<table>
<thead>
<tr>
<th>CO 14 Totals</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>COR #135.1 – Watson Electric</td>
<td>($432,000.00)</td>
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<tr>
<td>COR # 135.2 – Precision Walls</td>
<td>($173,500.00)</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>($605,500.00)</strong></td>
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<tr>
<td>Contractor Contingency Allowance</td>
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<tr>
<td>Owner Sitework Allowance</td>
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<td>Moisture Barrier Allowance</td>
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<td>Owner Allowance</td>
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<td><strong>Subtotal for Subcontractor GC Claims (line 4)</strong></td>
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<td>Contractor Contingency Remaining</td>
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<tr>
<td>Owner Sitework Allowance Remaining</td>
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<tr>
<td>Moisture Barrier Remaining</td>
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<tr>
<td>Owner Allowance Remaining</td>
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<td><strong>CO 14 Change Amount</strong></td>
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<tr>
<td><strong>Contract GMP Amount (Unchanged)</strong></td>
<td><strong>$59,829,652.00</strong></td>
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</table>
Change Order Proposal Review Form

To: Edmund V. Most  Project: CP 1425 International African American Museum
From: Mike Risteski  Project No.: CP 1425
Date: 2/15/2022  Proposal No.: Change Order Request No. 135.1 R5
Contractor: Turner Construction Company  Contract: Construction

Description of work to be performed: Subs' Claims - Watson Electric
A - Customer Requested Change
This change is associated with the subcontractor fees associated with the time extension of the original contract
B - Code/Regulatory Agency Required Change
This change is associated with COR 75R3 and COR 122 which extend the contract substantial completion
to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable.
The settlement of the Watson Electric to the project has drastically changed over the negotiation time period.
Initial starting pricing for the Watson Claim was set at approximately 1,600,000. This number was lowered trough
to Watson Electric's claim.
F - Unforeseen Conditions
G - Time Related Change
This change is associated with COR 75R3 and COR 122 which extend the contract substantial completion.
This extension covers 87 compensable days and 55 non-compensable.
The settlement of the Watson Electric to the project has drastically changed over the negotiation time period.

Justification: G - Time Related Change

Attachments:
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)
Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $432,000.00  Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:

Decision needed by: February 15, 2022

(Note (YES) (Circle One)

(Note (YES) (Circle One)

(Note (YES) (Circle One)

(Note (YES) (Circle One)

(Note (YES) (Circle One)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

This COR covers General condition claims by the subcontractors related to the roof project delay previously submitted in COR 75. Per direction the cost was removed from COR and reevaluated. Please see revised costs from Subcontractors.


Pricing: [ ] ROM Estimate of GR’s & Insurances [ ] ROM Estimate for Entire PCO [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [ ] Evaluating Potential for Time Impact [ ] Evaluated - NO TIME IMPACT [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

[ ] Work has been Completed [ ] Work Has Commenced &/or is Ongoing [ ] Work Authorization is Requested By:

Submitted By: Contractor: **TURNER BROWNSTONE**

02/14/2022

$849,576

$432,000.00

Reviewed By: Program Manager: **CUMMING**


 Approved By: Owner: **City of Charleston**


$849,576

$432,000.00

Authorized Action:

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price
# General Summary of the Estimate

**International African American Museum**

## General Requirements (GR’s) & General Conditions (GC’s)

- **A1** General Requirements (GR’s) & General Conditions (GC’s)
  - **A2** General Requirements (GR’s) & General Conditions (GC’s)
  - **A3** General Requirements (GR’s) & General Conditions (GC’s)

## Trade Directs

- **A4** Trade Directs
  - **A5** Self Performed Labor
  - **A6** Material(s) & Equipment
  - **A7** **SUBTOTAL TRADE DIRECTS** $849,576.00

## Estimate Total

- **A8** CCIP @ 2.50%
  - **A9** Subguard @ 0.012
  - **A10** Builders Risk @ 0.84%
  - **A11** Performance and Payment Bond @ 0.09732
  - **A12** Procore @ 0.04500%
  - **A13** Overhead and Profit @ 3.25%
  - **A14** **SUBTOTAL** $849,576
  - **A15** **ESTIMATE TOTAL** $849,576

- **COR No.: 135R5**
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC’s)

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<tr>
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<th>RATE</th>
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<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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### TRADE DIRECTS

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<td>Additional Scope of Work</td>
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<td>1 Watson - General Conditions</td>
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<td>LS</td>
<td>1</td>
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<td></td>
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<tr>
<td>2 GR Hipp - Plumbing - General Conditions</td>
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<td>LS</td>
<td>1</td>
<td>$67,000.00</td>
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<tr>
<td>3 SMS - HVAC - General Conditions</td>
<td>$64,126.00</td>
<td>LS</td>
<td>1</td>
<td>$64,126.00</td>
<td></td>
<td></td>
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<tr>
<td>4 P- Walls - Drywall - General Conditions</td>
<td>$260,000.00</td>
<td>LS</td>
<td>1</td>
<td>$260,000.00</td>
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<tr>
<td>5 Nations - Roofing - General Conditions</td>
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<td>LS</td>
<td>1</td>
<td>$26,450.00</td>
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</table>

See Additional information and summary attached.

$ 432,000.00

DIRECT WORK SUBTOTAL

$ 849,576

DIRECT WORK SUBTOTAL
October 27, 2021

Turner Construction Co
5955 Carnegie Blvd
Charlotte, NC 28209

Attn: Mark Dent
Re: International African American Museum

Mark,

I am reaching out once again for help regarding the museum project. I appreciate the meeting with the City of Charleston and their representatives on October 12, 2021 to discuss the Extended General Conditions. We have not heard or had any requests for any additional information, so I assume everyone acknowledges that we are due monies for the delay to this project at no fault of Watson Electrical Construction Co, LLC.

You have always told me that you wanted to settle this before the project is completed. Now is the time to get this issue resolved. This is a one-time offer to settle. Watson Electrical Construction Co, LLC is willing to settle the current (attached) claim totaling $753,936 for $500,000. Absent receipt of a positive response to our change order request/claim by 3:00PM Monday November 1, 2021, we are going to begin pursuit of all claims we have submitted and are going to file a lien and/or payment bond claim. As you know, we have previously given many notices of claim to you, almost all of which, your team has ignored. This is not going to go away.

To be clear. If we do not receive a change order for our extended general conditions for $500,000.00 by November 1, 2021, we are going to have our attorney start pursuing of all our claims. We have offered to resolve all claims in exchange for payment of the general conditions amount we requested, and that offer will be withdrawn at 3:00 PM, November 1, 2021, if TCCO does not accept the offer, send us an executed change order for such, and make payment.

Respectfully,

Bill Brittelli
Vice President
Electrical Commercial Services
Watson Electrical Construction Co LLC.
C: 843-200-9510
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Actuals Feb 12-Sep 12</th>
<th>Projected Sept 13 - Nov 12 2021</th>
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<td>680</td>
<td>Project Managers &amp; Supervisors +DLC</td>
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<td>691</td>
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<td>$-</td>
<td>$13,000</td>
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<tr>
<td>720</td>
<td>Per Diem for Charlotte Crew to manage CHS project since below EE’s could not move on</td>
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<td>$23,500</td>
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<td></td>
<td>Parking</td>
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<td>$950</td>
<td>$1,900</td>
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<td></td>
<td>Storage for materials not able to be onsite</td>
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<td>$39,785</td>
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**Subtotal of Overhead** $447,611

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<tr>
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<th>Wages</th>
<th>DLC 42%</th>
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<td>Martin Poston</td>
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**Subtotal of Supervision** $259,213

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<tr>
<td>George Washington - September - November</td>
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<td>Mike Pitiak - September - November</td>
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<td>Martin Poston - September - November</td>
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<td>Chris Loew - September - November</td>
<td>360</td>
<td>$15,576</td>
<td>$6,542</td>
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</table>

**Subtotal of Projected Supervision** $47,112

**Grand Total** $753,936
### Change Order Proposal Review Form

**To:** Edmund V. Most  
**Project:** CP 1425 International African American Museum  
**From:** Mike Risteski  
**Project No.:** CP 1425  
**Date:** 2/15/2022  
**Contractor:** Turner Construction Company  
**Proposal No.:** Change Order Request No. 135.2 R5

### Description of work to be performed:

<table>
<thead>
<tr>
<th>Subs' Claims - Precision Walls Part1</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Customer Requested Change</td>
</tr>
<tr>
<td>B - Code/Regulatory Agency Required Change</td>
</tr>
<tr>
<td>C - Errors and Omissions</td>
</tr>
<tr>
<td>D - Replacing Unsuitable Soils</td>
</tr>
<tr>
<td>E - Soils Related Change Other</td>
</tr>
<tr>
<td>F - Unforeseen Conditions</td>
</tr>
<tr>
<td>G - Time Related Change</td>
</tr>
<tr>
<td>H - Liquidated Damages</td>
</tr>
<tr>
<td>I - Value Engineering Change</td>
</tr>
<tr>
<td>J - Exercising Pre-Priced Option (Allowance)</td>
</tr>
</tbody>
</table>

- **This change is associated with the subcontractor fees associated with the time extension of the original contract.**
- **This change is associated with COR 75R3 and COR 122 which extend the contract substantial completion to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable.**
- **This proposed change order is covering the general conditions cost that Precision Walls has incurred past original contract substantial completion. The second part of the Precision Walls claim is regarding the delay caused by the issue with the roofing delay. This COR will be numbered as 135.2A and will be in the amount of 86,500.00.**

### Precision Walls 135.2

| Description | Cost  
|-------------|------  
| Precision Walls 135.2 | $173,500.00  
| Precision Walls 135.2A | $86,500.00  
| Total for Precision Walls | $260,000.00

### Justification:

- **G - Time Related Change**

### Attachments:

- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)
- Cost Estimate (Expected to Exceed $10,000)
- Change Proposal Request from CMR with Detailed Backup

### Proposal Cost (not to exceed):

| $173,500.00 | Owner Contingency Allow. Bal.

### Time Extension Requested:

| Time Extension Recommended:

### Special Circumstances:

### Consequence of Rejection:

### Comments by Supervisor:

### Approved:

- (NO) (YES)
- (Circle One)
- Rick Holt, Cumming Corp.

### Decision needed by:

| February 15, 2022

### (NO) (YES)

- (Circle One)
- Edmund V. Most, City of Charleston

- (NO) (YES)
- (Circle One)
- Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

This COR covers General condition claims by the subcontractors related to the roof project delay previously submitted in COR 75. Per direction the cost was removed from COR and reevaluated. Please see revised costs from Subcontractors.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis Project Engineer 02/14/2022

Contractor: TURNER BROWNSTONE  

Authorized Action: Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Requested Action:  

$849,576

$173,500.00

Amount Requested

Amount Approved

Reviewed By: Program Manager: CUMMING

Authorized Action: Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Approved By: Owner: City of Charleston  $173,500.00

$849,576

Amount Approved
### International African American Museum

**General Summary of the Estimate**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
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<tr>
<td>A3</td>
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<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
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<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.56%</td>
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<td>A9</td>
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<td>@ 0.012</td>
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<tr>
<td>A10</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>=</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
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</tr>
<tr>
<td>A12</td>
<td>Procore</td>
<td>@ 0.04500%</td>
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<tr>
<td>A13</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
<td>=</td>
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<tr>
<td>A14</td>
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<tr>
<td>A17</td>
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**SUBTOTAL** $849,576

**ESTIMATE TOTAL** $849,576
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

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<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
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### TRADE DIRECTS

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<th>DESCRIPTION</th>
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<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
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<tbody>
<tr>
<td>1 Watson - General Conditions</td>
<td>$432,000.00</td>
<td>LS</td>
<td>1</td>
<td>$432,000.00</td>
<td></td>
</tr>
<tr>
<td>2 CR Hipp - Plumbing - General Conditions</td>
<td>$67,000.00</td>
<td>LS</td>
<td>1</td>
<td>$67,000.00</td>
<td></td>
</tr>
<tr>
<td>3 SMS - HVAC - General Conditions</td>
<td>$64,126.00</td>
<td>LS</td>
<td>1</td>
<td>$64,126.00</td>
<td></td>
</tr>
<tr>
<td>4 P- Walls - Drywall - General Conditions</td>
<td>$260,000.00</td>
<td>LS</td>
<td>1</td>
<td>$260,000.00</td>
<td></td>
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<tr>
<td>5 Nations - Roofing - General Conditions</td>
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<td>LS</td>
<td>1</td>
<td>$26,450.00</td>
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</tr>
</tbody>
</table>

See Additional information and summary attached.

135.2 Precision Walls 173,500.00 processed in CO 14
135.2A Precision Walls 86,500.00 processed in CO 15
Total Sum 260,000.00
THE CONTRACT IS CHANGED AS FOLLOWS:
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

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PCO No. 135.2 - Precision Walls claims for extension of their general conditions: $173,500.00

TOTAL AMOUNT CHARGED TO THE OWNER'S CONTINGENCY ALLOWANCE is $349,231.00 resulting in no cost change. The Owner's Contingency Allowance balance is now $220,500.00

RECAP OF OWNER'S ALLOWANCE BALANCES AFTER ISSUANCE OF CO NO. 014:
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Owner's General Contingency Allowance: $220,500.00
Owner's Moisture Barrier at Museum Level Allowance: $65,167.00
TOTAL: $640,311.00

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Net change by previously authorized Change Orders $1,372,329.00
The Guaranteed Maximum Price prior to this Change Order was $59,829,652.00
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Moody Noland, Inc.  
ARCHITECT (Firm name)  
SIGNATURE  
Robert Larrimer, AIA  
PRINTED NAME AND TITLE  

Cumming Management Group, Inc.  
CONSTRUCTION MANAGER (Firm name)  
SIGNATURE  
Rick W. Holt, Vice President  
PRINTED NAME AND TITLE  

<table>
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<th>TURNER CONSTRUCTION COMPANY</th>
<th>DATE:</th>
<th>CITY OF CHARLESTON</th>
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<tbody>
<tr>
<td></td>
<td>Mark Dent, Vice President and General Manager</td>
<td></td>
<td>Mayor John J. Tecklenburg, Mayor - City of Charleston</td>
</tr>
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AIA Document G731™ - 2019 (formerly G701™CMa - 1992). Copyright © 1992 and 2019 by The American Institute of Architects. All rights reserved. The "American Institute of Architects", "AIA", the AIA Logo, and "AIA Contract Documents" are registered trademarks and may not be used without permission. This document was produced by AIA software at 08:06:14 ET on 02/23/2022 under Order No.2114257715 which expires on 12/03/2022, is not for resale, is licensed for one-time use only, and may only be used in accordance with the AIA Contract Documents® Terms of Service. To report copyright violations, e-mail copyright@aia.org. User Notes:
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<thead>
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### Change Order, Construction Manager as Adviser Edition

**PROJECT:** (name and address)  
International African American Museum  
14 Wharfside Street  
City of Charleston  
823 Meeting Street  
Charleston, SC 29403  
**OWNER:** (name and address)  
City of Charleston  
823 Meeting Street  
Charleston, SC 29403  
**CONTRACTOR:** (name and address)  
Turner Construction Company  
4601 Park Road, Suite 601  
Charlotte, NC 28209

**CONTRACT INFORMATION:**  
Contract For: General Construction  
Date: July 11, 2019  
**ARCHITECT:** (name and address)  
Moody Nolan, Inc.  
300 Spruce Street, Suite 300  
Columbus, OH 43215

**CHANGE ORDER INFORMATION:**  
Change Order Number: 014  
Date: February 18, 2022  
**CONSTRUCTION MANAGER:** (name and address)  
Cumming Management Group, Inc.  
3820 Faber Place Drive, Suite 600  
N. Charleston, SC 29405

**THE CONTRACT IS CHANGED AS FOLLOWS:**  
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

*Correction to Owner Contingency Allowance from CO No. 010 and 011. PCO No. 070 was noted on CO No. 010 as $12,307.00 on CO No. 010 but actually $12,037.00 for a difference of $<270.00>. PCO No. 081 was noted on CO No. 011 as $4,010.00 but was actually $4,015.00 for a difference of $5.00. Correction of these areas will make the Owner General Contingency Allowance: $569,731.00.*

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Moody Noland, Inc.  
ARCHITECT (Firm name) 

SIGNATURE 
Robert Larrimer, AIA  
PRINTED NAME AND TITLE 

DATE:  

Turner Construction Company  
CONTRACTOR (Firm name) 

SIGNATURE 
Mark Dent, Vice President and General Manager  
PRINTED NAME AND TITLE 

DATE: 

Cumming Management Group, Inc.  
CONSTRUCTION MANAGER (Firm name)  

SIGNATURE 
Rick W. Holt, Vice President  
PRINTED NAME AND TITLE 

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ARCHITECT (Firm name)

Robert Larrimer, AIA

PRINTED NAME AND TITLE

DATE:

Turner Construction Company

CONTRACTOR (Firm name)

Mark Dent, Vice President and General Manager

PRINTED NAME AND TITLE

DATE:

Cumming Management Group, Inc.

CONSTRUCTION MANAGER (Firm name)

Rick W. Holt, Vice President

PRINTED NAME AND TITLE

DATE:

City of Charleston

OWNER (Firm name)

Mayor John J. Tecklenburg, Mayor - City of Charleston

PRINTED NAME AND TITLE

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Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/15/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 135.1 R5  
Contract: Construction

Description of work to be performed: Subs' Claims - Watson Electric
This change is associated with the subcontractor fees associated with the time extension of the original contract to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable. The settlement of the Watson Electric to the project has drastically changed over the negotiation time period. Initial starting pricing for the Watson Claim was set at approximately $1,600,000. This number was lowered through negotiation from Turner to $753,936. At this time the Cumming team was engaged in the negotiations and agreed to a settlement of $432,000.00

Watson (Electric) - $432,000.00

Justification: G - Time Related Change

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $432,000.00  
Owner Contingency Allow. Bal.  
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 15, 2022

(By) Mike Risteski, Cumming Corp.

Approved:

(By) Rick Holt, Cumming Corp.

(By) Robert Faust, Cumming Corp.

(By) Edmund V. Most, City of Charleston

(By) Robert Lazzara

(By) Bernard Costantino, Moody Nolan
Date Submitted: February 14, 2022

To: Edmund Most
City of Charleston

Re: International African American Muesum

Subcontractor General Conditions Claim.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

This COR covers General condition claims by the subcontractors related to the roof project delay previously submitted in COR 75. Per direction the cost was removed from COR and reevaluated. Please see revised costs from Subcontractors.

Reason:
☐ Owner Directive
☐ Code / Regulatory
☐ Unforeseen Condition ☒ Design Issue
☐ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Pricing:
☐ ROM Estimate of GR's & Insurances
☐ ROM Estimate for Entire PCO
☐ Evaluating Potential for Time Impact
☐ Evaluated - NO TIME IMPACT
☐ Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)

Time Impact:
☐ Work has been Completed
☐ Work Has Commenced &/or is Ongoing

Submitted By:

Contractor: TURNER BROWNSTONE

02/14/2022

$849,576— Amount Requested

$ 432,000.00

Requested Action:
☐ Authorized to Proceed While Pricing
☐ Price Only
☐ Do Not Proceed or Price

Authorized Action:
☐ Authorized to Proceed While Pricing
☐ Price Only
☐ Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

$849,576— Amount Approved

$ 432,000.00
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<td>General Requirements (CR 5)</td>
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<tr>
<td>Materials &amp; Equipment</td>
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<tr>
<td>Self-Performed Labour</td>
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**Subtotal Trade Directs**: $3,766.00

**Estimate Total**: $8,499.576

**COR NO.: 1355**

**General Summary of the Estimate**

International African American Museum
**DESCRIPTION**

**DIVISIONS OF WORK**

<table>
<thead>
<tr>
<th>COR NO.</th>
<th>135R5</th>
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**GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)**

*Trade Directs*

**SUBTOTAL** $432,000.00

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See additional information and summary attached.

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<th>TRADE DIRECTS</th>
<th>COMMENTS</th>
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<tbody>
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<td></td>
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</tr>
</tbody>
</table>
October 27, 2021

Turner Construction Co
5955 Carnegie Blvd
Charlotte, NC 28209

Attn: Mark Dent
Re: International African American Museum

Mark,

I am reaching out once again for help regarding the museum project. I appreciate the meeting with the City of Charleston and their representatives on October 12, 2021 to discuss the Extended General Conditions. We have not heard or had any requests for any additional information, so I assume everyone acknowledges that we are due monies for the delay to this project at no fault of Watson Electrical Construction Co, LLC.

You have always told me that you wanted to settle this before the project is completed. Now is the time to get this issue resolved. This is a one-time offer to settle. Watson Electrical Construction Co, LLC is willing to settle the current (attached) claim totaling $753,936 for $500,000. Absent receipt of a positive response to our change order request/claim by 3:00PM Monday November 1, 2021, we are going to begin pursuit of all claims we have submitted and are going to file a lien and/or payment bond claim. As you know, we have previously given many notices of claim to you, almost all of which, your team has ignored. This is not going to go away.

To be clear. If we do not receive a change order for our extended general conditions for $500,000.00 by November 1, 2021, we are going to have our attorney start pursuing of all our claims. We have offered to resolve all claims in exchange for payment of the general conditions amount we requested, and that offer will be withdrawn at 3:00 PM, November 1, 2021, if TCCO does not accept the offer, send us an executed change order for such, and make payment.

Respectfully,

Bill Brittelli
Vice President
Electrical Commercial Services
Watson Electrical Construction Co LLC.
C: 843-200-9510
## Projected Production Support from Chinook

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<th>November</th>
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## Support of Overhead

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## Additional Information

- **Printing**
  - Total: $900

- **Other**
  - Total: $1,000

**Grand Total**: $7,980

**Notes**

- Project scope below is valid as of 11/21/21.
- Additional costs not included in the above figures.
Description of work to be performed:  
This change is associated with the subcontractor fees associated with the time extension of the original contract to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable. This proposed change order is covering the general conditions cost that Precision Walls has incurred past original contract substantial completion. The second part of the Precision Walls claim is regarding the delay caused by the issue with the roofing delay. This COR will be numbered as 135.2A and will be in the amount of $86,500.00.

Precision Walls 135.2: $173,500.00  
Precision Walls 135.2A: $86,500.00  
Total for Precision Walls: $260,000.00

Justification:  
G - Time Related Change

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $173,500.00  
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 15, 2022

Approved:

Mike Risteski, Cumming Corp.

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Cestante, Moody Nolan

Robert L. Newcomer
Date Submitted: February 14, 2022

To: Edmund Most
City of Charleston

Re: International African American Muesum

Subcontractor General Conditions Claim.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

This COR covers General condition claims by the subcontractors related to the roof project delay previously submitted in COR 75. Per direction the cost was removed from COR and reevaluated. Please see revised costs from Subcontractors.


Pricing: [ ] ROM Estimate of GR's & Insurances [ ] ROM Estimate for Entire PCO [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [ ] Evaluating Potential for Time Impact [ ] Evaluated - NO TIME IMPACT [ ] Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)

[ ] Work has been Completed [ ] Work Has Commenced &/or is Ongoing [ ] Work Authorization is Requested By:

Submitted By: [Signature]
Walter Lewis Project Engineer
Dated 02/14/2022

Contractor: TURNER BROWNSTONE

Requested Action:

Authorized to Proceed
While Pricing [ ] Price Only [ ] Do Not Proceed or Price

Authorized Action:

Authorized to Proceed
While Pricing [ ] Price Only [ ] Do Not Proceed or Price

$173,500.00

$849,576

$173,500.00

Reviewed By: Program Manager: CUMMING

/ / Dated

Approved By: Owner: City of Charleston

/ / Dated

$849,576

Amount Approved
### Trade Directs

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**Cor No.:** 13555

**Turner International African American Museum**
### Subcontractor Claims (Roof Delay)

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### COR 177.1 General Conditions Turner

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<td>Stair - Delete Non Structure</td>
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<td>Roof Parapet Expansion Joint Add</td>
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<td>Window Shade Addition/ Deletion</td>
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<td>RFI 450 Buffer Tank Steel Add</td>
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<td>Bulletin 27 - Added Roof Drains</td>
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<td>17, 17.1, 17.2, 17.3 Granite Wall</td>
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<td>COR 141 Barrier Wall Foundations</td>
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<td>COR 142 Shaft Wall Changes</td>
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<td>COR 144 Soil Compaction Plan (Hood Design Rec.)</td>
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<td>COR 146 Backflow Relocation per Design</td>
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<td>COR 147 A Palm Tree to 4” Oak</td>
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<td>73</td>
<td>COR 147 B Palm Tree to 6” Oak</td>
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<td>COR 148 Boiler Secondary Feed</td>
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<td>COR 149 3rd Floor Pivots</td>
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<td>COR 156 Irrigation Redesign</td>
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<td>COR 157 Waterproofing &amp; Brick Stucco Changes</td>
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<td>COR 158 None</td>
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<td>COR 159 None</td>
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<td>COR 160 Feeds for the Dock Power</td>
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<td>COR 161 Generator Test Bank Feeds &amp; Breaker</td>
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<td>COR 162 Irrigation Water Tap</td>
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<td>COR 167 CT for Dock Power</td>
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<td>COR 168 Power for Smoke Dampers</td>
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<td>COR 173 Planting Changes per City Request</td>
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<td>COR 174 Height Change to Serpentine Wall</td>
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<td>Atrium Lower Stair Rail</td>
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<td>Curb at Fire Lane</td>
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<td>COR 181 - Framing/drywall/Paint door hardware</td>
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<td>COR 179 Removal of Unsuitable Soils</td>
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<td>Subtotal Outstanding COR's</td>
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<td>Cost to be funded (line 114)</td>
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<td><strong>New GMP Amount (CO 15)</strong></td>
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Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/15/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 135.2A R5
Contract: Construction

Description of work to be performed:

A - Customer Requested Change
This change is associated with the subcontractor fees associated with the time extension of the original contract
to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable.

B - Code/Regulatory Agency Required Change
This proposed change order is covering the general conditions cost that Precision Walls has incurred past original
contract substantial completion. The second part of the Precision Walls claim is regarding the delay caused by the
issue with the roofing delay. This COR will be numbered as 135.2A and will be in the amount of 86,500.00.

C - Errors and Omissions

D - Replacing Unsuitable Soils

E - Soils Related Change Other

F - Unforeseen Conditions

G - Time Related Change

H - Liquidated Damages

I - Value Engineering Change

J - Exercising Pre-Priced Option (Allowance)

K - Accounting Error

Total for Precision Walls $260,000.00

Precision Walls 135.2 $173,500.00

Precision Walls 135.2A $86,500.00 This COR

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)
Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $86,500.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 15, 2022

Approved: Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

This COR covers General condition claims by the subcontractors related to the roof project delay previously submitted in COR 75. Per direction the cost was removed from COR and reevaluated. Please see revised costs from Subcontractors.

Pricing:
- Work has been Completed
- Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Reason:
- Owner Directive
- Code / Regulatory
- Unforeseen Condition
- Design Issue

Time Impact:
- Evaluating Potential for Time Impact
- Evaluating - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Submitted By: Contractor: **TURNER BROWNSTONE**
Walter Lewis  Project Engineer
02/14/2022
Amount Requested
$849,576
$86,500.00

Reviewed By: Program Manager: **CUMMING**
Dated

Approved By: Owner: **City of Charleston**
Edmund Most
Dated
Amount Approved
$849,576
$86,500.00
## International African American Museum
### General Summary of the Estimate

**COR No.:** 135R5

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<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>SELF PERFORMED LABOR</td>
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<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
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**SUBTOTAL TRADE DIRECTS** $849,576

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<td>A9</td>
<td>Subguard</td>
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<td>Builders Risk</td>
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<td>A11</td>
<td>Procore</td>
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<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
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**ESTIMATE TOTAL** $849,576
# International African American Museum

**DETAIL ESTIMATE OF DIRECTS**

**COR No.: 135R5**

### General Requirements (GR's) & General Conditions (GC's)

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### Trade Directs

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See Additional information and summary attached.

135.2 Precision Walls 173,500.00
135.2A Precision Walls 86,500.00
Total Sum 260,000.00

**DIRECT WORK SUBTOTAL** $849,576

$86,500.00
Dear Rick,

Due to the extended duration of the International African American Museum Project, Precision Walls, Inc. is asking for additional compensation of $86,500.00 for general conditions above what the project was bid for. Per the original schedule we should have been off the job site at the end of November 2020, and we are currently still on site as of 8/18/21.

I have attached a graph showing when the original schedule was to be complete and where this extension of time has occurred. I have listed the hours of each person that is defined as overhead (general conditions) per the months that we are asking for compensation.

This extension of time has been caused by numerous items including multiple reworking of our finished work due to changes, trades that have not completed work ahead of our specified start time and added additional work due to architectural changes. To keep the project moving forward we have worked many weekends of overtime doing base contract work and have not asked for any additional compensation.

To determine this compensation, we have assigned our hourly rates which was included in our proposal for the following, general superintendent, foreman, safety manager and project manager. This extended condition compensation would come out to $249,600.00, but to help the project and the City of Charleston, Precision Walls, Inc. would only be asking for $86,500.00 in additional compensation for the extension of general condition costs.

We have been extremely honored to work on such an important project for the City of Charleston and feel we have been a valuable part of the first 19 month of project as well as the extended 9 months of this amazing project.

Sincerely,

Joel Ofsthun
Precision Walls Estimator/PM
To: Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
Contact: Walt Lewis  

Project: International African American Museum  
14 Wharfside Street  
Charleston, SC  

Description: 3 month project extension. Added general conditions-site supervision and material handling.

<table>
<thead>
<tr>
<th>Labor</th>
<th># of Men</th>
<th>Qty Hrs</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervision</td>
<td>2</td>
<td>448.00 Hrs</td>
<td>896.00</td>
<td>75.00</td>
<td>$67,200.00</td>
</tr>
<tr>
<td>Safety Supervisor-DW</td>
<td>1</td>
<td>220.00 Hrs</td>
<td>220.00</td>
<td>55.00</td>
<td>$12,100.00</td>
</tr>
<tr>
<td>Material Handling Field-DW</td>
<td>1</td>
<td>160.00 Hrs</td>
<td>160.00</td>
<td>45.00</td>
<td>$7,200.00</td>
</tr>
<tr>
<td><strong>Total Labor</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>$86,500.00</strong></td>
</tr>
</tbody>
</table>

Subtotal for Detail $86,500.00

Labor Total: $86,500.00

Sub Total: $86,500.00

Mark Up: $0.00 .00%

Total: $86,500.00
### Exterior

**Exterior Framing & Sheathing**
- **Level 1**
  - Start
  - End

**Exterior Framing & Sheathing**
- **Level 2**
  - Start
  - End

**Exterior Framing & Sheathing**
- **Level 3**
  - Start
  - End

### Interior & Vertical

#### Level 03-Office
- **Layout/Top Track**
  - Start
  - End
- **Frame Walls & Ceilings**
  - Start
  - End
- **Hang/Tape/Finish Walls & Ceilings**
  - Start
  - End

#### Level 02-Museum
- **Layout/Top Track**
  - Start
  - End
- **Frame Walls & Ceilings**
  - Start
  - End
- **Hang/Tape/Finish Walls & Ceilings**
  - Start
  - End

#### Level 02M-Office
- **Layout/Top Track**
  - Start
  - End
- **Frame Walls & Ceilings**
  - Start
  - End
- **Hang/Tape/Finish Walls & Ceilings**
  - Start
  - End

#### Level 01-Ground
- **Layout/Top Track**
  - Start
  - End
- **Frame Walls & Ceilings**
  - Start
  - End
- **Hang/Tape/Finish Walls & Ceilings**
  - Start
  - End

#### Level 01M-Ground
- **Layout/Top Track**
  - Start
  - End
- **Frame Walls & Ceilings**
  - Start
  - End
- **Hang/Tape/Finish Walls & Ceilings**
  - Start
  - End

### Extended General Conditions

#### Extra Work Hours

<table>
<thead>
<tr>
<th>Role</th>
<th>Hours per Week</th>
<th>Pay Rate</th>
<th>Total Pay</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Superintendent</td>
<td>2 days a week</td>
<td>$75.00 per hour</td>
<td>$48,000</td>
</tr>
<tr>
<td>Foreman</td>
<td>5 days a week</td>
<td>$55.00 per hour</td>
<td>$88,000</td>
</tr>
<tr>
<td>Safety</td>
<td>3 days a week</td>
<td>$55.00 per hour</td>
<td>$52,800</td>
</tr>
<tr>
<td>Project Manager</td>
<td>2 days a week</td>
<td>$95.00 per hour</td>
<td>$60,000</td>
</tr>
</tbody>
</table>

Total: $249,600
**Change Order Proposal Review Form**

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 2/24/2022  
**Contractor:** Turner Construction Company  

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 135.3 R5  
**Contract:** Construction (CMR)(ARCHITECT)(ENGINEER)(OTHER)

**Description of work to be performed:**  
**Subcontractor Claims (CR Hipp, SMS, Nations Roofing):**

<table>
<thead>
<tr>
<th>Subcontractor</th>
<th>Description of work to be performed</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR Hipp - Plumbing</td>
<td>This change is associated with the subcontractor fees associated with the time extension of the original contract to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable.</td>
<td>$67,000.00</td>
</tr>
<tr>
<td>SMS (HVAC)</td>
<td>This change is associated with COR 75R3 and COR 122 which extend the contract substantial completion to August 31, 2021.</td>
<td>$64,126.00</td>
</tr>
<tr>
<td>Nations - Roofing</td>
<td><strong>G - Time Related Change</strong></td>
<td>$26,450.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$157,576.00</strong></td>
</tr>
</tbody>
</table>

**Justification:** **G - Time Related Change**

**Attachments:**
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)  
- Change Proposal Request from CMR with Detailed Backup

**Proposal Cost (not to exceed):** $157,576.00  
**Owner Contingency Allow. Bal.:**

**Time Extension Requested:**

**Time Extension Recommended:**

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

**Approved:**
- Rich Holt, Cumming Corp.  
- Robert Faust, Cumming Corp.  
- Edmund V. Most, City of Charleston  
- Bernard Costantino, Moody Nolan

**Decision needed by:** July 12, 2021  
**(NO) (YES)**  
(Circle One)  
**Mike Risteski, Cumming Corp.**
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

This COR covers General condition claims by the subcontractors related to the roof project delay previously submitted in COR 75. Per direction the cost was removed from COR and reevaluated. Please see revised costs from Subcontractors.


Pricing: [ ] ROM Estimate of GR’s & Insurances  [ ] ROM Estimate for Entire PCO  [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [ ] Evaluating Potential for Time Impact  [ ] Evaluated - NO TIME IMPACT  [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

[ ] Work has been Completed  [ ] Work Has Commenced &/or is Ongoing  [ ] Work Authorization is Requested By:

Submitted By: [ ] Contractor: TURNER BROWNSTONE  Date Submitted: February 14, 2022

Contractor: TURNER BROWNSTONE  Amount Requested: $849,576--

Amount Approved: 157,576.00

Reviewed By: Program Manager: CUMMING  Dated: 02/14/2022

Authorized Action: [ ] Authorized to Proceed While Pricing  [ ] Price Only  [ ] Do Not Proceed or Price

Authorized Action: [ ] Authorized to Proceed While Pricing  [ ] Price Only  [ ] Do Not Proceed or Price

Approved By: Owner: City of Charleston  Dated: February 14, 2022

Amount Approved: 157,576.00
### International African American Muesum

General Summary of the Estimate

**COR No.: 135R5**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR $0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT $0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$849,576.00</td>
</tr>
<tr>
<td>A4</td>
<td></td>
<td>SUBTOTAL TRADE DIRECTS $849,576</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>SUBTOTAL</th>
<th>$849,576</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCIP</td>
<td>@ 2.50%</td>
<td>= $0.00</td>
</tr>
<tr>
<td>Subguard</td>
<td>@ 0.012</td>
<td>= $0.00</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>= $0.00</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
<td>= $0.00</td>
</tr>
<tr>
<td>Procore</td>
<td>@ 0.0450%</td>
<td>= $0.00</td>
</tr>
<tr>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
<td>= $0.00</td>
</tr>
</tbody>
</table>

**ESTIMATE TOTAL** $849,576
### TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$432,000.00</td>
<td>1 LS</td>
<td>$432,000.00</td>
<td></td>
</tr>
<tr>
<td>1 Watson - General Conditions</td>
<td>$67,000.00</td>
<td>1 LS</td>
<td>$67,000.00</td>
<td></td>
</tr>
<tr>
<td>2 CR Hipp - Plumbing - General Conditions</td>
<td>$64,126.00</td>
<td>1 LS</td>
<td>$64,126.00</td>
<td></td>
</tr>
<tr>
<td>3 SMS - HVAC - General Conditions</td>
<td>$260,000.00</td>
<td>1 LS</td>
<td>$260,000.00</td>
<td></td>
</tr>
<tr>
<td>4 P-Walls - Drywall - General Conditions</td>
<td>$26,450.00</td>
<td>1 LS</td>
<td>$26,450.00</td>
<td></td>
</tr>
</tbody>
</table>

See Additional information and summary attached.
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Proposal No.: Change Order Request No. 177.1

Description of work to be performed:

<table>
<thead>
<tr>
<th>General Conditions for Turner Construction</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Customer Requested Change</td>
<td></td>
</tr>
<tr>
<td>B - Code/Regulatory Agency Required Change</td>
<td></td>
</tr>
<tr>
<td>C - Errors and Omissions</td>
<td></td>
</tr>
<tr>
<td>D - Replacing Unsuitable Soils</td>
<td></td>
</tr>
<tr>
<td>E - Soils Related Change Other</td>
<td></td>
</tr>
<tr>
<td>F - Unforeseen Conditions</td>
<td></td>
</tr>
<tr>
<td>G - Time Related Change</td>
<td></td>
</tr>
<tr>
<td>H - Liquidated Damages</td>
<td></td>
</tr>
<tr>
<td>I - Value Engineering Change</td>
<td></td>
</tr>
<tr>
<td>J - Exercising Pre-Priced Option (Allowance)</td>
<td></td>
</tr>
<tr>
<td>K - Accounting Error</td>
<td></td>
</tr>
<tr>
<td>(Indicate Reason for Change Proposal)</td>
<td></td>
</tr>
</tbody>
</table>

Turner General Condition          $ 642,850.00
Turner General Conditions Day 2    $ 174,150.00

**Subtotal**                     $ 817,000.00

City of Charleston Back Charges & Credits $ (127,293.66)

**Total**                        $ 689,706.34

Justification: **G - Time Related Change**

Attachments: J&A from Project Manager

Cost Estimate (Expected to Exceed $10,000)

Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): **$689,706.34** Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved: Rick Holt, Cumming Corp.

Decision needed by: February 24, 2022

(YES) (NO) (Circle One) Mike Risteski, Cumming Corp.

(YES) (NO) (Circle One) Edmund V. Most, City of Charleston

(YES) (NO) (Circle One) Bernard Costantino, Moody Nolan
Date Submitted: **February 15, 2022**

To: Edmund Most  
*City of Charleston*

Re: **International African American Muesum**

General Conditions and Builders Risk Costs

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &amp;/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner Directive</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROM Estimate of GR’s &amp; Insurances</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluating Potential for Time Impact</td>
</tr>
<tr>
<td>Work has been Completed</td>
</tr>
</tbody>
</table>

Submitted By:  
Contractor: **TURNER BROWNSTONE**  
02/15/2022  
$934,719  
$689,706.34

Reviewed By:  
Program Manager: **CUMMING**  
Dated / /  

Approved By:  
Owner: **City of Charleston**  
Dated / /  
$934,719  
$689,706.34
# International African American Muesum

## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) SELF PERFORMED LABOR</td>
<td>$0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) MATERIAL(S) &amp; EQUIPMENT</td>
<td>$0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$934,719.00</td>
</tr>
<tr>
<td>A4</td>
<td><strong>SUBTOTAL TRADE DIRECTS</strong></td>
<td>$934,719</td>
</tr>
</tbody>
</table>

## Costs

<table>
<thead>
<tr>
<th>Item</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>A8</td>
<td>CCIP @ 2.50%</td>
<td>$0.00</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard @ 0.012</td>
<td>$0.00</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk @ 0.84%</td>
<td>$0.00</td>
</tr>
<tr>
<td></td>
<td>Performance and Payment Bond 0.00732</td>
<td>$0.00</td>
</tr>
<tr>
<td>A11</td>
<td>Procore @ 0.04500%</td>
<td>$0.00</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit @ 3.25%</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**ESTIMATE TOTAL** $934,719
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$793,313.00</td>
<td>LS</td>
<td>1</td>
<td>$793,313.00</td>
<td></td>
</tr>
<tr>
<td>Additional BR Policy for Job Coverage</td>
<td>$141,406.00</td>
<td>LS</td>
<td>1</td>
<td>$141,406.00</td>
<td></td>
</tr>
</tbody>
</table>

Turner's Daily agreed upon Daily rate for the project 8,667.00
The COR is a Negotiated rate less than the approved rate.

Builders Risk will be processed as COR 177.2
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 134 R1  
Contract: Construction

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>Builders Risk Insurance</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Customer Requested Change</td>
<td>B - Code/Regulatory Agency Required Change</td>
</tr>
<tr>
<td>C - Errors and Omissions</td>
<td>D - Replacing Unsuitable Soils</td>
</tr>
<tr>
<td>E - Soils Related Change Other</td>
<td>F - Unforeseen Conditions</td>
</tr>
<tr>
<td>G - Time Related Change</td>
<td>H - Liquidated Damages</td>
</tr>
<tr>
<td>I - Value Engineering Change</td>
<td>J - Exercising Pre-Priced Option (Allowance)</td>
</tr>
<tr>
<td>K - Accounting Error</td>
<td>(Indicate Reason for Change Proposal)</td>
</tr>
</tbody>
</table>

Justification: G - Time Related Change

Attachments: 
- JBA from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000): X
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $128,949.00  
Owner Contingency Allow. Bal.: 
Time Extension Requested: 

Time Extension Recommended: 

Special Circumstances: 

Consequence of Rejection: 

Comments by Supervisor: 

Approved:

Decision needed by: September 30, 2021

(Circle One) (NO) (YES)  
Mike Risteski, Cumming Corp.

(Circle One) (NO) (YES)  
Rick Holt, Cumming Corp.

(Circle One) (NO) (YES)  
Robert Faust, Cumming Corp.

(Circle One) (NO) (YES)  
Edmund V. Most, City of Charleston

(Circle One) (NO) (YES)  
Bernard Costantino, Mayor, City of Charleston

(Circle One) (NO) (YES)  
Bernard Costantino, Mayor, City of Charleston

(Circle One) (NO) (YES)  
Bernard Costantino, Mayor, City of Charleston

(Circle One) (NO) (YES)  
Bernard Costantino, Mayor, City of Charleston

(Circle One) (NO) (YES)  
Bernard Costantino, Mayor, City of Charleston
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
To Extend Builders Risk Policy from 4/15 to 8/31 per the new Contract Substantial completion date.

**Reason:**
- [X] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] Work Authorization is Requested By:

**Submitted By:**
Walter Lewis
Project Engineer
June 24, 2021

**Contractor:**
TURNER BROWNSTONE

**Amount Requested:**
$128,949

**Reviewed By:**
Program Manager:
CUMMING

**Authorized Action:**
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

**Approved By:**
Owner:
City of Charleston

**Amount Approved:**
$128,949
## International African American Muesum

### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) SELF PERFORMED LABOR</td>
<td>$0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) MATERIAL(S) &amp; EQUIPMENT</td>
<td>$0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$120,954.00</td>
</tr>
<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
<td>$120,954</td>
</tr>
</tbody>
</table>

### CCIP @ 2.50% = $3,023.85

### Subguard @ 0.012 = $0.00

### Builders Risk @ 0.84% = $0.00

### Performance and Payment Bond 0.00732 = $885.38

### Procore @ 0.04500% = $54.43

### Overhead and Profit @ 3.25% = $4,031.05

### ESTIMATE TOTAL $128,949
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Cost to Extend BR Policy</td>
</tr>
<tr>
<td>2 Coverage from 3/31/2021 - 7/31/2021</td>
</tr>
<tr>
<td>3 Coverage from 8/1/2021 - 8/31/2021</td>
</tr>
<tr>
<td>5 Previous Captured Dollars on Volume on Previous Change Orders</td>
</tr>
</tbody>
</table>

If IAAM needs Turner to extend Coverage below are the rates for the times listed below:

- Estimated Additional Premium to extend to 09/15/2021 (from 08/31/2021) - $18,037
- Estimated Additional Premium to extend to 10/01/2021 (from 08/31/2021) - $37,276

$120,954

DIRECT WORK SUBTOTAL $120,954
Richard F. Davis | Project Executive
Turner Construction Company
404-504-3700 | mobile 404-456-3101

From: Prescott, Blakely C - (CAR) <bprescott@tcco.com>
Sent: Wednesday, February 10, 2021 3:23 PM
To: Davis, Richard F - (ATL) <rfdavis@tcco.com>
Subject: RE: BRI QUOTE Request/190795 International African American Museum

Rick,
Please see the quote below for a BRI extension through 07/31/2021 on IAAM (190795). The below is still based on the current policy volume of $58,457,323.

The main difference in my quote vs the TSIB quote is due to the flood rate. I confirmed with TSIB that the flood rate is .06, not .07 as indicated on the original cert. The total flood premium with the extension is $70,149 and we’ve already paid $68,163 of that value per the original BRI policy.

Please let me know if you have any questions or need any additional information.

Blakely Prescott | Insurance Manager
Turner Construction Company
mobile 980.395.3355 | bprescott@tcco.com

From: brcertrequest <brcertrequest@tcco.com>
Sent: Wednesday, February 10, 2021 1:13 PM
To: Prescott, Blakely C - (CAR) <bprescott@tcco.com>
Subject: RE: Urgent Request! RE: BRI QUOTE Request/190795 International African American Museum

Hi Blakely,

Additional Premium is as follows:

<table>
<thead>
<tr>
<th>Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>$13,658</td>
</tr>
<tr>
<td>Wind</td>
<td>$44,466</td>
</tr>
<tr>
<td>Flood</td>
<td>$1,986</td>
</tr>
<tr>
<td>EQ</td>
<td>$23,447</td>
</tr>
<tr>
<td>Terrorism</td>
<td>$977</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$84,534</strong></td>
</tr>
</tbody>
</table>

---

Lewis, Walter - (CAR)

From: Davis, Richard F - (ATL)
Sent: Wednesday, February 10, 2021 3:24 PM
To: Lewis, Walter - (CAR)
Subject: FW: BRI QUOTE Request/190795 International African American Museum
Attachments:
190795-International African American Museum.pdf; RE: Urgent Request! RE: BRI QUOTE Request/190795 International African American Museum
Kind Regards,
Irina

Irina G. Impellittiere | HQ Customer Service Representative
Phone: 201-267-7504 | Email: iimpellittle@tsibinc.com
Turner Surety and Insurance Brokerage, Inc.
250 Pehle Avenue | Suite 311 | Saddle Brook, NJ 07663
www.tsibinc.com
Facebook | LinkedIn | Twitter
CA License # 0E89701

Please be advised insurance coverage cannot be altered, bound or cancelled by voicemail, email, fax, or online via our website. Insurance coverage is not effective until confirmed in writing by a licensed broker.

From: Prescott, Blakely C - (CAR) <bprescott@tcco.com>
Sent: Wednesday, February 10, 2021 10:10 AM
To: brcertrequest <brcertrequest@tcco.com>
Subject: Urgent Request! RE: BRI QUOTE Request/190795 International African American Museum
Importance: High

Good morning! Can I please get a quote today to extend the builder’s risk policy for 190795 International African American Museum to 07/31/2021? We need to provide pricing to the Owner today. Please note this is for a **QUOTE ONLY**.

Blakely Prescott | Insurance Manager
Turner Construction Company
mobile 980.395.3355 | bprescott@tcco.com
website

From: Prescott, Blakely C - (CAR)
Sent: Tuesday, February 9, 2021 10:41 AM
To: brcertrequest <brcertrequest@tcco.com>
Subject: RE: BRI QUOTE Request/190795 International African American Museum
Importance: High

Good morning! Following up on the request below for a BRI extension quote if you can please provide given the wind, earthquake, and flood additional premiums. Thanks.

Blakely Prescott | Insurance Manager
Turner Construction Company
mobile 980.395.3355 | bprescott@tcco.com
website

From: Prescott, Blakely C - (CAR)
Sent: Wednesday, February 3, 2021 5:47 PM
To: brcertrequest <brcertrequest@tcco.com>
Subject: BRI QUOTE Request/190795 International African American Museum
Importance: High

Good evening! Can you please provide a **QUOTE ONLY** at this time to extend the builder’s risk policy for 190795 International African American Museum to **07/31/2021**?

The current expiration is 3/31/2021 and please note an A/P applies for Coastal Windstorm (June & July 2021), Flood (Zone 1), and Earthquake. I’ve attached the original cert issued for your reference. Please provide as soon as possible. Thanks!

**Blakely Prescott**  | Insurance Manager
**Turner Construction Company**
mobile 980.395.3355  | [bprescott@tcco.com](mailto:bprescott@tcco.com)
[website](http://www.turnerconstruction.com)
### Original

**ORIGINAL Contract Volume**: $58,457,323

#### Delay In Completion:

<table>
<thead>
<tr>
<th>Wind Months</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### ORIGINAL Start Date

| 8/1/2019 | 8/1/2019 | 11/30/2019 | 121 |

#### ORIGINAL Completion Date

| 3/31/2021 | 6/1/2020 | 11/30/2020 | 182 |

#### Term in No. of Days:

| 608 |

#### Wind in No. of Days:

| 303 |

#### Wind in Months:

| 9.9 |

<table>
<thead>
<tr>
<th>Ded.</th>
<th>Annual Base Rate/$100*</th>
<th>Adj Term (days)</th>
<th>Term Rate/$100</th>
<th>Term Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Rate</td>
<td>$10,000</td>
<td>0.06990</td>
<td>608</td>
<td>0.11644</td>
</tr>
<tr>
<td>Earthquake</td>
<td>0.12000</td>
<td>608</td>
<td>0.19989</td>
<td>$116,851</td>
</tr>
<tr>
<td>Flood</td>
<td>0.07000</td>
<td>608</td>
<td>0.11660</td>
<td>$68,163</td>
</tr>
<tr>
<td>Windstorm</td>
<td>0.04000</td>
<td>303</td>
<td>0.40000</td>
<td>$233,829</td>
</tr>
<tr>
<td>Mold</td>
<td>0.00000</td>
<td>608</td>
<td>0.00000</td>
<td>$0</td>
</tr>
<tr>
<td>Delay in Completion</td>
<td>0.00000</td>
<td>608</td>
<td>0.00000</td>
<td>$0</td>
</tr>
<tr>
<td>Terrorism</td>
<td>0.00500</td>
<td>608</td>
<td>0.00833</td>
<td>$4,869</td>
</tr>
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</table>

**ORIGINAL PREMIUM TOTAL FROM BINDER**

$491,777

---

### END #2

**ORIGINAL Contract Volume**: $58,457,323

#### Delay In Completion:

<table>
<thead>
<tr>
<th>Wind Months</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### ORIGINAL Start Date

| 8/1/2019 | 8/1/2019 | 11/30/2019 | 121 |

#### ORIGINAL Completion Date

| 7/31/2021 | 6/1/2021 | 7/31/2021 | 60 |

#### Term in No. of Days:

| 730 |

#### Wind in No. of Days:

| 363 |

#### Wind in Months:

| 11.9 |

<table>
<thead>
<tr>
<th>Ded.</th>
<th>Annual Base Rate/$100*</th>
<th>Adj Term (days)</th>
<th>Term Rate/$100</th>
<th>Term Additonal Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Rate</td>
<td>$10,000</td>
<td>0.06990</td>
<td>730</td>
<td>0.13980</td>
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<tr>
<td>Earthquake</td>
<td>0.12000</td>
<td>730</td>
<td>0.24000</td>
<td>$140,298</td>
</tr>
<tr>
<td>Flood</td>
<td>0.06000</td>
<td>730</td>
<td>0.12000</td>
<td>$70,149</td>
</tr>
<tr>
<td>Windstorm</td>
<td>0.04000</td>
<td>363</td>
<td>0.47607</td>
<td>$278,295</td>
</tr>
<tr>
<td>Mold</td>
<td>0.00000</td>
<td>730</td>
<td>0.00000</td>
<td>$0</td>
</tr>
<tr>
<td>Delay in Completion</td>
<td>0.00000</td>
<td>730</td>
<td>0.00000</td>
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<tr>
<td>Terrorism</td>
<td>0.00500</td>
<td>730</td>
<td>0.01000</td>
<td>$5,846</td>
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</tbody>
</table>

**ORIGINAL PREMIUM TOTAL FROM BINDER**

$576,311

**CO Value to Owner (122 day extension; 2 months wind zone; flood zone 1 & earthquake)**

$84,533

---

### Extension Quote 05-03-2021

**ORIGINAL Contract Volume**: $58,457,323

#### Delay In Completion:

<table>
<thead>
<tr>
<th>Wind Months</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### ORIGINAL Start Date

| 8/1/2019 | 8/1/2019 | 11/30/2019 | 121 |

#### ORIGINAL Completion Date

| 8/28/2021 | 6/1/2020 | 11/30/2020 | 182 |

#### Term in No. of Days:

| 758 |

#### Wind in No. of Days:

| 391 |

#### Wind in Months:

| 12.8 |

<table>
<thead>
<tr>
<th>Ded.</th>
<th>Annual Base Rate/$100*</th>
<th>Adj Term (days)</th>
<th>Term Rate/$100</th>
<th>Term Premium</th>
<th>Additonal Premium</th>
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<tbody>
<tr>
<td>Base Rate</td>
<td>$10,000</td>
<td>0.06990</td>
<td>758</td>
<td>0.14516</td>
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<tr>
<td>Earthquake</td>
<td>0.12000</td>
<td>758</td>
<td>0.24921</td>
<td>$145,679</td>
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<td>Flood</td>
<td>0.06000</td>
<td>758</td>
<td>0.12460</td>
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<td>0.51279</td>
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<tr>
<td>Mold</td>
<td>0.00000</td>
<td>758</td>
<td>0.00000</td>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>Delay in Completion</td>
<td>0.00000</td>
<td>758</td>
<td>0.00000</td>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>Terrorism</td>
<td>0.00500</td>
<td>758</td>
<td>0.01038</td>
<td>$6,070</td>
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</tr>
</tbody>
</table>

**ORIGINAL PREMIUM TOTAL FROM BINDER**

$609,208

**$32,897.02**
### Extension Quote 06-21-2021

**ORIGINAL Contract Volume**: $58,457,323

**Delay In Completion:**

**Wind Months** | **Days**
--- | ---
8/1/2019 | 8/1/2019 | 11/30/2019 | 121

**ORIGINAL Start Date**: 8/1/2019

**ORIGINAL Completion Date**: 3/31/2021

**Term in No. of Days**: 608

**Wind Term in No. of Days**: 303

**Wind in Months**: 9.9

<table>
<thead>
<tr>
<th>Ded.</th>
<th>Annual Base Rate/$100</th>
<th>Adj Term (days)</th>
<th>Term Rate/$100</th>
<th>Term Premium</th>
<th>Additional Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>$10,000</td>
<td>0.06990</td>
<td>608</td>
<td>0.11644</td>
<td>$68,065</td>
<td></td>
</tr>
<tr>
<td>Earthquake</td>
<td>0.12000</td>
<td>608</td>
<td>0.19989</td>
<td>$116,851</td>
<td></td>
</tr>
<tr>
<td>Flood</td>
<td>0.07000</td>
<td>608</td>
<td>0.11660</td>
<td>$68,163</td>
<td></td>
</tr>
<tr>
<td>Windstorm</td>
<td>0.04000</td>
<td>303</td>
<td>0.40000</td>
<td>$233,829</td>
<td></td>
</tr>
<tr>
<td>Mold</td>
<td>0.00000</td>
<td>608</td>
<td>0.00000</td>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>Delay in Completion</td>
<td>0.00000</td>
<td>608</td>
<td>0.00000</td>
<td>$0</td>
<td></td>
</tr>
</tbody>
</table>

**Terrorism**

<table>
<thead>
<tr>
<th>Ded.</th>
<th>Annual Base Rate/$100</th>
<th>Adj Term (days)</th>
<th>Term Rate/$100</th>
<th>Term Premium</th>
<th>Additional Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>$0.00500</td>
<td>0.01042</td>
<td>761</td>
<td>0.00000</td>
<td>$6,237</td>
<td>$167.08</td>
</tr>
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</table>

**ORIGINAL PREMIUM TOTAL FROM BINDER**

$627,117 | $17,909.03

$17,909

3524
CERTIFICATE OF INSURANCE

CERTIFICATE PERIOD      08/01/19  to  08/31/21  CERTIFICATE NUMBER  CRT 2055837-00

This Certificate follows the terms and conditions of ZURICH AMERICAN INSURANCE COMPANY Policy MBR 4550345-13

This certificate neither affirmatively nor negatively amends, extends or alters the coverage, limits, terms or conditions of the Master policy unless expressly stated herein.

NAMED INSURED (include address)  TURNER CONSTRUCTION COMPANY
3 Paragon Drive
Montvale, NJ 07645

ADDITIONAL INSUREDS (include address) To the extent required by any contract or subcontract for the 190795-International African American Museum project, and then only as their respective interests may appear, all owners, all contractors and subcontractors of every tier, and tenants at the project location, are recognized as Additional Named Insureds hereunder. As respects architects, engineers, manufacturers and suppliers, their interest is limited to their site activities only.

LOSS PAYEE (include address)

MORTGAGEE (include address)

PROJECT LOCATION (include address) 190795-International African American Museum
Concord St and Inspection St.
Charleston, SC 29403

PROJECT DESCRIPTION (Structural type, size, material type, occupancy, etc.) (If renovation or rehab, be specific) The project is new construction of a 41,760sf elevated building, containing 22,280sf of exhibit space and 10,175sf of support and reseach space on the main floor with a 7,610sf office/mechanical penthouse. The project includes significant landscape exh
Construction Type: New Construction
Scope of Work: Community Centers
Term (Days): 761
Project Value: $59,829,652
BR Comment: Endt. 2 - Term extended to 8/31/2021 (8/28/2021) CV increased to $59,829,652 ($58,457,323)

COVERAGE

Contractor's Wrap Around

(Place X in all applicable coverage blocks)

<table>
<thead>
<tr>
<th>Additional Premium</th>
<th>Annual rate/ $100</th>
<th>Term rate/ $100</th>
<th>Term Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Builders Risk</td>
<td>.0699</td>
<td>.1457</td>
<td>$2,336/A/P</td>
</tr>
<tr>
<td>Delay In Completion</td>
<td></td>
<td></td>
<td>$ 0</td>
</tr>
<tr>
<td>Coastal Windstorm</td>
<td>.0400</td>
<td>.0000</td>
<td>$ 0</td>
</tr>
<tr>
<td>Earthquake</td>
<td>.1200</td>
<td>.0834</td>
<td>$9,391/A/P</td>
</tr>
<tr>
<td>Flood</td>
<td>.0600</td>
<td>.1251</td>
<td>$2,005/A/P</td>
</tr>
<tr>
<td>Damage To Existing Property</td>
<td></td>
<td></td>
<td>$ 0</td>
</tr>
<tr>
<td>Mold</td>
<td></td>
<td>.0000</td>
<td>$ 0</td>
</tr>
<tr>
<td>Certified/Non-Certified Terrorism</td>
<td></td>
<td>.0050</td>
<td>$167/A/P</td>
</tr>
<tr>
<td>State Surcharge</td>
<td></td>
<td>.0104</td>
<td>$ 0</td>
</tr>
</tbody>
</table>

Term Total: $ 0
STANDARD COVERAGE TERMS
(Coverage shall only apply under this Certificate to those individual Limits, Sub-limits and Aggregate Limits for which a value is entered below, but in no event these Sub-limits and Aggregate Limits shall exceed the limit of liability.)

| LIMIT OF LIABILITY | $ 59,829,652 |

Any One OCCURRENCE During The Certificate Period

**SUB-LIMITS OF LIABILITY**
(Sublimits per OCCURRENCE except Delay In Completion as Certificate Aggregate)

<table>
<thead>
<tr>
<th>Sub-Limit</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 59,829,652</td>
<td>Physical Damage to the INSURED PROJECT</td>
<td></td>
</tr>
<tr>
<td>$ 250,000</td>
<td>Delay In Completion (see coverage terms below for specific sublimits)</td>
<td></td>
</tr>
<tr>
<td>$ 5,000,000</td>
<td>Physical Damage To Property In Transit - Any One Conveyance</td>
<td></td>
</tr>
<tr>
<td>$ 5,000,000</td>
<td>Physical Damage To Property In Offsite Storage - Any One Location</td>
<td></td>
</tr>
<tr>
<td>$ 2,500,000</td>
<td>Architects and Engineers Fees</td>
<td></td>
</tr>
<tr>
<td>$ 5,000,000</td>
<td>Expediting Expense and Contractor's Extra Expense, combined</td>
<td></td>
</tr>
<tr>
<td>$ 250,000</td>
<td>Mold Per Occurrence/ $250,000 Per Project Aggregate</td>
<td></td>
</tr>
<tr>
<td>$ 500,000</td>
<td>Physical Damage To Plans, Blueprints, Drawings, Renderings, Specifications Or Other Contract Documents And Models At The Insured Project</td>
<td></td>
</tr>
<tr>
<td>$ 20,000,000</td>
<td>Ordinance of Law / Demolition &amp; Increased Cost of Construction</td>
<td></td>
</tr>
<tr>
<td>$ 2,000,000</td>
<td>Damage To Existing Property</td>
<td></td>
</tr>
<tr>
<td>25.0%</td>
<td>Of the amount of insured physical loss or damage to Covered Property, whichever is less - Debris Removal Coverage</td>
<td></td>
</tr>
<tr>
<td>$ 100,000</td>
<td>Emergency Property Protection Expense – in the Certificate Term</td>
<td></td>
</tr>
<tr>
<td>$ 250,000</td>
<td>Fire Department Service Charges</td>
<td></td>
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<tr>
<td>$ 5,000</td>
<td>Fire Protective Equipment Refills</td>
<td></td>
</tr>
<tr>
<td>$ 250,000</td>
<td>Claims Preparation Costs</td>
<td></td>
</tr>
<tr>
<td>$ 250,000</td>
<td>Pollution/Contaminant Clean up</td>
<td></td>
</tr>
<tr>
<td>$ 250,000</td>
<td>Maximum any one item - Trees, Plants, and Shrub</td>
<td></td>
</tr>
<tr>
<td>$ 250,000</td>
<td>Better Green Coverage</td>
<td></td>
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</table>

**ANNUAL AGGREGATES**
(Aggregate limits apply to each annual period within this Certificate beginning on the Certificate inception date)

<table>
<thead>
<tr>
<th>Aggregate</th>
<th>Amount</th>
<th>Peril</th>
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<tbody>
<tr>
<td>$ 25,000,000</td>
<td>By The Peril Of EARTHQUAKE</td>
<td></td>
</tr>
<tr>
<td>$ 25,000,000</td>
<td>By The Peril Of NAMED STORM</td>
<td></td>
</tr>
<tr>
<td>$ 15,000,000</td>
<td>By The Peril Of FLOOD</td>
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</table>

**DEDUCTIBLES**
(Deductibles apply per OCCURRENCE)
(When % is entered, the % is applied against the total insured physical damage values at risk at the time and place of loss subject to the dollar minimum)

<table>
<thead>
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<th>Amount</th>
<th>Peril</th>
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</thead>
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<td>Physical Damage, Except EARTHQUAKE</td>
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</tr>
<tr>
<td>2.5% Min. of $100K</td>
<td>% EARTHQUAKE</td>
<td></td>
</tr>
<tr>
<td>5% Min. or $250K</td>
<td>% NAMED STORM</td>
<td></td>
</tr>
<tr>
<td>$ 250,000</td>
<td>% FLOOD</td>
<td></td>
</tr>
<tr>
<td>$ 50,000</td>
<td>% WATER DAMAGE</td>
<td></td>
</tr>
<tr>
<td>n/a</td>
<td>HOT TESTING</td>
<td></td>
</tr>
<tr>
<td>30 Calendar Day</td>
<td>Calendar Day Deductible Period – Delay In Completion - Standard Coverage</td>
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</tr>
<tr>
<td>30 Calendar Day</td>
<td>Calendar Day Deductible Period – Delay In Completion - Optional Coverage</td>
<td></td>
</tr>
</tbody>
</table>

**HOT TESTING PERIOD TERMS**
(If an X is entered in the coverage block on page one the following must be provided)

HOT TESTING PERIOD: Days
### DELAY IN COMPLETION COVERAGE TERMS

(Coverage for Delay In Completion shall only apply under this Certificate when this section is completed in its entirety.)

*This section only needs to be completed for limits in excess of $500,000.

#### NAMED INSURED & BUSINESS ADDRESS

<table>
<thead>
<tr>
<th>ANTICIPATED DATE OF COMPLETION</th>
<th>PERIOD OF INDEMNITY</th>
<th>Calendar Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject to individual Certificate Aggregate sublimits shown below, the total Certificate Aggregate sublimit for which the Company shall be liable is $</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CERTIFICATE AGGREGATE SUB-LIMITS OF LIABILITY</th>
<th>Loss Of Gross Earnings</th>
<th>$</th>
<th>Loss Of Rental Income</th>
<th>$</th>
<th>Soft Costs / Additional Expense</th>
<th>$</th>
</tr>
</thead>
</table>

When a Certificate Aggregate Sub-limit is entered for Soft Costs / Additional Expense above, coverage shall be further limited to the individual Certificate Aggregate Sub-limits entered to the right:

- Interim Interest Expense $ |
- Realty Taxes / Ground Rents $ |
- Advertising Expense $ |
- Commission Expense $ |
- Architect / Engineer Fees $ |
- Project Administration Expense $ |
- Legal / Accounting Fees $ |
- Insurance Premiums $ |

### OTHER COVERAGE TERMS / CONDITIONS

(Identify other terms and conditions below that apply to this Certificate)

#### COVERAGE INFORMATION

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES LISTED HEREIN IS SUBJECT TO ALL TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

#### CANCELLATION

THE COMPANY MAY ONLY CANCEL THIS POLICY IN THE EVENT OF NON PAYMENT OF THE PREMIUM DUE BY MAILING WRITTEN NOTICE STATING WHEN, NOT LESS THAN TEN (10) DAYS THEREAFTER SUCH CANCELLATION SHALL BE EFFECTIVE, TO THE NAMED INSURED AT THE ADDRESS SHOWN IN THE POLICY.

---

Turner Surety & Insurance Brokerage. By:

 Issued By:
IMPORTANT DISCLOSURE NOTICE

We are making the following informational disclosures in compliance with The Terrorism Risk Insurance Act of 2002. No action is required on your part.

Disclosure of Terrorism Premium

The premium charge for risk of loss resulting from acts of terrorism (as defined in the Act) under the policy(ies) This amount is $167.

Disclosure of Availability of Coverage for Terrorism Losses

As required by the Terrorism Risk Insurance Act of 2002, the member companies of Zurich North America make available coverage for losses resulting from acts of terrorism (as defined in the Act) with terms, amounts, and limitations that do not differ materially as those for losses arising from events other than acts of terrorism.

Disclosure of Federal Share of Insurance Company’s Terrorism Losses

The Terrorism Risk Insurance Act of 2002 establishes a mechanism by which the United States government will share in insurance company losses resulting from acts of terrorism (as defined in the Act) after an insurance company has paid losses in excess of an annual aggregate deductible. For 2002, the insurance company deductible is 1% of direct earned premium in the prior year; for 2003, 7% of direct earned premium in the prior year; for 2004, 10% of direct earned premium in the prior year; and for 2005, 15% of direct earned premium in the prior year. The federal share of an insurance company’s losses above its deductible is 90%. In the event the United States government participates in losses, the United States government may direct insurance companies to collect a terrorism surcharge from policyholders. The Act does not currently provide for insurance industry or United States government participation in terrorism losses that exceed $100 billion in any one calendar year.

Definition of Act of Terrorism

The Terrorism Risk Insurance Act defines "act of terrorism" as any act that is certified by the Secretary of the Treasury, in concurrence with the Secretary of State and the Attorney General of the United States:

1. to be an act of terrorism;
2. to be a violent act or an act that is dangerous to human life, property or infrastructure;
3. to have resulted in damage within the United States, or outside of the United States in the case of an air carrier (as defined in section 40102 of title 49, United States Code) or a United States flag vessel (or a vessel based principally in the United States, on which United States income tax is paid and whose insurance coverage is subject to regulation in the United States), or the premises of a United States mission; and
4. to have been committed by an individual or individuals acting on behalf of any foreign person or foreign interest as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.

But, no act shall be certified by the Secretary as an act of terrorism if the act is committed as part of the course of a war declared by Congress (except for workers’ compensation) or property and casualty insurance losses resulting from the act, in the aggregate, do not exceed $5,000,000.

These disclosures are informational only and do not modify the policy or affect your rights under the policy.
**Change Order Proposal Review Form**

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 2/24/2022  
**Contractor:** Turner Construction Company

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 177.2

---

**Description of work to be performed:** Builders Risk from 9/1/2021 to 1/1/2022  
This change is associated with the payment for the Builders Risk Insurance from 9/1/2021 to 1/1/2021.  
As per the contract documents if the GMP contract extends past the contractual completion date, Turner will be reimbursed for additional insurance costs incurred through the Builders Risk Insurance at the actual costs.

- **A - Customer Requested Change**
- **B - Code/Regulatory Agency Required Change**
- **C - Errors and Omissions**
- **D - Replacing Unsuitable Soils**
- **E - Soils Related Change Other**
- **F - Unforeseen Conditions**
- **G - Time Related Change**
- **H - Liquidated Damages**
- **I - Value Engineering Change**
- **J - Exercising Pre-Priced Option (Allowance)**

**COR 177.2 Builders Risk 9/1/2021 to 10/31/2021**  
$74,406.00

**COR 177.2 Builders Risk though 12/1/2021**  
$37,000.00

**COR 177.2 Builders Risk 12/1/2021 to 1/1/2022**  
$30,000.00

**Total**  
$141,406.00

**Proposal Cost (not to exceed):** $141,406.00  
**Owner Contingency Allow. Bal.**

**Time Extension Requested:**

**Time Extension Recommended:**

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

---

**Attachments:**  
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)
- Cost Estimate (Expected to Exceed $10,000)
- Change Proposal Request from CMR with Detailed Backup

---

**Approved: Rick Holt, Cumming Corp.**

**Decision needed by:** February 24, 2022

**(NO) (YES)**  
(Circle One)

**(NO) (YES)**  
(Circle One)

**(NO) (YES)**  
(Circle One)

**(NO) (YES)**  
(Circle One)

**(NO) (YES)**  
(Circle One)

**(NO) (YES)**  
(Circle One)

**(NO) (YES)**  
(Circle One)

**(NO) (YES)**  
(Circle One)

**(NO) (YES)**  
(Circle One)

**Approved:**  
**Robert Faust, Cumming Corp.**

**Edmund V. Most, City of Charleston**

**Bernard Costantino, Moody Nolan**
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

<table>
<thead>
<tr>
<th>Work Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &amp;/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
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<tbody>
<tr>
<td>Owner Directive</td>
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<table>
<thead>
<tr>
<th>Pricing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROM Estimate of GR’s &amp; Insurances</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluating Potential for Time Impact</td>
</tr>
<tr>
<td>Work has been Completed</td>
</tr>
</tbody>
</table>

Submitted By: Contractor: TURNER BROWNSTONE
02/15/2022 $ 934,719
$ 141,406.00

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

$ 934,719 $ 141,406.00
## General Summary of the Estimate

**International African American Muesum**

### Item Description of Work

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
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<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
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**Summary of Bonds**

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<tr>
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<th>Description</th>
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<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
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<td>CCIP</td>
<td>2.50%</td>
<td>$0.00</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>0.012</td>
<td>$0.00</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>0.84%</td>
<td>$0.00</td>
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<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>0.00732</td>
<td>$0.00</td>
</tr>
<tr>
<td>A11</td>
<td>Procore</td>
<td>0.04500%</td>
<td>$0.00</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>3.25%</td>
<td>$0.00</td>
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**Subtotal**

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<tbody>
<tr>
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<td>$934,719</td>
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**Estimate Total**

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<tr>
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<th>Amount</th>
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<tbody>
<tr>
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<td>$934,719</td>
</tr>
</tbody>
</table>
### GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’s)

**DESCRIPTION**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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### TRADE DIRECTS

**DESCRIPTION**

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<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
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<td>LS</td>
<td>$793,313.00</td>
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<tr>
<td>Turner General Conditions Change</td>
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<tr>
<td>Additional BR Policy for Job Coverage</td>
<td>$141,406.00</td>
<td>1</td>
<td>LS</td>
<td>$141,406.00</td>
</tr>
</tbody>
</table>

Turner's Daily agreed upon Daily rate for the project 8,667.00
The COR is a Negotiated rate less than the approved rate.

| Description                          | Rate       | |
|--------------------------------------|------------|
| COR 177.2 Builders Risk 9/1/21 to 10/31/2021 | $74,406.00 |
| COR 177.2 Builders Risk though 12/1/2021 | $37,000.00 |
| COR 177.2 Builders Risk 12/1/2021 to 1/1/2022 | $30,000.00 |

**Total** $141,406.00
To: Edmund V. Most  
From: Mike Risteski  
Date: 6/22/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Proposal No.: Change Order Request No. 19  
Contract: Construction

Description of work to be performed: Pile Cap Modifications @ Column Line B-10 and C-10
This is a request to access the Construction Contingency to cover design modification (Added rebar and concrete in the pile caps) to accommodate the piles that were installed out of tolerance due to unforeseen debris encountered during installation.
This caused the piles to be offset from their anticipated final location.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $19,075.00  
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances: This change will not net in a $0.00 contract modification as the $960,000.00 Owner Contingency allowance will be accessed to cover the cost of this scope.

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: June 22, 2021

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

(Circle One)  
(Circle One)  
(Circle One)  
(Circle One)  
(Circle One)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide all required Labor, Materials, Equipment, and Administrative/Support costs to add additional rebar to pile caps because of unforeseen conditions. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &amp;/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.</th>
</tr>
</thead>
</table>

|--------|-----------------|-------------------|----------------------|--------------|

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR’s &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Work Authorization is Requested By:</th>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Submitted By:</th>
<th>Contractor: TURNER BROWNSTONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Lewis Project Engineer</td>
<td>2/17/2020</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amount Requested</th>
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</thead>
<tbody>
<tr>
<td>$ 19,075</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Requested Action:</th>
<th>Authorized to Proceed While Pricing</th>
<th>Price Only</th>
<th>Do Not Proceed or Price</th>
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</table>

<table>
<thead>
<tr>
<th>Authorized Action:</th>
<th>Authorized to Proceed While Pricing</th>
<th>Price Only</th>
<th>Do Not Proceed or Price</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Approved By:</th>
<th>Owner: City of Charleston</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edmund Most</td>
<td>2/17/2020</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amount Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 19,075</td>
</tr>
</tbody>
</table>

Date Submitted: February 17, 2020
To: Edmund Most
City of Charleston

Re: Internation African American Muesum
Pile Cap B10 and C10 - Rebar Changes
### Internation African American Muesum
#### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
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<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR $0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT $0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$17,554.00</td>
</tr>
<tr>
<td>A4</td>
<td></td>
<td>SUBTOTAL TRADE DIRECTS $17,554</td>
</tr>
</tbody>
</table>

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.45% $430.07</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012 $210.65</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84% $147.45</td>
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<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732 $128.50</td>
</tr>
<tr>
<td>A11</td>
<td>Procore</td>
<td>@ 0.04500% $7.90</td>
</tr>
<tr>
<td>A14</td>
<td>Overhead and Profit</td>
<td>@ 3.25% $596.38</td>
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<p>| | | |</p>
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<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>SUBTOTAL</td>
<td>$17,554</td>
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<td></td>
<td>ESTIMATE TOTAL</td>
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</tbody>
</table>
GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

DESCRIPTION

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
<td></td>
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</tbody>
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TRADE DIRECTS

DESCRIPTION

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<th>UNIT</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$17,554.00</td>
<td>1</td>
<td>$17,554.00</td>
</tr>
</tbody>
</table>

Pile Cap B and C 10 Rebar redesign

The proposal requires 35 business days just for design. Current GMP includes 10 business for this scope of work.

Per Take off and Review with Cumming.
TCCo and subcontractor agrees to total cost for COR 19, 21, 22, and 24.

Total Cost of work submitted

<table>
<thead>
<tr>
<th>Owner Paid Costs</th>
<th>Turner / Subcontractor Paid Costs</th>
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</thead>
<tbody>
<tr>
<td>COR 19</td>
<td>19,075</td>
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<tr>
<td>COR 21</td>
<td>24,241</td>
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<tr>
<td>COR 22</td>
<td>21,179</td>
</tr>
<tr>
<td>COR 24</td>
<td>0.00</td>
</tr>
</tbody>
</table>

$17,554

DIRECT WORK SUBTOTAL $17,554

This includes all cost associated with the Pile Caps. No further cost than highlight above will be submitted.
To: Bobby Teachey & Walt Lewis  
2/5/2020  
COR #: 23  
Title: Pile Cap Enlargement Due to Mis-driven Piles

Schedule Impact: TBD Contingent on Rebar Delivery

Agent: Donley's Concrete Group

This COR is for revision to pile caps B-10 and C-10. Piles within the foundation were driven out of tolerance both horizontally and vertically; therefore, the SEOR enlarged pile caps and added rebar to account for the as-built locations of the piles. This COR is for the additional materials and labor to modify the pile caps to the new design as given in response to RFIs 131 and 139.

<table>
<thead>
<tr>
<th>Materials</th>
<th>Qty.</th>
<th>Unit</th>
<th>Labor $/UM</th>
<th>EQ $/UM</th>
<th>Mat $/UM</th>
<th>SUB $/UM</th>
<th>Labor</th>
<th>EQ</th>
<th>Mat</th>
<th>SUB</th>
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<tbody>
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<td>Additional Concrete Admixtures</td>
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<td>$ -</td>
<td>$ 130</td>
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<td>Additional Rebar (Lump sum w/ detailing)</td>
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<td>TONS</td>
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<td>$ -</td>
<td>$ 2,716</td>
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<td>Additional Lumber &amp; stayform</td>
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<td>Carpenter (For overdriven pile detail)</td>
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<td>$ 54</td>
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Subtotal $ 7,568 $ - $ 2,165 $ 4,930

Burdens

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Item Totals $ 7,871 $ - $ 2,739 $ 6,945

Totals $ 17,554

Submitted by: Chris Hewitt, Project Manager
Donley’s Concrete Group
# Harris Rebar North Carolina Inc.

<table>
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<tr>
<th>Project No:</th>
<th>06219158-13</th>
<th>Change Order #13</th>
<th>Date: February 4, 2020</th>
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**To:** Donley's Concrete  
Mr. Chris Hewitt  
**Project:** International African American Museum  
**Loc.:** Charleston, SC  
**Arch.:**

**Change Order #13:** Approximately 2.37 tons plain rebar for $2,960.00 including applicable tax.

**Description:** Additional rebar and 1.5 hours of detailing time required per RFI 131 dated 1/23/20 & RFI 139 dated 1/28/20. RFI’s added additional reinforcing around the perimeter of the pile caps on grid line 10 to account for piles out of tolerance. Pile elevations surveys were not included, we provided thickened reinforcing at all locations per GNA’s response to field verify elevation and apply detail as needed.

---

### Accepted by Buyer

| Buyer's name: |  
| Approved By: |  
| Name/Title: |  

---

### Harris Rebar North Carolina Inc.

<table>
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<tr>
<th>By:</th>
<th>Neil Byrd</th>
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<tr>
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<td>Name/Title:</td>
<td>Gary Rhodes, Area Manager</td>
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Pile Cap Redesign B10

TO: Bernard Costantino (Moody Nolan) (Response Required)
FROM: Bobby Teachey II (Brownstone)
DATE INITIATED: 01/20/2020
LOCATION:
PROJECT STAGE:
SUB JOB:
COST IMPACT: TBD
DRAWING NUMBER:
LINKED DRAWINGS:
RECEIVED FROM: Chris Hewitt (Donley Inc)
COPIES TO: Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Xiaoxiao Wu (Guy Nordenson and Associates)

Question from Bobby Teachey II (Brownstone) at 07:54 AM on 01/20/2020

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbuilts need to be redesigned. Per conversation:

From: Costantino, Bernard
Sent: Friday, December 13, 2019, 10:25 PM
To: 'Bri'Shae Anderson (bdanderson@tcco.com)'; Bobby Teachey Cc: Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL); Bobby Teachey II (Brownstone); Cook, Julie; Costantino, Bernard Subject: Pile Cap Redesign As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch #3: B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFI's for each batch. GNA will respond to the RFI's with the redesign. If you have questions, please call. Best, BERNARD COSTANTINO FAIA, NCARB, LEED AP

ARCHITECT
O 614.461.4664
D 614.280.8992
C 614.774.8957
300 SPRUCE ST, STE 300, COLUMBUS, OH 43215
MOODYNOLAN.COM

From: Cook, Julie
Sent: Friday, January 3, 2020 11:32 AM
To: Bobby Teachey <bteachey@bstonegroup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>
Cc: Costantino, Bernard <BCostantino@moodynolan.com>; Larrimer, Bob <BLarrimer@moodynolan.com>; Xiaoxiao Wu <xw@nordenson.com>; David Himelman (dh@nordenson.com) <dh@nordenson.com>; Beibel (Eva) Zhao <bzh@nordenson.com>; Pardine Daron (dpardine@tcco.com) <dpardine@tcco.com>; Nash Alex (anash@tcco.com) <anash@tcco.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>; Roberts Jonathan (jonathan.roberts@ccorpusa.com) <jonathan.roberts@ccorpusa.com>; Robert H. Faust <bfaust@ccorpusa.com>; Anderson, Bri'Shae D - (CAR) <bdanderson@tcco.com>
Subject: RE: IAAM Priority Order - T-B Confirmation

Bobby –

Here is an update on schedules of priority tasks from GNA. Updates are in red.

SCHEDULE
Task 1:
Batch #5 - 1/2/2020 – returned 1/3
Batch #6 - 1/3/2020
Batch #7 - 1/7/2020
Batch #8 - 1/9/2020

Task 2: RFI #69 on 1/6/2020 – Shear wall shops to be resubmitted after this response.
NOTE: waiting on Elevator opening information from T-B to finalize this task need by EOD today to maintain schedule .
NOTE: Shear wall submittals need to be revised to address confirmed openings in RFI #069.

Task 3: Bulletin #5 – (RFI #53 and 76 – steel modifications) - 1/8/2020

Task 4: TBD after Task 3.
Steel Shop Drawings
  • 1/9/2020 051200-19 Steel shop and erection SEQ 1-8
  • 1/13/2020 051200-20 Steel shop and erection SEQ 9-11
  • 1/20/2020 051200-21 Steel shop and erection SEQ 12-14
Can T-B please provide a BIM coordination schedule to the design team.

Thanks-

JULIE M. COOK  
AIA, LEED AP  
ASSOCIATE PRINCIPAL  
ARCHITECT  
O 614.461.4664  D 614.280.1492  C 614.937.9038  
300 SPRUCE ST, STE 300, COLUMBUS, OH 43215

MOODYNOLAN.COM

| Attachments:  | 7285 - IAAM As-Built_B10.pdf |

Awaiting an Official Response

---

**All Replies:**

**GNA Response:**

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 17 January 2020. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines B/10.

Sheet SSK20200121-02 is for the pile cap at Gridlines B/10

Sheet SSK20200121-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4”). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4” above the bottom of pile cap elevation. This is the basis for GNA’s notes regarding the application of the detail on SSK20200121-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA’s review and approval.
SECTION

SCALE 1" = 1'-0"

NOTES

1  SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS
SEE SSK 20200121-02 FOR REVISED PILE CAP DESIGN AT GRIDLINES B/10.
NOTES

1 REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP B/10 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 17 JANUARY 2020 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES B/10

2 REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3 ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC3 REINFORCING PER SCHEDULE S-500.

SCALE 3/8" = 1'-0"

OUTLINE OF REDESIGNED PILE CAP

AS-DESIGNED PILE CAP PC3 REINFORCING SEE NOTE 2 TYP

ADDITIONAL STANDARD BAR HOOK T&B SEE NOTE 3 TYP

PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

SEE PLAN

SEE PLAN

SCALE 3/8" = 1'-0"
# Pile Cap Redesign C10

**TO:** Julie Cook, AIA (Moody Nolan)  
Bernard Costantino (Moody Nolan) (Response Required)  

**FROM:** Bobby Teachey II (Brownstone)  
5150 trump st, Unit 1602  
Charleston, South Carolina 29425

**DATE INITIATED:** 01/23/2020  
**LOCATION:**  
**PROJECT STAGE:**  
**SUB JOB:**  
**COST IMPACT:** TBD  
**DRAWING NUMBER:** TBD  
**SCHEDULE IMPACT:** TBD

**RECEIVED FROM:** Chris Hewitt (Donley Inc)  
**COPIES TO:**  
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Leonard Spears (ARUP), Stephanie Terault (ARUP), Xiaoxiao Wu (Guy Nordenson and Associates)

---

**Question from Bobby Teachey II (Brownstone) at 12:06 PM on 01/23/2020**

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbults need to be redesigned. Per conversation:

From: Costantino, Bernard  
Sent: Friday, December 13, 2019, 10:25 PM  
To: 'Bri'Shae Anderson (bdanderson@tcco.com); Bobby Teachey  
Cc: Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaoxiao Wu; David Himelman; Cook, Julie; Costantino, Bernard  
Subject: Pile Cap Redesign

As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch #3: B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFI's for each batch. GNA will respond to the RFI's with the redesign. If you have questions, please call. Best,  
BERNARD COSTANTINO FAIA, NCARB, LEED AP

ARCHITECT  O 614.461.4664  D 614.280.8992  C 614.774.8957 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215  MOODYNOLAN.COM

---

From: Cook, Julie  
Sent: Friday, January 3, 2020 11:32 AM  
To: Bobby Teachey <bteachey@bstonegroup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>  
Cc: Costantino, Bernard <BCostantino@moodynolan.com>; Larrimer, Bob <BLarrimer@moodynolan.com>; Xiaoxiao Wu <xw@nordenson.com>; David Himelman (dh@nordenson.com) <dh@nordenson.com>; Beibel (Eva) Zhao <bz@nordenson.com>; Pardine Daron (dpardine@tcco.com) <dpardine@tcco.com>; Nash Alex (anash@tcco.com) <anash@tcco.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>; Roberts Jonathan (jonathan.roberts@ccorpusa.com) <jonathan.roberts@ccorpusa.com>; Robert H. Faust <bfaust@ccorpusa.com>; Anderson, Br/Shae D - (CAR) <bdanderson@tcco.com>

Subject: RE: IAAM Priority Order - T-B Confirmation

Bobby –

Here is an update on schedules of priority tasks from GNA. Updates are in red.

**SCHEDULE**

<table>
<thead>
<tr>
<th>Task</th>
<th>Schedule</th>
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<td>Batch #5 - 1/2/2020</td>
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<td>Batch #6 - 1/3/2020</td>
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<tr>
<td>Batch #8 - 1/9/2020</td>
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</tr>
</tbody>
</table>

Task 2: RFI #69 on 1/6/2020 – Shear wall shops to be resubmitted after this response.  
NOTE: waiting on Elevator opening information from T-B to finalize this task need by EOD today to maintain schedule .  
NOTE: Shear wall submittals need to be revised to address confirmed openings in RFI #069.

Task 3: Bulletin #5 – (RFI #53 and 76 – steel modifications) - 1/8/2020

Task 4: TBD after Task 3.  
Steel Shop Drawings

- 1/9/2020 051200-19 Steel shop and erection SEQ 1-8
- 1/13/2020 051200-20 Steel shop and erection SEQ 9-11
Can T-B please provide a BIM coordination schedule to the design team.

Thanks-

JULIE M. COOK
AIA, LEED AP
ASSOCIATE PRINCIPAL
ARCHITECT

O 614.461.4664  D 614.280.1492  C 614.937.9038
300 SPRUCE ST, STE 300, COLUMBUS, OH 43215

MOODYNOLAN.COM

Attachments:
7285 - IAAM As-Built_B10.pdf

Awaiting an Official Response
GNA response to RFI #139

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 23 January 2020. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines C/10.

Sheet SSK20200124-02 is for the pile cap at Gridlines C/10

Sheet SSK20200124-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4”). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4” above the bottom of pile cap elevation. This is the basis for GNA’s notes regarding the application of the detail on SSK20200124-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA’s review and approval.

X WU
1/28/2020
SECTION
SCALE 1" = 1'-0"
NOTES

1. SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS.

SEE SSK 20200124-02 FOR REVISED PILE CAP DESIGN AT GRIDLINES C/10.

** PC3 [+0'-1'']

**All C/10 pile elevations inaccessible due to depth.

Bracketed value reflects difference between the field computed elevation (provided by Rick Lovelace of Turner, respective to each pile cap**) and the top of pile as-built elevation.
NOTES

1. REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP C/10 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 23 JANUARY 2020 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES C/10

2. REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3. ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC3 REINFORCING PER SCHEDULE S-500.

SECTION

1. SCALE 3/8" = 1'-0"

NOTES

1. PILE DOWELS NOT SHOWN FOR CLARITY
2. T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

2. SCALE 3/8" = 1'-0"

NOTES

1. PILE DOWELS NOT SHOWN FOR CLARITY
2. T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

3. SCALE 3/8" = 1'-0"

NOTES

1. PILE DOWELS NOT SHOWN FOR CLARITY
2. T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

Guy Nordenson and Associates
29 Broadway 18th Floor
New York NY 10006
Tel 212 766 9119

International African American Museum
Redesigned Pile Cap PC3 at Gridline C/10
Scale 3/8" = 1'-0"
24 January 2020
To: Edmund V. Most  
From: Mike Risteski  
Date: 6/22/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 21  
Contract: Construction

Description of work to be performed: Pile Cap Modifications @ Column B-2, C-2, A-3, B-3, and C-3  
This is a request to access the Construction Contingency to cover design modification (Added rebar and concrete in the pile caps to accommodate the piles that were installed out of tolerance due to unforeseen debris encountered during installation. This caused the piles to be offset from their anticipated final location.  

A - Customer Requested Change  
B - Code/Regulatory Agency Required Change  
C - Errors and Omissions  
D - Replacing Unsuitable Soils  
E - Soils Related Change Other  
F - Unforeseen Conditions  
G - Time Related Change  
H - Liquidated Damages  
I - Value Engineering Change  
J - Exercising Pre-Priced Option (Allowance)  
K - Accounting Error  
(Indicate Reason for Change Proposal)

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $24,241.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

 Approved:

Decision needed by: June 22, 2021

(Circle One)

(Circle One)  

(Circle One)

(Circle One)  

(Circle One)
Date Submitted:  February 17, 2020

To:  Edmund Most
      City of Charleston

Re:  Internation African American Muesum

Pile Cap B2, C2, B3,C3 Rebar Redesign

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to install additional rebar to the pile capps per unforeseen conditions. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:  Unforeseen Condition

Pricing:  Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:  Evaluated - NO TIME IMPACT

Work Authorization is Requested By:

Submitted By:  Contractor:  TURNER BROWNSTONE  02/17/2020  $  24,241
      Walter Lewis  Project Engineer

Requested Action:

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Approved By:  Owner:  City of Charleston

City of Charleston

Edmund Most

Amount Approved
### General Requirements (GR's) & General Conditions (GC's)

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<th>DETAIL ESTIMATE OF DIRECTS</th>
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#### Trade Directs

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**ESTIMATE TOTAL** $24,241
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

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### TRADE DIRECTS

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**DIRECT WORK SUBTOTAL** $22,308
To: Bobby Teachey & Walt Lewis  
1/20/2020  
COR #: 18  
Title: Pile Cap Enlargement Due to Mis-driven Piles

Schedule Impact: TBD Contingent on Rebar Delivery

This COR is for revision to pile caps B-2, C-2, A-3, B-3, and C-3. Piles within the foundation were driven out of tolerance both horizontally and vertically; therefore, the SEOR enlarged pile caps and added rebar to account for the as-built locations of the piles. This COR is for the additional materials and labor to modify the pile caps to the new design as given in response to RFIs 90, 91 and 118.

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<th>Mat $/UM</th>
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<td>$ 200</td>
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Submitted by: Chris Hewitt, Project Manager  
Donley’s Concrete Group
Harris Rebar North Carolina Inc.

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<th>Project No:</th>
<th>06219158-12</th>
<th>Change Order #12-Revised</th>
<th>Date: January 21, 2020</th>
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To: Donley's Concrete  
Mr. Chris Hewitt  

Project: International African American Museum  
Loc.: Charleston, SC  
Archt.:  

Change Order #12-Revised: Approximately 3.77 tons plain rebar for $5,215.00 including applicable tax.  
Description: Additional rebar and 8.5 hours of detailing time required per RFI 090 dated 01/07/20, RFI 091 dated 01/09/20 and RFI 090 Follow up and RFI 118 received on 1/20/19. RFI increased perimeter and thickness of pile caps at grid lines 2 & 3, to account for piles placed out of tolerance. Additional perimeter and thickened portion bars added at their respective locations.

Accepted by Buyer

This day of  
Buyer's name:  
Approved By:  
Name/Title:  

Harris Rebar North Carolina Inc.

By: Neil Byrd  
1/21/2020  
Title: Sales Estimator  
Approved By:  
Name/Title: Gary Rhodes, Area Manager
**Pile Cap Redesign C3 & B3**

**TO:** Bernard Costantino (Moody Nolan)
Julie Cook, AIA (Moody Nolan)

**FROM:** Bobby Teachey II (Brownstone)
5150 Trump st, Unit 1602
Charleston, South Carolina 29425

**DATE INITIATED:** 12/20/2019

**LOCATION:**

**PROJECT STAGE:**

**SUB JOB:**

**COST IMPACT:** TBD

**DRAWING NUMBER:**

**LINKED DRAWINGS:**

**RECEIVED FROM:**

**COPIES TO:**
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Arash Hajighasemi (Turner Construction (ATL)), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Leonard Spears (ARUP), Stephanie Terault (ARUP), Xiaoxiao Wu (Guy Nordenson and Associates)

---

**Question from Bobby Teachey II (Brownstone) at 04:39 PM on 12/20/2019**

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbuilts need to be redesigned. Per conversation:

From: Costantino, Bernard
Sent: Friday, December 13, 2019, 10:25 PM
To: Bri'Shae Anderson (bdanderson@tcco.com); Bobby Teachey
Cc: Robert H. Faust; jonathan.roberts@cccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaoxiao Wu; David Himelman; Cook, Julie; Costantino, Bernard
Subject: Pile Cap Redesign

As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of:

- **Batch #1:** A9, B9 C9
- **Batch #2:** B8, C8
- **Batch #3:** B7, C7
- **Batch #4:** B5, B6

To facilitate and document submission of the redesign, please issue individual RFI’s for each batch. GNA will respond to the RFI’s with the redesign. If you have questions, please call. Best, BERNARD COSTANTINO FAIA, NCARB, LEED AP

**Architect** 0 614.461.4664  D 614.280.8992  C 614.774.8957  300 SPRUCE ST, STE 300, COLUMBUS, OH 43215  MOODYNOLAN.COM

**Attachments:**
- 7285 - IAAM As-Built_B3.pdf
- 7285 - IAAM As-Built_C3.pdf

Awaiting an Official Response

---

**GNA Response:**

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 17 December 2019 and 20 December 2019. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines B/3 and C/3.

Sheet SSK20200107-02 is for the pile cap at Gridlines B/3.
Sheet SSK20200107-03 is for the pile cap at Gridlines C/3.

Sheet SSK20200107-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4”). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4” above the bottom of pile cap elevation. This is the basis for GNA’s notes regarding the application of the detail on SSK20200107-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA's review and approval.
SECTION

SCALE 1" = 1' - 0"

NOTES

1. SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS.
SEE SSK 20200107-02 FOR REVISED GRADE BEAM DESIGN AT GRIDLINES B/3.

GNA NOTE: AS-BUILT T/PILE ELEVATION BELOW DESIGN ELEVATION. APPLY DETAIL ON SHEET SSK20020107-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF THIS PILE.

GNA NOTE: AS-BUILT T/PILE ELEVATION BELOW DESIGN ELEVATION. APPLY DETAIL ON SHEET SSK20020107-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF THIS PILE.

GNA NOTE: AS-BUILT T/PILE ELEVATION BELOW DESIGN ELEVATION. APPLY DETAIL ON SHEET SSK20020107-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF THIS PILE.

GNA NOTE: AS-BUILT T/PILE ELEVATION BELOW DESIGN ELEVATION. APPLY DETAIL ON SHEET SSK20020107-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF THIS PILE.

** PC1 [+0’-4”] 3

PILE AS-BUILT LOCATION

LEGEND
NOTES
1 REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP B/3 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 20 DECEMBER 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES B/3
2 REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

1 PLAN SECTION
SCALE 3/8" = 1' - 0"

NOTES
1 PILE DOWELS NOT SHOWN FOR CLARITY
2 T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29
PRELIMINARY

SURVEYOR NOTES:
1. AS-BUILT DRAWING WAS CREATED FROM ACTUAL FIELD SURVEYS COMPLETED ON 12-16-19.
2. ALL HORIZONTAL INFORMATION SHOWN IS BASED ON PROJECT CONTROL OF THE NEW INTERNATIONAL AFRICAN AMERICAN MUSEUM.
3. NO BOUNDARY WORK WAS DONE TO CONFIRM OR VERIFY ANY BOUNDARY LINES.

** PC1
[+0’-4’]

GNA NOTE: AS-BUILT SURVEY INFORMATION RECEIVED FROM T/B DATED 17 DECEMBER 2019. SEE SSK 20200107-03 FOR REVISED GRADE BEAM DESIGN AT GRIDLINES C/3.

GNA NOTE: AS-BUILT T/PILE ELEVATIONS BELOW DESIGN ELEVATIONS AT ALL PILE LOCATIONS SHOWN ON THIS SHEET. APPLY DETAIL ON SHEET SSK20020107-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF ALL PILES.
NOTES

1. REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP C/3 BY CES ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 17 DECEMBER 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES C/3

2. ADDITIONAL STANDARD BAR HOOK T&B SEE NOTE 3 TYP

3. ADDITIONAL #8 T&B FOR HOOK OF PERP BARS TYP

PLAN SECTION

SCALE 3/8" = 1'-0"

NOTES

1. PILE DOWELS NOT SHOWN FOR CLARITY

2. T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

SECTION

SCALE 3/8" = 1'-0"

NOTES

1. PILE DOWELS NOT SHOWN FOR CLARITY

2. T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

SSK20200107-03

© 2020 Guy Nordenson and Associates LLP
Pile Cap Redesign C3 & B3

TO: Bernard Costantino (Moody Nolan)
    Julie Cook, AIA (Moody Nolan)
FROM: Bobby Teachey II (Brownstone)
      5150 trump st, Unit 1602
      Charleston, South Carolina 29425
DATE INITIATED: 12/20/2019
LOCATION: Project: 190795 - IAAM
PROJECT STAGE: 14 Wharfside Street
SUB JOB: Charleston, 29401
COST IMPACT: TBD
DRAWING NUMBER: TBD
LINKED DRAWINGS: TBD

RECEIVED FROM:

COPY TO:
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan),
Arash Hajighasemi (Turner Construction (ATL)),
David Himelman (Guy Nordenson and Associates),
Jonathan Roberts (Cumming),
Leonard Spears (ARUP),
Stephanie Terault (ARUP),
Xiaoxiao Wu (Guy Nordenson and Associates)

Question from Bobby Teachey II (Brownstone) at 04:39 PM on 12/20/2019

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbuilts need to be redesigned. Per conversation:

From: Costantino, Bernard
Sent: Friday, December 13, 2019, 10:25 PM
To: 'Bri'Shae Anderson (bdanderson@tcco.com); Bobby Teachey
Cc: Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL);
Xiaoxiao Wu; David Himelman; Cook, Julie; Costantino, Bernard
Subject: Pile Cap Redesign

As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of:
Batch #1: A9, B9 C9
Batch #2: B8, C8
Batch #3: B7, C7
Batch #4: B5, B6

To facilitate and document submission of the redesign, please issue individual RFI's for each batch. GNA will respond to the RFI's with the redesign. If you have questions, please call.

Best,

BERNARD COSTANTINO
FAIA, NCARB, LEED AP
ARCHITECT
O 614.461.4664
D 614.280.8992
C 614.774.8957
300 SPRUCE ST, STE 300, COLUMBUS, OH 43215
MOODYNOLAN.COM

Attachments:
7285 - IAAM As-Built_B3.pdf
7285 - IAAM As-Built_C3.pdf

Awaiting an Official Response

All Replies:

GNA Response 1/17/2020:

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 23 December 2019. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines A/3.

Sheet SSK20200117-02 is for the pile cap at Gridlines A/3

Sheet SSK20200117-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4”). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4” above the bottom of pile cap elevation. This is the basis for GNA’s notes regarding the application of the detail on SSK20200117-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA’s review and approval.

See GNA original response to RFI 90 dated 7 January 2020 for additional information for pile cap redesign at Gridlines B/3 and C/3.

D HIMELMAN
1/17/2020

BY DATE COPIES TO

TC Co Atl/Car
Page 1 of 1
Printed On: 12/20/2019 04:39 PM
SECTION

SCALE 1" = 1'-0"

NOTES

1. SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS.
**Preliminary**

**Survey Notes:**

1. AS-BUILT DRAWING WAS CREATED FROM ACTUAL FIELD SURVEYS COMPLETED ON 12-19-19.
2. ALL HORIZONTAL INFORMATION SHOWN IS BASED ON PROJECT CONTROL OF THE NEW INTERNATIONAL AFRICAN AMERICAN MUSEUM.
3. NO BOUNDARY WORK WAS DONE TO CONFIRM OR VERIFY ANY BOUNDARY LINES.

*Bracketed value reflects difference between the field computed elevation (provided by Rika Lovelace of Turner, respective to each pile cap)** and the top of pile as-built elevation.


SEE SSK 20200117-02 FOR REVISED PILE CAP DESIGN AT GRIDLINES A/3.
NOTES

1 REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP A/3 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 23 DECEMBER 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES A/3

2 TYP

3" CLR

3" CLR

3" CLR

WP

OUTLINE OF REDESIGNED PILE CAP

AS-DESIGNED PILE CAP PC5

REINFORCING SEE NOTE 2 TYP

PLAN SECTION

SCALE 3/8" = 1' - 0"

SECTION

SCALE 3/8" = 1' - 0"

NOTES

1 PILE DOWELS NOT SHOWN FOR CLARITY

2 T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

3" CLEAR

3" CLEAR

3" CLEAR

10'-9 1/2" 5'-4 3/4" 5'-4 3/4"

17 January 2020

International African American Museum
Redesigned Pile Cap PC5 at Gridline A/3
Scale 3/8" = 1'-0"
17 January 2020

© 2020 Guy Nordenson and Associates LLP
Question from Bobby Teachey II (Brownstone) at 04:40 PM on 12/20/2019

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 as built need to be redesigned. Per conversation:
From: Costantino, Bernard Sent: Friday, December 13, 2019, 10:25 PM To: Bri'Shae Anderson (bdanderson@tcco.com); Bobby Teachey Cc: Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaoxiao Wu; David Himelman; Cook, Julie; Costantino, Bernard Subject: Pile Cap Redesign As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch #3: B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFI's for each batch. GNA will respond to the RFI's with the redesign. If you have questions, please call. Best, BERNARD COSTANTINO FAIA, NCARB, LEED AP 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215 MOODYNOLAN.COM

Attachments:
7285 - IAAM As-Built C2.pdf

Awaiting an Official Response

All Replies:

GNA Response:

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 17 December 2019. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines C/2.

Sheet SSK20200108-02 is for the pile cap at Gridlines C/2

Sheet SSK20200108-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4"). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4" above the bottom of pile cap elevation. This is the basis for GNA's notes regarding the application of the detail on SSK20200108-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA's review and approval.
SECTION
SCALE 1" = 1'-0"

NOTES

1
SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS
GNA NOTE: AS-BUILT SURVEY INFORMATION RECEIVED FROM T/B DATED 17 DECEMBER 2019. SEE SSK 20020108-02 FOR REVISED PILE CAP DESIGN AT GRIDLINES C/2.

** PC3

**Bracketed value reflects difference between the field computed elevation (provided by Nick Loveless of Turner, respective to each pile cap**) and the top of pile as-built elevation.

GNA NOTE: AS-BUILT T/PILE ELEVATION BELOW DESIGN ELEVATION. APPLY DETAIL ON SHEET SSK20020108-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF THIS PILE.

GNA NOTE: PILE ELEVATION SURVEY INFO MISSING. APPLY DETAIL ON SHEET SSK20020108-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF THIS PILE IF AS-BUILT T/PILE ELEVATION IS BELOW DESIGN ELEVATION.
NOTES
1 REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP C/2 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 17 DECEMBER 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES C/2
2 REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO
3 ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC3 REINFORCING PER SCHEDULE S-500.

PLAN SECTION
SCALE 3/8" = 1'-0"

SECTION
SCALE 3/8" = 1'-0"

1 PILE DOWELS NOT SHOWN FOR CLARITY
2 T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

ADDITIONAL STANDARD BAR HOOK T&B SEE NOTE 3 TYP
ADDITIONAL #8 T&B FOR HOOK OF PER BARS TYP

PILE DOWELS NOT SHOWN FOR CLARITY
T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29
Pile Cap Redesign B2

TO: Bernard Costantino (Moody Nolan) (Response Required)  FROM: Bobby Teachey II (Brownstone)
DATE INITIATED: 01/08/2020  5150 Trump St, Unit 1602
LOCATION:  Charleston, South Carolina 29425
PROJECT STAGE: OPEN
SUB JOB:  DUE DATE: 01/13/2020
COST IMPACT: TBD  COST CODE: TBD
SCHEDULE IMPACT: TBD  SPEC SECTION: TBD
REFERENCE: TBD

RECEIVED FROM: Chris Hewitt (Donley Inc)

COPIES TO:
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Leonard Spears (ARUP), Stephanie Terault (ARUP), Xiaoxiao Wu (Guy Nordenson and Associates)

Question from Bobby Teachey II (Brownstone) at 03:04 PM on 01/08/2020

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 as built need to be redesigned. Per conversation:
From: Costantino, Bernard
Sent: Friday, December 13, 2019, 10:25 PM
To: ‘Bri’Shae Anderson (bianderson@tcco.com), Bobby Teachey (bteachey@bstonegroup.com), Lewis, Walter - (CAR) (wlew@tcco.com), Larriner, Bob (bLarriner@moodynolan.com), Xiaoxiao Wu (xw@nordenson.com), David Himelman (dh@nordenson.com), Beibei (Eva) Zhao (bz@nordenson.com), Pardine Daron (dpardine@tcco.com), Nash Alex (nash@tcco.com), Lewis, Walter - (CAR) (wlew@tcco.com), Roberts Jonathan (jonathan.roberts@ccorpusa.com), Robert H. Faust (bfaust@ccorpusa.com), Anderson, Bri’Shae D - (CAR) (bdanderson@tcco.com)

Subject: RE: IAAM Priority Order - T-B Confirmation

Here is an update on schedules of priority tasks from GNA. Updates are in red.

SCHEDULE

Task 1:
Batch #5 - 1/2/2020 – returned 1/3
Batch #6 - 1/3/2020
Batch #7 - 1/7/2020
Batch #8 - 1/9/2020

Task 2: RFI #69 on 1/6/2020 – Shear wall shops to be resubmitted after this response.
NOTE: waiting on Elevator opening information from T-B to finalize this task need by EOD today to maintain schedule.
NOTE: Shear wall submittals need to be revised to address confirmed openings in RFI #069.

Task 3: Bulletin #5 – (RFI #53 and 76 – steel modifications) - 1/8/2020

Task 4: TBD after Task 3.
Steel Shop Drawings
- 1/9/2020 051200-19 Steel shop and erection SEQ 1-8
- 1/13/2020 051200-20 Steel shop and erection SEQ 9-11
- 1/20/2020 051200-21 Steel shop and erection SEQ 12-14
• 1/27/2020 051200-22 Steel shop and erection SEQ 15-16

Can T-B please provide a BIM coordination schedule to the design team.

Thanks-

JULIE M. COOK
AIA, LEED AP
ASSOCIATE PRINCIPAL
ARCHITECT

O 614.461.4664  D 614.280.1492  C 614.937.9038
300 SPRUCE ST, STE 300, COLUMBUS, OH 43215

MOODYNOLAN.COM

Attachments:
7285 - IAAM As-Built_B2.pdf

Awaiting an Official Response

All Replies:

GNA Response:

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 08 January 2020. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines B/2.

Sheet SSK20200113-02 is for the pile cap at Gridlines B/2

Sheet SSK20200113-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4"). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4" above the bottom of pile cap elevation. This is the basis for GNA's notes regarding the application of the detail on SSK20200113-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA's review and approval.
SECTION

SCALE 1" = 1' - 0"

NOTES

1 SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS
PRELIMINARY

SURVEYOR NOTES:
1. AS-BUILT DRAWING WAS CREATED FROM ACTUAL FIELD SURVEYS COMPLETED ON 12-23-19.
2. ALL HORIZONTAL INFORMATION SHOWN IS BASED ON PROJECT CONTROL OF THE NEW INTERNATIONAL AFRICAN AMERICAN MUSEUM.
3. NO BOUNDARY WORK WAS DONE TO CONFIRM OR VERIFY ANY BOUNDARY LINES.

**PC3
[+0'-4"]

*Bracketed value reflects difference between the field computed elevation (provided by Ricks Lovelace of Turner, respective to each pile cap** and the top of pile as-built elevation.

LEGEND

X PILE AS-BUILT LOCATION

GNA NOTE: AS-BUILT SURVEY INFORMATION RECEIVED FROM TBM DATED 08 JANUARY 2020.
SEE SSN 20200113-02 FOR REVISED PILE CAP DESIGN AT GRIDLINES B2.
**PLAN SECTION**

**SCALE 3/8" = 1' - 0"**

**NOTES**

1. REFER TO 7285-IAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP B/2 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 8 JANUARY 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES B/2

2. REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3. ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC3 REINFORCING PER SCHEDULE S-500.

---

**SECTION**

**SCALE 3/8" = 1' - 0"**

**NOTES**

1. PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

2. PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/6/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 22R
Contract: Construction

Description of work to be performed: Pile Cap Modifications @ Column A-9, B-8, B-9, C-8 and C-9
This is a request to access the Construction Contingency to cover design modification (Added rebar and concrete in the pile caps) to accommodate the piles that were installed out of tolerance due to unforeseen debris encountered during installation. This caused the piles to be offset from their anticipated final location.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $21,179.00

Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 6, 2021

-approved-

Rick Ho, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

(Circle One) (YES) (Circle One) (YES) (Circle One) (YES) (Circle One)
COR #: 22R

TURNER BROWNSTONE
14 Wharf Street
Charleston, SC

To: Edmund Most
City of Charleston

Re: Internation African American Muesum

Pile Cap Redesign CL 8 and CL 9

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Work Description:
Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install additional rebar for revised rebar cap design. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:
Owner Directive
Code / Regulatory
Unforeseen Condition
Design Issue

Pricing:
ROM Estimate of GR’s & Insurances
ROM Estimate for Entire PCO
Lump Sum or Firm Fixed Unit Pricing

Time Impact:
Evaluating Potential for Time Impact
Evaluated - NO TIME IMPACT
Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

X Work has been Completed
Work Has Commenced &/or is Ongoing

Submitted By: Contractor: TURNER BROWNSTONE

Walter Lewis Project Engineer 09/08/2020

Requested Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Authorized Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated / /

Approved By: Owner: City of Charleston

Edmund Most

Dated / /

Amount Requested $21,179

Amount Approved $21,179
# Internation African American Muesum
## General Summary of the Estimate

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<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<td>A9</td>
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<td>Overhead and Profit</td>
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**SUBTOTAL** | **$19,490**

**ESTIMATE TOTAL** | **$21,179**
**GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)**

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**TRADE DIRECTS**

**DESCRIPTION**

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Revised per TurnerBrownstone and Cumming Agreement

Per Take off and Review with Cumming.
TCCo and subcontractor agrees to total cost for COR 19, 21, 22, and 24.

Total Cost of work submitted

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<td>COR 24</td>
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64,495.00 74,940.00

This includes all cost associated with the Pile Caps.
No further cost than highlight above will be submitted.
To: Bobby Teachey & Walt Lewis
12/20/2019 - Revised 1/28/20
COR #: 12A
Title: Pile Cap Enlargement Due to Mis-driven Piles

Schedule Impact: 9 days contingent on re-mobilizing 1/6/20 and material fabrication & delivery by 1/7/20

Agent: Donley's Concrete Group

This COR is for revision to pile caps A-9, B-8, B-9, C-8 and C-9. Piles within the foundation were driven out of tolerance both horizontally and vertically; therefore, the SEOR enlarged pile caps and added rebar to account for the as-built locations of the piles. This COR is for the additional materials and labor to modify the pile caps to the new design as given in response to RFI 077 dated 12/16/19.

Note:
The original COR was split into parts A and B at the request of Turner Brownstone. This is part A which accounts for the direct costs of labor and material associated with the change. Part B accounts for schedule impacts due to mobilization/demobilization and lost time for management employees.

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<th>Materials</th>
<th>Qty</th>
<th>Unit</th>
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<th>EQ $/UM</th>
<th>Mat $/UM</th>
<th>SUB $/UM</th>
<th>Labor</th>
<th>EQ</th>
<th>Mat</th>
<th>SUB</th>
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| Equipment                        |     |      |            |         |          |          |        |       |        |        |
| Small Tools                      | 1.0 | EA   | $ - $     | - $     | $ 500    | $ -      | $ -    | $ -   | $ 500  | $ -    |

| Labor                            |     |      |            |         |          |          |        |       |        |        |
| Carpenter (For overdriven pile detail) | 34  | HRS  | $ 54 $    | - $     | - $     | - $     | $ 1,836| -     | -      | -      |
| Rodbuster (unload & Install additional rebar) | 38  | HRS  | $ - $     | - $     | - $     | - $     | $ 456  | -     | -      | -      |
| Foreman                          | 8   | HRS  | $ 57 $    | - $     | - $     | - $     | $ 776  | -     | -      | -      |
| Superintendent                   | 8   | HRS  | $ 97 $    | - $     | - $     | - $     | $ 1,044| -     | -      | -      |
| Project Manager (Analyzing Pile Cap Changes) | 12  | HRS  | $ 87 $    | - $     | - $     | - $     | -      | -     | -      | -      |

Subtotal $ 4,112 $ - $ 1,617 $ 5,500
Burden INCL $ - $ - $ - $ -
Tax $ - $ - $ 146 $ 495
SDI $ - $ - $ - $ 687
Service Dep. $ - $ - $ 123 $ -
Bond $ - $ - $ 41 $ 50
GL Insurance $ - $ - $ - $ -
OH/Profit $ - $ - $ 287 $ 1,111
Item Totals $ 4,276 $ - $ 2,046 $ 7,748

Totals $ 14,070

Submitted by: Chris Hewitt, Project Manager
Donley's Concrete Group

Revised CO Amount per agreement with Cumming and TCCO.

Revised COR TOTAL
13,385
To: Bobby Teachey & Walt Lewis  
12/20/2019 - Revised 1/28/20  
COR #: 12B  
Title: Pile Cap Enlargement Due to Mis-driven Piles

Schedule Impact: 9 days contingent on re-mobilizing  
1/6/20 and material fabrication & delivery by 1/7/20

This COR is for revision to pile caps A-9, B-8, B-9, C-8 and C-9. Piles within the foundation were driven out of tolerance both horizontally and vertically; therefore, the SEOR enlarged pile caps and added rebar to account for the as-built locations of the piles. This COR is for the additional materials and labor to modify the pile caps to the new design as given in response to RFI 077 dated 12/16/19.

Note:  
The original COR was split into parts A and B at the request of Turner Brownstone. Part A accounts for the direct costs of labor and material associated with the change. This is Part B which accounts for schedule impacts due to mobilization/demobilization and lost time for management employees.

---

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<thead>
<tr>
<th>Materials</th>
<th>Qty.</th>
<th>Unit</th>
<th>Labor $/UM</th>
<th>EQ $/UM</th>
<th>Mat $/UM</th>
<th>SUB $/UM</th>
<th>Labor</th>
<th>EQ</th>
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| Labor                      |      |      |            |         |          |          |       |    |     |     |
| Carpenter (schedule impact) | 40   | HRS  | $          | 54      | $        | $        | $     | $  | $   | $   |
| Field Engineer (schedule impact) | 8  | HRS  | $          | 77      | $        | $        | $     | $  | $   | $   |
| Foreman (schedule impact)   | 8    | HRS  | $          | 57      | $        | $        | $     | $  | $   | $   |
| Superintendent (schedule impact) | 104| HRS  | $          | 97      | $        | $        | $     | $  | $   | $   |
| Project Manager (schedule impact) | 104| HRS  | $          | 87      | $        | $        | $     | $  | $   | $   |

Subtotal  $ 22,368  $ 4,040  $   $   
Burden     INCL  $       $      $     
Tax        $       $ 364   $      $     
SDI         $       $      $      $     
Service Dep. $       $ 671   $ 202  $     
Bond        $       $ 224   $ 40   $     
GL Insurance $       $      $      $     
OH/Profit   $       $      $ 697  $     
Item Totals $ 23,263  $ 5,343 $      $     
Totals      $       $      $      $     

Submitted by: Chris Hewitt, Project Manager  
Donley’s Concrete Group

This CO changes to a total of 6,105.00

Per take off from Cumming the revised COR amount is to be changed to this amount per TCCO and City agreement.
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 79  
Contract: Construction

Change Order Proposal Review Form

Description of work to be performed: Roof Parapet Expansion Joint

This change is associated with the installation and modification of the roof parapet and its expansion joint.

During submittal process the contractor proposed off the shelf products and changed the roof parapet detail to accommodate the new materials. The original drawings called out for a custom built parapet & expansion joint.

Major contributing factor for the change was the need to meet hurricane wind ratings for the parapet coping & expansion joint assembly.

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error

(Indicate Reason for Change Proposal)

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Cost Estimate (Expected to Exceed $10,000)
Pre-Negotiation Position (PNP) X
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $76,599.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:
Consequence of Rejection:
Comments by Supervisor:

(NO) (YES)
(Circle One)

Approved:
Rick Holt, Cumming Corp.

(NO) (YES)
(Circle One)

Robert Faust, Cumming Corp.

(NO) (YES)
(Circle One)

Edmund V. Most, City of Charleston

(NO) (YES)
(Circle One)

Bernard Costantino, Moody Nolan

Decision needed by: February 24, 2022

(NO) (YES)
(Circle One)

Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Provide all required Labor, Materials, Equipment, and Administrative/Support costs to provide changes to change coping design and parapet wall framing. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.**

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [x] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [x] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [x] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has commenced &/or is Ongoing

**Submitted By:**
- **Contractor:** TURNER BROWNSTONE
- **Date:** 11/23/20
- **Amount Requested:** $76,599

**Reviewed By:**
- **Program Manager:** CUMMING

**Approved By:**
- **Owner:** City of Charleston
- **Amount Approved:** $76,599
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<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<td>$845.89</td>
</tr>
<tr>
<td>A10</td>
<td>Builders Risk</td>
<td>@</td>
<td>0.84%</td>
<td>$592.12</td>
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<td>A11</td>
<td>Performance and Payment Bond</td>
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<td>0.00732</td>
<td>$515.99</td>
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<tr>
<td>A12</td>
<td>Procore</td>
<td>@</td>
<td>0.04500%</td>
<td>$31.72</td>
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<tr>
<td>A13</td>
<td>Overhead and Profit</td>
<td>@</td>
<td>3.25%</td>
<td>$2,394.85</td>
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ESTIMATE TOTAL $76,599
<table>
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<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td></td>
<td></td>
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<td>$0</td>
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<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
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<tr>
<td>TRADE DIRECTS</td>
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<td>DESCRIPTION</td>
<td></td>
<td></td>
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<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>1 Added roof parapet expansion joint detail</td>
<td>$</td>
<td>70,491.00</td>
<td>1</td>
<td>LS</td>
<td>$70,491.00</td>
<td></td>
</tr>
<tr>
<td>2 Back Up attached</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td>$70,491</td>
<td></td>
<td></td>
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<tr>
<td>DIRECT WORK SUBTOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$70,491</td>
<td></td>
</tr>
</tbody>
</table>
CHANGE ORDER REQUEST

PROJECT: (Name & address)  
International African American Museum (IAAM)
14 Wharfside Street
Charleston, SC 29401

OWNER: (of record)  
City of Charleston, SC

Job # 19-39

ARCHITECT: (of record)  
Moody Nolan, Inc.

DATE: 9/24/2020

ARCHITECT'S PROJECT #:  

CONTRACTOR: (of record)  
Turner Construction Company

TO CONTRACTOR: (Name & address)  
Turner Construction Company
170 Meeting Street, Suite 312
Charleston, SC 29401

CONTRACT DATE:  
11/5/2019

CONTRACT FOR:  
Roofing

PROJECT NUMBER:  
190795

The Contract is changed as follows:
(Include, where applicable, any undisputed amount attributable to previously executed Construction Change Directives)

   * Added backer rod
   * Added cradle & compressible, unfaced fiberglass insulation
   * Added vertical backer rod EJ detail (54) locations (23-S | 23-N | 4-E | 4-W) in Section Detail A-A, 6/16/2020

DOES NOT INCLUDE - The Foam Seal (IMPRO 1200 Series) shown in Section Detail B-B

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>The original (Contract Sum) was</td>
<td>$4,000,000.00</td>
</tr>
<tr>
<td>The net change by previously authorized Change Orders</td>
<td>$4,000,000.00</td>
</tr>
<tr>
<td>The (Contract Sum) prior to this Change order was</td>
<td>$4,000,000.00</td>
</tr>
<tr>
<td>The (Contract Sum) will be (increased)</td>
<td>$7,049,100.00</td>
</tr>
<tr>
<td>by the Change Order in the amount of</td>
<td>$1,069,491.00</td>
</tr>
<tr>
<td>The new (Contract Sum) including this Change Order will be</td>
<td></td>
</tr>
<tr>
<td>The Contract Time will be (increased) by( 0 ) days</td>
<td></td>
</tr>
<tr>
<td>The date of Substantial Completion as of the date of this Change Order therefore is</td>
<td>0/0/2019</td>
</tr>
</tbody>
</table>

(Note: This Change Order does not include changes in the Contract Sum, Contract Time, or Guaranteed Maximum Price which has been authorized by Construction Change Order Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive)

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER

ARCHITECT (Firm name)  
Turner Construction Company

CONTRACTOR (Firm name)  
Nations Roof of Carolina, LLC

ADDRESS  
1859 Lindbergh Street, Suite 500  
Charlotte, North Carolina 28208

BY (signature)  

ADDRESS  
1859 Lindbergh Street, Suite 500  
Charlotte, North Carolina 28208

BY (signature)  

Steven A. Miller, Exe.VP  

(Typed name)  

September 9, 2020

(DATE)
**RCO Breakdown**

**DATE:** 09/24/20  
**updated** 9/25/2020

**PROJECT:** International African American Museum (IAAM)

**CHANGE REQUEST #:** 05

**NRNC JOB #:** 19-39

**Scope**
- Revisions to drawing A-705-5 (contracted detail) & current detail (based on New Option 2 dated 6/8/2020)
- Added backer rod
- Added cradle & compressible, unfaced fiberglass insulation
- Added vertical backer rod EJ detail (54) locations (23-S | 23-N | 4-E | 4-W) in Section Detail A-A, 6/16/2020

**DOES NOT INCLUDE - The Foam Seal (IMPRO 1200 Series) shown in Section Detail B-B**

**COST BREAKDOWN:**

<table>
<thead>
<tr>
<th>I.</th>
<th>Materials:</th>
<th>Units:</th>
<th>Quantity:</th>
<th>$/Unit:</th>
<th>Subtotal:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Parapet Detail</strong></td>
<td>Backer rod</td>
<td>LF</td>
<td>1,030</td>
<td>$3.25</td>
<td>$3,347.50</td>
</tr>
<tr>
<td>ADD</td>
<td>unfaced fiberglass</td>
<td>LF</td>
<td>1,030</td>
<td>$2.25</td>
<td>$2,317.50</td>
</tr>
<tr>
<td>ADD</td>
<td>WHITE EPDM cradle - 24 &quot; wide</td>
<td>LF</td>
<td>1,030</td>
<td>$1.80</td>
<td>$1,854.00</td>
</tr>
<tr>
<td>ADD</td>
<td>WHITE EPDM 12&quot; SA cover tape (50'/roll)</td>
<td>rolls</td>
<td>21</td>
<td>406.50</td>
<td>$8,536.50</td>
</tr>
<tr>
<td>ADD</td>
<td>EPDM SA primer (3gal/pail)</td>
<td>pails</td>
<td>4</td>
<td>176.74</td>
<td>$706.96</td>
</tr>
<tr>
<td>ADD</td>
<td>WHITE EPDM Lap Sealant (25 tubes/case)</td>
<td>cases</td>
<td>3</td>
<td>335.00</td>
<td>$1,005.00</td>
</tr>
<tr>
<td>ADD</td>
<td>EPDM Splice Wash (5gal)</td>
<td>pails</td>
<td>5</td>
<td>146.58</td>
<td>$732.90</td>
</tr>
<tr>
<td>ADD</td>
<td>EPDM Splice Adhesive (1gal)</td>
<td>cans</td>
<td>5</td>
<td>77.54</td>
<td>$387.70</td>
</tr>
<tr>
<td>ADD</td>
<td>EPDM Bond Adhesive (5gal)</td>
<td>pails</td>
<td>5</td>
<td>178.00</td>
<td>$890.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II.</th>
<th><strong>Parapet EJ Details</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADD Backer rod (54 locations@5'/location)</td>
<td>LF</td>
<td>270</td>
<td>$3.25</td>
<td>$877.50</td>
<td></td>
</tr>
<tr>
<td>ADD</td>
<td>EPDM 12&quot; SA cover tape (50'/roll)</td>
<td>rolls</td>
<td>6</td>
<td>406.50</td>
<td>$2,439.00</td>
</tr>
<tr>
<td>ADD</td>
<td><em>EPDM supplies included in quantities above</em></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ADD</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ADD</td>
<td>Misc. fasteners, butyl tapes, etc.</td>
<td>lot</td>
<td>1</td>
<td>200.00</td>
<td>$200.00</td>
</tr>
<tr>
<td>ADD</td>
<td>Shop supplies</td>
<td>lot</td>
<td>3</td>
<td>75.00</td>
<td>$225.00</td>
</tr>
</tbody>
</table>

| **Subtotal MATERIALS** | $23,519.56 |

<table>
<thead>
<tr>
<th>II.</th>
<th><strong>Parapet EJ Details</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADD Installer labor to install EJ</td>
<td>2m</td>
<td>5LF/hr</td>
<td>412</td>
<td>$55.00</td>
<td>$22,660.00</td>
</tr>
</tbody>
</table>

| **Parapet EJ Details** | Installer labor to install vertical Ejs | 2m|2h|each | 216 | $55.00 | $11,880.00 |
|------------------------|-----------------------------------------|--------|-----------|---------|-----------|
| ADD Supervision | QC | Safety | 2m|2h|each | 30 | $85.00 | $2,550.00 |

| **Subtotal LABOR** | $37,090.00 |

<table>
<thead>
<tr>
<th>III.</th>
<th><strong>Third Party Rentals</strong> (Equipment</th>
<th>Supplier</th>
<th>Sub)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hotel expenses (2man/room)</strong></td>
<td>-</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td><strong>Peridium expenses</strong></td>
<td>32.90</td>
<td>$80.00</td>
<td>$2,632.00</td>
</tr>
<tr>
<td>66</td>
<td>$25.00</td>
<td>$1,645.00</td>
<td></td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

| **Subtotal 3rd PARTY** | $4,277.00 |

<table>
<thead>
<tr>
<th><strong>SUMMARY:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subtotal MATERIALS</strong></td>
<td>$23,519.56</td>
</tr>
<tr>
<td>6.10%</td>
<td>SC Sales taxes</td>
</tr>
<tr>
<td>15.00%</td>
<td>-up on MATERIALS</td>
</tr>
</tbody>
</table>

**Manhours:** 658

**$/Unit:** $55.00

**Subtotal:** $37,090.00

**Quantity:**

- 32.90 | $80.00 | $2,632.00
- 66 | $25.00 | $1,645.00
- - | - | -

**$/Unit:**

- - | - |

**Subtotal 3rd PARTY:** $4,277.00

**Subtotal MATERIALS:** $23,519.56

**6.10% | SC Sales taxes:** $1,434.69

**15.00% | -up on MATERIALS:** $3,527.93
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Subtotal LABOR</td>
<td>$37,090.00</td>
</tr>
<tr>
<td>Subtotal 3rd PARTY</td>
<td>$4,277.00</td>
</tr>
<tr>
<td>15.00% mark-up on 3rd Party</td>
<td>$641.55</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$70,490.74</strong></td>
</tr>
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</table>

**Total cost change this request**.............................. **$70,491.00**
NOTE (NORTH AND SOUTH WALL):
TYPICAL:
EXPANSION JOINT AT STUD WALL AND AT COPING CAP = 2"
EXCEPTION:
IN THE MIDDLE OF STRUCTURAL AXIS 5 AND 6:
EXPANSION JOINT AT STUD WALL AND AT COPING CAP = 3 1/2"
NOTE (NORTH AND SOUTH WALL):

TYPICAL:
EXPANSION JOINT AT STUD WALL AND AT COPING CAP = 2"

EXCEPTION:
IN THE MIDDLE OF STRUCTURAL AXIS 5 AND 6:
EXPANSION JOINT AT STUD WALL AND AT COPING CAP = 3 1/2"

ELEVATION 2 (NORTH/SOUTH WALL PARAPET: ROOF SIDE FACE)

ELEVATION 3: FORMED COPING CAP - LENGTH (MODULE) - NORTH / SOUTH WALL
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 80R
Contract: Construction

Description of work to be performed: Window Shade Adds & Deletions per ASI 28
This change is associated with the material and labor to remove 4 manual shades on level 3
Add 1 W3 Shade and add the electrical conduit and junction boxes for 4x W1 motorized shades
All of the work coordinated for this COR has been issued through ASI 28 and the shades submittal

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $19,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $5,407.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved:

Mike Risteski, Cumming Corp.

Rick Holl, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costanzo, City of Charleston

Bernard Costanzo, City of Charleston

Approved by Bernard

E-mail: bernard.costanzo@charleston.gov

Phone: 843-724-7349

Fax: 843-724-7718

City of Charleston
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to provide changes to change window shades additions and deletions per ASI 028 and revised per the comments in Submittal 12 24 13-2.1. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:
- Owner Directive
- Code / Regulatory
- Unforeseen Condition
- Design Issue

Pricing:
- ROM Estimate of GR’s & Insurances
- ROM Estimate for Entire PCO
- Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
- Evaluating Potential for Time Impact
- Evaluated - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Work has been Completed

Contractor: TURNER BROWNSTONE

Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed

Submitted By: Walter Lewis  Project Engineer

Amount Requested: $5,407

Reviewed By: Program Manager: CUMMING

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed

Approved By: Owner: City of Charleston

Amount Approved: $5,407
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td></td>
<td></td>
<td></td>
<td>$0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRADE DIRECTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Added (4) W1 Mechanical Shades, (1) W3 Shade, Added (1) &amp; Removed (4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Manual Shades on Level 3</td>
<td>$ (770.00)</td>
<td>1</td>
<td>LS</td>
<td>-$770.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALLOWANCE: Added Electrical conduit and junction box for &quot;future shades&quot; for</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4) W1 Shades</td>
<td>$ 5,746.00</td>
<td>1</td>
<td>LS</td>
<td>$5,746.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Back Up attached</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

$4,976

DIRECT WORK SUBTOTAL $4,976
## General Summary of the Estimate

**International African American Museum**

### Item #

<table>
<thead>
<tr>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
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</table>

### Subtotal Trade Directs

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>A4</td>
<td></td>
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<td>$4,976</td>
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### Subtotal Trade Directs $4,976

### Subtotal

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<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.45%</td>
<td>$121.91</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
<td>$59.71</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>$41.80</td>
</tr>
<tr>
<td>A14</td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
<td>$36.42</td>
</tr>
<tr>
<td>A11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>@ 0.04500%</td>
<td>$2.24</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
<td>$169.05</td>
</tr>
</tbody>
</table>

### Estimate Total $5,407
Window Roller Shades SD REV 1

SPEC SECTION: 12 24 13 - Window Roller Shades
CREATED BY:

STATUS: Open
DATE CREATED: 01/22/2021

ISSUE DATE: 01/22/2021
REVISION:

RESPONSIBLE CONTRACTOR: DCO Commercial Floors
RECEIVED FROM: Dave Newman

RECEIVED DATE: 03/22/2021
SUBMIT BY: //</br>

FINAL DUE DATE: 04/05/2021
LOCATION:

TYPE: Shop Drawing
COST CODE:

APPROVERS: Sarah Lippai (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)

BALL IN COURT:
Sarah Lippai (Turner Construction (CAR))

DISTRIBUTION:
Brit'Shae Anderson (Turner Construction (CAR)), Walter Lewis (Turner Construction (CAR)), Bobby Teachey II (Brownstone)

DESCRIPTION:
B. Shop Drawings'n1. Show location and extent of roller shades.'n2. Include elevations, sections, details and dimensions.'n3. Show installation details, mountings, attachment to other work, operational'nclearances and relationship to adjoining work.'n4. Complete wiring diagrams including connection details for all components'nsupplied by this section for installation and connection by Division 26.

ATTACHMENTS:

SUBMITTAL WORKFLOW

<table>
<thead>
<tr>
<th>#</th>
<th>NAME</th>
<th>SUBMITTER/ APPROVER</th>
<th>SENT DATE</th>
<th>DUE DATE</th>
<th>RETURNED DATE</th>
<th>RESPONSE</th>
<th>ATTACHMENTS</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>1</td>
<td>Dave Newman</td>
<td>Submitter</td>
<td>3/22/2021</td>
<td>2/5/2021</td>
<td>3/22/2021</td>
<td>Submitted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Sarah Lippai</td>
<td>Approver</td>
<td>3/22/2021</td>
<td>3/22/2021</td>
<td></td>
<td>Pending</td>
<td></td>
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<tr>
<td>3</td>
<td>Julie Cook, AIA</td>
<td>Approver</td>
<td>4/5/2021</td>
<td></td>
<td></td>
<td>Pending</td>
<td></td>
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<tr>
<td>4</td>
<td>Bernard Costantino</td>
<td>Approver</td>
<td>4/5/2021</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

DELETE W1 ROLLER SHADES AND EXTEND GWB CEILING TO DOOR FRAME. PROVIDE BLOCKING FOR POSSIBLE FUTURE SURFACE MOUNTED SHADE AND JUNCTION BOX FOR POWER.

MOVE DUEL MAGNASHADES AND POCKET TO THE WEST TO AVOID STRUCTURE WHILE MAINTAINING 12'-5" SOFFIT HEIGHT.

PROVIDE REVISED COPY FOR OUR RECORDS
### Client
TURNER CONSTRUCTION  
3495 PIEDMONT RD. NE  
BUILDING 11, SUITE 700  
ATLANTA, GA 30305

### Job Phone
404-504-3700

### Project
INTERNATIONAL AFRICAN MUSEUM  
ASI028  
CHARLESTON, SC  
OUT OF STATE-CONTRACT(6% TAX),

<table>
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<tr>
<th>Area</th>
<th>Style/Item</th>
<th>Color/Desc</th>
<th>Manufacturer</th>
<th>W x L</th>
<th>Qty</th>
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<tbody>
<tr>
<td>LABOR</td>
<td>INSTALL TYPE 1 SHADES</td>
<td></td>
<td></td>
<td>-3.00</td>
<td>EA</td>
</tr>
<tr>
<td>LABOR</td>
<td>INSTALL TYPE 2 SHADES</td>
<td></td>
<td></td>
<td>1.00</td>
<td>EA</td>
</tr>
<tr>
<td>MATERIAL</td>
<td>FURNISH</td>
<td>ADD TYPE 2 SINGLE MANUAL SHADE AT WINDOW IN CONF G213D</td>
<td></td>
<td>1.00</td>
<td>EA</td>
</tr>
<tr>
<td>MATERIAL</td>
<td>FURNISH</td>
<td>DELETE 4 AND ADD 1 TYPE 1 MANUAL SHADE AT LEVEL 3</td>
<td></td>
<td>-3.00</td>
<td>EA</td>
</tr>
</tbody>
</table>

- **Wiring & Blocking by GC.**
- **This price includes all applicable sales/use tax.**
- **This quote is good for 60 days.**

| Material | $-711.52 |  
| Service  | $-58.32  |  
| Misc Charges | $0.00 |  
| Sales Tax | $0.00 |  
| Misc Tax | $0.00 |  

Total $-769.84
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

SCOPE OF WORK:

Revision 1: removes wiring, control breakers and terminations for shades.
Includes conduit raceway rough in and blank junction boxes only.

Pricing per ASI #28.

Inclusions:
(4) 120 volt, 20 amp circuits.
Power and terminations to (4) motorized shades.
(4) new 120 volt, 20 amp single pole breakers.

Exclusions:
Shade controls, rough in and wiring.
Control devices.
Motorized shade equipment.

Clarifications:
This price does not include motorized shade controls.
Supply panel designation AP-L2A; circuits 61, 13, 58 and 62.
No over time or weekends are included.
Power supplies to junction box at right side of shade packet.
Terminations after shades are installed.

Lead Times:
No lead times longer than one week.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 2 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_20>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; CONDUIT - EMT</td>
<td>548</td>
<td>848.19</td>
<td>27.40</td>
</tr>
<tr>
<td>3/4&quot; CONN COMP STL - EMT</td>
<td>8</td>
<td>29.43</td>
<td>1.12</td>
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</table>

ORIGINAL
### PROPOSED CHANGE ORDER

<table>
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<tr>
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<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; COUPLING COMP STL - EMT</td>
<td>55</td>
<td>233.50</td>
<td>16.50</td>
</tr>
<tr>
<td>1/2 OR 3/4&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>60</td>
<td>108.07</td>
<td>3.00</td>
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<tr>
<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>4</td>
<td>23.39</td>
<td>0.00</td>
</tr>
<tr>
<td>4x 1 1/2&quot; SQ BOX COMB KO</td>
<td>4</td>
<td>58.76</td>
<td>1.20</td>
</tr>
<tr>
<td>4&quot; SQ BLANK COVER</td>
<td>8</td>
<td>21.85</td>
<td>0.32</td>
</tr>
<tr>
<td>#8x 1/2 WAVER HEAD SELF-TAP STUD SCREW - 12G</td>
<td></td>
<td>0.26</td>
<td>0.40</td>
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**Totals**  
691 | 1,323.47 | 49.94

### Summary

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<th>Description</th>
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<th>Total Mat.</th>
<th>Total Hrs.</th>
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<tr>
<td>General Materials</td>
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<td>1,323.47</td>
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</tr>
<tr>
<td>Material Tax (@ 9.000 %)</td>
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<td>119.11</td>
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<tr>
<td><strong>Material Total</strong></td>
<td></td>
<td>1,442.58</td>
<td></td>
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<tr>
<td>JOURNEYMAN (49.94 Hrs @ $45.00)</td>
<td></td>
<td>2,247.30</td>
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<tr>
<td>FOREMAN (7.49 Hrs @ $50.00)</td>
<td></td>
<td>374.50</td>
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<tr>
<td>SAFETY (1.75 Hrs @ $52.00)</td>
<td></td>
<td>91.00</td>
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<tr>
<td>PM&amp;S (59.18 @ 0.00 @ $6.00 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>355.08</td>
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<td>VDC (59.18 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>59.18</td>
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<tr>
<td>VEHICLES (59.18 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>147.95</td>
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<td>CONSUMABLES (59.18 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>17.75</td>
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<tr>
<td>HEALTH AND HYGEINE (59.18 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>59.18</td>
<td></td>
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<tr>
<td>SCISSOR LIFT - 25' (0.25 @ 1.00 @ $525.00 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>131.25</td>
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**Subtotal**  
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<tr>
<td>Overhead (@ 10.000 %)</td>
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<tr>
<td>Markup (@ 5.000 %)</td>
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**Subtotal**  
5,689.27

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<th>Total Hrs.</th>
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<tr>
<td>Adjustment #1 - Bond (@ 1.000 %)</td>
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<td>56.89</td>
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</table>

**Final Amount**  
$5,746.16

### CONTRACTOR CERTIFICATION

<table>
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<tr>
<th>Name:</th>
<th>Date:</th>
<th>Signature:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>I hereby certify that this quotation is complete and accurate based on the information provided.</td>
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### CLIENT ACCEPTANCE

<table>
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<th>PCO #</th>
<th>Final Amount:</th>
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<tr>
<td>20</td>
<td>$5,746.16</td>
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<table>
<thead>
<tr>
<th>Name:</th>
<th>Date:</th>
<th>Signature:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>I hereby accept this quotation and authorize the contractor to complete the above described work.</td>
</tr>
</tbody>
</table>

ORIGINAL
Description of work to be performed: Buffer Tank Added Steel

This change is associated with the material and labor to provide additional steel for the buffer tanks per RFI 450. The buffer tank location was changed from the original drawings with RFI 166 & Bulletin 10. Unfortunately, the additional steel was not sufficient for the support of the tank size. RFI 450 determined additional steel to be added for the support of the tank.

(Indicate Reason for Change Proposal)

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $18,176.00 Owner Contingency Allow. Bal.
Change Proposal Request from CMR with Detailed Backup

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:

Decision needed by: February 24, 2022

(YES) (NO)
Mike Risteski, Cumming Corp.

(YES) (NO)
Bernard Costantino, Moody Nolan

(YES) (NO)
Edmund V. Most, City of Charleston

(YES) (NO)
Robert Faust, Cumming Corp.

(YES) (NO)
Rick Holt, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to provide materials, labor, and equipment in accordance of RFI #450. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start without signed change order.

| Work Description: | Provide all required Labor, Materials, Equipment, and Administrative/Support costs to provide materials, labor, and equipment in accordance of RFI #450. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start without signed change order. |

|---|---|---|---|---|

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
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<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
<th>Work Authorization is Requested By:</th>
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<table>
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<tr>
<th>Work Has Commenced &amp;/or is Ongoing</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
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<th>Requested Action:</th>
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<th>Do Not Proceed or Price</th>
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<th>Owner:</th>
<th>City of Charleston</th>
<th>$18,176</th>
<th>Amount Approved</th>
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<tr>
<th>Program Manager:</th>
<th>CUMMING</th>
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<table>
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<tr>
<th>Project Engineer:</th>
<th>Walter Lewis</th>
<th>6/10/2021</th>
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<th>Contractor:</th>
<th>TURNER BROWNSTONE</th>
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<th>Price Only</th>
<th>Do Not Proceed or Price</th>
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</table>
## Internation African American Muesum
General Summary of the Estimate

### Item # Description of Work

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's) SELF PERFORMED LABOR</td>
<td>$0</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's) MATERIAL(S) &amp; EQUIPMENT</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$16,719.00</td>
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</tbody>
</table>

|  | SUBTOTAL TRADE DIRECTS | $16,719                  |

### Detailed Costs

<table>
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<th>Description</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.50%</td>
<td>$417.98</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
<td>$200.63</td>
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<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>$140.44</td>
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<td>A14</td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
<td>$122.38</td>
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<tr>
<td>A11</td>
<td>Procore</td>
<td>@ 0.04500%</td>
<td>$7.52</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
<td>$568.28</td>
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</table>

**ESTIMATE TOTAL** $18,176

---

This document provides a detailed summary of costs for the Internation African American Museum project, including general requirements, trade direct costs, and various insurance and fee breakdowns. The total estimate is calculated to be $18,176.
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
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### TRADE DIRECTS

<table>
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<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>Additional Scope of Work</td>
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<td>1 LS</td>
<td></td>
<td>$16,719</td>
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<tr>
<td>Lyndon Steel RFI 450</td>
<td>$16,719</td>
<td>1 LS</td>
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<td>$16,719</td>
</tr>
</tbody>
</table>

DIRECT WORK SUBTOTAL $16,719
# PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**
1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835

**PROJECT:** International African American Museum  
Charleston, SC

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209

**Attention:** Walt Lewis  
**Phone:** 919-788-2024  
**FAX:** -

**PROPOSED CHANGE ORDER #:** 28  
**REVISION #:** 01  
**LSC CONTRACT #:** 19041  
**DATE:** 11/10/20

**DESCRIPTION**

Added cost due to receipt of RFI #450 Rev 1 response dated 10/28/20.  
Added (2) W6x20 beams, (2) W6x20 beam assemblies, attached by moment connections, and (4) L4x3x1/4 pour stops, with shop attached rebar studs, to existing dunnage support framing at Buffer Tank. Pour stops were added after the voded 1/2" bearing plate was already purchased, therefore no credit is given.  
Reference Drawings E5008, 8138, 8139, 8140, 8141, 8142, 8144 and 8145.  
See attached Proposed Detailing Extras Forms for additional description of revision detailing.  
Also, attached find invoice dated 10/27/20 and 11/9/20 from CAS Steel for added erection cost.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>A/D</th>
<th>AMOUNT</th>
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<tbody>
<tr>
<td>Materials</td>
<td>ADD</td>
<td>$757</td>
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<tr>
<td>Shop Labor</td>
<td>ADD</td>
<td>$2,480</td>
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<tr>
<td>Detailing</td>
<td>ADD</td>
<td>$1,190</td>
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<tr>
<td>Freight</td>
<td>ADD</td>
<td>$900</td>
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<tr>
<td>Erection - CAS Steel</td>
<td>ADD</td>
<td>$9,007</td>
</tr>
<tr>
<td>Overhead &amp; Profit</td>
<td>ADD</td>
<td>$2,150</td>
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<tr>
<td>Bonding</td>
<td>ADD</td>
<td>$167</td>
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<td>TAX</td>
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<td>$68</td>
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</table>

This change will ADD an additional **0** WORK DAYS to our scheduled scope of work.

Total This Change Order: **$16,719**

**Turner Const Signature:**  
Date:  
**LSC Signature:**  
Date: 11/10/20  
**Prepared By:** Spencer Fleming

---

*Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company.  
Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.  
If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.*

---

L7/007 LSC PROJECTS/2019/0041 INTERNATIONAL AFRICAN AMERICAN MUSEUM (CHARLESTON, SC)/Accounting/1-Final PCS - International African American Museum - Charleston, SC, Document CO28
General Description of Change:
Added (2) new beams W6x20 that get moment connected to the existing Dunnage support framing.
Added (2) new shop assemblies, consisting of (3) W6x20s each.
Added (1) new bearing plate PL1/2" on top of existing Dunnage support framing.

List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision
Added (6) new shop drawings & (1) new E drawing

List of REVISED PIECE MARKS & Status
Revised (2) E drawings.

Total Detailing Hours this sheet: 7
Total Checking Hours this sheet: 2
Total Impact to Schedule, ALL sheets: 9

NOTE: The detailer is not to proceed with changes until this form is signed and returned.
For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.
NOTE: The Detailer has the option of using their standard company form if all the above information is included.
Job No. 9041  
Job Name International African American Museum

Detailer Reference CO # AH  
NOC# 36  
(Refer to PM or DC for number)

Source of Change: 9041 IAM RFI 450 (REV1) Response - Added Pour Step & Studs to NOC 34 Material Email - NOC 36.pdf

General Description of Change:
Added (4) loose L4x3x1/4(LLV) pour step on (4)sides with #4 bars x5" long @12" o/c shop attached to the vertical log.
Added shop order for the 3/8dia. x 3 headed studs.

List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision
Added (2) new shop drawings and revised (2) E drawings.

List of REVISED PIECE MARKS & Status
Added (2) new shop drawings and revised (2) E drawings.

Total Detailing Hours this sheet 4
Total Checking Hours this sheet 1
Total Hours this sheet 5

Detailing Coord. Review: (Initial / Date) rand Total Det and Ckg Hours ALL sheets 5

Project Manager Acceptance:  
(Signature)  (Dated)

NOTE: The detailer is not to proceed with changes until this form is signed and returned.
For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.
NOTE: The Detailer has the option of using their standard company form if all the above information is included.
Fax to: Detailer  
CC: PM, PC, NOC Estimator  
Original: BB
# INVOICE

**Description:** NOC 34 Revised Framing at Buffer Tank  
**Job:** 434 IAAM  
**Date:** TBD  
**Invoice Date:** 27-Oct-20

<table>
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<tr>
<th>Cranes</th>
<th>Quantity</th>
<th>Rate/Hr</th>
<th>Hours</th>
<th>Subtotal</th>
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</thead>
<tbody>
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<td>200Ton</td>
<td></td>
<td>$500.00</td>
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<td>0.00</td>
</tr>
<tr>
<td>110 Ton</td>
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<td>100 Ton</td>
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**Equipment***  

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<th>Rate/Day</th>
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<td>300amp Diesel</td>
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<tr>
<td>Gen Pack</td>
<td>$135.00</td>
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<tr>
<td>LN25 Wire Weld</td>
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<tr>
<td>Compressor</td>
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<tr>
<td>Forklift TH83</td>
<td>$119.00</td>
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<tr>
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<td>Duct Jacks</td>
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<td>Man lift</td>
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<tr>
<td>Scissor lift</td>
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**Manpower**  

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<th>Rate/Hr</th>
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<td>Firewatch Overtime</td>
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<td>Perdiem</td>
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**Subtotal**  

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<tr>
<td>Fuel</td>
<td>6%</td>
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<p>| | |</p>
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<tr>
<td>Subtotal</td>
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<td>OH/Profit</td>
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<p>| | |</p>
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<tr>
<td>Total</td>
<td>$8,514.92</td>
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*NOTE: The above listed rates for equipment are subject to review on a case by case basis due to minimum rental durations and costs in some instances.*
INVOICE

NOC 36 Added Scope at Buffer Tank
434 IAAM
TBD
9-Nov-20

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<tr>
<td>100 Ton</td>
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<td>$0.00</td>
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<tr>
<td>Equipment*</td>
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</tr>
<tr>
<td>300amp Diesel</td>
<td>$60.00</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Gen Pack</td>
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<td>$0.00</td>
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<tr>
<td>LN25 Wire Weld</td>
<td>$25.00</td>
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</tr>
<tr>
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<tr>
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<td>$119.00</td>
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<tr>
<td>Manpower</td>
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<tr>
<td>Supervisor</td>
<td>$70.00</td>
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<tr>
<td>Perdiem</td>
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<td>1</td>
<td>$12.00</td>
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Subtotal: $368.66
Expendables: 10% $22.12
Fuel: 6% $36.87
Subtotal: $427.65
OH/Profit: 15% $64.15
Total: $491.79

*NOTE: The above listed rates for equipment are subject to review on a case by case basis due to minimum rental durations and costs in some instances.
## (HOT) Structural | Buffer Tank Support

| TO: | Bernard Costantino (Moody Nolan)  
Julie Cook, AIA (Moody Nolan) |
|-----|--------------------------------|
| FROM: | Daron Pardine (Turner Construction (ATL))  
Charleston, South Carolina |
| DATE INITIATED: | 10/01/2020 |
| LOCATION: |  
PROJECT STAGE: |
| SUB JOB: |  
COST IMPACT: |
| DRAWING NUMBER: |  
LINKED DRAWINGS: |
| RECEIVED FROM: | Daron Pardine (Turner Construction (ATL))  
COPIES TO: |
| | Sarah Aarons (ARUP), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Alex Nash (Turner Construction (CAR)), Jonathan Roberts (Cumming), Stephanie Terault (ARUP) |

### Question from Daron Pardine (Turner Construction (ATL)) at 11:46 AM on 10/01/2020

Per the attached markup, the dunnage that was designed in response to RFI 166 and bulletin 10 needs to be modified to coordinate with the buffer tank mounts.

Two options are attached. Please review and advise which option works for our current condition.

**Attachments:**

- [450.pdf](#)

Awaiting an Official Response

### All Replies:

**SEE ATTACHED GNA MARKUPS ON CONTRACTOR'S SKETCH FOR UPDATED STEEL FRAMING TO ACCOMMODATE PROPOSED BUFFER TANK SHIFT. MN AND ARUP TO CONFIRM UPDATED BUFFER TANK LOCATION.**

**SEE ATTACHED STRUCTURAL SKETCH SSK20201028-01 FOR ADDITIONAL CONCRETE PAD DETAILS AS REQUESTED. CONCRETE REINFORCEMENTS ARE DESIGNED BASED ON FINALIZED BUFFER TANK ANCHORAGE DESIGN LOADS SPECIFIED IN SUBMITTAL 23 05 48-2.1 WITH CONFIRMATION FROM ARUP AND T-B.**

**CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONCRETE PAD REINFORCEMENTS AND ADDED STEEL DUNNAGE FRAMING PER ATTACHED SKETCHES FOR A/E REVIEW AND APPROVAL.**

---

**X WU**  
**10/8/2020**  
**UPDATED RESPONSE:**  
**10/28/2020**  
**MN**  
**BY**  
**DATE**  
**COPIES TO**
TYPICAL SLAB EDGE DETAIL

1. SECTION

3/16" BENT PLATE ALONG EDGE OF SLAB

5' LONG #4 BAR AT 12" OC WELDED TO BACK OF BENT PLATE

STL EDGE BEAM PER PLAN TYP

CONC PAD REINFORCEMENTS SEE PLAN MARKUPS

SEE PLAN

SHEAR STUD SEE PLAN MARKUPS

CIP CONC PAD SEE PLAN MARKUPS

FACE OF BUFFER TANK ABOVE

STL ANGLE, BOLT, NUT AND WASHER FOR BUFFER TANK ANCHORAGE BY OTHERS SEE SUBMITTAL 23 05 48-2.1

1'-1" LONG ADDITIONAL #3 BAR EACH SIDE OF ANCHOR

NUT AND WASHER TO SECURE BUFFER TANK ANCHOR BOLT PRIOR TO CONC POUR AS NECESSARY

#3 ADDITIONAL U-BAR AROUND ANCHOR

4 1/2" MIN

1'-1" LONG ADDITIONAL #3 BAR EACH SIDE OF ANCHOR

#3 ADDITIONAL U-BAR AROUND ANCHOR

STL EDGE BEAM PER PLAN TYP

TYPICAL SLAB EDGE DETAIL AT BUFFER TANK LUG/MOUNT LOCATION

2. SECTION

NOTES:

1. SEE SECTION 1 FOR ADDITIONAL INFORMATION
Cumming
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/6/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 95R
Contract: Construction

Description of work to be performed: Roof Drains - Bulletin 27
This change is associated with the material and labor to provide additional roof drains and fire proofing
per Bulletin 27. This also included the removal and reinstallation of conduits in the way of the roof drain fire
proofing. All the work was completed with Time and Material tickets.

Justification: C - Errors and Omissions

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Time Extension Requested: X Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 6, 2021
(Circle One) (NO) (YES) Mike Risteski, Cumming Corp.

Approved:

(Circle One) (NO) (YES) Rick Holt, Cumming Corp.

(Circle One) (NO) (YES) Robert Faust, Cumming Corp.

(Circle One) (NO) (YES) Edmund V. Most, City of Charleston

(Circle One) (NO) (YES) Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.


Pricing: [ ] ROM Estimate of GR's & Insurances [ ] ROM Estimate for Entire PCO [X] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [X] Evaluating Potential for Time Impact [ ] Evaluated - NO TIME IMPACT [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

[ ] Work has been Completed [ ] Work Has Commenced &/or is Ongoing [ ] Work Authorization is Requested

Submitted By: Contractor: TURNER BROWNSTONE
09/03/2021 $35,056 Amount Requested

Reviewed By: Program Manager: CUMMING
Dated

Approved By: Owner: City of Charleston
Dated $ 35,056 Amount Approved
## General Summary of the Estimate

### Item #
- **A1**: GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’S) - SELF PERFORMED LABOR
  - **Estimate of Directs**: $0
- **A2**: GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’S) - MATERIAL(S) & EQUIPMENT
  - **Estimate of Directs**: $0
- **A3**: TRADE DIRECTS
  - **Subtotal**: $37,839.00
  - **CCIP**: 2.50% = $945.98
  - **Subguard**: 0.012% = $454.07
  - **Builders Risk**: 0.84% = $317.85
  - **Performance and Payment Bond**: 0.00732% = $276.98
  - **Procore**: 0.04500% = $17.03
  - **Subtotal Without Sub OH+P**: $32,406.82
- **A4**: OVERHEAD AND PROFIT - 3.25% = $1,286.15

### Subtotal Trade Directs
- **A4**: SUBTOTAL TRADE DIRECTS
  - **Subtotal**: $37,839
  - **A14**: OVERHEAD AND PROFIT - 3.25% = $1,286.15

### Estimate Total
- **SUBTOTAL**: $41,137
- **OVERHEAD AND PROFIT**: $1,286.15
- **ESTIMATE TOTAL**: $42,423.15

---

**Reviewed By**: Chris Wilson 08/26/2021
### General Requirements (GR's) & General Conditions (GC's)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
</tr>
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</table>

### Trade Directs

#### Additional Scope of Work

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR Hipp - Add Roof Drains per Bulletin 27 - Time to be track T&amp;M - Allowance</td>
<td>$23,165.00</td>
<td>LS</td>
<td>$21,232.52</td>
</tr>
<tr>
<td>Watson - Remove and Reinstall Conduit for Adding Roof Drains - Time to be track T&amp;M - Allowance</td>
<td>$13,292.00</td>
<td>LS</td>
<td>$9,791.30</td>
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<tr>
<td>TurnerBrownstone costs to be reconciled in COR 75 for additional costs</td>
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<td></td>
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<tr>
<td>Warco: Added Fireproofing to 4 additional Roof Drains</td>
<td>$1,382.00</td>
<td></td>
<td>$1,382.00</td>
</tr>
</tbody>
</table>

All costs of this change to be track T&M for this work. Tickets will be reviewed and signed by TurnerBrownstone and Cumming for approval.

Owner to be notified when work and costs reach 75% of the above value.

All tickets to be reviewed daily by TurnerBrownstone and the city.

#### Hourly Rates

**CR Hipp - Hourly Rates**

- Superintendent: $72.07 includes insurance and taxes
- Plumber: $46.35 includes insurance and taxes
- Pipefitter: $46.35 includes insurance and taxes
- Welder: $46.35 includes insurance and taxes

**Watson - Hourly Rates**

- Journeyman: $45.00 includes insurance and taxes
- Foreman: $50.00 includes insurance and taxes
- Safety: $52.00 includes insurance and taxes

Direct Work Subtotal: $32,406
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

**Reason:**
- [ ] Owner Directive
- [x] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

**Pricing:**
- [x] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO

**Time Impact:**
- [x] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work Has commenced &/or is Ongoing
- [ ] Work has been Completed

**Submitted By:**
Walter Lewis  Project Engineer
07/19/2021
Amount Requested
$35,056

**Contractor:** TURNER BROWNSTONE

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**
Edmund Most
Owner: City of Charleston

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Amount Approved**
$35,056

---

**International African American Museum**

**TURNER BROWNSTONE**
14 Wharfside Street
Charleston, SC

**Bulletin 27 - Added Roof Drains - Final Cost to be Reconciled after work is complete.**
## International African American Museum
### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>$0</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$37,839.00</td>
</tr>
</tbody>
</table>

**SUBTOTAL TRADE DIRECTS** $37,839.00

Subtotal Directs With OH+P $32,406
Subtotal Directs Without OH+P $28,514.87
Turner OH+P $926.73

**Estimate Total** $41,137

**C.R. HIPP**
- Total cost before OH+P = $18,703.0
- Total cost after OH+P = $21,232.52

**Watson**
- Total cost before OH+P = $8,429.87
- Total cost after OH+P = $9,791.30

**Warco**
- $1,382.00 - As listed below. No OH+P included

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>A4</td>
<td>CCIP</td>
<td>@ 2.50%</td>
<td>$945.98</td>
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<tr>
<td>A5</td>
<td>Subguard</td>
<td>@ 0.012</td>
<td>$454.07</td>
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<tr>
<td>A6</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>$317.85</td>
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<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
<td>$276.98</td>
</tr>
<tr>
<td>A7</td>
<td>Procore</td>
<td>@ 0.04500%</td>
<td>$17.03</td>
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<tr>
<td>A8</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
<td>$1,286.15</td>
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</table>

**SUBTOTAL** $37,839

**Estimate Total** $41,137

Reviewed By Chris Wilson 08/26/2021

O&P on price before Subcontractor O&P
GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
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<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
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<th>TOTAL</th>
<th>COMMENTS</th>
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TRADE DIRECTS

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<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>Additional Scope of Work</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1 CR Hipp - Add Roof Drains per Bulletin 27 - Time to be track T&amp;M - Allowance</td>
<td>23,165.00</td>
<td>LS</td>
<td>1</td>
<td>$23,165.00</td>
<td>$21,232.52</td>
<td></td>
</tr>
<tr>
<td>2 Watson - Remove and Reinstall Conduit for Adding Roof Drains - Time to be Track T&amp;M - Allowance</td>
<td>13,292.00</td>
<td>LS</td>
<td>1</td>
<td>$13,292.00</td>
<td>$9,791.30</td>
<td></td>
</tr>
<tr>
<td>3 TurnerBrownstone costs to be reconciled in COR 75 for additional costs</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Warco: Added Fireproofing to 4 additional Roof Drains</td>
<td>1,382.00</td>
<td></td>
<td>1</td>
<td>$1,382.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All costs of this change to be track &M for this work. Tickets will be reviewed and signed by TurnerBrownstone and Cumming for approval.

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Hourly Rates

<table>
<thead>
<tr>
<th>Hourly Rates</th>
<th>Rate</th>
<th>Includes insurance and taxes</th>
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</thead>
<tbody>
<tr>
<td>CR Hipp - Hourly Rates</td>
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<tr>
<td>Superintendent</td>
<td>72.07</td>
<td>Includes insurance and taxes</td>
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<td>Plumber</td>
<td>46.35</td>
<td>Includes insurance and taxes</td>
</tr>
<tr>
<td>Pipefitter</td>
<td>46.35</td>
<td>Includes insurance and taxes</td>
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<tr>
<td>Welder</td>
<td>46.35</td>
<td>Includes insurance and taxes</td>
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<tr>
<td>Watson - Hourly Rates</td>
<td></td>
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<tr>
<td>Journeyman</td>
<td>45.00</td>
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</tr>
<tr>
<td>Foreman</td>
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</tr>
<tr>
<td>Safety</td>
<td>52.00</td>
<td>Includes insurance and taxes</td>
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$32,639

DIRECT WORK SUBTOTAL $59,859 $32,406
Date: April 19, 2021

Attn: AJ LoDato
    Walter Lewis
    Turner Construction

Project Name: IAAM
Project Number: 04-19-005

CR HIPP Reference: PCO # 11
Project Reference: New Drains

We are pleased to provide cost to add roof drains per the field direction on time and material basis.

Total Cost  $21,232.52

Sincerely,
Debbie Marrocco
Project Manager
C.R. Hipp Construction, Inc.
Cell: (843)-425-9703

Reviewed By
Chris Wilson
08/26/2021
C. R. HIPP CONSTRUCTION COMPANY
COST DETAIL

To: Turner
Job No.: 04-19-005

Contract No.: [Blank]

Project: IAAM
Date: 4/18/2021

Subj: Additional Floor Drains
PCO No.: 11

MATERIAL AND EQUIPMENT COST

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<tr>
<td>C. Miscellaneous material</td>
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<td>of A</td>
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<tr>
<td>D. Escalation</td>
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<td>of A &amp; C</td>
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<tr>
<td>E. Subtotal</td>
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<tr>
<td>F. Sales Tax</td>
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LABOR COST

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<td>D. Labor - OT</td>
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<td>G. Site Overhead</td>
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<td>H. Efficiency</td>
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OTHER COST

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<td>E. Operations on More Than One Floor</td>
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<td>H. Distribution of Materials</td>
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C.R. HIPP Calculation Sheet adds in OH+P from 2nd Tier Sub that is already calculated in Subcontractors section. This amount should not be added in subtotal to be used for OH+P calculation. 2nd Tier Subtotal and OH+P added separately below

This change will require a 0 day time extension to complete contract.

This change proposal covers only direct costs associated with the change order work described above. We reserve the right to assess the impact of this change at a later date and to submit these cost as they become known. It is anticipated that all work required by this change will be done on a straight time basis. Overtime work, if required, will be invoiced as an additional item.

Please advise as soon as possible if we are to proceed.
Grease Trap Pads on the 1st floor- 450.00

4 roof drains on the 2nd floor approximately 25lf- 250.00

5 Mechanical room extra floor drains approximately 90lf- 820.00
C.R. Hipp Construction, Inc.

EXTRA WORK AUTHORIZATION

PROJECT: TAMM MUSEUM
DATE: 1-13-21  JOB NO.: 04-19-005
BY: Chris Brinson
WORK AUTHORIZATION NO.:  

CONTRACTOR: CR Hipp

DESCRIPTION OF WORK:
- Layout Roof Drains 4 new per change
- Laying out on 2nd and 3rd Floor to transfer marks due to steel not on 3rd Roof area. That is on 2nd.

ABOVE WORK DESCRIPTION AUTHORIZED BY:

[Signature] Turner Const. 1-15-2021

CONTRACTOR SIGNATURE DATE

ABOVE WORK DESCRIPTION ACCEPTED BY:

[Signature]  

SUBCONTRACTOR SIGNATURE DATE

MATERIALS FURNISHED

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<tr>
<th>TYPE OF MATERIAL</th>
<th>QTY</th>
<th>UNIT PRICE</th>
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LABOR FURNISHED

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<tr>
<th>TRADE CLASSIFICATION</th>
<th>HOURS</th>
<th>RATE</th>
<th>AMOUNT</th>
</tr>
</thead>
</table>
- Supt
- Foreman
- Plumber
- Helper

SUBTOTAL
SALES TAX
TOTAL MATERIALS

TOTAL LABOR

TOTAL MATERIAL COST
TOTAL LABOR COST (+ Burcén)
SUBTOTAL
OVERHEAD/PROFIT @

TOTAL

Time Acknowledged by:

[Signature]
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

PROJECT: IAAM
DATE: 1/20/21
JOB NO.: 04-19-005
BY: Chris Brinson
WORK AUTHORIZATION NO.: ---

CONTRACTOR: CR Hipp
DESCRIPTION OF WORK:
Core 4 holes in 3rd Floor Slab/Roof Area
Grout Roof Drains in Slab & plus Drains for water stop
Tie pipe into Drain body & drain underneath slab

ABOVE WORK DESCRIPTION AUTHORIZED BY:
[Signature]
[Date 1/20/21]
CONTRACTOR SIGNATURE

ABOVE WORK DESCRIPTION ACCEPTED BY:
[Signature]
SUBCONTRACTOR SIGNATURE

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<tr>
<td>TOTAL MATERIALS</td>
<td>SUMMARY</td>
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TOTAL MATERIAL COST
TOTAL LABOR COST (+ Burden)
SUBTOTAL
OVERHEAD/PROFIT @
TOTAL
C.R. Hipp Construction, Inc.

EXTRA WORK AUTHORIZATION

PROJECT: J9AM
DATE: 1/24/21 JOB NO.: 04-19-005
BY: Chris Brinson

CONTRACTOR: C.R. Hipp

DESCRIPTION OF WORK:
- Cut Storm Piping & Install Combo & Tie in New Roof Drain North West 2nd Floor. Install Hangers to Support New Piping

Supt - Chris Brinson  Foreman - Chris Dangerfield
Plumber - Preola Wheeling  Plumber Helper - Laphare Clemens

ABOVE WORK DESCRIPTION AUTHORIZED BY:

Contractor Signature: [Signature]
Date: 1/27/2021

ABOVE WORK DESCRIPTION ACCEPTED BY:

Subcontractor Signature: [Signature]
Date: [Date]

MATERIALS FURNISHED

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<tr>
<td>Chris Dangerfield</td>
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<tr>
<td>Chris Martin, Preola Wheeling</td>
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<td>Laphare Clemens</td>
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LABOR FURNISHED

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<td>Plumber Helper</td>
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SUBTOTAL

SALES TAX

TOTAL MATERIALS

TOTAL LABOR

SUMMARY

TOTAL MATERIAL COST
TOTAL LABOR COST (+ Burden)
SUBTOTAL
OVERHEAD/PROFIT @
TOTAL
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

PROJECT: [Blank]
DATE: 1/28/21
JOB NO.: 641-19-005
BY: Chris Brinson

CONTRACTOR: CR Hipp

DESCRIPTION OF WORK: Install 2 Roof Drains 2nd Fl north Side
Insulate new Install of pipe

Supt - Chris Brinson
Foreman - Chris Dance-Field
Plumbers - Chris Martin - Donald Hardee - Preola Wheeling

ABOVE WORK DESCRIPTION AUTHORIZED BY: [Signature] 2 - 3 - 2021
CONTRACTOR SIGNATURE

<table>
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<td>Supt</td>
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<td>Plumber</td>
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SUMMARY

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<tr>
<td>TOTAL LABOR COST (+ Burden)</td>
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<tr>
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<tr>
<td>OVERHEAD/PROFIT @</td>
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</table>
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

PROJECT: JHM-
DATE: 2-1-21  JOB NO: 04-19-005
BY: Chris Brinso-
WORK AUTHORIZATION NO.:

CONTRACTOR: CR Hipp

DESCRIPTION OF WORK: Install 4" Roof Drain East End north side
Cut storm pipe, install Fitting T in Roof Drain body
Insulate Pipes.

ABOVE WORK DESCRIPTION AUTHORIZED BY:
CONTRACTOR SIGNATURE  2-3-2021

ABOVE WORK DESCRIPTION ACCEPTED BY:
SUBCONTRACTOR SIGNATURE  

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T.M. Acton:

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<tr>
<td>OVERHEAD/PROFIT</td>
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C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

PROJECT: J-444
DATE: 2-22-21
JOE NO.; 04-19-005
BY: Chris Briscoe
WORK AUTHORIZATION NO.: 

CONTRACTOR: C.R. Hipp

DESCRIPTION OF WORK: Install Roof Drain North East
Cut Main and Install Roof Drain Tee. Install hangers
For Added Tee, Insulate Twin Pumps on Roof Drains

ABOVE WORK DESCRIPTION AUTHORIZED BY: 

CONTRACTOR SIGNATURE DATE

2-3-2021

ABOVE WORK DESCRIPTION ACCEPTED BY: 

SUBCONTRACTOR SIGNATURE DATE

MATERIALS FURNISHED

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<td>Chris Martin</td>
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<td>Proctor Wheeling</td>
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<td>Hunter Sinsky</td>
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LABOR FURNISHED

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SUBTOTAL

SALES TAX

TOTAL MATERIALS

TOTAL LABOR

SUMMARY

TOTAL MATERIAL COST

TOTAL LABOR COST (+ Burden)

SUBTOTAL

OVERHEAD/PROFIT @

TOTAL
**C.R. Hipp Construction, Inc.**

**EXTRA WORK AUTHORIZATION**

**PROJECT:** John

**DATE:** 2/3/21  **JOB NO.:** 04-19-005

**BY:** Chris Binsar

**WORK AUTHORIZATION NO.:**

**CONTRACTOR:** CR Hipp

**DESCRIPTION OF WORK:** Install Adding Roof Drains Cut & Install Fitting & Pipe to New Drain Body & Test All New Pipes

**ABOVE WORK DESCRIPTION AUTHORIZED BY:**

[Signature]

2/8/2021

**CONTRACTOR SIGNATURE**

2/8/2021

**ABOVE WORK DESCRIPTION ACCEPTED BY:**

**SUBCONTRACTOR SIGNATURE**

**DATE**

<table>
<thead>
<tr>
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<td>Preble Wheeling</td>
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**SUBTOTAL**

**TOTAL LABOR**

**SALES TAX**

**TOTAL MATERIALS**

**TOTAL MATERIAL COST**

**TOTAL LABOR COST (+ Burden)**

**SUBTOTAL**

**OVERHEAD/PROFIT @**

**TOTAL**
# FERGUSON ENTERPRISES LLC #34
Price Quotation
Phone: 843-747-6301
Fax: 843-554-8799

Bid No: B778871
Bid Date: 02/24/21
Quoted By: KN

Customer: C R HIPP CONSTRUCTION
PO BOX 2350
MAIN ACCOUNT
IAAM-AFRICAN AMERICAN MUSE
GOOSE CREEK, SC 29445

Ship To: C R HIPP CONSTRUCTION
PO BOX 2350
MAIN ACCOUNT
IAAM-AFRICAN AMERICAN MUSE
GOOSE CREEK, SC 29445

Cust PO#: Z121 EXT
Job Name: IAAM-AFRICAN AMERICA

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Net Total: $4477.51
Tax: $402.98
Freight: $0.00
Total: $4880.49

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer’s acceptance of Seller’s terms and conditions, which are incorporated by reference and found either following this document, or on the web at https://www.ferguson.com/content/website-info/terms-of-sale
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not “lead free” in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

HOW ARE WE DOING? WE WANT YOUR FEEDBACK!
Scan the QR code or use the link below to complete a survey about your bids:
https://survey.medallia.com/?bidorder&fc=23&on=362880
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

PCO # 38
Date: 3/30/2021
Project Name: IAAM Museum
Project Number: 21071
Page Number: 1

Work Description

SCOPE OF WORK:
Pricing is based on Bulletin #27 documentation dated 12/17/2020.

Inclusions:
Demo and reinstall conduits and conduit racks system(s) to allow for roof drain changes.
Demo and reinstall individual conduit raceways for roof drain changes.

Exclusions:
Costs for any additional materials if required.

Clarifications:
Approved change order or formal work directive is required prior to scheduling or performing this work.
If this work is accepted and required this will be considered a delay and additional costs will be evaluated and submitted seperately.
Manpower will require two weeks to procure.
Per diem included for 2 men for 3 weeks.
Conduit and conduit racks are to be reinstalled at same dimensions.
If more than 8 sections or areas of conduit are need to be removed additional costs will be added to this pricing.

Revised:
Branch racks only removed, no feeder racks required to be removed. Reduced time.
Less than 8 section were removed.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 10 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_32 R1>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; COUPLING COMP STL - EMT</td>
<td>74</td>
<td>314.17</td>
<td>33.30</td>
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<td>2&quot; COUPLING COMP STL - EMT</td>
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<td>282.04</td>
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<td>3&quot; LOCKNUT - S/S</td>
<td>10</td>
<td>0.00</td>
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<tr>
<td>DEMO</td>
<td>8</td>
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<td>104.00</td>
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<tr>
<td>REINSTALL</td>
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<td>Totals</td>
<td>110</td>
<td>596.21</td>
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ORIGINAL
## Summary

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>General Materials</td>
<td></td>
<td>@ 9.00 %</td>
<td>596.21</td>
</tr>
<tr>
<td>Material Tax</td>
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<td>@ 9.00 %</td>
<td>53.66</td>
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<tr>
<td><strong>Material Total</strong></td>
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<td><strong>649.87</strong></td>
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<td>JOURNEYMAN</td>
<td>104.00 Hrs @ $45.00</td>
<td>4,680.00</td>
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<tr>
<td>FOREMAN</td>
<td>20.00 Hrs @ $50.00</td>
<td>1,000.00</td>
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<tr>
<td>SAFETY</td>
<td>11.00 Hrs @ $52.00</td>
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<tr>
<td>PM&amp;S</td>
<td>(135.00 @ 0.00 @ $6.00 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>810.00</td>
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<tr>
<td>VDC</td>
<td>(135.00 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>135.00</td>
<td></td>
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<tr>
<td>HELATH AND HYGEINE</td>
<td>(135.00 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>337.50</td>
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<td>CONSUMABLES</td>
<td>(135.00 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>PER DIEM</td>
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<td>SCISSOR LIFT</td>
<td>2.00 @ 2.00 @ $525.00 + 0.000 % + 0.000 % + 0.000 %</td>
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<td><strong>Subtotal</strong></td>
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<td><strong>12,859.87</strong></td>
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<td>Overhead</td>
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<td><strong>Subtotal</strong></td>
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<td><strong>13,669.87</strong></td>
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<td>Adjustment #1 - BOND</td>
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<td><strong>Final Amount</strong></td>
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<td><strong>$14,936.74</strong></td>
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### CONTRACTOR CERTIFICATION

I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

I hereby accept this quotation and authorize the contractor to complete the above described work.
### Material Used

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 1</td>
<td>Description 1</td>
<td>01/01/2023</td>
<td>Location 1</td>
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<tr>
<td>Item 2</td>
<td>Description 2</td>
<td>01/02/2023</td>
<td>Location 2</td>
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<tr>
<td>Item 3</td>
<td>Description 3</td>
<td>01/03/2023</td>
<td>Location 3</td>
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### Equipment Used

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<tr>
<th>Equipment</th>
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<tr>
<td>Generator</td>
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<td>Drill</td>
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<td>Saw</td>
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### Labor Used

<table>
<thead>
<tr>
<th>Laborer</th>
<th>Hours</th>
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<tbody>
<tr>
<td>John</td>
<td>10</td>
</tr>
<tr>
<td>Jane</td>
<td>15</td>
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<tr>
<td>Mike</td>
<td>5</td>
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**Notes:**

- Work performed on 01/01/2023.
- Job number: J-123.
- Supervisor: Smith.
- Contractor: ABC Construction.
<table>
<thead>
<tr>
<th>Employee Name</th>
<th>Code</th>
<th>Labor Type</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thru</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total</th>
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<tbody>
<tr>
<td>Hung Thoong</td>
<td>2319</td>
<td>RT</td>
<td>01</td>
<td>10</td>
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<tr>
<td>Jordan Failey</td>
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<td>OT</td>
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<td>Robert EBanks</td>
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**EQUIPMENT USED**

<table>
<thead>
<tr>
<th>Rental Usage</th>
<th>Day</th>
<th>Week</th>
<th>Month</th>
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<tbody>
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**MATERIAL USED**

<table>
<thead>
<tr>
<th>Description</th>
<th>QTY</th>
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<tr>
<td>3 - Scissors Liffs</td>
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</table>
## Material Used

<table>
<thead>
<tr>
<th>Day</th>
<th>Week</th>
<th>Month</th>
<th>Rental Rate</th>
<th>Description</th>
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<tbody>
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</table>

## Equipment Used

<table>
<thead>
<tr>
<th>OT Total</th>
<th>RT Total</th>
<th>Employee Signature</th>
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<tbody>
<tr>
<td>35</td>
<td></td>
<td>George Washington</td>
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<tr>
<td>2319</td>
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<td>Jordan Fallows</td>
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<td>2319</td>
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<td>Huing Thoong</td>
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</table>

## Labor Used

<table>
<thead>
<tr>
<th>Date Work Performed</th>
<th>Support Person</th>
<th>Contractor</th>
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<th>Job O'O Number</th>
<th>Car Number</th>
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<tr>
<td>02/02/2021</td>
<td>George Washington</td>
<td>Junior</td>
<td>AM</td>
<td>2107</td>
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Note: That was done out to Inset root drain.

- Initial: Conduits and Racks
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</tbody>
</table>
February 16, 2021

Bri’Shae Anderson  
Turner Construction Company  
704-962-6408  
banderson@tcco.com

Re: IAAM Bulletin #27  
- Charleston, SC

**Scope:** Apply 1-1/2” of Cafco Blaze-Shield II spray fireproofing to deck around 4 roof drains per Bulleting #27 drawings.

<table>
<thead>
<tr>
<th><strong>Labor Straight Time</strong></th>
<th>$60.00 per man hour</th>
<th>12</th>
<th>$720</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Labor Over Time</strong></td>
<td>$81.00 per man hour</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Material – Standard Density</strong></td>
<td>$37.00 per bag</td>
<td>16</td>
<td>$592</td>
</tr>
<tr>
<td><strong>Material – Bond Seal</strong></td>
<td>$290.00 per 5 gallon bucket</td>
<td>0</td>
<td>$0</td>
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<tr>
<td><strong>Pump Rental</strong></td>
<td>$70.00 per day</td>
<td>1</td>
<td>$70</td>
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<tr>
<td><strong>Mobilization</strong></td>
<td>$1,500.00 per trip</td>
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<td>$0</td>
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<tr>
<td><strong>Total</strong></td>
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<td></td>
<td><strong>$1,382</strong></td>
</tr>
</tbody>
</table>

**Conditions:** Any items including but not limited to MEP’s that may hinder the ability to apply fireproofing as required will be up to others to move.

See below for additional requirements.

Should you have questions, please contact our office at 704-521-5200.

Best Regards,

Daniel Adams  
Warco Construction, Inc.
CONDITIONS FOR FIREPROOFING PROPOSAL

1. Surfaces to receive fireproofing will be free from any substance that would impair adhesion. Structural steel shall be mill-finished (no paint) and decking shall be galvanized.

2. This proposal excludes any costs associated with heating, ventilation, dehumidification, or cold weather protection. Proper drying requires a minimum of four (4) air exchanges per hour to be provided by others.

3. Adequate water provided by the General Contractor includes a water source within 150 ft of fireproofing set-up with 60 psi at the fireproofing set-up. Adequate electrical power provided by the General Contractor is to be within 100 ft of fireproofing pump set-up.

4. Before roofing protection can begin, roof construction must be completed and traffic must cease on roof while our spray is being executed and while fireproofing is curing. Traffic on roof after curing is complete may also cause the bond between fireproofing and deck to break. We will not accept responsibility for this damage.

5. Within building, we require free and clear ingress/egress for movable scaffolds from the floor line to the area to be fireproofed. No installation that would restrict movement of our scaffolds, personnel or equipment or limit our uninterrupted application of fireproofing will be permitted. Clutter, debris and/or items stored on the floor must be located where they will not interfere with said application. Protection of these items is not the responsibility of WARCO CONSTRUCTION, INC.

6. All patchwork and repairing of fireproofing due to damage (intentional or unintentional) by others is excluded.

7. After completion of fireproofing work, equipment shall be removed and all exposed wall and floor areas shall be left in broom-clean condition. We shall deposit trash and overspray in a centrally located dumpster furnished by others.

8. Performance and Payment Bonds are excluded. If required, the premium cost should be added at a rate of 1.5%.

9. We do not include any cost for field-testing by an independent laboratory.

10. We take exception to any contract clauses regarding that our final payment is contingent upon your payment from the Owner, as we are looking to you for our payment.

11. Rolling scaffolds that conform to OSHA standards will be used to perform a continuous spray operation. If more stringent safety requirements are enforced, which require us to get off of scaffolds prior to moving them, we may require an increase in our price to offset the costs of labor and/or lift rentals.

12. The UL approved option of Glass Fiber Mesh may be used to facilitate the spray application on joist members. We exclude cutting out the unused portions of mesh, which may affect the sprinkler head spray patterns and spacing.
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 109
Contract: Construction

Description of work to be performed: Memorial Wall Changes - Bulletin 17, 17.1, 17.2, 17.3
This change is associated with the material and labor to change the size of the CMU block for the memorial wall. The original GMP drawings call for a fully grouted double 10" CMU wall. This gets changed to a 10" & 8" CMU block, filled with grout, as well as a bond beam in the middle of the CMU wall height. The bulletin also expands the size of the footer, adding additional rebar.

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error

Indicate Reason for Change Proposal: C - Errors and Omissions

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $29,885.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved: Rick Holt, Cumming Corp.
(N) (Y) (Circle One)

Decision needed by: July 12, 2021
Owner (NO) (YES) (Circle One)

Edmund V. Most, City of Charleston
(N) (YES) (Circle One)

Bernard Costantino, Moody Nolan
(N) (YES) (Circle One)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install materials and labor associated with Bulletin 17, 17.1, 17.2, 17.3. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

**Reason:**
- Owner Directive
- Code / Regulatory
- Unforeseen Condition
- Design Issue

**Pricing:**
- ROM Estimate of GR's & Insurances
- ROM Estimate for Entire PCO
- Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- Evaluating Potential for Time Impact
- X Evaluated - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- Work has been Completed
- Work Has Commenced &/or is Ongoing
- Work Authorization is Requested By:

**Submitted By:**
Contractor: **TURNER BROWNSTONE**

```
Date Submitted:  March 31, 2021
Contractor: TURNER BROWNSTONE
Walter Lewis  Project Engineer
03/31/2021

$29,885
Amount Requested
```

**Requested Action:**
- Authorized to Proceed while Pricing
- Price Only
- Do Not Proceed or Price

**Authorized Action:**
- Authorized to Proceed while Pricing
- Price Only
- Do Not Proceed or Price

**Reviewed By:**
Program Manager: **CUMMING**

```
/ / Dated
```

**Approved By:**
Owner: **City of Charleston**

```
Edmund Most
/ / Dated
$29,885
Amount Approved
```
<table>
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<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
<th>SUBTOTAL TRADE DIRECTS</th>
</tr>
</thead>
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<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<td>A8</td>
<td>CCIP</td>
<td>@ 2.50%</td>
<td>$687.23</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
<td>$329.87</td>
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<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>$230.91</td>
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<td>A11</td>
<td></td>
<td>@ 0.00732</td>
<td>$201.22</td>
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<td>A14</td>
<td>Performance and Payment Bond</td>
<td></td>
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<td>A15</td>
<td>Procore</td>
<td>@ 0.04500%</td>
<td>$12.37</td>
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<td>Overhead and Profit</td>
<td>@ 3.25%</td>
<td>$934.35</td>
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<td>A16</td>
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**SUBTOTAL** $27,489

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<td>Overhead and Profit</td>
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**ESTIMATE TOTAL** $29,885
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<td></td>
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<td>Additional Scope of Work</td>
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<td>1 Donley's Change To Site Wall Foundations</td>
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<td>1</td>
<td>LS</td>
<td>$6,550.00</td>
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<tr>
<td>2 Patcon - Change To Masonry Wall</td>
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<td>1</td>
<td>LS</td>
<td>$20,939.00</td>
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To: Bobby Teachey & Walt Lewis  
6/1/2020  
COR #: 43  
Title: Warehouse Wall Foundation Changes (Bull. 17)  
Schedule Impact: 1 day  
Agent: Donley’s Concrete Group

The design team issued ASI #017 which widened the foundation for the Warehouse wall to 6.6’. Due to this change, the quantity of rebar, concrete and labor to form/excavate increased.

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<tr>
<th>Materials</th>
<th>Qty.</th>
<th>Unit</th>
<th>Labor $/UM</th>
<th>EQ $/UM</th>
<th>Mat $/UM</th>
<th>SUB $/UM</th>
<th>Labor</th>
<th>EQ</th>
<th>Mat</th>
<th>SUB</th>
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<tr>
<td>Additional Concrete</td>
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<td>-</td>
<td>-</td>
<td>135</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
<td>230</td>
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<tr>
<td>Additional Rebar (Lump sum w/ detailing)</td>
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<td>-</td>
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<td>1,539</td>
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<td>Misc Materials (nails, saw blades, etc.)</td>
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<td>150</td>
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<td>Concrete Pump</td>
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<td>Laborers</td>
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<td>HRS</td>
<td>46</td>
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<tr>
<td>Carpenter</td>
<td>12</td>
<td>HRS</td>
<td>57</td>
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<tr>
<td>Field Engineer - review plans again &amp; load new sleeve points in gun</td>
<td>-</td>
<td>HRS</td>
<td>80</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Rodbuster (unload &amp; Install additional rebar)</td>
<td>15</td>
<td>HRS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>57</td>
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<td>Foreman</td>
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<td>HRS</td>
<td>60</td>
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<tr>
<td>Superintendent</td>
<td>-</td>
<td>HRS</td>
<td>100</td>
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<tr>
<td>Project Manager</td>
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<td>HRS</td>
<td>90</td>
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<td>-</td>
<td>-</td>
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</table>

| Subtotal | $ 1,140 | $ 1,050 | $ 480 | $ 2,391 |
| Burden    | INCL     | $ -     | $ -   | $ -    |
| Tax       | $ -     | $ 95    | $ 43  | $ 215  |
| SDI       | $ -     | $ -     | $ -   | $ 209  |
| Service Dep. | $ 34 | $ 53    | -     | -      |
| Bond      | $ 11    | $ 11    | $ 5   | $ 24   |
| GL Insurance | $ - | $ -     | $ -   | $ -    |
| OH/Profit | INCL    | $ 181   | $ 79  | $ 439  |

| Item Totals | $ 1,186 | $ 1,389 | $ 607 | $ 3,368 |

| Totals      | $ 6,550 |         |       |         |

Submitted by: Chris Hewitt, Project Manager  
Donley’s Concrete Group

BMP-CON-F-001  
Revision - 11/2/2015
Harris Rebar North Carolina Inc.

Project No: 06219158-21  Change Order #21  Date: May 12, 2020

To: Donley's Concrete
    Mr. Chris Hewitt

Project: International African American Museum

Loc.: Charleston, SC

Archt.: 

Change Order #21: Approximately 1.31 tons plain rebar for $1,678.00 including applicable tax.

Description: Additional rebar and 1 hour of detailing time required per Bulletin 017 dated 5/8/20. Bulletin revised the Warehouse CMU wall foundation to 6'-06" wide, revised longitudinal bars to 7 #6 continuous, and added #5 transverse bars at 12".

Accepted by Buyer

This day of

Buyer's name: 

Approved By: 

Name/Tite: 

Harris Rebar North Carolina Inc.

By: Neil Byrd  5/12/2020

Title: Sales Estimator

Approved By: 

Name/Tite: Gary Rhodes, Area Manager
**Masonry Change Order for Bulletin 17.3**

PatCon Industries (PCI) is requesting a change order for the warehouse wall according to 17.3 for a total price of **$20,939.20**. The price breakdown is as follows:

<table>
<thead>
<tr>
<th></th>
<th>Price Breakdown</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The material price add for more rebar (and grout) will be an add of <strong>$7,065.20</strong></td>
</tr>
<tr>
<td>2</td>
<td>The labor price add for more rebar (and grout) will be <strong>$5,601</strong></td>
</tr>
<tr>
<td>3</td>
<td>The labor price add for going from a 8&quot; CMU and 12&quot;CMU to a 8&quot;CMU and 10&quot; CMU is <strong>$0</strong></td>
</tr>
<tr>
<td>4</td>
<td>The material price for going from a 8&quot; and 12&quot; CMU wall to a 8&quot; and 10&quot; CMU wall is <strong>$7,573.00</strong></td>
</tr>
<tr>
<td>5</td>
<td>The price for fabricating new shop drawings will be an add of <strong>$700.00</strong></td>
</tr>
</tbody>
</table>

**PatCon Industries is a fully certified MBE** that specializes in masonry work. If you have any questions about our company, bid proposal, or scope of work, please email us at wpatterson@patconind.com, call us at 803-783-4123, or visit our website at www.patconind.com. Our Construction Manager Certificate Number is **CCM.647** and our General Contractor License Number is **G115927**.

**Please add us to your bid list if we are not currently not on it.**

We look forward to working with you.

**Will Patterson**
Lead Estimator
803-783-4123
patconindustries@gmail.com
www.patconind.com
To: EDMUND V. MOST
From: MIKE RISTESKI
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 115R
Contract: Construction

Description of work to be performed: Monumental Stair Railing (ADA) - Bulletin 24
This change is associated with the material and labor to install additional railing to the monumental stair with a sapele wood handrail. This change was prompted in order to meet ADA requirements.
The change was issued in Bulletin 24

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $15,678.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

(Circle One) NO (YES) Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 22 as outlined on the back up page. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

**Reason:**
- [X] Owner Directive
- [X] Code / Regulatory
- [ ] Unforeseen Condition
- [X] Design Issue

**Pricing:**
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate for Entire PCO
- [ ] ROM Estimate of GR’s & Insurances

**Time Impact:**
- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work Authorization is Requested By:

**Submit By:**
- Walter Lewis, Project Engineer
- Dated: April 24, 2021
- Amount Requested: $15,678

**Reviewed By:**
- Program Manager: CUMMING
- Dated: [ ]

**Approved By:**
- Owner: City of Charleston
- Dated: [ ]
- Amount Approved: $15,678

**Requested Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Authorized Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Date Submitted:** April 24, 2021
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A4 SUBTOTAL TRADE DIRECTS $14,421

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<td>CCIP</td>
<td>@ 2.50%</td>
<td>$360.53</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
<td>$173.05</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>$121.14</td>
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<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
<td>$105.56</td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>@ 0.04500%</td>
<td>$6.49</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
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ESTIMATE TOTAL $15,678
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

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### TRADE DIRECTS

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<th>RATE</th>
<th>Unit</th>
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<tr>
<td>Additional Scope of Work</td>
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<td></td>
<td></td>
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</tr>
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<td>1. All - Pro Builders - Added Handrail Bulletin 24</td>
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<td>LS</td>
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<td>2. Lyndon - Add Steel Handrail.</td>
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<tr>
<td>3. Paint Steel rail -</td>
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<td>1</td>
<td>LS</td>
<td>$3,600.00</td>
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**DIRECT WORK SUBTOTAL**: $14,421
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 22 as outlined on the back up page. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start without signed change order.

Reason: [X] Owner Directive

Pricing: [ ] ROM Estimate of GR's & Insurances

Time Impact: [X] Evaluating Potential for Time Impact

Authorized Action: Authorized to Proceed While Pricing

Authorized Action: Authorized to Proceed While Pricing

Approved By:

Edmund Most

Amount Approved

$14,482
### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>SELF PERFORMED LABOR</td>
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<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<td></td>
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<td>A3</td>
<td>TRADE DIRECTS</td>
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<td>A4</td>
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<td>SUBTOTAL TRADE DIRECTS</td>
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<tr>
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<td>A7</td>
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<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.50%</td>
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<tr>
<td></td>
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<td>= $333.03</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
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<td></td>
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<td>= $159.85</td>
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<tr>
<td>A10</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
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<td></td>
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<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
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<td></td>
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<tr>
<td>A14</td>
<td>Procore</td>
<td>@ 0.04500%</td>
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<tr>
<td></td>
<td></td>
<td>= $5.99</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
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<tr>
<td></td>
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<td>= $452.78</td>
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**ESTIMATE TOTAL**: $14,482
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<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
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<th>TOTAL</th>
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<tbody>
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<td>TRADE DIRECTS</td>
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<tr>
<td>Additional Scope of Work</td>
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<tr>
<td>1</td>
<td>All - Pro Builders - Added Handrail Bulletin 24</td>
<td>$4,337.00</td>
<td>1</td>
<td>LS</td>
<td>$4,337.00</td>
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<tr>
<td>2</td>
<td>Lyndon - Add Steel Handrail. - Plug</td>
<td>$6,484.00</td>
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<td>LS</td>
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<tr>
<td>3</td>
<td>Paint Steel rail -</td>
<td>$2,500.00</td>
<td>1</td>
<td>LS</td>
<td>$2,500.00</td>
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<td>DIRECT WORK SUBTOTAL</td>
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<td>DIRECT WORK SUBTOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$13,321</td>
</tr>
</tbody>
</table>
# Change Order Request #2

**General Contractor:** All Pro Builders & Restorations, LLC  
14103 Northridge Drive  
Charlotte, NC 28269  
**Date:** 11-March-21

**Owner:** Turner Construction  
4601 Park Road  
Charlotte, NC 28209  
**Job #:**

**Project:** International African American Museum  
**Location:** Charleston, SC  
**Contract #:** 4700140857  
**PCO#:** 2

**Reason for Change Request: Sapele Handrails**

Per Bulletin 24, the Price is for the Installation of an additional forty (40) linear feet of sapele handrail.
<table>
<thead>
<tr>
<th>Scope of Work</th>
<th>Unit of Measure</th>
<th>Unit Cost</th>
<th>Total Amount</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials / Miscellaneous</td>
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</tr>
<tr>
<td>Sapele Hand Rails - 40 linear feet</td>
<td>1</td>
<td>$3,854.75</td>
<td>$3,854.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
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<td></td>
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<td>Subtotal</td>
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<tr>
<td>Labor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hr.</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
</tr>
<tr>
<td></td>
<td>Hr.</td>
<td>$-</td>
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</tr>
<tr>
<td></td>
<td>Hr.</td>
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<td></td>
<td>Hr.</td>
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<td>Hr.</td>
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<tr>
<td>Total Labor</td>
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<td></td>
<td>0</td>
<td>$0.00</td>
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<tr>
<td>Burden (excluding WC &amp; GL if you are enrolled in CCIP)</td>
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<tr>
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<td></td>
<td></td>
<td>Subtotal</td>
<td>$0.00</td>
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<tr>
<td>Equipment</td>
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<tr>
<td></td>
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<td>0</td>
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</tr>
<tr>
<td></td>
<td>Month</td>
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<td>0</td>
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<tr>
<td>Total Equipment</td>
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<td></td>
<td>Subtotal</td>
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<tr>
<td></td>
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<td>Subtotal</td>
<td>$3,854.75</td>
</tr>
<tr>
<td>Description</td>
<td>Amount</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>----------</td>
<td></td>
<td></td>
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<tr>
<td>Overhead 12.5%</td>
<td>$ 481.84</td>
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<tr>
<td>Fee 5%</td>
<td>$ -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 4,336.59</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Plus Subcontracted Work</strong></td>
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<tr>
<td>Fee 5%</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$ 4,336.59</strong></td>
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<tr>
<td>Total Unburdened Labor</td>
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<td></td>
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<tr>
<td>(Including Subcontractors)</td>
<td><strong>$0.00</strong></td>
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</tbody>
</table>

The Owner’s Acceptance of this Extra Work Order acknowledges that (i) All-Pro Builders & Restorations, LLC is authorized and directed to perform the above work, (ii) the performance of said Work is outside the scope of All-Pro Builders & Restorations, under the Subcontract for the project referenced above and (iii) Owner has an obligation to pay for said Work in accordance with the terms of the Subcontract.

All-Pro Builders & Restorations, LLC:  

ACCEPTED BY:
Change Order #002

Change Order Date: March 9, 2021

Customer/Owner: International African American Museum  
Job Address: 113 Calhoun St, Charleston, SC 29401  
General Contractor: Turner Construction & Brownstone

Pursuant to terms of the Original Contract, dated for the project referenced above, the following changes/additional/deletion work are hereby agreed to and approved:

SCOPE:
DK Hayden will provide the cost increase to install additional sapele hand rails per Bulletin 24 Pricing.

Sapele Hand Rails - 40 linear feet x $44.58 = $1,783.21 x 15%  
Labor - 40 hours x $44.89 =  
Textura  

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sapele Hand Rails</td>
<td>40 linear feet</td>
<td>$44.58</td>
<td>$1,783.21</td>
</tr>
<tr>
<td>Labor</td>
<td>40 hours</td>
<td>$44.89</td>
<td>$1,795.60</td>
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<tr>
<td>Textura</td>
<td></td>
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<td>$8.46</td>
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</table>

Net Amount of previous change order $449,034.00 
Total Contract Amount plus or minus net change order $494,022.05 
Total cost of this change order for additional sapele hand rails per Bulletin 24 $3,854.75 
Proposed New/Revised Contract including this change order $497,876.80

Payment for this Change order is due upon completion of this work and submittal of the invoice by contractor.

I have read and understand the change order as listed above and I agree to sum changes for the change order.

General Contractor/Client/Owner

DK Hayden Construction

By (signature)  
By (signature)  
Date: 03.09.2021
NOTE:
RAILING STRUCTURAL STABILITY (CODE REQUIREMENT) TO BE VERIFIED AND ENGINEERED BY STEEL CONTRACTOR.
NOTE:
RAILING STRUCTURAL STABILITY (CODE REQUIREMENT) TO BE
VERIFIED AND ENGINEERED BY STEEL CONTRACTOR.
To: COD100  
COD ACCOUNT  
SC

Ship To:  
DK HAYDEN CONSTRUCTION  
TONY HAYDEN  
IAAM PROJECT

Quo #: 121162  
Route: NONE  
Page: 3 of 3  
Quote: 02/15/21  
Sched: 03/24/21  
Printed  
Date: 02/15/21  
Time: 01:50 PM

<table>
<thead>
<tr>
<th>FOB: DLVD</th>
<th>Entd By: BOBD</th>
<th>Via: Will Notify Ship Date</th>
<th>Contact: TONY HAYDEN</th>
<th>Phone: (704) 280-8374</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: WHSE</td>
<td>In: 15 / Out: 15</td>
<td>Terms: CASH</td>
<td>Your Order: TONY HAYDEN</td>
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</tr>
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<table>
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<tr>
<th>Line #</th>
<th>Item Number</th>
<th>Description</th>
<th>Quantity</th>
<th>U/M</th>
<th>List / Discount</th>
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<td>0001.00</td>
<td>99 SMER</td>
<td>SAPELE, STAIN GRADE, 2&quot; FULL ROUND EXTERIOR HANDRAIL Tally (Qty/Len): 4/10</td>
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<td>99 SMER</td>
<td>SAPELE, STAIN GRADE, 2&quot; FULL ROUND QUARTER TURN</td>
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<td>0003.00</td>
<td>99 SMER</td>
<td>SAPELE, STAIN GRADE, 2&quot; FULL ROUND UP EASING</td>
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<td>0004.00</td>
<td>99 SMER</td>
<td>SAPELE, STAIN GRADE, 2&quot; FULL ROUND DOWN / OVER EASING</td>
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<td>107.25</td>
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<td>99 FR</td>
<td>FREIGHT</td>
<td>1.00</td>
<td>EA</td>
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<td>294.00</td>
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<td>0006.00</td>
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<td>Remark: ALLOW 4 TO 6 WEEKS FOR DELIVERY</td>
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Customer Instructions

Merchandise...: 1,627.70  
Tax.........: 122.96  
Misc Charges..: 32.55  
Quote Total...: 1,783.21

PURCHASER AGREES: (A) THAT THE SPECS SET FORTH ON THIS WORK ORDER ARE ACCURATE, AND (B) TO PAY THE FULL PURCHASE PRICE AS SHOWN ON THE WORK ORDER WITHIN THIRTY (30) DAYS OF THE DATE ON WHICH SOUTHERN LUMBER AND MILLWORK CORP. NOTIFIES THE PURCHASER THAT THE GOODS ARE READY FOR DELIVERY.

ASK FOR MATERIAL SAFETY DATA SHEETS

CUSTOMER SIGNATURE

__________________________________________

1,783.21
PROPOSED CHANGE ORDER

LYNDON STEEL COMPANY LLC
1947 Union Cross Road
Winston-Salem, NC 27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

TO: Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209

Attention: Walt Lewis
Phone: 919-788-2024 FAX: -

PROJECT: International African American Museum
Charleston, SC

DESCRIPTION

Added Steel Frame Rail at Atrium Stairs

NOC#: 42

DESCRIPTION | A/D | AMOUNT
--- | --- | ---
Added cost to furnish and install (2) sections of steel frame rail at Atrium Stairs per Bulletin #24.
See attached Change Order from M&C Metals, LLC for added material and erection cost.

*Cost does not include wood cap.

M&C Metal Works, LLC
Material
ADD $3,090

Install
ADD $2,250

Overhead & Profit
ADD $801

Bonding
ADD $65

TAX $278

This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.

Total This Change Order: $6,484

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

LSC PM: DeWitt Friedermann
LSC Signature: 02/01/21
e-mail: DFriedermann@lyndonsteel.com
Prepared By: Spencer Fleming

Please sign and return E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items. If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
Dewitt,

Please see change order request for changes to Atrium Stair per Bulletin 24. Please advise if we are to proceed. Please call if any questions.

1. ADD (2) SECTIONS OF STEEL FRAME RAIL AT ATRIUM STAIRS (PER BULLETIN 24). EXCLUDE WOOD CAP - TO BE BY OTHERS.

ADD FOR ITEM #1 $3,090.00
ADD FOR INSTALL #1 $2,250.00

M&C Metal Works, LLC
By Greg Harlow
# Estimate

## Rahaman's Painting and Repairs, LLC

**P.O. Box 60776**  
**North Charleston, South Carolina 29406**  
**United States**  
**843-327-3884**

### Bill To

**Turner Brownstone**  
Bobby Teachey II  
bteachey@bstonegroup.com

---

**Estimate Number:** 626  
**Estimate Date:** April 12, 2021  
**Expires On:** June 12, 2021

**Grand Total (USD):** $14,884.55

---

### Services

<table>
<thead>
<tr>
<th>Services</th>
<th>Price</th>
<th>Amount</th>
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</thead>
<tbody>
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<td><strong>Bulletin 16.3</strong></td>
<td>$9,048.00</td>
<td>$9,048.00</td>
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<tr>
<td>We propose to furnish labor and materials for the additional GWB walls in rooms G206 and G207 per plans and specs in bulletin 16.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bulletin 24</strong></td>
<td>$3,600.00</td>
<td>$3,600.00</td>
</tr>
<tr>
<td>We propose to furnish labor and materials for the additional steel spindles at atrium per plans and specs on bulletin 24</td>
<td></td>
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<tr>
<td><strong>RFI 573</strong></td>
<td>$350.00</td>
<td>$350.00</td>
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<tr>
<td>We propose to paint (1) 4'W, 2'H, 3.5'D framed, sheathed, painted black (Promar 200) enclosure in the adjacent corridor to G201 that lines up with the ceiling of G201.</td>
<td></td>
<td></td>
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<tr>
<td><strong>Stucco at Brick</strong></td>
<td>$7,765.00</td>
<td>$7,765.00</td>
</tr>
<tr>
<td>We propose to cut 1/4&quot; ceiling at brick then install backer rod and caulking to replace the use of the Z molding reveals per architects approval.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1/4&quot; joints CREDIT</strong></td>
<td>($13,590.45)</td>
<td>($13,590.45)</td>
</tr>
<tr>
<td>Credit for 1/4&quot; joints</td>
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<tr>
<td><strong>Additional Z Molding</strong></td>
<td>$7,712.00</td>
<td>$7,712.00</td>
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<tr>
<td>We propose to furnish and materials for the additional Z molding around the light fixtures on ground level ceiling per revised drawings dated 01/19/2021</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total:** $14,884.55

**Grand Total (USD):** $14,884.55

---

If you have any questions about this invoice, please contact Maryam, 843-276-2117, rahmanspainting_repairs@hotmail.com
To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 117 R2
Contract: Construction

Description of work to be performed: Raising Ceiling Per Design
This change is associated with the materials and labor of raising the ceiling elevation on the first floor to compensate for the camber in the structural steel.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $60,450.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:
Rick Holt, Cumming Corp.

Decision needed by: February 24, 2022

(No) (Yes) (Circle One)
Mike Risteski, Cumming Corp.

(No) (Yes) (Circle One)
Robert Faust, Cumming Corp.

(No) (Yes) (Circle One)
Edmund V. Most, City of Charleston

(No) (Yes) (Circle One)
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Raise Brick Angle, 1st Floor Ceiling, Etc per design team direction.</th>
</tr>
</thead>
</table>

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<th>Pricing:</th>
<th>ROM Estimate of GR’s &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing</th>
<th>Trade Contractors - See Detailed Estimates</th>
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<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
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<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
<th>Work Authorization is Requested By:</th>
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<th>$60,450</th>
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<th>Owner: City of Charleston</th>
<th>$60,450</th>
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</table>
**International African American Museum**

**General Summary of the Estimate**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$61,237.00</td>
<td>$55,821.00</td>
</tr>
<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
<td>$61,237</td>
<td>$55,821</td>
</tr>
<tr>
<td>A5</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>A6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A8</td>
<td>CCIP @ 2.50%</td>
<td>$1,530.93</td>
<td>$1,395.53</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard @ 0.012</td>
<td>$734.84</td>
<td>$669.85</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk @ 0.84%</td>
<td>$514.39</td>
<td>$468.90</td>
</tr>
<tr>
<td>A14</td>
<td>Performance and Payment Bond @ 0.00732</td>
<td>$448.25</td>
<td>$408.61</td>
</tr>
<tr>
<td>A11</td>
<td>Procore @ 0.04500%</td>
<td>$27.56</td>
<td>$25.12</td>
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</tbody>
</table>

Subtotal Directs Before OH+P

| A15    | Overhead and Profit @ 3.25%                             | $2,081.45                  | $1,660.95                  |

**ESTIMATE TOTAL**

| Subtotal | $66,574 | $60,450 |

**Reviewed By Chris Wilson 09/02/2021**
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
<td></td>
<td></td>
<td>$0</td>
</tr>
</tbody>
</table>

### TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raise Ceiling</td>
<td>$39,600.00</td>
<td>1</td>
<td>LS</td>
<td>$39,600.00</td>
</tr>
<tr>
<td>Raise Door Headers</td>
<td>$2,970.00</td>
<td>1</td>
<td>LS</td>
<td>$2,970.00</td>
</tr>
<tr>
<td>Brick Angle Raise</td>
<td>$18,666.80</td>
<td>1</td>
<td>LS</td>
<td>$13,251.00</td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** $55,821
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Raise Brick Angle, 1st Floor Ceiling, Etc per design team direction.

**Reason:**
- Owner Directive
- Code / Regulatory
- Unforeseen Condition
- Design Issue
- Unforeseen Condition

**Pricing:**
- ROM Estimate of GR’s & Insurances
- ROM Estimate for Entire PCO
- Firm Fixed Unit Pricing
- Lump Sum
- Firm Fixed Unit Pricing

**Time Impact:**
- Evaluating Potential for Time Impact
- Evaluated - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- Work Has Commenced &/or is Ongoing
- Work Authorization is Requested

**Submitted By:**
Walter Lewis  Project Engineer  08/17/2021  
Contractor: **TURNER BROWNSTONE**  
Amount Requested  $66,574

**Requested Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Reviewed By:**
Program Manager: **CUMMING**  

**Approved By:**
Owner: **City of Charleston**  
Amount Approved  $66,574  
$60,450
# International African American Muesum

## General Summary of the Estimate

**COR No.: 117**

### Detail Estimate of Directs

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal Trade Directs**: $61,237

**Subtotal**: $61,237

**Overhead and Profit**: 3.25% @ $61,237 = $2,081.45

**Estimate Total**: $66,574

---

**Total P Walls Directs Before OH+P**: $38,700

**Total P Walls Directs Plus OH+P**: $42,570

**Total Lyndon Directs Before OH+P**: $12,046

**Total Lyndon Directs Plus PH+P**: $13,251

**Total Directs Plus OH+P**: $55,821

**Total Directs before OH+P**: $51,106

**Turner OH+P**: $1,598.19

---

**Subtotal Trade Directs**

**CCIP** @ 2.50% = $1,530.92

**Subguard** @ 0.012 = $734.84

**Builders Risk** @ 0.84% = $514.39

**Performance and Payment Bond** @ 0.00732 = $448.25

**Procore** @ 0.04500% = $27.56

**Overhead and Profit** @ 3.25% = $2,081.45

---

**Estimate Total**: $66,574

---

O&P to be calculated on Subcontractor price w/o their O&P

---

**Reviewed By**: Chris Wilson
**09/02/2021**
**GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC's)**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
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**TRADE DIRECTS**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
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<th>UNITS</th>
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<tbody>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>1 Raise Ceiling</td>
<td>$39,600.00</td>
<td>1 LS</td>
<td>$39,600.00</td>
<td></td>
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<td>$2,970.00</td>
<td>1 LS</td>
<td>$2,970.00</td>
<td></td>
</tr>
<tr>
<td>Brick Angle Raise</td>
<td>$18,666.80</td>
<td>1 LS</td>
<td>$18,666.80</td>
<td>$13,250.6</td>
</tr>
</tbody>
</table>

Please provide breakdown of prices. There is no explanation why the COR has originated. Which areas were impacted by the change. Provide e mail or directive for the direction.
To: Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
Contact: Walt Lewis

Project: International African American Museum  
14 Wharfside Street  
Charleston, SC

Description: Raise the exterior ceiling 3/4" on 1st floor east

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
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<tbody>
<tr>
<td>Exterior Framing-DW</td>
<td>800.00</td>
<td>45.00</td>
<td>$36,000.00</td>
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Total Labor: $36,000.00

Subtotal for Detail: $36,000.00

Remove dense glass back to column line 3 Guys, 10 Hours Day, 7 Days 210 hours  
Cut and Remove Framing Clips, 2 Guys, 10 Hour Day, 5 Days - 100 Hours  
Reframe to new elevation 3 Guys, 10 Hour Day, 7 Days - 210 Hours  
Reinstall Dense glass - 4 Guys, 10 Hour Day , 7 Days - 280 Hours  
This is at the entire perimeter of the building, all windows and doors openings and at Balconies

---

Joel Ofsthun  
Project Manager

Sub Trade Total: $0.00  
Adjustments Total: $0.00  
Equipment Total: $0.00  
Misc. Total: $0.00  
Sub Total: $36,000.00  
Mark Up: $3,600.00  
Mark Up: 10.00%  
Total: $39,600.00
To: Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
Contact: Walt Lewis  

Project: International African American Museum  
14 Wharfside Street  
Charleston, SC  

Description: Raised window heads 3/4” 8 exterior and 8 interior windows 2nd floor labor only

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior Framing-DW</td>
<td>60.00</td>
<td>45.00</td>
<td>$2,700.00</td>
</tr>
<tr>
<td>Total Labor</td>
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<td>$2,700.00</td>
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</table>

Subtotal for Detail $2,700.00

Labor Total: $2,700.00  
Material Total: $0.00  
Sub Total: $2,700.00  
Mark Up: $270.00  
10.00%  

Total: $2,970.00

---

Joel Ofsthun
Project Manager
**INVOICE**

**Description:** Slot Holes in Lintels at Roof  
**Job:** 434 IAAM  
**Date:** 10-12-20, 10-13-20, 10-16-20, 10-22-20-10-23-20 and 10-26-20  
**Invoice Date:** 26-Oct-20

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<td>200Ton</td>
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<td>110 Ton</td>
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<td>100 Ton</td>
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**Equipment***  
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<td>Gen Pack</td>
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<td>$135.00</td>
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<td>LN25 Wire Weld</td>
<td>$25.00</td>
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<td>Compressor</td>
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<td>Forklift TH5208</td>
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<td>Man lift</td>
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<td>Scissor lift</td>
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**Manpower**  
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<td>Journeyman</td>
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<td>$4,550.00</td>
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<td>$472.50</td>
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<tr>
<td>Overtime</td>
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<td>$157.50</td>
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**Expendables**  
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<td>10%</td>
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<tr>
<td>Fuel</td>
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<td></td>
<td>$13,973.65</td>
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*NOTE: The above listed rates for equipment are subject to review on a case by case basis due to minimum rental durations and costs in some instances.
Date: 10-12-20

Authorization for payment and commencement of work

From: CAS Steel

Brief Description and Location of Work: Laser drum lintel slot holes, Raise 34"

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Description of Material or Equipment</th>
<th>Unit Price</th>
<th>Extension</th>
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<td>HCR boost truck</td>
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Total Material $________

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<th>Code</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Extension</th>
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<tbody>
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<td>Tim Castro</td>
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<td>James Castro</td>
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</table>

Hours to Date: 12

Work Approved as Complete: [Signature]

Supervisor: D. Hardin

Safety

Total Labor

Other Directed Costs

TOTAL $________

This extra work order may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.

REV DATE 25 OCT 2016
**EXTRA WORK ORDER**

Date: **10-13-20**

To: **CAS Steel**

From: **CAS Steel**

Authorization for payment and commencement of work

Signature __________________________ Date __________

Title __________________________

**Brief Description and Location of Work:**
Complete slotting holes in lintel and reinstalling. Removing sheetrock and plywood around 2 south side windows

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Description of Material or Equipment</th>
<th>Unit Price</th>
<th>Extension</th>
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<tbody>
<tr>
<td>10 hrs</td>
<td>60'</td>
<td>Beam Lift</td>
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**Total Material $**

<table>
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<tr>
<th>Name</th>
<th>Code</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Hardin</td>
<td></td>
<td>10</td>
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Hours to Date: **30**

Work Approved as Complete Signature __________________________ Date __________

Title __________________________ Date __________

Signature __________________________ Date __________

Incomplete: ________________ Complete: ________________

This extra work order will/may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.

**REV DATE 25 OCT 2016**
**EXTRA WORK ORDER**

**Date:** 10-16-20

**To:**

**From:** CAS Steel

**Authorization for payment and commencement of work**

**Signature**

**Title**

**Date**

**Brief Description and Location of Work:**

Started slotting holes and raising lintels 3/4 inch east end of Bldg.

<table>
<thead>
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<th>Unit</th>
<th>Description Of Material or Equipment</th>
<th>Unit Price</th>
<th>Extension</th>
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**Total Material $**

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<tr>
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<th>Code</th>
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<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
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<th>Rate</th>
<th>Extension</th>
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</thead>
<tbody>
<tr>
<td>D. Hardin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.5</td>
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<tr>
<td>Jim Castro</td>
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<td>7.5</td>
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<tr>
<td>Jaime Castro</td>
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</table>

**Hours to Date:** 30

**Work Approved as Complete Signature**

**Safety**

**Total Labor**

**Other Directed Costs**

**TOTAL $**

**Supervisor:** D. Hardin

This extra work order will/may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.
CAS Steel Erectors, LLC
237 Duncan Hill Rd.
Hendersonville, NC 28792
828-697-8877
828-697-8888

EXTRA WORK ORDER

Date: 10-22-20

Authorization for payment and commencement of work

To: 

Signature

From: CasSteel

Title Date

Brief Description and Location of Work: Removing sheet rock away from brick lintel & slotting holes in lintel

<table>
<thead>
<tr>
<th>Quantity</th>
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<th>Description of Material or Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7</td>
<td>60' Boom Lift</td>
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Total Material $_____

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<th>Tue</th>
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</table>

Hours to Date: 28

Work Approved as Complete Signature

Title Date

Signature Date

Incomplete Complete

This extra work order will/may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.

EV Date: 25 Oct 2016
Date: 10-23-20

Authorization for payment and commencement of work

To: ____________________________

Signature _______________________

From: CAS Steel

Title __________________________ Date __________

Brief Description and Location of Work: Slotting holes in Brick lintel west end of Bldg

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Total Material $ __________

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<th>Thu</th>
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<th>Extension</th>
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<tbody>
<tr>
<td>D. Hardin</td>
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<td>Tim Castro</td>
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<td>Thadious F.W.</td>
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</table>

Hours to Date 26

Work Approved as Complete Signature

Title __________________________ Date __________

Signature __________________________ Date __________

Incomplete Complete

This extra work order will/may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.

Supervisor __________________________

Safety __________________________

Total Labor __________________________

Other Directed Costs __________________________

TOTAL $ __________

REV DATE 25 OCT 2016
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 119  
Contract: Construction

Description of work to be performed: MEP Changes - Bulletin 28
This change is associated with the material and labor to lighting changes as per the Bulletin 28
The bulletin directs the removal of installation of four A54 fixtures, conduits and wiring.
The credit for the fixtures is not included since they have been purchased and will be given as attic stock.
This bulletin is connected to the VE of the HVAC system. Added legging to EF-1 and EF-2

Justification: B - Code/Regulatory Agency Required Change

Attachments:  
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): ($982.00) Owner Contingency Allow. Bal.
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by:  

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 28 They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:
- [X] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [X] Design Issue

Pricing:
- [ ] ROM Estimate of GR’s & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT

Work Description:
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [X] Work Authorization is Requested

Submitted By: Contractor: TURNER BROWNSTONE 04/15/21 ($982)

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston ($982)
# International African American Muesum

## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
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<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) SELF PERFORMED LABOR</td>
<td>$0</td>
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<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) MATERIAL(S) &amp; EQUIPMENT</td>
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<td>A3</td>
<td>TRADE DIRECTS</td>
<td>($903.00)</td>
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<tr>
<td>A4</td>
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<td>SUBTOTAL TRADE DIRECTS</td>
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<th>SUBTOTAL</th>
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<tbody>
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<td>($903)</td>
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<table>
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<td>2.50% = ($22.58)</td>
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<td>0.012 = ($10.84)</td>
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<td>0.84% = ($7.59)</td>
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<td>0.00732 = ($6.61)</td>
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<td>0.04500% = ($0.41)</td>
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<td>3.25% = ($30.69)</td>
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<th>ESTIMATE TOTAL</th>
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<td>($982)</td>
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### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

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### TRADE DIRECTS

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<td>Additional Scope of Work</td>
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<tr>
<td>1. SMS - Bulletin 28 Changes</td>
<td>$2,669.00</td>
<td>LS</td>
<td>$2,669.00</td>
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<td>2. Watson - Bulletin 28 Changes</td>
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**DIRECT WORK SUBTOTAL**: $-903
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

SCOPE OF WORK:
Bulletin #28

Delete installation of (4) AE4 fixtures, conduit, wiring.
Relative controls will become spares or circuit load will be reduced by (4) AE4 fixture loads.
No credit for light fixtures. They have been received and in storage since November 2020.
Includes credit for labor to install of AE4 fixtures.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 0 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_34>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
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<tbody>
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<td>-300.86</td>
<td>-7.85</td>
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<tr>
<td>3/4” CONN COMP STL - EMT</td>
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<td>-32.47</td>
<td>-1.00</td>
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<tr>
<td>3/4” COUPLING COMP STL - EMT</td>
<td>-18</td>
<td>-84.30</td>
<td>-2.16</td>
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<tr>
<td>1/2 OR 3/4” SNAP CLOSE CLIP - BTM MNT ON 1/4” FLNG HNGR</td>
<td>-19</td>
<td>-38.34</td>
<td>-1.56</td>
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<tr>
<td>1/2 OR 3/4” CONDUIT+BOX SUPPORT - BTM MNT ON 1/4” FLNG HNGR</td>
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<td>-25.66</td>
<td>-0.37</td>
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<td>#10 THHN SOLID BLACK</td>
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<td>-493.33</td>
<td>-5.48</td>
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<td>#12/2C CABLE MC - STL ARMOR</td>
<td>-30</td>
<td>-25.83</td>
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<tr>
<td>3/8” CONN SADDLEGRIP DC FOR FLEX / AC-90 / MC</td>
<td>-8</td>
<td>-8.69</td>
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<td>WIRE CONN RED</td>
<td>-24</td>
<td>-5.45</td>
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<td>4” SQ BLANK COVER</td>
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<td>#8x 1/2 WAFER HEAD SELF-TAP STUD SCREW - 12G</td>
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Summary

General Materials                                      | -1,102.43 |
Material Tax (@ 9.000 %)                                | -99.22    |
Material Total                                         | -1,201.65 |
JOURNEYMAN (-29.86 Hrs @ $45.00)                        | -1,343.70 |

ORIGINAL
**PROPOSED CHANGE ORDER**

<table>
<thead>
<tr>
<th>Description</th>
<th>Hours/Units</th>
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<tbody>
<tr>
<td>FOREMAN</td>
<td>-4.48 Hrs  @ $50.00</td>
<td>-224.00</td>
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<tr>
<td>PM&amp;S</td>
<td>-34.34 @ 0.00 @ $6.00 + 0.000 % + 0.000 % + 0.000 %</td>
<td>-206.04</td>
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<td>VDC</td>
<td>-34.34 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %</td>
<td>-34.34</td>
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<tr>
<td>VEHICLES</td>
<td>-34.34 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %</td>
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<tr>
<td>CONSUMABLES</td>
<td>-34.34 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %</td>
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**Subtotal** -3,105.88

**Overhead** (@ 15.000 %) -465.88

**Subtotal** -3,571.76

**Final Amount** $-3,571.76

---

**CONTRACTOR CERTIFICATION**

**Name:**

**Date:**

**Signature:**

I hereby certify that this quotation is complete and accurate based on the information provided.

---

**CLIENT ACCEPTANCE**

**PCO #** 34

**Final Amount:** $-3,571.76

**Name:**

**Date:**

**Signature:**

**Change Order #:**

I hereby accept this quotation and authorize the contractor to complete the above described work.
Proposal Request Form

**Name of Subcontractor:** Superior Mechanical Systems  
**Contract Number:**  
**Name of Project:** African American Museum  
**Date:** 2/6/2020  

**Description of Change:**  
Attach Additional Sheets as Necessary  
Bulletin 28 (sound lagging for 2 exhaust fans)

<table>
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<th>SUB-CONTRACTOR</th>
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<td>PROPOSAL TOTAL (Sum of Lines 7 and 10)</td>
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**Additional Contract Time Required** (Impact to Project Critical Path)  
Days: ________________

**Submitted By:**  
Contractor’s Representative  
Date: ________________
## Proposal Request Form

### Itemized Product Breakdown

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**SUBTOTAL** $125.93

Sales Tax $125.93

**SUBTOTAL** $125.93
## Proposal Request Form

### Itemized Equipment Breakdown

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**SUBTOTAL** $ -
## Proposal Request Form

### Itemized Labor Breakdown

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<td><strong>SUBTOTAL</strong></td>
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<td>$2,400.00</td>
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</table>
BULLETIN #028

PROJECT: IAAM
PROJECT NO.: 15490
TO: Bobby Teachey

BULLETIN: #028
DATE: January 12, 2021
FROM: Bernie Costantino

DESCRIPTION:
During the VE phase the HVAC system was revised from Heat pumps to VAVs. Heat pumps required enclosures to meet target NC criteria in the galleries. When the heat pumps were removed it was assumed that all enclosures could be removed but EF-1 and EF-2 still require enclosures. Adding lagging to EF-1 and EF-2 meets the target NC criteria for galleries.

During VE the display cases were deleted and TV monitors added in Lobby Niche. During the coordination of L2 it was noted the lights for this display case were not coordinated with metal panels shop drawings. After reviewing it was determined these would not be required with added TV screens. Provide credit for the deleted lights.

DRAWINGS:
MECHANICAL
M-402M-A Mechanical Level 02M HVAC Plan Part A
  • Added keynote 9 to EF-1 and EF-2
M-804 Mechanical Details Sheet 4
  • Added detail 8 – Exhaust Fan Unit Limp Mass Lagging Detail

ELECTRICAL


Each affected contractor is to provide detailed pricing for both labor and material. If the contractor is not affected by the scope of this change, the contractor shall indicate no costs. The contractor shall notify the Architect within 10 working days of any costs that are expected to be incurred. If no response is received within 10 working days, it will be assumed there is no effect to the contractor’s contract.

DISTRIBUTION:
Rick Davis
Bri’Shae Anderson
Walt Lewis
Edmund Most
Rick Holt
Robert Faust
Jonathan Roberts
Julie Cook
Bob Larrimer
ELECTRICAL LEVEL 02 LIGHTING PLAN PART A

GENERAL NOTES

1. REFER TO SPECIFICATION SHEET FOR FIXTURE SCHEDULE.
2. AE3 COVE FIXTURES TO BE MOUNTED 4" MIN. FROM FACE OF WALL.
3. PROVIDE 16A MAX CURRENT LIMITING DEVICE FOR EACH TRACK LIGHTING BRANCH CIRCUIT. COORDINATE EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
4. PROVIDE 400W (MAX) FIXTURES FOR EACH ISLAND. REFER TO CIRCUIT LOCATIONS SHEET FOR LOCATION INFORMATION. VARIOUS ISLAND LOCATION SHEETS ARE ATTACHED TO THE SHEET.
5. PROVIDE 400W (MAX) FIXTURES FOR EACH ISLAND. REFER TO CIRCUIT LOCATIONS SHEET FOR LOCATION INFORMATION. VARIOUS ISLAND LOCATION SHEETS ARE ATTACHED TO THE SHEET.
6. PROVIDE 400W (MAX) FIXTURES FOR EACH ISLAND. REFER TO CIRCUIT LOCATIONS SHEET FOR LOCATION INFORMATION. VARIOUS ISLAND LOCATION SHEETS ARE ATTACHED TO THE SHEET.
7. PROVIDE 400W (MAX) FIXTURES FOR EACH ISLAND. REFER TO CIRCUIT LOCATIONS SHEET FOR LOCATION INFORMATION. VARIOUS ISLAND LOCATION SHEETS ARE ATTACHED TO THE SHEET.
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 10/7/2021  
Contractor: Turner Construction Company

Proposal No.: Change Order Request No. 129 R3

Project: CP 1425 International African American Museum

Contract: Construction

Description of work to be performed: Skylight Plate for Lighting (RFI 384)

This change is associated with the labor for the installation of additional plates to the skylight structure to support the lighting fixtures.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager, Independent Cost Estimate, Pre-Negotiation Position (PNP), Cost Estimate (Expected to Exceed $10,000), Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $3,314.00  Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan

Decision needed by: October 7, 2021

Mike Risteski, Cumming Corp.
To: Edmund Most  
City of Charleston

Re: International African American Muesum

Skylight Plate Changes per RFI 384

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with RFI 384. Skylight plates changed from a smaller to a bigger size. New size was updated to 16" x 16". They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and will be submitted based on the new findings. Work in the field cannot start without signed change order.


Pricing: [ ] ROM Estimate of GR's & Insurances  [ ] ROM Estimate for Entire PCO  [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [ ] Evaluating Potential for Time Impact  [ ] Evaluated - NO TIME IMPACT  [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Work Authorization is Requested By:

Submitted By: Contractor: TURNER BROWNSTONE

Walter Lewis  Project Engineer  October 5, 2021  $3,314  Dated

Requested Action:

Authorized to Proceed While Pricing  [ ] Price Only  [ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

/ /  Dated

Authorized Action:

Authorized to Proceed While Pricing  [ ] Price Only  [ ] Do Not Proceed or Price

Approved By: Owner: City of Charleston

/ /  $3,314  Dated  

Amount Approved
### International African American Muesum

#### General Summary of the Estimate

**COR No.:** 129

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
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**SUBTOTAL TRADE DIRECTS**  $3,069

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**ESTIMATE TOTAL**  $3,314

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**Note:** The summary includes various insurance and bond costs, as well as overhead and profit, to arrive at the total estimate.
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

**DESCRIPTION**

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<tr>
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<th>Unit</th>
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<tr>
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### TRADE DIRECTS

**DESCRIPTION**

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| TOTAL | $3,069 |

DIRECT WORK SUBTOTAL $3,069
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with RFI 384. Skylight plates changed from a smaller to a bigger size. New size was upated to 16" x 16". They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing

**Work Authorization is Requested By:**

**Submitted By:**
**Contractor:** TURNER BROWNSTONE

**09/03/21**
Walter Lewis  Project Engineer  Dated

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Amount Requested:**
$4,713

**Reviewed By:**
**Program Manager:** CUMMING

**Dated**

**Approved By:**
**Owner:** City of Charleston

**Dated**

**Amount Approved:**
$4,713
# International African American Muesum
## General Summary of the Estimate

### COR No.: 129

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### SUBTOTAL
- $5,476.00
- $4,359.00

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### Subtotal Before OH+P

- $3,790.00

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<th>Amount</th>
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### ESTIMATE TOTAL
- $5,953.00
- $4,713.00

Reviewed By
Chris Wilson
09/02/2021
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<td>LS</td>
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$4,359

DIRECT WORK SUBTOTAL $4,359
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with RFI 384. Skylight plates changed from a smaller to a bigger size. New size was updated to 16” x 16”. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start without signed change order.

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>Pricing</td>
<td>ROM Estimate of GR’s &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
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<tr>
<td>Time Impact</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
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<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
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**Submitted By:**
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<th>Walter Lewis Project Engineer</th>
<th>Contractor: TURNER BROWNSTONE</th>
<th>Requested Action:</th>
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**Reviewed By:**
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**Approved By:**
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<th>Owner: City of Charleston</th>
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# International African American Muesum
## General Summary of the Estimate

### COR No.: 129

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**SUBTOTAL TRADE DIRECTS** | **$5,476.00** |

**ESTIMATE TOTAL** | **$5,953.00**

---

**Details**

- Total Trade Directs Before OH+P $3,790.00
- Total Trade Directs After Corrections $4,359

**Reviewed By**

Chris Wilson
08/27/2021

---

**CCIP**

@ 2.50% = **$136.90**

**Subguard**

@ 0.012 = **$66.74**

**Builders Risk**

@ 0.84% = **$46.00**

@ 0.00732 = **$40.08**

**Procore**

@ 0.04500% = **$2.46**

**Overhead and Profit**

@ 3.25% = **$123.18**

---

**SUBTOTAL** | **$5,476.00**

**ESTIMATE TOTAL** | **$5,953.00**
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

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### TRADE DIRECTS

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**DIRECT WORK SUBTOTAL** $5,476 $4,359

COR Rejected by MN - additional notes on scope page
PROPOSED CHANGE ORDER

LYNDON STEEL COMPANY LLC
1947 Union Cross Road
Winston-Salem, NC  27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

PROPOSED CHANGE ORDER #: 21
REVISION #: N/A
LSC CONTRACT #: 19041
DATE: 09/03/20

TO: Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209

Attention: Walt Lewis
Phone: 919-788-2024
FAX: -

PROJECT: International African American Museum
Charleston, SC

DESCRIPTION
Added cost due to receipt of RFI #384 response dated 7/22/20.
Added (8) 1/4” plates for light support posts.
Reference LSC Drawing E15005.
See attached Proposed Detailing Extras Forms for additional description of revision detailing.
Also, attached find Email from CAS Steel for added erection cost.

Plates are in GMP
Refer to
A-802
A-805-4 (Detail 4 & 5)
Only approved amounts
- Material
- Shop Labor
- Detailing
MR - 8/20/21

GMP pricing included shop installed we had to shop fab ship to site and then install.

Materials
Shop Labor
Detailing
Freight
Erection - CAS Steel
Overhead & Profit
Bonding

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<td>TAX</td>
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This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.

Total This Change Order: $5,476

LSC PM: DeWitt Friedermann
e-mail: DFriedermann@lyndonsteel.com
Prepared By: Spencer Fleming

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

Turner Const Signature: Date: 09/03/20
LSC Signature: Date: 09/03/20

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company.
Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.
If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.

L:\007 LSC PROJECTS\2019\5041 INTERNATIONAL AFRICAN AMERICAN MUSEUM (CHARLESTON, SC)\Accounting\1-Final PCS - International African American Museum - Charleston, SC.xlsm C021
Source of Change: iaam-rfi_384-lyndon_skylight_plate_clarification-PCF-P.pdf

Added (8) post shop attached top and bottom steel plate for lighting fixture on top of skylight tube.

General Description of Change:
Added (8) post shop attached top and bottom steel plate for lighting fixture on top of skylight tube.

List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision

<table>
<thead>
<tr>
<th>Added (2) post shop drawings.</th>
<th>Detail Hrs.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>2.5</td>
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</table>

List of REVISED PIECE MARKS & Status

| Added (2) post shop drawings and revised (1) E drawing. | Shop Drawing Status | 3 |

Total Detailing Hours this sheet: 5.5

Total Impact to Schedule, ALL sheets: 7

Total Checking Hours this sheet: 1.5

Total Hours this sheet: 7

Detailing Coord. Review: ____________________________

Project Manager Acceptance: (Signature) (Dated)

NOTE: The detailer is not to proceed with changes until this form is signed and returned.

For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

NOTE: The Detailer has the option of using their standard company form if all the above information is included.

Fax to: Detaller CC: PM, PC, NOC Estimator Original: BB
Spencer Fleming

From: Doug Edwards <Doug@cassteel.com>
Sent: Monday, August 31, 2020 7:54 AM
To: DeWitt Friedermann
Cc: Reginald McLaughlin; Spencer Fleming
Subject: Re: 9041 IAAM: RFI #384 Response - Lyndon: Skylight Plate Clarification - NOC 26

* External Email Address*

$2,500.00.

Best Regards:

Douglas Edwards
Project Manager
CAS Steel Erectors, LLC
Office (828) 697-8877
Fax (828) 697-8888
Cell (828) 545-4228
doug@cassteel.com

On Aug 28, 2020, at 8:18 AM, DeWitt Friedermann <DFriedermann@lyndonsteel.com> wrote:

<E15005.pdf>
Lyndon: Skylight Plate Clarification

TO:    Bernard Costantino (Moody Nolan)
       Julie Cook, AIA (Moody Nolan)

FROM:  Bri'Shae Anderson (Turner Construction (CAR))
        4601 Park Road, Suite 601
        Charlotte, North Carolina 28209

DATE INITIATED:  07/23/2020

LOCATION:        

PROJECT STAGE:   

SUB JOB:         

COST IMPACT:     

DRAWING NUMBER:  805-4

LINKED DRAWINGS: 

RECEIVED FROM:  DeWitt Friedermann (Lyndon Steel)

COPIES TO:      Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), DeWitt Friedermann (Lyndon Steel), Rick Hilgendorf (Lyndon Steel), Jonathan Roberts (Cumming)

Question from Bri'Shae Anderson (Turner Construction (CAR)) at 02:54 PM on 07/23/2020

Pleas clarify welding requirements for 5.5 x 5.5 x 1/8" plate and color? Stitch wled?

Are these located only where the lights take place?

Attachments:
A-805-4_SKYLIGHT - PARAPET DETAILS Rev.0 markup.pdf

Awaiting an Official Response

All Replies:

PCF-P: Please see attached detailed drawings to coordinate steel plates with lighting fixtures, junction boxes, conduits and added steel posts for skylight.

Same drawings were issued on 07-22-2020 as part of Skylight SD response
NOTE:
1. SIZE OF CONDUIT TUBE (EMT) AND JUNCTION BOX TO BE VERIFIED BY CONTRACTORS AND CONFIRMED BY SHOP DRAWING.

2. RESERVATIONS FOR EMT OR JUNCTION BOX INSTALLATION TO STRUCTURAL FRAME (BEAM) TO BE MADE IN THE SHOP. (PRE-DRILL FOR SCREWS, ETC.) TO BE COORDINATED BY CONTRACTORS.

3. FOR 16" x 16" x 3/4" STEEL PLATE, INSTALLATION BY SCREWS IS DESIRABLE, BUT IT CAN BE DONE BY WELDING. TO BE VERIFIED BY CONTRACTORS, INCLUDE SIZE, TYPE AND LOCATION OF SCREWS OR WELDING.

4. RESERVATIONS FOR LIGHTING FIXTURE INSTALLATION TO 16" x 16" x 3/4" STEEL PLATE TO BE MADE IN THE SHOP. (WIRING HOLE, PRE-DRILL FOR SCREWS, ETC.) TO BE COORDINATED BY CONTRACTORS.

5. OTHER RESERVATIONS ON STRUCTURAL FRAMES TO BE MADE IN THE SHOP, INCLUDE PRE-DRILL FOR STEEL POST INSTALLATION.

6. SIZE OF BASE PLATE AND SIZE/TYPE OF BOLT FOR STEEL POST INSTALLATION TO BE VERIFIED AND CONFIRMED BY WINDOW CONTRACTOR ENGINEER.
1. SIZE OF CONDUIT TUBE (EMT) AND JUNCTION BOX TO BE VERIFIED BY CONTRACTORS AND CONFIRMED BY SHOP DRAWING.

2. RESERVATIONS FOR EMT OR JUNCTION BOX, INSTALLATION TO STRUCTURAL FRAME (BEAM) TO BE MADE IN THE SHOP. (PRE-DRILL FOR SCREWS, etc.) TO BE COORDINATED BY CONTRACTORS.

3. FOR 16" x 16" x 1 1/2" STEEL PLATE, INSTALLATION BY SCREWS IS DESIRABLE, BUT IT CAN BE DONE BY WELDING. TO BE VERIFIED BY CONTRACTORS, INCLUDE SIZE, TYPE AND LOCATION OF SCREWS OR WELDING.

4. RESERVATIONS FOR LIGHTING FIXTURE INSTALLATION TO 16" x 16" x 1 1/2" STEEL PLATE TO BE MADE IN THE SHOP. (WIRING HOLE, PRE-DRILL FOR SCREWS, etc.) TO BE COORDINATED BY CONTRACTORS.

5. OTHER RESERVATIONS ON STRUCTURAL FRAMES TO BE MADE IN THE SHOP, INCLUDE PRE-DRILL FOR STEEL POST INSTALLATION.

6. SIZE OF BASE PLATE AND SIZE/TYPE OF BOLT FOR STEEL POST INSTALLATION TO BE VERIFIED AND CONFIRMED BY WINDOW CONTRACTOR ENGINEER.

7. SPRINKLER PIPE TO BE SUSPENDED FROM STRUCTURAL FRAME (BEAM), RESERVATIONS (PRE-DRILL FOR SUSPENSION FITTINGS, etc.) TO BE COORDINATED BY CONTRACTORS, AND CONFIRMED BY SHOP DRAWING.

SKYLIGHT WINDOW, STRUCTURAL FRAME AND LIGHT FIXTURE (AE7) CEILING PLAN DETAIL

IAAM
2020.07.21 PCF/HM
1. Size of conduit tube (EMT) and junction box to be verified by contractors and confirmed by shop drawing.

2. Reservations for EMT or junction box, installation to structural frame (beam) to be made in the shop. (Pre-drill for screws, etc.) to be coordinated by contractors.

3. For 16" x 16" x 2" steel plate, installation by screws is desirable, but it can be done by welding. To be verified by contractors, include size, type and location of screws or welding.

4. Reservations for lighting fixture installation to 16" x 16" x 2" steel plate to be made in the shop. (Wiring hole, pre-drill for screws, etc.) to be coordinated by contractors.

5. Other reservations on structural frames to be made in the shop, include pre-drill for steel post installation.

6. Size of base plate and size/type of bolt for steel post installation to be verified and confirmed by window contractor engineer.

7. Sprinkler pipe to be suspended from structural frame (beam). Reservations (pre-drill for suspension fittings, etc.) to be coordinated by contractors, and confirmed by shop drawing.

8. Condensation gutter to be integrated with window frame.
**Change Order Proposal Review Form**

To: Edmund V. Most  
From: Mike Ristaski  
Date: 7/12/2021  
Contractor: Turner Construction Company

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 132  
**Contract: Construction**

### Description of work to be performed:

<table>
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<th>Structural Steel @ Pump House</th>
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<tbody>
<tr>
<td>A - Customer Requested Change</td>
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<tr>
<td>B - Code/Regulatory Agency Required Change</td>
</tr>
<tr>
<td>C - Errors and Omissions</td>
</tr>
<tr>
<td>D - Replacing Unsuitable Soils</td>
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<tr>
<td>E - Soils Related Change Other</td>
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<tr>
<td>F - Unforeseen Conditions</td>
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<td>G - Time Related Change</td>
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<tr>
<td>H - Liquidated Damages</td>
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<tr>
<td>I - Value Engineering Change</td>
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<tr>
<td>J - Exercising Pre-Priced Option (Allowance)</td>
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<tr>
<td>K - Accounting Error</td>
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**Justification:** A - Customer Requested Change

### Attachments:

- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)  
- Cost Estimate (Expected to Exceed $10,000)  
- Change Proposal Request from CMR with Detailed Backup

### Proposal Cost (not to exceed):

$8,883.00  
**Owner Contingency Allow. Bal.**

### Time Extension Requested:

$8,883.00  
**Time Extension Recommended:**

### Special Circumstances:

### Consequence of Rejection:

### Comments by Supervisor:

Approved:

- Edmund V. Most, Chief of Charleston
- Bernard Costantino, Moody Nolan

**Decision needed by:** July 12, 2021

- Mike Ristaski, Cumming Corp.
- Robert Faust, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and layout Structural Steel at the Pumphouse. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason: ☒ Owner Directive
☐ Code / Regulatory
☐ Unforeseen Condition
☐ Design Issue

Pricing: ☐ ROM Estimate of GR’s & Insurances
☐ ROM Estimate for Entire PCO
☐ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: ☐ Evaluating Potential for Time Impact
☐ Evaluated - NO TIME IMPACT
☐ Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Work has been Completed ☐ Work Has Commenced &/or is Ongoing ☐ Work Authorization is Requested By:

Submitted By: Walter Lewis Project Engineer

Contractor: TURNER BROWNSTONE

Dated 06/17/2021

$8,883 Amount Requested

Reviewed By: Program Manager: CUMMING

Authorized Action:

Authorized to Proceed While Pricing ☐
Price Only ☐
Do Not Proceed or Price ☐

Authorized Action:

Authorized to Proceed While Pricing ☐
Price Only ☐
Do Not Proceed or Price ☐

Approved By: Owner: City of Charleston

Dated

$8,883 Amount Approved
## International African American Muesum
### General Summary of the Estimate

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<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<td>Procore @ 0.04500%</td>
</tr>
<tr>
<td>A15</td>
<td></td>
<td>Overhead and Profit @ 3.25%</td>
</tr>
</tbody>
</table>

| SUBTOTAL | $8,171 |

| SUBTOTAL | $204.27 |
| Subguard | $98.05 |
| Builders Risk | $68.63 |
| Performance and Payment Bond | $59.81 |
| Procore | $3.68 |
| Overhead and Profit | $277.72 |

<p>| ESTIMATE TOTAL | $8,883 |</p>
<table>
<thead>
<tr>
<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
<td></td>
<td></td>
<td></td>
<td>$0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$0</td>
</tr>
</tbody>
</table>

| TRADE DIRECTS | |
| DESCRIPTION | Additional Scope of Work |
| 1 | To Supply and Install Structural Steel at Pumphouse | $8,170.75 | 1 | LS | $8,170.75 |

$8,171

DIRECT WORK SUBTOTAL $8,171
**BILL TO:**
Turner Construction  
wlewis@tcco.com  
Walter Lewis

**SHIP TO:**
International African American Museum  
Concord St and Inspection St  
Charleston SC 29403

<table>
<thead>
<tr>
<th>Customer</th>
<th>Job</th>
<th>Purchase Order</th>
<th>Terms</th>
<th>Sales Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>38.89203</td>
<td>4700147880</td>
<td>Net 30 Days</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DESCRIPTION**
Strutural steel work under slab per instructions from City of Charleston

$8,170.75

CHECK POLICY: If your check is dishonored or returned for any reason, you agree to pay a service fee of $30, or any higher amount allowed by law, and we may electronically debit/draft your account for this fee.

Total This Invoice $8,170.75
This will also be a CO...guessing we need to look at the docs that I left on Linda’s desk to see what the CO mark up is and then we create this one and the textura and the hours that paul worked extra as three separate ones.

---

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Wednesday, May 26, 2021 5:54 PM
To: Lisa Phillips <liphilips@gregoryelectric.com>
Subject: FW: [External] Question for You

Lisa,

Here is the pricing for the steel changes.

Thanks
Walt

---

Walter Lewis | Project Manager
Turner Construction Company
Mobile: 704.936.8991
Email: wlewis@tcco.com

---

From: Craig Sherrill <csherrill@steelfab-inc.com>
Sent: Wednesday, May 26, 2021 9:14 AM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: RE: Question for You

Walt,

See below pricing. Let me now if this works and I will move forward to have material ready to install week of 6/7.

Also, see attached. Can you provide the missing dimension noted with red cloud? And do you need approval drawings, or can we skip that and just send field use drawing?

- Material (Delivered): $2,775
- Install: $4,830
- TOTAL: $7,105

Thanks,
Craig

---

Markup 5%
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 133
Contract: Construction

Description of work to be performed: Bus Loop Added Scope
This change is associated with the design and build of the bus loop next to the IAAM.
The scope of the project involves the replacement of 500ft sidewalks and 95ft of granite curb installation.
The demolition of the old sidewalks is also part of the scope.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $45,393.00
Owner Contingency Allow. Bal.

Time Extension Requested: ____________
Time Extension Recommended: ____________

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:
Mike Risteski, Cumming Corp.

Decision needed by: July 12, 2021
Mike Risteski, Cumming Corp.
Date Submitted: June 17, 2021

To: Edmund Most  
City of Charleston

Re: International African American Museum

Bus Loop Added Scope

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and layout the new Bus Loop. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &amp;/or correspondence attached. The design has started and will be submitted based on the new findings. Work in the field can not start with out signed change order.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner Directive</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work has been completed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amount Requested:</th>
</tr>
</thead>
<tbody>
<tr>
<td>$45,393</td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis  
Project Engineer  06/17/2021

Reviewed By:  
Program Manager: CUMMING

Approved By: Edmund Most  
Owner: City of Charleston

Authorized Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Requested Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Amount Approved: $45,393
# International African American Muesum
## General Summary of the Estimate

**COR No.:** 133

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td>A5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A8</td>
<td>CCIP @ 2.50% =</td>
<td>$1,043.85</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard @ 0.012 =</td>
<td>$501.05</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk @ 0.84% =</td>
<td>$350.73</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond @ 0.00732 =</td>
<td>$305.64</td>
</tr>
<tr>
<td>A14</td>
<td>Procore @ 0.04500% =</td>
<td>$18.79</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit @ 3.25% =</td>
<td>$1,419.22</td>
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</table>

**ESTIMATE TOTAL** $45,393
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</strong></td>
<td></td>
<td></td>
<td>$0</td>
</tr>
<tr>
<td><strong>TRADE DIRECTS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DESCRIPTION</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Design of the Bus Loop</td>
<td>$12,350.00</td>
<td>1 LS</td>
<td>$12,350.00</td>
</tr>
<tr>
<td>2 Installation of the Bus Loop</td>
<td>$29,404.00</td>
<td>1 LS</td>
<td>$29,404.00</td>
</tr>
<tr>
<td><strong>DIRECT WORK SUBTOTAL</strong></td>
<td></td>
<td></td>
<td>$41,754</td>
</tr>
</tbody>
</table>
Turner Construction Company

AGREEMENT TO PROVIDE PROFESSIONAL SERVICES

Issuing Office: Carolinas

Project Name: International African American Museum

Project Number: 190795

The terms and conditions of the Form 380 Office REV 07-31-20 shall govern this Contract with the exception of those modifications listed below:

This Agreement ("Agreement") is made as of this 11th day of January 2021 by and between Forsberg Engineering & Surveying, Inc., hereinafter called ("Provider") with offices located at 1587 B Savannah Hwy Charleston SC 29407 and Turner Construction Company a NY Corporation with offices located at: 4601 Park Road - Suite 601 Charlotte, NC, 28209

Contact: Mike Johnson
Telephone: (843) 571-2622
Fax:

The Project

The services to be provided under this Agreement are for the following Project ("Project"): International African American Museum

Services of the Provider

Provider shall perform the following Services ("Services") in accordance with the terms of this Agreement and any applicable laws, codes, ordinances, rules or regulations: Vendor to provide Bus Drop Off Design Services; see attached Additional Provisions for scope:

Time of Performance

01/11/2021 - Start Date
04/30/2021 - Completion Date

Providers Compensation

Provider's compensation shall be TWELVE THOUSAND THREE HUNDRED FIFTY Dollars, $12,350.00

Insurance

Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Turner Construction Company, shall be in place and maintained until completion and final acceptance of the Work:

1. WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY INSURANCE in accordance with laws of the State in which the Work is situated.

2. COMMERCIAL GENERAL LIABILITY INSURANCE INCLUDING COMPLETED OPERATIONS, CONTRACTUAL LIABILITY INSURANCE AGAINST THE LIABILITY ASSUMED HEREIN ABOVE, and including CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE if the Provider sublets to another all or any portion of the Work, with the following minimum limits:

   $2,000,000.00 / Per Occurrence
   $2,000,000.00 / General Aggregate

3. AUTOMOBILE LIABILITY INSURANCE covering all owned, non-owned and hired automobiles used in connection with the Work, with the following minimum limits:

   Bodily Injury (including death) and Property Damages $1,000,000.00 Combined Single
<table>
<thead>
<tr>
<th>Limit.</th>
<th>4. PROFESSIONAL LIABILITY INSURANCE (E&amp;O) for protection from claims arising out of the performance of any design or engineering services performed or furnished in connection with the Work caused by any negligent act error or omission for which Provider and/or the Provider's Architect(s) and/or Engineer(s) may become legally liable. Such professional liability insurance shall provide for coverage as follows:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Limit of liability</td>
<td>$3,000,000.00</td>
</tr>
<tr>
<td>b. Deductible Amount</td>
<td>$50,000.00</td>
</tr>
</tbody>
</table>

Turner Construction Company, The Turner Corporation, Owner and Turner Construction Company, Barringer Construction, LLC, Honeywell International, Inc., its members, Jones Lang LaSalle, their res shall be named as an additional insured under the policies of insurance included in items 2 and 3 above.

**Indemnification** Names of entitles to be indemnified under this agreement (refer to Terms and Conditions for full indemnification requirements and definition which shall govern this agreement):

Turner Construction Company and City of Charleston

Forsberg Engineering & Surveying, Inc. (PROVIDER) ACKNOWLEDGES THAT THE ACCOMPANYING BALANCE OF TERMS AND CONDITIONS PER THE Form 380 Office REV 07-31-20 ARE COMPLEMENTARY AND INTEGRAL TO THIS AGREEMENT TO PROVIDE PROFESSIONAL SERVICES.
AGREEMENT TO PROVIDE PROFESSIONAL SERVICES

Issuing Office
Project Name
Project Number

This Agreement ("Agreement") is made as of this day of by and between (See Professional Services Data Sheet for this Item and all other Items marked PSDS) hereinafter called "Provider") with offices located at

Telephone: Fax:

Contact: and

With offices located at

The parties agree as follows:

ARTICLE 1. THE PROJECT
The services to be provided under this Agreement are for the following Project ("Project"): 

ARTICLE 2. PROVIDER'S RESPONSIBILITY
Provider accepts the relationship of trust and confidence established between it and Contractor and agrees to furnish its best skill and judgment and to perform its Services in the most expeditious and economical manner consistent with the interests of Contractor.

ARTICLE 3. SERVICES OF THE PROVIDER
Provider shall perform the following Services ("Services") in accordance with the terms of this Agreement and any applicable laws, codes, ordinances, rules or regulations:

ARTICLE 4. TIME OF PERFORMANCE

ARTICLE 5. PROVIDER'S COMPENSATION

ARTICLE 6. MODIFICATION AND TERMINATION
This Agreement may be modified or amended only by written instrument signed by the parties hereto and Provider's compensation and time of performance of the Agreement shall be adjusted if they are materially affected by such modification of amendment.

Contractor may terminate the Agreement for its convenience at any time and without any penalty, upon seven (7) days' written notice to Provider, and Contractor shall only remain liable for those Fees earned and accrued in good faith under the Agreement for Services properly performed prior to the effective date of termination. Provider waives any claim for loss of anticipated profits or other damages in the event Contractor exercises this clause.

Provider may terminate this Agreement upon seven days' written notice if Contractor is in breach of any of its provisions or if the Project is suspended for 60 days or more.

Following termination by Contractor or Provider, Provider shall be reimbursed for all expenditures made in good faith in accordance with the terms of this Agreement that are unpaid at the time of termination.
ARTICLE 7. INSURANCE
Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Contractor shall be in place and maintained until completion and final acceptance of the Work:

1. WORKERS’ COMPENSATION AND EMPLOYERS’ LIABILITY INSURANCE in accordance with laws of the State in which the Work is situated.

2. COMMERCIAL GENERAL LIABILITY INSURANCE including COMPLETED OPERATIONS, CONTRACTUAL LIABILITY INSURANCE AGAINST THE LIABILITY ASSUMED HEREINABOVE, and including CONTRACTOR’S PROTECTIVE LIABILITY INSURANCE if the Provider sublets to another all or any portion of the Work, with the following minimum limits:
   - $PSDS per Occurrence
   - $PSDS General Aggregate

3. AUTOMOBILE LIABILITY INSURANCE covering all owned, non-owned and hired automobiles used in connection with the Work, with the following minimum limits:
   - Bodily Injury (including death) and Property Damage $PSDS Combined Single Limit

4. PRACTICE (OFFICE) PROFESSIONAL LIABILITY INSURANCE (E&O) for protection from claims arising out of the performance of any design or engineering services performed or furnished in connection with the Work caused by any negligent act, error or omission for which Provider and/or the Provider’s Architect(s) and/or Engineer(s) may become legally liable. Such professional liability insurance shall provide for coverage as follows:
   a. Limit of liability $PSDS
   b. Deductible Amount $PSDS
   c. Provider agrees that he will maintain this Professional Liability coverage for 5 years after substantial completion of the Project will notify $PSDS of any changes in the policy in subsequent years and will ensure that the policy will not provide less limits or coverage than the current policy."
   d. Sixty (60) days prior written notice to Contractor of cancellation of such insurance or any material change with respect thereof.

Before commencing the Work the Provider shall furnish a certificate satisfactory to Contractor from each insurance company showing that the above insurance is in force, stating policy numbers, dates of expiration and limits of liability thereunder and further providing that should any of the described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Applicable endorsements shall be included with the Certificate of Insurance provided.

Such professional liability insurance shall be in a form and from a company acceptable to Contractor and policy shall be available for review by Contractor as requested. $PSDS shall be named as an additional insured under the policies of insurance included in items 2 and 3 above.
ARTICLE 8. INDEMNIFICATION
It is understood and agreed that Provider shall Hold Harmless PSDS from all claims, losses, expenses and damages, including but not limited to attorney's fees, arising out of or resulting from the performance of its Services.

ARTICLE 9. ARBITRATION
Any claims or controversy arising out of or related to this Agreement or the breach thereof shall be settled by arbitration in accordance with the rules then obtaining of the American Arbitration Association and judgment upon the award may be entered in any court having jurisdiction.

ARTICLE 10. ETHICS
Contractor has a longstanding reputation for honesty and integrity in its business dealings and for its corporate policies promoting lawful and ethical behavior. Contractor is committed to upholding that reputation and has adopted a Standard of Business Conduct Policy Statement which governs the actions of all of its employees. Pursuant to that Policy Statement, Contractor employees are prohibited from accepting bribes or kickbacks in any form and, further, are prohibited from accepting goods or services provided by a Provider for the personal benefit of the employee, his or her relatives, or any entity in which the employee or his or her relatives has a personal interest. This prohibition includes, but is not limited to; work performed on an employee’s residence and applies regardless of whether the beneficiary of the goods or services pays for them. Therefore, if the Provider offers or provides a bribe or kickback to any employee, or offers or provides goods or services to any employee, his or her relatives, or any entity in which the employee or his or her relatives has a financial interest, the Provider will be considered to be in material breach of this Agreement. Provider undertakes the commitment to advise Contractor of any action by any entity or person associated with the project that Provider believes violates any applicable law, rule or regulation. Provider’s violation of any of the foregoing shall be considered as Provider’s failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article 6 of this Agreement.

The provisions of this Article must be incorporated into any lower–tier agreement Provider enters into in connection with the performance of this Agreement.

ARTICLE 11. HARASSMENT
It is the goal of Contractor to promote a work environment at the Project that is free from harassment of any kind. Contractor has ZERO TOLERANCE for harassment, including harassment on the basis of race, sex, gender, gender identity, gender expression, transgender status, sexual orientation, pregnancy, childbirth and other pregnancy-related conditions, color, national origin, ancestry, age, religious creed, citizenship, marital status (including registered domestic partners), parental status, physical disability, mental disability, medical condition, genetic information, military or veteran status (including protected veteran status), or any other characteristic or status protected by law. Subcontractor agrees to be bound by the Policy Statement on Harassment (http://www.turnerconstruction.com/sub-contractors), and any violation or suspected violation of such policy by Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers shall be considered as Subcontractor’s failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article 6 of this Agreement. Subcontractor shall actively promote a harassment-free work environment among its officers, agents, servants, employees, subcontractors, and suppliers.

ARTICLE 12. U.S. GOVERNMENT PRIME CONTRACT
In the event that the General Contract under which this Agreement is being issued is a General Contract between Contractor and the United States Government or an agency thereof, additional Federal Acquisition Regulation (“FAR”) and agency FAR supplemental provisions are applicable to this Agreement. Such FAR and agency FAR supplemental provisions are contained on the attached document entitled “Federal Supplement” and such provisions are hereby incorporated by reference herein as if set forth at length herein. Provider hereby ratifies and re-affirms its Subcontractor Certifications and Disclosures that Provider signed and submitted with its proposal submitted earlier to Contractor and such Certifications and Disclosures are hereby incorporated herein by reference as if set forth at length herein.
ARTICLE 13. MISCELLANEOUS PROVISIONS
All notices or other communication under this Agreement shall be deemed to have been given when received by the party to whom sent at the addresses set forth above.

Any such notice or communication which shall be mailed shall be sent first class postage prepaid return receipt requested.

The law in effect at the location of the Project shall govern this Agreement.

The status of the Provider shall be that of an independent Contractor.

In witness whereof the parties hereto have executed this Agreement as of the date first written above.

CONTRACTOR

By: ________________
Title: ________________

PROVIDER:

By: ________________
Title: ________________

Provider’s Federal Employers Identification Number (FEIN)

Provider’s State Unemployment Ins. No.

(Insert State and Register No. for State in which the Work is to be performed)

Provider’s License No.

(Insert License No., if any, for State or locality in which the Work is to be performed)

Provider’s State Sales Tax Registration No.

(Insert State and Register No. for State in which the Work is to be performed)
Scope of Work

This Subcontract shall be identified as “Design Services for the Bus Dropoff Design”.

Site Investigation
1. Bidders shall thoroughly review the soils investigation reports available to determine the conditions that may be expected whether visible or hidden. The bid shall be based on unclassified soils and unlimited responsibility for dealing with buried obstructions unless specified otherwise or the Bidder specifically lists the limits of the bid.

2. This Subcontractor shall take precautions to verify that there are no buried utilities or other obstructions in the way of drilling. This Subcontractor shall be responsible for any damages despite drilling where staked if there is any way he could have known that there was a potential conflict.

Protection of the Site
3. This Subcontractor will be responsible for any and all costs necessary for the complete repair of any damages to the existing structures or elements scheduled to remain that may result from the Work.

4. Notify Turner Brownstone immediately of any conflicts with the installation of the Work.

Specific Work Included
1. Preparation of partial topographic survey and utility locate.
   a. Survey underground utilities and additional grades to supplement current survey

2. Preparation of civil engineering services as follows:
   a. Site demolition plan
   b. Geometric site layout plans for rework of entrance to building
   c. Grading, drainage, and coordination with Dominion, CWS, AT&T existing utility plans
   d. Construction details for site work items
   e. Civil Specifications

3. Submittal to the following agencies
   a. SCDOT Encroachment permit
   b. City Engineering Permit for sidewalk work
   c. City Traffic & Transportation - sidewalk

Work Excluded
1. Board of Zoning Appeals submittals, SWPPP Inspections, agency submittals, wetlands, construction administration, TRC submittal, stormwater submittals, asbuilt surveys, traffic study, site lighting, geotechnical reports, construction layout, landscape architect.
Unit Pricing
The following unit prices shall apply for additions and deductions in scope. Unit Prices shall include all tax, engineering, bond fees, etc. for a complete cost of the work. Include overhead and profit in these prices. Indicate the range for which the unit is to be applied.

<table>
<thead>
<tr>
<th>Description</th>
<th>Add</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternates
It is understood and agreed that the following additions or deductions may be made to the Contract Price. No commitment for material or other costs related to these alternate prices can be made without Turner Brownstone’s written authorization. Alternate prices include overhead, profit, insurance, tax, engineering, small tools, safety, bond fees, and any other miscellaneous costs for a complete cost of work.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

Pricing Summary
On the Bid Form under Base Bid, this Subcontractor shall split the total sum bid for this Bid Package into the following breakouts for accounting purposes only: [Distribute all general costs, overhead, and profit, proportionally then provide quantity and material cost information – install value is total less material value].

<table>
<thead>
<tr>
<th>Description</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surveying</td>
<td>$2,100.00</td>
</tr>
<tr>
<td>Civil Design</td>
<td>$4,700.00</td>
</tr>
<tr>
<td>Submittals</td>
<td>$1,550.00</td>
</tr>
</tbody>
</table>

Subtotal        $8,350.00

Contingency     $4,000.00

Total Subcontract Amount  $12,350.00
## BID SUMMARY

<table>
<thead>
<tr>
<th>SERVICES</th>
<th>SALES TAX</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sidewalk Installation - Concord St Bus Stop</td>
<td>$0.00</td>
<td>$8,032.94</td>
</tr>
<tr>
<td>Granite Curb Installation</td>
<td>$0.00</td>
<td>$14,974.00</td>
</tr>
<tr>
<td>Demolition - Sidewalk &amp; Curb</td>
<td>$0.00</td>
<td>$6,397.00</td>
</tr>
</tbody>
</table>

|                      | $0.00     | $29,403.94  |

Sale
Sales Tax
Total

$29,403.94

$0.00

$29,403.94

Client Signature: ___________________________ Date
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 136  
Contract: Construction

Ceiling Height Additional Basement

Description of work to be performed: Track Lights Additional Lenses  
This change is associated with the materials for the additional lenses of the track lights  
This change was requested during the submittal review. (I am changing)

A - Customer Requested Change  
B - Code/Regulatory Agency Required Change  
C - Errors and Omissions  
D - Replacing Unsuitable Soils  
E - Soils Related Change Other  
F - Unforeseen Conditions  
G - Time Related Change  
H - Liquidated Damages  
I - Value Engineering Change  
J - Exercising Pre-Priced Option (Allowance)  
K - Accounting Error  
(Indicate Reason for Change Proposal)

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $11,513.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

(Circle One) (YES) (NO)  
Mike Risteski, Cumming Corp.

Approved:  
(Robert Faust, Cumming Corp.

(Circle One) (YES) (NO)  
Edmund V. Most, City of Charleston

(Circle One) (YES) (NO)  
Bernard Costantino, Moody Notan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Per the Returned Submittal. 30% additional Tracked Head Lenses need to be ordered for turn over to IAAM.

Reason:  
- [x] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

Pricing:  
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates
- [ ] Rom Estimate of GR’s & Insurances
- [ ] Rom Estimate for Entire PCO
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Time Impact:  
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Work Authorization is Requested By:
- [ ] Work Has Commenced &/or is Ongoing

Submitted By:  
Walter Lewis  Project Engineer  07/03/21  $11,513

Contractor:  TURNER BROWNSTONE

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By:  Program Manager:  CUMMING

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Approved By:  Owner:  City of Charleston

Amount Approved:  $11,513
## International African American Muesum
General Summary of the Estimate

### COR No.: 136

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
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<tbody>
<tr>
<td>A1</td>
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<tr>
<td>A2</td>
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<td>A3</td>
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<td>A4</td>
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<td>A6</td>
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<td>A7</td>
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<td>A11</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>$359.96</td>
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**ESTIMATE TOTAL** | **$11,513**
### GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’s)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
</tr>
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</table>

### TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td><strong>Additional Scope of Work</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Rate</th>
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<tbody>
<tr>
<td>1</td>
<td>$10,590.00</td>
<td>1 LS $10,590.00</td>
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</table>

**DIRECT WORK SUBTOTAL** $10,590
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418
Telephone: 843.414.0700
Fax: 843.414.0704

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405
Contact: Walt Lewis
E-mail: wlewis@tcco.com

Work Description

SCOPE OF WORK:
Per Lighting retuned submittal notes this price includes 30% additional alternate lenses.
TH track heads.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 0 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_11>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
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<td>Material Tax</td>
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CLIENT ACCEPTANCE

<table>
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<tr>
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<td>11</td>
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<tr>
<td>Final Amount</td>
<td>$10,589.57</td>
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</tbody>
</table>

Name: ____________________________

Date: ____________________________

Signature: ________________________

Change Order #: ____________________

ORIGINAL
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 137  
Contract: Construction

Description of work to be performed: Heat Trace Added per RFI 434
This change is associated with the materials and labor for installing additional heat trace cables for plumbing work. This change was included in the response of RFI 434.

Justification: C - Errors and Omissions

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimates (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  
X

Proposal Cost (not to exceed): $5,827.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended: 

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

(Approved:

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Notan)

(Mike Risteski, Cumming Corp.)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Price to supply and install Power to the Heat Trace per RFI 434.</th>
</tr>
</thead>
</table>

**Reason:**
- [ ] Owner Directive
- [x] Code / Regulatory
- [ ] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [x] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [x] Evaluated - NO TIME IMPACT
- [ ] Work Authorization is Requested By:
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing

**Submitted By:**
- Walter Lewis
- Project Engineer
- 07/03/21

**Contractor:**
- TURNER BROWNSTONE
- 07/03/21
- $5,827

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [x] Do Not Proceed or Price

**Reviewed By:**
- Program Manager: CUMMING
- Dated

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [x] Do Not Proceed or Price

**Approved By:**
- Owner: City of Charleston
- 07/03/21
- $5,827
## International African American Muesum

### General Summary of the Estimate

**COR No.:** 137

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tbody>
<tr>
<td>A1</td>
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<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<td>A3</td>
<td>TRADE DIRECTS</td>
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**SUBTOTAL TRADE DIRECTS** $5,360

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<td></td>
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<td>$5,360.00</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CCIP</td>
<td>@ 2.50%</td>
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<td>Subguard</td>
<td>@ 0.012</td>
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<tr>
<td>Builders Risk</td>
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<tr>
<td>Performance and Payment Bond</td>
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<tr>
<td>Procore</td>
<td>@ 0.0450%</td>
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<tr>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
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**ESTIMATE TOTAL** $5,827
<table>
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<tr>
<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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<tbody>
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<td></td>
<td></td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
<td>$0</td>
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<tr>
<td>TRADE DIRECTS</td>
<td></td>
<td></td>
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<td></td>
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</table>

**DESCRIPTION**

<table>
<thead>
<tr>
<th>Additional Scope of Work</th>
<th>Rate</th>
<th>Unit</th>
<th>Units</th>
<th>Subtotal</th>
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</thead>
<tbody>
<tr>
<td>Cost to supply power to the heat trace</td>
<td>$5,360.00</td>
<td>1</td>
<td>LS</td>
<td>$5,360.00</td>
</tr>
</tbody>
</table>

**TOTAL**

$5,360
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

SCOPE OF WORK:
RFI #434 Plumbing Heat tracing (power only).

Includes:
Two (2) 120 volt, 20 amp circuit.
Emt conduit and #10 awg conductor homeruns from Panel AP-L2A, circuits #86, 88 as specified in RFI 434.
(2) 120 volt, 20 amp circuit breakers for Panel AP-L2A.

Excludes:
Furnishing or installing heat trace system equipment; heat trace, control or monitor devices, junction or power boxes.
Commissioning of start up of system.
Control wiring or terminations.
Warranty of heat trace system.

Clarifications:
This price is to bring two (2) circuits with single point connections to heat trace junction boxes provided by others.
ALL heat trace equipment and products installed by others.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 5 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_22 RFI 434>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; CONDUIT - EMT</td>
<td>269</td>
<td>454.66</td>
<td>13.45</td>
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<tr>
<td>3/4&quot; CONN COMP STL - EMT</td>
<td>4</td>
<td>16.23</td>
<td>0.56</td>
</tr>
<tr>
<td>3/4&quot; COUPLING COMP STL - EMT</td>
<td>27</td>
<td>126.45</td>
<td>8.10</td>
</tr>
<tr>
<td>1/2 OR 3/4&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>30</td>
<td>60.54</td>
<td>1.50</td>
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<tr>
<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>2</td>
<td>12.83</td>
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<td>1/2&quot; FLEX - ALUMINUM</td>
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<td>1/2&quot; CONN FLEX DC SQUEEZE STRAIGHT</td>
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<td>#10 THHN BLACK</td>
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<td>#10 THHN SOLID BLACK</td>
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ORIGINAL
## Proposed Change Order

**PCO #**

22

**Page Number:**

2

### Description

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<tr>
<th>Description</th>
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<th>Total Mat.</th>
<th>Total Hrs.</th>
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<td>4&quot; SQ BLANK COVER</td>
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<tr>
<td>#8x 1/2 WAFER HEAD SELF-TAP STUD SCREW - 12G</td>
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<td>20A 1P BREAKER BOLT-ON</td>
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<td>38.00</td>
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<tr>
<td>#10/2C TERM</td>
<td>6</td>
<td>0.00</td>
<td>0.54</td>
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</table>

**Totals**

|               | 1,605 | 1,605.21  | 37.77      |

### Summary

- **General Materials:** 1,605.21
- **Material Tax:** @ 9.000%
- **Material Total:** 1,749.68
  - JOURNEYMAN: (37.77 Hrs @ $45.00)
  - FOREMAN: (5.67 Hrs @ $50.00)
  - SAFETY: (1.32 Hrs @ $52.00)
  - PM&S: (44.76 @ 0.00 @ $6.00 + 0.000 % + 0.000 % + 0.000 %)
  - VDC: (44.76 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %)
  - VEHICLES: (44.76 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %)
  - HEALTH AND HYGEINE: (44.76 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %)
  - CONSUMABLES: (44.76 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %)
  - SCISSOR LIFT: (1.00 @ 0.75 @ $440.00 + 0.000 % + 0.000 % + 0.000 %)

**Subtotal:** 4,614.88

- **Markup:** @ 15.000%
- **Subtotal:** 5,307.11
  - Adjustment #1 - BOND: (@ 1.000%)

**Final Amount:** $5,360.18

### Contractor Certification

Name:

Date:

Signature:

[I hereby certify that this quotation is complete and accurate based on the information provided.]

### Client Acceptance

**PCO #**

22

**Final Amount:** $5,360.18

Name:

Date:

Signature:

Change Order #:

[I hereby accept this quotation and authorize the contractor to complete the above described work.]

**ORIGINAL**
Moody Nolan  
300 SPRUCE ST, STE 300,  
COLUMBUS, OH 43215  
Attention: Bernie Costantino

**Subject:** MEP | Heat Trace Circuiting for L1 Overhead Sanitary

**Information Requested:**

Per the attached plumbing riser diagram, the sanitary on L1 overhead required heat trace.

Please provide information regarding the circuiting required for this heat trace. Attached is the approved Div 22 heat trace information for reference.

**Responses**

**Joel Ramos - Plumbing**

See electrical response.

**Sarah Aarons - Electrical**

Refer to attached ASI-029 for heat trace power information.
1. PROVIDE DUPLEX RECEPTACLES FOR SECURITY BOLLARD SYSTEM.

2. POWER SUPPLY FOR HAND DRYER.

3. ALL RECEPTACLES AND APPLIANCE BRANCH CIRCUITS IN THIS SECTION SHALL BE CONNECTED TO AP-L2-IGB, U.O.N.

4. CAFE EQUIPMENT NOT IN SCOPE. COORDINATE EXACT RECEPTACLE TYPES AND QUANTITIES WITH ARCHITECT, OWNER AND FOOD SERVICE CONSULTANT.

5. REFER TO FLOOR BOX SCHEDULE ON THIS SHEET FOR FLOOR BOX CIRCUITING INFORMATION.

GENERAL NOTES

- HARDWARE.

FLOOR BOX SCHEDULE

- BOX TYPE
- BOX LOCATION
- CIRCUIT CONNECTIONS
- SYSTEMS
- SEAL & SIGNATURE
- DATE

Key Plan

- Project No. & Title
- Site Structural
- Building User
- Owner
- Lighting Designer
- Architect
- Contractor
- Acoustic Engineer
- Lighting Engineer

ELECTRICAL LEVEL 02 POWER PLAN PART B

Drawing No.

Seamon Whiteside
Collins Engineers, Inc.
Charleston, SC 29492
(843) 571-7534

Aqua Design International
(415) 957-9445

Forsberg Engineering and Surveying, Inc.
300 Spruce Street
Charleston, SC 29403
(843) 973-8311

Arup USA, Inc.
(212) 766-9688

Hood Design
(212) 334-8888

88 Pine Street
Charleston, SC 29401

International African American Museum
823 Meeting Street
Charleston, SC 29403
(843) 724-8200

International African American Museum
164 Meeting Street
Charleston, SC 29401
(843) 724-8200

International African American Museum
164 Meeting Street
Charleston, SC 29401
(843) 724-8200

International African American Museum
164 Meeting Street
Charleston, SC 29401
(843) 724-8200
**Change Order Proposal Review Form**

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 7/12/2021  
**Contractor:** Turner Construction Company  

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 138  
**Contract:** Construction  

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>AE2 Light Fixture Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Customer Requested Change</td>
<td></td>
</tr>
<tr>
<td>B - Code/Regulatory Agency Requested Change</td>
<td></td>
</tr>
<tr>
<td>C - Errors and Omissions ❌</td>
<td></td>
</tr>
<tr>
<td>D - Replacing Unsuitable Soils</td>
<td></td>
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<tr>
<td>E - Soils Related Change Other</td>
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</tr>
<tr>
<td>K - Accounting Error</td>
<td></td>
</tr>
<tr>
<td>(Indicate Reason for Change Proposal)</td>
<td></td>
</tr>
</tbody>
</table>

**Justification:** F - Unforeseen Conditions

**Attachments:**  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PWP)

| Cost Estimate (Expected to Exceed $10,000) | X |
| Change Proposal Request from CMR with Detailed Backup |

**Proposal Cost (not to exceed):** $9,199.00  
**Owner Contingency Allow. Bal.**  
**Time Extension Requested:** Time Extension Recommended:

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

---

**Decision needed by:** July 12, 2021  
**(NO) (YES)** Mike Risteski, Cumming Corp.

---

**Approved:**

**(NO) (YES)**  
**(Circle One)**

**Rick Holt, Cumming Corp.**  
**Robert Faust, Cumming Corp.**  
**Edmund V. Most, City of Charleston**  
**Bernard Costantino**  
**Bernard Costantino, Moody Nolan**
**COR #: 138**

**TURNER BROWNSTONE**
14 Wharfside Street
Charleston, SC

Re: **International African American Muesum**

Supply new AE2 Light Fixture

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Supply Alternate AE2 Light Fixture. This COR is Material only as Labor is included in GMP for installation already.</th>
</tr>
</thead>
</table>

|------------------|-----------------|-------------------|----------------------|--------------|

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or <strong>Firm Fixed Unit Pricing</strong> for Trade Contractors - See Detailed Estimates</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Work Authorization is Requested By:</th>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Submitted By:</th>
<th>Contractor: <strong>TURNER BROWNSTONE</strong></th>
<th>Requested Action:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Lewis</td>
<td>07/03/2021 Dated</td>
<td>Authorized to Proceed While Pricing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amount Requested</th>
<th>$ 10,001</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reviewed By:</th>
<th>Program Manager: <strong>CUMMING</strong></th>
<th>Authorized Action:</th>
</tr>
</thead>
<tbody>
<tr>
<td>/ / Dated</td>
<td>Authorized to Proceed While Pricing</td>
<td>Price Only</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Authorized Action:</th>
<th>Work Authorization is Requested By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>/ / Dated</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approved By:</th>
<th>Owner: <strong>City of Charleston</strong></th>
<th>Amount Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edmund Most</td>
<td>07/03/2021 Dated</td>
<td>$ 10,001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amount Approved</th>
<th>$ 10,001</th>
</tr>
</thead>
</table>

Date Submitted: **July 3, 2021**
<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR $0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT $0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$9,199.00</td>
</tr>
</tbody>
</table>

**SUBTOTAL TRADE DIRECTS** $9,199

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>%</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4</td>
<td>CCIP</td>
<td>2.50%</td>
<td>$229.98</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>0.012</td>
<td>$110.39</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>0.84%</td>
<td>$77.27</td>
</tr>
<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>0.00732</td>
<td>$67.34</td>
</tr>
<tr>
<td>A11</td>
<td>Procore</td>
<td>0.04500%</td>
<td>$4.14</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>3.25%</td>
<td>$312.68</td>
</tr>
</tbody>
</table>

**ESTIMATE TOTAL** $10,001
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

**DESCRIPTION**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TRADE DIRECTS

**DESCRIPTION**

<table>
<thead>
<tr>
<th>Additional Scope of Work</th>
<th>RATE</th>
<th>Unit</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>To Supply AE2 Light Fixtures</td>
<td>$9,199.00</td>
<td>1</td>
<td>$9,199.00</td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** $9,199
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
Rev1:

Alternate light fixture for AE2 on Level 1.

Remove (46) AE2 original light fixtures.
Install (46) new alternate AE2 light fixtures.

The original fixtures specified and approved by the design team were not code compliant or applicable for the installation. There was no available product data or information contained in the approved submittal that could have forecasted this issue prior to releasing light fixtures.
Watson received the incorrect fixtures and made an effort to make a code compliant installation, and with an acceptable installation but could not maintain a code compliant installation, or an acceptable final installation.

Attached is the submittal for the alternate fixture. Pending approval of light fixture and change order, and written directive to proceed.
No lead time available at time of this quote.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 12 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_46> <AE2 Alternate>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Summary</th>
<th>Material</th>
<th>Overhead</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIGHTING FIXTURES</td>
<td>7,958.00</td>
<td>433.71</td>
</tr>
<tr>
<td>Material Tax</td>
<td>(@ 9.000 %)</td>
<td>(@ 5.000 %)</td>
</tr>
<tr>
<td>Material Total</td>
<td>8,674.22</td>
<td>433.71</td>
</tr>
<tr>
<td>Subtotal</td>
<td>8,674.22</td>
<td>433.71</td>
</tr>
<tr>
<td>Adjustment #1-BOND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(@ 1.000 %)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subtotal 9,107.93

We reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 12 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_46> <AE2 Alternate>.
# PROPOSED CHANGE ORDER

## Summary (Cont’d)

| Final Amount | $9,199.01 |

## CONTRACTOR CERTIFICATION

| Name: |  |
| Date: |  |
| Signature: | I hereby certify that this quotation is complete and accurate based on the information provided. |

## CLIENT ACCEPTANCE

| PCO # | 46 |
| Final Amount: | $9,199.01 |

| Name: |  |
| Date: |  |
| Signature: |  |
| Change Order #: | I hereby accept this quotation and authorize the contractor to complete the above described work. |
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 139
Contract: Construction

Description of work to be performed: DAS Antennas Added to Ceiling
This change is associated with the labor and materials of adding additional 2 antennas in the ceiling.
The reason for this change was to keep devices away from the acoustical ceiling. An antenna had to be moved from its original proposed location. The movement of the antenna created coverage issues which were resolved by adding 2 new antennas.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $8,757.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:
Consequence of Rejection:
Comments by Supervisor:

Decision needed by: July 13, 2021

(Circle One) NO YES
Mike Risteski, Cumming Corp.

Approved:

(Circle One) NO YES
Rick Holt, Cumming Corp.

(Circle One) NO YES
Robert Faust, Cumming Corp.

(Circle One) NO YES
Edmund V. Most
City of Charleston

(Circle One) NO YES
Bernard Costantino
City of Charleston

(Circle One) NO YES
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description</th>
<th>Reason</th>
<th>Pricing</th>
<th>Time Impact</th>
<th>Amount Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>To Add additional equipment than required, Design team added these as to avoid ceilings per the reflected ceiling plan approval and shop drawing review.</td>
<td>Owner Directive</td>
<td>Lump Sum or Firm Fixed Unit Pricing</td>
<td>Evaluating Potential for Time Impact</td>
<td>$8,757</td>
</tr>
</tbody>
</table>

Submitted By: **TURNER BROWNSTONE**  
Date: 07/03/21  
Owner Directive  
Code / Regulatory  
Unforeseen Condition  
Design Issue  
ROM Estimate of GR's & Insurances  
ROM Estimate for Entire PCO  
Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates  
Evaluating Potential for Time Impact  
Evaluated - NO TIME IMPACT  
Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)  
Work has been Completed  
Work Has Commenced &/or is Ongoing  
Work Authorization is Requested By:

Requested Action:
- Authorized to Proceed While Pricing  
- Price Only  
- Do Not Proceed or Price

Authorized Action:
- Authorized to Proceed While Pricing  
- Price Only  
- Do Not Proceed or Price

Reviewed By: **CUMMING**  
Dated / / 

Approved By: **City of Charleston**  
Dated / /  
Amount Approved $8,757
# General Summary of the Estimate

## Item #

<table>
<thead>
<tr>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>SUBTOTAL TRADE DIRECTS</th>
<th>$8,055</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th>SUBTOTAL</th>
<th>$8,055</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCIP</td>
<td>@ 2.50%</td>
<td>= $201.38</td>
</tr>
<tr>
<td>Subguard</td>
<td>@ 0.012</td>
<td>= $96.66</td>
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<tr>
<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>= $67.66</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
<td>= $58.96</td>
</tr>
<tr>
<td>Procore</td>
<td>@ 0.04500%</td>
<td>= $3.62</td>
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<tr>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
<td>= $273.79</td>
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</table>

**ESTIMATE TOTAL** $8,757
## GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
</tr>
</tbody>
</table>

## TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Additional Scope of Work</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To add two additional Points per Approved Reflected ceiling plan</td>
<td>$8,055.00</td>
<td>LS</td>
<td>1</td>
<td>$8,055.00</td>
</tr>
</tbody>
</table>

DIRECT WORK SUBTOTAL $8,055
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

SCOPE OF WORK:
DAS system additions.

Includes:
Two (2) additional antenna points per approved RCP plan.
Additional points are on Level 2.
Subcontractor quote attached.
Approved RCp for basis of proposal attached.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 6 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_50 RCP DAS>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; CONDUIT - EMT</td>
<td>158</td>
<td>378.24</td>
<td>8.69</td>
</tr>
<tr>
<td>1&quot; CONN COMP STL - EMT</td>
<td>2</td>
<td>12.28</td>
<td>0.32</td>
</tr>
<tr>
<td>1&quot; COUPLING COMP STL - EMT</td>
<td>16</td>
<td>120.29</td>
<td>5.60</td>
</tr>
<tr>
<td>1&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>17</td>
<td>41.01</td>
<td>1.02</td>
</tr>
<tr>
<td>#8x  1/2 WAFER HEAD SELF-TAP STUD SCREW - 12G</td>
<td>2</td>
<td>0.08</td>
<td>0.10</td>
</tr>
<tr>
<td>Totals</td>
<td>195</td>
<td>551.90</td>
<td>15.73</td>
</tr>
</tbody>
</table>

Summary

| General Materials | 551.90 |
| Material Tax (@ 9.000 %) | 49.67 |

| Material Total | 601.57 |
| JOURNEYMAN (15.73 Hrs @ $45.00) | 707.85 |
| FOREMAN (2.36 Hrs @ $50.00) | 118.00 |
| SAFETY @ 3.5% (0.55 Hrs @ $52.00) | 28.60 |
| PM&S (18.64 @ 0.00 @ $6.50 + 0.000 % + 0.000 % + 0.000 %) | 121.16 |
| VDC (18.64 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %) | 18.64 |
| VEHICLES (18.64 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %) | 46.60 |
| CONSUMABLES (18.64 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %) | 5.59 |
| HEALTH AND HUGEINE (18.64 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %) | 18.64 |

ORIGINAL
PROPOSED CHANGE ORDER

PCO # 50
Page Number: 2

Summary (Cont’d)

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtotal</td>
<td>1,666.65</td>
</tr>
<tr>
<td>Overhead (10.000 %)</td>
<td>166.67</td>
</tr>
<tr>
<td>Markup (5.000 %)</td>
<td>91.67</td>
</tr>
<tr>
<td>Total</td>
<td>1,924.99</td>
</tr>
<tr>
<td>DAS Sub ($5,500.00 + 0.000 % + 0.000 % + 10.000 %)</td>
<td>6,050.00</td>
</tr>
<tr>
<td>Total</td>
<td>7,974.99</td>
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<tr>
<td>Adjustment #1-BOND (1.000 %)</td>
<td>79.75</td>
</tr>
<tr>
<td>Final Amount</td>
<td>$8,054.74</td>
</tr>
</tbody>
</table>

CONTRACTOR CERTIFICATION

Name: ____________________________
Date: ____________________________
Signature: ________________________
I hereby certify that this quotation is complete and accurate based on the information provided.

CLIENT ACCEPTANCE

PCO #: 50
Final Amount: $8,054.74

Name: ____________________________
Date: ____________________________
Signature: ________________________
Change Order #: ____________________
I hereby accept this quotation and authorize the contractor to complete the above described work.

ORIGINAL
Jay Wohlford  
Building Systems Sales Representative  
Email: ron.wohlford@jci.com  

April 15, 2021  

Proposal # 210-417650  

To: Watson Electric  
Attn: Dale Winovich  

Re: International African American Museum DAS System  

DAS System:  
➢ Add 2 Antenna IAAM DAS  

• TOTAL  
Total, including applicable tax............................................................$ 5,500.00  

Scope of Work DAS System:  

Scope: We will provide and install 2 Added Antenna and associated design revisions to the new ERRC first responder radio system BDA DAS System in the listed location to be utilized by the local Fire Department per the documents supplied by Johnson Controls Fire Protection. All work to be done per NFPA 72 and 1221 tested per the requirement of the local fire marshal AHJ.  

Our price includes: Providing installation labor and associated cable for the 2 added antennas and design revisions. Whenever possible all services are to be performed during normal working hours.  

Our price Exclusions: 120VAC wiring, 2HR fire rating for BDA room or 2HR fire rated cable, tax, any and all raceways conduits J hooks, back boxes access doors of any kind, painting, patching, fire stopping or any type of cosmetic work, permits, lifts or scaffolding, site pre testing, ERRC system signal shall not accommodate any commercial wireless service provider coverage within the building DAS or BDA equipment or components, or UHF/VHF work or Cell Repeater of any kind, service agreement or items not described herein.  

This project includes a one (1) year warranty on materials and/or workmanship.  

Continued on page 2
THIS QUOTATION INCLUDES THE FOLLOWING:
Equipment as listed
SC Sales Tax
Freight (F.O.B. shipping point)
Shop Drawings
Technical installation support including programming
Permit
1 functional system certification test
1 AHJ test
1 Test with state officials
Close out documentation
One year standard warranty
Optional installation labor and wire

THIS QUOTATION DOES NOT INCLUDE THE FOLLOWING:
UL Certification or Monitoring
Raceway or standard electric boxes
120VAC power
Fire protection switches or gas solenoids
Phone lines
Remote station monitoring contract (available upon request)
Knox box
Cutting, drilling, patching, fire caulking or painting
Fire watch
No asbestos abatement is identified, expected or included in this contract. All policies and procedures referenced in the specification will be followed as required.
No Lead paint abatement is identified, expected or included in this contract. All policies and procedures referenced in the specification will be followed as required.
Cost for CAD files

Cordially,

Jay Wohlford
Electronic System Sales Representative

Johnson Controls
1141 Remount Rd. Suite 400
North Charleston, SC 29406
540-537-0341 cell
**Change Order Proposal Review Form**

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 7/12/2021  
**Contractor:** Turner Construction Company  
**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 140  
**Contract:** Construction  
**CMR (ARCHITECT/ENGINEER/OTHER):**

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>TRK 2 Light Fixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>This change is associated with the materials of changing the TRK2 fixtures.</td>
<td></td>
</tr>
<tr>
<td>The original fixture was only able to be installed in dry wall ceiling, therefore new fixture had to be ordered for the drop ceiling. The change order has only the cost of the materials.</td>
<td></td>
</tr>
</tbody>
</table>

**Justification:** F - Unforeseen Conditions

**Attachments:**  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)

<table>
<thead>
<tr>
<th>Cost Estimate (Expected to Exceed $10,000)</th>
<th>Change Proposal Request from CMR with Detailed Backup</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Proposal Cost (not to exceed):** $9,522.00  
**Time Extension Requested:**  
**Special Circumstances:**  
**Consequence of Rejection:**  
**Comments by Supervisor:**

**Decision needed by:** July 12, 2021  
**Approved:**

- (NO) (YES)  
  (Circle One)

**Ric Holt, Cumming Corp.**

- (NO) (YES)  
  (Circle One)

**Robert Faust, Cumming Corp.**

- (NO) (YES)  
  (Circle One)

**Edmund V. Most, City of Charleston**

- (NO) (YES)  
  (Circle One)

**Bernard Costantino, Moody Nolan**
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:** Changes to the light fixture. TRK-2 Light fixture does not work per specifications.

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [X] Design Issue

**Pricing:**
- [X] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate of GR’s & Insurances
- [ ] ROM Estimate for Entire PCO

**Time Impact:**
- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] Work Authorization is Requested

**Submitted By:**
- [Signature]
- Walter Lewis
- Project Engineer
- Dated
- 07/03/21

**Contractor:** TURNER BROWNSTONE

**Amount Requested:**
- $9,522

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Reviewed By:**
- Program Manager: CUMMING
- Dated

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**
- Owner: City of Charleston
- Dated

**Amount Approved:**
- $9,522
# International African American Muesum

## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
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</tr>
<tr>
<td>A2</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$8,759.00</td>
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**Subtotal Trade Directs** $8,759

## Subtotal

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<th>Total</th>
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**Estimate Total** $9,522
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
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<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
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### TRADE DIRECTS

<table>
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<th>RATE</th>
<th>Unit</th>
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<td>Additional Scope of Work</td>
<td>$8,759.00</td>
<td>1</td>
<td>$8,759.00</td>
<td></td>
</tr>
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</table>

1. CR Hipp - Add Roof Drains per Bulletin 27 - Time to be track T&M - Allowance
   - Manufacturer Provided a 1,200 dollar credit
   - No Labor included in cost

Direct Work Subtotal: $8,759
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:
Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Date: 6/21/2021
Project Name: IAAM Museum
Project Number: 21071
Page Number: 1

Work Description

SCOPE OF WORK:
TRK2 Drop Ceiling Alternative Fixture.
Quantity (36).
Price reflects fixture cost only.
$1200 credit to return original fixture type.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 2 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_54>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Summary</th>
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<tr>
<td>LIGHTING FIXTURES</td>
<td>6,429.48</td>
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<tr>
<td>Material Tax (9.000 %)</td>
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<td>Material Total</td>
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<tr>
<td>FREIGHT (1.00 @ 0.00 @ $500.00 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>Overhead (@ 10.000 %)</td>
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<td>Markup (@ 5.000 %)</td>
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<tr>
<td>Adjustment #1 BOND (@ 1.000 %)</td>
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<tr>
<td>Final Amount</td>
<td>$8,758.61</td>
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CONTRACTOR CERTIFICATION

Name: 
Date: 
Signature:

I hereby certify that this quotation is complete and accurate based on the information provided.

ORIGINAL
<table>
<thead>
<tr>
<th>PCO #</th>
<th>54</th>
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<td>Final Amount:</td>
<td>$8,758.61</td>
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**Name:**

**Date:**

**Signature:**

**Change Order #:**

I hereby accept this quotation and authorize the contractor to complete the above described work.
Company: WATSON ELECTRICAL
Attention: DALE WINOVICH Fax
Email: 
Project: IAAM

Date: 6/15/2021
Capital Electric standard terms apply. Prices subject to change without notice unless otherwise stated.

No federal, state, or municipal taxes included unless definitely specified.

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<td></td>
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<td>PLUS TAX and FREIGHT</td>
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<td>TRK2</td>
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<td>-$1,200.00</td>
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<td>LESS FREIGHT TO RETURN</td>
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</table>
To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 141
Contract: Construction

Description of work to be performed: Barrier Wall Foundations
This change is associated with the materials and labor of adding a footer to the barrier wall on the south side.
The original design intent was for the wall to serve as a barrier for vehicles. During construction it was determined that ladder footing and rebar were needed to add structural support to the wall.

Justification: C - Errors and Omissions

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)
- Cost Estimate (Expected to Exceed $10,000)
- Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $31,402.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved:
- Rick Holt, Cumming Corp.
- Robert Faust, Cumming Corp.
- Edmund V. Most, City of Charleston
- Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>This change is to add the Barrier Wall Foundation to the project per the revised Barrier Walls details provided by the Design Team.</th>
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<table>
<thead>
<tr>
<th></th>
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<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
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</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
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<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
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<th>Submitted By:</th>
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<th>Requested Action:</th>
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<td>Walter Lewis</td>
<td>07/03/21</td>
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<tr>
<td>Dated</td>
<td>$ 31,402</td>
<td>Amount Requested</td>
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<th>Authorized Action:</th>
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<th>Owner: City of Charleston</th>
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<td>Edmund Most</td>
<td>07/03/21</td>
<td>$ 31,402</td>
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## International African American Museum

### General Summary of the Estimate

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<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
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<td>SUBTOTAL TRADE DIRECTS</td>
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<td>A15</td>
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**ESTIMATE TOTAL** $31,402
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<td>TRADE DIRECTS</td>
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<td>DESCRIPTION</td>
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<tr>
<td>Additional Scope of Work</td>
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<td>1</td>
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<td>LS</td>
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DIRECT WORK SUBTOTAL | $28,884

TOTAL | $28,884
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<th>UNIT PRICE</th>
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<td>Per S-401 / 11 Structural Detail</td>
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<td>6' width x 1' depth, #4 Rebar per detail.</td>
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<td></td>
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<td></td>
<td>Footer extends 3' on each end of W7.</td>
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<td></td>
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<td>$28,884.00</td>
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**BID SUMMARY**

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<td>Sale</td>
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<tr>
<td>Total</td>
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<td>$28,884.00</td>
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Client Signature: ____________________________ Date
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 142
Contract: Construction

Description of work to be performed: Shaft Wall Changes

This change is associated with the materials and labor of installing a 3HR shaft wall in the mechanical/electrical rooms on all floors in the service stairs. The original design called for concrete duct bank to encase all of the service conduits to the third floor. Unfortunately, due to uncoordination during design of structural and electrical scopes, the additional concrete weight cannot be supported. Thus a shaft wall had to be installed to achieve the 3HR separation needed. The credit for Watson Electric on the deletion of the concrete was used for the removal of the formed conduits, installing additional support on all floors and reframing a smaller section of 2 service conduits.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager, Independent Cost Estimate, Pre-Negotiation Position (PNP), Cost Estimate (Expected to Exceed $10,000), Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $22,018.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Decision needed by: July 12, 2021

(Circle One) (NO) (YES)

Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
To supply and install Drywall Shaftwall instead of the Concrete per the documents. See detail Page

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [x] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [x] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has commenced &/or is Ongoing
- [ ] Work Authorization is Requested By:

**Submitted By:**
**Contractor:** TURNER BROWNSTONE  
**09/03/2021**  
**$22,018**

**Reviewed By:**
**Program Manager:** CUMMING  
**/ /**

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**
**Owner:** City of Charleston  
**/ /**

**Amount Approved:**
$22,018
<table>
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<tr>
<th>Item #</th>
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<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>A3</td>
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<tr>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>0.012 @ = $337.87</td>
<td>$243.37</td>
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<tr>
<td>A14</td>
<td>Builders Risk, Performance and Payment Bond</td>
<td>0.84% @ = $236.51</td>
<td>$170.36</td>
</tr>
<tr>
<td>A11</td>
<td>Procore</td>
<td>0.00732 @ = $206.10</td>
<td>$148.45</td>
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<tr>
<td>A14</td>
<td>Overhead and Profit</td>
<td>0.45% @ = $12.67</td>
<td>$9.13</td>
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<tr>
<td>A15</td>
<td></td>
<td>3.25% @ = $957.03</td>
<td>$659.12</td>
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<td>A16</td>
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SUBTOTAL $28,156 $20,281

ESTIMATE TOTAL $30,610 $22,018

Reviewed By Chris Wilson 09/02/2021
## GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

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<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
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## TRADE DIRECTS

<table>
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<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
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<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$28,156.00</td>
<td>LS</td>
<td>$20,281.64</td>
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<tr>
<td>To Supply and Install Shaftwall</td>
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<td>$20,280.64</td>
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<td>2</td>
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<td>Deduct Concrete Not Poured Yet</td>
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<td>Remove Form Work Already in Place</td>
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</tr>
<tr>
<td>Reform new Concrete Shaft</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Add additional Conduit support</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Pour Concrete at new shaft location</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Material Lead time is 8 Weeks. This will cause a delay as we can not receive final inspection with out this in place. The delay will be tracked in project schedule.

| DIRECT WORK SUBTOTAL | $20,281 |
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Work Description: To supply and install Drywall Shaftwall instead of the Concrete per the documents. See detail Page


Pricing: [ ] ROM Estimate of GR's & Insurances [ ] ROM Estimate for Entire PCO [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [ ] Evaluating Potential for Time Impact [ ] Evaluating - NO TIME IMPACT [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Submitted By: [ ] Work has been Completed [ ] Work Has Commenced &/or is Ongoing [ ] Work Authorization is Requested By:

Amount Requested: $30,610

Authorized Action:

[ ] Authorized to Proceed While Pricing [ ] Price Only [ ] Do Not Proceed or Price

Requested Action:

[ ] Authorized to Proceed While Pricing [ ] Price Only [ ] Do Not Proceed or Price

Contractor: TURNER BROWNSTONE

07/19/2021

$22,018

Walter Lewis

Project Engineer

Dated

Reviewed By: Program Manager: CUMMING

/ / Dated

Authorized Action:

[ ] Authorized to Proceed While Pricing [ ] Price Only [ ] Do Not Proceed or Price

Approved By: Owner: City of Charleston

/ / Dated

$30,610

Edmund Most

Amount Approved

$22,018
# International African American Museum

## General Summary of the Estimate

### COR No.: 142 R1

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
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**SUBTOTAL TRADE DIRECTS** $28,156.00

**SUBTOTAL** $28,156  

- **CCIP** @ 2.50% = $703.90
- **Subguard** @ 0.012 = $337.87
- **Builders Risk** @ 0.84% = $236.51
- **Performance and Payment Bond** @ 0.00732 = $206.10
- **Procore** @ 0.04500% = $12.67
- **Overhead and Profit** @ 3.25% = $957.03

**ESTIMATE TOTAL** $30,610

Subtotal Direct Work $20,280.64

Reviewed By Chris Wilson 09/02/2021
### TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
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<tr>
<td>1. To Supply and Install Shaftwall</td>
<td>$28,156.00</td>
<td>1 LS</td>
<td></td>
<td>$28,156.00</td>
<td>$20,280.64</td>
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<tr>
<td>2. Electrical - The Electrical Scope is a Net Add.</td>
<td>$-</td>
<td>1 LS</td>
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<td>$-</td>
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</table>

- Deduct Concrete Not Poured Yet
- Remove Form Work Already in Place
- Reform new Concrete Shaft
- Add additional Conduit support
- Pour Concrete at new shaft location

Material Lead time is 8 Weeks. This will cause a delay as we cannot receive final inspection with out this in place. The delay will be tracked in project schedule.
# REQUEST FOR CHANGE ORDER

**Ref.#** COR-0067  
**GC #**  
**Date** Jun 09, 2021  
**Job #** 19-0998

**To:** Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
**Contact:** Walt Lewis

**Project:** International African American Museum  
14 Wharfside Street  
Charleston, SC

**Description:** 3 hour shaftwall enclosures in the storage, pump, electric rooms. 5 floors of shaftwalls.

## Labor

<table>
<thead>
<tr>
<th>Description</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
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<tr>
<td>Frame Shaftwall-DW</td>
<td>110.00</td>
<td>67.50</td>
<td>$7,425.00</td>
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<tr>
<td>Hang Drywall (Walls Only)-DW</td>
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<td>80.00</td>
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<td>50.00</td>
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<td>$3,375.00</td>
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**Base Rate 45.00 - All included**  
**Overtime 22.50 (Time and Half)**  
**Total Rate 67.50**

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<tr>
<th>Description</th>
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<tr>
<td>Supervision</td>
<td>3.00</td>
<td>67.50</td>
<td>$202.50</td>
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**Total Labor** $28,358.00  
($15,750.00 - 22,625.00)

## Material

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<th>UOM</th>
<th>Unit Price</th>
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<td>1.20 SQFT</td>
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<tr>
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<td>EA</td>
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**Total Material** $4,530.64  
($20,280.64 - 25,815.08)

## Subtotal for Detail $28,358.14

## Miscellaneous

<table>
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<tr>
<th>Description</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Rounding</td>
<td>-$0.14</td>
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**Total Miscellaneous Charges** -$0.14

## Total

<table>
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<th>Description</th>
<th>Total</th>
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</table>
| Labor Total                  | $23,827.50  
($15,750.00 - 22,625.00) |
| Material Total               | $4,530.64  
($20,280.64 - 25,815.08) |
| Misc. Total                  | -$0.14  
| Sub Total                    | $28,358.00  
| Mark Up                      | $0.00 .00%|

**Mark Up:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Total</th>
</tr>
</thead>
</table>
| Sub Total                    | $28,358.00  
| Mark Up                      | $0.00 .00%|
| **Total**                    | $28,358.00|

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**Joel Ofsthun**  
Project Manager

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7317 Peppermill Pkwy, N. Charleston, South Carolina, 29418  
T:843-793-6020  
Fax:

Run on: July 2, 2021 12:25 PM
Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL’s Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U415

December 22, 2020

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System A — 1 Hr.

Horizontal Section
1. **Floor, Side and Ceiling Runners** — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs** — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).
2A. **Steel Studs** — (Not Shown) — “E” - shaped studs installed back to back in place of “C-H” - shaped studs (Item 2) “E” - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels** — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting “C-H” or “E” stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels** — For use with System I - “Hat” - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

   a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

   b. **Steel Framing Members** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. **Steel Framing Members** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

   a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

   b. **Steel Framing Members** — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

   a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

   b. **Steel Framing Members** — Used to attach furring channels (Item 2Fa) to studs. Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

2G. **Steel Framing Members** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

   a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.
b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

**REGUPOL AMERICA** — Type SonusClip

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2H. **Steel Framing Members*** — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

**KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip

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2I. **Steel Framing Members*** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

**CLARKDIETRICH BUILDING SYSTEMS** — Type ClarkDietrich Sound Clip

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3. **Gypsum Board*** — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

**CGC INC** — Type SLX

**UNITED STATES GYPSUM CO** — Type SLX

**USG BORAL DRYWALL SFZ LLC** — Type SLX

**USG MEXICO S A DE C V** — Type SLX

---

4. **Gypsum Board*** —

**System A — 1 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

**CGC INC** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.
**System B — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

**Cgc Inc** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**The Siam Gypsum Industry (Songkhla) Co** — Types C and SCX

**United States Gypsum Co** — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

**Usg Boral Drywall Sfz Llc** — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

**Usg Mexico S A De C V** — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System C — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

**Cgc Inc** — Types IP-X3 or ULTRACODE

**United States Gypsum Co** — Types IP-X3 or ULTRACODE

**Usg Boral Drywall Sfz Llc** — Type ULTRACODE

**Usg Mexico S A De C V** — Types IP-X3 or ULTRACODE

**System D — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

**Cgc Inc** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**The Siam Gypsum Industry (Songkhla) Co** — Types C and SCX

**United States Gypsum Co** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

**Usg Boral Drywall Sfz Llc** — Types C, SCX, SGX, USGX

**Usg Mexico S A De C V** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System E — 2 Hr**
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to
studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed
by steel framing.


THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX,
WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX


System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base
layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring
channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer
layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX,
USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base
layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle
layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face
layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset
6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints
centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the
flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S
steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel
screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

**System I — 4 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. **Gypsum Board** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. **Gypsum Board** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum
4D. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade “C”.

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* —

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m³

THERMAFIBER INC — Type SAFB, SAFB FF

7. Cementitious Backer Units* — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO — Type DCB

8. Laminating Adhesive* — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade “C”. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades “B, C or D”. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade “C”.

10A. **Lead Discs** — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips** — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs** — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
U415 - 3HR SHAFT WALL ASSEMBLY (in lieu of concrete encased)

LEVEL 03 to LEVEL 02 - FP-EM and FP-N conduit to Fire Pump Room - 2" surround concrete encasement

floor to floor conduit path
Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL’s Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U415
December 22, 2020

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System A — 1 Hr.

Horizontal Section
1. **Floor, Side and Ceiling Runners** — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs** — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).
2A. Steel Studs — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. Furring Channels — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting “C-H” or “E” stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. Furring Channels — For use with System I - “Hat” - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2E. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2G. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
b. Steel Framing Members* — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

2H. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. Steel Framing Members* — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2I. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. Steel Framing Members* — Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

3. Gypsum Board* — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be buttied to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. Gypsum Board* —

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.
**System B — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

**CGC INC** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — Types IP-X3 or ULTRACODE

**USG BORAL DRYWALL SFZ LLC** — Types C, SCX, SGX, USGX

**USG MEXICO S A DE C V** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System C — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per item 6.

**CGC INC** — Types IP-X3 or ULTRACODE

**UNITED STATES GYPSUM CO** — Types IP-X3 or ULTRACODE

**USG BORAL DRYWALL SFZ LLC** — Type ULTRACODE

**USG MEXICO S A DE C V** — Types IP-X3 or ULTRACODE

**System D — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per item 7 and min 1-1/2 in. thick mineral wool batts per item 6.

**CGC INC** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

**USG BORAL DRYWALL SFZ LLC** — Types C, SCX, SGX, USGX

**USG MEXICO S A DE C V** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System E — 2 Hr**
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

**CGC INC** — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

**USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX


**System F — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 24 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

**CGC INC** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

**USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX

**USG MEXICO S A DE C V** — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System G — 3 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

**CGC INC** — Types C, IP-X2, IPC-AR, ULIX, WRC

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Type C

**UNITED STATES GYPSUM CO** — Types C, IP-X2, IPC-AR, ULIX, WRC

**USG BORAL DRYWALL SFZ LLC** — Type C

**USG MEXICO S A DE C V** — Types C, IP-X2, IPC-AR, WRC

**System H — 3 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the “C” section of the studs, one layer over the flange of the “H” section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Inner or base layer attached to studs with 1-5/8 in. long Type S steel
screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum
4D. **Gypsum Board** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

**RADIATION PROTECTION PRODUCTS INC** — Type RPP - Lead Lined Drywall

5. **Joint Tape and Compound** — (Not Shown)

**Systems A, B, C, E, F, G, H, I**

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets** —

**Systems A, B, E, F, G, H, I**

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

**Systems C & D**

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

**ROCKWOOL** — Type AFB, min. density 1.8 pcf / 28.8 kg/m³

**THERMAFIBER INC** — Type SAFB, SAFB FF

7. **Cementitious Backer Units** — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

**UNITED STATES GYPSUM CO** — Type DCB

8. **Laminating Adhesive** — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips** — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips** — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs** — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
10A. **Lead Discs** — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips** — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs** — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

* Last Updated on 2020-12-22

The appearance of a company’s name or product in this database does not in itself assure that products so identified have been manufactured under UL’s Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL’s Follow-Up Service. Always look for the Mark on the product.

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1. REFER TO SHEET E-002 FOR GENERAL NOTES.

1. PROVIDE MINIMUM 2" CONCRETE ENCASEMENT FOR SERVICE ENTRANCE CONDUITS FROM ENTRANCE INTO BUILDING THROUGH ENTIRE VERTICAL SECTION WITHIN BUILDING.
1. REFER TO SHEET E-002 FOR GENERAL NOTES.

1. PROVIDE MINIMUM 2" CONCRETE ENCASEMENT FOR SERVICE ENTRANCE CONDUITS FROM ENTRANCE INTO BUILDING THROUGH ENTIRE VERTICAL SECTION WITHIN BUILDING.
 Canucks Waste to Energy Facility (CWF) located in Vancouver, BC.

The CWF is an advanced waste management facility that processes MSW (municipal solid waste) into energy. The facility is designed to meet the highest environmental and operational standards.

The project includes several key components:

1. **Reception Area:**
   - A welcoming space for visitors to learn about the facility's operations and impact.

2. **Waste Processing:**
   - Advanced waste sorting and recycling processes to recover valuable materials.

3. **Energy Generation:**
   - The facility will generate electricity through the use of waste-to-energy technologies.

4. **Environmental Benefits:**
   - Reduction of greenhouse gas emissions compared to traditional landfills.

5. **Community Involvement:**
   - Opportunities for public engagement and education about waste management and sustainability.

6. **Technology:**
   - Utilization of cutting-edge technologies for efficient waste processing and energy generation.

The CWF is expected to be completed in [expected completion date]. For more information, please contact [contact person] at [contact number].
1. PROVIDE PULL BOX TO FACILITATE TURNING OF CONDUITS INTO LEVEL 02M ELECTRICAL ROOM.

2. PROVIDE MINIMUM 2" CONCRETE ENCASEMENT FOR SERVICE ENTRANCE CONDUITS FROM ENTRANCE INTO BUILDING THROUGH ENTIRE VERTICAL SECTION WITHIN BUILDING.
1. REFER TO SHEET E-002 FOR GENERAL NOTES.

1. PROVIDE MINIMUM 2" CONCRETE ENCASEMENT FOR SERVICE ENTRANCE CONDUITS FROM ENTRANCE INTO BUILDING THROUGH ENTIRE VERTICAL SECTION WITHIN BUILDING.
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 international African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 145  
Contract: Construction

Description of work to be performed: Wall Exhibit Extension  
This change is associated with the materials and labor of extending the Exhibit wall in the East end of the building. In the original design the exhibit wall were always the same dimension. Exhibit designer had requested only one wall to be reduced in size. Unfortunately the bulletin issued mirrored the reduction to both walls.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $5,927.00  
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved: Rick Holt, Cumming Corp.

(YES) (NO) (Circle One)

(YES) (NO)  
(Mike Risteski, Cumming Corp.)

(YES) (NO)  
(Edward V. Most, City of Charleston)

(YES) (NO)  
(Bernard Costantino, Moody Nolan)

(YES) (NO)  
(Robert Faust, Cumming Corp.)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:** This COR is for the Added Length of wall per Director of IAAM and Cumming

**Reason:**
- X Owner Directive
- Code / Regulatory
- Unforeseen Condition
- Design Issue

**Pricing:**
- ROM Estimate of GR's & Insurances
- ROM Estimate for Entire PCO
- Lump Sum or [Firm Fixed Unit Pricing](#) for Trade Contractors - See Detailed Estimates

**Time Impact:**
- Evaluating Potential for Time Impact
- Evaluating - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- Work has been Completed
- Work Has Commenced &/or is Ongoing
- Work Authorization is Requested By:

**Submitted By:**
- Contractor: **TURNER BROWNSTONE**
- Walter Lewis Project Engineer
- 07/05/21
- 5,927 Amount Requested

**Reviewed By:**
- Program Manager: **CUMMING**
- / / Dated

**Approved By:**
- Owner: **City of Charleston**
- / / $ 5,927 Amount Approved

**Requested Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Authorized Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price
## International African American Muesum

### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<td>A3</td>
<td>TRADE DIRECTS</td>
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<tr>
<td>A4</td>
<td>CCIP</td>
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<td>A9</td>
<td>Subguard</td>
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<td>A14</td>
<td>Builders Risk</td>
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<td>Performance and Payment Bond</td>
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<td>A11</td>
<td>Procore</td>
<td>@ 0.04500%</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit</td>
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### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

**DESCRIPTION**

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<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
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### TRADE DIRECTS

**DESCRIPTION**

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**DIRECT WORK SUBTOTAL** $5,452
**REQUEST FOR CHANGE ORDER**

Ref.#: COR-0071  
GC #:  
Date: Jun 18, 2021  
Job #: 19-0998

**To:** Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
**Contact:** Walt Lewis

**Project:** International African American Museum  
14 Wharfside Street  
Charleston, SC

**Description:** Wall extension- frame, plywood, rock, corner bead and tape

<table>
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<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
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<tbody>
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<td>Interior Framing-DW</td>
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<td>Install Plywood-DW</td>
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<td>Clean-up-DW</td>
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**Total Labor** $2,835.00

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**Total Material** $478.20

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<th>Unit Price</th>
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<tr>
<td>24-26' SCISSOR LIFT-2WD ELEC - JLG 2630ES - Skyjack SJIII3226</td>
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<td>EA</td>
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**Total Equipment** $160.00

**Subtotal for Detail** $3,473.20

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<th>Miscellaneous</th>
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<td>parking</td>
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<td>rounding</td>
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**Total Miscellaneous Charges** $119.53

**Labor Total:** $2,835.00  
**Material Total:** $478.20  
**Equipment Total:** $160.00  
**Misc. Total:** $119.53  
**Sub Total:** $3,592.73  
**Mark Up:** $359.27  
**10.00%**  
**Total:** $3,952.00

---

**Project Manager**

---

---

---
UNLESS STATED OTHERWISE

FABRICATION QUALITY RATING

JHB

JK 2020.11.25

SUBMITTAL

DWG. NO.

TITLE

DRAWN BY

CHECKED BY

ORIGINAL ISSUE

REV

DATE

BY

PRINTED: 2020.11.25 3:33 PM

\192.168.72.30\DRAFTING\DRAFTING\2020\SG10115_IAAM\00 DRAFTING\1 FLOOR 1\0.1_GALLERY DRAWINGS\10115.0.1_GALLERY DRAWINGS.DWG

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38' - 3 3/8" VERIFIED 6/08/2021

38'-2" VERIFIED 6/08/2021

39'-0 1/4" WITH ADDITIONAL BUILD OUT

38' - 3 3/8" WITH ADDITIONAL BUILD OUT

No Cost to Owner - Installed Wrong.
Hi Walt,

I just received direction that we have to get the walls in the exact dimensions as specified by the pdf. Please proceed with the work on both walls.

MIKE RISTESKI, PMP
Project Manager

CUMMING
Building Value Through Expertise

mristeski@ccorpusa.com
P: +1 (843) 203-2904
C: +1 (843) 666-4751
3820 Faber Place Drive, Suite 600,
North Charleston, SC 29405
ccorpusa.com

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Cumming
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 146
Contract: Construction

Description of work to be performed: Additional Street Backflow Preventor Rotation
This change is associated with the materials and labor of rotating the backflow preventor 90 degrees.
The original contract documents did not contain the new backflow preventor.
The scope was contracted outside the GMP, however the rotation of the backflow preventor was not coordinated
with the landscape design in the GMP.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $14,323.25
Owner Contingency Allow. Bal.
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: August 27, 2021

Approved:

Rick Holt, Cumming Corp
Robert Faust, Cumming Corp
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

(Circle One)

(Circle One)

(Circle One)

(Circle One)
To: Turner Construction Company  
Address: 4601 Park Road, Suite 601  
Charlotte, NC 28209  
Contact: Bobby Teachey  
Phone: (704) 319-4854  
Fax:

Project Name: IAAM - COR30 Backflow Preventer Relocation  
Project Location: 14 Wharfside Street, Charleston, SC  
Bid Number:  
Bid Date: 6/18/2021

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Estimated Quantity</th>
<th>Unit</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maritime Center Dock BFP Relocation</td>
<td>1.00</td>
<td>LS</td>
<td>$14,323.25</td>
</tr>
</tbody>
</table>

Total Bid Price: $14,323.25

Notes:  
• See attached backup.

O&P to be calculated on Subcontractor price w/o their O&P  
2nd tier Subs O&P is 10%

Accepted:  
The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: ____________________________
Signature: ________________________
Date of Acceptance: ________________

Confirmed:  
Gulf Stream Construction Company Inc

Authorized Signature: ____________________________
Estimator: Ken Allen  
(843) 409-5914  kallen@gulfstreamconstruction.com
June 28, 2021

To: Gulf Stream Construction  
   Attn: Harmon Todd  
   Via email

Re: Mobilization to rotate CMC dock backflow

Chandler Construction Services, Inc. has prepared a change order proposal for work not shown in plans or part of original scope of work. Additional work includes: additional mobilization of labor & equipment to rotate 4” dia. backflow preventor 90 degrees as directed via email date/time stamped 6/28/21 @ 9:26AM. Chandler is requesting the following:

- Additional mobilization (TBD) $ 4,600.00
- Hydro-excavate or hand dig around buried facilities and install 90 degree MJ fittings plus piping $ 7,845.00

**TOTAL ADD FOR CHANGE ORDER REQUEST-11** $12,445.00

Chandler Construction Services, Inc.

[Signature]
John Cecil, Ext 206

The content of this proposal is the confidential property and intellectual property of Chandler Construction Services, Inc. and shall not be copied, modified, retransmitted or used for any purpose other than the acquisition of services with Chandler Construction Services, Inc.
To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 147A
Contract: Construction

Description of work to be performed: Palms to 4" Live Oaks on South Edge of Property
This change is associated with the materials of replacing the palm trees to live oaks on the south edge of the property. This change was requested by the owner.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PnP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): ($7,955.00) Owner Contingency Allow. Bel.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:
Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

Decision needed by: July 12, 2021
Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | This COR changes Palm Trees to 4" Oak Trees |

| Pricing: | ROM Estimate of GR's & Insurances | ROM Estimate for Entire PCO | Lump Sum or Firm Fixed Unit Pricing | Trade Contractors - See Detailed Estimates |
| Time Impact: | Evaluating Potential for Time Impact | Evaluated - NO TIME IMPACT | Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis) |

<table>
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<tr>
<th>Submitted By:</th>
<th>Contractor: TURNER BROWNSTONE</th>
<th>Requested Action:</th>
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</thead>
<tbody>
<tr>
<td>Walter Lewis</td>
<td>07/05/21 $ (7,955) Authorized to Proceed While Pricing</td>
<td>Price Only</td>
</tr>
<tr>
<td>Project Engineer</td>
<td>Dated</td>
<td>Do Not Proceed or Price</td>
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<table>
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<tr>
<th>Reviewed By:</th>
<th>Program Manager: CUMMING</th>
</tr>
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<table>
<thead>
<tr>
<th>Approved By:</th>
<th>Owner: City of Charleston</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edmund Most</td>
<td>Dated $ (7,955) Amount Approved</td>
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</table>
# International African American Museum

## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tbody>
<tr>
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<td>($7,318)</td>
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<td>A6</td>
<td>A7</td>
</tr>
<tr>
<td>A8</td>
<td></td>
<td>CCIP @ 2.50% = ($182.94)</td>
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<tr>
<td>A9</td>
<td></td>
<td>Subguard @ 0.012 = ($87.81)</td>
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<tr>
<td>A14</td>
<td></td>
<td>Builders Risk @ 0.84% = ($61.47)</td>
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<tr>
<td>A11</td>
<td></td>
<td>Performance and Payment Bond 0.00732 = ($53.56)</td>
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<tr>
<td>A14</td>
<td></td>
<td>Procore @ 0.04500% = ($3.29)</td>
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<tr>
<td>A15</td>
<td></td>
<td>Overhead and Profit @ 3.25% = ($248.72)</td>
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**ESTIMATE TOTAL** ($7,955)
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<th>TOTAL</th>
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<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
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<tr>
<td>Additional Scope of Work</td>
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<td></td>
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<tr>
<td>1</td>
<td>To Change Palm Trees to Oak Trees</td>
<td>$7,317.50</td>
<td>1</td>
<td>LS</td>
<td>$7,317.50</td>
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</table>

**DIRECT WORK SUBTOTAL** $7,318
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
This COR changes Palm Trees to 6" Oak Trees

**Reason:**
- [X] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [X] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] Work Authorization is Requested By:

**Submitted By:**
Contractor: **TURNER BROWNSTONE**
07/05/21
$ 8,461
Amount Requested

**Reviewed By:**
Program Manager: **CUMMING**

**Approved By:**
Owner: **City of Charleston**

$ 8,461
Amount Approved

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price
# General Summary of the Estimate

**COR No.: 147B**

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**SUBTOTAL** $7,783

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<td>CCIP @ 2.50%</td>
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<td>Subguard @ 0.012</td>
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<td>Builders Risk @ 0.84%</td>
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<td>A11</td>
<td>Procore @ 0.04500%</td>
<td>=</td>
<td>$3.50</td>
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<td>A15</td>
<td>Overhead and Profit @ 3.25%</td>
<td>=</td>
<td>$264.55</td>
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<td>A16</td>
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<td>A16</td>
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**ESTIMATE TOTAL** $8,461
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<tr>
<th>TRADE DIRECTS</th>
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<tr>
<td>DESCRIPTION</td>
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<tr>
<td>Additional Scope of Work</td>
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$7,783
DIRECT WORK SUBTOTAL $7,783
### OPTION 1 - Sub 4 Live Oaks 4" for 3 Majule Palms

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<th>Item</th>
<th>Spec</th>
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<th>Notes/Subs</th>
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<tr>
<td>Live Oaks</td>
<td>4&quot;</td>
<td>4</td>
<td>$1,375.00</td>
<td>$5,500.00</td>
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<tr>
<td>Credit</td>
<td></td>
<td></td>
<td>($4,272.50)</td>
<td>($12,817.50)</td>
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<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>($7,317.50)</td>
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</table>

### OPTION 2 - Sub 10 Live Oaks 6" for 3 Majule Palms and 6 Live Oaks 4"

<table>
<thead>
<tr>
<th>Item</th>
<th>Spec</th>
<th>QTY</th>
<th>Price</th>
<th>Total</th>
<th>Notes/Subs</th>
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<tbody>
<tr>
<td>Live Oaks</td>
<td>6&quot;</td>
<td>10</td>
<td>$2,750.00</td>
<td>$27,500.00</td>
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<td>Credit</td>
<td></td>
<td></td>
<td>($4,272.50)</td>
<td>($12,817.50)</td>
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<tr>
<td>Majule Palms</td>
<td>25'</td>
<td>3</td>
<td>($1,150.00)</td>
<td>($6,900.00)</td>
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<td>$7,782.50</td>
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</table>
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 international African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 148R1  
Contract: Construction

Description of work to be performed: Boiler Secondary Feed  
This change is associated with the materials and labor of installing a secondary feed to the boiler. The original plans show one feed. Equipment required two feeds.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $3,802.00  
Owner Contingency Allow. Bal.  
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved: Rick Holt, Cumming Corp.

(YES) (NO)  
(Circle One)

Robert Feust, Cumming Corp.

(YES) (NO)  
(Circle One)

Edmund V. Most, Chair of Board

(YES) (NO)  
(Circle One)

Bernard Costantino, Moody Nolan

(YES) (NO)  
(Circle One)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
To Provide an additional Feeder for the boiler

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [x] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluating - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

**Submitted By:**
Walter Lewis  Project Engineer  07/19/2021

**Contractor:** **TURNER BROWNSTONE**

**Requested Action:**
- [x] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Amount Requested:**
$3,802

**Amount Approved:**
$3,802
# International African American Muesum

## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

| A4 | SUBTOTAL TRADE DIRECTS | $3,497 |
| A5 |
| A6 |
| A7 |

| A8 | | |
| A9 | CCIP | @ | 2.50% | = | $87.43 |
| A10 | Subguard | @ | 0.012 | = | $41.96 |
| A14 | Builders Risk | @ | 0.84% | = | $29.37 |
| A14 | Performance and Payment Bond | @ | 0.00732 | = | $25.60 |

| A14 | Procore | @ | 0.0450% | = | $1.57 |
| A15 | Overhead and Profit | @ | 3.25% | = | $118.86 |

## ESTIMATE TOTAL

<p>| | | |
| | | |
| | | $3,802 |</p>
<table>
<thead>
<tr>
<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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<tr>
<td>1</td>
<td>To add an additional Feeder for the Boiler.</td>
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<td>1</td>
<td>LS</td>
<td>$3,497.00</td>
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$3,497
DIRECT WORK SUBTOTAL $3,497
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:

Scope:
Additional Boiler Feed

Includes:
One additional 3" EMT with (4) 350 kcmil feed for boiler.

Clarification:
Per original plans there was only one 2" EMT with (3) 250 kcmil plus ground conductors to the boiler.
Boiler requires a parallel feed of (2) 3" EMT with 250 kcmil plus ground per RFI #562.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 1 day.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_47>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
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<td>391.12</td>
<td>2.80</td>
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<td>3&quot; COUPLING COMP STL - EMT</td>
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<td>499.47</td>
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<td>3&quot; BUSHING - PLASTIC</td>
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<td>3&quot; SPRING STL CONDUIT CLAMP W/ BOLT</td>
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<td># 2 THHN GREEN</td>
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Summary

General Materials
Material Tax (@ 9.000 %)

2,114.84
190.34

ORIGINAL
## Summary (Cont’d)

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<td>FOREMAN</td>
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<td>(1.55 Hrs @ $50.00)</td>
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<tr>
<td>VDC</td>
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<td>(@ 5.000 %)</td>
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<td><strong>Final Amount</strong></td>
<td>$3,497.15</td>
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</tbody>
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### CONTRACTOR CERTIFICATION

Name: __________________________
Date: __________________________
Signature: _____________________

*I hereby certify that this quotation is complete and accurate based on the information provided.*

### CLIENT ACCEPTANCE

PCO # 47  
Final Amount: $3,497.15

Name: __________________________
Date: __________________________
Signature: _____________________

Change Order #: __________________________

*I hereby accept this quotation and authorize the contractor to complete the above described work.*
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/7/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 149
Contract: Construction

Description of work to be performed: BTM Pivots 3rd Floor Exterior Doors
This change is associated with the material and labor for the installation of the bottom pivot of all exterior doors at the third floor of the museum. This change was done because the specified pivot was not able to be anchored.
In order to meet the hurricane rating for the doors a new pivot had to be installed.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Cost Estimate (Expected to Exceed $10,000) X
Pre-Negotiation Position (PNP)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $3,314.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved: Rick Holt, Cumming Corp.
(YES) (NO)
(Circle One)

(YES) (NO)
(Circle One) Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Decision needed by: October 7, 2021

Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
To change out the original specified door hardware that did not work with the building conditions.

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [x] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [x] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Work Has Commenced &/or is Ongoing

**Submitted By:**
- **Contractor:** TURNER BROWNSTONE
- **Walter Lewis** Project Engineer
- **08/17/2021** Dated
- **$ 6,256** Amount Requested

**Reviewed By:**
- **Program Manager:** CUMMING
- / / Dated

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**
- **Owner:** City of Charleston
- / / Dated
- **$ 6,256** Amount Approved
# International African American Museum

## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
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A4 SUBTOTAL TRADE DIRECTS $5,754

A5
A6
A7
A8
A9
A14
A11
A14
A15
A16
A16
A17

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<tbody>
<tr>
<td>CCIP</td>
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<td>Builders Risk</td>
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<td>Procore</td>
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<td>=</td>
<td>$2.59</td>
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<tr>
<td>Overhead and Profit</td>
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<td>$195.58</td>
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**SUBTOTAL** $5,754

**ESTIMATE TOTAL** $6,256
## GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

**DESCRIPTION**

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<th>Unit</th>
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## TRADE DIRECTS

**DESCRIPTION**

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<tbody>
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<td>Cook and Boardman: Pivots Add</td>
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**Additional Aluminium Door Blocks may need to be added to make new pivots work**

**Direct Work Subtotal**

$5,754
Prime Contract Potential Change Order #013: CE #059 - RFI 647 Added Doro prep For Pivots

<table>
<thead>
<tr>
<th>TO:</th>
<th>FROM:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turner Construction Company (Charleston) 4055 Faber Place Dr. Charleston, South Carolina 29405</td>
<td>1st Choice Glass 3221-A Westwood Industrial Drive Monroe, North Carolina 28110</td>
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**PCO NUMBER/REVISION:** 013 / 0  
**CONTRACT:** 1 - International African American Museum

**REQUEST RECEIVED FROM:** Walt Lewis (Turner Construction Company (Charleston))  
**CREATED BY:** Bobby Rice (1st Choice Glass)

**STATUS:** Pending - Not Proceeding  
**CREATED DATE:** 7/13/2021

**REFERENCE:** RFI 647  
**PRIME CONTRACT CHANGE ORDER:** None

**FIELD CHANGE:** No  
**ACCOUNTING METHOD:** Amount Based

**LOCATION:**  
**SCHEDULE IMPACT:** 5 days  
**PAID IN FULL:** No

**EXECUTED:** No  
**SIGNED CHANGE ORDER RECEIVED DATE:**

**TOTAL AMOUNT:** $4,347.00

**POTENTIAL CHANGE ORDER TITLE:** CE #059 - RFI 647 Added Doro prep For Pivots

**CHANGE REASON:** RFI 647

**POTENTIAL CHANGE ORDER DESCRIPTION:** (The Contract Is Changed As Follows)  
CE #059 - RFI 647 Added Doro prep For Pivots  
To remove the currently installed doors, rework the door prep to accept a new bottom pivot, complete new pivot prep on the door frame and reinstall the door. Openings C302, 300, C301, M315, E309, E310-1, E310-2 to IVES 7215 at bottom hinges.

**ATTACHMENTS:**  
FW_RFI_#647_Level 3 Storefront-Pivot Hinges.msg

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|   | Overhead (10.00% Applies to Subcontract, Labor, Equipment, Materials, Commitment, Owner Cost, and Professional Services.) | $378.00 |
|   | Profit (5.00% Applies to all line item types.) | $189.00 |
|   | **Grand Total:** | **$4,347.00** |
To: Turner Construction  
Attn: Sarah Lippai  
Date: July 12, 2021  
Project: IAAM

Regarding: Add 7215 BTM Pivots - 3Rd FL Aluminum

| Division 8 | See Attached Material Breakdown | $1,407.00 +tax |

The above prices are subject to the following conditions/exclusions:
- We exclude all glass any glazing unless otherwise noted.
- All hardware for aluminum doors by door supplier unless otherwise noted.

The above prices are subject to the following terms:
- Our terms are Net 30 subject to credit approval.
- Freight is FOB Destination, unloading and storage is excluded.

**Quoted prices are valid for 30 days.**

Thank you for the opportunity to participate in your project. Please contact us for any additional clarification you may require. At Cook and Boardman we are proud to have earned a reputation of being a service/solution provider in addition to providing materials.

Respectfully,

Melinda Gue

Email: mgue@cookandboardman.com
<table>
<thead>
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<th>Exterior Walkway from Administration 300</th>
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<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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<td>7215 BTM</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
</tr>
<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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<tr>
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<td>7215 BTM</td>
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<td>1 Bottom Pivot</td>
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<td>1 Bottom Pivot</td>
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<tr>
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**Project: 338378 - International African American Museum**

**Contemplated Change Order # 25**

Range bottom pivots at 3rd floor aluminum exteriors per Sarah Lippai 7/2/21 email.
<table>
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<tr>
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<tbody>
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<tr>
<td>Bottom Pivot</td>
<td>1</td>
<td>7215 BTM</td>
<td></td>
<td>LH</td>
</tr>
</tbody>
</table>

**Opening Total** $201.00

**Total Change Order** $1,407.00
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/27/2020
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 150
Contract: Construction

Description of work to be performed: Catwalk Revision per Bulletin 27

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error

(Indicate Reason for Change Proposal)

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $84,070.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

(RNO) (YES)  (Circle One)  Rick Holt, Cumming Corp.
(NO) (YES)  (Circle One)  Robert Faust, Cumming Corp.
(NO) (YES)  (Circle One)  Edmund V. Most, City of Charleston
(NO) (YES)  (Circle One)  Bernard Costantino, Moody Nolan

Decision needed by: October 27, 2021

(Circle One)

(Circle One)

(Circle One)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description</th>
<th>Reason</th>
<th>Pricing</th>
<th>Time Impact</th>
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<td>Unforeseen Condition</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
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</tr>
<tr>
<td></td>
<td>Design Issue</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By:  
Contractor: **TURNER BROWNSTONE**  
Walter Lewis  Project Engineer  
10/25/2021  
$ 84,070  
Amount Requested

Reviewed By:  
Program Manager: **CUMMING**  
/ /  
Dated

Authorized Action:  
Authorized to Proceed  
While Pricing  
Price Only  
Do Not Proceed or Price

Authorized Action:  
Authorized to Proceed  
While Pricing  
Price Only  
Do Not Proceed or Price

Approved By:  
Owner: **City of Charleston**  
/ /  
$ 84,070  
Amount Approved

Edmund Most  Dated
## International African American Muesum
### General Summary of the Estimate

**COR No.: 150R3**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tr>
<td>A1</td>
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<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<td>A3</td>
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### SUBTOTAL TRADE DIRECTS

$77,330

### SUBTOTAL

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<td>A14</td>
<td>Builders Risk</td>
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<td>Overhead and Profit</td>
<td>3.25%</td>
<td>$2,628.46</td>
</tr>
</tbody>
</table>

### ESTIMATE TOTAL

$84,070
## GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

### DESCRIPTION

| GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's) | $0 |

## TRADE DIRECTS

### DESCRIPTION

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Unit</th>
<th>Units</th>
<th>Subtotal</th>
<th>Total</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Additional Scope of Work</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Catwalk Work Related to Bulletin 27</td>
<td>$98,410.00</td>
<td>1</td>
<td>LS</td>
<td>$98,410.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>As Discussed with City / Cumming / MN at time of Bulletin Release.</td>
<td>$-</td>
<td></td>
<td></td>
<td>$-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Team agreed to rework Catwalk with an approx cost of 100K</td>
<td>$-</td>
<td></td>
<td></td>
<td>$-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Delete Remove Catwalk</td>
<td>$13,580.00</td>
<td>1</td>
<td>LS</td>
<td>$13,580.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Delete Install Catwalk (Partial)</td>
<td>$7,500.00</td>
<td>1</td>
<td>LS</td>
<td>$7,500.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** $77,330
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | Revised Catwalk Pricing with additional Break out. The cost of reworking the Catwalk system per Bulletin 27. |

| Pricing: | ROM Estimate of GR's & Insurances | ROM Estimate for Entire PCO | | Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates | | |
| Time Impact: | Evaluating Potential for Time Impact | Evaluated - NO TIME IMPACT | | Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis) | | |
| | Work has been Completed | Work Has Commenced &/or is Ongoing | | | Work Authorization is Requested By: | |

Submitted By: [Signature]  
Walter Lewis  Project Engineer  09/21/2021  $ 92,224  Amount Requested

Reviewed By: [Signature]  
Program Manager: CUMMING  Dated

Authorized Action:  
Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Authorized Action:  
Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Approved By: [Signature]  
Owner: City of Charleston  Dated  $ 92,224  Amount Approved
### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) SELF PERFORMED LABOR</td>
<td>$0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) MATERIAL(S) &amp; EQUIPMENT</td>
<td>$0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$84,830.00</td>
</tr>
<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
<td>$84,830</td>
</tr>
<tr>
<td>A8</td>
<td>CCIP @ 2.50%</td>
<td>$2,120.75</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard @ 0.012</td>
<td>$1,017.96</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk @ 0.84%</td>
<td>$712.57</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond @ 0.00732</td>
<td>$620.96</td>
</tr>
<tr>
<td>A14</td>
<td>Procore @ 0.04500%</td>
<td>$38.17</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit @ 3.25%</td>
<td>$2,883.38</td>
</tr>
</tbody>
</table>

**SUBTOTAL** $84,830

**ESTIMATE TOTAL** $92,224
### General Requirements (GR’s) & General Conditions (GC’s)

**DESCRIPTION**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Rate</th>
<th>Unit</th>
<th>Units</th>
<th>Subtotal</th>
<th>Total</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements (GR's) &amp; General Conditions (GC's)</td>
<td>$0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Trade Directs

**DESCRIPTION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Unit</th>
<th>Units</th>
<th>Subtotal</th>
<th>Total</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$98,410.00</td>
<td>1</td>
<td>LS</td>
<td>$98,410.00</td>
<td></td>
<td>As Discussed with City / Cumming / MN at time of Bulletin Release. Team agreed to rework Catwalk with an appox cost of 100K</td>
</tr>
<tr>
<td>1</td>
<td>Catwalk Work Related to Bulletin 27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Delete Remove Catwalk and Reinstall</td>
<td>$(13,580.00)</td>
<td>1</td>
<td>LS</td>
<td>$(13,580.00)</td>
<td></td>
</tr>
</tbody>
</table>

**Direct Work Subtotal** $84,830
PROPOSED CHANGE ORDER

LYNDON STEEL COMPANY LLC
1947 Union Cross Road
Winston-Salem, NC 27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

PROPOSED CHANGE ORDER #: 39
REVISION #: N/A
LSC CONTRACT #: 19041
DATE: 02/16/21

TO: Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209

Attention: Walt Lewis
Phone: 919-788-2024 FAX: -

PROJECT: International African American Museum
Charleston, SC

Description | Catwalk Changes
---|---
NOCH #: 46

**DESCRIPTION**

- Added cost for field work to date, taking catwalk material down off roof.
- Also, added cost for new detailing and engineering to modify design and fabricate new posts, channel and tube stubs for catwalk and reinstalling at roof per Turner's request.
- See attached Change Order from M&C Metals, LLC for added material and detailed description of installation cost.

*Sandblasting and prime painting new material included.*

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>A/D</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>M&amp;C Metal Works, LLC - Item #1</td>
<td>ADD</td>
<td>$13,580</td>
</tr>
<tr>
<td>Removal of Catwalk work complete to date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M&amp;C Metal Works, LLC - Item #2</td>
<td>Material</td>
<td>ADD</td>
</tr>
<tr>
<td>Cost for requested modifications</td>
<td>Install</td>
<td>ADD</td>
</tr>
<tr>
<td>Overhead &amp; Profit</td>
<td>ADD</td>
<td>$12,381</td>
</tr>
<tr>
<td>Bonding</td>
<td>ADD</td>
<td>$984</td>
</tr>
<tr>
<td></td>
<td>Tax</td>
<td>$2,505</td>
</tr>
</tbody>
</table>

This change will ADD an additional 15 WORK DAYS to our scheduled scope of work.

<table>
<thead>
<tr>
<th>Accepted</th>
<th>Turner Const Signature:</th>
<th>Date: 90,910.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSC Signature:</td>
<td>Date: 02/16/21</td>
<td></td>
</tr>
</tbody>
</table>

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company.
Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.
If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
DeWitt,

Please see change order cost for work associated with IAAM catwalk. Please review and call me to discuss if any questions. Please note that item 1 is already complete and part of item #2 completed.

1. LABOR & EQUIPMENT TO REMOVE PREVIOUSLY INSTALLED CATWALK FRAMING OFF OF ROOF.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABOR</td>
<td>$ 9,845.00</td>
</tr>
<tr>
<td>EQUIPMENT</td>
<td>$ 2,500.00</td>
</tr>
<tr>
<td>MARKUP (10%)</td>
<td>$ 1,235.00</td>
</tr>
</tbody>
</table>

ADD FOR ITEM #1 ________________ $13,580.00

This cost includes removal and installation of Catwalk. 
Removal 10,080.00 
Installation 3,500.00

2. REVISE CATWALK LAYOUT AND MODIFY DESIGN TO ACCOMMODATE REQUIRED CHANGES PER SITE REQUEST. THIS INCLUDES DETAILING NEW DRAWING SECTIONS, ENGINEERING THE NEW POST LAYOUT, CUTTING EXISTING POSTS OFF OF CATWALK FRAMING, MATERIAL & LABOR TO FABRICATE NEW CATWALK POSTS, MATERIAL AND LABOR TO FABRICATE CHANNEL AND TUBE STEEL STUBS, SANDBLASTING AND PRIMING NEW POSTS AND STUBS, INSTALLING NEW POST ON ROOF, FIELD WELDING STUBS TO CURRENT FRAMING, SETTING NEW FRAMING BACK ON ROOF (STUB POSTS TO BE SAT DOWN INSIDE OF NEWLY INSTALLED ROOF POSTS).

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATERIAL (4406 #)</td>
<td>$ 4,186.00</td>
</tr>
<tr>
<td>SHOP LABOR (192 x $55)</td>
<td>$10,560.00</td>
</tr>
<tr>
<td>SANDBLAST &amp;PRIMER (4406#)</td>
<td>$ 2,585.00</td>
</tr>
<tr>
<td>FREIGHT</td>
<td>$ 1,150.00</td>
</tr>
<tr>
<td>DETAILING</td>
<td>$ 3,870.00</td>
</tr>
<tr>
<td>ENGINEERING (lump sum from engineer for calcs, time on several calls)</td>
<td>$ 2,950.00</td>
</tr>
<tr>
<td>FIELD LABOR (5 men x 100 hrs)</td>
<td>$32,490.00</td>
</tr>
<tr>
<td>EQUIPMENT (fork lift &amp; boom lift)</td>
<td>$ 4,900.00</td>
</tr>
<tr>
<td>MARKUP (10%)</td>
<td>$ 6,269.00</td>
</tr>
</tbody>
</table>

ADD FOR ITEM #2 ________________ $68,960.00

M&C Metal Works, LLC

By Greg Marlow
To: Edmund V. Most  
From: Mike Risteski  
Date: 10/1/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 151  
Contract: Construction

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>Additional Steel for MEP</th>
</tr>
</thead>
<tbody>
<tr>
<td>This change is associated with the materials and labor of installing additional steel in the building in locations where MEP penetrations had to be created in the structural steel.</td>
<td>A - Customer Requested Change</td>
</tr>
<tr>
<td></td>
<td>B - Code/Regulatory Agency Required Change</td>
</tr>
<tr>
<td></td>
<td>C - Errors and Omissions</td>
</tr>
<tr>
<td></td>
<td>D - Replacing Unsuitable Soils</td>
</tr>
<tr>
<td></td>
<td>E - Soils Related Change Other</td>
</tr>
<tr>
<td></td>
<td>F - Unforeseen Conditions</td>
</tr>
<tr>
<td></td>
<td>G - Time Related Change</td>
</tr>
<tr>
<td></td>
<td>H - Liquidated Damages</td>
</tr>
<tr>
<td></td>
<td>I - Value Engineering Change</td>
</tr>
<tr>
<td></td>
<td>J - Exercising Pre-Priced Option (Allowance)</td>
</tr>
<tr>
<td></td>
<td>K - Accounting Error</td>
</tr>
<tr>
<td></td>
<td>(Indicate Reason for Change Proposal)</td>
</tr>
</tbody>
</table>

Justification: F - Unforeseen Conditions

Attachments:  
- JSA from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed): $3,394.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  
Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:

Decision needed by: October 1, 2021  
(No) (Yes)  
(Circle One)  
Mike Risteski, Cumming Corp.

Approved:  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan  
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
To provide additional steel per RFI 397.

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [x] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [x] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] Work Authorization is Requested By:

**Submitted By:**
**Contractor:** **TURNER BROWNSTONE**

<table>
<thead>
<tr>
<th>Date Submitted:</th>
<th>07/20/21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Lewis</td>
<td></td>
</tr>
<tr>
<td>Project Engineer</td>
<td>Dated</td>
</tr>
</tbody>
</table>

**Amount Requested:** $3,394

**Reviewed By:**
**Program Manager:** **CUMMING**

| / | / | Dated |

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Requested Action:**

**Approved By:**
**Owner:** **City of Charleston**

| / | / | Dated |

**Amount Approved:** $3,394
## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

**SUBTOTAL TRADE DIRECTS** $3,122

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4</td>
<td>CCIP</td>
<td>$78.05</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard@ 0.012</td>
<td>$37.46</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk@ 0.84%</td>
<td>$26.22</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>$22.85</td>
</tr>
<tr>
<td>A14</td>
<td>Procore@ 0.04500%</td>
<td>$1.40</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit@ 3.25%</td>
<td>$106.12</td>
</tr>
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</table>

**ESTIMATE TOTAL** $3,394
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>$0</td>
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</tr>
<tr>
<td>TRADE DIRECTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1  To Provide and install additional Steel per RFI 397</td>
<td>$3,122.00</td>
<td>1</td>
<td>LS</td>
<td>$3,122.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$3,122

DIRECT WORK SUBTOTAL $3,122
PROPOSED CHANGE ORDER

LYNDON STEEL COMPANY LLC
1947 Union Cross Road
Winston-Salem, NC 27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

TO: Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209
Attention: Walt Lewis
Phone: 919-788-2024 FAX: -

PROJECT: International African American Museum
Charleston, SC

PROPOSED CHANGE ORDER #: 25
REVISION #: N/A
LSC CONTRACT #: 19041
DATE: 10/30/20

Description: RFI #397 Response Dated 8/24/20

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>A/D</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added cost due to receipt of RFI #397 response dated 8/24/20.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Added (2) HSS 7.62x.375 and (18) 3/8&quot; reinforcement plates to support beam penetrations required for the sanitary system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference LSC Drawings FW2006, FW3017, 2040, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041 and 3042.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>See attached Proposed Detailing Extras Forms for additional description of revision detailing.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Materials  ADD  $225
Shop Labor ADD  $1,120
Detailing ADD  $425
Freight ADD  $900
Overhead & Profit ADD  $401
Bonding ADD  $31

Total TAX $20

This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.

Total This Change Order: $3,122

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

Turner Const Signature: Date:
LSC PM: DeWitt Friedermann
e-mail: DFriedermann@lyndonsteel.com Prepared by: Spencer Fleming

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.

If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.

L1007 LSC PROJECTS\1903\19041 INTERNATIONAL AFRICAN AMERICAN MUSEUM (CHARLESTON, SC)\Accounting\L-Final PCS - International African American Museum - Charleston, SC, also
CG15
**PROPOSED DETAILING EXTRAS**

**Sheet # 1 of 1**

**Job No.** 9041  
**Job Name** International African American Museum  
**Detaller Reference CO #** AC  
**NOC#** 28 (Contact PM or DC for number)

**Source of Change:** Bulletin 15  
Added (1) rectangular penetration and (1) pipe sleeve on grid line C.5 between line 7.5 & 8.5.

**General Description of Change:**  
Added (1) rectangular penetration and (1) pipe sleeve on grid line C.5 between line 7.5 & 8.5.

**List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision**  
Added (2) field work drawings.

<table>
<thead>
<tr>
<th>Detail Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

**List of REVISED PIECE MARKS & Status**  
Added (2) field work drawings.

<table>
<thead>
<tr>
<th>Shop Drawing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

**Total Detailing Hours this sheet**  
4

**Total Checking Hours this sheet**  
1

**Total Impact to Schedule, ALL sheets:**  
5

**Total Hours this sheet**  
5

**Detailing Coord. Review:**

<table>
<thead>
<tr>
<th>Initial</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Project Manager Acceptance:**

<table>
<thead>
<tr>
<th>Signature</th>
<th>Dated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** The detailer is not to proceed with changes until this form is signed and returned.

For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

**NOTE:** The detailer has the option of using their standard company form if all the above information is included.

**Fax to:** Detaller  
**CC:** PM, PC, NOC Estimator  
**Original:** BB
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 1/10/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 152  
Contract: Construction

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>Additional Steel per ASI 21</th>
</tr>
</thead>
<tbody>
<tr>
<td>This change is associated with the materials for the installation of the supporting angles for brick.</td>
<td></td>
</tr>
<tr>
<td>The original design was conceptual and the structural steel subcontractor and detailer with the help of the design team created substitutions.</td>
<td></td>
</tr>
</tbody>
</table>

**Justification:**  
F - Unforeseen Conditions

**Attachments:**  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)

**Proposal Cost (not to exceed):**  
$29,974.00  
**Owner Contingency Allow. Bal.:**

**Time Extension Requested:**

**Time Extension Recommended:**

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

**Approved:**  
- Rick Holt, Cumming Corp.  
- Robert Faust, Cumming Corp.  
- Edmund V. Most, City of Charleston  
- Bernard Costantino, Moody Nolan

**Decision needed by:**  
January 10, 2022
PROPOSED CHANGE ORDER

LYNDON STEEL COMPANY LLC
1947 Union Cross Road, Winston-Salem, NC 27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

TO: Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209

Attention: Walt Lewis
Phone: 919-788-2024

PROJECT: International African American Museum

DESCRIPTION

<table>
<thead>
<tr>
<th>Description</th>
<th>A/D</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added cost due to receipt of ASI 021 dated 8/5/20.</td>
<td></td>
<td></td>
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<tr>
<td>Detail 6: Added (2) 1/2&quot; plates with C6x10.5 and (28) 1/4&quot;-1/8&quot; shim packs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detail 7: Revised (2) steel tubes, piece marked 22022, adding (12) galvanized connection L4x4xx1/2's, and (6) 3/4&quot; plates with shop attached 5/8&quot; threaded rods.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detail 8: Added (16) 1/4&quot; bent plates at head and sill of W7 windows.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference revised LSC Drawings 22022, E22005r1 and E22006r1, and new Drawings 22032 through 22036.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>See attached Proposed Detailing Extras Forms for additional description of revision detailing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installation of 1/4&quot; bent plates at head and sills of W7 windows, attaching to cold formed framing is not included.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Materials | ADD | $3,258 |
Shop Labor | ADD | $3,120 |
Detailing | ADD | $1,105 |
Freight | ADD | $1,800 |
Erection - CAS Steel | ADD | $16,266 |
Overhead & Profit | ADD | $3,832 |
Bonding | ADD | $300 |

TAX | | $293 |

This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.

Total This Change Order: $29,974

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

LSC Signature: Date: 09/22/20

Prepared By: Spencer Fleming

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items. If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
**Source of Change:**  ASI 021.pdf

Revised (2) frames per W4 window wall head support detail #7, added (2) frames per W4 window wall sill support detail #6.

Added (8) frames per W7 window wall head and sill support details #8.

---

**General Description of Change:**

Revised (2) frames per W4 window wall head support detail #7, added (2) frames per W4 window wall sill support detail #6.

Added (8) frames per W7 window wall head and sill support details #8.

---

**List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision**

<table>
<thead>
<tr>
<th>Detail Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

Revised (2) frames shop drawings, added (2) new frames shop drawings for W4 window.

Added (2) new frames shop drawings for W7 window.

---

**List of REVISED PIECE MARKS & Status**

<table>
<thead>
<tr>
<th>Shop Drawing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

Revised (2) frames shop drawings, added (2) new frames shop drawings for W4 window.

Added (2) new frames shop drawings for W7 window.

---

**Total Detailing Hours this sheet**: 10

**Total Checking Hours this sheet**: 3

**Total Impact to Schedule, ALL sheets**: 13

**Total Hours this sheet**: 13

**Detailing Coord. Review:**

(Initial / Date)

(Comment)

**Project Manager Acceptance:**

(Signature)  (Dated)

**NOTE:** The detailer is not to proceed with changes until this form is signed and returned.

For urgent and /or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

**NOTE:** The Detailer has the option of using their standard company form if all the above information is included.

**Fax to:**  Detailer  
**CC:**  PM, PC, NOC Estimator  
**Original:**  BB
ARCHITECT’S SUPPLEMENTAL INSTRUCTIONS / CLARIFICATION

PROJECT NO. 15490
TO Bobby Teachey

FROM Bernie Costantino

The work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. If additional cost or time is involved, please advise in writing prior to proceeding in accordance with these instructions. Otherwise, no response is required and acceptance is assumed.

DESCRIPTION:
Clarification of W4 and W7 Window Wall support details.

Sketches:
PCF Detail #6 dated July 30, 2020 with TTFE mark up for W4 Window Wall Sill Support Detail.
PCF Detail #7 dated July 30, 2020 with TTFE mark up for W4 Window Wall Head Support Detail (Reference Lyndon Steel Submittal 051200-42.3 Sheet E22004 Section F).
PCF Detail #8 dated July 30, 2020 with TTFE mark up for W7 Window Wall Head and Sill Support Details.

ATTACHMENTS: All listed sketches

DISTRIBUTION:
Rick Davis
Bri’Shaé Anderson
Walter Lewis
Brianne Stasiak
Edmund Most
Rick Holt
Robert Faust
Jonathan Roberts
Julie Cook
Bob Larrimer
Matteo Milani

Lyndon Steel Company
REVISED DRAWINGS
C#
9041 NOC #27
DATE 08/05/2020
INT DF
2.03 in
6.00 in
2"x2" STEEL SHIM STACK, IF REQUIRED TO PROVIDE BEARING SURFACE.
BED IN ADHESIVE.
LOCATE AT EACH VERTICAL STEEL STUD.
VERTICAL REACTION OF 283 PLF TO BE REVIEWED BY STUD SUBCONTRACTOR.

1/2" HILTI KWIKBOLT TZ ANCHOR
12" O/C
2" MINIMUM EFFECTIVE EMBED DEPTH

C6x10.5 CONTINUOUS CHANNEL WELDED TO STEEL PLATE

3/16" Fillet Weld 1" long, 12" o/c

1/2" THICK CONTINUOUS STEEL PLATE

PLASTIC HORSESHOE SHIM AT EACH ANCHOR. 1/2" MAXIMUM THICKNESS.
Weld stud, detail per Lyndon drawing above.

Welded plate, detail per Lyndon drawing above.

12" long x 1/2" thick angles at each anchor point (1 at each jamb, 1 at center vertical)

1/2" A325 Bolts (x2)

1/2" A325 Bolts (x2)

3/4" Min.

7/8" Min.

3 Min.

Confirmed.

Lyndon Steel Company

REVISED DRAWINGS
08/05/2020
9041 NOC #27
DF

DETAIL #7

NOTE MODIFICATION (WINDOW ANCHOR)
**#10-16 Elco Biflex Screws.**

- x5 at 3" o/c at each jamb, see elevation above.

**Steel Angles:**

- To be verified and engineered by TTTE.

**Note:**

- Reinforcement plate not required.
- 1/4" thick A36 continuous bent steel plate. Full width of window, overlapping vertical steel studs at jambs.

**Plastic horseshoe shims** as required for bearing of plate edge against studs.

**Rev. 1:**

- Note modification (window anchor)
To: Edmund V. Most  
From: Mike Risteski  
Date: 1/13/2022  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 153

Description of work to be performed: ASI 26 & 27 Additional Steel  
This change is associated with the materials for the installation of the supporting angles at the windows.  
The original design was conceptual and the structural steel subcontractor and detailer with the help of the design team created substitutions.  

Justification: F - Unforeseen Conditions

Attachments:  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)  

Proposal Cost (not to exceed): $144,265.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  

Time Extension Requested:  
Time Extension Recommended:  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed):  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: January 10, 2022  

(YES) (NO) (Circle One)  
Approved:  

(YES) (NO) (Circle One)  
Rick Holt, Cumming Corp.  

(YES) (NO) (Circle One)  
Robert Faust, Cumming Corp.  

(YES) (NO) (Circle One)  
Edmund V. Most, City of Charleston  

(YES) (NO) (Circle One)  
Mike Risteski, Cumming Corp.  

(YES) (NO) (Circle One)  
Bernard Costantino, Moody Nolan
**PROPOSED CHANGE ORDER**

**LYNDON STEEL COMPANY LLC**

1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209  

**PROJECT:** International African American Museum  
Charleston, SC

**Attention:** Walt Lewis  
Phone: 919-788-2024  
FAX: -

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>A/D</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added cost due to receipt of ASI 026 dated 9/16/20, and ASI 027 dated 9/18/20.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attached find narrative for description of added material.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>See attached Proposed Detailing Extras Forms for additional description of revisions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Also, attached find Invoice from CAS Steel for added erection cost.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Qualifications:**

1. Any required demolition to be completed by others prior to CAS Steel beginning work.
2. Additional mobilization cost hasn’t been included in the attached and will be in the amount of $2,300.00/mobilization if required.

<table>
<thead>
<tr>
<th>Materials</th>
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<th>$19,689</th>
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<tbody>
<tr>
<td>Shop Labor</td>
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<tr>
<td>Detailing</td>
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<td>$5,270</td>
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<tr>
<td>Freight</td>
<td>ADD</td>
<td>$1,800</td>
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<tr>
<td>Erection - CAS Steel</td>
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<td>$69,493</td>
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<tr>
<td>Overhead &amp; Profit</td>
<td>ADD</td>
<td>$18,398</td>
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<tr>
<td>Bonding</td>
<td>ADD</td>
<td>$1,443</td>
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<tr>
<td>TAX</td>
<td></td>
<td>$1,772</td>
</tr>
</tbody>
</table>

This change will ADD an additional 10 WORK DAYS to our scheduled scope of work.

| Total This Change Order: $144,265 |

**Turner Const Signature:**  
Date:  

**LSC Signature:**  
Date: 10/23/20

LSC PM: DeWitt Friedermann  
e-mail: DFriedermann@lyndonsteel.com  
Prepared By: Spencer Fleming

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company.  
Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.  
If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
Project: 9041 NOC’s 29 & 32
Location: International African Museum - Charleston, SC
Date: 10/20/2020

Added material associated with ASI 026 dated 9/16/20.
Detail 2A: Added (24) L8x4x1/2 bolted together and bolted to (12) 3/4” plates field welded under beams for W1 window wall head support.

Detail 11: Added (1) HSS 6x6x1/2 with (10) shop attached plate haunches and (11) L4x4x1/2 assemblies, bolted to (10) 3/4” plates field welded under beams, and L4x3x1/4 and 1/4” x 4-1/2” plate assembly anchored to slab at W5 for window wall head and sill support.

Detail 12: Added (1) HSS 6x6x1/2 with (6) shop attached plate haunches and (7) L4x4x1/2 assemblies, bolted to (6) 3/4” plates field welded under beams, and HSS5x3x1/4 and 1/2” x 15” plate assembly anchored to slab at W6 for window wall head and sill support. (20) 1/4” & 1/8” shim packs included.

Reference LSC Drawings E5006, 5057, 5058, 8132, 8133, 8134, E18003, 13060, 13061, 13062, 13063, 18063, 18064, 18065 and 18066 submitted for approval on 9/30/20.

Added material associated with ASI 027 dated 9/18/20.
Detail 13: Added (11) WT 9x35.5’s anchored to wall at W8-1 and W8-2 window for wall sill support.

Detail 14: Added (1) HSS 6x6x1/2 with (7) shop attached plate haunches, bolted to (7) 3/4” plates field welded under beams, at W8-1 and W8-2 window wall head support.

Detail 15: Added (16) WT 9x35.5’s anchored to wall at W8-1A window wall sill support.

Detail 16: Added (7) L 8x8x1/2’s anchored to wall at W8-1 and W8-2 window wall head support.

Reference LSC Drawings E9005, 10055, 10058, E15006, 15105, 15106, 15109, 15110 and 16054 submitted for approval on 9/30/20.

Narrative written by:
Spencer Fleming
Change Order Estimator
Lyndon Steel Company
1947 Union Cross Road
Winston Salem, NC 27107
PH: (336) 785-0848

PH: (336) 785-0848
**Source of Change:**  ASI 026

- Added (12) frames & (12) welded plates per W1 window wall head support detail #2A.
- Added (4) frames & (10) welded plates per W5 window wall head and sill support details #11.
- Added (2) frames & (6) welded plates per W6 window wall head and sill support details #12.

**General Description of Change:**

- Added (12) frames & (12) welded plates per W1 window wall head support detail #2A.
- Added (4) frames & (10) welded plates per W5 window wall head and sill support details #11.
- Added (2) frames & (6) welded plates per W6 window wall head and sill support details #12.

**List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision**

| Added (2) new shop drawings per detail #2A, added (2) new shop drawings per detail #11. |
| Added (2) new shop drawings per detail #12. |
| Added (2) new E-drawings. |

**List of REVISED PIECE MARKS & Status**

| Added (2) new shop drawings per detail #2A, added (2) new shop drawings per detail #11. |
| Added (2) new shop drawings per detail #12. |
| Added (2) new E-drawings. |

**Total Detailing Hours this sheet:** 11

**Total Checking Hours this sheet:** 3

**Total Hours this sheet:** 14

**Total Impact to Schedule, ALL sheets:**

**Detailing Coord. Review:**

**Project Manager Acceptance:**

(Initial / Date)  (Signature)  (Dated)

**NOTE:** The detailer is not to proceed with changes until this form is signed and returned.

For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

**NOTE:** The detailer has the option of using their standard company form if all the above information is included.

**Fax to:**  Detailer  **CC:**  PM, PC, NOC Estimator  **Original:**  BB
Sheet # 1 of 1

Job No. 9041  
Job Name International African American Museum

Detailer Reference CO # AE  
NOC# 32 (Contact PM or DC for number)

Source of Change: ASI 027

Added (33) WT9x35.5 per W8-1 & W8-2 window wall sill support detail #13.
Added (33) frames & (66) welded plates per W8-1 & W8-2 window wall head support details #14.
Added (5) WT9x35.5 per W8-1A window wall sill support detail #15.
Added (5) L8x8x1/2 per W8-1A window wall head support details #16.
Added (4) frames & (16) welded plates per wall section 11 (atrium) on MN_ASI_027.pdf.
Added (1) frames & (7) welded plates per wall section 13 (W6 / W9) on MN_ASI_027.pdf.
Added (2) frames & (8) welded plates per wall section 14 (atrium - niche) on MN_ASI_027.pdf.

General Description of Change:

Added (33) WT9x35.5 per W8-1 & W8-2 window wall sill support detail #13.
Added (33) frames & (66) welded plates per W8-1 & W8-2 window wall head support details #14.
Added (5) WT9x35.5 per W8-1A window wall sill support detail #15.
Added (5) L8x8x1/2 per W8-1A window wall head support details #16.
Added (4) frames & (16) welded plates per wall section 11 (atrium) on MN_ASI_027.pdf.
Added (1) frames & (7) welded plates per wall section 13 (W6 / W9) on MN_ASI_027.pdf.
Added (2) frames & (8) welded plates per wall section 14 (atrium - niche) on MN_ASI_027.pdf.

List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision

Added (22) new shop drawings and (5) new E-drawings per MN_ASI_027.pdf.

Detail Hrs. 37

List of REVISED PIECE MARKS & Status

Added (22) new shop drawings and (5) new E-drawings per MN_ASI_027.pdf.

Shop Drawing Status

Total Detailing Hours this sheet 37

Total Checking Hours this sheet 11

Total Hours this sheet 48

Total Det and Ckg Hours ALL sheets 48

Detailing Coord. Review:

Project Manager Acceptance:

(Initial / Date)  
(Signature)  
(Dated)

NOTE: The detailer is not to proceed with changes until this form is signed and returned.

For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

NOTE: The Detailer has the option of using their standard company form if all the above information is included.

Fax to: Detailer CC: PM, PC, NOC Estimator Original: BB
INVOICE

Description: NOC 29 and NOC 32 (Based on Approval Drawings)
Job: 434 IAAM
Date: TBD
Invoice Date: 19-Oct-20

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<td>Man lift</td>
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<tr>
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<td>Journeyman</td>
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<td>Firewatch</td>
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<td>Overtime</td>
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<td>$2,500.00</td>
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<td>$270.00</td>
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<td>Perdiem</td>
<td>$12.00</td>
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<td>$6,000.00</td>
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Subtotal                  $52,094.00
Expendables               10%   $3,125.64
Fuel                      6%    $5,209.40
Subtotal                  $60,429.04
OH/Profit                 15%   $9,064.36
Total                     $69,493.40

*NOTE: The above listed rates for equipment are subject to review on a case by case basis due to minimum rental durations and costs in some instances.
CUMMING
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 8/27/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 154
Contract: Construction

Description of work to be performed: Company Switch Steel Support
This change is associated with the materials and labor of additional steel support for the company switch.
The GMP drawings did not have sufficient steel support. The solution was developed to satisfy the structural needs for support and comply with the aesthetics of the environment.

Justification: C - Errors and Omissions

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $3,358.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: August 27, 2021

Approved:

(No) (Yes) (Circle One)

Signed by Edmund V. Most, City of Charleston

Bernard Costantino
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide additional Steel support for the company switch per RFI 223</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances, ROM Estimate for Entire PCO, X Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact, Evaluated - NO TIME IMPACT, Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
</tr>
<tr>
<td></td>
<td>Work has been Completed, Work Has Commenced &amp;/or is Ongoing, Work Authorization is Requested By:</td>
</tr>
</tbody>
</table>

| Submitted By:     | Contractor: TURNER BROWNSTONE 07/20/2021 | $ 3,358 |
|                   | Walter Lewis Project Engineer Dated       | Amount Requested |

| Reviewed By:      | Program Manager: CUMMING / / Dated       |

| Approved By:      | Owner: City of Charleston / / $ 3,358 |
|                   | Edmund Most Dated Amount Approved       |
## International African American Muesum
### General Summary of the Estimate

**COR No.:** 154

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

**SUBTOTAL TRADE DIRECTS** $3,089

### Other Costs

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate (%)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCIP</td>
<td>2.50%</td>
<td>$77.23</td>
</tr>
<tr>
<td>Subguard</td>
<td>0.012</td>
<td>$37.07</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>0.84%</td>
<td>$25.95</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>0.00732</td>
<td>$22.61</td>
</tr>
<tr>
<td>Procore</td>
<td>0.04500%</td>
<td>$1.39</td>
</tr>
<tr>
<td>Overhead and Profit</td>
<td>3.25%</td>
<td>$105.00</td>
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</table>

**ESTIMATE TOTAL** $3,358
**GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’s)**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
<td>$0</td>
<td></td>
<td></td>
<td></td>
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</table>

**TRADE DIRECTS**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$3,089.00</td>
<td>1</td>
<td>LS</td>
<td>$3,089.00</td>
<td></td>
</tr>
<tr>
<td>Additional steel per RFI 223</td>
<td>$</td>
<td>-</td>
<td></td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

$3,089

**DIRECT WORK SUBTOTAL** $3,089
# PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**  
1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835  

**PROPOSED CHANGE ORDER #:** 40  
**REVISION #:** N/A  
**LSC CONTRACT #:** 19041  
**DATE:** 02/22/21

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209  

**PROJECT:** International African American Museum  
Charleston, SC

**Attention:** Walt Lewis  
**Phone:** 919-788-2024  
**FAX:** -

**Description:** RFI #223 Response  
**Received:** 2/19/21  
**NOC#:** 47

## DESCRIPTION

<table>
<thead>
<tr>
<th>A/D</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Added cost due to receipt of RFI #223 response dated 3/23/20, received 2/19/21.  
Furnish and install framing for electrical panel supports at Stair #3 and Stair #4.  
See attached Change Order from M&C Metals, LLC for added material and installation cost.

M&C Metal Works, LLC  
Material  
ADD $1,936

Overhead & Profit  
Install  
ADD $572  
ADD $376

Bonding  
ADD $31

TAX $174

This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.

**Total This Change Order:** $3,089

---

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Turner Const Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>LSC Signature:</td>
<td>Date: 02/22/21</td>
</tr>
</tbody>
</table>

LSC PM: DeWitt Friedermann  
e-mail: DFriedermann@lyndonsteel.com  
Prepared By: Spencer Fleming

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company.  
Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.  
If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
DeWitt,

Please see change order cost for work associated with RFI 223. Please call me to discuss if any questions.

1. LABOR & MATERIAL TO ADD FRAMING AND OPENINGS AT MESH PANELS OF STAIR 3 AND STAIR 4 FOR ELECTRICAL PANEL (PER RFI 223).

ADD FOR MATERIAL ITEM #1 $1,936.00
ADD FOR INSTALL ITEM #1 $572.00

M&C Metal Works, LLC
By Greg Marlow
To: Edmund V. Most  
From: Mike Risteski  
Date: 10/1/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 155  
Contract: Construction (CMR/ARCHITECT/ENGINEER/OTHER)  

Description of work to be performed: Exterior Door Power  
This change is associated with the materials and labor providing 120v power to the exterior doors for access control. In addition to the power the COR contains quotes for the patching and repair of the drywall system as well as painting of the affected areas.  

Justification: C - Errors and Omissions  

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed): $16,401.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:  

Decision needed by: October 1, 2021  

(YES) (NO)  
(Circle One) Mike Risteski, Cumming Corp.  

Approved:  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan  
(Circle One)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: |  
| To Supply 120V power to the exterior doors. |

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [X] Design Issue

**Pricing:**
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work Authorization is Requested By:

**Submitted By:**
- [Signature]
- [Date Submitted: 07/29/2021]

**Contractor:** TURNER BROWNSTONE
- [Amount Requested: $16,401]

**Reviewed By:**
- [Program Manager: CUMMING]
- [Date Reviewed: / / ]

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**
- [Owner: City of Charleston]
- [Date Approved: / / ]

**Amount Approved:** $16,401
### International African American Museum

**General Summary of the Estimate**

<table>
<thead>
<tr>
<th>Item #</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR $0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT $0</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$15,086.00</td>
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**SUBTOTAL TRADE DIRECTS** $15,086

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<th>Description of Work</th>
<th>DETAIL</th>
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<tbody>
<tr>
<td>A4</td>
<td>CCIP</td>
<td>2.50%</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>0.012</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>0.84%</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>0.00732</td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>0.04500%</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>3.25%</td>
</tr>
</tbody>
</table>

**SUBTOTAL** $15,086

- CCIP @ 2.50% = $377.15
- Subguard @ 0.012 = $181.03
- Builders Risk @ 0.84% = $126.72
- Performance and Payment Bond @ 0.00732 = $110.43
- Procore @ 0.04500% = $6.79
- Overhead and Profit @ 3.25% = $512.78

**ESTIMATE TOTAL** $16,401
## GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
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<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
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</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
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## TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$6,636.00</td>
<td>1 LS</td>
<td>$6,636.00</td>
<td></td>
</tr>
<tr>
<td>To add power to the exterior doors per design team request</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Patch Walls and make ready for Repaint Allowance</td>
<td>$400.00</td>
<td>13 EA</td>
<td>$5,200.00</td>
<td></td>
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<tr>
<td>3 Repaint Walls as Necessary to complete work Allowance</td>
<td>$250.00</td>
<td>13 EA</td>
<td>$3,250.00</td>
<td></td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** $15,086
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

SCOPE OF WORK:
Electrified Door Hardware additional locations for power.

Revision 1: Removes duplex devices and reduces quantity of locations to (13).

Includes
Conduit and wire for (14) new locations for electrified hardware power.
(1) 120 volt, 20 amp device per location. (14) total.
No new homerun circuits or circuit breakers. Use existing circuits.

Excludes
Electrified door hardware.
Furnishing or installation of door hardware.
Cutting and pathcing of ceilings or walls.

Clarifications
Door hardware is hardwired.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.

This price is good for acceptance within 10 days from the date of receipt.

We request a time extension of 4 days.

We will supply and install all materials, labor, and equipment as per your instructions on <CCN_51>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; CONDUIT - EMT</td>
<td>455</td>
<td>692.15</td>
<td>22.75</td>
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<tr>
<td>3/4&quot; CONN COMP STL - EMT</td>
<td>2</td>
<td>8.12</td>
<td>0.28</td>
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<tr>
<td>3/4&quot; COUPLING COMP STL - EMT</td>
<td>46</td>
<td>215.44</td>
<td>13.80</td>
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<tr>
<td>1/2 OR 3/4&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>49</td>
<td>98.89</td>
<td>2.45</td>
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<tr>
<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>1</td>
<td>6.42</td>
<td>0.12</td>
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<tr>
<td>#12 THHN SOLID BLACK</td>
<td>1,502</td>
<td>716.15</td>
<td>9.01</td>
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<tr>
<td>WIRE CONN RED</td>
<td>3</td>
<td>0.74</td>
<td>0.27</td>
</tr>
<tr>
<td>4x 1 1/2&quot; SQ BOX COMB KO</td>
<td>1</td>
<td>17.48</td>
<td>0.30</td>
</tr>
<tr>
<td>4&quot; SQ BLANK COVER</td>
<td>1</td>
<td>6.50</td>
<td>0.08</td>
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<tr>
<td>#8x 1/2 WAFER HEAD SELF-TAP STUD SCREW - 12G</td>
<td>2</td>
<td>0.08</td>
<td>0.10</td>
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Totals                                            | 2,062 | 1,761.95 | 49.16      |
## PROPOSED CHANGE ORDER

**PCO #**: 53  
**Page Number**: 2

### Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>General Materials</td>
<td>1,761.95</td>
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<tr>
<td>Material Tax</td>
<td>158.58</td>
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<td><strong>Material Total</strong></td>
<td><strong>1,920.53</strong></td>
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<tr>
<td>JOURNEYMAN (49.16 Hrs @ $45.00)</td>
<td>2,212.20</td>
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<tr>
<td>FOREMAN (7.37 Hrs @ $50.00)</td>
<td>368.50</td>
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<tr>
<td>SAFETY @ 3.5% (1.72 Hrs @ $52.00)</td>
<td>89.44</td>
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<tr>
<td>PM&amp;S (58.25 @ 0.00 @ $6.50 + 0.00% + 0.00% + 0.00%)</td>
<td>376.63</td>
</tr>
<tr>
<td>VDC (58.25 @ 0.00 @ $1.00 + 0.00% + 0.00% + 0.00%)</td>
<td>58.25</td>
</tr>
<tr>
<td>VEHICLES (58.25 @ 0.00 @ $2.50 + 0.00% + 0.00% + 0.00%)</td>
<td>145.63</td>
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<tr>
<td>CONSUMABLES (58.25 @ 0.00 @ $0.30 + 0.00% + 0.00% + 0.00%)</td>
<td>17.48</td>
</tr>
<tr>
<td>HEALTH ADN HYGEINE (58.25 @ 0.00 @ $1.00 + 0.00% + 0.00% + 0.00%)</td>
<td>58.25</td>
</tr>
<tr>
<td>SCISSOR LIFT (1.00 @ 1.00 @ $440.00 + 0.00% + 0.00% + 0.00%)</td>
<td>440.00</td>
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<tr>
<td><strong>Subtotal</strong></td>
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<tr>
<td>Overhead (@ 10.000 %)</td>
<td>568.89</td>
</tr>
<tr>
<td>Markup (@ 5.000 %)</td>
<td>312.89</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td><strong>6,570.69</strong></td>
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<tr>
<td>Adjustment #1-BOND (@ 1.000 %)</td>
<td>65.71</td>
</tr>
<tr>
<td><strong>Final Amount</strong></td>
<td><strong>$6,636.40</strong></td>
</tr>
</tbody>
</table>

### CONTRACTOR CERTIFICATION

Name:  
Date:  
Signature:  

I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

PCO #: 53  
Final Amount: $6,636.40

Name:  
Date:  
Signature:  

Change Order #:  

I hereby accept this quotation and authorize the contractor to complete the above described work.
AJ,
See attached revised Door Hardware proposal.

Dale Winovich
Operations Manager
3215 Fortune Drive
North Charleston, SC 29418
M: 843-637-5873
dwinovich@watsonelec.com

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 601 | Charlotte, NC 28209
Mobile 980.406.0287 | alodato@tcco.com

George – during our walk with Sarah today lets show her how you plan to pipe the receptacle to power supply.

AJ, I will have the quantity and receptacle revision to you today.
As far as the conduit length, if Sarah wants to come out an measure from the closest junction box to the door locations she’s welcome to. Her comment about the length is based on a guess. I walked the floor and came up with an average length from closest junction boxes to final locations.

Dale Winovich
Operations Manager
3215 Fortune Drive
North Charleston, SC 29418
M: 843-637-5873
dwinovich@watsonelec.com

From: LoDato, AJ - (CAR) <alodato@tcco.com>
Sent: Thursday, July 15, 2021 8:27 AM
To: Winovich, Dale <DWinovich@watsonelec.com>
Cc: Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: FW: Power to Door Hardware

Dale,

See the attached comments from ARUP regarding the electrified hardware change. I’d like to get this revised and resent soon if we could. Call me if you’d like to talk it through.

Thanks,

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 601 | Charlotte, NC 28209
Mobile 980.406.0287 | alodato@tcco.com

From: LoDato, AJ - (CAR)
Sent: Thursday, July 15, 2021 7:47 AM
To: LoDato, AJ - (CAR) <alodato@tcco.com>
Subject: FW: Power to Door Hardware

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 601 | Charlotte, NC 28209
Mobile 980.406.0287 | alodato@tcco.com

From: Sarah Aarons [mailto:sarah.aarons@arup.com]
Sent: Tuesday, July 13, 2021 11:29 AM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>; Mike Risteski <mristeski@ccorpusa.com>; Robert H. Faust <bfaust@ccorpusa.com>; Cook, Julie <jcook@moodynolan.com>
Cc: LoDato, AJ - (CAR) <alodato@tcco.com>; Davis, Richard F - (ATL) <rfdavis@tcco.com>
Subject: RE: Power to Door Hardware
All,

Please see attached Arup’s comments on this proposed change order. The main comments are:

• The CO calls for a receptacle at each location, but the PS902 power supplies are hardwired
• Also, the quantity should be 13, not 14 (in the email list attached to the CO, one is a duplicate)
• The conduit and conductor lengths should be reviewed and reduced based on the proximity of the convenience receptacle circuits to be used.

Thanks,

Sarah Aarons

d  +1 202 729 8239
m  +1 202 779 3990

What is the status of this. I need to know how to proceed and is there official direction coming?

Please advise.

Thanks
Walt

As discussed in the OAC this afternoon attached is the info I am trying to get sorted out so I know what we need to do. Attached is the pricing for the Email on the 2nd page that outlines where we need to have power for the door hardware where we currently do not.

I believe this is the overall idea of what is going on.

Please confirm

1) Will this be a Bulletin
2) We probably need a meeting on this to make sure we are moving in the right direction.

Thanks
Walt

Walter Lewis | Project Manager
Turner Construction Company
Mobile: 704.936.6991
Email: wlewis@tcco.com

Electronic mail messages entering and leaving Arup business systems are scanned for viruses and acceptability of content.

This email has been scanned for email related threats and delivered safely by Mimecast.

This email has been scanned for email related threats and delivered safely by Mimecast.
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 8/27/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Proposal No.: Change Order Request No. 156
Contract: Construction

Description of work to be performed: Irrigation Redesign - City of Charleston
This change is associated with the materials and labor of installing a newly redesigned irrigation system.
Prior to installation the City of Charleston during a review noted significant changes to the components and layout of the system. This resulted in a complete redesign of the system.
The COR is the difference from the credit of the original system and the cost of the redesigned system.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $35,618.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: August 27, 2021

Approved:

[Signatures]

Digitally signed by Bernard Costantino
CN: CN=BOB Costantino, O=Cumming Corp., OU=Miami Field, CN=BOB Costantino
Date: 2021.09.02 20:45:05
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Work Description: Irrigation changes per the City of Charleston

Reason: [X] Owner Directive

Pricing:
- [ ] Lump Sum or Firm Fixed Unit Pricing
- [ ] ROM Estimate for Entire PCO
- [ ] ROM Estimate of GR's & Insurances

Time Impact:
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluating - NO TIME IMPACT
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Submitted By: [Signature] Walter Lewis
Contractor: TURNER BROWNSTONE
08/16/2021

Amount Requested: $35,618

Reviewed By: [Signature] Program Manager: CUMMING
Dated / /

Approved By: [Signature] Owner: City of Charleston
Dated / /

Amount Approved: $35,618
**General Summary of the Estimate**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<td>A3</td>
<td>TRADE DIRECTS</td>
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**SUBTOTAL TRADE DIRECTS** $32,762

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<td>$819.05</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
<td>$393.14</td>
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<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
<td>$275.20</td>
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<td>A11</td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
<td>$239.82</td>
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<tr>
<td>A14</td>
<td>Procore</td>
<td>@ 0.04500%</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
<td>$1,113.58</td>
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**SUBTOTAL** $32,762

**ESTIMATE TOTAL** $35,618
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<th>Unit</th>
<th>UNITS</th>
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<th>TOTAL</th>
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<td>Additional Scope of Work</td>
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<td>1</td>
<td>LS</td>
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<td>Supply Power to the New Booster Pump (Using Lighting Conduit and running new circuit for Pump)</td>
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<td>1</td>
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<td>Item</td>
<td>Spec</td>
<td>QTY</td>
<td>Price</td>
<td>Total</td>
<td>Notes/Subs</td>
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<tr>
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<td>-----------</td>
<td>-----------</td>
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</tr>
<tr>
<td>Change Order Irrigation ReDesign</td>
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Notes:
1) Pricing valid for 30 days
2) 1-1/2 HP Booster pump - 230 volt, single phase included
3) Power for pump provided by others
4) Hot box fiberglass pump cover included, special order has a lead time
5) Pricing does not include permit fees, water meter, tap fees and back flow, all provided by others
Submittal #32 84 00-9.0
32 84 00 - Planting Irrigation

SPEC SECTION: 32 84 00 - Planting Irrigation
CREATED BY: 
STATUS: Open
DATE CREATED: 08/04/2021
ISSUE DATE: 08/04/2021
REVISION: 0
RESPONSIBLE CONTRACTOR: The Greenery
RECEIVED FROM: Jared Holland
RECEIVED DATE: //
FINAL DUE DATE: 08/18/2021
LOCATION: 
TYPE: Shop Drawing
COST CODE: 
APPROVERS: Bri'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)
BALL IN COURT: Bri'Shae Anderson (Turner Construction (CAR))

DISTRIBUTION: Walter Lewis (Turner Construction (CAR)), Bobby Langdale (Turner Construction (ATL)), Carlos Faro (Turner Construction (CAR)), Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan), Bri'Shae Anderson (Turner Construction (CAR))

DESCRIPTION:

SUBMITTAL WORKFLOW

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<th>DUE DATE</th>
<th>RETURNED DATE</th>
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<td>8/4/2021</td>
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<td>Submitter</td>
<td>8/18/2021</td>
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<td>3</td>
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</table>

Reviewed by Turner for General Compliance with the contract documents only. This review does not relieve the subcontractor of the responsibility for making the work conform to the requirements of the contract. The subcontractor is responsible for all dimensions, correct fabrication, and accurate fit with the work of other trades.

SUBMITTAL # 328400-9 Irrigation Redesign SD

TURNER-BROWNSTONE
REVIEWED BY: bdanderson DATE: 08/04/2021
Reviewed by Turner for General Compliance with the contract documents only. This review does not relieve the subcontractor of the responsibility for making the work conform to the requirements of the contract. The subcontractor is responsible for all dimensions, correct fabrication, and accurate fit with the work of other trades.

SUBMITTAL # 328400-9 Irrigation Redesign SD

TCCo Atl/Car
Irrigation Redesign PD

SPEC SECTION: 32 84 00 - Planting Irrigation

STATUS: Open

ISSUE DATE: 08/17/2021

RESPONSIBLE CONTRACTOR: The Greenery

RECEIVED DATE: //

FINAL DUE DATE: 08/31/2021

TYPE: Product Data

APPROVERS: Bri'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)

BALL IN COURT: Bri'Shae Anderson (Turner Construction (CAR))

DISTRIBUTION: Mike Risteski (Cumming), Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan)

DESCRIPTION:

ATTACHMENTS:

SUBMITTAL WORKFLOW

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<th>DUE DATE</th>
<th>RETURNED DATE</th>
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<th>COMMENTS</th>
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<tr>
<td>2</td>
<td>Brad Stober</td>
<td>Submitter</td>
<td>8/31/2021</td>
<td></td>
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<tr>
<td>3</td>
<td>Bri'Shae Anderson</td>
<td>Approver</td>
<td>8/17/2021</td>
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<td>4</td>
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<td>5</td>
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<td>Approver</td>
<td>8/31/2021</td>
<td></td>
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</tbody>
</table>
GT IRRI-GATOR®
SELF-PRIMING CENTRIFUGAL PUMPS - 60 HZ
APPLICATIONS

Specifically designed for the following uses:
- Lawn sprinkling
- Heat pumps
- Irrigation
- Water transfer
- Air conditioning systems
- Dewatering

SPECIFICATIONS

**Pump:**
- Pipe connections: 1½” NPT suction • 1½” NPT discharge
- Capacities: to 110 gpm at 5 foot suction lift
- Heads: to 128 feet
- Reprime capabilities: to 25 feet suction lift
- Maximum water temperature: 140° F (60° C)
- Maximum working pressure: 125 psi
- Rotation: clockwise when viewed from motor end.

**Motor:**
- NEMA standard open drip proof
- 60 Hz, 3500 rpm
- Stainless steel shaft
- Three phase: 230/460 V. Overload protection must be provided in starter unit. Starter and heaters (3) must be ordered separately.
- Optional TEFC motors are available. See price book for order numbers.

**Options:**
- Add a “B” suffix for a silicon brass impeller, ex. GT07B
- Add an “S” suffix for an extended (higher) base.

**Features:**
- Self-Priming Design: Once pump is initially primed, filled with water, it will reprime when the water level rises above the end of the suction pipe.
- Easy Servicability:
  - Back pullout design allows disassembly of pump for service without disturbing piping.
  - Two compartment motor for easy access to motor wiring and replaceable components.
- Diffuser (Guidavane): Bolt down diffuser provides positive alignment with impeller. FDA compliant, injection molded, glass-filled engineered composite for durability and abrasion resistance.
- Corrosion Resistant: Electrocoat paint process is applied inside and out, then baked on.

**Agency Listings**
- Canadian Standards Association (except GT30_)
- Class 6853 01 - Low Lead Content Certification
- Suitable for outdoor use

**Standard ODP Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>Phase</th>
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<tbody>
<tr>
<td>GT07</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>GT10</td>
<td>1</td>
<td>1</td>
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<tr>
<td>GT15</td>
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<td>GT20</td>
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<tr>
<td>GT30</td>
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</tr>
<tr>
<td>GT073</td>
<td>¾</td>
<td>3</td>
</tr>
<tr>
<td>GT103</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>GT153</td>
<td>1½</td>
<td>3</td>
</tr>
<tr>
<td>GT203</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>GT303</td>
<td>3</td>
<td>3</td>
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</tbody>
</table>

Add on “S” suffix for extended base. See back page.
Single and three phase have same performance.

<table>
<thead>
<tr>
<th>Performance Ratings</th>
<th>PSI Discharge Pressure</th>
<th>Suction Lift in Feet</th>
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<tbody>
<tr>
<td><strong>Model</strong></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>GT07/GT073</td>
<td>20</td>
<td>44</td>
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<tr>
<td></td>
<td>30</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>GT10/GT103</td>
<td>20</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>40</td>
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<td>GT15/GT153</td>
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<td></td>
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<td>45</td>
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<td>GT20/GT203</td>
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<td>86</td>
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<td>105</td>
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Performance ratings are in GPM.
BASE DIMENSIONS AND WEIGHTS

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<th>GT10</th>
<th>GT15</th>
<th>GT20</th>
<th>GT30</th>
<th>GT073</th>
<th>GT103</th>
<th>GT153</th>
<th>GT203</th>
<th>GT303</th>
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<tr>
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<td>¾</td>
<td>1</td>
<td>1½</td>
<td>2</td>
<td>3</td>
<td>¾</td>
<td>1</td>
<td>1½</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Length “L”</td>
<td>19¾₁₆</td>
<td>19¼</td>
<td>21¾₁₆</td>
<td>20⅛₂₈</td>
<td>21⅞₁₂</td>
<td>19</td>
<td>19¾₁₆</td>
<td>20⅛₁₆</td>
<td>21⅞₁₆</td>
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<tr>
<td>Width</td>
<td>8¼</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Height</td>
<td>9¼ (13¼ with “S” Base)</td>
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<tr>
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<td>52</td>
<td>60</td>
<td>65</td>
<td>76</td>
<td>49</td>
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<td>55</td>
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<td>71</td>
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<td></td>
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</tbody>
</table>

(All dimensions are in inches and weights in lbs. Do not use for construction purposes.)

DIMENSIONS

TALL STYLE BASE

STANDARD BASE
for ¾ and 1 hp

STANDARD BASE
for 1½ hp and up
PUMP GUARD® VENTED PROTECTIVE INSULATED/NO HEAT ENCLOSURE

SPECIFICATION:
The enclosure, manufactured to ASSE 1060 specifications, shall be constructed of either if three (3) different materials:
1. Fiberglass: min. 3/16” thick. Thixotropic polyester resin reinforced with fiberglass strand, protected with 18 to 20 mls of UV inhibited isophthalic polyester gel coat
2. Aluminum sheet (.05” thick Or .125” thick)
   Standard thickness of .050” thick only available with insulation
   Optional heavy duty .125 thick available with or without insulation
3. Polyethylene: min 1/8” thick UV stabilized LMDPE low density hexane copolymer resin.

Enclosure shall utilize one of four (4) different designs:
1. Lockable flip top design, for maintenance access through lid without removal of the entire unit.  Fiberglass molded product shall utilize an overlapping lid seam design for weatherproofing and vandal resistance.
2. Aluminum: panel-access doors or folding roof and front design
3. Fiberglass: panel construction with lift up roof and both front and rear access doors (Designer Series).
4. One-piece drop over (special order only).

Insulation shall be min 1” thick (R8) uni-cellular, non-wicking, polisocyanate foam. Drains shall be installed for water evacuation and be designed for one way exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ (where applicable) from within the enclosure with steel anchors and be lockable for security purposes.

Inlet and outlet vents will be installed, sized in accordance with the requirements for the equipment contained therein. Thermostatically controlled exhaust fans are a factory installed option.

The unit shall proved a minimum of 5% sound reduction at eight (8) feet with vents open and 15% reduction with vents closed.

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<th>VALVE GUARD w/ Heat</th>
<th>Old VALVE GUARD w/Heat</th>
<th>Access Type</th>
<th>Inside Width</th>
<th>Inside Length</th>
<th>Inside Height</th>
<th>Shipping Weight</th>
<th>Pad Size</th>
<th>GLASS PAD</th>
<th>Old GLASS PAD</th>
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<td>MF01307302734</td>
<td>MG1000</td>
<td>Flip Top</td>
<td>13</td>
<td>27</td>
<td>23</td>
<td>40#</td>
<td>36 x 22</td>
<td>GG020305005</td>
<td>GP1</td>
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<td>MF02103032054</td>
<td>MG1500</td>
<td>Flip Top</td>
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<td>33</td>
<td>25</td>
<td>60#</td>
<td>46 x 32</td>
<td>GG029042005</td>
<td>GP1.5</td>
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<td>ML035045035</td>
<td>MG3000</td>
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<td>45</td>
<td>35</td>
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<td>GG0460500500</td>
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<td>MG4000F</td>
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<td>44</td>
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<td>GP4000</td>
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<td>ML052061052</td>
<td>MG5000</td>
<td>Flip Top</td>
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<td>52</td>
<td>440#</td>
<td>74 x 64</td>
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<td>MG4000</td>
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<th>PHASE</th>
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<th>QUANTITY</th>
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<tbody>
<tr>
<td>COLOR</td>
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<tr>
<td>VENT(S)</td>
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<td>EXHAUST</td>
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<td>ALARM</td>
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<tr>
<td>OTHER</td>
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</tbody>
</table>

Job Name _________________________________ Contractor _________________________________ Date _________________________________
Job Location ______________________________ Approval _________________________________ Date _________________________________
Engineer _________________________________ Contractor’s P.O. No. _________________________________
Approval _________________________________ Date _________________________________ Representative _________________________________
Advanced Residential Irrigation Control

The ESP-ME3 builds on the station modularity and easy programming of the ESP-Me WiFi ready controller and adds flow sensor compatibility for accessible, reliable system control.

ESP-ME3 Modular Controller

Simple to Use
Reduced dial positions and a back-lit screen make programming at the controller easy to understand and explain.

Powerful Accessories
Smart weather adjustments and flow monitoring available through the LNK™ WiFi module and a wired flow sensor.

Flexible Installation
Indoor or outdoor use and expandable up to 22 stations.
Simplified Dial Programming
- Large text color-coded dial positions make it easier to understand and explain programming.
- Easy-grip dirt-safe dial for use when digging and testing replacement irrigation parts.
- Matched programming to the ESP-TM2 controller for reduced training.

Easy to Read Screen
- Back-lit for easy reading in dark garages or sheds.
- Large 3” size with scrolling words and simple icons for fast recognition.

Built for Professionals
- Industry-leading 3 Year Trade Warranty.
- Weather-resistant locking door and factory-installed power plug for indoor or outdoor installation.
- Configurable to 22 stations with additional 3 or 6 station modules for future irrigation needs.

Controller Accessories
- **Flow Monitoring**
  Compatible with multiple sizes and makes of wired flow sensors for flow monitoring and notifications to save water and protect against property damage.
- **LNK WiFi Ready**
  Irrigation controller mobile access for troubleshooting, custom settings and smart home integrations for voice control.
- **Weather-Based Programming**
  EPA WaterSense certified when used with the LNK WiFi Module and a rain sensor for up to 30% water savings.

rainbird.com
* Registered trademark of Rain Bird Corporation
© 2019 Rain Bird Corporation
D41296 04/19
MODULAR HYBRID CONTROLLER: RAIN BIRD ESP-ME3 INSIDE WALL MOUNT

1-INCHE PVC SCH 40 CONDUIT AND FITTINGS

WIRES TO REMOTE CONTROL VALVES

STANDARD MODULE FOR 4-STATION CONTROLLERS

OPTIONAL MODULES FOR 22-STATION CONTROLLER

STANDARD 120 V PLUG

120 VAC, 60 HZ INTERNAL TRANSFORMER

SELECTING THE MODEL
TO SELECT THE DESIRED MODEL TURN ON ONE OF THE FOLLOWING LAYERS

OPTION-4-STATION
OPTION-7-STATION
OPTION-10-STATION
OPTION-13-STATION
OPTION-16-STATION
OPTION-19-STATION
OPTION-22-STATION

TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCTION-OPTION".
The Rain Bird Wireless Rain Sensor is designed for 24 VAC residential and commercial irrigation systems. This high-quality product saves water and extends irrigation system life by automatically sensing precipitation and interrupting irrigation during rain and low temperature events. Programming logic can suspend irrigation using the "Quick Shut Off" feature or when the amount of rainfall exceeds the rainfall set point. Likewise, the Wireless Rain / Freeze Sensor will suspend irrigation when the system reaches a programmed low temperature set point.

**Features & Benefits**

- Enhanced antenna array provides superior signal reliability that overcomes most line-of-sight obstructions
- Sensor signal strength indicator enables one person set up, reducing installation time
- Convenient adjustment and monitoring of rain or freeze settings at the controller interface
- Simple battery replacement requiring no tools or need to disassemble sensor
- Highly intuitive icon-driven controller interface simplifies programming
- Easy to install, self-leveling sensor bracket mounts to flat surfaces or rain gutters
- Antennas concealed within the units for greater visual appeal and product robustness
- "Quick Shut Off" interrupts active irrigation cycle during a rain event

**Electrical Specifications**

- Application: suitable for use with 24 VAC controllers (with or without pump start / master valve)
- Electrical rating suitable for use with up to six 24VAC 7VA solenoids plus an additional master valve or pump start that does not exceed 53VA
- Controller Interface Wire: 30" (76 cm) length of #22 gauge (0.64 mm) UV resistant extension wire
- UL, cUL, CE, C-Tick, and WEEE certifications
- FCC approved spread spectrum 2 way radio transceivers with FCC Class B approvals
- Signal transmission distance of 700’ Line of Sight
- Battery life: four or more years under normal operating conditions
- 6 KV surge / lighting protection

**Mechanical Properties**

- Adjustable rainfall settings from 1/8” – 1/2” (3 – 13 mm)
- Adjustable low temperature settings from 33°F – 41°F (0.5° – 5°C)
- Three irrigation modes to select: Programmed, Suspend Irrigation for 72 hours, Override sensor for 72 hours
- "Quick Shut Off" suspends active irrigation cycle within approximately two minutes
- High-grade, UV resistant polymer units resist harmful environmental affects

**Dimensions**

WR2 Controller Interface
- Width: 3.1” (7.9 cm)
- Length: 6.8” (17.2 cm)
- Depth: 1.7” (4.3 cm)
- Distance between Mounting Holes: 6.25” (15.9 cm)

WR2 Sensor Assembly
- Sensor Length: 5.8” (14.7 cm)
- Attachment Bracket Length: 4.6” (11.7 cm)
- Distance between Mounting Holes: 4.25” (10.8 cm)
- Horizontal displacement (bracket + fixed ball arm): 5.5” (14.0 cm)

**Replacement or Spare Parts**

- WR2 Battery - #651009S
- WR2 Disk Assembly - #637810S

**How to Specify/Order**

WR2 - RC

Model Description
WR2-RC Rain Combo
WR2-RFC Rain/Freeze Combo
WR2-RS Rain Sensor Only
WR2-RFS Rain/Freeze Sensor Only
WR2-RFI Rain/Freeze Controller Interface Only

**North America (916 MHz)**
- RC: Rain Combo
- RFC: Rain/Freeze Combo
- RS: Rain Sensor Only
- RFS: Rain/Freeze Sensor Only
- RFI: Rain/Freeze Controller Interface Only

**International (868 MHz)**
- RC-868: Rain Combo
- RFC-868: Rain/Freeze Combo
Specifications

The wireless rain or rain / freeze sensor shall employ an electro-mechanical actuating mechanism designed to cause a circuit interrupt if programmable low temperature or rainfall set points are satisfied. Satisfied set points cause the device to temporarily suspend the irrigation controller schedule. As environmental conditions return to a state that no longer satisfy the low temperature or rainfall set points, the controllers normal irrigation schedule is resumed. The sensor shall be wired to normally closed (N.C.) controllers – in series with the valve common, or alternately, wires shall be inserted into the appropriate controller sensor terminal ports.

The device shall be of rugged construction to withstand the elements, including exposure to sunlight and precipitation. Antennas shall be concealed within the sensor and controller interface to improve aesthetics and product robustness.

The device shall be used with 24VAC controllers and shall be of sufficient capacity to be used with a maximum of six 24VAC 7VA solenoids plus an additional master valve or pump start that does not exceed 53VA.

The wireless rain sensor shall incorporate a provision that allows the installer to select from several rainfall or low temperature settings that can be programmed through the use of icons on a controller interface. A sensor LED shall communicate signal strength during the installation process.

The Rain Bird Rain or Rain / Freeze Sensor shall be manufactured by Rain Bird Corporation, Glendora, California.
PGA Series Valves

Versatility at an affordable price.

Whether the job calls for a globe or angle valve, PGA Series valves are the right choice. Loaded with features, these heavy-duty PVC valves are economical, easy to install and built to withstand constant 150 psi (10.35 bar) pressure and 2 to 150 gpm (0.45 to 34.05 m³/h; 7.8 to 568 l/m) flows.

The PGA Series from Rain Bird – built to last… and last!

Features

- Globe and angle configuration for flexibility in design and installation
- PVC and glass reinforced nylon construction
- Filtered pilot flow to resist debris and clogging of solenoid ports
- Slow closing to prevent water hammer and subsequent system damage
- Manual internal bleed operates the valve without allowing water into the valve box
- One-piece solenoid design with captured plunger and spring for easy servicing
- Prevents loss of parts during field service
- Non-rising flow control handle adjusts water flows as needed
- Normally closed, forward flow design

Options (order separately)

- Accommodates optional, field installed PRS-D pressure regulating module
- Optional purple flow control handle for easy identification of non-potable water system
  - PGA-NP-HAN (1" and 1½")
  - PGA-NP-HAN2 (2")
- Accepts latching solenoid for use with Rain Bird battery-operated controllers up to 150 psi (10.35 bar)
- Compatible with ESP-LXD decoders

Operating Range

- Pressure: 15 to 150 psi (1.04 to 10.35 bar)
- Flow: 2 to 150 gpm (0.45 to 34.05 m³/h; 7.8 to 568 l/m)
- Flow with PRS-D: 5 to 150 gpm (1.14 to 34.05 m³/h; 19.2 to 568 l/m)
- Water Temperature: up to 110°F (43°C)
- Ambient Temperature: up to 125°F (52°C)

Electrical Specifications

- Power: 24 VAC 50/60 Hz (cycles/sec) solenoid
- Inrush current: 0.41 A (9.84 VA) at 60 Hz
- Holding current: 0.14A (3.43 VA) at 60 Hz
- Coil resistance: 30-39 Ohms

Models

- 100PGA 1" (26/34)
- 150PGA 1½" (40/49)
- 200PGA 2" (50/60)
- BSP threads available; specify when ordering.

Pressure Loss (psi)

<table>
<thead>
<tr>
<th>Flow (gpm)</th>
<th>Pressure Loss (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5.1</td>
</tr>
<tr>
<td>5</td>
<td>5.5</td>
</tr>
<tr>
<td>10</td>
<td>5.9</td>
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<tr>
<td>20</td>
<td>6.0</td>
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<tr>
<td>30</td>
<td>6.4</td>
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<td>40</td>
<td>7.0</td>
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<td>50</td>
<td>7.5</td>
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<td>100</td>
<td>8.5</td>
</tr>
<tr>
<td>125</td>
<td>9.0</td>
</tr>
<tr>
<td>150</td>
<td>9.5</td>
</tr>
</tbody>
</table>

Pressure Loss (bar)

<table>
<thead>
<tr>
<th>Flow (gpm)</th>
<th>Pressure Loss (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<tr>
<td>5</td>
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<tr>
<td>40</td>
<td>1.2</td>
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<tr>
<td>50</td>
<td>1.3</td>
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<tr>
<td>75</td>
<td>1.6</td>
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<td>100</td>
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<tr>
<td>125</td>
<td>2.5</td>
</tr>
<tr>
<td>150</td>
<td>3.0</td>
</tr>
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</table>

Water Temp. Continuous Pressure

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Pressure (bar)</th>
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</thead>
<tbody>
<tr>
<td>73°F (23°C)</td>
<td>150 psi (10.40 bar)</td>
</tr>
<tr>
<td>80°F (27°C)</td>
<td>132 psi (9.10 bar)</td>
</tr>
<tr>
<td>90°F (32°C)</td>
<td>112 psi (7.70 bar)</td>
</tr>
<tr>
<td>100°F (38°C)</td>
<td>93 psi (6.40 bar)</td>
</tr>
<tr>
<td>110°F (43°C)</td>
<td>75 psi (5.20 bar)</td>
</tr>
</tbody>
</table>

How To Specify

100 - PGA - PRS-D

Models

- 100PGA 1" (26/34)
- 150PGA 1½" (40/49)
- 200PGA 2" (50/60)

Notes

1. Loss values are with flow control fully open.
2. PRS-D module recommended for all flow ranges.

Requirements

1) Rain Bird recommends flow rates in the supply line not to exceed 7.5 ft./sec. (2.29 m/s) in order to reduce the effects of water hammer.
2) For flows below 5 gpm (1.14 m³/h; 19.2 l/m), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm.
3) For flows below 10 gpm (2.27 m³/h; 37.6 l/m) Rain Bird recommends the flow control stem be turned down two full turns from the fully open position.

Technical Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th>Height (in.)</th>
<th>Length (in.)</th>
<th>Width (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100PGA</td>
<td>7 1/4 (18.4 cm)</td>
<td>5 1/2 (14.0 cm)</td>
<td>3 1/4 (8.3 cm)</td>
</tr>
<tr>
<td>150PGA</td>
<td>8 (20.3 cm)</td>
<td>6 1/2 (17.2 cm)</td>
<td>3 1/2 (8.9 cm)</td>
</tr>
<tr>
<td>200PGA</td>
<td>10 (25.4 cm)</td>
<td>7 3/4 (19.7 cm)</td>
<td>5 (12.7 cm)</td>
</tr>
</tbody>
</table>

Note: The PRS-D option adds 2" (5.1 cm) to valve height.
Specifications

The electric remote control valve shall be a normally closed 24 VAC 50/60 Hz (cycles/sec) solenoid actuated globe/angle pattern design. The valve pressure rating shall not be less than 150 psi (10.35 bar). The valve shall have the following characteristics (circle one):

Flow rate:  ________ gpm  m³/h  l/m
Pressure loss not to exceed:  ______ psi  bar

The valve body and bonnet shall be constructed of high-impact, water-resistant PVC for the body and glass-filled nylon for the bonnet with stainless steel screws.

The valve shall have manual open/close control (internal bleed) for manual opening and closing of valve without electrically energizing the solenoid. The valve's internal bleed shall prevent flooding of the valve box.

The valve shall house a fully-encapsulated, one-piece solenoid. The solenoid shall have a captured plunger with a removable retainer for easy servicing, and a leverage handle for easy turnover. This 24 VAC 50/60 Hz solenoid shall open with 19.6 VAC minimum at 150 psi (10.35 bar). At 24 VAC, average inrush current shall not exceed 0.41 amps. Average holding current shall not exceed 0.28 amps.

The valve shall have a flow control stem for accurate manual regulation and/or shut off of outlet flow. The valve must open or close in less than 1 minute at 150 psi (10.35 bar), and less than 30 seconds at 20 psi (1.38 bar).

The valve construction shall provide for all internal parts to be removable from the top of the valve without disturbing the valve installation. The body shall have a removable O-ringed plug for installation in either globe or angle configuration.

Optional Feature Specification

PRS-D Pressure Regulating Module
100PGA-PRS-D, 150PGA-PRS-D, 200PGA-PRS-D

When so indicated on the design, the electric remote control valve shall have a pressure regulating module (PRS-D) capable of regulating outlet pressure between 15 and 100 psi (±3 psi) (1.04 and 6.90 bar (±0.21 bar)).

The PRS-D module shall have an adjusting knob for setting pressure and Schrader valve connection for monitoring pressure. The pressure shall be adjustable from the PRS-D when the valve is internally manually bled or electrically activated.

Non-Potable Flow Control Handle
PGA-NP-HAN1 - Fits 1” and 1½”
PGA-NP-HAN2 - Fits 2”

When so indicated on the design, the valve shall have a purple flow control handle to indicate to the user that non-potable water is being used. There shall be no difference between the black and purple handles except for the color.
KEY BENEFITS

- Industry's strongest spray body for years of reliable performance
- Pressure-regulated to 30 PSI for optimal nozzle performance
- Brown cap for easy field identification
- Co-molded wiper seal made from chemical- and chlorine-resistant materials
- Innovative seal design prevents cap-to-body leaks, even with a loose cap
- FloGuard technology option eliminates water waste in the event of a missing nozzle

ADDITIONAL FEATURES

- Directional flush plug design for cleaner installation
- Interchangeable components for easier servicing, retrofits, and upgrades
- Heavy-duty spring for consistent riser retraction
- Check valve option eliminates low-head drainage
- Compatible with all female-threaded nozzles

OPERATING SPECIFICATIONS

- Operational pressure range: 15 to 100 PSI
- Warranty period: 5 years

FACTORY-INSTALLED OPTIONS

- Check valve available for 4", 6", and 12" models (up to 14' of elevation)
- Reclaimed water identification
- FloGuard technology available for check valve models

USER-INSTALLED OPTIONS

- Check valve (up to 14' of elevation; P/N 437400SP)
- Reclaimed water ID cap (P/N 458560SP)
- Snap-on reclaimed cover (P/N PROS-RC-CAP-SP)
- Shutoff cap (P/N 213600SP)
- Shutoff nozzle (P/N 916400SP)

PRS30 Reclaimed

PRS30 models include optional factory-installed purple reclaimed caps

PRS30 - SPECIFICATION BUILDER: ORDER 1 + 2 + 3

1 Model | 2 Feature Options | 3 Specialty Options
---|---|---
PROS-00-PRS30 | CV = Factory-installed drain check valve (Pop-up models only) | (blank) = No option
PROS-04-PRS30 | CV | (blank) = No option
PROS-06-PRS30 | CV | R = Factory-installed reclaimed body cap
PROS-12-PRS30 | CV | F = FloGuard technology

PRS30 (SIDE INLET) MODELS

Model | Description
---|---
PROS-06-SI-PRS30 | 30 PSI regulated 6" pop-up with side inlet
PROS-12-SI-PRS30 | 30 PSI regulated 12" pop-up with side inlet

Examples:

PROS-06-SI-PRS30-CV = 6" pop-up with side inlet regulated at 30 PSI, drain check valve
PROS-12-PRS30-CV-F-R = 12" pop-up regulated at 30 PSI, drain check valve, and FloGuard technology with reclaimed body cap

Compatible with:

- **Pro Adjustable Nozzles**
  - Page 63
- **Pro-Spray Fixed Arc Nozzles**
  - Page 66

Visit hunterindustries.com
**PRS40**

To optimize MP Rotator performance, the Pro-Spray PRS40 is pressure-regulated to 40 PSI.

**KEY BENEFITS**
- Industry’s strongest spray body for years of reliable performance
- Pressure-regulated to 40 PSI for the MP Rotator
- Gray cap for easy field identification
- Co-molded wiper seal made from chemical- and chlorine-resistant materials
- Innovative seal design prevents cap-to-body leaks, even with a loose cap
- FloGuard technology option eliminates water waste in the event of a missing nozzle

**ADDITIONAL FEATURES**
- Directional flush plug design for cleaner installation
- Interchangeable components for easier servicing, retrofits, and upgrades
- Heavy-duty spring for consistent riser retraction
- Check valve option eliminates low-head drainage

**OPERATING SPECIFICATIONS**
- Operational pressure range: 15 to 100 PSI
- Warranty period: 5 years

**FACTORY-INSTALLED OPTIONS**
- Check valve available for 4", 6", and 12" models (up to 14' of elevation)
- Reclaimed water identification
- FloGuard technology available for pop-up models

**USER-INSTALLED OPTIONS**
- Check valve (up to 14' of elevation; P/N 437400SP)
- Reclaimed water ID cap (P/N 458562SP)
- Snap-on reclaimed cover (P/N PROS-RC-CAP-SP)
- Shutoff cap (P/N 213600SP)
- Shutoff nozzle (P/N 916400SP)

**PRO-SPRAY PRS40 - SPECIFICATION BUILDER: ORDER 1 + 2 + 3**

<table>
<thead>
<tr>
<th>1 Model</th>
<th>2 Feature Options</th>
<th>3 Specialty Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROS-00-PRS40</td>
<td>= 40 PSI regulated shrub adapter</td>
<td>(blank) = No option</td>
</tr>
<tr>
<td>PROS-04-PRS40</td>
<td>= 40 PSI regulated 4&quot; pop-up</td>
<td>CV = Factory-installed drain check valve</td>
</tr>
<tr>
<td>PROS-06-PRS40</td>
<td>= 40 PSI regulated 6&quot; pop-up</td>
<td>(Pop-up models only)</td>
</tr>
<tr>
<td>PROS-12-PRS40</td>
<td>= 40 PSI regulated 12&quot; pop-up</td>
<td></td>
</tr>
</tbody>
</table>

**PRO-SPRAY PRS40 (SIDE INLET) MODELS**

**Model**
- PROS-06-SI-PRS40 = 40 PSI regulated 6" pop-up with side inlet
- PROS-12-SI-PRS40 = 40 PSI regulated 12" pop-up with side inlet

**Examples:**
- PROS-06-SI-PRS40 = 6" pop-up with side inlet regulated at 40 PSI
- PROS-06-PRS40-CV = 6" pop-up regulated at 40 PSI, drain check valve
- PROS-12-PRS40-CV-F-R = 12" pop-up regulated at 40 PSI, drain check valve, and FloGuard technology with reclaimed body cap

**Compatible with:**

**MP Rotator**
BUBBLERS

Ensure consistent flow regardless of pressure with above-ground, pressure-compensating bubblers.

KEY BENEFITS

• Pressure-compensating for constant water flow at any pressure
• Designed for deep watering of planted areas
• ½” threaded inlet for easy installation on a ½” riser
• Warranty period: 2 years

PCB PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow GPM</th>
<th>Pattern Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>0.25</td>
<td>Trickle</td>
</tr>
<tr>
<td>50</td>
<td>0.50</td>
<td>Trickle</td>
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<tr>
<td>10</td>
<td>1.00</td>
<td>Umbrella</td>
</tr>
<tr>
<td>20</td>
<td>2.00</td>
<td>Umbrella</td>
</tr>
</tbody>
</table>

Notes:
Typical spacing 2’ to 4’. Flows shown for pressures between 15 and 70 PSI.

AFB PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow GPM</th>
<th>Pattern Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFB</td>
<td>&lt; 2.0</td>
<td>Trickle/ Umbrella</td>
</tr>
</tbody>
</table>

Notes:
Typical spacing 2’ to 4’. Flows shown for pressures between 15 and 70 PSI.
Xeri-Bug Emitter Specifications and Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Type/Color</th>
<th>Nominal Flow gph</th>
<th>Filtration Required mesh</th>
</tr>
</thead>
<tbody>
<tr>
<td>XB-05PC</td>
<td>Barb/Blue</td>
<td>0.5</td>
<td>200</td>
</tr>
<tr>
<td>XB-10PC</td>
<td>Barb/Black</td>
<td>1.0</td>
<td>150</td>
</tr>
<tr>
<td>XB-20PC</td>
<td>Barb/Red</td>
<td>2.0</td>
<td>150</td>
</tr>
<tr>
<td>XB-05PC1032</td>
<td>10-32T/Blue</td>
<td>0.5</td>
<td>200</td>
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<tr>
<td>XB-10PC1032</td>
<td>10-32T/Black</td>
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</tr>
<tr>
<td>XB-20PC1032</td>
<td>10-32T/Red</td>
<td>2.0</td>
<td>150</td>
</tr>
<tr>
<td>XBT-10PC</td>
<td>1/2&quot; FPT/Black</td>
<td>1.0</td>
<td>150</td>
</tr>
<tr>
<td>XBT-20PC</td>
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<td>2.0</td>
<td>150</td>
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</table>

Xeri-Bug Emitter Performance

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Type/Color</th>
<th>Nominal Flow l/h</th>
<th>Filtration Required micron</th>
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</thead>
<tbody>
<tr>
<td>XB-05PC</td>
<td>Barb/Blue</td>
<td>1.89</td>
<td>75</td>
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<tr>
<td>XB-10PC</td>
<td>Barb/Black</td>
<td>3.79</td>
<td>100</td>
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<tr>
<td>XB-20PC</td>
<td>Barb/Red</td>
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<td>100</td>
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<td>10-32T/Blue</td>
<td>1.89</td>
<td>75</td>
</tr>
<tr>
<td>XB-10PC1032</td>
<td>10-32T/Black</td>
<td>3.79</td>
<td>100</td>
</tr>
<tr>
<td>XB-20PC1032</td>
<td>10-32T/Red</td>
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<td>100</td>
</tr>
<tr>
<td>XBT-10PC</td>
<td>1/2&quot; FPT/Black</td>
<td>3.79</td>
<td>100</td>
</tr>
<tr>
<td>XBT-20PC</td>
<td>1/2&quot; FPT/Black</td>
<td>7.57</td>
<td>100</td>
</tr>
</tbody>
</table>

Installation Option 1*
Using a Xeriman Tool, insert an emitter directly into ⅜" or ½" drip tubing or between dripline emitters as needed.

Installation Option 2*
For more precise water placement, use ⅜" distribution tubing, a ⅜" tubing stake, and a bug cap.

Installation Option 3
For precise water placement, a barbed connector can be punched into distribution tubing. The emitter is then placed at the end of the ⅜" distribution tubing. NOTE: should the emitter become dislodged, unregulated flow will occur.

Installation Option 4*
The Xeri-Bird 8 provides a centralized location for up to eight emitters. A mix of Xeri-Bug and/ or PC emitters can be used to provide the flow rates needed for different plant materials. Tentacles of ⅜" distribution tubing, ⅜" tubing stakes, and bug caps allow for precise water placement. 

Installation Option 5
The 6 Outlet Manifold provides a centralized water distribution connection for up to six emission devices. Connect the ⅜" distribution tubing to one of the outlets. Use a ⅜" tubing stake to ensure precise water placement. The emitter is placed on the end of the ⅛" distribution tubing to regulate the water flow. NOTE: should the emitter become dislodged, unregulated flow will occur.

* Preferred installation options, which provide flow regulation at the source.
To: Edmund V. Most  
From: Mike Risteski  
Date: 10/28/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 157  
Contract: Construction  

Description of work to be performed:  
Waterproofing & Brick Stucco  
This change is associated with the materials and labor of waterproofing all expansion joints on the building  
The drawings call for a continuous air barrier to be installed on the building, however the details were not very clear  
The building envelope consultant recommended that all 63 expansion joints would need to be sealed.  

A - Customer Requested Change  
B - Code/Regulatory Agency Required Change  
C - Errors and Omissions  
D - Replacing Unsuitable Soils  
E - Soils Related Change Other  
F - Unforeseen Conditions  
G - Time Related Change  
H - Liquidated Damages  
I - Value Engineering Change  
J - Exercising Pre-Priced Option (Allowance)  
K - Accounting Error  

(Indicate Reason for Change Proposal)  

Justification:  
C - Errors and Omissions  

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed):  
$43,104.00  
Owner Contingency Allow. Bal.  

Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Approved:  

(No) (Yes)  
(Circle One)  

Rick Holt, Cumming Corp.  

(No) (Yes)  
(Circle One)  

Robert Faust, Cumming Corp.  

(No) (Yes)  
(Circle One)  

Edmund V. Most, City of Charleston  

(No) (Yes)  
(Circle One)  

Bernard Costantino, Moody Nolan  

Decision needed by:  
October 28, 2021  

(No) (Yes)  
(Circle One)  

Mike Risteski, Cumming Corp.  

(No) (Yes)  
(Circle One)  

(No) (Yes)  
(Circle One)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

To add waterproofing around the tube and to add sheathing back to change brick to stucco detail under the building.

**Work Description:**

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced 8/or is Ongoing
- [ ] Work Authorization is Requested By:

**Submitted By:**

[Signature]

Walter Lewis  
Project Engineer  
Dated / /  

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Reviewed By:**

Program Manager: **CUMMING**

/ /  
Dated

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**

Owner: **City of Charleston**

/ /  
Dated

**Amount Approved**
# International African American Muesum
## General Summary of the Estimate

**COR No.: 157**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
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</tr>
<tr>
<td>A4</td>
<td></td>
<td>SUBTOTAL TRADE DIRECTS</td>
</tr>
<tr>
<td>A5</td>
<td></td>
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</tr>
<tr>
<td>A6</td>
<td></td>
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<tr>
<td>A7</td>
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<tr>
<td>A8</td>
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<td>CCIP @ 2.50% =</td>
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<tr>
<td>A9</td>
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<td>Subguard @ 0.012 =</td>
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<tr>
<td>A14</td>
<td></td>
<td>Builders Risk @ 0.84% =</td>
</tr>
<tr>
<td>A11</td>
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<td>Performance and Payment Bond @ 0.00732 =</td>
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<tr>
<td>A14</td>
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<td>Procore @ 0.04500% =</td>
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<tr>
<td>A15</td>
<td></td>
<td>Overhead and Profit @ 3.25% =</td>
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<tr>
<td>A16</td>
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<td>A17</td>
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**SUBTOTAL**

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<th>Value</th>
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<tr>
<td></td>
<td>CCIP</td>
<td>2.50%</td>
<td>$0.00</td>
</tr>
<tr>
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<td>Subguard</td>
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<tr>
<td></td>
<td>Builders Risk</td>
<td>0.84%</td>
<td>$0.00</td>
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<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>0.00732</td>
<td>$0.00</td>
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<tr>
<td></td>
<td>Procore</td>
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<tr>
<td></td>
<td>Overhead and Profit</td>
<td>3.25%</td>
<td>$0.00</td>
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**ESTIMATE TOTAL**

$0
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<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td><strong>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</strong></td>
<td>$0</td>
<td></td>
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<tr>
<td><strong>TRADE DIRECTS</strong></td>
<td>$0</td>
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**DESCRIPTION**

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<tr>
<th>Additional Scope of Work</th>
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<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>To add waterproofing</td>
<td>$25,670.00</td>
<td>1 LS</td>
<td></td>
<td>$25,670.00</td>
<td></td>
</tr>
<tr>
<td>Framing and Sheathing Changes</td>
<td>$9,669.00</td>
<td>1 LS</td>
<td></td>
<td>$9,669.00</td>
<td></td>
</tr>
<tr>
<td>Amount to be released from Moisture Barrier Allowance</td>
<td>$(43,104.00)</td>
<td>1 LS</td>
<td></td>
<td>$(43,104.00)</td>
<td></td>
</tr>
<tr>
<td>Additional Caulking at Brick</td>
<td>$7,765.00</td>
<td>1 LS</td>
<td></td>
<td>$7,765.00</td>
<td></td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL**: $0
General note: Confirm stud track does not bridge any expansion joints

General note: Rough steel to be ground down for smooth adhesion

Added silicone sheet with belly at expansion between tube steel for expansion (sides and bottom, continuous, meeting emseal above on both sides)

Expansion Joint View from Outside Building Looking at Elevation
Expansion Joint View from Under Building Looking Out (Spray Insulation not shown for clarity - see next page)

- Added sheathing for air barrier to wrap onto and continuous spray foam adhesion.
- Added emseal expansion joint material from tube steel up above steel line to meet sprayfoam.
- Added silicone sheet with belly at expansion between tube steel for expansion (sides and bottom, continuous, meeting emseal above on both sides).
- Added blueskin for air barrier to wrap from sheathing into expansion joint.
- Added sheathing for air barrier to wrap onto and continuous spray foam adhesion.
Expansion Joint View from Under Building Looking Out (Spray Insulation Coverage)

Spray foam throughout, meeting underside of brick ledge and either side of expansion joint, but not covering expansion joint.
To: Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
Contact: Walt Lewis  

Project: International African American Museum  
14 Wharfside Street  
Charleston, SC  

Description: RFI #602 modify stucco ceiling sheathing to 1/4" from brick around the entire building  

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
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<tbody>
<tr>
<td>Cementitious Backer Board-DW</td>
<td>129.00</td>
<td>45.00</td>
<td>$5,805.00</td>
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<table>
<thead>
<tr>
<th>Material</th>
<th>Size</th>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot; TYPE X GLASS MAT GYPSUM SHEATHING</td>
<td>10'</td>
<td>43.00</td>
<td>SHT</td>
<td>.89 SQFT</td>
<td>$1,530.80</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-45' REACH FORKLIFT-9,000LB - JLG 534D9-45 - Gradall G9-43A</td>
<td>0.50</td>
<td>EA</td>
<td>2,908.00</td>
<td>$1,454.00</td>
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</table>

Subtotal for Detail $8,789.80  

<table>
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<tr>
<th>Miscellaneous</th>
<th>Total</th>
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<tbody>
<tr>
<td>Rounding</td>
<td>$0.20</td>
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Total Miscellaneous Charges $0.20  

Labor Total: $5,805.00  
Material Total: $1,530.80  
Equipment Total: $1,454.00  

Sub Total: $8,790.00  
Mark Up: $879.00 10.00%  

Total: $9,669.00
**CHANGE PROPOSAL FORM**

<table>
<thead>
<tr>
<th>Project: IAAM</th>
<th>Proposal #: 2</th>
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<tr>
<td>Contract:</td>
<td>Project #:</td>
</tr>
<tr>
<td>Contractor:</td>
<td>Contractor #:</td>
</tr>
<tr>
<td>Turner</td>
<td>Waterproofing</td>
</tr>
<tr>
<td></td>
<td>Specialties, Inc.</td>
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**Description of change:**
provide and install 2" vertical emseal joint at green location per email attached. Provide and install single ribbed silicone sheet at pink area per attached email. Provide and install air barrier and accessories to areas in purple. See attached email.

<table>
<thead>
<tr>
<th>Materials</th>
<th>(Attach list with Qty, Item $, Unit mh, Total mh, OT mh, Total $)</th>
<th>SUBTOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Total Direct Cost of Materials</td>
<td>$10,371.24</td>
<td></td>
</tr>
</tbody>
</table>
| 2 Overhead & Profit on Item 1.  
(15% Maximum)         | $1,555.69   |
| 3 Sales Tax                                              | $770.98    |
| 4 Shipping & Transportation                              | $2,858.00  |

**Labor**

<table>
<thead>
<tr>
<th>5 Total Manhours:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreman 60 MH @ $38.00/hr.</td>
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<tr>
<td>110 MH @ $31.00/hr.</td>
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<tr>
<td>6 Overhead &amp; Profit on Item 5.  15%</td>
</tr>
<tr>
<td>7 Payroll Taxes &amp; Insurance 38.0%</td>
</tr>
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</table>

**Equipment Rental**

| 8 Equipment Rental | $1,225.00 |
| 9 Overhead & Profit on Item 8.  (15% Maximum) | $183.75 |

**Subcontractors** (Include quotes with material & equipment backup)

| 10 Subcontractors | $0.00 |
| 11 Overhead & Profit on Item 10.  (10% Maximum) | $0.00 |

| Subtotal of Proposal | $25,670.36 |

**TOTAL OF CHANGE PROPOSAL**

$25,670.36

The Contractor agrees to perform the work outlined in this change proposal for the amount specified above and in accordance with the Contract documents if the work is authorized by the Owner.

**Contractor's Signature:** _______________Justin Dietz_____________  **Date:** 10/22/2020
<table>
<thead>
<tr>
<th>Qty</th>
<th>Unit</th>
<th>Description</th>
<th>Unit Price</th>
<th>Subtotal</th>
<th>Tax</th>
<th>Mat'l. Total</th>
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<tbody>
<tr>
<td>2</td>
<td>5gal</td>
<td>17mr air barrier</td>
<td>206.01</td>
<td>412.02</td>
<td>28.84</td>
<td>440.86</td>
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<tr>
<td>3</td>
<td>rolls</td>
<td>blueskin SA</td>
<td>55.91</td>
<td>167.73</td>
<td>11.74</td>
<td>179.47</td>
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<tr>
<td>3</td>
<td>rolls</td>
<td>air barrier accessories</td>
<td>178.61</td>
<td>535.83</td>
<td>37.51</td>
<td>573.34</td>
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<tr>
<td>4</td>
<td>50ft rolls</td>
<td>ribbed silicon sheets</td>
<td>531.28</td>
<td>2125.12</td>
<td>148.76</td>
<td>2273.88</td>
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<tr>
<td>65</td>
<td>20oz saus sheet accessories</td>
<td>13.97</td>
<td>908.05</td>
<td>63.56</td>
<td>971.61</td>
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<tr>
<td>14</td>
<td>sticks</td>
<td>expansion joints 2&quot;</td>
<td>354</td>
<td>4956</td>
<td>346.92</td>
<td>5302.92</td>
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<tr>
<td>3</td>
<td>1gal</td>
<td>accessories</td>
<td>196</td>
<td>588</td>
<td>41.16</td>
<td>629.16</td>
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9,692.75  678.49  **10,371.24**
<table>
<thead>
<tr>
<th>SERVICES</th>
<th>PRICE</th>
<th>AMOUNT</th>
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<tbody>
<tr>
<td>Bulletin 16.3</td>
<td>$9,048.00</td>
<td>$9,048.00</td>
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<tr>
<td>We propose to furnish labor and materials for the additional GWB walls in rooms G206 and G207 per plans and specs in bulletin 16.3</td>
<td></td>
<td></td>
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<tr>
<td>Bulletin 24</td>
<td>$3,600.00</td>
<td>$3,600.00</td>
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<tr>
<td>We propose to furnish labor and materials for the additional steel spindles at atrium per plans and specs on bulletin 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RFI 573</td>
<td>$350.00</td>
<td>$350.00</td>
</tr>
<tr>
<td>We propose to paint (1) 4’W, 2’H, 3.5’D framed, sheathed, painted black (Promar 200) enclosure in the adjacent corridor to G201 that lines up with the ceiling of G201.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stucco at Brick</td>
<td>$7,765.00</td>
<td>$7,765.00</td>
</tr>
<tr>
<td>We propose to cut 1/4&quot; ceiling at brick then install backer rod and caulking to replace the use of the Z molding reveals per architects approval.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4&quot; joints CREDIT</td>
<td>($13,590.45)</td>
<td>($13,590.45)</td>
</tr>
<tr>
<td>Credit for 1/4&quot; joints</td>
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<td></td>
</tr>
<tr>
<td>Additional Z Molding</td>
<td>$7,712.00</td>
<td>$7,712.00</td>
</tr>
<tr>
<td>We propose to furnish and materials for the additional Z molding around the light fixtures on ground level ceiling per revised drawings dated 01/19/2021</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total:** $14,884.55

**Grand Total (USD):** $14,884.55

If you have any questions about this invoice, please contact Maryam, 843-276-2117, rahmanspainting_repairs@hotmail.com
To: Edmund V. Most
From: Mike Risteski
Date: 1/13/2022
Project No.: CP 1425
Proposal No.: Change Order Request No. 160
Contractor: Turner Construction Company

Description of work to be performed: Feeds for the Dock Substations
A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $26,377.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: January 10, 2022

Approved: Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Per Revised Shop Drawings, wire size has to increase.

**Reason:**
- [X] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing

**Submitted By:**
Walter Lewis  Project Engineer  09/03/2021

**Amount Requested:**
$26,377

**Contractor:** **TURNER BROWNSTONE**

**Requested Action:**
- [X] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Reviewed By:**
Program Manager: **CUMMING**

**Approved By:**
Owner: **City of Charleston**
<table>
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<tr>
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<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td></td>
<td>CONDITIONS (GC'S)</td>
<td>$0</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<tr>
<td></td>
<td>CONDITIONS (GC'S)</td>
<td>$0</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$24,357.00</td>
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<tr>
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<td>SUBTOTAL TRADE DIRECTS</td>
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<td>$24,357</td>
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<tbody>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.50% = $608.93</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012 = $292.28</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84% = $204.60</td>
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<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732 = $178.29</td>
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<td>A11</td>
<td>Procore</td>
<td>@ 0.04500% = $10.96</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit (Taken of Direct</td>
<td>@ 3.25% = $724.64</td>
</tr>
<tr>
<td></td>
<td>work cost)</td>
<td></td>
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ESTIMATE TOTAL $26,377
**GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’s)**

<table>
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**TRADE DIRECTS**

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<td>1 LS</td>
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<td>Wire Change</td>
<td>$-</td>
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**DIRECT WORK SUBTOTAL**

<p>| | |</p>
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<td>DIRECT WORK SUBTOTAL</td>
<td>$24,357</td>
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PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

PCO #  56
Date:  9/3/2021
Project Name:  IAAM Museum
Project Number:  21071
Page Number:  1

Work Description
SCOPE OF WORK:

Scope-Pull 500 KCMIL XHHW conductors from Utility transformer to Unit Substations A and B. Original scope was to install #3/0 awg conductors.

Existing 3" PVC ductbank will be reused, (3) 500 KCMIL conductors per conduit run.

Time is of the essence with this order. Depending on order release lead times may vary.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.

This price is good for acceptance within 10 days from the date of receipt.

We request a time extension of 2 days.

We will supply and install all materials, labor, and equipment as per your instructions on <CCN_56>.

Itemized Breakdown

<table>
<thead>
<tr>
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<th>Total Hrs.</th>
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<td>-1,000</td>
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<tr>
<td>#500 XHHW BLACK</td>
<td>1,500</td>
<td>19,185.00</td>
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<tr>
<td>COMPRESSION SPLICE - CU - #500 CU WIRE</td>
<td>6</td>
<td>297.75</td>
<td>2.88</td>
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<tr>
<td>4000LB POWER CABLE PULLER</td>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>JET LINE</td>
<td>1,500</td>
<td>97.50</td>
<td>0.00</td>
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<tr>
<td>PULLING ROPE (3/4&quot;)</td>
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<td>KELLEM WIRE GRIP</td>
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<td>WIRE CUTS</td>
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Summary

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ORIGINAL
### PROPOSED CHANGE ORDER

<table>
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<tr>
<th>Item Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Unit Cost</th>
<th>Markup@5.000 %</th>
<th>Subtotal</th>
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</thead>
<tbody>
<tr>
<td>VDC</td>
<td>50.10</td>
<td>0.00</td>
<td>$4.24</td>
<td>0.000%</td>
<td>212.42</td>
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<td>VEHICLES</td>
<td>50.10</td>
<td>0.00</td>
<td>$3.53</td>
<td>0.000%</td>
<td>176.85</td>
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<tr>
<td>WIRE PULLER</td>
<td>1.00</td>
<td>1.00</td>
<td>$75.00</td>
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<td>75.00</td>
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</table>

**Subtotal** 21,180.40

**Overhead** (@ 10.000 %) 2,118.04

**Markup** (@ 5.000 %) 1,059.02

**Subtotal** 24,357.06

**Final Amount** $25,235.06

### CONTRACTOR CERTIFICATION

**Name:**

**Date:**

**Signature:**

I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

**PCO #** 56

**Final Amount:** $25,235.06

**Name:**

**Date:**

**Signature:**

I hereby accept this quotation and authorize the contractor to complete the above described work.
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 10/1/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 161  
Contract: Construction

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>Breaker and Feeds for Generator Test Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>This change is associated with the materials and labor of connecting the generator test bank permanently to the emergency generator panel. The design documents had missed the breaker and connection from the panel to the test bank. The 400A breaker is given as a credit from TB in this COR at a value of 4,000.00</td>
<td></td>
</tr>
</tbody>
</table>

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $7,294.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  
Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:  

Approved by:  
(Rick Holt, Cumming Corp.)

(YES)  
(Right Circle)

Decision needed by: October 1, 2021  
(NO) (YES)  
(Circle One)

(YES)  
(Right Circle)

Mike Risteski, Cumming Corp.

(YES)  
(Right Circle)

Robert Faust, Cumming Corp.

(YES)  
(Right Circle)

Edmund V. Most, City of Charleston

(YES)  
(Right Circle)

Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Supply and Install 400 Amp Breaker for Generator Load Bank that is not shown on the contract drawings.

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [X] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Possible Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has commenced 8/or is Ongoing

**Submitted By:**
Walker Lewis  Project Engineer  09/08/2021  $ 7,294  Amount Requested

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Reviewed By:**
Program Manager: **CUMMING**
/ /  Dated

**Authorized Action:**
- [ ]Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**
Owner: **City of Charleston**
/ /  $ 7,294  Amount Approved
## International African American Museum
### General Summary of the Estimate

**COR No.: 161**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
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<tr>
<td>A5</td>
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<td>A6</td>
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<tr>
<td>A7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.50%</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>@ 0.04500%</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit (Taken of of Direct work cost)</td>
<td>@ 3.25%</td>
</tr>
</tbody>
</table>

**SUBTOTAL** | **$6,736**

**ESTIMATE TOTAL** | **$7,294**
## General Requirements (GR’s) & General Conditions (GC’s)

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Unit</th>
<th>Units</th>
<th>Subtotal</th>
<th>Total</th>
<th>Comments</th>
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<tbody>
<tr>
<td>General Requirements (GR's) &amp; General Conditions (GC's)</td>
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<td></td>
<td></td>
<td></td>
<td>$0</td>
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</tr>
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</table>

## Trade Directs

### Description

Additional Scope of Work

1. Supply New Breaker 400 Amp - Turner Logistic - No Cost Turner Logistics to cover cost. Approx cost of Break 4,000.00

   - Rate: $ -
   - Unit: LS
   - Units: 1
   - Subtotal: $ -

2. To Install new breaker and Feeders to support the breaker for the Load Bank

   - Rate: $ -
   - Unit: LS
   - Units: 1
   - Subtotal: $ 6,735.57

**Direct Work Subtotal**: $6,736
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:
Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

SCOPE OF WORK:
-Generator Load Center Feed

Includes:
Field installation of new 400 amp breaker.
Install 400 amp conduit and feeder wire-500 KCMIL in 3" EMT conduit.
Freight.
Overtime.

Exclusions:
Furnishing 400 amp breaker. Furnished by others.
Breaker warranty and commissioning.

Clarifications:
Mounting of load center is by others.
Generator load center no shown on contract drawings.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 5 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_57>.

Itemized Breakdown

<table>
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<th>Qty</th>
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<th>Total Hrs.</th>
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<tbody>
<tr>
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<tr>
<td>3&quot; ELBOW 90 DEG - EMT</td>
<td>2</td>
<td>195.56</td>
<td>1.74</td>
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<td>3&quot; CONN COMP STL - EMT</td>
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<td>207.90</td>
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<tr>
<td>3&quot; COUPLING COMP STL - EMT</td>
<td>5</td>
<td>624.33</td>
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<tr>
<td>3&quot; BUSHING - PLASTIC</td>
<td>2</td>
<td>7.54</td>
<td>0.50</td>
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<tr>
<td>3&quot; SPRING STL CONDUIT CLAMP W/ BOLT</td>
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<td>7.17</td>
<td>0.30</td>
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<td>#500 THHN BLACK</td>
<td>99</td>
<td>2,522.09</td>
<td>5.45</td>
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<tr>
<td>1/4-20x 1/2 HEX HEAD BOLT - PLTD STL</td>
<td>3</td>
<td>0.21</td>
<td>0.21</td>
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<td>1/4-20 HEX NUT - PLTD STL</td>
<td>3</td>
<td>0.12</td>
<td>0.09</td>
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<td>BEAM CLAMP TO 5/8&quot; FLNG W/ 1/4-20 THRD HOLE</td>
<td>3</td>
<td>12.29</td>
<td>1.50</td>
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<tr>
<td>400A 3P BREAKER MOLDED CASE - OPEN</td>
<td>1</td>
<td>0.00</td>
<td>1.45</td>
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<tr>
<td>#500 WIRE POWER TERM</td>
<td>8</td>
<td>0.00</td>
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ORIGINAL
## PROPOSED CHANGE ORDER

**PCO #** 57  
**Page Number:** 2

### Description

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### Summary

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<td>FOREMAN (3.49 Hrs @ $50.00)</td>
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<td>OVERTIME ADJUSTMENT (5.00 Hrs @ $67.50)</td>
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<td>134.75</td>
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<td>VEHICLES (31.78 @ 0.00 @ $3.53 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>Overhead (@ 10.000 %)</td>
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<td>Markup (@ 5.000 %)</td>
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<td>-7,338.57</td>
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**Final Amount:** $7,338.57

### CONTRACTOR CERTIFICATION

**Name:**  
**Date:**  
**Signature:**  
I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

**PCO #** 57  
**Final Amount:** $7,338.57

**Name:**  
**Date:**  
**Signature:**  
I hereby accept this quotation and authorize the contractor to complete the above described work.

**ORIGINAL**
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 1/13/2022  
Project: CP 1425 International African American Museum  
Contract: Turner Construction Company  
Proposal No.: Change Order Request No. 162  
Contract No.: CP 1425

Description of work to be performed: Irrigation Tap - Connection Fees
This change is associated with the materials and labor for the irrigation supply tap to the CWS system.
The original design and fees paid were for a 3/4" tap. The landscaping company who designed the irrigation system determined that a 2" tap would be needed to satisfy the demands of the irrigation system. The proposed change order includes the credit fee paid for the original tap.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $33,437.00  
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved: Rick Holt, Cumming Corp.

Decision needed by: January 10, 2022

(No) (Yes) (Circle One)  
(No) (Yes) (Circle One)  
(No) (Yes) (Circle One)  
(No) (Yes) (Circle One)

Mike Risteski, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
To Supply and Install Materials and Labor to complete a new Water Tap for the Irrigation system not shown on the drawings.

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [X] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] TBD

**Amount Requested:** $33,437

**Submitted By:**
[Signature]
Walter Lewis
Project Engineer
09/09/21

**Contractor:** TURNER BROWNSTONE

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Reviewed By:**

**Program Manager:** CUMMING

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**

**Owner:** City of Charleston

<table>
<thead>
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<th>/</th>
<th>/</th>
</tr>
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</table>

**Amount Approved:** $33,437
### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
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</table>

**SUBTOTAL TRADE DIRECTS** | $31,014

---

<table>
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<td>Procore</td>
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<td>Overhead and Profit (Taken of of Direct work cost)</td>
<td>3.25%</td>
<td>$773.76</td>
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**ESTIMATE TOTAL** | **$33,437**
### GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’s)

<table>
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<th>UNITS</th>
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<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
<td>$0</td>
<td></td>
<td></td>
<td>$0</td>
</tr>
</tbody>
</table>

### TRADE DIRECTS

**DESCRIPTION**

**Additional Scope of Work**

1. To Install new Water Tapp for the Irrigation system not shown on the contract drawings.
   - $25,745.00
2. Charleston Water Tap / Fee
   - $8,269.00
3. **Remaining Water / Tap Allowance in Contract**
   - $(3,000.00)

**This cost will close the Tap Allowance in the Contract.**

- **Direct Work Subtotal:** $31,014
To: Turner Construction Company  
Address: 4601 Park Road, Suite 601  
Charlotte, NC 28209

Contact: Bobby Teachey
Phone: (704) 319-4854
Fax: Charlotte, NC 28209

Project Name: IAAM - COR32 Irrigation Tap
Project Location: 14 Wharfside Street, Charleston, SC

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Estimated Quantity</th>
<th>Unit</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>IAAM Irrigation Tap</td>
<td>1.00</td>
<td>LS</td>
<td>$25,744.76</td>
</tr>
</tbody>
</table>

Total Bid Price: $25,744.76

Notes:
- See attached backup with scope clarification.

---

**ACCEPTED:**
The above prices, specifications and conditions are satisfactory and are hereby accepted.

**Buyer:**

**Signature:**

**Date of Acceptance:**

---

**CONFIRMED:**
Gulf Stream Construction Company Inc

**Authorized Signature:**

**Estimator:** Ken Allen
(843) 409-5914  kallen@gulfstreamconstruction.com
## Pay Items

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<th>Quantity</th>
<th>Unit</th>
<th>Direct Cost</th>
<th>Total Direct Cost</th>
<th>Unit Price</th>
<th>Total Price</th>
<th>Markup Percent</th>
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<td>1.00 LS</td>
<td>$22,138.00</td>
<td>$22,138.00</td>
<td>$25,744.76</td>
<td>$25,744.76</td>
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## Indirect Items

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<td>Material</td>
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<td>$0.00</td>
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<td></td>
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<td>$0.00</td>
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<tr>
<td></td>
<td>Trucking</td>
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<tr>
<td>Equipment Owned:</td>
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<td>0.00%</td>
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<tr>
<td>Equipment Rented:</td>
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<td>Materials Owned:</td>
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</tr>
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<td>Materials Purchased:</td>
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<td>0.00%</td>
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<td>Subcontracted:</td>
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</tr>
<tr>
<td>Trucking Owned:</td>
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<tr>
<td>Trucking Hired:</td>
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<td>0.00%</td>
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<tr>
<td>Plug:</td>
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<tr>
<td><strong>Direct Cost</strong></td>
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### Indirect Cost Totals

<table>
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<tr>
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<td>Materials Owned:</td>
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<td>0.00%</td>
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<tr>
<td>Materials Purchased:</td>
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<td>0.00%</td>
</tr>
<tr>
<td>Subcontracted:</td>
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<td>0.00%</td>
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<tr>
<td>Trucking Owned:</td>
<td>$0.00</td>
<td>0.00%</td>
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<tr>
<td>Trucking Hired:</td>
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</tr>
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<td>Miscellaneous:</td>
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<td>100.00%</td>
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<tr>
<td>Plug:</td>
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<tr>
<td><strong>Indirect Cost</strong></td>
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### Pay Item Summary

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<th>Percent of Bid Price</th>
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<tr>
<td>Total DC Adds/Cuts:</td>
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<td>Total Indirect Cost:</td>
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<td><strong>Total Overall Cost</strong>:</td>
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<td>Total Overhead:</td>
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<td>Total Margin:</td>
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<tr>
<td><strong>Total Bid Price</strong>:</td>
<td><strong>$25,744.76</strong></td>
<td></td>
</tr>
</tbody>
</table>
August 26, 2021

To: Gulf Stream Construction
   Attn: Harmon Todd
   Via email

Re: IAAM – Irrigation Tap & Meter
   Charleston, SC

Chandler Construction Services, Inc. proposes to provide and install one (1) 10” x 1 ½” tap, one (1) 1 ½” corp stop, 20 LF of 1 ½” copper pipe and one (1) 1 ½” setter in box. We specifically exclude any tap, privilege, usage or other fees, the supply and installation of the 1 ½” meter, any required backflow devices and anything not listed above.

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
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<tbody>
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<td>Labor and Equipment</td>
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<td>1 ½” Tap</td>
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<td>Per Diem</td>
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<td>GC and OH</td>
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<tr>
<td>Additional Mobilization</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$22,138.00</strong></td>
</tr>
</tbody>
</table>

Respectfully submitted,

Chandler Construction Services, Inc.

John Cecil

The content of this proposal is the confidential property and intellectual property of Chandler Construction Services, Inc. and shall not be copied, modified, retransmitted or used for any purpose other than the acquisition of services with Chandler Construction Services, Inc.
## Bill Info

**Statement Date**
JULY 6, 2021

**Date Meter Read**

**Bill Period**
SEP 26 - SEP 26

**Units used**

**Rate Codes**

<table>
<thead>
<tr>
<th>Historical Data</th>
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</thead>
</table>

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**Prior Balance**
$0.00

**Payment on 10/09/19**
$3,931.00 CR

**Prior Balance**
$3,931.00 CR

**Current Month Services:**

- **Origination Fee**
  $30.00
- **Water Tap Fee**
  $500.00
- **Water Tap Fee Adj**
  $1,500.00
- **Water Impact Fee**
  $2,901.00
- **Water Impact Fee Adj**
  $6,769.00
- **Water Eng Serv Fee**
  $500.00

**Total - Current Charges**
$12,200.00

**Total - Amount Due**
$8,269.00

---

**Service Address**

**Account Number** 150425 00 7

**Meter Number**

---

**Account Number**
150425-00-7

**Service Address**

**Amount Due**
$8,269.00

---

**Save a stamp or trip!**
Sign up for e-Bill or AutoDraft
charlestonwater.com/customers

---

**A late payment charge will be added to any balance remaining after the due date.**

---

**Charleston Water System**

P.O. Box 568
Charleston, S.C. 29402-0568

---

**Amount Paid**

Please make check payable to Charleston Water System

---

**150425007 00000826900 31**
Payment Options

Phone
(843) 727-6800 Visa, MasterCard, Discover, American Express. Payments on weekends, holidays, or after 4 p.m. credited the next business day.

Online
Visit charlestonwater.com to register for e-Pay.

Auto Draft
Payments automatically deducted from your bank account every month on the due date. Complete the info below and return to enroll.

Mail
Bottom of this bill with payment.

In Person
Branch offices:
M-F 8 a.m. - 5 p.m.
• 103 St. Philip St. (Downtown)
• 6296 Rivers Ave. (North Area)

Authorized payment centers:
You must have your bill to make a payment. Hours of operation may vary. Payments on weekends, holidays, or after 4 p.m. credited to account the next business day. You may be charged a $1 convenience fee.

Food Lion:
1015 King Street 4400 Dorchester Road
2144 Savannah Highway

Piggly Wiggly:
8780-A Rivers Avenue

Note: To have water service restored after paying at one of these locations, call Customer Service (843) 727-6800.

Account Inquiries
For current account balance and due date, call (843) 727-6800 to access our 24-hour automated system. TDD: 1-800-735-8583.

About Your Bill
Your water bill is based on how much water you use, the size of the water pipe connected to your home or business, and location.

Your water meter measures consumption in cubic feet. We charge a minimum bill for the first (2 Ccf), and an additional amount for volume above the minimum. 1 Ccf equals 748 gallons.

Sewer charges are based on water consumption. Visit charlestonwater.com for water and sewer rates.

Storm Water Charges
We are the billing agent for the city of Charleston’s storm water fee. If you live in the City, this fee appears on your bill. If you have any questions about this fee or stormwater drainage, contact the City’s department of Public Service at (843) 724-7246.

Past Due Accounts
Full payment is due each month by the due date on your bill. Past due accounts will be charged a late fee of 2% of the outstanding balance or $10, whichever is greater. Delinquent accounts are subject to disconnection of water service and will be charged a $50 nonpayment processing fee. Past due stormwater charges do not affect your water service, but a 2% late fee will apply. All outstanding balances are subject to collections and/or reporting to credit agencies and may be submitted to the SC Department of Revenue to be deducted from your individual state income tax refund.

About Your Water
Your tap water comes from the Bushy Park Reservoir and the Edisto River and is treated at our award-winning Hanahan Water Treatment Plant. Our water meets or exceeds all water quality regulations and is tested thousands of times each year to ensure it’s safe.

Look for our annual Water Quality Report in June at charlestonwater.com.

Support Operation Round-Up!
Complete the form below and we’ll round up your bill to the nearest dollar each month, beginning with your next bill. The extra change will benefit our Good Neighbor program or Water Mission, you decide by checking the appropriate box below.

The Good Neighbor program provides assistance to low-income families in the Lowcountry who are unable to pay their water or sewer bill. For more info, call (843) 727-6800 or visit our website.

Water Mission is a Charleston based nonprofit that provides clean, safe water to people in developing countries and disaster areas. Learn more at watermission.org.

Notice:
We provide service in accordance with our Water Rules and Regulations and Wastewater Use and Rate Resolutions. All customers are required to abide by the Rules and Regulations in effect at the time of billing.

Automatic Bank Draft Payment Authorization
By signing below, I authorize and instruct my financial institution to deduct the amount of my monthly water and sewer bill from my checking account and remit directly to Charleston Water System. Bank account information will be obtained from my enclosed check payment.

Yes! I want to participate in Operation Round-up!
By signing below and selecting an organization, I authorize Charleston Water System to round up my future bills to the nearest dollar.

Please select the organization you would like your round-up donation to benefit by checking the appropriate box below. Please select only 1 box. If you sign below but do not make a selection, your donation will benefit the Good Neighbor program

☐ Good Neighbor program  ☐ Water Mission

Mailing Address changes or corrections
Street Address ____________________________
City,State,Zip ____________________________
Richard F. Davis  |  Project Executive
Turner Construction Company
404-504-3700  |  mobile 404-456-3101

From: Davis, Richard F - (ATL)
Sent: Thursday, September 9, 2021 11:03 AM
To: Lewis, Walter - (CAR)
Subject: FW: Irrigation tap question

Richard F. Davis  |  Project Executive
Turner Construction Company
404-504-3700  |  mobile 404-456-3101

From: Davis, Richard F - (ATL)
Sent: Wednesday, September 8, 2021 7:48 AM
To: Trey Linton <tlinton@forsberg-engineering.com>
Subject: RE: Irrigation tap question

Thanks for the info. Very useful.

Richard F. Davis  |  Project Executive
Turner Construction Company
404-504-3700  |  mobile 404-456-3101

From: Trey Linton <tlinton@forsberg-engineering.com>
Sent: Wednesday, September 8, 2021 7:46 AM
To: Davis, Richard F - (ATL) <rfdavis@tcco.com>
Subject: FW: Irrigation tap question

EXTERNAL EMAIL - Please Handle Cautiously

Rick – please see below from CWS. Thanks.

Trey

From: Beasley, Benjamin A <BeasleyBA2@charlestoncpw.com>
Sent: Wednesday, September 8, 2021 7:44 AM
To: Trey Linton <tlinton@forsberg-engineering.com>
Subject: RE: Irrigation tap question

Good morning,

Unfortunately, we do not allow taps from anything smaller than 4”. This is to eliminate unnecessary soldered joints on the copper lines that could potentially become leak points. Let me know if you need anything additional.

Thanks

Benjamin Beasley, GSP
Charleston Water System
From: Trey Linton <tlinton@forsberg-engineering.com>
Sent: Wednesday, September 8, 2021 7:35 AM
To: Beasley, Benjamin A <BeasleyBA2@charlestoncpw.com>
Subject: [External] Irrigation tap question

Ben,
Irrigation question for you. Does CWS allow the irrigation line to be tapped of the 2” domestic meter line or does it need to come of the main?
Thanks,
Trey
To: Edmund V. Most  
From: Mike Risteski  
Date: 10/1/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Proposal No.: Change Order Request No. 167  
Contract: Construction  

<table>
<thead>
<tr>
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<th>CT Install for Dock Power</th>
<th>B - Customer Requested Change</th>
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<tbody>
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<td>This change is associated with the materials and labor in the installation of the additional power meters at each substation. The additional meters were required by Dominion Energy.</td>
<td></td>
<td></td>
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<th>B - Code/Regulatory Agency Required Change</th>
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| Attachments: | J&A from Project Manager  
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<tbody>
<tr>
<td>Independent Cost Estimate</td>
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<td>Pre-Negotiation Position (PNP)</td>
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<th>Change Proposal Request from CMR with Detailed Backup</th>
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| Proposal Cost (not to exceed): | $2,120.00 Owner Contingency Allow. Bal.  
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<td>Time Extension Recommended:</td>
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<td>Comments by Supervisor:</td>
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Decision needed by: October 1, 2021  

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<tbody>
<tr>
<td>(Circle One)</td>
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Mike Risteski, Cumming Corp.  

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<tr>
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<th>(YES)</th>
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</thead>
<tbody>
<tr>
<td>(Circle One)</td>
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</table>

Rick Holt, Cumming Corp.  

<table>
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</thead>
<tbody>
<tr>
<td>(Circle One)</td>
<td></td>
<td></td>
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</tbody>
</table>

Robert Faust, Cumming Corp.  

<table>
<thead>
<tr>
<th>(NO)</th>
<th>(YES)</th>
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</thead>
<tbody>
<tr>
<td>(Circle One)</td>
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</tbody>
</table>

Edmund V. Most, City of Charleston  

<table>
<thead>
<tr>
<th>(NO)</th>
<th>(YES)</th>
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</thead>
<tbody>
<tr>
<td>(Circle One)</td>
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</table>

Bernard Costantino, Moody Nolan  

<table>
<thead>
<tr>
<th>(NO)</th>
<th>(YES)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>(Circle One)</td>
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</tbody>
</table>

Fire & Life Safety Plans: 

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
</table>

Sustainability Plan: 

<p>| | |</p>
<table>
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</thead>
</table>

Eligibility Assessment: 

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
</table>

Copyright © 2021 Cumming. All rights reserved.  

Electronic Signature: Bernard Costantino
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To install the 2 additional CT Boxes for the City</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>TBD Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced 8/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
<td></td>
</tr>
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</table>

Submitted By: Contractor: TURNER BROWNSTONE 09/27/2021 $ 2,120

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston $ 2,120
## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR $0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT $0</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$1,958.00</td>
</tr>
<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
<td>$1,958</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>2.50%</td>
<td>$48.95</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>0.012</td>
<td>$23.50</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>0.84%</td>
<td>$16.45</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>0.00732</td>
<td>$14.33</td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>0.04500%</td>
<td>$0.88</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit (Taken of of Direct work cost)</td>
<td>3.25%</td>
<td>$57.47</td>
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**SUBTOTAL** $1,958

**ESTIMATE TOTAL** $2,120
**International African American Museum**

**DETAIL ESTIMATE OF DIRECTS**

<table>
<thead>
<tr>
<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
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<td></td>
<td></td>
<td>$0</td>
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</table>

**DESCRIPTION**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
</tr>
</tbody>
</table>

**TRADE DIRECTS**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
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</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$1,958.00</td>
<td>1</td>
<td>1</td>
<td>$1,958.00</td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL**

$1,958
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

SCOPE OF WORK:
- Install (2) two utility CT metering units for Unsit Substations at each Unit Substation A & B.

Includes:
Installation of (2) CT metering units.
Stainless steel unistrut mounting structure.
Remount existing 400 amp disconnects.

Excludes:
Furnishing CT Meters (furnished by power company)

Clarifications:
This work is integral to the #500 kcmil feeders from Utility transformer to Unit Substations.
Per power company, account must be set up before they will release the CT meters to Watson for installation.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 3 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_58>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 x CLOSE NIPPLE - RMC - GALV</td>
<td>2</td>
<td>63.70</td>
<td>2.24</td>
</tr>
<tr>
<td>3&quot; LOCKNUT - STEEL</td>
<td>4</td>
<td>31.68</td>
<td>0.20</td>
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<tr>
<td>3&quot; BUSHING - STEEL</td>
<td>4</td>
<td>136.89</td>
<td>0.21</td>
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<tr>
<td>3/8-16 SPRING NUT 2 7/16 OR 3 1/4&quot; STRUT</td>
<td>8</td>
<td>31.51</td>
<td>0.60</td>
</tr>
<tr>
<td>FLAT SQ WASHER W/ 3/8&quot; HOLE GRN</td>
<td>2</td>
<td>8.00</td>
<td>0.12</td>
</tr>
<tr>
<td>2H CRNR ANGLE 2 5/16x 1 5/8x 1 5/8&quot; GRN</td>
<td>2</td>
<td>17.26</td>
<td>0.09</td>
</tr>
<tr>
<td>1 5/8x 1 5/8x xxG CHANNEL - S/S</td>
<td>60</td>
<td>0.00</td>
<td>15.84</td>
</tr>
<tr>
<td>3/8-16x2 3/4 WEDGE ANCHOR - 1 1/2&quot; MIN DEPTH - 304 S/S</td>
<td>8</td>
<td>16.46</td>
<td>1.80</td>
</tr>
<tr>
<td>3/4&quot; FLAT WASHER - PLTD STL</td>
<td>8</td>
<td>2.16</td>
<td>0.48</td>
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<tr>
<td>#12x 3/4 F/H SELF-TAP SCREW</td>
<td>8</td>
<td>0.00</td>
<td>0.55</td>
</tr>
<tr>
<td>METERING CURRENT TRANSFORMER</td>
<td>2</td>
<td>0.00</td>
<td>3.45</td>
</tr>
<tr>
<td>Totals</td>
<td>108</td>
<td>307.67</td>
<td>25.58</td>
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ORIGINAL
# Proposed Change Order

## Summary

<table>
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<tr>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>General Materials</td>
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<tr>
<td>Material Tax (@ 9.000 %)</td>
<td>$27.69</td>
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<tr>
<td>Material Total</td>
<td>$335.36</td>
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<tr>
<td>JOURNEYMAN (25.58 Hrs @ $45.00)</td>
<td>$1,151.10</td>
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<tr>
<td>FOREMAN (3.84 Hrs @ $50.00)</td>
<td>$192.00</td>
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<tr>
<td>Subtotal</td>
<td>$1,678.46</td>
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<tr>
<td>Overhead (@ 10.000 %)</td>
<td>$167.85</td>
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<tr>
<td>Markup (@ 5.000 %)</td>
<td>$92.32</td>
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<tr>
<td>Subtotal</td>
<td>$1,938.63</td>
</tr>
<tr>
<td>Adjustment #1 Bond (@ 1.000 %)</td>
<td>$19.39</td>
</tr>
<tr>
<td><strong>Final Amount</strong></td>
<td><strong>$1,958.02</strong></td>
</tr>
</tbody>
</table>

## Contractor Certification

**Name:**

**Date:**

**Signature:**

I hereby certify that this quotation is complete and accurate based on the information provided.

## Client Acceptance

**PCO #**

**58**

**Final Amount:**

**$1,958.02**

**Name:**

**Date:**

**Signature:**

**Change Order #:**

I hereby accept this quotation and authorize the contractor to complete the above described work.
Steve,

Thank you for your voicemail late last week. I have confirmed the north docks elect service will require a separate meter from the IAAM service. I have already given Elbow a heads up please advance this request as soon as possible and coordinate with Turner with the account. Eventually it will be transferred over to the city.

Thanks, Edmund

Sent from my iPhone
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 168  
Contract: Construction  

Description of work to be performed: Power for Smoke Dampers  

This change is associated with the materials and labor for the installation of power to the automated smoke dampers. The original contract drawings show the smoke dampers however their power requirements are not specified and were not shown on the drawings. Turner submitted an RFI to clarify the power requirements, and the answer was sent that the power should be supplied from the DDC panel. Unfortunately this was not possible therefore the dampers had to be converted to AC power and separate power was pulled to each damper location.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $32,679.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:  
(YES) (NO)  
(Rick Holt, Cumming Corp.)

Decision needed by: February 24, 2022

(YES) (NO)  
(Mike Risteski, Cumming Corp.)

(YES) (NO)  
(Robert Faust, Cumming Corp.)

(YES) (NO)  
(Edmund V. Most, City of Charleston)

(YES) (NO)  
(Bernard Costantino, Moody Nolan)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**

To supply power to smoke dampers not shown on the contract drawings. Spec requires 24 volt smoke dampers, drawings do not show power source, circuiting, or associated information.

<table>
<thead>
<tr>
<th>Reason</th>
<th>Code / Regulatory</th>
<th>Unforeseen Condition</th>
<th>Design Issue</th>
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<tbody>
<tr>
<td>Owner Directive</td>
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<td>X</td>
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<table>
<thead>
<tr>
<th>Pricing</th>
<th>PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Trade Contractors - See Detailed Estimates</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact</th>
<th>Impact</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
</tr>
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<tbody>
<tr>
<td>X</td>
<td>Evaluating Potential for Time Impact</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>Evaluated - NO TIME IMPACT</td>
<td></td>
</tr>
<tr>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td></td>
</tr>
</tbody>
</table>

**Submitted By:**

Walter Lewis  
Project Engineer  
10/04/2021  
Dated  
$ 32,679  
Amount Requested

**Contractor:** **TURNER BROWNSTONE**  
10/04/2021  
$ 32,679  
Amount Approved

**Reviewed By:**

Program Manager: **CUMMING**

/ /  
Dated

**Requested Action:**

Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

**Authorized Action:**

Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

**Approved By:**

Edmund Most  
Owner: **City of Charleston**  
/ /  
Dated  
$ 32,679  
Amount Approved
# International African American Muesum

## General Summary of the Estimate

### COR No.: 168

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) SELF PERFORMED LABOR</td>
<td>$0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S) MATERIAL(S) &amp; EQUIPMENT</td>
<td>$0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$30,172.00</td>
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</tbody>
</table>

**SUBTOTAL TRADE DIRECTS** $30,172

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4</td>
<td>CCIP</td>
<td>@ 2.50%</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.00732</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>@ 0.84%</td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>@ 0.04500%</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit (Taken of of Direct work cost)</td>
<td>@ 3.25%</td>
</tr>
</tbody>
</table>

**SUBTOTAL** $30,172

**ESTIMATE TOTAL** $32,679
## INTERNATIONAL AFRICAN AMERICAN MUSEUM
### DETAIL ESTIMATE OF DIRECTS

<table>
<thead>
<tr>
<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>UNITS</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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<tbody>
<tr>
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<td></td>
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</tr>
<tr>
<td>DESCRIPTION</td>
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<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
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<tr>
<td><strong>TRADE DIRECTS</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Additional Scope of Work</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 To provide power to Smoke Dampers and transformers</td>
<td>$27,172.00</td>
<td>1</td>
<td>LS</td>
<td>$27,172.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Drywall and Paint Patch back after work is complete</td>
<td>$3,000.00</td>
<td>1</td>
<td>LS</td>
<td>$3,000.00</td>
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</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** | **$30,172** |
**Work Description**

**SCOPE OF WORK:**
**SCOPE:** Power for (17) Fire / Smoke Dampers.

**Inclusions:**
- Flooring covering and protection- plywood and foam board.
- 120 volt / 20 amp power circuits to transformers.
- 3/4" EMT conduit and #10 awg conductors for power and 16/2c low voltage wiring.
- Low voltage cable as per Damper submittal and cable submittal.
- Core drilling through walls and between floors as required.
- Fireproofing where required.
- Connections / terminations to dampers; with approval and coordination of mechanical contractor.

**Exclusions:**
- 500 VA power transformer and enclosure.
- 100 VA and smaller power transformers (enclosures by Watson).
- Fire / smoke dampers or mechanical equipment.
- Connections, cabling or programming relating to BAS system or mechanical controls system(s).
- Cutting and patching.

**Clarifications:**
- Use existing SPARE 120 volt / 20 amp breakers in panel EAP-L3.
- Acknowledgement-we have reviewed current panel legends and current existing conditions of panel EAP-L3 and confirm that there are available breakers.
- Acknowledgement-cable size will consider run lengths when sizing cable.
- Approved change order required prior to beginning work.
- Testing of dampers in coordination with mechanical contractor.
- Price includes using scaffolding.
- Removal of ceiling tiles where required by others.
- Watson not responsible for damaged ceiling tiles.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 14 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_60 Fire / Smoke Dampers Power>. 
## Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; CONDUIT - EMT</td>
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<td>1,210.18</td>
<td>72.50</td>
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<tr>
<td>3/4&quot; CONN COMP STL - EMT</td>
<td>22</td>
<td>89.29</td>
<td>4.62</td>
</tr>
<tr>
<td>3/4&quot; COUPLING COMP STL - EMT</td>
<td>72</td>
<td>337.20</td>
<td>32.40</td>
</tr>
<tr>
<td>1/2 OR 3/4&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>79</td>
<td>159.43</td>
<td>5.92</td>
</tr>
<tr>
<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>11</td>
<td>70.56</td>
<td>1.52</td>
</tr>
<tr>
<td>3/4&quot; FLEX - ALUMIN</td>
<td>102</td>
<td>198.45</td>
<td>6.83</td>
</tr>
<tr>
<td>3/4&quot; CONN FLEX DC SQUEEZE STRAIGHT</td>
<td>9</td>
<td>22.58</td>
<td>1.70</td>
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<td>3/4&quot; CONN FLEX DC SQUEEZE 90 DEG</td>
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<td>7.79</td>
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<td>#16/2C HI-TEMP CTRL CBL</td>
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<td>5.08</td>
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## Summary

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**PROPOSED CHANGE ORDER**

PCO # 60
Page Number: 2

**ORIGINAL**
### CONTRACTOR CERTIFICATION

Name: 

Date: 

Signature:  

I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

<table>
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Name: 

Date: 

Signature:  

Change Order #:  

I hereby accept this quotation and authorize the contractor to complete the above described work.
**Smoke Damper PD and Drawings**

**SPEC SECTION:** 23 33 00 - Air Duct Accessories  
**CREATED BY:**

**STATUS:** Open  
**DATE CREATED:** 09/23/2021

**ISSUE DATE:** 09/23/2021  
**REVISION:** 0

**RESPONSIBLE CONTRACTOR:** Watson Electrical Construction Co. LLC

**RECEIVED FROM:** Dale Winovich

**RECEIVED DATE:** //  
**SUBMIT BY:** //

**FINAL DUE DATE:** 10/07/2021  
**LOCATION:**

**TYPE:** Product Data  
**COST CODE:**

**APPROVERS:** Bri'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)

**BALL IN COURT:**  
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)

**DISTRIBUTION:**  
Bernard Costantino (Moody Nolan) , Julie Cook, AIA (Moody Nolan)

**DESCRIPTION:**

**ATTACHMENTS:**

### SUBMITTAL WORKFLOW

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<th>DUE DATE</th>
<th>RETURNED DATE</th>
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<td>23 33 00 - International African American Museum - Pottorff Fire Smoke Damper Submittals, Revision 2.pdf</td>
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<td>IIAM XFR PANEL LOCATIONS AND SIZES 9-22-21.pdf</td>
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</tbody>
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**TCCo Atl/Car**  
Page 1 of 2  
Printed On: 09/24/2021 04:32 PM
Mechanical comments:
1. Note this is a revision to the 23 33 00-1.0 Submittal reviewed by Arup in 2019.
2. There are 17 total dampers shown in the revised FSD submittal on pages 13-18 and all listed as 120V.
3. Beginning of submittal shows provision for 120VAC to 24Vac transformers. Contractor to correct.
4. Install per details 1 and 2 on sheet M-807.
5. Contractor to coordinate installation of all FSDs with Fire Alarm contractor.
6. Contractor to confirm final dimensions and locations.

Electrical comments:
1. Contractor to confirm that spares are available in EAP-L3. Panel schedule shown within submittal does not include latest bulletins.
2. All work shall be completed without the addition of any new access panels.
3. Coordinate conductor size with length of each run. Upsize conductors as required to avoid voltage drop on long low voltage runs.
# Submittal #23 33 00-9.0
23 33 00 - Air Duct Accessories

## Smoke Damper PD and Drawings

<table>
<thead>
<tr>
<th>SPEC SECTION:</th>
<th>CREATED BY:</th>
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**STATUS:** Open  
**DATE CREATED:** 09/23/2021

**ISSUE DATE:** 09/23/2021  
**REVISION:** 0

**RESPONSIBLE CONTRACTOR:** Watson Electrical Construction Co. LLC

**RECEIVED FROM:** Dale Winovich

**RECEIVED DATE:** //  
**SUBMIT BY:** //

**FINAL DUE DATE:** 10/07/2021  
**LOCATION:**

**TYPE:** Product Data  
**COST CODE:**

**APPROVERS:** Bri'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)

**BALL IN COURT:**  
Bri'Shae Anderson (Turner Construction (CAR))

**DISTRIBUTION:**  
Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan)

**DESCRIPTION:**

**ATTACHMENTS:**

---

## SUBMITTAL WORKFLOW

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<thead>
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<th>#</th>
<th>NAME</th>
<th>SUBMITTER/ APPROVER</th>
<th>SENT DATE</th>
<th>DUE DATE</th>
<th>RETURNED DATE</th>
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23 33 00 - International African American Museum - Potterff Fire Smoke Damper Submittals, Revision 2.pdf  
21-0923-05.pdf  
IIAM XFR PANEL LOCATIONS AND SIZES 9-22-21.pdf |
<p>| 2 | Dale Winovich | Submitter | 10/7/2021 | 9/23/2021 | Submitted | | |
| 4 | Julie Cook, AIA | Approver | 10/7/2021 | | | Pending | |</p>
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<th>RETURNED DATE</th>
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Date: September 23, 2021

FIRE / SMOKE DAMPER POWER

CUTSHEETS

International African American Museum Controls

Transmitted To:
International African American
14 Wharfside Street
Charleston,
SC 29401

Submitted By:
Joe Curry
Project Owner

JCI Contract: 0N94-0069

Johnson Controls, Inc.
4415 Sea Ray Drive
Charleston,
SC 29405
Tel: 843-745-6748
Fax: 843-744-5553

QTY 1: PSH500
QTY 3: PSH100
QTY 1: Y65T42-0
### Specifications

- **Transformer:** One (1) 500 VA
- **Over Current Protection:** Circuit Breaker
- **Primary:** 480/277/240/120 Vac
- **Frequency:** 50/60 Hz
- **Dimensions:** 12.125” x 12.125” x 6.000” (PSH500A)
  11.320” x 11.400” x 5.000” (PSMN500A)
- **Approvals:** Class 2 (UL Approved, UL508S-3), UL916, UL508, C-UL, CE, RoHS
- **Sub-Panel:** Plenum Rated Polymetal Sub-Panel (PSMN500A)
- **Housing:** NEMA1 Metal Enclosure (PSH500A)
- **Weight:** 30.16 lbs. (PSH500A)
  20.60 lbs. (PSMN500A)

- **5 Secondaries:**
  - 24 Vac, with LED Indicators
  - 24 Vac ON/OFF:
    - On / Off Switch & Breaker
- **Input:**
  - 480/277/240/120 Vac Finger-Safe Terminals, 8-18 AWG
- **Output:**
  - 5 Isolated, Floating 100 VA Class 2 24 Vac Terminals, 12-26 AWG
- **Ambient Temperature Derating:**
  - 4A up to 40°C; 3A up to 50°C; 2A up to 55°C
  (When All 5 Outputs Operated Simultaneously)

- **Notes:**
  - To order UL508, add “-C” to end of model number.
  - Open style is mounted to sub-panel SP3003 for shipping and may be remounted to suit application.

- **Standby Wattage:**
  - 48.315 W @ 120 Vac
  - 48.699 W @ 240 Vac
  - 49.564 W @ 277 Vac
  - 48.255 W @ 480 Vac

- **Full Load Primary Current:**
  - 4.66 A @ 120 Vac
  - 2.41 A @ 240 Vac
  - 2.06 A @ 277 Vac
  - 1.17 A @ 480 Vac

- **Secondary Output Voltage vs. Load:**
  - 24.0 V @ 20 VA
  - 23.8 V @ 50 VA
  - 23.5 V @ 80 VA
  - 23.0 V @ 100 VA
  - With 120 Vac primary input voltage
  - When all 5 outputs operated simultaneously, at room temperature

---

**Great for VAV Applications**
### PSH100A SERIES
Enclosed Single 100 VA Power Supplies, 120 to 24 Vac

**Model Shown:** PSH100AB10

### GENERAL SPECIFICATIONS
- Transformer: One 100VA Split-Bobbin
- **Primary:** 120 Vac
- **Secondary:** 24 Vac, w/ LED Indicator
- **24 Vac ON/OFF:** Switch / Breaker (4 Amp)
- **Main Breaker ON/OFF:** Switch / Breaker (10 Amp)
- **Outputs:**
  - Aux. Output Wire (1)
  - Total Combined Output 9A
- **Approvals:** Class II UL Listed, UL914, C-UL Canada
- **Dimensions:** W=5.15", H=4.25", D=3.75"
- **Weight:** 4.5 lbs.

### INPUT WIRES
- **PSH100A Models Only**
- **All Other Models**
- **Block:** 120 Vac
- **White:** Neutral
- **Green:** Ground

### OUTPUT WIRES
- **“B10” Models Only**
  - **Block:** 120 Vac
  - **White:** Neutral
  - **Green:** Ground
- **“W” Models Only**
  - **Block:** 120 Vac
  - **White:** Common
  - **Green:** Ground

### NOTES
Mounting plate included with all models. See page 130 for mounting instructions.

### PSH100A SELECTION GUIDE
<table>
<thead>
<tr>
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<th>120 Vac Outlets</th>
<th>Aux. Output Wire</th>
<th>Main Breaker On Input Power</th>
<th>Secondary Configuration</th>
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<td>PSH100AN</td>
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<td>External Terminal Strip</td>
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<td>Internal Wires</td>
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<td>PSH100AW</td>
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<td>1</td>
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<td>10A Switch / Breaker</td>
<td>Internal Wires</td>
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</table>

#### Key Features
- 1/2" Knockout
- 3/4" Knockout
- 120 Vac Convenience Outlet
- Main Breaker On/Off Switch
- 24 Vac Terminals
- 24 Vac Breaker On/Off Switch
- LED Indicator
- Optional Features
  - 120 Vac Convenience Outlets
  - 24 Vac Output: Terminals or White/Yellow Wires
  - 10 Amp Main Breaker Switch
Description

The Y63, Y64, Y65, Y66, and Y69 Series Transformers provide 24 VAC power for loads of 40 VA through 300 VA. These transformers are designed for use on digital controllers, gas controls, ignition systems, motor actuators, staging controls, and most other 24 VAC HVAC/R control systems.

The Y6x Series meets the requirements of UL 1585, UL 506, and CSA C22.2 No. 66, providing compliance in both the United States and Canada. The Y63, Y64, Y65, and Y66 transformers are listed as Class 2 transformers (UL 1585, CSA C22.2 No. 66). The Y69 is listed as a general purpose transformer (UL 506, CSA C22.2 No. 66).

Refer to the *Series Y63, Y64, Y65, Y66, and Y69 Transformers Product Bulletin (LIT-125755)* for important product application information.

Features

- Split-bobbin design provides best primary/secondary isolation
- Multi-tap primaries reduce stocking requirements and offer application flexibility
- Choice of foot, plate, or conduit hub mounting provides mounting flexibility
- Choice of primary voltages meets a wide range of power requirements from 24 VAC through 480 VAC
- Color-coded lead wires provide simplicity and standardization
- cULus listed or cURus recognized meets US and Canadian requirements for Class 2 transformers (Y63, Y64, Y65, and Y66) and general purpose transformers (Y69)
- Built-in, easy-reset circuit breakers eliminate replacement time and cost caused by burn-out (Y63, Y64, Y66, and Y69)
- Open frame Y65 models serve as ideal models when end bells are not required

**Table 1: Y63, Y64, Y65, Y66, and Y69 Series Transformers**

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<tr>
<th>Product Code Number</th>
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<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
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<td>24</td>
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<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULUS Class 2</td>
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<tr>
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<td>24</td>
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<td>End bell holes 8 in. primary leads</td>
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<td>4 in. x 4 in. plate</td>
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<td>Foot</td>
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<td>120/208/240</td>
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<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Hub 4 in. x 4 in. plate'</td>
<td>cURus Class 2</td>
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<td>8 in. primary leads</td>
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<td>Foot-skeleton</td>
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<td>Y65F42-0</td>
<td>277/480</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Hub 4 in. x 4 in. plate'</td>
<td>cURus Class 2</td>
</tr>
</tbody>
</table>

**50 VA Capacity Transformers with Circuit Breakers**

<table>
<thead>
<tr>
<th>Product Code Number</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y63T22-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell Hole 8 in. primary leads</td>
<td>End bell Hole 8 in. secondary leads</td>
<td>4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y63T31-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>Foot</td>
<td>cULUS Class 2</td>
</tr>
<tr>
<td>Y63F22-0</td>
<td>277/480</td>
<td>24</td>
<td>End bell Hole 8 in. primary leads</td>
<td>End bell Hole 8 in. secondary leads</td>
<td>4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
</tr>
</tbody>
</table>

**75 VA Capacity Transformers with Circuit Breakers**

<table>
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<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y66T12-0</td>
<td>120/208/240</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Foot</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y66T13-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULUS Class 2</td>
</tr>
<tr>
<td>Y66F12-0</td>
<td>277/480</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Foot</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y66F13-0</td>
<td>277/480</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULUS Class 2</td>
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**92 VA Capacity Transformers with Circuit Breakers**

<table>
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<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
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</thead>
<tbody>
<tr>
<td>Y64T15-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Internal Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULUS Class 2</td>
</tr>
</tbody>
</table>
Table 1: Y63, Y64, Y65, Y66, and Y69 Series Transformers

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
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</thead>
<tbody>
<tr>
<td>Y64T21-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell holes 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>Plate</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y64T22-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell Hole 8 in. primary leads</td>
<td>End bell Hole 8 in. secondary leads</td>
<td>Plate</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y69T15-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Internal Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Power Transformer</td>
</tr>
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</table>

300 VA Capacity Transformers with Circuit Breakers

1 4 in. x 4 in. plate and nut packed with transformer.

Y63, Y64, Y65, Y66, Y69 Series Transformers technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Input Power Requirements</td>
<td>24 to 480 VAC at 60 Hz</td>
</tr>
<tr>
<td>Full Load Secondary Voltage</td>
<td>23.5 VAC (Nominal)</td>
</tr>
<tr>
<td>Open Circuit Secondary Voltage (No Load)</td>
<td>27.0 VAC (Nominal)</td>
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<tr>
<td>Full Load Secondary VA Rating Series</td>
<td>VOL-Ampères</td>
</tr>
<tr>
<td>• Y63</td>
<td>• 50 VA</td>
</tr>
<tr>
<td>• Y64</td>
<td>• 92 VA</td>
</tr>
<tr>
<td>• Y65</td>
<td>• 40 VA</td>
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<tr>
<td>• Y66</td>
<td>• 75 VA</td>
</tr>
<tr>
<td>• Y69</td>
<td>• 300 VA</td>
</tr>
<tr>
<td>Finish</td>
<td>End bells, frame, feet, and mounting plates are corrosion resistant</td>
</tr>
<tr>
<td>Ambient Operating Temperature</td>
<td>-40 to 104°F (-40 to 40°C)</td>
</tr>
<tr>
<td>Ambient Storage Temperature</td>
<td>-40 to 140°F (-40 to 60°C)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>• Y63</td>
</tr>
<tr>
<td></td>
<td>• Y64</td>
</tr>
<tr>
<td></td>
<td>• Y65</td>
</tr>
<tr>
<td></td>
<td>• Y66</td>
</tr>
<tr>
<td></td>
<td>• Y69</td>
</tr>
<tr>
<td></td>
<td>• 3.0 lb/1.4 kg</td>
</tr>
<tr>
<td></td>
<td>• 4.0 lb/1.8 kg</td>
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<td>• 2.0 lb/0.9 kg</td>
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<td>• 3.0 lb/1.4 kg</td>
</tr>
<tr>
<td></td>
<td>• 11.0 lb/5.0 kg</td>
</tr>
<tr>
<td>Agency Compliance</td>
<td>• UL Listed Y63, Y64, Y65, Y66; File E95575, CCN’s XOKV (US) and XOKV7 (Canada)</td>
</tr>
<tr>
<td></td>
<td>• UL Recognized Y63, Y64, Y65, Y66; File E95575, CCN’s XOKV2 (US) and XOKV8 (Canada)</td>
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<td></td>
<td>• UL Listed Y69; File E95138, CCN’s XPTQ (US) and XPTQ7 (Canada)</td>
</tr>
<tr>
<td></td>
<td>• All transformers are Class 2 except the Y69 (300 VA), which is listed as a power transformer.</td>
</tr>
</tbody>
</table>

Product warranty
This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms
Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Single point of contact

<table>
<thead>
<tr>
<th>APAC</th>
<th>Europe</th>
<th>NA/SA</th>
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</thead>
<tbody>
<tr>
<td>JOHNSON CONTROLS</td>
<td>C/O CONTROLS PRODUCT MANAGEMENT NO. 32 CHANGJIANG RD NEW DISTRICT WUXI JIANGSU PROVINCE 214028 CHINA</td>
<td></td>
</tr>
<tr>
<td>JOHNSON CONTROLS</td>
<td>WESTENDHOF 3 45143 ESSEN GERMANY</td>
<td></td>
</tr>
<tr>
<td>JOHNSON CONTROLS</td>
<td>507 E MICHIGAN ST MILWAUKEE WI 53202 USA</td>
<td></td>
</tr>
</tbody>
</table>

Contact information
Contact your local branch office: www.johnsoncontrols.com/locations
Contact Johnson Controls: www.johnsoncontrols.com/contact-us

Y63, Y64, Y65, Y66, and Y69 Series Transformers Catalog Page
FIRE SMOKE DAMPER SUBMITTAL

Project: International African American Museum
Location: Charleston, SC
Contractor: Superior Mechanical
Engineer: Arup USA, Inc.
1120 Connecticut Avenue N.W. – Suite 1110
Washington, DC 20036

Fire Smoke Dampers by Pottorff
**Model** FSD-125R
Combination fire smoke damper, 1-1/2 hour, UL class 1, round blade

**General construction**
- **Dimensions:** Nominal (approximately 1/8" (3) undersize)
- **Material:** Galvanized steel
- **Mount:** Vertical
- **Sleeve:** Type: Integral sleeve; Length (in): 16"; Gauge: 20;
  Clearance (in): 6"
- **Blade style:** 14 gauge, round
- **Blade action:** Single blade
- **Axies:** 3/4” (19) diameter plated steel
- **Linkage:** In the air-stream
- **Bearings:** Bronze oilite, sleeve-type
- **Seals:** Silicone blade edge seal
- **Fire closure device:** HS-10
- **Fire closure temperature (°F):** Primary: 165
- **Angles:** Holding plate

**Ratings**
- **UL 555 fire resistance rating:** 1-1/2 hour (vertical and horizontal)
- **UL 555S leakage class:** 1 [8 cfm/sq.ft. @ 4 in.wg.] [(0.04m³/s/ m²@1.0 kPa)]
- **Dynamic closure velocity (fpm):** 2000
- **UL555S rated pressure (in.wg.):** 4
- **Application temperature (°F):** 250

**Listings**
- **UL555SListing:** R11767
- **CSFM listing:** 3225-0368:112 and 3230-0368:113

**Details**

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>Dimensions (in.xxx)</th>
<th>Sleeve</th>
<th>Actuator</th>
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<tbody>
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<td></td>
<td>D</td>
<td>L (in)</td>
<td>Gauge</td>
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<td>8</td>
<td>16</td>
<td>20</td>
</tr>
</tbody>
</table>

This submittal sheet reflects only the construction and options selected and is not indicative of all constructions and options that are available for the product. For more information, please contact your local representative or visit us at www.potterff.com.

Information is subject to change without notice or obligation.

Note: Dimensions in parentheses ( ) are millimeters.
Model FSD-125R

Actuator and Sleeve Interference Details

Dimensional Data

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>Dimensions (in.xxx)</th>
<th>Sleeve</th>
<th>Actuator</th>
<th>Dimensional data (in)</th>
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<td>L (in)</td>
<td>Ctr (in)</td>
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<td>8</td>
<td>16</td>
<td>6</td>
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<td>FSLF120</td>
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</tbody>
</table>

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Note: Dimensions in parentheses ( ) are millimeters.
Pressure drop testing

Pressure drop testing was performed in accordance with AMCA Standard 500-D. All data has been corrected to represent air density of 0.075 lb/ft³. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.

Ducted inlet and outlet
Submittal

**Model FSD-151**
Combination fire smoke damper, 1-1/2 hour, UL class 1, airfoil blade

**General construction**
- **Dimensions:** Nominal (approximately 1/4" (6) undersize, sleeve thickness not included)
- **Material:** Galvanized steel
- **Frame:** 5" x 1" (127x25) hat channel, 13 gauge equivalent
- **Blade style:** 6" x 14 gauge equivalent gauge, airfoil
- **Blade action:** Parallel
- **Sleeve:** Type: Sleeve
- **Axes:** 1/2" (13) diameter plated steel hex
- **Linkage:** Concealed in frame
- **Bearings:** Stainless steel oilite, sleeve-type
- **Seals:** Blade: Silicone; Jamb: Flexible stainless steel
- **Fire closure device:** HS-10
- **Fire closure temperature (°F):** Primary: 165

**Options**
- **Mount:** Horizontal
- **Angles:** Type: 1-1/2 x 1-1/2 x 16 ga (2 sides)

**Ratings**
- **UL555FireResistanceRating:** 1-1/2 hour (vertical and horizontal)
- **UL 555S leakage class:** 1 [8 cfm/sq. ft. @ 4 in wg.] ([0.04m³/s/m²@1.0 kPa])
- **UL HNLJ V-5:** Ventilation Duct Assemblies
- **Dynamic closure velocity (fpm):** 2000
- **UL555S rated pressure (in.wg.):** 4
- **Application temperature (°F):** 250

**Listings**
- **UL 555 and 555S listing:** R11767
- **CSFM listing:** 3225-0368:115 and 3230-0368:116

---

**Details**

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
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<th>D</th>
<th>Wide x High</th>
<th>L (in)</th>
<th>Gauge</th>
<th>Clr (in)</th>
<th>Qty</th>
<th>Model</th>
<th>Volt</th>
<th>Pos</th>
<th>Orien</th>
<th>Loc</th>
<th>Power consumption (per actuator)</th>
<th>Transformer sizing (VA) (per actuator)</th>
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<tbody>
<tr>
<td>2</td>
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<td>PO</td>
<td>Perp</td>
<td>Ext/int</td>
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<td>27</td>
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<td>Perp</td>
<td>Ext/int</td>
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<td>PO</td>
<td>Perp</td>
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---

Project: International African America
Submittal Date: 9/16/2021
Submitted By: ben.feldman

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Note: Dimensions in parentheses ( ) are millimeters.
Model FSD-151

The drawings and corresponding table illustrate the position of the damper when mounted in a factory sleeve and the relative space required for a given actuator. The standard mounting locations provide enough space for installation of retaining angles and duct connections.

### Dimensional Data

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>Dimensions (in. xxxx)</th>
<th>Sections</th>
<th>Sleeve or Side Plate</th>
<th>Actuator</th>
<th>Dimensional data (in)</th>
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<td>D</td>
<td>Wide x High</td>
<td>L (in)</td>
<td>Clr (in)</td>
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<td>70 x 20</td>
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</table>

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Information is subject to change without notice or obligation.

Note: Dimensions in parentheses ( ) are millimeters.
**Submittal**

**Model** FSD-151  
Combination fire smoke damper, 1-1/2 hour, UL class 1, airfoil blade

**General construction**
- **Dimensions:** Nominal (approximately 1/4" (6) undersize, sleeve thickness not included)
- **Material:** Galvanized steel
- **Mount:** Vertical
- **Frame:** 5" x 1" (127x25) hat channel, 13 gauge equivalent
- **Blade style:** 6" x 14 gauge equivalent gauge, airfoil
- **Blade action:** Parallel
- **Sleeve:** Type: Sleeve
- **Axles:** 1/2" (13) diameter plated steel hex
- **Linkage:** Concealed in frame
- **Bearings:** Stainless steel oilite, sleeve-type
- **Seals:** Blade: Silicone; Jamb: Flexible stainless steel
- **Fire closure device:** HS-10
- **Fire closure temperature (°F):** Primary: 165

**Options**
- **Angles:** Type: 1-1/2 x 1-1/2 x 16 ga (2 sides)

**Ratings**
- **UL555FireResistanceRating:** 1-1/2 hour (vertical and horizontal)
- **UL 555S leakage class:** 1 [8 cfm/sq. ft. @ 4 in wg.] [[0.04m³/s/m²@1.0 kPa]]
- **UL HNLJ V-5:** Ventilation Duct Assemblies
- **Dynamic closure velocity (fpm):** 2000
- **UL555S rated pressure (in.wg.):** 4
- **Application temperature (°F):** 250

**Listings**
- **UL 555 and 555S listing:** R11767
- **CSFM listing:** 3225-0368:115 and 3230-0368:116

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**Details**

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
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<th>D</th>
<th>Wide x High</th>
<th>L (in)</th>
<th>Gauge</th>
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<th>Qty</th>
<th>Model</th>
<th>Volt</th>
<th>Pos</th>
<th>Orien</th>
<th>Loc</th>
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</tbody>
</table>

This submittal sheet reflects only the construction and options selected and is not indicative of all constructions and options that are available for the product. For more information, please contact your local representative or visit us at [www.pottorff.com](http://www.pottorff.com).

Information is subject to change without notice or obligation.  
Note: Dimensions in parentheses ( ) are millimeters.
Model FSD-151
The drawings and corresponding table illustrate the position of the damper when mounted in a factory sleeve and the relative space required for a given actuator. The standard mounting locations provide enough space for installation of retaining angles and duct connections.

### Dimensional Data

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>Dimensions (in.xxxx)</th>
<th>Sections</th>
<th>Sleeve or Side Plate</th>
<th>Actuator</th>
<th>Dimensional data (in)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>W x H</td>
<td>D</td>
<td>L (in)</td>
<td>Clr (in)</td>
<td>Qty</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>12 x 6</td>
<td>1 x 1</td>
<td>16</td>
<td>6</td>
<td>1</td>
<td>FSTF120</td>
</tr>
</tbody>
</table>

This submittal sheet reflects only the construction and options selected and is not indicative of all constructions and options that are available for the product. For more information, please contact your local representative or visit us at www.potterff.com.

Information is subject to change without notice or obligation.

Note: Dimensions in parentheses ( ) are millimeters.
Pressure drop testing
Pressure drop testing was performed in accordance with AMCA Standard 500-D using the three configurations shown. All data has been corrected to represent air density of 0.075 lb/ft³. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.

Ducted inlet and outlet
AMCA Figure 5.3 illustrates a fully ducted damper. This configuration represents the lowest pressure drop of the three test configurations because entrance and exit losses are minimized by straight duct runs upstream and downstream of the damper.

Ducted inlet
AMCA Figure 5.2 illustrates a ducted damper exhausting air into an open area. This configuration has a lower pressure drop than Figure 5.5 because entrance losses are minimized by a straight duct run upstream of the damper.

Plenum mount
AMCA Figure 5.5 illustrates a plenum mounted damper. This configuration has the highest pressure drop because of extremely high entrance and exit losses due to the sudden changes of area in the system.

Air Performance
Pottorff certifies that the model FSD151 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings only.
Application

The HS-10 fire closure device employs a one-temperature, manually resettable, electric thermostat sensor to interrupt the electrical power to actuators used on fire/smoke dampers to permit the controlled closure of the dampers. The HS-10 is designed to replace the fusible link. The HS-10 allows for damper testing per all NFPA specifications. The damper will close once power is removed from the HS-10 and will automatically reopen once power is restored.

Wiring Diagram

Control Switch Function

Normal

Hot
L1

24 VAC, 120 VAC or 240 VAC Fused Circuit

Closure

Control Switch
(Optional)

Closed
Normal

By Others

Smoke Detector
(if used)

Fire Closure Device

Motor(s)/Actuator(s)

or

EP Switch

M1

The damper remains open except in either of the following situations:

1 - The smoke detector cuts the power to the "Power-Open" motor/actuator.

2 - An elevated duct temperature causes the fire closure device to cut power to the "Power-Open" motor/operator.

The damper will remain closed until the duct temperature has returned to a safe level. At that point the fire closure device can be manually reset, allowing the damper to be reopened.

Closed

The damper closes and remains closed regardless of any sensor signal.

Listings

UL 555 listing: R11767

CSFM listing: 3225-0368:110, 3225-0368:111,
3225-0368:112, 3225-0368:113,

New York City MEA listing: 295-98-E

Meets NFPA Standards: 80, 90A, 92A, 92B, 101, and 105

Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC
FSLF24(-S)(-FC) US, FSLF120(-S)(-FC) US
On/Off, Spring Return, 350°F for Half Hour, 15 Seconds Cycle Time

Application
The type FSLF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555S and UL555S when tested as an assembly with the damper and will meet requirements of UBC for 15 second opening and closing. Square footage of damper operated will depend on make and model and the temperature required.

Operation
Mounting of the actuator to the damper axle shaft or jackshaft is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

SAFETY NOTES
The actuator contains no components which the user can replace or repair. 24 VAC Connect via safety isolating transformer, Class 2 supply.

1/2" Threaded Connector
Screw a conduit fitting into the actuator’s metal bushing. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

3/8" Flex Connector (-FC models)
Mount the flexible conduit into the actuator’s metal bushing by means of the provided screw with a torque of 1.2 Nm. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

Dimensions (Inches [mm])

*Individual Fusing or Breakers are not required by Belimo.

The FSLF24 draws higher peak current when driving against any type of stop. Given the technology of fuses & breakers, this requires the value of fuse or breaker to be increased to avoid nuisance opening or tripping. A 1 amp slow blow should be used for 24VAC. A 0.25 amp slow blow should be used for 120VAC.
**Typical Applications**

The typical fire and smoke damper requires from 5-15 in-lb of torque per square foot at 250°F - 350°F under dynamic load (2000 fps velocity). The FSLF is a single section damper actuator. For the multi section dampers, use the FSNF series. This is a direct coupled actuator. If linkages are needed use the FSNF series.

![Single section for one FSLF actuator](image)

![Two section for two FSLF actuators](image)

**Typical Specification**

**Smoke Control and Combination Fire and Smoke Control Damper Actuators**

All smoke and combination fire and smoke dampers shall be provided with Belimo FSLF, FSNF, or FSAF actuators. No substitutions allowed. Damper and actuator shall have UL555S Listing for 250°F (350°F) and shall comply with UBC if required by local codes, Where proof of closure switches are required, blade switches, actuator auxiliary switches, or proximity switches are allowed.

**Replacement Applications**

The number one "equal or better" requirement for use as a replacement for obsolete defective motors is the UL555S listing of the Belimo actuator with the damper for the application. The local authority having jurisdiction sets the requirements. In some cases a permit and inspection may be required. Go to [www.belimo.us/firesmoke](http://www.belimo.us/firesmoke) for a Cross Reference from old damper actuators to Belimo. Extensive retrofit installation instructions are available, along with technical training information.

**CAUTION**

Caution must be used when replacing failed motors with new Belimo actuators. Many old motors did not have internal springs and depended on external springs on the side of the damper or wrapped around the damper shaft to close the damper. Old motor springs must be removed or disabled. Do not remove fusible link springs if they had only fire and no smoke functions.

In some cases, a BAE 16S or equal thermal sensor must be installed.

---

**Wiring Diagrams**

**INSTALLATION NOTES**

1. Provide overload protection and disconnect as required.
2. **CAUTION Equipment Damage!**
   
   Actuators may be connected in parallel.
   
   Power consumption and input impedance must be observed.
3. No ground on 24 V models
4. S4 makes to S6 when the actuator is powered open.
5. For end position indication, interlock control, fan startup, etc., FSLF24-S US and FSLF120-S US incorporate two built-in auxiliary switches.
6. Double insulated.

**WARNING Live Electrical Components!**

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

![24V 120V](image)

![Paralle Actuator Wiring](image)

**Auxiliary switch wiring for FSLF24-S US, FSLF120-S US**

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FSNF24(-S)(-FC) US, FSNF120(-S)(-FC) US

On/Off, Spring Return, 350°F for Half Hour, 15 Seconds Cycle Time

Application
The type FSNF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555S and UL555SS when tested as an assembly with the damper and will open and close in 15 seconds at 350°F. Square footage of damper operated will depend on make and model of damper and the temperature 250°F or 350°F.

Operation
Mounting of the actuator to the damper axle shaft or jackshaft (3/8" to 1.05") is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

-FC Models have the same electrical and mechanical characteristics except instead of a 1/2" conduit connector a 3/8" screw flex connector is supplied.

SAFETY NOTES
The actuator contains no components which the user can replace or repair.

1/2" Threaded Connector – Screw a conduit fitting into the actuator’s metal bushing. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

3/8" Flexible Connector Models (-FC Screw Connector) – Mount the flexible conduit into the actuator’s metal bushing by means of the provided screw with a torque of 0.9 ft-lb. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

Dimensions (inches [mm])

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<tr>
<th>Standard:</th>
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<td>0.19&quot; [5]</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional*</th>
<th>3/8&quot; to 3/4&quot;</th>
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</thead>
<tbody>
<tr>
<td>0.35&quot; [9]</td>
<td>0.35&quot; [9]</td>
</tr>
<tr>
<td>0.25&quot; [6]</td>
<td>0.25&quot; [6]</td>
</tr>
<tr>
<td>0.95&quot; [24]</td>
<td>0.95&quot; [24]</td>
</tr>
</tbody>
</table>

* with K4 US stamp

Accessories
All AF/NF linkages and parts except ZG-102 may be employed

- Individual Fusing or Breakers are not required by Belimo.

The FSNF24 draws higher peak current when driving against any type of stop. Given the technology of fuses & breakers, this requires the value of fuse or breaker to be increased to avoid nuisance opening or tripping. A 2.5A amp slow blow should be used for 24VAC. A 0.5A amp slow blow should be used for 120VAC.

Transformers
Note that while a 100VA transformer would handle 2 actuators, a 4A breaker is insufficient.
FSNF24(-S)(-FC) US, FSNF120(-S)(-FC) US
On/Off, Spring Return, 350°F for Half Hour, 15 Seconds Cycle Time

Typical Applications
Multi-section Damper Assemblies

The typical fire and smoke damper requires from 5-15 in-lb of torque per square foot at 250°F – 350°F under dynamic load (2400 rpm velocity). The FSNF will operate multi-section dampers using multiple actuators for multiple sections. Some of the methods used are shown below.

This is a direct coupled actuator. If linkages are needed use those for the FSAF series. Do not use the ZG-102 as close coupled actuators have a shortened life due to the high speed of the FSNF. Mounting at opposite ends of a jackshaft is OK.

Typical Specification
Smoke Control and Combination Fire and Smoke Control Damper Actuators

All smoke and combination fire and smoke dampers shall be provided with Belimo FSTF, FSLF, FSNF, or FSAF actuators. No substitutions allowed.

Damper and actuator shall have UL555S Listing for 250°F (350°F) and shall comply with UBC if required by local codes.

Where proof of closure switches are required, blade switches, actuator auxiliary switches, or proximity switches are allowed if permitted by local codes.

Replacement Applications

The number one “equal or better” requirement for use as a replacement for obsolete defective motors is the UL555S listing of the Belimo actuator with the damper for the application. The local authority having jurisdiction sets the requirements. In some cases a permit and inspection may be required.

Go to www.belimo.us/firesmoke for a Cross Reference from old damper actuators to Belimo. Extensive retrofit installation instructions are available, along with technical training information.

Installation Notes

CAUTION Equipment Damage!
Actuators may be connected in parallel. Power consumption and input impedance must be observed.

For end position indication, interlock control, fan startup, etc., FSNF24-S US and FSNF120-S US incorporate two built-in auxiliary switches: 2 x SPDT, 7A (2.5A inductive) @125/250 VAC, UL Approved, 10° and 85°. Switch rating is for 250°F 1/2 hour only.

WARNING Live Electrical Components!
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring Diagrams

Parallel Actuator Wiring

Auxiliary switch wiring for FSNF24-S US, FSNF120-S US

Subject to change © Belimo America, Inc.
Torque min. 18 in-lb, for control of fire and smoke dampers

Application
The type FSTF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555 and UL555S when tested as an assembly with the damper. Square footage of damper operated will depend on make and model.

Operation
Mounting of the actuator to the damper axle shaft or jackshaft is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) typically closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

SAFETY NOTE
Screw a conduit fitting into the actuator's bushing. Jacket the actuator's input and output wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>FSTF120(-S) US</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>nominal 120 VAC, 60 Hz</td>
</tr>
<tr>
<td>tolerance</td>
<td>108 to 132 VAC, 60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>running 2 W, 3.5 VA</td>
</tr>
<tr>
<td></td>
<td>holding 1.5 W, 2.5 VA</td>
</tr>
<tr>
<td>max. inrush current</td>
<td>2.1 A</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>3 ft, 18 G4 appliance cable</td>
</tr>
<tr>
<td>(-5 models have 2 cables)</td>
<td>1/2&quot; conduit connector</td>
</tr>
<tr>
<td>Overload protection</td>
<td>electronic throughout 0 to 95° rotation</td>
</tr>
<tr>
<td>Electrical protection</td>
<td>actuators are double insulated</td>
</tr>
<tr>
<td>Angle of rotation</td>
<td>max 95°, adjust with mechanical stop</td>
</tr>
<tr>
<td>Torque</td>
<td>min. 18 in-lb [2 Nm]</td>
</tr>
<tr>
<td>Direction of rotation</td>
<td>reversible withcw/cw mounting</td>
</tr>
<tr>
<td>Position indication</td>
<td>visual indicator: 0° to 95° (0° = spring return position)</td>
</tr>
<tr>
<td>Running time:</td>
<td>motor &lt; 75 sec (0 to 18 in-lb)</td>
</tr>
<tr>
<td></td>
<td>spring &lt; 25 sec @32°F to 122°F [0°C to 50°C]</td>
</tr>
<tr>
<td>Humidity</td>
<td>5 to 95% RH non-condensing</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>32°F to 122°F [0°C to 50°C]</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>Up to 250°F for 1/2 hour per UL555S test</td>
</tr>
<tr>
<td>Housing</td>
<td>NEMA type 2 / IP42, UL enclosure type 2</td>
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<tr>
<td>Housing material</td>
<td>UL94-V0, UL2043 Listed for plenum use</td>
</tr>
<tr>
<td>Agency listings†</td>
<td>ULcUS acc. to UL60730-1A/2-14, CAN/CSA E60730-1A/2, UL2043 smoke rated</td>
</tr>
<tr>
<td>Noise level (max)</td>
<td>running &lt; 50 db (A)</td>
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<tr>
<td></td>
<td>spring return 62 db (A)</td>
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<tr>
<td></td>
<td>holding inaudible</td>
</tr>
<tr>
<td>Servicing</td>
<td>maintenance free</td>
</tr>
<tr>
<td>Quality standard</td>
<td>ISO 9001</td>
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<tr>
<td>Weight</td>
<td>FSTF120 US 1.26 lbs (0.57 kg)</td>
</tr>
<tr>
<td></td>
<td>FSTF120-S US 1.5 lbs (0.68 kg)</td>
</tr>
</tbody>
</table>

† Rated Impulse Voltage 40kV. Type of action 1AA (1AA-B for -5 version). Control Pollution Degree 3.

FSTF120-S US
Auxiliary switch
2 x SPST 3A (0.5A) @ 120 VAC, UL approved
One fixed at 10° and one fixed at 80°
FSTF120(-S) US
On/Off, Spring Return, 120 VAC

Accessories

<table>
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<tr>
<th>Tool</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Tool-06</td>
<td>8mm and 10 mm wrench</td>
</tr>
<tr>
<td>KH-TF</td>
<td>Crank arm for up to 1/2&quot; round shaft</td>
</tr>
<tr>
<td>ZG-TF2</td>
<td>Crank arm adaptor kit for FSTF</td>
</tr>
<tr>
<td>ZG-TF112</td>
<td>Mounting bracket, kit for FSTF</td>
</tr>
<tr>
<td>ZS-100</td>
<td>Weather shield (metal)</td>
</tr>
<tr>
<td>ZS-150</td>
<td>Weather shield (polycarbonate)</td>
</tr>
<tr>
<td>10379-00001</td>
<td>Limit stop</td>
</tr>
</tbody>
</table>

NOTE: When using FSTF120 US and FSTF120-S US actuators, only use accessories listed on this page or those provided by damper manufacturers.
For actuator wiring information and diagrams, refer to Belimo Wiring Guide.

Typical Specification

On/Off fire and smoke spring return damper actuators shall be direct coupled type which require no crank arm and linkage and be capable of direct mounting to a shaft up to a 1/2" diameter and center a 1/2" shaft. The actuators must be designed so that they may be used for either clockwise or counterclockwise fail-safe operation. Actuators shall be protected from overload at all angles of rotation. If required, two SPDT auxiliary switches shall be provided. Actuators shall be cULus listed and have a 5 year warranty, and be manufactured under ISO 9001 International Quality Control Standards. Actuators shall be as manufactured by Belimo.

Wiring Diagrams

**INSTALLATION NOTES**

- Provide overload protection and disconnect as required.

**CAUTION Equipment Damage!**

Actuators may be connected in parallel. Power consumption must be observed.

- Two SPST auxiliary switches for position indication. NC switch opens at 10° and NO switch closes at 80°

**APPLICATION NOTES**

- Meets cULus requirements without the need of an electrical ground connection.

**WARNING Live Electrical Components!**

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

120 VAC

1. White Neutral
2. Black Hot

FSTF120 US

On/Off wiring for FSTF120 US

120 VAC

1. White Neutral
2. Black Hot

FSTF120-S US

S1 - Violet
S2 - NC Red
10°
S4 - Orange
S6 - NO Gray
80°
VNTE TRAY CABLE -#16AWG NONSHIELDED
TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL
TFN CONDUCTORS, PVC JACKET, 600VOLTS, UL 1277

CONSTRUCTION:

| CONDUCTOR | SOFT DRAWN STRANDED BARE COPPER PER ASTM B-3. |
| INSULATION | POLYVINYLCHELORIDE WITH NYLON JACKET TYPE TFN PER UL 62 (GASOLINE AND OIL RESISTANT). |
| CONDUCTOR IDENTIFICATION | INSULATED CONDUCTORS ARE COLOR CODED PER IEC METHOD 1 TABLE E-2. |
| ASSEMBLY | CONDUCTORS ARE CABLED TOGETHER WITH SUITABLE TAPE SEPARATOR AS NEEDED. |

OVERALL JACKET: SUNLIGHT RESISTANT, FLAME RETARDANT BLACK PVC PER UL 1277, WHICH PROTECTS AGAINST HEAT, FLAME, CHEMICALS, MOISTURE, AND MECHANICAL DAMAGE.

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<th>Nylon Thickness (in.)</th>
<th>Jacket Thickness (in.)</th>
<th>Overall Diameter (in.)</th>
<th>Approx. Net Wt. (Lbs/Mft)</th>
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<td>.99&quot;</td>
<td>712</td>
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</table>

*2/3 is flat construction and TC only. TC-ER rating applies to 3 conductors or more.

APPLICATION:
Control, Signal, or Lighting circuits rated 600Volts. May be used as sunlight resistant, directly buried, and wet or dry locations. Per NEC Articles 336 and 392, approved for installation in:
1) raceways and cable tray systems including ladders, troughs, channels, solid bottom trays, and other similar structures,
2) lighting, control, and signal circuits,
3) aerial locations where supported by a messenger wire,
4) hazardous locations per Art.501 Class 1 Division 2, and
5) Class 1 circuits as permitted in NEC Article 725.

STANDARDS:
UL Standard 1277 for Type TC Cables.
Passes UL and IEE383 70,000BTU Flame Test.
UL Standard 62 for TFN Conductors.
NEC Articles 336 and 392 for Tray Cable uses and constructions.
TC-ER rated cables comply with crush and impact requirements of MC cables.
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 169
Contract: Construction

Description of work to be performed: Cleanout for Floor Drain Relocation RFI 452

This change is associated with the labor and materials associated the relocation of the cleanouts for the second floor. Original design showed all cleanouts to be placed in the ceiling of the L1, however this would have required multiple access points. Due to esthetics for L1 ceiling and functionality the cleanouts were moved to the L2 slab.

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error
(Let Indicate Reason for Change Proposal)

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $9,382.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Approved:
Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
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<tbody>
<tr>
<td>To change floor drain locations per RFI 452.</td>
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<table>
<thead>
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<th>Reason:</th>
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<tr>
<td>Owner Directive</td>
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<td>Code / Regulatory</td>
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<tr>
<td>Unforeseen Condition</td>
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<td>Design Issue</td>
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<tr>
<td>ROM Estimate of GR's &amp; Insurances</td>
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<tr>
<td>ROM Estimate for Entire PCO</td>
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<tr>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
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<th>Time Impact:</th>
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<tr>
<td>Evaluating Potential for Time Impact</td>
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<tr>
<td>Evaluated - NO TIME IMPACT</td>
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<tr>
<td>TBD Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
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<table>
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<tr>
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<tr>
<td>Work has been Completed</td>
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<tr>
<td>Work Has Commenced &amp;/or is Ongoing</td>
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<table>
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<tbody>
<tr>
<td>Turner Brownstone</td>
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<tr>
<td>Walter Lewis Project Engineer</td>
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<th>Requested Action:</th>
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<td>A3</td>
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**A4** SUBTOTAL TRADE DIRECTS $8,552

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**ESTIMATE TOTAL** $9,382
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Date: November 11, 2020

Attn: AJ LoDato
Walter Lewis
Turner Construction

Project Name: IAAM
Project Number: 04-19-005

CR HIPP Reference: PCO # 011
Project Reference: Floor Cleanouts

Scope:
This change order proposal provides a price to relocate floor cleanouts on from L1 ceiling to L2 slab and L2 ceiling to L3 for the above referenced project per the detail takeoff and pricing of the attached takeoff.

Total Net Add $8,552.00

Thank you for the opportunity to offer this Proposal. If there are any questions, please contact our office.

Sincerely,
Vance Bailey
Assistant Project Manager
C.R. Hipp Construction, Inc.
(843) 744-4477
C. R. HIPP CONSTRUCTION COMPANY  
COST DETAIL  

To: Turner Construction Company  
Job No.: 04-19-005  

Attn: Walter Lewis  
Contract No.: 47001126016  

Project: International African American Museum  
Date: 11/10/2020  

Subj: Floor Cleanouts  
COR No.: 11  

MATERIAL AND EQUIPMENT COST  
A. Material $2,844.78  
B. Equipment $0.00  
C. Miscellaneous material 10.00% of A $284.48  
D. Escalation 0.00% of A & C $0.00  
E. Subtotal $3,129.26  
F. Sales Tax 9.00% $281.63  
G. TOTAL $3,410.89  

LABOR COST  
A. Labor - Plumbers 60.00 Hours at Rate $32.64 per hour. $1,958.40  
B. Labor - Sheetmetal 0.00 Hours at Rate $32.64 per hour. $0.00  
C. Labor - Pipefitter 0.00 Hours at Rate $32.64 per hour. $0.00  
D. Labor - Welder 0.00 Hours at Rate $32.64 per hour. $0.00  
B. Foreman 8.00 Hours at Rate $35.72 per hour. $285.76  
C. Superintendent 4.00 Hours at Rate $50.75 per hour. $203.00  
D. Project Manager 0.00 Hours at Rate $48.78 per hour. $0.00  
E. CAD / BIM 0.00 Hours at Rate $48.00 per hour. $0.00  
F. Subtotal $2,447.16  
G. Insurance and Taxes 42.00% $1,027.81  
H. Site Overhead 0.00% of field labor cost. $0.00  
I. Efficiency 0.00% of field labor cost. $0.00  
J. TOTAL $3,474.97  

OTHER COST  
A. Rental Equipment $0.00  
B. Small Tool Expense 3.00% of field labor. $104.25  
C. Blueprint Reproduction $0.00  
D. Engineering $0.00  
E: Operations on More Than One Floor 0.00% of field labor. $0.00  
F: Excavation and Backfill 0 cu.yds.at $0.00 per cu.yd. $0.00  
G: Clean up 5.00% of field labor. $173.75  
H: Distribution of Materials 5.00% of field labor. $173.75  
I. TOTAL $451.75
This change will require a 2 day time extension to complete contract.

This change proposal covers only direct costs associated with the change order work described above. We reserve the right to assess the impact of this change at a later date and to submit these cost as they become known. It is anticipated that all work required by this change will be done on a straight time basis. Overtime work, if required, will be invoiced as an additional item.

Please advise as soon as possible if we are to proceed.
Please refer to Invoice Number when making payment and remit to:  
FERGUSON ENTERPRISES LLC #34  
PO BOX 100286  
ATLANTA, GA 30384-0286

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**Ordered Shipped Item Number Description Unit Price UM Amount**  
1 1 ZZ14004NL 4 NL LVL TROL ADJ FLR CO W/ CI TOP 104.250 EA 104.25  
1 1 ZZ14006NL 6 NL LVL TROL ADJ FLR CO W/ CI TOP 181.500 EA 181.50  
1 1 SP632436*23 1078.480 1078.48  
1 1 SP632436*23 1078.480 1078.48

5 5 DNHWBCU 6 HUSKY HD 2000 NH COUP 14.313 EA 71.57

**Invoice Sub-Total** 2514.28  
**Freight** 39.99  
**Tax** 229.88  
**Total Amt** 2784.15

---

**TOTAL DUE ---›** 2784.15

---

All accounts are due and payable per the conditions and terms of the original invoice. All past due amounts are subject to a service charge at the maximum rate allowed by state law plus costs of collection including attorney fees if incurred. Freight terms are for our dock unless otherwise specified above. Complete terms and conditions are available upon request or can be viewed on the web at https://www.ferguson.com/content/website-info/terms-of-sale

**GOVT BUYERS:** All items quoted are open market unless noted otherwise. Complete terms and conditions are available upon request or can be viewed on the web at https://www.ferguson.com/content/website-info/terms-of-sale

**LEAD LAW WARNING:** It is illegal to install products that are not "lead free" in accordance with US federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are not lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.
Vance Bailey

From: Chris Brinson
Sent: Tuesday, November 3, 2020 11:56 AM
To: D21.SouthCommercial@Ferguson.com; Joey Nelson; Scott.Windsor@Ferguson.com; Avery.Harbour@Ferguson.com
Cc: Joshua Carter; Vance Bailey
Subject: Re: IAAM - RFI 508 Move Cleanouts to 3rd floor

thanks ,

SILENCE IS ACCEPTANCE

-------- Original message --------
From: D21.SouthCommercial@Ferguson.com
Date: 11/3/20 11:42 AM (GMT-05:00)
To: Chris Brinson <chris.brinson@crhippconstruction.com>, Joey Nelson <joey.nelson@crhippconstruction.com>, D21.SouthCommercial@Ferguson.com, Scott.Windsor@Ferguson.com, Avery.Harbour@Ferguson.com
Cc: Joshua Carter <joshua.carter@crhippconstruction.com>, Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

Chris,

They were waiting on the sani-flor so they could ship all together. I told them to go ahead and get what they have coming. So we should definitely expect the 1400’s here tomorrow sometime now.

Thank you,

Nick Baird
Inside Sales I
South Commercial Team
Ferguson Enterprises, Inc. – Carolinas District
P: (843) 460-1769  F: (843) 554-8799
E: southcommercial@ferguson.com
www.ferguson.com

The Ferguson app is out NOW!  CLICK HERE TO DOWNLOAD

*If you do not already have an account with ferguson.com, click here to register.*
From: Chris Brinson <chris.brinson@crhippconstruction.com>
Sent: Tuesday, November 3, 2020 11:06 AM
To: Joey Nelson <joey.nelson@crhippconstruction.com>; Nicholas Baird <Nick.Baird@ferguson.com>; D21 South Commercial [Ferguson] <D21.SouthCommercial@Ferguson.com>; Scott Windsor <Scott.Windsor@Ferguson.com>; Avery Harbour <Avery.Harbour@Ferguson.com>
Cc: Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

How come we get these that quick and the ones I ordered on 10/28/2020 are still not here,

From: Joey Nelson <joey.nelson@crhippconstruction.com>
Sent: Tuesday, November 3, 2020 9:24 AM
To: Nick.Baird@ferguson.com; D21.SouthCommercial@Ferguson.com; Scott.Windsor@Ferguson.com; Avery.Harbour@Ferguson.com
Cc: Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

15605-19-005

Thank you.

V/R,

Joey Nelson
Project Manager II
Office: 843-744-4477
Mobile: 843-364-9276

From: Nick.Baird@ferguson.com <Nick.Baird@ferguson.com>
Sent: Tuesday, November 03, 2020 9:10 AM
To: Joey Nelson <joey.nelson@crhippconstruction.com>; D21.SouthCommercial@Ferguson.com; Scott.Windsor@Ferguson.com; Avery.Harbour@Ferguson.com
Cc: Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

Joey,

They will show up to your shop tomorrow UPS.
Let me know a PO whenever you can! Thanks!

Thank you,

Nick Baird
Order Confirmation # 7304829

FERGUSON ENTERPRISES LLC #23
4711 RIVERS AVE
N CHARLESTON, SC 29405-6645

Phone: 843-747-6301
Fax: 843-554-8799

Order No...: 7304829
Order Date: 11/03/20
Dealer.........: NJB
Sold To......: C R HIPP CONSTRUCTION
              PO BOX 71147
              MAIN ACCOUNT
              IAAM-AFRICAN AMERICAN MUSEUM
              N CHARLESTON, SC 29415
Cust PO#...: RFI 508
Job Name.: IAAM-AFRICAN AMERICAN MUS

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<th>Description</th>
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<th>Net Price</th>
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<td>ZZ14004NH</td>
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Subtotal: $290.51
Inbound Freight: $0.00
Tax: $26.15
Order Total: $316.66
**WARRANTY PROVISIONS**

The purchaser's sole and exclusive warranty is that provided by the manufacturer, if any. Seller makes no express or implied warranties. SELLER DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL SELLER BE LIABLE FOR ANY INCIDENTAL, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE OPERATION OR USE OF THE PRODUCT. SELLER'S LIABILITY, IF ANY, SHALL BE LIMITED TO THE NET SALES PRICE RECEIVED BY SELLER. Complete Terms and Conditions are available upon request or can be viewed on the web at [https://www.ferguson.com/content/website-info/terms-of-sale](https://www.ferguson.com/content/website-info/terms-of-sale)

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**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**
Enter the following link to complete a survey about your orders:

*If you do not already have an account with [ferguson.com](http://ferguson.com), click [here](http://ferguson.com) to register.*

**Have a Ferguson account? Download the Ferguson app for on-the-go access to your favorite [ferguson.com](http://ferguson.com) features. [Apple iOS devices](http://www.ferguson.com) or [Android devices](http://www.ferguson.com)**

---

**From:** Joey Nelson <joey.nelson@crhippconstruction.com>

**Sent:** Tuesday, November 3, 2020 7:38 AM

**To:** D21 South Commercial [Ferguson] <D21.SouthCommercial@Ferguson.com>; Scott Windsor <Scott.Windsor@Ferguson.com>; Nicholas Baird <Nick.Baird@ferguson.com>; Avery Harbour <Avery.Harbour@Ferguson.com>

**Cc:** Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>

**Subject:** FW: IAAM - RFI 508 Move Cleanouts to 3rd floor

**Importance:** High

Good Morning,

We need to order the following as soon as possible….

2-4” Z1400 NH FLOOR CLEAN OUTS

V/R,

Joey Nelson

Project Manager II

Office: 843-744-4477

Mobile: 843-364-9276

---

**From:** Chris Brinson <chris.brinson@crhippconstruction.com>

**Sent:** Monday, November 02, 2020 3:53 PM
To: Joey Nelson <joey.nelson@crhippconstruction.com>
Cc: Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

Per change, need this asap, thanks
2-4” Z1400 NH FLOOR CLEAN OUTS

From: Joey Nelson <joey.nelson@crhippconstruction.com>
Sent: Monday, November 2, 2020 2:09 PM
To: Chris Brinson <chris.brinson@crhippconstruction.com>; Chris Dangerfield <chris.dangerfield@crhippconstruction.com>
Cc: Tim Cox <tim.cox@crhippconstruction.com>
Subject: IAAM - RFI 508 Move Cleanouts to 3rd floor

Chris,
Per attached RFI 508 clean outs in the overhead of the lobby of 2nd floor are to be routed up to the floor of the 3rd floor. Attached drawing shows locations.

V/R,
Joey Nelson
Project Manager II
Office: 843-744-4477
Mobile: 843-364-9276
MEP - Confirmation of Cleanouts on L2 slab

TO: Bernard Costantino (Moody Nolan)
    Julie Cook, AIA (Moody Nolan)
FROM: Daron Pardine (Turner Construction (ATL))
    Charleston, South Carolina
DATE INITIATED: 10/01/2020
LOCATION: 
PROJECT STAGE: 
SUB JOB: 
COST IMPACT: 
DRAWING NUMBER: 
LINKED DRAWINGS: 
RECEIVED FROM: Daron Pardine (Turner Construction (ATL))
COPIES TO: Sarah Aarons (ARUP), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Alex Nash (Turner Construction (CAR)), Jonathan Roberts (Cumming), Stephanie Terault (ARUP)
STATUS: Open
DUE DATE: 10/16/2020
COST CODE: 
SCHEDULE IMPACT: 
SPEC SECTION: 
REFERENCE: 

Question from Daron Pardine (Turner Construction (ATL)) at 04:39 PM on 10/01/2020

As discussed and reviewed through the L1 ceiling drawings, it is our understanding that the cleanouts that would require access panels in the L1 Sto ceiling are to be relocated to the L2 slab to be accessible from above and delete the requirement for access through the ceiling.

Please confirm.

Awaiting an Official Response

All Replies:

CONFIRMED. TB TO COORDINATE CLEANOUT WITH FLOORING CONTRACTORS FOR OPTIONS FOR COVERS.
Subject: (HOT) MEP - Plumbing | Cleanout Locations Shift to L3

Information Requested:
Per the attached markup, there would be 2 access panels in the lobby that are required to access cleanouts for the sanitary system.

We suggest moving these cleanouts up to L3 similar to what we did on L1/L2.

Please confirm this is acceptable.

Responses

Joel Ramos - Plumbing

Arup have no objection with the proposed location of cleanout in the 3rd floor level mechanical room. Install cleanout per requirement of the code. Coordinate all cleanout locations with Architect.

MN agrees to move to 3rd floor mechanical room.
Change Order Proposal Review Form

To: Edmund V. Most  From: Mike Risteski
Project: CP 1425 International African American Museum  Project No.: CP 1425
Date: 2/24/2022  Proposal No.: Change Order Request No. 171
Contractor: Turner Construction Company  Contract: Construction

Description of work to be performed: Pumphouse Sidewalk

A - Customer Requested Change

This change is associated with the materials and the labor for the removal of the old sidewalk in front of the pumphouse and replacing it with new sidewalk. The existing sidewalk slopes were no longer within the code requirements.

B - Code/Regulatory Agency Required Change

C - Errors and Omissions

D - Replacing Unsuitable Soils

E - Soils Related Change Other

F - Unforeseen Conditions

G - Time Related Change

H - Liquidated Damages

I - Value Engineering Change

J - Exercising Pre-Priced Option (Allowance)

K - Accounting Error

(Indicate Reason for Change Proposal)

Justification: A - Customer Requested Change

Attachments:

J&A from Project Manager

Independent Cost Estimate

Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)

Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $10,466.00

Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Decision needed by: February 24, 2022

Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | To demo out the old and install a new sidewalk at the Front (West) elevation of the pump house tying the new sidewalks. |

| Reason: | Owner Directive |

| Pricing: | Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates |

| Time Impact: | Evaluated - NO TIME IMPACT |

| Submitted By: | Contractor: TURNER BROWNSTONE |

| Reviewed By: | Program Manager: CUMMING |

| Approved By: | Owner: City of Charleston |

| Amount Requested | $ 10,466 |

| Amount Approved | $ 10,466 |
# International African American Muesum

## General Summary of the Estimate

**COR No.:** 171

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tr>
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<td>A4</td>
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<td>CCIP @ 2.50%</td>
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<td>Procore @ 0.04500%</td>
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**ESTIMATE TOTAL** $10,466
### General Requirements (GR's) & General Conditions (GC's)

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<th>RATE</th>
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### Trade Directs

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<tr>
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**Direct Work Subtotal** $9,668
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<th>UOM</th>
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<th>NOTES</th>
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<tr>
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<td>Concrete Demo</td>
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**BID SUMMARY**

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<td>Demo &amp; Repour Pumphouse Sidewalks &amp; Curb</td>
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|                       |            |             |
|                       | $0.00      | $9,668.41   |

|                       |            |             |
|                       | $9,668.41  |             |

|                       |            |             |
|                       | $9,668.41  |             |

Client Signature: ____________________________ Date: ______________
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 173

**Description of work to be performed:**  
Plant Changes per City Recommendations  
This change is associated with the materials and labor for the changes of the planting as per the city recommendations.

**Justification:**  
A - Customer Requested Change

**Attachments:**  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

**Proposal Cost (not to exceed):** $7,794.00  
**Owner Contingency Allow. Bal.:**

**Time Extension Requested:**

**Time Extension Recommended:**

**Decision needed by:** February 24, 2022

**Comments by Supervisor:**

**Approved:**  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | To install the 15 gallon Plants single row hedge on the West side of the building. |

|----------------------------------|----------------------------------|

| Pricing: ROM Estimate of GR's & Insurances ROM Estimate for Entire PCO Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates |
|----------------------------------|----------------------------------|

| Time Impact: Evaluating Potential for Time Impact Evaluated - NO TIME IMPACT Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis) |
|----------------------------------|----------------------------------|

| Work has been Completed Work Has commenced &/or is Ongoing Work Authorization is Requested By: |
|----------------------------------|----------------------------------|

| Submitted By: Walter Lewis Project Engineer 11/17/2021 |
|----------------------------------|----------------------------------|

| Amount Requested: $7,794 |
|----------------------------------|----------------------------------|

| Contractor: TURNER BROWNSTONE |
|----------------------------------|----------------------------------|

| Requested Action: Authorized to Proceed While Pricing Price Only Do Not Proceed or Price |
|----------------------------------|----------------------------------|

| Authorized Action: Authorized to Proceed While Pricing Price Only Do Not Proceed or Price |
|----------------------------------|----------------------------------|

| Approved By: Edmund Most |
|----------------------------------|----------------------------------|

<p>| Amount Approved: $7,794 |
|----------------------------------|----------------------------------|</p>
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<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>A7</td>
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<tr>
<td>A8</td>
<td>CCIP</td>
<td>2.50% = $180.00</td>
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<td>A9</td>
<td>Subguard</td>
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<td>Builders Risk</td>
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<td>Performance and Payment Bond</td>
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**SUBTOTAL** $7,200

**ESTIMATE TOTAL** $7,794
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

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### TRADE DIRECTS

#### DESCRIPTION

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<td>$ 7,200.00</td>
<td>1 LS</td>
<td>7,200.00</td>
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<td>To Demo old sidewalk and install a new sidewalk</td>
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COR No.: 173
International African American Museum  
Tucker Abbott  
4601 Park Road, Suite 601  
Charlotte, NC 28209

RE: CO Podocarpus Adds in Front

Proposal Summary:

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit Type</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Item Price</th>
<th>Total</th>
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</thead>
</table>
| PODOCARPUS OPTION 2 SINGLE HEDGE IN FRONT  
Plant Installation  
*Podocarpus - Installed* | 15 gal  | 60.00    | $120.00    | $7,200.00  | $7,200.00 |

The Greenery, LLC agrees to guarantee all plants, which are covered by an automatic sprinkler system for one full year. Plants not covered by a sprinkler system are guaranteed to be healthy and properly planted at the time of installation. Guarantee shall not apply to plants the loss of which is due to abuse, vandalism, animal, fire, lightning, hail, vehicular damage, freeze or Acts of God. The Greenery, LLC does not guarantee the life of transplanted plants.

The Greenery, LLC is not responsible for damage to underground irrigation lines, pipes, wiring, invisible fencing, or lighting systems whose locations are not marked by homeowner or property manager prior to work beginning.

Prices quoted will be honored for 30 days from date of proposal.

Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. A signed copy of this proposal will be returned as my authorization to do the work as specified.

Signature __________________________ Date __________________

Subtotal $7,200.00
Sales Tax (9.00%) $0.00
Total $7,200.00
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 174
Contract: Construction

Description of work to be performed: Raise of Serpentine Walls

This change is associated with the labor and materials for the raising of the serpentine walls in front of the substations and the fountain equipment. The original wall height was not able to cover all of the additional equipment as planned per the design drawings. To keep the design intent, the 2 middle serpentine walls had to increase in height.

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error

(Indicate Reason for Change Proposal)

Justification: F - Unforeseen Conditions

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)
- Cost Estimate (Expected to Exceed $10,000)
- Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $12,992.84
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

(No) (Yes)
(Circle One)

Approved:
Rick Holt, Cumming Corp.

Decision needed by: January 10, 2022

(No) (Yes)
(Circle One)

Mike Risteski, Cumming Corp.

(No) (Yes)
(Circle One)

Robert Faust, Cumming Corp.

(No) (Yes)
(Circle One)

Edmund V. Most, City of Charleston

(No) (Yes)
(Circle One)

Bernard Costantino, Moody Nolan
Mike,

Per the as-builts the walls around the substations are equal amount high as the substation so we are essentially at the correct elevation. I provided the AS-Builts yesterday.

Thanks
Walt

Hi Walt,

I do not disagree that the change of the wall height at this time is a change for the mason. However, I do not believe that the cost should be covered by the owner. The substations were installed at a height different from what the contract drawings were indicating. It is greatly appreciated that you have increased the elevation of the substations so they are above the flood plain, however the same should have been done with the footing height of the serpentine walls since the entire design intent was for the walls to cover and hide the substations.

Thank You

MIKE RISTESKI, PMP
Project Manager
The information contained in this electronic message is confidential. If the reader of this message is not the intended recipient, you are hereby notified that any use, dissemination, distribution or reproduction of this communication is strictly prohibited. If you have received this communication in error, please delete it immediately and please advise the sender.

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Monday, November 1, 2021 4:16 PM
To: Mike Risteski <mristeski@cumming-group.com>
Subject: FW: Price to raise walls 2 and 3

EXTERNAL EMAIL :  Use caution with any response, links, or attachments.

Revised Price to raise the two middle walls after all walls are repaired.

From: Will Patterson <wpatterson@patconind.com>
Sent: Monday, November 1, 2021 3:04 PM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: Price to raise walls 2 and 3

EXTERNAL EMAIL - Please Handle Cautiously

Total price is $12,992.84.

Will Patterson
Project Manager
803-315-9998
803-783-4123
PatCon Industries
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  

Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Proposal No.: Change Order Request No. 175  

Description of work to be performed: Added Trench Drain to Memorial Wall Walkway  

This change is associated with the labor and materials associated with the scope of adding a trench drain to the memorial wall walkway to the furthest west point. The original design drawings show a circular drain in the middle of the path. Once the walkway was completed it was decided that a new drain was needed to the most west point of the walkway.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Proposal Cost (not to exceed): $8,346.00  
Owner Contingency Allow. Bal.  

Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Approved: Rick Holt, Cumming Corp.  

Decision needed by: February 24, 2022  

Mike Risteski, Cumming Corp.  

Edmund V. Most, City of Charleston  

Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
To supply and install a new trench drain in the Wood Walk way to allow water to be removed from the sub slab area.

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [x] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [ ] Evaluating Potential for Time Impact
- [x] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

**Submitted By:**
**Contractor:** **TURNER BROWNSTONE**

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<th>Submitted By:</th>
<th>Contractor: <strong>TURNER BROWNSTONE</strong></th>
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**Reviewed By:**
**Program Manager:** **CUMMING**

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<th>Program Manager: <strong>CUMMING</strong></th>
<th>/ / Dated</th>
<th>Work Authorization is Requested By:</th>
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**Approved By:**
**Owner:** **City of Charleston**

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<th>Owner: <strong>City of Charleston</strong></th>
<th>/ / Dated</th>
<th>Total Amount Approved: $8,346</th>
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**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price
## International African American Muesum
General Summary of the Estimate

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<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>MATERIAL(S) &amp; EQUIPMENT $0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$7,710.00</td>
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A4 SUBTOTAL TRADE DIRECTS $7,710.00
A5
A6
A7
A8 CCIP @ 2.50% = $192.75
A9 Subguard @ 0.012 = $92.52
A14 Builders Risk @ 0.84% = $64.76
A11 Performance and Payment Bond 0.00732 = $56.44
A14 Procore @ 0.04500% = $3.47
A15 Overhead and Profit (Taken of of Direct work cost) @ 3.25% = $226.33

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<th>$7,710</th>
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</tr>
</tbody>
</table>

ESTIMATE TOTAL $8,346
## GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$0</td>
</tr>
</tbody>
</table>

## TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 To Demo old sidewalk and install a new sidewalk</td>
<td>$7,710.00</td>
<td>LS</td>
<td>1</td>
<td>$7,710.00</td>
<td></td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** $7,710

**COR No.:** 175
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Estimated Quantity</th>
<th>Unit</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' Trench Drain Under Boardwalk</td>
<td>1.00</td>
<td>LS</td>
<td>$7,709.64</td>
</tr>
</tbody>
</table>

**Total Bid Price:** $7,709.64

**Notes:**
- See attached backup.

**ACCEPTED:**
The above prices, specifications and conditions are satisfactory and are hereby accepted.

**Buyer:**

**Signature:**

**Date of Acceptance:**

**CONFIRMED:**

**Gulf Stream Construction Company Inc**

**Authorized Signature:**

**Estimator:** Ken Allen
(843) 409-5914 kallen@gulfstreamconstruction.com
# Cost Detail With Pricing

**Project Name:** IAAM - COR37 - Addtional Trench Drain  
**Job Number:** 191400.  
**Bid As:** Subcontractor  
**Estimator:** Ken Allen  
**Project Address:** 14 Wharfside Street, Charleston, SC  
**Completion Date:**  

**Customer:** Turner Construction Company  
**Billing Address:** 4601 Park Road, Suite 601  
**Contact:** Bobby Teachey  

## Pay Items

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>UM</th>
<th>Direct Cost</th>
<th>Total Direct Cost</th>
<th>Unit Price</th>
<th>Total Price</th>
<th>Markup Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6' Trench Drain Under Boardwalk</strong></td>
<td>1.00</td>
<td>LS</td>
<td>$6,539.95</td>
<td>$6,539.95</td>
<td>$7,709.64</td>
<td>$7,709.64</td>
<td>15.00%</td>
</tr>
<tr>
<td>Demo Concrete (0.22 LS/PH, 0.50 DY)</td>
<td>1.00</td>
<td>LS</td>
<td>$1,550.44</td>
<td>$1,550.44</td>
<td></td>
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</tr>
<tr>
<td>Foreman</td>
<td>5.00</td>
<td>HR</td>
<td>$68.82</td>
<td>$344.08</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Grade Oper II</td>
<td>5.00</td>
<td>HR</td>
<td>$40.32</td>
<td>$201.59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator II</td>
<td>5.00</td>
<td>HR</td>
<td>$33.54</td>
<td>$167.69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator Laborer II [2]</td>
<td>5.00</td>
<td>HR</td>
<td>$28.40</td>
<td>$142.02</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loader</td>
<td>5.00</td>
<td>HR</td>
<td>$75.11</td>
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</tr>
<tr>
<td>Mini Hoe HP</td>
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<td>HR</td>
<td>$35.50</td>
<td>$177.50</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Install Trench Drain (0.22 LS/PH, 0.50 DY)</td>
<td>1.00</td>
<td>LS</td>
<td>$2,549.79</td>
<td>$2,549.79</td>
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</tr>
<tr>
<td>Excavator With Hammer</td>
<td>20.00</td>
<td>HR</td>
<td>$77.62</td>
<td>$1,552.40</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Foreman</td>
<td>5.00</td>
<td>HR</td>
<td>$68.82</td>
<td>$344.08</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Grade Oper II</td>
<td>5.00</td>
<td>HR</td>
<td>$40.32</td>
<td>$201.59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator II</td>
<td>5.00</td>
<td>HR</td>
<td>$33.54</td>
<td>$167.69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator Laborer II [2]</td>
<td>5.00</td>
<td>HR</td>
<td>$28.40</td>
<td>$142.02</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trench Drain 3&quot; And Decorative Grate (FORTILINE)</td>
<td>6.00</td>
<td>LF</td>
<td>$149.39</td>
<td>$896.33</td>
<td></td>
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</tr>
<tr>
<td>PVC 2&quot; Pipe</td>
<td>20.00</td>
<td>LF</td>
<td>$2.17</td>
<td>$43.40</td>
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<tr>
<td>Trench Drain (Pour In Place)</td>
<td>1.00</td>
<td>CY</td>
<td>$1,500.00</td>
<td>$1,500.00</td>
<td></td>
<td></td>
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</tr>
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</table>

## Indirect Items

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>UM</th>
<th>Indirect Cost</th>
<th>Total Indirect Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business License</td>
<td>1.00</td>
<td>LS</td>
<td>$26.40</td>
<td>$26.40</td>
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</table>
## Direct Cost Totals

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>Percent of Direct Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>$1,994.77</td>
<td>30.50%</td>
</tr>
<tr>
<td>Equipment Owned</td>
<td>$2,105.45</td>
<td>32.19%</td>
</tr>
<tr>
<td>Equipment Rented</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Purchased</td>
<td>$939.73</td>
<td>14.37%</td>
</tr>
<tr>
<td>Subcontracted</td>
<td>$1,500.00</td>
<td>22.94%</td>
</tr>
<tr>
<td>Trucking Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Hired</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Plug</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td><strong>Direct Cost</strong></td>
<td><strong>$6,539.95</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Indirect Cost Totals

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>Percent of Indirect Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Equipment Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Equipment Rented</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Purchased</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Subcontracted</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Hired</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$26.40</td>
<td>100.00%</td>
</tr>
<tr>
<td>Plug</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td><strong>Indirect Cost</strong></td>
<td><strong>$26.40</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Pay Item Summary

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>Percent of Bid Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Direct Cost</td>
<td>$6,539.95</td>
<td>84.83%</td>
</tr>
<tr>
<td>Total DC Adds/Cuts</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Total Indirect Cost</td>
<td>$26.40</td>
<td>0.34%</td>
</tr>
<tr>
<td><strong>Total Bond</strong></td>
<td><strong>$137.69</strong></td>
<td>1.79%</td>
</tr>
<tr>
<td><strong>Total Overall Cost</strong></td>
<td><strong>$6,704.04</strong></td>
<td>86.96%</td>
</tr>
<tr>
<td>Total Overhead</td>
<td>$0.00</td>
<td>0.00%</td>
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<tr>
<td>Total Profit</td>
<td>$1,005.60</td>
<td>13.04%</td>
</tr>
<tr>
<td><strong>Total Margin</strong></td>
<td><strong>$1,005.60</strong></td>
<td>13.04%</td>
</tr>
<tr>
<td><strong>Total Bid Price</strong></td>
<td><strong>$7,709.64</strong></td>
<td></td>
</tr>
</tbody>
</table>
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 178.1

Description of work to be performed: Additional Change Orders for Completion

This change is associated with the labor and materials for a few change orders which were necessary for the completion of the project.

Elevator Emergency Power had to be connected to the generator backed up circuits, requested by elevator inspector.

Cat Walk Gate needs to be installed on the roof walkway for access to the mechanical rooms.

Atrium stairs railing had to change the method of attachment for the wood railing. The original method was not in code compliance.

Elevator emergency power changes $ 12,000.00
Cat walk gate $ 8,000.00
Atrium Lower Stair Rail $ 10,000.00

Total $ 30,000.00

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $30,000.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:

(No) (Yes)  
(Circle One)  
Rick Holt, Cumming Corp.

(No) (Yes)  
(Circle One)  
Robert Faust, Cumming Corp.

Decision needed by: February 24, 2022

(No) (Yes)  
(Circle One)  
Mike Risteski, Cumming Corp.

(No) (Yes)  
(Circle One)  
Edmund V. Most, City of Charleston

(No) (Yes)  
(Circle One)  
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide additional Scopes of work (per Back Sheet) as Requested by the owner.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>□ ROM Estimate of GR's &amp; Insurances □ ROM Estimate for Entire PCO</td>
</tr>
<tr>
<td></td>
<td>□ Lump Sum or <strong>Firm Fixed Unit Pricing</strong> for Trade Contractors - See Detailed Estimates</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>□ Evaluating Potential for Time Impact □ Evaluated - NO TIME IMPACT</td>
</tr>
<tr>
<td></td>
<td>□ Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
</tr>
<tr>
<td></td>
<td>□ Work has been Completed □ Work Has commenced &amp;/or is Ongoing</td>
</tr>
<tr>
<td></td>
<td>□ Work Authorization is Requested By:</td>
</tr>
</tbody>
</table>

**Submitted By:**

Walter Lewis  Project Engineer  Dated  02/15/2022

**Contractor:**  **TURNER BROWNSTONE**  $45,000  Amount Requested

**Reviewed By:**  Program Manager:  **CUMMING**

**Dated** / /

**Authorized Action:**

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

**Approved By:**  Owner:  **City of Charleston**

Edmund Most  Dated  / /

**Requested Action:**

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

**Dated** / /

**Amount Approved**  $30,000.00
# International African American Muesum

## General Summary of the Estimate

### COR No.:

178

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td></td>
<td>SUBTOTAL TRADE DIRECTS</td>
</tr>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.50%</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>@ 0.04500%</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
</tr>
</tbody>
</table>

### SUBTOTAL

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CCIP</td>
<td>@ 2.50%</td>
</tr>
<tr>
<td>Subguard</td>
<td>@ 0.012</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>@ 0.84%</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
</tr>
<tr>
<td>Procore</td>
<td>@ 0.04500%</td>
</tr>
<tr>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
</tr>
</tbody>
</table>

**ESTIMATE TOTAL**

$45,000
# General Requirements (GR’s) & General Conditions (GC’s)

## Trade Directs

### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Unit</th>
<th>Units</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Emergency Lights Change in Drawing Requirements</td>
<td>$12,000.00</td>
<td>1</td>
<td>LS</td>
<td>$12,000.00</td>
</tr>
<tr>
<td>2. Catwalk Added Gate</td>
<td>$8,000.00</td>
<td>1</td>
<td>LS</td>
<td>$8,000.00</td>
</tr>
<tr>
<td>3. Atrium Lower Stair Rail</td>
<td>$10,000.00</td>
<td>1</td>
<td>LS</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>4. Landscape and Hardscape Changes Southeast corner.</td>
<td>$15,000.00</td>
<td>1</td>
<td>LS</td>
<td>$15,000.00</td>
</tr>
<tr>
<td>Total</td>
<td>$45,000.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 181  
Contract: Construction

Description of work to be performed: Drywall, Framing, Painting Scope Adds

A - Customer Requested Change  
B - Code/Regulatory Agency Required Change  
C - Errors and Omissions  
D - Replacing Unsuitable Soils  
E - Soils Related Change Other  
F - Unforeseen Conditions  
G - Time Related Change  
H - Liquidated Damages  
I - Value Engineering Change  
J - Exercising Pre-Priced Option (Allowance)  
K - Accounting Error  

(Indicate Reason for Change Proposal)

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $130,475.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  
Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:  

Decision needed by: February 24, 2022

Approved:  
Rick Holt, Cumming Corp.

(Circle One)  
(YES)  

(Circle One)  
(YES)

Decision needed by: February 24, 2022

NO (YES)  
(Circle One)  
Mike Risteski, Cumming Corp.

(Circle One)  
(YES)  

(Circle One)  
(YES)

Edmund V. Most, City of Charleston

(Circle One)  
(YES)  

Bernard Costantino, Moody Nolan

(Circle One)  
(YES)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide additional Scopes of work for the Drywall Contractor per changes in the documents.

Reason:  
- [X] Owner Directive  
- [ ] Code / Regulatory  
- [ ] Unforeseen Condition  
- [ ] Design Issue

Pricing:  
- [ ] ROM Estimate of GR's & Insurances  
- [ ] ROM Estimate for Entire PCO  
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:  
- [ ] Evaluating Potential for Time Impact  
- [ ] Evaluated - NO TIME IMPACT  
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

- [ ] Work has been Completed  
- [ ] Work Has Commenced &/or is Ongoing  
- [ ] Work Authorization is Requested By:

Submitted By:  
 Contractor: Turner Brownstone  
 Walter Lewis  
 Project Engineer  
 Dated: 02/28/2022  
 Amount Requested: $130,475

Reviewed By:  
 Program Manager: CUMMING  
 Dated: / / 

Approved By:  
 Owner: City of Charleston  
 Edmund Most  
 Dated: / /  
 Amount Approved: $130,475
## General Summary of the Estimate

**Item #** | **Description of Work** | **Detail Estimate of Directs**
--- | --- | ---
A1 | GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC'S) SELF PERFORMED LABOR | $0
A2 | GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC'S) MATERIAL(S) & EQUIPMENT | $0
A3 | TRADE DIRECTS | $120,590.00

**A4** | **SUBTOTAL TRADE DIRECTS** | **$120,590**

**A5**

**A6**

**A7**

**A8** | **CCIP** @ 2.50% = | **$3,014.75**

**A9** | **Subguard** @ 0.012 = | **$1,447.08**

**A10** | **Builders Risk** @ 0.84% = | **$1,012.96**

**A11** | **Performance and Payment Bond** @ 0.00732 = | **$491.00**

**A12** | **Procore** @ 0.04500% = | **$0.00**

**A13** | **Overhead and Profit** @ 3.25% = | **$3,919.18**

**A14**

**A15**

**A16**

**A17**

**SUBTOTAL** | **$120,590**

**ESTIMATE TOTAL** | **$130,475**
# International African American Muesum

**DETAIL ESTIMATE OF DIRECTS**

| COR No.: | 181 |

## DIVISIONS OF WORK

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
</table>

## GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

### DESCRIPTION

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>RATE</th>
<th>TOTAL</th>
</tr>
</thead>
</table>

### TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>RATE</th>
<th>TOTAL</th>
</tr>
</thead>
</table>

1. 3rd Floor Framing Changes from Steel to studs
2. ASI 24 Framing Changes
3. P-Walls: ASI 28 Changes
4. P-Walls: ASI 31 Changes
5. P-Walls: ASI 34.1 Changes
6. P-Walls: RFI 573 Changes
7. P-Walls: Upgraded Exterior Framing to 5 1/2"
8. P-Walls: Trash and Paper Dispenser Reframe
9. ASI 31 Changes
10. Ceiling Coordination issue moves
11. New Wall Level 1 for Sump Pump
12. Move Smoke Detectors
13. Kitchen Chase
14. Added Purple Board

**TOTAL** $120,590

### DIRECT WORK SUBTOTAL

$120,590
To: Edmund V. Most  
From: Mike Risteski  
Date: 3/1/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 182  
Contract: Construction

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>Kneeling Figures Contract</th>
</tr>
</thead>
<tbody>
<tr>
<td>This change is associated with the contract for the production of the kneeling figures.</td>
<td></td>
</tr>
<tr>
<td>The original GMP contract had money allocated for the production of the kneeling figures once their design was completed. Unfortunately at this time the kneeling figures design is still ongoing, therefore the contract sum will be removed from the GMP and returned to the IAAM.</td>
<td></td>
</tr>
</tbody>
</table>

| A - Customer Requested Change |
| B - Code/Regulatory Agency Required Change |
| C - Errors and Omissions |
| D - Replacing Unsuitable Soils |
| E - Soils Related Change Other |
| F - Unforeseen Conditions |
| G - Time Related Change |
| H - Liquidated Damages |
| I - Value Engineering Change |
| J - Exercising Pre-Priced Option (Allowance) |
| K - Accounting Error |

| Indicate Reason for Change Proposal |

| Justification: | A - Customer Requested Change |

<table>
<thead>
<tr>
<th>Attachments:</th>
<th>J&amp;A from Project Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Independent Cost Estimate</td>
</tr>
<tr>
<td></td>
<td>Pre-Negotiation Position (PNP)</td>
</tr>
<tr>
<td></td>
<td>Cost Estimate (Expected to Exceed $10,000)</td>
</tr>
<tr>
<td>X</td>
<td>Change Proposal Request from CMR with Detailed Backup</td>
</tr>
</tbody>
</table>

| Proposal Cost (not to exceed): | $39,463.00 |
| Time Extension Requested: | Time Extension Recommended: |

| Special Circumstances: |

| Consequence of Rejection: |

| Comments by Supervisor: |

---

Approved:  
(Rick Holt, Cumming Corp.)  
(Robert Faust, Cumming Corp.)  
(Edmund V. Most, City of Charleston)  
(Bernard Costantino, Moody Nolan)

Decision needed by:  
March 1, 2022  
(NO) (YES)  
(Circle One)  
Mike Risteski, Cumming Corp.
# Turner Construction Company
## Subcontract Data Sheet

The terms and conditions of the Form 36 SC REV 7-31-20 shall govern this Subcontract with the exception of those modifications listed below:

This Agreement, 4700141339, made as of the 10th day of September in the year 2020 by and between Turner Construction Company a NY Corporation, (hereinafter called Contractor) and Hard Hat Transportation, LLC with offices located at 7171 Bryhawke Circle, Suite 300, North Charleston, SC, 29418 (hereinafter called the Subcontractor).

<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Description of Work: Kneeling Figures (hereinafter called the Work)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Name:</td>
<td>International African American Museum (hereinafter called the Project)</td>
</tr>
<tr>
<td>Project Number:</td>
<td>190795</td>
</tr>
<tr>
<td>Project Location:</td>
<td>Concord St and Inspection St., Charleston, SC, 29403 (hereinafter called the Premises)</td>
</tr>
<tr>
<td>Architect Name:</td>
<td>(hereinafter called the Architect)</td>
</tr>
<tr>
<td>Owner Name:</td>
<td>City of Charleston (hereinafter called the Owner)</td>
</tr>
<tr>
<td>General Contract Date:</td>
<td>08/01/2019</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Price</th>
<th>Subcontract Amount: THIRTY-NINE THOUSAND FOUR HUNDRED SIXTY-THREE Dollars, $39,463.00 (hereinafter called the Price)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reserve:</td>
<td>10.00%</td>
</tr>
</tbody>
</table>

### Change Orders, Additions and Deductions
- Allowance for Overhead on Changes 15%
- Allowance for Profit on Changes Included in Overhead

### Liability for Damage and Personal Injury
In addition to Turner Construction Company, The Turner Corporation, and the Owner, the Indemnified Parties throughout this Agreement shall include: International African American Museum and any of their respective officers, agents, servants, or employees, and affiliates, parents and subsidiaries.

Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Turner Construction Company, shall be in place and maintained until completion and final acceptance of the Work:

1. WORKERS’ COMPENSATION AND EMPLOYERS’ LIABILITY INSURANCE in accordance with laws of the State in which the Work is situated.

2. COMMERCIAL GENERAL LIABILITY INSURANCE

   - $2,000,000.00 /Occurrence
   - $2,000,000.00 /General Aggregate

   ___ Subcontractor Election A). The above insurance coverages shall be provided by insurance companies selected by the Subcontractor.

   or

   ___X___ Subcontractor Election B). The above insurance coverages shall be provided through a consolidated insurance program arranged by Turner Construction Company (CCIP). $7,500.00 (The "Estimated Unburdened Payroll") is warranted by Subcontractor as accurate for calculation of Insurance Premium for Subcontractor and enrolled Lower Tiers.
Subcontractor Election B, Sub-Part B-1. Project utilizes a consolidated insurance program (CCIP) arranged by Turner Construction Company. Subcontractor is an Excluded Prime Tier with Enrolled Lower Tier Subcontractors. $______ (The "Estimated Unburdened Payroll") is warranted by Subcontractor as accurate for calculation of Insurance Premium for enrolled Lower Tiers.

or

Subcontractor Election C) The above insurance coverages shall be provided through an Owner Controlled Insurance Program (OCIP).

3. COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

Combined Single Limit $1,000,000.00 /accident

Bonds

Payment and Performance Bonds included: NO

If Payment and Performance Bonds included:

Provide performance bond in the amount of $ 0.00
Provide payment bond in the amount of $ 0.00

Entire Agreement

Hard Hat Transportation, LLC (SUBCONTRACTOR) ACKNOWLEDGES THAT THE ACCOMPANYING BALANCE OF TERMS AND CONDITIONS PER THE Form 36 SC REV 7-31-20 ARE COMPLEMENTARY AND INTEGRAL TO THIS SUBCONTRACT AGREEMENT.

This Agreement constitutes the entire agreement between the parties hereto. No oral representations or other agreements have been made by Turner Construction Company except as stated in the Agreement.

This Agreement may not be changed in any way except as herein provided, and no term or provision hereof may be waived by Turner Construction Company except in writing signed by its duly authorized officer or agent. Subcontractor acknowledges and represents that it completed and submitted to Turner Construction Company a prequalification questionnaire, that all statements therein were true, accurate and complete, and remain true, accurate and complete, and that Turner Construction Company has relied on truthfulness, accuracy and completeness of such statements and the contents of the attachments thereto in deciding to enter into this Agreement. The marginal descriptions of any term or provision of this Agreement are for convenience only and shall not be deemed to limit, restrict or alter the content, meaning or effect thereof.

The said parties, for themselves, their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of all of the terms and provisions herein contained.

In Witness Whereof the parties to these presents have hereunto set their hands as of the day and year first above written.

Hard Hat Transportation, LLC

By: __________________________
Official title: President

Turner Construction Company

By: __________________________
Tucker Abbott - Procurement Manager

Subcontractor's Federal Employers Identification Number (FEIN) 32-0410968
Subcontractor's State Unemployment Ins. No.
Subcontractor's License No.
(Insert License No., if any, for State or locality in which the Work is to be performed)
Subcontractor's State Sales Tax Registration No.
(Insert State and Register No. for State in which the Work is to be performed)
This Agreement, made as of the SDS day of SDS in the year SDS by and between CONTRACTOR and SDS (See Subcontract Data Sheet for this Item and all other Items marked SDS) (hereinafter called the Subcontractor).

Witnesseth, that the Subcontractor and Contractor agree as follows:

ARTICLE I. The Subcontractor shall perform and furnish all the work, labor, services, materials, plant, equipment, tools, scaffolds, appliances, and other things necessary for SDS (Hereinafter called the Work) and at the SDS (Hereinafter called the Project), located on premises at SDS (Hereinafter called the Premises), as shown and described in and in strict accordance with the Plans, Specifications, General Conditions, Special Conditions and Addenda thereto prepared by SDS (Hereinafter called the Architect) and with the terms and provisions of the General Contract (hereinafter called the General Contract) between Contractor and SDS (Hereinafter called the Owner) dated SDS and in strict accordance with the Additional Provisions, page(s) SDS annexed hereto and made a part hereof.

ARTICLE II. The Plans, Specifications, General Conditions, Special Conditions, Addenda and General Contract hereinabove mentioned, are available for examination by the Subcontractor at all reasonable times at the office of Contractor; all of the aforesaid, including this Agreement, being hereinafter sometimes referred to as the Contract Documents. The Subcontractor represents and agrees that it has carefully examined and understands this Agreement and the other Contract Documents, has investigated the nature, locality and site of the Work and the conditions and difficulties under which it is to be performed and that it enters into this Agreement on the basis of its own examination, investigation and evaluation of all such matters and not in reliance upon any opinions or representations of Contractor, or of the Owner, or of any of their respective officers, agents, servants, or employees.

With respect to the Work to be performed and furnished by the Subcontractor hereunder, the Subcontractor agrees to be bound to Contractor by each and all of the terms and provisions of the General Contract and the other Contract Documents, and to assume toward Contractor all of the duties, obligations and responsibilities that Contractor by those Contract Documents assumes toward the Owner, and the Subcontractor agrees further that Contractor shall have the same rights and remedies as against the Subcontractor as the Owner under the terms and provisions of the General Contract and the other Contract Documents has against Contractor with the same force and effect as though every such duty, obligation, responsibility, right or remedy were set forth herein in full. The terms and provisions of this Agreement with respect to the Work to be performed and furnished by the Subcontractor hereunder are intended to be and shall be in addition to and not in substitution for any of the terms and provisions of the General Contract and the other Contract Documents.

This Subcontract Agreement, the provisions of the General Contract and the other Contract Documents are intended to supplement and complement each other and shall, where possible, be thus interpreted. If, however, any provision of this Subcontract Agreement irreconcilably conflicts with a provision of the General Contract and the other Contract Documents, the provision imposing the greater duty or obligation on the Subcontractor shall govern.

Contractor hereby advises, and the Subcontractor hereby acknowledges, that Contractor in administering this subcontract will be utilizing an information systems infrastructure to process, deliver, and share and/or, at times, to apply electronic signatures to execute certain project documentation through electronic means. As part of the implementation of this infrastructure, the Subcontractor will be given individual, secure log on codes to access the Contractor systems presenting this electronic information. The Subcontractor hereby agrees that such electronic access and the ability of the subcontractor to print out such electronic documents will be in lieu of requiring the delivery of the contents of such electronic documents on printed or paper based media directly to Subcontractor by Contractor or through means of outside third-party services. Delivery of such electronic documents to Subcontractor will be deemed to have occurred when access to the document is made available to Subcontractor in the infrastructure.

At times, Contractor may, through this electronic infrastructure system, initiate Subcontract Change Order documents that will require that the Subcontractor review and approve or reject each such document applying its electronic signature to the approved document on the Contractor software and thereafter, Contractor will apply the electronic signature of its authorized personnel to execute the approved document and electronically deliver the fully executed document to the Subcontractor. The Subcontractor agrees and acknowledges that granting its on-line approval and electronically executing a Subcontract Change Order also affixes the Subcontractor’s electronic signature to such document and in so doing it is agreeing that each such document, when electronically countersigned by Contractor, are valid and authentic and enforceable obligations of both parties and to honor and be bound by such documents as if they had been prepared on hard copy and contained the manually applied autograph signatures of the Subcontractor’s and Contractor’s authorized personnel. Subcontractor hereby agrees to establish, continuously use and maintain a robust and effective Security System/ID and Passwords to protect its identity when addressing and/or signing any electronic contract related documentation issued or exchanged pursuant to this Article.

Optionally, Contractor may use paper documents, where the Subcontractor reviews the proposed paper document and, if it approves, it manually affixes its autograph signature to the paper document and physically returns the signed paper document to Contractor who completes the execution by applying either its autograph or electronic signature to the Subcontract Change Order and a copy of the executed Subcontract Change Order showing the presence of both signatures is physically delivered to the Subcontractor and such Subcontract Change Order shall likewise be deemed by both parties to be valid and authentic and enforceable obligations of both parties.

Contractor may from time to time issue policies or directives applicable to electronic communications, electronic infrastructure and electronic data and Subcontractor shall comply with such policies and directives whether issued as part of this Subcontract or hereafter, and the cost and expense of such compliance shall be borne by the Subcontractor.

ARTICLE III. The Subcontractor shall commence the Work when notified to do so by Contractor and shall diligently and continuously prosecute and complete the Work and coordinate the Work with the other work being performed on the Project, in accordance with those project schedules as may be issued from time to time during the performance of the Work and any other scheduling requirements listed in this Agreement, so as not to delay, impede, obstruct, hinder or interfere with the commencement, progress or completion of the whole or any part of the Work or other work on the Project, and in such a manner as necessary or requested by Contractor from time to time to ensure that Contractor satisfies its obligations in a timely manner under the General Contract.
Planning & Scheduling

The Subcontractor shall participate and cooperate in the development of schedules and other efforts to achieve timely completion of the Work, providing information for the scheduling of the times and sequence of operations required for its Work to meet Contractor’s overall schedule requirements, in addition to any revisions thereto. Subcontractor shall abide by all requirements of the General Contract relating to the submission of schedule and other information related to the performance of Subcontractor’s Work not later than 14 days prior to the time when Contractor is required to provide such materials to Owner under the General Contract, except where Contractor directs otherwise. Subcontractor shall, at no additional cost, provide updates, additional or further detailed schedules and other information as frequently and in whatever form Contractor may request, including but not limited to (1) manpower and cost loaded schedules; (2) information related to its operations as a whole, including but not limited to identifying lower tier subcontractors and suppliers and the status of payments to such subcontractors and suppliers; (3) unions and related benefit funds associated with labor used in the performance of the Work; (4) credit sources and banks providing financing or loans in connection with the performance of the Work or Subcontractor’s operations as a whole and any covenants and requirements imposed upon Subcontractor in connection therewith and the status of Subcontractor’s compliance with such covenants and requirements; and (5) the status of orders, fabrication and delivery of materials and arrangements for the provision of labor. The foregoing information shall include names and contact information, and Subcontractor acknowledges and agrees that Contractor may contact any persons or entities as it deems necessary to verify or obtain such information.

Subcontractor shall establish and maintain a reasonable accounting system by which records are kept that enable Contractor to readily identify all of Subcontractor’s expenses, costs, payments (including to its workers, subcontractors and suppliers, unions, and benefit funds), obligations, budgets, and other financial information related to the Work or this Subcontract. Such records shall include, but not be limited to, all accounting records, written policies and procedures, subcontract files for all tiers, payment vouchers, ledgers, cancelled checks, contract amendments, change order information, insurance documents, and other similar information. Contractor shall have the right to audit, examine, and make copies of all such records (whether written, electronic or another format) as Contractor may determine, and Subcontractor shall facilitate and cooperate with Contractors in this regard. Subcontractor shall impose similar obligations on its subcontractors and vendors to ensure that comparable records kept and Contractor has the right to audit, examine and copy those records.

Delays by Subcontractor

Should the progress of the Work or of the Project be delayed, disrupted, hindered, obstructed, or interfered with by any fault or neglect or act or failure to act of the Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers so as to cause any additional cost, expense, liability or damage to Contractor including legal fees and disbursements incurred by Contractor (whether incurred in defending claims arising from such delay or in seeking reimbursement and indemnity from the Subcontractor and its surety hereunder or otherwise) or to the Owner or any damages or additional costs or expenses for which Contractor or the Owner may or shall become liable, the Subcontractor and its surety shall and does hereby agree to indemnify Contractor and the Owner for and indemnify them against all such costs, expenses, damages and liability.

Overtime

If the progress of the Work or of the Project be delayed by any fault or neglect or act or failure to act of the Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers, then the Subcontractor shall, in addition to all of the other obligations imposed by this Agreement upon the Subcontractor in such case, and at its own cost and expense, work such overtime as may be necessary to make up for all time lost in the completion of the Work and of the Project due to such delay. Should the Subcontractor fail to make up for the time lost by reason of such delay, Contractor shall have the right to cause other Subcontractors to work overtime and to take whatever other action it deems necessary to avoid delay in the completion of the Work and of the Project, and the cost and expense of such overtime and/or such other action shall be borne by the Subcontractor.

Contractor, if it deems necessary, may direct the Subcontractor to work overtime and, if so directed, the Subcontractor shall work said overtime and, provided that the Subcontractor is not in default under any of the terms or provisions of this Agreement or of any of the other Contract Documents and the direction to work overtime was not due in whole or in part to any fault or failure of Subcontractor, Contractor will pay the Subcontractor only for such actual additional wages paid, if any, at rates which have been approved by Contractor plus taxes imposed by law on such additional wages, plus workers’ compensation insurance, liability insurance and levies on such additional wages if required to be paid by the Subcontractor to comply with Subcontractor’s obligations under this Agreement. Subcontractor acknowledges that in the event that it may intend to pursue a claim of inefficiency, loss of productivity or other similar or related request for additional compensation, Subcontractor may rely only on evidence indicating the actual inefficiency, loss of productivity or other similar consequence as it occurred on the Project and agrees that no reports, analyses, data, industry or academic studies or any other evidence that do not exclusively rely on and pertain to the Work performed at the Project shall be used in any way considered, in whole or in part, in connection with the resolution of such a claim, whether by Contractor or any forum for dispute resolution.

Price

The sum to be paid by Contractor, out of funds received from the owner, to the Subcontractor for the satisfactory performance and completion of the Work and of all of the duties, obligations and responsibilities of the Subcontractor under this Agreement and the other Contract Documents shall be SDS (Hereinafter called the Price) subject to additions and deductions as herein provided.

The Price includes all Federal, State, County, Municipal and other taxes imposed by law and based upon labor, services, materials, equipment or other items acquired, performed, furnished or used for and in connection with the Work, including but not limited to sales, use and personal property taxes payable by or levied or assessed against the Owner, Contractor or the Subcontractor. Where the law requires any such taxes to be stated and charged separately, the total price of all items included in the Work plus the amount of such taxes shall not exceed the Price.

Progress Payments

On or before the last day of each month the Subcontractor shall submit to Contractor, in the form required by Contractor, a written requisition for payment showing the proportionate value of the Work installed to that date, from which shall be deducted: a reserve of SDS of all previous payments; all amounts and claims against Subcontractor, by Contractor or any third party, for which Subcontractor is responsible hereunder; and all charges for services, materials, equipment and other items furnished by Contractor to or chargeable to the Subcontractor; and the balance of the amount of such requisition, as approved by Contractor and the Architect and for which payment has been received by Contractor from the Owner, shall be due and paid to the Subcontractor on or about the fifteenth (15th) day of the succeeding month or in accordance with the Contract Documents. Contractor shall have the right, at its sole discretion, to issue payments to Subcontractor by way of joint checks to Subcontractor and suppliers and/or vendors of Subcontractor, and Subcontractor agrees to cooperate fully in facilitating the making of such joint payments.
Payments in General

For projects where the General Contract does not have an Owner that is a governmental body, the requirements of Sections 29-6-30 and 29-6-50 are hereby waived and in lieu of the payment periods and rates of interest contained in such sections, it is hereby agreed that the Subcontractor shall receive its payment no later than seven days after the receipt thereof by Contractor from the Owner and interest on any late payments shall only be payable out of the actual interest that Contractor receives from the Owner and the amount of interest to be paid to the Subcontractor would be calculated on a pro rata basis based upon the ratio that the Subcontractor payment bears to the total Owner payment made to Contractor.

The Subcontractor shall submit with its first requisition for payment a detailed schedule showing the breakdown of the Price into its various parts for use only as a basis of checking the Subcontractor's monthly requisitions.

The Subcontractor agrees that, if and when requested to do so by Contractor, it shall furnish such information, evidence and substantiation as Contractor may require with respect to the nature and extent of all obligations incurred by the Subcontractor for or in connection with the Work, all payments made by the Subcontractor thereon, and the amounts remaining unpaid, to whom and the reasons thereof.

Final Payment

Final payment to the Subcontractor shall be made with funds received by Contractor from the Owner, the Construction Lender or the Owner's Agent as final payment for Work under the General Contract. In addition, final payment by Contractor to the Subcontractor shall not become due and payable until the following express conditions precedent have been met: (1) the completion and acceptance of the Work by Contractor and the Architect; (2) provision by the Subcontractor of evidence satisfactory to Contractor that there are no claims, obligations or liens outstanding or unsatisfied for labor, services, materials, equipment, taxes or other items performed, furnished, or incurred for or in connection with the Work; (3) execution and delivery by the Subcontractor, in a form satisfactory to Contractor of a general release running to and in favor of Contractor and the Owner; and (4) complete and full satisfaction of all claims, demands and disputes, and all obligations and responsibilities of Subcontractor, arising out of or related to the Subcontract, including without limitation the payment due to the Subcontractor as well as those between Subcontractor and any third party.

Liens by Others

Should there be any such claim, obligation or lien or unsatisfied obligation or responsibility whether before or after final payment is made, the Subcontractor shall pay, refund or deliver to Contractor (1) all monies that Contractor and/or the Owner shall pay in satisfying, discharging or defending against any such claim, obligation or lien or any action brought or judgment recovered thereon and all costs and expenses, including legal fees and disbursements, incurred in connection therewith; and (2) such amounts as Contractor or Owner shall, in their sole discretion, determine to be an amount sufficient to protect Contractor and Owner therefrom (in lieu of payment of such amounts, Subcontractor may, at Owner's and Contractor's sole discretion, deliver a bond satisfactory to Contractor and Owner). Such refund and payment shall be made within ten (10) days of request by Contractor to Subcontractor for same. The final payment shall be due within forty (40) days after all of these express conditions precedent have been met.

Effect of Payment

No payment (final or otherwise) made under or in connection with this Agreement shall be conclusive evidence of the performance of the Work or of this Agreement, in whole or in part, and no such payment shall be construed to be an acceptance of defective, faulty or improper work or materials nor shall it release the Subcontractor from any of its obligations under this Agreement; nor shall entrance and use by the Owner constitute acceptance of the Work or any part thereof. The failure of Subcontractor to fully perform and satisfy any or all obligations set forth in this Article IV shall constitute a default, entitling Contractor to take action as described in Article XI.
Subcontractor acknowledges and agrees that to the extent that payments received by Subcontractor include amounts for Work performed by subcontractors to Subcontractor or services or materials provided to Subcontractor by suppliers, vendors, workers employed by or through Subcontractor, all such payments received by Subcontractor shall be deemed to have been received by Subcontractor as trustee with those entitled to receive payment from Subcontractor as beneficiaries of such amounts, and Subcontractor shall hold such funds separately and utilize such amounts only for the purpose of making payment to these beneficiaries. In the event that Subcontractor subsequently determines that a beneficiary is not entitled to receipt of payment, Subcontractor shall return such unpaid funds to Contractor.

**ARTICLE V.** Should the Subcontractor be delayed, obstructed, hindered or interfered with in the commencement, prosecution or completion of the Work by any cause including but not limited to any act, omission, neglect, negligence or default of Contractor or of anyone employed by Contractor or by any other contractor or subcontractor on the Project, or by the Architect, the Owner or their contractors, subcontractors, agents or consultants, or by damage caused by fire or other casualty or by the combined action of workers or by governmental directive or order in no way chargeable to the Subcontractor, or by any extraordinary conditions arising out of war or government regulations, or by any other cause beyond the control of and not due to any fault, neglect, act or omission of the Subcontractor, its officers, agents, employees, subcontractors or suppliers, then except where the General Contract has specific requirements at variance with the foregoing, in which case the requirements of the General Contract shall govern, the Subcontractor shall be entitled to an extension of time for a period equivalent to the time lost by reason of any and all of the aforesaid causes; provided, however, that the Subcontractor shall not be entitled to such extension of time unless the Subcontractor (1) notifies Contractor in writing of the cause or causes of such delay, obstruction, hindrance or interference within forty eight (48) hours of the commencement thereof and (2) demonstrates that it could not have anticipated or avoided such delay, obstruction, hindrance or interference and has used all available means to minimize the consequences thereof. Subcontractor acknowledges that provision of such notice is an essential condition precedent to Subcontractor's rights in connection with any such delays, obstructive hindrances or interferences to Contractor's ability to fully identify, and expeditiously, address and avoid such cause or causes, and, accordingly, Subcontractor expressly waives all rights with respect to any such cause or causes for which notice hereunder was not provided. Notwithstanding the foregoing, if the General Contract is at variance with granting such time extension, then the provisions of the General Contract shall control.

The Subcontractor agrees that it shall not be entitled to nor claim any cost reimbursement, compensation or damages for any delay, obstruction, hindrance or interference to the Work except to the limited extent that Contractor has actually recovered corresponding cost reimbursement, compensation or damages from the Owner under the Contract Documents for such delay, obstruction, hindrance or interference, and then only to the extent of the amount, if any, which Contractor on behalf of the Subcontractor, actually received from the Owner on account of such delay, obstruction, hindrance or interference. Notwithstanding any term or provision herein to the contrary, Subcontractor expressly acknowledges that Contractor is not obligated or required to pursue Subcontractor claims as against Owner if Contractor, in its sole discretion, after review of Subcontractor's claim, has deemed the claim to lack merit in whole or in part.

The Subcontractor agrees that it shall contribute a fair and proportionate share of the costs of advancing the claims of the Subcontractor for delay, including but not limited to legal and other professional fees.

**ARTICLE VI.** The Subcontractor in making or ordering shipments shall not consign or have consigned materials, equipment or any other items in the name of Contractor. Contractor is under no obligation to make payment for charges on shipments made by or to the Subcontractor but may, at its option, pay such charges, in which case the Subcontractor shall reimburse Contractor for the amount of such payments plus a service charge of twenty-five percent (25%) of the amount so paid.

**ARTICLE VII.** Notwithstanding the dimensions on the Plans, Specifications and other Contract Documents it shall be the obligation and responsibility of the Subcontractor to take such measurements as will ensure the proper matching and fitting of the Work covered by this Agreement with contiguous work.

The Subcontractor shall prepare and submit to Contractor such shop drawings as may be necessary to describe completely the details and construction of the Work. Approval of such shop drawings by Contractor and/or the Architect shall not relieve the Subcontractor of its obligation to perform the Work in strict accordance with the Plans, Specifications, the Additional Provisions hereof and the other Contract Documents, nor of its responsibility for the proper matching and fitting of the Work with contiguous work and the coordination of the Work with other work being performed on the site, which obligation and responsibility shall continue until completion of the Work.

The Subcontractor’s submission of a shop drawing to Contractor shall constitute the Subcontractor’s representation, upon which Contractor may rely, that the Subcontractor has reviewed the submission for accuracy and compliance with all Contract Documents and that wherever engineering is required to be performed, same has been performed by a qualified and licensed engineer. Furthermore, the review of the Shop Drawing by Contractor shall not constitute an undertaking by Contractor to identify deficiencies in the submission, that being an undertaking within the sole responsibility of the Subcontractor.

**Contiguous Work**

Should the proper and accurate performance of the Work hereunder depend upon the proper and accurate performance of other work not covered by this Agreement, the Subcontractor shall carefully examine such other work, determine whether it is in fit, ready and suitable condition for the proper and accurate performance of the Work hereunder, use all means necessary to discover any defects in such other work, and before proceeding with the Work hereunder, report promptly any such improper conditions and defects to Contractor in writing and allow Contractor a reasonable time to have such improper conditions and defects remedied. Should Subcontractor fail to comply with the requirements of this Article, Subcontractor shall bear all costs incurred by Contractor, Owner and other subcontractors, and shall not be entitled to extensions of time and adjustments in Price, that could have been avoided by Subcontractor’s compliance with the requirements of this Article.
ARTICLE VIII. The Work hereunder is to be performed and furnished under the direction and to the satisfaction of both the Architect and Contractor. The decision of the Architect as to the true construction, meaning and intent of the Plans and Specifications shall be final and binding upon the parties hereto. Contractor will furnish to the Subcontractor such additional information and Plans as may be prepared by the Architect to further describe the Work to be performed and furnished by the Subcontractor and the Subcontractor shall conform to and abide by the same.

The Subcontractor shall not make any changes, additions and/or omissions in the Work except upon written order of Contractor as provided in Article IX hereof.

ARTICLE IX. Contractor reserves the right, from time to time, whether the Work or any part thereof shall or shall not have been completed, to make changes, additions and/or omissions in the Work as it may deem necessary, upon written order to the Subcontractor. The value of the work to be changed, added or omitted shall be stated in said written order and shall be added to or deducted from the Price.

The value of the work to be changed, added or omitted shall be determined by the lump sum or unit prices, if any, stipulated herein for such work. If no such prices are stipulated, such value shall be determined by whichever of the following methods or combination thereof Contractor may elect:

(a) By adding or deducting a lump sum or an amount determined by a unit price agreed upon between the parties hereto.

(b) By adding (1) the actual net cost to the Subcontractor of labor in accordance with the established rates, including required union benefits, premiums the Subcontractor is required to pay for workmen's compensation and liability insurance, and payroll taxes on such labor, (2) the actual cost to the Subcontractor of materials and equipment and such other direct costs as may be approved by Contractor less all savings, discounts, rebates and credits, (3) an allowance of SDS for overhead on items (1) and (2) above, and (4) an allowance of SDS for profit on items (1), (2) and (3) above.

Should the parties hereto be unable to agree as to the value of the work to be changed, added or omitted, the Subcontractor shall proceed with the work promptly under the written order of Contractor from which order the stated value of the work shall be omitted, and the determination of the value of the work, if not resolved in the normal course, shall be addressed pursuant to the dispute resolution procedures in accordance with Article XIX.

In the case of omitted work Contractor shall have the right to withhold from payments due or to become due to the Subcontractor an amount which, in Contractor's opinion, is equal to the value of such work until such time as the value thereof is determined by agreement or by the Architect as hereinabove provided.

All changes, additions or omissions in the Work ordered in writing by Contractor shall be deemed to be a part of the Work hereunder and shall be performed and furnished in strict accordance with all of the terms and provisions of this Agreement and the other Contract Documents. Subcontractor accepts the responsibility to keep its surety informed of all such modifications to its contract. The obligations of Subcontractor and Subcontractor's Surety shall not be reduced, waived or adversely affected by the issuance of such change orders, additions or deductions even if Subcontractor fails to inform Surety of same and Contractor shall not be required to obtain consent of the Surety to such modifications.

Subcontractor shall provide Contractor with written notice of any circumstance or direction given by Contractor which Subcontractor may regard as a change, addition and/or omission or which may otherwise serve as the basis for a request for an increase in Price or extension of time within 5 days of the receipt of the direction or the occurrence of the event giving rise to such a request. Such written notice shall provide a full explanation of the circumstances or direction and the extent of the increase and extension sought, including a detailed breakdown and analysis supporting such request. Failure of the Subcontractor to provide such written notice shall constitute a waiver of Subcontractor's right to any such increase or extension.

Subcontractor acknowledges that the General Contract may include provisions whereby Contractor is required to provide notice, information, reports and analyses in the event that Contractor intends to pursue or which may affect Contractor's right's to an extension of time or increase in Contractor's price to the Owner, whether by way of change order or otherwise, and that the failure to provide such notice, information, reports and analyses may result in a waiver or forfeiture of the right to such an extension or increase. Accordingly, Subcontractor agrees that Subcontractor shall provide all such notices, information, reports and analyses to Contractor, in the same form, content and manner as Contractor is required to provide to Owner under the General Contract in the event that Subcontractor intends to pursue an extension of time or increase in Price. Subcontractor shall provide all such notices, information, reports and analyses to Contractor not later than 3 business days prior to the time by which Contractor must submit corresponding notice, information, reports and analyses to Owner so that Contractor can pursue like extensions and/or increases in Contractor's price from the Owner. Subcontractor acknowledges that its failure to comply with the terms of this paragraph may result in the loss of or prejudice to Contractor's ability to receive adjustments and extensions time from Owner. Subcontractor therefore agrees that it shall be deemed to have waived and forfeited all such rights in the event that it fails to provide notice, information, reports and analyses to Contractor as required by this Article. The terms and provisions of the paragraph are neither intended to relieve Subcontractor of the obligation to provide timely notices, information, reports and analyses, nor to extend shorter durations, required by the Contract Documents.

Notwithstanding the forgoing, the Subcontractor agrees that it shall not be entitled to nor claim any cost reimbursement, compensation, damages or extensions of time attributable to any changes, additions and/or omissions directed by Contractor except to the limited extent that Contractor has actually recovered corresponding cost reimbursement, compensation, damages or extensions of time from the Owner under the Contract Documents for such changes, additions and/or omissions and then only to the extent of the amount, if any, which Contractor on behalf of the Subcontractor, actually received from the Owner on account of such delay, obstruction, hindrance or interference. The preceding sentence shall not apply in a situation in which Contractor directed the performance of changes, additions and/or omissions by Subcontractor notwithstanding express language in the General Contract clearly indicating that Contractor is not entitled to recover a corresponding cost reimbursement, compensation, damages or extensions of time from the Owner.
ARTICLE X. The Subcontractor shall at all times provide sufficient, safe and proper facilities for the inspection of the Work by Contractor, the Architect, and their authorized representatives in the field, at shops or at any other place where materials or equipment for the Work are in the course of preparation, manufacture, treatment or storage. The Subcontractor shall, within twenty-four (24) hours after receipt of written notice from Contractor to that effect, proceed to take down all portions of the Work and remove from the premises all materials whether worked or unworked, which the Architect, Contractor, Owner or any of its design consultants shall condemn as unsound, defective or improper or as in any way failing to conform to this Agreement or the Plans, Specifications or other Contract Documents, and the Subcontractor, at its own cost and expense, shall replace the same with proper and satisfactory work and materials and make good all work damaged or destroyed by or as a result of such unsound, defective, improper or nonconforming work or materials or by the taking down, removal or replacement thereof.

ARTICLE XI. Should the Subcontractor at any time, whether before or after final payment or completion of the Work, refuse or neglect to supply a sufficient of skilled workers or materials of the proper quality and quantity, or fail in any respect to prosecute the Work with promptness and diligence, or cause by any act or omission the stoppage, impede, obstruct, hinder or delay of or interference with or damage to the work of Contractor or of any other contractors or subcontractors on the Project, or fail in the performance of any of the terms and provisions of this Agreement or of the other Contract Documents, or should the Architect, Contractor, Owner or any of its design consultants, determine that the Work or any portion thereof is not being performed in accordance with the Contract Documents, or should there be filed by or against the Subcontractor a petition in bankruptcy or for an arrangement or reorganization, or should the Subcontractor become insolvent or be adjudicated a bankrupt or go into liquidation or dissolution, either voluntarily or involuntarily under a court order, or make a general assignment for the benefit of creditors, or otherwise acknowledge insolvency, then in any of such events, each of which shall constitute a default hereunder on the Subcontractor's part, Contractor shall have the right, in addition to any other rights and remedies provided by this Agreement and the other Contract Documents or by law, at one time or in phases at Contractor's discretion, after three (3) days written notice to the Subcontractor mailed or delivered to the last known address of the latter, (a) to perform and furnish through itself or through others any such labor or materials for all or any portion of the Work and to deduct the cost thereof from any monies due or to become due to the Subcontractor under this Agreement, (b) to terminate the employment of the Subcontractor for all or any portion of the Work, and/or (c) enter upon the premises and take possession, for the purpose of completing all or any portion of the Work, of all materials, equipment, scaffolds, tools, appliances and other items thereof as Contractor may select, all of which the Subcontractor hereby authorizes Contractor to employ and/or communicate with any person or persons in connection with the completion of the Work and/or to provide all the labor, services, materials, equipment and other items required therefor. In case of Contractor taking action under this Article, including termination of the employment of the Subcontractor, the Subcontractor shall not be entitled to receive any further payment under this Agreement until the Work shall be wholly completed to the satisfaction of Contractor, Owner and the Architect and shall have been accepted by them, at which time, if the unpaid balance of the amount to be paid under this Agreement shall exceed the cost and expense incurred by Contractor in completing the Work, such excess shall be paid by Contractor to the Subcontractor; but if such cost and expense shall exceed such unpaid balance, then the Subcontractor and its surety, if any, shall pay the difference to Contractor. Such cost and expense shall include, not only the cost of completing the Work to the satisfaction of Contractor and the Architect and of performing and furnishing all labor, services, materials, equipment, and other items required therefore, but also all losses, damages, costs and expenses, (including legal fees and disbursements incurred in connection with reprocurement, in defending claims arising from such default and in seeking recovery of all such cost and expense from the Subcontractor and/or its surety), and disbursements sustained, incurred or suffered by reason of or resulting from the Subcontractor's default. Should Contractor take action by effectuating the provisions of this paragraph, and should it subsequently be determined that such action, including a termination effected by the terms of this Article, was improper, such termination shall be treated as a termination for convenience pursuant to Article XXI below. Subcontractor hereby transfers and assigns to Contractor the all rights under agreements that Subcontractor may have with subcontractors to Subcontractor, suppliers and vendors in connection with the Work or the Project, which transfers and assignments may be accepted at Contractor's sole discretion in the event that Contractor has taken action under this Article.

It is recognized that if the Subcontractor institutes or has instituted against it a case under Title 11 of the United States Code (Bankruptcy Code), such event could impair or frustrate the Subcontractor's performance of this Agreement. Accordingly, it is agreed that upon the occurrence of any such event, Contractor shall be entitled to request of Subcontractor or its trustee or other successor adequate assurances of future performance. Failure to comply with such request within ten (10) days of delivery of the request shall entitle Contractor, in addition to any other rights and remedies provided by this Agreement or by law, to terminate this Agreement. Pending receipt of adequate assurances of performance and actual performance in accordance herewith, Contractor shall be entitled to perform and furnish through itself or through others any such labor, materials or equipment for the Work as may be necessary to maintain the progress of the Work and to deduct the cost thereof from any monies due or to become due to the Subcontractor under this Agreement. In the event of such bankruptcy proceedings, this Agreement shall terminate if the Subcontractor rejects this Agreement or if there has been a default and the Subcontractor is unable to give adequate assurance that it will perform as provided in this Agreement or otherwise is unable to comply with the requirements for assuming this Agreement under the applicable provisions of the Bankruptcy Code.

Subcontractor, in addition to any other rights available to Contractor hereunder, agrees to indemnify, hold harmless and defend Contractor from and against any and all claims, demands, suits, damages, judgments, liabilities, costs and expenses (including legal fees and disbursements) arising out of or related to Subcontractor's breach of any term of the Agreement.
ARTICLE XII. Contractor shall not be responsible for any loss or damage to the Work to be performed and furnished under this Agreement, however caused, until after final acceptance thereof by Contractor and the Architect, nor shall Contractor be responsible for loss of or damage to materials, tools, equipment, appliances or other personal property owned, rented or used by the Subcontractor or anyone employed by it in the performance of the Work, however caused.

Builder's Risk Insurance

Contractor or Owner shall effect and maintain All-Risk Builder's Risk insurance in accordance with the Contract Documents upon all Work, materials and equipment incorporated in the Project and all materials and equipment on or about the Premises intended for permanent use or incorporation in the Project or incident to the construction thereof, the capital value of which is included in the cost of the Work, but not including any contractors' machinery, tools, equipment or other personal property owned, rented or used by the Subcontractor or anyone employed by it in the performance of the Work.

A loss insured under Contractor or the Owner's All-Risk Builder's Risk insurance shall be adjusted by the Contractor or the Owner as fiduciary and made payable to Contractor or the Owner as fiduciary for the Insureds, as their interests may appear. Contractor or the Owner shall pay Subcontractors their just shares of insurance proceeds received by Contractor or the Owner, and by appropriate agreements, written where legally required for validity, and shall require Subcontractors to make payments to their subcontractors in a similar manner.

Cleaning Up

ARTICLE XIII. The Subcontractor shall, at its own cost and expense, (1) keep the Premises free at all times from all waste materials, packaging materials and other rubbish accumulated in connection with the execution of its Work by collecting and depositing said materials and rubbish in locations or containers as designated by Contractor from which it shall be removed by Contractor from the Premises without charge, (2) clean and remove from its own Work and from all contiguous work of others any soiling, staining, mortar, plaster, concrete or dirt caused by the execution of its Work and make good all defects resulting therefrom (3) at the completion of its Work in each area, perform such cleaning as may be required to leave the area "broom clean", and (4) at the entire completion of its Work, remove all of its tools, equipment, scaffolds, shanties and surplus materials. Should the Subcontractor fail to perform any of the foregoing to Contractor's satisfaction, Contractor shall have the right to perform and complete such work itself or through others and charge the cost thereof to the Subcontractor.

Ethics & Compliance

ARTICLE XIV. The Subcontractor shall obtain and pay for all necessary permits and licenses pertaining to the Work and shall comply with all Federal, State, Municipal and local laws, ordinances, codes, rules, regulations, standards, orders, notices and requirements, including but not limited to those relating to safety, storm water management, discrimination in employment, fair employment practices, immigration laws or equal employment opportunity, and whether or not provided for by the Plans, Specifications, General Conditions, or other Contract Documents, without additional charge or expense to Contractor and shall also be responsible for and correct, at its own cost and expense, any violations thereof resulting from or in connection with the performance of its Work. Each requisition for payment shall constitute a representation and warranty that Subcontractor is in compliance with applicable law.

The Subcontractor shall at any time upon demand furnish such proof as Contractor may require showing such compliance and the correction of such violations. The Subcontractor agrees to save harmless and indemnify Contractor from and against any and all loss, injury, claims, actions, proceedings, liability, damages, fines, penalties, costs and expenses, including legal fees and disbursements, caused or occasioned directly or indirectly by the Subcontractor's failure to comply with any of said laws, ordinances, rules, regulations, standards, orders, notices or requirements or to correct such violations therefore resulting from or in connection with the performance of Work.

The Immigration and Nationality Act as amended by the Immigration Reform and Control Act of 1986 (IRCA) makes it illegal for employers to knowingly hire persons who are not authorized to work in the United States. For all employees, employers are required to complete an Employment Eligibility Verification form I-9 which requires the prospective employee to produce documentation that establishes identity and employment eligibility. For more information visit www.uscis.gov, or speak to your attorney. Each subcontractor is solely responsible for properly completing Employment Eligibility Verifications for their own employees.

Subcontractor acknowledges represents and warrants that Subcontractor is aware of and understands IRCA, that Subcontractor is in compliance with IRCA, and that Subcontractor is not knowingly employing workers who are not authorized to work in the United States. Subcontractor agrees that Subcontractor will not employ any worker under this subcontract for whom Subcontractor has not completed and maintained I-9 verification. Subcontractor agrees that if Subcontractor acquires knowledge (constructive or otherwise, including receipt of a "no match" letter from Social Security Administration) indicating that one of Subcontractor's workers on this project may not be authorized to work in the United States, despite Subcontractor having conducted a facially valid I-9 verification, that Subcontractor will exercise due diligence as required by law to confirm authorization status and take appropriate action which may include termination of employment. Subcontractor represents and warrants that they will not subcontract to or utilize labor sources that it knows or has reason to know violate IRCA.

Contractor has a longstanding reputation for honesty and integrity in its business dealings and for its corporate policies promoting lawful and ethical behavior. Contractor is committed to upholding that reputation and has adopted a Standard of Business Conduct Policy Statement which governs the actions of all of its employees. Pursuant to that Policy Statement, Contractor employees are prohibited from accepting bribes or kickbacks in any form and, further, are prohibited from accepting goods or services provided by a subcontractor, supplier or vendor for the personal benefit of the employee, his or her relatives, or any entity in which the employee or his or her relatives has a personal interest. This prohibition includes, but is not limited to; work performed on an employee's residence and applies regardless of whether the beneficiary of the goods or services pays for them. Therefore, if the Subcontractor offers or provides a bribe or kickback to any employee, or offers or provides goods or services to any employee, his or her relatives, or any entity in which the employee or his or her relatives has a financial interest, the Subcontractor will be considered to be in material breach of this Subcontract. Subcontractor undertakes the commitment to advise Contractor of any action by any entity or person associated with the project that Subcontractor believes violates any applicable law, rule or regulation. Subcontractor’s violation of any of the foregoing shall be considered as Subcontractor’s failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article XI of this Agreement.

The provisions of this Article must be incorporated into any subcontract Subcontractor enters into in connection with the performance of the Work.
Harassment

ARTICLE XV. It is the goal of Contractor to promote a work environment at the Project that is free from harassment of any kind. Contractor has ZERO TOLERANCE for harassment, including harassment on the basis of race, sex, gender, gender identity, gender expression, transgender status, sexual orientation, or other pregnancy-related conditions, color, national origin, ancestry, age, religious creed, citizenship, marital status (including registered domestic partners), parental status, physical disability, mental disability, medical condition, genetic information, military or veteran status (including protected veteran status), or any other characteristic or status protected by law. Subcontractor agrees to be bound by the Policy Statement on Harassment referenced in Article XXIII below, and any violation or suspected violation of such policy by Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers shall be considered as Subcontractor’s failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article XI of this Agreement. Subcontractor shall actively promote a harassment-free work environment among its officers, agents, servants, employees, subcontractors, and suppliers.

Labor to be Employed

ARTICLE XVI. The Subcontractor shall not employ workers, means, materials or equipment or assign work in any manner which may cause strikes, work stoppages or any disturbances by workers employed by the Subcontractor, Contractor or other contractors or subcontractors on or in connection with the Work or the Project or the location thereof. The Subcontractor agrees that all disputes as to jurisdiction of trades shall be adjusted in the manner or by a process that Contractor may require, including, if Contractor so requires, in accordance with any plan for the settlement of jurisdictional disputes to which Contractor may be bound in connection with the Project which may be in effect either nationally or in the locality in which the Work is being done. Subcontractor agrees that it shall assign work consistent with any such plan and shall be bound and abide by all such adjustments and settlements of jurisdictional disputes, provided that the provisions of this Article shall not be in violation of or in conflict with any provisions of law applicable to the settlement of such disputes. Should the Subcontractor fail to carry out or comply with any of the foregoing provisions, Contractor shall have the right, in addition to any other rights and remedies provided by this Agreement or the other Contract Documents or by law, after three (3) days written notice mailed or delivered to the last known address of the Subcontractor, to terminate this Agreement or any part thereof or the employment of the Subcontractor for all or any portion of the Work, and, for the purpose of completing the Work, to enter upon the Premises and take possession, in the same manner, to the same extent and upon the same terms and conditions as set forth in Article XI of this Agreement.

Taxes & Contributions

ARTICLE XVII. The Subcontractor for the Price herein provided, hereby accepts and assumes exclusive liability for and shall indemnify, protect and save harmless Contractor and the Owner from and against the payment of:

1. All contributions, taxes or premiums (including interest and penalties thereon) which may be payable under the Unemployment Insurance Law of any State, Federal Social Security Act, Federal, State, County and/or Municipal Tax Withholding Laws, or any other law, measured upon the payroll of or required to be withheld from employees, by whomsoever employed, engaged in the Work to be performed and furnished under this Agreement.

2. All sales, use, personal property and other taxes (including interest and penalties thereon) required by any Federal, State, County, Municipal or other law to be paid or collected by the Subcontractor or any of its subcontractors or vendors or any other person or persons acting for, through or under it or any of them, by reason of the performance of the Work or the acquisition, ownership, furnishing or use of any materials, equipment, supplies, labor, services or other items for or in connection with the Work.

3. All pension, welfare, vacation, annuity and other union benefit contributions payable under or in connection with labor agreements with respect to all persons, by whomsoever employed, engaged in the Work to be performed and furnished under this Agreement.

In furtherance of, and in addition to the agreements, duties obligations and responsibilities of the Subcontractor with respect to the payment of sales, use, personal property and other taxes set forth in Articles IV and XVII of this Agreement, the Subcontractor agrees to reimburse and otherwise indemnify Contractor and the Owner for any expenses, including legal fees and litigation arising from, or related to the Subcontractor’s failure to pay any sales, use, personal property or other taxes based upon labor, services, materials, equipment or other items acquired, performed, furnished or used for or in connection with the Work.

Patents

ARTICLE XVIII. The Subcontractor hereby agrees to indemnify, protect and save harmless Contractor and the Owner from and against any and all liability, loss or damage and to reimburse Contractor and the Owner for any expenses, including legal fees and disbursements, to which Contractor and the Owner may be put because of claims or litigation on account of infringement or alleged infringement of any letters patent or patent rights by reason of the Work or materials, equipment or other items used by the Subcontractor in its performance.

Disputes

ARTICLE XIX. The parties recognize that problems and disputes between them may occur and that it is preferable for them to reach an amicable resolution of same without the need to resort to formal dispute resolution procedures. In that regard, they each pledge to participate in good faith in voluntary and non-binding Alternate Dispute Resolution (ADR) procedures in the form of a mediation conducted by a neutral mediator, or such other form as the parties otherwise agree, as a condition precedent to addressing the dispute in any other forum unless Contractor agrees in writing to waive this condition precedent. The procedure for requesting such an ADR shall begin with a written notice of request for ADR delivered by one party hereto to the other. Within 14 days following the receipt of such notice, lead representatives of Subcontractor and Contractor shall meet in an effort to resolve the dispute. In the event that the dispute remains unresolved after the lead representatives meeting, a meeting shall take place between the President of Subcontractor and the General Manager or Operations Manager of Contractor within 20 days thereafter. In the event that the dispute remains unresolved after the President/Manager meeting, the parties shall proceed with ADR procedures described in the Article. However, in the event that such disputes are not resolved by mediation or another ADR
procedure as Contractor and the Subcontractor may agree then such disputes shall be resolved any of following forums selected at Contractor's sole discretion either (1) the forum pursuant to which disputes between the Owner and Contractor are to be resolved under the terms of the General Contract, (2) arbitration administered by the American Arbitration Association under the rules pertinent to construction disputes then applicable or (3) in litigation. Furthermore, the Subcontractor shall have the exclusive right to join the Subcontractor as a party in any dispute resolution procedure (including without limitation ADR procedures, binding arbitration or other judicial or non-judicial proceeding) in which Contractor may be involved arising out of or in connection with the Project, together with such other subcontractors or parties as may be appropriate, where in the judgment of Contractor the issues in dispute are related to the work or performance of the Subcontractor. In the event that relevant law limits or precludes Contractor's sole discretion in selecting the forum, then the dispute shall be resolved in litigation, unless the Subcontractor is to be joined by Contractor in a proceeding with Owner, in which case the forum shall be as stated in the General Contract. Furthermore, the Subcontractor expressly agrees to waive its right to trial by jury in any dispute involving Contractor and or Contractor's surety. Subcontractor further agrees that in the event that it suffers damages, cost or expenses or otherwise intends to pursue a recovery that arises out of or relates to the performance of work by another subcontractor to or under Contractor, Subcontractor's sole remedy shall be as against that responsible subcontractor and Subcontractor shall not pursue a remedy from Contractor. Subcontractor shall continue with the diligent performance of Work pursuant to this Subcontract and follow and abide by directions and instructions issued by Contractor during the pendency of any dispute, including dispute resolution procedures, ADR procedures, arbitration or litigation.

All claims, suit or demands by Subcontractor as against Contractor or Owner shall be brought within the earlier of one year following Subcontractor's achieving substantial completion for the Subcontractor’s Work or within one year of Contractor’s notice of default in the event that Contractor has taken any action in accordance with Article XI, and Subcontractor hereby agrees that all relevant statutes of limitations shall be deemed reduced to such time period, to the fullest extent permitted by law.

Mechanics’ Liens & Claims
To the fullest extent permitted by law, Subcontractor for itself and for its subcontractors, laborers and materialmen and suppliers and all others directly or indirectly acting for, through or under it or any of them covenants and agrees that no liens or claims, whether a mechanics’ lien or an attested account or otherwise, will be filed or maintained against the Project or Premises or any part thereof or any interests therein or any improvements thereon or against any monies due or to become due from the Owner to Contractor or from Contractor to the Subcontractor, for or on account of any work, labor, services, materials, supplies, equipment, or other items performed or furnished for or in connection with the Work, and the Subcontractor for itself and its Subcontractors, laborers, and materialmen and suppliers and all others above mentioned does hereby expressly waive, release and relinquish all rights to file or maintain such liens and claims and agrees further that this waiver of the right to file or maintain such liens and claims shall be an independent covenant and shall apply as well to work, labor and services performed and materials, supplies, equipment and other items furnished under any change order or supplemental agreement for extra or additional work in connection with the Project as to the Original Work covered by this Agreement.

If any subcontractor, laborer, materialman or supplier of the Subcontractor or any other person directly or indirectly acting for, through or under it or any of them files or maintains a lien or claim, whether a mechanics’ lien or an attested account or otherwise, a mechanic’s lien or claim against the Project or Premises or any part thereof or any interests therein or any improvements thereon, or against any monies due or to become due from the Owner to Contractor or from Contractor to the Subcontractor, for or on account of any work, labor, services, materials, supplies, equipment or other items performed or furnished for or in connection with the Work or under any change order or supplemental agreement for extra or additional work in connection with the Project, the Subcontractor agrees to cause such liens and claims to be satisfied, removed or discharged at its own expense by bond, payment or otherwise within ten (10) days from the date of the filing thereof, and upon its failure to do so Contractor shall have the right, in addition to all other rights and remedies provided under this Agreement and the other Contract Documents or by law, to cause such liens or claims to be satisfied, removed or discharged by whatever means Contractor chooses, at the entire cost and expense of the Subcontractor (such cost and expense to include legal fees and disbursements). The Subcontractor agrees to indemnify, protect and save harmless Contractor and the Owner from and against any and all such liens and claims and actions brought or judgments rendered thereon, and from and against any and all loss, damages, costs and expenses, including legal fees and disbursements, which Contractor and/or the Owner may sustain or incur in connection therewith.

Assignment & Subletting
ARTICLE XX. To the fullest extent permitted by law, Subcontractor agrees that it shall not assign, sell, transfer, delegate or encumber any rights, duties or obligations arising under this Agreement including, but not limited to, any right to receive payments hereunder, without the prior written consent of Contractor in its sole discretion and the giving of any such consent to a particular assignment shall not dispense with the necessity of such consent to any further or other assignments. In the event Subcontractor assigns, sells, encumbers or otherwise transfers its right to any monies due or to become due under this Agreement as security for any loan, financing or other indebtedness (hereafter “Assignment”), notification to Contractor of such Assignment must be sent by certified mail, return receipt requested, to the Procurement Manager in charge of the business unit responsible for the construction of the Project and the Assignment shall not be effective as against Contractor until Contractor provides its written consent to such Assignment. Subcontractor agrees that any such Assignment shall not relieve the Subcontractor of any of its obligations under the Agreement and the other Contract Documents and shall not create a contractual relationship or a third party beneficiary relationship of any kind between Contractor and such assignee or transferee. Subcontractor further agrees that all of Contractor’s defenses and claims arising out of this Agreement with respect to such Assignment are reserved unless expressly waived in writing by a duly authorized corporate officer. Subcontractor hereby agrees to indemnify and hold harmless Contractor from and against any and all loss, cost, expense or damages Contractor or Owner has or may sustain or incur in connection with such Assignment.

Termination for Convenience
ARTICLE XXI. Contractor shall have the right at any time and for any reason, by written notice to the Subcontractor, to terminate this Agreement without cause and require the Subcontractor to cease work hereunder. In the event of such a termination for convenience, the Subcontractor shall be entitled to payment pursuant to the terms of the Agreement only for all Work performed as of the date of termination, together with reasonable costs of demobilization and such other reasonable costs as may be encountered by the Subcontractor and directly attributable to such termination provided that such amount shall be reduced by all amounts for which Subcontractor is liable or responsible hereunder. However, the Subcontractor shall only be entitled to profit on that portion of the Work actually performed and approved for payment to the date of termination together with retainages held upon payments made prior thereto. Subcontractor waives any claim for loss of anticipated profits or other damages in the event Contractor exercises this clause.
Guarantees

ARTICLE XXII. The Subcontractor hereby guarantees the Work to the full extent provided in the Plans, Specifications, General Conditions, Special Conditions and other Contract Documents.

The Subcontractor shall expeditiously remove, replace and/or repair at its own expense and at the convenience of the Owner any faulty, defective or improper Work, materials or equipment existing or discovered within one (1) year from the date of the acceptance of the Project as a whole by the Architect and the Owner or for such longer period as may be provided in the Plans, Specifications, General Conditions, Special Conditions or other Contract Documents.

Without limiting the generality of the foregoing, the Subcontractor warrants to the Owner, the Architect and Contractor, and each of them, that all materials and equipment furnished under this Agreement will be of first class quality and new, unless otherwise required or permitted by the other Contract Documents, that the Work performed pursuant to this Agreement will be free from defects and that the Work will strictly conform with the requirements of the Contract Documents. Work not conforming to such requirements, including substitutions not properly approved and authorized, shall be considered defective. All warranties contained in this Agreement and in the Contract Documents shall be in addition to and not in limitation of all other warranties or remedies required and/or arising pursuant to applicable law. Failure of Subcontractor to honor and satisfy the foregoing and any other warranties or guarantees required of the Subcontractor under the Contract Documents, shall constitute a default by Subcontractor.

Accident Prevention

ARTICLE XXIII. The Subcontractor agrees that the prevention of accidents to workmen and property engaged upon or in the vicinity of the Work is its responsibility. The Subcontractor agrees to comply with all Federal, State, Municipal and local laws, ordinances, rules, regulations, codes, standards, orders, notices and requirements concerning safety as shall be applicable to the Work, including, among others, the Federal Occupational Safety and Health Act of 1970 and the Clean Water Act, as amended, and all standards, rules and regulations, which have been or shall be enacted or issued thereunder, or with the safety standards established or imposed during the progress of the Work by Contractor. When so ordered, the Subcontractor shall stop any part of the Work which Contractor deems potentially unsafe, noncompliant or in violation until corrective measures satisfactory to Contractor have been taken, and the Subcontractor agrees that it shall not have nor make any claim for damages growing out of such stoppages. Should the Subcontractor neglect to take such corrective measures, Contractor may do so at the cost and expense of the Subcontractor and may deduct the cost thereof from any payments due or to become due to the Subcontractor. Failure on the part of Contractor to stop unsafe practices shall in no way relieve the Subcontractor of its responsibility hereafter.

This Subcontractor acknowledges the receipt of Contractor's "Corporate Safety, Health and Environmental Policy", "Substance Abuse Policy", "Equal Employment Opportunity" policy and "Policy Statement on Harassment." Subject to applicable law this Subcontractor further agrees to be bound to these policies as a part of the supplemental and special conditions to the contract for construction of the project, including any amendments or modifications of such policies that Contractor may issue at any time. Subcontractor further agrees that Contractor endeavors to employ on its projects robust programs with respect to safety and storm water management, as well as compliance with relevant laws and regulations, including, without limitation, OSHA and the Clean Water Act. Such programs may include aggressive measures and requirements, such as reporting, training of personnel and inspections that may be considerably above and beyond minimum standards. Subcontractor agrees to comply with any and all requirements Contractor may impose in connection with such programs and policies, whether as part of this Subcontract or hereafter, and the cost and expense of such compliance shall be borne by the Subcontractor.

In the event that hazardous substances of a type of which an employer is required by law to notify its employees are being used or stored on the site by the Subcontractor, the Subcontractor's subcontractors and anyone directly or indirectly employed or otherwise retained by them or either of them, the Subcontractor shall immediately provide written notice of the chemical composition thereof (including, without limitation, a copy of the applicable Material Safety Data Sheet) to Contractor in sufficient time to permit compliance with such laws by Contractor, other subcontractors and other employers on the site. In the event that the Subcontractor encounters on the site material reasonably believed to be hazardous substances (including, without limitation, asbestos or polychlorinated biphenyl) which has not been rendered harmless, the Subcontractor shall immediately stop Work in the area affected and immediately report the condition to Contractor in writing. Work in the affected area shall resume when such hazardous substances have been rendered harmless or removed as determined by Contractor in its sole and absolute discretion. To the extent of Subcontractor's responsibilities hereunder, Subcontractor does indemnify and save harmless Contractor from and against any and all loss, injury, claims, actions, proceedings, liability, damages, fines, penalties, cost and expenses, including legal fees and disbursements, caused or occasioned directly or indirectly by the Subcontractor in regard to such hazardous substances.

Assumption of Liability & Indemnity

ARTICLE XXIV. Throughout this Agreement, the "Indemnified Party (ies)" means Contractor, the Owner, any party required to be indemnified pursuant to the General Contract, and any of their respective officers, agents, servants, or employees, and affiliates, parents and subsidiaries. Except as otherwise provided below, the Subcontractor hereby assumes the entire responsibility and liability for any and all actual or potential damage or injury of any kind or nature whatsoever (including death, business interruption or loss of use resulting therefrom) to all persons and entities, whether employees of the Subcontractor or any tier of the Subcontractor or otherwise, or to all property; or as a result of a perceived risk of such damage or injury (including actions taken to avoid or contain such actual or potential damage or injury, whether required or incurred by a public authority or otherwise); caused by, resulting from, arising out of or occurring in connection with the execution of the Work, or in preparation for the Work, or any extension, modification, or amendment to the Work by change order or otherwise. Should any claims for such actual or potential damage or injury (including death resulting therefrom) be made or asserted, whether or not such claims are based upon an Indemnified Party's alleged active or passive negligence or participation in the wrong or upon any alleged breach of any statutory duty or obligation on the part of an Indemnified Party, the Subcontractor agrees to indemnify and save harmless the Indemnified Party from and against any and all such claims and further from and against any and all loss, cost, expense, liability, damage, penalties, fines or injury, including legal fees and disbursements, that the Indemnified Party may directly or indirectly sustain, suffer or incur as a result thereof. However, this Article shall not be construed in any way to require the Subcontractor, its agents, and its employees to indemnify the Indemnified Party for damages because of property damage or
bodily injury caused by or resulting from the sole negligence of the Indemnified Party. In all other instances, including but not limited to, instances where the Indemnified Party is partially, but not solely, negligent, the Subcontractor agrees to and does hereby assume, on behalf of the Indemnified Party, the defense of any action at law or in equity which may be brought against the Indemnified Party upon or by reason of such claims and to pay on behalf of the Indemnified Party, upon demand, the amount of any judgment that may be entered against the Indemnified Party in any such action. In the event that any such claims, loss, cost, expense, liability, damage, penalties, fines or injury arise or are made, asserted or threatened against the Indemnified Party, Contractor shall have the right to withhold from any payments due or to become due to the Subcontractor an amount sufficient in its judgment to protect and indemnify the Indemnified Party from and against any and all such claims, loss, cost, expense, liability, damage, penalties, fines or injury, including legal fees and disbursements, or Contractor in its discretion may require the Subcontractor to furnish a surety bond satisfactory to Contractor guaranteeing such protection, which bond shall be furnished by the Subcontractor within five (5) days after written demand has been made therefor.

In furtherance to but not in limitation of the indemnity provisions in this Agreement, Subcontractor hereby expressly and specifically agrees that its obligation to indemnify, defend and save harmless as provided in this Agreement shall not in any way be affected or diminished by any statutory or constitutional immunity it enjoys from suits by its own employees or from limitations of liability or recovery under worker’s compensation laws.

IN THE EVENT THAT THE LAW OF THE STATE IN WHICH THE PROJECT IS LOCATED (OR OTHER APPLICABLE LAW) LIMITS THE INDEMNITY OBLIGATIONS OF THE SUBCONTRACTOR, THEN THE INDEMNITY OBLIGATIONS OF THE SUBCONTRACTOR SHALL BE ENFORCED TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, AND THIS ARTICLE SHALL BE CONSTRUED TO CONFORM TO SUCH LAW.

**Insurance**

**ARTICLE XXV. Insurance.**

**A. Required Insurance**

Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Contractor shall be in place and maintained until completion and final acceptance of the Work:

1. **WORKERS’ COMPENSATION** in accordance with laws of the State in which the Work is situated, and **EMPLOYERS’ LIABILITY INSURANCE** in the amount of $1,000,000.

2. **COMMERCIAL GENERAL LIABILITY INSURANCE INCLUDING COMPLETED OPERATIONS, CONTRACTUAL LIABILITY INSURANCE AGAINST THE LIABILITY ASSUMED HEREINABOVE, and including INDEPENDENT CONTRACTOR’S LIABILITY INSURANCE if the Subcontractor sublets to another all or any portion of the Work, Personal Injury Liability, Broad Form Property Damage (including completed operations), and Explosion, Collapse and Underground Hazards, with the following minimum limits:(Coverage shall be equivalent to current ISO Occurrence Form). No exclusions or restrictions for Crane usage will be permitted.

   **$ SDS /Occurrence**

   **$ SDS General Aggregate**

   Subcontractor has elected to obtain the above insurance coverages set forth in paragraphs 1 and 2 above in the manner set forth in the Subcontractor Election A, B or C (with Subcontractor Election B having a further coverage option that is stated in, and may be elected by checking, Sub-Part B-1 ) that is checked below (Note: only one of Subcontractor Election A, B or C is to be selected, however Subpart B-1 may also be selected but only if Subcontractor Election B is selected):

   **SDS** Subcontractor Election A). The above insurance coverages shall be provided by insurance companies selected by the Subcontractor. Contractor shall have the right, without limitation, to reject any insurance company selected by Subcontractor that has an A.M. Best rating of less than A or Standard and Poor’s rating of less than AA or a Moody’s rating of less than Aa. This insurance coverage shall include Products and Completed Operations coverage which Subcontractor agrees to maintain for a period equal to the statute of repose in the state in which the project is located. Subcontractor further agrees that it shall require each of its sub-subcontractors to provide the above insurance coverages subject to the terms and conditions set forth below. All costs are included in the Price and are to be paid by the Subcontractor.

   or

   **SDS** Subcontractor Election B). The above insurance coverages shall be provided through a consolidated insurance program that insures Subcontractor and its eligible lower tier subcontractors, which program has been made available to Subcontractor by Contractor, as described and with limits of liability, terms and conditions set forth in the Contract Documents, including, but not limited to, the CCIP Manual, and Subcontractor agrees to all terms and conditions therein, and makes all representations and warranties, associated therewith. Subcontractor acknowledges and agrees i) that insurance costs will be incurred to provide the above insurance coverages under the consolidated program; ii) that as opposed to Subcontractor including such insurance costs in the Price and paying such costs directly, the Price does not include insurance costs for the above insurance coverages, iii) that it is more convenient and efficient for Contractor to pay such insurance costs on Subcontractor’s and Subcontractor’s eligible lower tier subcontractor’s behalf, and iv) that Contractor is authorized by Subcontractor to pay such insurance premiums on Subcontractor’s behalf and Subcontractor’s eligible lower tier subcontractor’s behalf.

   **SDS** Sub-Part B-1 to Subcontractor Election B. By checking this further election, Subcontractor agrees that it has selected Subcontractor Election B with respect to providing the above insurance coverages for eligible lower tier subcontractors engaged by or through Subcontractor to the extent
permitted by the Contract Documents (including the CCIP Manual), however, Subcontractor agrees that as to Subcontractor itself, the above insurances will be provided by Subcontractor in accordance with the terms and conditions of Subcontractor Election A above. Accordingly, Subcontractor itself shall be deemed an “Excluded Party” for purposes of the consolidated insurance program as described in the Contract Documents (including the CCIP Manual). Any other “Excluded Party” lower tier subcontractors (if applicable) with respect to the consolidated insurance program arranged by Contractor shall be required to procure their own insurance coverages at their expense. For Subcontractor’s lower tier subcontractors that are not an “Excluded Party”, the above insurance coverages shall be provided through the consolidated insurance program as described in Subcontractor Election B to the extent permitted by the Contract Documents (including the CCIP Manual).

Subcontractor represents and warrants that all amounts, information and data that Subcontractor and its lower tier subcontractors has provided or will provide in connection with CCIP applications and other related forms and documents, including estimated payroll and insurance costs, are, or shall be when submitted, true and accurate. Subcontractor represents and warrants that the amount of estimated unburdened payroll (payroll without benefits or overtime, unless the overtime portion is included as required by the regulations of the State in which the project is located) actually used by Subcontractor and its eligible lower tier subcontractors in calculating the Price is $ 

Subcontractor Election C). The above insurance coverages shall be provided through an Owner Controlled Insurance Program (OCIP) as described and with limits of liability set forth in the Contract Documents and Subcontractor agrees to all terms, and makes all representations and warranties, associated therewith.

Subcontractor acknowledges that if any of the above insurance coverages are provided through a consolidated program arranged pursuant to Subcontractor Election B, Subcontractor Election B-1 or Subcontractor Election C, such coverage will not apply to any operations off of the premises (as defined in the CCIP Policy or Manual or OCIP Policy or Manual) and Subcontractor shall provide and maintain the above insurance coverages with respect to off-premises operations. Subcontractor further agrees that in the event that the insurance coverage provided by a consolidated insurance program (Subcontractor Election B or C) is cancelled prior to the completion of the Work, subcontractor shall provide the insurance coverage (set forth in paragraphs 1 and 2). Subcontractor further acknowledges and represents i) that it was not required to select any particular election provided for above and was free to choose Subcontractor Election A if it preferred to apply for and obtain insurance itself, ii) that Subcontractor has reviewed the other Subcontractor Elections available for this Project and has chosen the election selected above, and iii) that Subcontractor has satisfied itself that the Subcontractor Election checked above is preferable to Subcontractor for reasons of convenience, economics and/or coverage afforded.

3. COMMERCIAL AUTOMOBILE LIABILITY INSURANCE covering all owned, non-owned and hired automobiles used in connection with the Work, with the following minimum limits:

   Combined Single Limit   $SDS/accident

4. ALL RISK CONTRACTOR'S EQUIPMENT INSURANCE COVERAGE shall be provided by all Subcontractors utilizing a crane or other equipment in connection with the performance of the Work and insured to the full value of equipment.

B. Insurance Conditions

The following terms and conditions are applicable to all insurance:

Before commencing the Work, the Subcontractor shall furnish a certificate(s), satisfactory to Contractor from each insurance company showing that the above insurances (1, 2 Subcontractor Election A, 3 and CGL operations off of the premises under 2 Subcontractor Election B and C, and 4) are in force, stating policy numbers, dates of expiration, and limits of liability thereunder, and further providing that should any of the described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Subcontractor shall advise Contractor of the amount of any Deductible or Self-Insured Retention that exists on any policies of insurance on the face of the certificates provided. Subcontractor shall be responsible for and agrees to pay and/or reimburse Contractor for any such Deductible or Self-Insured Retention.

The Subcontractor shall name the Indemnified Parties and such other entities as may be reasonably requested as additional insureds under the policies of insurance listed in paragraph A maintained by the Subcontractor (with the exception of Workers Compensation insurance), whether during the performance of the Work or any time thereafter. The coverage to be provided to the additional insureds shall be for all liability arising out of the Work. Subcontractor will submit a certificate of
insurance and a copy of endorsements to the insurance policies listing all parties required to be named by Subcontractor as additional insureds. Subcontractor hereby waives all rights of recovery from Contractor and the Indemnified Parties, including but not limited to rights of subrogation, with respect to any matter, claim or suit that is required to be covered by insurance to be maintained by Subcontractor pursuant to the Contract Documents.

It is expressly agreed by and between Subcontractor and Contractor that all insurance, whether issued on a primary or excess basis, afforded the additional insureds shall be primary insurance to any other insurance available to the additional insureds and that any other insurance carried by the additional insureds shall be excess of all other insurance carried by the Subcontractor and shall not contribute with the Subcontractor’s insurance. Subcontractor further agrees that the amount of insurance available to Contractor and the additional insureds shall be for the full amount of the loss up to policy limits of liability and shall not be limited to the minimum requirements of this Subcontract. Subcontractor further agrees to provide endorsements on its insurance policies that shall state the foregoing; however, Subcontractor’s failure to provide such endorsement shall not affect Subcontractor’s agreement hereunder.

If the Subcontractor fails to procure and maintain such insurance, if required, Contractor shall have the right, but not the obligation, to procure and maintain said insurance for and in the name of the Subcontractor and the Subcontractor shall pay the cost thereof and shall furnish all necessary information to make effective and maintain such insurance or at Contractor’s option, Contractor may offset the cost incurred by Contractor against amounts otherwise payable to Subcontractor hereunder. Subcontractor further agrees that in the event of such failure to procure and maintain such insurance, Subcontractor shall be liable for all amounts which would have been payable pursuant to the insurance required by this Subcontract. If, in Contractor’s discretion, Contractor is concerned that any insurance company selected by Subcontractor has, at any time, faced diminished financial strength or that the insurance company may no longer provide the same level of financial strength (such as a decline in an A. M. Best, Standard and Poor’s or Moody’s rating), Contractor may require that Subcontractor provide replacement insurance coverage through an insurance company satisfactory to Contractor.

IN THE EVENT THAT THE LAW OF THE STATE IN WHICH THE PROJECT IS LOCATED (OR OTHER APPLICABLE LAW) LIMITS THE ADDITIONAL INSURED COVERAGE THAT CONTRACTOR MAY REQUIRE FROM SUBCONTRACTOR, THEN SUBCONTRACTOR SHALL BE REQUIRED TO OBTAIN ADDITIONAL INSURED COVERAGE TO THE FULLEST EXTENT OF COVERAGE AND LIMITS ALLOWED BY APPLICABLE LAW AND THIS CONTRACT SHALL BE READ TO CONFORM TO SUCH LAW.

Bonds

ARTICLE XXVI. The Subcontractor shall furnish to Contractor a performance bond in the amount of $ SDS and a separate payment bond in the amount of $ SDS in the form and contents of such bonds and the Surety or Sureties thereon to be satisfactory to Contractor. Such bonds shall be furnished to Contractor within ten (10) calendar days after Subcontractor has executed this Agreement or within such other time period agreed to by Contractor in writing. In the event Subcontractor fails to furnish such bonds to Contractor within the time period as hereinabove provided, such failure shall constitute a default under this Agreement in which event Contractor shall have all of the rights and remedies provided in Article XI hereof with respect to default on the part of Subcontractor including, without limitation, the right to terminate this Agreement.

Without limiting the responsibilities of Subcontractor and its Surety under the terms of this Agreement, Subcontractor and its Surety hereby agree to promptly pay all lawful claims of subcontractors, materialmen, laborers, persons, firms or corporations for labor or services performed or materials, supplies, machinery equipment, rentals, fuels, oils, tools, appliances, insurance and other items furnished, used or consumed in connection with the prosecution of the Work provided for in said Subcontract and any and all modifications thereof, and shall indemnify and save harmless Contractor of and from all liability loss, damage and expense, including interest, costs and attorney fees, which Contractor and/or its Surety may sustain by reason of Subcontractor’s or its Surety’s failure to do so.

Subcontractor and its Surety hereby agree to execute and deliver to Contractor when requested in connection with the issuance of change orders under this Agreement, Rider “A” amendments (or other documents as Contractor may require) increasing the amount (Penal Sum) of the Payment and Performance Bonds furnished by the Subcontractor. The reasonable premiums or other charges paid by the Subcontractor for the procurement of the Rider “A” amendments will be paid as a change to this Agreement.

Severability

ARTICLE XXVII. In the event that any provision or any part of a provision of this Agreement shall be finally determined to be superseded, invalid, illegal or otherwise unenforceable pursuant to applicable laws by an authority having jurisdiction, such determination shall not impair or otherwise affect the validity, legality, or enforceability of the remaining provisions or parts of provisions of this Agreement, which shall remain in full force and effect as if the unenforceable provision or part were deleted.

Business Enterprise Compliance

ARTICLE XXVIII. In the event that the Project or General Contract is subject to any federal, state, or local program(s) requiring Contractor or its subcontractors to meet certain goals or commitments with regard to the award of subcontracts or supply contracts to small and/or disadvantaged businesses, including but not limited to minority owned, woman owned, veteran owned and local businesses, then the provisions of this Article shall apply. Subcontractor acknowledges that: a) the Federal Small Business Program applies if the General Contract is a direct federal government contracts (i.e., contracts awarded by a federal executive agency); b) the Disadvantaged Business Enterprise Program applies to projects that are funded in whole or in part with federal funds, including those funded through a grant awarded to the Owner; c) there are state and local programs that may apply to public projects that are funded by a state or local government; and d) these programs have different eligibility requirements as well as different methods of counting small business, minority, and other designated categories of participation at all subcontracting levels. Subcontractor agrees that it shall fully understand and comply with the rules and regulations of all such programs to the fullest extent applicable to the General Contract, Subcontract or this Agreement.

A. If Subcontractor is or otherwise satisfies the qualifications or requirements of any of the following, or if Subcontractor has in any way represented or given Contractor reason to believe that such is the case: (a) a small business under the Federal Small Business Program (i.e., a small business, a small disadvantaged business (SDB), a HUBZone small business, a
service-disabled veteran-owned small business (SDVOSB), a veteran-owned small business (VOSB), or a women-owned small business (WOSB)) (hereinafter collectively referred to as an “SBE”); (b) a Disadvantaged Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), or Woman Owned Business Enterprise (WBE), or the functional equivalent under federal, state, or local law (hereinafter collectively referred to as a “DBE”); or (c) a category or status designated by state or local authorities which otherwise classifies or designates certain business entities, collectively referred to as Local Business Enterprises (LBEs); then Subcontractor acknowledges, represents, agrees and warrants that: (i) Subcontractor in fact has such status and has obtained all required federal, state, or local certifications of such status; (ii) Contractor is relying upon such representation and status to fulfill any and all SBE, DBE or LBE goals or commitments Contractor has made to the Owner and/or a government agency or as otherwise required of Contractor; (iii) Subcontractor shall maintain its status as an SBE, DBE or LBE throughout the performance of the subcontract or purchase order; (iv) Subcontractor immediately shall notify Contractor if there is a change in Subcontractor’s status as an SBE, DBE or LBE; (v) Contractor has engaged Subcontractor based on Subcontractor’s representation that Subcontractor shall perform in such a manner that 100% of Subcontractor’s Work and 100% of the Subcontract value shall be eligible for credit towards Contractor’s goals and commitments with regard to the award of subcontracts to SBEs, DBEs and/or LBEs; (vi) Subcontractor shall perform in such a manner that Contractor shall be eligible to receive credit towards Contractor’s goals and commitments regarding the award of subcontracts to SBEs, DBEs, and/or LBEs for 100% of the Subcontract value; (vii) Subcontractor will not engage in any effort or take any action that would prevent Contractor from receiving 100% credit; (viii) Subcontractor shall engage in a genuine commercially useful function as defined by law and shall not act as a pass-through to sub-subcontractors, suppliers, or vendors who are not SBEs, DBEs or LBEs; (ix) Subcontractor will not engage in any effort to create the appearance of SBE, DBE or LBE legitimacy or participation when in fact it does not exist; and (x) if Subcontractor awards any of its work through sub-subcontract, purchase order, or otherwise, to an SBE, DBE or LBE, then Subcontractor will do so only in a manner that does not affect the ability to receive credit as described above for 100% of the Subcontract value, including awarding same only to SBE, DBE or LBE sub-subcontractors, suppliers, or vendors if and to the extent necessary to achieve this result.

B. If Subpart A. of this Article is not applicable to Subcontractor, then Subcontractor acknowledges and agrees that the obligations and commitments assumed by Contractor with regard to the award of subcontracts to SBEs, DBEs and/or LBEs, have likewise been assumed by Subcontractor pursuant to this Agreement, including but not limited to meeting or exceeding the same percentage or other requirements or goals for each separate category of SBE, DBE and/or LBE employment in connection with the performance of the Work and satisfying all obligations and responsibilities with respect to reporting and documenting same.

C. The provisions of this Subparagraph C. shall be applicable to all Subcontractors. If or when Subcontractor awards any of its work through sub-subcontract, purchase order, or otherwise, to an SBE, DBE or LBE, to the extent permitted or required by this Agreement, then Subcontractor further acknowledges, represents, agrees and warrants that Subcontractor shall: (i) verify that such SBE, DBE or LBE has such status and has obtained all required federal, state, or local certification of such status; (ii) require its SBE, DBE or LBE sub-subcontractors, suppliers, or vendors to maintain their status as an SBE, DBE or LBE throughout the performance of their sub-subcontract, purchase order, or other agreement; (iii) immediately notify Contractor if there is a change in a sub-subcontractor’s, supplier’s, or vendor’s status as an SBE, DBE or LBE; (iv) require all SBE, DBE or LBE sub-subcontractors, suppliers, or vendors to engage in a genuine commercially useful function as defined by law; (v) ensure that all SBE, DBE or LBE sub-subcontractors, suppliers, or vendors are not acting as a pass-through to another sub-subcontractor, supplier, or vendor who is not a SBE, DBE or LBE; and (vi) not permit a sub-subcontractor, supplier, or vendor to engage in any effort to create the appearance of SBE, DBE or LBE legitimacy or participation when in fact it does not exist.

Subcontractor agrees that: (i) Contractor, or its authorized representative, shall have access to and the right to examine and audit all of Subcontractor’s records relating to Subcontractor’s Work under this Agreement including, but not limited to, lower-tier subcontracts, equipment leases, purchase orders, and other agreements with third parties; (ii) Subcontractor and its sub-subcontractors, vendors and suppliers shall submit any forms, certifications or documents required by Contractor relating to participation on the Project, regardless of whether such forms or documents have been requested or required by the Owner; (iii) failure to honor and comply with any of the terms or conditions of this Article and/or its failure to comply with any applicable law relating to the award of subcontracts to SBEs, DBEs and/or LBEs shall constitute a material breach of this Agreement; (iv) submission by Subcontractor of a monthly requisition for payment or invoice shall constitute a certification by Subcontractor that each and every representation and warranty set forth in this Article is and remains truthful, accurate, and complete, and that Subcontractor is in full compliance with the terms and conditions of this Article, as of the date such requisition or invoice is submitted to Contractor; (v) Contractor may rely on these certifications in making payment to Subcontractor and in making like representations to others; (vi) Contractor shall have the right to withhold payment from Subcontractor if Contractor has reasonable grounds to believe that Subcontractor is not in full compliance with its obligations set forth in this Article; and (vii) that Subcontractor shall include a provision in all agreements with its sub-subcontractors, vendors and suppliers, whereby such sub-subcontractors, vendors and suppliers acknowledge and agree to conduct their operations and affairs in a manner that ensures that Subcontractor is not in violation of any provision in this Article and to provide forms, certifications and documents as required by Contractor or this Article.
ARTICLE XXIX. In the event that the General Contract under which this Subcontract is being issued is a General Contract between Contractor and the United States Government or an agency thereof, additional Federal Acquisition Regulation ("FAR") and agency FAR supplemental provisions are applicable to this Agreement. Such FAR and agency FAR supplemental provisions are contained on the attached document entitled Federal Supplement and such provisions are hereby incorporated by reference herein as if set forth at length herein. Subcontractor hereby ratifies and re-affirms its Subcontractor Certifications and Disclosures that Subcontractor signed and submitted with its proposal submitted earlier to Contractor and such Certifications and Disclosures are hereby incorporated herein by reference as if set forth at length herein.

ARTICLE XXX. This Agreement constitutes the entire agreement between the parties hereto. No oral representations or other agreements have been made by Contractor except as stated in the Agreement. This Agreement may not be changed in any way except as herein provided, and no term or provision hereof may be waived by Contractor except in writing signed by its duly authorized officer or agent. Subcontractor acknowledges and represents that it has completed and submitted to Contractor a prequalification questionnaire, that all statements therein and in the attachments to such questionnaire were true, accurate and complete, and remain true, accurate and complete, and that Contractor has relied on truthfulness, accuracy and completeness of such statements and the contents of the attachments thereto in deciding to enter into this Agreement. The marginal descriptions of any term or provision of this Agreement are for convenience only and shall not be deemed to limit, restrict or alter the content, meaning or effect thereof.

The said parties, for themselves, their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of all of the terms and provisions herein contained.

In Witness Whereof the parties to these presents have hereunto set their hands as of the day and year first above written.

SUBCONTRACTOR

By: SDS
Official title: SDS
Subcontractor’s Federal Employers Identification Number (FEIN) SDS
Subcontractor’s State Unemployment Ins. No. (Insert State and Register No. for State in which the Work is to be performed) SDS
Subcontractor’s License No. (Insert License No., if any, for State or locality in which the Work is to be performed) SDS
Subcontractor’s State Sales Tax Registration No. SDS

CONTRACTOR

By: SDS
Vice-President

By: SDS
Site Furnishings—Bid Package: 32b

This Subcontract shall be identified as "Site Furnishings", and shall include but not limited to the furnishing and installation of items, as required, as identified in Specification 329300 Site & Street Furnishings, and as described herein. All work is to be performed in strict accordance with the contract documents.

Contract Documents

This Subcontractor is responsible for all bid & contract documents, drawings and specifications including, but not limited to, those listed below:

1. 2018-0112 IAAM Bid Set Project Manual (Specifications) Volumes 1 - 4 dated 06/10/19.
2. 20180615 Detyens-IAAM ESMP Approval Letter dated 06/15/2018.
3. IAAM 026113 Contaminated Material Specification

Safety

Documents & Policies:

This Contractor agrees to perform all work in compliance with the following documents and as further enumerated herein:

1. List of referenced forms and policies that are hereby specifically made part of the Contract Documents:
   a. Turner Construction Company Corporate Environmental Health & Safety Program.
   c. This Contractor to abide by all applicable Federal, State and Local Regulations for Safety including, but not limited to OSHA 1926 Rules for Construction, NFPA, ANSI and NEC.

2. General Requirements
   a. This Contractor will have at least one (1) OSHA Construction Safety 30-hr trained employee on site at all times. Two are required if contract value exceeds 5 million. Contractor may complete the 30-Hour Training via www.TurnerUniversity.com online at a cost. Subcontractor must update their 30-hour class every 2-years by completing the Safety Update Training course on Turner University. These requirements must be met prior to work starting and as a condition of Turner Brownstone's acceptance of application for payment corresponding to Contractor's mobilization.
   b. This Contractor is responsible to have their field work forces attend Turner Brownstone's Safety Orientation at Turner Brownstone's field office first day on the job. As new manpower arrives on the jobsite they are to attend this safety orientation prior to the start of any work activities. All contractors will comply with the Turner Brownstone Subcontractor Substance-Abuse Policy. Include cost of 10-panel testing and badging at $52.50 per test. All testing will be administered by FC Background (or agent) prior to orientation with a photo-badge issued by them. Further testing (random, suspicion, etc) will be conducted per our policy. Receipt of FC Background Service Agreement Packet is hereby acknowledged.
c. This Contractor shall schedule with Turner Brownstone a Safety pre-planning meeting prior to start of new work activities/operation. This meeting will be held to coordinate a specific safety plan for this Contractor work. Additional pre-planning meetings will be scheduled, as required for new work activities/operation during the course of the project.

d. Contractor Safety Manager Requirements are as follows:

If the subcontractor will exceed 25 employees or more on site, including sub tiers, for more than two weeks, they must provide a full time Safety Manager for the duration of their work when the workforce exceeds threshold above, who:

a) Is qualified to recognize safety hazards; and  
b) Has the authority to take corrective action; and  
c) Possesses current certifications in first aid, CPR and AED;  
d) Possesses “Competent Person” level training in their area of expertise (such as excavation or electrical safety) and  
e) Possesses a recent OSHA 30-hour card (if not within the last three years Turner Brownstone’s 2 year Safety Update Training has been completed and is up to date through Turner University); and  
f) Has an academic degree in safety, CSP, ASP, or CHST designation, OR has a minimum three (3) years of prior work history as a designated construction safety manager.

At 100 employees, or when one safety manager cannot reasonably manage the workforce due to the distance between crews, provide a second safety manager.

General Requirements for Safety Managers:

The total cost of the above-mentioned safety personnel are to be borne entirely by the subcontractor. Subcontractors will submit the resumes and certifications of potential safety managers for consideration to Turner Brownstone Construction’s Safety Department for approval.

e. The contractor safety manager (when required) and corporate safety director must review Project Manual, Additional Provisions, scope, the Turner Brownstone safety program and plan, and attend the contract buyout meeting with Turner Brownstone.

f. A contractor principal is required to schedule with Turner Brownstone and visit the project quarterly for a safety inspection with Turner Brownstone staff.

g. This contractor acknowledges receipt of the Turner Brownstone Subcontractor Safety Submittal Form. This form shall be completed in its entirety and submitted to Turner Brownstone Safety for review prior to mobilizing to the site. All referenced documents must be attached to the form.

h. This contractor acknowledges that it must deliver the following training, at a minimum, when it applies to its own employees and sub-tiers, and provide Turner Brownstone (upon request) with documentation of:

- Fall Protection Training (all employees)
- Fall Protection Competent Person for applicable supervision
• Scaffold Safety Training (per OSHA)
• Scaffold Competent Person for applicable supervision
• 1st Aid/CPR (current) for at least two on-site employees
• Specific training will be required to operate any equipment.

Other OSHA-required training may apply. Please review Turner Brownstone Subcontractor Safety Submittal Form as well.

i. Turner Brownstone requires all contractors using cranes to have a 3rd-party inspection completed on site after the crane is set up, prior to use, and quarterly thereafter. This excludes small 5 ton or less vendor-owned boom trucks making sporadic drywall and brick deliveries. All crane operators must be currently certified by NCCCO, CIC or NCCER for the type of crane being used and have documented experience on the type of crane to be used. This includes deliveries to the site. Review additional crane and rigging requirements in the Turner Brownstone Site Safety Plan.

j. This project will enforce Turner Brownstone’s “Nothing Hits the Floor” Policy. All trash, debris, and scrap materials are to be placed immediately upon creation into contractor-provided rolling trash hoppers, forklift-mounted hoppers, or other trash collection receptacles that do not require workers to lift and carry. Upon filling any such receptacle, this contractor must remove all of its trash/debris and recyclables from the building to the agreed upon roll-off or dumpster. Provide an ample number of trash receptacles to allow each crew/team that generates waste or recyclables to have one. No “piling” will be allowed on the floors. Construction materials, job-boxes and tools must be stored/staged in approved areas, and never in walkways or stairways. Cords, hoses and welding leads must be kept off the floor at least 8 feet high in walkways, aisles, stairs and access points. Provide non-conductive hanger mechanisms or cord/hose pole-stands.

k. Lay-down and storage areas are extremely limited on site. Contractors are not to bring more materials onto site than they will install during their shift. All materials stored in the building must be staged on wheels to allow for quick and easy relocation. All hole covers must be low-profile and have beveled edges (or be flush-mount where instructed by Turner Brownstone) while still meeting the intent of the OSHA standard for fall protection. This will allow for easy movement of materials on wheels and prevent trip hazards as well. Where feasible, use manufactured hole-covers (examples might include “Paragon” covers, or “The Hole Solution” from Buildings and Matters LLC, or equivalent).

l. “Ladders Last” Policy: Ladders must be considered as a last means of access and egress for all work, and only be used where no other means is possible, with preference given to safer means of access. The primary tool of choice for safely accessing elevated areas is the Mobile Elevated Work Platform (Scissor, Mast or Aerial Lift). When a MEWP cannot be used due to floor load capacity or other condition making it infeasible, other safer means must be selected to include, but not be limited to: JLG LiftPod, EcoLift, “PowerSnappy”, MEC-19 lifts, stairs, rolling stairs, scaffolds and “Tele-towers,” etc. You must provide Turner Brownstone with proof of employee training for whichever method is chosen.

Prior to beginning work, the competent person for the company needing to perform elevated work shall evaluate all tasks that require individuals to work at elevated heights. It is the expectation that these tasks will be performed using methods other than a ladder.
If it is determined that a ladder is the only means of performing the job at elevated height, the Little Giant “Aerial Cage” Ladder should be considered first. Additionally, a Ladders Last Permit must be submitted daily prior to starting the task, along with the PTP. The signed (by Turner Brownstone) Permit must then be affixed to a Type 1A (or 1AA) ladder only. Other ladder types are not allowed. At no time will a ladder be on site without a current permit and safety checklist.

It may be possible to plan and sequence work in a way that minimizes the number of times that a worker has to leave the floor working level via ladder or other means to access other elevations, which often raises the frequency and severity of risk exposure. During Job Safety Analyses and pre-planning, give preference to methods and sequencing that reduce elevated exposure.

Use of job-built ladders is prohibited on Turner Brownstone Construction Projects. Temporary stair towers or prefabricated stairs shall be used to access different building levels. The same rule is applied to frame and system-type scaffolds. No ladders for access.

When working at a height greater than 4 feet, 100% fall protection is also required. A self-retracting lanyard (SRL) is the only option in this case. Podium ladders shall be the ladder of choice on Turner Brownstone Construction projects when a step-ladder must be used. Fall protection is required when standing on the platform.

m. The use of powder-actuated tools with cartridges containing lead or barium is prohibited on Turner Brownstone projects unless the contractor complies fully with the OSHA lead standard in construction and applicable EPA requirements.

n. All contractors must be present at the daily pre-shift 8-minute stretch and flex regimen led by Turner Brownstone Construction. All employees are to be paid for this mandatory attendance.

o. **BUILDING L.I.F.E.® SAFETY PROGRAM**

The subcontractor agrees to participate in the Turner Brownstone Continuous Safety Improvement Process known as Building L.I.F.E. – Living Injury Free Everyday®. Program Goals and Objectives:

- Implementation of a safety improvement process, focused on continuous Risk and Systems Analysis.
- Increase engagement & involvement of front line workers in our safety processes.
- Promote use of positive reinforcement & feedback as a means to influence safe behavior.

The subcontractor agrees to participate in initial training and implementation associated with this program. Training will include but not be limited to management and frontline supervisory staff. This will typically happen at the Preconstruction Meeting, but will also happen when new supervisory staff is assigned.
Hazard Analysis must be completed on the Turner Brownstone “Building LIFE JHA” form and reviewed with this contractor’s work force as they are oriented on site. All subs are required to perform a periodic review of their work to ensure the adequacy of their work plans and JHAs. This review is a Turner Brownstone Lean Process called a “Rapid Improvement Event” and is typically completed by a team of 2 to 4 of this contractor’s front-line employees (non-supervisory). After the review, the team will make suggestions to this contractor’s management and Turner Brownstone Construction’s on ways to improve safety, logistics, material-handling, minimize waste, etc. which could lead to cost savings for this contractor. This contractor should make every effort to accommodate the suggestions where feasible. Each task/JHA will require a Rapid Improvement Event approximately one week after the task begins, and again at approximately 60 and 120 days only if the specific task is still being done by the contractor. The contractor should allow two to four hours for each Rapid Improvement Event.

Once a month, Turner Brownstone will select 5 workers from the entire project workforce to attend a free lunch to discuss safety. When requested, ensure your employee(s) attends during the lunchtime specified. This is typically a half-hour.

Provide one dry-erase board (no smaller than 4’x4’) with markers for each of your crews to use during morning safety huddles. Crew size should not exceed 10 people per foremen unless approved by Turner Brownstone Project Manager.

Once a month, Turner Brownstone may invite 20% of site employees to complete a five minute 10-question Safety Perception Survey (Y/N questions).

Schedule

1. Subcontractor and Turner Brownstone shall work together to establish the most efficient sequencing of the project, and a schedule for handling shop drawings by sequence shall be established.

2. Subcontractor shall deliver shop drawings for approval in packages that allow complete approval of a sequence in accordance with the agreed to schedule. Failure to meet the agreed schedule will jeopardize the plan review process and may lead to delays in approval. Subcontractor shall be held responsible for any delays in approval that result from missing submittal schedules and/or failure to provide submittals that can be approved.

3. See Turner Brownstone Bid Manual for the Project Schedule. Turner Brownstone’s Project Superintendent and the Subcontractors will further develop the detail schedule activities into a working schedule via Last Planner® scheduling techniques. Each Subcontractor will perform their work in accordance with the requirements of Turner Brownstone’s Schedule including work flow, which may change from time to time in order to accommodate changes in sequencing of construction, as required by Turner Brownstone.
of shop drawings and fabrication lead times or specific milestones as deemed necessary will be included).
Maintaining the milestone and durations delineated in the schedule is critical. Any deviation from the original
schedule and any subsequent schedules shall not form the basis for any increase or decrease in Subcontract
Price.

4. The Subcontractor recognizes that time is of the essence for this Contract and has included an assertive,
expeditious approach to assure schedule compliance. The Subcontractor has included all costs required to
achieve the schedule and agrees that no additional overtime or premium payments shall be made for schedule
compliance. All overtime or expediting costs to maintain the schedule are included in this subcontract price. All
expediting costs of other trades caused by this Subcontractor’s failure to meet and maintain the schedule will be
deducted from this subcontract price.

5. Subcontractor recognizes that it is imperative that the Work proceed uninterrupted and shall endeavor to
prevent and shall promptly cure any work stoppage caused by any labor or jurisdictional disputes arising out of
the assignment of work to be performed by the Subcontractor or its subcontractors.

6. The Subcontractor acknowledges and understands that the ability to complete the Work in the least amount
of time is included in this Subcontract and Scope of Work.

7. Subcontractor shall maintain sufficient manpower, materials and equipment at the jobsite to complete this
Work so that the project schedule will not be negatively affected. Subcontractor shall immediately supplement
his resources, if at any point this Subcontractor does not maintain this cycle sufficient for schedule recovery.

8. If and as Subcontractor’s material becomes available and/or work fronts become available, Subcontractor
agrees to provide additional crews to pursue multiple work fronts at no additional cost to Turner Brownstone in
an effort to complete the Work in the least amount of time.

9. See Project Conditions, Section 4 for additional scheduling requirements.

Work Included

General
10. The Work of this Subcontract shall include all the work normally associated with a typical “Site Furnishings”
scope. All work outlined below is incorporated as part of this agreement and included in the Subcontract. One
contracting entity shall be responsible for ALL the Work of this Subcontract even if that requires elements of the
work to be sub-subcontracted. This Subcontractor shall identify work that is being subcontracted and Turner
Brownstone reserves the right to approve sub-subcontractors.

11. This Scope of Work includes the scope of work identified in the Bid Manual as "4.PROJECT CONDITIONS FOR
ALL SUBCONTRACTORS" including all references to parking, drug testing, safety, owner training and extended
warranties.
12. This Subcontractor shall provide all supervision, management, labor, materials, equipment, cartage, hoisting, and everything else necessary to complete this Scope of Work as defined in the bidding documents and outlined herein.

13. This Subcontractor shall include all sales and use taxes. Subcontractor is responsible for any taxes not specifically exempted elsewhere.

14. Subcontractor is responsible for all off-site insurances.

15. Include all required systems and accessories indicated by the Contract Documents. The Work description, conditions, and all attachments are intended to cover all the Work. Work includes any and all equipment, labor, materials and services not indicated herein, but which would be necessary to complete any or all of the Work in a proper, substantial and workmanlike manner, and as required to make a system function as intended, and is included in the Work without additional cost. Any intended omissions or exceptions to the requirements for this scope had been conveyed in writing with the bid submission. Therefore, adjustments to the Subcontract due to absence of details, sizes, components or any other information required for complete and fully operational systems will not be accepted.

16. Textura: Unless otherwise directed or authorized, in writing, by Turner Construction, compile all Payment Applications and all documents (including but not limited to lien waivers, sworn statements, and the like) in electronic format and submit to Turner Construction using the Textura-CPM™ payment management system. Subcontractors shall be responsible for the fees and costs owed and associated with their use of the Textura-CPM™ payment management system. Fees calculated at 0.22% (22 basis points) of the Subcontract value up to $1,704,545 and a maximum fee of $3,750 for Subcontract values above $1,704,545.

17. Professional Liability Insurance: For specific scopes of work where project specifications require stamped and certified design drawings, the Professional Engineer hired by this Subcontractor shall assume professional responsibility for any design work required in this Subcontract including but not limited Structural and Life Safety design components.

   a. This Subcontractor will include PRACTICE (OFFICE) PROFESSIONAL LIABILITY INSURANCE (E&O) for protection from claims arising out of the performance of any design or engineering services performed or furnished in connection with the Work caused by any negligent act error or omission for which Provider and/or the Provider’s Architect(s) and/or Engineer(s) may become legally liable. Such professional liability insurance shall provide for coverage as follows:

      i. Limit of liability - $3,000,000 per occurrence / $3,000,000 aggregate

      ii. Deductible Amount - Not more than $50,000 (payable by the Subcontractor)

   b. Subcontractor agrees that they will maintain [or cause to be maintained] this Professional Liability coverage for the statute of limitations in effect at the state where the project is located. Notify Turner Brownstone of any changes in the policy in subsequent years and will ensure that the policy will not provide less limits or coverage than the current policy."

7
c. Sixty (60) days prior written notice to Turner Brownstone of cancellation of such insurance or any material change with respect thereof.

d. Such professional liability insurance shall be in a form and from a company acceptable to Turner Brownstone and policy shall be available for review by Turner Brownstone as requested.

Additional Safety

18. All personnel involved in rigging must have documentation of training. At least one qualified rigger must be designated as rigging supervisor to oversee, inspect and sign-off on each pick.

19. As part of the safety submittal package, submit a Materials Handling Plan to the Turner Brownstone Safety Manager describing how materials will be offloaded from trucks, distributed to their final installation locations. Special attention must be given to manual material handling tasks and preventing soft-tissue injuries. Use mechanical lifting aids for all material handling unless infeasible. No employee may lift more than 40lbs in any event without mechanical or other personnel assistance.

20. This Subcontractor shall provide and require the use of level 4 or 5 cut-resistant gloves by all workers. Gloves should also have gripping dots or dipped palms.

21. Powder-actuated tools shall not be used on the project unless the cartridges are free of lead and beryllium, or the contractor provides an exposure assessment completed by a certified industrial hygienist showing lead exposures to be experienced are below the OSHA action-levels and established threshold limit values.

22. All site activities that may create dust and crystalline silica exposures must be done using engineering controls/methods that control dust and crystalline silica exposure levels below OSHA and ACGIH Action Levels and Threshold Limit Values (TLV’s). These might include wet methods, HEPA vacuums, shrouds, etc. For all operations not fitting OSHA Silica Table 1, provide air sampling data confirming your work method does not expose workers above the action level for crystalline silica unless respirators will be used. Our goal is to not have to use respirators at all. All heavy equipment brought on site must have enclosed cabs with filtered air.

Preconstruction

23. This Subcontractor shall participate in preconstruction planning meetings as directed by Turner Brownstone.

24. Shop drawings shall coordinate with other materials, such as, but not limited to, concrete footings and grade beams and site utilities

25. Maintain accurate as-built drawings from the beginning and throughout the duration of the project. Submit final as-built drawings within two weeks of the completion of aggregate pier installation.
26. Include complete coordination with other subcontractors as may be required for the proper installation of this work, specifically include coordination as a minimum with the following scopes of work:
   a. Site Work
   b. Concrete
   c. Landscaping

Site Investigation
27. Bidders shall thoroughly review the soils investigation reports available to determine the conditions that may be expected whether visible or hidden. The bid shall be based on unclassified soils and unlimited responsibility for dealing with buried obstructions unless specified otherwise or the Bidder specifically lists the limits of the bid.

28. This Subcontractor shall take precautions to verify that there are no buried utilities or other obstructions in the way of drilling. This Subcontractor shall be responsible for any damages despite drilling where staked if there is any way he could have known that there was a potential conflict.

Protection of the Site
29. This Subcontractor will be responsible for any and all costs necessary for the complete repair of any damages to the existing structures or elements scheduled to remain that may result from the Work.

30. Notify Turner Brownstone immediately of any conflicts with the installation of the Work.

Site Furnishings
31. Unless otherwise directed, this Subcontractor should assume that foundations, where indicated, will be in place prior to installation of items included in this Bid Package.

32. Coordinate with the concrete subcontractor for embeds required for this work.

33. SF6 Kneeling Figures are to be purchased and installed by this subcontractor.

34. Provide coordination for the delivery of the SF6 Kneeling Figures.

35. For cranes used on site, a third-party inspection shall be required prior to use. Documentation shall be provided to Turner Brownstone not less than 48 hours prior to crane mobilization for review by appropriate safety parties.

36. Include one (1) mobilizations/demobilizations. Coordinate phasing and schedule with Turner Brownstone's Superintendent.

37. This Subcontractor shall have a dedicated quality control representative to verify and report all quality control installation procedures per the Contract Documents.
International African American Museum  
Bid Package 32a  
ADDITIONAL PROVISIONS

**Work Excluded**

1. Purchasing of Items designated as furnished by owner.
2. SF2 Sweetgrass Baskets – DELETED FROM PROJECT

**Unit Pricing**

The following unit prices shall apply for additions and deductions in scope. Unit Prices shall include all tax, engineering, bond fees, etc. for a complete cost of the work. Include overhead and profit in these prices. Indicate the range for which the unit is to be applied.

<table>
<thead>
<tr>
<th>Description</th>
<th>Add</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpenter</td>
<td>$45/hr</td>
<td></td>
</tr>
<tr>
<td>Laborer (unskilled)</td>
<td>$15/hr</td>
<td></td>
</tr>
<tr>
<td>Operator</td>
<td>$23/hr</td>
<td></td>
</tr>
<tr>
<td>Overtime</td>
<td>Time in a ½</td>
<td></td>
</tr>
</tbody>
</table>

**Alternates**

It is understood and agreed that the following additions or deductions may be made to the Contract Price. No commitment for material or other costs related to these alternate prices can be made without Turner Brownstone’s written authorization. Alternate prices include overhead, profit, insurance, tax, engineering, small tools, safety, bond fees, and any other miscellaneous costs for a complete cost of work.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
</table>
Pricing Summary

On the Bid Form under Base Bid, this Subcontractor shall split the total sum bid for this Bid Package into the following breakouts for accounting purposes only: [Distribute all general costs, overhead, and profit, proportionally then provide quantity and material cost information – install value is total less material value].

<table>
<thead>
<tr>
<th>Description</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>QCP Kneeling Figure Manufacturing – (1) Mold at $6,300/ea</td>
<td>$6,300.00</td>
</tr>
<tr>
<td>QCP Kneeling Figure Manufacturing – (5) Figures at $1,801/ea</td>
<td>$9,005.00</td>
</tr>
<tr>
<td>QCP Kneeling Figure Manufacturing – (5) Mounting Accessories at $450/ea</td>
<td>$2,250.00</td>
</tr>
<tr>
<td>Installation Equipment – (1) Forklift at $1,071.00/wk</td>
<td>$2,142.00</td>
</tr>
<tr>
<td>Installation Equipment – (1) Misc Tools, Equip, PPE at $450/wk</td>
<td>$450.00</td>
</tr>
<tr>
<td>Labor - 3-4 Workers + Operator $4,286.00/wk</td>
<td>$8,572.00</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>$28,719.00</strong></td>
</tr>
<tr>
<td>OH&amp;P @20%</td>
<td><strong>$5,744.00</strong></td>
</tr>
<tr>
<td>Freight - Allowance of $5,000.00 against actual cost</td>
<td><strong>$5,000.00</strong></td>
</tr>
<tr>
<td><strong>Total Subcontract Amount</strong></td>
<td><strong>$39,463.00</strong></td>
</tr>
</tbody>
</table>
**PROJECT:** International African American Museum  
14 Wharfside Street  
City of Charleston  
823 Meeting Street  
Charleston, SC 29403  

**CONTRACT INFORMATION:**  
Contract For: General Construction  
Date: July 11, 2019  
ARCHITECT: Moody Nolan, Inc.  
300 Spruce Street, Suite 300  
Columbus, OH 43215

**OWNER:** City of Charleston  
823 Meeting Street  
Charleston, SC 29403  

**CONTRACTOR:** Turner Construction Company  
4601 Park Road, Suite 601  
Charlotte, NC 28209

**CHANGE ORDER INFORMATION:**  
Change Order Number: 015  
Date: February 22, 2022  
CONSTRUCTION MANAGER: Cumming Management Group, Inc.  
3820 Faber Place Drive, Suite 600  
N. Charleston, SC 29405

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**THE CONTRACT IS CHANGED AS FOLLOWS:**

*Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.*

PCO No. 0135.2a - Precision Walls claims for roof delay: $86,500.00  
PCO No. 135.3 - CR Hipp, SMS, Nations Roofing claims for Roof Delay: $157,576.00  
PCO No. 177 - Turner Construction General Conditions: $642,850.00  
PCO No. 177.1 - Turner General Conditions Day 2: $174,150.00  
PCO No. 178.1 - City of Charleston Back Charges & Credits: $<127,293.66>  
PCO No. 019 - Pile Cap Redesign B10 and C10: $19,075.00  
PCO No. 021 - Pile Cap B2 C2 B3 C3 Redesign: $24,241.00  
PCO No. 022 - Pile Cap CL8 and CL9 Redesign: $21,179.00  
PCO No. 079 - Roof Parapet Expansion Joint Add: $76,599.00  
PCO No. 080 - Window Shade Addition/Deletion: $4,597.00  
PCO No. 090 - RFI 450 Buffer Tank Steel Add: $18,176.00  
PCO No. 095 - Bulletin 27 - Added Roof Drains: $35,055.57  
PCO No. 109 - 17, 17, 17, 17, 17.3 Granite Wall: $26,872.00  
PCO No. 115 - Bulletin 24 Changes handrail: $14,482.00  
PCO No. 117 - Raised Ceiling Height Change: $60,450.00  
PCO No. 119 - Credit to Owner, Bulletin 28 - MEP Changes: $<982.00>  
PCO No. 129 - SkyLight Changes: $5,953.00  
PCO No. 132 - Pump House Floor Steel: $8,883.00  
PCO No. 133 - Bus Loop: $45,393.00  
PCO No. 136 - Additional Lenses for Lights per Submittal: $11,513.00  
PCO No. 137 - Heat Trace Cable (RFI 434): $5,827.00  
PCO No. 138 - Alternate AE2 Light Fixture: $10,001.00  
PCO No. 139 - Additional DAS Antennas in Ceiling: $8,757.00  
PCO No. 140 - TRK - 2 Light Fixture Changes: $9,522.00  
PCO No. 141 - Barrier Wall Foundations: $31,402.00  
PCO No. 142 - Shaft Wall Changes: $22,018.00  
PCO No. 145 - Wall Extension 2nd FL: $5,927.00  
PCO No. 146 - Backflow Relocation per Design: $14,323.25  
PCO No. 147 - Credit to Owner for Palm Tree to 4" Oak: $<7,955.00>  
PCO No. 148 - Boiler Secondary Feed: $3,802.00  
PCO No. 149 - 3rd Floor Pivots: $6,256.00  
PCO No. 150 - Catwalk Revised Per Bulletin 27: $84,070.00  
PCO No. 151 - Additional Steel Install (RFI 397): $3,394.00  
PCO No. 152 - Additional Steel - ASI 21: $29,974.00  

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**User Notes:**
PCO No. 153 - Additional Steel ASI 26 & ASI 27: $144,265.00
PCO No. 154 - Added Steel Company Switch (RFI 223): $3,358.00
PCO No. 155 - Exterior Door Hardware: $16,401.00
PCO No. 156 - Irrigation Redesign: $35,618.00
PCO No. 157 - Waterproofing & Brick Stucco Changes: $43,104.00
PCO No. 160 - Feeds for the Dock Power: $26,377.00
PCO No. 161 - Generator Test Bank Feeds & Breaker: $7,294.00
PCO No. 162 - Irrigation Water Tap: $33,437.00
PCO No. 167 - CT for Dock Power: $2,120.00
PCO No. 168 - Power for Smoke Dampers: $32,679.00
PCO No. 169 - Floor Drain Move (RFI 452): $9,382.00
PCO No. 171 - Pumphouse Sidewalk: $10,466.00
PCO No. 173 - Planting Changes per City Request: $7,794.00
PCO No. 174 - Height Change to Serpentine Wall: $12,992.84
PCO No. 175 - Additional Trench Drain in Wood Walkway: $8,346.00

Elevator Emergency Power Changes: $12,000.00
Cat Walk Gate: $8,000.00
Atrium Lower Stair Rail: $10,000.00
Curb at Fire Lane: $15,000.00
PCO No. 181 - Framing/Drywall/Paint Door Hardware: $130,475.00
PCO No. 182 - Owner Credit for Kneeling Figures Contract: $<39,463.00>
Allowance Credit #1 - Credit to Owner for return of the unused Owner Sitework Allowance: $<354,644.00>. Allowance now exhausted - $0.00.
Allowance Credit #2 - Credit to Owner for return of the unused Moisture Barrier Allowance: $<65,167.00>. Allowance now exhausted - $0.00.
Allowance Credit #3 - Credit to Owner for return of the unused Owner Contingency Allowance: $<220,500.00>. Allowance now exhausted - $0.00.

TOTAL AMOUNT OF CHANGE ORDER: $1,692,277.00

The original Guaranteed Maximum Price was $58,457,323.00
Net change by previously authorized Change Orders $1,372,329.00
The Guaranteed Maximum Price prior to this Change Order was $59,829,652.00
The Guaranteed Maximum Price will be increased by this Change Order in the amount of $1,692,277.00
The new Guaranteed Maximum Price including this Change Order will be $61,521,929.00

The Contract Time will be unchanged by Zero (0) days.
The Contractor's Work shall be substantially complete on August 31, 2021.

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONSTRUCTION MANAGER, CONTRACTOR, AND OWNER.

Moody Noland, Inc.

ARCHITECT (Firm name)

SIGNATURE
Julie Cook, AIA
PRINTED NAME AND TITLE

DATE:

Turner Construction Company

CONTRACTOR (Firm name)

Cumming Management Group, Inc.

CONSTRUCTION MANAGER (Firm name)

SIGNATURE
Rick W. Holt, Vice President
PRINTED NAME AND TITLE

DATE:

City of Charleston

OWNER (Firm name)

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User Notes: 

(3BBADA41)
# CO 15

## Subcontractor Claims (Roof Delay)

<table>
<thead>
<tr>
<th>Claim Number</th>
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## COR 177.1 General Conditions Turner

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<thead>
<tr>
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<tbody>
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<td>COR 177.1</td>
<td>Turner General Condition</td>
<td>($642,850.00)</td>
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<td>COR 177.1</td>
<td>Turner General Conditions Day 2</td>
<td>($174,150.00)</td>
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<tr>
<td>COR</td>
<td>City of Charleston Back Charges &amp; Credits</td>
<td><strong>$127,293.66</strong></td>
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<td>COR #134</td>
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<td>($128,949.00)</td>
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<td>Bus Loop</td>
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<td>COR 134 GC</td>
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<td><strong>line 38</strong></td>
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<td>COR 135 GC</td>
<td>Subcontractors GC Claims (COR 75 Extension)</td>
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<td>Additional DAS Antennas in Ceiling</td>
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<td>141</td>
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<td>142</td>
<td>Shaft Wall Changes</td>
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<td>Wall Extension 2nd Fl.</td>
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<td>146</td>
<td>Backflow Relocation per Design</td>
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<td>147</td>
<td>A Palm Tree to 4&quot; Oak</td>
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<td>147</td>
<td>B Palm Tree to 6&quot; Oak</td>
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<td>148</td>
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<td>149</td>
<td>3rd Floor Pivots</td>
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<td>Catwalk Revised Per Bulletin 27</td>
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<td>151</td>
<td>Additional Steel Install (RFI 397)</td>
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<td>Additional Steel ASI 26 &amp; ASI 27</td>
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<td>Irrigation Redesign</td>
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<td>Waterproofing &amp; Brick Stucco Changes</td>
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<td>158</td>
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<td>159</td>
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<td>160</td>
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<td>Generator Test Bank Fees &amp; Breaker</td>
<td>($7,294.00)</td>
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<td>162</td>
<td>Irrigation Water Tap</td>
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<td>CT for Dock Power</td>
<td>($2,120.00)</td>
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<td>168</td>
<td>Power for Smoke Dampers</td>
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<td>169</td>
<td>Floor Drain Move (RFI 452)</td>
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<td>171</td>
<td>Pumphouse Sidewalk</td>
<td>($10,466.00)</td>
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<td>173</td>
<td>Planting Changes per City Request</td>
<td>($7,794.00)</td>
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<tr>
<td>174</td>
<td>Height Change to Serpentine Wall</td>
<td>($12,992.84)</td>
</tr>
<tr>
<td>175</td>
<td>Additional Trench Drain in Wood Walkway</td>
<td>($8,346.00)</td>
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<tr>
<td>176</td>
<td>None</td>
<td>NA</td>
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<tr>
<td>177</td>
<td>General Conditions Turner</td>
<td>line 34</td>
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</table>

**Subtotal Outstanding COR's** | ($1,128,450.66) |

<table>
<thead>
<tr>
<th>CO 15 Totals</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Subcontractor Claims (Roof Delay) (Line 27)</td>
<td>($244,076.00)</td>
</tr>
<tr>
<td>COR 177 Turner General Conditions (line 34)</td>
<td>($689,706.34)</td>
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<td>Builders Risk (line 42)</td>
<td>($270,355.00)</td>
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<tr>
<td>Description</td>
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<td>-------------------------------------------------------</td>
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<td>Change Order Requests (line 105)</td>
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<tr>
<td>Total Outstanding Funds for CO 15</td>
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<tr>
<td>Cost to be funded (line 114)</td>
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<tr>
<td>Owner Sitework Allowance Remaining (CO 14) (line 13)</td>
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<tr>
<td>Moisture Barrier Remaining (CO 14) (line 14)</td>
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<td>Owner Allowance Remaining (CO 14) (line 15)</td>
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<tr>
<td><strong>Funds Outside of GMP</strong></td>
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<td>Current GMP (Line 19)</td>
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<tr>
<td>Funds Outside of GMP (increase) (line 120)</td>
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<tr>
<td><strong>New GMP Amount (CO 15)</strong></td>
<td>$61,521,929.00</td>
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</table>
# Change Order, Construction Manager as Adviser Edition

<table>
<thead>
<tr>
<th>PROJECT: (name and address)</th>
<th>CONTRACT INFORMATION:</th>
<th>CHANGE ORDER INFORMATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>International African American Museum 14 Wharfside Street</td>
<td>Contract For: General Construction Date: July 11, 2019</td>
<td>Change Order Number: 015 Date: February 22, 2022</td>
</tr>
<tr>
<td>OWNER: (name and address)</td>
<td>ARCHITECT: (name and address)</td>
<td>CONSTRUCTION MANAGER: (name and address)</td>
</tr>
<tr>
<td>City of Charleston 823 Meeting Street Charleston, SC 29403</td>
<td>Moody Noland, Inc. 300 Spruce Street, Suite 300 Columbus, OH 43215</td>
<td>Cumming Management Group, Inc. 3820 Faber Place Drive, Suite 600 N. Charleston, SC 29405</td>
</tr>
<tr>
<td>CONTRACTOR: (name and address)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turner Construction Company 4601 Park Road, Suite 601 Charlotte, NC 28209</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

- PCO No. 0135.2a - Precision Walls claims for roof delay: $86,500.00
- PCO No. 035.3 - CR Hipp, SMS, Nations Roofing claims for Roof Delay: $157,576.00
- PCO No. 177 - Turner Construction General Conditions: $642,850.00
- PCO No. 177.1 - Turner General Conditions Day 2: $174,150.00
- PCO No. 178.1 - City of Charleston Back Charges & Credits: $<127,293.66>
- PCO No. 019 - Pile Cap Redesign B10 and C10: $19,075.00
- PCO No. 021 - Pile Cap B2 C2 B3 C3 Redesign: $24,241.00
- PCO No. 022 - Pile Cap CL8 and CL9 Redesign: $21,179.00
- PCO No. 079 - Roof Parapet Expansion Joint Add: $76,599.00
- PCO No. 080 - Window Shade Addition/ Deletion: $4,597.00
- PCO No. 090 - RFI 450 Buffer Tank Steel Add: $18,176.00
- PCO No. 095 - Bulletin 27 - Added Roof Drains: $35,055.57
- PCO No. 109 - 17, 17.1, 17.2, 17.3 Granite Wall: $26,872.00
- PCO No. 115 - Bulletin 24 Changes handrail: $14,482.00
- PCO No. 117 - Raised Ceiling Height Change: $60,450.00
- PCO No. 119 - Credit to Owner, Bulletin 28 - MEP Changes: $<982.00>
- PCO No. 129 - SkyLight Changes: $5,953.00
- PCO No. 132 - Pump House Floor Steel: $8,883.00
- PCO No. 133 - Bus Loop: $45,393.00
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- PCO No. 145 - Wall Extension 2nd FL: $5,927.00
- PCO No. 146 - Backflow Relocation per Design: $14,323.25
- PCO No. 147 - Credit to Owner for Palm Tree to 4" Oak: $<7,955.00>
- PCO No. 148 - Boiler Secondary Feed: $3,802.00
- PCO No. 149 - 3rd Floor Pivots: $6,256.00
- PCO No. 150 - Catwalk Revised Per Bulletin 27: $84,070.00
- PCO No. 151 - Additional Steel Install (RFI 397): $3,394.00
- PCO No. 152 - Additional Steel - ASI 21: $29,974.00

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User Notes:
PCO No. 153 - Additional Steel ASI 26 & ASI 27: $144,265.00
PCO No. 154 - Added Steel Company Switch (RFI 223): $3,358.00
PCO No. 155 - Exterior Door Hardware: $16,401.00
PCO No. 156 - Irrigation Redesign: $35,618.00
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PCO No. 171 - Pump House Sidewalk: $10,466.00
PCO No. 173 - Planting Changes per City Request: $7,794.00
PCO No. 174 - Height Change to Serpentine Wall: $12,992.84
PCO No. 175 - Additional Trench Drain in Wood Walkway: $8,346.00
Elevator Emergency Power Changes: $12,000.00
Cat Walk Gate: $8,000.00
Atrium Lower Stair Rail: $10,000.00
Curb at Fire Lane: $15,000.00
PCO No. 181 - Framing/Drywall/Paint Door Hardware: $130,475.00
PCO No. 182 - Owner Credit for Kneeling Figures Contract: $<39,463.00>
Allowance Credit #1 - Credit to Owner for return of the unused Sitework Allowance: $<354,644.00>. Allowance now exhausted - $0.00.
Allowance Credit #2 - Credit to Owner for return of the unused Moisture Barrier Allowance: $<65,167.00>. Allowance now exhausted - $0.00.
Allowance Credit #3 - Credit to Owner for return of the unused Owner Contingency Allowance: $<220,500.00>. Allowance now exhausted - $0.00.

TOTAL AMOUNT OF CHANGE ORDER: $1,692,277.00

The original Guaranteed Maximum Price was
The Guaranteed Maximum Price prior to this Change Order was
The Guaranteed Maximum Price will be increased by this Change Order in the amount of
The new Guaranteed Maximum Price including this Change Order will be

58,457,323.00
1,372,329.00
59,829,652.00
1,692,277.00
61,521,929.00

The Contract Time will be unchanged by Zero (0) days.
The Contractor's Work shall be substantially complete on August 31, 2021.

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONSTRUCTION MANAGER, CONTRACTOR, AND OWNER.

Moody Noland, Inc.
ARCHITECT (Firm name)

Julie Cook - AIA
PRINTED NAME AND TITLE

DATE:

Turner Construction Company
CONTRACTOR (Firm name)

Cumming Management Group, Inc.
CONSTRUCTION MANAGER (Firm name)

Rick W. Holt, Vice President
PRINTED NAME AND TITLE

DATE:

3/2/22

City of Charleston
OWNER (Firm name)

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(3B9ADA41)
## CO 15

### Subcontractor Claims (Roof Delay)

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**Subtotal Outstanding COR's**  
($1,128,450.66)

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<tr>
<td>Change Order Requests (line 105)</td>
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<td>Total Outstanding Funds for CO 15</td>
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<td>Cost to be funded (line 114)</td>
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<td>Owner Sitework Allowance Remaining (CO 14) (line 13)</td>
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<td>Moisture Barrier Remaining (CO 14) (line 14)</td>
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<td>Funds Outside of GMP</td>
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<td>Current GMP (Line 19)</td>
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<tr>
<td>Funds Outside of GMP (increase) (line 120)</td>
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<td>New GMP Amount (CO 15)</td>
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</tbody>
</table>
# Change Order, Construction Manager as Adviser Edition

**PROJECT:** International African American Museum 14 Wharfside Street  
City of Charleston 823 Meeting Street Charleston, SC 29403  
**OWNER:** Turner Construction Company 4601 Park Road, Suite 601 Charlotte, NC 28209

**CONTRACT INFORMATION:**  
Contract For: General Construction  
Date: July 11, 2019  
**ARCHITECT:** Moody Nolan, Inc.  
300 Spruce Street, Suite 300 Columbus, OH 43215

**CHANGE ORDER INFORMATION:**  
Change Order Number: 015  
Date: February 22, 2022  
**CONSTRUCTION MANAGER:** Cumming Management Group, Inc. 3820 Faber Place Drive, Suite 600 N. Charleston, SC 29405

---

**THE CONTRACT IS CHANGED AS FOLLOWS:**  
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

- PCO No. 0135.2a - Precision Walls claims for roof delay: $86,500.00
- PCO No. 135.3 - CR Hipp, SMS, Nations Roofing claims for Roof Delay: $157,576.00
- PCO No. 177 - Turner Construction General Conditions: $642,850.00
- PCO No. 177.1 - Turner General Conditions Day 2: $174,150.00
- PCO No. 178.1 - City of Charleston Back Charges & Credits: $<127,293.66>
- PCO No. 019 - Pipe Cap Redesign B10 and C10: $19,075.00
- PCO No. 021 - Pipe Cap B2 C2 B3 C3 Redesign: $24,241.00
- PCO No. 022 - Pipe Cap CL8 and CL9 Redesign: $21,179.00
- PCO No. 079 - Roof Parapet Expansion Joint Add: $76,599.00
- PCO No. 080 - Window Shade Addition/Deletion: $4,597.00
- PCO No. 090 - RFI 450 Buffer Tank Steel Add: $18,176.00
- PCO No. 095 - Bulletin 27 - Added Roof Drains: $35,055.57
- PCO No. 109 - 17, 17.1, 17.2, 17.3 Granite Wall: $26,872.00
- PCO No. 115 - Bulletin 24 Changes handrail: $14,482.00
- PCO No. 117 - Raised Ceiling Height Change: $60,450.00
- PCO No. 119 - Credit to Owner, Bulletin 28 - MEP Changes:$<982.00>
- PCO No. 129 - SkyLight Changes: $5,953.00
- PCO No. 132 - Pump House Floor Steel: $8,883.00
- PCO No. 133 - Bus Loop: $45,393.00
- PCO No. 136 - Additional Lenses for Lights per Submittal: $11,513.00
- PCO No. 137 - Heat Trace Cable (RFI 434): $5,827.00
- PCO No. 138 - Alternate AE2 Light Fixture: $10,001.00
- PCO No. 139 - Additional DAS Antennas in Ceiling: $8,757.00
- PCO No. 140 - TRK - 2 Light Fixture Changes: $9,522.00
- PCO No. 141 - Barrier Wall Foundations: $31,402.00
- PCO No. 142 - Shaft Wall Changes: $22,018.00
- PCO No. 145 - Wall Extension 2nd FL: $5,927.00
- PCO No. 146 - Backflow Relocation per Design: $14,323.25
- PCO No. 147 - Credit to Owner for Palm Tree to 4' Oak: $<7,955.00>
- PCO No. 148 - Boiler Secondary Feed: $3,802.00
- PCO No. 149 - 3rd Floor Pivots: $6,256.00
- PCO No. 150 - Catwalk Revised Per Bulletin 27: $84,070.00
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PCO No. 161 - Generator Test Bank Feeds & Breaker: $7,294.00
PCO No. 162 - Irrigation Water Tap: $33,437.00
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PCO No. 173 - Planting Changes per City Request: $7,794.00
PCO No. 174 - Height Change to Serpentine Wall: $12,992.84
PCO No. 175 - Additional Trench Drain in Wood Walkway: $8,346.00
Elevator Emergency Power Changes: $12,000.00
Cat Walk Gate: $8,000.00
Atrium Lower Stair Rail: $10,000.00
Curb at Fire Lane: $15,000.00
PCO No. 181 - Framing/Drywall/Paint Door Hardware: $130,475.00
PCO No. 182 - Owner Credit for Kneeling Figures Contract: $<39,463.00>
Allowance Credit #1 - Credit to Owner for return of the unused Owner Sitework Allowance: $<354,644.00>. Allowance now exhausted - $0.00.
Allowance Credit #2 - Credit to Owner for return of the unused Moisture Barrier Allowance: $<65,167.00>. Allowance now exhausted - $0.00.
Allowance Credit #3 - Credit to Owner for return of the unused Owner Contingency Allowance: $<220,500.00>. Allowance now exhausted - $0.00.

TOTAL AMOUNT OF CHANGE ORDER: $1,692,277.00

The original Guaranteed Maximum Price was
Net change by previously authorized Change Orders
The Guaranteed Maximum Price prior to this Change Order was
The Guaranteed Maximum Price will be increased by this Change Order in the amount of
The new Guaranteed Maximum Price including this Change Order will be

The original Guaranteed Maximum Price was $58,457,323.00
Net change by previously authorized Change Orders $1,372,329.00
The Guaranteed Maximum Price prior to this Change Order was $59,829,652.00
The Guaranteed Maximum Price will be increased by this Change Order in the amount of $1,692,277.00
The new Guaranteed Maximum Price including this Change Order will be $61,521,929.00

The contract time will be unchanged by Zero (0) days.
The Contractor's work shall be substantially complete on August 31, 2021.

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONSTRUCTION MANAGER, CONTRACTOR, AND OWNER.

Moody Noland, Inc. Cumming Management Group, Inc.
ARCHITECT (Firm name) CONSTRUCTION MANAGER (Firm name)
SIGNATURE (Signature) SIGNATURE (Signature)
PRINTED NAME AND TITLE Jossey L. Walker Rick W. Holt, Vice President
DATE: 3/2/22

Turner Construction Company City of Charleston
CONTRACTOR (Firm name) OWNER (Firm name)

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User Notes:
## CO 15

### Subcontractor Claims (Roof Delay)

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<tr>
<th>Description</th>
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<tbody>
<tr>
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<tr>
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### COR 177.1 General Conditions Turner

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<tr>
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<tr>
<td>COR 177.1 Turner General Condition</td>
<td>($642,850.00)</td>
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<td>($174,150.00)</td>
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<tr>
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<tr>
<td>COR 177.2 Builders Risk 9/1/21 to 10/31/2021</td>
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<td>COR 177.2 Builders Risk through 12/1/2021</td>
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<td>COR #50 - Bulletin 19 Stair - Delete Non Structure</td>
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<td>COR #79 - Roof Parapet Expansion Joint Add</td>
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Subtotal Outstanding COR's ($1128450.66)

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| COR 177 Turner General Conditions (line 34)                               | ($689,706.34) |
| Builders Risk (line 42)                                                    | ($270,355.00) |</p>
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<tbody>
<tr>
<td>Change Order Requests (line 105)</td>
<td>$(1,128,450.66)</td>
</tr>
<tr>
<td>Total Outstanding Funds for CO15</td>
<td>$(2,332,588.00)</td>
</tr>
<tr>
<td>Cost to be funded (line 114)</td>
<td>$(2,332,588.00)</td>
</tr>
<tr>
<td>Owner Sitework Allowance Remaining (CO14) (line 13)</td>
<td>$354,644.00</td>
</tr>
<tr>
<td>Moisture Barrier Remaining (CO14) (line 14)</td>
<td>$65,167.00</td>
</tr>
<tr>
<td>Owner Allowance Remaining (CO 14) (line 15)</td>
<td>$220,500.00</td>
</tr>
<tr>
<td>Funds Outside of GMP</td>
<td>$(1,692,277.00)</td>
</tr>
<tr>
<td>Current GMP (Line 19)</td>
<td>$59,829,652.00</td>
</tr>
<tr>
<td>Funds Outside of GMP (increase) (line 120)</td>
<td>$1,692,277.00</td>
</tr>
<tr>
<td>New GMP Amount (CO 15)</td>
<td>$61,521,929.00</td>
</tr>
</tbody>
</table>
# Change Order Proposal Review Form

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 2/15/2022  
**Contractor:** Turner Construction Company

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 135.2A R5  
**Contract:** Construction

## Description of work to be performed:
This change is associated with the subcontractor fees associated with the time extension of the original contract. This change is associated with COR 75R3 and COR 122 which extend the contract substantial completion to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable. This proposed change order is covering the general conditions cost that Precision Walls has incurred past original contract substantial completion. The second part of the Precision Walls claim is regarding the delay caused by the issue with the roofing delay. This COR will be numbered as 135.2A and will be in the amount of $86,500.00.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precision Walls 135.2</td>
<td>$173,500.00</td>
</tr>
<tr>
<td>Precision Walls 135.2A</td>
<td>$86,500.00</td>
</tr>
<tr>
<td>Total for Precision Walls</td>
<td>$260,000.00</td>
</tr>
</tbody>
</table>

**Justification:** G - Time Related Change

## Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)
- Cost Estimate (Expected to Exceed $10,000)
- Change Proposal Request from CMR with Detailed Backup

## Proposal Cost (not to exceed):
$86,500.00 Owner Contingency Allow. Bal.

## Time Extension Requested:
Time Extension Recommended:

## Special Circumstances:

## Consequence of Rejection:

## Comments by Supervisor:

---

**Approved:**

- Rick Holt, Cumming Corp.
- Robert Faust, Cumming Corp.
- Edmund V. Most, City of Charleston
- Barnard Costantino, Moody Nolan
- Robert Lazzimer

**Decision needed by:** February 15, 2022

- Mike Risteski, Cumming Corp.
Date Submitted: February 14, 2022

To: Edmund Most  
City of Charleston

Re: International African American Muesum  
Subcontractor General Conditions Claim.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

This COR covers General condition claims by the subcontractors related to the roof project delay previously submitted in COR 75. Per direction the cost was removed from COR and reevaluated. Please see revised costs from Subcontractors.

<table>
<thead>
<tr>
<th>Reason:</th>
<th>Pricing:</th>
<th>Time Impact:</th>
<th>Work Authorization is Requested By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner Directive</td>
<td>ROM Estimate of GR’s &amp; Insurances</td>
<td>Evaluating Potential for Time Impact</td>
<td></td>
</tr>
<tr>
<td>Code / Regulatory</td>
<td>ROM Estimate for Entire PCO</td>
<td>Evaluated - NO TIME IMPACT</td>
<td></td>
</tr>
<tr>
<td>Unforeseen Condition</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td>Design Issue</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: [Signature]  
Contractor: TURNER BROWNSTONE  
02/14/2022  
$840,576  
Amount Requested

$86,500.00

Reviewed By: Program Manager: CUMMING  
Dated

Approved By: Owner: City of Charleston  
$840,576  
Amount Approved

$86,500.00
# General Summary of the Estimate

**COR No.:** 135R5

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SUBTOTAL TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.50%</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
</tr>
<tr>
<td>A14</td>
<td>Builder's Risk</td>
<td>@ 0.84%</td>
</tr>
<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
</tr>
<tr>
<td>A11</td>
<td>Procure</td>
<td>@ 0.4500%</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
</tr>
</tbody>
</table>

**SUBTOTAL** | **$849,576.00**

**ESTIMATE TOTAL** | **$849,576.00**
## TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE ($/LS)</th>
<th>UNIT</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watson - General Conditions</td>
<td>143,000.00</td>
<td>LS</td>
<td>143,000.00</td>
</tr>
<tr>
<td>D Hing - Plumbing - General Conditions</td>
<td>67,000.00</td>
<td>LS</td>
<td>67,000.00</td>
</tr>
<tr>
<td>SMS - HVAC - General Conditions</td>
<td>64,786.00</td>
<td>LS</td>
<td>64,786.00</td>
</tr>
<tr>
<td>P- Walls - Drywall - General Conditions</td>
<td>260,000.00</td>
<td>LS</td>
<td>260,000.00</td>
</tr>
<tr>
<td>Nations - Roofing - General Conditions</td>
<td>26,450.00</td>
<td>LS</td>
<td>26,450.00</td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL**

135.2 Precision Walls 173,500.00
135.2A Precision Walls 86,500.00 This COR
Total Sum 260,000.00

$849,576

$86,500.00
Dear Rick,

Due to the extended duration of the International African American Museum Project, Precision Walls, Inc. is asking for additional compensation of $86,500.00 for general conditions above what the project was bid for. Per the original schedule we should have been off the job site at the end of November 2020, and we are currently still on site as of 8/18/21.

I have attached a graph showing when the original schedule was to be complete and where this extension of time has occurred. I have listed the hours of each person that is defined as overhead (general conditions) per the months that we are asking for compensation.

This extension of time has been caused by numerous items including multiple reworking of our finished work due to changes, trades that have not completed work ahead of our specified start time and added additional work due to architectural changes. To keep the project moving forward we have worked many weekends of overtime doing base contract work and have not asked for any additional compensation.

To determine this compensation, we have assigned our hourly rates which was included in our proposal for the following, general superintendent, foreman, safety manager and project manager. This extended condition compensation would come out to $249,600.00, but to help the project and the City of Charleston, Precision Walls, Inc. would only be asking for $86,500.00 in additional compensation for the extension of general condition costs.

We have been extremely honored to work on such an important project for the City of Charleston and feel we have been a valuable part of the first 19 month of project as well as the extended 9 months of this amazing project.

Sincerely,

Joel Ofsthun
Precision Walls Estimator/PM
**REQUEST FOR CHANGE ORDER**

Ref.#  COR-0030  
GC #                  
Date  Jan 25, 2021  
Job #  19-0998

**To:** Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
**Contact:** Walt Lewis

**Project:** International African American Museum  
14 Wharfside Street  
Charleston, SC

**Description:** 3 month project extension. Added general conditions-site supervision and material handling.

<table>
<thead>
<tr>
<th>Labor</th>
<th># of Men</th>
<th>Qty Hrs</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervision</td>
<td>2</td>
<td>448.00 Hrs</td>
<td>896.00</td>
<td>75.00</td>
<td>$67,200.00</td>
</tr>
<tr>
<td>Safety Supervisor-DW</td>
<td>1</td>
<td>220.00 Hrs</td>
<td>220.00</td>
<td>55.00</td>
<td>$12,100.00</td>
</tr>
<tr>
<td>Material Handling Field-DW</td>
<td>1</td>
<td>160.00 Hrs</td>
<td>160.00</td>
<td>45.00</td>
<td>$7,200.00</td>
</tr>
<tr>
<td><strong>Total Labor</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$86,500.00</td>
</tr>
</tbody>
</table>

**Subtotal for Detail**  $86,500.00

**Total**

<table>
<thead>
<tr>
<th>Total Miscellaneous Charges</th>
</tr>
</thead>
</table>

| Labor Total: | $86,500.00 |

| Sub Total:    | $86,500.00 |

| Mark Up: | $0.00 |

| .00% |

| **Total:**  | $86,500.00 |

| Project Manager | Joel Ofstun |
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Proposal No.: Change Order Request No. 135.3 R5  
Contract: Construction

Description of work to be performed:  
Subcontractor Claims (CR Hipp, SMS, Nations Roofing)

This change is associated with the subcontractor fees associated with the time extension of the original contract.

This change is associated with COR 75R3 and COR 122 which extend the contract substantial completion to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable.

CR Hipp - Plumbing $ 67,000.00  
SMS (HVAC) $ 64,126.00  
Nations - Roofing $ 26,450.00  
Total $157,576.00

Justification: G - Time Related Change

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Cost Estimate from CMR with Detailed Backup  
Change Proposal Request from CMR with Detailed Backup  
X

Proposal Cost (not to exceed): $157,576.00  
Owner Contingency Allow. Bal.

Time Extension Requested: $157,576.00  
Time Extension Recommended:  
Special Circumstances:  

Consequence of Rejection:  
Comments by Supervisor:  

Decision needed by: July 12, 2021

(YES) (NO) Mike Risteski, Cumming Corp.

Approved:  
Rick Holt, Cumming Corp.

(YES) (NO) Robert Faust, Cumming Corp.

(YES) (NO) Edmund V. Most, City of Charleston

(YES) (NO) Bernard Costantino, Moody Nolan

(YES) (NO) Robert LaRocinetti
Date Submitted:  February 14, 2022

To:  Edmund Most
City of Charleston

Re:  International African American Museum
Subcontractor General Conditions Claim.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>This COR covers General condition claims by the subcontractors related to the roof project delay previously submitted in COR 75. Per direction the cost was removed from COR and reevalutated. Please see revised costs from Subcontractors.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>□ ROM Estimate of GR's &amp; Insurances □ ROM Estimate for Entire PCD □ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>□ Evaluating Potential for Time Impact □ Evaluated - NO TIME IMPACT □ Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
</tr>
<tr>
<td></td>
<td>□ Work has been Completed □ Work Has Commenced B/or is Ongoing □ Work Authorization is Requested By:</td>
</tr>
</tbody>
</table>

Submitted By:  Contractor: TURNER BROWNSTONE 02/14/2022 $849,576-
Walter Lewis Project Engineer Dated Amount Requested 157,576.00

Reviewed By:  Program Manager: CUMMING

Approved By:  Owner: City of Charleston $849,576-
Edmund Most Dated Amount Approved 157,576.00
**General Summary of the Estimate**

**International African American Museum**

**Cor No:** 13555

<table>
<thead>
<tr>
<th>DETAIL</th>
<th>TRADE DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>$849,976.00</td>
<td>TRADE DIRECTS</td>
</tr>
<tr>
<td>$0</td>
<td>CONDITIONS (GCS) &amp; GENERAL REQUIREMENTS (GRS) &amp; GENERAL</td>
</tr>
<tr>
<td>$0</td>
<td>CONDITIONS (GCS) &amp; SELF-PERFORMED LABOR</td>
</tr>
</tbody>
</table>

**Subtotal Trade Directs:** $849,976.00

**Subtotal Estimate:** $849,976.00

**586.85**

**$849,976**

**Overhead and Profit:** 2.25% @

**Profit:** 0.4500% @

**Performance and Payment Bond:** 0.07%

**Builders Risk:** 0.84%

**Surety:** 0.12

**CP:** 2.60% @

**Summary of the Estimate:**

- **Amount:** $849,976
- **Profit:** 0.4500% @
- **Overhead:** 2.25% @
- **Performance and Payment Bond:** 0.07%
- **Builders Risk:** 0.84%
- **Surety:** 0.12
- **CP:** 2.60% @

---

**Turner**
TOTAL
$157,756.00

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNITS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMNs - Roomg - General Conditions</td>
<td>$226,450.00</td>
<td>1</td>
<td>$226,450.00</td>
</tr>
<tr>
<td>SRS (HVAC)</td>
<td>$54,120.00</td>
<td></td>
<td>$54,120.00</td>
</tr>
<tr>
<td>CRM - Plumbing</td>
<td></td>
<td></td>
<td>$67,000.00</td>
</tr>
</tbody>
</table>

Additional Scope of Work

GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

DETIAL ESTIMATE OF DIRECTS
    International African American Museum
### Change Order Proposal Review Form

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 2/24/2022  
**Contractor:** Turner Construction Company  
**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 177.1  
**Contract:** Construction

<table>
<thead>
<tr>
<th>Description of work to be performed: General Conditions for Turner Construction</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>This change is associated with the contractor general conditions past the substantial completion and all of the Day 2 work. Due to multiple factors the completion of the project has extended past the contractual substantial completion. In the negotiation between the City and Turner a settlement was reached that the City would cover the general conditions for Turner, however they would charge back certain expenses occurred past the original substantial completion.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turner General Condition</td>
<td>$642,850.00</td>
</tr>
<tr>
<td>Turner General Conditions Day 2</td>
<td>$174,150.00</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>$817,000.00</td>
</tr>
<tr>
<td>City of Charleston Back Charges &amp; Credits</td>
<td>$(127,293.66)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$689,706.34</td>
</tr>
</tbody>
</table>

**Justification:** G - Time Related Change

**Attachments:**  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)  
- Cost Estimate (Expected to Exceed $10,000)  
- Change Proposal Request from CMR with Detailed Backup

**Proposal Cost (not to exceed):** $689,706.34  
**Time Extension Requested:** Time Extension Recommended  
**Special Circumstances:**  
**Consequence of Rejection:**  
**Comments by Supervisor:**

**Approved:**
- Rick Holt, Cumming Corp.
- Robert Faust, Cumming Corp.
- Edmund V. Most, City of Charleston
- Bernard Costantino, Moody Nolan

**Decision needed by:** February 24, 2022  
**(NO) (YES) (Circle One)**  
**Mike Risteski, Cumming Corp.**

**(NO) (YES) (Circle One)**  
**Robert Faust, Cumming Corp.**

**(NO) (YES) (Circle One)**  
**Edmund V. Most, City of Charleston**

**(NO) (YES) (Circle One)**  
**Bernard Costantino, Moody Nolan**
Date Submitted: February 15, 2022

To: Edmund Most
City of Charleston

Re: International African American Muesum

General Conditions and Builders Risk Costs

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:
- Owner Directive
- Code / Regulatory
- Unforeseen Condition
- Design Issue

Pricing:
- ROM Estimate of GR's & Insurances
- ROM Estimate for Entire PCO
- Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
- Evaluating Potential for Time Impact
- Evaluated - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- Work Has Commenced &/or is Ongoing
- Work Authorization is Requested By:

Submitted By: Contractor: TURNER BROWNSTONE

02/15/2022

$ 934,719
Amount Requested

$ 689,706.34

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

Dated

$ 934,719
Amount Approved

$ 689,706.34
**ESTIMATE TOTAL**

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.25% @ Overhead and Profit</td>
<td>$0.00</td>
</tr>
<tr>
<td>0.45% @ Percent</td>
<td>$0.00</td>
</tr>
<tr>
<td>2.50% @ Profit Core</td>
<td>$0.00</td>
</tr>
<tr>
<td>0.07% 2 @ Performance and Payment Bond</td>
<td>$0.00</td>
</tr>
<tr>
<td>0.84% @ Builders Risk</td>
<td>$0.00</td>
</tr>
<tr>
<td>2.012 @ Subgrd CIP</td>
<td>$0.00</td>
</tr>
<tr>
<td></td>
<td>$934.719</td>
</tr>
</tbody>
</table>

**SUBTOTAL** $934.719

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$934.719.00</td>
</tr>
<tr>
<td><strong>TRADING DIRECTS</strong></td>
<td></td>
</tr>
<tr>
<td>20 GENERAL REQUIREMENTS (G.R.)</td>
<td></td>
</tr>
<tr>
<td>CONDITIONS (G.C.)</td>
<td></td>
</tr>
<tr>
<td>MATERIALS &amp; EQUIPMENT</td>
<td></td>
</tr>
<tr>
<td>20 SELF-FORMED LABOR</td>
<td></td>
</tr>
<tr>
<td>CONDITIONS (G.C.)</td>
<td></td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (G.R.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DESCRIPTION OF WORK</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COR No.** 117

General Summary of the Estimate

International African American Museum

Turner
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 134 R1  
Contract: Construction  

Description of work to be performed: Builders Risk Insurance  
This change is associated with the additional insurance needed to cover the owner until substantial completion. This change is associated with COR 75R3 and COR 122 which extend the contract substantial completion to August 31, 2021. This extension covers 87 compensable days and 55 non-compensable.

Justification: G - Time Related Change

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed): $128,949.00  
Owner Contingency Allow. Bal.  
Time Extension Requested: $128,949.00  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: September 30 2021  

(NO) (YES) (Circle One)  
Mike Risteski, Cumming Corp.

Approved:  

(NO) (YES) (Circle One)  
Rick Holl, Cumming Corp.

(NO) (YES) (Circle One)  
Robert Faust, Cumming Corp.

(NO) (YES) (Circle One)  
Edmund V. Most, City of Charleston  

(NO) (YES) (Circle One)  
Bernard Costanzo, Woody Notar

(NO) (YES) (Circle One)  
Bernard Costanzo, Woody Notar
COR #: 134

TURNER BROWNSTONE
14 Wharfside Street
Charleston, SC

Re: International African American Muesum
Builders Risk Policy - Extention

Date Submitted: June 24, 2021

To:  Edmund Most
City of Charleston

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

To Extend Builders Risk Policy from 4/15 to 8/31 per the new Contract Substantial completion date.

Reason:  [X] Owner Directive

Pricing:
[ ] ROM Estimate of GR's & Insurances
[ ] ROM Estimate for Entire PCO
[ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
[ ] Evaluating Potential for Time Impact
[ ] Evaluated - NO TIME IMPACT
[ ] Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)
[ ] Work Has Commenced &/or is Ongoing

Submitted By: Walter Lewis  Project Engineer

6/24/2021

$128,949

Contractor: TURNER BROWNSTONE

Requested Action:
[ ] Authorized to Proceed While Pricing
[ ] Price Only
[ ] Do Not Proceed or Price

Authorized Action:
[ ] Authorized to Proceed While Pricing
[ ] Price Only
[ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

/ / Dated

Approved By: Owner: City of Charleston

/ / Dated

$128,949

Amount Approved
<table>
<thead>
<tr>
<th>COR No.</th>
<th>134</th>
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General Summary of the Estimate
International African American Museum

<table>
<thead>
<tr>
<th>Item</th>
<th>Description of Work</th>
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<tbody>
<tr>
<td>134</td>
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<tr>
<th>CONDITIONS (GC's) &amp; GENERAL REQUIREMENTS (GR's)</th>
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<td>MATERIALS &amp; EQUIPMENT</td>
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<tr>
<th>CONDITIONS (GC's) &amp; SELF-PERFORMED LABOR</th>
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<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL</td>
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<th>PERFORMANCE AND PAYMENT BOND</th>
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<tr>
<td>Builders Risk</td>
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<td>Subcontract</td>
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<th>Overage and Profit</th>
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### Direct Work Subtotal

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</tbody>
</table>

Estimated Additional Premium to extend to 10/01/2021 (from 09/30/2021) - $473,776
Estimated Additional Premium to extend to 09/15/2022 (from 08/31/2021) - $58,097

If Va/Ma needs Turner to extend coverage below are the rates for the terms listed:

<p>| | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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### Description

#### TRADE DIRECTS

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#### GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)

<p>| | | | | | | | | |</p>
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</table>

**COR No.: 134**

International African American Museum
Richard F. Davis | Project Executive
Turner Construction Company
404-504-3700 | mobile 404-456-3101

From: Prescott, Blakely C - (CAR) <bprescott@tcco.com>
Sent: Wednesday, February 10, 2021 3:23 PM
To: Davis, Richard F - (ATL) <rfdavis@tcco.com>
Subject: RE: BRI QUOTE Request/190795 International African American Museum

Rick,
Please see the quote below for a BRI extension through 07/31/2021 on IAAM (190795). The below is still based on the current policy volume of $58,457,323.

The main difference in my quote vs the TSIB quote is due to the flood rate. I confirmed with TSIB that the flood rate is .06, not .07 as indicated on the original cert. The total flood premium with the extension is $70,149 and we’ve already paid $68,163 of that value per the original BRI policy.

Please let me know if you have any questions or need any additional information.

Blakely Prescott | Insurance Manager
Turner Construction Company
mobile 980.395.3355 | bprescott@tcco.com
website

From: brcertrequest <brcertrequest@tcco.com>
Sent: Wednesday, February 10, 2021 1:13 PM
To: Prescott, Blakely C - (CAR) <bprescott@tcco.com>
Subject: RE: Urgent Request! RE: BRI QUOTE Request/190795 International African American Museum

Hi Blakely,

Additional Premium is as follows:

- Base: $13,658
- Wind: $44,466
- Flood: $1,986
- EQ: $23,447
- Terrorism: $977
- **Additional Premium**: **$84,534**
From: Prescott, Blakely C - (CAR) <bprescott@tcco.com>
Sent: Wednesday, February 10, 2021 10:10 AM
To: brcertrequest <brcertrequest@tcco.com>
Subject: Urgent Request! RE: BRI QUOTE Request/190795 International African American Museum
Importance: High

Good morning! Can I please get a quote today to extend the builder’s risk policy for 190795 International African American Museum to 07/31/2021? We need to provide pricing to the Owner today. Please note this is for a QUOTE ONLY.

Blakely Prescott | Insurance Manager
Turner Construction Company
mobile 980.395.3355 | bprescott@tcco.com
website

From: Prescott, Blakely C - (CAR)
Sent: Tuesday, February 9, 2021 10:41 AM
To: brcertrequest <brcertrequest@tcco.com>
Subject: RE: BRI QUOTE Request/190795 International African American Museum
Importance: High

Good morning! Following up on the request below for a BRI extension quote if you can please provide given the wind, earthquake, and flood additional premiums. Thanks.

Blakely Prescott | Insurance Manager
Turner Construction Company
mobile 980.395.3355 | bprescott@tcco.com
website

From: Prescott, Blakely C - (CAR)
Sent: Wednesday, February 3, 2021 5:47 PM
To: brcertrequest <brcertrequest@tcco.com>
Subject: BRI QUOTE Request/190795 International African American Museum
Importance: High

Good evening! Can you please provide a **QUOTE ONLY** at this time to extend the builder’s risk policy for 190795 International African American Museum to **07/31/2021**?

The current expiration is 3/31/2021 and please note an A/P applies for Coastal Windstorm (June & July 2021), Flood (Zone 1), and Earthquake. I’ve attached the original cert issued for your reference. Please provide as soon as possible. Thanks!

Blakely Prescott | Insurance Manager
Turner Construction Company
mobile 980.395.3355 | bprescott@tcco.com
website
### Original

**ORIGINAL Contract Volume**
$58,457,323

Delay In Completion:

<table>
<thead>
<tr>
<th>Term in No. of Days:</th>
<th>Wind Term in No. of Days:</th>
<th>Wind in Months:</th>
</tr>
</thead>
<tbody>
<tr>
<td>608</td>
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</table>

<table>
<thead>
<tr>
<th>Ded.</th>
<th>Annual Base Rate/$100*</th>
<th>Adj Term (days)</th>
<th>Term Rate/$100</th>
<th>Term Premium</th>
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</thead>
<tbody>
<tr>
<td>Base Rate</td>
<td>$10,000</td>
<td>608</td>
<td>0.11644</td>
<td>$68,065</td>
</tr>
<tr>
<td>Earthquake</td>
<td>0.12000</td>
<td>608</td>
<td>0.1989</td>
<td>$116,851</td>
</tr>
<tr>
<td>Flood</td>
<td>0.07000</td>
<td>608</td>
<td>0.11660</td>
<td>$68,163</td>
</tr>
<tr>
<td>Windstorm</td>
<td>0.04000</td>
<td>303</td>
<td>0.40000</td>
<td>$233,829</td>
</tr>
<tr>
<td>Mold</td>
<td>0.00000</td>
<td>608</td>
<td>0.00000</td>
<td>0.00</td>
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<tr>
<td>Delay in Completion</td>
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<td>0.00000</td>
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**ORIGINAL PREMIUM TOTAL FROM BINDER**
$491,777

**Actual BRI Cert Premium**
$491,778.00

### END #2

**ORIGINAL Contract Volume**
$58,457,323

Delay In Completion:

<table>
<thead>
<tr>
<th>Term in No. of Days:</th>
<th>Wind Term in No. of Days:</th>
<th>Wind in Months:</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Flood</td>
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<td>0.12000</td>
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<td>Windstorm</td>
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<tr>
<td>Delay in Completion</td>
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<td>730</td>
<td>0.00000</td>
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<tr>
<td>Terrorism</td>
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<td>730</td>
<td>0.01000</td>
<td>$5,846</td>
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**ORIGINAL PREMIUM TOTAL FROM BINDER**
$576,311

**CO Value to Owner (122 day extension; 2 months wind zone; flood zone 1 & earthquake)**
$84,533

### Extension Quote 05-03-2021

**ORIGINAL Contract Volume**
$58,457,323

Delay In Completion:

<table>
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<tr>
<th>Term in No. of Days:</th>
<th>Wind Term in No. of Days:</th>
<th>Wind in Months:</th>
</tr>
</thead>
<tbody>
<tr>
<td>758</td>
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<th>Adj Term (days)</th>
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<tbody>
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<td>Flood</td>
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**ORIGINAL PREMIUM TOTAL FROM BINDER**
$609,208

**Actual BRI Cert Premium**
$32,897.02
## ORIGINAL Contract Volume

$58,457,323

### Delay in Completion:

### ORIGINAL Start Date

8/1/2019

### ORIGINAL Completion Date

3/31/2021

### Term in No. of Days:

608

### Wind Term in No. of Days:

303

### Wind in Months:

9.9

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$32,897

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## Extension Quote 06-21-2021

### ORIGINAL Contract Volume

$59,829,652

### Delay in Completion:

### ORIGINAL Start Date

8/1/2019

### ORIGINAL Completion Date

8/31/2021

### Term in No. of Days:

761

### Wind Term in No. of Days:

394

### Wind in Months:

12.9

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<tr>
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$627,117 | $17,909.03

$17,909 | 3524
ZURICH

Zurich American Insurance Company
(A stock company herein called the Company)
Administrative Offices: 1299 Zurich Way; Schaumberg, Illinois 60196

CERTIFICATE OF INSURANCE

CERTIFICATE PERIOD 08/01/19 to 08/31/21  CERTIFICATE NUMBER CRT 2055837-00

This Certificate follows the terms and conditions of ZURICH AMERICAN INSURANCE COMPANY Policy MBR 4550345-13

This certificate neither affirmatively nor negatively amends, extends or alters the coverage, limits, terms or conditions of the Master policy unless expressly stated herein.

NAMED INSURED
(include address)

TURNER CONSTRUCTION COMPANY
3 Paragon Drive
Montvale, NJ 07645

ADDITIONAL INSURED
(include address)

To the extent required by any contract or subcontract for the 190795-International African American Museum project, and then only as their respective interests may appear, all owners, all contractors and subcontractors of every tier, and tenants at the project location, are recognized as Additional Named Insureds hereunder. As respects architects, engineers, manufacturers and suppliers, their interest is limited to their site activities only.

LOSS PAYEE
(include address)

MORTGAGEE
(include address)

PROJECT LOCATION
(include address)

190795-International African American Museum
Concord St and Inspection St,
Charleston, SC 29403

PROJECT DESCRIPTION
(Structural type, size, material type, occupancy, etc.)
(If renovation or rehab, be specific)

The project is new construction of a 41,760sf elevated building, containing 22,280sf of exhibit space and 10,175sf of support and re search space on the main floor with a 7,610sf office/mechanical penthouse. The project includes significant landscape exh
Construction Type: New Construction
Scope of Work: Community Centers
Term (Days): 761
Project Value: $59,829,652
BR Comment: Endt. 2 - Term extended to 8/31/2021 (8/28/2021) CV increased to $59,829,652 ($58,457,323)

COVERAGE
Contractor's Wrap Around
(Place X in all applicable coverage blocks)

<table>
<thead>
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<th>Coverage</th>
<th>Annual Rate/ $100</th>
<th>Term Rate/ $100</th>
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<td>.2502</td>
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<td>Flood</td>
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<td>.1251</td>
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<td>Damage To Existing Property</td>
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<td>.0000</td>
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<td>State Surcharge</td>
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</tbody>
</table>
# STANDARD COVERAGE TERMS

(Coverage shall only apply under this Certificate to those individual Limits, Sub-limits and Aggregate Limits for which a value is entered below, but in no event these Sub-limits and Aggregate Limits shall exceed the limit of liability.)

<table>
<thead>
<tr>
<th>LIMIT OF LIABILITY</th>
<th>$ 59,829,652</th>
<th>Any One OCCURRENCE During The Certificate Period</th>
</tr>
</thead>
</table>

### SUB-LIMITS OF LIABILITY
(Sublimits per OCCURRENCE except Delay In Completion as Certificate Aggregate)

- **$ 59,829,652** Physical Damage to the INSURED PROJECT
- **$ 250,000** Delay In Completion (see coverage terms below for specific sublimits)
- **$ 5,000,000** Physical Damage To Property In Transit - Any One Conveyance
- **$ 5,000,000** Physical Damage To Property In Offsite Storage - Any One Location
- **$ 2,500,000** Architects and Engineers Fees
- **$ 5,000,000** Expediting Expense and Contractor's Extra Expense, combined
- **$ 250,000** Mold Per Occurrence/ $250,000 Per Project Aggregate
- **$ 500,000** Physical Damage To Plans, Blueprints, Drawings, Renderings, Specifications Or Other Contract Documents And Models At The Insured Project
- **$ 20,000,000** Ordinance of Law / Demolition & Increased Cost of Construction
- **$ 2,000,000** Of the amount of insured physical loss or damage to Covered Property, whichever is less - Debris Removal Coverage
- **$ 100,000** Emergency Property Protection Expense – In the Certificate Term
- **$ 250,000** Fire Department Service Charges
- **$ 5,000** Fire Protective Equipment Refills
- **$ 250,000** Claims Preparation Costs
- **$ 250,000** Pollution/Contaminant Clean up
- **$ 250,000** Maximum any one item - Trees, Plants, and Shrubs
- **$ 250,000** Better Green Coverage

### ANNUAL AGGREGATES
(Aggregate limits apply to each annual period within this Certificate beginning on the Certificate inception date)

- **$ 25,000,000** By The Peril Of EARTHQUAKE
- **$ 25,000,000** By The Peril Of NAMED STORM
- **$ 15,000,000** By The Peril Of FLOOD

### DEDUCTIBLES
(Deductibles apply per OCCURRENCE)

- **$ 10,000** Physical Damage, Except
- **$ 2.5% Min. of $100K** EARTHQUAKE
- **$ 5% Min. of $250K** NAMED STORM
- **$ 250,000** FLOOD
- **$ 50,000** WATER DAMAGE
- **n/a** HOT TESTING

Calendar Day Deductible Period – Delay In Completion - Standard Coverage

Calendar Day Deductible Period – Delay In Completion - Optional Coverage

### HOT TESTING PERIOD TERMS

(If an X is entered in the coverage block on page one the following must be provided)

**HOT TESTING PERIOD:** _______ Days

---

Page 2 of 4

06/22/2021
**DELAY IN COMPLETION COVERAGE TERMS**

(Coverage for Delay in Completion shall only apply under this Certificate when this section is completed in its entirety.)

*This section only needs to be completed for limits in excess of $500,000.*

### NAMED INSURED & BUSINESS ADDRESS

### ANTICIPATED DATE OF COMPLETION

<table>
<thead>
<tr>
<th>PERIOD OF INDEMNITY</th>
<th>Calendar Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject to individual Certificate Aggregate sublimits shown below, the total Certificate Aggregate sublimit for which the Company shall be liable is</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CERTIFICATE AGGREGATE SUB-LIMITS OF LIABILITY</th>
<th>Loss Of Gross Earnings</th>
<th>Loss Of Rental Income</th>
<th>Soft Costs / Additional Expense</th>
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</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
</tbody>
</table>

When a Certificate Aggregate Sub-limit is entered for Soft Costs / Additional Expense above, coverage shall be further limited to the individual Certificate Aggregate Sub-limits entered to the right:

<table>
<thead>
<tr>
<th>Coverage Term</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interim Interest Expense</td>
<td>$</td>
</tr>
<tr>
<td>Realty Taxes / Ground Rents</td>
<td>$</td>
</tr>
<tr>
<td>Advertising Expense</td>
<td>$</td>
</tr>
<tr>
<td>Commission Expense</td>
<td>$</td>
</tr>
<tr>
<td>Architect / Engineer Fees</td>
<td>$</td>
</tr>
<tr>
<td>Project Administration Expense</td>
<td>$</td>
</tr>
<tr>
<td>Legal / Accounting Fees</td>
<td>$</td>
</tr>
<tr>
<td>Insurance Premiums</td>
<td>$</td>
</tr>
</tbody>
</table>

### OTHER COVERAGE TERMS / CONDITIONS

(Identify other terms and conditions below that apply to this Certificate)

### COVERAGE INFORMATION

This is to certify that the policies of insurance listed herein have been issued to the insured named herein for the policy period indicated. Notwithstanding any requirement, term or condition of any contract or other document with respect to which the certificate may be issued or may pertain, the insurance afforded by the policies listed herein is subject to all terms, conditions and exclusions of such policies. Limits shown may have been reduced by paid claims.

### CANCELLATION

The company may only cancel this policy in the event of non-payment of the premium due by mailing written notice stating when, not less than ten (10) days thereafter such cancellation shall be effective, to the named insured at the address shown in the policy.

---

Turner Surety & Insurance Brokerage. By:

Issued By:
IMPORTANT DISCLOSURE NOTICE

We are making the following informational disclosures in compliance with The Terrorism Risk Insurance Act of 2002. No action is required on your part.

Disclosure of Terrorism Premium

The premium charge for risk of loss resulting from acts of terrorism (as defined in the Act) under the policy(ies) This amount is $ 167.

Disclosure of Availability of Coverage for Terrorism Losses

As required by the Terrorism Risk Insurance Act of 2002, the member companies of Zurich North America make available coverage for losses resulting from acts of terrorism (as defined in the Act) with terms, amounts, and limitations that do not differ materially as those for losses arising from events other than acts of terrorism.

Disclosure of Federal Share of Insurance Company’s Terrorism Losses

The Terrorism Risk Insurance Act of 2002 establishes a mechanism by which the United States government will share in insurance company losses resulting from acts of terrorism (as defined in the Act) after an insurance company has paid losses in excess of an annual aggregate deductible. For 2002, the insurance company deductible is 1% of direct earned premium in the prior year; for 2003, 7% of direct earned premium in the prior year; for 2004, 10% of direct earned premium in the prior year; and for 2005, 15% of direct earned premium in the prior year. The federal share of an insurance company’s losses above its deductible is 90%. In the event the United States government participates in losses, the United States government may direct insurance companies to collect a terrorism surcharge from policyholders. The Act does not currently provide for insurance industry or United States government participation in terrorism losses that exceed $100 billion in any one calendar year.

Definition of Act of Terrorism

The Terrorism Risk Insurance Act defines "act of terrorism" as any act that is certified by the Secretary of the Treasury, in concurrence with the Secretary of State and the Attorney General of the United States:

1. to be an act of terrorism;
2. to be a violent act or an act that is dangerous to human life, property or infrastructure;
3. to have resulted in damage within the United States, or outside of the United States in the case of an air carrier (as defined in section 40102 of title 49, United 17 States Code) or a United States flag vessel (or a vessel based principally in the United States, on which United States income tax is paid and whose insurance coverage is subject to regulation in the United States), or the premises of a United States mission; and
4. to have been committed by an individual or individuals acting on behalf of any foreign person or foreign interest as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.

But, no act shall be certified by the Secretary as an act of terrorism if the act is committed as part of the course of a war declared by Congress (except for workers’ compensation) or property and casualty insurance losses resulting from the act, in the aggregate, do not exceed $5,000,000.

These disclosures are informational only and do not modify the policy or affect your rights under the policy.
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteksi  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 177.2  
Contract: Construction

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>Builders Risk from 9/1/21 to 1/1/2022</th>
</tr>
</thead>
</table>
This change is associated with the payment for the Builders Risk Insurance from 9/1/2021 to 1/1/2022. As per the contract documents, if the GMP contract extends past the contractual completion date, Turner will be reimbursed for additional insurance costs incurred through the Builders Risk Insurance at the actual costs. |

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>COR 177.2 Builders Risk 9/1/21 to 10/31/2021</td>
<td>$ 74,406.00</td>
</tr>
<tr>
<td>COR 177.2 Builders Risk though 12/1/2021</td>
<td>$ 37,000.00</td>
</tr>
<tr>
<td>COR 177.2 Builders Risk 12/1/2021 to 1/1/2022</td>
<td>$ 30,000.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 141,406.00</strong></td>
</tr>
</tbody>
</table>

Justification: G - Time Related Change

Attachments:  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  
X

Proposal Cost (not to exceed): $141,406.00  
Owner Contingency Allow. Bal.  
Time Extension Recommended:  
Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:  

Decision needed by: February 24, 2022  
(Circle One)  
(N0) (YES) Mike Risteksi, Cumming Corp.

Approved:  
(Circle One)  
(N0) (YES) Rick Holt, Cumming Corp.

Bernard Costantino, Moody Nolan  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston

(YES)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &amp;/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.</th>
</tr>
</thead>
</table>

|---------|-----------------|-------------------|----------------------|--------------|

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
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</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
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</tbody>
</table>

**Submitted By:**

Contractor: **TURNER BROWNSTONE**

02/15/2022

$934,719

$141,406.00

**Requested Action:**

Authorized to Proceed While Pricing | Price Only | Do Not Proceed or Price

**Authorized Action:**

Authorized to Proceed While Pricing | Price Only | Do Not Proceed or Price

**Reviewed By:**

Program Manager: **CUMMING**

Dated

**Approved By:**

Owner: **City of Charleston**

Dated

$934,719

$141,406.00
<table>
<thead>
<tr>
<th>Description of Work</th>
<th>ITEM</th>
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<tbody>
<tr>
<td>Conditions (GC) &amp; General Requirements (CRS)</td>
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<tr>
<td>Materials &amp; Equipment</td>
<td>2</td>
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<td>Self Performed Labor</td>
<td>3</td>
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**Trade Directs**

- $3,934,719.00
- $0.00
- $0.00
- $0.00
- $0.00
- $0.00
- $0.00
- $0.00

**Estimate Total**

- $934,719

**Cor No.:** 177

General Summary of the Estimate

International African American Museum
<table>
<thead>
<tr>
<th>Description</th>
<th>Units</th>
<th>Rate 1</th>
<th>Subtotal</th>
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<tr>
<td>$144.0600</td>
<td>1</td>
<td>$144.0600</td>
<td>$144.0600</td>
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<tr>
<td>$773.9300</td>
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<td>$773.9300</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$918.0900</strong></td>
</tr>
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</table>

**Notes:**
- The COR is a negotiated rate less than the approved rate.
- Turner's daily agreed upon daily rate for this project is $997.00 additional scope of work.

**General Requirements (G.R.S.) & General Conditions (G.C.)**

**Terminology:**
- COR: Contract Rate Of...
**Change Order Proposal Review Form**

**To:** Edmund V. Most  
**From:** Mike Ristinski  
**Date:** 6/22/2021  
**Project:** CP 1425 International African American Museum  
**Contractor:** Turner Construction Company

### Description of work to be performed:

Pile Cap Modifications @ Column Line B-10 and C-10

This is a request to access the Construction Contingency to cover design modification (Added rebar and concrete in the pile caps to accommodate the piles that were installed out of tolerance due to unforeseen debris encountered during installation). This caused the piles to be offset from their anticipated final location.

### Justification:

F - Unforeseen Conditions

### Attachments:

- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

### Proposal Cost (not to exceed):

$19,075.00  
Owner Contingency Allow. Bal.

### Time Extension Requested:

Time Extension Recommended:  

### Special Circumstances:

This change will net in a $0.00 contract modification as the $960,000.00 Owner Contingency allowance will be accessed to cover the cost of this scope.

### Consequence of Rejection:


### Comments by Supervisor:


### Decision needed by:

June 22, 2021

### Approved:

Rick Hail, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmond V. Most, City of Charleston  
Bernard Costantino, Moody Nolan

(Circle One)  
(NO) (YES)  

(Circle One)  
(NO) (YES)  

(Circle One)  
(NO) (YES)  

(Circle One)  
(NO) (YES)  

(Circle One)  
(NO) (YES)  

(Circle One)  
(NO) (YES)  

(Circle One)  
(NO) (YES)  

(Circle One)  
(NO) (YES)  

(Circle One)
Date Submitted: February 17, 2020

To: Edmund Most
City of Charleston

Re: Internation African American Muesum
Pile Cap B10 and C10 - Rebar Changes

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to add additional rebar to pile caps because of unforeseen conditions. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start without signed change order.


Pricing: [ ] ROM Estimate of GR's & Insurances  [ ] ROM Estimate for Entire PCO  [x] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [ ] Evaluating Potential for Time Impact  [x] Evaluated - NO TIME IMPACT  [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Work has been Completed  Work Has Commenced &/or is Ongoing  Work Authorization is Requested By:

Submitted By: Contractor: TURNER BROWNSTONE

2/17/2020 $ 19,075 Amount Requested

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Authorized Action:

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Approved By: Owner: City of Charleston

$ 19,075 Amount Approved

Edmund Most Dated
<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Directs</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements (GRS) &amp; General Requirements (GCS)</td>
<td>$0</td>
</tr>
<tr>
<td>Conditions (GCS)</td>
<td>$0</td>
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<tr>
<td>Material(s) &amp; Equipment</td>
<td>$0</td>
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<tr>
<td>Subtotal</td>
<td>$17,554.00</td>
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<tr>
<td>Trade Directs</td>
<td>$17,554.00</td>
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**Cor No.:** 19

General Summary of the Estimate

International African American Museum

Turner
<table>
<thead>
<tr>
<th>COR No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
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</table>

### Trade Directs

<table>
<thead>
<tr>
<th>Description</th>
<th>General Requirements (C.R.S.) &amp; General Conditions (G.C.)</th>
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</thead>
</table>

### General Requirements (G.R.S.) & General Conditions (G.C.)

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<th>K.U.M.</th>
<th>Subtotal</th>
<th>Comments</th>
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<td></td>
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<td></td>
</tr>
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</table>

### Additional Scope of Work

- Pipe B and C 10' Above Manhole
- Total Cost of Work

---

No line item on plan highlighted above will be submitted. No line item on plan highlighted above will be submitted.

This includes all costs associated with the plan items.

Per take-off and review with Cumming

The proposal requires 35 business days. Just for design. Current C.M. includes 10.

File C.P.B. and C. 10' above manhole.

---

International African American Museum

---
<table>
<thead>
<tr>
<th>Prevision</th>
<th>11/7/2015</th>
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<table>
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<tbody>
<tr>
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<td>OHIF</td>
<td>$577</td>
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<td>GL Insurance</td>
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<td>Bond</td>
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<tr>
<td>Service Dep.</td>
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<td>SOA</td>
<td>$96</td>
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<tr>
<td>Tax</td>
<td>$199</td>
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<tr>
<td>Subtotal</td>
<td>$3,955</td>
</tr>
</tbody>
</table>

**Note:**
- Submitted by: Chris Hewitt, Project Manager
- Project Manager (excluding the cap changes)
- Superintendent
- Foreman
- Additional labor & equipment
- Additional concrete

Schedule impacts: TBD continuation on header delivery
Title: The pile containment due to mis-mixed pile
To: Bobby Teetsky & Walt Lewis

**Note:**
- For the 20.5 ft locations of the piles. This includes the additional materials and labor to modify the pile caps to the new design 95' in response to ETC 10 and 19.
- The pier 3.2 ft locations of the piles. This includes the additional footer concrete material and labor to modify the pile caps to the new design 95' in response to ETC 10 and 19.
Harris Rebar North Carolina Inc.

Project No: 06219158-13  Change Order #13  Date: February 4, 2020

To: Donley's Concrete
    Mr. Chris Hewitt

Project: International African American Museum

Loc.: Charleston, SC

Arch.: 

Change Order #13: Approximately 2.37 tons plain rebar for $2,960.00 including applicable tax.

Description: Additional rebar and 1.5 hours of detailing time required per RFI 131 dated 1/23/20 & RFI 139 dated 1/28/20. RFI's added additional reinforcing around the perimeter of the pile caps on grid line 10 to account for piles out of tolerance. Pile elevations surveys were not included, we provided thickened reinforcing at all locations per GNA's response to field verify elevation and apply detail as needed.

Accepted by Buyer

This day of

Buyer's name:

Approved By:

Name/Title:

Harris Rebar North Carolina Inc.

By: Neil Byrd  2/4/2020

Title: Sales Estimator

Approved By:

Name/Title: Gary Rhodes, Area Manager
**Pile Cap Redesign B10**

- **TO:** Bernard Costantino (Moody Nolan) *(Response Required)*
- **FROM:** Bobby Teachey II (Brownstone)
- **DATE INITIATED:** 01/20/2020
- **LOCATION:**
- **PROJECT STAGE:**
- **SUB JOB:**
- **COST IMPACT:** TBD
- **DRAWING NUMBER:**
- **LINKED DRAWINGS:**
- **RECEIVED FROM:** Chris Hewitt (Donley Inc)
- **COPIES TO:**
  - Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Xiaoxiao Wu (Guy Nordenson and Associates)
- **STATUS:** Open
- **DUE DATE:** 01/23/2020
- **COST CODE:**
- **SCHEDULE IMPACT:** TBD
- **SPEC SECTION:**
- **REFERENCE:**

---

**Question from Bobby Teachey II (Brownstone) at 07:54 AM on 01/20/2020**

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 assults need to be redesigned. Per conversation:

From: Costantino, Bernard
Sent: Friday, December 13, 2019, 10:25 PM To: Bri'Shaw Anderson (bdanderson@tcco.com); Bobby Teachey Cc: Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaoxiao Wu; David Himelman; Cook, Julie; Costantino, Bernard Subject: Pile Cap Redesign

As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch #3: B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFIs for each batch. GNA will respond to the RFI's with the redesign. If you have questions, please call. Best, BERNARD COSTANTINO FAIA, NCARB, LEED AP ARCHITECT O 814.461.4664 D 814.280.8992 C 814.774.8957 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215 MOODYNOLAN.COM

From: Cook, Julie
Sent: Friday, January 3, 2020 11:32 AM
To: Bobby Teachey <btteachey@btonegroup.com>; Lewis, Walter - (CAR) <wlewist@cacco.com>
Cc: Costantino, Bernard <BCostantino@moodynolan.com>; Larrimer, Bob <BLarrimer@moodynolan.com>; Xiaoxiao Wu <xw@nordenson.com>; David Himelman (dh@nordenson.com) <dh@nordenson.com>; Beibei (Eva) Zhao <bz@nordenson.com>; Pardine Daron (dpardine@cacco.com) <dpardine@cacco.com>; Nash Alex (anash@cacco.com) <anash@cacco.com>; Lewis, Walter - (CAR) <wlewist@cacco.com>; Roberts Jonathan (jonathan.roberts@ccorpusa.com) <jonathan.roberts@ccorpusa.com>; Robert H. Faust <bfauast@ccorpusa.com>; Anderson, Bri'Shaw D - (CAR) <bdanderson@tcco.com>
Subject: RE: IAAM Priority Order - T-B Confirmation

Bobby –

Here is an update on schedules of priority tasks from GNA. Updates are in red.

**SCHEDULE**

**Task 1:**
- Batch #5 - 1/2/2020 – returned 1/3
- Batch #6 - 1/3/2020
- Batch #7 - 1/7/2020
- Batch #8 - 1/9/2020

**Task 2:** RFI #69 on 1/6/2020 – Shear wall shop to be resubmitted after this response.

**NOTE:** waiting on Elevator opening information from T-B to finalize this task need by EOD today to maintain schedule.

**NOTE:** Shear wall submittals need to be revised to address confirmed openings in RFI #69.

**Task 3:** Bulletin #5 – (RFI #53 and 76 – steel modifications) - 1/8/2020

**Task 4:** TBD after Task 3.

Steel Shop Drawings
- 1/9/2020 051200-19 Steel shop and erection SEQ 1-6
- 1/13/2020 051200-20 Steel shop and erection SEQ 9-11
- 1/20/2020 051200-21 Steel shop and erection SEQ 12-14
• 1/27/2020 051200-22 Steel shop and erection SEQ 15-16

Can T-B please provide a BIM coordination schedule to the design team.

Thanks-

JULIE M. COOK
AIA, LEED AP
ASSOCIATE PRINCIPAL
ARCHITECT

O 614.461.4664  D 614.280.1492  C 614.937.9038
300 SPRUCE ST, STE 300, COLUMBUS, OH 43215

MOODYNOLAN.COM

Attachments:
7285 - IAAM As-Built_B10.pdf

Awaiting an Official Response

All Replies:

GNA Response:

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 17 January 2020. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines B/10.

Sheet SSK20200121-02 is for the pile cap at Gridlines B/10

Sheet SSK20200121-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4"). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4" above the bottom of pile cap elevation. This is the basis for GNA's notes regarding the application of the detail on SSK20200121-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA's review and approval.
SECTION
SCALE 1" = 1'-0"

NOTES
1. SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS.

SSK20200121-01

Guy Nordenson and Associates
39 Broadway 18th Floor
New York NY 10006
Tel 212 766 0110

International African American Museum
Typ Detail - Insufficient Pile Embedment
Scale 1" = 1'-0"
21 January 2020
Bracketed value reflects difference between the
field computed elevation (provided by Ricky
Kesselman of Turner, respective to each pile cap**) and the top of pile as-built elevation.

PC3
[+0'-1'"

*All B/10 pile elevations inaccessible due to depth.

GNA NOTE:
- NO PILE ELEVATION SURVEY INFORMATION IS PROVIDED. PLEASE SURVEY THE
- AS-BUILT PILE ELEVATIONS AND APPLY DETAIL ON SHEET SSK20200121-01 AT EACH LOCATION WHERE THE AS-BUILT PILE ELEVATION IS BELOW THE DESIGN ELEVATION.

SUBMIT REVISED SURVEY INFORMATION WITH THE AS-BUILT ELEVATIONS INCLUDED AND INDICATE LOCATIONS WHERE THE DETAIL ON SHEET SSK20200121-01 IS APPLIED FOR GNA'S REVIEW AND RECORD.
**PLAN SECTION**

**NOTES**
1. REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP B/10 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 17 JANUARY 2020 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES B/10

2. REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3. ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC3 REINFORCING PER SCHEDULE S-500.

---

**SECTION**

**NOTES**
1. PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

2. PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29
Pile Cap Redesign C10

TO: Julie Cook, AIA (Moody Nolan)  
Bernard Costantino (Moody Nolan) (Response Required)
FROM: Bobby Teachey II (Brownstone)
5150 Trump St, Unit 1602
Charleston, South Carolina 29425

DATE INITIATED: 01/23/2020
LOCATION:
PROJECT STAGE:
SUB JOB:
COST IMPACT: TBD
DRAWING NUMBER:
LINKED DRAWINGS:
RECEIVED FROM: Chris Hewitt (Donley Inc)

FROM: Bobby Teachey II
TO: Julie Cook, AIA
Cc: Bernard Costantino, David Himelman, Jonathan Roberts
Subject: Pile Cap Redesign As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFIs for each batch. GNA will respond to the RFIs with the redesign. If you have questions, please call. Best, BERNARD COSTANTINO FIAA, NCARB, LEED AP ARCHITECT  O 614.461.4664  D 614.289.8992  C 614.774.8957 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215 MOODYNOLAN.COM

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbuiltts need to be redesigned. Per conversation:

Question from Bobby Teachey II (Brownstone) at 12:06 PM on 01/23/2020

From: Costantino, Bernard Sent: Friday, December 13, 2019, 10:25 PM To: 'Bri'Shae Anderson (bdanston@tcro.com); Bobby Teachey Cc: Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaoxiao Wu; David Himelman; Cook, Julie; Costantino, Bernard Subject: Pile Cap Redesign As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFIs for each batch. GNA will respond to the RFIs with the redesign. If you have questions, please call. Best, BERNARD COSTANTINO FIAA, NCARB, LEED AP ARCHITECT  O 614.461.4664  D 614.289.8992  C 614.774.8957 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215 MOODYNOLAN.COM

From: Cook, Julie
Sent: Friday, January 3, 2020 11:32 AM
To: Bobby Teachey <bteachey@bstonegroup.com>; Lewis, Walter - (CAR) <wlewis@tcro.com>
Cc: Costantino, Bernard <bcostantino@moodynolan.com>; Lammer, Bob <blammer@moodynolan.com>; Xiaoxiao Wu <xxw@nordenson.com>
Daw Himelman <dh@nordenson.com>; Beibei (Eva) Zhao <bzz@nordenson.com>; Pardine Daron (dpardine@tcro.com)
<dpardine@tcro.com>; Nash Alex <nash@tcro.com>;lev, Walter - (CAR) <wlewis@tcro.com>; Roberts Jonathan <jroberts@ccorpusa.com>; Robert H. Faust <bfau@ccorpusa.com>; Anderson, Bri'Shae D - (CAR) <bdanston@tcro.com>

Subject: RE: IAAM Priority Order - T-B Confirmation

Bobby –

Here is an update on schedules of priority tasks from GNA. Updates are in red.

SCHEDULE
Task 1:
Batch #5 - 1/2/2020 – returned 1/3
Batch #6 - 1/3/2020
Batch #7 - 1/7/2020
Batch #8 - 1/9/2020

Task 2: RFI #69 on 1/8/2020 – Shear wall shops to be resubmitted after this response.
NOTE: waiting on Elevator opening information from T-B to finalize this task need by EOD today to maintain schedule.
NOTE: Shear wall submittals need to be revised to address confirmed openings in RFI #069.

Task 3: Bulletin #5 – (RFI #53 and 76 – steel modifications) - 1/8/2020

Task 4: TBD after Task 3.
Steel Shop Drawings
- 1/9/2020 051200-19 Steel shop and erection SEQ 1-8
- 1/13/2020 051200-20 Steel shop and erection SEQ 9-11

Page 1 of 2
RFI #139

- 1/20/2020 051200-21 Steel shop and erection SEQ 12-14
- 1/27/2020 051200-22 Steel shop and erection SEQ 15-16

Can T-B please provide a BIM coordination schedule to the design team.

Thanks-

JULIE M. COOK
AIA, LEED AP
ASSOCIATE PRINCIPAL
ARCHITECT

O 614.461.4664  D 614.280.1492  C 614.937.9038
300 SPRUCE ST, STE 300, COLUMBUS, OH 43215

MOODYNOLAN.COM
7285 - IAAM As-Built_B10.pdf ACTIVITY

Attachments:
7285 - IAAM As-Built_C10.pdf

Awaiting an Official Response

All Replies:
GNA response to RFI #139

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 23 January 2020. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines C/10.

Sheet SSK20200124-02 is for the pile cap at Gridlines C/10

Sheet SSK20200124-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4"). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4" above the bottom of pile cap elevation. This is the basis for GNA’s notes regarding the application of the detail on SSK20200124-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA’s review and approval.

X WU
1/28/2020
SECTION

SCALE 1" = 1' - 0"

NOTES

1. SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS
Bracketed value reflects difference between the
slid computed elevation (provided by Ricky
ovelace of Turner, respective to each pile cap**) and the top of pile as-built elevation.

*All C/10 pile elevations inaccessible due to depth.

GNA NOTE:
NO PILE ELEVATION SURVEY INFORMATION IS PROVIDED. PLEASE SURVEY THE AS-BUILT PILE ELEVATIONS AND APPLY DETAIL ON SHEET SSK20200124-01 AT EACH LOCATION WHERE THE AS-BUILT PILE ELEVATION IS BELOW THE DESIGN ELEVATION.

SUBMIT REVISED SURVEY INFORMATION WITH THE AS-BUILT ELEVATIONS INCLUDED AND INDICATE LOCATIONS WHERE THE DETAIL ON SHEET SSK20200124-01 IS APPLIED FOR GNA’S REVIEW AND APPROVAL.
**PLAN SECTION**

**NOTES**

1. REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP C/10 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 23 JANUARY 2020 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES C/10

2. REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3. ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC3 REINFORCING PER SCHEDULE S-500.

**SECTION 2**

**NOTES**

1. PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

2. ADDITIONAL #8 T&B FOR HOOK OF PER BARS SEE NOTE 3 TYP

**SECTION 3**

**NOTES**

1. PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

2. OUTLINE OF REDESIGNED PILE CAP AS-DESIGNED PILE CAP PC3 REINFORCING SEE NOTE 2 TYP

**SCALE 3/8" = 1' - 0"**

**SCALE 3/8" = 1' - 0"**

**SCALE 3/8" = 1' - 0"**

**Suy Nordenson and Associates**

International African American Museum

Redesigned Pile Cap PC3 at Gridline C/10

Scale 3/8" = 1'-0"

24 January 2020
**Change Order Proposal Review Form**

To: Edmund V. Most  
From: Mike Risteski  
Date: 6/22/2021  
Contractor: Turner Construction Company  
Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 21  
Contract: Construction  

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>Pile Cap Modifications @ Column B-2, C-2, A-3, B-3, and C-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>This is a request to access the Construction Contingency to cover design modification (Added rebar and concrete in the pile caps to accommodate the piles that were installed out of tolerance due to unforeseen debris encountered during installation). This caused the piles to be offset from their anticipated final location.</td>
<td></td>
</tr>
</tbody>
</table>
| A - Customer Requested Change  
B - Code/Regulatory Agency Required Change  
C - Errors and Omissions  
D - Replacing Unsuitable Soils  
E - Soils Related Change Other  
F - Unforeseen Conditions  
G - Time Related Change  
H - Liquidated Damages  
I - Value Engineering Change  
J - Exercising Pre-Priced Option (Allowance)  
K - Accounting Error  |
| (Indicate Reason for Change Proposal) |

**Justification:**  
F - Unforeseen Conditions

| Attachments: | J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP) |
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<tr>
<td>Cost Estimate (Expected to Exceed $10,000)</td>
<td>Change Proposal Request from CMR with Detailed Backup</td>
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**Proposal Cost (not to exceed):** $24,241.00  
Owner Contingency Allow. Bal.  

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<th>Time Extension Requested:</th>
<th>Time Extension Recommended:</th>
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**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

**Decision needed by:** June 22, 2021

**Approved:**

- Rick Holl, Cumming Corp  
- Robert Faust, Cumming Corp  
- Edmund V. Most, City of Charleston  
- Bernard Costantino, Moody Nolan
Date Submitted: February 17, 2020

To: Edmund Most
   City of Charleston

Re: Internation African American Muesum
   Pile Cap B2, C2, B3,C3 Rebar Redesign

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to install additional rebar to the pile caps per unforeseen conditions. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason: [X] Unforeseen Condition

Pricing: [X] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [X] Evaluated - NO TIME IMPACT

Work Authorized is Requested By:

Contractor: TURNER BROWNSTONE

02/17/2020

$ 24,241 Amount Requested

Requested Action:

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

Submitted By: Walter Lewis Project Engineer

Dated

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

Dated

$ 24,241 Amount Approved
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**COR No.:**

General Summary of the Estimate

International African American Museum
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<th>Total</th>
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**Subtotal:** $30,000

**Project Manager (Signature):**

**Contractor:**

**Estimator (Signature):**

Note: The above table represents the total cost breakdown for the project as per the given data. Any changes or updates should be communicated to the Project Manager.
Harris Rebar North Carolina Inc.

Project No: 06219158-12  Change Order #12-Revised  Date: January 21, 2020

To: Donley's Concrete
    Mr. Chris Hewitt
Project: International African American Museum
Loc.: Charleston, SC
Archt:

Change Order #12-Revised: Approximately 3.77 tons plain rebar for $5,215.00 including applicable tax.
Description: Additional rebar and 8.5 hours of detailing time required per RFI 090 dated 01/07/20, RFI 091 dated 01/09/20 and RFI 090 Follow up and RFI 118 received on 1/20/19. RFIs increased perimeter and thickness of pile caps at grid lines 2 & 3, to account for piles placed out of tolerance. Additional perimeter and thickened portion bars added at their respective locations.

Accepted by Buyer
This day of
Buyer's name: 
Approved By:
Name/Title:

Harris Rebar North Carolina Inc.
By: Neil Byrd  1/21/2020
Title: Sales Estimator
Approved By:
Name/Title: Gary Rhodes, Area Manager
Pile Cap Redesign C3 & B3

TO: Bernard Costantino (Moody Nolan)  
    Julie Cook, AIA (Moody Nolan)
FROM: Bobby Teachey II (Brownstone)  
    5150 trump st, Unit 1602  
    Charleston, South Carolina 29425
DATE INITIATED: 12/20/2019
LOCATION:
PROJECT STAGE:
SUB JOB:
COST IMPACT: TBD
DRAWING NUMBER:
LINKED DRAWINGS:
RECEIVED FROM:

Copies To: 
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Arash Hajighasemi (Turner Construction (ATL)), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Leonard Spears (ARUP), Stephanie Teraul (ARUP), Xiaofeng Wu (Guy Nordenson and Associates)

Question from Bobby Teachey II (Brownstone) at 04:39 PM on 12/20/2019

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbuilt need to be redesigned. Per conversation:
From: Costantino, Bernard Sent: Friday, December 13, 2019, 10:25 PM To: 'Br/Shae Anderson (bdanderson@tcoco.com); Bobby Teachey CC: Robert H. Faust; jonathan.roberts@cccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaofeng Wu; David Himelman; Cook, Julie; Costantino, Bernard Subject: Pile Cap Redesign As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch #3: B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFI's for each batch. GNA will respond to the RFI's with the redesign. If you have questions, please call. Best, BBernard Costantino FAIA, NCARB, LEED AP
ARCHITECT O 614.481.4684 D 614.280.8992 C 614.774.8857 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215 MoodyNolan.com

Attachments:
7285 - IAAM As-Built_B3.pdf 7285 - IAAM As-Built_C3.pdf
Awaiting an Official Response

All Replies:

GNA Response:

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 17 December 2019 and 20 December 2019. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines B/3 and C/3.

Sheet SSK20200107-02 is for the pile cap at Gridlines B/3.
Sheet SSK20200107-03 is for the pile cap at Gridlines C/3.

Sheet SSK20200107-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4"). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/5-400, which is 4" above the bottom of pile cap elevation. This is the basis for GNA's notes regarding the application of the detail on SSK20200107-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA’s review and approval.

X WU
BY

1/7/2020
DATE

MN

COPIES TO
SECTION

SCALE 1" = 1' - 0"

NOTES

1  SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS
Bracketed value reflects difference between the old computed elevation (provided by Ricky Velasquez of Turner, respective to each pile cap**) and the top of pile as-built elevation.
SECTION

SCALE 3/8" = 1' - 0"

NOTES
1. PILE DOWELS NOT SHOWN FOR CLARITY
2. T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

PLAN SECTION

SCALE 3/8" = 1' - 0"

NOTES
1. REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP B/3 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 20 DECEMBER 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES B/3
2. REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

Guy Nordenson and Associates
59 Broadway 18th Floor
New York NY 10006
Tel 212 766 0119

International African American Museum
Redesigned Pile Cap PC1 at Gridline B/3
Scale 3/8" = 1'-0"
7 January 2020

SSK20200107-02
Bracketed value reflects difference between the as-built computed elevation (provided by Ricky Velace of Turner, respective to each pile cap**) and the top of pile as-built elevation.

** PC1
[+0' - 4'']

LEGEND
**NOTES**

1. REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP C/3 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 17 DECEMBER 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES C/3

2. REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3. ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC1 REINFORCING PER SCHEDULE S-500.

**SSK20200107-03**

---

**PLAN SECTION**

Scale 3/8" = 1' - 0"

**SECTION**

Scale 3/8" = 1' - 0"

1. PILE DOWELS NOT SHOWN FOR CLARITY
2. T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

---

**SECTION**

Scale 3/8" = 1' - 0"

1. PILE DOWELS NOT SHOWN FOR CLARITY
2. T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

---

3. ADDITIONAL #8 T&B FOR HOOK OF PERP BARS TYP

---

OUTLINE OF REDESIGNED PILE CAP

ADDITIONAL STANDARD BAR HOOK T&B SEE NOTE 3 TYP

ADDITIONAL T/PILE CAP

+5'-0" T/PILE CAP

C

AS-DESIGNED PILE CAP PC1 REINFORCING SEE NOTE 2 TYP

3" CLR TYP

5'-9"

2'-0" LAP TYP

5'-6"

11'-3"

5'-7"

3" CLR TYP

5'-5"
Pile Cap Redesign C3 & B3

TO: Bernard Costantino (Moody Nolan)
    Julie Cook, AIA (Moody Nolan)

DATE INITIATED: 12/20/2019

LOCATION: TBD

PROJECT STAGE: TBD

SUB JOB: TBD

COST IMPACT: TBD

DRAWING NUMBER: TBD

LINKED DRAWINGS:

FROM: Bobby Teachey II (Brownstone)
      5150 trumpet st, Unit 1602
      Charleston, South Carolina 29425

STATUS: Open

DUE DATE: 01/02/2020

COST CODE: TBD

SCHEDULE IMPACT: TBD

SPEC SECTION: TBD

REFERENCE:

RECEIVED FROM:

COPIES TO:
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Arash Hajijhasemi (Turner Construction (ATL)), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Leonard Spears (ARUP), Stephanie Teraut (ARUP), Xiaoliao Wu (Guy Nordenson and Associates)

Question from Bobby Teachey II (Brownstone) at 04:39 PM on 12/20/2019

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbults need to be redesigned. Per conversation:
From: Costantino, Bernard Sent: Friday, December 13, 2019, 10:25 PM To: 'Bri/Shae Anderson (bdanderson@tc.co.com)'; Bobby Teachey Cc: Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaoliao Wu; David Himelman; Cook, Julie; Costantino, Bernard Subject: Pile Cap Redesign As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch #3: B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFI’s for each batch. GNA will respond to the RFI’s with the redesign. If you have quesitons, please call. Best, BERNARD COSTANTINO FAIA, NCARB, LEED AP ARCHITECT O 614.461.4664 D 614.280.8992 C 614.774.8957 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215 MOODYNOLAN.COM

Attachments:
7285 - IAAM As-Built_B3.pdf 7285 - IAAM As-Built_C3.pdf

Awaiting an official Response

All Replies:

GNA Response 1/17/2020:

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 23 December 2019. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines A/3.

Sheet SSK20200117-02 is for the pile cap at Gridlines A/3

Sheet SSK20200117-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4"). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4" above the bottom of pile cap elevation. This is the basis for GNA’s notes regarding the application of the detail on SSK20200117-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA’s review and approval.

See GNA original response to RFI 90 dated 7 January 2020 for additional information for pile cap redesign at Gridlines B/3 and C/3.

D HIMELMAN

1/17/2020

BY

MN

COPIES TO
SECTION

SCALE 1" = 1' - 0"

NOTES

1. SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS.

SSK20200117-01
**PC5**

[+4'-2'']

Pocketed value reflects difference between the computed elevation (provided by Ricky) vs. the top of pile as-built elevation.
NOTES
1 REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP A/3 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 23 DECEMBER 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES A/3

2 REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3 WORKPOINT (WP) LOCATION IS 10'-11 5/8" WEST OF GRIDLINE 3 AND 11'-10 3/8" NORTH OF GRIDLINE A

SSK20200117-02
Pile Cap Redesign C2

TO: Bernard Costantino (Moody Nolan)  
Julie Cook, AIA (Moody Nolan)  
DATE INITIATED: 12/20/2019
LOCATION:
PROJECT STAGE:
SUB JOB:
COST IMPACT: TBD
DRAWING NUMBER:
LINKED DRAWINGS:
RECEIVED FROM:
COPIES TO:
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Arash Hajighasemi (Turner Construction (ATL)), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Leonard Spears (ARUP), Stephanie Terault (ARUP), Xiaoxiao Wu (Guy Nordenson and Associates)

FROM: Bobby Teachey II (Brownstone)  
5150 trumpet st, Unit 1632  
Charleston, South Carolina 29425
STATUS: Open
DUE DATE: 01/03/2020
COST CODE:
SCHEDULE IMPACT: TBD
SPEC SECTION:
REFERENCE:

Question from Bobby Teachey II (Brownstone) at 04:40 PM on 12/20/2019

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbuilds need to be redesigned. Per conversation:
From: Costantino, Bernard Sent: Friday, December 13, 2019, 10:25 PM To: 'Bri'Shae Anderson (bdanderson@tcc0.com); Bobby Teachey Cc: Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaoxiao Wu; David Himelman; Cook, Julie; Costantino, Bernard Subject: Pile Cap Redesign As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch #3: B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFIs for each batch. GNA will respond to the RFI's with the redesign. If you have questions, please call. Best, B

Bernard Costantino, FAIA, NCARB, LEED AP
ARCHITECT O 614.481.1464 D 614.280.8992 C 614.774.8957 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215 MOODYNOLAN.COM

Attachments:
7285 - IAAM As-Built_C2.pdf

Awaiting an Official Response

All Replies:

GNA Response:

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 17 December 2019. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines C/2.

Sheet SSK20200108-02 is for the pile cap at Gridlines C/2

Sheet SSK20200108-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4”). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4” above the bottom of pile cap elevation. This is the basis for GNA’s notes regarding the application of the detail on SSK20200108-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA’s review and approval.

X WU 1/9/2020 MN
BY DATE COPIES TO
SECTION

SCALE 1" = 1'-0"

NOTES

1

SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS
Bracketed value reflects difference between the old computed elevation (provided by Ricky Velage of Turner, respective to each pile cap**) and the top of pile as-built elevation.

Legend

GNA NOTE: AS-BUILT T/PILE ELEVATION BELOW DESIGN ELEVATION, APPLY DETAIL ON SHEET S8522020109-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF THIS PILE

**ELEVATION MISSING, APPLY DET 2") (INCLUDED IN 'ONSE) AT TOP OF S-BUILT T/PILE BELOW DESIGN

S-BUILT T/PILE ELEVATION BELOW DESIGN, APPLY DETAIL ON SHEET 58522020109-01 (THIS RFI TOP OF THIS PILE

GNA NOTE: AS-BUILT T/PILE ELEVATION BELOW DESIGN ELEVATION, APPLY DETAIL ON SHEET 58522020109-01 (INCLUDED IN THIS RFI RESPONSE) AT TOP OF THIS PILE
1. REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP C/2 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 17 DECEMBER 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES C/2

2. REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3. ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC3 REINFORCING PER SCHEDULE S-500.
Pile Cap Redesign B2

TO: Bernard Costantino (Moody Nolan) (Response Required)
FROM: Bobby Teachey II (Brownstone)

DATE INITIATED: 01/08/2020
LOCATION:
PROJECT STAGE:
SUB JOB:
COST IMPACT: TBD
DRAWING NUMBER:
LINKED DRAWINGS:
RECEIVED FROM: Chris Hewitt (Donley Inc)

COPIES TO:
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), David Himelman (Guy Nordenson and Associates), Jonathan Roberts (Cumming), Leonard Spears (ARUP), Stephanie Terault (ARUP), Xiaoxiao Wu (Guy Nordenson and Associates)

Question from Bobby Teachey II (Brownstone) at 03:04 PM on 01/08/2020

Due to the existing soil conditions of the installed pile, the pile caps shown in RFI #51 asbuilt need to be redesigned. Per conversation:
From: Costantino, Bernard Sent: Friday, December 13, 2019, 10:25 PM To: ‘Bri/Shae Anderson (bcianderson@tcco.com)’; Bobby Teachey Co; Robert H. Faust; jonathan.roberts@ccorpusa.com; Langdale Jr, Bobby - (ATL); Xiaoxiao Wu; David Himelman; Cook, Julie; Costantino, Bernard Subject: Pile Cap Redesign As discussed, GNA is going to share the pile cap redesign results as batches, in the sequence of: Batch #1: A9, B9 C9 Batch #2: B8, C8 Batch #3: B7, C7 Batch #4: B5, B6 To facilitate and document submission of the redesign, please issue individual RFIs for each batch. GNA will respond to the RFI's with the redesign. If you have questions, please call. Best, BERNARD COSTANTINO FAIA, NCARB, LEED AP ARCHITECT O 614.461.4664 D 614.280.8992 C 614.774.8957 300 SPRUCE ST, STE 300, COLUMBUS, OH 43215 MOODYNOLAN.COM

From: Cook, Julie
Sent: Friday, January 3, 2020 11:32 AM
To: Bobby Teachey <bateachey@bstonegrp.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>
Cc: Costantino, Bernard <BCostantino@moodynolan.com>; Larrimer, Bob <BLarrimer@moodynolan.com>; Xiaoxiao Wu <xw@nordenson.com>; David Himelman (dhimelman@nordenson.com); Beibel (Eva) Zhao <bz@nordenson.com>; Pardine Daron (dpardine@tcco.com) <dpardine@tcco.com>; Nash Alex (anash@tcco.com) <anash@tcco.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>; Roberts Jonathan (jonathan.roberts@ccorpusa.com) <jonathan.roberts@ccorpusa.com>; Robert H. Faust <braus@ccorpusa.com>; Anderson, Bri/Shae D - (CAR) <bdanderson@tcco.com>
Subject: RE: IAAM Priority Order - T-B Confirmation

Bobby –

Here is an update on schedules of priority tasks from GNA. Updates are in red.

SCHEDULE
Task 1:
Batch #5 - 1/2/2020 – returned 1/3
Batch #6 - 1/3/2020
Batch #7 - 1/7/2020
Batch #8 - 1/9/2020

Task 2: RFI #69 on 1/6/2020 – Shear wall shops to be resubmitted after this response.
NOTE: waiting on Elevator opening information from T-B to finalize this task need by EOD today to maintain schedule.
NOTE: Shear wall submittals need to be revised to address confirmed openings in RFI #069.

Task 3: Bulletin #5 – (RFI #53 and 76 – steel modifications) - 1/8/2020

Task 4: TBD after Task 3.
Steel Shop Drawings
- 1/9/2020 051200-19 Steel shop and erection SEQ 1-8
- 1/13/2020 051200-20 Steel shop and erection SEQ 9-11
- 1/20/2020 051200-21 Steel shop and erection SEQ 12-14
Can T-B please provide a BIM coordination schedule to the design team.

Thanks-

JULIE M. COOK
AIA, LEED AP
ASSOCIATE PRINCIPAL
ARCHITECT

O 614.461.4664 D 614.280.1492 C 614.937.9038
300 SPRUCE ST, STE 300, COLUMBUS, OH 43215

Attachments:
7285 - IAAM As-Built_B2.pdf

Awaiting an Official Response

All Replies:

GNA Response:

See attached structural sketches for updated pile cap design. Pile cap redesign is based on the as-built pile survey information received from Turner Brownstone (T/B) dated 08 January 2020. Attached structural sketches only address the revisions in the pile cap sizes and reinforcements at Gridlines B/2.

Sheet SSK20200113-02 is for the pile cap at Gridlines B/2

Sheet SSK20200113-01 applies where the pile embedment length into the bottom of pile cap or grade beam is insufficient (<4"). See GNA notes on the as-built information received from T/B for additional information. T/B confirmed that the elevations at T/Pile noted on the as-built information drawings are relative to the design elevation of piles per Section 1/S-400, which is 4" above the bottom of pile cap elevation. This is the basis for GNA’s notes regarding the application of the detail on SSK20200113-01.

Contractor to produce revised pile cap shop drawings per the attached sketches for GNA’s review and approval.

X WU
BY
1/13/2020
DATE

MN
COPIES TO
SECTION

SCALE 1" = 1' - 0"

NOTES

1. SECTION APPLIES AT LOCATIONS WHERE T/PILE ELEVATIONS DO NOT SATISFY MINIMUM EMBEDMENT LENGTH INTO BOTTOM OF PILE CAP PER SECTION 1/S-400 (4" MINIMUM). SEE 7285-IAAM AS-BUILT DRAWINGS OF PRECAST CONCRETE PILE GROUPS BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP (ATTACHED) FOR ADDITIONAL INFORMATION INCLUDING AS-BUILT T/PILE ELEVATIONS.
Bracketed value reflects difference between the old computed elevation (provided by Ricky Nevelace of Turner, respective to each pile cap**) and the top of pile as-built elevation.

**PC3 [+0'-4'']

- S-BUILT TIPILE BELOW DESIGN
- APPLY DETAIL ON SHEET SSK020113-01
- THIS RFI AT TOP OF THIS PILE

---

LEGEND
PLAN SECTION
SCALE 3/8" = 1' - 0"

NOTES

1. REFER TO 7285-IAAM AS-BUILT DRAWING OF PRECAST CONCRETE PILE GROUP B/2 BY CES GROUP ENGINEERS AND PREPARED FOR BROWNSTONE CONSTRUCTION GROUP DATED 8 JANUARY 2019 (ATTACHED) FOR PRECAST CONCRETE PILE INFORMATION INCLUDING AS-BUILT PILE LOCATIONS RELATIVE TO GRIDLINES B/2

2. REFER TO CIP CONCRETE PILE CAP SCHEDULE ON STRUCTURAL DRAWINGS SHEETS S-500 FOR AS-DESIGNED CIP CONCRETE PILE CAP INFO

3. ADDITIONAL REINFORCING FOR REDESIGNED PILE CAP SIZE AND SPACING TO MATCH PILE CAP PC3 REINFORCING PER SCHEDULE S-500.

SECTION
SCALE 3/8" = 1' - 0"

NOTES

1. PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29

2. PILE DOWELS NOT SHOWN FOR CLARITY T/CONC. ELEVATION IS RELATIVE TO PROJECT DATUM NGVD 29
**Description of work to be performed:** Pile Cap Modifications @ Column A-8, B-8, B-9, C-8 and C-9
This is a request to access the Construction Contingency to cover design modification (Added rebar and concrete in the pile caps to accommodate the piles that were installed out of tolerance due to unforeseen debris encountered during installation. This caused the piles to be offset from their anticipated final location.

**Justification:** F - Unforeseen Conditions

**Attachments:**
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PWP)

**Proposal Cost (not to exceed):** $21,179.00 Owner Contingency Allow. Bal.

**Time Extension Requested:**

**Comments by Supervisor:**

**Decision needed by:** July 6, 2021

**Approved:**
- Rick Hall, Cumming Corp.
- Robert Faust, Cumming Corp.
- Edmund V. Most, City of Charleston
- Bernard Costantino, Moody Nolan

**Contractor:** Turner Construction Company
Date Submitted: September 8, 2020

To: Edmund Most
City of Charleston

Re: Internation African American Muesum
Pile Cap Redesign CL 8 and CL 9

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install additional rebar for revised rebar cap design. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.


Pricing: [ ] ROM Estimate of GR's & Insurances: [ ] ROM Estimate for Entire PCO [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [ ] Evaluating Potential for Time Impact [ ] Evaluated - NO TIME IMPACT [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

[ ] Work has been Completed [ ] Work Has Commenced &/or is Ongoing [ ] Work Authorization is Requested By:

Submitted By: Contractor: TURNER BROWNSTONE
Water Lewis Project Engineer Dated: 09/08/2020 Amount Requested $ 21,179

Reviewed By: Program Manager: CUMMING

Authorized Action:
Authorized to Proceed When Pricing [ ] Price Only [ ] Do Not Proceed or Price

Approved By: Owner: City of Charleston

Authorized Action:
Authorized to Proceed When Pricing [ ] Price Only [ ] Do Not Proceed or Price

Amount Approved $ 21,179
### Estimate Totals

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<th>Amount</th>
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<th>Notes</th>
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### Subtotal Trade Directs

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<td>2.</td>
<td>Trade Directs</td>
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<td>3.</td>
<td>Conditions of Work</td>
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**Cor No.:** 22R

General Summary of the Estimate

International African American Museum
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<th>CC or GC</th>
<th>Forecasted Cost (CC)</th>
<th>Actual Cost (CC)</th>
<th>Forecasted Cost (GC)</th>
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<td>Informatica African American Museum</td>
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### Revised CON Amount Agreement

**Donley's Concrete Group**

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Revised CON Amount Agreement with

Croming and TCOG

***Submitted by: Chris Houghton, Project Manager***

**Donley's Concrete Group**
### TCO Changes

<table>
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<tr>
<th>Item</th>
<th>Revised TCO</th>
<th>New TCO</th>
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<td>Total</td>
<td>$ 2,090.00</td>
<td>$ 2,040.00</td>
<td>($50.00)</td>
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</table>

**Note:**

The original TCO was split into parts to reflect the revised amount. This TCO is for the additional materials and labor to modify the piles to the new design. All labor is reflected as 8-hour workdays. This TCO does not include any material or labor savings.

**Submitted by:** Chris Hoffman, Project Manager

**Company:** Concrete Group
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company  
Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 79  
Contract: Construction  

<table>
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<tr>
<th>Description of work to be performed:</th>
<th>Roof Parapet Expansion Joint</th>
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<tbody>
<tr>
<td>This change is associated with the installation and modification of the roof parapet and its expansion joint. During submittal process the contractor proposed off the shelf products and changed the roof parapet detail to accommodate the new materials. The original drawings called out for a custom built parapet &amp; expansion joint. Major contributing factor for the change was the need to meet hurricane wind ratings for the parapet coping &amp; expansion joint assembly.</td>
<td></td>
</tr>
</tbody>
</table>

| A - Customer Requested Change |
| B - Code/Regulatory Agency Required Change |
| C - Errors and Omissions |
| D - Replacing Unsuitable Soils |
| E - Solids Related Change Other |
| F - Unforeseen Conditions |
| G - Time Related Change |
| H - Liquidated Damages |
| I - Value Engineering Change |
| J - Exercising Pre-Priced Option (Allowance) |
| K - Accounting Error |

| Justification: | C - Errors and Omissions |

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<tr>
<th>Attachments:</th>
<th>J&amp;A from Project Manager</th>
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<tbody>
<tr>
<td></td>
<td>Independent Cost Estimate</td>
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<tr>
<td></td>
<td>Pre-Negotiation Position (PNP)</td>
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</tbody>
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| Cost Estimate (Expected to Exceed $10,000) |
| Change Proposal Request from CMR with Detailed Backup |

| Proposal Cost (not to exceed): | $76,599.00 |
| Time Extension Recommended: | |

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<th>Special Circumstances:</th>
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<table>
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<th>Consequence of Rejection:</th>
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<tr>
<th>Comments by Supervisor:</th>
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<th>February 24, 2022</th>
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| (Circle One) |

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<tr>
<th>Mike Risteski, Cumming Corp.</th>
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| (Circle One) |

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<th>Rick Holt, Cumming Corp.</th>
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| (Circle One) |

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<th>(NO)</th>
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| (Circle One) |

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<tr>
<th>Edmund V. Most, City of Charleston</th>
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<table>
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<tr>
<th>(NO)</th>
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| (Circle One) |

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<tr>
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| (Circle One) |

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<th>Robert Larimer</th>
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| (Circle One) |
Date Submitted: November 23, 2020

To: Edmund Most
City of Charleston

Re: International African American Musem
Roof Parapet Expansion Joint Add In

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to provide changes to change coping design and parapet wall framing. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start without signed change order.

Reason:
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

Pricing:
- [x] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Time Impact:
- [x] Evaluated - NO TIME IMPACT
- [ ] Work Has Commenced &/or is Ongoing

Submitted By: Contract: TURNER BROWNSTONE

11/23/20 $ 76,599

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

/ / Dated

Approved By: Owner: City of Charleston

/ / $ 76,599

/ / Dated

Amount Approved

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price
Estimate Total

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<tr>
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<td>Performance and Payment Bond</td>
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<tr>
<td>Builders Risk</td>
<td>0.04%</td>
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<td>Subguard</td>
<td>0.02</td>
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<tr>
<td>CCIP</td>
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Subtotal | $70,491

Trade Directs

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<td>Materials A Equipment</td>
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<td>Self Performed Labor</td>
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Subtotal Estimate of Directs

General Summary of the Estimate

International African American Museum

Cor. No.: 79
### General Requirements (G.R.s) & General Conditions (G.C.s)

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<tr>
<th>Description</th>
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### Direct Work Subtotal

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<tr>
<td>$70,491.00</td>
<td>$</td>
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<td>$70,491.00</td>
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**Cor No.:** 79

Turner Interation African American Museum
CHANGE ORDER REQUEST

PROJECT: International African American Museum (IAAM)
14 Wharfside Street
Charleston, SC 29401

TO CONTRACTOR: Turner Construction Company
170 Meeting Street, Suite 312
Charleston, SC 29401

ARCHITECT: Moody Nolan, Inc.

CONTRACTOR: Turner Construction Company

DATE: 9/24/2020

OWNER: City of Charleston, SC

ARCHITECT'S PROJECT #: 

CONTRACT DATE: 11/5/2019

PROJECT NUMBER: 190795

The Contract is changed as follows:

   * Added backer rod
   * Added cradle & compressible, unfaced fiberglass insulation
   * Added vertical backer rod EJ detail (54) locations (23-S | 23-N | 4-E | 4-W) in Section Detail A-A, 6/16/2020

DOES NOT INCLUDE - The Foam Seal (IMPRO 1200 Series) shown in Section Detail B-B

The original (Contract Sum) was $999,000.00
The net change by previously authorized Change Orders
The (Contract Sum) prior to this Change order was $999,000.00
The (Contract Sum) will be (increased) $70,491.00
by the Change Order in the amount of $1,069,491.00
The new (Contract Sum) including this Change Order will be
The Contract Time will be (increased) by (0) days
The date of Substantial Completion as of the date of this Change Order therefore is 0/0/2019

(Note: This Change Order does not include changes in the Contract Sum, Contract Time, or Guaranteed Maximum Price which has been authorized by Construction Change Order Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive)

ARCHITECT (Firm name) Turner Construction Company

CONTRACTOR (Firm name) Nations Roof of Carolina, LLC

address 170 Meeting Street, Suite 312
Charleston, SC 29401

ADDRESS 1859 Lindbergh Street, Suite 500
Charlotte, North Carolina 28208

BY (signature)

BY (signature)

(Typed name) Steven A. Miller, Exe. VP

(Typed name)

DATE September 9, 2020

DATE

1859 Lindbergh Street, Suite 500 | Charlotte, North Carolina 28208
O (704) 398-2662 | F(704) 398-2663 | W www.nationsroof.com
**RCO Breakdown**

**DATE:** 09/24/20  
**Updated:** 9/25/2020

**PROJECT:** International African American Museum (IAAM)

**CHANGE REQUEST #:** 05  
**NRNC JOB #:** 19-39

**Scope**
- Revisions to drawing A-705-5 (contracted detail) & current detail (based on New Option 2 dated 6/8/2020)
- Added backer rod
- Added cradle & compressible, unfaced fiberglass insulation
- Added vertical backer rod EJ detail (54) locations (23-S | 23-N | 4-E | 4-W) in Section Detail A-A, 6/16/2020

**DOES NOT INCLUDE** - The Foam Seal (IMPRO 1200 Series) shown in Section Detail B-B

**COST BREAKDOWN:**

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<tr>
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<td><strong>I. Materials:</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parapet Detail</td>
<td>LF</td>
<td>1,030</td>
<td>$3.25</td>
<td>$3,347.50</td>
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<tr>
<td>Backer rod</td>
<td>LF</td>
<td>1,030</td>
<td>$2.25</td>
<td>$2,317.50</td>
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<tr>
<td>unfaced fiberglass</td>
<td>LF</td>
<td>1,030</td>
<td>$1.80</td>
<td>$1,854.00</td>
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<tr>
<td>WHITE EPDM cradle - 24&quot; wide</td>
<td>rolls</td>
<td>21</td>
<td>$406.50</td>
<td>$8,536.50</td>
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<tr>
<td>WHITE EPDM 12&quot; SA cover tape (50'/roll)</td>
<td>pails</td>
<td>4</td>
<td>$176.74</td>
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<tr>
<td>EPDM SA primer (3gal/pail)</td>
<td>cases</td>
<td>3</td>
<td>$335.00</td>
<td>$1,005.00</td>
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<tr>
<td>WHITE EPDM Lap Sealant (25 tubes/case)</td>
<td>pails</td>
<td>5</td>
<td>$146.58</td>
<td>$732.90</td>
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<tr>
<td>EPDM Splice Wash (5gal)</td>
<td>cans</td>
<td>5</td>
<td>$77.54</td>
<td>$387.70</td>
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<tr>
<td>EPDM Splice Adhesive (1gal)</td>
<td>cans</td>
<td>5</td>
<td>$178.00</td>
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<td>EPDM Bond Adhesive (5gal)</td>
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<tr>
<td><strong>Parapet EJ Details</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backer rod (54 locations@5'/location)</td>
<td>LF</td>
<td>270</td>
<td>$3.25</td>
<td>$877.50</td>
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<tr>
<td>EPDM 12&quot; SA cover tape (50'/roll)</td>
<td>rolls</td>
<td>6</td>
<td>$406.50</td>
<td>$2,439.00</td>
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<tr>
<td><strong>EPDM supplies included in quantities above</strong></td>
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<tr>
<td><strong>ADD</strong></td>
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<tr>
<td>Misc. fasteners, butyl tapes, etc.</td>
<td>lot</td>
<td>1</td>
<td>$200.00</td>
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<td>Shop supplies</td>
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<td><strong>II. Labor:</strong></td>
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<tr>
<td>Parapet Detail</td>
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<tr>
<td>Installer labor to install EJ</td>
<td></td>
<td>2m</td>
<td>5LF/hr</td>
<td>412</td>
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<td><strong>Parapet EJ Details</strong></td>
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<td>Installer labor to install vertical Ejs</td>
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<td>2h</td>
<td>each</td>
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<td>QC</td>
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<td><strong>III. Third Party Rentals</strong></td>
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<td>Hotel expenses (2man/room)</td>
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<td>32.90</td>
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<td>Perdium expenses</td>
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<td>66</td>
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<td><strong>Subtotal 3rd PARTY:</strong></td>
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<td>$4,277.00</td>
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<td><strong>Total</strong></td>
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**SUMMARY:**

Subtotal MATERIALS............. $23,519.56
6.10% SC Sales taxes .... $1,434.69
15.00% -up on MATERIALS... $3,527.93
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<tr>
<td>Subtotal 3rd PARTY</td>
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<td>15.00% mark-up on 3rd Party</td>
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<td><strong>$70,490.74</strong></td>
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<td><strong>Total cost change this request</strong></td>
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SECTION DETAIL B - B

Expansion Joint At Stud: In the Middle of Structure.

Exception:

Expansion Joint At Stud: Typical.

NOTE (North and South W

For Movement, Another Side to Be Free.

Only One Side At Exp-J.

Splice Plate to Be Fixed.
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteksi
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 80R
Contract: Construction

Description of work to be performed: Window Shade Adds & Deletions per ASI 28
This change is associated with the material and labor to remove 4 manual shades on level 3
Add 1 W3 Shade and add the electrical conduit and junction boxes for 4x W1 motorized shades
All of the work coordinated for this COR has been issued through ASI 28 and the shades submittal

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $5,407.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: Mike Risteksi, Cumming Corp
July 12, 2021

Approved:

Rick Holt, Cumming Corp
Robert Faust, Cumming Corp
Edmund V. Most, City of Charleston
Bernard Costanza
Bernard Costanza, City of Charleston

(Circle One)
(NO) (YES)

(Circle One)
(NO) (YES)

(Circle One)
(NO) (YES)

(Circle One)
(NO) (YES)
Date Submitted: June 10, 2021

To: Edmund Most
City of Charleston

Re: International African American Museum
Window Shade Adds and Deletions per ASI 028 and Submittal 12 24 13-2.1 Comments

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to provide changes to change window shades additions and deletions per ASI 028 and revised per the comments in Submittal 12 24 13-2.1. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason: 
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

Pricing: 
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [x] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: 
- [ ] Evaluating Potential for Time Impact
- [x] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work Has Commenced &/or is Ongoing
- [ ] Work Authorization is Requested By:

Submitted By: Contractor: TURNER BROWNSTONE
Walter Lewis  Project Engineer  Dated  / /  $ 5,407 Amount Requested

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING
Dated  / /  

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Approved By: Owner: City of Charleston
Edmund Most  Dated  / /  $ 5,407 Amount Approved
DIRECT WORK SUBTOTAL

$4,976

$4,976

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<td>COMMENTS</td>
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<td>Rate</td>
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COR NO.:

80R
### Estimate Total

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</tr>
<tr>
<td>Procure</td>
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<td>Subguard</td>
<td>0.02%</td>
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<tr>
<td>CIP</td>
<td>2.45%</td>
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<tr>
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### Subtotal TRADE DIRECTS

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<tr>
<td>CONDITIONS (GGR) &amp; GENERAL</td>
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<tr>
<td>REQUIREMENTS (GRS) &amp; GENERAL</td>
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<tr>
<td>SELF PERFORMED LABOR</td>
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<td><strong>Description of Work</strong></td>
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<tr>
<td><strong>Item</strong></td>
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---

**General Summary of the Estimate**

International African American Museum

**80R**

**Cor No.:**
Window Roller Shades SD REV 1

SPEC SECTION: 12 24 13 - Window Roller Shades
CREATED BY:

STATUS: Open
DATE CREATED: 01/22/2021

ISSUE DATE: 01/22/2021
REVISION: 1

RESPONSIBLE CONTRACTOR: DCO Commercial Floors
RECEIVED FROM: Dave Newman

RECEIVED DATE: 03/22/2021
SUBMIT BY: //

FINAL DUE DATE: 04/05/2021
LOCATION:

TYPE: Shop Drawing
COST CODE:

APPROVERS: Sarah Lippai (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)

BALL IN COURT:
Sarah Lippai (Turner Construction (CAR))

DISTRIBUTION:
Bill H. Anderson (Turner Construction (CAR)), Walter Lewis (Turner Construction (CAR)), Bobby Teachey II (Brownstone)

DESCRIPTION:
B. Shop Drawings
1. Show location and extent of roller shades.
2. Include elevations, sections, details and dimensions.
3. Show installation details, mountings, attachment to other work, operational clearances and relationship to adjoining work.
4. Complete wiring diagrams including connection details for all components supplied by this section for installation and connection by Division 26.

ATTACHMENTS:

SUBMITTAL WORKFLOW

<table>
<thead>
<tr>
<th>#</th>
<th>NAME</th>
<th>SUBMITTER/ APPROVER</th>
<th>SENT DATE</th>
<th>DUE DATE</th>
<th>RETURNED DATE</th>
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<th>COMMENTS</th>
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<td>Submitter</td>
<td>3/22/2021</td>
<td>2/5/2021</td>
<td>3/22/2021</td>
<td>Submitted</td>
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<tr>
<td>2</td>
<td>Sarah Lippai</td>
<td>Approver</td>
<td>3/22/2021</td>
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<td>3</td>
<td>Julie Cook, AIA</td>
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<td>4</td>
<td>Bernard Costantino</td>
<td>Approver</td>
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<td>4/5/2021</td>
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</table>

DELETE W1 ROLLER SHADES AND EXTEND GWB CEILING TO DOOR FRAME. PROVIDE BLOCKING FOR POSSIBLE FUTURE SURFACE MOUNTED SHADE AND JUNCTION BOX FOR POWER.

MOVE DUEL MAGNASHADES AND POCKET TO THE WEST TO AVOID STRUCTURE WHILE MAINTAINING 12'-5" SOFFIT HEIGHT.

PROVIDE REVISED COPY FOR
ESTIMATE Date 03/28/21

CLIENT
TURNER CONSTRUCTION
3495 PIEDMONT RD. NE
BUILDING 11, SUITE 700
ATLANTA, GA 30305

PROJECT
INTERNATIONAL AFRICAN MUSEUM
ASI028
CHARLESTON, SC
OUT OF STATE-CONTRACT(6% TAX),

Tele #1 | JOB # | Salesperson 1 | User Header Label 1
--------|-------|---------------|------------------
404-504-3700 | | NEWMAN, DAVE |

Job Phone | MODEL | Salesperson 2 | User Header Label 2
-----------|-------|---------------|------------------
| WINDOW TREATMENTS | |

<table>
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<th>Area</th>
<th>Style/Item</th>
<th>Color/Desc</th>
<th>Manufacturer</th>
<th>W x L</th>
<th>Qty</th>
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<tr>
<td>LABOR</td>
<td>INSTALL TYPE 1 SHADES</td>
<td></td>
<td></td>
<td>-3.00</td>
<td>EA</td>
</tr>
<tr>
<td>LABOR</td>
<td>INSTALL TYPE 2 SHADES</td>
<td></td>
<td></td>
<td>1.00</td>
<td>EA</td>
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<td>MATERIAL</td>
<td>FURNISH</td>
<td>ADD TYPE 2 SINGLE MANUAL SHADE AT WINDOW IN CONF G213D</td>
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<td>1.00</td>
<td>EA</td>
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<tr>
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<td>FURNISH</td>
<td>DELETE 4 AND ADD 1 TYPE 1 MANUAL SHADES AT LEVEL 3</td>
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<td>-3.00</td>
<td>EA</td>
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</table>

Wiring & Blocking by GC.

This price includes all applicable sales/use tax.

This quote is good for 60 days.

JE116331-007

Material $-711.52
Service $-58.32
Misc Charges $0.00
Sales Tax $0.00
Misc Tax $0.00

Total $-769.84
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

PCO # 20
Date: 6/10/2021
Project Name: IAAM Museum
Project Number: 21071
Page Number: 1

Work Description

SCOPE OF WORK:

Revision 1: removes wiring, control breakers and terminations for shades. Includes conduit raceway rough in and blank junction boxes only.

Pricing per ASI #28.

Inclusions:
(4) 120 volt, 20 amp circuits.
Power and terminations to (4) motorized shades.
(4) new 120 volt, 20 amp single pole breakers.

Exclusions:
Shade controls, rough in and wiring.
Control devices.
Motorized shade equipment.

Clarifications:
This price does not include motorized shade controls.
Supply panel designation AP-L2A; circuits 61, 13, 58 and 62.
No over time or weekends are included.
Power supplies to junction box at right side of shade packet.
Terminations after shades are installed.

Lead Times:
No lead times longer than one week.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 2 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_20>.

Itemized Breakdown

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<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
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</thead>
<tbody>
<tr>
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ORIGINAL
# PROPOSED CHANGE ORDER

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<th>Total Hrs.</th>
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<td>4x1 1/2&quot; SQ BOX COMB KO</td>
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<td>4&quot; SQ BLANK COVER</td>
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<tr>
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<td>0.40</td>
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<tr>
<td><strong>Totals</strong></td>
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<td><strong>1,323.47</strong></td>
<td><strong>49.94</strong></td>
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## Summary

- **General Materials**
  
- **Material Tax**
  
  - **Material Total**
    - **JOURNEYMAN** (49.94 Hrs @ $45.00)
    - **FOREMAN** (7.49 Hrs @ $50.00)
    - **SAFETY** (1.75 Hrs @ $52.00)
    - **PM&S** (59.18 @ 0.00 @ $6.00 + 0.000 % + 0.000 % + 0.000 %)
    - **VDC** (59.18 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %)
    - **VEHICLES** (59.18 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %)
    - **CONSUMABLES** (59.18 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %)
    - **HEALTH AND HYGEINE** (59.18 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %)
    - **SCISSOR LIFT - 25'** (0.25 @ 1.00 @ $525.00 + 0.000 % + 0.000 % + 0.000 %)
  
  - **Subtotal**
    - **Overhead** (@ 10.000 %)
    - **Markup** (@ 5.000 %)
  
  - **Subtotal**
    - **Adjustment #1 - Bond** (@ 1.000 %)

**Final Amount**

- **$5,746.16**

## CONTRACTOR CERTIFICATION

- **Name:**
- **Date:**
- **Signature:**

  I hereby certify that this quotation is complete and accurate based on the information provided.

## CLIENT ACCEPTANCE

- **PCO #**
- **Final Amount:** **$5,746.16**

- **Name:**
- **Date:**
- **Signature:**

  I hereby accept this quotation and authorize the contractor to complete the above described work.

**ORIGINAL**
Cumming
Change Order Proposal Review Form

To:        Edmund V. Most
From:      Mike Risteski
Date:      2/24/2022
Contractor: Turner Construction Company

Project:   CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 90
Contract:   Construction

Description of work to be performed: Buffer Tank Added Steel
This change is associated with the material and labor to provide additional steel for the buffer tanks per RFI 450
The buffer tank location was changed from the original drawings with RFI 166 & Bulletin 10.
Unfortunately the additional steel was not sufficient for the support of the tank size. RFI 450 determined additional steel
to be added for the support of the tank.

Justification:   C - Errors and Omissions

Attachments: J&A from Project Manager
               Independent Cost Estimate
               Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $18,176.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended;

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approvals:

Decision needed by: February 24, 2022

Mike Risteski, Cumming Corp.

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edward V. Most, City of Charleston

Samard Costantine, Moody Nolan

Robert Larimer
Date Submitted: February 23, 2021

To: Edmund Most
City of Charleston

Re: Internation African American Muesum
RFI 450 Buffer Tank Added Steel

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to provide materials, labor, and equipment in accordance of RFI #450. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason: 
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

Pricing: 
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: 
- [x] Evaluating - NO TIME IMPACT
- [ ] Work Has Commenced &/or is Ongoing

Submitted By: 
Walter Lewis Project Engineer 6/10/2021 $18,176

Contractor: TURNER BROWNSTONE

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

$18,176
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<td>0.0722</td>
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<td>Procure</td>
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<td>Performance and Payment Bond</td>
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<td>0.047</td>
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<td>Builders Risk</td>
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<tr>
<th>TRADE DIRECTS</th>
<th>DESCRIPTION OF WORK</th>
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<tr>
<td></td>
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<tr>
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<td></td>
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</tbody>
</table>
$167,199

DESCRIPTION

GENERAL REQUIREMENTS (G.R.) \& GENERAL CONDITIONS (G.C.)

DIVISIONS OF WORK

COR NO.: 88

Turner

International African American Museum
# PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**

1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835

**PROPOSED CHANGE ORDER #:** 28  
**REVISION #:** 01  
**LSC CONTRACT #:** 19041  
**DATE:** 11/10/20

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209  
Attention: Walt Lewis  
Phone: 919-788-2024  
FAX:  

**PROJECT:** International African American Museum  
Charleston, SC

**Description:** RFI #450 Rev 1 Response  
Dated 10/28/20  
**NOCH:** 34 & 36

## DESCRIPTION

- Added cost due to receipt of RFI #450 Rev 1 response dated 10/28/20.
- Added (2) W6x20 beams, (2) W6x20 beam assemblies, attached by moment connections, and (4) L4x3x1/4 pour stops, with shop attached rebar studs, to existing dunnage support framing at Buffer Tank. Pour stops were added after the voided 1/2" bearing plate was already purchased, therefore no credit is given.
- Reference Drawings E5008, 8138, 8139, 8140, 8141, 8142, 8144 and 8145.
- See attached Proposed Detailing Extras Forms for additional description of revision detailing.
- Also, attached find Invoice dated 10/27/20 and 11/9/20 from CAS Steel for added erection cost.

<table>
<thead>
<tr>
<th>Description</th>
<th>A/D</th>
<th>AMOUNT</th>
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</thead>
<tbody>
<tr>
<td>Materials</td>
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<td>$757</td>
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<tr>
<td>Shop Labor</td>
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<td>Detailing</td>
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<tr>
<td>Freight</td>
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<tr>
<td>Erection - CAS Steel</td>
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<tr>
<td>Overhead &amp; Profit</td>
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<td>Bonding</td>
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<tr>
<td>TAX</td>
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<td>$68</td>
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</table>

This change will **ADD** an additional **0** WORK DAYS to our scheduled scope of work.

**Total This Change Order:** $16,719

**Accepted** - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

**LYNDON STEEL COMPANY LLC**  
DeWitt Friedmann  
E-mail: DFriedmann@lyndonsteel.com

**LSC Signature:** Date:  

**Prepared By:** Spencer Fleming  

---

*Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items. If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.*
Job No. 9041  
Job Name: International African American Museum  
Detailer Reference CO # AG  
NOC# 34 (Contact PM or DC for number)  
Source of Change: RFI 450-HOT Structural Buffer Tank Support-ARUPGNA.pdf

**General Description of Change:**  
Added (2) new beams W6x20 that get moment connected to the existing dunnage support framing.  
Added (2) new shop assemblies, consisting of (3) W6x20s each.  
Added (1) new bearing plate PL1/2" on top of existing dunnage support framing.

**List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision**  
Added (6) new shop drawings & (1) new E drawing

**List of REVISED PIECE MARKS & Status**  
Revised (2) E drawings.

| Total Detailing Hours this sheet | 7 |
| Total Checking Hours this sheet | 2 |
| Total Hours this sheet | 9 |

Total Impact to Schedule, ALL sheets: __________

Detailing Coord. Review: __________

Project Manager Acceptance: (Initial / Date) (Signature) (Dated)

**NOTE:** The detailer is not to proceed with changes until this form is signed and returned.  
For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.  
**NOTE:** The Detailer has the option of using their standard company form if all the above information is included.

Fax to: Detailer  
CC: PM, PC, NOC Estimator  
Original: BB
Job No. 9041  
Job Name International African American Museum

Detailer Reference CO # AH  
NOC# 36  (Contact PM or DC for number)

Source of Change: 9041 IAAM RFI 450 (REV1) Response - Added Pour Stop & Studs to NOC 34 Material Email - NOC 36.pdf

General Description of Change:
Added (4) loose L4x0x1/4(LLV) pour stop on (4)sides with #4 bars x5' long @12' o/c shop attached to the vertical leg.
Added shop order for the 3/8dia. x 3 headed studs.

<table>
<thead>
<tr>
<th>List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision</th>
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</thead>
<tbody>
<tr>
<td>Added (2) new shop drawings and revised (2) E drawings.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>List of REVISED PIECE MARKS &amp; Status</th>
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<tbody>
<tr>
<td>Shop Drawing Status</td>
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<th>Total Impact to Schedule, ALL sheets:</th>
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<tr>
<td>Total Hours this sheet</td>
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<td>------------------------</td>
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<tr>
<td>5</td>
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Detailing Coord. Review:  
| Initial / Date |
Project Manager Acceptance:  
| Signature / Dated |

NOTE: The detailer is not to proceed with changes until this form is signed and returned.
For urgent and for unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.
NOTE: The Detailer has the option of using their standard company form if all the above information is included.

Fax to: Detailer  
CC: PM, PC, NOC Estimator  
Original: BB
## INVOICE

**Description:** NOC 34 Revised Framing at Buffer Tank  
**Job:** 434 IAAM  
**Date:** TBD  
**Invoice Date:** 27-Oct-20

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<td>110 Ton</td>
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<tr>
<td>100 Ton</td>
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<td>Gen Pack</td>
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**Subtotal**  
$6,383.00

**Expendables**  
10%  
$382.98

**Fuel**  
6%  
$638.30

**Subtotal**  
$7,404.28

**OH/Profit**  
15%  
$1,110.64

**Total**  
$8,514.92

*NOTE: The above listed rates for equipment are subject to review on a case by case basis due to minimum rental durations and costs in some instances.*
### INVOICE

**Description:** NOC 36 Added Scope at Buffer Tank  
**Job:** 434 IAAM  
**Date:** TBD  
**Invoice Date:** 9-Nov-20

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate/Hr</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Cranes</td>
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</tr>
<tr>
<td>200 Ton</td>
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<td>110 Ton</td>
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<td>Equipment*</td>
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<td>Days</td>
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<tr>
<td>300amp Diesel</td>
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**Subtotal** $368.66  
**Expendables** 10% $22.12  
**Fuel** 6% $36.87  
**Subtotal** $427.65  
**OH/Profit** 15% $64.15  
**Total** $491.79

*NOTE: The above listed rates for equipment are subject to review on a case by case basis due to minimum rental durations and costs in some instances.*
RFI #450

(TOT) Structural | Buffer Tank Support

TO: Bernard Costantino (Moody Nolan)
    Julie Cook, AIA (Moody Nolan)

FROM: Daron Pardine (Turner Construction (ATL))
      Charleston, South Carolina

DATE INITIATED: 10/01/2020

LOCATION:

PROJECT STAGE:

SUB JOB:

COST IMPACT:

DRAWING NUMBER:

LINKED DRAWINGS:

RECEIVED FROM: Daron Pardine (Turner Construction (ATL))

COPIES TO:
Sarah Aarons (ARUP), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Alex Nash (Turner Construction (CAR)), Jonathan Roberts (Cumming), Stephanie Terault (ARUP)

Question from Daron Pardine (Turner Construction (ATL)) at 11:46 AM on 10/01/2020

Per the attached markup, the dunnage that was designed in response to RFI 166 and bulletin 10 needs to be modified to coordinate with the buffer tank mounts.

Two options are attached. Please review and advise which option works for our current condition.

Attachments:
450.pdf

Awaiting an Official Response

All Replies:

SEE ATTACHED GNA MARKUPS ON CONTRACTOR’S SKETCH FOR UPDATED STEEL FRAMING TO ACCOMMODATE PROPOSED BUFFER TANK SHIFT. MN AND ARUP TO CONFIRM UPDATED BUFFER TANK LOCATION.

SEE ATTACHED STRUCTURAL SKETCH SSK20201028-01 FOR ADDITIONAL CONCRETE PAD DETAILS AS REQUESTED. CONCRETE REINFORCEMENTS ARE DESIGNED BASED ON FINALIZED BUFFER TANK ANCHORAGE DESIGN LOADS SPECIFIED IN SUBMITAL 23 05 48-2.1 WITH CONFIRMATION FROM ARUP AND T-B.

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONCRETE PAD REINFORCEMENTS AND ADDED STEEL DUNNAGE FRAMING PER ATTACHED SKETCHES FOR A/E REVIEW AND APPROVAL.

X WU

BY

UPDATED RESPONSE:
10/8/2020

10/28/2020

DATE

MN

COPIES TO
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/8/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 95R  
Contract: Construction  

Description of work to be performed: Roof Drains - Bulletin 27  
This change is associated with the material and labor to provide additional roof drains and fireproofing per Bulletin 27. This also included the removal and reinstallation of conduits in the way of the roof drain fireproofing. All the work was completed with time and material tickets.

Justification: G - Errors and Omissions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $35,055.57  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 8, 2021  

Approved:  

(YES)  
(Circle One)  

Rick Holt, Cumming Corp.

(YES)  
(Circle One)  

Robert Faust, Cumming Corp.

(YES)  
(Circle One)  

Edmund V. Most, City of Charleston

(YES)  
(Circle One)  

Bernard Costantino, Moody Nolan
COR #: 95R3

TURNER BROWNSTONE
14 Wharfside Street
Charleston, SC

Re: International African American Muesum
Bulletin 27 - Added Roof Drains - Final Cost to be Reconciled after work is complete.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start without signed change order.

Reason: [X] Unforeseen Condition

Pricing: [X] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: [X] Evaluating Potential for Time Impact

Submitted By: Contractor: TURNER BROWNSTONE

09/03/2021
Walter Lewis Project Engineer

Dated

$35,056 Amount Requested

Requested Action:
Authorized to Proceed While Pricing Price Only Do Not Proceed or Price

Authorized Action:
Authorized to Proceed While Pricing Price Only Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

Edmund Most
Dated

$35,056 Amount Approved
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General Summary of the Estimate
International African American Museum
TRADITIONAL ESTIMATE OF DIRECTS

 GENERAL REQUIREMENTS (CR) & GENERAL CONDITIONS (GC)

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INTERNATIONAL AFRICAN AMERICAN MUSEUM
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to per Bulletin 27 to add additional roof drains to reduce insulation thickness. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) & correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

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<td>Pricing:</td>
<td>ROM Estimate of GR’s &amp; Insurances</td>
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<td>Time Impact:</td>
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<td>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
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<td>Work Has Commenced &amp;/or Is Ongoing</td>
<td>Work Authorization is Requested By:</td>
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Submitted By: Contractor: TURNER BROWNSTONE 07/19/2021 $41,137 Amount Requested $35,056

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

Requested Action:

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price
DIRECT WORK SUBTOTAL

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Watson - Hourly Rates

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CR Hipp - Hourly Rates

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TRADE DIRECTS

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GENERAL REQUIREMENTS (C.P.) & GENERAL CONDITIONS (C.C.)

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<td>General Requirements (C.P.) &amp; General Conditions (C.C.)</td>
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Turner

DETAIL ESTIMATE OF DIRECTS

International African American Museum
Date: April 19, 2021

Attn: AJ LoDato
      Walter Lewis
      Turner Construction

Project Name: IAAM
Project Number: 04-19-005

CR HIPP Reference: PCO # 11
Project Reference: New Drains

We are pleased to provide cost to add roof drains per the field direction on time and material basis.

Total Cost  $21,232.52

Sincerely,
Debbie Marrocco
Project Manager
C.R. Hipp Construction, Inc.
Cell: (843)-425-9703

C.R. Hipp
Construction, Inc.
C. R. HIPP CONSTRUCTION COMPANY  
COST DETAIL

To: Turner  
Job No.: 04-19-005

Project: IAAM  
Contract No.:  
Date: 4/18/2021

Subj: Additional Floor Drains  
PCO No.: 11

MATERIAL AND EQUIPMENT COST
A. Material  $4,880.49
B. Equipment  $0.00
G. Miscellaneous material  40.00% of A  $488.05
D. Escalation  0.00% of A & C  $0.00
E. Subtotal  $5,368.54
F. Sales Tax  $0.00
G. TOTAL  $5,368.54

LABOR COST
A. Labor - Plumbers  464.00 Hours at Rate $32.64 per hour.  $15,012.96
B. Labor - Sheetmetal  0.00 Hours at Rate $32.64 per hour.  $0.00
C. Labor -fitter/welder  0.00 Hours at Rate $32.64 per hour.  $0.00
D. Labor - OT  0.00 Hours at Rate $16.32 per hour.  $0.00
B. Foreman  41.00 Hours at Rate $35.72 per hour.  $1,464.52
G. Superintendent  41.00 Hours at Rate $50.75 per hour.  $2,090.75
D. Project Manager  2.00 Hours at Rate $48.78 per hour.  $97.56
E. Subtotal  $18,655.79
F. Insurance and Taxes  55.00%  $4,047.68
G. Site Overhead  0.00% of field labor cost.  $0.00
H. Efficiency  0.00% of field labor cost.  $0.00
I. TOTAL  $13,948.47

OTHER COST
A. Additional Insurance Requirements  $0.00
B. Small Tool Expense  0.00% of field labor.  $0.00
C: Blueprint Reproduction  $0.00
D: Engineering  $0.00
E: Operations on More Than One Floor  0.00% of field labor.  $0.00
F: Excavation and Backfill  0 cu.yds. at $0.00 per cu.yd.  $0.00
G: Clean up  0.00% of field labor.  $0.00
H: Distribution of Materials  0.00% of field labor.  $0.00
I. TOTAL  $0.00

Reviewed  
Chris Wilt  
06/26/2021  

$4,880.49
$6,15
$1,25
$4,05
$11.45

Page 1 of 4
C. R. HIPP CONSTRUCTION COMPANY  
COST DETAIL CONTINUATION

Subj.: Additional Floor Drains  
COR No.: 11

SUBCONTRACTORS
A. Easy Way Insulation  
   C.R. HIPP Calculation Sheet adds in OH+P from 2nd Tier Sub that is already calculated in Subcontractors section. This amount should not be added in subtotal to be used for OH+P calculation. 2nd Tier Subtotal and OH+P added separately below
   $1,520.00
B. Advance Concrete
   $750.00
C.
   $0.00
D.
   $0.00
E.
   $0.00
F.
   $0.00
G. Subtotal Subcontractor cost
   $2,270.00
H. Overhead and Profit 5.00%
   $113.50
I. TOTAL
   $2,383.50

RECAP
A. Subtotal All Cost
   $16,319.5
B. Warranty 0.00%
   $0.00
C. Overhead 10.00%
   $1,631.95
D. TOTAL JOB COST
   $17,951.45
E. Profit 5.00%
   $897.57
F. Subtotal Sell Price
   $1,062.16
G. Bond 0.00%
   $24,688.88
H. Mechanical Price
   $0.00
I. 2nd Tier Sub Total
   $2,383.5
TOTAL PRICE
   $24,689.00

This change will require a 0 day time extension to complete contract.

This change proposal covers only direct costs associated with the change order work described above. We reserve the right to assess the impact of this change at a later date and to submit these cost as they become known. It is anticipated that all work required by this change will be done on a straight time basis. Overtime work, if required, will be invoiced as an additional item.

Please advise as soon as possible if we are to proceed.
Debbie Marrocco

From: Cody Singletary <Cody@EasyWayInsulation.com>
Sent: Monday, March 15, 2021 7:20 AM
To: Joey Nelson
Subject: EWI- IAAM Extra Work

Grease Trap Pads on the 1st floor- 450.00

4 roof drains on the 2nd floor approximately 25lf- 250.00

5 Mechanical room extra floor drains approximately 90lf- 820.00

Cody Singletary

Easy Way Insulation, Inc
5920 Campbell St.
Hanahan, SC 29410
W: (843) 747-5309
F: (843) 747-3084
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

PROJECT: Fleming Museum
DATE: 1-13-21
BY: Chris Brinson

CONTRACTOR: CR Hipp
DESCRIPTION OF WORK: Profiled Roof Drains 4 new per change
Laying out on 2nd & 3rd Floor to transfer marks due to Steel not on 3rd Roof area. That is on 2nd.

ABOVE WORK DESCRIPTION AUTHORIZED BY:
CONTRACTOR SIGNATURE
DATE

ABOVE WORK DESCRIPTION ACCEPTED BY:
SUBCONTRACTOR SIGNATURE
DATE

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SUBTOTAL
SALES TAX
TOTAL MATERIALS

TOTAL LABOR

SUMMARY
- TOTAL MATERIAL COST
- TOTAL LABOR COST (+ Burden)
- SUBTOTAL
- OVERHEAD/PROFIT @
- TOTAL
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

PROJECT:  IAAM
DATE: 1/20/21  JOB NO.: 04-19-005
BY:  Chris Brinson
WORK AUTHORIZATION NO.:  

CONTRACTOR:  CR Hipp
DESCRIPTION OF WORK: Core 4 holes in 3rd Floor Slab/Roof Area
Grout Roof Drains in Slab 4 Plus Drains for water stop
Tie pipe into Drain bodies underneath slab

ABOVE WORK DESCRIPTION AUTHORIZED BY:

ABOVE WORK DESCRIPTION ACCEPTED BY:

CONTRACTOR SIGNATURE DATE

MATERIALS FURNISHED

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SUBTOTAL

SALES TAX

TOTAL MATERIALS

TOTAL LABOR

SUMMARY

TOTAL MATERIAL COST
TOTAL LABOR COST (+ Burden)
SUBTOTAL
OVERHEAD/PROFIT @
TOTAL
**EXTRA WORK AUTHORIZATION**

**CONTRACTOR:** C.R. Hipp  
**DESCRIPTION OF WORK:** Cut storm piping & install combo tie in new roof drain north west 2nd floor. Install hangers to support new piping

**Supt. - Chris Brinson**  
**Foreman - Chris Dangerfield**  
**Plumber - Pecola Wheeling**  
**Plumber Helper - Laphare Clemons**

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<td>Chris Dangerfield</td>
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<td>Chris Martin, Pecola Wheeling</td>
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<td>Laphare Clemens</td>
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**SUMMARY**

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<th>OVERHEAD/PROFIT @</th>
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<th>TOTAL</th>
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<tbody>
<tr>
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</table>
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

CONTRACTOR: C.R. Hipp

DESCRIPTION OF WORK: Install 2 Roof Drains 2nd Fl. north side
Insulate new install of pipe

Supt - Chris Brinson
Foreman - Chris Dancer Field
Plumbers - Chris Martin - Donald Herdee - Paul Wheeler

ABOVE WORK DESCRIPTION AUTHORIZED BY:
CONTRACTOR SIGNATURE 2-3-2021
DATE

ABOVE WORK DESCRIPTION ACCEPTED BY:
SUBCONTRACTOR SIGNATURE
DATE

<table>
<thead>
<tr>
<th>MATERIALS FURNISHED</th>
<th>LABOR FURNISHED</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE OF MATERIAL</td>
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</tr>
<tr>
<td>QTY</td>
<td>Supt</td>
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<tr>
<td>UNIT PRICE</td>
<td>Foreman</td>
</tr>
<tr>
<td>AMOUNT</td>
<td>Plumber</td>
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SUBTOTAL
SALES TAX
TOTAL MATERIALS

TOTAL LABOR

SUMMARY
TOTAL MATERIAL COST
TOTAL LABOR COST (+ Burden)
SUBTOTAL
OVERHEAD/PROFIT @
TOTAL
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

PROJECT: JHHS
DATE: 2-1-21
JOB NO.: 04-19-005
BY: Chris Brinso

CONTRACTOR: CR Hipp

DESCRIPTION OF WORK:
Install 4" Roof Drain East End North side
Cut storm pipe, Install Fittings. Tie in Roof Drain body
Insulate piping.

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>TYPE OF MATERIAL</td>
<td>TRADE CLASSIFICATION</td>
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<tr>
<td></td>
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<tr>
<td>Chris Brinso</td>
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</tr>
<tr>
<td>Chris Davis</td>
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</tr>
<tr>
<td>Don Herde, Chris Martin, Bruce Wesley</td>
<td>Plumbers</td>
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<tr>
<td></td>
<td>Hunter Sinclary</td>
</tr>
<tr>
<td></td>
<td>Insulator</td>
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CONTRACTOR SIGNATURE: [Signature]
2-3-2021

SUBTOTAL

SALES TAX

TOTAL MATERIALS

SUMMARY

TOTAL MATERIAL COST

TOTAL LABOR COST (+ Burden)

SUBTOTAL

OVERHEAD/PROFIT @

TOTAL
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

CONTRACTOR: C.R. Hipp

DESCRIPTION OF WORK: Install Roof Drain North east
Cut, Max and Install Roof Drain Tee. Install Hangers For Added Tee, Insulate Tin on Roof Drains

ABOVE WORK DESCRIPTION AUTHORIZED BY:

CONTRACTOR SIGNATURE
2-3-2021

ABOVE WORK DESCRIPTION ACCEPTED BY:

SUBCONTRACTOR SIGNATURE

MATERIALS FURNISHED

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<td>Chris Martin</td>
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<td>Proctor Wheeling</td>
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<td>Hunter Sledetary</td>
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LABOR FURNISHED

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SUBTOTAL

SALES TAX

TOTAL MATERIALS

TOTAL LABOR

SUMMARY

TOTAL MATERIAL COST

TOTAL LABOR COST (+ Burden)

SUBTOTAL

OVERHEAD/PROFIT @

TOTAL
C.R. Hipp Construction, Inc.
EXTRA WORK AUTHORIZATION

PROJECT: J0504
DATE: 2/3/21
JOB NO.: 04-19-005

BY: Chris Brinson
WORK AUTHORIZATION NO:

CONTRACTOR: CR Hipp

DESCRIPTION OF WORK: Install Added Roof Drains, Cut & Install Fitting & Pipe to New Drain Body & Test All New Piping

ABOVE WORK DESCRIPTION AUTHORIZED BY:

CONTRACTOR SIGNATURE
DATE 2/3/2021

ABOVE WORK DESCRIPTION ACCEPTED BY:

SUBCONTRACTOR SIGNATURE
DATE

MATERIALS FURNISHED

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<tr>
<td>Chris Dansefield</td>
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<tr>
<td>Chris Martin</td>
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<td>Preola Wheeling</td>
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LABOR FURNISHED

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SUBTOTAL
SALES TAX
TOTAL MATERIALS

TOTAL LABOR

TOTAL MATERIAL COST
TOTAL LABOR COST (+ Burden)
OVERHEAD/PROFIT @
TOTAL
**FERGUSON ENTERPRISES LLC #34**

**Price Quotation**

**Deliver To:** DAVID 364-9302CELL  
**From:** Ken Nelson  
**Comments:**

---

**Bid No:** B778871  
**Bid Date:** 02/24/21  
**Quoted By:** KN  
**Cust Phone:** 843-744-4477  
**Terms:** NET 10TH PROX  
**Ship To:** C R HIPP CONSTRUCTION  
PO BOX 2350  
MAIN ACCOUNT  
IAAM-AFRICAN AMERICAN MUSE  
GOOSE CREEK, SC 29445  
**Job Name:** IAAM-AFRICAN AMERICA  

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<th>Net Price</th>
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<td>SP-ZP1213EXTUSA</td>
<td>3 ORD EXT</td>
<td>36</td>
<td>71.389</td>
<td>EA</td>
<td>2570.00</td>
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<tr>
<td>SP-Z3EXTPARTSBAG</td>
<td>3EXT PARTS BAG 121 EXT</td>
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<td>SP-ZP1214EXTUSA</td>
<td>P121-4EXT USA</td>
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<td>21.667</td>
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**Net Total:** $4477.51  
**Tax:** $402.98  
**Freight:** $0.00  
**Total:** $4880.49

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer’s acceptance of Seller’s terms and conditions, which are incorporated by reference and found either following this document, or on the web at [https://www.ferguson.com/content/website-info/terms-of-sale](https://www.ferguson.com/content/website-info/terms-of-sale)  
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with "NP" in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

---

**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**
Scan the QR code or use the link below to complete a survey about your bids:  
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
Pricing is based on Bulletin #27 documentation dated 12/17/2020.

Inclusions:
Demo and reinstall conduits and conduit racks system(s) to allow for roof drain changes.
Demo and reinstall individual conduit raceways for roof drain changes.

Exclusions:
Costs for any additional materials if required.

Clarifications:
Approved change order or formal work directive is required prior to scheduling or performing this work.
If this work is accepted and required this will be considered a delay and additional costs will be evaluated and submitted seperately.
Manpower will require two weeks to procure.
Per diem included for 2 men for 3 weeks.
Conduit and conduit racks are to be reinstalled at same dimensions.
If more than 8 sections or areas of conduit are need to be removed additional costs will be added to this pricing.

Revised:
Branch racks only removed, no feeder racks required to be removed. Reduced time.
Less than 8 section were removed.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 10 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_32 R1>.

Itemized Breakdown

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<thead>
<tr>
<th>Description</th>
<th>Qty</th>
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<th>Total Hrs.</th>
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</thead>
<tbody>
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<tr>
<td>2&quot; COUPLING COMP STL - EMT</td>
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<td>282.04</td>
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<tr>
<td>3&quot; LOCKNUT - S/S</td>
<td>10</td>
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<td>DEMO</td>
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<tr>
<td>REINSTALL</td>
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<td>596.21</td>
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# PROPOSED CHANGE ORDER

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<td>Material Tax</td>
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<td><strong>14,936.74</strong></td>
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## CONTRACTOR CERTIFICATION

Name:  
Date:  
Signature:  
I hereby certify that this quotation is complete and accurate based on the information provided.

## CLIENT ACCEPTANCE

PCO #: 38  
Final Amount: $14,936.74 $9,791.30  
Name:  
Date:  
Signature:  
Change Order #:  
Thereby accept this quotation and authorize the contractor to complete the above described work.
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<th>Wed</th>
<th>Thu</th>
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<tr>
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<tr>
<td>Week:</td>
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<tr>
<td>Month:</td>
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<td>Description:</td>
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<tr>
<td>Q: 3 - Piece EMT 3/4&quot; Coupling</td>
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Employee Signature: "3/4" Coupling

Q: 3 - Piece EMT 3/4" Coupling

Job Complete
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<td>Hours</td>
<td>Description</td>
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<td>23.9</td>
<td>32' 2 Part Coupling</td>
</tr>
<tr>
<td>Jordan F</td>
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<td>32' 2 Part Coupling</td>
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<tr>
<td>George M</td>
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**Labor Used**

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<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
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<th>Sun</th>
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**Equipment Used**

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<tr>
<td>32' 2 Part Coupling</td>
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<tr>
<td>32' 2 Part Coupling</td>
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**Material Used**

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### Material Used

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### Equipment Used

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<td>OT 5</td>
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<td>Robert E. Bank</td>
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<td>Jordan Taylor</td>
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### Labor Used

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<thead>
<tr>
<th>Walnut Creek Location</th>
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<th>RT</th>
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---

**Work Performed:**
- Install Conduits and Racks
- Install Conduits

---

**Date Work Performed:** 02/01/2021

**Supervisor/Foreman:** George Washington

**Contractor:** Turner

**Job Name:** Power

**Job #:** 21071

---

**Job No.:** Power Not a 21071

**Complete:**
- [ ] Not Complete
- [X] Complete

**Approved By:**

---

**Notes:**
- Material Used:
- Equipment Used:
- Labor Used:
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<thead>
<tr>
<th>Employee Name</th>
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<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>Hung Thoong</td>
<td>2319</td>
<td>RT</td>
<td></td>
<td>10</td>
<td></td>
<td></td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jordan Failey</td>
<td>2319</td>
<td>OT</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Robert EBank</td>
<td>2319</td>
<td>RT</td>
<td></td>
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<td></td>
<td>10</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>George Washington</td>
<td>2319</td>
<td>OT</td>
<td></td>
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<table>
<thead>
<tr>
<th>Labor Used</th>
<th>Week Ending</th>
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<th>Total</th>
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<table>
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<tr>
<th>Equipment Used</th>
<th>Rental Usage</th>
<th>Rental Rate</th>
<th>Day</th>
<th>Week</th>
<th>Month</th>
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<table>
<thead>
<tr>
<th>Material Used</th>
<th>Description</th>
<th>Qty</th>
<th>Item</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3 - Scissor Lifts</td>
<td>10</td>
<td>EMT Locknut</td>
</tr>
</tbody>
</table>

Complete By: [Signature] | Job Complete: [Check]

Worson Electrical Construction Co., LLC

Not Complete

02/02/2021

George Washington

Turner

I.A.A.M.

C.O.R. NUMBER

JOB / W.O. NUMBER

CONTRACTOR

DATE WORK PERFORMED
## Material Used

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
<th></th>
<th></th>
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<tbody>
<tr>
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</table>

## Equipment Used

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>DAY</th>
<th>WEEK</th>
<th>MONTH</th>
<th>DAY</th>
<th>WEEK</th>
<th>MONTH</th>
<th>DAY</th>
<th>WEEK</th>
<th>MONTH</th>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

## Labor Used

Re: IAAM Bulletin #27
- Charleston, SC

**Scope:** Apply 1-1/2" of Cafco Blaze-Shield II spray fireproofing to deck around 4 roof drains per Bulletin #27 drawings.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Labor Straight Time</strong></td>
<td>$60.00</td>
<td>per man hour</td>
<td>12</td>
<td>$720</td>
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<tr>
<td><strong>Labor Over Time</strong></td>
<td>$81.00</td>
<td>per man hour</td>
<td>0</td>
<td>$0</td>
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<tr>
<td><strong>Material – Standard Density</strong></td>
<td>$37.00</td>
<td>per bag</td>
<td>16</td>
<td>$592</td>
</tr>
<tr>
<td><strong>Material – Bond Seal</strong></td>
<td>$290.00</td>
<td>per 5 gallon bucket</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Pump Rental</strong></td>
<td>$70.00</td>
<td>per day</td>
<td>1</td>
<td>$70</td>
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<tr>
<td><strong>Mobilization</strong></td>
<td>$1,500.00</td>
<td>per trip</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<td></td>
<td></td>
<td>$1,382</td>
</tr>
</tbody>
</table>

**Conditions:** Any items including but not limited to MEP’s that may hinder the ability to apply fireproofing as required will be up to others to move.

See below for additional requirements.

Should you have questions, please contact our office at 704-521-5200.

Best Regards,

Daniel Adams
Warco Construction, Inc.
CONDITIONS FOR FIREPROOFING PROPOSAL

1. Surfaces to receive fireproofing will be free from any substance that would impair adhesion. Structural steel shall be mill-finished (no paint) and decking shall be galvanized.

2. This proposal excludes any costs associated with heating, ventilation, dehumidification, or cold weather protection. Proper drying requires a minimum of four (4) air exchanges per hour to be provided by others.

3. Adequate water provided by the General Contractor includes a water source within 150 ft of fireproofing set-up with 60 psi at the fireproofing set-up. Adequate electrical power provided by the General Contractor is to be within 100 ft of fireproofing pump set-up.

4. Before roofing protection can begin, roof construction must be completed and traffic must cease on roof while our spray is being executed and while fireproofing is curing. Traffic on roof after curing is complete may also cause the bond between fireproofing and deck to break. We will not accept responsibility for this damage.

5. Within building, we require free and clear ingress/egress for movable scaffolds from the floor line to the area to be fireproofed. No installation that would restrict movement of our scaffolds, personnel or equipment or limit our uninterrupted application of fireproofing will be permitted. Clutter, debris and/or items stored on the floor must be located where they will not interfere with said application. Protection of these items is not the responsibility of WARCO CONSTRUCTION, INC.

6. All patchwork and repairing of fireproofing due to damage (intentional or unintentional) by others is excluded.

7. After completion of fireproofing work, equipment shall be removed and all exposed wall and floor areas shall be left in broom-clean condition. We shall deposit trash and overspray in a centrally located dumpster furnished by others.

8. Performance and Payment Bonds are excluded. If required, the premium cost should be added at a rate of 1.5%.

9. We do not include any cost for field-testing by and independent laboratory.

10. We take exception to any contract clauses regarding that our final payment is contingent upon your payment from the Owner, as we are looking to you for our payment.

11. Rolling scaffolds that conform to OSHA standards will be used to perform a continuous spray operation. If more stringent safety requirements are enforced, which require us to get off of scaffolds prior to moving them, we may require an increase in our price to offset the costs of labor and/or lift rentals.

12. The UL approved option of Glass Fiber Mesh may be used to facilitate the spray application on joist members. We exclude cutting out the unused portions of mesh, which may affect the sprinkler head spray patterns and spacing.
**Cumming Change Order Proposal Review Form**

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 7/12/2021  
**Contractor:** Turner Construction Company  

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 109  
**Contract:** Construction  

**Description of work to be performed:** Memorial Wall Changes - Bulletin 17, 17.1, 17.2, 17.3  
This change is associated with the material and labor to change the size of the CMU block for the memorial wall. The original GMP drawings call for a fully grouted double 10” CMU wall. This gets changed to a 10” & 8” CMU block, filled with grout, as well as a bond beam in the middle of the CMU wall height. The bulletin also expands the size of the footer, adding additional rebar.

**Justification:** C - Errors and Omissions

**Attachments:**  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)  

**Cost Estimate (Expected to Exceed $10,000):** Change Proposal Request from CMR with Detailed Backup

**Proposal Cost (not to exceed):** $29,885.00  
**Owner Contingency Allow. Bal.:**

**Time Extension Requested:** Time Extension Recommended:

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

---

**Decision needed by:** July 12, 2021  
**(NO) (YES)**  
**Mike Risteski, Cumming Corp.**

**Approved:**

**(NO) (YES)**  
**Rick Holt, Cumming Corp.**

**(NO) (YES)**  
**Robert Faust, Cumming Corp.**

**(NO) (YES)**  
**Edmund V. Most, City of Charleston**

**(NO) (YES)**  
**Bernard Costantino, Moody Nolan**

**(NO) (YES)**  
**Robert Lahrmeir**
Date Submitted: March 31, 2021

To: Edmund Most
City of Charleston

Re: International African American Muesum
Bulletin 17, 17.1, 17.2, 17.3

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install materials and labor associated with Bulletin 17, 17.1, 17.2, 17.3. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Pricing: □ ROM Estimate of GR’s & Insurances  □ ROM Estimate for Entire PCO  □ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates
Time Impact: □ Evaluating Potential for Time Impact  □ Evaluated - NO TIME IMPACT  □ Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
□ Work has been Completed  □ Work Has Commenced &/or is Ongoing  □ Work Authorization is Requested By:

Submitted By: Walter Lewis  Project Engineer  03/31/2021
Contractor: TURNER BROWNSTONE
03/31/2021  Amount Requested $29,885

Requested Action:
□ Authorized to Proceed While Pricing  □ Price Only  □ Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

Dated / / Amount Requested $29,885

Authorized Action:
□ Authorized to Proceed While Pricing  □ Price Only  □ Do Not Proceed or Price
<table>
<thead>
<tr>
<th>Description of Work</th>
<th>109</th>
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General Summary of the Estimate
International African American Museum

<table>
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<tr>
<th>Estimate Total</th>
<th>$27,489</th>
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<td></td>
<td>$934.35</td>
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<tr>
<td></td>
<td>$1,577</td>
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<td></td>
<td>$201.22</td>
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<td></td>
<td>$320.91</td>
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<td></td>
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<tr>
<td></td>
<td>$687.23</td>
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<td></td>
<td>$27,489</td>
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<table>
<thead>
<tr>
<th>Overhead and Profit</th>
<th>@ 3.25%</th>
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<tr>
<td>Procure</td>
<td>@ 0.04500</td>
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<tr>
<td>Performance and Payment Bond</td>
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</tr>
<tr>
<td>Builders Risk</td>
<td>@ 0.00732</td>
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<tr>
<td>Surplus</td>
<td>@ 0.012</td>
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<tr>
<td>CP</td>
<td>@ 0.250</td>
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<thead>
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<th>SUBTOTAL TRADE DIRECTS</th>
<th>$27,489.00</th>
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<tr>
<td>DESCRIPTION OF WORK</td>
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<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
<th>109</th>
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<tbody>
<tr>
<td>CONDITIONS (GC'S) &amp; GENERAL REQUIREMENTS (GR'S) &amp; GENERAL TRADE DIRECTS</td>
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</table>

Turner
### Additional Scope of Work

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Partition - Change to Masonry Wall</td>
<td>$20,990.00</td>
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<tr>
<td>Doorway Change to Steel Wall</td>
<td>$6,650.00</td>
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<td>$6,650.00</td>
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### General Requirements (G.R.) 4 General Conditions (G.C.)

<table>
<thead>
<tr>
<th>Description</th>
<th>Cor No.: 109</th>
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<tbody>
<tr>
<td>DETAIL ESTIMATE OF DIRECTS</td>
<td>International African American Museum</td>
</tr>
<tr>
<td>Item</td>
<td>Unit</td>
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<tr>
<td>--------------</td>
<td>--------</td>
</tr>
<tr>
<td>Concrete</td>
<td></td>
</tr>
<tr>
<td>Labor</td>
<td></td>
</tr>
<tr>
<td>Equipment</td>
<td></td>
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<tr>
<td>Materials</td>
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</table>

**Additional Information**

- **Schedule Impact**: 1 Day
- **Total**: $6,550
- **Materials**
- **Equipment**
- **Concrete**
- **Labor**

**Agent**: Donley's Concrete Group

**Donley's Concrete Group**

Submitted by: Chris Howat, Project Manager
### Harris Rebar North Carolina Inc.

**Project No:** 06219158-21  
**Change Order #21**  
**Date:** May 12, 2020

**To:** Donley's Concrete  
**Mr. Chris Hewitt**  
**Project:** International African American Museum  
**Loc.:** Charleston, SC  
**Arch.:**

**Change Order #21:** Approximately 1.31 tons plain rebar for $1,678.00 including applicable tax.  
**Description:** Additional rebar and 1 hour of detailing time required per Bulletin 017 dated 5/8/20. Bulletin revised the Warehouse CMU wall foundation to 6'-06" wide, revised longitudinal bars to 7 #6 continuous, and added #5 transverse bars at 12".

---

**Accepted by Buyer**

<table>
<thead>
<tr>
<th>This day of</th>
<th>Buyer's name:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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**Approved By:**

**Name/Title:**

---

**Harris Rebar North Carolina Inc.**

<table>
<thead>
<tr>
<th>By: Neil Byrd</th>
<th>Title: Sales Estimator</th>
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<tbody>
<tr>
<td>5/12/2020</td>
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**Approved By:**

**Name/Title:** Gary Rhodes, Area Manager
3/28/2021

Masonry Change Order for Bulletin 17.3

PatCon Industries (PCI) is requesting a change order for the warehouse wall according to 17.3 for a total price of **$20,939.20**. The price breakdown is as follow:

<table>
<thead>
<tr>
<th>Price Breakdown</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The material price add for more rebar (and grout) will be an add of <strong>$7,065.20</strong></td>
</tr>
<tr>
<td>2. The labor price add for more rebar (and grout) will be <strong>$5,601.10</strong></td>
</tr>
<tr>
<td>3. The labor price add for going from a 8&quot; CMU and 12&quot;CMU to a 8&quot;CMU and 10&quot;</td>
</tr>
<tr>
<td>CMU is <strong>$0</strong></td>
</tr>
<tr>
<td>4. The material price for going from a 8&quot; and 12&quot; CMU wall to a 8&quot; and 10&quot; CMU</td>
</tr>
<tr>
<td>wall is <strong>$7,573.13</strong></td>
</tr>
<tr>
<td>5. The price for fabricating new shop drawings will be an add of <strong>$700.00</strong></td>
</tr>
</tbody>
</table>

**PatCon Industries is a fully certified MBE** that specializes in masonry work. If you have any questions about our company, bid proposal, or scope of work, please email us at wpatterson@patconind.com, call us at 803-783-4123, or visit our website at www.patconind.com. Our Construction Manager Certificate Number is **CCM.647** and our General Contractor License Number is **G115927**.

**Please add us to your bid list if we are not currently not on it.**
We look forward to working with you.

**Will Patterson**
Lead Estimator
803-783-4123
patconindustries@gmail.com
www.patconind.com
Cumming
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 115R
Contract: Construction

Description of work to be performed: Monumental Stair Railing (ADA) - Bulletin 24
This change is associated with the material and labor to install additional railing to the monumental
stair with a sapele wood handrail. This change was prompted in order to meet ADA requirements.
The change was issued in Bulletin 24

Justification: C - Error and Omission

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $15,678.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

(Circle One) (YES) (NO) Mike Risteski, Cumming Corp.

(Circle One) (YES) (NO) Rick Hall, Cumming Corp.

(Circle One) (YES) (NO) Robert Faust, Cumming Corp.

(Circle One) (YES) (NO) Edmund V. Most, City of Charleston

(Circle One) (YES) (NO) Bernard Costantion, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Reason:**
- [X] Owner Directive
- [X] Code / Regulatory
- [ ] Unforeseen Condition
- [X] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

**Submitted By:**
- Contractor: **TURNER BROWNSTONE**
- Amount Requested: $15,678

**Requested Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Authorized Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Approved By:**
- Owner: **City of Charleston**
- Amount Approved: $15,678
<table>
<thead>
<tr>
<th>Estimate Total</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>$490.77</td>
<td>3.25% @ 0.450% @</td>
</tr>
<tr>
<td>$6.49</td>
<td></td>
</tr>
<tr>
<td>$105.56</td>
<td>0.007% @ 0.8% @</td>
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<tr>
<td>$121.74</td>
<td>0.12% @ 2.5% @</td>
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<tr>
<td>$280.33</td>
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<tr>
<td><strong>Subtotal</strong></td>
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<table>
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<tr>
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<td>$0</td>
<td>Trade Directs Conditions</td>
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<tr>
<td>$0</td>
<td>General Requirements (G.R.) &amp; General Conditions (G.C.S.) Self-Performed Labor</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Details</th>
<th>Description of Work</th>
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</thead>
</table>

**Cor No:** 115P

General Summary of the Estimate

International African American Museum
**COR No.**: 115R

**International African American Museum**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition Rail - Add Steel Handrail</td>
<td>$ 6,494.00</td>
<td>1</td>
<td>$ 6,494.00</td>
</tr>
<tr>
<td>All Pro Buildings - Add Steel Erection</td>
<td>$ 4,337.00</td>
<td>1</td>
<td>$ 4,337.00</td>
</tr>
</tbody>
</table>

**Total** $15,463.21

**Direct Work Subtotal** $15,463.21

**General Requirements (GR's) & General Conditions (GC's)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>$15,463.21</td>
</tr>
</tbody>
</table>
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 22 as outlined on the back up page. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:  
1. Owner Directive  
2. Code / Regulatory  
3. Unforeseen Condition  
4. Design Issue  

Pricing:  
1. ROM Estimate of GR’s & Insurances  
2. ROM Estimate for Entire PCO  
3. Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates  

Time Impact:  
1. Evaluating Potential for Time Impact  
2. Evaluated - NO TIME IMPACT  
3. Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)  

Submitted By:  

Wiliam Lewis  
Project Engineer  
04/15/2021  
Dated  

Contractor:  
TURNER BROWNSTONE  
04/15/2021  
$14,482  
Amount Requested  

Requested Action:  
1. Authorized to Proceed While Pricing  
2. Price Only  
3. Do Not Proceed or Price  

Authorized Action:  
1. Authorized to Proceed While Pricing  
2. Price Only  
3. Do Not Proceed or Price  

Reviewed By:  

Program Manager:  CUMMING  
Dated  

Approved By:  

Owner:  City of Charleston  
Dated  

$14,482  
Amount Approved
| Description                             | Amount   | %  
|----------------------------------------|----------|---
| Overhead and Profit                    | $452.78  | 3.25%  
| Procure                                | $99      | 0.4500% |
| Performance and Payment Bond           | $975.15  | 0.00732 |
| Builders Risk                          | $111.90  | 0.044%  
| Subgrades                               | $185.85  | 0.120%  
| CIP                                     | $333.03  | 0.200%  

Subtotal: $13,321

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRADE DIRECTS</td>
<td>$13,321.00</td>
</tr>
<tr>
<td>CONDITIONS (GC's)</td>
<td></td>
</tr>
<tr>
<td>MATERIALS &amp; EQUIPMENT</td>
<td></td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (GC's) &amp; GENERAL</td>
<td></td>
</tr>
<tr>
<td>SELF-PERFORMED LABOR</td>
<td></td>
</tr>
</tbody>
</table>

Description of Work: Item 15

Cor No.: 115

General Summary of the Estimate

International African American Museum

Turner
## Trade Directs

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paint Steel rail - Pinion - Weld Handrail - Plug</td>
<td>$2.650.00</td>
<td>1</td>
<td>$2.650.00</td>
</tr>
<tr>
<td>Ship - Adjacent Buildings - Add Adjacent Building 2A</td>
<td>$4.337.00</td>
<td>1</td>
<td>$4.337.00</td>
</tr>
</tbody>
</table>

### Additional Scope of Work

#### General Requirements (GR.9) & General Conditions (GC.9)

<table>
<thead>
<tr>
<th>Division of Work</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>COR NO. 115</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Turner International African American Museum
Change Order Request #2

General Contractor: All Pro Builders & Restorations, LLC
14103 Northridge Drive
Charlotte, NC 28269

Owner: Turner Construction
4601 Park Road
Charlotte, NC 28209

Date: 11-March-21

Job #: ____________________

Project: International African American Museum

Ticket#: ____________________

Location: Charleston, SC

Contract #: 4700140857

PCO#: 2

Reason for Change Request: Sapele Handrails

Per Bulletin 24, the Price is for the installation of an additional forty (40) linear feet of sapele handrail.
<table>
<thead>
<tr>
<th>Scope of Work</th>
<th>Unit of Measure</th>
<th>Unit Cost</th>
<th>Total Amount</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Materials / Miscellaneous</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sapele Hand Rails - 40 linear feet</td>
<td>1</td>
<td>$3,854.75</td>
<td>$3,854.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>$ -</td>
<td>$ -</td>
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<td>$ -</td>
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<td></td>
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<tr>
<td></td>
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<tr>
<td><strong>Total Materials</strong></td>
<td></td>
<td></td>
<td>$3,854.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Subtotal</td>
<td>$3,854.75</td>
</tr>
<tr>
<td><strong>Labor</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hr.</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hr.</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hr.</td>
<td>$ -</td>
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<tr>
<td></td>
<td>Hr.</td>
<td>$ -</td>
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<tr>
<td></td>
<td>Hr.</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
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<tr>
<td></td>
<td>Hr.</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td><strong>Total Labor</strong></td>
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<td></td>
<td>0</td>
<td>$0.00</td>
</tr>
<tr>
<td><strong>Burden (excluding WC &amp; GL if you are enrolled in CCIP)</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Subtotal</td>
<td>$0.00</td>
</tr>
<tr>
<td><strong>Equipment</strong></td>
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<td></td>
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<tr>
<td></td>
<td>Day</td>
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<td></td>
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<tr>
<td></td>
<td>Week</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td><strong>Total Equipment</strong></td>
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<tr>
<td></td>
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<td>Subtotal</td>
<td>$3,854.75</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>---</td>
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<tr>
<td>Overhead 12.5%</td>
<td>$481.84</td>
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<tr>
<td>Fee 5%</td>
<td>$0</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td>$4,336.59</td>
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<tr>
<td>Plus Subcontracted Work</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Fee 5%</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$4,336.59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Unburdened Labor (Including Subcontractors)</td>
<td>$0.00</td>
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<td></td>
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</tr>
</tbody>
</table>

The Owner’s Acceptance of this Extra Work Order acknowledges that (i) All-Pro Builders & Restorations, is authorized and directed to perform the above work, (ii) the performance of said Work is outside the scope of All-Pro Builders & Restorations, under the Subcontract for the project referenced above and (Owner has an obligation to pay for said Work in accordance with the terms of the Subcontract.

All-Pro Builders & Restorations, LLC:  

ACCEPTED BY:

_________________________  

_________________________  

_________________________  

_________________________
CHANGE ORDER
CONTRACTOR: DK HAYDEN CONSTRUCTION, LLC
205 Ayrshire Town Blvd, Suite 202 | Charlotte | NC | 28273

Email: thayden@dhaydenconstruction.com
Phone: 704.516.3714

Date: February 24, 2021

Change Order #002

Change Order Date: March 9, 2021

Customer/Owner: International African American Museum
Job Address: 113 Calhoun St, Charleston, SC 29401
General Contractor: Turner Construction & Brownstone

Pursuant to terms of the Original Contract, dated for the project referenced above, the following changes above, the following changes/additional/deletion work are hereby agreed to and approved:

SCOPE:
DK Hayden will provide the cost increase to install additional sapele hand rails per Bulletin 24 Pricing.

Sapele Hand Rails - 40 linear feet x $44.58 = $1,783.21 x 15% $ 2,050.69
Labor - 40hours x $44.89 = $ 1,795.60
Textura $ 8.46

Original Contract Sum

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Amount of previous change order</td>
<td>$ 44,988.05</td>
</tr>
<tr>
<td>Total Contract Amount plus or minus net change order</td>
<td>$ 494,022.05</td>
</tr>
<tr>
<td>Total cost of this change order for additional sapele hand rails per Bulletin 24</td>
<td>$ 3,854.75</td>
</tr>
<tr>
<td>Proposed New/Revised Contract including this change order</td>
<td>$ 497,876.80</td>
</tr>
</tbody>
</table>

Payment for this Change order is due upon completion of this work and submittal of the invoice by contractor.

I have read and understand the change order as listed above and I agree to sum changes for the change order.

General Contractor/Client/Owner
DK Hayden Construction

By (signature) By (signature)

Date: 03.09.2021
QUOTE

Southern Lumber & Millwork Corp.
PO Box 20039
Charleston, SC 29413-0039
Phone: (843) 744-6281
Fax: (843) 747-4154

To: COD100
COD ACCOUNT
SC

Ship To:
DK HAYDEN CONSTRUCTION
TONY HAYDEN
IAAM PROJECT

FOB: DLVD  Entd By: BOBD  Via: Will Notify Ship Date
Type: WHSE  In: 15 / Out: 15  Terms: CASH

Contact: TONY HAYDEN
Phone: (704) 280-8374

Your Order: TONY HAYDEN

Customer Instructions

<table>
<thead>
<tr>
<th>Line #</th>
<th>Item Number</th>
<th>Description</th>
<th>Quantity</th>
<th>U/M</th>
<th>List / Discount</th>
<th>Net Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001.00</td>
<td>99 SMER</td>
<td>SAPELE, STAIN GRADE, 2&quot; FULL ROUND EXTERIOR HANDRAIL</td>
<td>40.00</td>
<td>LFT</td>
<td></td>
<td>873.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tally (Qty/LEN): 4/10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0002.00</td>
<td>99 SMER</td>
<td>SAPELE, STAIN GRADE, 2&quot; FULL ROUND QUARTER TURN</td>
<td>2.00</td>
<td>LFT</td>
<td></td>
<td>246.00</td>
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<tr>
<td>0003.00</td>
<td>99 SMER</td>
<td>SAPELE, STAIN GRADE, 2&quot; FULL ROUND UP EASING</td>
<td>1.00</td>
<td>LFT</td>
<td></td>
<td>107.25</td>
</tr>
<tr>
<td>0004.00</td>
<td>99 SMER</td>
<td>SAPELE, STAIN GRADE, 2&quot; FULL ROUND DOWN / OVER EASING</td>
<td>1.00</td>
<td>LFT</td>
<td></td>
<td>107.25</td>
</tr>
<tr>
<td>0005.00</td>
<td>99 FR</td>
<td>FREIGHT</td>
<td>1.00</td>
<td>EA</td>
<td></td>
<td>294.00</td>
</tr>
<tr>
<td>0006.00</td>
<td></td>
<td>Remark: ALLOW 4 TO 6 WEEKS FOR DELIVERY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Purchaser agrees: (A) That the specs set forth on this work order are accurate, and (B) to pay the full purchase price as shown on the work order within thirty (30) days of the date on which Southern Lumber and Millwork Corp. notifies the purchaser that the goods are ready for delivery.

Ask for material safety data sheets

Customer Signature

Merchandise: 1,627.70
Tax: 122.96
Misc Charges: 32.55
Quote Total: 1,783.21
PROPOSED CHANGE ORDER

LYNDON STEEL COMPANY LLC
1947 Union Cross Road
Winston-Salem, NC 27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

TO: Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209
Attention: Walt Lewis
Phone: 919-788-2024  FAX: -

PROJECT: International African American Museum
Charleston, SC

PROPOSED CHANGE ORDER #: 36
REVISION #: N/A
LSC CONTRACT #: 19041
DATE: 02/01/21

Description: Added Steel Frame Rail at Atrium Stairs

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>A/D</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added cost to furnish and install (2) sections of steel frame rail at Atrium Stairs per Bulletin #24. See attached Change Order from M&amp;C Metals, LLC for added material and erection cost.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Cost does not include wood cap.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M&amp;C Metal Works, LLC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Install</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADD</td>
<td>$3,090</td>
<td></td>
</tr>
<tr>
<td>ADD</td>
<td>$2,250</td>
<td></td>
</tr>
<tr>
<td>ADD</td>
<td>$801</td>
<td></td>
</tr>
<tr>
<td>Overhead &amp; Profit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bonding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADD</td>
<td>$65</td>
<td></td>
</tr>
<tr>
<td>TAX</td>
<td>$278</td>
<td></td>
</tr>
</tbody>
</table>

This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.

Total This Change Order: $6,484

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

LSC PM: DeWitt Friedermann
e-mail: DFriedermann@lyndonsteel.com
Prepared By: Spencer Fleming

Turner Const Signature:  Date: 
LSC Signature:  Date: 02/01/21

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.

If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
DeWitt,

Please see change order request for changes to Atrium Stair per Bulletin 24. Please advise if we are to proceed. Please call if any questions.

1. ADD (2) SECTIONS OF STEEL FRAME RAIL AT ATRIUM STAIRS (PER BULLETIN 24). EXCLUDE WOOD CAP – TO BE BY OTHERS.

ADD FOR ITEM #1 $3,090.00
ADD FOR INSTALL #1 $2,250.00

M&C Metal Works, LLC

By Greg Marlow
## Estimate

**IAAM Change Orders**

**Rahman's Painting and Repairs, LLC**

P.O. Box 60776  
North Charleston, South Carolina 29406  
United States  
843-327-3884

---

**Bill To**

**Turner Brownstone**  
Bobby Teachey II  
bteachey@bstonegroup.com

**Estimate Number:** 626  
**Estimate Date:** April 12, 2021  
**Expires On:** June 12, 2021  
**Grand Total (USD):** $14,884.55

### Services

<table>
<thead>
<tr>
<th>Service Description</th>
<th>Price</th>
<th>Amount</th>
</tr>
</thead>
</table>
| **Bulletin 16.3**  
We propose to furnish labor and materials for the additional GWB walls in rooms G206 and G207 per plans and specs in bulletin 16.3 | $9,048.00 | $9,048.00 |
| **Bulletin 24**  
We propose to furnish labor and materials for the additional steel spindles at atrium per plans and specs on bulletin 24 | $3,600.00 | $3,600.00 |
| **RFI 573**  
We propose to paint (1) 4'W, 2'H, 3.5'D framed, sheathed, painted black (Promar 200) enclosure in the adjacent corridor to G201 that lines up with the ceiling of G201. | $350.00 | $350.00 |
| **Stucco at Brick**  
We propose to cut 1/4" ceiling at brick then install backer rod and caulking to replace the use of the Z molding reveals per architects approval. | $7,765.00 | $7,765.00 |
| **1/4" joints CREDIT**  
Credit for 1/4" joints | ($13,590.45) | ($13,590.45) |
| **Additional Z Molding**  
We propose to furnish and materials for the additional Z molding around the light fixtures on ground level ceiling per revised drawings dated 01/19/2021 | $7,712.00 | $7,712.00 |

**Total:** $14,884.55

**Grand Total (USD):** $14,884.55

---

If you have any questions about this invoice, please contact Maryam, 843-276-2117, rahmanspainting_repairs@hotmail.com
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 117 R2  
Contract: Construction

Description of work to be performed: Raising Ceiling Per Design  
This change is associated with the materials and labor of raising the ceiling elevation on the first floor to compensate for the camber in the structural steel.

Justification: C - Errors and Omissions

Attachments: 
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)
- Cost Estimate (Expected to Exceed $10,000)
- Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $60,450.00  
Time Extension Requested:  
Time Extension Recommended:  
Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:

Decision needed by: February 24, 2022  
(Mike Risteski, Cumming Corp.)

Approved:  
(Rick Holt, Cumming Corp.)
(Robert Faust, Cumming Corp.)
(Edmund V. Most, City of Charleston)
(Bernard Costantino, Moody Nolan)
**Date Submitted:** September 2, 2021  
**To:** Edmund Most  
City of Charleston  

**Re:** International African American Muesum  
Raising Ceiling and Walls per Design Team

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Raise Brick Angle, 1st Floor Ceiling, Etc per design team direction.</th>
</tr>
</thead>
</table>

|---------|----------------|------------------|---------------------|-------------|

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR’s &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Work Status:</th>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
<th>Work Authorization is Requested By:</th>
</tr>
</thead>
</table>

**Submitted By:**  
Contractor: **TURNER BROWNSTONE**  
09/03/2021  
$60,450  
**Amount Requested**

**Requested Action:**  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

**Authorized Action:**  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

**Approved By:**  
Owner: **City of Charleston**  
$ 60,450  
**Amount Approved**
<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description of Work</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 1</td>
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<td></td>
<td>$55,581.90</td>
</tr>
<tr>
<td>Item 2</td>
<td></td>
<td></td>
<td>$61,237.00</td>
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<tr>
<td>Item 3</td>
<td></td>
<td></td>
<td>$11,772</td>
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</table>

**Estimate Total**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description of Work</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 1</td>
<td></td>
<td></td>
<td>$55,581.90</td>
</tr>
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<td></td>
<td></td>
<td>$61,237.00</td>
</tr>
<tr>
<td>Item 3</td>
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<td>$11,772</td>
</tr>
</tbody>
</table>

**Subtotal**

$60,490

**Details**

<table>
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<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description of Work</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 1</td>
<td></td>
<td></td>
<td>$55,581.90</td>
</tr>
<tr>
<td>Item 2</td>
<td></td>
<td></td>
<td>$61,237.00</td>
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<tr>
<td>Item 3</td>
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<td></td>
<td>$11,772</td>
</tr>
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</table>

**General Summary of the Estimate**

International African American Museum
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Subtotal</th>
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<tbody>
<tr>
<td>Brick Angle Fasade</td>
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<tr>
<td>Raise Door Headers</td>
<td>$2.97</td>
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<tr>
<td>Raise Ceiling</td>
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**Additional Scope of Work**

**Trade Directs**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
</table>

**General Requirements (G.R.) & General Conditions (G.C.)**

**Cor No.: 1172**

International African American Museum
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Raise Brick Angle, 1st Floor Ceiling, Etc per design team direction.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing</td>
<td>Trade Contractors - See Detailed Estimates</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
<td>Work Authorization is Requested By:</td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Submitted By:</th>
<th>Contractor: TURNER BROWNSTONE</th>
<th>Requested Action:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Lewis</td>
<td>$60,450</td>
<td>Authorized to Proceed While Pricing</td>
</tr>
<tr>
<td>Project Engineer</td>
<td>$-66,574</td>
<td></td>
</tr>
<tr>
<td>Dated</td>
<td>Amount Requested</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reviewed By:</th>
<th>Program Manager: CUMMING</th>
<th>Authorized Action:</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Authorized to Proceed While Pricing</td>
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<tr>
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</table>

<table>
<thead>
<tr>
<th>Approved By:</th>
<th>Owner: City of Charleston</th>
<th>$66,574</th>
<th>$60,450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edmund Most</td>
<td>Amount Approved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dated</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Estimate Total

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 3.25%</td>
<td>$60,490</td>
</tr>
<tr>
<td>@ 0.25%</td>
<td>$2,515</td>
</tr>
<tr>
<td>@ 0.04%</td>
<td>$408.6</td>
</tr>
<tr>
<td>@ 0.012%</td>
<td>$969.8</td>
</tr>
<tr>
<td>@ 2.00%</td>
<td>$1,956.3</td>
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<tr>
<td>Subtotal</td>
<td>$64,283.7</td>
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</table>

### Subtotal Trade Directs

<table>
<thead>
<tr>
<th>Item</th>
<th>Trade Directs</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>General Requirments (GR) &amp; General Conditions (GC)</td>
</tr>
<tr>
<td>02</td>
<td>Material &amp; Equipment</td>
</tr>
<tr>
<td>03</td>
<td>Self Performed Labor</td>
</tr>
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</table>

### Description of Work

**Cor No.: 117**

General Summary of the Estimate

International African American Museum
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Rate per Unit</th>
<th>Units</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brick Angle Raise</td>
<td>$13.500.00</td>
<td>1</td>
<td>$13.500.00</td>
</tr>
<tr>
<td>Rasoe Door Headers</td>
<td>$29.000.00</td>
<td>1</td>
<td>$29.000.00</td>
</tr>
<tr>
<td>Rasoe Ceiling</td>
<td>$33.600.00</td>
<td>1</td>
<td>$33.600.00</td>
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</tbody>
</table>

**Project Code:** COR NO: 117

**International African American Museum**
REQUEST FOR CHANGE ORDER

Ref.#  COR-0016
GC #
Date  Nov 11, 2020
Job #  19-0998

To:  Turner Construction
      5300 Virginia Way
      Brentwood, TN  37027
      Phone: (615)231-6300
      Contact: Walt Lewis

Project:  International African American Museum
         14 Wharfside Street
         Charleston, SC

Description:  Raise the exterior ceiling 3/4" on 1st floor east

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior Framing-DW</td>
<td>800.00</td>
<td>45.00</td>
<td>$36,000.00</td>
</tr>
</tbody>
</table>

Scope of work included:
- Remove dense glass back to column line 3 Guys, 10 Hours Day, 7 Days 210 hours
- Cut and Remove Framing Clips 2 Guys, 10 Hour Day, 5 Days - 100 Hours
- Reframe to new elevation 3 Guys, 10 Hour Day, 7 Days - 210 Hours
- Reinstall Dense glass - 4 Guys, 10 Hour Day, 7 Days - 280 Hours
- This is at the entire perimeter of the building, all windows and doors openings and at balconies

Subtotal for Detail:  $36,000.00

| Labor Total:            | $36,000.00 |
| Material Total:         | $0.00      |
| Sub Trade Total:        | $0.00      |
| Adjustments Total:      | $0.00      |
| Equipment Total:        | $0.00      |
| Misc. Total:            | $0.00      |
| Sub Total:              | $36,000.00 |
| Mark Up:               | $3,600.00  10.00% |

Total:  $39,600.00

Joel Oftshun
Project Manager
To: Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
Contact: Walt Lewis

Project: International African American Museum  
14 Wharfside Street  
Charleston, SC

Description: Raised window heads 3/4" 8 exterior and 8 interior windows 2nd floor labor only

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior Framing DW</td>
<td>60.00</td>
<td>45.00</td>
<td>$2,700.00</td>
</tr>
</tbody>
</table>

Total Labor: $2,700.00

Subtotal for Detail: $2,700.00

Labor Total:  $2,700.00  
Material Total:  $0.00  
Sub Total:  $2,700.00  
Mark Up:  $270.00  10.00%  
Total:  $2,970.00

Joel Ofsthun  
Project Manager
## INVOICE

**Description:** Slot Holes inLintels at Roof  
**Job:** 434 IAAM  
**Date:** 10-12-20, 10-13-20, 10-16-20, 10-22-20, 10-23-20 and 10-26-20  
**Invoice Date:** 26-Oct-20

<table>
<thead>
<tr>
<th>Cranes</th>
<th>Quantity</th>
<th>Rate/Hr</th>
<th>Hours</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>200Ton</td>
<td></td>
<td>$500.00</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>110 Ton</td>
<td></td>
<td>$250.00</td>
<td></td>
<td>$0.00</td>
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<tr>
<td>100 Ton</td>
<td></td>
<td>$225.00</td>
<td></td>
<td>$0.00</td>
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</table>

*Equipment*

<table>
<thead>
<tr>
<th>Equipment*</th>
<th>Rate/Day</th>
<th>Days</th>
<th>Subtotal</th>
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</thead>
<tbody>
<tr>
<td>300amp Diesel</td>
<td>$60.00</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Gen Pack</td>
<td>$135.00</td>
<td>1</td>
<td>$135.00</td>
</tr>
<tr>
<td>LN25 Wire Weld</td>
<td>$25.00</td>
<td></td>
<td>$0.00</td>
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<tr>
<td>Compressor</td>
<td>$25.00</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Forklift TH83</td>
<td>$119.00</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Forklift TH5208</td>
<td>$119.00</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Duct Jacks</td>
<td>$88.71</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Man lift</td>
<td>$100.00</td>
<td>4</td>
<td>$400.00</td>
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<tr>
<td>Scissor lift</td>
<td>$27.50</td>
<td></td>
<td>$0.00</td>
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</table>

**Manpower**

<table>
<thead>
<tr>
<th>Manpower</th>
<th>Rate/Hr</th>
<th>Hours</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervisor</td>
<td>$70.00</td>
<td>35</td>
<td>$2,450.00</td>
</tr>
<tr>
<td>Journeyman</td>
<td>$65.00</td>
<td>35</td>
<td>$4,550.00</td>
</tr>
<tr>
<td>Firewatch</td>
<td>$22.50</td>
<td>21</td>
<td>$472.50</td>
</tr>
<tr>
<td>Overtime</td>
<td>$25.00</td>
<td>14</td>
<td>$1,050.00</td>
</tr>
<tr>
<td>Firewatch Overtime</td>
<td>$11.25</td>
<td>14</td>
<td>$157.50</td>
</tr>
<tr>
<td>Perdiem</td>
<td>$12.00</td>
<td>35</td>
<td>$1,260.00</td>
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</tbody>
</table>

**Subtotal** $10,475.00

**Expendables** 10% $628.50

**Fuel** 6% $1,047.50

**Subtotal** $12,151.00

**OH/Profit** 15% $1,822.65

**Total** $13,973.65

*NOTE: The above listed rates for equipment are subject to review on a case by case basis due to minimum rental durations and costs in some instances.*

Reviewed By  
Chris Wilson  
09/02/2021

Total CAS Invoice $12,046  
Lyndon OH+p $2,204.6  
Total Lyndon Invoice $13,250
**EXTRA WORK ORDER**

**CAS Steel Erectors, LLC**
237 Duncan Hill Rd.
Hendersonville, NC 28792
828-697-8877
828-697-8888

**Date:** 10-12-20

**Authorization for payment and commencement of work**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Description of Material or Equipment</th>
<th>Unit Price</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>4 HRD Beam Lift</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Brief Description and Location of Work:**
- Lease on 1st floor of building
- Raise 2" fire watch
- Welder on south side middle building

**Total Material $**

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total HRS</th>
<th>Rate</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Hardin</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tim Castro</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Castro</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Hours to Date:** 12

**Work Approved as Complete**

**Signature**

**Title**

**Date**

**Supervisor:** D. Hardin

**Safety**

**Total Labor**

**Other Direct Costs**

**Total $**

---

This extra work order will/may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.

**REV DATE 25 OCT 2016**
Date: 4-13-20

To: Cas Steel
From: Cas Steel

Authorization for payment and commencement of work

Signature
Title

Brief Description and Location of Work: Complete slotting holes in jute, and Reinstalling, Removing sheet rock and plywood and 2 east side windows

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Description of Material or Equipment</th>
<th>Unit Price</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 lbs</td>
<td>60'</td>
<td>Removable Jute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 gage</td>
<td>40'</td>
<td>Studs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ft</td>
<td></td>
<td>Slotting Holes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Material $  

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total HRS</th>
<th>Rate</th>
<th>Extension</th>
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</thead>
<tbody>
<tr>
<td>D. Hardin</td>
<td>C30</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30</td>
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<tr>
<td>Tim Castor</td>
<td></td>
<td></td>
<td></td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>James Castor</td>
<td>C30</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Supervisor: D. Hardin

This extra work order will/may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.

REV DATE 25 OCT 2016
EXTRA WORK ORDER

Date: 10-16-20

Authorization for payment and commencement of work

Signature

To: __________

From: CAS Steel

Title __________ Date __________

Brief Description and Location of Work: Started slotting holes and raising lintels ¾ inch east end of Bldg.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Description Of Material or Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Description Of Material or Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

Total Material $__________

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total HRS</th>
<th>Rate</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Hardin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.5</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>D. Costa</td>
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<td></td>
<td></td>
<td></td>
<td>1.5</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>J. Castro</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.5</td>
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<td>R. Hardin</td>
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<td></td>
<td>7.5</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Hours to Date: 30

Work Approved as Complete Signature: [Signature] [Date]

Supervisor: D. Hardin

Safety

Total Labor

Other Directed Costs

TOTAL $__________

This extra work order will/may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.

REV DATE 25 OCT 2016
CAS Steel Erectors, LLC
237 Duncan Hill Rd.
Hendersonville, NC 28792
828-697-8877
828-697-8888

EXTRA WORK ORDER

Date: 10-22-20

Authorization for payment and commencement of work

To: __________________________
Signature ______________________

From: CAS Steel
Title __________________________ Date __________

Brief Description and Location of Work: Removing sheet rock away from brick lintel. Slotting holes in lintel.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Description Of Material or Equipment</th>
<th>Unit Price</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7</td>
<td>60' Boom Lift</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Material $________

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total HRS</th>
<th>Rate</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Hardin</td>
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<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Castro</td>
<td></td>
<td>7</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Jim Castro</td>
<td></td>
<td>7</td>
<td></td>
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<tr>
<td>Thadus Fort</td>
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<td>7</td>
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</table>

Hours to Date: 28

Work Approved as Complete Signature: __________________________
Title: __________________________ Date: __________
Signature __________________________ Date: __________
Incomplete: __________________________ Complete: __________________________

This extra work order will/may increase the duration allotted for the performance of our work. Please adjust the schedule accordingly.

Supervisor: D. Hardin

Safety __________________________
Total Labor ______________________
Other Directed Costs __________________________
TOTAL $________
EXTRA WORK ORDER

Date: 10-23-20

Authorization for payment and commencement of work

To: ___________________________ Signature ___________________________

From: CAS Steel Title ___________________________ Date __________________

Brief Description and Location of Work: Slotting holes in brick lintel west end of Bldg

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Description Of Material or Equipment</th>
<th>Unit Price</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>60 ft</td>
<td>60 Boom Lift</td>
<td></td>
<td></td>
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</tbody>
</table>

Total Material $ __________________

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
<th>Total HRS</th>
<th>Rate</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Hardin</td>
<td></td>
<td>6.5</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Tim Castro</td>
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<td>6.5</td>
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<tr>
<td>James Castro</td>
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<td>6.5</td>
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<tr>
<td>Padreus F.W.</td>
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</tbody>
</table>

| Hours to Date | 26 |
| Work Approved as Complete Signature | ___________________________ |
| Title | ___________________________ |
| Signature | ___________________________ |
| Date | __________________

This extra work order will/may increase the duration allotted for the performance of our work.

Please adjust the schedule accordingly.

Supervisor D. Hardin

Safety __________________
Total Labor __________________
Other Direct Costs __________________
TOTAL $ __________________

REV DATE 25 OCT 2016
CUMMING
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Ristanski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 119
Contract: Construction

Description of work to be performed: MEP Changes - Bulletin 28
This change is associated with the material and labor to lighting changes as per the Bulletin 28
The bulletin directs the removal of installation of four AE4 fixtures, conduits and wiring.
The credit for the fixtures is not included since they have been purchased and will be given as attic stock.
This bulletin is connected to the VE of the HVAC system. Added lagging to EF-1 and EF-2

Justification: B - Cede/Regulatory Agency Required Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): ($982.00) Owner Contingency Allow. Bal.
Time Extension Requested: ____________________________ Time Extension Recommended: ____________________________

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

(No) (Yes) (Circle One)

Decision needed by: July 12, 2021

(No) (Yes) (Circle One)

Approved:

Rick Holt, Cumming Corp.
Robert Feust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

(No) (Yes) (Circle One)

(No) (Yes) (Circle One)

(No) (Yes) (Circle One)
Date Submitted: April 15, 2021

To: Edmund Most  
City of Charleston

Re: International African American Muesum

Bulletin 28 Changes

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description: Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 28. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &amp;/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field cannot start without a signed change order.</th>
</tr>
</thead>
</table>

Reason: 

- [X] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [X] Design Issue

Pricing: 

- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: 

- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been completed
- [ ] Work Has commenced &/or is Ongoing

Submitted By: 

[Signature: Walter Dunn]  
Project Engineer  
Dated: 04/15/21

Contractor: TURNER BROWNSTONE

Requested Action: 

- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Authorized Action: 

- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By:  
Program Manager: CUMMING  
Dated: / /  

Approved By:  
Owner: City of Charleston  
Dated: / /  

($982) Amount Requested  
($982) Amount Approved
**Estimate Summary**

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<tr>
<th>Description</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>3.25%</td>
</tr>
<tr>
<td>Travel</td>
<td>0.04%</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>0.00%</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>0.0%</td>
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<tr>
<td>Subcontract</td>
<td>0.12%</td>
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<tr>
<td>CCP</td>
<td>2.50%</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td><strong>903</strong></td>
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</table>

**Trade Directs**

<table>
<thead>
<tr>
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<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRADE DIRECTS</td>
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</tr>
<tr>
<td>CONDITIONS (CGS)</td>
<td></td>
</tr>
<tr>
<td>MATERIALS (CGS)</td>
<td></td>
</tr>
<tr>
<td>EQUIPMENT (CGS)</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL TRADE DIRECTS</strong></td>
<td><strong>933.30</strong></td>
</tr>
<tr>
<td>CONDITIONS (CGS)</td>
<td></td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (CGS)</td>
<td></td>
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<tr>
<td>EQUIPMENT</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>933.00</strong></td>
</tr>
</tbody>
</table>

**Description of Work**

<table>
<thead>
<tr>
<th>Directs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DETAIL</td>
</tr>
</tbody>
</table>

**Cor No.**

119
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$2,669.00</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>$3,972.00</td>
<td>1</td>
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</tbody>
</table>

**Cor No.:** 119

International African American Museum
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
Bulletin #28

Delete installation of (4) AE4 fixtures, conduit, wiring.
Relative controls will become spares or circuit load will be reduced by (4) AE4 fixture loads.
No credit for light fixtures. They have been received and in storage since November 2020.
Includes credit for labor to install of AE4 fixtures.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 6 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_34>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; CONDUIT - EMT</td>
<td>-178</td>
<td>-300.86</td>
<td>-7.85</td>
</tr>
<tr>
<td>3/4&quot; CONN COMP STL - EMT</td>
<td>-8</td>
<td>-32.47</td>
<td>-1.00</td>
</tr>
<tr>
<td>3/4&quot; COUPLING COMP STL - EMT</td>
<td>-18</td>
<td>-84.30</td>
<td>-2.16</td>
</tr>
<tr>
<td>1/2 OR 3/4&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>-19</td>
<td>-38.34</td>
<td>-1.56</td>
</tr>
<tr>
<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>-4</td>
<td>-25.66</td>
<td>-0.37</td>
</tr>
<tr>
<td>#10 THHN SOLID BLACK</td>
<td>-783</td>
<td>-493.33</td>
<td>-5.48</td>
</tr>
<tr>
<td>#12/2C CABLE MC - STL ARMOR</td>
<td>-30</td>
<td>-25.83</td>
<td>-0.52</td>
</tr>
<tr>
<td>3/8&quot; CONN SADDLEGRIP DC FOR FLEX / AC-90 / MC</td>
<td>-8</td>
<td>-8.69</td>
<td>-0.48</td>
</tr>
<tr>
<td>WIRE CONN RED</td>
<td>-24</td>
<td>-5.45</td>
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</tr>
<tr>
<td>4x 1 1/2&quot; SQ BOX COMB KO</td>
<td>-4</td>
<td>-63.55</td>
<td>-1.40</td>
</tr>
<tr>
<td>4&quot; SQ BLANK COVER</td>
<td>-4</td>
<td>-23.63</td>
<td>-0.13</td>
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<tr>
<td>#8x 1/2 WAFAER HEAD SELF-TAP STUD SCREW - 12G</td>
<td>-8</td>
<td>-0.32</td>
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<tr>
<td>AE4</td>
<td>-4</td>
<td>-0.00</td>
<td>-0.75</td>
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<tr>
<td>LENSING</td>
<td>-8</td>
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<td>-0.40</td>
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<tr>
<td>Totals</td>
<td></td>
<td>-1,102.43</td>
<td>-29.86</td>
</tr>
</tbody>
</table>

Summary

General Materials                                   |     | -1,102.43  |
Material Tax (@ 9.000 %)                            |     | -99.22     |
Material Total                                      |     | -1,201.65  |
JOURNEYMAN (-29.86 Hrs @ $45.00)                    |     | -1,343.70  |

ORIGINAL
PROPOSED CHANGE ORDER

Summary (Cont'd)

<table>
<thead>
<tr>
<th>Description</th>
<th>Hours (Rate)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOREMAN</td>
<td>-4.48 Hrs @ $50.00</td>
<td>-224.00</td>
</tr>
<tr>
<td>PM&amp;S</td>
<td>-34.34 @ 0.00 @ $6.00 + 0.000 % + 0.000 % + 0.000 %</td>
<td>-206.04</td>
</tr>
<tr>
<td>VDC</td>
<td>-34.34 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %</td>
<td>-34.34</td>
</tr>
<tr>
<td>VEHICLES</td>
<td>-34.34 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %</td>
<td>-85.85</td>
</tr>
<tr>
<td>CONSUMABLES</td>
<td>-34.34 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %</td>
<td>-10.30</td>
</tr>
</tbody>
</table>

Subtotal               -3,105.88
Overhead ( @ 15.000 %) -465.88

Subtotal               -3,571.76

Final Amount           $-3,571.76

CONTRACTOR CERTIFICATION

Name: 
Date: 
Signature: 
I hereby certify that this quotation is complete and accurate based on the information provided.

CLIENT ACCEPTANCE

PCO #              34
Final Amount: $-3,571.76

Name: 
Date: 
Signature: 
I hereby accept this quotation and authorize the contractor to complete the above described work.

ORIGINAL
**Proposal Request Form**

**Name of Subcontractor:** Superior Mechanical Systems  
**Contract Number:**  
**Name of Project:** African American Museum  
**Date:** 2/6/2020  
**Description of Change:** 
Attach Additional Sheets as Necessary  

| SUB-CONTRACTOR |  |  |
|----------------|----------------|
| 1 Cost of Materials (including sales tax) | $ | - |
| 2 Labor | $ | - |
| 3 | SubTotal | $ | - |
| 4 Overhead & Profit (15% of Line 5) | $ | - |
| 5 | SubTotal | $ | - |
| 6 | Subcontractor | $2,400.00 |  |
| 7 Overhead & Profit (10% of Line 6) | $ | 240.00 |
| 8 Bond Increase (1.1%) | $ | 29.04 |
| 9 | Second-tier Subcontractor SubTotal | $2,669.04 |  |
| 10 | PROPOSAL TOTAL (Sum of Lines 7 and 10) | $ | 2,669.04 |

**Additional Contract Time Required** (Impact to Project Critical Path)  

**Submitted By:**  

**Contractor's Representative**

**Days:**  

**Date:**  

## Proposal Request Form

### Itemized Product Breakdown

<table>
<thead>
<tr>
<th>Products</th>
<th>Unit Cost</th>
<th>Quantity</th>
<th>Total</th>
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<tr>
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<tr>
<td>4</td>
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<td>5</td>
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<td>20</td>
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</table>

**SUBTOTAL** $125.93

**Sales Tax** $125.93

**SUBTOTAL** $125.93
**Proposal Request Form**

**Itemized Equipment Breakdown**

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<td>20</td>
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</table>

**SUBTOTAL** $ -
## Proposal Request Form

### Itemized Labor Breakdown

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<tr>
<td>2 Mechanic Helper</td>
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<tr>
<td>3 Senior Pipe Fitter</td>
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<tr>
<td>4 Pipe Fitter Helper</td>
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<td>$</td>
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<tr>
<td>5 Warehouse/Truck Driver</td>
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<td>$</td>
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<td>$</td>
</tr>
<tr>
<td>16 Labor Burden (31%)</td>
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<td>$</td>
</tr>
<tr>
<td>17</td>
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<tr>
<td><strong>Subtotal</strong></td>
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<td>$</td>
</tr>
</tbody>
</table>
## Proposal Request Form

### Itemized Subcontractors Listing

<table>
<thead>
<tr>
<th>Subcontractors</th>
<th>Activity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>A1 Insulation</td>
<td>Sound Lagging</td>
</tr>
</tbody>
</table>

**SUBTOTAL** $2,400.00
BULLETIN #028

PROJECT        IAAM
PROJECT NO.    15490
TO             Bobby Teachey

BULLETIN #028
DATE           January 12, 2021
FROM           Bernie Costantino

DESCRIPTION:
During the VE phase the HVAC system was revised from Heat pumps to VAVs. Heat pumps required enclosures to meet target NC criteria in the galleries. When the heat pumps were removed it was assumed that all enclosures could be removed but EF-1 and EF-2 still require enclosures. Adding lagging to EF-1 and EF-2 meets the target NC criteria for galleries.

During VE the display cases were deleted and TV monitors added in Lobby Niche. During the coordination of L2 it was noted the lights for this display case were not coordinated with metal panels shop drawings. After reviewing it was determined these would not be required with added TV screens. Provide credit for the deleted lights.

DRAWINGS:
MECHANICAL
M-402M-A Mechanical Level 02M HVAC Plan Part A
  o Added keynote 9 to EF-1 and EF-2
M-804 Mechanical Details Sheet 4
  o Added detail 8 – Exhaust Fan Unit Limp Mass Lagging Detail

ELECTRICAL


Each affected contractor is to provide detailed pricing for both labor and material. If the contractor is not affected by the scope of this change, the contractor shall indicate no costs. The contractor shall notify the Architect within 10 working days of any costs that are expected to be incurred. If no response is received within 10 working days, it will be assumed there is no effect to the contractor’s contract.

DISTRIBUTION:
Rick Davis
Bri’Shae Anderson
Walt Lewis
Edmund Most
Rick Holt
Robert Faust
Jonathan Roberts
Julie Cook
Bob Larrimer
To: Edmund V. Most  
From: Mike Risteski  
Date: 10/7/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 129 R3  
Contract: Construction

Description of work to be performed: Skylight Plate for Lighting (RFI 384)  
This change is associated with the labor for the installation of additional plates to the skylight system to support the lighting fixtures

A - Customer Requested Change  
B - Code/Regulatory Agency Required Change  
C - Errors and Omissions  
D - Replacing Unsuitable Soils  
E - Soils Related Change Other  
F - Unforeseen Conditions  
G - Time Related Change  
H - Liquidated Damages  
I - Value Engineering Change  
J - Exercising Pre-Priced Option (Allowance)  
K - Accounting Error  
(Indicate Reason for Change Proposal)

Justification: F - Unforeseen Conditions

Attachments:  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)  
- Cost Estimate (Expected to Exceed $10,000)  
- Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $3,314.00  
Time Extension Requested:  
Time Extension Recommended:  
Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:  

Decision needed by: October 7, 2021  
NO (YES) (Circle One)  
Mike Risteski, Cumming Corp.

Approved:  
(YES) (NO) (Circle One)  
Rick Holt, Cumming Corp.

(YES) (NO) (Circle One)  
Robert Faust, Cumming Corp.

(YES) (NO) (Circle One)  
Edmund V. Most, City of Charleston

(YES) (NO) (Circle One)  
Bernard Costantine, Moody Nolan

Robert Lawrimer
Date Submitted: October 5, 2021

To: Edmund Most  
   City of Charleston

Re: International African American Muesum
Skylight Plate Changes per RFI 384

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with RFI 384. Skylight plates changed from a smaller to a bigger size. New size was updated to 16" x 16". They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:  
- Owner Directive
- Code / Regulatory
- Unforeseen Condition  
- Design Issue

Pricing:  
- ROM Estimate of GR's & Insurances
- ROM Estimate for Entire PCO
- Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:  
- Evaluating Potential for Time Impact
- Evaluated - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)

- Work has been Completed
- Work Has Commenced &/or is Ongoing
- Work Authorization is Requested By:

Submitted By:  
Walter Lewis  
Project Engineer  
Dated 10/05/2021

Contractor:  
TURNER BROWNSTONE  
10/05/2021  
$3,314 Amount Requested

Reviewed By:  
Program Manager: CUMMING

Approved By:  
Owner: City of Charleston  
Dated

Amount Approved $3,314
**Estimate Total**

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<td>Performance and Payment Bond</td>
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<td>Builders Risk</td>
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**Subtotal Trade Directs**

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<tr>
<td>Conditions (GC5) Material (s) &amp; Equipment</td>
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<tr>
<td>General Requirements (GR5) &amp; General</td>
<td></td>
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<tr>
<td>Conditions (GC5) Self Performed Labor</td>
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<td>General Requirements (GR5) &amp; General</td>
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<tr>
<td>Description of Work</td>
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**Cor No.: 129**

General Summary of the Estimate

International African American Museum

Turner
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<th>Description</th>
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<tbody>
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<td>Additional Scope of Work</td>
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<td>$33,000</td>
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**TOTAL**

$33,000
Date Submitted: September 2, 2021

To: Edmund Most
City of Charleston

Re: International African American Museum
Skylight Plate Changes per RFI 384

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
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<tbody>
<tr>
<td>Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with RFI 384. Skylight plates changed from a smaller to a bigger size. New size was updated to 16&quot; x 16&quot;. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &amp;/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.</td>
</tr>
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<table>
<thead>
<tr>
<th>Reason:</th>
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<tr>
<td>Owner Directive</td>
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<td>Unforeseen Condition</td>
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<td>Design Issue</td>
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<tr>
<th>Pricing:</th>
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<tr>
<td>ROM Estimate of GR's &amp; Insurances</td>
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<td>ROM Estimate for Entire PCO</td>
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<tr>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
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<th>Time Impact:</th>
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<tr>
<td>Evaluating Potential for Time Impact</td>
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<tr>
<td>Evaluated - NO TIME IMPACT</td>
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<tr>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
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<td>Work Authorization is Requested By:</td>
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<tr>
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<tbody>
<tr>
<td>Contractor: TURNER BROWNSTONE</td>
</tr>
<tr>
<td>09/03/21</td>
</tr>
<tr>
<td>Walter Lewis Project Engineer</td>
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<tr>
<td>Dated</td>
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<tr>
<td>$4,713</td>
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<tbody>
<tr>
<td>Owner: City of Charleston</td>
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<td>Dated</td>
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<tr>
<td>$4,713</td>
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<tr>
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### Estimate

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<td>1.2</td>
<td>CONDITIONS (G&amp;S)</td>
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<td><strong>Subtotal</strong></td>
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**Grand Total**: $0.00000
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<td>$4,995.00</td>
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**Total:** $5,476.00

**Description:**

**Additional Scope of Work**

---

**General Requirements (G.R.) & General Conditions (G.C.)**

---

**Trade Directs**

---

**COR No.:** 129R1

**Turner International African American Museum**
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with RFI 384. Skylight plates changed from a smaller to a bigger size. New size was updated to 16" x 16". They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:
[ ] Owner Directive
[ ] Code / Regulatory
[ ] Unforeseen Condition [X] Design Issue

Pricing:
[ ] ROM Estimate of GR's & Insurances
[ ] ROM Estimate for Entire PCO
[ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
[ ] Evaluating Potential for Time Impact
[ ] Evaluated - NO TIME IMPACT
[ ] Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)
[ ] Work Has commenced 8/or is Ongoing
[ ] Work Authorization is Requested By:

Submitted By: Contractor: TURNER BROWNSTONE
Walter Lewis Project Engineer
07/20/2021
07/20/2021
$4,713
$5,953
Amount Requested

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston
Edmund Most

Requested Action:
[ ] Authorized to Proceed
[ ] Do Not Proceed or Price

Authorized Action:
[ ] Authorized to Proceed
[ ] Price Only
[ ] Do Not Proceed or Price

Amount Approved: $5,953 $4,713
**Estimate Total**

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<td>G &amp; G</td>
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**Subtotal Trade Directs**

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<tr>
<td>Trade Directs</td>
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<td>Conditions (G.C.) A General Requirements (G.R.) &amp; General Conditions (G.C.)</td>
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<td></td>
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<tr>
<td>Material (s) &amp; Equipment</td>
<td>$0</td>
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<tr>
<td>Self Performed Labor</td>
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<td></td>
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**General Summary of the Estimate**

International African American Museum

**Turner**

**COR No.: 129**

**Revised By:** Chris Wilson

08/27/2021

Total Trade Directs After Concessions $4,399

Total Trade Directs Before OH: $5,476.00
PROPOSED CHANGE ORDER

LYNDON STEEL COMPANY LLC
1947 Union Cross Road
Winston-Salem, NC 27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

TO:
Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209

Attention: Walt Lewis
Phone: 919-788-2024 FAX: -

PROJECT:
International African American Museum
Charleston, SC

Description:
RFI #384 Response Dated 7/22/20

NOCH#:
26

DESCRIPTION

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<tr>
<th></th>
<th>A/D</th>
<th>AMOUNT</th>
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<tbody>
<tr>
<td>Added cost due to receipt of RFI #384 response dated 7/22/20.</td>
<td></td>
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<tr>
<td>Added (8) 1/4&quot; plates for light support posts.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference LSC Drawing E15005.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>See attached Proposed Detailing Extras Forms for additional description of revision detailing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Also, attached find Email from CAS Steel for added erection cost.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plates are in GMP Refer to A-802 A-805-4 (Detail 4 &amp; 5) Only approved amounts</td>
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<tr>
<td>Materials</td>
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<td>Detailing</td>
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<td>Freight</td>
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<td>Bonding</td>
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<tr>
<td>TAX</td>
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<td>$27</td>
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GMP pricing included shop installed we had to shop fab ship to site and then install.

Materials
Shop Labor
Detailing
Freight
Erection - CAS Steel
Overhead & Profit
Bonding

This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.

Total This Change Order: $5,476

Un博览会: $4,258.5

3,068.50

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

Turner Const Signature: Date:
LSC Signature: Date: 09/03/20

LSC PM: DeWitt Friedermann Prepared By: Spencer Fleming

e-mail: DFriedermann@lyndonsteel.com

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.

If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
PROPOSED DETAILING EXTRAS

Sheet # 1 of 1

Job No. 9041

Job Name International African American Museum

Detailer Reference CO # AA

NOC# 26 (Contact PM or DC for number)

Source of Change: iaam-rfi_384-lyndon_skylight_plate_clarification-PCF-P.pdf

Added (8) post shop attached top and bottom steel plate for lighting fixture on top of skylight tube.

General Description of Change:

Added (8) post shop attached top and bottom steel plate for lighting fixture on top of skylight tube.

List of ADDED PIECE MARKS and/or Number of Added Members

at the Time of Revision

Added (2) post shop drawings.

List of REVISED PIECE MARKS & Status

Added (2) post shop drawings and revised (1) E drawing.

Total Detailing Hours this sheet

5.5

Total Checking Hours this sheet

1.5

Total Impact to Schedule, ALL sheets:

Total Hours this sheet

7

Detailing Coord. Review: __________________________

Grand Total Det and Ckg Hours ALL sheets 7

Project Manager Acceptance: ____________________________

(Signature) ____________________________ (Dated)

NOTE: The detailer is not to proceed with changes until this form is signed and returned.

For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

NOTE: The Detailer has the option of using their standard company form if all the above information is included.

Fax to: Detailer CC: PM, PC, NOC Estimator Original: BB
* External Email Address*

$2,500.00.

Best Regards:

Douglas Edwards  
Project Manager  
CAS Steel Erectors, LLC  
Office (828) 697-8877  
Fax (828) 697-8888  
Cell (828) 545-4228  
doug@cassteel.com

On Aug 28, 2020, at 8:18 AM, DeWitt Friedermann <DFriedermann@lyndonsteel.com> wrote:

<E15005.pdf>
Lyndon: Skylight Plate Clarification

TO: Bernard Costantino (Moody Nolan)  
    Julie Cook, AIA (Moody Nolan)  

FROM: Bri'Shae Anderson (Turner Construction (CAR))  
      4601 Park Road, Suite 601  
      Charlotte, North Carolina 28209

DATE INITIATED: 07/23/2020

LOCATION:

PROJECT STAGE:

SUB JOB:

COST IMPACT:

DRAWING NUMBER: 805-4

LINKED DRAWINGS:

RECEIVED FROM: DeWitt Friedermann (Lyndon Steel)

COPIES TO:
    Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), DeWitt Friedermann (Lyndon Steel), Rick Hiligendorf (Lyndon Steel), Jonathan Roberts (Gumming)

Question from Bri'Shae Anderson (Turner Construction (CAR)) at 02:54 PM on 07/23/2020

Please clarify welding requirements for 5.5 x 5.5 x 1/8" plate and color? Stich wled?

Are these located only where the lights take place?

Attachments:
A-805-4 _ SKYLIGHT - PARAPET DETAILS Rev.0 markup.pdf

Awaiting an Official Response

All Replies:

PCF-P: Please see attached detailed drawings to coordinate steel plates with lighting fixtures, junction boxes, conduits and added steel posts for skylight. Same drawings were issued on 07-22-2020 as part of Skylight SD response
To: Edmund V. Moot  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 132  
Contract: Construction  

Description of work to be performed: Structural Steel @ Pump House
This change is associated with the material and labor to install additional structural steel @ the pump house
This change was requested by the City. Original drawings didn't have any structural steel details.
It was determined that the pump house floor will need to be supported around the penetration for the new power feed.

Justification:  
A - Customer Requested Change

Attachments:  
JSA from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed): $8,883.00  
Owner Contingency Allow. Bal.
Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

(YES)  (NO)  (Circle One)
Mike Risteski, Cumming Corp.

(YES)  (NO)  (Circle One)
Rick Holt, Cumming Corp.

(YES)  (NO)  (Circle One)
Rollet Faust, Cumming Corp.

(YES)  (NO)  (Circle One)
Edmund V. Moot, CEO of Charleston

(YES)  (NO)  (Circle One)
Bernard Costantino

(YES)  (NO)  (Circle One)
Bernard Costantino, Moody Nolan
Date Submitted: June 17, 2021

To: Edmund Most  
    City of Charleston

Re: International African American Muesum  
    Structural Steel at the Pump House

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and layout Structural Steel at the Pumphouse. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:  
[ ] Owner Directive  
[ ] Code / Regulatory  
[ ] Unforeseen Condition  
[ ] Design Issue

Pricing:  
[ ] ROM Estimate of GR’s & Insurances  
[ ] ROM Estimate for Entire PCO  
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Time Impact:  
[ ] Evaluating Potential for Time Impact  
[ ] Evaluated - NO TIME IMPACT  
[ ] Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)

[ ] Work has been Completed  
[ ] Work Has commenced &/or is Ongoing

Submitted By: Walter Lewis  
Contractor: TURNER BROWNSTONE  
06/17/2021  
$8,883  
Dated

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

$8,883  
Dated
### Estimate Total

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<th>Quantity</th>
<th>Rate %</th>
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<td>Builders Risk</td>
<td>0.4%</td>
<td>0.0040</td>
<td>$68.63</td>
</tr>
<tr>
<td>SubTotal</td>
<td></td>
<td></td>
<td>$204.77</td>
</tr>
</tbody>
</table>

**Subtotal:** $801.71

### Trade Directs

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td>CONDITIONS (GC)(S) Material/Labor (PL)</td>
<td></td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (GC)(S) 8 &amp; GENERAL</td>
<td></td>
</tr>
<tr>
<td>SELF PERFORMED LABOR (PL)</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** $586.85

**COR No.:** 132

General Summary of Estimate
International African American Museum
<table>
<thead>
<tr>
<th>Description</th>
<th>Units</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier and Install Structural Steel at Pump House</td>
<td>1</td>
<td>$8,170.75</td>
<td>$8,170.75</td>
</tr>
</tbody>
</table>

**Direct Work Subtotal:**

$8,171

**General Requirements (GR's) & General Conditions (GC's):**

**COR No.:** 132

International African American Museum
INVOICE

INVOICE NUMBER
Change Order #2

DATE
05/27/21

BILL TO:
Turner Construction
wlewis@tcco.com
Walter Lewis

SHIP TO:
International African American Museum
Concord St and Inspection St
Charleston SC 29403

<table>
<thead>
<tr>
<th>Customer</th>
<th>Job</th>
<th>Purchase Order</th>
<th>Terms</th>
<th>Sales Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>38.89203</td>
<td>4700147880</td>
<td>Net 30 Days</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION
Strutural steel work under slab per instructions from City of Charleston

$8,170.75

CHECK POLICY: If your check is dishonored or returned for any reason, you agree to pay a service fee of $30, or any higher amount allowed by law, and we may electronically debit/draft your account for this fee.

Total This Invoice $8,170.75
This will also be a CO...guessing we need to look at the docs that I left on Linda's desk to see what the CO mark up is and then we create this one and the textura and the hours that Paul worked extra as three separate ones.

Lisa Phillips

Thursday, May 27, 2021 12:13 PM

Linda Looper; Bill Winters; Tracy Kuhn; Paul Sturgill

FW: [External] Question for You

S2.pdf

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Wednesday, May 26, 2021 5:54 PM
To: Lisa Phillips <lphillips@gregoryelectric.com>
Subject: FW: [External] Question for You

Lisa,

Here is the pricing for the steel changes.

Thanks

Walt

Walter Lewis  Project Manager
Turner Construction Company
Mobile: 704.936.6991
Email: wlewis@tcco.com

From: Craig Sherrill <csherrill@steelefab-inc.com>
Sent: Wednesday, May 26, 2021 9:14 AM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: RE: Question for You

Walt,

See below pricing. Let me know if this works and I will move forward to have material ready to install week of 6/7.

Also, see attached. Can you provide the missing dimension noted with red cloud? And do you need approval drawings, or can we skip that and just send field use drawing?

- Material (Delivered): $2,775
- Install: $4,830
- TOTAL: $7,105

Thanks,
Craig

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Friday, May 21, 2021 4:25 PM
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company  
Project: CP 1425  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 133  
Contract: Construction

Description of work to be performed:  
Bus Loop Added Scope  
This change is associated with the design and build of the bus loop next to the IAAM.  
The scope of the project involves the replacement of 500ft sidewalks and 95lf of granite curb installation.  
The demolition of the old sidewalks is also part of the scope.

Justification:  
A - Customer Requested Change

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed):  
$45,393.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by:  
7/12/2021

Approved:

Rick Holt, Cumming Corp  
Robert Faust, Cumming Corp  
Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan

(NO) (YES)  
(Circle One)  
(Circle One)  
(Circle One)
Date Submitted: **June 17, 2021**

To: **Edmund Most**  
**City of Charleston**

Re: **International African American Museum**  
**Bus Loop Added Scope**

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and layout the new Bus Loop. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &amp;/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
<th>Owner Directive</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR’s &amp; Insurances</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROM Estimate for Entire PCO</td>
<td></td>
</tr>
<tr>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluated - NO TIME IMPACT</td>
<td></td>
</tr>
<tr>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
<td></td>
</tr>
</tbody>
</table>

| Work Authorization is Requested By: |
|---|---|

Submitted By: **TURNER BROWNSTONE**  
06/17/2021  
$45,393  
Amount Requested

Contractor: **TURNER BROWNSTONE**  
06/17/2021  
$45,393  
Amount Requested

Requested Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Authorized Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Reviewed By: **Program Manager: CUMMING**

Approved By: **Owner: City of Charleston**

Edmund Most  
Dated  
$45,393  
Amount Approved
<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>%</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtotal</td>
<td>$411,754</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimate Total</td>
<td>$453,935</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overhead and Profit</td>
<td>$18,722</td>
<td>3.25%</td>
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<tr>
<td>Procure</td>
<td>$305,644</td>
<td>0.04%</td>
<td>Performance and Payment Bond</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>$330,732</td>
<td>0.21%</td>
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<tr>
<td>Subguard</td>
<td>$301,055</td>
<td>0.50%</td>
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<tr>
<td>CCP</td>
<td>$82,857</td>
<td>0.90%</td>
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</table>

**COR No.:** 133

General Summary of the Estimate
International African American Museum

**Turner**
<table>
<thead>
<tr>
<th>COR NO.</th>
<th>Divisions of Work</th>
<th>Rate</th>
<th>Unit</th>
<th>Subtotal</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>133</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Description**

**General Requirements (G.R.s) & General Conditions (G.C.s)**

**Trade Directs**

1. Installation of the bus loop
2. Design of the bus loop

**Additional Scope of Work**
Turner Construction Company

**AGREEMENT TO PROVIDE PROFESSIONAL SERVICES**

Issuing Office: **Carolinans**

Project Name: **International African American Museum**

Project Number: **190795**

The terms and conditions of the Form 380 Office REV 07-31-20 shall govern this Contract with the exception of those modifications listed below:

This Agreement ("Agreement") is made as of this 11th day of January 2021 by and between Forsberg Engineering & Surveying, Inc. hereinafter called ("Provider") with offices located at 1587 B Savannah Hwy Charleston SC 29407 and Turner Construction Company a NY Corporation with offices located at: 4601 Park Road - Suite 601 Charlotte, NC, 28209

Contact: **Mike Johnson**
Telephone: **(843) 571-2622**
Fax:

The services to be provided under this Agreement are for the following Project ("Project"): **International African American Museum**

Services of the Provider

Provider shall perform the following Services ("Services") in accordance with the terms of this Agreement and any applicable laws, codes, ordinances, rules or regulations: **Vendor to provide Bus Drop Off Design Services; see attached Additional Provisions for scope**:

Time of Performance

01/11/2021 - Start Date
04/30/2021 - Completion Date

Providers Compensation

Provider's compensation shall be **TWELVE THOUSAND THREE HUNDRED FIFTY Dollars, $12,350.00**

Insurance

Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Turner Construction Company, shall be in place and maintained until completion and final acceptance of the Work

1. WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY INSURANCE in accordance with laws of the State in which the Work is situated.

2. COMMERCIAL GENERAL LIABILITY INSURANCE INCLUDING COMPLETED OPERATIONS, CONTRACTUAL LIABILITY INSURANCE AGAINST THE LIABILITY ASSUMED HEREINABOVE, and including CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE if the Provider sublets to another all or any portion of the Work, with the following minimum limits:
   
   $2,000,000.00 / Per Occurrence
   $2,000,000.00 / General Aggregate

3. AUTOMOBILE LIABILITY INSURANCE covering all owned, non-owned and hired automobiles used in connection with the Work, with the following minimum limits:

   Bodily Injury (including death) and Property Damages **$1,000,000.00** Combined Single
Limit

4. PROFESSIONAL LIABILITY INSURANCE (E&O) for protection from claims arising out of the performance of any design or engineering services performed or furnished in connection with the Work caused by any negligent act error or omission for which Provider and/or the Provider's Architect(s) and/or Engineer(s) may become legally liable. Such professional liability insurance shall provide for coverage as follows:
   a. Limit of liability $3,000,000.00
   b. Deductible Amount $50,000.00

Turner Construction Company, The Turner Corporation, Owner and Turner Construction Company, Barringer Construction, LLC, Honeywell International, Inc., its members, Jones Lang LaSalle, their res shall be named as an additional insured under the policies of insurance included in items 2 and 3 above.

Indemnification
Names of entities to be indemnified under this agreement (refer to Terms and Conditions for full indemnification requirements and definition which shall govern this agreement):
Turner Construction Company and City of Charleston

Forsberg Engineering & Surveying, Inc. (PROVIDER) ACKNOWLEDGES THAT THE ACCOMPANYING BALANCE OF TERMS AND CONDITIONS PER THE Form 380 Office REV 07-31-20 ARE COMPLEMENTARY AND INTEGRAL TO THIS AGREEMENT TO PROVIDE PROFESSIONAL SERVICES.

Turner Construction Company
By: Tucker Abbott
Title: Procurement Manager

Forsberg Engineering & Surveying, Inc.
By: 
Title:

Service Provider’s Federal Employers Identification Number (FEIN). 57-0750802
Service Provider’s State Unemployment Ins. No.
Service Provider’s License No.
   (Insert License No., if any, for State or locality in which the Work is to be performed)

Service Provider’s State Sales Tax Registration No.
   (Insert State and Register No. for State in which the Work is to be performed)
AGREEMENT TO PROVIDE PROFESSIONAL SERVICES

Issuing Office
Project Name
Project Number

This Agreement ("Agreement") is made as of this ___ day of ___ by and between PSDS (See Professional Services Data Sheet for this Item and all other items marked PSDS) hereinafter called "Provider") with offices located at PSDS.

Telephone: PSDS  Fax: PSDS
Contact: PSDS
With offices located at PSDS and PSDS

The parties agree as follows:

ARTICLE 1. THE PROJECT
The services to be provided under this Agreement are for the following Project ("Project"): PSDS

ARTICLE 2. PROVIDER'S RESPONSIBILITY
Provider accepts the relationship of trust and confidence established between it and Contractor and agrees to furnish its best skill and judgment and to perform its Services in the most expeditious and economical manner consistent with the interests of Contractor.

ARTICLE 3. SERVICES OF THE PROVIDER
Provider shall perform the following Services ("Services") in accordance with the terms of this Agreement and any applicable laws, codes, ordinances, rules or regulations:

ARTICLE 4. TIME OF PERFORMANCE

ARTICLE 5. PROVIDER'S COMPENSATION

ARTICLE 6. MODIFICATION AND TERMINATION
This Agreement may be modified or amended only by written instrument signed by the parties hereto and Provider's compensation and time of performance of the Agreement shall be adjusted if they are materially affected by such modification of amendment.

Contractor may terminate the Agreement for its convenience at any time and without any penalty, upon seven (7) days' written notice to Provider, and Contractor shall only remain liable for those Fees earned and accrued in good faith under the Agreement for Services properly performed prior to the effective date of termination. Provider waives any claim for loss of anticipated profits or other damages in the event Contractor exercises this clause.

Provider may terminate this Agreement upon seven days' written notice if Contractor is in breach of any of its provisions or if the Project is suspended for 60 days or more.

Following termination by Contractor or Provider, Provider shall be reimbursed for all expenditures made in good faith in accordance with the terms of this Agreement that are unpaid at the time of termination.
ARTICLE 7. INSURANCE
Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Contractor shall be in place and maintained until completion and final acceptance of the Work

1. WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY INSURANCE in accordance with laws of the State in which the Work is situated.

2. COMMERCIAL GENERAL LIABILITY INSURANCE INCLUDING COMPLETED OPERATIONS, CONTRACTUAL LIABILITY INSURANCE AGAINST THE LIABILITY ASSUMED HEREINABOVE, and including CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE if the Provider sublets to another all or any portion of the Work, with the following minimum limits:

   $ \text{PSDS} \text{ per Occurrence}
   
   $ \text{PSDS} \text{ General Aggregate}

3. AUTOMOBILE LIABILITY INSURANCE covering all owned, non-owned and hired automobiles used in connection with the Work, with the following minimum limits:

   Bodily Injury (including death) and Property Damage $\text{PSDS}$ Combined Single Limit

4. PRACTICE (OFFICE) PROFESSIONAL LIABILITY INSURANCE (E&O) for protection from claims arising out of the performance of any design or engineering services performed or furnished in connection with the Work caused by any negligent act error or omission for which Provider and/or the Provider's Architect(s) and/or Engineer(s) may become legally liable. Such professional liability insurance shall provide for coverage as follows:

   a. Limit of liability $\text{PSDS} \text{ per Occurrence}$
   
   b. Deductible Amount $\text{PSDS} \text{ per Occurrence}$

   c. Provider agrees that he will maintain this Professional Liability coverage for 5 years after substantial completion of the Project will notify $\text{PSDS} \text{ of any changes in the policy in subsequent years and will ensure that the policy will not provide less limits or coverage than the current policy.}$

   d. Sixty (60) days prior written notice to Contractor of cancellation of such insurance or any material change with respect thereof.

Before commencing the Work the Provider shall furnish a certificate satisfactory to Contractor from each insurance company showing that the above insurance is in force, stating policy numbers, dates of expiration and limits of liability thereunder and further providing that should any of the described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Applicable endorsements shall be included with the Certificate of Insurance provided.

Such professional liability insurance shall be in a form and from a company acceptable to Contractor and policy shall be available for review by Contractor as requested $\text{PSDS}$ shall be named as an additional insured under the policies of insurance included in Items 2 and 3 above.
ARTICLE 8. INDEMNIFICATION
It is understood and agreed that Provider shall Hold Harmless PDS from all claims, losses, expenses and damages, including but not limited to attorney’s fees, arising out of or resulting from the performance of its Services.

ARTICLE 9. ARBITRATION
Any claims or controversy arising out of or related to this Agreement or the breach thereof shall be settled by arbitration in accordance with the rules then obtaining of the American Arbitration Association and judgment upon the award may be entered in any court having jurisdiction.

ARTICLE 10. ETHICS
Contractor has a longstanding reputation for honesty and integrity in its business dealings and for its corporate policies promoting lawful and ethical behavior. Contractor is committed to upholding that reputation and has adopted a Standard of Business Conduct Policy Statement which governs the actions of all of its employees. Pursuant to that Policy Statement, Contractor employees are prohibited from accepting bribes or kickbacks in any form and, further, are prohibited from accepting goods or services provided by a Provider for the personal benefit of the employee, his or her relatives, or any entity in which the employee or his or her relatives has a personal interest. This prohibition includes, but is not limited to; work performed on an employee’s residence and applies regardless of whether the beneficiary of the goods or services pays for them. Therefore, if the Provider offers or provides a bribe or kickback to any employee, or offers or provides goods or services to any employee, his or her relatives, or any entity in which the employee or his or her relatives has a financial interest, the Provider will be considered to be in material breach of this Agreement. Provider undertakes the commitment to advise Contractor of any action by any entity or person associated with the project that Provider believes violates any applicable law, rule or regulation. Provider’s violation of any of the foregoing shall be considered as Provider’s failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article 6 of this Agreement.

The provisions of this Article must be incorporated into any lower-tier agreement Provider enters into in connection with the performance of this Agreement.

ARTICLE 11. HARASSMENT
It is the goal of Contractor to promote a work environment at the Project that is free from harassment of any kind. Contractor has ZERO TOLERANCE for harassment, including harassment on the basis of race, sex, gender, gender identity, gender expression, transgender status, sexual orientation, pregnancy, childbirth and other pregnancy-related conditions, color, national origin, ancestry, age, religious creed, citizenship, marital status (including registered domestic partners), parental status, physical disability, mental disability, medical condition, genetic information, military or veteran status (including protected veteran status), or any other characteristic or status protected by law. Subcontractor agrees to be bound by the Policy Statement on Harassment (http://www.turnerconstruction.com/sub-contractors), and any violation or suspected violation of such policy by Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers shall be considered as Subcontractor’s failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article 6 of this Agreement. Subcontractor shall actively promote a harassment-free work environment among its officers, agents, servants, employees, subcontractors, and suppliers.

ARTICLE 12. U.S. GOVERNMENT PRIME CONTRACT
In the event that the General Contract under which this Agreement is being issued is a General Contract between Contractor and the United States Government or an agency thereof, additional Federal Acquisition Regulation ("FAR") and agency FAR supplemental provisions are applicable to this Agreement. Such FAR and agency FAR supplemental provisions are contained on the attached document entitled “Federal Supplement” and such provisions are hereby incorporated by reference herein as if set forth at length herein. Provider hereby ratifies and re-affirms its Subcontractor Certifications and Disclosures that Provider signed and submitted with its proposal submitted earlier to Contractor and such Certifications and Disclosures are hereby incorporated herein by reference as if set forth at length herein.
ARTICLE 13. MISCELLANEOUS PROVISIONS
All notices or other communication under this Agreement shall be deemed to have been given when received by the party to whom sent at the addresses set forth above.

Any such notice or communication which shall be mailed shall be sent first class postage prepaid return receipt requested.

The law in effect at the location of the Project shall govern this Agreement.

The status of the Provider shall be that of an independent Contractor.

In witness whereof the parties hereto have executed this Agreement as of the date first written above.

CONTRACTOR    PSDS
By:                PSDS
Title:             PSDS

PROVIDER:          PSDS
By:                PSDS
Title:             PSDS

Provider's Federal Employers Identification Number (FEIN)       PSDS
Provider's State Unemployment Ins. No.                        PSDS
(Insert State and Register No. for State in which the Work is to be performed)

Provider’s License No.                                        PSDS
(Insert License No., if any, for State or locality in which the Work is to be performed)

Provider's State Sales Tax Registration No.                    PSDS
Scope of Work

This Subcontract shall be identified as "Design Services for the Bus Dropoff Design".

Site Investigation
1. Bidders shall thoroughly review the soils investigation reports available to determine the conditions that may be expected whether visible or hidden. The bid shall be based on unclassified soils and unlimited responsibility for dealing with buried obstructions unless specified otherwise or the Bidder specifically lists the limits of the bid.
2. This Subcontractor shall take precautions to verify that there are no buried utilities or other obstructions in the way of drilling. This Subcontractor shall be responsible for any damages despite drilling where staked if there is any way he could have known that there was a potential conflict.

Protection of the Site
3. This Subcontractor will be responsible for any and all costs necessary for the complete repair of any damages to the existing structures or elements scheduled to remain that may result from the Work.
4. Notify Turner Brownstone immediately of any conflicts with the installation of the Work.

Specific Work Included
1. Preparation of partial topographic survey and utility locate.
   a. Survey underground utilities and additional grades to supplement current survey
2. Preparation of civil engineering services as follows:
   a. Site demolition plan
   b. Geometric site layout plans for rework of entrance to building
   c. Grading, drainage, and coordination with Dominion, CWS, AT&T existing utility plans
   d. Construction details for site work items
   e. Civil Specifications
3. Submittal to the following agencies
   a. SCDOT Encroachment permit
   b. City Engineering Permit for sidewalk work
   c. City Traffic & Transportation - sidewalk

Work Excluded
1. Board of Zoning Appeals submittals, SWPPP Inspections, agency submittals, wetlands, construction administration, TRC submittal, stormwater submittals, asbuilt surveys, traffic study, site lighting, geotechnical reports, construction layout, landscape architect.
Unit Pricing
The following unit prices shall apply for additions and deductions in scope. Unit Prices shall include all tax, engineering, bond fees, etc. for a complete cost of the work. Include overhead and profit in these prices. Indicate the range for which the unit is to be applied.

<table>
<thead>
<tr>
<th>Description</th>
<th>Add</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternates
It is understood and agreed that the following additions or deductions may be made to the Contract Price. No commitment for material or other costs related to these alternate prices can be made without Turner Brownstone’s written authorization. Alternate prices include overhead, profit, insurance, tax, engineering, small tools, safety, bond fees, and any other miscellaneous costs for a complete cost of work.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Pricing Summary
On the Bid Form under Base Bid, this Subcontractor shall split the total sum bid for this Bid Package into the following breakouts for accounting purposes only: [Distribute all general costs, overhead, and profit, proportionally then provide quantity and material cost information – install value is total less material value].

<table>
<thead>
<tr>
<th>Description</th>
<th>Total Cost</th>
</tr>
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<tbody>
<tr>
<td>Surveying</td>
<td>$2,100.00</td>
</tr>
<tr>
<td>Civil Design</td>
<td>$4,700.00</td>
</tr>
<tr>
<td>Submittals</td>
<td>$1,550.00</td>
</tr>
<tr>
<td></td>
<td><strong>Subtotal</strong> $8,350.00</td>
</tr>
<tr>
<td>Contingency</td>
<td>$4,000.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total Subcontract Amount</strong> $12,350.00</td>
</tr>
</tbody>
</table>
April 19, 2021
International African American Museum - IAAM

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>UOM</th>
<th>UNIT PRICE</th>
<th>NOTES</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIDEWALK INSTALLATION - CONCORD ST BUS STOP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concrete 4&quot; Broom finish 3000 psi</td>
<td>497.0</td>
<td>sf</td>
<td>$5.02</td>
<td>C501 - 1 &amp; 5, Broom finish [typical], sidewalk &amp; ramps. Excludes transformer pad [63 sf].</td>
<td>$2,494.94</td>
</tr>
<tr>
<td>ADA - Truncated 12x12 Elizabeth City Brick - Mortar Base</td>
<td>156.0</td>
<td>sf</td>
<td>$35.50</td>
<td></td>
<td>$5,538.00</td>
</tr>
<tr>
<td>GRANITE CURB INSTALLATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Granite Curb - Straight - Installed</td>
<td>95.0</td>
<td>If</td>
<td>$89.00</td>
<td>C501 - 2 &amp; 3 for setting levels per plan page C301</td>
<td>$8,455.00</td>
</tr>
<tr>
<td>Granite Curb - Radius- Installed</td>
<td>53.0</td>
<td>If</td>
<td>$123.00</td>
<td></td>
<td>$6,519.00</td>
</tr>
<tr>
<td>DEMOLITION - SIDEWALK &amp; CURB</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Concrete Demolition of Sidewalk &amp; Grading</td>
<td>1.0</td>
<td>ea</td>
<td>$6,397.00</td>
<td>C201 - Sidewalk and curbing removal at Concord St and Wharfsdie St corner.</td>
<td>$6,397.00</td>
</tr>
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**$29,403.94**

**BID SUMMARY**

<table>
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<tr>
<th>SERVICES</th>
<th>SALES TAX</th>
<th>TOTAL PRICE</th>
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</thead>
<tbody>
<tr>
<td>Sidewalk Installation - Concord St Bus Stop</td>
<td>$0.00</td>
<td>$8,032.94</td>
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<tr>
<td>Granite Curb Installation</td>
<td>$0.00</td>
<td>$14,974.00</td>
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<tr>
<td>Demolition - Sidewalk &amp; Curb</td>
<td>$0.00</td>
<td>$6,397.00</td>
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</tbody>
</table>

<p>| | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Sale</td>
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<tr>
<td>Sales Tax</td>
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</tr>
<tr>
<td>Total</td>
<td>$29,403.94</td>
<td></td>
</tr>
</tbody>
</table>

Client Signature: ____________________________ Date
To: Edmund V. Most  
From: Mike Ristakesi  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 136  
Contract: Construction

Description of work to be performed:  
Track Lights Additional Lenses
This change is associated with the materials for the additional lenses of the track lights
This change was requested during the submittal review. (IAA) Change

Justification:  
A - Customer Requested Change

Attachments:  
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  
X

Proposal Cost (not to exceed):  
$11,513.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
$11,513.00  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by:  
July 12, 2021

Mike Ristakesi, Cumming Corp.

Approved:

Rick Hall, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan
Date Submitted:  July 3, 2021

To:  Edmund Most
City of Charleston

Re:  International African American Museum

Track Head Lens Quantity Change per Submittal

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Per the Returned Submittal. 30% additional Tracked Head Lenses need to be ordered for turn over to IAAM.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By:  
Walter Lewis  Project Engineer  Dated  07/03/21  Contractor:  TURNER BROWNSTONE  07/03/21  $11,513  Amount Requested

Reviewed By:  
Program Manager:  CUMMING

Approved By:  
Owner:  City of Charleston  Dated  Approved  $11,513  Amount Approved
Cor No.: 136

General Summary of the Estimate
International African American Museum
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements (R.9) &amp; General Conditions (C.G.)</td>
<td>$10,990.00</td>
<td>L5</td>
<td>$10,990.00</td>
</tr>
</tbody>
</table>

**Trade Directs**

**COR No.**

International American Museum

**$10,990.00**

**$10,990.00**
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418
Telephone: 843.414.0700
Fax: 843.414.0704

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405
Contact: Walt Lewis
E-mail: wlewis@tcco.com

PCO #: 11
Date: 11/10/2020
Project Name: IAAM Museum
Project Number: IAAM Museum
Page Number: 1

Work Description

SCOPE OF WORK:
Per Lighting retuned submittal notes this price includes 30% additional atermate lenses.
TH track heads.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 6 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_11>.

Itemized Breakdown

Summary

<table>
<thead>
<tr>
<th>LIGHTING FIXTURES</th>
<th>Material Tax (@ 9.00 %)</th>
<th>8,448.00</th>
<th>760.32</th>
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<tbody>
<tr>
<td>Material Total</td>
<td></td>
<td></td>
<td>9,208.32</td>
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<tr>
<td>Subtotal</td>
<td>( @ 15.00 %)</td>
<td>9,208.32</td>
<td>1,381.25</td>
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<tr>
<td>Subtotal</td>
<td></td>
<td></td>
<td>10,589.57</td>
</tr>
<tr>
<td>Final Amount</td>
<td></td>
<td></td>
<td>$10,589.57</td>
</tr>
</tbody>
</table>

CLIENT ACCEPTANCE

PCO #: 11
Final Amount: $10,589.57

Name: ____________________________

Date: ____________________________

Signature: _______________________

Change Order #: __________________

ORIGINAL
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 137  
Contract: Construction  

Description of work to be performed: Heat Trace Added per RFI 434  
This change is associated with the materials and labor for installing additional heat trace cables for plumbing work.  
This change was included in the response of RFI 434.

A - Customer Requested Change  
B - Code/Regulatory Agency Required Change  
C - Errors and Omissions  
D - Replacing Unsuitable Suits  
E - Suits Related Change Other  
F - Unforeseen Conditions  
G - Time Related Change  
H - Liquidated Damages  
I - Value Engineering Change  
J - Exceeding Pre-Priced Option (Allowance)  
K - Accounting Error  

(Indicate Reason for Change Proposal)

Justification:  C - Errors and Omissions

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $5,827.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by:  July 12, 2021

(Circle One)  
Mike Risteski, Cumming Corp.

(Circle One)  
Rick Holt, Cumming Corp.

(Circle One)  
Robert Faust, Cumming Corp.

(Circle One)  
Edmund V. Most, City of Charleston

(Circle One)  
Bernard Costanzino

Bernard Costanzino, Moody Nolan
Date Submitted: July 3, 2021

To: Edmund Most
City of Charleston

Re: International African American Muesum

Added Heat Trace per RFI 434

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | Price to supply and install Power to the Heat Trace per RFI 434. |

Reason:
- [ ] Owner Directive
- [X] Unforeseen Condition
- [ ] Design Issue
- [ ] Code / Regulatory
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Evaluating Potential for Time Impact
- [ ] Work Has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] No Time Impact
- [ ] Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)

Pricing:
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Evaluating Potential for Time Impact
- [ ] Work Has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] No Time Impact
- [ ] Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)

Submitted By: Walter Lewis Project Engineer
07/03/21

Contractor: TURNER BROWNSTONE
07/03/21
$5,827 Amount Requested

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

/ / Dated

Approved By: Owner: City of Charleston

/ / Dated

$5,827 Amount Approved
### Estimate Totals

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Amount</th>
<th>%</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>$182.19</td>
<td>3.25%</td>
<td>@</td>
<td>$6.06</td>
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<tr>
<td>Procure</td>
<td>$241</td>
<td>@</td>
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<td></td>
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<td>Performance and Payment Bond</td>
<td>$399.24</td>
<td>6.0073%</td>
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<td>$24.24</td>
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<tr>
<td>Builders Risk</td>
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<td>Subcontract</td>
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<tr>
<td>CCP</td>
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<td></td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td></td>
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</table>

Total: $5,360

### Trade Directs

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Amount</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>General Requirements (CR’s) A General Conditions (GCS)</td>
<td>$50</td>
<td>@</td>
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</tr>
<tr>
<td>Material(s) &amp; Equipment</td>
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<td>@</td>
<td></td>
</tr>
<tr>
<td>Self-Performed Labor</td>
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<td>@</td>
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Total: $6,857

### Description of Work

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
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**Cor No:** 137

General Summary of the Estimate

International African American Museum
<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Subtotal</th>
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<tbody>
<tr>
<td>$5,360.00</td>
<td>1.5</td>
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<tr>
<td>Cost to supply power to the heat trace</td>
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</table>

**Additional Scope of Work**

<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Subtotal</th>
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</thead>
<tbody>
<tr>
<td>$5,360.00</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Turner**

**International African American Museum**

**Cor No.** 137
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
RFI #434 Plumbing Heat tracing (power only).

Includes:
Two (2) 120 volt, 20 amp circuits.
Emt conduit and #10 awg conductor homeruns from Panel AP-L2A, circuits #86, 88 as specified in RFI 434.
(2) 120 volt, 20 amp circuits breakers for Panel AP-L2A.

Excludes:
Furnishing or installing heat trace system equipment; heat trace, control or monitor devices, junction or power boxes.
Commissioning of start up of system.
Control wiring or terminations.
Warranty of heat trace system.

Clarifications:
This price is to bring two (2) circuits with single point connections to heat trace junction boxes provided by others.
ALL heat trace equipment and products installed by others.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 16 days from the date of receipt.
We request a time extension of 5 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_22 RFI 434>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; CONDUIT - EMT</td>
<td>269</td>
<td>454.66</td>
<td>13.45</td>
</tr>
<tr>
<td>3/4&quot; CONN COMP STL - EMT</td>
<td>4</td>
<td>16.23</td>
<td>0.56</td>
</tr>
<tr>
<td>3/4&quot; COUPLING COMP STL - EMT</td>
<td>27</td>
<td>126.45</td>
<td>8.10</td>
</tr>
<tr>
<td>1/2 OR 3/4&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>30</td>
<td>60.54</td>
<td>1.50</td>
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<tr>
<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>2</td>
<td>12.83</td>
<td>0.10</td>
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<tr>
<td>1/2&quot; FLEX - ALUMINUM</td>
<td>30</td>
<td>42.45</td>
<td>1.08</td>
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<tr>
<td>1/2&quot; CONN FLEX DC SQUEEZE STRAIGHT</td>
<td>4</td>
<td>5.89</td>
<td>0.43</td>
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<tr>
<td>#10 THHN BLACK</td>
<td>18</td>
<td>11.88</td>
<td>0.14</td>
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<tr>
<td>#10 THHN SOLID BLACK</td>
<td>1,183</td>
<td>745.35</td>
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<tr>
<td>WIRE CONN RED</td>
<td>12</td>
<td>2.72</td>
<td>0.30</td>
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</table>

ORIGINAL
### PROPOSED CHANGE ORDER

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x 1 1/2&quot; SQ BOX COMB KO</td>
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<td>63.55</td>
<td>1.20</td>
</tr>
<tr>
<td>4&quot; SQ BLANK COVER</td>
<td>4</td>
<td>23.63</td>
<td>0.32</td>
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<tr>
<td>#8x 1  P/I SELF-TAP SCREW</td>
<td>6</td>
<td>0.86</td>
<td>0.30</td>
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<tr>
<td>#8x 1/2 WAFER HEAD SELF-TAP STUD SCREW - 12G</td>
<td>4</td>
<td>0.16</td>
<td>0.20</td>
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<tr>
<td>20A 1P BREAKER BOLT-ON</td>
<td>2</td>
<td>38.00</td>
<td>0.68</td>
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<tr>
<td>#10/2C TERM</td>
<td>6</td>
<td>0.00</td>
<td>0.54</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>1,605</strong></td>
<td><strong>37.77</strong></td>
</tr>
</tbody>
</table>

#### Summary

- **General Materials**: 1,605.21
- **Material Tax** (@ 9.000 %): 144.47

**Material Total**: 1,749.68

- **JOURNEYMAN** (37.77 Hrs @ $45.00): 1,699.65
- **FOREMAN** (5.67 Hrs @ $50.00): 283.50
- **SAFETY** (1.32 Hrs @ $52.00): 68.64
- **PM&S** (44.76 @ 0.00 @ $6.00 + 0.00 % + 0.00 % + 0.00 %): 268.56
- **VDC** (44.76 @ 0.00 @ $1.00 + 0.00 % + 0.00 % + 0.00 %): 44.76
- **VEHICLES** (44.76 @ 0.00 @ $2.50 + 0.00 % + 0.00 % + 0.00 %): 111.90
- **HEALTH AND HYGEINE** (44.76 @ 0.00 @ $0.90 + 0.00 % + 0.00 % + 0.00 %): 44.76
- **CONSUMABLES** (44.76 @ 0.00 @ $0.30 + 0.00 % + 0.00 % + 0.00 %): 13.43
- **SCISSOR LIFT** (1.00 @ 0.75 @ $440.00 + 0.00 % + 0.00 % + 0.00 %): 330.00

**Subtotal**: 4,614.88

- **Markup** (@ 15.000 %): 692.23

**Subtotal**: 5,307.11

- **Adjustment #1 - BOND** (@ 1.000 %): 53.07

**Final Amount**: $5,360.18

### CONTRACTOR CERTIFICATION

- **Name**: 
- **Date**: 
- **Signature**: 

I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

- **PCO #**: 22
- **Final Amount**: $5,360.18

- **Name**: 
- **Date**: 
- **Signature**: 

I hereby accept this quotation and authorize the contractor to complete the above described work.

ORIGINAL
Moody Nolan
300 SPRUCE ST, STE 300,
COLUMBUS, OH 43215
Attention: Bernie Costantino

Subject: MEP | Heat Trace Circuiting for L1 Overhead Sanitary

Information Requested:
Per the attached plumbing riser diagram, the sanitary on L1 overhead required heat trace.

Please provide information regarding the circuiting required for this heat trace. Attached is the approved Div 22 heat trace information for reference.

Responses

Joel Ramos - Plumbing
See electrical response.

Sarah Aarons - Electrical
Refer to attached ASI-029 for heat trace power information.
<table>
<thead>
<tr>
<th>Circuit Description</th>
<th>Trip</th>
<th>Poles</th>
<th>B</th>
<th>A</th>
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<tbody>
<tr>
<td>CT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAIN CR</td>
<td>250</td>
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<tr>
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<tr>
<td>AC RATING:</td>
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<tr>
<td>WiRE:</td>
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<td></td>
<td></td>
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<tr>
<td>PHASE:</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOLTS:</td>
<td>120/208 Y/Δ</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Panel: AP-L2-1GB
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company  
Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 138  
Contract: Construction

Description of work to be performed: AE2 Light Fixture Change  
This change is associated with the materials of changing the original AE2 fixtures in the ceiling of the 1st Floor  
This change was necessary to keep the esthetically pleasing look of the ceiling and avoiding the installation of additional ceiling access panels.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $9,199.00  
Owner Contingency Allow. Bal.:  
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Approved:  

Decision needed by: July 12, 2021  

(YES) (NO)  
Mike Risteski, Cumming Corp.
Date Submitted: **July 3, 2021**

To: **Edmund Most**  
**City of Charleston**

Re: **International African American Muesum**  
Supply new AE2 Light Fixture

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Supply Alternate AE2 Light Fixture. This COR is Material only as Labor is included in GMP for installation already.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td></td>
<td><strong>X</strong> Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td></td>
<td>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
</tr>
<tr>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td></td>
<td>Work Authorization is Requested By:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Submitted By:</th>
<th>Contractor: <strong>TURNER BROWNSTONE</strong></th>
<th>07/03/2021</th>
<th>Requested Action:</th>
<th>9,199.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Lewis</td>
<td>Project Engineer</td>
<td>Amount Requested</td>
<td>Authorized to Proceed While Pricing</td>
<td>Price Only</td>
</tr>
<tr>
<td>Reviewed By:</td>
<td>Program Manager: <strong>CUMMING</strong></td>
<td></td>
<td>Authorized Action:</td>
<td>Do Not Proceed or Price</td>
</tr>
<tr>
<td>Owner: <strong>City of Charleston</strong></td>
<td>10,001</td>
<td>Authorized to Proceed While Pricing</td>
<td>Price Only</td>
<td>Do Not Proceed or Price</td>
</tr>
<tr>
<td>Approved By:</td>
<td>10,001</td>
<td>9,199.00</td>
<td></td>
<td>M.C.</td>
</tr>
<tr>
<td>Edmund Most</td>
<td>Amount Approved</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


## Estimate Total

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>$31,266</td>
<td>3.25%</td>
</tr>
<tr>
<td>Procure</td>
<td>$4,744</td>
<td>0.0450%</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
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<td>0.0732%</td>
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<tr>
<td>Builder's Risk</td>
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<td>0.084%</td>
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<tr>
<td>Subcontract</td>
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<td>0.1012%</td>
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<tr>
<td>CCP</td>
<td>$2,958</td>
<td>0.02950%</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>$9,199</strong></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trade Directs</strong></td>
<td></td>
</tr>
<tr>
<td>$9,199</td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td>General Requirements (GR) &amp; General Conditions (GC)</td>
</tr>
<tr>
<td>$0</td>
<td>Self-Performed Labor</td>
</tr>
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</table>

---

**COR NO.** 138

General Summary of the Estimate
International African American Museum

Turner
<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>

**GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)**

<table>
<thead>
<tr>
<th>COE NO.:</th>
<th>138</th>
</tr>
</thead>
</table>

International African American Museum
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
Rev1:

Alternate light fixture for AE2 on Level 1.

Remove (46) AE2 original light fixtures.
Install (46) new alternate AE2 light fixtures.

The original fixtures specified and approved by the design team were not code compliant or applicable for the installation. There was no available product data or information contained in the approved submittal that could have forecasted this issue prior to releasing light fixtures.
Watson received the incorrect fixtures and made an effort to make a code compliant installation, and with an acceptable installation but could not maintain a code compliant installation, or an acceptable final installation.

Attached is the submittal for the alternate fixture. Pending approval of light fixture and change order, and written directive to proceed.
No lead time available at time if this quote.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 12 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_46> <AE2 Altenate>.

Itemized Breakdown

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LIGHTING FIXTURES</td>
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<tr>
<td>Material Tax</td>
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<td>Subtotal</td>
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<tr>
<td>Adjustment #1-BOND</td>
<td>(@ 1.000 %) 91.08</td>
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<tr>
<td>Subtotal</td>
<td>9,107.93</td>
</tr>
</tbody>
</table>

ORIGINAL
## PROPOSED CHANGE ORDER

### Summary (Cont'd)

| Final Amount | $9,199.01 |

### CONTRACTOR CERTIFICATION

| Name:          |
|               |
| Date:          |
| Signature:     |
| I hereby certify that this quotation is complete and accurate based on the information provided. |

### CLIENT ACCEPTANCE

<table>
<thead>
<tr>
<th>PCO #</th>
<th>46</th>
</tr>
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<tbody>
<tr>
<td>Final Amount:</td>
<td>$9,199.01</td>
</tr>
</tbody>
</table>

| Name:          |
|               |
| Date:          |
| Signature:     |
| Change Order #:|
| I hereby accept this quotation and authorize the contractor to complete the above described work. |
To: Edmund V. Most  
From: Mike Ristekski  
Date: 7/12/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 139  
Contract: Construction

Description of work to be performed: DAS Antennas Added to Ceiling  
This change is associated with the labor and materials of adding additional 2 antennas to the ceiling. The reason for this change was to keep devices away from the acoustical ceiling. An antenna had to be moved from its original proposed location. The movement of the antenna created coverage issues which were resolved by adding 2 new antennas.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $8,757.00  
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved:

Mike Ristekski, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most  

Bernard Costantino

Bernard Costantino, Moody Nolan
Date Submitted: July 3, 2021

To: Edmund Most
City of Charleston

Re: International African American Muesum

Added DAS Equipment - Per Reflected Ceiling Approval and Submittal.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To Add additional equipment than required, Design team added these as to avoid ceilings per the reflected ceiling plan approval and shop drawing review.</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Reason:</th>
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<tbody>
<tr>
<td>Owner Directive</td>
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<tr>
<td>Code / Regulatory</td>
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<tr>
<td>Unforeseen Condition</td>
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<td>Design Issue</td>
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<table>
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<tr>
<th>Pricing:</th>
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<tr>
<td>ROM Estimate of GR's &amp; Insurances</td>
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<tr>
<td>ROM Estimate for Entire PCO</td>
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<tr>
<td>Lump Sum or Firm Fixed Unit Pricing</td>
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<tr>
<td>for Trade Contractors - See Detailed Estimates</td>
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<table>
<thead>
<tr>
<th>Time Impact:</th>
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<tr>
<td>Evaluating Potential for Time Impact</td>
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<td>Evaluated - NO TIME IMPACT</td>
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<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
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</table>

| Work has been Completed Work Has Commenced 8/or is Ongoing |

Submitted By: Walter Lewis, Project Engineer
07/03/21
Contractor: TURNER BROWNSTONE
$ 8,757
Amount Requested

Reviewed By: Program Manager: CUMMING

Authorized Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Approved By: Edmund Most
Owner: City of Charleston
$ 8,757
Amount Approved
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<td>6823.79</td>
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<tr>
<td>482</td>
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<td>2.50%</td>
<td>@</td>
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<tr>
<td>8.055</td>
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| Subtotal      | $8,055   |

**General Summary of the Estimate**

International African American Museum

**Cor No.:** 139
**DESCRIPTION**

To add two additional frames per approved Field Plan drawing plan Additional scope of work

**TRADE DIRECTS**

**GENERAL REQUIREMENTS (G.R.) A GENERAL CONDITIONS (G.C.)**

<table>
<thead>
<tr>
<th>COMMENTS</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>Rate</td>
<td>Units</td>
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**DETAIL ESTIMATE OF DIRECTS**

International African American Museum
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
DAS system additions.

Includes:
Two (2) additional antenna points per approved RCP plan.
Additional points are on Level 2.
Subcontractor quote attached.
Approved RCP for basis of proposal attached.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 6 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_50 RCP DAS>.

Itemized Breakdown

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<tr>
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<th>Total Mat.</th>
<th>Total Hrs.</th>
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<tbody>
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<td>378.24</td>
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<td>1&quot; CONN COMP STL - EMT</td>
<td>2</td>
<td>12.28</td>
<td>0.32</td>
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<td>1&quot; COUPLING COMP STL - EMT</td>
<td>16</td>
<td>120.29</td>
<td>5.60</td>
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<tr>
<td>1&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>17</td>
<td>41.01</td>
<td>1.02</td>
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<td>#8x 1/2 WAFER HEAD SELF-TAP STUD SCREW - 12G</td>
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Summary

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<tr>
<td>JOURNEYMAN</td>
<td>(15.73 Hrs @ $45.00)</td>
<td>707.85</td>
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<tr>
<td>FOREMAN</td>
<td>(2.36 Hrs @ $50.00)</td>
<td>118.00</td>
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<tr>
<td>SAFETY @ 3.5%</td>
<td>(0.55 Hrs @ $52.00)</td>
<td>28.60</td>
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<tr>
<td>PM&amp;S</td>
<td>(18.64 @ 0.00 @ $6.50 + 0.000 % + 0.000 % + 0.000 %)</td>
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<td>VDC</td>
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<td>VEHICLES</td>
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ORIGINAL
PROPOSED CHANGE ORDER

Summary (Cont'd)

<table>
<thead>
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<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Subtotal</td>
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<tr>
<td>Overhead (@ 10.000 %)</td>
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<tr>
<td>Subtotal</td>
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<tr>
<td>DAS Sub ($5,500.00 + 0.000 % + 0.000 % + 10.000 %)</td>
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</tr>
<tr>
<td>Subtotal</td>
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<tr>
<td>Final Amount</td>
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</table>

CONTRACTOR CERTIFICATION

Name: ____________________________
Date: ____________________________
Signature: ________________________

I hereby certify that this quotation is complete and accurate based on the information provided.

CLIENT ACCEPTANCE

PCO #: 50
Final Amount: $8,054.74

Name: ____________________________
Date: ____________________________
Signature: ________________________

Change Order #: ____________________

I hereby accept this quotation and authorize the contractor to complete the above described work.

ORIGINAL
April 15, 2021

**Proposal # 210-417650**

To: Watson Electric
Attn: Dale Winovich

Re: International African American Museum DAS System

DAS System:
  - Add 2 Antenna IAAM DAS

  **TOTAL**
  Total, including applicable tax................................................................. $ 5,500.00

**Scope of Work DAS System:**

**Scope:** We will provide and install 2 Added Antenna and associated design revisions to the new ERRC first responder radio system BDA DAS System in the listed location to be utilized by the local Fire Department per the documents supplied by Johnson Controls Fire Protection. All work to be done per NFPA 72 and 1221 tested per the requirement of the local fire marshal AHJ.

Our price includes: Providing installation labor and associated cable for the 2 added antennas and design revisions. Whenever possible all services are to be performed during normal working hours.

Our price Exclusions: 120VAC wiring, 2HR fire rating for BDA room or 2HR fire rated cable, tax, any and all raceways conduits J hooks, back boxes access doors of any kind, painting, patching, fire stopping or any type of cosmetic work, permits, lifts or scaffolding, site pre testing, ERRC system signal shall not accommodate any commercial wireless service provider coverage within the building DAS or BDA equipment or components, or UHF/VHF work or Cell Repeater of any kind, service agreement or items not described herein.

This project includes a one (1) year warranty on materials and/or workmanship.

**Continued on page 2**
THIS QUOTATION INCLUDES THE FOLLOWING:
Equipment as listed
SC Sales Tax
Freight (F.O.B. shipping point)
Shop Drawings
Technical installation support including programming
Permit
1 functional system certification test
1 AHJ test
1 Test with state officials
Close out documentation
One year standard warranty
Optional installation labor and wire

THIS QUOTATION DOES NOT INCLUDE THE FOLLOWING:
UL Certification or Monitoring
Raceway or standard electric boxes
120VAC power
Fire protection switches or gas solenoids
Phone lines
Remote station monitoring contract (available upon request)
Knox box
Cutting, drilling, patching, fire caulking or painting
Fire watch
No asbestos abatement is identified, expected or included in this contract. All policies and procedures referenced in the specification will be followed as required.
No Lead paint abatement is identified, expected or included in this contract. All policies and procedures referenced in the specification will be followed as required.
Cost for CAD files

Cordially,

Jay Wohlford
Electronic System Sales Representative
Johnson Controls
1141 Remount Rd. Suite 400
North Charleston, SC 29406
540-537-0341 cell
Cumming
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteksi
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 140
Contract: Construction

Description of work to be performed: TRK 2 Light Fixture
This change is associated with the materials of changing the TRK2 Fixtures.
The original fixture was only able to be installed in dry wall ceiling, therefore new fixture had to be ordered
for the drop ceiling. The change order has only the cost of the materials.

Justification: F - Unforeseen Conditions

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
X Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $9,522.00
Owner Contingency Allow. Bal. T
Time Extension Requested: T
Time Extension Recommended: 
Special Circumstances: 
Consequence of Rejection: 
Comments by Supervisor: 

Decision needed by: July 12, 2021
(Circle One):
- (NO)
- (YES)

Approved:

Rick Holl, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

Mike Risteksi, Cumming Corp.
Date Submitted:  July 3, 2021

To:  Edmund Most  
    City of Charleston

Re:  International African American Museum  
    TRK 2 - Light Fixture Change

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Changes to the light fixture. TRK-2 Light fixture does not work per specifications.</th>
</tr>
</thead>
</table>
| Reason:           | □ Owner Directive  
                   □ Code / Regulatory  
                   □ Unforeseen Condition  
                   □ Design Issue  
                   □ Lump Sum or Firm Fixed Unit Pricing  
                   □ ROM Estimate of GR’s & Insurances  
                   □ ROM Estimate for Entire PCO  
                   □ Evaluating Potential for Time Impact  
                   □ Evaluated - NO TIME IMPACT  
                   □ Work has been Completed  
                   □ Work Has Commenced &/or is Ongoing  
                   □ Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)  
                   □ Work Authorization is Requested By: |

Submitted By:  
Larry Lewis  
Dated:  07/03/21  

Contractor:  TUNER BROWNSTONE  
07/03/21  

$ 9,522  
Amount Requested

Requested Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Authorized Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Reviewed By:  Program Manager:  CUMMING  
Dated:  /  /

Approved By:  Owner:  City of Charleston  
Dated:  /  /

$ 9,522  
Amount Approved
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<th>Description</th>
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</tr>
<tr>
<td>Performance and Payment Bond</td>
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<tr>
<td>Builders Risk</td>
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<td>Subgrade</td>
<td>$0.012</td>
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<tr>
<td>CPAn</td>
<td>$0.98</td>
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<td>$8,759</td>
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</table>

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<th>Description of Work</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>General Requirements (G &amp; G) General Conditions (G &amp; G) Self Performed Labor</td>
</tr>
<tr>
<td>2</td>
<td>Material (G &amp; G) Equipment</td>
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</table>

General Summary of the Estimate

International African American Museum
<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
<th>DESCRIPTION</th>
</tr>
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<tr>
<td></td>
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**GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)**

<table>
<thead>
<tr>
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<th>RATE</th>
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**COR No:** 140

**International African American Museum**
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

**SCOPE OF WORK:**
TRK2 Drop Ceiling Alternative Fixture.
Quantity (36).
Price reflects fixture cost only.
$1200 credit to return original fixture type.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 2 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_54>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
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<tbody>
<tr>
<td>LIGHTING FIXTURES Material Tax</td>
<td>@ 9.000 %</td>
<td>$500.00</td>
<td>$578.65</td>
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<td>Material Tax</td>
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<tr>
<td>Material Total</td>
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<tr>
<td>FREIGHT</td>
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<td>$7,008.13</td>
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<td>Subtotal</td>
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<tr>
<td>Overhead</td>
<td>@ 10.000 %</td>
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<td>$500.00</td>
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<td>Markup</td>
<td>@ 5.000 %</td>
<td>$500.00</td>
<td>$412.95</td>
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<tr>
<td>Adjustment #1 BOND</td>
<td>@ 1.000 %</td>
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<td>$86.72</td>
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<tr>
<td>Subtotal</td>
<td></td>
<td></td>
<td>$8,758.61</td>
</tr>
<tr>
<td>Final Amount</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CONTRACTOR CERTIFICATION

Name: 
Date: 
Signature:  

I hereby certify that this quotation is complete and accurate based on the information provided.

ORIGINAL
# PROPOSED CHANGE ORDER

## CLIENT ACCEPTANCE

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>PCO #</td>
<td>54</td>
</tr>
<tr>
<td>Final Amount</td>
<td>$8,758.61</td>
</tr>
</tbody>
</table>

**Name:**

**Date:**

**Signature:**

**Change Order #:**

I hereby accept this quotation and authorize the contractor to complete the above described work.
Company: WATSON ELECTRICAL
Attention: DALE WINOVICH Fax
Email:
Project: IAAM
Date: 6/15/2021

Capital Electric standard terms apply. Prices subject to change without notice unless otherwise stated.

No federal, state, or municipal taxes included unless definitely specified.

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
<th>Description</th>
<th>Unit Price</th>
<th>Unit</th>
<th>Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRK2</td>
<td>36</td>
<td>REPLACEMENT 91361 UNIMOUNT RECESSED FLANGED TRACKING PLUS TAX and FREIGHT</td>
<td>211.93</td>
<td>ea</td>
<td>$7,629.48</td>
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<tr>
<td></td>
<td></td>
<td>CREDIT FOR RETURN OF EXISTING TRK2 TRACK LESS FREIGHT TO RETURN</td>
<td>-1200.00</td>
<td>lot</td>
<td>-$1,200.00</td>
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</tbody>
</table>
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 141
Contract: Construction

Description of work to be performed: Barrier Wall Foundations
This change is associated with the materials and labor of adding a footer to the barrier wall on the south side.
The original design intent was for the wall to serve as a bariacate for vehicles. During construction it was determined that larger footing and rebar were needed to add structural support to the wall.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000): Change Proposal Request from CMR with Detailed Backup
X

Proposal Cost (not to exceed): $31,402.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved:

Mike Risteski, Cumming Corp.

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantine, Moody Nolan

Robert Lammie
Date Submitted: July 3, 2021

To: Edmund Most
City of Charleston

Re: International African American Muesum
Barrier Wall Foundations

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>This change is to add the Barrier Wall Foundation to the project per the revised Barrier Walls details provided by the Design Team.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>□ ROM Estimate of GR's &amp; Insurances  □ ROM Estimate for Entire PCO  □ Evaluating Potential for Time Impact  □ Evaluated - NO TIME IMPACT  □ Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)  □ Work has been Completed  □ Work Has Commenced 8/or is Ongoing  □ Work Authorization is Requested By:</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>□ X</td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis  Project Engineer  Dated  07/03/21  $ 31,402  Amount Requested

Contractor: TURNER BROWNSTONE

Requested Action:
□ Authorized to Proceed While Pricing  □ Price Only  □ Do Not Proceed or Price

Authorized Action:
□ Authorized to Proceed While Pricing  □ Price Only  □ Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING  Dated

Approved By: Owner: City of Charleston  Dated  $ 31,402  Amount Approved
<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Rate</th>
<th>Amount</th>
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<td>3.25%</td>
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<td>0.0072</td>
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<td>0.012</td>
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<tr>
<td></td>
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<td>$2,894.00</td>
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<td>Trade Directs</td>
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</tr>
<tr>
<td>SD</td>
<td>General Requirements (G.R.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SD</td>
<td>Perform Labor</td>
<td></td>
<td></td>
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<tr>
<td>SD</td>
<td>Conditions (G.C.S.) Material/Equipment</td>
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General Summary of the Estimate
International African American Museum

COR No. 141

Turner
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Trade Directs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Requirements (GR) &amp; General Conditions (GC)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- The document contains a table with columns for Description, Rate, Units, and Total.
- The text is partially visible, with some parts obscured or cut off.
- The table appears to be a summary of costs or requirements for a project or task, with columns representing different categories and quantities.

**Additional Information:**
- The document contains a section titled "General Requirements (GR) & General Conditions (GC)," indicating compliance with certain industry or project standards.
- The table includes a row for "Trade Directs," suggesting a section related to trade-specific requirements or directives.

**References:**
- The document mentions "Cor No. 141," possibly indicating a specific project or case number.
- It is associated with "International African American Museum," hinting at a cultural or educational context.

**Overall Impression:**
- The document appears to be a formal or professional communication, possibly a report or proposal, dealing with organizational or project-related details.
July 02, 2021
International African American Museum - IAAM

Contract No. - 2646.13

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>UOM</th>
<th>UNIT PRICE</th>
<th>NOTES</th>
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<tr>
<td>FOOTERS ADDED TO W7 CONCRETE BASE</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Footer for W7 Concrete Base w Rebar</td>
<td>116.0</td>
<td>if</td>
<td>$249.00</td>
<td>Per S-401 / 11 Structural Detail</td>
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<tr>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6' width x 1' depth, #4 Rebar per detail.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Footer extends 3' on each end of W7.</td>
</tr>
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<tr>
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<td>$28,884.00</td>
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$28,884.00

BID SUMMARY

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<th>SALES TAX</th>
<th>TOTAL PRICE</th>
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<tr>
<td>Footers Added to W7 Concrete Base</td>
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<tr>
<td></td>
<td>$28,884.00</td>
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</tbody>
</table>

Client Signature: ___________________________ Date ___________________________
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 142
Contract: Construction

Description of work to be performed: Shaft Wall Changes
This change is associated with the materials and labor of installing a 3HR shaft wall in the mechanical/electrical rooms on all floors in the service stairs.
The original design called for concrete duct bank to encase all of the service conduits to the third floor.
Unfortunately, due to uncoordination during design of structural and electrical scopes, the additional concrete weight cannot be supported. Thus a shaft wall had to be installed to achieve the 3HR separation needed.
The credit for Watson Electric on the demolition of the concrete was used for the removal of the formed conduits, installing additional support on all floors and reframing a smaller section of 2 service conduits.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000) Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $22,018.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

(Circle One)

(Mike Risteski, Cumming Corp.)

Approved:

(Circle One)

(Rick Holt, Cumming Corp.)

(Circle One)

(Robert Faust, Cumming Corp.)

(Circle One)

(Emmund V. Most, City of Charleston)

(Circle One)

(Bernard Costantino, Moody Nolan)
Date Submitted: September 2, 2021

To: Edmund Most
   City of Charleston

Re: International African American Museum
   Shaft Wall Changes

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | To supply and install Drywall Shaftwall instead of the Concrete per the documents. See detail Page |
|-------------------|-------------------------------------------------------------------------------------------------
| Pricing:          | ☐ ROM Estimate of GR's & Insurances ☐ ROM Estimate for Entire PCO ☑ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates |
| Time Impact:      | ☑ Evaluating Potential for Time Impact ☐ Evaluated - NO TIME IMPACT ☐ Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis) |
|                   | ☐ Work has been Completed ☐ Work Has Commenced &/or is Ongoing ☐ Work Authorization is Requested By: |

Submitted By: Walter Lewis Project Engineer Dated 09/03/2021

Contractor: TURNER BROWNSTONE

Amount Requested $22,018

Requested Action:

Authorized to Proceed While Pricing ☐ Price Only ☐ Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing ☐ Price Only ☐ Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated / /

Approved By: Owner: City of Charleston

Dated / /

Amount Approved $22,018
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<td>SUBTOTAL 228.156</td>
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<th>SUBSTITUTE (CP)</th>
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<th>SUBTOTAL TRADE DIRECTS</th>
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<table>
<thead>
<tr>
<th></th>
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<th>TRADE DIRECTS</th>
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<table>
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<tr>
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<th>GENERAL REQUIREMENTS (G.R.)</th>
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<th>GENERAL REQUIREMENTS (G.R.)</th>
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<table>
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<td>42</td>
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**Cor No.:** 42 R1

International African American Museum
DIRECT WORK SUBTOTAL:

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
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<td>$29,392.00</td>
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</table>

Additional Scope of Work:

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
<td></td>
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<td>$29,392.00</td>
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</tbody>
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TRADE DIRECTS:

GENERAL REQUIREMENTS (G.R.s) & GENERAL CONDITIONS (G.C.s):

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>$29,392.00</td>
</tr>
</tbody>
</table>

COR No. 142 R2

International African American Museum
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To supply and install Drywall Shaftwall instead of the Concrete per the documents. See detail Page</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis  
Contractor: TURNER BROWNSTONE  
07/19/2021  
$22,018  
Amount Requested

Reviewed By: Program Manager: CUMMING  
Dated

Approved By: Owner: City of Charleston  
$30,610  
Amount Approved  
$22,018
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<th>Item</th>
<th>Description of Work</th>
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<td>MATERIALS &amp; EQUIPMENT</td>
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<td>GENERAL REQUIREMENTS (GR) &amp; GENERAL CONDITIONS (GC)</td>
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<tr>
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<td>SELF-PERFORMED LABOR &amp; MATERIALS &amp; EQUIPMENT</td>
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<td>GENERAL REQUIREMENTS (GR) &amp; GENERAL CONDITIONS (GC)</td>
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<tr>
<td></td>
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<td>TOTAL DIRECT WORK $20,280.64</td>
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</table>

**Estimate Total**

- $697,062
- $4,257
- $1,022
- $2,950
- $250
- $28

**Subtotal**

- $28,156

**Total Direct Work $20,280.64**
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<thead>
<tr>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1. Additional Scope of Work</td>
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<tr>
<td>2. Double Cover, No Foundry, New Add.</td>
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<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
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**General Requirements (G.R.) & General Conditions (G.C.)**

**Division of Work**

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<thead>
<tr>
<th>Description</th>
<th>Task Units</th>
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<td>Cor No.: 142 RI</td>
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**Turner**

International African American Museum
To: Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
Contact: Walt Lewis  

Project: International African American Museum  
14 Wharfside Street  
Charleston, SC  

Description: 3 hour shaftwall enclosures in the storage, pump, electric rooms. 5 floors of shaftwalls.

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
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**Base Rate 45.00 - All included**  
**Overtime 22.50 (Time and Half)**  
**Total Rate 67.50**  

**Total Labor** $23,827.50  
$15,750 $23,025.00  

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**Total Material** $4,530.64  
$20,280.64 $28,815.64  

**Subtotal for Detail** $28,358.14  

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**Total Miscellaneous Charges** -$0.14  

**Labor Total:** $23,827.50  
$15,750 $23,025.00  

**Material Total:** $4,530.64  
$20,280.64 $28,815.64  

**Misc. Total:** -$0.14  

**Sub Total:** $28,358.14  
$28,358.00  

**Mark Up:** $0.00 .00%  

**Total:** $28,358.00  
$20,280.64  

Joel Ofsthun  
Project Manager
BXUV.U415 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
See Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See Design Criteria and Allowable Variances

Design No. U415

December 22, 2020

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System A — 1 Hr.

![Diagram of a wall section with labeled components 1, 2, 3, and 4, and a horizontal section line.][Diagram]
1. **Floor, Side and Ceiling Runners** — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "F" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs** — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).
2A. Steel Studs — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. Furring Channels — (Optional, Not Shown) — For use with single or double layer systems, Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type 5 or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. Furring Channels — For use with System 1 - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
   a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.
   b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
   a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.
   b. Steel Framing Members* — Used to attach furring channels (Item 2Ed) to studs. Clips spaced 24 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDIO BUILDING SYSTEMS — RESILMount Sound Isolation Clips - Type A237R

2F. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
   a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.
   b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

2G. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
   a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.
b. **Steel Framing Members** — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

**REGUPOL AMERICA** — Type SonusClip

2H. **Steel Framing Members** — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (items 4A-4D), or cementitious backer units (item 7).

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in item 4.

b. **Steel Framing Members** — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

**KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip

2I. **Steel Framing Members** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (items 4A-4D), or cementitious backer units (item 7).

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in item b. Gypsum board installed vertically only and attached to furring channels as described in item 4.

b. **Steel Framing Members** — Used to attach furring channels (Item 2Ia) to studs (item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

**CLARKDIETRICH BUILDING SYSTEMS** — Type ClarkDietrich Sound Clip

3. **Gypsum Board** — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in “H” portion of “C-H” studs or the gap between the two 3/4 in. legs of the “E” studs. Free edge of end panels attached to long leg of vertical. “J” - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws at the 22 in. dimension at the top and bottom of the strips.

**CGC INC** — Type SLX

**UNITED STATES GYPSUM CO** — Type SLX

**USG BORAL DRYWALL SFZ LLC** — Type SLX

**USG MEXICO S A DE C V** — Type SLX

4. **Gypsum Board** —

**System A — 1 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

**CGC INC** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULI, UX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULI, UX, WRC, WRX, USGX,
System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in, thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing,


THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX


USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX


**System F — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System G — 3 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

**System H — 3 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel
screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULUX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULUX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in, thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine drillr) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum
4D. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* —

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m³

THERMAFIBER INC — Type SAFB, SAFB FF

7. Cementitious Backer Units* — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO — Type DCB

8. Laminating Adhesive* — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (item 6) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
10A. Lead Discs — (Not Shown, for use with item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. Lead Batten Strips — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. Lead Tabs — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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EMERGENCY ELECTRICAL ROOM E309

1/4" = 1'-0"
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U415
December 22, 2020

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System A — 1 Hr.

![Diagram of fire resistance assembly](image-url)
1. **Floor, Side and Ceiling Runners** — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs** — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).
2A. **Steel Studs** — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in, less than floor to ceiling heights.

2B. **Furring Channels** — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in, long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels** — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

   a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in, or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

   b. **Steel Framing Members** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips, RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

   PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. **Steel Framing Members** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

   a. **Furring Channels** — Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

   b. **Steel Framing Members** — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

   STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

   a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

   b. **Steel Framing Members** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A ). Clips spaced max. 24 in. OC., GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

   PLITEQ INC — Type GENIECLIP

2G. **Steel Framing Members** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

   a. **Furring Channels** — Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.
b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

**REGUPOL AMERICA — Type SonusClip**

2H. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

**KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip**

2I. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

**CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip**

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

**CGC INC — Type SLX**

**UNITED STATES GYPSUM CO — Type SLX**

**USG BORAL DRYWALL SFZ LLC — Type SLX**

**USG MEXICO S A DE C V — Type SLX**

4. **Gypsum Board* —**

**System A — 1 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing.

**CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX**

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX**

**UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.
USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System B — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Vertical joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in, Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in, Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System C — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per item 6.

CGC INC — Types IP-X3 or ULTRACODE

**UNITED STATES GYPSUM CO** — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

**System D — 2 Hr**

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per item 7 and min 1-1/2 in. thick mineral wool batts per item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**System E — 2 Hr**
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.


**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.

**USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX


### System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

**CGC INC** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Types C and SCX

**UNITED STATES GYPSUM CO** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.

**USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX

**USG MEXICO S A DE C V** — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

### System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

**CGC INC** — Types C, IP-X2, IPC-AR, ULX, WRC

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Type C

**UNITED STATES GYPSUM CO** — Types C, IP-X2, IPC-AR, ULX, WRC

**USG BORAL DRYWALL SFZ LLC** — Type C

**USG MEXICO S A DE C V** — Types C, IP-X2, IPC-AR, WRC

### System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel
screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULULX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULULX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine drillier) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum
4D. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade “C”.

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — (Not Shown)

**Systems A, B, C, E, F, G, H, I**

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* —

**Systems A, B, E, F, G, H, I**

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

**Systems C & D**

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners,

ROCKWOOL — Type AF8, min. density 1.8 pcf / 28.8 kg/m³

THERMAFIBER INC — Type SAF8, SAF8 FF

7. Cementitious Backer Units* — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long. Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO — Type DCB

8. Laminating Adhesive* — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade “C”. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades “B, C or D”. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade “C”.
10A. **Lead Discs** — (Not Shown, for use with item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips** — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs** — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2020-12-22

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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**CUMMING**

**Change Order Proposal Review Form**

To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company

**Project:** CP 1425 International African American Museum  
**Proposal No.:** Change Order Request No. 145  
**Contract:** Construction

| Description of work to be performed: | Wall Exhibit Extension  
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<tbody>
<tr>
<td>This change is associated with the materials and labor of extending the Exhibit wall in the East end of the building. In the original design the exhibit wall were always the same dimension. Exhibit designer had requested only one wall to be reduced in size. Unfortunately the bulletin issued mirrored the reduction to both walls.</td>
<td></td>
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**Justification:**  
| C - Economic and Operational  
| (Indicate Reason for Change Proposal) |

**Attachments:**  
| J&A from Project Manager |
| Independent Cost Estimate |
| Pre-Negotiation Position (PNP) |

| Cost Estimate (Expected to Exceed $10,000) |
| Change Proposal Request from CMR with Detailed Backup |

| Proposal Cost (not to exceed): | $5,927.00 |

**Time Extension Requested:**  
| Time Extension Recommended: |

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

---

**Decision needed by:** July 12, 2021  
**(NO) (YES) (Circle One)**  
Mike Risteski, CUMMING Corp.

**Approved:**  
- **(NO) (YES) (Circle One)** Rick Holt, CUMMING Corp.
- **(NO) (YES) (Circle One)** Robert Faust, CUMMING Corp.
- **(NO) (YES) (Circle One)** Edmund V. Most, City of Charleston
- **(NO) (YES) (Circle One)** Bernard Costantine, Moody Nolan
COR #: 145

TURNER BROWNSTONE
14 Wharfside Street
Charleston, SC

Re: International African American Museum

Extend Exhibit Wall for Exhibit

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

This COR is for the Added Length of wall per Director of IAAM and Cumming

Reason:
- Owner Directive
- Code / Regulatory
- Unforeseen Condition
- Design Issue

Pricing:
- ROM Estimate of GR's & Insurances
- ROM Estimate for Entire PCO
- Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
- Evaluating Potential for Time Impact
- Evaluated - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- Work Has Commenced &/or is Ongoing
- Work Authorization is Requested By:

Submitted By:

Contractor: TURNER BROWNSTONE
07/05/21
$5,927

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

Dated
$5,927

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**Cor No.: 145**

General Summary of the Estimate
International African American Museum
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**Note:** Additional scope of work

**TRADE DIRECTS**

**GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)**

**COR NO.** 145

**International African American Museum**
REQUEST FOR CHANGE ORDER

Ref.#   COR-0071
GC #
Date    Jun 18, 2021
Job #   19-0998

To:    Turner Construction
5300 Virginia Way
Brentwood, TN 37027
Phone: (615)231-6300
Contact: Walt Lewis

Project:    International African American Museum
14 Wharfside Street
Charleston, SC

Description:  Wall extension- frame, plywood, rock, corner bead and tape

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Subtotal for Detail: **$3,473.20**

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Joel Ofsthun
Project Manager
Wrong.

No Cost to Owner - Installed
Hi Walt,

I just received direction that we have to get the walls in the exact dimensions as specified by the pdf. Please proceed with the work on both walls.

**MIKE RISTESKI, PMP**
Project Manager

**CUMMING**
Building Value Through Expertise

mrísteski@ccorpusa.com
P: +1 (843) 203-2904
C: +1 (843) 666-4751
3820 Faber Place Drive, Suite 600,
North Charleston, SC 29405
ccorpusa.com

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CUMMING
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 146
Contract: Construction

Description of work to be performed:

Additional backflow preventor rotation

This change is associated with the materials and labor of rotating the backflow preventor 90 degrees.
The original contract documents did not contain the new backflow preventor.
The scope was contracted outside the GMP; however, the rotation of the backflow preventor was not coordinated with the landscape design in the GMP.

Justification:

(Indicate Reason for Change Proposal)

Attachments:

J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000):

Change Proposal Request from CHRI with Detailed Backup

Proposal Cost (not to exceed): $14,323.25
Owner Contingency Allow. Bal.
Time Extension Requested:
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by:  August 27, 2021

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan
**GULF STREAM CONSTRUCTION**

1983 Technology Drive • Charleston, SC 29492  
(843) 572-4363 • Fax (843) 572-9609  
[www.gulfstreamconstruction.com](http://www.gulfstreamconstruction.com)

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<tr>
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<td>4601 Park Road, Suite 601</td>
</tr>
<tr>
<td></td>
<td>Charlotte, NC 28209</td>
</tr>
<tr>
<td>Contact:</td>
<td>Bobby Teachey</td>
</tr>
<tr>
<td>Phone:</td>
<td>(704) 319-4854</td>
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<tr>
<td>Project Name:</td>
<td>IAAM - COR30 Backflow Preventer Relocation</td>
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**Total Bid Price:** $14,323.25

**Notes:**
- See attached backup.
- O&P to be calculated on Subcontractor price w/o their O&P  
- 2nd tier Subs O&P is 10%

---

**ACCEPTED:**

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: __________________________  Date of Acceptance: __________

**CONFIRMED:**

Gulf Stream Construction Company Inc

Authorized Signature: __________________________  Estimator: Ken Allen

(843) 409-5914  kallen@gulfstreamconstruction.com

6/28/2021 4:31:06 PM
June 28, 2021

To: Gulf Stream Construction  
   Attn: Harmon Todd  
   Via email

Re: Mobilization to rotate CMC dock backflow

Chandler Construction Services, Inc. has prepared a change order proposal for work not shown in plans or part of original scope of work. Additional work includes: additional mobilization of labor & equipment to rotate 4” dia. backflow preventor 90 degrees as directed via email date/time stamped 6/28/21 @ 9:26AM. Chandler is requesting the following:

Additional mobilization (TBD) $4,600.00
Hydro-excavate or hand dig around buried facilities and install 90 degree MJ fittings plus piping $7,845.00

TOTAL ADD FOR CHANGE ORDER REQUEST-11 $12,445.00

Chandler Construction Services, Inc.

John Cecil, Ext 206

The content of this proposal is the confidential property and intellectual property of Chandler Construction Services, Inc. and shall not be copied, modified, retransmitted or used for any purpose other than the acquisition of services with Chandler Construction Services, Inc.
CUMMING
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 147A
Contract: Construction

Description of work to be performed: Palms to 4" Live Oaks on South Edge of Property
This change is associated with the materials of replacing the palm trees to live oaks on the south edge of the property. This change was requested by the owner.

Justification: A - Customer Requested Change

Attachments:
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): ($7,955.00) Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most City of Charleston
Bernard Costantino
Bernard Costantino, Moody Nolan
Date Submitted: July 5, 2021

To: Edmund Most
   City of Charleston

Re: International African American Muesum
   Palm Trees - Change to Oaks

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | This COR changes Palm Trees to 4" Oak Trees |

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>X Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced 8/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis Project Engineer 07/05/21 $ (7,955) Amount Requested

Contractor: TURNER BROWNSTONE

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Approved By: Owner: City of Charleston

Dated

$ (7,955) Amount Approved
<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Trade Directs</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GRR), 4 GENERAL CONDITIONS (GC), SELF PERFORMED LABOR</td>
<td>$0</td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (GRR), 4 GENERAL CONDITIONS (GC), MATERIAL(S) &amp; EQUIPMENT</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Cor No:** 147A

General Summary of the Estimate

International African American Museum
Date Submitted: July 5, 2021

To: Edmund Most  
City of Charleston

Re: International African American Muesum  
Palm Trees - Change to Oaks

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>This COR changes Palm Trees to 6&quot; Oak Trees</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
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</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</table>

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<tr>
<th>Time Impact:</th>
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<td></td>
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<td>Work Authorization is Requested By:</td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis  
Project Engineer  
07/05/21  
Dated

Contractor: TURNER BROWNSTONE

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

07/05/21  
Dated

$ 8,461  
Amount Requested

$ 8,461  
Amount Approved
<table>
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<tr>
<th>Task</th>
<th>Estimate</th>
<th>Total</th>
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<tr>
<td>Direct Labor</td>
<td>$264,55</td>
<td>$264,55</td>
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<tr>
<td>Materials</td>
<td>$3,30</td>
<td>$3,30</td>
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<tr>
<td>General Requirements (GR) &amp; General</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conditions (GCC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self Performed Labor</td>
<td></td>
<td></td>
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<tr>
<td>Estimate of Directs</td>
<td></td>
<td></td>
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<tr>
<td>#148B</td>
<td></td>
<td></td>
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<tr>
<td>COR NO:</td>
<td></td>
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</tr>
<tr>
<td>General Summary of the Estimate</td>
<td></td>
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<tr>
<td>International African American Museum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>---------------</td>
<td></td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (G.R.) &amp; GENERAL CONDITIONS (G.C.)</td>
<td></td>
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<th>TRADE DIRECTS</th>
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</table>

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (G.R.) &amp; GENERAL CONDITIONS (G.C.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Units</th>
<th>Total</th>
<th>COR No.</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>147B</td>
</tr>
</tbody>
</table>

International African American Museum
### OPTION 1 - Sub 4 Live Oaks 4" for 3 Majule Palms

<table>
<thead>
<tr>
<th>Item</th>
<th>Spec</th>
<th>QTY</th>
<th>Price</th>
<th>Total</th>
<th>Notes/Subs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Live Oaks</td>
<td>4&quot;</td>
<td>4</td>
<td>$1,375.00</td>
<td>$5,500.00</td>
<td></td>
</tr>
<tr>
<td>Credit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Majule Palms</td>
<td>25'</td>
<td>3</td>
<td>($4,272.50)</td>
<td>($12,817.50)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td>($7,317.50)</td>
<td></td>
</tr>
</tbody>
</table>

### OPTION 2 - Sub 10 Live Oaks 6" for 3 Majule Palms and 6 Live Oaks 4"

<table>
<thead>
<tr>
<th>Item</th>
<th>Spec</th>
<th>QTY</th>
<th>Price</th>
<th>Total</th>
<th>Notes/Subs</th>
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</thead>
<tbody>
<tr>
<td>Live Oaks</td>
<td>6&quot;</td>
<td>10</td>
<td>$2,750.00</td>
<td>$27,500.00</td>
<td></td>
</tr>
<tr>
<td>Credit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Majule Palms</td>
<td>25'</td>
<td>3</td>
<td>($4,272.50)</td>
<td>($12,817.50)</td>
<td></td>
</tr>
<tr>
<td>Live Oaks</td>
<td>4&quot;</td>
<td>6</td>
<td>($1,150.00)</td>
<td>($6,900.00)</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td>$7,782.50</td>
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</table>
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 international African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 14BR1
Contract: Construction

Description of work to be performed: Boiler Secondary Feed
This change is associated with the materials and labor of installing a secondary feed to the boiler
The original plans show one feed. Equipment required two feeds.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PMP)

Proposal Cost (not to exceed): $3,802.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended: 

Special Circumstances: 

Consequence of Rejection: 

Comments by Supervisor: 

Decision needed by: July 12, 2021

Approved:

[Signatures]

[Note: The document contains signatures from Edmund V. Most, Mike Risteski, Bernard Costantino, and Moody Nolan.]
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To Provide an additional Feeder for the boiler</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
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<td>Evaluating Potential for Time Impact</td>
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<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis  Project Engineer  07/19/2021  $ 3,802  Amount Requested

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston  $ 3,802  Amount Approved
<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
<th>%</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>$3,802</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overhead and Profit</td>
<td>$1,386</td>
<td>32.5%</td>
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</tr>
<tr>
<td>Procure</td>
<td>$1,157</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>$299.02</td>
<td>0.00722%</td>
<td></td>
</tr>
<tr>
<td>Builder's Risk</td>
<td>$293.71</td>
<td>0.81%</td>
<td></td>
</tr>
<tr>
<td>Subguard</td>
<td>$442.56</td>
<td>0.12%</td>
<td></td>
</tr>
<tr>
<td>CP</td>
<td>$674.05</td>
<td>2.06%</td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>$3,497</strong></td>
<td></td>
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</table>

**Trade Details**

<table>
<thead>
<tr>
<th>Description of Work from GRC</th>
<th>Trade Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements (GRC)</td>
<td>$0</td>
</tr>
<tr>
<td>Material(s) &amp; Equipment</td>
<td>$0</td>
</tr>
<tr>
<td>Conditions (GRC)</td>
<td>$0</td>
</tr>
<tr>
<td>General Requirements (GRC)</td>
<td>$0</td>
</tr>
<tr>
<td>Self-Performed Labor</td>
<td>$0</td>
</tr>
<tr>
<td>Conditions (GRC)</td>
<td>$0</td>
</tr>
<tr>
<td>General Requirements (GRC)</td>
<td>$0</td>
</tr>
</tbody>
</table>

General Summary of the Estimate

International African American Museum

Turner

COR No.: 148
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:

Scope:
Additional Boiler Feed

Includes:
One additional 3" EMT with (4) 350 kcmil feed for boiler.

Clarification:
Per original plans there was only one 2" EMT with (3) 250 kcmil plus ground conductors to the boiler.
Boiler requires a parallel feed of (2) 3" EMT with 250 kcmil plus ground per RFI #562.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 1 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_47>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot; CONDUIT - EMT</td>
<td>1</td>
<td>12.17</td>
<td>0.11</td>
</tr>
<tr>
<td>3&quot; ELBOW 90 DEG - EMT</td>
<td>4</td>
<td>391.12</td>
<td>2.80</td>
</tr>
<tr>
<td>3&quot; CONN COMP STL - EMT</td>
<td>4</td>
<td>415.81</td>
<td>2.40</td>
</tr>
<tr>
<td>3&quot; COUPLING COMP STL - EMT</td>
<td>4</td>
<td>499.47</td>
<td>3.20</td>
</tr>
<tr>
<td>3&quot; BUSHING - PLASTIC</td>
<td>4</td>
<td>15.08</td>
<td>0.40</td>
</tr>
<tr>
<td>3&quot; SPRING STL CONDUIT CLAMP W/ BOLT</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>#250 THHN BLACK</td>
<td>43</td>
<td>775.34</td>
<td>1.38</td>
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<tr>
<td># 2 THHN GREEN</td>
<td>1</td>
<td>5.86</td>
<td>0.02</td>
</tr>
<tr>
<td>3/8-16 MACHINE SCREW ANCHOR</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>3/8&quot; THREADED ROD - PLTD</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>3/8-16 HEX NUT - PLTD STL</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td><strong>Totals</strong></td>
<td><strong>61</strong></td>
<td><strong>2,114.84</strong></td>
<td><strong>10.30</strong></td>
</tr>
</tbody>
</table>

Summary

General Materials
Material Tax (@ 9.000 %)  

2,114.84
190.34

ORIGINAL
## PROPOSED CHANGE ORDER

### Summary (Cont'd)

<table>
<thead>
<tr>
<th>Material</th>
<th>Total</th>
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<tbody>
<tr>
<td>JOURNEYMAN (10.30 Hrs @ $45.00)</td>
<td>463.50</td>
</tr>
<tr>
<td>FOREMAN (1.55 Hrs @ $50.00)</td>
<td>77.50</td>
</tr>
<tr>
<td>PM&amp;S (11.85 @ 0.00 @ $7.56 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>89.59</td>
</tr>
<tr>
<td>VDC (11.85 @ 0.00 @ $4.24 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>50.24</td>
</tr>
<tr>
<td>VEHICLES (11.85 @ 0.00 @ $3.53 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>41.83</td>
</tr>
</tbody>
</table>

**Subtotal**
- Overhead (@ 10.000 %) | 302.78
- Markup (@ 5.000 %)    | 166.53

**Subtotal** | $3,497.15

**Final Amount** | **$3,497.15**

### CONTRACTOR CERTIFICATION

Name: 

Date: 

Signature: 

I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

PCO #: 47

Final Amount: $3,497.15

Name: 

Date: 

Signature: 

I hereby accept this quotation and authorize the contractor to complete the above described work.
**Change Order Proposal Review Form**

To: Edmund V. Most  
From: Mike Ristiski  
Date: 10/7/2021  
Contractor: Turner Construction Company

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 149  
**Contract:** Construction

**Description of work to be performed:** BTM Pivots 3rd Floor Exterior Doors  
This change is associated with the material and labor for the installation of the bottom pivot of all exterior doors at the third floor of the museum. This change was done because the specified pivot was not able to be anchored in order to meet the hurricane rating for the doors a new pivot had to be installed.

**Justification:** C - Errors and Omissions

**Attachments:**
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

**Cost Estimate (Expected to Exceed $10,000):**  
Change Proposal Request from CMR with Detailed Backup

**Proposal Cost (not to exceed):** $3,314.00  
Owner Contingency Allow. Bal.

**Time Extension Requested:**  
Time Extension Recommended:

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

---

**Approved:**

(YES)  
(Circle One)

Rick Holt, Cumming Corp.

(YES)  
(Circle One)

Robert Faust, Cumming Corp.

(YES)  
(Circle One)

Edmund V. Most, City of Charleston

(YES)  
(Circle One)

Bernard Costantino, Moody Nolan

---

**Decision needed by:** October 7, 2021  
Mike Ristiski, Cumming Corp.
Date Submitted: August 17, 2021

To:  
    Edmund Most  
    City of Charleston

Re: International African American Museum  
    7215 BTM Pivots Add

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>To change out the original specified door harware that did not work with the building conditions.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason</th>
<th></th>
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<tbody>
<tr>
<td>Owner Directive</td>
<td>Code / Regulatory</td>
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<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
</tr>
</tbody>
</table>

| Work has been Completed | Work Has Commenced &/or is Ongoing |

Submitted By:  
[Signature]  
Walter News  
Project Engineer  
Dated 08/17/2021

Contractor: TURNER BROWNSTONE  
08/17/2021  
$ 6,256  
Amount Requested

Requested Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price  

Authorized Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price  

Reviewed By:  
Program Manager: CUMMING  
Dated  

Approved By:  
Owner: City of Charleston  
Dated  
$ 6,256  
Amount Approved
<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Estimate of Directs</th>
<th>Trade Directs</th>
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<tbody>
<tr>
<td>General Requirements (G.R.) &amp; General Conditions (G.S.)</td>
<td>$5,794.00</td>
<td>$5,794.00</td>
</tr>
<tr>
<td>Self-Performed Labor</td>
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<td>$0</td>
</tr>
<tr>
<td>Material Items &amp; Equipment</td>
<td>$0</td>
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</table>

**Note:**

149

General Summary of the Estimate

International African American Museum

**COR NO.:**
# TRADE DIRECTS

**GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
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<tbody>
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<td>Cor No.</td>
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<tr>
<td>International African American Museum</td>
<td></td>
<td></td>
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</tr>
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</table>

"Additional Services Due to Scope of Work may need to be added to make new proposals."
Prime Contract Potential Change Order #013: CE #059 - RFI 647 Added Doro prep For Pivots

TO: Turner Construction Company (Charleston)  
    4055 Faber Place Dr.  
    Charleston, South Carolina 29405

FROM: 1st Choice Glass  
       3221-A Westwood Industrial Drive  
       Monroe, North Carolina 28110

PCO NUMBER/REVISION: 013 / 0

REQUEST RECEIVED FROM: Walt Lewis (Turner Construction Company (Charleston))

CREATED BY: Bobby Rice (1st Choice Glass)

STATUS: Pending - Not Proceeding

CREATED DATE: 7/13/2021

REFERENCE: RFI 647

PRIME CONTRACT CHANGE ORDER: None

FIELD CHANGE: No

LOCATION: Accounting Method: Amount Based

SCHEDULE IMPACT: 5 days

PAID IN FULL: No

EXECUTED: No

SIGNED CHANGE ORDER RECEIVED DATE: 

TOTAL AMOUNT: $4,347.00

POTENTIAL CHANGE ORDER TITLE: CE #059 - RFI 647 Added Doro prep For Pivots

CHANGE REASON: RFI 647

POTENTIAL CHANGE ORDER DESCRIPTION: (The Contract Is Changed As Follows) 
CE #059 - RFI 647 Added Doro prep For Pivots
To remove the currently installed doors, rework the door prep to accept a new bottom pivot, complete new pivot prep on the door frame and reinstall the door.
Openings C302, 300, C301, M315, E309, E310-1, E310-2 to IVES 7215 at bottom hinges.

ATTACHMENTS:
FW_RFI_#647_Level 3 Storefront-Pivot Hinges.msg

<table>
<thead>
<tr>
<th>#</th>
<th>Budget Code</th>
<th>Description</th>
<th>Amount</th>
<th>Sales Tax (9.25% Applies to Equipment and Materials.)</th>
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<tbody>
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<td>Subtotal:</td>
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<td>$3,780.00</td>
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<td>$3,780.00</td>
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<td>Overhead (10.00% Applies to Subcontract, Labor, Equipment, Materials, Commitment, Owner Cost, and Professional Services.):</td>
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<td>$378.00</td>
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<td>Profit (5.00% Applies to all line item types.):</td>
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<td>Grand Total:</td>
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<td>$4,347.00</td>
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<td>$4,347.00</td>
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</table>
To: Turner Construction
Attn: Sarah Lippai

Date: July 12, 2021
Project: IAAM

Regarding: Add 7215 BTM Pivots - 3Rd FL Alumunum

---

Division 8

See Attached Material Breakdown

$ 1,407.00
+tax

The above prices are subject to the following conditions/exclusions:
We exclude all glass any glazing unless otherwise noted.
All hardware for aluminum doors by door supplier unless otherwise noted.
The above prices are subject to the following terms:
Our terms are Net 30 subject to credit approval.
Freight is FOB Destination, unloading and storage is excluded.

Quoted prices are valid for 30 days.

Thank you for the opportunity to participate in your project. Please contact us for any additional clarification you may require. At Cook and Boardman we are proud to have earned a reputation of being a service/solution provider in addition to providing materials.

Respectfully,
Melinda Gue

Email: mgue@cookandboardman.com
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>-1 Pair Doors #300</strong></td>
<td>Exterior Walkway from Administration 300</td>
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<tr>
<td><strong>1 Pair Doors #300</strong></td>
<td>Exterior Walkway from Administration 300</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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</table>

Opening Total $ 201.00

<table>
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<tbody>
<tr>
<td><strong>-1 Pair Doors #C301</strong></td>
<td>Exterior from Corridor C301</td>
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<tr>
<td><strong>1 Pair Doors #C301</strong></td>
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<tr>
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<td>7215 BTM</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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</table>

Opening Total $ 201.00

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>-1 Pair Doors #C302</strong></td>
<td>Exterior Walkway from Corridor C302</td>
</tr>
<tr>
<td><strong>1 Pair Doors #C302</strong></td>
<td>Exterior Walkway from Corridor C302</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
</tr>
<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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Opening Total $ 201.00

<table>
<thead>
<tr>
<th>Item Description</th>
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<tbody>
<tr>
<td><strong>-1 Pair Doors #E309</strong></td>
<td>Exterior Walkway from Emergency Elect. E309</td>
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<td><strong>1 Pair Doors #E309</strong></td>
<td>Exterior Walkway from Emergency Elect. E309</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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Opening Total $ 201.00

<table>
<thead>
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<th>Item Description</th>
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<tbody>
<tr>
<td><strong>-1 Pair Doors #E310-1</strong></td>
<td>Exterior Walkway from Main Electrical E310</td>
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<tr>
<td><strong>1 Pair Doors #E310-1</strong></td>
<td>Exterior Walkway from Main Electrical E310</td>
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<tr>
<td>1 Bottom Pivot</td>
<td>7215 BTM</td>
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<tr>
<td>1 Bottom Pivot</td>
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Opening Total $ 201.00

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<tbody>
<tr>
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<td>Exterior Walkway from Main Electrical E310</td>
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<td>7215 BTM</td>
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<td>1 Bottom Pivot</td>
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</table>

Opening Total $ 201.00

<table>
<thead>
<tr>
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<tbody>
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<td><strong>-1 Pair Doors #M315</strong></td>
<td>Exterior from Elev. Mech Rm M315</td>
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<tr>
<td><strong>1 Pair Doors #M315</strong></td>
<td>Exterior from Elev. Mech Rm M315</td>
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<tr>
<td>Item</td>
<td>Description</td>
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<td>----------------</td>
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</tr>
<tr>
<td>1 Bottom Pivot</td>
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</tr>
<tr>
<td>1 Bottom Pivot</td>
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</tbody>
</table>

|  | RH | LH |

**Opening Total** $201.00

**Total Change Order** $1,407.00
To: Edmund V. Most  
From: Mike Risteski  
Date: 10/27/2020  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 150  
Contract: Construction

Description of work to be performed: Catwalk Revision per Bulletin 27
This change is associated with the materials and labor in the modification of the catwalk on the third floor of the IAAM building. TB had installed the catwalk on the roof prior to the coordination the roofing installation. Due to design error the roofing system had to be redesigned and additional roof drains had to be installed. Because the catwalk was installed prior to the coordination of the roof the removal and reinstall of the catwalk is not included in the price of the catwalk modification.

Justification: C - Errors and Omissions

Attachments:  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)  
- Cost Estimate (Expected to Exceed $10,000)  
- Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $84,070.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 27, 2021

Approved:

NO (YES) [Circle One]  
Mike Risteski, Cumming Corp.

(Rick Holt, Cumming Corp.)  
Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan

Roeschi Lawler
Date Submitted: October 25, 2021

To: Edmund Most
City of Charleston

Re: International African American Museum

Revised Catwalk per Bulletin 27.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Revised Catwalk Pricing with additional Break out. The cost of reworking the Catwalk system per Bulletin 27.

Reason: 
☐ Owner Directive  ☐ Code / Regulatory  ☐ Unforeseen Condition  ☑ Design Issue

Pricing:  ☑ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time
Impact:  ☐ Work has been Completed  ☐ Work Has Commenced &/or is Ongoing

Submitted By: Contractor: TURNER BROWNSTONE
Walter Lewis  10/25/2021  $ 84,070
Project Engineer  Dated  Amount Requested

Reviewed By: Program Manager: CUMMING

Authorized Action:
☐ Authorized to Proceed While Pricing  ☐ Price Only  ☐ Do Not Proceed or Price

Approved By: Owner: City of Charleston
Edmund Most  $ 84,070
Dated  Amount Approved
<table>
<thead>
<tr>
<th>COR NO.: 15083</th>
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<tbody>
<tr>
<td>General Summary of the Estimate</td>
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</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Description of Work</th>
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<tbody>
<tr>
<td>Total Estimate</td>
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<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
<th>TRADE DIRECTS</th>
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<td>$77,330.00</td>
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<tr>
<td>$0</td>
<td>General Requirements (GR) &amp; General Conditions (GC)</td>
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<td>$0</td>
<td>General Requirements (GR) &amp; General Conditions (GC)</td>
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<td>Self Performed Labor</td>
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<table>
<thead>
<tr>
<th>ESTIMATE TOTAL</th>
<th>ESTIMATE TOTAL</th>
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<td>$2,628.46</td>
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<td>Description</td>
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<td>--------------------------------------------------</td>
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<tr>
<td>Demolition, Removal</td>
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<tr>
<td>Condensed Cafe Wall</td>
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<tr>
<td>Gypsum/Plaster Removal</td>
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<tr>
<td>Steel Structures</td>
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<tr>
<td>Additional Scope of Work</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

**Cor No.:** 1503

International African American Museum

**Trade Directs:**

**GENERAL REQUIREMENTS (GR.4) & GENERAL CONDITIONS (GC.4):**

**DESCRIPTION:**

**DIVISIONS OF WORK:**

**Comments:**
Date Submitted: September 21, 2021

To: Edmund Most  
City of Charleston

Re: International African American Museum

Revised Catwalk per Bulletin 27.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | Revised Catwalk Pricing with additional Break out. The cost of reworking the Catwalk system per Bulletin 27. |

Reason:  
- [ ] Owner Directive  
- [ ] Code / Regulatory  
- [ ] Unforeseen Condition  
- [X] Design Issue

Pricing:  
- [ ] ROM Estimate of GR's & Insurances  
- [ ] ROM Estimate for Entire PCO  
- [X] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:  
- [ ] Evaluating Potential for Time Impact  
- [ ] Evaluated - NO TIME IMPACT  
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

- [ ] Work has been Completed  
- [ ] Work Has Commenced 8/or is Ongoing  
- [ ] Work Authorization is Requested By:

Submitted By: Walter Lewis  
Project Engineer  
09/21/2021  
$ 92,224

Contractor: TURNER BROWNSTONE

Requested Action:  
- [ ] Authorized to Proceed While Pricing  
- [ ] Price Only  
- [ ] Do Not Proceed or Price

Authorized Action:  
- [ ] Authorized to Proceed While Pricing  
- [ ] Price Only  
- [ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated:  

Approved By: Owner: City of Charleston

Dated:  
$ 92,224
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<td>$712.75</td>
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<td>$117.77</td>
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<td>$220.75</td>
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SubTotal: $84,830

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<tr>
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<tr>
<td>Conditions (GC5)</td>
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<td>Material &amp; Equipment</td>
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<td>General Requirements (GR) &amp; General Conditions (GC5)</td>
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</tr>
<tr>
<td>Self-Performed Labor</td>
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<tr>
<td>General Requirements (GR) &amp; General Conditions (GC5)</td>
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Description of Work

General Summary of the Estimate

International African American Museum

Cor. No.: 150R1
<table>
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<th>Description</th>
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<tbody>
<tr>
<td>Remove crews and equipment</td>
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<td>$12,900.00</td>
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<tr>
<td>Additional scope of work</td>
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<td><strong>Subtotal</strong></td>
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<td><strong>$107,000.00</strong></td>
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**Total:** $107,000.00
# PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**
1947 Union Cross Road
Winston-Salem, NC 27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

**TO:**
Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209

**Attention:**
Walt Lewis

**Phone:**
919-788-2024

**PROJECT:**
International African American Museum
Charleston, SC

**PROPOSED CHANGE ORDER #:**
39

**REVISION #:**
N/A

**LSC CONTRACT #:**
19041

**DATE:**
02/16/21

**DESCRIPTION**
Added cost for field work to date, taking catwalk material down off Roof. Also, added cost for new detailing and engineering to modify design and fabricate new posts, channel and tube stubs for catwalk and reinstalling at Roof per Turner's request. See attached Change Order from M&C Metals, LLC for added material and detailed description of installation cost.

*Sandblasting and prime painting new material included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>M&amp;C Metal Works, LLC - Item #1</td>
<td>ADD $13,580</td>
</tr>
<tr>
<td>Removal of Catwalk work complete to date</td>
<td></td>
</tr>
<tr>
<td>M&amp;C Metal Works, LLC - Item #2</td>
<td>Material</td>
</tr>
<tr>
<td>Cost for requested modifications</td>
<td>Install</td>
</tr>
<tr>
<td>Overhead &amp; Profit</td>
<td></td>
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<tr>
<td>Bonding</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TAX</td>
</tr>
</tbody>
</table>

This change will ADD an additional 15 WORK DAYS to our scheduled scope of work.

| Total This Change Order: | $98,410 |

---

**Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.**

**LSC PM:**
DeWitt Friedermann

e-mail: DFriedermann@lyndonsteel.com

**Prepared By:**
Spencer Fleming

**Turner Const Signature:**
Date: 02/16/21

**LSC Signature:**
Date: 02/16/21

**Turner to deduct 7,500.00 for Crane and Labor to Reinstall the Catwalk.**
DeWitt,

Please see change order cost for work associated with IAAM catwalk. Please review and call me to discuss if any questions. Please note that item 1 is already complete and part of item #2 completed.

1. LABOR & EQUIPMENT TO REMOVE PREVIOUSLY INSTALLED CATWALK FRAMING OFF OF ROOF.

   LABOR = $9,845.00
   EQUIPMENT = $2,500.00
   MARKUP (10%) = $1,235.00

   ADD FOR ITEM #1 _______________ $13,580.00

   This cost includes removal and installation of Catwalk.
   Removal 10,080.00
   Installation 3,500.00

2. REVISE CATWALK LAYOUT AND MODIFY DESIGN TO ACCOMMODATE REQUIRED CHANGES PER SITE REQUEST. THIS INCLUDES DETAILING NEW DRAWING SECTIONS, ENGINEERING THE NEW POST LAYOUT, CUTTING EXISTING POSTS OFF OF CATWALK FRAMING, MATERIAL & LABOR TO FABRICATE NEW CATWALK POSTS, MATERIAL AND LABOR TO FABRICATE CHANNEL AND TUBE STEEL STUBS, SANDBLASTING AND PRIMING NEW POSTS AND STUBS, INSTALLING NEW POST ON ROOF, FIELD WELDING STUBS TO CURRENT FRAMING, SETTING NEW FRAMING BACK ON ROOF (STUB POSTS TO BE SAT DOWN INSIDE OF NEWLY INSTALLED ROOF POSTS).

   MATERIAL (4406 #) = $4,186.00
   SHOP LABOR (192 x $55) = $10,560.00
   SANDBLAST & PRIMER (4406#) = $2,585.00
   FREIGHT = $1,150.00
   DETAILING = $3,870.00
   ENGINEERING (lump sum from engineer for calcs, time on several calls) = $2,950.00
   FIELD LABOR (5 men x 100 hrs) = $32,490.00
   EQUIPMENT (fork lift & boom lift) = $4,900.00
   MARKUP (10%) = $6,269.00

   ADD FOR ITEM #2 _______________ $68,960.00

Material costs include: All new Legs, New Square connection plate, Shrouds, New rail at old step down.
Shop Labor includes make new legs Caps for legs, New Rail,
Field Labor includes Demo of Original Legs out of the concrete. Installation of new Legs in new areas.
Installation of Square Tubs cover on each leg. Re work Catwalk to fit new legs, Welding, Sanding, Priming, etc. ready for install.

M&C Metal Works, LLC
By Greg Marlow
**Cumming**  
**Change Order Proposal Review Form**

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 10/1/2021  
**Contractor:** Turner Construction Company

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 151  
**Contract:** Construction

**Description of work to be performed:** Additional Steel for MEP  
This change is associated with the materials and labor of installing additional steel in the building in locations where MEP penetrations had to be created in the structural steel.

<table>
<thead>
<tr>
<th>A</th>
<th>Customer Requested Change</th>
</tr>
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<tbody>
<tr>
<td>B</td>
<td>Codes/Regulatory Agency Required Change</td>
</tr>
<tr>
<td>C</td>
<td>Errors and Omissions</td>
</tr>
<tr>
<td>D</td>
<td>Replacing Unsuitable Soils</td>
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<tr>
<td>E</td>
<td>Soils Related Change Other</td>
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<tr>
<td>F</td>
<td>Unforeseen Conditions</td>
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<tr>
<td>G</td>
<td>Time Related Change</td>
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<tr>
<td>H</td>
<td>Liquidated Damages</td>
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<tr>
<td>I</td>
<td>Value Engineering Change</td>
</tr>
<tr>
<td>J</td>
<td>Exercising Pre-Paid Option (Allowance)</td>
</tr>
<tr>
<td>K</td>
<td>Accounting Error</td>
</tr>
<tr>
<td>(Indicate Reason for Change Proposal)</td>
<td></td>
</tr>
</tbody>
</table>

**Justification:** F - Unforeseen Conditions

**Attachments:**  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

**Cost Estimate (Expected to Exceed $10,000):**  
Change Proposal Request from CMR with Detailed Backup

**Proposal Cost (not to exceed):** $3,394.00  
Owner Contingency Allow. Bal.

**Time Extension Requested:**  
Time Extension Recommended:

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

---

**Decision needed by:** October 1, 2021

(YES) (NO)  
Mike Risteski, Cumming Corp.

**Approved:**

(YES) (NO)  
Rick Holt, Cumming Corp.

(YES) (NO)  
Robert Faust, Cumming Corp.

(YES) (NO)  
Bernard Costantino

(YES) (NO)  
Bernard Costantino, MDDP, Notary
Date Submitted: July 20, 2021

To: Edmund Most
City of Charleston

Re: International African American Museum

RFI 397 - Additional Steel Install

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To provide additional steel per RFI 397.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR’s &amp; Insurances □  ROM Estimate for Entire PCO □  Lump Sum or Firm Fixed Unit Pricing □  for Trade Contractors - See Detailed Estimates □</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact □  Evaluated - NO TIME IMPACT □  Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis) □  Work has been Completed □  Work Has Commenced &amp;/or is Ongoing □</td>
</tr>
<tr>
<td></td>
<td>Work Authorization is Requested By:</td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis  Project Engineer  Dated  07/20/21
Contractor: TURNER BROWNSTONE
07/20/21  $ 3,394  Amount Requested

Requested Action:
Authorized to Proceed While Pricing □  Price Only □  Do Not Proceed or Price □

Reviewed By: Program Manager: CUMMING  Dated
Authorized Action:
Authorized to Proceed While Pricing □  Price Only □  Do Not Proceed or Price □

Approved By: Owner: City of Charleston  Dated  $ 3,394  Amount Approved
<table>
<thead>
<tr>
<th>Estimate Total</th>
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<tbody>
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<td>$3,394</td>
<td></td>
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<tr>
<td>$106.12</td>
<td>@</td>
<td>% 3.25</td>
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<tr>
<td>$1.40</td>
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<td>% 0.04500</td>
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<td>% 0.00732</td>
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<tr>
<td>$262.22</td>
<td>@</td>
<td>% 0.84</td>
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<tr>
<td>$374.46</td>
<td>@</td>
<td>% 2.012</td>
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<tr>
<td>$798.05</td>
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<td>% 2.50</td>
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<td><strong>Subtotal</strong></td>
<td>$3,122</td>
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<table>
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<td><strong>Subtotal</strong></td>
<td>$3,122.00</td>
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<tr>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>General Requirements (GCR) &amp; General Conditions (GC) Material(s) &amp; Equipment</td>
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<tr>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>General Requirements (GCR) &amp; General Conditions (GC) Self-Performed Labor</td>
<td></td>
</tr>
</tbody>
</table>

**Description of Work**

General Summary of the Estimate

International African American Museum

**Cor No.:**

**Turner**
**DIRECT WORK SUBTOTAL:**

<p>| | | | | |</p>
<table>
<thead>
<tr>
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</tbody>
</table>

**GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)**

**DESCRIPTION**

<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
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<th></th>
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<tbody>
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</tr>
</tbody>
</table>

**COR No.:** 151

**INTERNATIONAL AFRICAN AMERICAN MUSEUM**
PROPOSED CHANGE ORDER

LYNDON STEEL COMPANY LLC
1947 Union Cross Road
Winston-Salem, NC 27107
www.lyndonsteel.com
(336) 785-0848 FAX 788-8835

TO: Turner Const
4601 Park Road, Suite 601
Charlotte, NC 28209

Attention: Walt Lewis
Phone: 919-788-2024 FAX: -

PROJECT: International African American Museum
Charleston, SC

Description: RFI #397 Response Dated 8/24/20
NOC#: 28

DESCRIPTION

Added cost due to receipt of RFI #397 response dated 8/24/20.
Added (2) HSS 7.62x.375 and (18) 3/8" reinforcement plates to support beam penetrations required for the sanitary system.
Reference LSC Drawings FW2006, FW3017, 2040, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041 and 3042.
See attached Proposed Detailing Extras Forms for additional description of revision detailing.

| Materials  | ADD  | $225 |
| Shop Labor | ADD  | $1,120 |
| Detailing  | ADD  | $425 |
| Freight    | ADD  | $900 |
| Overhead & Profit | ADD | $401 |
| Bonding    | ADD  | $31 |

TAX $20

Total This Change Order: $3,122

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

LSC PM: DeWitt Friedermann
e-mail: DFriedermann@lyndonsteel.com
Prepared by: Spencer Fleming

LSC Const Signature: Date:

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company.
Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.
If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.

LYD07 LSC PROJECTS/2018/0041 INTERNATIONAL AFRICAN AMERICAN MUSEUM (CHARLESTON, SC)/Accounting/L1:Final PCS - International African American Museum - Charleston, SC/11/21/2018
Source of Change: Bulletin 15
Added (1) rectangular penetration and (1) pipe sleeve on grid line C.5 between line 7.5 & 8.5.

General Description of Change:
Added (1) rectangular penetration and (1) pipe sleeve on grid line C.5 between line 7.5 & 8.5.

List of ADDED PIECE MARKS and/or Number of Added Members at the Time of Revision
Added (2) field work drawings.

List of REVISED PIECE MARKS & Status
Added (2) field work drawings.

Total Detailing Hours this sheet: 4
Total Checking Hours this sheet: 1
Total Hours this sheet: 5

NOTE: The detailer is not to proceed with changes until this form is signed and returned.
For urgent and for unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.
NOTE: The Detailer has the option of using their standard company form if all the above information is included.

Fax to: Detaller CC: PM, PC, NOC Estimator Original: BB
To: Edmund V. Most  
From: Mike Risteski  
Date: 1/10/2022  
Contractor: Turner Construction Company  
Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 152  
Contract: Construction

Description of work to be performed: Additional Steel per ASI 21
This change is associated with the materials for the installation of the supporting angles for brick.
The original design was conceptual and the structural steel subcontractor and detailer with the help of the design
team created substitutions

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $29,974.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  
Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:  

Decision needed by: January 10, 2022  
(Circle One) (NO) (YES)  
Mike Risteski, Cumming Corp.

Approved:  
(Circle One) (NO) (YES)  
Rick Holt, Cumming Corp.

(Circle One) (NO) (YES)  
Robert Faust, Cumming Corp.

(Circle One) (NO) (YES)  
Edmund V. Most, City of Charleston

(Circle One) (NO) (YES)  
Bernard Costamiano, Moody Nolan

(Circle One) (NO) (YES)  
Roxane Larkum
# PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**  
1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835  

**PROPOSED CHANGE ORDER #:** 22  
**REVISION #:** N/A  
**LSC CONTRACT #:** 19041  
**DATE:** 09/22/20

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209  

**PROJECT:** International African American Museum  
Charleston, SC

**Attention:** Walt Lewis  
**Phone:** 919-788-2024  
**FAX:** -

**Description:** ASI 021 Dated 8/5/20

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added cost due to receipt of ASI 021 dated 8/5/20.</td>
</tr>
<tr>
<td>Detail 6: Added (2) 1/2&quot; plates with C6x10.5 and (28) 1/4&quot;-1/8&quot; shim packs.</td>
</tr>
<tr>
<td>Detail 7: Revised (2) steel tubes, piece marked 22022, adding (12) galvanized connection L4x4x1/2's, and (6) 3/4&quot; plates with shop attached 5/8&quot; threaded rods.</td>
</tr>
<tr>
<td>Detail 8: Added (16) 1/4&quot; bent plates at head and sill of W7 windows.</td>
</tr>
<tr>
<td>Reference revised LSC Drawings 22022, E22005r1 and E22006r1, and new Drawings 22032 through 22036.</td>
</tr>
<tr>
<td>See attached Proposed Detailing Extras Forms for additional description of revision detailing.</td>
</tr>
<tr>
<td><strong>Installation of 1/4&quot; bent plates at head and sills of W7 windows, attaching to cold formed framing is not included.</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material Type</th>
<th>A/D</th>
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<tbody>
<tr>
<td>Materials</td>
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<td>$3,258</td>
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<tr>
<td>Shop Labor</td>
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<td>$3,120</td>
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<tr>
<td>Detailing</td>
<td>ADD</td>
<td>$1,105</td>
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<tr>
<td>Freight</td>
<td>ADD</td>
<td>$1,800</td>
</tr>
<tr>
<td>Erection - CAS Steel</td>
<td>ADD</td>
<td>$16,266</td>
</tr>
<tr>
<td>Overhead &amp; Profit</td>
<td>ADD</td>
<td>$3,832</td>
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<tr>
<td>Bonding</td>
<td>ADD</td>
<td>$300</td>
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<tr>
<td><strong>TAX</strong></td>
<td></td>
<td>$293</td>
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</tbody>
</table>

**This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.**

**Total This Change Order:** $29,974

**Accepted:** The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

**Turner Const Signature:**  
**Date:**

**LSC Signature:**  
**Date:** 09/22/20

**LSC PM:** DeWitt Friedermann  
**e-mail:** DFriedermann@lyndonsteel.com  
**Prepared By:** Spencer Fleming

---

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company.  
Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.  
If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
Sheet # 1  of  1

Job No. 9041  Job Name International African American Museum

Detailer Reference CO # AB  NOC# 27 (Contact PM or DC for number)

Source of Change: ASI 021.pdf
Revised (2) frames per W4 window wall head support detail #7, added (2) frames per W4 window wall sill support detail #6.
Added (8) frames per W7 window wall head and sill support details #8.

General Description of Change:
Revised (2) frames per W4 window wall head support detail #7, added (2) frames per W4 window wall sill support detail #6.
Added (8) frames per W7 window wall head and sill support details #8.

<table>
<thead>
<tr>
<th>List of ADDED PIECE MARKS and/or Number of Added Members</th>
<th>at the Time of Revision</th>
<th>Detail Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revised (2) frames shop drawings, added (2) new frames shop drawings for W4 window.</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Added (2) new frames shop drawings for W7 window.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>List of REVISED PIECE MARKS &amp; Status</th>
<th>Shop Drawing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revised (2) frames shop drawings, added (2) new frames shop drawings for W4 window.</td>
<td></td>
</tr>
<tr>
<td>Added (2) new frames shop drawings for W7 window.</td>
<td></td>
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<tr>
<th>Total Detailing Hours this sheet</th>
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<tr>
<td>Total Checking Hours this sheet</td>
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<tr>
<td>Total Impact to Schedule, ALL sheets:</td>
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<tr>
<td>Total Hours this sheet</td>
<td>13</td>
</tr>
</tbody>
</table>

Detailing Coord. Review: _____________________________ and Total Det and Ckg Hours ALL sheets | 13 |

Project Manager Acceptance: _________________________ (Signature) _________________________ (Dated)

NOTE: The detailer is not to proceed with changes until this form is signed and returned.
For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

NOTE: The Detailer has the option of using their standard company form if all the above information is included.
Fax to: Detailer  CC: PM, PC, NOC Estimator  Original: BB
ARCHITECT’S SUPPLEMENTAL INSTRUCTIONS / CLARIFICATION

PROJECT IAAM
PROJECT NO. 15490
TO Bobby Teachey

ASI NO. ASI #021
DATE August 5, 2020
FROM Bernie Costantino

The work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. If additional cost or time is involved, please advise in writing prior to proceeding in accordance with these instructions. Otherwise, no response is required and acceptance is assumed.

DESCRIPTION:
Clarification of W4 and W7 Window Wall support details.

Sketches:
PCF Detail #6 dated July 30, 2020 with TTFE mark up for W4 Window Wall Sill Support Detail.
PCF Detail #7 dated July 30, 2020 with TTFE mark up for W4 Window Wall Head Support Detail (Reference Lyndon Steel Submittal 051200-42.3 Sheet E22004 Section F).
PCF Detail #8 dated July 30, 2020 with TTFE mark up for W7 Window Wall Head and Sill Support Details.

ATTACHMENTS: All listed sketches

DISTRIBUTION:
Rick Davis
Bri’Shae Anderson
Walter Lewis
Brianne Stasiak
Edmund Most
Rick Holt
Robert Faust
Jonathan Roberts
Julie Cook
Bob Lammer
Matteo Milani
2"x2" STEEL SHIM STACK, IF REQUIRED TO PROVIDE BEARING SURFACE. BED IN ADHESIVE. LOCATE AT EACH VERTICAL STEEL STUD. VERTICAL REACTION OF 283 PLF TO BE REVIEWED BY STUD SUBCONTRACTOR.
Welded plate, detail per Lyndon drawing above.

STEEL ANGLES (FOR WINDOW):
TO BE VERIFIED AND ENGINEERED BY TTFE.
STEELE ANGLES:

WEEH HOLE

6"

BEAR BRICK ON 4".

R O. 4'-5"

NOTE:
WINDOW INSTALLATION, CFS AND WOOD FINISH INSTALLATION DETAIL OR DIMENSIONS TO BE VERIFI AND COORDINATED BY CONTRACTORS.

#10-16 Elco Biflex Screws.
x6 at each jamb, see elevation below

PLASTIC HORSESHOE SHIMS AS REQUIRED FOR BEARING OF
To: Edmund V. Most  
From: Mike Risteski  
Date: 1/13/2022  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 153  
Contract: Construction  

<table>
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<tr>
<th>Description of work to be performed:</th>
<th>ASI 26 &amp; 27 Additional Steel</th>
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<tbody>
<tr>
<td>This change is associated with the materials for the installation of the supporting angles at the windows</td>
<td></td>
</tr>
<tr>
<td>The original design was conceptual and the structural steel subcontractor and detailer with the help of the design team created substitutions</td>
<td></td>
</tr>
</tbody>
</table>

| Justification: | F - Unforeseen Conditions |

| Attachments: | J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP) |
|--------------|---------------------------|

<table>
<thead>
<tr>
<th>Cost Estimate (Expected to Exceed $10,000)</th>
<th>Change Proposal Request from CMR with Detailed Backup</th>
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</thead>
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| Proposal Cost (not to exceed): | $144,265.00  
Owner Contingency Allow. Bal. |
|-------------------------------|-------------------|

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<tr>
<th>Time Extension Requested:</th>
<th>Time Extension Recommended:</th>
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</table>

<table>
<thead>
<tr>
<th>Special Circumstances:</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Consequence of Rejection:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Comments by Supervisor:</th>
</tr>
</thead>
</table>

Approved:  

Decision needed by:  
Mike Risteski, Cumming Corp.  
January 10, 2022  

Signatures:  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Cestintino, Moody Nolan  
Robert Larrimer
# PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**  
1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835

**PROJECT:** International African American Museum  
Charleston, SC

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209

**Attention:** Walt Lewis  
**Phone:** 919-788-2024  
**FAX:** -

**PROJECT:** ASI 026 Dated 9/16/20  
ASI 027 Dated 9/16/20

**NOC#:** 29 & 32

---

## DESCRIPTION

<table>
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<tr>
<th>A/D</th>
<th>AMOUNT</th>
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<tr>
<td><strong>Materials</strong></td>
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<td><strong>Shop Labor</strong></td>
<td><strong>ADD</strong></td>
</tr>
<tr>
<td><strong>Detailing</strong></td>
<td><strong>ADD</strong></td>
</tr>
<tr>
<td><strong>Freight</strong></td>
<td><strong>ADD</strong></td>
</tr>
<tr>
<td><strong>Erection - CAS Steel</strong></td>
<td><strong>ADD</strong></td>
</tr>
<tr>
<td><strong>Overhead &amp; Profit</strong></td>
<td><strong>ADD</strong></td>
</tr>
<tr>
<td><strong>Bonding</strong></td>
<td><strong>ADD</strong></td>
</tr>
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</table>

**TAX** $1,772

**Total This Change Order:** $144,265

---

**Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.**

**Turner Const Signature:**  
Date:

**LSC Signature:**  
Date: 10/23/20

**De Witt Friedermann**  
**e-mail:** DFriedermann@lyndonsteel.com  
**Prepared By:** Spencer Fleming

---

Please sign and return E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.

If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
Added material associated with ASI 026 dated 9/16/20.

Detail 2A: Added (24) L8x6x1/2 bolted together and bolted to (12) 3/4" plates field welded under beams for W1 window wall head support.

Detail 11: Added (1) HSS 6"x6x1/2 with (16) shop attached plate haunches and (11) L4x4x1/2 assemblies, bolted to (10) 3/4" plates field welded under beams, and L4x3x1/4 and 1/4" x 4-1/2" plate assembly anchored to slab at W5 for window wall head and sill support.

Detail 12: Added (1) HSS 6"x6x1/2 with (6) shop attached plate haunches and (7) L4x4x1/2 assemblies, bolted to (6) 3/4" plates field welded under beams and HSS 3x1/4 and 1/2" x 15" plate assembly anchored to slab at W6 for window wall head and sill support. (20) 1/4" & 1/8" shim packs included.

Reference LSC Drawings E9006, 5057, 5058, 8132, 8133, 8134, E18003, 13060, 13061, 13062, 13063, 18063, 18064, 18065 and 18066, submitted for approval on 9/30/20.

Added material associated with ASI 027 dated 9/18/20.

Detail 13: Added (11) WT 9x35.5"s anchored to wall at W8-1 and W8-2 window wall sill support.

Detail 14: Added (1) HSS 6"x6x1/2 with (7) shop attached plate haunches, bolted to (7) 3/4" plates field welded under beams, at W8-1 and W8-2 window wall head support.

Detail 15: Added (16) WT 9x35.5"s anchored to wall at W8-1A window wall sill support.

Detail 16: Added (7) L 8x8x1/2"s anchored to wall at W8-1 and W8-2 window wall head support.

Reference LSC Drawings E9005, 10055, 10058, E15006, 15105, 15106, 15109, 15110 and 16054 submitted for approval on 9/30/20.

Narrative written by:
Spencer Fleming
Change Order Estimator
Lynxton Steel Company
1947 Union Cross Road
Winston Salem, NC 27107
Ph: (336) 785-0848
Ph: (336) 785-0848
**Job No.** 9041  
**Job Name** International African American Museum  
**Detailer Reference CO #** AD  
**NOC#** 29

**Source of Change:**  
ASI 026  
Added (12) frames & (12) welded plates per W1 window wall head support detail #2A.  
Added (4) frames & (10) welded plates per W5 window wall head and sill support details #11.  
Added (2) frames & (6) welded plates per W6 window wall head and sill support details #12.

**General Description of Change:**  
Added (12) frames & (12) welded plates per W1 window wall head support detail #2A.  
Added (4) frames & (10) welded plates per W5 window wall head and sill support details #11.  
Added (2) frames & (6) welded plates per W6 window wall head and sill support details #12.

---

**List of ADDED PIECE MARKS and/or Number of Added Members**

<table>
<thead>
<tr>
<th>Added Member Description</th>
<th>Detail Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2) new shop drawings per detail #2A</td>
<td>11</td>
</tr>
<tr>
<td>(2) new shop drawings per detail #11</td>
<td></td>
</tr>
<tr>
<td>(2) new E-drawings</td>
<td></td>
</tr>
</tbody>
</table>

---

**List of REVISED PIECE MARKS & Status**

<table>
<thead>
<tr>
<th>Revised Member Description</th>
<th>Shop Drawing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2) new shop drawings per detail #2A</td>
<td>11</td>
</tr>
<tr>
<td>(2) new shop drawings per detail #11</td>
<td></td>
</tr>
<tr>
<td>(2) new E-drawings</td>
<td></td>
</tr>
</tbody>
</table>

---

**Total Detailing Hours this sheet**  
11

**Total Checking Hours this sheet**  
3

**Total Hours this sheet**  
14

**Detailing Coord. Review:**

(Initial / Date)

---

**Project Manager Acceptance:**

(Signature)  
(Dated)

---

**NOTE:** The detailer is not to proceed with changes until this form is signed and returned.  
For urgent and / or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

**NOTE:** The Detailer has the option of using their standard company form if all the above information is included.

**Fax to:** Detaller  
**CC:** PM, PC, NOC Estimator  
**Original:** BB
Source of Change:  ASI 027

Added (33) WT9x35.5 per W8-1 & W8-2 window wall sill support detail #13.
Added (33) frames & (66) welded plates per W8-1 & W8-2 window wall head support details #14.
Added (5) WT9x35.5 per W8-1A window wall sill support detail #15.
Added (5) L8x8x1/2 per W8-1A window wall head support details #16.
Added (4) frames & (16) welded plates per wall section 11 (atrium) on MN_ASI_027.pdf.
Added (1) frames & (7) welded plates per wall section 13 (W6 / W9) on MN_ASI_027.pdf.
Added (2) frames & (8) welded plates per wall section 14 (atrium - niche) on MN_ASI_027.pdf.

General Description of Change:
Added (33) WT9x35.5 per W8-1 & W8-2 window wall sill support detail #13.
Added (33) frames & (66) welded plates per W8-1 & W8-2 window wall head support details #14.
Added (5) WT9x35.5 per W8-1A window wall sill support detail #15.
Added (5) L8x8x1/2 per W8-1A window wall head support details #16.
Added (4) frames & (16) welded plates per wall section 11 (atrium) on MN_ASI_027.pdf.
Added (1) frames & (7) welded plates per wall section 13 (W6 / W9) on MN_ASI_027.pdf.
Added (2) frames & (8) welded plates per wall section 14 (atrium - niche) on MN_ASI_027.pdf.

List of ADDED PIECE MARKS and/or Number of Added Members
at the Time of Revision
Added (22) new shop drawings and (5) new E-drawings per MN_ASI_027.pdf.

List of REVISED PIECE MARKS & Status

Total Detailing Hours this sheet

Total Checking Hours this sheet

Total Hours this sheet

Detail Hrs.

Project Manager Acceptance:

NOTE: The detailer is not to proceed with changes until this form is signed and returned.
For urgent and/or unusual circumstances requiring immediate detailing changes, contact the Project Manager or Detailing Coordinator.

NOTE: The Detailer has the option of using their standard company form if all the above information is included.

Fax to: Detailer CC: PM, PC, NOC Estimator Original: BB
INVOICE

Description: NOC 29 and NOC 32 (Based on Approval Drawings)
Job: 434 IAAM
Date: TBD
Invoice Date: 19-Oct-20

<table>
<thead>
<tr>
<th>Cranes</th>
<th>Quantity</th>
<th>Rate/HR</th>
<th>Hours</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 Ton</td>
<td></td>
<td>$500.00</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>110 Ton</td>
<td></td>
<td>$250.00</td>
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<tr>
<td>100 Ton</td>
<td></td>
<td>$225.00</td>
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<td>$0.00</td>
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</table>

<table>
<thead>
<tr>
<th>Equipment*</th>
<th>Rate/Day</th>
<th>Days</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>300amp Diesel</td>
<td>$60.00</td>
<td>10</td>
<td></td>
<td>$1,200.00</td>
</tr>
<tr>
<td>Gen Pack</td>
<td>$135.00</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>LN25 Wire Weld</td>
<td>$25.00</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Compressor</td>
<td>$25.00</td>
<td></td>
<td></td>
<td>$0.00</td>
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<tr>
<td>Forklift TH83</td>
<td>$486.02</td>
<td>5</td>
<td></td>
<td>$2,430.10</td>
</tr>
<tr>
<td>Misc. Material</td>
<td>$1,500.00</td>
<td>1</td>
<td></td>
<td>$1,500.00</td>
</tr>
<tr>
<td>Duct Jacks</td>
<td></td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Man lift</td>
<td>$238.84</td>
<td>10</td>
<td></td>
<td>$2,388.40</td>
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<tr>
<td>Scissor lift</td>
<td>$88.55</td>
<td>10</td>
<td></td>
<td>$885.50</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Manpower</th>
<th>Rate/HR</th>
<th>Hours</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Supervisor</td>
<td>$70.00</td>
<td>96</td>
<td></td>
<td>$6,720.00</td>
</tr>
<tr>
<td>Journeyman</td>
<td>$65.00</td>
<td>96</td>
<td></td>
<td>$24,960.00</td>
</tr>
<tr>
<td>Firewatch</td>
<td>$22.50</td>
<td>48</td>
<td></td>
<td>$3,240.00</td>
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<tr>
<td>Overtime</td>
<td>$25.00</td>
<td>20</td>
<td></td>
<td>$2,500.00</td>
</tr>
<tr>
<td>Firewatch Overtime</td>
<td>$11.25</td>
<td>8</td>
<td></td>
<td>$270.00</td>
</tr>
<tr>
<td>Perdiem</td>
<td>$12.00</td>
<td>100</td>
<td></td>
<td>$6,000.00</td>
</tr>
</tbody>
</table>

Subtotal: $52,094.00
Expendables 10%: $3,125.64
Fuel 6%: $5,209.40
Subtotal: $60,429.04
OH/Profit 15%: $9,064.36
Total: $69,493.40

*NOTE: The above listed rates for equipment are subject to review on a case by case basis due to minimum rental durations and costs in some instances.
To: Edmund V. Most
From: Mike Risteski
Date: 8/27/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 154
Contract: Construction

Description of work to be performed: Company Switch Steel Support
This change is associated with the materials and labor of additional steel support for the company switch. The GMP drawings did not have sufficient steel support. The solution was developed to satisfy the structural needs for support and comply with the esthetics of the environment.

Justification: C - Other (please describe)

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000): Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $3,356.00
Owner Contingency Allow, Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: August 27, 2021

[Signatures and dates]

Approved:

[Signatures and dates]
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide additional Steel support for the company switch per RFI 223</th>
</tr>
</thead>
</table>

|------------------|-----------------|-------------------|----------------------|--------------|

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing</th>
<th>Trade Contractors - See Detailed Estimates</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
<th>Work Authorization is Requested By:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
</tr>
</thead>
</table>

Submitted By: Walter Lewis  Project Engineer  07/20/2021

Contractor: TURNER BROWNSTONE  07/20/2021  $ 3,358

Amount Requested

Requested Action:

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

Dated

$ 3,358

Amount Approved
<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
<th>RATE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>0.045000</td>
<td>@</td>
<td>$1,439</td>
</tr>
<tr>
<td>Profit</td>
<td>0.00732</td>
<td>@</td>
<td>$222.61</td>
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<tr>
<td>Builders Risk</td>
<td>0.25</td>
<td>@</td>
<td>$577.23</td>
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<tr>
<td>Subtotal</td>
<td></td>
<td></td>
<td>$3,089</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
<th>DESCRIPTION OF WORK</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (G.E.)</td>
<td>Conditions of Work</td>
</tr>
<tr>
<td>MATERIALS (M.E.)</td>
<td></td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (G.R.)</td>
<td></td>
</tr>
<tr>
<td>SELF PERFORMED LABOR</td>
<td></td>
</tr>
</tbody>
</table>

**General Summary of the Estimate**
International African American Museum

**Cor No.:** 154
<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**Total Work Subtotal:** $3,089.00

**Additional Scope of Work:**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td></td>
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</table>

**Additional Item:**

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
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</tbody>
</table>

**Total Work Subtotal:** $3,089.00

---

**Turner Estimates of Directs**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**International African American Museum**

---

**Cor No:** 154

**Trade Directs**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Total Work Subtotal:** $3,089.00
# PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**

1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209

**PROJECT:** International African American Museum  
Charleston, SC

**Attention:** Walt Lewis  
Phone: 919-788-2024  
FAX: -

**PROPOSED CHANGE ORDER #:** 40  
**REVISION #:** N/A  
**LSC CONTRACT #:** 19041  
**DATE:** 02/22/21

**DESCRIPTION**  
Added cost due to receipt of RFI #223 response dated 3/23/20, received 2/19/21. Furnish and install framing for electrical panel supports at Stair #3 and Stair #4. See attached Change Order from M&C Metals, LLC for added material and installation cost.

<table>
<thead>
<tr>
<th>M&amp;C Metal Works, LLC</th>
<th>Material</th>
<th>ADD</th>
<th>$1,936</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead &amp; Profit</td>
<td>Install</td>
<td>ADD</td>
<td>$572</td>
</tr>
<tr>
<td>Bonding</td>
<td></td>
<td>ADD</td>
<td>$376</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ADD</td>
<td>$31</td>
</tr>
</tbody>
</table>

**TAX** $174

**This change will ADD an additional 0 WORK DAYS to our scheduled scope of work.**

**Total This Change Order:** $3,089

---

**Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.**

**LSC Signature:**  
**Date:** 02/22/21

**DeWitt Friedermann**  
**e-mail:** DFriedermann@lyndonsteel.com  
**Prepared By:** Spencer Fleming

---

Please sign and return to E-mail noted above or via Facsimile (336-788-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items. If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.
DeWitt,

Please see change order cost for work associated with RFI 223. Please call me to discuss if any questions.

1. LABOR & MATERIAL TO ADD FRAMING AND OPENINGS AT MESH PANELS OF STAIR 3 AND STAIR 4 FOR ELECTRICAL PANEL (PER RFI 223).

ADD FOR MATERIAL ITEM #1 $1,936.00
ADD FOR INSTALL ITEM #1 $572.00

M&C Metal Works, LLC
By Greg Marlow
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/1/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 155
Contract: Construction

Description of work to be performed: Exterior Door Power
This change is associated with the materials and labor providing 120v power to the exterior doors for access control. In addition to the power the COR contains quotes for the patching and repair of the drywall system as well as painting of the affected areas.

Justification: C - Errors and Omissions

Attachments:

Owner Contingency Allow. Bal.:

Proposal Cost (not to exceed): $16,401.00
Time Extension Requested:

Time Extension Recommended:

Cost Estimate (Expected to Exceed $10,000):

Change Proposal Request from CMR with Detailed Backup: X

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 1, 2021

(Circle One)

(Circle One)

(Circle One)

Approved:

(Handwritten Signature)

(Handwritten Signature)

(Handwritten Signature)

(Handwritten Signature)

(Handwritten Signature)

(Handwritten Signature)
**COR #: 155**

**TURNER BROWNSTONE**  
14 Wharfside Street  
Charleston, SC

**Re:** International African American Museum  
**Exterior Door Hardware**

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>To Supply 120V power to the exterior doors.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Owner Directive</td>
</tr>
<tr>
<td>☐ Code / Regulatory</td>
</tr>
<tr>
<td>☐ Unforeseen Condition</td>
</tr>
<tr>
<td>☒ Design Issue</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ ROM Estimate of GR's &amp; Insurances</td>
</tr>
<tr>
<td>☒ ROM Estimate for Entire PCO</td>
</tr>
<tr>
<td>☒ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Evaluating Potential for Time Impact</td>
</tr>
<tr>
<td>☐ Evaluated - NO TIME IMPACT</td>
</tr>
<tr>
<td>☐ Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
</tr>
<tr>
<td>☐ Work Authorization is Requested By:</td>
</tr>
</tbody>
</table>

**Submitted By:**  
Contractor: **TURNER BROWNSTONE**  
07/29/2021  
$16,401  
Amount Requested

**Reviewed By:**  
Program Manager: **CUMMING**  
/ /  
Dated

**Approved By:**  
Owner: **City of Charleston**  
/ /  
$16,401  
Amount Approved
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
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<td>Precore</td>
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<td>Performance and Payment Bond</td>
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<td>Builders Risk</td>
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<td>Subrogated</td>
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<tr>
<td>CCP</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td><strong>$15,086</strong></td>
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**Trade Directs**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>General Requirements (G.R.) &amp; General Conditions (G.C.)</td>
<td>$15,086.00</td>
</tr>
</tbody>
</table>

**Directs Estimate of Work**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements (G.R.) &amp; General Conditions (G.C.)</td>
<td>$0</td>
</tr>
<tr>
<td>Self Performed Labor</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Note:**

General Summary of the Estimate

International African American Museum

**Cor No.:** 155
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>TRADE DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>To add power to the existing doors per design team request</td>
</tr>
<tr>
<td></td>
<td>Request to add all necessary for compress air reference</td>
</tr>
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PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

**SCOPE OF WORK:**
Electrified Door Hardware additional locations for power.

**Revision 1: Removes duplex devices and reduces quantity of locations to (13).**

Includes
Conduit and wire for (14) new locations for electrified hardware power.
(1) 120 volt, 20 amp device per location. (14) total.
No new homerun circuits or circuit breakers. Use existing circuits.

Excludes
Electrified door hardware.
Furnishing or installation of door hardware.
Cutting and patching of ceilings or walls.

Clarifications
Door hardware is hardwired.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 4 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_51>.

**Itemized Breakdown**

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<th>Qty</th>
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<td>692.15</td>
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ORIGINAL
# PROPOSED CHANGE ORDER

## Summary

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<td>SAFETY @ 3.5%</td>
<td>$52.00</td>
<td>1.72Hr</td>
<td>89.44</td>
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<tr>
<td>PM&amp;S</td>
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<td></td>
<td>376.63</td>
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<tr>
<td>VDC</td>
<td></td>
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<td>58.25</td>
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<tr>
<td>VEHICLES</td>
<td>$2.50</td>
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<td>145.63</td>
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<tr>
<td>CONSUMABLES</td>
<td>$0.30</td>
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<td>17.48</td>
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<td>HEALTH ADN HYGEINE</td>
<td>$1.00</td>
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<tr>
<td>SCISSOR LIFT</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td><strong>5,688.91</strong></td>
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<tr>
<td>Overhead</td>
<td>10.00%</td>
<td></td>
<td>568.89</td>
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<tr>
<td>Markup</td>
<td>5.00%</td>
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<td>312.89</td>
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<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td><strong>6,570.69</strong></td>
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<tr>
<td><strong>Final Amount</strong></td>
<td></td>
<td></td>
<td><strong>$6,636.40</strong></td>
</tr>
</tbody>
</table>

## CONDUCTOR CERTIFICATION

Name: 
Date: 
Signature: 

I hereby certify that this quotation is complete and accurate based on the information provided.

## CLIENT ACCEPTANCE

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCO #</td>
<td>53</td>
</tr>
<tr>
<td>Final Amount:</td>
<td>$6,636.40</td>
</tr>
</tbody>
</table>

Name: 
Date: 
Signature: 

Change Order #: 

I hereby accept this quotation and authorize the contractor to complete the above described work.
EXTERNAL EMAIL - Please Handle Cautiously

AJ,
See attached revised Door Hardware proposal.

Dale Winovich
Operations Manager
3215 Fortune Drive
North Charleston, SC 29418
M: 843-637-5873
dwinovich@watsonelec.com

George – during our walk with Sarah today lets show her how you plan to pipe the receptacle to power supply.

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 501 | Charlotte, NC 28209
Mobile 980.406.0287 | alodato@tcco.com

AJ,
I will have the quantity and receptacle revision to you today.
As far as the conduit length, if Sarah wants to come out an measure from the closest junction box to the door locations she’s welcome to. Her comment about the length is based on a guess. I walked the floor and came up with an average length from closest junction boxes to final locations.

Dale Winovich
Operations Manager
3215 Fortune Drive
North Charleston, SC 29418
M: 843-637-5873
dwinovich@watsonelec.com

From: LoDato, AJ - (CAR) <alodato@tcco.com>
Sent: Thursday, July 15, 2021 8:27 AM
To: Winovich, Dale <DWinovich@watsonelec.com>
Cc: Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: FW: Power to Door Hardware

Dale,

See the attached comments from ARUP regarding the electrified hardware change. I’d like to get this revised and resent soon if we could. Call me if you’d like to talk it through.

Thanks,

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 601 | Charlotte, NC 28209
Mobile 980.406.0287 | alodato@tcco.com

From: LoDato, AJ - (CAR)
Sent: Thursday, July 15, 2021 7:47 AM
To: LoDato, AJ - (CAR) <alodato@tcco.com>
Subject: FW: Power to Door Hardware

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 601 | Charlotte, NC 28209
Mobile 980.406.0287 | alodato@tcco.com

From: Sarah Aarons [mailto:sarah.aarons@arup.com]
Sent: Tuesday, July 13, 2021 11:29 AM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>; Mike Risteski <mristeski@ccorpusa.com>; Robert H. Faust <bfaust@ccorpusa.com>; Cook, Julie <jcook@moodynolan.com>
Cc: LoDato, AJ - (CAR) <alodato@tcco.com>; Davis, Richard F - (ATL) <rfdavis@tcco.com>
Subject: RE: Power to Door Hardware
All,

Please see attached Arup's comments on this proposed change order. The main comments are:
- The CO calls for a receptacle at each location, but the PS902 power supplies are hardwired
- Also, the quantity should be 13, not 14 (in the email list attached to the CO, one is a duplicate)
- The conduit and conductor lengths should be reviewed and reduced based on the proximity of the convenience receptacle circuits to be used.

Thanks,

Sarah Aarons

d +1 202 729 8239
m +1 202 779 3990

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Monday, July 12, 2021 9:36 AM
To: Mike Risteski <mristeski@ccorpusa.com>; Robert H. Faust <bfaust@ccorpusa.com>; Cook, Julie <jcook@moodynolan.com>; Sarah Aarons <sarah.aarons@arup.com>
Cc: LoDato, AJ - (CAR) <alodato@tcco.com>; Davis, Richard F - (ATL) <rfdavis@tcco.com>
Subject: RE: Power to Door Hardware

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

What is the status of this. I need to know how to proceed and is there official direction coming?

Please advise.

Thanks
Walt

From: Lewis, Walter - (CAR)
Sent: Tuesday, July 6, 2021 4:26 PM
To: Mike Risteski <mristeski@ccorpusa.com>; Robert H. Faust <bfaust@ccorpusa.com>; Cook, Julie <jcook@moodynolan.com>; Sarah Aarons <sarah.aarons@arup.com>
Cc: LoDato, AJ - (CAR) <alodato@tcco.com>; Richard F - Davis (ATL) <rfdavis@tcco.com>
Subject: Power to Door Hardware

As discussed in the OAC this afternoon attached is the info I am trying to get sorted out so I know what we need to do. Attached is the pricing for the Email on the 2nd page that outlines where we need to have power for the door hardware where we currently do not.

I believe this is the overall idea of what is going on.

Please confirm

1) Will this be a Bulletin
2) We probably need a meeting on this to make sure we are moving in the right direction.

Thanks
Walt

Walter Lewis | Project Manager
Turner Construction Company
Mobile: 704.936.6991
Email: wlewis@tcco.com

Electronic mail messages entering and leaving Arup business systems are scanned for viruses and acceptability of content.

This email has been scanned for email related threats and delivered safely by Mimecast.

This email has been scanned for email related threats and delivered safely by Mimecast.
Description of work to be performed: Irrigation Redesign - City of Charleston
This change is associated with the materials and labor of installing a newly redesigned irrigation system.
During original irrigation design had to change due to the surface area it had to be serviced.
Prior to installation the City of Charleston during a review noted significant changes to the components and layout of the system. This resulted in a complete redesign of the system.
The COR is the difference from the credit of the original system and the cost of the redesigned system.

Justification: A - Excess Capacity Reduction Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNT)

Cost Estimate (Expected to Exceed $10,000) Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $39,618.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended: 
Special Circumstances:
Consequence of Rejection:
Comments by Supervisor:

[Signature]

decision needed by:

[Signature]

Approved:

[Signature]
Date Submitted: August 16, 2021

To: Edmund Most
    City of Charleston

Re: International African American Museum

Irrigation Changes.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Irrigation changes per the City of Charleston</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>□ ROM Estimate of GR's &amp; Insurances □ ROM Estimate for Entire PCO □ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>□ Evaluating Potential for Time Impact □ Evaluated - NO TIME IMPACT □ Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
</tr>
<tr>
<td></td>
<td>□ Work has been Completed □ Work Has Commenced 8/or is Ongoing □ Work Authorization is Requested By:</td>
</tr>
</tbody>
</table>

Submitted By:      Contractor: TURNER BROWNSTONE 08/16/2021 $35,618
Walter Lewis    Project Engineer Dated

Reviewed By:       Program Manager: CUMMING

Approved By:       Owner: City of Charleston
Edmund Most Dated $35,618 Amount Approved
## Estimate Total

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>%</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>$1,143.98</td>
<td>3.25%</td>
<td>Overhead and Profit</td>
</tr>
<tr>
<td>#2</td>
<td>$147.49</td>
<td>0.40%</td>
<td>Directs</td>
</tr>
<tr>
<td>#3.1</td>
<td>$229.32</td>
<td>0.07%</td>
<td>Performance &amp; Payment Bond</td>
</tr>
<tr>
<td>#3.2</td>
<td>$279.52</td>
<td>0.84%</td>
<td>Bonds Risk</td>
</tr>
<tr>
<td>#3.3</td>
<td>$993.49</td>
<td>2.62%</td>
<td>Subguard</td>
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<td>#3.4</td>
<td>$819.05</td>
<td>2.56%</td>
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<td><strong>Subtotal</strong></td>
<td><strong>$3,227.62</strong></td>
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## Subtotal Trade Directs

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<tbody>
<tr>
<td>#2</td>
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</table>

**Cor No.**

General Summary of the Estimate
International African American Museum
**GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
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<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
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**TRADE DIRECTS**

<table>
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<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
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</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$32,187.00</td>
<td>1 LS</td>
<td>$32,187.00</td>
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<tr>
<td>Landscape Redesign</td>
<td>$575.00</td>
<td>1 LS</td>
<td>$575.00</td>
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<tr>
<td>Supply Power to the New Booster Pump</td>
<td>(Using Lighting Conduit and running new circuit for Pump)</td>
<td>$32,762</td>
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</table>

**DIRECT WORK SUBTOTAL** $32,762
<table>
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<tr>
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<th>Spec</th>
<th>QTY</th>
<th>Price</th>
<th>Total</th>
<th>Notes/Subs</th>
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<td>$52,379.40</td>
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<td>Credit Original Irrigation</td>
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<td>($20,192.40)</td>
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<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$32,187.00</strong></td>
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<td></td>
</tr>
</tbody>
</table>

Notes:
1) Pricing valid for 30 days
2) 1-1/2 HP Booster pump - 230 volt, single phase included
3) Power for pump provided by others
4) Hot box fiberglass pump cover included, special order has a lead time
5) Pricing does not include permit fees, water meter, tap fees and back flow, all provided by others
Submittal #32 84 00-9.0
32 84 00 - Planting Irrigation

Irrigation Redesign SD

SPEC SECTION: 32 84 00 - Planting Irrigation
CREATED BY:  
STATUS: Open
DATE CREATED: 08/04/2021
ISSUE DATE: 08/04/2021
REVISION: 0
RESPONSIBLE CONTRACTOR: The Greenery
RECEIVED FROM: Jared Holland
RECEIVED DATE: // SUBMIT BY: //
FINAL DUE DATE: 08/18/2021 LOCATION:
TYPE: Shop Drawing COST CODE:
APPROVERS: Bri'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)
BALL IN COURT: Bri'Shae Anderson (Turner Construction (CAR))
DISTRIBUTION: Walter Lewis (Turner Construction (CAR)), Bobby Langdale (Turner Construction (ATL)), Carlos Farro (Turner Construction (CAR))
, Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan), Bri'Shae Anderson (Turner Construction (CAR))
DESCRIPTION:
ATTACHMENTS:

SUBMITTAL WORKFLOW

<table>
<thead>
<tr>
<th>#</th>
<th>NAME</th>
<th>SUBMITTER/APPREVER</th>
<th>SENT DATE</th>
<th>DUE DATE</th>
<th>RETURNED DATE</th>
<th>RESPONSE</th>
<th>ATTACHMENTS</th>
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<td>1</td>
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<td>Submitter</td>
<td>8/18/2021</td>
<td>8/4/2021</td>
<td>Submitted</td>
<td></td>
<td>Irrigation redesign 8.4.pdf</td>
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<tr>
<td>2</td>
<td>Brad Stober</td>
<td>Submitter</td>
<td>8/18/2021</td>
<td>8/4/2021</td>
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<tr>
<td>3</td>
<td>Bri'Shae Anderson</td>
<td>Approver</td>
<td>8/4/2021</td>
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<tr>
<td>4</td>
<td>Julie Cook, AIA</td>
<td>Approver</td>
<td>8/18/2021</td>
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<td>Pending</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>5</td>
<td>Bernard Costantino</td>
<td>Approver</td>
<td>8/18/2021</td>
<td></td>
<td>Pending</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FOR HYDRAULIC CHALLENGES:

The device is used to fulfill with a designer.

To ensure with local codes or a different design and installation methods, follow water authority's approved code.

Install a backflow preventer to be installed.

Booster system to provide a boost.

Positive system operation.

Distance of 60 cm from 30 psi.

1/2 meter to provide a minimum.
Submittal #32 84 00-10.0
32 84 00 - Planting Irrigation

SPEC SECTION: 32 84 00 - Planting Irrigation
CREATED BY:

STATUS: Open
DATE CREATED: 08/17/2021

ISSUE DATE: 08/17/2021
REVISION: 0

RESPONSIBLE CONTRACTOR:
The Greenery
RECEIVED FROM: Jared Holland

RECEIVED DATE: //
SUBMIT BY: //

FINALE DUE DATE: 08/31/2021
LOCATION:

TYPE: Product Data
COST CODE:

APPROVERS: Brit'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)

BALL IN COURT:
Brit'Shae Anderson (Turner Construction (CAR))

DISTRIBUTION:
Mike Risteski (Cumming), Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan)

DESCRIPTION:

ATTACHMENTS:

SUBMITTAL WORKFLOW

<table>
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<tr>
<th>#</th>
<th>NAME</th>
<th>SUBMITTER/APPROVER</th>
<th>SENT DATE</th>
<th>DUE DATE</th>
<th>RETURNED DATE</th>
<th>RESPONSE</th>
<th>ATTACHMENTS</th>
<th>COMMENTS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Jared Holland</td>
<td>Submitter</td>
<td>8/31/2021</td>
<td>8/17/2021</td>
<td></td>
<td>Submitted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Brad Stober</td>
<td>Submitter</td>
<td>8/31/2021</td>
<td>8/17/2021</td>
<td></td>
<td>Pending</td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>Brit'Shae Anderson</td>
<td>Approver</td>
<td>8/17/2021</td>
<td>8/17/2021</td>
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<tr>
<td>4</td>
<td>Julie Cook, AIA</td>
<td>Approver</td>
<td>8/31/2021</td>
<td>8/31/2021</td>
<td></td>
<td>Pending</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Bernard Costantino</td>
<td>Approver</td>
<td>8/31/2021</td>
<td>8/31/2021</td>
<td></td>
<td>Pending</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GT IRRI-GATOR®
SELF-PRIMING CENTRIFUGAL PUMPS - 60 HZ

Booster Pump

GoULDS
WATER TECHNOLOGY
a xylem brand
Residential Water Systems

FEATURES
Self-Priming Design: Once pump is initially primed, filled with water, it will reprime when the water level rises above the end of the suction pipe.

Easy Servicability:
- Back pullout design allows disassembly of pump for service without disturbing piping.
- Two compartment motor for easy access to motor wiring and replaceable components.

Diffuser (Guides): Bolt down diffuser provides positive alignment with impeller. FDA compliant, injection molded, glass-filled engineered composite for durability and abrasion resistance.

Corrosion Resistant: Electrocoat paint process is applied inside and out, then baked on.

APPLICATIONS
Specifically designed for the following uses:
- Lawn sprinkling
- Irrigation
- Air conditioning systems
- Heat pumps
- Water transfer
- Dewatering

SPECIFICATIONS
Pump:
- Pipe connections: 1½'' NPT suction, 1½'' NPT discharge
- Capacities: to 110 gpm at 5 foot suction lift
- Heads: to 128 feet
- Reprime capabilities: to 25 feet suction lift
- Maximum water temperature: 140° F (60° C)
- Maximum working pressure: 125 psi
- Rotation: clockwise when viewed from motor end.

Motor:
- NEMA standard open drip proof
- 60 Hz, 3500 rpm
- Stainless steel shaft
- Three phase: 230/460 V. Overload protection must be provided in starter unit. Starter and heaters (3) must be ordered separately.
- Optional TEFC motors are available. See price book for order numbers.

Options:
- Add a "B" suffix for a silicon brass impeller, ex. GT07B
- Add an "S" suffix for an extended (higher) base.

Impeller: Standard - glass-filled, abrasion resistant engineered composite
Optional - Silicon brass is available (lead content is < .05%)

Casing: Cast iron, 4-bolt, back pullout design.
Openings for vacuum gauge and casing drain.

Powered for Continuous Operation: Pump ratings are within the motor manufacturer’s recommended working limits. Can be operated continuously without damage.

Mechanical Seal: Carbon/ceramic faces, Buna elastomers. 300 series stainless steel metal parts. Diaphragm prevents the seal from running dry.

AGENCY LISTINGS
Canadian Standards Association (except GT30_)
Class 6853 01 - Low Lead Content Certification

Suitable for outdoor use

<table>
<thead>
<tr>
<th>STANDARD ODP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>GT07</td>
</tr>
<tr>
<td>GT10</td>
</tr>
<tr>
<td>GT15</td>
</tr>
<tr>
<td>GT20</td>
</tr>
<tr>
<td>GT30</td>
</tr>
<tr>
<td>GT073</td>
</tr>
<tr>
<td>GT103</td>
</tr>
<tr>
<td>GT153</td>
</tr>
<tr>
<td>GT203</td>
</tr>
<tr>
<td>GT303</td>
</tr>
</tbody>
</table>

Add on "S" suffix for extended base. See back page.
Residential Water Systems

PERFORMANCE CURVE

METERS  FEET

TOTAL DYNAMIC HEAD (H)

GALLONS PER MINUTE (Q)

U.S. GPM

0  10  20  30  40

0  20  40

0  25  50

GT07  GT073  GT10  GT103  GT15  GT153  GT20  GT203  GT30  GT303

Single and three phase have same performance.

Performance ratings are in GPM.

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Model</th>
<th>PSI Discharge Pressure</th>
<th>Suction Lift in Feet</th>
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<td>GT07/</td>
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<td>GT073</td>
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<td>GT203</td>
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<td>80</td>
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<tr>
<td></td>
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</table>

Self-Priming (After Initial Prime)

Water recirculates, but during re-priming operation only.
Air is exhausted from suction line through discharge pipe.

Dimensions

Arrows show flow of water after all air has been exhausted from suction line.
# BASE DIMENSIONS AND WEIGHTS

<table>
<thead>
<tr>
<th>Model</th>
<th>GT07</th>
<th>GT10</th>
<th>GT15</th>
<th>GT20</th>
<th>GT30</th>
<th>GT073</th>
<th>GT103</th>
<th>GT153</th>
<th>GT203</th>
<th>GT303</th>
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<tbody>
<tr>
<td>HP</td>
<td>¾</td>
<td>1</td>
<td>1½</td>
<td>2</td>
<td>3</td>
<td>¾</td>
<td>1</td>
<td>1½</td>
<td>2</td>
<td>3</td>
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<tr>
<td>Length &quot;L&quot;</td>
<td>19¾</td>
<td>19¼</td>
<td>21½</td>
<td>20½</td>
<td>21¾</td>
<td>19</td>
<td>19¾</td>
<td>20½</td>
<td>20½</td>
<td>21¾</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Height</td>
<td></td>
<td></td>
<td>9¼ (13¼ with &quot;5&quot; Base)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Weight (lbs.)</td>
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<td>65</td>
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<td>49</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Three</td>
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</table>

(All dimensions are in inches and weights in lbs. Do not use for construction purposes.)

## DIMENSIONS

### TALL STYLE BASE

![Tall Style Base Diagram](image-url)

### STANDARD BASE
for ¾ and 1 hp

![Standard Base Diagram for ¾ and 1 hp](image-url)

### STANDARD BASE
for 1½ hp and up

![Standard Base Diagram for 1½ hp and up](image-url)

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Xylem Inc.
2881 East Bayard Street Ext., Suite A
Seneca Falls, NY 13148
Phone: (866) 325-4210 • Fax: (888) 322-5877
www.xylem.com/gouldswatertecnology

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Xylem Inc, or one of its subsidiaries.
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### PUMP GUARD® VENTED PROTECTIVE INSULATED/ NO HEAT ENCLOSURE

**SPECIFICATION:**
The enclosure, manufactured to ASSE 1060 specifications, shall be constructed of either of three (3) different materials:

1. Fiberglass: min. 3/16” thick Thixotropic polyester resin reinforced with fiberglass strand, protected with 18 to 20 mils of UV inhibited isophthalic polyester gel coat
2. Aluminum sheet (.35" thick Or .125” thick)
   - Standard thickness of .35” thick only available with insulation
   - Optional heavy duty .125” thick available with or without insulation
3. Polyethylene: min 1/8” thick UV stabilized LDPE low density hexene copolymer resin

Enclosure shall utilize one of four (4) different designs:

1. Lockable flip top design, for maintenance access through lid without removal of the entire unit.
2. Fiberglass molded product shall utilize an overlapping lid seam design for weatherproofing and vandal resistance.
3. Aluminum: panel-access doors or folding roof and front design
4. Fiberglass: panel construction with lift up roof and both front and rear access doors (Designer Series).
5. One-piece drop over (special order only).

Insulation shall be min 1” thick (R3) unit-cellular, non-wicking, polyisocyanate foam. Drains shall be installed for water evacuation and be designed for one way exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ (where applicable) from within the enclosure with steel anchors and be lockable for security purposes.

Inlet and outlet vents will be installed, sized in accordance with the requirements for the equipment contained therein. Thermostatically controlled exhaust fans are a factory installed option.

The unit shall prove a minimum of 5% sound reduction at eight (8) feet with vents open and 15% reduction with vents closed.

### VALVE GUARD with Heat

<table>
<thead>
<tr>
<th>Valve Guard w/ Heat</th>
<th>Old Valve Guard w/ Heat</th>
<th>Access Type</th>
<th>Inside Width</th>
<th>Inside Length</th>
<th>Inside Height</th>
<th>Shipping Weight</th>
<th>Pad Size</th>
<th>GLASS PAD</th>
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### OPTIONS

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<td>OTHER</td>
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**Members Of:**

- ASCP
- JIC
- ISC
- bpma
- NFPA

---

**Job Name**

**Contractor**

**Job Location**

**Approval**

**Date**

**Engineer**

**Contractor's P.O. No.**

**Approval**

**Date**

**Representative**
ESP-ME3 Modular Controller

Advanced Residential Irrigation Control

The ESP-ME3 builds on the station modularity and easy programming of the ESP-Me WiFi ready controller and adds flow sensor compatibility for accessible, reliable system control.

Powerful Accessories
Smart weather adjustments and flow monitoring available through the LNK™ WiFi module and a wired flow sensor.

Simple to Use
Reduced dial positions and a back-lit screen make programming at the controller easy to understand and explain.

Flexible Installation
Indoor or outdoor use and expandable up to 22 stations.
Simplified Dial Programming
- Large text color-coded dial positions make it easier to understand and explain programming.
- Easy-grip dirt-safe dial for use when digging and testing replacement irrigation parts.
- Matched programming to the ESP-TM2 controller for reduced training.

Easy to Read Screen
- Back lit for easy reading in dark garages or sheds.
- Large 3" size with scrolling words and simple icons for fast recognition.

Built for Professionals
- Industry-leading 3 Year Trade Warranty.
- Weather-resistant locking door and factory-installed power plug for indoor or outdoor installation.
- Configurable to 22 stations with additional 3 or 6 station modules for future irrigation needs.

Controller Accessories
- Flow Monitoring
  Compatible with multiple sizes and makes of wired flow sensors for flow monitoring and notifications to save water and protect against property damage.
- LNK WiFi Ready
  Irrigation controller mobile access for troubleshooting, custom settings and smart home integrations for voice control.
- Weather-Based Programming
  EPA WaterSense certified when used with the LNK WiFi Module and a rain sensor for up to 30% water savings.
TURN OFF THIS INS
TURN OFF ONE OF TH

SELECTING THE MOD

1. Modular Hybrid Controller:
RAIN BIRD ESP-ME3

2. Inside Wall Mount
1-1/4" PVC SCH 40 CONDUIT

3. Valves
Wires To Remote Control

4. Standard Module For
4-Station Controllers

5. Optional Module For
6-Station Controllers

6. Standard 120 V Plug

7. Transformer
120 VAC, 60 Hz Internal
WR2 Series Wireless Rain/Freeze Sensors
Superior Signal Reliability and Ease of Use

The Rain Bird Wireless Rain Sensor is designed for 24 VAC residential and commercial irrigation systems. This high-quality product saves water and extends irrigation system life by automatically sensing precipitation and interrupting irrigation during rain and low temperature events.

Programming logic can suspend irrigation using the "Quick Shut Off" feature or when the amount of rainfall exceeds the rainfall set point. Likewise, the Wireless Rain / Freeze Sensor will suspend irrigation when the system reaches a programmed low temperature set point.

Features & Benefits

- Enhanced antenna array provides superior signal reliability that overcomes most line-of-sight obstructions
- Sensor signal strength indicator enables one person set up, reducing installation time
- Convenient adjustment and monitoring of rain or freeze settings at the controller interface
- Simple battery replacement requiring no tools or need to disassemble sensor
- Highly intuitive icon-driven controller interface simplifies programming
- Easy to install, self-leveling sensor bracket mounts to flat surfaces or rain gutters
- Antennas concealed within the units for greater visual appeal and product robustness
- "Quick Shut Off" interrupts active irrigation cycle during a rain event

Electrical Specifications

- Application: suitable for use with 24 VAC controllers (with or without pump start / master valve)
- Electrical rating suitable for use with up to six 24 VAC 7VA solenoids plus an additional master valve or pump start that does not exceed 53VA
- Controller Interface Wire: 30' (76 cm) length of #22 gauge (0.64 mm) UV resistant extension wire
- UL, cUL, CE, C-Tick, and WEEE certifications
- FCC approved spread spectrum 2 way radio transceivers with FCC Class B approvals
- Signal transmission distance of 700' Line of Sight
- Battery life: four or more years under normal operating conditions
- 6 KV surge / lighting protection

Mechanical Properties

- Adjustable rainfall settings from 1/8" – 1/2" (3 – 13 mm)
- Adjustable low temperature settings from 33°F – 41°F (0.5° – 5°C)
- Three irrigation modes to select: Programmed, Suspend Irrigation for 72 hours, Override sensor for 72 hours
- "Quick Shut Off" suspends active irrigation cycle within approximately two minutes
- High-grade, UV resistant polymer units resist harmful environmental affects

Dimensions

WR2 Controller Interface

- Width: 3.1" (7.9 cm)
- Length: 6.8" (17.2 cm)
- Depth: 1.7" (4.3 cm)
- Distance between Mounting Holes: 6.25" (15.9 cm)

How to Specify/Order

WR2 Sensor Assembly

- Sensor Length: 5.8" (14.7 cm)
- Attachment Bracket Length: 4.6" (11.7 cm)
- Distance between Mounting Holes: 4.25" (10.8 cm)
- Horizontal displacement (bracket + fixed ball arm): 5.5" (14.0 cm)

Replacement or Spare Parts

- WR2 Battery - #6510095
- WR2 Disk Assembly - #6378105

Models

<table>
<thead>
<tr>
<th>Product Models</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR2-RC</td>
<td>Rain Combo</td>
</tr>
<tr>
<td>WR2-RFC</td>
<td>Rain/Freeze Combo</td>
</tr>
<tr>
<td>WR2-RS</td>
<td>Rain Sensor Only</td>
</tr>
<tr>
<td>WR2-RFS</td>
<td>Rain/Freeze Sensor Only</td>
</tr>
<tr>
<td>WR2-RFI</td>
<td>Rain/Freeze Controller Interface Only</td>
</tr>
</tbody>
</table>
Specifications

The wireless rain or rain/ freeze sensor shall employ an electro-mechanical actuating mechanism designed to cause a circuit interrupt if programmable low temperature or rainfall set points are satisfied. Satisfied set points cause the device to temporarily suspend the irrigation controller schedule. As environmental conditions return to a state that no longer satisfy the low temperature or rainfall set points, the controllers normal irrigation schedule is resumed. The sensor shall be wired to normally closed (N.C.) controllers – in series with the valve common, or alternately, wires shall be inserted into the appropriate controller sensor terminal ports.

The device shall be of rugged construction to withstand the elements, including exposure to sunlight and precipitation. Antennas shall be concealed within the sensor and controller interface to improve aesthetics and product robustness.

The device shall be used with 24VAC controllers and shall be of sufficient capacity to be used with a maximum of six 24VAC 7VA solenoids plus an additional master valve or pump start that does not exceed 53VA.

The wireless rain sensor shall incorporate a provision that allows the installer to select from several rainfall or low temperature settings that can be programmed through the use of icons on a controller interface. A sensor LED shall communicate signal strength during the installation process.

The Rain Bird Rain or Rain / Freeze Sensor shall be manufactured by Rain Bird Corporation, Glendora, California.
PGA Series Valves
Versatility at an affordable price.

Whether the job calls for a globe or angle valve, PGA Series valves are the right choice. Loaded with features, these heavy-duty PVC valves are economical, easy to install and built to withstand constant 150 psi (10.35 bar) pressure and 2 to 150 gpm (0.45 to 34.05 m³/h; 7.8 to 568 l/m) flows.

The PGA Series from Rain Bird – built to last… and last!

Features
- Globe and angle configuration for flexibility in design and installation
- PVC and glass reinforced nylon construction
- Filtered pilot flow to resist debris and clogging of solenoid ports
- Slow closing to prevent water hammer and subsequent system damage
- Manual internal bleed operates the valve without allowing water into the valve box
- One-piece solenoid design with captured plunger and spring for easy servicing
- Prevents loss of parts during field service
- Non-rising flow control handle adjusts water flows as needed
- Normally closed, forward flow design

Options (order separately)
- Accommodates optional, field installed PRS-D pressure regulating module
- Optional purple flow control handle for easy identification of non-potable water system
  - PGA-NP-HAN (1" and 1-1/2")
  - PGA-NP-HAN2 (2")
- Accepts latching solenoid for use with Rain Bird battery-operated controllers up to 150 psi (10.35 bar)
- Compatible with ESP-LXD decoders

Operating Range
- Pressure: 15 to 150 psi (1.04 to 10.35 bar)
- Flow: 2 to 150 gpm (0.45 to 34.05 m³/h; 7.8 to 568 l/m)
- Flow with PRS-D: 5 to 150 gpm (1.14 to 34.05 m³/h; 19.2 to 568 l/m)
- Water Temperature: up to 110°F (43°C)
- Ambient Temperature: up to 125°F (52°C)

Electrical Specifications
- Power: 24 VAC 50/60 Hz (cycles/sec) solenoid
- Inrush current: 0.41 A (9.84 VA) at 60 Hz
- Holding current: 0.14 A (3.43 VA) at 60 Hz
- Coil resistance: 30-39 Ohms

Models
- 100PGA 1" (26/34)
- 150PGA 1-1/2" (40/49)
- 200PGA 2" (50/60)
- BSP threads available; specify when ordering.

Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>Height</th>
<th>Length</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>100PGA</td>
<td>7-7/8&quot; (18.4 cm)</td>
<td>5-5/8&quot; (14.0 cm)</td>
<td>3-5/8&quot; (8.3 cm)</td>
</tr>
<tr>
<td>150PGA</td>
<td>8&quot; (20.3 cm)</td>
<td>6-3/4&quot; (17.2 cm)</td>
<td>3-5/8&quot; (8.9 cm)</td>
</tr>
<tr>
<td>200PGA</td>
<td>10&quot; (25.4 cm)</td>
<td>7-3/8&quot; (19.7 cm)</td>
<td>5&quot; (12.7 cm)</td>
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</table>

Note: The PRS-D option adds 2" (5.1 cm) to valve height.

PGA Series Valve Pressure Loss (psi)

<table>
<thead>
<tr>
<th>Flow gpm</th>
<th>100- PGA Globe</th>
<th>100- PGA Angle 1&quot;</th>
<th>150- PGA Globe 1-1/2&quot;</th>
<th>150- PGA Angle 1-1/2&quot;</th>
<th>200- PGA Globe 2&quot;</th>
<th>200- PGA Angle 2&quot;</th>
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<tbody>
<tr>
<td>1</td>
<td>5.3</td>
<td>5.0</td>
<td>5.6</td>
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<td>2</td>
<td>10.7</td>
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<td>5</td>
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PGA Series Valve Pressure Loss (bar)

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<tr>
<th>Flow m³/h</th>
<th>Flow l/min</th>
<th>100- PGA Globe 2.5cm</th>
<th>100- PGA Angle 2.5cm</th>
<th>150- PGA Globe 3.8cm</th>
<th>150- PGA Angle 3.8cm</th>
<th>200- PGA Globe 5.1cm</th>
<th>200- PGA Angle 5.1cm</th>
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<td>0.59</td>
</tr>
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<td>21</td>
<td>350</td>
<td>0.66</td>
<td>0.63</td>
<td>0.66</td>
<td>0.63</td>
<td>0.66</td>
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<td>400</td>
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<td>0.67</td>
<td>0.70</td>
<td>0.67</td>
<td>0.70</td>
<td>0.67</td>
</tr>
<tr>
<td>27</td>
<td>450</td>
<td>0.74</td>
<td>0.71</td>
<td>0.74</td>
<td>0.71</td>
<td>0.74</td>
<td>0.71</td>
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<td>30</td>
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<td>0.78</td>
<td>0.75</td>
<td>0.78</td>
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</tr>
<tr>
<td>34</td>
<td>568</td>
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<td>0.80</td>
<td>0.83</td>
<td>0.80</td>
<td>0.83</td>
<td>0.80</td>
</tr>
</tbody>
</table>

Notes
1) Loss values are with flow control fully open.
2) PRS-D module recommended for all flow ranges.
3) Rain Bird recommends flow rates in the supply line not to exceed 7.5 ft/sec. (2.29 m/s) in order to reduce the effects of water hammer.

PGA Series Temperature Rating

<table>
<thead>
<tr>
<th>Water Temp.</th>
<th>Continuous Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>73°F</td>
<td>150 psi (10.40 bar)</td>
</tr>
<tr>
<td>80°F</td>
<td>132 psi (9.10 bar)</td>
</tr>
<tr>
<td>90°F</td>
<td>112 psi (7.70 bar)</td>
</tr>
<tr>
<td>100°F</td>
<td>93 psi (6.40 bar)</td>
</tr>
<tr>
<td>110°F</td>
<td>75 psi (5.20 bar)</td>
</tr>
</tbody>
</table>

How To Specify

<table>
<thead>
<tr>
<th>Size</th>
<th>PGA</th>
<th>PRS-D</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1&quot;</td>
<td>26/34</td>
</tr>
<tr>
<td>150</td>
<td>1-1/2&quot;</td>
<td>40/49</td>
</tr>
<tr>
<td>200</td>
<td>2&quot;</td>
<td>50/60</td>
</tr>
</tbody>
</table>

Note: Valve and PRS-D module must be ordered separately. For non-U.S. applications, it is necessary to specify NPT or BSP thread type.
Specifications

The electric remote control valve shall be a
normally closed 24 VAC 50/60 Hz (cycles/sec)
solenoid actuated globe/angle pattern design.
The valve pressure rating shall not be less than
150 psi (10.35 bar). The valve shall have the
following characteristics (circle one):

Flow rate: _______ gpm m³/h l/m
Pressure loss not to exceed: _______ psi bar

The valve body and bonnet shall be construct-
ed of high-impact, water-resistant PVC for the
body and glass-filled nylon for the bonnet with
stainless steel screws.

The valve shall have manual open/close con-
trol (internal bleed) for manual opening and
closing of valve without electrically energizing
the solenoid. The valve's internal bleed shall
prevent flooding of the valve box.

The valve shall house a fully-encapsulated,
one-piece solenoid. The solenoid shall have a
captured plunger with a removable retainer
for easy servicing, and a leverage handle for
easy turning. This 24 VAC 50/60 Hz solenoid
shall open with 19.6 VAC minimum at 150 psi
(10.35 bar). At 24 VAC, average inrush current
shall not exceed 0.41 amps. Average holding
current shall not exceed 0.28 amps.

The valve shall have a flow control stem for
accurate manual regulation and/or shut off of
outlet flow. The valve must open or close in
less than 1 minute at 150 psi (10.35 bar), and
less than 30 seconds at 20 psi (1.38 bar).

The valve construction shall provide for all
internal parts to be removable from the top
of the valve without disturbing the valve
installation. The body shall have a removable
O-ringed plug for installation in either globe or
angle configuration.

Optional Feature Specification

PRS-D Pressure Regulating Module
100PGA-PRS-D, 150PGA-PRS-D,
200PGA-PRS-D

When so indicated on the design, the electric
remote control valve shall have a pressure
regulating module (PRS-D) capable of regulat-
ing outlet pressure between 15 and 100 psi
±3 psi (1.04 and 6.90 bar ±0.21 bar)).

The PRS-D module shall have an adjusting
knob for setting pressure and Schrader valve
connection for monitoring pressure. The pres-
sure shall be adjustable from the PRS-D when
the valve is internally manually bled or electro-
ically activated.

Non-Potable Flow Control Handle
PGA-NP-HAN1 - Fits 1” and 11/2”
PGA-NP-HAN2 - Fits 2”

When so indicated on the design, the valve
shall have a purple flow control handle to
indicate to the user that non-potable water
is being used. There shall be no difference
between the black and purple handles except
for the color.
To maintain consistent performance and reduce water waste, the PRS30 is pressure-regulated to an optimal pressure of 30 PSI.

**KEY BENEFITS**
- Industry's strongest spray body for years of reliable performance
- Pressure-regulated to 30 PSI for optimal nozzle performance
- Brown cap for easy field identification
- Co-molded wiper seal made from chemical- and chlorine-resistant materials
- Innovative seal design prevents cap-to-body leaks, even with a loose cap
- FloGuard technology option eliminates water waste in the event of a missing nozzle

**ADDITIONAL FEATURES**
- Directional flush plug design for cleaner installation
- Interchangeable components for easier servicing, retrofits, and upgrades
- Heavy-duty spring for consistent riser retraction
- Check valve option eliminates low-head drainages
- Compatible with all female-threaded nozzles

**OPERATING SPECIFICATIONS**
- Operational pressure range: 15 to 100 PSI
- Warranty period: 5 years

**FACTORY-INSTALLED OPTIONS**
- Check valve available for 4", 6", and 12" models (up to 14' of elevation)
- Reclaimed water identification
- FloGuard technology available for check valve models

**USER-INSTALLED OPTIONS**
- Check valve (up to 14' of elevation; P/N 437400SP)
- Reclaimed water ID cap (P/N 458560SP)
- Snap-on reclaimed cover (P/N PROS-RC-CAP-SP)
- Shut-off cap (P/N 213600SP)
- Shut-off nozzle (P/N 916400SP)

**PRS30 - SPECIFICATION BUILDER: ORDER 1 + 2 + 3**

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature Options</th>
<th>Specialty Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>(blank)</td>
<td>No option</td>
<td>R = Factory-installed reclaimed body cap</td>
</tr>
<tr>
<td>CV (Pop-up models only)</td>
<td>Factory-installed drain check valve</td>
<td>F = FloGuard technology</td>
</tr>
<tr>
<td>F = FloGuard technology with reclaimed body cap</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PRS30 (SIDE INLET) MODELS**

**Model**
- PROS-00-PRS30 = 30 PSI regulated 4" pop-up
- PROS-04-PRS30 = 30 PSI regulated 6" pop-up
- PROS-06-PRS30 = 30 PSI regulated 8" pop-up
- PROS-12-PRS30 = 30 PSI regulated 12" pop-up

**Examples:**
- PROS-06-SI-PRS30 = 6" pop-up with side inlet regulated at 30 PSI
- PROS-06-PRS30-CV = 6" pop-up regulated at 30 PSI, drain check valve
- PROS-12-PRS30-CV-F-R = 12" pop-up regulated at 30 PSI, drain check valve, and FloGuard technology with reclaimed body cap

**Compatible with:**
- Pro Adjustable Nozzles Page 63
- Pro-Spray Fixed Arc Nozzles Page 66
PRSA40

To optimize MP Rotator performance, the Pro-Spray PRSA40 is pressure-regulated to 40 PSI.

KEY BENEFITS
- Industry’s strongest spray body for years of reliable performance
- Pressure-regulated to 40 PSI for the MP Rotator
- Gray cap for easy field identification
- Co-molded wiper seal made from chemical- and chlorine-resistant materials
- Innovative seal design prevents cap-to-body leaks, even with a loose cap
- FloGuard technology option eliminates water waste in the event of a missing nozzle

ADDITIONAL FEATURES
- Directional flush plug design for cleaner installation
- Interchangeable components for easier servicing, retrofits, and upgrades
- Heavy-duty spring for consistent riser retraction
- Check valve option eliminates low-head drainage

OPERATING SPECIFICATIONS
- Operational pressure range: 15 to 100 PSI
- Warranty period: 5 years

FACTORY-INSTALLED OPTIONS
- Check valve available for 4", 6", and 12" models (up to 14' of elevation)
- Reclaimed water identification
- FloGuard technology available for pop-up models

USER-INSTALLED OPTIONS
- Check valve (up to 14' of elevation; P/N 437400SP)
- Reclaimed water ID cap (P/N 458562SP)
- Snap-on reclaimed cover (P/N PROS-RC-CAP-SP)
- Shutoff cap (P/N 213600SP)
- Shutoff nozzle (P/N 916400SP)

PRSA40 Reclaimed
PRSA40 models include optional factory-installed purple reclaimed caps

PRO-SPRAY PRS40 - SPECIFICATION BUILDER: ORDER 1 + 2 + 3

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature Options</th>
<th>Specialty Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROS-00-PRS40</td>
<td>40 PSI regulated shrub adapter</td>
<td>(blank) = No option</td>
</tr>
<tr>
<td>PROS-04-PRS40</td>
<td>40 PSI regulated 4&quot; pop-up</td>
<td>CV = Factory-installed drain check valve</td>
</tr>
<tr>
<td>PROS-06-PRS40</td>
<td>40 PSI regulated 6&quot; pop-up</td>
<td>(Pop-up models only)</td>
</tr>
<tr>
<td>PROS-12-PRS40</td>
<td>40 PSI regulated 12&quot; pop-up</td>
<td>F = FloGuard technology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F+R = FloGuard technology with reclaimed body cap</td>
</tr>
</tbody>
</table>

PRO-SPRAY PRS40 (SIDE INLET) MODELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROS-06-SI-PRS40</td>
<td>40 PSI regulated 6&quot; pop-up with side inlet</td>
</tr>
<tr>
<td>PROS-12-SI-PRS40</td>
<td>40 PSI regulated 12&quot; pop-up with side inlet</td>
</tr>
</tbody>
</table>

Examples:
- PROS-06-SI-PRS40 = 6" pop-up with side inlet regulated at 40 PSI
- PROS-06-PRS40-CV = 6" pop-up regulated at 40 PSI, drain check valve
- PROS-12-PRS40-CV-F+R = 12" pop-up regulated at 40 PSI, drain check valve, and FloGuard technology with reclaimed body cap

Compatible with:

MP Rotator

Visit hunterindustries.com
BUBBLERS

Ensure consistent flow regardless of pressure with above-ground, pressure-compensating bubblers.

KEY BENEFITS
- Pressure-compensating for constant water flow at any pressure
- Designed for deep watering of planted areas
- ½" threaded inlet for easy installation on a ½" riser
- Warranty period: 2 years

PCB PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow GPM</th>
<th>Pattern Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>0.25</td>
<td>Trickle</td>
</tr>
<tr>
<td>50</td>
<td>0.50</td>
<td>Trickle</td>
</tr>
<tr>
<td>10</td>
<td>1.00</td>
<td>Umbrella</td>
</tr>
<tr>
<td>20</td>
<td>2.00</td>
<td>Umbrella</td>
</tr>
</tbody>
</table>

Notes:
Typical spacing: 2' to 4'. Flows shown for pressures between 15 and 70 PSI.

AFB PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow GPM</th>
<th>Pattern Type</th>
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<tbody>
<tr>
<td>AFB</td>
<td>&lt; 2.0</td>
<td>Trickle/ Umbrella</td>
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</tbody>
</table>

PRESSURE-COMPENSATING BUBBLERS

PCB

PCB-R

ADJUSTABLE FLOOD BUBBLER

AFB
Xeri-Bug Emitter Specifications and Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Type/Color</th>
<th>Nominal Flow ( \text{gph} )</th>
<th>Filtration Required mesh</th>
</tr>
</thead>
<tbody>
<tr>
<td>XB-05PC</td>
<td>Barb/Blue</td>
<td>0.5</td>
<td>200</td>
</tr>
<tr>
<td>XB-10PC</td>
<td>Barb/Black</td>
<td>1.0</td>
<td>150</td>
</tr>
<tr>
<td>XB-20PC</td>
<td>Barb/Red</td>
<td>2.0</td>
<td>150</td>
</tr>
<tr>
<td>XB-05PC1032</td>
<td>10-32T/Blue</td>
<td>0.5</td>
<td>200</td>
</tr>
<tr>
<td>XB-10PC1032</td>
<td>10-32T/Black</td>
<td>1.0</td>
<td>150</td>
</tr>
<tr>
<td>XB-20PC1032</td>
<td>10-32T/Red</td>
<td>2.0</td>
<td>150</td>
</tr>
<tr>
<td>XBT-10PC</td>
<td>1/2&quot; FPT/Black</td>
<td>1.0</td>
<td>150</td>
</tr>
<tr>
<td>XBT-20PC</td>
<td>1/2&quot; FPT/Black</td>
<td>2.0</td>
<td>150</td>
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Xeri-Bug Emitter Performance

<table>
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<tr>
<th>Model</th>
<th>Inlet Type/Color</th>
<th>Nominal Flow ( \text{l/h} )</th>
<th>Filtration Required micron</th>
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</thead>
<tbody>
<tr>
<td>XB-05PC</td>
<td>Barb/Blue</td>
<td>1.89</td>
<td>75</td>
</tr>
<tr>
<td>XB-10PC</td>
<td>Barb/Black</td>
<td>3.79</td>
<td>100</td>
</tr>
<tr>
<td>XB-20PC</td>
<td>Barb/Red</td>
<td>7.57</td>
<td>100</td>
</tr>
<tr>
<td>XB-05PC1032</td>
<td>10-32T/Blue</td>
<td>1.89</td>
<td>75</td>
</tr>
<tr>
<td>XB-10PC1032</td>
<td>10-32T/Black</td>
<td>3.79</td>
<td>100</td>
</tr>
<tr>
<td>XB-20PC1032</td>
<td>10-32T/Red</td>
<td>7.57</td>
<td>100</td>
</tr>
<tr>
<td>XBT-10PC</td>
<td>1/2&quot; FPT/Black</td>
<td>3.79</td>
<td>100</td>
</tr>
<tr>
<td>XBT-20PC</td>
<td>1/2&quot; FPT/Black</td>
<td>7.57</td>
<td>100</td>
</tr>
</tbody>
</table>

Installation Option 1
Using a Xerisizer Tool, insert an emitter directly into a 1/4" or 1/4" drip tubing or between dripline emitters as needed.

Installation Option 2
For more precise water placement, use 1/4" distribution tubing, a 1/4" tubing stake, and a bug cap.

Installation Option 3
For precise water placement, a barb connector can be punched into distribution tubing. The emitter is then placed at the end of the 1/4" distribution tubing. NOTE: should the emitter become dislodged, unregulated flow will occur.

Installation Option 4
The Xeri-Bug(TM) provides a centralized location for up to eight emitters. A mix of Xeri-Bug and/or PC emitters can be used to provide the flow rates needed for different plant materials. Tentacles of 1/4" distribution tubing, 1/4" tubing stakes, and bug caps allow for precise water placement.

Installation Option 5
The 6 Outlet Manifold provides a centralized water distribution connection for up to six emission devices. Connect the 1/4" distribution tubing to one of the outlets. Use a 1/4" tubing stake to ensure precise water placement. The emitter is placed on the end of the 1/4" distribution tubing to regulate the water flow. NOTE: should the emitter become dislodged, unregulated flow will occur.

* Preferred installation option, which provides flow regulation at the source.
To: Edmund V. Most  
From: Mike Risteski  
Date: 10/28/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 157  
Contract: Construction  

Description of work to be performed: Waterproofing & Brick Stucco  
This change is associated with the materials and labor of waterproofing all expansion joints on the building.  
The drawings call for a continuous air barrier to be installed on the building, however the details were not very clear.  
The building envelope consultant recommended that all 63 expansion joints would need to be sealed.  

Justification:  C - Errors and Omissions  

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed): $43,104.00  
Owner Contingency Allow. Bal.  

Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: October 28, 2021  

(Circle One)  

(No) (Yes)  

Michael Risteski, Cumming Corp.  

(Circle One)  

(No) (Yes)  

Rick Holt, Cumming Corp.  

(Circle One)  

(No) (Yes)  

Robert Faust, Cumming Corp.  

(Circle One)  

(No) (Yes)  

Edmund V. Most, City of Charleston  

(Circle One)  

(No) (Yes)  

Bernard Costantino, Moody Nolan  

(Circle One)  

Robert Launher
Date Submitted:  August 15, 2021

To:  Edmund Most  
City of Charleston

Re:  International African American Museum

Rework Stucco Ceiling with new detail and add Waterproofing around Tube Steel

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To add waterproofing around the tube and to add sheathing back to change brick to stucco detail under the building.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
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<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By:  [Signature]  
Contractor:  TURNER BROWNSTONE  
08/15/2021  
Dated  

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Reviewed By:  Program Manager:  CUMMING  
Dated  

Owner:  City of Charleston  
Dated  

Amount Requested  

Amount Approved  
## Estimate Totals

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
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<td>3.25%</td>
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<tr>
<td>Precore</td>
<td>$0.00</td>
<td>0.450%</td>
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<tr>
<td>Performance and Payment Bond</td>
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<td>Builders Risk</td>
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<td>Subcontract</td>
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<tr>
<td>CP</td>
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<td>2.50%</td>
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## Subtotal Trade Directs

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<thead>
<tr>
<th>Description of Work from Direct Estimate of MaterialE (G.E.)</th>
<th>$0.00</th>
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</thead>
<tbody>
<tr>
<td>General Requirements (G.R.E.G)</td>
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<tr>
<td>General Requirements (G.R.E.G)</td>
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<tr>
<td>Self-Performed Labor</td>
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<tr>
<td><strong>Subtotal Trade Directs</strong></td>
<td><strong>$0</strong></td>
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</tbody>
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**Cor No.: 157**

General Summary of the Estimate

International African American Museum

**Turner**
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>TRADE DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

**GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)**

<table>
<thead>
<tr>
<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>UNIT</th>
<th>TOTAL</th>
<th>DIRECT WORK SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COR N°: 157</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
General note: Confirm stud track does not bridge any expansion joints

General note: Rough steel to be ground down for smooth adhesion

Added silicone sheet with belly at expansion between tube steel for expansion (sides and bottom, continuous, meeting emseal above on both sides)

Expansion Joint View from Outside Building Looking at Elevation
Expansion Joint View from Under Building Looking Out (Spray Insulation not shown for clarity - see next page)
Expansion Joint View from Under Building Looking Out (Spray Insulation Coverage)

Spray foam throughout, meeting underside of brick ledge and either side of expansion joint, but not covering expansion joint.
# REQUEST FOR CHANGE ORDER

**Ref.#** COR-0049
**GC #**
**Date** Mar 25, 2021
**Job #** 19-0998

## To:
**Turner Construction**  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
Contact: Walt Lewis

## Project:
**International African American Museum**  
14 Wharfside Street  
Charleston, SC

**Description:** RFI #002 modify stucco ceiling sheathing to 1/4" from brick around the entire building

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cementitious Backer Board-DW</td>
<td>129.00</td>
<td>45.00</td>
<td>$5,805.00</td>
</tr>
</tbody>
</table>

**Total Labor** $5,805.00

<table>
<thead>
<tr>
<th>Material</th>
<th>Size</th>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot; TYPE X GLASS MAT GYPSUM SHEATHING</td>
<td>10'</td>
<td>43.00</td>
<td>SHT</td>
<td>.89 SQFT</td>
<td>$1,530.80</td>
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</table>

**Total Material** $1,530.80

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-45' REACH FORKLIFT-9,000LB - JLG 534D9-45 - Gradall G9-43A</td>
<td>0.50 EA</td>
<td>2,908.00 EA</td>
<td></td>
<td>$1,454.00</td>
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</table>

**Total Equipment** $1,454.00

**Subtotal for Detail** $8,789.80

<table>
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<tr>
<th>Miscellaneous</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounding</td>
<td>$0.20</td>
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</tbody>
</table>

**Total Miscellaneous Charges** $0.20

---

**Labor Total:** $5,805.00  
**Material Total:** $1,530.80  
**Equipment Total:** $1,454.00  
**Sub Total:** $8,790.00

**Mark Up:** $879.00  
**10.00%**

**Total:** $9,669.00

---

Joel Ofsthun  
Project Manager
CHANGE PROPOSAL FORM

Project: IAAM
Contract: 
Contractor: Turner
Proposal #: 2
Project #: 
Contractor #: Waterproofing Specialties, Inc.

Description of change:
provide and install 2" vertical emseal joint at green location per email attached. Provide and install single ribbed silicone sheet at pink area per attached email. Provide and install air barrier and accessories to areas in puple. See attached email.

<table>
<thead>
<tr>
<th>Materials (Attach list with Qty, Item, Unit $, Unit mh, Total mh, OT mh, Total $)</th>
<th>SUBTOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Total Direct Cost of Materials</td>
<td>$10,371.24</td>
</tr>
<tr>
<td>2 Overhead &amp; Profit on Item 1. (15% Maximum)</td>
<td>$1,555.69</td>
</tr>
<tr>
<td>3 Sales Tax</td>
<td>$770.98</td>
</tr>
<tr>
<td>4 Shipping &amp; Transportation</td>
<td>$2,858.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$15,555.91</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Labor</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Total Manhours:</td>
</tr>
<tr>
<td>Foreman</td>
</tr>
<tr>
<td>110 MH @ $31.00 /hr.</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment Rental</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 Equipment Rental</td>
</tr>
<tr>
<td>9 Overhead &amp; Profit on Item 8. (15% Maximum)</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subcontractors (Include quotes with material &amp; equipment backup)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Subcontractors</td>
</tr>
<tr>
<td>11 Overhead &amp; Profit on Item 10. (10% Maximum)</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

Subtotal of Proposal **$25,670.36**

TOTAL OF CHANGE PROPOSAL **$25,670.36**

The Contractor agrees to perform the work outlined in this change proposal for the amount specified above and in accordance with the Contract documents if the work is authorized by the Owner.

Contractor's Signature: _______________ Justin Dietz ____________ Date: 10/22/2020
### Materials

<table>
<thead>
<tr>
<th>Qty</th>
<th>Unit</th>
<th>Description</th>
<th>Unit Price</th>
<th>Subtotal</th>
<th>Tax</th>
<th>Mat'l. Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5gal</td>
<td>17mr air barrier</td>
<td>206.01</td>
<td>412.02</td>
<td>28.84</td>
<td>440.86</td>
</tr>
<tr>
<td>3</td>
<td>rolls</td>
<td>blueskin SA</td>
<td>55.91</td>
<td>167.73</td>
<td>11.74</td>
<td>179.47</td>
</tr>
<tr>
<td>3</td>
<td>rolls</td>
<td>air barrier accessories</td>
<td>178.61</td>
<td>535.83</td>
<td>37.51</td>
<td>573.34</td>
</tr>
<tr>
<td>4</td>
<td>50ft rolls</td>
<td>ribbed silicon sheets</td>
<td>531.28</td>
<td>2125.12</td>
<td>148.76</td>
<td>2273.88</td>
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<tr>
<td>65</td>
<td>20oz saus sheet accessories</td>
<td>13.97</td>
<td>908.05</td>
<td>63.56</td>
<td>971.61</td>
<td></td>
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<tr>
<td>14</td>
<td>sticks</td>
<td>expansion joints 2&quot;</td>
<td>354</td>
<td>4956</td>
<td>346.92</td>
<td>5302.92</td>
</tr>
<tr>
<td>3</td>
<td>1gal</td>
<td>accessories</td>
<td>196</td>
<td>588</td>
<td>41.16</td>
<td>629.16</td>
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9,692.75  678.49  **10,371.24**
**BILL TO**  
Turner Brownstone  
Bobby Teachey II  
bteachey@bstonegroup.com

<table>
<thead>
<tr>
<th>SERVICES</th>
<th>PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulletin 16.3</td>
<td>$9,048.00</td>
<td>$9,048.00</td>
</tr>
<tr>
<td>We propose to furnish labor and materials for the additional GWB walls in rooms G206 and G207 per plans and specs in bulletin 16.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulletin 24</td>
<td>$3,600.00</td>
<td>$3,600.00</td>
</tr>
<tr>
<td>We propose to furnish labor and materials for the additional steel spindles at atrium per plans and specs on bulletin 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RFI 573</td>
<td>$350.00</td>
<td>$350.00</td>
</tr>
<tr>
<td>We propose to paint (1) 4’W, 2’H, 3.5’D framed, sheathed, painted black (Promar 200) enclosure in the adjacent corridor to G201 that lines up with the ceiling of G201.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stucco at Brick</td>
<td>$7,765.00</td>
<td>$7,765.00</td>
</tr>
<tr>
<td>We propose to cut 1/4” ceiling at brick then install backer rod and caulking to replace the use of the Z molding reveals per architects approval.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4” Joints CREDIT</td>
<td>($13,590.45)</td>
<td>($13,590.45)</td>
</tr>
<tr>
<td>Credit for 1/4” joints</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Z Molding</td>
<td>$7,712.00</td>
<td>$7,712.00</td>
</tr>
<tr>
<td>We propose to furnish and materials for the additional Z molding around the light fixtures on ground level ceiling per revised drawings dated 01/19/2021</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total:**  
$14,884.55

**Grand Total (USD):**  
$14,884.55

If you have any questions about this invoice, please contact Maryam, 843-276-2117, rahmanspainting_repairs@hotmail.com

Rahman's Painting and Repairs, LLC  
P.O. Box 60776  
North Charleston, South Carolina 29406  
United States  

Contact Information  
843-327-3884
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 1/13/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 160
Contract: Construction

Description of work to be performed:
Feeds for the Dock Substations
This change is associated with the materials for the installation of power to the north dock substations
The original design had undersized wire indicated for the connection between the transformer and the substations
At the same time the transformer feeding the substations changed from the Maritime Center to the IAAM.
The proposed change order shows a charge for the new up-sized wire length while crediting the wire length from the contract documents.

Justification: C - Errors and Omissions

Attachments:
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000): Change Proposal Request from CMR with Detailed Backup: X

Proposal Cost (not to exceed): $26,377.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: January 10, 2022
(NO) (YES) [Circle One]
Mike Risteski, Cumming Corp.

Approved:

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Robert L. O'Neal
COR #: 160

TURNER BROWNSTONE
14 Wharfside Street
Charleston, SC

Re: International African American Muesum

Feeders for Dock Power - Change in size

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | Per Revised Shop Drawings, wire size has to increase. |

| Pricing: | □ ROM Estimate of GR's & Insurances | □ ROM Estimate for Entire PCO | □ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates |
| Time Impact: | □ Evaluating Potential for Time Impact | □ Evaluated - NO TIME IMPACT | □ Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis) |
| | □ Work has been Completed | □ Work Has Commenced &/or is Ongoing | □ Work Authorization is Requested By: |

Submitted By: ⚫ Owner Directive
Contractor: TURNER BROWNSTONE
09/03/2021
$ 26,377

Requested Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Authorized Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Approved By: Owner: City of Charleston
$ 26,377

Amount Approved
<table>
<thead>
<tr>
<th>ESTIMATE TOTAL</th>
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<tr>
<td>$724.64</td>
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<td>$109.96</td>
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<td>$778.29</td>
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<td>$924.09</td>
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<td>$922.28</td>
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<tr>
<td>$608.33</td>
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<tr>
<td>SUBTOTAL</td>
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<td>$24,357.67</td>
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<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>$24,357.67</td>
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</table>

<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
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<tbody>
<tr>
<td>$24,357.00</td>
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<table>
<thead>
<tr>
<th>CONDITIONS</th>
<th>GENERAL REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(GEC) Material(s)</td>
<td>(GGR) Self Performed Labor</td>
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<table>
<thead>
<tr>
<th>CONDITIONS</th>
<th>GENERAL REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(GEC) General</td>
<td>(GGR) General</td>
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**General Summary of the Estimate**

International African American Museum
<table>
<thead>
<tr>
<th>COR No.</th>
<th>160</th>
</tr>
</thead>
</table>

**General Requirements (GRs) & General Conditions (GCs)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Additional Scope of Work**

**Trade Directs**

**Trade**
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

 Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:

Scope-Pull 500 KCMIL XHHW conductors from Utility transformer to Unit Substations A and B.
Original scope was to install #3/0 awg conductors.

Existing 3" PVC ductbank will be reused, (3) 500 KCMIL conductors per conduit run.

Time is of the essence with this order.
Depending on order release lead times may vary.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 2 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_56>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>#3/0 XHHW BLACK</td>
<td>-1,000</td>
<td>-2,753.58</td>
<td>-18.80</td>
</tr>
<tr>
<td>#500 XHHW BLACK</td>
<td>1,500</td>
<td>19,185.00</td>
<td>58.20</td>
</tr>
<tr>
<td>COMPRESSION SPLICE - CU - #500 CU WIRE</td>
<td>6</td>
<td>297.75</td>
<td>2.88</td>
</tr>
<tr>
<td>4000LB POWER CABLE PULLER</td>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>JET LINE</td>
<td>1,500</td>
<td>97.50</td>
<td>0.00</td>
</tr>
<tr>
<td>PULLING ROPE (3/4&quot;)</td>
<td>1,500</td>
<td>97.50</td>
<td>0.00</td>
</tr>
<tr>
<td>KELLEM WIRE GRIP</td>
<td>3</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>WIRE CUTS</td>
<td>6</td>
<td>240.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Totals</td>
<td>3,516</td>
<td>17,164.17</td>
<td>42.28</td>
</tr>
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</table>

Summary

General Materials | 17,164.17 |
Material Tax (9.000 %) | 1,544.78 |
Material Total | 18,708.95 |
JOURNEYMAN (42.28 Hrs @ $45.00) | 1,902.60 |
FOREMAN (6.34 Hrs @ $50.00) | 317.00 |
SAFETY @ 3.5% (1.48 Hrs @ $52.00) | 76.96 |
PM & G (50.10 @ 0.90 @ $7.56 + 0.999 % + 0.999 % + 0.999 %) | 378.76 |

TOTAL | 18,708.95

ORIGINAL
# PROPOSED CHANGE ORDER

<table>
<thead>
<tr>
<th>PCO #</th>
<th>56</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page Number</td>
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</table>

## Summary (Cont'd)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>VDG</td>
<td>69.10</td>
<td>212.42</td>
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<tr>
<td>VEHICLES</td>
<td>59.10</td>
<td>176.85</td>
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<tr>
<td>WIRE PULLER</td>
<td>1.00</td>
<td>75.00</td>
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<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Subtotal</td>
<td></td>
<td>21,180.40</td>
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<tr>
<td>Overhead</td>
<td>10.00%</td>
<td>2,118.04</td>
</tr>
<tr>
<td>Markup</td>
<td>5.00%</td>
<td>1,059.02</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtotal</td>
<td></td>
<td>24,357.06</td>
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<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Final Amount</td>
<td></td>
<td>$25,235.06</td>
</tr>
</tbody>
</table>

## CONTRACTOR CERTIFICATION

Name:

Date:

Signature:

*I hereby certify that this quotation is complete and accurate based on the information provided.*

## CLIENT ACCEPTANCE

<table>
<thead>
<tr>
<th>PCO #</th>
<th>56</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Amount:</td>
<td>$25,235.06</td>
</tr>
</tbody>
</table>

Name:

Date:

Signature:

Change Order #:

*I hereby accept this quotation and authorize the contractor to complete the above described work.*

**ORIGINAL**
Change Order Proposal Review Form

To: Edmund V. Most  Project: CP 1425 International African American Museum
From: Mike Risteski  Project No.: CP 1425
Date: 10/1/2021  Proposal No.: Change Order Request No. 161
Contractor: Turner Construction Company  Contract: Construction

Description of work to be performed: Breaker and Feeds for Generator Test Bank
This change is associated with the materials and labor of connecting the generator test bank
permanently to the emergency generator panel. The design documents had missed the breaker and connection
from the panel to the test bank. The 400A breaker is given as a credit from TB in this COR at a value of 4,000.00

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager  Cost Estimate (Expected to Exceed $10,000)
Independent Cost Estimate  Change Proposal Request from CMR with Detailed Backup
Pre-Negotiation Position (PNP)  X

Proposal Cost (not to exceed): $7,294.00  Owner Contingency Allow. Bal.
Time Extension Requested:  Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 1, 2021

(Circle One)  (Circle One)  (Circle One)  (Circle One)
Mike Risteski, Cumming Corp.  Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.  Edmund V. Most, City of Charleston
Bernard Costantine, Moody Nolan  Roswell LaRocca
Date Submitted: September 8, 2021

To: Edmund Most  
City of Charleston

Re: International African American Museum  
400 Amp Breaker for Load Bank, Install and Feeders.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Supply and Install 400 Amp Breaker for Generator Load Bank that is not shown on the contract drawings.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Possible Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Submitted By:</th>
<th>Contractor: TURNER BROWNSTONE</th>
<th>Requested Action:</th>
<th>Authorized to Proceed While Pricing</th>
<th>Price Only</th>
<th>Do Not Proceed or Price</th>
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<tbody>
<tr>
<td>Walter Lewis</td>
<td>09/08/2021</td>
<td>Authorized Action:</td>
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<td>Price Only</td>
<td>Do Not Proceed or Price</td>
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<tr>
<td>Project Engineer</td>
<td>$ 7,294 Amount Requested</td>
<td></td>
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<td></td>
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<table>
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<tr>
<th>Reviewed By:</th>
<th>Program Manager: CUMMING</th>
<th>Authorized Action:</th>
<th>Authorized to Proceed While Pricing</th>
<th>Price Only</th>
<th>Do Not Proceed or Price</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Authorized Action:</td>
<td>Authorized to Proceed While Pricing</td>
<td>Price Only</td>
<td>Do Not Proceed or Price</td>
</tr>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Approved By:</th>
<th>Owner: City of Charleston</th>
<th>Approved Action:</th>
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<th>Price Only</th>
<th>Do Not Proceed or Price</th>
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<tbody>
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General Summary of the Estimate
International African American Museum

TOTAL

<table>
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<th>Description of Work</th>
<th>TRADE DIRECTS</th>
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<tbody>
<tr>
<td></td>
<td>General Requirements (GRC) &amp; General Conditions (GCS) Material(s) &amp; Equipment</td>
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<td>SELF PERFORMED LABOR</td>
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<tr>
<td></td>
<td>Description of Work</td>
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COR No.: 161

Turner
Trade Directs

General Requirements (GR) \& General Conditions (GC)
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
- Generator Load Center Feed

Includes:
Field installation of new 400 amp breaker.
Install 400 amp conduit and feeder wire-500 KCMIL in 3" EMT conduit.
Freight.
Overtime.

Exclusions:
Furnishing 400 amp breaker. Furnished by others.
Breaker warranty and commissioning.

Clarifications:
Mounting of load center is by others.
Generator load center no shown on contract drawings.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 5 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_57>.

Itemized Breakdown

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<tr>
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<th>Total Hrs.</th>
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</thead>
<tbody>
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<td>3&quot; CONN COMP STL - EMT</td>
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<td>3&quot; COUPLING COMP STL - EMT</td>
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<td>3&quot; BUSHING - PLASTIC</td>
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<td>1/4-20x 1/2 HEX HEAD BOLT - PLTD STL</td>
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<td>1/4-20 HEX NUT - PLTD STL</td>
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ORIGINAL
# Proposed Change Order

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**Summary**

- General Materials: $3,942.17
- Material Tax: $354.80
- Material Total: $4,296.97
  - Journeyman: (23.29 Hrs x $45.00) = $1,048.05
  - Foreman: (3.49 Hrs x $50.00) = $174.50
  - Overtime Adjustment: (5.00 Hrs x $67.50) = $337.50
  - PM&G: (31.78 Hrs x $7.56 + 0.000 % + 0.000 % + 0.000 %) = $240.26
  - VDC: (31.78 Hrs x $4.24 + 0.000 % + 0.000 % + 0.000 %) = $134.75
  - Vehicles: (31.78 Hrs x $3.53 + 0.000 % + 0.000 % + 0.000 %) = $112.18
  - Consumables: (31.78 Hrs x $0.30 + 0.000 % + 0.000 % + 0.000 %) = $9.53

- Subtotal: 5,857.02
  - Overhead: (10.000 % x 5,857.02) = $585.70
  - Markup: (5.000 % x 5,857.02) = $292.85

- Final Amount: $7,338.57

**Contractor Certification**

- Name: 
- Date: 
- Signature: 

  I hereby certify that this quotation is complete and accurate based on the information provided.

**Client Acceptance**

- PCO #: 57
- Final Amount: $7,338.57

- Name: 
- Date: 
- Signature: 

  I hereby accept this quotation and authorize the contractor to complete the above described work.

ORIGINAL
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 1/13/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 162
Contract: Construction

Description of work to be performed: Irrigation Tap - Connection Fees
This change is associated with the materials and labor for the irrigation supply tap to the CWS system.
The original design and fees paid were for a 3/4" tap. The landscaping company who designed the irrigation system determined that a 2" tap would be needed to satisfy the demands of the irrigation system.
The proposed change order includes the credit fee paid for the original tap.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $33,437.00 Owner Contingency Allow. Bal.
Time Extension Requested: ____________________________ Time Extension Recommended: ____________________________

Special Circumstances: ____________________________

Consequence of Rejection: ____________________________

Comments by Supervisor: ____________________________

Decision needed by: January 10, 2022

(YES) (NO) (Circle One)
Mike Risteski, Cumming Corp.

(YES) (NO) (Circle One)
Rick Holt, Cumming Corp.

(YES) (NO) (Circle One)
Robert Faust, Cumming Corp.

(YES) (NO) (Circle One)
Edmund V. Most, City of Charleston

(YES) (NO) (Circle One)
Bernard Costanzino, Moody Notan

(YES) (NO) (Circle One)
Robert Langer

Approved:

(YES) (NO) (Circle One)
Date Submitted:  September 9, 2021

To:  Edmund Most  
City of Charleston

Re:  International African American Museum  
Irrigation Tap - Not shown on the drawings.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
To Supply and Install Materials and Labor to complete a new Water Tap for the Irrigation system not shown on the drawings.

**Reason:**
- [ ] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [x] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [x] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] TBD
- [ ] Work Authorized is Requested By:

**Work Has been Completed**
- [x] Work Has been Completed
- [ ] Work Has Commenced &/or is Ongoing

**Submitted By:**
Walter Lewis  Project Engineer  09/09/21

**Contractor:**  TURNER BROWNSTONE

**Amount Requested:**
$33,437

**Requested Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Reviewed By:**
Program Manager: CUMMING

**Dated:**

**Authorized Action:**
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Approved By:**
Owner: City of Charleston

**Dated:**

**Amount Approved:**
$33,437
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<tr>
<td>SELF PERFORMED LABOR</td>
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| Description of Work                                    |      |         |            |        |
| DETAIL                                                                 |       | $3,101.44 |          |

**Total Estimate:** $3,433,437

**Cor No.:** 162

General Summary of the Estimate

International African American Museum

**Turner**
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**TOTAL:** $9,635.00
To: Turner Construction Company
Address: 4601 Park Road, Suite 601
Charlotte, NC 28209

Contact: Bobby Teachey
Phone: (704) 319-4854
Fax: 

Project Name: IAAM - COR32 Irrigation Tap
Project Location: 14 Wharfside Street, Charleston, SC

Bid Number: 
Bid Date: 9/2/2021

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<td>LS</td>
<td>$25,744.76</td>
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</tbody>
</table>

Total Bid Price: $25,744.76

Notes:
- See attached backup with scope clarification.

ACCEPTED:
The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: 
Signature: 
Date of Acceptance: 

CONFIRMED:
Gulf Stream Construction Company Inc

Authorized Signature: 
Estimator: Ken Allen
(843) 409-5914  kallen@gulfstreamconstruction.com

## Cost Detail With Pricing and Categories

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<th>IAAM - COR32 Irrigation Tap</th>
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<td>Phone:</td>
<td>(704) 319-4854</td>
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<td>Estimator:</td>
<td>Ken Allen</td>
<td>Contact:</td>
<td>Bobby Teachey</td>
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<td>Project Address:</td>
<td>14 Wharfside Street, Charleston, SC</td>
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<td>Completion Date:</td>
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### Pay Items

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<th>Total Direct Cost</th>
<th>Unit Price</th>
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### Indirect Items

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9/2/2021 11:18:07 AM  Page 1 of 2
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<td>Plug:</td>
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### Indirect Cost Totals

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<tr>
<td>Equipment Owned:</td>
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<tr>
<td>Equipment Rented:</td>
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August 26, 2021

To: Gulf Stream Construction  
   Attn: Harmon Todd  
   Via email

Re: IAAM – Irrigation Tap & Meter  
   Charleston, SC

Chandler Construction Services, Inc. proposes to provide and install one (1) 10” x 1 1/2” tap, one (1) 1 1/2” corp stop, 20 LF of 1 1/2” copper pipe and one (1) 1 1/2” setter in box. We specifically exclude any tap, privilege, usage or other fees, the supply and installation of the 1 1/2” meter, any required backflow devices and anything not listed above.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td>$4,835.00</td>
</tr>
<tr>
<td>Labor and Equipment</td>
<td>$9,653.00</td>
</tr>
<tr>
<td>1 1/2” Tap</td>
<td>$930.00</td>
</tr>
<tr>
<td>Per Diem</td>
<td>$1,287.00</td>
</tr>
<tr>
<td>GC and OH</td>
<td>$836.00</td>
</tr>
<tr>
<td>Additional Mobilization</td>
<td>$4,600.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$22,138.00</strong></td>
</tr>
</tbody>
</table>

Please remove these items. The original drawings were showing irrigation lines that had to be fed from a system regardless of the size of the tap.

Respectfully submitted,

Chandler Construction Services, Inc.

John Cecil

The content of this proposal is the confidential property and intellectual property of Chandler Construction Services, Inc. and shall not be copied, modified, retransmitted or used for any purpose other than the acquisition of services with Chandler Construction Services, Inc.
YOUR NEW WATER SERVICE WILL BE INSTALLED IN APPROXimately 6 WEEKS AFTER FULL PAYMENT OF THE FEES.
FOR QUESTIONS, PLEASE CONTACT CUSTOMER SERVICE AT 727-6800 AND HAVE YOUR ACCOUNT NUMBER READILY AVAILABLE.

ACCOUNT NUMBER 150425-00-7

SERVICE ADDRESS
TURNER CONSTRUCTION CO
9 WHARFSIDE DR
CHARLESTON SC 29401

ACCOUNT
ACCOUNT NUMBER 150425-00-7
METER NUMBER

BILL INFO
STATEMENT DATE JULY 6, 2021
METER READING

UNITS USED
GALLONS

BILLING PERIOD
SEP 26 - SEP 26
DATE METER READ

RATE CODES

HISTORICAL DATA

PRIOR BALANCE .00
PAYMENT ON 10/09/19 $3,931.00 CR
PRIOR BALANCE $3,931.00 CR

CURRENT MONTH SERVICES:
- ORIGINATION FEE $30.00
- WATER TAP FEE $500.00
- WATER TAP FEE ADJ $1,500.00
- WATER IMPACT FEE $2,901.00
- WATER IMPACT FEE ADJ $6,769.00
- WATER ENG SERV FEE $500.00

TOTAL - CURRENT CHARGES $12,200.00

TOTAL - AMOUNT DUE $8,269.00

SAVE A STAMP OR TRIP!
SIGN UP FOR E-BILL OR AUTODRAFT charlestonwater.com/customers

ACCOUNT NUMBER 150425-00-7

SERVICE ADDRESS
TURNER CONSTRUCTION CO
9 WHARFSIDE DR
CHARLESTON SC 29401

DETACH AND RETURN THIS PORTION WITH PAYMENT,

A LATE PAYMENT CHARGE WILL BE ADDED TO ANY BALANCE REMAINING AFTER THE DUE DATE.

AMOUNT PAID

Please make check payable to Charleston Water System

AMOUNT DUE $8,269.00

150425007 00000826900 31
Payment Options

Phone
(843) 727-6800 Visa, MasterCard, Discover, American Express. Payments on weekends, holidays, or after 4 p.m. credited the next business day.

Online
Visit charlestonwater.com to register for e-Pay.

Auto Draft
Payments automatically deducted from your bank account every month on the due date. Complete the info below and return to enroll.

Mail
Bottom of this bill with payment.

In Person
Branch offices:
M-F 8 a.m. - 5 p.m.
• 103 St. Philip St. (Downtown)
• 6296 Rivers Ave. (North Area)

Authorized payment centers:
You must have your bill to make a payment. Hours of operation may vary. Payments on weekends, holidays, or after 4 p.m. credited to account the next business day. You may be charged a $1 convenience fee.

Food Lion:
1015 King Street 4400 Dorchester Road
2144 Savannah Highway
Piggly Wiggly:
8780-A Rivers Avenue

Note: To have water service restored after paying at one of these locations, call Customer Service (843) 727-6800.

Account Inquiries
For current account balance and due date, call (843) 727-6800 to access our 24-hour automated system. TDD: 1-800-735-8583.

About Your Bill
Your water bill is based on how much water you use, the size of the water pipe connected to your home or business, and location.

Your water meter measures consumption in cubic feet. We charge a minimum bill for the first (2 Ccf), and an additional amount for volume above the minimum. 1 Ccf equals 748 gallons.

Sewer charges are based on water consumption. Visit charlestonwater.com for water and sewer rates.

Storm Water Charges
We are the billing agent for the city of Charleston’s storm water fee. If you live in the City, this fee appears on your bill. If you have any questions about this fee or stormwater drainage, contact the City’s department of Public Service at (843) 724-7246.

Past Due Accounts
Full payment is due each month by the due date on your bill. Past due accounts will be charged a late fee of 2% of the outstanding balance or $10, whichever is greater. Delinquent accounts are subject to disconnection of water service and will be charged a $50 nonpayment processing fee. Past due stormwater charges do not affect your water service, but a 2% late fee will apply. All outstanding balances are subject to collections and/or reporting to credit agencies and may be submitted to the SC Department of Revenue to be deducted from your individual state income tax refund.

About Your Water
Your tap water comes from the Bushy Park Reservoir and the Edisto River and is treated at our award-winning Hanahan Water Treatment Plant. Our water meets or exceeds all water quality regulations and is tested thousands of times each year to ensure it’s safe.

Look for our annual Water Quality Report in June at charlestonwater.com.

Support Operation Round-Up!
Complete the form below and we’ll round up your bill to the nearest dollar each month, beginning with your next bill. The extra charge will benefit our Good Neighbor program or Water Mission, you decide by checking the appropriate box below.

The Good Neighbor program provides assistance to low-income families in the Lowcountry who are unable to pay their water or sewer bill. For more info, call (843) 727-6800 or visit our website.

Water Mission is a Charleston based nonprofit that provides clean, safe water to people in developing countries and disaster areas. Learn more at watermission.org.

Notice:
We provide service in accordance with our Water Rules and Regulations and Wastewater Use and Rate Resolutions. All customers are required to abide by the Rules and Regulations in effect at the time of billing.

Automatic Bank Draft Payment Authorization
By signing below, I authorize and instruct my financial institution to deduct the amount of my monthly water and sewer bill from my checking account and remit directly to Charleston Water System. Bank account information will be obtained from my enclosed check payment.

Yes! I want to participate in Operation Round-up!
By signing below and selecting an organization, I authorize Charleston Water System to round up my future bills to the nearest dollar.

Please select the organization you would like your round-up donation to benefit by checking the appropriate box below. Please select only 1 box. If you sign below but do not make a selection, your donation will benefit the Good Neighbor program.

☐ Good Neighbor program ☐ Water Mission

Mailing Address changes or corrections

Street Address
City, State, Zip
Thanks for the info. Very useful.

---

Rick – please see below from CWS. Thanks.

Trey

Good morning,

Unfortunately, we do not allow taps from anything smaller than 4”. This is to eliminate unnecessary soldered joints on the copper lines that could potentially become leak points. Let me know if you need anything additional.

Thanks

Benjamin Beasley, GSP
Charleston Water System
Engineering and Construction Dept.

O: 843.727.6870  
C: 843.300.9489

From: Trey Linton <tlinton@forsberg-engineering.com>  
Sent: Wednesday, September 8, 2021 7:35 AM  
To: Beasley, Benjamin A <BeasleyBA2@charlestoncpw.com>  
Subject: [External] Irrigation tap question

Ben,
Irrigation question for you. Does CWS allow the irrigation line to be tapped of the 2" domestic meter line or does it need to come of the main?  
Thanks,  
Trey
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/1/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 167
Contract: Construction

Description of work to be performed: CT Install for Dock Power
This change is associated with the materials and labor in the installation of the additional power meters at each substation. The additional meters were required by Dominion Energy.

Justification: B - Code/Regulatory Agency Required Change

Attachments:
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $2,120.00 Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:

Decision needed by: October 1, 2021

Mike Risteski, Cumming Corp.

Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan
**Turner BROWNSTONE**
14 Wharfside Street
Charleston, SC

**Re:** International African American Muesum
**CT installation for the City for the Dock Power.**

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To install the 2 additional CT Boxes for the City</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
<th>Owner Directive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code / Regulatory</td>
<td></td>
</tr>
<tr>
<td>Unforeseen Condition</td>
<td></td>
</tr>
<tr>
<td>Design Issue</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROM Estimate for Entire PCO</td>
<td></td>
</tr>
<tr>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
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</thead>
<tbody>
<tr>
<td>Evaluated - NO TIME IMPACT</td>
<td></td>
</tr>
<tr>
<td>TBD Calendar Days Requested (See attached FPRAGNET/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td>Work Authorization is Requested By:</td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: [Signature]
**09/27/2021**
Amount Requested: **$2,120**

Contractor: **TURNER BROWNSTONE**

Reviewed By: [Signature]  
Program Manager: **CUMMING**

Authorized Action:
- Authorized to Proceed While Pricing  
- Price Only  
- Do Not Proceed or Price

Authorized Action:
- Authorized to Proceed While Pricing  
- Price Only  
- Do Not Proceed or Price

Approved By: [Signature]  
Owner: **City of Charleston**

Amount Approved: **$2,120**
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Direct cost (Total)</td>
<td>$2,120</td>
</tr>
<tr>
<td>G&amp;A</td>
<td>$577.47</td>
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<tr>
<td>Overhead and Profit (Taken off of Direct cost)</td>
<td>3.25%</td>
</tr>
<tr>
<td>Procure</td>
<td>0.0490%</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>$143.33</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>0.84%</td>
</tr>
<tr>
<td>Supervised</td>
<td>$223.50</td>
</tr>
<tr>
<td>Cop</td>
<td>0.01%</td>
</tr>
<tr>
<td>Constructional Item</td>
<td>$489.35</td>
</tr>
<tr>
<td>Total</td>
<td>$1,958</td>
</tr>
</tbody>
</table>

**Subtotal of Work**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Directs</td>
<td>$1,958.00</td>
</tr>
<tr>
<td>Conditions (G.C.G) Material (s) &amp; General</td>
<td>$0</td>
</tr>
<tr>
<td>General Requirements (G.R.G) 8 General</td>
<td>$0</td>
</tr>
<tr>
<td>Self-Performed Labor</td>
<td>$0</td>
</tr>
</tbody>
</table>

General Summary of the Estimate

International African American Museum
$1,958

$1,958

To install 2 CT boxes for the city at the Substations (2 units)

Additional Scope of Work

DESCRIPTION

TRADE DIRECTS

GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)

DESCRIPTION

GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)

Cor No.: 167

International African American Museum
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction/ Brownstone Management and Design
Contact: Walt Lewis
405S Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
- Install (2) two utility CT metering units for Unsit Substations at each Unit Substation A & B.

Includes:
Installation of (2) CT metering units.
Stainless steel unistrut mounting structure.
Remount existing 400 amp disconnects.

Excludes:
Furnishing CT Meters (furnished by power company)

Clarifications:
This work is integral to the #500 kcmil feeders from Utility transformer to Unit Substations.
Per power company, account must be set up before they will release the CT meters to Watson for installation.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 3 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_58>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3’ x CLOSE NIPPLE - RMC - GALV</td>
<td>2</td>
<td>63.70</td>
<td>2.24</td>
</tr>
<tr>
<td>3” LOCKNUT - STEEL</td>
<td>4</td>
<td>31.68</td>
<td>0.20</td>
</tr>
<tr>
<td>3” BUSHING - STEEL</td>
<td>4</td>
<td>136.89</td>
<td>0.21</td>
</tr>
<tr>
<td>3/8-16 SPRING NUT 2 7/16 OR 3 1/4“ STRUT</td>
<td>8</td>
<td>31.51</td>
<td>0.60</td>
</tr>
<tr>
<td>FLAT SQ WASHER W/ 3/8” HOLE GRN</td>
<td>2</td>
<td>8.00</td>
<td>0.12</td>
</tr>
<tr>
<td>2H CRNR ANGLE 2 5/16x 1 5/8x 1 5/8“ GRN</td>
<td>2</td>
<td>17.26</td>
<td>0.09</td>
</tr>
<tr>
<td>1 5/8x 1 5/8x xxG CHANNEL - S/S</td>
<td>60</td>
<td>0.00</td>
<td>15.84</td>
</tr>
<tr>
<td>3/8-16x 2 3/4 WEDGE ANCHOR - 1 1/2” MIN DEPTH - 304 S/S</td>
<td>8</td>
<td>16.46</td>
<td>1.80</td>
</tr>
<tr>
<td>3/4” FLAT WASHER - PLTD STL</td>
<td>8</td>
<td>2.16</td>
<td>0.48</td>
</tr>
<tr>
<td>#12x 3/4 F/H SELF-TAP SCREW</td>
<td>8</td>
<td>0.00</td>
<td>0.55</td>
</tr>
<tr>
<td>METERING CURRENT TRANSFORMER</td>
<td>2</td>
<td>0.00</td>
<td>3.45</td>
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<tr>
<td><strong>Totals</strong></td>
<td>108</td>
<td>307.67</td>
<td>25.58</td>
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</table>

ORIGINAL
**PROPOSED CHANGE ORDER**

<table>
<thead>
<tr>
<th>Summary</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General Materials</td>
<td>307.67</td>
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<tr>
<td>Material Tax ( @ 9.000 %)</td>
<td>27.69</td>
</tr>
<tr>
<td>Material Total</td>
<td>335.36</td>
</tr>
<tr>
<td>JOURNEYMAN (25.58 Hrs @ $45.00)</td>
<td>1,151.10</td>
</tr>
<tr>
<td>FOREMAN (3.84 Hrs @ $50.00)</td>
<td>192.00</td>
</tr>
<tr>
<td>Subtotal</td>
<td>1,678.46</td>
</tr>
<tr>
<td>Overhead ( @ 10.000 %)</td>
<td>167.85</td>
</tr>
<tr>
<td>Markup ( @ 5.000 %)</td>
<td>92.32</td>
</tr>
<tr>
<td>Subtotal</td>
<td>1,938.63</td>
</tr>
<tr>
<td>Adjustment #1 Bond ( @ 1.000 %)</td>
<td>19.39</td>
</tr>
<tr>
<td>Final Amount</td>
<td>$1,958.02</td>
</tr>
</tbody>
</table>

**CONTRACTOR CERTIFICATION**

Name: 

Date: 

Signature:  

I hereby certify that this quotation is complete and accurate based on the information provided.

**CLIENT ACCEPTANCE**

<table>
<thead>
<tr>
<th>PCO #</th>
<th>58</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Amount:</td>
<td>$1,958.02</td>
</tr>
</tbody>
</table>

Name: 

Date: 

Signature:  

Change Order #: 

I hereby accept this quotation and authorize the contractor to complete the above described work.
EXTERNAL EMAIL -- Please Handle Cautiously

Steve,
Thank you for your voicemail late last week. I have confirmed the north docks elect service will require a separate meter from the IAAM service. I have already given Elbow a heads up please advance this request as soon as possible and coordinate with Turner with the account. Eventually it will be transferred over to the city.

Thanks, Edmund

Sent from my iPhone
Description of work to be performed: Power for Smoke Dampers
This change is associated with the materials and labor for the installation of power to the automated smoke dampers. The original contract drawings show the smoke dampers however their power requirements are not specified and were not shown on the drawings. Turner submitted an RFI to clarify the power requirements, and the answer was sent that the power should be supplied from the DDC panel. Unfortunately this was not possible therefore the dampers had to be converted to AC power and separate power was pulled to each damper location.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $32,679.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Comments by Supervisor:

Decision needed by: February 24, 2022

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costanzino, Moody Nolan

(No) (Yes) (Circle One)
Date Submitted: October 4, 2021

To: Edmund Most  
City of Charleston

Re: International African American Muesum  
Smoke Damper Power

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To supply power to smoke dampers not shown on the contract drawings. Spec requires 24 volt smoke dampers, drawings do not show power source, circuiting, or associated information.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>TBD</td>
<td>Work Authorization is Requested By:</td>
</tr>
<tr>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis  
Project Engineer  
10/04/2021  
Amount Requested  
$32,679

Contractor: TURNER BROWNSTONE  
10/04/2021

Requested Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Authorized Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING  
Dated

Approved By: Owner: City of Charleston  
Dated  
Amount Approved  
$32,679
<table>
<thead>
<tr>
<th>ITEM</th>
<th>DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3,902.77</td>
<td>TRADE DIRECTS</td>
</tr>
<tr>
<td>$1,434.44</td>
<td>MATERIALS</td>
</tr>
<tr>
<td>$2,452.30</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>$220.86</td>
<td>GENERAL REQUIREMENTS (GCR) A GENERAL</td>
</tr>
<tr>
<td>$240</td>
<td>CONDITIONS (GCR) A GENERAL</td>
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<tr>
<td>$30</td>
<td>CONDITIONS (GCR) A GENERAL</td>
</tr>
</tbody>
</table>

**General Summary of the Estimate**

International African American Museum

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**COR NO.:**

168

---

**Estimate Total:**

$32,679

**Subtotal:**

$30,112

---

**Overhead and Profit (Taken of direct work cost):**

3.25%

**Procure:**

0.04500%

**Performance and Payment Bond:**

0.00732

**Builders Risk:**

0.82%

**Subgurant:**

2.012

**CIP:**

2.50%
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driveway and F zum Field back edge work is complete</td>
<td>$3,000.00</td>
<td>1</td>
<td>$3,000.00</td>
</tr>
<tr>
<td>To provide power to smoke dampers and transformers</td>
<td>$27,720.00</td>
<td>1</td>
<td>$27,720.00</td>
</tr>
</tbody>
</table>

**TOTAL SUBTOTAL:** $30,772

**COR No.:** 168

**International African American Museum**
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
SCOPE: Power for (17) Fire / Smoke Dampers.

Inclusions:
Flooring covering and protection-plywood and foam board.
120 volt / 20 amp power circuitts to transformers.
3/4" EMT conduit and #10 awg conductors for power and 16/2c low voltage wiring.
Low voltage cable as per Damper submittal and cable submittal.
Core drilling through walls and between floors as required.
Fireproofing where required.
Connections / terminations to dampers; with approval and coordination of mechanical contractor.

Exclusions:
500 VA power transformer and enclosure.
100 VA and smaller power transformers (enclosures by Watson).
Fire / smoke dampers or mechancial equipment.
Connections, cabling or programming realiting to BAS system or mechanical controls system(s).
Cutting and patching.

Clarifications:
Use existing SPARE 120 volt / 20 amp breakers in panel EAP-L3.
Acknowledgement-we have reviewed current panel legends and current existing conditions of panel EAP-L3 and confirm that there are available breakers.
Acknowledgement-cable size will consider run lengths when sizing cable.
Approved chnage order required prior to beginning work.
Testing of damper in coordination with mechanical contractor.
Price includes using scaffolding.
Removal of ceiling tiles where required by others.
Watson not responsible for damaged ceiling tiles.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 14 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_60 Fire / Smoke Dampers Power>.

ORIGINAL
## PROPOSED CHANGE ORDER

### Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
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<tbody>
<tr>
<td>3/4&quot; CONDUIT - EMT</td>
<td>716</td>
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<td>3/4&quot; CONN COMP STL - EMT</td>
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<td>3/4&quot; COUPLING COMP STL - EMT</td>
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<td>1/2 OR 3/4&quot; SNAP CLOSE CLIP - BTM MNT ON 1/4&quot; FLNG HNGR</td>
<td>79</td>
<td>159.43</td>
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<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT - BTM MNT ON 1/4&quot; FLNG HNGR</td>
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<td>3/4&quot; FLEX - ALUMINUM</td>
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<td>#10 THHN BLACK</td>
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<td>4x 1 1/2&quot; SQ BOX COMB KO</td>
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<td>4x 2 1/8&quot; SQ BOX 3/4&quot; KO</td>
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<td>10x 1 P/H SELF-TAP SCREW</td>
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**Summary**

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<td>Material Tax</td>
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| Material Total   | | 7,851.46 | 6,951.46 |
|------------------| |         |          |
| JOURNEYMAN       | (268.55 Hrs @ $45.00) | 12,084.75 |
| FOREMAN           | (40.28 Hrs @ $50.00)  | 2,014.00  |
| SAFETY @ 3.5%     | (9.40 Hrs @ $52.00)   | 488.80    |
| PLAS              | (240.00 @ 0.00 @ $6.50 + 0.00% @ 0.00% @ 0.00% @ 0.00%) | 2,090.00 |
| VDO               | (348.73 @ 0.00 @ $4.98 @ 0.00% @ 0.00% @ 0.00% @ 0.00%) | 1,724.49 |
| VEHICLES          | (348.73 @ 0.00 @ $3.50 + 0.00% @ 0.00% @ 0.00% @ 0.00%) | 1,113.81 |
| CONSUMABLES       | (348.73 @ 0.00 @ $3.30 + 0.00% @ 0.00% @ 0.00% @ 0.00%) | 96.47    |
| SCAFFOLDING       | (1.00 @ 1.00 @ $955.00 + 0.00% @ 0.00% @ 0.00% @ 0.00%) | 955.00   |

| Subtotal          | | 23,394.01 | 2,579.00 |
|-------------------| | 2,393.40  | 1,169.70 |
| Adjustment #1-BOND| | 26,903.11 | 29,787.47 |

| Final Amount      | | 27,172.14 | 98,995.54 |

**ORIGINAL**
PROPOSED CHANGE ORDER

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<tr>
<td>Date:</td>
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<tr>
<td>Signature:</td>
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I hereby certify that this quotation is complete and accurate based on the information provided.

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I hereby accept this quotation and authorize the contractor to complete the above-described work.

ORIGINAL
# Smoke Damper PD and Drawings

**SPEC SECTION:** 23 33 00 - Air Duct Accessories  
**CREATED BY:**  
**STATUS:** Open  
**DATE CREATED:** 09/23/2021  
**ISSUE DATE:** 09/23/2021  
**REVISION:** 0  
**RESPONSIBLE CONTRACTOR:** Watson Electrical Construction Co. LLC  
**RECEIVED FROM:** Dale Winovich  
**RECEIVED DATE:** //  
**SUBMIT BY:** //  
**FINAL DUE DATE:** 10/07/2021  
**LOCATION:**  
**TYPE:** Product Data  
**COST CODE:**  
**APPROVERS:**  
Bri’Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)  
**BALL IN COURT:**  
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)  
**DISTRIBUTION:**  
Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan)  
**DESCRIPTION:**  
**ATTACHMENTS:**

## SUBMITTAL WORKFLOW

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</table>
Mechanical comments:
1. Note this is a revision to the 23 33 00-1.0 Submittal reviewed by Arup in 2019.
2. There are 17 total dampers shown in the revised FSD submittal on pages 13-18 and all listed as 120V.
3. The beginning of the submittal shows provision for 120VAC to 24Vac transformers. Contractor to correct.
4. Installation per details 1 and 2 on sheet M-807.
5. Contractor to coordinate installation of all FSDs with Fire Alarm contractor.
6. Contractor to confirm final dimensions and locations.

Electrical comments:
1. Contractor to confirm that spares are available in EAP-L3. Panel schedule shown within submittal does not include latest bulletins.
2. All work shall be completed without the addition of any new access panels.
3. Coordinate conductor size with length of each run. Upsize conductors as required to avoid voltage drop on long low voltage runs.
## Smoke Damper PD and Drawings

### SPEC SECTION:
23 33 00 - Air Duct Accessories

### STATUS:
Open

### ISSUE DATE:
09/23/2021

### RESPONSIBLE CONTRACTOR:
Watson Electrical Construction Co. LLC

### RECEIVED DATE:
///

### SUBMIT BY:
///

### FINAL DUE DATE:
10/07/2021

### TYPE:
Product Data

### RECEIVED FROM:
Dale Winovich

### LOCATION:

### COST CODE:

### APPROVERS:
Br'i'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)

### BALL IN COURT:
Br'i'Shae Anderson (Turner Construction (CAR))

### DISTRIBUTION:
Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan)

### DESCRIPTION:

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TURNER-BROWNSTONE

REVIEWED BY: idanderson        DATE: 09/23/2021
Reviewed by Turner for General Compliance with the contract documents only. This review does not relieve the subcon astractor of the responsibility for making the work conform to the requirements of the contract. The subcon astractor is responsible for all dimensions, correct fabrication, and accurate fit with the work of other trades.

SUBMITTAL # 233300-9 Pedestal Fire Smoke Damper Piping and Drawings

BY DATE COPIES TO

TCCo All/Car Page 2 of 2 Printed On: 09/23/2021 02:51 PM
Date: September 23, 2021

FIRE / SMOKE DAMPER POWER

CUTSHEETS

International African American Museum Controls

Transmitted To:

International African American
14 Wharfside Street
Charleston,
SC 29401

Submitted By:
Joe Curry
Project Owner

JCI Contract: 0N94-0069

Johnson Controls, Inc.
4415 Sea Ray Drive
Charleston,
SC 29405
Tel: 843-745-6748
Fax: 843-744-5553

QTY 1: PSH500
QTY 3: PSH100
QTY 1: Y65T42-0
Specifications

Transformer: One (1) 500 VA
Over Current Protection: Circuit Breaker
Primary: 480/277/240/120 Vac
Frequency: 50/60 Hz
Dimensions: 12.125" x 12.125" x 6.000" (PSH500A), 11.330" x 11.400" x 5.000" (PSMN500A)
Approvals: Class 2 (UL Approved UL5085-3), UL916, UL508C, C-UL, CE, RoHS
Sub-Panel: Plenum Rized Polymetal
Housing: NEMA1 Metal Enclosure (PSH500A)
Weight: 30.16 lbs. (PSH500A), 20.60 lbs. (PSMN500A)

PSH500A
Enclosed 500VA Power Supply with Five 100VA Class 2 Outputs, 480/277/240/120 Vac to 24 Vac

PSMN500A
Open Style 500VA Power Supply with Five 100VA Class 2 Outputs, 480/277/240/120 Vac to 24 Vac

AC Power Supply

Standby Wattage:
48.515 W @ 120 Vac
48.699 W @ 240 Vac
49.564 W @ 277 Vac
48.255 W @ 480 Vac

Full Load Primary Current:
4.66 A @ 120 Vac
2.41 A @ 240 Vac
2.06 A @ 277 Vac
1.17 A @ 480 Vac

Secondary Output Voltage vs. Load:
24.0 V @ 20 VA
23.8 V @ 50 VA
23.5 V @ 80 VA
23.0 V @ 100 VA

Notes:
- To order UL508, add "UL" to end of model number.
- Open style is mounted to sub-panel SP3363 for shipping and may be remounted to suit application.
PSH100A SERIES
Enclosed Single 100 VA Power Supplies, 120 to 24 Vac

Model Shown: PSH100A810

Functional Devices, Inc. A600A 2003

PSH100A SELECTION GUIDE

<table>
<thead>
<tr>
<th>Model #</th>
<th>120 Vac Outlets</th>
<th>Aux. Output Wire</th>
<th>Main Breaker On Input Power</th>
<th>Secondary Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSH100A</td>
<td></td>
<td></td>
<td></td>
<td>External Terminal Strip</td>
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<tr>
<td>PSH100AN</td>
<td></td>
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<td>External Terminal Strip</td>
</tr>
<tr>
<td>PSH100ANW</td>
<td></td>
<td></td>
<td></td>
<td>Internal Wires</td>
</tr>
<tr>
<td>PSH100AW</td>
<td></td>
<td></td>
<td></td>
<td>Internal Wires</td>
</tr>
<tr>
<td>PSH100AB10</td>
<td></td>
<td></td>
<td>10A Switch / Breaker</td>
<td>External Terminal Strip</td>
</tr>
<tr>
<td>PSH100ANB10</td>
<td></td>
<td></td>
<td>10A Switch / Breaker</td>
<td>External Terminal Strip</td>
</tr>
<tr>
<td>PSH100ANWB10</td>
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<td></td>
<td>10A Switch / Breaker</td>
<td>Internal Wires</td>
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<tr>
<td>PSH100AWB10</td>
<td></td>
<td></td>
<td>10A Switch / Breaker</td>
<td>Internal Wires</td>
</tr>
</tbody>
</table>

GENERAL SPECIFICATIONS
Transformer: One 100VA Split-Bobbin
Primary: 120 Vac
Secondary: 24 Vac w/ LED Indicator
24 Vac ON/OFF: Switch / Breaker (4 Amp)
Main Breaker ON/OFF: Switch / Breaker (10 Amp)
Outputs: (2) Aux. Output Wire (1)
Total Combined Output 9A
Approvals: Class II UL Listed UL916, C-UL Canada
Dimensions: W=5.15", H=4.25", D=3.75"
Weight: 4.5 lbs.

INPUT WIRES
"B10" Models Only
All Other Models

<table>
<thead>
<tr>
<th>Model</th>
<th>PRIMARY WIRES</th>
<th>OUTLET WIRES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block: 120 Vac White: Neutral Green: Ground</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OUTPUT WIRES
"B10" Models Only
"W" Models Only

<table>
<thead>
<tr>
<th>Model</th>
<th>PRIMARY WIRES</th>
<th>OUTLET WIRES</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 Vac, 1 Aux. Output Wire (Blue)</td>
<td>Block: 120 Vac White: Neutral Green: Ground</td>
<td></td>
</tr>
<tr>
<td>24 Vac, 2 Wires (White/Yellow)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES
Mounting plate included with all models. See page 130 for mounting instructions.

OPTIONAL FEATURES
- 120 Vac Convenience Outlets
- 24 Vac Output: Terminals or White/Yellow Wires
- 10 Amp Main Breaker Switch

1/2" Knockout
3/4" Knockout
120 Vac Convenience Outlet
Main Breaker On/Off Switch
24 Vac Terminals
Wiring Grommet
24 Vac Breaker On/Off Switch
LED Indicator
TOP
FRONT
SIDES
BOTTOM
Description

The Y63, Y64, Y65, Y66, and Y69 Series Transformers provide 24 VAC power for loads of 40 VA through 300 VA. These transformers are designed for use on digital controllers, gas controls, ignition systems, motor actuators, staging controls, and most other 24 VAC HVAC/R control systems.

The Y6x Series meets the requirements of UL 1585, UL 506, and CSA C22.2 No. 66, providing compliance in both the United States and Canada. The Y63, Y64, Y65, and Y66 transformers are listed as Class 2 transformers (UL 1585, CSA C22.2 No. 66). The Y69 is listed as a general purpose transformer (UL 506, CSA C22.2 No. 66).

Refer to the Series Y63, Y64, Y65, Y66, and Y69 Transformers Product Bulletin (LIT-125755) for important product application information.

Features

- Split-bobbin design provides best primary/secondary isolation
- Multi-tap primaries reduce stocking requirements and offer application flexibility
- Choice of foot, plate, or conduit hub mounting provides mounting flexibility
- Choice of primary voltages meets a wide range of power requirements from 24 VAC through 480 VAC
- Color-coded lead wires provide simplicity and standardization
- cULus listed or cURus recognized meets US and Canadian requirements for Class 2 transformers (Y63, Y64, Y65, and Y66) and general purpose transformers (Y69)

- Built-in, easy-reset circuit breakers eliminate replacement time and cost caused by burn-out (Y63, Y64, Y66, and Y69)

- Open frame Y65 models serve as ideal models when end bells are not required

Table 1: Y63, Y64, Y65, Y66, and Y69 Series Transformers

<table>
<thead>
<tr>
<th>Product Code Number</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y65G13-0</td>
<td>24</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65A13-0</td>
<td>120</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65A21-0</td>
<td>120</td>
<td>24</td>
<td>End bell holes 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>4 in. x 4 in. plate</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65T31-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>Foot 4 in. x 4 in. plate</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65T42-0</td>
<td>120/208/240</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Hub 4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y65T54-0</td>
<td>120/208/240</td>
<td>24</td>
<td>8 in. primary leads</td>
<td>8 in. secondary leads</td>
<td>Foot-skeleton</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y65S13-0</td>
<td>208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitings 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65F13-0</td>
<td>277/480</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65F42-0</td>
<td>277/480</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Hub 4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
</tr>
</tbody>
</table>

40 VA Capacity Transformers with Energy Limiting Type Overload Protection

50 VA Capacity Transformers with Circuit Breakers

<table>
<thead>
<tr>
<th>Product Code Number</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y63T22-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell Hole 8 in. primary leads</td>
<td>End bell Hole 8 in. secondary leads</td>
<td>4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y63T31-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>Foot 4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y63F22-0</td>
<td>277/480</td>
<td>24</td>
<td>End bell Hole 8 in. primary leads</td>
<td>End bell Hole 8 in. secondary leads</td>
<td>4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
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</table>

75 VA Capacity Transformers with Circuit Breakers

<table>
<thead>
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<th>Primary Voltage VAC</th>
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<th>Mounting</th>
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</thead>
<tbody>
<tr>
<td>Y66T12-0</td>
<td>120/208/240</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Foot</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y66T13-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitings 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y66F12-0</td>
<td>277/480</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Foot</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y66F13-0</td>
<td>277/480</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitings 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
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92 VA Capacity Transformers with Circuit Breakers

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<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
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<th>Secondary Connection</th>
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</thead>
<tbody>
<tr>
<td>Y64T15-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Internal Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
</tbody>
</table>
Table 1: Y63, Y64, Y65, Y66, and Y69 Series Transformers

<table>
<thead>
<tr>
<th>Product Code Number</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y64T21-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell holes</td>
<td>8 in. primary leads</td>
<td>Plate</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Three screw terminals (one is blind)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Y64T22-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell hole</td>
<td>8 in. primary leads</td>
<td>Plate</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>End bell hole</td>
<td>8 in. secondary leads</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Y69T15-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting</td>
<td>8 in. primary leads</td>
<td>Foot</td>
<td>cULus Power Transformer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Internal Fitting</td>
<td>30 in. secondary leads</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

300 VA Capacity Transformers with Circuit Breakers

1 4 in. x 4 in. plate and nut packed with transformer.

Y63, Y64, Y65, Y66, Y69 Series Transformers technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Input Power Requirements</td>
<td>24 to 480 VAC at 60 Hz</td>
</tr>
<tr>
<td>Full Load Secondary Voltage</td>
<td>23.5 VAC (Nominal)</td>
</tr>
<tr>
<td>Open Circuit Secondary Voltage (No Load)</td>
<td>27.0 VAC (Nominal)</td>
</tr>
<tr>
<td>Finish</td>
<td>End bells, frame, feet, and mounting plates are corrosion resistant</td>
</tr>
<tr>
<td>Ambient Operating Temperature</td>
<td>-40 to 104°F (-40 to 40°C)</td>
</tr>
<tr>
<td>Ambient Storage Temperature</td>
<td>-40 to 140°F (-40 to 60°C)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>Y63: 3.0 lb/1.4 kg, Y64: 4.9 lb/1.8 kg, Y65: 2.0 lb/0.9 kg, Y66: 3.0 lb/1.4 kg, Y69: 11.0 lb/5.0 kg</td>
</tr>
<tr>
<td>Agency Compliance</td>
<td>UL Listed Y63, Y64, Y65, Y66; File E95575, CCN's XOKV (US) and XOKV2 (Canada)</td>
</tr>
<tr>
<td></td>
<td>UL Recognized Y63, Y64, Y65, Y66; File E95575, CCN's XOKV2 (US) and XOKV8 (Canada)</td>
</tr>
<tr>
<td></td>
<td>UL Listed Y69; File E95188, CCN's XPTQ (US) and XPTQ7 (Canada)</td>
</tr>
<tr>
<td></td>
<td>All transformers are Class 2 except the Y69 (300 VA), which is listed as a power transformer.</td>
</tr>
</tbody>
</table>

Product warranty
This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms
Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Single point of contact

<table>
<thead>
<tr>
<th>APAC</th>
<th>Europe</th>
<th>NA/SA</th>
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<td>JOHNSON CONTROLS</td>
<td>JOHNSON CONTROLS</td>
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<td>C/O CONTROLS PRODUCT</td>
<td>WESTENDKOPF 3</td>
<td>507 E MICHIGAN ST</td>
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<tr>
<td>MANAGEMENT</td>
<td>45143 ESSEN</td>
<td>MELVILLE WI 53182</td>
</tr>
<tr>
<td>NO. 32 CHANG/JIANG RD</td>
<td>GERMANY</td>
<td>USA</td>
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<td>WUXI JIANGSU PROVINCE</td>
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<tr>
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<td>CHINA</td>
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</table>

Contact Information
Contact your local branch office: www.johnsoncontrols.com/locations
Contact Johnson Controls: www.johnsoncontrols.com/contact-us

3 Y63, Y64, Y65, Y66, and Y69 Series Transformers Catalog Page
FIRE SMOKE DAMPER SUBMITTAL

Project: International African American Museum
Location: Charleston, SC
Contractor: Superior Mechanical
Engineer: Arup USA, Inc.
1120 Connecticut Avenue N.W. - Suite 1110
Washington, DC 20036

Fire Smoke Dampers by Pottorff
**Model FSD-125R**
Combination fire smoke damper, 1-1/2 hour, UL class 1, round blade

**General construction**
- **Dimensions:** Nominal (approximately 1/8" (3) undersize)
- **Material:** Galvanized steel
- **Mount:** Vertical
- **Sleeve:** Type: Integral sleeve; Length (in): 16"; Gauge: 20; Clearance (in): 6"
- **Blade style:** 14 gauge, round
- **Blade action:** Single blade
- **Axles:** 3/4" (19) diameter plated steel
- **Linkage:** In the air-stream
- **Bearings:** Bronze oiite, sleeve-type
- **Seals:** Silicone blade edge seal
- **Fire closure device:** HS-10
- **Fire closure temperature (°F):** Primary: 165
- **Angles:** Holding plate

**Ratings**
- **UL 555 fire resistance rating:** 1-1/2 hour (vertical and horizontal)
- **UL 555S leakage class:** 1 [6 cfm/sq.ft. @ 4 in wg.] [(0.04 m³/s)/m²@ 1.0 kPa)]
- **Dynamic closure velocity (fpm):** 2000
- **UL555S rated pressure (in.wg.):** 4
- **Application temperature (°F):** 250

**Listings**
- **UL555SListing:** R11767
- **CSFM listing:** 3225-0368:112 and 3230-0368:113

**Details**

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Dimensions (in.xxx)</th>
<th>Sleeve</th>
<th>Actuator</th>
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<td></td>
<td>D</td>
<td>L (in)</td>
<td>Gauge</td>
</tr>
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<td>1</td>
<td>8</td>
<td>16</td>
<td>20</td>
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</table>

This submittal sheet reflects only the construction and options selected and is not indicative of all constructions and options that are available for the product. For more information, please contact your local representative or visit us at www.pottorff.com.

Information is subject to change without notice or obligation.

**Note:** Dimensions in parentheses ( ) are millimeters.
Model FSD-125R

Actuator and Sleeve Interference Details

**Dimensional Data**

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>D</th>
<th>L (in)</th>
<th>Ctl (in)</th>
<th>Qty</th>
<th>Model</th>
<th>Arrangement</th>
<th>F</th>
<th>T</th>
<th>S</th>
<th>P</th>
<th>Q</th>
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<td>1</td>
<td>8</td>
<td>16</td>
<td>6</td>
<td>1</td>
<td>FSLF120</td>
<td>Round</td>
<td>2.5</td>
<td>0</td>
<td>6</td>
<td>0</td>
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</table>

This submittal sheet reflects only the construction and options selected and is not indicative of all constructions and options that are available for the product. For more information, please contact your local representative or visit us at www.pottorff.com.

*Information is subject to change without notice or obligation.*

*Note: Dimensions in parentheses ( ) are millimeters.*

Project: International African America
Submit Date: 9/16/2021
Submitted By: ben.feldman

POTTORFF® 5101 Blue Mound Rd, Fort Worth TX 76106
Pressure drop testing

Pressure drop testing was performed in accordance with AMCA Standard 500-D. All data has been corrected to represent air density of 0.075 lb/ft³. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.

Ducted inlet and outlet
Model FSD-151
Combination fire smoke damper, 1-1/2 hour, UL class 1, airfoil blade

General construction
- **Dimensions:** Nominal (approximately 1/4" (6) undersize, sleeve thickness not included)
- **Material:** Galvanized steel
- **Frame:** 5" x 1" (127x25) hat channel, 13 gauge equivalent
- **Blade style:** 6" x 14 gauge equivalent gauge, airfoil
- **Blade action:** Parallel
- **Sleeve:** Type: Sleeve
- **Axles:** 1/2" (13) diameter plated steel hex
- **Linkage:** Concealed in frame
- **Bearings:** Stainless steel oilite, sleeve-type
- **Seals:** Blade: Silicone; Jamb: Flexible stainless steel
- **Fire closure device:** HS-10
- **Fire closure temperature (°F):** Primary: 165

Options
- **Mount:** Horizontal
- **Angles:** Type: 1-1/2 x 1-1/2 x 16 ga (2 sides)

Ratings
- **UL555FireResistanceRating:** 1-1/2 hour (vertical and horizontal)
- **UL 555S leakage class:** 1 [8 cfm/sq.ft. @ 4 in.wg.] [(0.04m³/s/m²@1.0 kPa)]
- **UL HN/LJ.5 Ventilation Duct Assemblies**
- **Dynamic closure velocity (fpm):** 2000
- **UL555S rated pressure (in.wg.):** 4
- **Application temperature (°F):** 250

Listings
- UL 555 and 555S listing: R11767
- CSFM listing: 3225-0368:115 and 3230-0388:116

Details

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
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<th>W x H</th>
<th>L (in)</th>
<th>Ctr (in)</th>
<th>Qty</th>
<th>Model</th>
<th>Volt</th>
<th>Pos</th>
<th>Orien</th>
<th>Loc</th>
<th>Power consumption (per actuator)</th>
<th>Transformer sizing (VA) (per actuator)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>3</td>
<td>70 x 20</td>
<td>16</td>
<td>20</td>
<td>6</td>
<td>2</td>
<td>FSNF120L</td>
<td>120V</td>
<td>PO</td>
<td>Perp</td>
<td>Ext/Int</td>
<td>23VA</td>
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<td>3</td>
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<td>3</td>
<td>66 x 22</td>
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<td>6</td>
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<td>14 x 8</td>
<td>16</td>
<td>20</td>
<td>6</td>
<td>1</td>
<td>FSTF120</td>
<td>120V</td>
<td>PO</td>
<td>Perp</td>
<td>Ext/Int</td>
<td>3.5VA</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>1</td>
<td>14 x 10</td>
<td>16</td>
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<td>1</td>
<td>FSTF120</td>
<td>120V</td>
<td>PO</td>
<td>Perp</td>
<td>Ext/Int</td>
<td>3.5VA</td>
</tr>
<tr>
<td>7</td>
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<td>10 x 8</td>
<td>16</td>
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<td>FSTF120</td>
<td>120V</td>
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<td>Perp</td>
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<tr>
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<td>120V</td>
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<td>Ext/Int</td>
<td>3.5VA</td>
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Information is subject to change without notice or obligation.

Note: Dimensions in parentheses () are millimeters.
Model FSD-151
The drawings and corresponding table illustrate the position of the damper when mounted in a factory sleeve and the relative space required for a given actuator. The standard mounting locations provide enough space for installation of retaining angles and duct connections.

### Dimensional Data

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>Dimensions (in.xxx)</th>
<th>Sections</th>
<th>Sleeve or Side Plate</th>
<th>Actuator</th>
<th>Dimensional data (in)</th>
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<tbody>
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<td></td>
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<td>70 x 20</td>
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<td>2 FSNF120L #31-2</td>
<td>0 0 4.5 2.625 3.375</td>
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<td>66 x 22</td>
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<td>0 0 4.5 2.625 3.375</td>
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<td></td>
<td></td>
<td>1</td>
<td>14 x 8</td>
<td>1 x 1</td>
<td>16 x 6</td>
<td>1 FSTF120 #11-1</td>
<td>4 1 4.5 2.625 3.375</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td>14 x 10</td>
<td>1 x 1</td>
<td>16 x 6</td>
<td>1 FSTF120 #11-1</td>
<td>1 3 4.5 2.625 3.375</td>
</tr>
<tr>
<td></td>
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<td>10 x 8</td>
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<td>1 FSTF120 #11-1</td>
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<tr>
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<td>1 FSTF120 #11-1</td>
<td>1 3 4.5 2.625 3.375</td>
</tr>
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Note: Dimensions in parentheses ( ) are millimeters.
Model FSD-151
Combination fire smoke damper, 1-1/2 hour, UL class 1, airfoil blade

General construction
- Dimensions: Nominal (approximately 1/4" (6) undersize, sleeve thickness not included)
- Material: Galvanized steel
- Mount: Vertical
- Frame: 5" x 1" (127x25) hat channel, 13 gauge equivalent
- Blade style: 6" x 14 gauge equivalent gauge, airfoil
- Blade action: Parallel
- Sleeve: Type: Sleeve
- Axles: 1/2" (13) diameter plated steel hex
- Linkage: Concealed in frame
- Bearings: Stainless steel ollite, sleeve-type
- Seals: Blade: Silicone; Jamb: Flexible stainless steel
- Fire closure device: HS-10
- Fire closure temperature (°F): Primary: 165

Options
- Angles: Type: 1-1/2 x 1-1/2 x 16 ga (2 sides)

Ratings
- UL555FireResistanceRating: 1-1/2 hour (vertical and horizontal)
- UL 555S leakage class: 1 [8 cfm/sq.ft @ 4 in.wg.] [(0.04m³/s/m²@1.0 kPa)]
- UL HNLJ.V-5: Ventilation Duct Assemblies
- Dynamic closure velocity (fpm): 2000
- UL555S rated pressure (in.wg.): 4
- Application temperature (°F): 250

Listings
- UL 555 and 555S listing: R11767
- CSFM listing: 3225-0368:115 and 3230-0368:116

Details

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>Dimensions (in.xxx)</th>
<th>Sections</th>
<th>Sleeve or Side Plate</th>
<th>Actuator</th>
<th>Power Consumption (per actuator)</th>
<th>Transformer size (VA) (per actuator)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>2</td>
<td>12 x 6</td>
<td>1 x 1 x 16</td>
<td>20</td>
<td>6</td>
<td>1</td>
<td>FSTF120</td>
<td>120V</td>
</tr>
</tbody>
</table>

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Note: Dimensions in parentheses ( ) are millimeters.
Model FSD-151

The drawings and corresponding table illustrate the position of the damper when mounted in a factory sleeve and the relative space required for a given actuator. The standard mounting locations provide enough space for installation of retaining angles and duct connections.

Dimensional Data

<table>
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<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>Dimensions (in.xxx)</th>
<th>Sections</th>
<th>Sleeve or Side Plate</th>
<th>Actuator</th>
<th>Dimensional data (in)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>W x H D Wide x High</td>
<td>L (in)</td>
<td>Clr (in)</td>
<td>Qty</td>
<td>Model</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td></td>
<td>12 x 6 1 x 1</td>
<td>16</td>
<td>6</td>
<td>1</td>
<td>FSTF120</td>
</tr>
</tbody>
</table>

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Information is subject to change without notice or obligation.

Note: Dimensions in parentheses ( ) are millimeters.
Pressure drop testing
Pressure drop testing was performed in accordance with AMCA Standard 500-D using the three configurations shown. All data has been corrected to represent air density of 0.075 lb/ft³. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.

Ducted inlet and outlet
AMCA Figure 5.3 illustrates a fully ducted damper. This configuration represents the lowest pressure drop of the three test configurations because entrance and exit losses are minimized by straight duct runs upstream and downstream of the damper.

Ducted inlet
AMCA Figure 5.2 illustrates a ducted damper exhausting air into an open area. This configuration has a lower pressure drop than Figure 5.5 because entrance losses are minimized by a straight duct run upstream of the damper.

Plenum mount
AMCA Figure 5.5 illustrates a plenum mounted damper. This configuration has the highest pressure drop because of extremely high entrance and exit losses due to the sudden changes of area in the system.

Air Performance
Pottorff certifies that the model FSD151 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings only.

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Information is subject to change without notice or obligation. Note: Dimensions in parentheses ( ) are millimeters.
Application
The HS-10 fire closure device employs a one-temperature, manually resettable, electric thermostat sensor to interrupt the electrical power to actuators used on fire/smoke dampers to permit the controlled closure of the dampers. The HS-10 is designed to replace the fusible link. The HS-10 allows for damper testing per all NFPA specifications. The damper will close once power is removed from the HS-10 and will automatically reopen once power is restored.

Wiring Diagram

Control Switch Function
Normal
Hot
L1

24 VAC, 120 VAC or 240 VAC Fused Circuit

The damper remains open except in either of the following situations:
1 - The smoke detector cuts the power to the “Power-Open” motor/actuator.
2 - An elevated duct temperature causes the fire closure device to cut power to the “Power-Open” motor/actuator. The damper will remain closed until the duct temperature has returned to a safe level. At that point the fire closure device can be manually reset, allowing the damper to be reopened.

Closed
The damper closes and remains closed regardless of any sensor signal.

Listings
UL 555 listing: R11767
New York City MEA listing: 295-98-E
Meets NFPA Standards: 80, 90A, 92A, 92B, 101, and 105
Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC
### Technical Data

<table>
<thead>
<tr>
<th></th>
<th>FSLF24(-S)(-FC) US, FSLF120(-S)(-FC) US</th>
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<tbody>
<tr>
<td>Power supply</td>
<td>FSLF24(-S)(-FC) US</td>
</tr>
<tr>
<td></td>
<td>120 VAC ± 10%, 50/60 Hz</td>
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<tr>
<td></td>
<td>FSLF120(-S)(-FC) US</td>
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<tr>
<td></td>
<td>24 VAC ± 20%, 50/60 Hz</td>
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<td>Power consumption</td>
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<td>24 VAC running</td>
<td>50/60 Hz, 15 VA</td>
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<tr>
<td>24 VAC holding</td>
<td>50/60 Hz, 3.5 VA</td>
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<td>24 VAC end stop</td>
<td>50/60 Hz, 25 VA</td>
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<tr>
<td>120 VAC running</td>
<td>50/60 Hz, 18 VA</td>
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<td>120 VAC holding</td>
<td>50/60 Hz, 6.5 VA</td>
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<td></td>
<td>1 amp slow blow</td>
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<tr>
<td></td>
<td>FSLF120</td>
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<td>0.25 amp slow blow</td>
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<td>Transformer sizing</td>
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<td>25 VA per 24 VAC actuator</td>
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<td>Electrical connection</td>
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<tr>
<td></td>
<td>3 ft, 18 ga, 2 color coded leads</td>
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<tr>
<td></td>
<td>FSLF120 US</td>
</tr>
<tr>
<td></td>
<td>3 ft, 18 ga, 3 color coded leads</td>
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<tr>
<td></td>
<td>FSLF-8 US</td>
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<td>3 ft, 18 ga, appliance cable</td>
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<tr>
<td></td>
<td>electronic throughout 0 to 95° rotation</td>
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<tr>
<td></td>
<td>auto-restart after temporary overload</td>
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<tr>
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<td>(FSLF120 US grounded enclosure)</td>
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<td>Control</td>
<td>microprocessor</td>
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<td>Angle of rotation</td>
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<tr>
<td>Torque</td>
<td>30 in-lb [3.5 Nm] minimum</td>
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<tr>
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<td>from 32°F to 350°F [0°C to 177°C]</td>
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<tr>
<td>Direction of rotation</td>
<td>spring</td>
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<td></td>
<td>can be selected by CCW/CW mounting</td>
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<tr>
<td>Position indication</td>
<td>visual indicator, 0° to 95°</td>
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<tr>
<td>Running time</td>
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<tr>
<td></td>
<td>&lt; 15 sec at rated voltage and torque</td>
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<tr>
<td></td>
<td>32°F to +122°F [0°C to +50°C]</td>
</tr>
<tr>
<td></td>
<td>spring</td>
</tr>
<tr>
<td></td>
<td>&lt; 15 seconds at rated voltage and torque</td>
</tr>
<tr>
<td>Humidity</td>
<td>5 to 95% RH non-condensing</td>
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<tr>
<td>Ambient temperature</td>
<td>32°F to 122°F [0°C to 50°C]</td>
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<td>Gears</td>
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<td>maintenance free</td>
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<td>ISO 9001</td>
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<td>3.4 lbs [1.5 kg], (+ 0.3 lbs [+0.14 kg])</td>
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<tr>
<td></td>
<td>FSLF120(-S) US</td>
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<tr>
<td></td>
<td>4.0 lbs [1.8 kg], (+ 0.3 lbs [+0.14 kg])</td>
</tr>
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### Dimensions (inches [mm])

- **FSLF24(-S)** US, FSLF120(-S)(-FC) US

---

**Application**

The type FSLF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555S and UL555S when tested as an assembly with the damper and will meet requirements of UBC for 15 second opening and closing. Square footage of damper operated will depend on make and model and the temperature required.

**Operation**

Mounting of the actuator to the damper axle shaft or jackshaft is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

**SAFETY NOTES**

The actuator contains no components which the user can replace or repair. 24 VAC Connect via safety isolating transformer, Class 2 supply.

**1/2" Threaded Connector**

Screw a conduit fitting into the actuator's metal bushing. Jacket the actuator's input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

**3/8" Flex Connector (-FC models)**

Mount the flexible conduit into the actuator's metal bushing by means of the provided screw with a torque of 1.2 Nm. Jacket the actuator's input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

---

*Individual Fusing or Breakers are not required by Belimo.*

The FSLF24 draws higher peak current when driving against any type of stop. Given the technology of fuses & breakers, this requires the value of fuse or breaker to be increased to avoid nuisance opening or tripping. A 1 amp slow blow should be used for 24VAC. A 0.25 amp slow blow should be used for 120VAC.
Typical Applications

The typical fire and smoke damper requires from 5-15 in-lb of torque per square foot at 250°F - 350°F under dynamic load (2000 rpm velocity). The FSFL is a single section damper actuator. For the multi-section dampers, use the FSNF series. This is a direct coupled actuator. If linkages are needed use the FSNF series.

Typical Specification

Smoke Control and Combination Fire and Smoke Control Damper Actuators

All smoke and combination fire and smoke dampers shall be provided with Belimo FSFL, FSNF, or FSAF actuators. No substitutions allowed. Damper and actuator shall have UL555S Listing for 250°F (350°F) and shall comply with UBC if required by local codes. Where proof of closure switches are required, blade switches, actuator auxiliary switches, or proximity switches are allowed.

Replacement Applications

The number one "equal or better" requirement for use as a replacement for obsolete defective motors is the UL555S listing of the Belimo actuator with the damper for the application. The local authority having jurisdiction sets the requirements. In some cases a permit and inspection may be required.

Go to [www.belimo.us/firesmoke](http://www.belimo.us/firesmoke) for a Cross Reference from old damper actuators to Belimo. Extensive retrofit installation instructions are available, along with technical training information.

CAUTION

Caution must be used when replacing failed motors with new Belimo actuators. Many old motors did not have internal springs and depended on external springs on the side of the damper or wrapped around the damper shaft to close the damper. Old motor springs must be removed or disabled. Do not remove fusible link springs if they had only fire and no smoke functions.

In some cases, a BAE 165 or equal thermal sensor must be installed.

Wiring Diagrams

**INSTALLATION NOTES**

- Provide overload protection and disconnect as required.

**CAUTION Equipment Damage!**

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

- No ground on 24 V models
- S4 makes to S6 when the actuator is powered open.
- For end position indication, interlock control, fan startup, etc., FSFL24-S US and FSFL120-S US incorporate two built-in auxiliary switches.
- Double insulated

**WARNING Live Electrical Components!**

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

![Parallel Actuator Wiring Diagram](image-url)

Auxiliary switch wiring for FSFL24-S US, FSFL120-S US
FSNF24(-S)(-FC) US, FSNF120(-S)(-FC) US
On/Off, Spring Return, 350°F for Half Hour, 15 Seconds Cycle Time

Application
The type FSNF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL2055 and UL3555 when tested as an assembly with the damper and will open and close in 15 seconds at 350°F. Square footage of damper operated will depend on make and model of damper and the temperature 250°F or 350°F.

Operation
Mounting of the actuator to the damper axle shaft or jackshaft (3/8" to 1.05") is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

-FC Models have the same electrical and mechanical characteristics except instead of a 1/2" conduit connector a 3/8" screw flex connector is supplied.

SAFETY NOTES
The actuator contains no components which the user can replace or repair.

1/2" Threaded Connector – Screw a conduit fitting into the actuator’s metal bushing. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

3/8" Flexible Connector Models (-FC Screw Connector) – Mount the flexible conduit into the actuator’s metal bushing by means of the provided screw with a torque of 0.9 ft-lb. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

Dimensions (inches [mm])
Standard:
1/2" to 1.05"
Optional*
3/8" to 3/4"

* with K4 US clamp

FSNF24-S US, FSNF120-S US, FSNF24-S FC, FSNF120-S FC

Auxiliary switch
2xSPST 7A resistant, 2.5A inductive at 120V or 250V. UL Approved, double-insulated, one switch at 10°, one at 85°

Accessibility
All AF/NF linkages and parts except ZG-102 may be employed.

* Individual Fusing or Breakers are not required by Belimo.

The FSNF24 draws higher peak current when driving against any type of stop. Given the technology of fuses & breakers, this requires the value of fuse or breaker to be increased to avoid nuisance opening or tripping. A 2.5 amp slow blow should be used for 24VAC. A 0.5 amp slow blow should be used for 120VAC.

Transformers
Note that while a 100VA transformer would handle 2 actuators, a 4A breaker is insufficient.
**Typical Applications**

**Multi-section Damper Assemblies**

The typical fire and smoke damper requires from 5-15 in-lb of torque per square foot at 250°F - 350°F under dynamic load (2400 fpm velocity). The FSNF will operate multi-section dampers using multiple actuators for multiple sections. Some of the methods used are shown below.

This is a direct coupled actuator. If linkages are needed use those for the FS1 series. Do not use the 2G-102 as close coupled actuators have a shortened life due to the high speed of the FSNF. Mounting at opposite ends of a jackshaft is OK.

![Diagram of single section damper](image1)

- **Single section for one FSNF actuator**
- **Blank-off Channel**

![Diagram of blank-off channel](image2)

- **Use of blank-off between damper sections to provide space for actuator mounting.**
- **Large multi-section assembly**

**Typical Specification**

**Smoke Control and Combination Fire and Smoke Control Damper Actuators**

All smoke and combination fire and smoke dampers shall be provided with Bellmo FSTF, FS1F, FSNF, or FS1AF actuators. No substitutions allowed.

Damper and actuator shall have UL555S Listing for 250°F (350°F) and shall comply with UBC if required by local codes.

Where proof of closure switches are required, blade switches, actuator auxiliary switches, or proximity switches are allowed if permitted by local codes.

**Replacement Applications**

The number one "equal or better" requirement for use as a replacement for obsolete defective motors is the UL555S listing of the Bellmo actuator with the damper for the application. The local authority having jurisdiction sets the requirements. In some cases a permit and inspection may be required.

Go to www.bellmo.us/firesmoke for a Cross Reference from old damper actuators to Bellmo. Extensive retrofit installation instructions are available, along with technical training information.

**CAUTION**

Caution must be used when replacing failed motors with new Bellmo actuators. Many old motors did not have internal springs and depended on external springs on the side of the damper or wrapped around the damper shaft to close the damper. Old motor springs must be removed or disabled. Do not remove fusible link springs if they had only fire and no smoke functions.

In some cases, a BAE 165 or equal thermal sensor must be installed.

---

**Wiring Diagrams**

**INSTALLATION NOTES**

- Provide overload protection and disconnect as required.
- **CAUTION Equipment Damage!**
  - Actuators may be connected in parallel.
  - Power consumption and input impedance must be observed.
  - For end position indication, interlock control, fan startup, etc., FSNF24-S US and FSNF120-S US incorporate two built-in auxiliary switches: 2 x SPDT, 7A (2.5A inductive) @ 125/250 VAC, UL Approved, 10°C and 85°C. Switch rating is for 250°F 1/2 hour only.

**WARNING Live Electrical Components!**

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

![Parallel Actuator Wiring Diagram](image3)

**Auxiliary switch wiring for FSNF24-S US, FSNF120-S US**
Torque min. 18 in-lb, for control of fire and smoke dampers

Application
The type FSTF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555 and UL555S when tested as an assembly with the damper Square footage of damper operated will depend on make and model.

Operation
Mounting of the actuator to the damper axle shaft or jackshaft is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) typically closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

SAFETY NOTE
Screw a conduit fitting into the actuator's bushing. Jacket the actuator's input and output wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

Dimensions (inches [mm])

Standard:
- 1/4" to 1/2"
- 1/4" to 5/16"

FSTF120-S US
- Auxiliary switch: 2 x SPST 3A (0.5A) @ 120 VAC, UL approved
  One fixed at 10° and one fixed at 60°
FSTF120(-S) US
On/Off, Spring Return, 120 VAC

### Accessories
- Tool-06: 8mm and 10 mm wrench
- KH-TF: Crank arm for up to 1/2" round shaft
- ZG-TF2: Crank arm adaptor kit for FSTF
- ZG-TF112: Mounting bracket, kit for FSTF
- ZS-100: Weather shield (metal)
- ZS-150: Weather shield (polycarbonate)
- 10379-00001: Limit stop

**NOTE:** When using FSTF120 US and FSTF120-S US actuators, only use accessories listed on this page or those provided by damper manufacturers.

For actuator wiring information and diagrams, refer to Belimo Wiring Guide.

### Typical Specification
On/Off fire and smoke spring return damper actuators shall be direct coupled type which require no crank arm and linkage and be capable of direct mounting to a shaft up to a 1/2" diameter and center a 1/2" shaft. The actuators must be designed so that they may be used for either clockwise or counterclockwise fail-safe operation. Actuators shall be protected from overload at all angles of rotation. If required, two SPDT auxiliary switches shall be provided. Actuators shall be cULus listed and have a 5 year warranty, and be manufactured under ISO 9001 International Quality Control Standards. Actuators shall be as manufactured by Belimo.

### Wiring Diagrams

#### INSTALLATION NOTES
- Provide overload protection and disconnect as required.
- **CAUTION Equipment Damage!** Actuators may be connected in parallel. Power consumption must be observed.
- Two SPST auxiliary switches for position indication. NC switch opens at 10° and NO switch closes at 80°

#### APPLICATION NOTES
- Meets cULus requirements without the need of an electrical ground connection.

**WARNING Live Electrical Components!** During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

---

#### On/Off wiring for FSTF120 US

---

#### On/Off wiring for FSTF120-S US
**VNTC TRAY CABLE - #16AWG NONSHIELDED**
**TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL TFN CONDUCTORS, PVC JACKET, 600VOLTS, UL 1277**

**CONSTRUCTION:**
- **CONDUCTOR**  SOFT DRAWN STRANDED BARE COPPER PER ASTM B-3.
- **INSULATION**  POLYVINYLCHLORIDE WITH NYLON JACKET TYPE TFN PER UL 62 (GASOLINE AND OIL RESISTANT).
- **CONDUCTOR IDENTIFICATION**  INSULATED CONDUCTORS ARE COLOR CODED PER IEC E METHOD 1 TABLE E-2.
- **ASSEMBLY**  CONDUCTORS ARE CABLED TOGETHER WITH SUITABLE TAPE SEPARATOR AS NEEDED.

**OVERALL JACKET**  SUNLIGHT RESISTANT, FLAME RETARDANT BLACK PVC PER UL 1277, WHICH PROTECTS AGAINST HEAT, FLAME, CHEMICALS, MOISTURE, AND MECHANICAL DAMAGE.

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<th>Insulation Thickness (in.)</th>
<th>Nylon Thickness (in.)</th>
<th>Jacket Thickness (in.)</th>
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*2/c is flat construction and TC only. TC-ER rating applies to 3 conductors or more.

**APPLICATION:**
Control, Signal, or Lighting circuits rated 600Volts. May be used as sunlight resistant, directly buried, and wet or dry locations. Per NEC Articles 336 and 392, approved for installation in:
1) raceways and cable tray systems including ladders, troughs, channels, solid bottom trays, and other similar structures,
2) lighting, control, and signal circuits,
3) aerial locations where supported by a messenger wire,
4) hazardous locations per Art.501 Class 1 Division 2, and
5) Class 1 circuits as permitted in NEC Article 725.

**STANDARDS:**
- UL Standard 1277 for Type TC Cables,
- Passes UL and IEEE383 70,000BTU Flame Test.
- UL Standard 62 for TFN Conductors.
- NEC Articles 336 and 392 for Tray Cable uses and constructions.
- TC-ER rated cables comply with crush and impact requirements of MC cables.
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 169  
Contract: Construction (CMR)(ARCHITECT)(ENGINEER)(OTHER)

Description of work to be performed: Cleanout for Floor Drain Relocation RFI 452
This change is associated with the labor and materials associated the relocation of the cleanouts for the second floor. Original design showed all cleanouts to be placed in the ceiling of the L1, however this would have required multiple access points. Due to estatics for L1 ceiling and functionality the cleanouts were moved to the L2 slab.

Justification: C - Errors and Omissions

Attachments: __________ J&A from Project Manager  
____________ Independent Cost Estimate  
____________ Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000) 
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed): $9,382.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: February 24, 2022  

(Circle One)  

Approved:  

Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Castellino, Moody Nolan  

(Circle One)  

Mike Risteski, Cumming Corp.
Date Submitted: November 3, 2021

To: Edmund Most
City of Charleston

Re: International African American Muesum

Floor Drain Move per RFI 452

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To change floor drain locations per RFI 452.</th>
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|------------------|-----------------|-------------------|-----------------------|--------------|

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<th>ROM Estimate for Entire PCO</th>
<th>Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
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<th>Evaluated - NO TIME IMPACT</th>
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<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
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<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
<th>Work Authorization is Requested By:</th>
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Submitted By: [Signature] 11/03/2021  $ 9,382

Contractor: TURNER BROWNSTONE

Requested Action:

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing  Price Only  Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

Dated  $ 9,382
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**Estimate Total**

$9,382

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**Trade Directs**

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<td>Equipment</td>
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<td>G.R. Self Perfor.</td>
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<td>Labor</td>
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**Description of Work**

General Summary of the Estimate

International African American Museum

Turner
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<th>Rate</th>
<th>Units</th>
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**Additional Scope of Work**

---

**General Requirements (G.R.s) & General Conditions (G.C.s)**

**Cor No:** 169

International African American Museum
Date: November 11, 2020

Attn:  AJ LoDato
       Walter Lewis
       Turner Construction

Project Name: IAAM
Project Number: 04-19-005

CR HIPP Reference:   PCO # 011
Project Reference:   Floor Cleanouts

Scope:
This change order proposal provides a price to relocate floor cleanouts on from L1 ceiling to L2 slab and L2 ceiling to L3 for the above referenced project per the detail takeoff and pricing of the attached takeoff.

Total Net Add $8,552.00

Thank you for the opportunity to offer this Proposal. If there are any questions, please contact our office.

Sincerely,
Vance Bailey
Assistant Project Manager
C.R. Hipp Construction, Inc.
(843) 744-4477
C. R. HIPP CONSTRUCTION COMPANY
COST DETAIL

To: Turner Construction Company
Attn: Walter Lewis
Project: International African American Museum
Subj: Floor Cleanouts

Job No.: 04-19-005
Contract No.: 47001126016
Date: 11/10/2020
COR No.: 11

MATERIAL AND EQUIPMENT COST
A. Material $2,844.78
B. Equipment $0.00
C. Miscellaneous material 10.00% of A $284.48
D. Escalation 0.00% of A & C $0.00
E. Subtotal $3,129.26
F. Sales Tax 9.00% $281.63
G. TOTAL $3,410.89

LABOR COST
A. Labor - Plumbers 60.00 Hours at Rate $32.64 per hour. $1,958.40
B. Labor - Sheetmetal 0.00 Hours at Rate $32.64 per hour. $0.00
C. Labor - Pipefitter 0.00 Hours at Rate $32.64 per hour. $0.00
D. Labor - Welder 0.00 Hours at Rate $32.64 per hour. $0.00
B. Foreman 8.00 Hours at Rate $35.72 per hour. $285.76
C. Superintendent 4.00 Hours at Rate $50.75 per hour. $203.00
D. Project Manager 0.00 Hours at Rate $48.78 per hour. $0.00
E. CAD / BIM 0.00 Hours at Rate $48.00 per hour. $0.00
F. Subtotal $2,447.16
G. Insurance and Taxes 42.00% $1,027.81
H. Site Overhead 0.00% of field labor cost. $0.00
I. Efficiency 0.00% of field labor cost. $0.00
J. TOTAL $3,474.97

OTHER COST
A. Rental Equipment $0.00
B. Small Tool Expense 3.00% of field labor. $104.25
C: Blueprint Reproduction $0.00
D: Engineering $0.00
E: Operations on More Than One Floor 0.00% of field labor. $0.00
F: Excavation and Backfill 0 cu.yds. at $0.00 per cu.yd. $0.00
G: Clean up 5.00% of field labor. $173.75
H: Distribution of Materials 5.00% of field labor. $173.75
I. TOTAL $451.75
C. R. HIPP CONSTRUCTION COMPANY
COST DETAIL CONTINUATION

Subj.: Floor Cleanouts

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<td>C.</td>
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<td>D.</td>
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<td>E.</td>
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TOTAL PRICE

$8,552.00

This change will require a 2 day time extension to complete contract.

This change proposal covers only direct costs associated with the change order work described above. We reserve the right to assess the impact of this change at a later date and to submit these costs as they become known. It is anticipated that all work required by this change will be done on a straight time basis. Overtime work, if required, will be invoiced as an additional item.

Please advise as soon as possible if we are to proceed,
FERGUSON ENTERPRISES LLC #34  
PO BOX 100286  
ATLANTA, GA 30384-0286

**EMAIL DUPLICATE INVOICE**

**Deliver To:** JOB AMT: $75,000  
**From:** Scott Windsor  
**Comments:**

---

**Please Contact With Questions:**  
919-594-6028

---

**Please refer to Invoice Number when making payment and remit to:**  
TOTAL DUE ---> 2784.15  

---

FERGUSON ENTERPRISES LLC #34  
PO BOX 100286  
ATLANTA, GA 30384-0286

---

**Sold To:**  
C R HIPP CONSTRUCTION  
PO BOX 2350  
MAIN ACCOUNT  
I AAM-AFRICAN AMERICAN MUSEUM

**Ship To:**  
CR HIPP INTL AFR AM MUSEUM  
14 WHARF SIDE STREET  
CHRIS BRINSON 843-364-9319  
CHARLESTON, SC 29401

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<td>71.57</td>
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**Invoice Sub-Total**  
2514.28

**Freight**  
39.99

**Tax**  
229.88

**Total Amt**  
2784.15

---

TOTAL DUE ---> 2784.15

---

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT https://www.ferguson.com/content/website-info/terms-of-sale

GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP" IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.
Vance Bailey

From: Chris Brinson
Sent: Tuesday, November 3, 2020 11:56 AM
To: D21.SouthCommercial@Ferguson.com; Joey Nelson <joey.nelson@crhippconstruction.com>, Scott.Windsor@Ferguson.com; Avery.Harbour@Ferguson.com
Cc: Joshua Carter; Vance Bailey
Subject: Re: IAAM - RFI 508 Move Cleanouts to 3rd floor

thanks ,

-------- Original message --------
From: D21.SouthCommercial@Ferguson.com
Date: 11/3/20 11:42 AM (GMT-05:00)
To: Chris Brinson <chris.brinson@crhippconstruction.com>, Joey Nelson <joey.nelson@crhippconstruction.com>,
D21.SouthCommercial@Ferguson.com, Scott.Windsor@Ferguson.com, Avery.Harbour@Ferguson.com
Cc: Joshua Carter <joshua.carter@crhippconstruction.com>, Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

Chris,

They were waiting on the sani-flo so they could ship all together. I told them to go ahead and get what they have coming. So we should definitely expect the 1400’s here tomorrow sometime now.

Thank you,

Nick Baird
Inside Sales I
South Commercial Team
Ferguson Enterprises, Inc. – Carolinas District
P: (843) 460-1769  F: (843) 554-8799
E: southcommercial@ferguson.com
www.ferguson.com

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**Have a Ferguson account? Download the Ferguson app for on-the-go access to your favorite ferguson.com features. Apple iOS devices or Android devices**

From: Chris Brinson <chris.brinson@crhippconstruction.com>
Sent: Tuesday, November 3, 2020 11:06 AM
To: Joey Nelson <joey.nelson@crhippconstruction.com>; Nicholas Baird <Nick.Baird@ferguson.com>; D21 South Commercial [Ferguson] <D21.SouthCommercial@Ferguson.com>; Scott Windsor <Scott.Windsor@Ferguson.com>; Avery Harbour <Avery.Harbour@Ferguson.com>
Cc: Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

How come we get these that quick and the ones I ordered on 10/28/2020 are still not here ,

From: Joey Nelson <joey.nelson@crhippconstruction.com>
Sent: Tuesday, November 3, 2020 9:24 AM
To: Nick.Baird@ferguson.com; D21.SouthCommercial@Ferguson.com; Scott.Windsor@Ferguson.com; Avery.Harbour@Ferguson.com
Cc: Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

15605-19-005

Thank you.

V/R,
Joey Nelson
Project Manager II
Office: 843-744-4477
Mobile: 843-364-9276

C.R. Hipp
Construction, Inc.

From: Nick.Baird@ferguson.com <Nick.Baird@ferguson.com>
Sent: Tuesday, November 03, 2020 9:10 AM
To: Joey Nelson <joey.nelson@crhippconstruction.com>; D21.SouthCommercial@Ferguson.com; Scott.Windsor@Ferguson.com; Avery.Harbour@Ferguson.com
Cc: Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

Joey,

They will show up to your shop tomorrow UPS.
Let me know a PO whenever you can! Thanks!

Thank you,

Nick Baird
Order Confirmation # 7304829
FERGUSON ENTERPRISES LLC #23
4711 RIVERS AVE
N CHARLESTON, SC 29405-6645

Phone: 843-747-6301
Fax: 843-554-8799

Order No.: 7304829
Order Date: 11/03/20
Ship Via.: UPS GROUND SERVICE
Terms.....: NET 10TH PROX
Ship To....: C R HIPP CONSTRUCTION INC
            4981 DORCHESTER ROAD
            TAG IAAM JOB
            N CHARLESTON, SC 29418

Sold To.....: C R HIPP CONSTRUCTION
             PO BOX 71147
             MAIN ACCOUNT
             IAAM-AFRICAN AMERICAN MUSEUM
             N CHARLESTON, SC 29415

Writer.......: NJB
Req Date: 11/05/20
Job Name.: IAAM-AFRICAN AMERICAN MUSEUM

Cust PO#: RFI 508

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<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Net Price</th>
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<tr>
<td></td>
<td>TAG IAAM MUSEUM</td>
<td></td>
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<td></td>
<td>ATTN: JOEY NELSON</td>
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<tr>
<td>ZZ14004NH</td>
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<td>145.255</td>
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Subtotal: $290.51
Inbound Freight: $0.00
Tax: $26.15
Order Total: $316.66
WARRANTY PROVISIONS
The purchaser's sole and exclusive warranty is that provided by the manufacturer, if any. Seller makes no express or implied warranties. SELLER DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL SELLER BE LIABLE FOR ANY INCIDENTAL, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE OPERATION OR USE OF THE PRODUCT. SELLER'S LIABILITY, IF ANY, SHALL BE LIMITED TO THE NET SALES PRICE RECEIVED BY SELLER. Complete Terms and Conditions are available upon request or can be viewed on the web at https://www.ferguson.com/content/website-info/terms-of-sale

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

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Enter the following link to complete a survey about your orders: https://survey.medallia.com/?bidsorder&fc=23&on=362880

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**Have a Ferguson account? Download the Ferguson app for on-the-go access to your favorite ferguson.com features. Apple iOS devices or Android devices**

From: Joey Nelson <joey.nelson@crhippconstruction.com>
Sent: Tuesday, November 3, 2020 7:38 AM
To: D21 South Commercial [Ferguson] <D21.SouthCommercial@Ferguson.com>; Scott Windsor <Scott.Windsor@Ferguson.com>; Nicholas Baird <Nick.Baird@ferguson.com>; Avery Harbour <Avery.Harbour@Ferguson.com>
Cc: Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: FW: IAAM - RFI 508 Move Cleanouts to 3rd floor
Importance: High

Good Morning, We need to order the following as soon as possible....

2-4” Z1400 NH FLOOR CLEAN OUTS

V/R,
Joey Nelson
Project Manager II
Office: 843-744-4477
Mobile: 843-364-9276

C.R. Hipp Construction, Inc.

From: Chris Brinson <chris.brinson@crhippconstruction.com>
Sent: Monday, November 02, 2020 3:53 PM
To: Joey Nelson <joey.nelson@crhippconstruction.com>
Cc: Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

Per change, need this asap, thanks
2-4" Z1400 NH FLOOR CLEAN OUTS

From: Joey Nelson <joey.nelson@crhippconstruction.com>
Sent: Monday, November 2, 2020 2:09 PM
To: Chris Brinson <chris.brinson@crhippconstruction.com>; Chris Dangerfield <chris.dangerfield@crhippconstruction.com>
Cc: Tim Cox <tim.cox@crhippconstruction.com>
Subject: IAAM - RFI 508 Move Cleanouts to 3rd floor

Chris,
Per attached RFI 508 clean outs in the overhead of the lobby of 2nd floor are to be routed up to the floor of the 3rd floor. Attached drawing shows locations.

V/R,
Joey Nelson
Project Manager II
Office: 843-744-4477
Mobile: 843-364-9276

C.R. Hipp Construction, Inc.
MEP - Confirmation of Cleanouts on L2 slab

TO: Bernard Costantino (Moody Nolan)
    Julie Cook, AIA (Moody Nolan)
FROM: Daron Pardine (Turner Construction (ATL))
       Charleston, South Carolina
DATE INITIATED: 10/01/2020
LOCATION: DUE DATE: 10/16/2020
PROJECT STAGE:
SUB JOB:
COST IMPACT:
DRAWING NUMBER:
LINKED DRAWINGS:
RECEIVED FROM: Daron Pardine (Turner Construction (ATL))

COPIES TO:
Sarah Aarrons (ARUP), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Alex Nash (Turner Construction (CAR)), Jonathan Roberts (Cumming), Stephanie Terault (ARUP)

Question from Daron Pardine (Turner Construction (ATL)) at 04:39 PM on 10/01/2020

As discussed and reviewed through the L1 ceiling drawings, it is our understanding that the cleanouts that would require access panels in the L1 Sto ceiling are to be relocated to the L2 slab to be accessible from above and delete the requirement for access through the ceiling.

Please confirm,

Awaiting an Official Response

All Replies: [CONFIRMED. TB TO COORDINATE CLEANOUT WITH FLOORING CONTRACTORS FOR OPTIONS FOR COVERS.]

BY                                DATE                                COPIES TO
Moody Nolan
300 SPRUCE ST, STE 300,
COLUMBUS, OH 43215
Attention: Bernie Costantino

Subject: (HOT) MEP - Plumbing | Cleanout Locations Shift to L3

Information Requested:
Per the attached markup, there would be 2 access panels in the lobby that are required to access cleanouts for the sanitary system.

We suggest moving these cleanouts up to L3 similar to what we did on L1/L2.

Please confirm this is acceptable.

Responses
Joel Ramos - Plumbing
Arup have no objection with the proposed location of cleanout in the 3rd floor level mechanical room. Install cleanout per requirement of the code. Coordinate all cleanout locations with Architect.

MN agrees to move to 3rd floor mechanical room.
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 171
Contract: Construction

Description of work to be performed: Pumphouse Sidewalk
This change is associated with the materials and the labor for the removal of the old sidewalk in front of the
pumphouse and replacing it with new sidewalk. The existing sidewalk slopes were no longer within the code
requirements

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error

(Indicate Reason for Change Proposal)

Justification: A - Customer Requested Change

Attachments:
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

X

Proposal Cost (not to exceed): $10,466.00 Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Mike Risteski, Cumming Corp.

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

Kosof L. Laxiner
Date Submitted: November 15, 2021

To: Edmund Most  
City of Charleston

Re: International African American Museum  
Additional Pumphouse Sidewalk

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | To demo out the old and install a new sidewalk at the Front (West) elevation of the pump house tying the new sidewalks. |

| Reason: | Owner Directive |
| Pricing: | ROM Estimate of GR’s & Insurances |
| Time Impact: | Evaluating Potential for Time Impact |
| | Evaluated - NO TIME IMPACT |

Submitted By: Walter Lewis, Project Engineer  
Contractor: TURNER BROWNSTONE  
11/15/2021 $10,466 Amount Requested

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Amount Approved $10,466
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<th>Description</th>
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**Trade Directs**

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<td>Material(s) &amp; Equipment</td>
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<tr>
<td>Self-Perform Labor</td>
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<td><strong>Total</strong></td>
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**Cor No:** 171

General Summary of the Estimate

International African American Museum

Turner
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<th>TRIB DIRECTS</th>
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**DESCRIPTION**

To Demo old sidewalk and install a new sidewalk

**DISCRIPTION**

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<th>GENERAL REQUIREMENTS (G.R.) &amp; GENERAL CONDITIONS (G.C.)</th>
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**TOTAL**

$9,666.00

**SUBTOTAL**

$9,666.00
October 04, 2021
International African American Museum - IAAM

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<th>NOTES</th>
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<tr>
<td><strong>SIDEWALKS &amp; CURB</strong></td>
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<td>$1,948.07</td>
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BID SUMMARY

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<td>Total</td>
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Client Signature: ___________________________________    Date: ____________
# Change Order Proposal Review Form

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 2/24/2022

**Contractor:** Turner Construction Company  
**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 173  
**Contract:** Construction

---

## Description of work to be performed:

**Plant Changes per City Recommendations**

This change is associated with the materials and labor for the changes of the planting as per the city recommendations.

- A - Customer Requested Change
- B - Code/Regulatory Agency Required Change
- C - Errors and Omissions
- D - Replacing Unsuitable Soils
- E - Soils Related Change Other
- F - Unforeseen Conditions
- G - Time Related Change
- H - Liquidated Damages
- I - Value Engineering Change
- J - Exercising Pre-Priced Option (Allowance)
- K - Accounting Error

(Indicate Reason for Change Proposal)

---

## Justification:

**A - Customer Requested Change**

---

### Attachments:

- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

---

### Cost Estimate (Expected to Exceed $10,000):

X Change Proposal Request from CMR with Detailed Backup

---

### Proposal Cost (not to exceed):

$7,794.00 Owner Contingency Allow. Bal.

---

### Time Extension Requested:

Time Extension Recommended:

---

### Special Circumstances:

---

### Consequence of Rejection:

---

### Comments by Supervisor:

---

---

### Approved:

- Rick Holt, Cumming Corp.
- Robert Faust, Cumming Corp.
- Edmund V. Most, City of Charleston
- Bernard Costantino, Moody Nolan

---

### Decision needed by:

February 24, 2022

- Mike Risteski, Cumming Corp.
Date Submitted: **November 17, 2021**

To: **Edmund Most**  
**City of Charleston**

Re: **International African American Muesum**  
**Plant Changes in Front of the Building**

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

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<thead>
<tr>
<th>Work Description:</th>
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<tr>
<td>To install the 15 gallon Plants single row hedge on the West side of the building.</td>
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<th>Design Issue</th>
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<td>X Owner Directive</td>
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<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
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<th>Work Authorization is Requested By:</th>
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<td>X Evaluating Potential for Time Impact</td>
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<tr>
<th>Submitted By:</th>
<th>Contractor: <strong>TURNER BROWNSTONE</strong></th>
<th>Requested Action:</th>
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<td>Walter Lewis Project Engineer</td>
<td>11/17/2021</td>
<td>Authorized to Proceed While Pricing</td>
<td>Price Only</td>
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<th>Program Manager: <strong>CUMMING</strong></th>
<th>Authorized Action:</th>
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<td></td>
<td>/ /</td>
<td>Authorized to Proceed While Pricing</td>
<td>Price Only</td>
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<tr>
<th>Approved By:</th>
<th>Owner: <strong>City of Charleston</strong></th>
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<tr>
<td>Edmund Most</td>
<td>/ /</td>
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<tr>
<td>Item Description</td>
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<td>Overhead and Profit (Taken off of direct work cost)</td>
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</table>

**Additional Scope of Work**

1. To demo old sidewalk and install a new sidewalk

<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>$7220.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GENERAL REQUIREMENTS (6R.5) &amp; GENERAL CONDITIONS (GC.5)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COR No.: 173</th>
</tr>
</thead>
</table>

International African American Museum
International African American Museum  
Tucker Abbott  
4601 Park Road, Suite 601  
Charlotte, NC 28209  

RE: CO Podocarpus Adds in Front  

Proposal Summary:  

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit Type</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Item Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>PODOCARPUS OPTION 2 SINGLE HEDGE IN FRONT</td>
<td>15 gal</td>
<td>60.00</td>
<td>$120.00</td>
<td>$7,200.00</td>
<td>$7,200.00</td>
</tr>
<tr>
<td>Plant Installation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Podocarpus - Installed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Greenery, LLC agrees to guarantee all plants, which are covered by an automatic sprinkler system for one full year. Plants not covered by a sprinkler system are guaranteed to be healthy and properly planted at the time of installation. Guarantee shall not apply to plants the loss of which is due to abuse, vandalism, animal, fire, lightning, hail, vehicular damage, freeze or Acts of God. The Greenery, LLC does not guarantee the life of transplanted plants.

The Greenery, LLC is not responsible for damage to underground irrigation lines, pipes, wiring, invisible fencing, or lighting systems whose locations are not marked by homeowner or property manager prior to work beginning.

Prices quoted will be honored for 30 days from date of proposal.

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are satisfactory and are hereby accepted. A signed copy of this proposal will be returned as my authorization to do the work as specified.

Signature __________________________  Date ________________

Subtotal $7,200.00  
Sales Tax (9.00%) $0.00  
Total $7,200.00  

Phone 843-884-0084  
www.thegreeneryllc.com  
Fax 843-216-0437
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 174  
Contract: Construction  

Description of work to be performed: Raise of Serpentine Walls  
This change is associated with the labor and materials for the raising of the serpentine walls in front of the substations and the fountain equipment. The original wall height was not able to cover all of the additiona equipment as planed per the design drawings. To keep the design intent the 2 middle serpentine walls had to increase in height.  

Justification: F - Unforeseen Conditions  

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed): $12,992.84  
Owner Contingency Allow. Bal.  

Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: January 10, 2022  

(NO) (YES)  
(Circle One)  

Mike Risteski, Cumming Corp.  

Approved:  

(NO) (YES)  
(Circle One)  

Rick Holt, Cumming Corp.  

(NO) (YES)  
(Circle One)  

Robert Faust, Cumming Corp.  

(NO) (YES)  
(Circle One)  

Edmund V. Most, City of Charleston  

(NO) (YES)  
(Circle One)  

Bernard Costantino, Moody Nolan  

(Robert Laubmeier)
From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Thursday, November 4, 2021 10:28 AM
To: Mike Risteski
Cc: Robert H. Faust
Subject: RE: Price to raise walls 2 and 3

EXTERNAL EMAIL: Use caution with any response, links, or attachments.

Mike,

Per the as-builts the walls around the substations are equal amount high as the substation so we are essentially at the correct elevation. I provided the AS-Builts yesterday.

Thanks
Walt

From: Mike Risteski <mristeski@cumming-group.com>
Sent: Tuesday, November 2, 2021 4:17 PM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>
Cc: Robert H. Faust <bfaust@cumming-group.com>
Subject: RE: Price to raise walls 2 and 3

EXTERNAL EMAIL - Please Handle Cautiously

Hi Walt,

I do not disagree that the change of the wall height at this time is a change for the mason. However, I do not believe that the cost should be covered by the owner. The substations were installed at a height different from what the contract drawings were indicating. It is greatly appreciated that you have increased the elevation of the substations so they are above the flood plain, however the same should have been done with the footing height of the serpentine walls since the entire design intent was for the walls to cover and hide the substations.

Thank You

MIKE RISTESKI, PMP
Project Manager

CUMMING
Building Value Through Expertise

mristeski@cumming-group.com
The information contained in this electronic message is confidential. If the reader of this message is not the intended recipient, you are hereby notified that any use, dissemination, distribution or reproduction of this communication is strictly prohibited. If you have received this communication in error, please delete it immediately and please advise the sender.

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Monday, November 1, 2021 4:16 PM
To: Mike Risteski <mristeski@cumming-group.com>
Subject: FW: Price to raise walls 2 and 3

EXTERNAL EMAIL: Use caution with any response, links, or attachments.

Revised Price to raise the two middle walls after all walls are repaired.

From: Will Patterson <wpatterson@patconind.com>
Sent: Monday, November 1, 2021 3:04 PM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: Price to raise walls 2 and 3

EXTERNAL EMAIL - Please Handle Cautiously

Total price is $12,992.84.

Will Patterson
Project Manager
803-315-9998
803-783-4123
PatCon Industries
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 175  
Contract: Construction (ARCHITECT ENGINEER OTHER)  

Description of work to be performed:  
Added Trench Drain to Memorial Wall Walkway  
This change is associated with the labor and materials associated with the scope of adding a trench  
drain to the memorial wall walkway to the furthest west point. The original design drawing s show a circular  
drain in the middle of the path. Once the walkway was completed it was decided that a new drain was  
needed to the most west point of the walkway.  

Justification: C - Errors and Omissions  

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup X  

Proposal Cost (not to exceed): $8,346.00 Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: February 24, 2022  

(Circle One)  

[Signatures]  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantine, Moody Nolan  
Robert Laucher
Date Submitted: November 17, 2021

To: Edmund Most
City of Charleston

Re: International African American Museum
Additional Trench Drain at Woodwalk.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To supply and install a new trench drain in the Wood Walk way to allow water to be removed from the sub slab area.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reason:</td>
<td>Design Issue</td>
</tr>
<tr>
<td>Pricing:</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
</tr>
<tr>
<td></td>
<td>Work Authorization is Requested By:</td>
</tr>
<tr>
<td>Work Has Completed</td>
<td>Work Has Commenced 8/or is Ongoing</td>
</tr>
</tbody>
</table>

Submitted By: Contractor: TURNER BROWNSTONE 11/17/2021 $ 8,346 (Amount Requested)

Reviewed By: Program Manager: CUMMING Dated

Approved By: Owner: City of Charleston $ 8,346 (Amount Approved)
General Summary of the Estimate

International African American Museum

Turner
**Additional Scope of Work**

To demo old sidewalk and install a new sidewalk.

**Description**

<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
<th>GENERAL REQUIREMENTS (G.R.) &amp; GENERAL CONDITIONS (G.C.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COR No.**

175

International African American Museum

Turner
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Estimated Quantity</th>
<th>Unit</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' Trench Drain Under Boardwalk</td>
<td>1.00</td>
<td>LS</td>
<td>$7,709.64</td>
</tr>
</tbody>
</table>

Total Bid Price: $7,709.64

Notes:
- See attached backup.

---

**ACCEPTED:**
The above prices, specifications and conditions are satisfactory and are hereby accepted.

**Buyer:**

**Signature:**

**Date of Acceptance:**

---

**CONFIRMED:**

Gulf Stream Construction Company Inc

**Authorized Signature:**

**Estimator:** Ken Allen
(843) 409-5914   kallen@gulfstreamconstruction.com
# Cost Detail With Pricing

**Project Name:** IAAM - COR37 - Additional Trench Drain  
**Job Number:** 191400.  
**Bid As:** Subcontractor  
**Estimator:** Ken Allen  
**Project Address:** 14 Wharfside Street, Charleston, SC  
**Completion Date:**  
**Customer:** Turner Construction Company  
**Billing Address:** 4601 Park Road, Suite 601  
**Phone:** (704) 319-4854  
**Contact:** Bobby Teachey

## Pay Items

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>UM</th>
<th>Direct Cost</th>
<th>Total Direct Cost</th>
<th>Unit Price</th>
<th>Total Price</th>
<th>Markup Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' Trench Drain Under Boardwalk</td>
<td>1.00</td>
<td>LS</td>
<td>$6,539.95</td>
<td>$6,539.95</td>
<td>$7,709.64</td>
<td>$7,709.64</td>
<td>15.00%</td>
</tr>
<tr>
<td>Demo Concrete (0.22 LS/PH, 0.50 DY)</td>
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<td>LS</td>
<td>$1,550.44</td>
<td>$1,550.44</td>
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<td></td>
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</tr>
<tr>
<td>Foreman</td>
<td>5.00</td>
<td>HR</td>
<td>$68.82</td>
<td>$344.08</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Grade Oper II</td>
<td>5.00</td>
<td>HR</td>
<td>$40.32</td>
<td>$201.59</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Operator II</td>
<td>5.00</td>
<td>HR</td>
<td>$33.54</td>
<td>$167.69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator Laborer II [2]</td>
<td>5.00</td>
<td>HR</td>
<td>$28.40</td>
<td>$284.02</td>
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<tr>
<td>Loader</td>
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<td>HR</td>
<td>$75.11</td>
<td>$375.55</td>
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<tr>
<td>Mini Hoe HP</td>
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<td>HR</td>
<td>$35.50</td>
<td>$177.50</td>
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<td></td>
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<tr>
<td>Install Trench Drain (0.22 LS/PH, 0.50 DY)</td>
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<td>LS</td>
<td>$2,549.79</td>
<td>$2,549.79</td>
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<tr>
<td>Excavator With Hammer</td>
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<td>HR</td>
<td>$77.62</td>
<td>$1,552.40</td>
<td></td>
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</tr>
<tr>
<td>Foreman</td>
<td>5.00</td>
<td>HR</td>
<td>$68.82</td>
<td>$344.08</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Grade Oper II</td>
<td>5.00</td>
<td>HR</td>
<td>$40.32</td>
<td>$201.59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator II</td>
<td>5.00</td>
<td>HR</td>
<td>$33.54</td>
<td>$167.69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator Laborer II [2]</td>
<td>5.00</td>
<td>HR</td>
<td>$28.40</td>
<td>$284.02</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Trench Drain 3&quot; And Decorative Grate (FORTLINE)</td>
<td>6.00</td>
<td>LF</td>
<td>$149.39</td>
<td>$896.33</td>
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</tr>
<tr>
<td>PVC 2&quot; Pipe</td>
<td>20.00</td>
<td>LF</td>
<td>$2.17</td>
<td>$43.40</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Trench Drain (Pour In Place)</td>
<td>1.00</td>
<td>CY</td>
<td>$1,500.00</td>
<td>$1,500.00</td>
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<td></td>
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## Indirect Items

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>UM</th>
<th>Indirect Cost</th>
<th>Total Indirect Cost</th>
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<tbody>
<tr>
<td>Business License</td>
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<td>$26.40</td>
<td>$26.40</td>
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11/11/2021 4:41:21 PM
### Direct Cost Totals

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<th></th>
<th>Amount</th>
<th>Percent of Direct Cost</th>
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<tbody>
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<td>Labor</td>
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</tr>
<tr>
<td>Equipment Owned</td>
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<td>32.19%</td>
</tr>
<tr>
<td>Equipment Rented</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Purchased</td>
<td>$939.73</td>
<td>14.37%</td>
</tr>
<tr>
<td>Subcontracted</td>
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</tr>
<tr>
<td>Trucking Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Hired</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Plug</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td><strong>Direct Cost</strong></td>
<td><strong>$6,539.95</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Indirect Cost Totals

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
<th>Percent of Indirect Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Equipment Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Equipment Rented</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Owned</td>
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</tr>
<tr>
<td>Materials Purchased</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Subcontracted</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Owned</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Hired</td>
<td>$0.00</td>
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<tr>
<td>Miscellaneous</td>
<td>$26.40</td>
<td>100.00%</td>
</tr>
<tr>
<td>Plug</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td><strong>Indirect Cost</strong></td>
<td><strong>$26.40</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Pay Item Summary

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
<th>Percent of Bid Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Direct Cost</td>
<td>$6,539.95</td>
<td>84.83%</td>
</tr>
<tr>
<td>Total DC Adds/Cuts</td>
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<td>0.00%</td>
</tr>
<tr>
<td>Total Indirect Cost</td>
<td>$26.40</td>
<td>0.34%</td>
</tr>
<tr>
<td>Total Bond</td>
<td>$137.69</td>
<td>1.79%</td>
</tr>
<tr>
<td><strong>Total Overall Cost</strong></td>
<td><strong>$6,704.04</strong></td>
<td><strong>86.96%</strong></td>
</tr>
<tr>
<td>Total Overhead</td>
<td>$0.00</td>
<td>0.00%</td>
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<tr>
<td>Total Profit</td>
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<td>13.04%</td>
</tr>
<tr>
<td>Total Margin</td>
<td>$1,005.60</td>
<td>13.04%</td>
</tr>
<tr>
<td><strong>Total Bid Price</strong></td>
<td><strong>$7,709.64</strong></td>
<td></td>
</tr>
</tbody>
</table>
### Change Order Proposal Review Form

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 2/24/2022  
**Contractor:** Turner Construction Company  
**Project:** CP 1425 International African American Museum  
**Proposal No.:** Change Order Request No. 178.1  
**Contract:** Construction

---

**Description of work to be performed:**  
This change is associated with the labor and materials for a few change orders which were necessary for the completion of the project.

- Elevator Emergency Power had to be connected to the generator backed up circuits, requested by elevator inspector.
- Cat Walk Gate needs to be installed on the roof walkway for access to the mechanical rooms.
- Atrium stairs railing had to change the method of attachment for the wood railing. The original method was not in code compliance.

---

**Additional Change Orders for Completion**  
- Elevator emergency power changes: $12,000.00
- Cat walk gate: $8,000.00
- Atrium Lower Stair Rail: $10,000.00

**Total:** $30,000.00

---

**Justification:**  
A - Customer Requested Change

---

**Attachments:**  
1. J&A from Project Manager
2. Independent Cost Estimate
3. Pre-Negotiation Position (PNP)
4. Cost Estimate (Expected to Exceed $10,000)
5. Change Proposal Request from CMR with Detailed Backup

---

**Proposal Cost (not to exceed):** $30,000.00  
**Owner Contingency Allow. Bal.:**

---

**Time Extension Requested:**

---

**Special Circumstances:**

---

**Consequence of Rejection:**

---

**Comments by Supervisor:**

---

**Decision needed by:** February 24, 2022

---

**Approved:**

- Rick Holt, Cumming Corp.
- Robert Faust, Cumming Corp.
- Edmund V. Most, City of Charleston
- Bernard Costantino, Moody Nolan
- Robert Laxheimer

---

**(NO) (YES) (Circle One)**  
**(NO) (YES) (Circle One)**  
**(NO) (YES) (Circle One)**  
**(NO) (YES) (Circle One)**

---

**Mike Risteski, Cumming Corp.**
Date Submitted: February 15, 2022

To: Edmund Most
City of Charleston

Re: International African American Muesum

Additional Owner Requests

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide additional Scopes of work (per Back Sheet) as Requested by the owner.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td></td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td>Work Authorization is Requested By:</td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis Project Engineer
02/15/2022

Contractor: TURNER BROWNSTONE

Requested Action:
Authorized to Proceed While Pricing | Price Only | Do Not Proceed or Price

$45,000

$30,000.00

Reviewed By: Program Manager: CUMMING

Authorized Action:
Authorized to Proceed While Pricing | Price Only | Do Not Proceed or Price

$45,000

$30,000.00

Approved By: Owner: City of Charleston

$30,000.00
### Estimate Totals

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>$0.00</td>
<td>3.25%</td>
</tr>
</tbody>
</table>
| Procure | $0.00 | 0.45%
| Performance and Payment Bond | $0.00 | 0.3%
| Builders Risk | $0.00 | 0.02%
| Subrogation | $0.00 | 0.02%
| CCP | $0.00 | 0.2%

**Subtotal:** $45,000

---

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Directs</td>
<td>$45,000.00</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Subtotal Trade Directs:** $45,000.00

---

**COR No.:** 178

General Summary of the Estimate

International African American Museum

**Turner**
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>TRADING DIRECTS</th>
<th>TRADE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Requirements (GR's) &amp; General Conditions (GC's)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$8,000.00</td>
<td></td>
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<tr>
<td>8,000.00</td>
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<td></td>
</tr>
<tr>
<td>$12,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12,000.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COR NO: 178

Turner

Detailed Estimate of Directs
International African American Museum
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 181
Contract: Construction

Description of work to be performed: Drywall, Framing, Painting Scope Adds
This change is associated with the materials and labor for additional miscellaneous scope added throughout the project. Incorporated in this price are all miscellaneous changes from all ASI, Bulletins and RFI which had to be reworked due to coordination issues.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $130,475.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Approved:

(Rick Holt, Cumming Corp.)

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Robert Larkamer
Dear Edmund Most,

To: Edmund Most  
City of Charleston

Re: International African American Muesum
Drywall Added Scope

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide additional Scopes of work for the Drywall Contractor per changes in the documents.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
<th>Owner Directive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Code / Regulatory</td>
</tr>
<tr>
<td></td>
<td>Unforeseen Condition</td>
</tr>
<tr>
<td></td>
<td>Design Issue</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ROM Estimate for Entire PCO</td>
</tr>
<tr>
<td></td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Evaluated - NO TIME IMPACT</td>
</tr>
<tr>
<td></td>
<td>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
</tr>
</thead>
</table>

Submitted By: Walter Lewis  
Contractor: TURNER BROWNSTONE

02/26/2022

$ 130,475
Amount Requested

Requested Action:

- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Authorized Action:

- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

Dated

$ 130,475
Amount Approved
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate (%)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>3.25%</td>
<td>$33,919.18</td>
</tr>
<tr>
<td>Procure</td>
<td></td>
<td>$30,000.00</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td></td>
<td>$4,900.00</td>
</tr>
<tr>
<td>Builder Risk</td>
<td>0.84%</td>
<td>$1,012.96</td>
</tr>
<tr>
<td>Subparagraph</td>
<td></td>
<td>$1,477.08</td>
</tr>
<tr>
<td>CCP</td>
<td>2.50%</td>
<td>$33,041.75</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>$120,990</strong></td>
</tr>
</tbody>
</table>

**Subtotal Trade Directs**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements (GCR) &amp; General</td>
<td>$120,990.00</td>
</tr>
<tr>
<td>Conditions (GCR) Materials &amp; Equipment</td>
<td></td>
</tr>
<tr>
<td>Self Performed Labor</td>
<td></td>
</tr>
</tbody>
</table>

**Description of Work**

- International African American Museum
**Direct Work Subtotal:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Rate</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Added Purple Board</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Kitchen Cabinets</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Move Smoke Detectors</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>New Water Level 1 &amp; 2 Pump</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Clocking Condenser Room Move</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A &amp; E Changer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A &amp; E Changer</td>
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<tr>
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<td>A &amp; E Changer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A &amp; E Changer</td>
</tr>
</tbody>
</table>

**Additional Scope Of Work**

**Trade Directs**

**General Requirements (G.R.'s) & General Conditions (G.C.'s)**

**Cor No:**

181

*International African American Museum*
To: Edmund V. Most  
From: Mike Risteski  
Date: 3/1/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 182  
Contract: Construction

Description of work to be performed: Kneeling Figures Contract  
This change is associated with the contract for the production of the kneeling figures. The original GMP contract had money allocated for the production of the kneeling figures once their design was completed. Unfortunately at this time the kneeling figures designing is still ongoing, therefore the contract sum will be removed from the GMP and returned to the IAAM.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $39,463.00  
Owner Contingency Allow. Bal.

Time Extension Requested:

Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: March 1, 2022  
NO (YES) (Circle One)  
Mike Risteski, Cumming Corp.

Approved:

NO (YES) (Circle One)  
Rick Holt, Cumming Corp.

NO (YES) (Circle One)  
Robert Faust, Cumming Corp.

NO (YES) (Circle One)  
Edmund V. Most, City of Charleston

NO (YES) (Circle One)  
Bernard Costantino, Moody Nolan

(Initials)
Turner Construction Company
Subcontract Data Sheet

The terms and conditions of the Form 36 SC REV 7-31-20 shall govern this Subcontract with the exception of those modifications listed below:

This Agreement, 4700141339, made as of the 10th day of September in the year 2020 by and between Turner Construction Company a NY Corporation, (hereinafter called Contractor) and Hard Hat Transportation, LLC with offices located at 7171 Bryhawke Circle, Suite 300, North Charleston, SC, 29418 (hereinafter called the Subcontractor).

<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Kneeling Figures (hereinafter called the Work)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Name:</td>
<td>International African American Museum (hereinafter called the Project)</td>
</tr>
<tr>
<td>Project Number:</td>
<td>190795</td>
</tr>
<tr>
<td>Project Location:</td>
<td>Concord St and Inspection St., Charleston, SC, 29403 (hereinafter called the Premises)</td>
</tr>
<tr>
<td>Architect Name:</td>
<td>(hereinafter called the Architect)</td>
</tr>
<tr>
<td>Owner Name:</td>
<td>City of Charleston (hereinafter called the Owner)</td>
</tr>
<tr>
<td>General Contract Date:</td>
<td>08/01/2019</td>
</tr>
<tr>
<td>Price</td>
<td>Subcontract Amount: $39,463.00 (hereinafter called the Price)</td>
</tr>
<tr>
<td>Reserve</td>
<td>10.00%</td>
</tr>
</tbody>
</table>

Allowance for Overhead on Changes 15%
Allowance for Profit on Changes Included in Overhead

In addition to Turner Construction Company, The Turner Corporation, and the Owner, the Indemnified Parties throughout this Agreement shall include: International African American Museum and any of their respective officers, agents, servants, or employees, and affiliates, parents and subsidiaries.

Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Turner Construction Company, shall be in place and maintained until completion and final acceptance of the Work:

1. WORKERS’ COMPENSATION AND EMPLOYERS’ LIABILITY INSURANCE in accordance with laws of the State in which the Work is situated.

2. COMMERCIAL GENERAL LIABILITY INSURANCE

   $2,000,000.00 /Occurrence
   $2,000,000.00 /General Aggregate

   ____ Subcontractor Election A). The above insurance coverages shall be provided by insurance companies selected by the Subcontractor.

   or

   ____ X ____ Subcontractor Election B). The above insurance coverages shall be provided through a consolidated insurance program arranged by Turner Construction Company (CCIP). $7,500.00 (The "Estimated Unburdened Payroll") is warranted by Subcontractor as accurate for calculation of Insurance Premium for Subcontractor and enrolled Lower Tiers.
Subcontractor Election B, Sub-Part B-1. Project utilizes a consolidated insurance program (CCIP) arranged by Turner Construction Company. Subcontractor is an Excluded Prime Tier with Enrolled Lower Tier Subcontracts. $ _____ (The "Estimated Unburdened Payroll") is warranted by Subcontractor as accurate for calculation of Insurance Premium for enrolled Lower Tiers.

or

Subcontractor Election C) The above insurance coverages shall be provided through an Owner Controlled Insurance Program (OCIP).

3. COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

Combined Single Limit $1,000,000.00 /accident

| Bonds                  | Payment and Performance Bonds included: NO |
|                       | If Payment and Performance Bonds included: |
|                       | Provide performance bond in the amount of $ 0.00 |
|                       | Provide payment bond in the amount of $ 0.00 |

Entire Agreement

Hard Hat Transportation, LLC (SUBCONTRACTOR) ACKNOWLEDGES THAT THE ACCOMPANYING BALANCE OF TERMS AND CONDITIONS PER THE Form 36 SC REV 7-31-20 ARE COMPLEMENTARY AND INTEGRAL TO THIS SUBCONTRACT AGREEMENT.

This Agreement constitutes the entire agreement between the parties hereto. No oral representations or other agreements have been made by Turner Construction Company except as stated in the Agreement.

This Agreement may not be changed in any way except as herein provided, and no term or provision hereof may be waived by Turner Construction Company except in writing signed by its duly authorized officer or agent. Subcontractor acknowledges and represents that it completed and submitted to Turner Construction Company a prequalification questionnaire, that all statements therein were true, accurate and complete, and remain true, accurate and complete, and that Turner Construction Company has relied on truthfulness, accuracy and completeness of such statements and the contents of the attachments thereto in deciding to enter into this Agreement. The marginal descriptions of any term or provision of this Agreement are for convenience only and shall not be deemed to limit, restrict or alter the content, meaning or effect thereof.

The said parties, for themselves, their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of all of the terms and provisions herein contained.

In Witness Whereof the parties to these presents have hereunto set their hands as of the day and year first above written.

Hard Hat Transportation, LLC
By: [Signature]
Official title: President

Turner Construction Company
By: [Signature]
Tucker Abbott - Procurement Manager

Subcontractor's Federal Employers Identification Number (FEIN) 32-0410968
Subcontractor's State Unemployment Ins. No.
Subcontractor's License No.
(Insert License No., if any, for State or locality in which the Work is to be performed)
Subcontractor's State Sales Tax Registration No.
(Insert State and Register No. for State in which the Work is to be performed)
This Agreement, made as of the SDS day of SDS in the year SDS by and between CONTRACTOR and SDS (See Subcontract Data Sheet for this Item and all other Items marked SDS) (hereinafter called the Subcontractor),

Witnesseth that the Subcontractor and Contractor agree as follows:

Description of Work

ARTICLE I. The Subcontractor shall perform and furnish all the work, labor, services, materials, plant, equipment, tools, scaffolds, appliances and other things necessary for SDS (Hereinafter called the Work) for and at the SDS (Hereinafter called the Project), located on premises at SDS (Hereinafter called the Premises), as shown and described in and in strict accordance with the Plans, Specifications, General Conditions, Special Conditions and Addenda thereto prepared by SDS (Hereinafter called the Architect) and with the terms and provisions of the General Contract (hereinafter called the General Contract) between Contractor and SDS (Hereinafter called the Owner) dated SDS and in strict accordance with the Additional Provisions, page(s) SDS annexed hereto and made a part hereof.

Plans & Specifications

ARTICLE II. The Plans, Specifications, General Conditions, Special Conditions, Addenda and General Contract hereinafore mentioned, are available for examination by the Subcontractor at all reasonable times at the office of Contractor; all of the aforesaid, including this Agreement, being hereinafter sometimes referred to as the Contract Documents. The Subcontractor represents and agrees that it has carefully examined and understands this Agreement and the other Contract Documents, has investigated the nature, locality and site of the Work and the conditions and difficulties under which it is to be performed and that it enters into this Agreement on the basis of its own examination, investigation and evaluation of all such matters and not in reliance upon any opinions or representations of Contractor, or of the Owner, or of any of their respective officers, agents, servants, or employees.

Contract Documents

With respect to the Work to be performed and furnished by the Subcontractor hereunder, the Subcontractor agrees to be bound to Contractor by each and all of the terms and provisions of the General Contract and the other Contract Documents, and to assume toward Contractor all of the duties, obligations and responsibilities that Contractor by those Contract Documents assumes toward the Owner, and the Subcontractor agrees further that Contractor shall have the same rights and remedies as against the Subcontractor as the Owner under the terms and provisions of the General Contract and the other Contract Documents has against Contractor with the same force and effect as though every such duty, obligation, responsibility, right or remedy were set forth herein in full. The terms and provisions of this Agreement with respect to the Work to be performed and furnished by the Subcontractor hereunder are intended to be and shall be in addition to and not in substitution for any of the terms and provisions of the General Contract and the other Contract Documents.

This Subcontract Agreement, the provisions of the General Contract and the other Contract Documents are intended to supplement and complement each other and shall, where possible, be thus interpreted. If, however, any provision of this Subcontract Agreement irreconcilably conflicts with a provision of the General Contract and the other Contract Documents, the provision imposing the greater duty or obligation on the Subcontractor shall govern.

Contractor hereby advises, and the Subcontractor hereby acknowledges, that Contractor in administering this subcontract will be utilizing an information systems infrastructure to process, deliver, and share and/or, at times, to apply electronic signatures to execute certain project documentation through electronic means. As part of the implementation of this infrastructure, the Subcontractor will be given individual, secure log on codes to access the Contractor systems presenting this electronic information. The Subcontractor hereby agrees that such electronic access and the ability of the subcontractor to print out such electronic documents will be in lieu of requiring the delivery of the contents of such electronic documents on printed or paper based media directly to Subcontractor by Contractor or through means of outside third-party services. Delivery of such electronic documents to Subcontractor will be deemed to have occurred when access to the document is made available to Subcontractor in the infrastructure.

At times, Contractor may, through this electronic infrastructure system, initiate Subcontract Change Order documents that will require that the Subcontractor review and approve or reject each such document applying its electronic signature to the approved document on the Contractor software and thereafter, Contractor will apply the electronic signature of its authorized personnel to execute the approved document and electronically deliver the fully executed document to the Subcontractor. The Subcontractor agrees and acknowledges that granting its on-line approval and electronically executing a Subcontract Change Order also affixes the Subcontractor's electronic signature to such document and in so doing it is agreeing that each such document, when electronically countersigned by Contractor, are valid and authentic and enforceable obligations of both parties and to honor and be bound by such documents as if they had been prepared on hard copy and contained the manually applied autograph signatures of the Subcontractor's and Contractor's authorized personnel. Subcontractor hereby agrees to establish, continuously use and maintain a robust and effective Security System/ID and Passwords to protect its identity when addressing and/or signing any electronic contract related documentation issued or exchanged pursuant to this Article.

Optionally, Contractor may use paper documents, where the Subcontractor reviews the proposed paper document and, if it approves, it manually affixes its autograph signature to the paper document and physically returns the signed paper document to Contractor who completes the execution by applying either its autograph or electronic signature to the Subcontract Change Order and a copy of the executed Subcontract Change Order showing the presence of both signatures is physically delivered to the Subcontractor and such Subcontract Change Order shall likewise be deemed by both parties to be valid and authentic and enforceable obligations of both parties.

Contractor may from time to time issue policies or directives applicable to electronic communications, electronic infrastructure and electronic data and Subcontractor shall comply with such policies and directives whether issued as part of this Subcontract or hereafter, and the cost and expense of such compliance shall be borne by the Subcontractor.

Time of Performance & Completion

ARTICLE III. The Subcontractor shall commence the Work when notified to do so by Contractor and shall diligently and continuously prosecute and complete the Work and coordinate the Work with the other work being performed on the Project, in accordance with those project schedules as may be issued from time to time during the performance of the Work and any other scheduling requirements listed in this Agreement, so as not to delay, impede, obstruct, hinder or interfere with the commencement, progress or completion of the whole or any part of the Work or other work on the Project, and in such a manner as necessary or requested by Contractor from time to time to ensure that Contractor satisfies its obligations in a timely manner under the General Contract,
Planning & Scheduling

The Subcontractor shall participate and cooperate in the development of schedules and other efforts to achieve timely completion of the Work providing information for the scheduling of the times and sequence of operations required for its Work to meet Contractor's overall schedule requirements, shall continuously monitor the project schedule so as to be fully familiar with the timing, phasing, and sequence of operations of the Work and of other work on the Project, and shall execute the Work in accordance with the requirements of the project schedule including any revisions thereto. Subcontractor shall abide by all requirements of the General Contract relating to the submission of schedule and other information related to the performance of Subcontractor's Work not less than 14 days prior to the time when Contractor is required to provide such materials to Owner under the General Contract, except where Contractor directs otherwise. Subcontractor shall, at no additional cost, provide updates, additional or further detailed schedules and other information as frequently and in whatever format Contractor may request, including but not limited to (1) manpower and cost loaded schedules; (2) information related to its operations as a whole, including but not limited to identifying lower tier subcontractors and suppliers and the status of payments to such subcontractors and suppliers; (3) unions and related benefit funds associated with labor used in the performance of the Work; (4) credit sources and banks providing financing or loans in connection with the performance of the Work or Subcontractor's operations as a whole and any covenants and requirements imposed upon Subcontractor in connection therewith and the status of Subcontractor's compliance with such covenants and requirements; and (5) the status of orders, fabrication and delivery of materials and arrangements for the provision of labor. The foregoing information shall include names and contact information, and Subcontractor acknowledges and agrees that Contractor may contact any persons or entities as it deems necessary to verify or obtain such information.

Subcontractor shall establish and maintain a reasonable accounting system by which records are kept that enable Contractor to readily identify all of Subcontractor's expenses, costs, payments (including to its workers, subcontractors and suppliers, unions, and benefit funds), obligations, budgets, and other financial information related to the Work or this Subcontract. Such records shall include, but not be limited to, all accounting records, written policies and procedures, subcontract files for all tiers, payment vouchers, ledgers, cancelled checks, contract amendments, change order information, insurance documents, and other similar information. Contractor shall have the right to audit, examine, and make copies of all such records (whether written, electronic or another format) as Contractor may determine, and Subcontractor shall facilitate and cooperate with Contractors efforts in this regard. Subcontractor shall impose similar obligations on its subcontractors and vendors to ensure that comparable records kept and Contractor has the right to audit, examine and copy those records.

Delays by Subcontractor

Should the progress of the Work or of the Project be delayed, disrupted, hindered, obstructed, or interfered with by any fault or neglect or act or failure to act of the Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers so as to cause any additional cost, expense, liability or damage to Contractor including legal fees and disbursements incurred by Contractor (whether incurred in defending claims arising from such delay or in seeking reimbursement and indemnity from the Subcontractor and its surety hereunder or otherwise) or to the Owner or any damages or additional costs or expenses for which Contractor or the Owner may or shall become liable, the Subcontractor and its surety shall and does hereby agree to compensate Contractor and the Owner for and indemnify them against all such costs, expenses, damages and liability.

Overtime

If the progress of the Work or of the Project be delayed by any fault or neglect or act or failure to act of the Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers, then the Subcontractor shall, in addition to all of the other obligations imposed by this Agreement upon the Subcontractor in such case, and at its own cost and expense, work such overtime as may be necessary to make up for all time lost in the completion of the Work and of the Project due to such delay. Should the Subcontractor fail to make up for the time lost by reason of such delay, Contractor shall have the right to cause other Subcontractors to work overtime and to take whatever other action it deems necessary to avoid delay in the completion of the Work and of the Project, and the cost and expense of such overtime and/or such other action shall be borne by the Subcontractor.

Contractor, if it deems necessary, may direct the Subcontractor to work overtime and, if so directed, the Subcontractor shall work said overtime and, provided that the Subcontractor is not in default under any of the terms or provisions of this Agreement or of any of the other Subcontracts and the direction to work overtime was not due in whole or in part to any fault or failure of Subcontractor, Contractor will pay the Subcontractor only for such actual additional wages paid, if any, at rates which have been approved by Contractor plus taxes imposed by law on such additional wages, plus workers' compensation insurance, liability insurance and levies on such additional wages if required to be paid by the Subcontractor to comply with Subcontractor's obligations under this Agreement. Subcontractor acknowledges that in the event that it may intend to pursue a claim of inefficiency, loss of productivity or other similar or related request for additional compensation, Subcontractor may rely only on evidence indicating the actual inefficiency, loss of productivity or other similar consequence as it occurred on the Project and agrees that no reports, analyses, data, industry or academic studies or any other evidence that do not exclusively rely on and pertain to the Work performed at the Project shall be used or in any way considered, in whole or in part, in connection with the resolution of such a claim, whether by Contractor or any forum for dispute resolution.

Price

ARTICLE IV. The sum to be paid by Contractor, out of funds received from the owner, to the Subcontractor for the satisfactory performance and completion of the Work and of all of the duties, obligations and responsibilities of the Subcontractor under this Agreement and the other Contract Documents shall be SDS (Hereinafter called the "Price") subject to additions and deductions as herein provided.

The Price includes all Federal, State, County, Municipal and other taxes imposed by law and based upon labor, services, materials, equipment or other items acquired, performed, furnished or used for and in connection with the Work, including but not limited to sales, use and personal property taxes payable by or levied or assessed against the Owner, Contractor or the Subcontractor. Where the law requires any such taxes to be stated and charged separately, the total price of all items included in the Work plus the amount of such taxes shall not exceed the Price.

Progress Payments

On or before the last day of each month the Subcontractor shall submit to Contractor, in the form required by Contractor, a written requisition for payment showing the proportionate value of the Work installed to that date, from which shall be deducted: a) all amounts of SDRS; b) all previous payments; c) all amounts and claims against SDRS at any time by, to or for which Subcontractor is responsible hereunder; and any charges for services, materials, equipment and other items furnished by Contractor to or chargeable to the Subcontractor, and the balance of the amount of any such reproduction, as approved by Contractor and the Architect and for which payment has been received by Contractor from the Owner, shall be due and paid to the Subcontractor on or about the fifteenth (15th) day of the succeeding month or in accordance with the Contract Documents. Contractor shall have the right, at its sole discretion, to issue payments to Subcontractor by way of joint checks to Subcontractor and suppliers and/or vendors of Subcontractor, and Subcontractor agrees to cooperate fully in facilitating the making of such joint payments.
Payments in General

For projects where the General Contract does not have an Owner that is a governmental body, the requirements of Sections 29-6-30 and 29-6-50 are hereby waived and in lieu of the payment periods and rates of interest contained in such sections, it is hereby agreed that the Subcontractor shall receive its payment no later than seven days after the receipt thereof by Contractor from the Owner and interest on any late payments shall only be payable out of the actual interest that Contractor receives from the Owner and the amount of interest to be paid to the Subcontractor could be calculated on a pro rata basis based upon the ratio that the Subcontractor payment bears to the total Owner payment made to Contractor.

The Subcontractor shall submit with its first requisition for payment a detailed schedule showing the breakdown of the Price into its various parts for use only as a basis of checking the Subcontractor's monthly requirements.

Contractor reserves the right to advance the date of any payment (including the final payment) under this Agreement if, in its sole judgment, it becomes desirable to do so.

The Subcontractor agrees that, if and when requested to do so by Contractor, it shall furnish such information, evidence and substantiation as Contractor may require with respect to the nature and extent of all obligations incurred by the Subcontractor for or in connection with the Work, all payments made by the Subcontractor thereon, and the amounts remaining unpaid, to whom and the reasons therefor.

Final Payment

Final payment to the Subcontractor shall be made with funds received by Contractor from the Owner, the Construction Lender or the Owner's Agent as final payment for Work under the General Contract. In addition, final payment by Contractor to the Subcontractor shall not become due and payable until the following express conditions precedent have been met: (1) the completion and acceptance of the Work by Contractor and the Architect; (2) provision by the Subcontractor of evidence satisfactory to Contractor that there are no claims, obligations or liens outstanding or unsatisfied for labor, services, materials, equipment, taxes or other items performed, furnished, or incurred for or in connection with the Work; (3) execution and delivery by the Subcontractor, in a form satisfactory to Contractor of a general release running to and in favor of Contractor and the Owner; and (4) complete and full satisfaction of all claims, demands and disputes, and all obligations and responsibilities of Subcontractor, arising out of or related to the Subcontract, including those as between Contractor and Subcontractor as well as those between Subcontractor and any third party. Should there be any such claim, obligation or lien or unsatisfied obligation or responsibility whether before or after final payment is made, the Subcontractor shall pay, refund or deliver to Contractor (1) all monies that Contractor and/or the Owner shall pay in satisfying, discharging or defending against any such claim, obligation or lien or any action brought or judgment recovered thereon and all costs and expenses, including legal fees and disbursements, incurred in connection therewith; and (2) such amounts as Contractor or Owner shall, in their sole discretion, determine to be an amount sufficient to protect Contractor and Owner therefrom (in lieu of payment of such amounts, Subcontractor may, at Owner’s and Contractor’s sole discretion, deliver a bond satisfactory to Contractor and Owner). Such refund and payment shall be made within ten (10) days of request by Contractor to Subcontractor for same. The final payment shall be due within forty (40) days after all of these express conditions precedent have been met.

Liens by Others

If any claim or lien is made or filed with or against Contractor, the Owner, the Project, the Premises or the Project funds by any person claiming that the Subcontractor or any subcontractor or other person under subcontract to Subcontractor, or any person or entity employed or engaged by or through Subcontractor at any tier, has failed to make payment for any labor, services, materials, equipment, taxes or other items or obligations furnished or incurred for or in connection with the Work, or if any such claim or lien is filed or presented, or if Contractor, in good faith, believes that such a claim or lien may be filed or brought, or if at any time there shall be evidence of such nonpayment or of any claim or lien for which, if established, Contractor or the Owner might become liable and which is chargeable to the Subcontractor, or if the Subcontractor or any subcontractor or other person under subcontract to Subcontractor, or any person or entity employed or engaged by or through Subcontractor at any tier causes damage to the Work or to any other work on the Project, or if the Subcontractor fails to perform or is otherwise in default under any of the terms or provisions of this Agreement, Contractor shall have the right (A) to retain from any payment then due or thereafter to become due an amount which it deems sufficient to (1) satisfy, discharge and/or defend against any such claim or lien or any action which may be brought or judgment which may be recovered thereon, (2) make good any such nonpayment, damage, failure or default, and (3) compensate Contractor and the Owner for and indemnify and hold them harmless against any and all losses, liability, damages, costs and expenses including legal fees and disbursements, which may be sustained or incurred by either or both of them in connection therewith; and (B) to demand that Subcontractor provide, within ten (10) days of Contractor’s request therefore, proof to the satisfaction of Contractor and Owner that such non-payment, claim or lien has been fully satisfied, dismissed and discharged. Upon the failure of Subcontractor to fulfill the requirements of a demand issued by Contractor pursuant to subsection (B) above, Contractor may, in such manner as Contractor may in its sole discretion determine, secure the satisfaction, dismissal and discharge of such claim, by payment or otherwise, and Subcontractor shall within ten (10) days of demand therefore, be liable for and pay to Contractor all amounts (including legal fees and disbursements) incurred or suffered by Contractor or Owner arising out of or related thereto. Contractor shall, in addition, have the right to apply and charge against the Subcontractor so much of the amount retained as may be required for the foregoing purposes. Subcontractor further agrees to indemnify, hold harmless and defend Contractor and Owner, upon demand, for any and all such claims, liens, and the costs, expenses (including legal fees and disbursements), damages and liabilities arising out of or related thereto. Subcontractor acknowledges (1) that discharge of such liens or claims by bond imposes liability upon a surety and Contractor, and (2) that Contractor is not required to discharge such lien or claims by bond when exercising its rights hereunder. Subcontractor agrees that should there be any amounts due or which may become due to Subcontractor in connection with any other subcontracts between Contractor and Subcontractor or other obligations that Contractor may have to Subcontractor, Contractor shall be entitled to withhold payment under such other subcontract or obligations to the extent that Contractor believes that the unpaid balance of this Subcontract may not be adequate to satisfy Subcontractor’s obligations to Contractor hereunder.

Effect of Payment

No payment (final or otherwise) made under or in connection with this Agreement shall be conclusive evidence of the performance of the Work or of this Agreement, in whole or in part, and no such payment shall be construed to be an acceptance of defective, faulty or improper work or materials nor shall it release the Subcontractor from any of its obligations under this Agreement; nor shall entrance and use by the Owner constitute acceptance of the Work or any part thereof. The failure of Subcontractor to fully perform and satisfy any or all obligations set forth in this Article IV shall constitute a default, enabling Contractor to take action as described in Article XI.
Subcontractor acknowledges and agrees that to the extent that payments received by Subcontractor include amounts for Work performed by subcontractors to Subcontractor or services or materials provided to Subcontractor by suppliers, vendors, workers employed by or through Subcontractor, all such payments received by Subcontractor shall be deemed to have been received by Subcontractor as trustee with those entitled to receive payment from Subcontractor as beneficiaries of such amounts, and Subcontractor shall hold such funds separately and utilize such amounts only for the purpose of making payment to these beneficiaries. In the event that Subcontractor subsequently determines that a beneficiary is not entitled to receipt of payment, Subcontractor shall return such unpaid funds to Contractor.

Extension of Time & Delays

**ARTICLE V.** Should the Subcontractor be delayed, obstructed, hindered or interfered with in the commencement, prosecution or completion of the Work by any cause including but not limited to any act, omission, neglect, negligence or default of Contractor or of anyone employed by Contractor or by any other contractor or subcontractor on the Project, or by the Architect, the Owner or their contractors, agents or consultants by fire, or by other causes or by the combined action of workers or by governmental directive or order in no way chargeable to the Subcontractor, or by any extraordinary conditions arising out of war or government regulations, or by any other cause beyond the control of and not due to any fault, neglect, act or omission of the Subcontractor, its officers, agents, employees, subcontractors or suppliers, then except where the General Contract has specific requirements at variance with the foregoing, in which case the requirements of the General Contract shall govern, the Subcontractor shall be entitled to an extension of time for a period equivalent to the time lost by reason of any and all of the aforesaid causes; provided, however, that the Subcontractor shall not be entitled to any such extension of time unless the Subcontractor (1) notifies Contractor in writing of the cause or causes of such delay, obstruction, hindrance or interference within forty-eight (48) hours of the commencement thereof and (2) demonstrates that it could not have anticipated or avoided such delay, obstruction, hindrance or interference and has used all available means to minimize the consequences thereof. Subcontractor acknowledges that provision of such notice is an essential condition precedent to Subcontractor's rights in connection with any such delays, obstructive hindrances or interferences to Contractor's ability to fully identify, and expeditiously, address and avoid such cause or causes, and, accordingly, Subcontractor expressly waives all rights with respect to any such cause or causes for which notice hereunder was not provided. Notwithstanding the foregoing, if the General Contract is at variance with granting such time extension, then the provisions of the General Contract shall control.

The Subcontractor agrees that it shall not be entitled to nor claim any cost reimbursement, compensation or damages for any delay, obstruction, hindrance or interference to the Work except to the limited extent that Contractor has actually recovered corresponding cost reimbursement, compensation or damages from the Owner under the Contract Documents for such delay, obstruction, hindrance or interference, and then only to the extent of the amount, if any, which Contractor on behalf of the Subcontractor, actually received from the Owner on account of such delay, obstruction, hindrance or interference. Notwithstanding any term or provision herein to the contrary, Subcontractor expressly waives and releases all claims or rights to recover lost profit (except for profit on work actually performed), recovery of overhead (including home office overhead), and any other indirect costs, damages or expenses in any way arising out of or related to the Agreement, including the breach thereof by Contractor, delays, changes, acceleration, loss of efficiency or productivity disruptions and interferences with the performance of the work.

It shall be an express condition precedent to any obligation on the part of Contractor to make payment of any such cost, reimbursement, compensation or damages to the Subcontractor hereunder that Contractor shall first be determined to be entitled to such compensation on behalf of the Subcontractor from Owner, and Subcontractor expressly acknowledges that Contractor is not obligated or required to pursue Subcontractor claims as against Owner if Contractor, in its sole discretion, after review of Subcontractor’s claim, has deemed the claim to lack merit in whole or in part.

Freight Charges & Shipments

**ARTICLE VI.** The Subcontractor in making or ordering shipments shall not consign or have consigned materials, equipment or any other items in the name of Contractor. Contractor is under no obligation to make payment for charges on shipments made by or to the Subcontractor but may, at its option, pay such charges, in which case the Subcontractor shall reimburse Contractor for the amount of such payments plus a service charge of twenty-five percent (25%) of the amount so paid.

Dimensions

**ARTICLE VII.** Notwithstanding the dimensions on the Plans, Specifications and other Contract Documents it shall be the obligation and responsibility of the Subcontractor to take such measurements as will ensure the proper matching and fitting of the Work covered by this Agreement with contiguous work.

Shop Drawings

The Subcontractor shall prepare and submit to Contractor such shop drawings as may be necessary to describe completely the details and construction of the Work. Approval of such shop drawings by Contractor and/or the Architect shall not relieve the Subcontractor of its obligation to perform the Work in strict accordance with the Plans, Specifications, the Additional Provisions hereof and the other Contract Documents, nor of its responsibility for the proper matching and fitting of the Work with contiguous work and the coordination of the Work with other work being performed on the site, which obligation and responsibility shall continue until completion of the Work.

The Subcontractor's submission of a shop drawing to Contractor shall constitute the Subcontractor's representation, upon which Contractor may rely, that the Subcontractor has reviewed the submission for accuracy and compliance with all Contract Documents and that wherever engineering is required to be performed, same has been performed by a qualified and licensed engineer. Furthermore, the review of the Shop Drawing by Contractor shall not constitute an undertaking by Contractor to identify deficiencies in the submission, that being an undertaking within the sole responsibility of the Subcontractor.

Contiguous Work

Should the proper and accurate performance of the Work hereunder depend upon the proper and accurate performance of other work not covered by this Agreement, the Subcontractor shall carefully examine such other work, determine whether it is in fit, ready and suitable condition for the proper and accurate performance of the Work hereunder, use all means necessary to discover any defects in such other work, and before proceeding with the Work hereunder, report promptly any such improper conditions and defects to Contractor in writing and allow Contractor a reasonable time to have such improper conditions and defects remedied. Should Subcontractor fail to comply with the requirements of this Article, Subcontractor shall bear all costs incurred by Contractor, Owner and other subcontractors, and shall not be entitled to extensions of time and adjustments in Price, that could have been avoided by Subcontractor's compliance with the requirements of this Article.
ARTICLE VIII. The Work hereunder is to be performed and furnished under the direction and to the satisfaction of both the Architect and Contractor. The decision of the Architect as to the true construction, meaning and intent of the Plans and Specifications shall be final and binding upon the parties hereto. Contractor will furnish to the Subcontractor such additional information and Plans as may be prepared by the Architect to further describe the Work to be performed and furnished by the Subcontractor and the Subcontractor shall conform to and abide by the same.

The Subcontractor shall not make any changes, additions and/or omissions in the Work except upon written order of Contractor as provided in Article IX hereof.

ARTICLE IX. Contractor reserves the right, from time to time, whether the Work or any part thereof shall or shall not have been completed, to make changes, additions and/or omissions in the Work as it may deem necessary, upon written order to the Subcontractor. The value of the work to be changed, added or omitted shall be stated in said written order and shall be added to or deducted from the Price.

The value of the work to be changed, added or omitted shall be determined by the lump sum or unit prices, if any, stipulated herein for such work. If no such prices are stipulated, such value shall be determined by whichever of the following methods or combination thereof Contractor may elect:

(a) By adding or deducting a lump sum or an amount determined by a unit price agreed upon between the parties hereto,

(b) By adding (1) the actual net cost to the Subcontractor of labor in accordance with the established rates, including required union benefits, premiums the Subcontractor is required to pay for workmen's compensation and liability insurance, and payroll taxes on such labor, (2) the actual cost to the Subcontractor of materials and equipment and such other direct costs as may be approved by Contractor less all savings, discounts, rebates and credits, (3) an allowance of SDS for overhead on items (1) and (2) above, and (4) an allowance of SDS for profit on items (1), (2) and (3) above.

Should the parties hereto be unable to agree as to the value of the work to be changed, added or omitted, the Subcontractor shall proceed with the work promptly under the written order of Contractor from which order the stated value of the work shall be omitted, and the determination of the value of the work, if not resolved in the normal course, shall be addressed pursuant to the dispute resolution procedures in accordance with Article XIX.

In the case of omitted work Contractor shall have the right to withhold from payments due or to become due to the Subcontractor an amount which, in Contractor's opinion, is equal to the value of such work until such time as the value thereof is determined by agreement or by the Architect as hereinabove provided.

All changes, additions or omissions in the Work ordered in writing by Contractor shall be deemed to be a part of the Work hereunder and shall be performed and furnished in strict accordance with all of the terms and provisions of this Agreement and the other Contract Documents. Subcontractor accepts the responsibility to keep its surety informed of all such modifications to its contract. The obligations of Subcontractor and Subcontractor's Surety shall not be reduced, waived or adversely affected by the issuance of such change orders, additions or deductions even if Subcontractor fails to inform Surety of same and Contractor shall not be required to obtain consent of the Surety to such modifications.

Subcontractor shall provide Contractor with written notice of any circumstance or direction given by Contractor which Subcontractor may regard as a change, addition and/or omission which may otherwise serve as the basis for a request for an increase in Price or extension of time within 5 days of the receipt of the direction or the occurrence of the event giving rise to such a request. Such written notice shall provide a full explanation of the circumstances or direction and the extent of the increase and extension sought, including a detailed breakdown and analysis supporting such request. Failure of the Subcontractor to provide such written notice shall constitute a waiver of Subcontractor's right to any such increase or extension.

Subcontractor acknowledges that the General Contract may include provisions whereby Contractor is required to provide notice, information, reports and analyses in the event that Contractor intends to pursue or which may affect Contractor's right's to an extension of time or increase in Contractor's price to the Owner, whether by way of change order or otherwise, and that the failure to provide such notice, information, reports and analyses may result in a waiver or forfeiture of the right to such an extension or increase. Accordingly, Subcontractor agrees that Subcontractor shall provide all such notices, information, reports and analyses to Contractor in the same form, content and manner as Contractor is required to provide to Owner under the General Contract in the event that Subcontractor intends to pursue an extension of time or increase in Price. Subcontractor shall provide all such notices, information, reports and analyses to Contractor not later than 3 business days prior to the time by which Contractor must submit corresponding notice, information, reports and analyses to Owner so that Contractor can pursue such extensions and/or increases in Contractor's price from the Owner. Subcontractor acknowledges that its failure to comply with the terms of this paragraph may result in the loss of or prejudice to Contractor's ability to receive adjustments and extensions time from Owner. Subcontractor therefore agrees that it shall be deemed to have waived and forfeited all such rights in the event that it fails to provide notice, information, reports and analyses to Contractor as required by this Article. The terms and provisions of the paragraph are neither intended to relieve Subcontractor of the obligation to provide timely notices, information, reports and analyses, nor to extend shorter durations, required by the Contract Documents.

Notwithstanding the forgoing, the Subcontractor agrees that it shall not be entitled to nor claim any cost reimbursement, compensation, damages or extensions of time attributable to any changes, additions and/or omissions directed by Contractor except to the limited extent that Contractor has actually recovered corresponding cost reimbursement, compensation, damages or extensions of time from the Owner under the Contract Documents for such changes, additions and/or omissions and then only to the extent of the amount, if any, which Contractor on behalf of the Subcontractor, actually received from the Owner on account of such delay, obstruction, hindrance or interference. The preceding sentence shall not apply in a situation in which Contractor directed the performance of changes, additions and/or omissions by Subcontractor notwithstanding express language in the General Contract clearly indicating that Contractor is not entitled to recover a corresponding cost reimbursement, compensation, damages or extensions of time from the Owner.
ARTICLE X. The Subcontractor shall at all times provide sufficient, safe and proper facilities for the inspection of the Work by Contractor, the Architect, and their authorized representatives in the field, at shops or at any other place where materials or equipment for the Work are in the course of preparation, manufacture, treatment or storage. The Subcontractor shall, within twenty-four (24) hours after receiving written notice from Contractor to that effect, proceed to remove from the premises all materials whether worked or unworked, which the Architect, Contractor, Owner or any of its design consultants shall condemn as unsound, defective or improper or as in any way failing to conform to this Agreement or the Plans, Specifications or other Contract Documents, and the Subcontractor, at its own cost and expense, shall replace the same with proper and satisfactory work and materials and make good all work damaged or destroyed by or as a result of such unsound, defective, improper or nonconforming work or materials or by the taking down, removal or replacement thereof.

ARTICLE XI. Should the Subcontractor at any time, whether before or after final payment or completion of the Work, refuse or neglect to supply a sufficiency of skilled workers or materials of the proper quality and quantity, or fail in any respect to prosecute the Work with promptness and diligence, or cause by any act or omission the stoppage, impede, obstruct, hinder or delay of or interference with or damage to the Work of Contractor or of any other contractors or subcontractors on the Project, or fail in the performance of any of the terms and provisions of this Agreement or of the other Contract Documents, or should the Architect, Contractor, Owner or any of its design consultants, determine that the Work or any portion thereof is not being performed in accordance with the Contract Documents, or should there be filed by or against the Subcontractor a petition in bankruptcy, or should the Subcontractor go into liquidation or dissolution, either voluntarily or involuntarily or under a court order, or make a general assignment for the benefit of creditors, or otherwise acknowledge insolvency, then in any of such events, each of which shall constitute a default hereunder on the Subcontractor's part, Contractor shall have the right, in addition to any other rights and remedies provided by this Agreement and the other Contract Documents or by law, at one time or in phases at Contractor's discretion, after three (3) days written notice to the Subcontractor mailed or delivered to the last known address of the latter, (a) to perform and furnish through itself or through others any such labor or materials for all or any portion of the Work and to deduct the cost thereof from any monies due or to become due to the Subcontractor under this Agreement, (b) to terminate the employment of the Subcontractor for all or any portion of the Work, and/or (c) enter upon the premises and take possession, for the purpose of completing all or any portion of the Work, of all materials, equipment, scaffolds, tools, appliances and other items thereon as Contractor may select, all of which the Subcontractor hereby authorizes Contractor to employ and/or communicate with any person or persons in connection with the completion of the Work and/or to provide all the labor, services, materials, equipment and other items required therefor. In case of Contractor taking action under this Article, including termination of the employment of the Subcontractor, the Subcontractor shall not be entitled to receive any further payment under this Agreement until the Work shall be wholly completed to the satisfaction of Contractor, Owner and the Architect and shall have been accepted by them, at which time, if the unpaid balance of the amount to be paid under this Agreement shall exceed the cost and expense incurred by Contractor in completing the Work, such excess shall be paid by Contractor to the Subcontractor; but if such cost and expense shall exceed such unpaid balance, then the Subcontractor and its surety, if any, shall pay the difference to Contractor. Such cost and expense shall include, not only the cost of completing the Work to the satisfaction of Contractor and the Architect and of performing and furnishing all labor, services, materials, equipment, and other items required therefore, but also all losses, damages, costs and expenses, (including legal fees and disbursements incurred in connection with reprocurement, in defending claims arising from such default and in seeking recovery of all such cost and expense from the Subcontractor and/or its surety), and disbursements sustained, incurred or suffered by reason of or resulting from the Subcontractor's default. Should Contractor take action by effectuating the provisions of this paragraph, and should it subsequently be determined that such action, including a termination effectuated by the terms of this Article, was improper, such termination shall be treated as a termination for convenience pursuant to Article XXI below. Subcontractor hereby transfers and assigns to Contractor the all rights under agreements that Subcontractor may have with subcontractors to Subcontractor, suppliers and vendors in connection with the Work or the Project, which transfers and assignments may be accepted at Contractor's sole discretion in the event that Contractor has taken action under this Article. Subcontractor agrees to fully cooperate with Contractor in pursuing Contractor's rights hereunder and that Contractor shall not be required to defer or delay action taken pursuant to this Article during the pendency of any review, investigation, evaluation or assessment by Subcontractor or its surety.

It is recognized that if the Subcontractor institutes or has instituted against it a case under Title 11 of the United States Code (Bankruptcy Code), such event could impair or frustrate the Subcontractor's performance of this Agreement. Accordingly, it is agreed that upon the occurrence of any such event, Contractor shall be entitled to request of Subcontractor or its trustee or other successor adequate assurances of future performance. Failure to comply with such request within ten (10) days of delivery of the request shall entitle Contractor, in addition to any other rights and remedies provided by this Agreement or by law, to terminate this Agreement. Pending receipt of adequate assurances of performance and actual performance in accordance herewith, Contractor shall be entitled to perform and furnish through itself or through others any such labor, materials or equipment for the Work as may be necessary to maintain the progress of the Work and to deduct the cost thereof from any monies due or to become due to the Subcontractor under this Agreement. In the event of such bankruptcy proceedings, this Agreement shall terminate if the Subcontractor rejects this Agreement or if there has been a default and the Subcontractor is unable to give adequate assurance that it will perform as provided in this Agreement or otherwise is unable to comply with the requirements for assuming this Agreement under the applicable provisions of the Bankruptcy Code.

Subcontractor, in addition to any other rights available to Contractor hereunder, agrees to indemnify, hold harmless and defend Contractor from and against any and all claims, demands, suits, damages, judgments, liabilities, costs and expenses (including legal fees and disbursements) arising out of or related to Subcontractor's breach of any term of the Agreement.
ARTICLE XII. Contractor shall not be responsible for any loss or damage to the Work to be performed and furnished under this Agreement, however caused, until after final acceptance thereof by Contractor and the Architect, nor shall Contractor be responsible for loss of or damage to materials, tools, equipment, appliances or other personal property owned, rented or used by the Subcontractor or anyone employed by it in the performance of the Work, however caused.

Builder’s Risk Insurance

Contractor or Owner shall effect and maintain All-Risk Builder’s Risk insurance in accordance with the Contract Documents upon all Work, materials and equipment incorporated in the Project and all materials and equipment on or about the Premises intended for permanent use or incorporation in the Project or incident to the construction thereof, the capital value of which is included in the cost of the Work, but not including any contractors’ machinery, tools, equipment or other personal property owned, rented or used by the Subcontractor or anyone employed by it in the performance of the Work.

A loss insured under Contractor or the Owner’s All-Risk Builder’s Risk insurance shall be adjusted by the Contractor or the Owner as fiduciary and made payable to Contractor or the Owner as fiduciary for the Insureds, as their interests may appear. Contractor or the Owner shall pay Subcontractors their just shares of insurance proceeds received by Contractor or the Owner, and by appropriate agreements, written where legally required for validity, and shall require Subcontractors to make payments to their subcontractors in a similar manner.

Cleaning Up

ARTICLE XIII. The Subcontractor shall, at its own cost and expense, (1) keep the Premises free at all times from all waste materials, packaging materials and other rubbish accumulated in connection with the execution of its Work by collecting and depositing said materials and rubbish in locations or containers as designated by Contractor from which it shall be removed by Contractor from the Premises without charge, (2) clean and remove from its own Work and from all contiguous work of others any soiling, staining, mortar, plaster, concrete or dirt caused by the execution of its Work and make good all defects resulting therefrom at the completion of its Work in each area, perform such cleaning as may be required to leave the area “broom clean”, and (4) at the entire completion of its Work, remove all of its tools, equipment, scaffolds, shanties and surplus materials. Should the Subcontractor fail to perform any of the foregoing to Contractor’s satisfaction, Contractor shall have the right to perform and complete such work itself or through others and charge the cost thereof to the Subcontractor.

Ethics & Compliance

ARTICLE XIV. The Subcontractor shall obtain and pay for all necessary permits and licenses pertaining to the Work and shall comply with all Federal, State, Municipal and local laws, ordinances, codes, rules, regulations, standards, orders, notices and requirements, including but not limited to those relating to safety, storm water management, discrimination in employment, fair employment practices, immigration laws or equal employment opportunity, and whether or not provided for by the Plans, Specifications, General Conditions, or other Contract Documents, without additional charge or expense to Contractor and shall arrange for and correct, at its own cost and expense, any violations thereof resulting from or in connection with the performance of its Work. Each requisition for payment shall constitute a representation and warranty that Subcontractor is in compliance with applicable law.

The Subcontractor shall at any time upon demand furnish such proof as Contractor may require showing such compliance and the correction of such violations. The Subcontractor agrees to save harmless and indemnify Contractor from and against any and all loss, injury, claims, actions, proceedings, liability, damages, fines, penalties, costs and expenses, including legal fees and disbursements, caused or occasioned directly or indirectly by the Subcontractor’s failure to comply with any of said laws, ordinances, rules, regulations, standards, orders, notices or requirements or to correct such violations therefore resulting from or in connection with the performance of Work.

The Immigration and Nationality Act as amended by the Immigration Reform and Control Act of 1986 (IRCA) makes it illegal for employers to knowingly hire persons who are not authorized to work in the United States. For all employees, employers are required to complete an Employment Eligibility Verification form I-9 which requires the prospective employee to produce documentation that establishes identity and employment eligibility. For more information visit www.uscis.gov, or speak to your attorney. Each subcontractor is solely responsible for properly completing Employment Eligibility Verifications for their own employees.

Subcontractor acknowledges represents and warrants that Subcontractor is aware of and understands IRCA, that Subcontractor is in compliance with IRCA, and that Subcontractor is not knowingly employing workers who are not authorized to work in the United States. Subcontractor agrees that Subcontractor will not employ any worker under this subcontract for whom Subcontractor has not completed and maintained I-9 verification. Subcontractor agrees that if Subcontractor acquires knowledge (conclusively or otherwise, including receipt of a “no match” letter from Social Security Administration) indicating that one of Subcontractor’s workers on this project may not be authorized to work in the United States, despite Subcontractor having conducted a facially valid I-9 verification, that Subcontractor will exercise due diligence as required by law to confirm authorization status and take appropriate action which may include termination of employment. Subcontractor represents and warrants that they will not subcontract to or utilize labor sources that it knows or has reason to know violate IRCA.

Contractor has a longstanding reputation for honesty and integrity in its business dealings and for its corporate policies promoting lawful and ethical behavior. Contractor is committed to upholding that reputation and has adopted a Standard of Business Conduct Policy Statement which governs the actions of all of its employees. Pursuant to that Policy Statement, Contractor employees are prohibited from accepting bribes or kickbacks in any form and, further, are prohibited from accepting goods or services provided by a subcontractor, supplier or vendor for the personal benefit of the employee, his or her relatives, or any entity in which the employee or his or her relatives has a personal interest. This prohibition includes, but is not limited to, work performed on an employee’s residence and applies regardless of whether the beneficiary of the goods or services pays for them. Therefore, if the Subcontractor offers or provides a bribe or kickback to any employee, or offers or provides goods or services to any employee, his or her relatives, or any entity in which the employee or his or her relatives has a financial interest, the Subcontractor will be considered to be in material breach of this Subcontract. Subcontractor undertakes the commitment to advise Contractor of any action by any entity or person associated with the project that Subcontractor believes violates any applicable law, rule or regulation. Subcontractor’s violation of any of the foregoing shall be considered as Subcontractor’s failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article XI of this Agreement.

The provisions of this Article must be incorporated into any subcontract Subcontractor enters into in connection with the performance of the Work.
Harassment

ARTICLE XV. It is the goal of Contractor to promote a work environment at the Project that is free from harassment of any kind. Contractor has ZERO TOLERANCE for harassment, including harassment on the basis of race, sex, gender, gender identity, gender expression, transgender status, sexual orientation, pregnancy, childbirth and other pregnancy-related conditions, color, national origin, ancestry, religion, religious creed, citizenship, marital status (including registered domestic partners), parental status, physical disability, mental disability, medical condition, genetic information, military or veteran status (including protected veteran status), or any other characteristic or status protected by law. Subcontractor agrees to be bound by the Policy Statement on Harassment referenced in Article XXIII below, and any violation or suspected violation of such policy by Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers shall be considered as Subcontractor's failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article XI of this Agreement. Subcontractor shall actively promote a harassment-free work environment among its officers, agents, servants, employees, subcontractors, and suppliers.

Labor to be Employed

ARTICLE XVI. The Subcontractor shall not employ workers, means, materials or equipment or assign work in any manner which may cause strikes, work stoppages or any disturbances by workers employed by the Subcontractor, Contractor or other contractors or subcontractors on or in connection with the Work or the Project or the location thereof. The Subcontractor agrees that all disputes as to jurisdiction of trades shall be adjusted in the manner or by a process that Contractor may require, including, if Contractor so requires, in accordance with any plan for the settlement of jurisdictional disputes to which Contractor may be bound in connection with the Project which may be in effect either nationally or in the locality in which the Work is being done. Subcontractor agrees that it shall assign work consistent with any such plan and shall be bound and abide by all such adjustments and settlements of jurisdictional disputes, provided that the provisions of this Article shall not be in violation of or in conflict with any provisions of law applicable to the settlement of such disputes. Should the Subcontractor fail to carry out or comply with any of the foregoing provisions, Contractor shall have the right, in addition to any other rights and remedies provided by this Agreement or the other Contract Documents or by law, after three (3) or the written notice mailed or delivered to the last known address of the Subcontractor, to terminate this Agreement or any part thereof or the employment of the Subcontractor for all or any portion of the Work, and, for the purpose of completing the Work, to enter upon the Premises and take possession, in the same manner, to the same extent and upon the same terms and conditions as set forth in Article XI of this Agreement.

The Project or General Contract may be subject to Federal prevailing wage requirements, such as the Davis-Bacon Act or the Walsh-Healy Act, or other similar laws, statutes or requirements at a state or local level. Subcontractor shall strictly comply with all applicable prevailing wage laws, statutes or requirements and shall maintain such records as necessary to establish the amount of wages and other compensation paid to workers in connection with the Project and shall submit to Turner, as a condition for payment, certified payrolls in the form prescribed by any such laws, regulations or requirements. Subcontractor expressly agrees that the indemnification obligations set forth in this Agreement shall apply to any violations by Subcontractor of any such laws, statutes or regulations and the failure to maintain records as required hereunder.

Taxes & Contributions

ARTICLE XVII. The Subcontractor for the Price herein provided, hereby accepts and assumes liability for and shall indemnify, protect and save harmless Contractor and the Owner from and against the payment of:

1. All contributions, taxes or premiums (including interest and penalties thereon) which may be payable under the Unemployment Insurance Law of any State, Federal Social Security Act, Federal, State, County and/or Municipal Tax Withholding Laws, or any other law, measured upon the payroll of or required to be withheld from employees, by whomsoever employed, engaged in the Work to be performed and furnished under this Agreement.
2. All sales, use, personal property and other taxes (including interest and penalties thereon) required by any Federal, State, County, Municipal or other law to be paid or collected by the Subcontractor or any of its subcontractors or vendors or any other person or persons acting for, through or under it or any of them, by reason of the performance of the Work or the acquisition, ownership, furnishing or use of any materials, equipment, supplies, labor, services or other items for or in connection with the Work.
3. All pension, welfare, vacation, annuity and other union benefit contributions payable under or in connection with labor agreements with respect to all persons, by whomsoever employed, engaged in the Work to be performed and furnished under this Agreement.

In furtherance of, and in addition to the agreements, duties obligations and responsibilities of the Subcontractor with respect to the payment of sales, use, personal property and other taxes set forth in Articles IV and XVII of this Agreement, the Subcontractor agrees to reimburse and otherwise indemnify Contractor and the Owner for any expenses, including legal fees and litigation arising from, or related to the Subcontractor's failure to pay any sales, use, personal property or other taxes based upon labor, services, materials, equipment or other items acquired, performed, furnished or used for or in connection with the Work.

Patents

ARTICLE XVIII. The Subcontractor hereby agrees to indemnify, protect and save harmless Contractor and the Owner from and against any and all liability, loss or damage and to reimburse Contractor and the Owner for any expenses, including legal fees and disbursements, to which Contractor and the Owner may be put because of claims or litigation or account of infringement or alleged infringement of any letters patent or patent rights by reason of the Work or materials, equipment or other items used by the Subcontractor in its performance.

Disputes

ARTICLE XIX. The parties recognize that problems and disputes between them may occur and that it is preferable for them to reach an amicable resolution of same without the need to resort to formal dispute resolution procedures. In that regard, they each pledge to participate in good faith in voluntary and non-binding Alternate Dispute Resolution (ADR) procedures in the form of a mediation conducted by a neutral mediator, or such other form as the parties otherwise agree, as a condition precedent to addressing the dispute in any other forum unless Contractor agrees in writing to waive this condition precedent. The procedure for requesting such an ADR shall begin with a written notice of request for ADR delivered by one party hereto to the other. Within 14 days following the receipt of such notice, lead representatives of Subcontractor and Contractor shall meet in an effort to resolve the dispute. In the event that the dispute remains unresolved after the lead representatives meeting, a meeting shall take place between the President of Subcontractor and the General Manager or Operations Manager of Contractor within 20 days thereafter. In the event that the dispute remains unresolved after the President/Manager meeting, the parties shall proceed with ADR procedures described in the Article. However, in the event that such disputes are not resolved by mediation or another ADR
The document contains detailed provisions regarding the procedures and legal obligations of a contractor and subcontractor. The text outlines the conditions under which disputes can be resolved, including the exclusive right of the contractor to arbitrate disputes, and the subcontractor's obligations to perform their work diligently. Additionally, it discusses the mechanics' liens and claims, assignment, subletting, and the termination for convenience clause. Each section is meant to clarify the roles and responsibilities of both parties in the contract.
Guarantees

ARTICLE XXII. The Subcontractor hereby guarantees the Work to the full extent provided in the Plans, Specifications, General Conditions, Special Conditions and other Contract Documents.

The Subcontractor shall expeditiously remove, replace and/or repair at its own expense and at the convenience of the Owner any faulty, defective or improper Work, materials or equipment existing or discovered within one (1) year from the date of the acceptance of the Project as a whole by the Architect and the Owner or for such longer period as may be provided in the Plans, Specifications, General Conditions, Special Conditions or other Contract Documents.

Without limiting the generality of the foregoing, the Subcontractor warrants to the Owner, the Architect and Contractor, and each of them, that all materials and equipment furnished under this Agreement will be of first class quality and new, unless otherwise required or permitted by the other Contract Documents. The Work performed pursuant to this Agreement will be free from defects and that the Work will strictly conformed with the requirements of the Contract Documents. Work not conforming to such requirements, including substitutions not properly approved and authorized, shall be considered defective. All warranties contained in this Agreement and in the Contract Documents shall be in addition to and not in limitation of all other warranties or remedies required and/or arising pursuant to applicable law. Failure of Subcontractor to honor and satisfy the foregoing and any other warranties or guarantees required of the Subcontractor under the Contract Documents, shall constitute a default by Subcontractor.

Accident Prevention

ARTICLE XXIII. The Subcontractor agrees that the prevention of accidents to workmen and property engaged upon or in the vicinity of the Work is its responsibility. The Subcontractor agrees to comply with all Federal, State, Municipal and local laws, ordinances, rules, regulations, codes, standards, orders, notices and requirements concerning safety as shall be applicable to the Work, including, among others, the Federal Occupational Safety and Health Act of 1970 and the Clean Water Act, as amended, and all standards, rules, regulations and orders which have been or shall be adopted or issued thereunder, and with the safety standards established by the Contract Documents. When so ordered, the Subcontractor shall stop any part of the Work which Contractor deems potentially unsafe, noncompliant or in violation until corrective measures satisfactory to Contractor have been taken, and the Subcontractor agrees that it shall not have nor make any claim for damages growing out of such stoppages. Should the Subcontractor neglect to take such corrective measures, Contractor may do so at the cost and expense of the Subcontractor and may deduct the cost thereof from any payments due or to become due to the Subcontractor. Failure on the part of Contractor to stop unsafe practices shall in no way relieve the Subcontractor of its responsibility therefor.

This Subcontractor acknowledges the receipt of Contractor's "Corporate Safety, Health and Environmental Policy", "Substance Abuse Policy", "Equal Employment Opportunity" policy and "Policy Statement on Harassment." Subject to applicable law this Subcontractor further agrees to be bound to these policies as a part of the supplemental and special conditions to the contract for construction of the project, including any amendments or modifications of such policies that Contractor may issue at any time. Subcontractor further acknowledges that Contractor endeavors to employ on its projects robust programs with respect to safety and storm water management, as well as compliance with relevant laws and regulations, including, without limitation, OSHA and the Clean Water Act. Such programs may include aggressive measures and requirements, such as reporting, training of personnel and inspections that may be considerably above and beyond minimum standards. Subcontractor agrees to comply with any and all requirements Contractor may impose in connection with such programs and policies, whether as part of this Subcontract or hereafter, and the cost and expense of such compliance shall be borne by the Subcontractor.

In the event that hazardous substances of a type of which an employer is required by law to notify its employees are being used or stored on the site by the Subcontractor, the Subcontractor's subcontractors and anyone directly or indirectly employed, or otherwise retained, by them or on their behalf, the Subcontractor shall immediately provide written notice of the chemical composition thereof (including, without limitation, the applicable Material Safety Data Sheet) to Contractor in sufficient time to permit compliance with such laws by Contractor, other subcontractors and other employers on the site. In the event that the Subcontractor encounters on the site material reasonably believed to be hazardous substances (including, without limitation, asbestos or polychlorinated biphenyl) which has not been rendered harmless, the Subcontractor shall immediately stop Work in the area affected and immediately report the condition to Contractor in writing. Work in the affected area shall resume when such hazardous substances have been rendered harmless or removed as determined by Contractor in its sole and absolute discretion. To the extent of Subcontractor's responsibilities hereunder, Subcontractor does indemnify and save harmless Contractor from and against any and all loss, injury, damage, claims, actions, proceedings, liability, damages, fines, penalties, costs, and expenses, including legal fees and disbursements, caused or occasioned directly or indirectly by the Subcontractor in regard to such hazardous substances.

Assumption of Liability & Indemnity

ARTICLE XXIV. Throughout this Agreement, the "Indemnified Party (ies)" means Contractor, the Owner, any party required to be indemnified pursuant to the General Contract, and any of their respective officers, agents, servants, or employees, and affiliates, parents and subsidiaries. Except as otherwise provided below, the Subcontractor hereby assumes the entire responsibility and liability for any and all actual or potential damage or injury of any kind or nature whatsoever (including death, business interruption or loss of use resulting therefrom) to all persons and entities, whether employees of the Subcontractor or any tier of the Subcontractor or otherwise, to all property; or as a result of a perceived risk of such damage or injury (including actions taken to avoid or contain such actual or potential damage or injury, whether required or incurred by a public authority or otherwise); caused by, resulting from, arising out of or occurring in connection with the execution of the Work, or in preparation for the Work, or any extension, modification, or amendment to the Work by change order or otherwise. Should any claims for such actual or potential damage or injury (including death resulting therefrom) be made or asserted, whether or not such claims are based upon an Indemnified Party's alleged active or passive negligence or participation in the wrong or upon any alleged breach of any statutory duty or obligation on the part of an Indemnified Party, the Subcontractor agrees to indemnify and save harmless the Indemnified Party from and against any and all such claims and further from and against any and all loss, cost, expense, liability, damage, penalties, fines or injury, including legal fees and disbursements, that the Indemnified Party may directly or indirectly sustain, suffer or incur as a result thereof. However, this Article shall not be construed in any way to require the Subcontractor, its agents, and its employees to indemnify the Indemnified Party for damages because of property damage or
bodily injury caused by or resulting from the sole negligence of the Indemnified Party. In all other instances, including but not limited to, instances where the Indemnified Party is partially, but not solely, negligent, the Subcontractor agrees to and does hereby assume, on behalf of the Indemnified Party, the defense of any action at law or in equity which may be brought against the Indemnified Party upon or by reason of such claims and to pay on behalf of the Indemnified Party, upon demand, the amount of any judgment that may be entered against the Indemnified Party in any such action. In the event that any such claims, loss, cost, expense, liability, damage, penalties, fines or injury arise or are made, asserted or threatened against the indemnified Party, Contractor shall have the right to withhold from any payments due or to become due to the Subcontractor an amount sufficient in its judgment to protect and indemnify the Indemnified Party from and against any and all such claims, loss, cost, expense, liability, damage, penalties, fines or injury, including legal fees and disbursements, or Contractor in its discretion may require the Subcontractor to furnish a surety bond satisfactory to Contractor guaranteeing such protection, which bond shall be furnished by the Subcontractor within five (5) days after written demand has been made therefor.

In furthermore to but not in limitation of the indemnity provisions in this Agreement, Subcontractor hereby expressly and specifically agrees that its obligation to indemnify, defend and save harmless as provided in this Agreement shall not in any way be affected or diminished by any statutory or constitutional immunity it enjoys from suits by its own employees or from limitations of liability or recovery under worker's compensation laws. IN THE EVENT THAT THE LAW OF THE STATE IN WHICH THE PROJECT IS LOCATED (OR OTHER APPLICABLE LAW) LIMITS THE INDEMNITY OBLIGATIONS OF THE SUBCONTRACTOR, THEN THE INDEMNITY OBLIGATIONS OF THE SUBCONTRACTOR SHALL BE ENFORCED TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, AND THIS ARTICLE SHALL BE CONSTRUED TO CONFORM TO SUCH LAW.

Insurance

ARTICLE XXV. Insurance.

A. Required Insurance

Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Contractor shall be in place and maintained until completion and final acceptance of the Work:

1. WORKERS' COMPENSATION in accordance with laws of the State in which the Work is situated, and EMPLOYERS' LIABILITY INSURANCE in the amount of $1,000,000.

2. COMMERCIAL GENERAL LIABILITY INSURANCE INCLUDING COMPLETED OPERATIONS, CONTRACTUAL LIABILITY INSURANCE AGAINST THE LIABILITY ASSUMED HERETABOVE, and including INDEPENDENT CONTRACTOR'S LIABILITY INSURANCE if the Subcontractor sublets to another all or any portion of the Work, Personal Injury Liability, Broad Form Property Damage (including completed operations), and Explosion, Collapse and Underground Hazards, with the following minimum limits: (Coverage shall be equivalent to current ISO Occurrence Form). No exclusions or restrictions for Crane usage will be permitted.

$ SDS /Occurrence

$ SDS General Aggregate

Subcontractor has elected to obtain the above insurance coverages set forth in paragraphs 1 and 2 above in the manner set forth in the Subcontractor Election A, B or C (with Subcontractor Election B having a further coverage option that is stated in, and may be elected by checking, Sub-Part B-1) that is checked below (Note: only one of Subcontractor Election A, B or C is to be selected, however Subpart B-1 may also be selected but only if Subcontractor Election B is selected):

SDS Subcontractor Election A). The above insurance coverages shall be provided by insurance companies selected by the Subcontractor. Contractor shall have the right, without limitation, to reject any insurance company selected by Subcontractor that has an A.M. Best rating of less than A or Standard and Poor's rating of less than AA or a Moody's rating of less than Aa. This insurance coverage shall include Products and Completed Operations coverage which Subcontractor agrees to maintain for a period equal to the statute of repose in the state in which the project is located. Subcontractor further agrees that it shall require each of its sub-subcontractors to provide the above insurance coverages subject to the terms and conditions set forth below. All costs are included in the Price and are to be paid by the Subcontractor.

SDS Subcontractor Election B). The above insurance coverages shall be provided through a consolidated insurance program that insures Subcontractor and its eligible lower tier subcontractors, which program has been made available to Subcontractor by Contractor, as described and with limits of liability, terms and conditions set forth in the Contract Documents, including, but not limited to, the CCIP Manual, and Subcontractor agrees to all terms and conditions therein, and makes all representations and warranties, associated therewith. Subcontractor acknowledges and agrees i) that insurance costs will be incurred to provide the above insurance coverages under the consolidated program; ii) that as opposed to Subcontractor including such insurance costs in the Price and paying such costs directly, the Price does not include insurance costs for the above insurance coverages, iii) that it is more convenient and efficient for Contractor to pay such insurance costs on Subcontractor's and Subcontractor's eligible lower tier subcontractor's behalf, and iv) that Contractor is authorized by Subcontractor to pay such insurance premiums on Subcontractor's behalf and Subcontractor's eligible lower tier subcontractor's behalf.

SDS Sub-part B-1 to Subcontractor Election B. By checking this further election, Subcontractor agrees that it has selected Subcontractor Election B with respect to providing the above insurance coverages for eligible lower tier subcontractors engaged by or through Subcontractor to the extent
permitted by the Contract Documents (including the CCIP Manual), however, Subcontractor agrees that as to Subcontractor itself, the above insurances will be provided by Subcontractor in accordance with the terms and conditions of Subcontractor Election A above. Accordingly, Subcontractor itself shall be deemed an “Excluded Party” with respect to the consolidated insurance program as described in the Contract Documents (including the CCIP Manual). Any other “Excluded Party” lower tier subcontractors (if applicable) with respect to the consolidated insurance program arranged by Contractor shall be required to procure their own insurance coverages at their expense. For Subcontractor’s lower tier subcontractors that are not an “Excluded Party”, the above insurance coverages shall be provided through the consolidated insurance program as described in Subcontractor Election B to the extent permitted by the Contract Documents (including the CCIP Manual).

Subcontractor represents and warrants that all amounts, information and data that Subcontractor and its lower tier subcontractors has provided or will provide in connection with CCIP applications and other related forms and documents, including estimated payroll and insurance costs, are, or shall be when submitted, true and accurate. Subcontractor represents and warrants that the amount of estimated unburdened payroll (payroll without benefits or overtime, unless the overtime portion is included as required by the regulations of the State in which the project is located) actually used by Subcontractor and its eligible lower tier subcontractors in calculating the Price is $ SDS ("Initial Payroll Estimate" or "Estimated On-Site Payroll") (if Sub-Part B-1 is elected, this amount only pertains to Subcontractor’s eligible lower tier subcontractors). Subcontractor further agrees that all such amounts, data and information, including the estimated unburdened payroll amount used to calculate the Price, shall be subject to audit and verification if Contractor or the CCIP Administrator elects to do so and Subcontractor agrees to cooperate fully and provide documents and other records requested in connection with such audit and verification and to cause its lower tier subcontractors to do the same. Subcontractor acknowledges that such amounts, data and information (and iii) that with the CCIP Manual or through audit may be used to calculate final and interim cost adjustments to the Price and/or payments to Subcontractor (at Contractor’s discretion) as described in the CCIP Manual. Contractor and the CCIP Administrator shall not be required to use any amount greater than the foregoing “Estimated On-Site Payroll” as the unburdened payroll amount when calculating such adjustments for Subcontractor and its lower tier subcontractors as described in the CCIP Manual.

or

SDS Subcontractor Election C). The above insurance coverages shall be provided through an Owner Controlled Insurance Program (OCIP) as described and with limits of liability set forth in the Contract Documents and Subcontractor agrees to all terms, and makes all representations and warranties, associated therewith.

Subcontractor acknowledges that if any of the above insurance coverages are provided through a consolidated program arranged pursuant to Subcontractor Election B, Subcontractor Election B-1 or Subcontractor Election C, such coverage will not apply to any operations off of the premises (as defined in the CCIP Policy or Manual or OCIP Policy or Manual) and Subcontractor shall provide and maintain the above insurance coverages with respect to off-premises operations. Subcontractor further agrees that in the event that the insurance coverage provided by a consolidated insurance program (Subcontractor Election B or C) is cancelled prior to the completion of the Work, subcontractor shall provide the insurance coverage (set forth in paragraphs 1 and 2). Subcontractor further acknowledges and represents i) that it was not required to select any particular election provided for above and was free to choose Subcontractor Election A if it preferred to apply for and obtain insurance itself, ii) that Subcontractor has reviewed the other Subcontractor Elections available for this Project and has chosen the election selected above, and iii) that Subcontractor has satisfied itself that the Subcontractor Election checked above is preferable to Subcontractor for reasons of convenience, economics and/or coverage afforded.

3. COMMERCIAL AUTOMOBILE LIABILITY INSURANCE covering all owned, non-owned and hired automobiles used in connection with the Work, with the following minimum limits:

   Combined Single Limit $ SDS /accident

4. ALL RISK CONTRACTOR’S EQUIPMENT INSURANCE COVERAGE shall be provided by all Subcontractors utilizing a crane or other equipment in connection with the performance of the Work and insured to the full value of equipment.

B. Insurance Conditions

The following terms and conditions are applicable to all insurance:

Before commencing the Work, the Subcontractor shall furnish a certificate(s), satisfactory to Contractor from each insurance company showing that the above insurances (1, 2 Subcontractor Election A, 3 and CGL operations off of the premises under 2 Subcontractor Election B and C, and 4) are in force, stating policy numbers, dates of expiration, and limits of liability thereunder, and further providing that should any of the described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Subcontractor shall advise Contractor of the amount of any Deductible or Self-Insured Retention that exists on any policies of insurance on the face of the certificates provided. Subcontractor shall be responsible for and agrees to pay and/or reimburse Contractor for any such Deductible or Self-Insured Retention.

The Subcontractor shall name the Indemnified Parties and such other entities as may be reasonably requested as additional insureds under the policies of insurance listed in paragraph A maintained by the Subcontractor (with the exception of Workers Compensation insurance), whether during the performance of the Work or any time thereafter. The coverage to be provided to the additional insureds shall be for all liability arising out of the Work. Subcontractor will submit a certificate of
insurance and a copy of endorsements to the insurance policies listing all parties required to be named by Subcontractor as additional insureds. Subcontractor hereby waives all rights of recovery from Contractor and the Indemnified Parties, including but not limited to rights of subrogation, with respect to any matter, claim or suit that is required to be covered by insurance to be maintained by Subcontractor pursuant to the Contract Documents.

It is expressly agreed by and between Subcontractor and Contractor that all insurance, whether issued on a primary or excess basis, afforded the additional insureds shall be primary insurance to any other insurance available to the additional insureds and that any other insurance carried by the additional insureds shall be excess of all other insurance carried by the Subcontractor and shall not contribute with the Subcontractor’s insurance. Subcontractor further agrees that the amount of insurance available to Contractor and the additional insureds shall be for the full amount of the loss up to policy limits of liability and shall not be limited to the minimum requirements of this Subcontract. Subcontractor further agrees to provide endorsements on its insurance policies that shall state the foregoing; however, Subcontractor’s failure to provide such endorsement shall not affect Subcontractor’s agreement hereunder.

If the Subcontractor fails to procure and maintain such insurance, if required, Contractor shall have the right, but not the obligation, to procure and maintain said insurance for and in the name of the Subcontractor and the Subcontractor shall pay the cost thereof and shall furnish all necessary information to make effective and maintain such insurance or at Contractor’s option, Contractor may offset the cost incurred by Contractor against amounts otherwise payable to Subcontractor hereunder. Subcontractor further agrees that in the event of such failure to procure and maintain such insurance, Subcontractor shall be liable for all amounts which would have been payable pursuant to the insurance required by this Subcontract. If, in Contractor’s discretion, Contractor is concerned that any insurance company selected by Subcontractor has, at any time, faced diminished financial strength or that the insurance company may no longer provide the same level of financial strength (such as a decline in an A. M. Best, Standard and Poor’s or Moody’s rating), Contractor may require that Subcontractor provide replacement insurance coverage through an insurance company satisfactory to Contractor.

IN THE EVENT THAT THE LAW OF THE STATE IN WHICH THE PROJECT IS LOCATED (OR OTHER APPLICABLE LAW) LIMITS THE ADDITIONAL INSURED COVERAGE THAT CONTRACTOR MAY REQUIRE FROM SUBCONTRACTOR, THEN SUBCONTRACTOR SHALL BE REQUIRED TO OBTAIN ADDITIONAL INSURED COVERAGE TO THE FULLEST EXTENT OF COVERAGE AND LIMITS ALLOWED BY APPLICABLE LAW AND THIS CONTRACT SHALL BE READ TO CONFORM TO SUCH LAW.

Bonds

ARTICLE XXVI. The Subcontractor shall furnish to Contractor a performance bond in the amount of $ SDS and a separate payment bond in the amount of $ SDS the form and contents of such bonds and the Surety or Sureties thereon to be satisfactory to Contractor. Such bonds shall be furnished to Contractor within ten (10) calendar days after Subcontractor has executed this Agreement or within such other time period agreed to by Contractor in writing. In the event Subcontractor fails to furnish such bonds to Contractor within the time period as hereinabove provided, such failure shall constitute a default under this Agreement in which event Contractor shall have all of the rights and remedies provided in Article XI hereof with respect to default on the part of Subcontractor including, without limitation, the right to terminate this Agreement.

Without limiting the responsibilities of Subcontractor and its Surety under the terms of this Agreement, Subcontractor and its Surety hereby agree to promptly pay all lawful claims of subcontractors, materialmen, laborers, persons, firms or corporations for labor or services performed or materials, supplies, machinery equipment, rentals, fuels, oils, tools, appliances, insurance and other items furnished, used or consumed in connection with the performance of the Work furnished for in said Subcontract and any and all modifications thereof, and shall indemnify and save harmless Contractor of and from all liability, loss, damage and expense, including interest, costs and attorney fees, which Contractor and/or its Surety may sustain by reason of Subcontractor’s or its Surety’s failure to do so.

Subcontractor and its Surety hereby agree to execute and deliver to Contractor when requested in connection with the issuance of change orders under this Agreement, Rider “A” amendments (or other documents as Contractor may require) increasing the amount (PENAL SUM) of the Payment and Performance Bonds furnished by the Subcontractor. The reasonable premiums or other charges paid by the Subcontractor for the procurement of the Rider “A” amendments will be paid as a change to this Agreement.

Severability

ARTICLE XXVII. In the event that any provision or any part of a provision of this Agreement shall be finally determined to be superseded, invalid, illegal or otherwise unenforceable pursuant to applicable laws by an authority having jurisdiction, such determination shall not impair or otherwise affect the validity, legality, or enforceability of the remaining provisions, or parts of provisions of this Agreement, which shall remain in full force and effect as if the unenforceable provision or part were deleted.

Business Enterprise Compliance

ARTICLE XXVIII. In the event that the Project or General Contract is subject to any federal, state, or local program(s) requiring Contractor or its subcontractors to meet certain goals or commitments with regard to the award of subcontracts or supply contracts to small and/or disadvantaged businesses, including but not limited to minority owned, woman owned, veteran owned and local businesses, then the provisions of this Article shall apply. Subcontractor acknowledges that: a) the Federal Small Business Program applies if the General Contract is a direct federal government contracts (i.e., contracts awarded by a federal executive agency); b) the California State Contracted Business Enterprise Program applies to projects that are funded in whole or in part with federal funds, including those funded through a grant awarded to the Owner; c) there are state and local programs that may apply to public projects that are funded by a state or local government; and d) these programs have different eligibility requirements as well as different methods of counting small business, minority, and other designated categories of participation at all subcontracting levels. Subcontractor agrees that it shall fully understand and comply with the rules and regulations of all such programs to the fullest extent applicable to the General Contract, Subcontract or this Agreement.

A. If Subcontractor is or otherwise satisfies the qualifications or requirements of any of the following, or if Subcontractor has in any way represented or given Contractor reason to believe that such is the case: (a) a small business under the Federal Small Business Program (i.e., a small business, a small disadvantaged business (SDB), a HUBZone small business, a
service-disabled veteran-owned small business (SDVOSB), a veteran-owned small business (VOSB), or a women-owned small business (WOSB)); (b) a Disadvantaged Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), or Woman Owned Business Enterprise (WBE), or the functional equivalent under federal, state, or local law (hereinafter collectively referred to as a "DBE"); or (c) a category or status designated by state or local authorities which otherwise classifies or designates certain business entities, collectively referred to as Local Business Enterprises (LBES); then Subcontractor acknowledges, represents, agrees and warrants that: (i) Subcontractor in fact has such status and has obtained all required federal, state, or local certifications of such status; (ii) Contractor is relying upon such representation and status to fulfill any and all SBE, DBE or LBE goals or commitments Contractor has made to the Owner and/or a government agency or as otherwise required of Contractor; (iii) Subcontractor shall maintain its status as an SBE, DBE or LBE throughout the performance of the subcontract or purchase order; (iv) Subcontractor immediately shall notify Contractor if there is a change in Subcontractor’s status as an SBE, DBE or LBE; (v) Contractor has engaged Subcontractor based on Subcontractor’s representation that Subcontractor shall perform in such a manner that 100% of Subcontractor’s Work and 100% of the Subcontract value shall be eligible for credit towards Contractor’s goals and commitments with regard to the award of subcontracts to SBEs, DBEs and/or LBES; (vi) Subcontractor shall perform in such a manner that Contractor shall be eligible to receive credit towards Contractor’s goals and commitments regarding the award of subcontracts to SBEs, DBEs, and/or LBES for 100% of the Subcontract value; (vii) Subcontractor will not engage in any effort or take any action that would prevent Contractor from receiving 100% credit; (viii) Subcontractor shall engage in a genuine commercially useful function as defined by law and shall not act as a pass-through to sub-subcontractors, suppliers, or vendors who are not SBEs, DBEs or LBES; (ix) Subcontractor will not engage in any effort to create the appearance of SBE, DBE or LBE legitimacy or participation when in fact it does not exist; and (x) if Subcontractor awards any of its work through sub-subcontract, purchase order, or otherwise, to an SBE, DBE or LBE, then Subcontractor will do so only in a manner that does not affect the ability to receive credit as described above for 100% of the Subcontract value, including awarding same only to SBE, DBE or LBE sub-subcontractors, suppliers, or vendors if and to the extent necessary to achieve this result.

B. If Subpart A. of this Article is not applicable to Subcontractor, then Subcontractor acknowledges and agrees that the obligations and commitments assumed by Contractor with regard to the award of subcontracts to SBEs, DBEs and/or LBES, have likewise been assumed by Subcontractor pursuant to this Agreement, including but not limited to meeting or exceeding the same percentage or other requirements or goals for each separate category of SBE, DBE and/or LBE employment in connection with the performance of the Work and satisfying all obligations and responsibilities with respect to reporting and documenting same.

C. The provisions of this Subparagraph C. shall be applicable to all Subcontractors. If or when Subcontractor awards any of its work through sub-subcontract, purchase order, or otherwise, to an SBE, DBE or LBE, to the extent permitted or required by this Agreement, then Subcontractor further acknowledges, represents, agrees and warrants that Subcontractor shall: (i) verify that such SBE, DBE or LBE has such status and has obtained all required federal, state, or local certification of such status; (ii) require its SBE, DBE or LBE sub-subcontractors, suppliers, or vendors to maintain their status as an SBE, DBE or LBE throughout the performance of their sub-subcontract, purchase order, or other agreement; (iii) immediately notify Contractor if there is a change in a sub-subcontractor’s, supplier’s, or vendor’s status as an SBE, DBE or LBE; (iv) require all SBE, DBE or LBE sub-subcontractors, suppliers, or vendors to engage in a genuine commercially useful function as defined by law; (v) ensure that all SBE, DBE or LBE sub-subcontractors, suppliers, or vendors are not acting as a pass-through to another sub-subcontractor, supplier, or vendor who is not a SBE, DBE or LBE; and (vi) not permit a sub-subcontractor, supplier, or vendor to engage in any effort to create the appearance of SBE, DBE or LBE legitimacy or participation when in fact it does not exist.

Subcontractor agrees that: (i) Contractor, or its authorized representative, shall have access to and the right to examine and audit all of Subcontractor’s records relating to Subcontractor’s Work under this Agreement including, but not limited to, lower-tier subcontracts, equipment leases, purchase orders, and other agreements with third parties; (ii) Subcontractor and its sub-subcontractors, vendors and suppliers shall submit any forms, certifications or documents required by Contractor relating to participation on the Project, regardless of whether such forms or documents have been requested or required by the Owner; (iii) failure to honor and comply with any of the terms or conditions of this Article and/or its failure to comply with any applicable law relating to the award of subcontracts to SBEs, DBEs and/or LBES shall constitute a material breach of this Agreement; (iv) submission by Subcontractor of a monthly requisition for payment or invoice shall constitute a certification by Subcontractor that each and every representation and warranty set forth in this Article is and remains truthful, accurate, and complete, and that Subcontractor is in full compliance with the terms and conditions of this Article, as of the date such requisition or invoice is submitted to Contractor; (v) Contractor may rely on these certifications in making payment to Subcontractor and in making like representations to others; (vi) Contractor shall have the right to withhold payment from Subcontractor if Contractor has reasonable grounds to believe that Subcontractor is not in full compliance with its obligations set forth in this Article; and (vii) that Subcontractor shall include a provision in all agreements with its sub-subcontractors, vendors and suppliers, whereby such sub-subcontractors, vendors and suppliers acknowledge and agree to conduct their operations and affairs in a manner that ensures that Subcontractor is not in violation of any provision in this Article and to provide forms, certifications and documents as required by Contractor or this Article.
ARTICLE XXIX. In the event that the General Contract under which this Subcontract is being issued is a General Contract between Contractor and the United States Government or an agency thereof, additional Federal Acquisition Regulation ("FAR") and agency FAR supplemental provisions are applicable to this Agreement. Such FAR and agency FAR supplemental provisions are contained on the attached document entitled Federal Supplement" and such provisions are hereby incorporated by reference herein as if set forth at length herein. Subcontractor hereby ratifies and re-affirms its Subcontractor Certifications and Disclosures that Subcontractor signed and submitted with its proposal submitted earlier to Contractor and such Certifications and Disclosures are hereby incorporated herein by reference as if set forth at length herein.

ARTICLE XXX. This Agreement constitutes the entire agreement between the parties hereto. No oral representations or other agreements have been made by Contractor except as stated in the Agreement. This Agreement may not be changed in any way except as herein provided, and no term or provision hereof may be waived by Contractor except in writing signed by its duly authorized officer or agent. Subcontractor acknowledges and represents that it has completed and submitted to Contractor a prequalification questionnaire, that all statements therein and in the attachments to such questionnaire were true, accurate and complete, and remain true, accurate and complete, and that Contractor has relied on truthfulness, accuracy and completeness of such statements and the contents of the attachments thereto in deciding to enter into this Agreement. The marginal descriptions of any term or provision of this Agreement are for convenience only and shall not be deemed to limit, restrict or alter the content, meaning or effect thereof.

The said parties, for themselves, their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of all of the terms and provisions herein contained.

In Witness Whereof the parties to these presents have hereunto set their hands as of the day and year first above written.

**SUBCONTRACTOR**

By: SDS

Official title: SDS

Subcontractor's Federal Employers Identification Number (FEIN) SDS

Subcontractor's State Unemployment Ins. No. SDS

Subcontractor's License No. SDS

Subcontractor's State Sales Tax Registration No. SDS

**CONTRACTOR**

By: Vice-President

Official title: SDS

Subcontractor's Federal Employers Identification Number (FEIN) SDS

Subcontractor's State Unemployment Ins. No. SDS

Subcontractor's License No. SDS

Subcontractor's State Sales Tax Registration No. SDS
Site Furnishings—Bid Package: 32b

This Subcontract shall be identified as "Site Furnishings", and shall include but not limited to the furnishing and installation of items, as required, as identified in Specification 329300 Site & Street Furnishings, and as described herein. All work is to be performed in strict accordance with the contract documents.

Contract Documents
This Subcontractor is responsible for all bid & contract documents, drawings and specifications including, but not limited to, those listed below:

1.  2018-0112 IAAM Bid Set Project Manual (Specifications) Volumes 1 - 4 dated 06/10/19..
2.  20180615 Detyens-IAAM ESMP Approval Letter dated 06/15/2018.
3.  IAAM 026113 Contaminated Material Specification

Safety
Documents & Policies:
This Contractor agrees to perform all work in compliance with the following documents and as further enumerated herein:

1. List of referenced forms and policies that are hereby specifically made part of the Contract Documents:
   a. Turner Construction Company Corporate Environmental Health & Safety Program.
   c. This Contractor to abide by all applicable Federal, State and Local Regulations for Safety including, but not limited to OSHA 1926 Rules for Construction, NFPA, ANSI and NEC.

2. General Requirements
   a. This Contractor will have at least one (1) OSHA Construction Safety 30-hr trained employee on site at all times. Two are required if contract value exceeds 5 million. Contractor may complete the 30-Hour Training via www.TurnerUniversity.com online at a cost. Subcontractor must update their 30-hour class every 2-years by completing the Safety Update Training course on Turner University. These requirements must be met prior to work starting and as a condition of Turner Brownstone’s acceptance of application for payment corresponding to Contractor's mobilization.

   b. This Contractor is responsible to have their field work forces attend Turner Brownstone’s Safety Orientation at Turner Brownstone’s field office first day on the job. As new manpower arrives on the jobsite they are to attend this safety orientation prior to the start of any work activities. All contractors will comply with the Turner Brownstone Subcontractor Substance-Abuse Policy. Include cost of 10-panel testing and badging at $52.50 per test. All testing will be administered by FC Background (or agent) prior to orientation with a photo-badge issued by them. Further testing (random, suspicion, etc) will be conducted per our policy. Receipt of FC Background Service Agreement Packet is hereby acknowledged.
c. This Contractor shall schedule with Turner Brownstone a Safety pre-planning meeting prior to start of new work activities/operation. This meeting will be held to coordinate a specific safety plan for this Contractor work. Additional pre-planning meetings will be scheduled, as required for new work activities/operation during the course of the project.

d. Contractor Safety Manager Requirements are as follows:

If the subcontractor will exceed 25 employees or more on site, including sub tiers, for more than two weeks, they must provide a full time Safety Manager for the duration of their work when the workforce exceeds threshold above, who:

a) Is qualified to recognize safety hazards; and
b) Has the authority to take corrective action; and
c) Possesses current certifications in first aid, CPR and AED;
d) Possesses "Competent Person" level training in their area of expertise (such as excavation or electrical safety) and
e) Possesses a recent OSHA 30-hour card (if not within the last three years Turner Brownstone's 2 year Safety Update Training has been completed and is up to date through Turner University); and
f) Has an academic degree in safety, CSP, ASP, or CHST designation, OR has a minimum three (3) years of prior work history as a designated construction safety manager.

At 100 employees, or when one safety manager cannot reasonably manage the workforce due to the distance between crews, provide a second safety manager.

General Requirements for Safety Managers:

The total cost of the above-mentioned safety personnel are to be borne entirely by the subcontractor. Subcontractors will submit the resumes and certifications of potential safety managers for consideration to Turner Brownstone Construction’s Safety Department for approval.

e. The contractor safety manager (when required) and corporate safety director must review Project Manual, Additional Provisions, scope, the Turner Brownstone safety program and plan, and attend the contract buyout meeting with Turner Brownstone.

f. A contractor principal is required to schedule with Turner Brownstone and visit the project quarterly for a safety inspection with Turner Brownstone staff.

g. This contractor acknowledges receipt of the Turner Brownstone Subcontractor Safety Submittal Form. This form shall be completed in its entirety and submitted to Turner Brownstone Safety for review prior to mobilizing to the site. All referenced documents must be attached to the form.

h. This contractor acknowledges that it must deliver the following training, at a minimum, when it applies to its own employees and sub-tiers, and provide Turner Brownstone (upon request) with documentation of:

- Fall Protection Training (all employees)
- Fall Protection Competent Person for applicable supervision
• Scaffold Safety Training (per OSHA)
• Scaffold Competent Person for applicable supervision
• 1st Aid/CPR (current) for at least two on-site employees
• Specific training will be required to operate any equipment.

Other OSHA-required training may apply. Please review Turner Brownstone Subcontractor Safety Submittal Form as well.

i. Turner Brownstone requires all contractors using cranes to have a 3rd-party inspection completed on site after the crane is set up, prior to use, and quarterly thereafter. This excludes small 5 ton or less vendor-owned boom trucks making sporadic drywall and brick deliveries. All crane operators must be currently certified by NCCCO, CIC or NCCER for the type of crane being used and have documented experience on the type of crane to be used. This includes deliveries to the site. Review additional crane and rigging requirements in the Turner Brownstone Site Safety Plan.

j. This project will enforce Turner Brownstone's "Nothing Hits the Floor" Policy. All trash, debris, and scrap materials are to be placed immediately upon creation into contractor-provided rolling trashappers, forklift-mounted hoppers, or other trash collection receptacles that do not require workers to lift and carry. Upon filling any such receptacle, this contractor must remove all of its trash/debris and recyclables from the building to the agreed upon roll-off or dumpster. Provide an ample number of trash receptacles to allow each crew/team that generates waste or recyclables to have one. No “piling” will be allowed on the floors. Construction materials, job-boxes and tools must be stored/staged in approved areas, and never in walkways or stairways. Cords, hoses and welding leads must be kept off the floor at least 8 feet high in walkways, aisles, stairs and access points. Provide non-conductive hanger mechanisms or cord/hose pole-stands.

k. Lay-down and storage areas are extremely limited on site. Contractors are not to bring more materials onto site than they will install during their shift. All materials stored in the building must be staged on wheels to allow for quick and easy relocation. All hole covers must be low-profile and have beveled edges (or be flush-mount where instructed by Turner Brownstone) while still meeting the intent of the OSHA standard for fall protection. This will allow for easy movement of materials on wheels and prevent trip hazards as well. Where feasible, use manufactured hole-covers (examples might include “Paragon” covers, or “The Hole Solution” from Buildings and Matters LLC, or equivalent).

l. "Ladders Last" Policy: Ladders must be considered as a last means of access and egress for all work, and only be used where no other means is possible, with preference given to safer means of access. The primary tool of choice for safely accessing elevated areas is the Mobile Elevated Work Platform (Scissor, Mast or Aerial Lift). When a MEWP cannot be used due to floor load capacity or other condition making it infeasible, other safer means must be selected to include, but not be limited to: JLG LiftPod, EcoLift, "PowerSnappy", MEC-19 lifts, stairs, rolling stairs, scaffolds and "Tele-towers," etc. You must provide Turner Brownstone with proof of employee training for whichever method is chosen.

Prior to beginning work, the competent person for the company needing to perform elevated work shall evaluate all tasks that require individuals to work at elevated heights. It is the expectation that these tasks will be performed using methods other than a ladder.
If it is determined that a ladder is the only means of performing the job at elevated height, the Little Giant “Aerial Cage” Ladder should be considered first. Additionally, a Ladders Last Permit must be submitted daily prior to starting the task, along with the PTP. The signed (by Turner Brownstone) Permit must then be affixed to a Type 1A (or 1AA) ladder only. Other ladder types are not allowed. At no time will a ladder be on site without a current permit and safety checklist.

It may be possible to plan and sequence work in a way that minimizes the number of times that a worker has to leave the floor working level via ladder or other means to access other elevations, which often raises the frequency and severity of risk exposure. During Job Safety Analyses and pre-planning, give preference to methods and sequencing that reduce elevated exposure.

Use of job-built ladders is prohibited on Turner Brownstone Construction Projects. Temporary stair towers or prefabricated stairs shall be used to access different building levels. The same rule is applied to frame and system-type scaffolds. No ladders for access.

When working at a height greater than 4 feet, 100% fall protection is also required. A self-retracting lanyard (SRL) is the only option in this case. Podium ladders shall be the ladder of choice on Turner Brownstone Construction projects when a step-ladder must be used. Fall protection is required when standing on the platform.

m. The use of powder-actuated tools with cartridges containing lead or barium is prohibited on Turner Brownstone projects unless the contractor complies fully with the OSHA lead standard in construction and applicable EPA requirements.

n. All contractors must be present at the daily pre-shift 8-minute stretch and flex regimen led by Turner Brownstone Construction. All employees are to be paid for this mandatory attendance.

o. **BUILDING L.I.F.E.® SAFETY PROGRAM**

The subcontractor agrees to participate in the Turner Brownstone Continuous Safety Improvement Process known as Building L.I.F.E. – Living Injury Free Everyday®. Program Goals and Objectives:

- Implementation of a safety improvement process, focused on continuous Risk and Systems Analysis.
- Increase engagement & involvement of front line workers in our safety processes.
- Promote use of positive reinforcement & feedback as a means to influence safe behavior.

The subcontractor agrees to participate in initial training and implementation associated with this program. Training will include but not be limited to management and frontline supervisory staff. This will typically happen at the Preconstruction Meeting, but will also happen when new supervisory staff is assigned.
Hazard Analysis must be completed on the Turner Brownstone “Building LIFE JHA” form and reviewed with this contractor’s work force as they are oriented on site. All subs are required to perform a periodic review of their work to ensure the adequacy of their work plans and JHAs. This review is a Turner Brownstone Lean Process called a “Rapid Improvement Event” and is typically completed by a team of 2 to 4 of this contractor’s front-line employees (non-supervisory). After the review, the team will make suggestions to this contractor’s management and Turner Brownstone Construction’s on ways to improve safety, logistics, material-handling, minimize waste, etc. which could lead to cost savings for this contractor. This contractor should make every effort to accommodate the suggestions where feasible. Each task/JHA will require a Rapid Improvement Event approximately one week after the task begins, and again at approximately 60 and 120 days only if the specific task is still being done by the contractor. The contractor should allow two to four hours for each Rapid Improvement Event.

Once a month, Turner Brownstone will select 5 workers from the entire project workforce to attend a free lunch to discuss safety. When requested, ensure your employee(s) attends during the lunchtime specified. This is typically a half-hour.

Provide one dry-erase board (no smaller than 4’x4’) with markers for each of your crews to use during morning safety huddles. Crew size should not exceed 10 people per foremen unless approved by Turner Brownstone Project Manager.

Once a month, Turner Brownstone may invite 20% of site employees to complete a five minute 10-question Safety Perception Survey (Y/N questions).

**Schedule**

1. Subcontractor and Turner Brownstone shall work together to establish the most efficient sequencing of the project, and a schedule for handling shop drawings by sequence shall be established.

2. Subcontractor shall deliver shop drawings for approval in packages that allow complete approval of a sequence in accordance with the agreed to schedule. Failure to meet the agreed schedule will jeopardize the plan review process and may lead to delays in approval. Subcontractor shall be held responsible for any delays in approval that result from missing submittal schedules and/or failure to provide submittals that can be approved.

3. See Turner Brownstone Bid Manual for the Project Schedule. Turner Brownstone’s Project Superintendent and the Subcontractors will further develop the detail schedule activities into a working schedule via Last Planner® scheduling techniques. Each Subcontractor will perform their work in accordance with the requirements of Turner Brownstone’s Schedule including work flow, which may change from time to time in order to accommodate changes in sequencing of construction, as required by Turner Brownstone. (Preparation
of shop drawings and fabrication lead times or specific milestones as deemed necessary will be included). Maintaining the milestone and durations delineated in the schedule is critical. Any deviation from the original schedule and any subsequent schedules shall not form the basis for any increase or decrease in Subcontract Price.

4. The Subcontractor recognizes that time is of the essence for this Contract and has included an assertive, expeditious approach to assure schedule compliance. The Subcontractor has included all costs required to achieve the schedule and agrees that no additional overtime or premium payments shall be made for schedule compliance. All overtime or expediting costs to maintain the schedule are included in this subcontract price. All expediting costs of other trades caused by this Subcontractor’s failure to meet and maintain the schedule will be deducted from this subcontract price.

5. Subcontractor recognises that it is imperative that the Work proceed uninterrupted and shall endeavor to prevent and shall promptly cure any work stoppage caused by any labor or jurisdictional disputes arising out of the assignment of work to be performed by the Subcontractor or its subcontractors.

6. The Subcontractor acknowledges and understands that the ability to complete the Work in the least amount of time is included in this Subcontract and Scope of Work.

7. Subcontractor shall maintain sufficient manpower, materials and equipment at the jobsite to complete this Work so that the project schedule will not be negatively affected. Subcontractor shall immediately supplement his resources, if at any point this Subcontractor does not maintain this cycle sufficient for schedule recovery.

8. If and as Subcontractor’s material becomes available and/or work fronts become available, Subcontractor agrees to provide additional crews to pursue multiple work fronts at no additional cost to Turner Brownstone in an effort to complete the Work in the least amount of time.

9. See Project Conditions, Section 4 for additional scheduling requirements.

**Work Included**

**General**

10. The Work of this Subcontract shall include all the work normally associated with a typical “Site Furnishings” scope. All work outlined below is incorporated as part of this agreement and included in the Subcontract. One contracting entity shall be responsible for ALL the Work of this Subcontract even if that requires elements of the work to be sub-subcontracted. This Subcontractor shall identify work that is being subcontracted and Turner Brownstone reserves the right to approve sub-subcontractors.

11. This Scope of Work includes the scope of work identified in the Bid Manual as "4.PROJECT CONDITIONS FOR ALL SUBCONTRACTORS" including all references to parking, drug testing, safety, owner training and extended warranties.
12. This Subcontractor shall provide all supervision, management, labor, materials, equipment, cartage, hoisting, and everything else necessary to complete this Scope of Work as defined in the bidding documents and outlined herein.

13. This Subcontractor shall include all sales and use taxes. Subcontractor is responsible for any taxes not specifically exempted elsewhere.

14. Subcontractor is responsible for all off-site insurances.

15. Include all required systems and accessories indicated by the Contract Documents. The Work description, conditions, and all attachments are intended to cover all the Work. Work includes any and all equipment, labor, materials and services not indicated herein, but which would be necessary to complete any or all of the Work in a proper, substantial and workmanlike manner, and as required to make a system function as intended, and is included in the Work without additional cost. Any intended omissions or exceptions to the requirements for this scope had been conveyed in writing with the bid submission. Therefore, adjustments to the Subcontract due to absence of details, sizes, components or any other information required for complete and fully operational systems will not be accepted.

16. Textura: Unless otherwise directed or authorized, in writing, by Turner Construction, compile all Payment Applications and all documents (including but not limited to lien waivers, sworn statements, and the like) in electronic format and submit to Turner Construction using the Textura-CPM™ payment management system. Subcontractors shall be responsible for the fees and costs owed and associated with their use of the Textura-CPM™ payment management system. Fees calculated at 0.22% (22 basis points) of the Subcontract value up to $1,704,545 and a maximum fee of $3,750 for Subcontract values above $1,704,545

17. Professional Liability Insurance: For specific scopes of work where project specifications require stamped and certified design drawings, the Professional Engineer hired by this Subcontractor shall assume professional responsibility for any design work required in this Subcontract including but not limited Structural and Life Safety design components.

   a. This Subcontractor will include PRACTICE (OFFICE) PROFESSIONAL LIABILITY INSURANCE (E&O) for protection from claims arising out of the performance of any design or engineering services performed or furnished in connection with the Work caused by any negligent act error or omission for which Provider and/or the Provider’s Architect(s) and/or Engineer(s) may become legally liable. Such professional liability insurance shall provide for coverage as follows:

      i. Limit of liability - $3,000,000 per occurrence / $3,000,000 aggregate

      ii. Deductible Amount - Not more than $50,000 (payable by the Subcontractor)

   b. Subcontractor agrees that they will maintain [or cause to be maintained] this Professional Liability coverage for the statute of limitations in effect at the state where the project is located. Notify Turner Brownstone of any changes in the policy in subsequent years and will ensure that the policy will not provide less limits or coverage than the current policy.
c. Sixty (60) days prior written notice to Turner Brownstone of cancellation of such insurance or any material change with respect thereof.

d. Such professional liability insurance shall be in a form and from a company acceptable to Turner Brownstone and policy shall be available for review by Turner Brownstone as requested.

Additional Safety
18. All personnel involved in rigging must have documentation of training. At least one qualified rigger must be designated as rigging supervisor to oversee, inspect and sign-off on each pick.

19. As part of the safety submittal package, submit a Materials Handling Plan to the Turner Brownstone Safety Manager describing how materials will be offloaded from trucks, distributed to their final installation locations. Special attention must be given to manual material handling tasks and preventing soft-tissue injuries. Use mechanical lifting aids for all material handling unless infeasible. No employee may lift more than 40lbs in any event without mechanical or other personnel assistance.

20. This Subcontractor shall provide and require the use of level 4 or 5 cut-resistant gloves by all workers. Gloves should also have gripping dots or dipped palms.

21. Powder-actuated tools shall not be used on the project unless the cartridges are free of lead and beryllium, or the contractor provides an exposure assessment completed by a certified industrial hygienist showing lead exposures to be experienced are below the OSHA action-levels and established threshold limit values.

22. All site activities that may create dust and crystalline silica exposures must be done using engineering controls/methods that control dust and crystalline silica exposure levels below OSHA and ACGIH Action Levels and Threshold Limit Values (TLV's). These might include wet methods, HEPA vacuums, shrouds, etc. For all operations not fitting OSHA Silica Table 1, provide air sampling data confirming your work method does not expose workers above the action level for crystalline silica unless respirators will be used. Our goal is to not have to use respirators at all. All heavy equipment brought on site must have enclosed cabs with filtered air.

Preconstruction
23. This Subcontractor shall participate in preconstruction planning meetings as directed by Turner Brownstone.

24. Shop drawings shall coordinate with other materials, such as, but not limited to, concrete footings and grade beams and site utilities.

25. Maintain accurate as-built drawings from the beginning and throughout the duration of the project. Submit final as-built drawings within two weeks of the completion of aggregate pier installation.
26. Include complete coordination with other subcontractors as may be required for the proper installation of this work, specifically include coordination as a minimum with the following scopes of work:
   a. Site Work
   b. Concrete
   c. Landscaping

Site Investigation
27. Bidders shall thoroughly review the soils investigation reports available to determine the conditions that may be expected whether visible or hidden. The bid shall be based on unclassified soils and unlimited responsibility for dealing with buried obstructions unless specified otherwise or the Bidder specifically lists the limits of the bid.

28. This Subcontractor shall take precautions to verify that there are no buried utilities or other obstructions in the way of drilling. This Subcontractor shall be responsible for any damages despite drilling where staked if there is any way he could have known that there was a potential conflict.

Protection of the Site
29. This Subcontractor will be responsible for any and all costs necessary for the complete repair of any damages to the existing structures or elements scheduled to remain that may result from the Work.

30. Notify Turner Brownstone immediately of any conflicts with the installation of the Work.

Site Furnishings
31. Unless otherwise directed, this Subcontractor should assume that foundations, where indicated, will be in place prior to installation of items included in this Bid Package.

32. Coordinate with the concrete subcontractor for embeds required for this work.

33. SF6 Kneeling Figures are to be purchased and installed by this subcontractor.

34. Provide coordination for the delivery of the SF6 Kneeling Figures.

35. For cranes used on site, a third-party inspection shall be required prior to use. Documentation shall be provided to Turner Brownstone not less than 48 hours prior to crane mobilization for review by appropriate safety parties.

36. Include one (1) mobilizations/demobilizations. Coordinate phasing and schedule with Turner Brownstone's Superintendent.

37. This Subcontractor shall have a dedicated quality control representative to verify and report all quality control installation procedures per the Contract Documents.
Work Excluded
1. Purchasing of Items designated as furnished by owner.
2. SF2 Sweetgrass Baskets – DELETED FROM PROJECT

Unit Pricing
The following unit prices shall apply for additions and deductions in scope. Unit Prices shall include all tax, engineering, bond fees, etc. for a complete cost of the work. Include overhead and profit in these prices. Indicate the range for which the unit is to be applied

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<thead>
<tr>
<th>Description</th>
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<th>Credit</th>
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<tbody>
<tr>
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<td>Laborer (unskilled)</td>
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<td>Operator</td>
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<td>Overtime</td>
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Alternates
It is understood and agreed that the following additions or deductions may be made to the Contract Price. No commitment for material or other costs related to these alternate prices can be made without Turner Brownstone’s written authorization. Alternate prices include overhead, profit, insurance, tax, engineering, small tools, safety, bond fees, and any other miscellaneous costs for a complete cost of work.

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<tr>
<th>Description</th>
<th>Cost</th>
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### Pricing Summary

On the Bid Form under Base Bid, this Subcontractor shall split the total sum bid for this Bid Package into the following breakouts for accounting purposes only: [Distribute all general costs, overhead, and profit, proportionally then provide quantity and material cost information – install value is total less material value].

<table>
<thead>
<tr>
<th>Description</th>
<th>Total Cost</th>
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<tbody>
<tr>
<td>QCP Kneeling Figure Manufacturing – (1) Mold at $6,300/ea</td>
<td>$6,300.00</td>
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<tr>
<td>QCP Kneeling Figure Manufacturing – (5) Figures at $1,801/ea</td>
<td>$9,005.00</td>
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<tr>
<td>QCP Kneeling Figure Manufacturing – (5) Mounting Accessories at $450/ea</td>
<td>$2,250.00</td>
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<tr>
<td>Installation Equipment – (1) Forklift at $1,071.00/wk</td>
<td>$2,142.00</td>
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<td>Installation Equipment – (1) Misc Tools, Equip, PPE at $450/wk</td>
<td>$450.00</td>
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<td>Labor - 3-4 Workers + Operator $4,286.00/wk</td>
<td>$8,572.00</td>
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<td><strong>Subtotal</strong></td>
<td><strong>$28,719.00</strong></td>
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<td><strong>OH&amp;P @20%</strong></td>
<td><strong>$5,744.00</strong></td>
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<tr>
<td>Freight - Allowance of $5,000.00 against actual cost</td>
<td><strong>$5,000.00</strong></td>
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<tr>
<td><strong>Total Subcontract Amount</strong></td>
<td><strong>$39,463.00</strong></td>
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</table>
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 168  
Contract: Construction  

Description of work to be performed:  
A - Customer Requested Change  
B - Code/Regulatory Agency Required Change  
C - Errors and Omissions  
D - Replacing Unsuitable Soils  
E - Soils Related Change Other  
F - Unforeseen Conditions  
G - Time Related Change  
H - Liquidated Damages  
I - Value Engineering Change  
J - Exercising Pre-Priced Option (Allowance)  
K - Accounting Error  
(Indicate Reason for Change Proposal)  

Justification:  
C - Errors and Omissions  

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup  

Proposal Cost (not to exceed):  
$32,679.00  
Owner Contingency Allow. Bal.  

Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by:  
February 24, 2022  

No  Yes  
(Circle One)  

(Circle One)  

(Circle One)  

(Circle One)  

(Circle One)  

Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costanzo, Moody Nolan  
Robert W. Harriman  

Approved:
Date Submitted: October 4, 2021

To: Edmund Most
City of Charleston

Re: International African American Muesum
Smoke Damper Power

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>To supply power to smoke dampers not shown on the contract drawings. Spec requires 24 volt smoke dampers, drawings do not show power source, circuiting, or associated information.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
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<tbody>
<tr>
<td>Owner Directive</td>
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<tr>
<td>Code / Regulatory</td>
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<tr>
<td>Unforeseen Condition</td>
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<td>Design Issue</td>
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<table>
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<tr>
<th>Pricing:</th>
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<tbody>
<tr>
<td>ROM Estimate of GR's &amp; Insurances</td>
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<tr>
<td>ROM Estimate for Entire PCO</td>
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<tr>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
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<tr>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
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<table>
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<tr>
<th>Time Impact:</th>
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<tbody>
<tr>
<td>Evaluating Potential for Time Impact</td>
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<tr>
<td>Evaluated - NO TIME IMPACT</td>
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<tr>
<td>TBD</td>
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<tr>
<td>Work Authorization is Requested By:</td>
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Submitted By: 
Contractor: TURNER BROWNSTONE
10/04/2021 $32,679 Amount Requested

Reviewed By: Program Manager: CUMMING

Authorized Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Owner: City of Charleston

Approved By: Owner: City of Charleston

Authorized Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Amount Approved
2021 $32,679
<table>
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<th>Description of Work</th>
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<td>General Requirements (GR)</td>
<td>A GENERAL</td>
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<tr>
<td>Conditions (GC)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>Condition (GC)</td>
<td>GENERAL REQUIREMENTS (GR)</td>
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<td>Conditions (GC)</td>
<td>MATERIALS/ A &amp; GENERAL</td>
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<td>TRADE DIRECTS</td>
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**Cor No:**

168

General Summary of the Estimate

International African American Museum

Turner
<table>
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<tr>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
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<tr>
<td>2</td>
<td>1</td>
<td>2.172</td>
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<tr>
<td>3</td>
<td>1</td>
<td>3.000</td>
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<tr>
<td>3.00000</td>
<td>1</td>
<td>3.000</td>
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<tr>
<td>1</td>
<td>1</td>
<td>2.172</td>
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</tbody>
</table>

**Additional Scope of Work**

To provide power to smoke dampers and transformers.

---

**Cor No.:** 168

*International African American Museum*
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
SCOPE: Power for (17) Fire / Smoke Dampers.

Inclusions:
- Flooring covering and protection-plywood and foam board.
- 120 volt / 20 amp power circuits to transformers.
- 3/4" EMT conduit and #10 awg conductors for power and 16/2c low voltage wiring.
- Low voltage cable as per Damper submittal and cable submittal.
- Core drilling through walls and between floors as required.
- Fireproofing where required.
- Connections / terminations to dampers; with approval and coordination of mechanical contractor.

Exclusions:
- 500 VA power transformer and enclosure.
- 100 VA and smaller power transformers (enclosures by Watson).
- Fire / smoke dampers or mechanical equipment.
- Connections, cabling or programming relating to BAS system or mechanical controls system(s).
- Cutting and patching.

Clarifications:
- Use existing SPARE 120 volt / 20 amp breakers in panel EAP-L3.
- Acknowledgement—we have reviewed current panel legends and current existing conditions of panel EAP-L3 and confirm that there are available breakers.
- Acknowledgement—cable size will consider run lengths when sizing cable.
- Approved change order required prior to beginning work.
- Testing of dampers in coordination with mechanical contractor.
- Price includes using scaffolding.
- Removal of ceiling tiles where required by others.
- Watson not responsible for damaged ceiling tiles.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 14 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_60 Fire / Smoke Dampers Power>.

ORIGINAL
## PROPOSED CHANGE ORDER

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
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</thead>
<tbody>
<tr>
<td>3/4&quot; CONDUIT - EMT</td>
<td>716</td>
<td>1,210.18</td>
<td>72.50</td>
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<td>3/4&quot; COUPLING COMP STL - EMT</td>
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<td>3/4&quot; FLEX - ALUMINUM</td>
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<td>#10 THHN SOLID BLACK</td>
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<td>#16/2C HI-TEMP CTRL CBL</td>
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<td>WIRE CONN RED</td>
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<td>1.89</td>
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<tr>
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<td>118.10</td>
<td>1.60</td>
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<td>4x 2 1/8&quot; SQ BOX COMB KO</td>
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<td>473.18</td>
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<tr>
<td>4&quot; SQ BLANK COVER</td>
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<td>181.97</td>
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<tr>
<td>4&quot; SQ BLANK COVER 1/2&quot; KO</td>
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<td>30.73</td>
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<tr>
<td>10x 10x 4&quot; BOX HNGD CVR - NEMA</td>
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<td>#8 TO #10x 7/8 PLAS ANCHOR (3/16)</td>
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<td>#10x 1 1/4&quot; P/H SELF-TAP SCREW</td>
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<td>2.28</td>
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<td>#6x 1/2 WAFFER HEAD SELF-TAP STUD SCREW - 12G</td>
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<td>PLYWOOD AND FOAMBOARD</td>
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<td>675.00</td>
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<td>20A 1P BREAKER BOLT-ON</td>
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<td>POWER TRANSFORMERS</td>
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<td>1&quot; DIAM CORE 4&quot; THICK FLOOR</td>
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<td>1.00</td>
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<td>FIREPROOFING</td>
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<td>180.00</td>
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<td>TESTING</td>
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<td><strong>Totals</strong></td>
<td><strong>3,166</strong></td>
<td><strong>5,537.26</strong></td>
<td><strong>268.55</strong></td>
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### Summary

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<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
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</thead>
<tbody>
<tr>
<td>General Materials</td>
<td>(@ 9.00 %)</td>
<td>5,537.26</td>
<td>565.00</td>
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<td>Material Tax</td>
<td>549.20</td>
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<td><strong>Material Total</strong></td>
<td>7,851.46</td>
<td>6,651.46</td>
<td>12,084.75</td>
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<tr>
<td>JOURNEYMAN</td>
<td>(268.55 Hrs @ $45.00)</td>
<td>12,084.75</td>
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<td>FOREMAN</td>
<td>(40.28 Hrs @ $50.00)</td>
<td>2,014.00</td>
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<td>SAFETY @ 3.5%</td>
<td>(@ 9.40 Hrs @ $52.00)</td>
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<tr>
<td>PHAS</td>
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<td>VDC</td>
<td>(@210.00 @ 0.00 @ $6.50 + 0.00% @ 0.00% @ 0.00% @ 0.00%)</td>
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<tr>
<td>VEHICLES</td>
<td>(@210.00 @ 0.00 @ $6.50 + 0.00% @ 0.00% @ 0.00% @ 0.00%)</td>
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<td>CONSUMABLES</td>
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<td>Overhead</td>
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<td>Markup</td>
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<td><strong>Subtotal</strong></td>
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<td>Adjustment #1-BOND</td>
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<td><strong>Final Amount</strong></td>
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*ORIGINAL*
### CONTRACTOR CERTIFICATION

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
</tr>
<tr>
<td>Signature:</td>
</tr>
</tbody>
</table>

I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

<table>
<thead>
<tr>
<th>PCO #</th>
<th>60</th>
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<tr>
<td>Final Amount:</td>
<td>$36,985.34</td>
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<td>Signature:</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Change Order #:</th>
</tr>
</thead>
</table>

I hereby accept this quotation and authorize the contractor to complete the above described work.
## Smoke Damper PD and Drawings

**SPEC SECTION:** 23 33 00 - Air Duct Accessories  
**CREATED BY:**  

**STATUS:** Open  
**DATE CREATED:** 09/23/2021  

**ISSUE DATE:** 09/23/2021  
**REVISION:** 0  

**RESPONSIBLE CONTRACTOR:** Watson Electrical Construction Co. LLC  
**RECEIVED FROM:** Dale Winovich  

**RECEIVED DATE:**  
**SUBMIT BY:**  

**FINAL DUE DATE:** 10/07/2021  
**LOCATION:**  

**TYPE:** Product Data  
**COST CODE:**  

**APPROVERS:** Bri'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)  

**BALL IN COURT:**  
Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)  

**DISTRIBUTION:**  
Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan)  

**DESCRIPTION:**

**ATTACHMENTS:**

### SUBMITTAL WORKFLOW

<table>
<thead>
<tr>
<th>#</th>
<th>NAME</th>
<th>SUBMITTER/APPROVER</th>
<th>SENT DATE</th>
<th>DUE DATE</th>
<th>RETURNED DATE</th>
<th>RESPONSE</th>
<th>ATTACHMENTS</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>1</td>
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<td>10/7/2021</td>
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<td>2</td>
<td>Dale Winovich</td>
<td>Submitter</td>
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<td>10/7/2021</td>
<td>9/23/2021</td>
<td>Submitted</td>
<td>Submitted</td>
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</table>
Mechanical comments:
1. Note this is a revision to the 23 33 00-1.0 Submittal reviewed by Arup in 2019.
2. There are 17 total dampers shown in the revised FSD submittal on pages 13-18 and all listed as 120V.
3. Beginning of submittal shows provision for 120VAC to 24Vac transformers. Contractor to correct.
4. Install per details 1 and 2 on sheet M-807.
5. Contractor to coordinate installation of all FSDs with Fire Alarm contractor.
6. Contractor to confirm final dimensions and locations.

Electrical comments:
1. Contractor to confirm that spares are available in EAP-L3. Panel schedule shown within submittal does not include latest bulletins.
2. All work shall be completed without the addition of any new access panels.
3. Coordinate conductor size with length of each run. Upsize conductors as required to avoid voltage from drop on long low voltage runs.
# Smoke Damper PD and Drawings

**SPEC SECTION:** 23 33 00 - Air Duct Accessories  
**CREATED BY:**  
**STATUS:** Open  
**DATE CREATED:** 09/23/2021  
**ISSUE DATE:** 09/23/2021  
**REVISION:** 0  
**RESPONSIBLE CONTRACTOR:** Watson Electrical Construction Co. LLC  
**RECEIVED FROM:** Dale Winovich  
**RECEIVED DATE:** //  
**SUBMIT BY:** //  
**FINAL DUE DATE:** 10/07/2021  
**LOCATION:**  
**TYPE:** Product Data  
**COST CODE:**  
**APPROVERS:** Bri'Shae Anderson (Turner Construction (CAR)), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan)  
**BALL IN COURT:**  
Bri'Shae Anderson (Turner Construction (CAR))  
**DISTRIBUTION:**  
Bernard Costantino (Moody Nolan), Julie Cook, AIA (Moody Nolan)  
**DESCRIPTION:**  
**ATTACHMENTS:**  

## SUBMITTAL WORKFLOW

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<th>COMMENTS</th>
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</thead>
<tbody>
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<td>Renee Beckett</td>
<td>Submitter</td>
<td>10/7/2021</td>
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<td>Dale Winovich</td>
<td>Submitter</td>
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<td>4</td>
<td>Julie Cook, AIA</td>
<td>Approver</td>
<td>10/7/2021</td>
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TCCo All/Car

Page 1 of 2

Printed On: 09/23/2021 02:51 PM
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<tr>
<th>#</th>
<th>NAME</th>
<th>SUBMITTER/ APPROVER</th>
<th>SENT DATE</th>
<th>DUE DATE</th>
<th>RETURNED DATE</th>
<th>RESPONSE</th>
<th>ATTACHMENTS</th>
<th>COMMENTS</th>
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<td>Bernard Costantino</td>
<td>Approver</td>
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</table>
Date: September 23, 2021

FIRE / SMOKE DAMPER POWER

CUTSHEETS

International African American Museum Controls

Transmitted To:

International African American
14 Wharfside Street
Charleston,
SC 29401

Submitted By:

Joe Curry
Project Owner

JCI Contract: 0N94-0069

Johnson Controls, Inc.
4415 Sea Ray Drive
Charleston,
SC 29405
Tel: 843-745-6748
Fax: 843-744-5553

QTY 1: PSH500
QTY 3: PSH100
QTY 1: Y65T42-0
**Specifications**

<table>
<thead>
<tr>
<th>Component</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transformer</td>
<td>One (1) 500 VA</td>
</tr>
<tr>
<td>Over Current Protection</td>
<td>Circuit Breaker</td>
</tr>
<tr>
<td>Primary</td>
<td>Frequency: 50/60 Hz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12.125&quot; x 12.125&quot; x 6.000&quot; (PSH500A) 11.330&quot; x 11.400&quot; x 5.000&quot; (PSMN500A)</td>
</tr>
<tr>
<td>Approvals</td>
<td>Class 2 (UL Approved UL5085-3), UL916, UL508, C-UL, CE, RoHS</td>
</tr>
<tr>
<td>Sub-Panel</td>
<td>Plenum-Rated Polyimide Sub-Panel (PSMN500A)</td>
</tr>
<tr>
<td>Housing</td>
<td>NEMA1 Metal Enclosure (PSH500A)</td>
</tr>
<tr>
<td>Weight</td>
<td>30.16 lbs (PSH500A) 20.60 lbs (PSMN500A)</td>
</tr>
<tr>
<td>5 Secondary</td>
<td>24 Vac, with LED Indicators</td>
</tr>
<tr>
<td>24 Vac ON/OFF</td>
<td>On/Off Switch &amp; Breaker</td>
</tr>
<tr>
<td>Input</td>
<td>480/277/240/120 Vac Finger-Safe Terminals, 8-18 AWG</td>
</tr>
<tr>
<td>Output</td>
<td>5 Isolated, Floating 100 VA Class 2, 24 Vac Terminals, 12-26 AWG</td>
</tr>
<tr>
<td>Ambient Temperature Derating</td>
<td>4A up to 40°C, 3A up to 50°C, 2A up to 55°C (When All 5 Outputs Operated Simultaneously)</td>
</tr>
</tbody>
</table>

**Notes:**
- To order UL508, add "/C" to end of model number.
- Open style is mounted to sub-panel SP3303 for shipping and may be remounted to suit application.

**PSH500A**
Enclosed 500VA Power Supply with Five 100VA Class 2 Outputs, 480/277/240/120 Vac to 24 Vac

**PSMN500A**
Open Style 500VA Power Supply with Five 100VA Class 2 Outputs, 480/277/240/120 Vac to 24 Vac

**AC Power Supply**

- UL Listed Class 2
- Made in USA

**Standby Wattage:**
- 48.515 W @ 120 Vac
- 48.099 W @ 240 Vac
- 49.564 W @ 227 Vac
- 48.255 W @ 480 Vac

**Full Load Primary Current:**
- 4.66 A @ 120 Vac
- 2.41 A @ 240 Vac
- 2.06 A @ 277 Vac
- 1.17 A @ 480 Vac

**Secondary Output Voltage vs. Load:**
- 24.0 V @ 20 VA
- 23.8 V @ 50 VA
- 23.3 V @ 60 VA
- 23.0 V @ 100 VA

- With 120 Vac primary input voltage
- When all 5 outputs operated simultaneously, at room temperature

**Great for VAV Applications**
## PSH100A SERIES
Enclosed Single 100 VA Power Supplies, 120 to 24 Vac

**Model Shown:** PSH100A B10

### PSH100A SELECTION GUIDE

<table>
<thead>
<tr>
<th>Model #</th>
<th>120 Vac Outlets</th>
<th>Aux. Output Wire</th>
<th>Main Breaker On Input Power</th>
<th>Secondary Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSH100A</td>
<td>*</td>
<td></td>
<td></td>
<td>External Terminal Strip</td>
</tr>
<tr>
<td>PSH100AN</td>
<td>*</td>
<td></td>
<td></td>
<td>External Terminal Strip</td>
</tr>
<tr>
<td>PSH100ANW</td>
<td></td>
<td></td>
<td>10A Switch / Breaker</td>
<td>External Terminal Strip</td>
</tr>
<tr>
<td>PSH100ANW</td>
<td>*</td>
<td></td>
<td>10A Switch / Breaker</td>
<td>Internal Wires</td>
</tr>
<tr>
<td>PSH100AB10</td>
<td>*</td>
<td></td>
<td>10A Switch / Breaker</td>
<td>External Terminal Strip</td>
</tr>
<tr>
<td>PSH100ANB10</td>
<td>*</td>
<td></td>
<td>10A Switch / Breaker</td>
<td>External Terminal Strip</td>
</tr>
<tr>
<td>PSH100ANWB10</td>
<td>*</td>
<td></td>
<td>10A Switch / Breaker</td>
<td>Internal Wires</td>
</tr>
<tr>
<td>PSH100AWB10</td>
<td>*</td>
<td></td>
<td>10A Switch / Breaker</td>
<td>Internal Wires</td>
</tr>
</tbody>
</table>

### GENERAL SPECIFICATIONS
- Transformer: One 100VA Split-Form
- Primary: 120 Vac
- Secondary: 24 Vac, w/ LED Indicator
- 24 Vac ON/OFF: Switch / Breaker (4 Amp)
- Main Breaker ON/OFF: Switch / Breaker (10 Amp)
- Outputs: 2
  - Aux. Output Wire (1)
  - Total Combined Output 9A
- Approvals: Class II UL Listed, UL914, C-UL Canada
- Dimensions: W=5.15", H=4.25", D=3.75"
- Weight: 4.5 lbs.

### INPUT WIRES
- **"B10" Models Only**
  - PRIMARY Wires
    - Black: 120 Vac
    - White: Neutral
    - Green: Ground
- **All Other Models**
  - PRIMARY Wires
    - Black: 120 Vac
    - White: Common
    - Green: Ground

### OUTPUT WIRES
- **"B10" Models Only**
  - 120 Vac, 1 Aux. Output Wire (Blue)
- **"W" Models Only**
  - 24 Vac, 2 Wires (White/Yellow)

### NOTES
Mounting plate included with all models. See page 130 for mounting instructions.

---

**OPTIONAL FEATURES**
- 120 Vac Convenience Outlets
- 24 Vac Output: Terminals or White/White/Yellow Wires
- 10 Amp Main Breaker Switch
Description

The Y63, Y64, Y65, Y66, and Y69 Series Transformers provide 24 VAC power for loads of 40 VA through 300 VA. These transformers are designed for use on digital controllers, gas controls, ignition systems, motor actuators, staging controls, and most other 24 VAC HVAC/R control systems.

The Y6x Series meets the requirements of UL 1585, UL 506, and CSA C22.2 No. 66, providing compliance in both the United States and Canada. The Y63, Y64, Y65, and Y66 transformers are listed as Class 2 transformers (UL 1585, CSA C22.2 No. 66). The Y69 is listed as a general purpose transformer (UL 506, CSA C22.2 No. 66).

Refer to the Series Y63, Y64, Y65, Y66, and Y69 Transformers Product Bulletin (LIT-125755) for important product application information.

Features

- Split-bobbin design provides best primary/secondary isolation
- Multi-tap primaries reduce stocking requirements and offer application flexibility
- Choice of foot, plate, or conduit hub mounting provides mounting flexibility
- Choice of primary voltages meets a wide range of power requirements from 24 VAC through 480 VAC
- Color-coded lead wires provide simplicity and standardization
- cULus listed or cURus recognized meets US and Canadian requirements for Class 2 transformers (Y63, Y64, Y65, and Y66) and general purpose transformers (Y69)
- Built-in, easy-reset circuit breakers eliminate replacement time and cost caused by burn-out (Y63, Y64, Y66, and Y69)
- Open frame Y65 models serve as ideal models when end bells are not required

### Repair Information
Do not make any field repairs to transformers. For a replacement transformer, contact the nearest Johnson Controls® distributor or sales representative.

### Selection Chart

#### Table 1: Y63, Y64, Y65, Y66, and Y69 Series Transformers

<table>
<thead>
<tr>
<th>Product Code Number</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y65G13-0</td>
<td>24</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65A13-0</td>
<td>120</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65A21-0</td>
<td>120</td>
<td>24</td>
<td>End bell holes 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>4 in. x 4 in. plate</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65T31-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td><strong>Y65T42-0</strong></td>
<td>120/208/240</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Hub</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y65T54-0</td>
<td>120/208/240</td>
<td>24</td>
<td>8 in. primary leads</td>
<td>8 in. secondary leads</td>
<td>Foot-skeleton</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y65S13-0</td>
<td>208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fittings 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y65F13-0</td>
<td>277/480</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td><strong>Y65F42-0</strong></td>
<td>277/480</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Hub 4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
</tr>
</tbody>
</table>

#### 40 VA Capacity Transformers with Energy Limiting Type Overload Protection

#### 50 VA Capacity Transformers with Circuit Breakers

<table>
<thead>
<tr>
<th>Product Code Number</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y63T22-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell Hole 8 in. primary leads</td>
<td>End bell Hole 8 in. secondary leads</td>
<td>4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y63T31-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>Foot</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y63F22-0</td>
<td>277/480</td>
<td>24</td>
<td>End bell Hole 8 in. primary leads</td>
<td>End bell Hole 8 in. secondary leads</td>
<td>4 in. x 4 in. plate</td>
<td>cURus Class 2</td>
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#### 75 VA Capacity Transformers with Circuit Breakers

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<th>Secondary Voltage VAC</th>
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<th>Secondary Connection</th>
<th>Mounting</th>
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</thead>
<tbody>
<tr>
<td>Y66T12-0</td>
<td>120/208/240</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Foot</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y66T13-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td>Y66F12-0</td>
<td>277/480</td>
<td>24</td>
<td>Common External Fitting 8 in. primary leads</td>
<td>Common External Fitting 8 in. secondary leads</td>
<td>Foot</td>
<td>cURus Class 2</td>
</tr>
<tr>
<td><strong>Y66F13-0</strong></td>
<td>277/480</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>External Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cURus Class 2</td>
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</table>

#### 92 VA Capacity Transformers with Circuit Breakers

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<th>Product Code Number</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
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</thead>
<tbody>
<tr>
<td>Y64T15-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Internal Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Class 2</td>
</tr>
</tbody>
</table>
Table 1: Y63, Y64, Y65, Y66, and Y69 Series Transformers

<table>
<thead>
<tr>
<th>Product Code Number</th>
<th>Primary Voltage VAC</th>
<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y64T21-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell holes 8 in. primary leads</td>
<td>Three screw terminals (one is blind)</td>
<td>Plate</td>
<td>cULus Class 2</td>
</tr>
<tr>
<td>Y64T22-0</td>
<td>120/208/240</td>
<td>24</td>
<td>End bell Hole 8 in. primary leads</td>
<td>End bell Hole 8 in. secondary leads</td>
<td>Plate</td>
<td>cURus Class 2</td>
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300 VA Capacity Transformers with Circuit Breakers

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<th>Secondary Voltage VAC</th>
<th>Primary Connection</th>
<th>Secondary Connection</th>
<th>Mounting</th>
<th>Agency Requirement</th>
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</thead>
<tbody>
<tr>
<td>Y69T15-0</td>
<td>120/208/240</td>
<td>24</td>
<td>External Fitting 8 in. primary leads</td>
<td>Internal Fitting 30 in. secondary leads</td>
<td>Foot</td>
<td>cULus Power Transformer</td>
</tr>
</tbody>
</table>

1. 4 in. x 4 in. plate and nut packed with transformer.

Y63, Y64, Y65, Y66, Y69 Series Transformers technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power Requirements</td>
<td>24 to 480 VAC at 60 Hz</td>
</tr>
<tr>
<td>Full Load Secondary Voltage</td>
<td>23.5 VAC (Nominal)</td>
</tr>
<tr>
<td>Open Circuit Secondary Voltage (No Load)</td>
<td>27.0 VAC (Nominal)</td>
</tr>
<tr>
<td>Full Load Secondary VA Rating</td>
<td>Series</td>
</tr>
<tr>
<td></td>
<td>Y63</td>
</tr>
<tr>
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<td>Y64</td>
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<td>Y65</td>
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<tr>
<td></td>
<td>Y66</td>
</tr>
<tr>
<td></td>
<td>Y69</td>
</tr>
<tr>
<td>Volt-Amperes</td>
<td>50 VA</td>
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<tr>
<td></td>
<td>92 VA</td>
</tr>
<tr>
<td></td>
<td>40 VA</td>
</tr>
<tr>
<td></td>
<td>75 VA</td>
</tr>
<tr>
<td></td>
<td>300 VA</td>
</tr>
<tr>
<td>Finish</td>
<td>End bells, frame, feet, and mounting plates are corrosion resistant</td>
</tr>
<tr>
<td>Ambient Operating Temperature</td>
<td>-40 to 104°F (-40 to 40°C)</td>
</tr>
<tr>
<td>Ambient Storage Temperature</td>
<td>-40 to 140°F (-40 to 60°C)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>Y63</td>
</tr>
<tr>
<td></td>
<td>Y64</td>
</tr>
<tr>
<td></td>
<td>Y65</td>
</tr>
<tr>
<td></td>
<td>Y66</td>
</tr>
<tr>
<td></td>
<td>Y69</td>
</tr>
<tr>
<td></td>
<td>3.0 lb/1.4 kg</td>
</tr>
<tr>
<td></td>
<td>4.9 lb/1.8 kg</td>
</tr>
<tr>
<td></td>
<td>2.0 lb/0.9 kg</td>
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<tr>
<td></td>
<td>3.0 lb/1.4 kg</td>
</tr>
<tr>
<td></td>
<td>11.0 lb/5.0 kg</td>
</tr>
<tr>
<td>Agency Compliances</td>
<td>• UL Listed Y63, Y64, Y65, Y66; File E95575, CCN's XOKV1 (US) and XOKV2 (Canada)</td>
</tr>
<tr>
<td></td>
<td>• UL Recognized Y63, Y64, Y65, Y66; File E95575, CCN's XOKV2 (US) and XOKV3 (Canada)</td>
</tr>
<tr>
<td></td>
<td>• UL Listed Y65; File E95318, CCN's XPTQ (US) and XPTQ7 (Canada)</td>
</tr>
<tr>
<td></td>
<td>• All transformers are Class 2 except the Y69 (300 VA), which is listed as a power transformer.</td>
</tr>
</tbody>
</table>

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Single point of contact

APAC

<table>
<thead>
<tr>
<th>Johnson Controls</th>
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<tbody>
<tr>
<td>C/O CONTROLS PRODUCT MANAGEMENT</td>
</tr>
<tr>
<td>NO. 32 CHANGJiang RD. NEW DISTRICT</td>
</tr>
<tr>
<td>Wuxi Jiangsu Province 214028 China</td>
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Europe

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<tr>
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<tr>
<td>45143 ESSEN GERMANY</td>
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NA/SA

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</thead>
<tbody>
<tr>
<td>507 E MICHIGAN ST</td>
</tr>
<tr>
<td>MILWAUKEE WI 53202 USA</td>
</tr>
</tbody>
</table>

Contact information

Contact your local branch office: www.johnsoncontrols.com/locations

Contact Johnson Controls: www.johnsoncontrols.com/contact-us
FIRE SMOKE DAMPER SUBMITTAL

Project: International African American Museum
Location: Charleston, SC
Contractor: Superior Mechanical
Engineer: Arup USA, Inc.
1120 Connecticut Avenue N.W. – Suite 1110
Washington, DC 20036

Fire Smoke Dampers by Pottorff
Model FSD-125R
Combination fire smoke damper, 1-1/2 hour, UL class 1, round blade

General construction
Dimensions: Nominal (approximately 1/8" (3) undersize)
Material: Galvanized steel
Mount: Vertical
Sleeve: Type: Integral sleeve; Length (in): 16"; Gauge: 20;
          Clearance (in): 6"
Blade style: 14 gauge, round
Blade action: Single blade
Axles: 3/4" (19) diameter plated steel
Linkage: In the air-stream
Bearings: Bronze oilite, sleeve-type
Seals: Silicone blade edge seal
Fire closure device: HS-10
Fire closure temperature (°F): Primary: 165
Angles: Holding plate

Ratings
UL 555 fire resistance rating: 1-1/2 hour (vertical and horizontal)
UL 555S leakage class: 1 [8 cfm/sq.ft. @ 4 in wg.] [(0.04m³/s/ m²@1.0 kPa)]
Dynamic closure velocity (fpm): 2000
UL555S rated pressure (in wg.): 4
Application temperature (°F): 250

Listings
UL555SListing: R11767
CSFM listing: 3225-0368:112 and 3230-0368:113

Details

<table>
<thead>
<tr>
<th>Line</th>
<th>Tag</th>
<th>Dimensions (in.xxx)</th>
<th>Sleeve</th>
<th>Actuator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qty</td>
<td>D</td>
<td>L (in)</td>
<td>Gauge</td>
<td>Clr (in)</td>
</tr>
<tr>
<td>-------</td>
<td>-----</td>
<td>---------------------</td>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>8</td>
<td>16</td>
<td>20</td>
</tr>
</tbody>
</table>
**Model FSD-125R**

**Actuator and Sleeve Interference Details**

<table>
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<th>Line Item</th>
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<th>Qty</th>
<th>D (in)</th>
<th>L (in)</th>
<th>Clr (in)</th>
<th>Qty</th>
<th>Model</th>
<th>Arrangement</th>
<th>Dimensional data (in)</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>1</td>
<td>8</td>
<td>16</td>
<td>6</td>
<td>1</td>
<td>FSLF120</td>
<td>Round</td>
<td>F 2.5    T 0      S 6    P 0    Q 0</td>
</tr>
</tbody>
</table>

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*Note: Dimensions in parentheses ( ) are millimeters.*
Pressure drop testing was performed in accordance with AMCA Standard 500-D. All data has been corrected to represent air density of 0.075 lb/ft. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.

Ducted inlet and outlet
Submittal

Model FSD-151
Combination fire smoke damper, 1-1/2 hour, UL class 1, airfoil blade

General construction
- Dimensions: Nominal (approximately 1/4" (6) undersize, sleeve thickness not included)
- Material: Galvanized steel
- Frame: 5" x 1" (127x25) hat channel, 13 gauge equivalent
- Blade style: 6" x 14 gauge equivalent gauge, airfoil
- Blade action: Parallel
- Sleeve: Type: Sleeve
- Axles: 1/2" (13) diameter plated steel hex
- Linkage: Concealed in frame
- Bearings: Stainless steel oilite, sleeve-type
- Seals: Blade: Silicone; Jamb: Flexible stainless steel
- Fire closure device: HS-10
- Fire closure temperature (°F): Primary: 165

Options
- Mount: Horizontal
- Angles: Type: 1-1/2 x 1-1/2 x 16 ga (2 sides)

Ratings
- UL 555 Fire Resistance Rating: 1-1/2 hour (vertical and horizontal)
- UL 555S leakage class: 1 [8 cfmsq./ft. @ 4 in.wg.] ([0.04m³/s/m²@1.0 kPa])
- UL HNLJ.V-5: Ventilation Duct Assemblies
- Dynamic closure velocity (fpm): 2000
- UL 555S rated pressure (in.wg.): 4
- Application temperature (°F): 250

Listings
- UL 555 and 555S listing: R11767
- CSFM listing: 3225-0368:115 and 3230-0368:116

Details

<table>
<thead>
<tr>
<th>Line</th>
<th>Tag</th>
<th>Qty</th>
<th>W x H</th>
<th>D</th>
<th>Wide x High</th>
<th>L (in)</th>
<th>Gauge</th>
<th>CLR (in)</th>
<th>Qty</th>
<th>Model</th>
<th>Volt</th>
<th>Pos</th>
<th>Orien</th>
<th>Loc</th>
<th>Power consumption (per actuator)</th>
<th>Transformer size (VA) (per actuator)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>1</td>
<td>70 x 20</td>
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<td>3 x 1</td>
<td>16</td>
<td>20</td>
<td>6</td>
<td>2</td>
<td>FSNF120L</td>
<td>120V</td>
<td>PO</td>
<td>Perp</td>
<td>Ext/int</td>
<td>23VA</td>
<td>27</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td></td>
<td>66 x 22</td>
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<td>16</td>
<td>20</td>
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<td>2</td>
<td>FSNF120L</td>
<td>120V</td>
<td>PO</td>
<td>Perp</td>
<td>Ext/int</td>
<td>23VA</td>
<td>27</td>
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<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>14 x 8</td>
<td>1</td>
<td>1 x 1</td>
<td>16</td>
<td>20</td>
<td>6</td>
<td>1</td>
<td>FSTF120</td>
<td>120V</td>
<td>PO</td>
<td>Perp</td>
<td>Ext/int</td>
<td>3.5VA</td>
<td>3.5</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>1</td>
<td>14 x 10</td>
<td>1</td>
<td>1 x 1</td>
<td>16</td>
<td>20</td>
<td>6</td>
<td>1</td>
<td>FSTF120</td>
<td>120V</td>
<td>PO</td>
<td>Perp</td>
<td>Ext/int</td>
<td>3.5VA</td>
<td>3.5</td>
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<tr>
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<td>1 x 1</td>
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<td>6</td>
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<td>FSTF120</td>
<td>120V</td>
<td>PO</td>
<td>Perp</td>
<td>Ext/int</td>
<td>3.5VA</td>
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<td>FSTF120</td>
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<td>Perp</td>
<td>Ext/int</td>
<td>3.5VA</td>
<td>3.5</td>
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POTTORFF® 5101 Blue Mound Rd, Fort Worth TX 76106

Page 4 of 8
Model FSD-151

The drawings and corresponding table illustrate the position of the damper when mounted in a factory sleeve and the relative space required for a given actuator. The standard mounting locations provide enough space for installation of retaining angles and duct connections.

### Dimensional Data

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Tag</th>
<th>Qty</th>
<th>Dimensions (in,xxx)</th>
<th>Sections</th>
<th>Sleeve or Side Plate</th>
<th>Actuator</th>
<th>Dimensional data (in)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>70 x 20</td>
<td></td>
<td></td>
<td>FSNF120L</td>
<td>F 0 0 4.5 2.625 3.375</td>
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<tr>
<td></td>
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<td>2</td>
<td>66 x 22</td>
<td></td>
<td></td>
<td>FSNF120L</td>
<td>F 0 0 4.5 2.625 3.375</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>14 x 8</td>
<td></td>
<td></td>
<td>FSTF120</td>
<td>F 4 1 4.5 2.625 3.375</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td>14 x 10</td>
<td></td>
<td></td>
<td>FSTF120</td>
<td>F 1 3 4.5 2.625 3.375</td>
</tr>
<tr>
<td></td>
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Project: International African America
Submittal Date: 9/16/2021
Submitted By: ben.feldman

Model FSD-151
Combination fire smoke damper, 1-1/2 hour, UL class 1, airfoil blade

General construction
Dimensions: Nominal (approximately 1/4" (6) undersize, sleeve thickness not included)
Material: Galvanized steel
Mount: Vertical
Frame: 5" x 1" (127x25) hat channel, 13 gauge equivalent
Blade style: 6" x 14 gauge equivalent gauge, airfoil
Blade action: Parallel
Sleeve: Type: Sleeve
Axes: 1/2" (13) diameter plated steel hex
Linkage: Concealed in frame
Bearings: Stainless steel olive, sleeve-type
Seals: Blade: Silicone; Jamb: Flexible stainless steel
Fire closure device: HS-10
Fire closure temperature (°F): Primary: 165

Options
Angles: Type: 1-1/2 x 1-1/2 x 16 ga (2 sides)

Ratings
UL555 Fire Resistance Rating: 1-1/2 hour (vertical and horizontal)
UL 555S leakage class: 1 [8 cfm/sq.ft. @ 4 in.wg.] [0.04m³/s/ m²@1.0 kPa]
UL HNLJ.V-5: Ventilation Duct Assemblies
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<th>Sections</th>
<th>Sleeve or Side Plate</th>
<th>Actuator</th>
<th>Power consumption (per actuator)</th>
<th>Transformer sizing (VA) (per actuator)</th>
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<tbody>
<tr>
<td>6</td>
<td></td>
<td>2</td>
<td>12 x 6</td>
<td>Width x High</td>
<td>L (in)</td>
<td>Gauge</td>
<td>Clr (in)</td>
<td>Qty</td>
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</tbody>
</table>

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Model FSD-151
The drawings and corresponding table illustrate the position of the damper when mounted in a factory sleeve and the relative space required for a given actuator. The standard mounting locations provide enough space for installation of retaining angles and duct connections.

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<th>Actuator</th>
<th>Dimensional data (in)</th>
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<td>16</td>
<td>6</td>
</tr>
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</table>

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Note: Dimensions in parentheses ( ) are millimeters.
**Model FSD-151**

**Performance**

**Pressure drop testing**
Pressure drop testing was performed in accordance with AMCA Standard 500-D using the three configurations shown. All data has been corrected to represent air density of 0.075 lb/ft³. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.

---

**Ducted inlet and outlet**
AMCA Figure 5.3 illustrates a fully ducted damper. This configuration represents the lowest pressure drop of the three test configurations because entrance and exit losses are minimized by straight duct runs upstream and downstream of the damper.

**Ducted inlet**
AMCA Figure 5.2 illustrates a ducted damper exhausting air into an open area. This configuration has a lower pressure drop than Figure 5.5 because entrance losses are minimized by a straight duct run upstream of the damper.

**Plenum mount**
AMCA Figure 5.5 illustrates a plenum mounted damper. This configuration has the highest pressure drop because of extremely high entrance and exit losses due to the sudden changes of area in the system.

---

**Air Performance**
Pottorff certifies that the model FSD151 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings only.

---

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Application

The HS-10 fire closure device employs a one-temperature, manually resettable, electric thermostat sensor to interrupt the electrical power to actuators used on fire/smoke dampers to permit the controlled closure of the dampers. The HS-10 is designed to replace the fusible link. The HS-10 allows for damper testing per all NFPA specifications. The damper will close once power is removed from the HS-10 and will automatically reopen once power is restored.

Wiring Diagram

Control Switch Function

Normal

Hot

L1

N

24 VAC, 120 VAC or 240 VAC Fused Circuit

The damper remains open except in either of the following situations:
1. The smoke detector cuts the power to the “Power-Open” motor/actuator.
2. An elevated duct temperature causes the fire closure device to cut power to the “Power-Open” motor/operated. The damper will remain closed until the duct temperature has returned to a safe level. At that point the fire closure device can be manually reset, allowing the damper to be reopened.

Closed

The damper closes and remains closed regardless of any sensor signal.

Listings

UL 555 listing: R11767
New York City MEA listing: 295-98-E
Meets NFPA Standards: 80, 90A, 92A, 92B, 101, and 105
Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC
**Technical Data**

<table>
<thead>
<tr>
<th>FSLF24(-S)(-FC) US, FSLF120(-S)(-FC) US</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
</tr>
<tr>
<td>FSLF24(-S)(-FC) US</td>
</tr>
<tr>
<td>24 VAC ± 20%, 50/60 Hz</td>
</tr>
<tr>
<td>FSLF120(-S)(-FC) US</td>
</tr>
<tr>
<td>120 VAC ± 10%, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
</tr>
<tr>
<td>24 VAC</td>
</tr>
<tr>
<td>running 50/60 Hz, 15 VA</td>
</tr>
<tr>
<td>holding 50/60 Hz, 3.5 VA</td>
</tr>
<tr>
<td>end stop 50/60 Hz, 25 VA</td>
</tr>
<tr>
<td>120 VAC</td>
</tr>
<tr>
<td>running 50/60 Hz, 18 VA</td>
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<tr>
<td>holding 50/60 Hz, 6.5 VA</td>
</tr>
<tr>
<td>end stop 50/60 Hz, 27 VA</td>
</tr>
<tr>
<td><strong>Fusing</strong></td>
</tr>
<tr>
<td>FSLF24</td>
</tr>
<tr>
<td>1 amp slow blow</td>
</tr>
<tr>
<td>FSLF120</td>
</tr>
<tr>
<td>0.25 amp slow blow</td>
</tr>
<tr>
<td><strong>Transformer sizing</strong></td>
</tr>
<tr>
<td>25 VA per 24 VAC actuator</td>
</tr>
<tr>
<td><strong>Electrical connection</strong></td>
</tr>
<tr>
<td>FSLF24 US</td>
</tr>
<tr>
<td>3 ft, 18 ga, 2 color coded leads</td>
</tr>
<tr>
<td>FSLF120 US</td>
</tr>
<tr>
<td>3 ft, 18 ga, 3 color coded leads</td>
</tr>
<tr>
<td>FSLF...S US</td>
</tr>
<tr>
<td>3 ft, 18 ga, appliance cable</td>
</tr>
<tr>
<td><strong>Overload protection</strong></td>
</tr>
<tr>
<td>electronic throughout 0 to 95° rotation</td>
</tr>
<tr>
<td>auto-restart after temporary overload</td>
</tr>
<tr>
<td>(FSLF120 US grounded enclosure)</td>
</tr>
<tr>
<td><strong>Control</strong></td>
</tr>
<tr>
<td>microprocessor</td>
</tr>
<tr>
<td><strong>Angle of rotation</strong></td>
</tr>
<tr>
<td>95°</td>
</tr>
<tr>
<td><strong>Torque</strong></td>
</tr>
<tr>
<td>30 in-lb [3.5 Nm] minimum</td>
</tr>
<tr>
<td>from 32°F to 350°F [0°C to 177°C]</td>
</tr>
<tr>
<td><strong>Direction of rotation</strong></td>
</tr>
<tr>
<td>spring can be selected by CCW/CW mount</td>
</tr>
<tr>
<td><strong>Position indicator</strong></td>
</tr>
<tr>
<td>visual indicator, 0° to 95°</td>
</tr>
<tr>
<td><strong>Running time</strong></td>
</tr>
<tr>
<td>motor &lt; 15 sec at rated voltage and torque</td>
</tr>
<tr>
<td>32°F to +122°F [0°C to +50°C]</td>
</tr>
<tr>
<td>spring &lt;15 seconds at rated voltage and torque</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
</tr>
<tr>
<td>5 to 95% RH non-condensing</td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
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<tr>
<td>32°F to 122°F [0°C to 50°C]</td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
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<tr>
<td>-40°F to 176°F [-40°C to 80°C]</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
</tr>
<tr>
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<tr>
<td><strong>Housing material</strong></td>
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<tr>
<td>zinc coated steel</td>
</tr>
<tr>
<td><strong>Gears</strong></td>
</tr>
<tr>
<td>permanently lubricated</td>
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<tr>
<td><strong>Agency listings</strong></td>
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<tr>
<td>cULus acc. to UL60730:1A-2-14, CAN/CSA E60730:1, CSA C22.2 No.24-93</td>
</tr>
<tr>
<td><strong>Servicing</strong></td>
</tr>
<tr>
<td>maintenance free</td>
</tr>
<tr>
<td><strong>Quality standard</strong></td>
</tr>
<tr>
<td>ISO 9001</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td>FSLF24(-S) US</td>
</tr>
<tr>
<td>3.4 lbs [1.7 kg], [+ 0.3 lbs [+0.14 kg]]</td>
</tr>
<tr>
<td>FSLF120(-S) US</td>
</tr>
<tr>
<td>4.0 lbs [1.8 kg], [+ 0.3 lbs [+0.14 kg]]</td>
</tr>
<tr>
<td><strong>Auxiliary switch</strong></td>
</tr>
<tr>
<td>2 x SPST 0.5 A inductive, 3A resistive @ 120V/250VAC, minimum 1 mA @ 5 VDC, 3 A ind., 5A res @ 24VDC, UL listed, 10° and 85°. Double insulated.</td>
</tr>
</tbody>
</table>

**FSLF24(-S)(-FC) US, FSLF120(-S)(-FC) US**

**Application**

The type FSLF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555 and UL555S when tested as an assembly with the damper and will meet requirements of UBC for 15 second opening and closing. Square footage of damper operated will depend on make and model and the temperature required.

**Operation**

Mounting of the actuator to the damper axle shaft or jackscrew is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer. The actuator is mounted in its fail safe position with the damper blade(s) closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

**SAFETY NOTES**

The actuator contains no components which the user can replace or repair. 24 VAC connect via safety isolating transformer, Class 2 supply.

**1/2" Threaded Connector**

Screw a conduit fitting into the actuator’s metal bushing. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

**3/8" Flex Connector (-FC models)**

Mount the flexible conduit into the actuator’s metal bushing by means of the provided screw with a torque of 1.2 Nm. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

**Dimensions**

![Dimensions Image]

*Individual Fusing or Breakers are not required by Belimo.*

The FSLF24 draws higher peak current when driving against any type of stop. Given the technology of fuses & breakers, this requires the value of fuse or breaker to be increased to avoid nuisance opening or tripping. A 1 amp slow blow should be used for 24VAC. A 0.25 amp slow blow should be used for 120VAC.
**Typical Applications**

The typical fire and smoke damper requires from 5-15 in-lb of torque per square foot at 250°F - 350°F under dynamic load (2000 rpm velocity). The FSLF is a single section damper actuator. For the multi section dampers, use the FSNF series. This is a direct coupled actuator. If linkages are needed use the FSNF series.

Single section for one FSLF actuator

Two section for two FSLF actuators

**Typical Specification**

Smoke Control and Combination Fire and Smoke Control Damper Actuators

All smoke and combination fire and smoke dampers shall be provided with Belimo FSLF, FSNF, or FSAF actuators. No substitutions allowed. Damper and actuator shall have UL555S Listing for 250°F (350°F) and shall comply with UBC if required by local codes. Where proof of closure switches are required, blade switches, actuator auxiliary switches, or proximity switches are allowed.

**Replacement Applications**

The number one "equal or better" requirement for use as a replacement for obsolete defective motors is the UL555S listing of the Belimo actuator with the damper for the application. The local authority having jurisdiction sets the requirements. In some cases a permit and inspection may be required.

Go to [www.belimo.us/firesmoke](http://www.belimo.us/firesmoke) for a Cross Reference from old damper actuators to Belimo. Extensive retrofit installation instructions are available, along with technical training information.

**WARNING Live Electrical Components!**

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed technician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

**Wiring Diagrams**

**INSTALLATION NOTES**

- Provide overload protection and disconnect as required.
- **CAUTION Equipment Damage!**
  - Actuators may be connected in parallel.
  - Power consumption and input impedance must be observed.
  - No ground on 24 V models
  - S4 makes to S6 when the actuator is powered open.
  - For end position indication, interlock control, fan startup, etc., FSLF24-S US and FSLF120-S US incorporate two built-in auxiliary switches.
  - Double insulated

**WARNING Live Electrical Components!**

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed technician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

**Parallel Actuator Wiring**

Auxiliary switch wiring for FSLF24-S US, FSLF120-S US

---

800-543-9038 USA
866-805-7089 CANADA
203-791-8396 LATIN AMERICA/CARIBBEAN
FSNF24(-S)(-FC) US, FSNF120(-S)(-FC) US
On/Off, Spring Return, 350°F for Half Hour, 15 Seconds Cycle Time

Application
The type FSNF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555 and UL555S when tested as an assembly with the damper and will open and close in 15 seconds at 350°F. Square footage of damper operated will depend on make and model of damper and the temperature 250°F or 350°F.

Operation
Mounting of the actuator to the damper axle shaft or Jacob shaft (3/8" to 1.05") is via a cold-welded clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

-FC Models have the same electrical and mechanical characteristics except instead of a 1/2" conduit connector a 3/8" screw flex connector is supplied.

SAFETY NOTES
The actuator contains no components which the user can replace or repair.

1/2" Threaded Connector – Screw a conduit fitting into the actuator’s metal bushing. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

3/8" Flexible Connector Models (-FC Screw Connector) – Mount the flexible conduit into the actuator’s metal bushing by means of the provided screw with a torque of 0.5 ft-lb. Jacket the actuator’s input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

Dimensions (inches [mm])

<table>
<thead>
<tr>
<th>Standard:</th>
<th>1/2&quot; to 1.05&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional*</td>
<td>3/8&quot; to 3/4&quot;</td>
</tr>
</tbody>
</table>

*with K4 US clamp

| 7.54" | 191.4 |
| 1.79" | 45 |
| 0.26" | 6.5 |
| 0.25" | 6.4 |
| 0.39" | 10 |

* Individual Fusing or Breakers are not required by Belimo.

The FSNF24 draws higher peak current when driving against any type of stop. Given the technology of fuses & breakers, this requires the value of fuse or breaker to be increased to avoid nuisance opening or tripping. A 2.5 amp slow blow should be used for 24VAC. A 0.5 amp slow blow should be used for 120VAC.

Transformers
Note that while a 100VA transformer would handle 2 actuators, a 4A breaker is insufficient.

<table>
<thead>
<tr>
<th>FSNF24-S US, FSNF120-S US, FSNF24-S-FC, FSNF120-S-FC</th>
</tr>
</thead>
<tbody>
<tr>
<td>24SPST 7A resistive, 2.5A inductive at 120V or 250V. UL Approved, double-insulated, one switch at 10°, one at 85°</td>
</tr>
</tbody>
</table>

Accessories
All AF/NF linkages and parts except ZG-102 may be employed.

Agency listings
cULus listed to UL873 and CAN/CSA C22.2 No. 24
NYC Department of Buildings Materials and Equipment Acceptance Division MEA 197-07-M California State Fire Marshal Listing 321C-1593-101

800-543-9038 USA 866-805-7089 CANADA 203-791-8396 LATIN AMERICA/ CARIBBEAN
**Typical Applications**

**Multi-section Damper Assemblies**

The typical fire and smoke damper requires from 5-15 in-lb of torque per square foot at 250°F – 350°F under dynamic load (2400 fpm velocity). The FSNF will operate multi-section dampers using multiple actuators for multiple sections. Some of the methods used are shown below.

This is a direct coupled actuator. If linkages are needed use those for the FSFA series. Do not use the 2G-102 as close coupled actuators have a shortened life due to the high speed of the FSNF. Mounting at opposite ends of a jackshaft is OK.

![Diagram of damper sections](image)

**Typical Specification**

**Smoke Control and Combination Fire and Smoke Control Damper Actuators**

All smoke and combination fire and smoke dampers shall be provided with Bellmo FSTF, FSIF, FSIF, or FSFA actuators. No substitutions allowed.

Damper and actuator shall have UL555S Listing for 250°F (350°F) and shall comply with UBC if required by local codes.

Where proof of closure switches are required, blade switches, actuator auxiliary switches, or proximity switches are allowed if permitted by local codes.

**Replacement Applications**

The number one "equal or better" requirement for use as a replacement for obsolete defective motors is the UL555S listing of the Bellmo actuator with the damper for the application. The local authority having jurisdiction sets the requirements. In some cases a permit and inspection may be required.

Go to [www.bellmo.us/firesmoke](http://www.bellmo.us/firesmoke) for a Cross Reference from old damper actuators to Bellmo. Extensive retrofit installation instructions are available, along with technical training information.

**CAUTION**

Caution must be used when replacing failed motors with new Bellmo actuators. Many old motors did not have internal springs and depended on external springs on the side of the damper or wrapped around the damper shaft to close the damper. Old motor springs must be removed or disabled. Do not remove fusible links if they had only fire and no smoke functions.

In some cases, a BAE 165 or equal thermal sensor must be installed.

---

**Wiring Diagrams**

**INSTALLATION NOTES**

- Provide overload protection and disconnect as required.
- **CAUTION** Equipment Damage!
  - Actuators may be connected in parallel.
  - Power consumption and input impedance must be observed.
  - For end position indication, interlock control, fan startup, etc., FSNF24-S US and FSNF120-S US incorporate two built-in auxiliary switches:
    - 2 x SPDT, 7A (2.5A inductive)@125/250 VAC, UL Approved, 10° and 85°.
    - Switch rating is for 250°F 1/2 hour only.

**WARNING** Live Electrical Components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

![Wiring Diagram](image)

**Parallel Actuator Wiring**

![Wiring Diagram](image)

Auxiliary switch wiring for FSNF24-S US, FSNF120-S US
Torque min. 18 in-lb, for control of fire and smoke dampers

Application
The type FSTF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555 and UL555S when tested as an assembly with the damper Square footage of damper operated will depend on make and model.

Operation
Mounting of the actuator to the damper axle shaft or jackshaft is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) typically closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

SAFETY NOTE
Screw a conduit fitting into the actuator's bushing. Jacket the actuator's input and output wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>FSF120(-S) US</th>
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</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>nominal</td>
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<tr>
<td></td>
<td>120 VAC, 60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>running</td>
</tr>
<tr>
<td></td>
<td>2 W, 3.5 VA</td>
</tr>
<tr>
<td></td>
<td>holding</td>
</tr>
<tr>
<td></td>
<td>1.5 W, 2.5 VA</td>
</tr>
<tr>
<td>max. inrush current</td>
<td>21 A</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>3 ft, 18 GA appliance cable</td>
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<tr>
<td>(-S models have 2 cables)</td>
<td>1/2&quot; conduit connector</td>
</tr>
<tr>
<td>Overload protection</td>
<td>electronic throughout 0 to 95° rotation</td>
</tr>
<tr>
<td>Electrical protection</td>
<td>actuators are double insulated</td>
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<tr>
<td>Angle of rotation</td>
<td>max 95°, adjust. with mechanical stop</td>
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<tr>
<td>Torque</td>
<td>min. 18 in-lb (2 Nm)</td>
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<td>Direction of rotation</td>
<td>reversible with c/w/cw mounting</td>
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<td>Position indication</td>
<td>visual indicator, 0° to 95°</td>
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<tr>
<td></td>
<td>(0° spring return position)</td>
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<tr>
<td>Running time</td>
<td>motor</td>
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<td></td>
<td>&lt; 75 sec (0 to 18 in-lb)</td>
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<td></td>
<td>spring</td>
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<tr>
<td></td>
<td>&lt; 25 sec @32°F to 122°F (0°C to 50°C)</td>
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<tr>
<td>Humidity</td>
<td>5 to 95% RH non-condensing</td>
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<tr>
<td>Ambient temperature</td>
<td>32°F to 122°F (0°C to 50°C)</td>
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<tr>
<td>Operating temperature</td>
<td>Up to 250°F for 1/2 hour per UL555S test</td>
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<tr>
<td>Housing</td>
<td>NEMA type 2 / IP44, UL enclosure type 2</td>
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<tr>
<td>Housing material</td>
<td>UL94-SV0. UL2043 Listed for plenum use</td>
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<td>Agency listing</td>
<td>cULus acc. to UL60730-1A/2-14, CAN/CSA E60730-1-02, UL2043 smoke rated</td>
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<td>Noise level (max)</td>
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<td>&lt; 50 dB (A)</td>
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<tr>
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<td>Quality standard</td>
<td>ISO 9001</td>
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<td></td>
<td>FSTF120-S US</td>
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<tr>
<td></td>
<td>1.5 lbs (0.68 kg)</td>
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f Rated Impulse Voltage 400V Type of action 1A (1AA.8 for -S version), Control Pollution Degree 3.

FSTF120-S US

Auxiliary switch: 2 x SPST 3A (0.5A) @ 120 VAC, UL approved
One fixed at 10° and one fixed at 60°
典型规格

On/Off fire and smoke spring return damper actuators shall be direct coupled type which require no crank arm and linkage and be capable of direct mounting to a shaft up to a 1/2" diameter and center a 1/2" shaft. The actuators must be designed so that they may be used for either clockwise or counterclockwise fail-safe operation. Actuators shall be protected from overload at all angles of rotation. If required, two SPDT auxiliary switches shall be provided. Actuators shall be cULus listed and have a 5 year warranty, and be manufactured under ISO 9001 International Quality Control Standards. Actuators shall be as manufactured by Belimo.

安装说明

- **安装说明**
  - 安装时需要进行过载保护并断开连接。
  - **警告**设备损坏！
    - 动作器可以按照并联方式连接。功率消耗须被观测。
    - 两个SPST辅助开关用于位置指示。NC开关在10°时打开，NO开关在80°时关闭。
  - **应用说明**
    - 满足cULus要求，无需使用电气接地连接。

**警告**

在安装、测试、维护和排错时，如不遵守这些说明，用户应采取适当的电气安全预防措施，以防止因接触电气元件而导致的死亡或严重伤害。

---

**Wiring Diagrams**

**On/Off wiring for FSTF120 US**

**On/Off wiring for FSTF120-S US**

---

800-543-9038 USA  866-866-7089 CANADA  203-791-8396 LATIN AMERICA / CARIBBEAN
VTNC TRAY CABLE - #16AWG NONSHIELDED
TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL
TFN CONDUCTORS, PVC JACKET, 600VOLTS, UL 1277

CONSTRUCTION:

CONDUCTOR: SOFT DRAWN STRANDED BARE COPPER PER ASTM B-3.
INSULATION: POLYVINYLCHLORIDE WITH NYLON JACKET TYPE TFN PER UL 62 (GASOLINE AND OIL RESISTANT).
IDENTIFICATION: INSULATED CONDUCTORS ARE COLOR CODED PER IEC METHOD 1 TABLE E-2.
ASSEMBLY: CONDUCTORS ARE CABLED TOGETHER WITH SUITABLE TAPE SEPARATOR AS NEEDED.
OVERALL JACKET: SUNLIGHT RESISTANT, FLAME RETARDANT BLACK PVC PER UL 1277, WHICH PROTECTS AGAINST HEAT, FLAME, CHEMICALS, MOISTURE, AND MECHANICAL DAMAGE.

<table>
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<tr>
<th>Charlotte Wire Part#</th>
<th>Size AWG</th>
<th>Number of Conductors</th>
<th>Insulation Thickness (in.)</th>
<th>Nylon Thickness (in.)</th>
<th>Jacket Thickness (in.)</th>
<th>Overall Diameter (in.)</th>
<th>Approx. Net Wt. (Lbs/Mft)</th>
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<td>.080*</td>
<td>.99*</td>
<td>712</td>
</tr>
</tbody>
</table>

*2/c is flat construction and TC only. TC-ER rating applies to 3 conductors or more.

APPLICATION:
Control, Signal, or Lighting circuits rated 600Volts. May be used as sunlight resistant, directly buried, and wet or dry locations. Per NEC Articles 336 and 392, approved for installation in:
1) raceways and cable tray systems including ladders, troughs, channels, solid bottom trays, and other similar structures,
2) lighting, control, and signal circuits,
3) aerial locations where supported by a messenger wire,
4) hazardous locations per Art.501 Class 1 Division 2, and
5) Class 1 circuits as permitted in NEC Article 725.

STANDARDS:
UL Standard 1277 for Type TC Cables.
Passes UL and IEEE383 70,000BTU Flame Test.
UL Standard 62 for TFN Conductors.
NEC Articles 336 and 392 for Tray Cable uses and constructions.
TC-ER rated cables comply with crush and impact requirements of MC cables.
To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 169
Contract: Construction

Description of work to be performed: Cleanout for Floor Drain Relocation RFI 452
This change is associated with the labor and materials associated the relocation of the cleanouts for the second floor. Original design showed all cleanouts to be placed in the ceiling of the L1, however this would have required multiple access points. Due to estatics for L1 ceiling and functionality the cleanouts were moved to the L2 slab.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $9,382.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:
Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Mike Risteski, Cumming Corp.

Approved:
Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan
Robert Landrum
Date Submitted: **November 3, 2021**

To: Edmund Most  
City of Charleston  

Re: **International African American Muesum**  
**Floor Drain Move per RFI 452**

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | To change floor drain locations per RFI 452. |

**Reason:**  
- [ ] Owner Directive  
- [x] Code / Regulatory  
- [ ] Unforeseen Condition  
- [x] Design Issue

**Pricing:**  
- [ ] ROM Estimate of GR's & Insurances  
- [ ] ROM Estimate for Entire PCO  
- [ ] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates  
- [ ] Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)

**Time Impact:**  
- [x] Evaluating Potential for Time Impact  
- [ ] Evaluated - NO TIME IMPACT  
- [ ] Work has been Completed  
- [ ] Work Has Commenced &/or is Ongoing  
- [ ] TBD  
- [ ] Work Authorization is Requested By:

**Submitted By:**  
[Signature]  
Walter Lewis  
Project Engineer  
Dated  
11/03/2021  
$ 9,382  
Amount Requested

**Contractor:** **TURNER BROWNSTONE**

**Reviewed By:**  
Program Manager: **CUMMING**  
Dated / /

**Authorized Action:**  
- [ ] Authorized to Proceed While Pricing  
- [ ] Price Only  
- [ ] Do Not Proceed or Price

**Approved By:**  
Owner: **City of Charleston**  
Dated / /

$ 9,382  
Amount Approved
$9,382
$3,744.92
$3,856
$62.60
$71.84
$102.62
$2,138.00
SUBTOTAL $8,552

OVERHEAD AND PROFIT (TAKEN OF DIRECT WORK COST)

OVERHEAD AND PROFIT        2.65%
Core

PERFORMANCE AND PAYMENT BOND

BUILDERS RISK

SUBGUARD

CIP

SUBTOTAL TRADE DIRECTS $8,552

<table>
<thead>
<tr>
<th>TRADE DIRECTS</th>
<th>DESCRIPTION OF WORK</th>
</tr>
</thead>
<tbody>
<tr>
<td>$8,552.00</td>
<td>GENERAL REQUIREMENTS (G.R.) &amp; GENERAL CONDITIONS (G.C.)</td>
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COR No.: 169

General Summary of the Estimate

International African American Museum
<table>
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<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
<th>Amount</th>
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<tbody>
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**Additional Scope of Work**

**Trade Directs**

**General Requirements (G.R.) & General Conditions (G.C.)**

**Cor No:** 169

International African American Museum
Date: November 11, 2020

Attn: AJ LoDato
Walter Lewis
Turner Construction

Project Name: IAAM
Project Number: 04-19-005

CR HIPP Reference: PCO # 011
Project Reference: Floor Cleanouts

Scope:
This change order proposal provides a price to relocate floor cleanouts on from L1 ceiling to L2 slab and L2 ceiling to L3 for the above referenced project per the detail takeoff and pricing of the attached takeoff.

Total Net Add $8,552.00

Thank you for the opportunity to offer this Proposal. If there are any questions, please contact our office.

Sincerely,
Vance Bailey
Assistant Project Manager
C.R. Hipp Construction, Inc.
(843) 744-4477
C. R. HIPP CONSTRUCTION COMPANY
COST DETAIL

To: Turner Construction Company
Attn: Walter Lewis
Project: International African American Museum
Subj: Floor Cleanouts

Job No.: 04-19-005
Contract No.: 47001126016
Date: 11/10/2020
COR No.: 11

MATERIAL AND EQUIPMENT COST
A. Material $2,844.78
B. Equipment $0.00
C. Miscellaneous material 10.00% of A $284.48
D. Escalation 0.00% of A & C $0.00
E. Subtotal $3,129.26
F. Sales Tax 9.00% $281.63
G. TOTAL $3,410.89

LABOR COST
A. Labor - Plumbers 60.00 Hours at Rate $32.64 per hour. $1,958.40
B. Labor - Sheetmetal 0.00 Hours at Rate $32.64 per hour. $0.00
C. Labor - Pipefitter 0.00 Hours at Rate $32.64 per hour. $0.00
D. Labor - Welder 0.00 Hours at Rate $32.64 per hour. $0.00
B. Foreman 8.00 Hours at Rate $35.72 per hour. $285.76
C. Superintendent 4.00 Hours at Rate $50.75 per hour. $203.00
D. Project Manager 0.00 Hours at Rate $48.78 per hour. $0.00
E. CAD / BIM 0.00 Hours at Rate $48.00 per hour. $0.00
F. Subtotal $2,447.16
G. Insurance and Taxes 42.00% $1,027.81
H. Site Overhead 0.00% of field labor cost. $0.00
I. Efficiency 0.00% of field labor cost. $0.00
J. TOTAL $3,474.97

OTHER COST
A. Rental Equipment $0.00
B. Small Tool Expense 3.00% of field labor. $104.25
C. Blueprint Reproduction $0.00
D. Engineering $0.00
E. Operations on More Than One Floor 0.00% of field labor. $0.00
F. Excavation and Backfill 0 cu.yds.at $0.00 per cu.yd. $0.00
G. Clean up 5.00% of field labor. $173.75
H. Distribution of Materials 5.00% of field labor. $173.75
I. TOTAL $451.75
C. R. HIPP CONSTRUCTION COMPANY
COST DETAIL CONTINUATION

Subj.: Floor Cleanouts

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RECAP

| A. Subtotal All Cost | $7,337.60 |
| B. Warranty         | 1.00%    | $73.38    |
| C. Overhead         | 10.00%   | $733.76   |
| D. TOTAL JOB COST   |          | $8,144.74 |
| E. Profit           | 5.00%    | $407.24   |
| F. Subtotal Sell Price |      | $8,551.98 |
| G. Bond             | 0.00%    | $0.00     |
| H. Mechanical Price |          | $8,551.98 |

TOTAL PRICE

$8,552.00

This change will require a 2 day time extension to complete contract.

This change proposal covers only direct costs associated with the change order work described above. We reserve the right to assess the impact of this change at a later date and to submit these cost as they become known. It is anticipated that all work required by this change will be done on a straight time basis. Overtime work, if required, will be invoiced as an additional item.

Please advise as soon as possible if we are to proceed,
**EMAIL DUPLICATE INVOICE**

**FERGUSON ENTERPRISES LLC #34**
PO BOX 100286
ATLANTA, GA 30384-0286

---

**Deliver To:** JOB AMT: $75,000  
From: Scott Windsor  
Comments:

---

**Please Contact With Questions:**  
919-594-6028

---

Please refer to Invoice Number when making payment and remit to:  
**TOTAL DUE --->** 2784.15

---

**Sold To:**  
C R HIPP CONSTRUCTION  
PO BOX 2350  
MAIN ACCOUNT  
IAAM-AFRICAN AMERICAN MUSEUM

**Ship To:**  
CR HIPP/INTL AFR AM MUSEUM  
14 WHARFSIDE STREET  
CHRIS BRINSON 843-364-9319  
CHARLESTON, SC 29401

---

**Invoice Number** 7291549-3  
**Customer** 362880

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**Invoice Sub-Total** 2514.28  
**Freight** 39.99  
**Tax** 229.88  
**Total Amt** 2784.15

---

**TOTAL DUE --->** 2784.15

---

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [https://www.ferguson.com/content/website-info/terms-of-sale](https://www.ferguson.com/content/website-info/terms-of-sale)  
GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.  
LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.
 thanks ,

SILENCE IS ACCEPTANCE

------- Original message -------
From: D21.SouthCommercial@Ferguson.com
Date: 11/3/20 11:42 AM (GMT-05:00)
To: Chris Brinson <chris.brinson@crhippconstruction.com>, Joey Nelson <joey.nelson@crhippconstruction.com>,
   D21.SouthCommercial@Ferguson.com, Scott.Windsor@Ferguson.com, Avery.Harbour@Ferguson.com
Cc: Joshua Carter <joshua.carter@crhippconstruction.com>, Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

Chris,

They were waiting on the sani-flor so they could ship all together. I told them to go ahead and get what they have coming. So we should definitely expect the 1400's here tomorrow sometime now.

Thank you,

Nick Baird
Inside Sales | I
South Commercial Team
Ferguson Enterprises, Inc. – Carolinas District
P: (843) 460-1769  F: (843) 554-8799
E: southcommercial@ferguson.com
www.ferguson.com

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**Have a Ferguson account? Download the Ferguson app for on-the-go access to your favorite ferguson.com features. [Apple iOS devices](https://www.ferguson.com/app) or [Android devices]**

**From:** Chris Brinson <chris.brinson@crhippconstruction.com>

**Sent:** Tuesday, November 3, 2020 11:06 AM

**To:** Joey Nelson <joey.nelson@crhippconstruction.com>; Nicholas Baird <Nick.Baird@ferguson.com>; D21 South Commercial [Ferguson] <D21.SouthCommercial@Ferguson.com>; Scott Windsor <Scott.Windsor@Ferguson.com>; Avery Harbour <Avery.Harbour@Ferguson.com>

**Cc:** Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>

**Subject:** RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

How come we get these that quick and the ones I ordered on 10/28/2020 are still not here,

**From:** Joey Nelson <joey.nelson@crhippconstruction.com>

**Sent:** Tuesday, November 3, 2020 9:24 AM

**To:** Nick.Baird@ferguson.com; D21.SouthCommercial@Ferguson.com; Scott.Windsor@Ferguson.com; Avery.Harbour@Ferguson.com

**Cc:** Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>

**Subject:** RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

15605-19-005

Thank you.

V/R,
Joey Nelson
Project Manager II
Office: 843-744-4477
Mobile: 843-364-9276

![C.R. Hipp Construction, Inc. Logo]

**From:** Nick.Baird@ferguson.com <Nick.Baird@ferguson.com>

**Sent:** Tuesday, November 03, 2020 9:10 AM

**To:** Joey Nelson <joey.nelson@crhippconstruction.com>; D21.SouthCommercial@Ferguson.com; Scott.Windsor@Ferguson.com; Avery.Harbour@Ferguson.com

**Cc:** Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>

**Subject:** RE: IAAM - RFI 508 Move Cleanouts to 3rd floor

Joey,

They will show up to your shop tomorrow UPS.
Let me know a PO whenever you can! Thanks!

Thank you,

**Nick Baird**
Order Confirmation # 7304829

FERGUSON ENTERPRISES LLC #23
4711 RIVERS AVE
N CHARLESTON, SC 29405-6645

Phone : 843-747-6301
Fax : 843-554-8799

Order No...: 7304829
Order Date: 11/03/20
Writer.......: NJB
Sold To.......: C R HIPP CONSTRUCTION
               PO BOX 71147
               MAIN ACCOUNT
               IAAM-AFRICAN AMERICAN MUSEUM
               N CHARLESTON, SC 29415
Cust PO#...: RFI 508

Item | Description | Quantity | Net Price | UM | Total
-----|-------------|----------|-----------|----|------
     |             |          |           |    |      
     | TAG IAAM MUSEUM |        |           |    |      
     | ATTN: JOEY NELSON |        |           |    |      
     |             |          |           |    |      
     | ZZ14004NH 4 NH LVL TROL ADJ FLR CO W/ CI TOP | 2 | 145.255 | EA | 290.51

Subtotal: $290.51
Inbound Freight: $0.00
Tax: $26.15
Order Total: $316.66
WARRANTY PROVISIONS
The purchaser’s sole and exclusive warranty is that provided by the manufacturer, if any. Seller makes no express or implied warranties. SELLER DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL SELLER BE LIABLE FOR ANY INCIDENTAL, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE OPERATION OR USE OF THE PRODUCT. SELLER’S LIABILITY, IF ANY, SHALL BE LIMITED TO THE NET SALES PRICE RECEIVED BY SELLER. Complete Terms and Conditions are available upon request or can be viewed on the web at https://www.ferguson.com/content/website-info/terms-of-sale

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

HOW ARE WE DOING? WE WANT YOUR FEEDBACK!
Enter the following link to complete a survey about your orders:
https://survey.medallia.com/?bid=322&fc=23&on=362880

*If you do not already have an account with ferguson.com, click here to register.*
**Have a Ferguson account? Download the Ferguson app for on-the-go access to your favorite ferguson.com features. Apple iOS devices or Android devices**

From: Joey Nelson <joey.nelson@crhippconstruction.com>
Sent: Tuesday, November 3, 2020 7:38 AM
To: D21 South Commercial [Ferguson] <D21.SouthCommercial@Ferguson.com>; Scott Windsor <Scott.Windsor@Ferguson.com>; Nicholas Baird <Nick.Baird@ferguson.com>; Avery Harbour <Avery.Harbour@Ferguson.com>
Cc: Chris Brinson <chris.brinson@crhippconstruction.com>; Joshua Carter <joshua.carter@crhippconstruction.com>; Vance Bailey <vance.bailey@crhippconstruction.com>
Subject: FW: IAAM - RFI 508 Move Cleanouts to 3rd floor
Importance: High

Good Morning, We need to order the following as soon as possible....

2-4” Z1400 NH FLOOR CLEAN OUTS

V/R,
Joey Nelson
Project Manager II
Office: 843-744-4477
Mobile: 843-364-9276

From: Chris Brinson <chris.brinson@crhippconstruction.com>
Sent: Monday, November 02, 2020 3:53 PM
Per change, need this asap, thanks
2-4” Z1400 NH FLOOR CLEAN OUTS

From: Joey Nelson <joey.nelson@crhippconstruction.com>
Sent: Monday, November 2, 2020 2:09 PM
To: Chris Brinson <chris.brinson@crhippconstruction.com>; Chris Dangerfield <chris.dangerfield@crhippconstruction.com>
Cc: Tim Cox <tim.cox@crhippconstruction.com>
Subject: IAAM - RFI 508 Move Cleanouts to 3rd floor

Chris,
Per attached RFI 508 clean outs in the overhead of the lobby of 2nd floor are to be routed up to the floor of the 3rd floor. Attached drawing shows locations.

V/R,
Joey Nelson
Project Manager II
Office: 843-744-4477
Mobile: 843-364-9276
MEP - Confirmation of Cleanouts on L2 slab

TO: Bernard Costantino (Moody Nolan)
    Julie Cook, AIA (Moody Nolan)

FROM: Daron Pardine (Turner Construction (ATL))
      Charleston, South Carolina

DATE INITIATED: 10/01/2020

LOCATION:

PROJECT STAGE:

SUB JOB:

COST IMPACT:

DRAWING NUMBER:

LINKED DRAWINGS:

STATUS: Open

DUE DATE: 10/16/2020

COST CODE:

SCHEDULE IMPACT:

SPEC SECTION:

REFERENCE:

RECEIVED FROM: Daron Pardine (Turner Construction (ATL))

COPIES TO:
Sarah Aarons (ARUP), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Alex Nash (Turner Construction (CAR)), Jonathan Roberts (Cumming), Stephanie Terault (ARUP)

Question from Daron Pardine (Turner Construction (ATL)) at 04:39 PM on 10/01/2020

As discussed and reviewed through the L1 ceiling drawings, it is our understanding that the cleanouts that would require access panels in the L1 Sto ceiling are to be relocated to the L2 slab to be accessible from above and delete the requirement for access through the ceiling.

Please confirm.

Awaiting an Official Response

All Replies:
[CONFIRMED. TB TO COORDINATE CLEANOUT WITH FLOORING CONTRACTORS FOR OPTIONS FOR COVERS.]

BY

DATE

COPIES TO
Subject: (HOT) MEP - Plumbing | Cleanout Locations Shift to L3

Information Requested:
Per the attached markup, there would be 2 access panels in the lobby that are required to access cleanouts for the sanitary system.

We suggest moving these cleanouts up to L3 similar to what we did on L1/L2.

Please confirm this is acceptable.

Responses

Joel Ramos - Plumbing
Arup have no objection with the proposed location of cleanout in the 3rd floor level mechanical room. Install cleanout per requirement of the code. Coordinate all cleanout locations with Architect.

MN agrees to move to 3rd floor mechanical room.
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 171  
Contract: Construction

Description of work to be performed: Pumphouse Sidewalk

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error

Indicate Reason for Change Proposal:

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000): Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $10,466.00 Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Mike Risteski, Cumming Corp.

(Yes) (No)

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Kris Larrimer
COR #: 171

TURNER BROWNSTONE
14 Wharfside Street
Charleston, SC

Re: International African American Museum

Additional Pump House Sidewalk

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

To demo out the old and install a new sidewalk at the Front (West) elevation of the pump house tying the new sidewalks.

<table>
<thead>
<tr>
<th>Work Description:</th>
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<tbody>
<tr>
<td>To demo out the old and install a new sidewalk at the Front (West) elevation of the pump house tying the new sidewalks.</td>
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<td>Code / Regulatory</td>
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<td>ROM Estimate for Entire PCO</td>
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<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
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<td>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</td>
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<td>Work Authorization is Requested By:</td>
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Submitted By: Walter Lewis, Project Engineer

Contractor: TURNER BROWNSTONE

11/15/2021

$ 10,466

Requested Action:

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

/ / Dated

Approved By: Owner: City of Charleston

/ / $ 10,466

Amount Approved
### Estimate Summary

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Subtotal | $9,668 |

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**COR No.:** 171

*General Summary of the Estimate*

International African American Museum

*Turner*
## Direct Work Subtotal

| $9,666 |

## Trade Directs

| $0 |

### General Requirements (GR) & General Conditions (GC)

#### Description

- To Demo old sidewalk and install a new sidewalk.

| COR No.: | 171 |

---

Turner International African American Museum
October 04, 2021
International African American Museum - IAAM

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<th>UNIT PRICE</th>
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<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMO &amp; REPOUR PUMPHOUSE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIDEWALKS &amp; CURB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concrete Demo</td>
<td>60.0</td>
<td>Hr</td>
<td>$40.33</td>
<td></td>
<td>$2,419.98</td>
</tr>
<tr>
<td>Concrete 6&quot; Broom finish 3000 psi</td>
<td>425.0</td>
<td>sf</td>
<td>$12.47</td>
<td></td>
<td>$5,300.36</td>
</tr>
<tr>
<td>Concrete Curb - 6&quot;w x 18&quot;d</td>
<td>25.0</td>
<td>lf</td>
<td>$77.92</td>
<td></td>
<td>$1,948.07</td>
</tr>
</tbody>
</table>

**$9,668.41**

**BID SUMMARY**

<table>
<thead>
<tr>
<th>SERVICES</th>
<th>SALES TAX</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demo &amp; Repour Pumphouse Sidewalks &amp; Curb</td>
<td>$0.00</td>
<td>$9,668.41</td>
</tr>
</tbody>
</table>

**$0.00**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sale</td>
<td>$9,668.41</td>
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</tr>
<tr>
<td>Sales Tax</td>
<td>$0.00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$9,668.41</td>
<td></td>
</tr>
</tbody>
</table>

Client Signature: ____________________________ Date: ________________
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

**Description of work to be performed:**  
Plant Changes per City Recommendations  
This change is associated with the materials and labor for the changes of the planting as per the city recommendations.

**Justification:**  
A - Customer Requested Change

**Attachments:**  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

**Proposal Cost (not to exceed):**  
$7,794.00  
Owner Contingency Allow. Bal.

**Time Extension Requested:**  
Time Extension Recommended:

**Cost Estimate (Expected to Exceed $10,000):**  
Change Proposal Request from CMR with Detailed Backup

**Proposal Approval:**  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan

**Decision needed by:**  
February 24, 2022  
Mike Risteski, Cumming Corp.
Date Submitted: November 17, 2021
To: Edmund Most  
City of Charleston

Re: International African American Museum  
Plant Changes in Front of the Building

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>To install the 15 gallon Plants single row hedge on the West side of the building.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis  
Project Engineer  
11/17/2021  
Amount Requested: $7,794

Contractor: TURNER BROWNSTONE

Requested Action:
- Authorized to Proceed While Pricing  
- Price Only  
- Do Not Proceed or Price

Reviewed By:  
Program Manager: CUMMING  
Dated

Authorized Action:
- Authorized to Proceed While Pricing  
- Price Only  
- Do Not Proceed or Price

Approved By: Edmund Most  
Owner: City of Charleston  
Dated  
Amount Approved: $7,794
<table>
<thead>
<tr>
<th>Estimate Total</th>
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</thead>
<tbody>
<tr>
<td>$7,794</td>
</tr>
<tr>
<td>$2,114.34</td>
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<tr>
<td>$332.4</td>
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<tr>
<td>$2,072.70</td>
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<tr>
<td>$604.8</td>
</tr>
<tr>
<td>$864.0</td>
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<tr>
<td>$1,800.0</td>
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<tr>
<td>Subtotal</td>
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<tr>
<td>$7,200</td>
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**Estimate of Direct Costs**

<table>
<thead>
<tr>
<th>Trade Directs</th>
<th>$7,200.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements (G.R.) &amp; General Conditions (G.C.)</td>
<td>$0</td>
</tr>
<tr>
<td>General Requirements (G.R.) &amp; General Conditions (G.C.)</td>
<td>$0</td>
</tr>
<tr>
<td>Self Performed Labor</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Description of Work**
<table>
<thead>
<tr>
<th>COR NO:</th>
<th>173</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Additional Scope of Work</td>
</tr>
<tr>
<td>To Demo old Sidewalk and Install a new Sidewalk</td>
<td></td>
</tr>
<tr>
<td>Trade Directs</td>
<td></td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS (G.R.s) &amp; GENERAL CONDITIONS (G.C.s)</td>
<td></td>
</tr>
<tr>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td>Comment</td>
<td>Rate</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>$7.200.00</td>
</tr>
<tr>
<td></td>
<td>$7.200.00</td>
</tr>
<tr>
<td></td>
<td>$7.200.00</td>
</tr>
</tbody>
</table>
International African American Museum
Tucker Abbott
4601 Park Road, Suite 601
Charlotte, NC 28209

RE: CO Podocarpus Adds in Front

Proposal Summary:

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit Type</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Item Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>PODOCARPUS OPTION 2 SINGLE HEDGE IN FRONT Plant Installation Podocarpus - Installed</td>
<td>15 gal</td>
<td>60.00</td>
<td>$120.00</td>
<td>$7,200.00</td>
<td>$7,200.00</td>
</tr>
</tbody>
</table>

The Greenery, LLC agrees to guarantee all plants, which are covered by an automatic sprinkler system for one full year. Plants not covered by a sprinkler system are guaranteed to be healthy and properly planted at the time of installation. Guarantee shall not apply to plants the loss of which is due to abuse, vandalism, animal, fire, lightning, hail, vehicular damage, freeze or Acts of God. The Greenery, LLC does not guarantee the life of transplanted plants.

The Greenery, LLC is not responsible for damage to underground irrigation lines, pipes, wiring, invisible fencing, or lighting systems whose locations are not marked by homeowner or property manager prior to work beginning.

Prices quoted will be honored for 30 days from date of proposal.

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are satisfactory and are hereby accepted. A signed copy of this proposal will be returned as my authorization to do the work as specified.

Subtotal $7,200.00
Sales Tax (9.00%) $0.00
Total $7,200.00

Phone 843-884-0084  www.thegreeneryllc.com  Fax 843-216-0437
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 174  
Contract: Construction

Description of work to be performed: Raise of Serpentine Walls  
This change is associated with the labor and materials for the raising of the serpentine walls in front of the substations and the fountain equipment. The original wall height was not able to cover all of the additional equipment as planned per the desing drawings. To keep the desing intent the 2 middle serpentine walls had to increase in height.

Justification: F - Unforeseen Conditions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $12,992.84  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:  
Rick Holt, Cumming Corp.

Decision needed by: January 10, 2022  
(No) (Yes)

Mike Risteski, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantine, Moody Nolan

Robert L. Hallman
From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Thursday, November 4, 2021 10:28 AM
To: Mike Risteski
Cc: Robert H. Faust
Subject: RE: Price to raise walls 2 and 3

EXTERNAL EMAIL : Use caution with any response, links, or attachments.

Mike,

Per the as-buitls the walls around the substations are equal amount high as the substation so we are essentially at the correct elevation. I provided the AS-Builts yesterday.

Thanks
Walt

From: Mike Risteski <mristeski@cumming-group.com>
Sent: Tuesday, November 2, 2021 4:17 PM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>
Cc: Robert H. Faust <bfaust@cumming-group.com>
Subject: RE: Price to raise walls 2 and 3

EXTERNAL EMAIL - Please Handle Cautiously

Hi Walt,

I do not disagree that the change of the wall height at this time is a change for the mason. However, I do not believe that the cost should be covered by the owner. The substations were installed at a height different from what the contract drawings were indicating. It is greatly appreciated that you have increased the elevation of the substations so they are above the flood plain, however the same should have been done with the footing height of the serpentine walls since the entire design intent was for the walls to cover and hide the substations.

Thank You

MIKE RISTESKI, PMP
Project Manager

Cumming
Building Value Through Expertise

mristeski@cumming-group.com
The information contained in this electronic message is confidential. If the reader of this message is not the intended recipient, you are hereby notified that any use, dissemination, distribution or reproduction of this communication is strictly prohibited. If you have received this communication in error, please delete it immediately and please advise the sender.

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Monday, November 1, 2021 4:16 PM
To: Mike Risteski <mristeski@cumming-group.com>
Subject: FW: Price to raise walls 2 and 3

EXTERNAL EMAIL: Use caution with any response, links, or attachments.

Revised Price to raise the two middle walls after all walls are repaired.

From: Will Patterson <wpatterson@patconind.com>
Sent: Monday, November 1, 2021 3:04 PM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: Price to raise walls 2 and 3

EXTERNAL EMAIL - Please Handle Cautiously

Total price is $12,992.84.

Will Patterson
Project Manager
803-315-9998
803-783-4123
PatCon Industries
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 175  
Contract: Construction

Description of work to be performed: Added Trench Drain to Memorial Wall Walkway
This change is associated with the labor and materials associated with the scope of adding a trench drain to the memorial wall walkway to the furthest west point. The original design drawings show a circular drain in the middle of the path. Once the walkway was completed it was decided that a new drain was needed to the most west point of the walkway.

Justification: C - Errors and Omissions

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000): X  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $8,346.00  
Owner Contingency Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:  
Special Circumstances:  
Consequence of Rejection:  
Comments by Supervisor:  

Decision needed by: February 24, 2022  
(Circle One)

Approved:  
(Circle One)

Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantine, Moody Nolan  

NO  (YES)  
(Circle One)  

(Circle One)  
(Circle One)  
(Circle One)  
(Circle One)
Date Submitted: November 17, 2021

To: Edmund Most
City of Charleston

Re: International African American Museum

Additional Trench Drain at Woodwalk.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>To supply and install a new trench drain in the Wood Walk way to allow water to be removed from the sub slab area.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner Directive</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROM Estimate of GR's &amp; Insurances</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluating Potential for Time Impact</td>
</tr>
<tr>
<td>Work has been Completed</td>
</tr>
</tbody>
</table>

Submitted By: Walter Lewis, Project Engineer
Dated 11/17/2021

Contractor: TURNER BROWNSTONE

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING
Dated

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Approved By: Owner: City of Charleston
Dated

Amount Requested $8,346
**Estimate Total**

<table>
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<tr>
<th>Description</th>
<th>Amount</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit (Taken of direct work cost)</td>
<td>$834.63</td>
<td>3.25%</td>
</tr>
<tr>
<td>Procure</td>
<td>$3.47</td>
<td>0.450%</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>$564.44</td>
<td>0.0722</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>$922.25</td>
<td>0.12</td>
</tr>
<tr>
<td>Subguard</td>
<td>$192.75</td>
<td>0.25</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td><strong>$7,710</strong></td>
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**Trade Directs**

<table>
<thead>
<tr>
<th>Trade Directs</th>
<th>Amount</th>
<th>Description of Work</th>
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</thead>
<tbody>
<tr>
<td>$7,710.00</td>
<td>$7,710.00</td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td>Material(s) &amp; Equipment</td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td>General Requirements &amp; General Conditions (GCs)</td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td>Self-Performed Labor</td>
<td></td>
</tr>
</tbody>
</table>

**COR NO.**

175

General Summary of the Estimate

International African American Museum
Trade Directs

General Requirements (G.R. & General Conditions (G.C.))

Additional Scope of Work

To Demo old sidewalk and install a new sidewalk.

Description

Cost No.: 175

International African American Museum
To: Turner Construction Company  
Address: 4601 Park Road, Suite 601  
Charlotte, NC 28209  

Contact: Bobby Teachey  
Phone: (704) 319-4654  
Fax:  

Project Name: IAAM - COR37 - Additional Trench Drain  
Project Location: 14 Wharfside Street, Charleston, SC  

Bid Number:  
Bid Date: 11/11/2021  

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Estimated Quantity</th>
<th>Unit</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' Trench Drain Under Boardwalk</td>
<td>1.00</td>
<td>LS</td>
<td>$7,709.64</td>
</tr>
</tbody>
</table>

Total Bid Price: $7,709.64

Notes:
- See attached backup.

ACCEPTED:
The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer:  
Signature:  
Date of Acceptance:  

CONFIRMED:
Gulf Stream Construction Company Inc

Authorized Signature:  
Estimator: Ken Allen  
(843) 409-5914  kallen@gulfstreamconstruction.com
# Cost Detail With Pricing

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>UM</th>
<th>Direct Cost</th>
<th>Total Direct Cost</th>
<th>Unit Price</th>
<th>Total Price</th>
<th>Markup Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' Trench Drain Under Boardwalk</td>
<td>1.00</td>
<td>LS</td>
<td>$6,539.95</td>
<td>$6,539.95</td>
<td>$7,709.64</td>
<td>$7,709.64</td>
<td>15.00%</td>
</tr>
<tr>
<td>Demo Concrete (0.22 LS/PH, 0.50 DY)</td>
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<td>LS</td>
<td>$1,550.44</td>
<td>$1,550.44</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Foreman</td>
<td>5.00</td>
<td>HR</td>
<td>$68.82</td>
<td>$344.08</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Grade Oper II</td>
<td>5.00</td>
<td>HR</td>
<td>$40.32</td>
<td>$201.59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator II</td>
<td>5.00</td>
<td>HR</td>
<td>$33.54</td>
<td>$167.69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator Laborer II [2]</td>
<td>5.00</td>
<td>HR</td>
<td>$28.40</td>
<td>$142.02</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loader</td>
<td>5.00</td>
<td>HR</td>
<td>$75.11</td>
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<td></td>
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<tr>
<td>Mini Hoe HP</td>
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<td>$35.50</td>
<td>$177.50</td>
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<td></td>
<td></td>
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<tr>
<td>Install Trench Drain (0.22 LS/PH, 0.50 DY)</td>
<td>1.00</td>
<td>LS</td>
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<td>$2,549.79</td>
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<td></td>
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<tr>
<td>Excavator With Hammer</td>
<td>20.00</td>
<td>HR</td>
<td>$77.62</td>
<td>$1,552.40</td>
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<tr>
<td>Foreman</td>
<td>5.00</td>
<td>HR</td>
<td>$68.82</td>
<td>$344.08</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Grade Oper II</td>
<td>5.00</td>
<td>HR</td>
<td>$40.32</td>
<td>$201.59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator II</td>
<td>5.00</td>
<td>HR</td>
<td>$33.54</td>
<td>$167.69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator Laborer II [2]</td>
<td>5.00</td>
<td>HR</td>
<td>$28.40</td>
<td>$142.02</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trench Drain 3&quot; And Decorative Grate (FORTILINE)</td>
<td>6.00</td>
<td>LF</td>
<td>$149.39</td>
<td>$896.33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PVC 2&quot; Pipe</td>
<td>20.00</td>
<td>LF</td>
<td>$2.17</td>
<td>$43.40</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Trench Drain (Pour In Place)</td>
<td>1.00</td>
<td>CY</td>
<td>$1,500.00</td>
<td>$1,500.00</td>
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<td></td>
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## Indirect Items

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>UM</th>
<th>Indirect Cost</th>
<th>Total Indirect Cost</th>
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</thead>
<tbody>
<tr>
<td>Business License</td>
<td>1.00</td>
<td>LS</td>
<td>$26.40</td>
<td>$26.40</td>
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### Direct Cost Totals

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<tr>
<th>Item</th>
<th>Amount</th>
<th>Percent of Direct Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor:</td>
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<td>30.50%</td>
</tr>
<tr>
<td>Equipment Owned:</td>
<td>$2,105.45</td>
<td>32.19%</td>
</tr>
<tr>
<td>Equipment Rented:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Owned:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Purchased:</td>
<td>$939.73</td>
<td>14.37%</td>
</tr>
<tr>
<td>Subcontracted:</td>
<td>$1,500.00</td>
<td>22.94%</td>
</tr>
<tr>
<td>Trucking Owned:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Hired:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Miscellaneous:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Plug:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td><strong>Direct Cost:</strong></td>
<td><strong>$6,539.95</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Indirect Cost Totals

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>Percent of Indirect Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Equipment Owned:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Equipment Rented:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Owned:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Materials Purchased:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Subcontracted:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Owned:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Trucking Hired:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Miscellaneous:</td>
<td>$26.40</td>
<td>100.00%</td>
</tr>
<tr>
<td>Plug:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td><strong>Indirect Cost:</strong></td>
<td><strong>$26.40</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Pay Item Summary

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>Percent of Bid Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Direct Cost:</td>
<td>$6,539.95</td>
<td>84.83%</td>
</tr>
<tr>
<td>Total DC Adds/Cuts:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Total Indirect Cost:</td>
<td>$26.40</td>
<td>0.34%</td>
</tr>
<tr>
<td>Total Bond:</td>
<td>$137.69</td>
<td>1.79%</td>
</tr>
<tr>
<td><strong>Total Overall Cost:</strong></td>
<td><strong>$6,704.04</strong></td>
<td><strong>86.96%</strong></td>
</tr>
<tr>
<td>Total Overhead:</td>
<td>$0.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Total Profit:</td>
<td>$1,005.60</td>
<td>13.04%</td>
</tr>
<tr>
<td>Total Margin:</td>
<td>$1,005.60</td>
<td>13.04%</td>
</tr>
<tr>
<td><strong>Total Bid Price:</strong></td>
<td><strong>$7,709.64</strong></td>
<td></td>
</tr>
</tbody>
</table>
### Change Order Proposal Review Form

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 2/24/2022  
**Contractor:** Turner Construction Company  
**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 178.1  
**Contract:** Construction

#### Description of work to be performed:
- Elevator Emergency Power had to be connected to the generator backed up circuits, requested by elevator inspector.
- Cat Walk Gate needs to be installed on the roof walkway for access to the mechanical rooms.
- Atrium stairs railing had to change the method of attachment for the wood railing. The original method was not in code compliance.

<table>
<thead>
<tr>
<th>Additional Change Orders for Completion</th>
<th>A - Customer Requested Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>This change is associated with the labor and materials for a few change orders which were necessary for the completion of the project.</td>
<td></td>
</tr>
<tr>
<td>Elevator Emergency Power had to be connected to the generator backed up circuits, requested by elevator inspector.</td>
<td></td>
</tr>
<tr>
<td>Cat Walk Gate needs to be installed on the roof walkway for access to the mechanical rooms.</td>
<td></td>
</tr>
<tr>
<td>Atrium stairs railing had to change the method of attachment for the wood railing. The original method was not in code compliance.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevator emergency power changes</td>
<td>12,000.00</td>
</tr>
<tr>
<td>Cat walk gate</td>
<td>8,000.00</td>
</tr>
<tr>
<td>Atrium Lower Stair Rail</td>
<td>10,000.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30,000.00</strong></td>
</tr>
</tbody>
</table>

#### Justification:
- A - Customer Requested Change

##### Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)
- Cost Estimate (Expected to Exceed $10,000)
- Change Proposal Request from CMR with Detailed Backup

**Proposal Cost (not to exceed):** **$30,000.00**  
**Owner Contingency Allow. Bal.:**

**Time Extension Requested:**  
**Time Extension Recommended:**

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

---

**Decision needed by:** February 24, 2022  
**NO** (Circle One)  
**YES** (Circle One)  
**Mike Risteski, Cumming Corp.**

**Approved:**

**NO** (Circle One)  
**YES** (Circle One)  
**Rick Holl, Cumming Corp.**

**NO** (Circle One)  
**YES** (Circle One)  
**Robert Faust, Cumming Corp.**

**NO** (Circle One)  
**YES** (Circle One)  
**Edmund V. Most, City of Charleston**

**NO** (Circle One)  
**YES** (Circle One)  
**Bernard Costantino, Moody Nolan**

**NO** (Circle One)  
**YES** (Circle One)  
**Robert Lurhinen**
Date Submitted: February 15, 2022

To: Edmund Most
    City of Charleston

Re: International African American Museum

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide additional Scopes of work (per Back Sheet) as Requested by the owner.

Reason:
- Owner Directive
- Code / Regulatory
- Unforeseen Condition
- Design Issue

Pricing:
- ROM Estimate of GR's & Insurances
- ROM Estimate for Entire PCO
- Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
- Evaluating Potential for Time Impact
- Evaluated - NO TIME IMPACT
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- Work has been Completed
- Work Has commenced &/or is Ongoing

Submitted By: Contractor: TURNER BROWNSTONE
Walter Lewis Project Engineer
02/15/2022

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

$ 45,000
Amount Requested

$ 30,000.00

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

$ 15,000
Amount Approved

$ 30,000.00
### Estimate Total

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>0.00</td>
</tr>
<tr>
<td>Procure</td>
<td>0.00</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>0.0722</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>0.04</td>
</tr>
<tr>
<td>Subrogant</td>
<td>0.012</td>
</tr>
<tr>
<td>CCP</td>
<td>0.02</td>
</tr>
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</table>

Subtotal: $45,000

### Subtotal Trade Directs

<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Directs</td>
<td></td>
</tr>
<tr>
<td>Conditions (GCS)</td>
<td></td>
</tr>
<tr>
<td>Material &amp; Equipment</td>
<td></td>
</tr>
<tr>
<td>General Requirements (GFR) &amp; General Conditions (GCS)</td>
<td></td>
</tr>
<tr>
<td>Self-Performed Labor</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subtotal: $45,000

---

General Summary of the Estimate

International African American Museum

Turner

COR NO.: 178
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landscape and Hardscape Changes</td>
<td>100'000.00</td>
<td>1</td>
<td>100'000.00</td>
</tr>
<tr>
<td>Attack Tower Steel Rail</td>
<td>60'000.00</td>
<td>1</td>
<td>60'000.00</td>
</tr>
<tr>
<td>Cemex acrylic dome</td>
<td>120'000.00</td>
<td>1</td>
<td>120'000.00</td>
</tr>
</tbody>
</table>

**Additional Scope of Work**

**General Requirements (G.R.) & General Conditions (G.C.)**

---

**Turner**

International African American Museum

**COR No.:** 178
CUMMING
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Ristesti
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 181
Contract: Construction

Description of work to be performed: Drywall, Framing, Painting Scope Adds
This change is associated with the materials and labor for additional miscellaneous scope added throughout the project. Incorporated in this price are all miscellaneous changes from all ASI, Bulletins and RFI which had to be reworked due to coordination issues.

Justification: F - Unforeseen Conditions

Attachments:
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $130,475.00 Owner Contingency Allow. Bal.
Time Extension Requested:
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Benedict Costantino, Moody Nolan

(Circle One)

(Circle One)
Date Submitted: February 28, 2022

To: Edmund Most  
City of Charleston

Re: International African American Muesum  
Drywall Added Scope

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide additional Scopes of work for the Drywall Contractor per changes in the documents.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or <strong>Firm Fixed Unit Pricing</strong> for Trade Contractors - See Detailed Estimates</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: 
Contractor: **TURNER BROWNSTONE**  
02/28/2022  
$ 130,475  
Amount Requested

Reviewed By:  
Program Manager: **CUMMING**  
/ /  
Dated

Approved By:  
Owner: **City of Charleston**  
/ /  
Amount Approved

Requested Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Authorized Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price
## Estimate Total

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>$3,913.18</td>
<td>3.25%</td>
</tr>
<tr>
<td>Procure</td>
<td>$900</td>
<td>0.4500%</td>
</tr>
<tr>
<td>Post Contract</td>
<td>$1,000</td>
<td>0.0573%</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td>$1,012.96</td>
<td>0.84%</td>
</tr>
<tr>
<td>Builder Risk</td>
<td>$1,447.08</td>
<td>0.0%</td>
</tr>
<tr>
<td>Subcontract</td>
<td>$2,014.75</td>
<td>2.50%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$1,200.90</strong></td>
<td></td>
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</table>

### Trade Details

<table>
<thead>
<tr>
<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GRC) &amp; GENERAL POST-CONTRACT (GRC)</td>
</tr>
</tbody>
</table>

---

**COR No.:** 181

**General Summary of the Estimate**

International African American Museum

**Turner**
**Direct Work Subtotal:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address Purple Board</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kitchen Frame</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Move Smoke Detector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Vertical Lift for Pump</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climbing Condition Line More</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A/C 3 Changes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RV 2 Elevators and Paper Dispenser</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P-Walls: 1st 3 Change</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P-Walls: 2nd 3 Change</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P-Walls: 3rd 3 Change</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P-Walls: 4th 3 Change</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Sl 24 Framing Changes from Street to Stairs</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Scope of Work

**Trade Directs**

**General Requirements (G.R.) & General Conditions (G.C.)**

**COR No.:** 181

International African American Museum
Description of work to be performed: Kneeling Figures Contract
This change is associated with the contract for the production of the kneeling figures.
The original GMP contract had money allocated for the production of the kneeling figures once their design was completed. Unfortunately at this time the kneeling figures design is still ongoing, therefore the contract sum will be removed from the GMP and returned to the IAAM.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $39,463.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: March 1, 2022

(YES) (NO) Mike Risteski, Cumming Corp.
(Circle One)

Approved:

(YES) (NO) Rick Holt, Cumming Corp.
(Circle One)

(YES) (NO) Robert Faust, Cumming Corp.
(Circle One)

(YES) (NO) Edmund V. Most, City of Charleston
(Circle One)

(YES) (NO) Bernard Costantino, Moody Nolan
(Circle One)
Turner Construction Company
Subcontract Data Sheet

The terms and conditions of the Form 36 SC REV 7-31-20 shall govern this Subcontract with the exception of those modifications listed below:

This Agreement, 4700141339, made as of the 10th day of September in the year 2020 by and between Turner Construction Company a NY Corporation, (hereinafter called Contractor) and Hard Hat Transportation, LLC with offices located at 7171 Bryhawke Circle, Suite 300, North Charleston, SC, 29418 (hereinafter called the Subcontractor).

Description of Work

Description of Work: Kneeling Figures (hereinafter called the Work)
Project Name: International African American Museum (hereinafter called the Project)
Project Number: 190795
Project Location: Concord St and Inspection St., Charleston, SC, 29403
(hereinafter called the Premises)
Architect Name: (hereinafter called the Architect)
Owner Name: City of Charleston (hereinafter called the Owner)
General Contract Date: 08/01/2019
Additional Provisions: See attached Additional Provisions for Kneeling Figures
Page(s): scope: Annexed hereto and made a part hereof.

Price

Subcontract Amount: THIRTY-NINE THOUSAND FOUR HUNDRED SIXTY-THREE Dollars, $39,463.00 (hereinafter called the Price)
Reserve: 10.00%

Change Orders, Additions and Deductions

Allowance for Overhead on Changes 15%
Allowance for Profit on Changes Included in Overhead

Liability for Damage and Personal Injury

In addition to Turner Construction Company, The Turner Corporation, and the Owner, the Indemnified Parties throughout this Agreement shall include: International African American Museum and any of their respective officers, agents, servants, or employees, and affiliates, parents and subsidiaries.

Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Turner Construction Company, shall be in place and maintained until completion and final acceptance of the Work:

1. WORKERS’ COMPENSATION AND EMPLOYERS’ LIABILITY INSURANCE in accordance with laws of the State in which the Work is situated.

2. COMMERCIAL GENERAL LIABILITY INSURANCE
   
   $2,000,000.00 /Occurrence
   $2,000,000.00 /General Aggregate

   ___ Subcontractor Election A). The above insurance coverages shall be provided by insurance companies selected by the Subcontractor.

   or

   ___X___ Subcontractor Election B). The above insurance coverages shall be provided through a consolidated insurance program arranged by Turner Construction Company (CCIP). $7,500.00 (The "Estimated Unburdened Payroll") is warranted by Subcontractor as accurate for calculation of Insurance Premium for Subcontractor and enrolled Lower Tiers.
___ Subcontractor Election B, Sub-Part B-1. Project utilizes a consolidated insurance program (CCIP) arranged by Turner Construction Company. Subcontractor is an Excluded Prime Tier with Enrolled Lower Tier Subcontractors. $______ (The "Estimated Unburdened Payroll") is warranted by Subcontractor as accurate for calculation of Insurance Premium for enrolled Lower Tiers.

or

___ Subcontractor Election C) The above insurance coverages shall be provided through an Owner Controlled Insurance Program (OCIP).

3. COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

Combined Single Limit $1,000,000.00/accident

**Bonds**

Payment and Performance Bonds included: NO
If Payment and Performance Bonds included:
Provide performance bond in the amount of $ 0.00
Provide payment bond in the amount of $ 0.00

**Entire Agreement**

Hard Hat Transportation, LLC (SUBCONTRACTOR) ACKNOWLEDGES THAT THE ACCOMPANYING BALANCE OF TERMS AND CONDITIONS PER THE Form 36 SC REV 7-31-20 ARE COMPLEMENTARY AND INTEGRAL TO THIS SUBCONTRACT AGREEMENT.

This Agreement constitutes the entire agreement between the parties hereto. No oral representations or other agreements have been made by Turner Construction Company except as stated in the Agreement.

This Agreement may not be changed in any way except as herein provided, and no term or provision hereof may be waived by Turner Construction Company except in writing signed by its duly authorized officer or agent. Subcontractor acknowledges and represents that it completed and submitted to Turner Construction Company a prequalification questionnaire, that all statements therein were true, accurate and complete, and remain true, accurate and complete, and that Turner Construction Company has relied on truthfulness, accuracy and completeness of such statements and the contents of the attachments thereto in deciding to enter into this Agreement. The marginal descriptions of any term or provision of this Agreement are for convenience only and shall not be deemed to limit, restrict or alter the content, meaning or effect thereof.

The said parties, for themselves, their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of all of the terms and provisions herein contained.

In Witness Whereof the parties to these presents have hereunto set their hands as of the day and year first above written.

**Hard Hat Transportation, LLC**

By: [Signature]
Official title: [Title]

**Turner Construction Company**

By: [Signature]
Official title: President

Tucker Abbott, Procurement Manager

Subcontractor’s Federal Employers Identification Number (FEIN) 32-0410968
Subcontractor’s State Unemployment Ins. No.
Subcontractor’s License No.
(Insert License No., if any, for State or locality in which the Work is to be performed)
Subcontractor’s State Sales Tax Registration No.
(Insert State and Register No. for State in which the Work is to be performed)
This Agreement, made as of the SDS day of SDS in the year SDS by and between CONTRACTOR and SDS (See Subcontract Data Sheet for this Item and all other Items marked SDS) (hereinafter called the Subcontractor),

Witnesseth, that the Subcontractor and Contractor agree as follows:

**Description of Work**

ARTICLE I. The Subcontractor shall perform and furnish all the work, labor, services, materials, plant, equipment, tools, scaffolds, appliances and other things necessary for SDS (Hereinafter called the Work) for and at the SDS (Hereinafter called the Project), located on premises at SDS (Hereinafter called the Premises), as shown and described in and in strict accordance with the Plans, Specifications, General Conditions, Special Conditions and Addenda thereto prepared by SDS (Hereinafter called the Architect) and with the terms and provisions of the General Contract (hereinafter called the General Contract) between Contractor and SDS (Hereinafter called the Owner) dated SDS and in strict accordance with the Additional Provisions, page(s) SDS annexed hereto and made a part hereof.

**Plans & Specifications**

ARTICLE II. The Plans, Specifications, General Conditions, Special Conditions, Addenda and General Contract hereinafore mentioned, are available for examination by the Subcontractor at all reasonable times at the office of Contractor; all of the aforesaid, including this Agreement, being hereinafter sometimes referred to as the Contract Documents. The Subcontractor represents and agrees that it has carefully examined and understands this Agreement and the other Contract Documents, has investigated the nature, locality and site of the Work and the conditions and difficulties under which it is to be performed and that it enters into this Agreement on the basis of its own examination, investigation and evaluation of all such matters and not in reliance upon any opinions or representations of Contractor, or of the Owner, or of any of their respective officers, agents, servants, or employees.

With respect to the Work to be performed and furnished by the Subcontractor hereunder, the Subcontractor agrees to be bound to Contractor by each and all of the terms and provisions of the General Contract and the other Contract Documents, and to assume toward Contractor all of the duties, obligations and responsibilities that Contractor by those Contract Documents assumes toward the Owner, and the Subcontractor agrees further that Contractor shall have the same rights and remedies as against the Subcontractor as the Owner under the terms and provisions of the General Contract and the other Contract Documents has against Contractor with the same force and effect as though every such duty, obligation, responsibility, right or remedy were set forth herein in full. The terms and provisions of this Agreement with respect to the Work to be performed and furnished by the Subcontractor hereunder are intended to be and shall be in addition to and not in substitution for any of the terms and provisions of the General Contract and the other Contract Documents.

This Subcontract Agreement, the provisions of the General Contract and the other Contract Documents are intended to supplement and complement each other and shall, where possible, be thus interpreted. If, however, any provision of this Subcontract Agreement irreconcilably conflicts with a provision of the General Contract and the other Contract Documents, the provision imposing the greater duty or obligation on the Subcontractor shall govern.

Contractor hereby advises, and the Subcontractor hereby acknowledges, that Contractor in administering this subcontract will be utilizing an information systems infrastructure to process, deliver, and share and/or, at times, to apply electronic signatures to execute certain project documentation through electronic means. As part of the implementation of this infrastructure, the Subcontractor will be given individual, secure log on codes to access the Contractor systems presenting this electronic information. The Subcontractor hereby agrees that such electronic access and the ability of the subcontractor to print out such electronic documents will be in lieu of requiring the delivery of the contents of such electronic documents on printed or paper based media directly to Subcontractor by Contractor or through means of outside third-party services. Delivery of such electronic documents to Subcontractor will be deemed to have occurred when access to the document is made available to Subcontractor in the infrastructure.

At times, Contractor may, through this electronic infrastructure system, initiate Subcontract Change Order documents that will require that the Subcontractor review and approve or reject each such document applying its electronic signature to the approved document on the Contractor software and thereafter, Contractor will apply the electronic signature of its authorized personnel to execute the approved document and electronically deliver the fully executed document to the Subcontractor. The Subcontractor agrees and acknowledges that granting its on-line approval and electronically executing a Subcontract Change Order also affixes the Subcontractor's electronic signature to such document and in so doing it is agreeing that each such document, when electronically countersigned by Contractor, are valid and authentic and enforceable obligations of both parties and to honor and be bound by such documents as if they had been prepared on hard copy and contained the manually applied autograph signatures of the Subcontractor's and Contractor's authorized personnel. Subcontractor hereby agrees to establish, continuously use and maintain a robust and effective Security System/ID and Passwords to protect its identity when addressing and/or signing any electronic contract related documentation issued or exchanged pursuant to this Article.

Optionally, Contractor may use paper documents, where the Subcontractor reviews the proposed paper document and, if it approves, it manually affixes its autograph signature to the paper document and physically returns the signed paper document to Contractor who completes the execution by applying either its autograph or electronic signature to the Subcontract Change Order and a copy of the executed Subcontract Change Order showing the presence of both signatures is physically delivered to the Subcontractor and such Subcontract Change Order shall likewise be deemed by both parties to be valid and authentic and enforceable obligations of both parties.

Contractor may from time to time issue policies or directives applicable to electronic communications, electronic infrastructure and electronic data and Subcontractor shall comply with such policies and directives whether issued as part of this Subcontract or hereafter, and the cost and expense of such compliance shall be borne by the Subcontractor.

**Time of Performance & Completion**

ARTICLE III. The Subcontractor shall commence the Work when notified to do so by Contractor and shall diligently and continuously prosecute and complete the Work and coordinate the Work with the other work being performed on the Project, in accordance with those project schedules as may be issued from time to time during the performance of the Work and any other scheduling requirements listed in this Agreement, so as not to delay, impede, obstruct, hinder or interfere with the commencement, progress or completion of the whole or any part of the Work or other work on the Project, and in such a manner as necessary or requested by Contractor from time to time to ensure that Contractor satisfies its obligations in a timely manner under the General Contract,
The Subcontractor shall participate and cooperate in the development of schedules and other efforts to achieve timely completion of the Work providing information for the scheduling of the times and sequence of operations required for its Work to meet Contractor's overall schedule requirements, shall continuously monitor the project schedule so as to be fully familiar with the timing, phasing, and sequence of operations of the Work and of other work on the Project, and shall execute the Work in accordance with the requirements of the project schedule including any revisions thereto. Subcontractor shall abide by all requirements of the General Contract relating to the submission of schedule and other information related to the performance of Subcontractor's Work not less than 14 days prior to the time when Contractor is required to provide such materials to Owner under the General Contract, except where Contractor directs otherwise, Subcontractor shall, at no additional cost, provide updates, additional or further detailed schedules and other information as frequently and in whatever form Contractor may request, including but not limited to (1) manpower and cost loaded schedules; (2) information related to its operations as a whole, including but not limited to identifying lower tier subcontractors and suppliers and the status of payments to such subcontractors and suppliers; (3) unions and related benefit funds associated with labor used in the performance of the Work; (4) credit sources and banks providing financing or loans in connection with the performance of the Work or Subcontractor's operations as a whole and any covenants and requirements imposed upon Subcontractor in connection therewith and the status of Subcontractor's compliance with such covenants and requirements; and (5) the status of orders, fabrication and delivery of materials and arrangements for the provision of labor. The foregoing information shall include names and contact information, and Subcontractor acknowledges and agrees that Contractor may contact any persons or entities as it deems necessary to verify or obtain such information.

Subcontractor shall establish and maintain a reasonable accounting system by which records are kept that enable Contractor to readily identify all of Subcontractor's expenses, costs, payments (including to its workers, subcontractors and suppliers, unions, and benefit funds), obligations, budgets, and other financial information related to the Work or this Subcontract. Such records shall include, but not be limited to, all accounting records, written policies and procedures, subcontract files for all tiers, payment vouchers, ledgers, cancelled checks, contract amendments, change order information, insurance documents, and other similar information. Contractor shall have the right to audit, examine, and make copies of all such records (whether written, electronic or another format) as Contractor may determine, and Subcontractor shall facilitate and cooperate with Contractors efforts in this regard. Subcontractor shall impose similar obligations on its subcontractors and vendors to ensure that comparable records kept and Contractor has the right to audit, examine and copy those records.

Delays by Subcontractor

Should the progress of the Work or of the Project be delayed, disrupted, hindered, obstructed, or interfered with by any fault or neglect or act or failure to act of the Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers so as to cause any additional cost, expense, liability or damage to Contractor including legal fees and disbursements incurred by Contractor (whether incurred in defending claims arising from such delay or in seeking reimbursement and indemnity from the Subcontractor and its surety hereunder or otherwise) or to the Owner or any damages or additional costs or expenses for which Contractor or the Owner may or shall become liable, the Subcontractor and its surety shall and does hereby agree to compensate Contractor and the Owner for and indemnify them against all such costs, expenses, damages and liability.

Overtime

If the progress of the Work or of the Project be delayed by any fault or neglect or act or failure to act of the Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers, then the Subcontractor shall, in addition to all of the other obligations imposed by this Agreement upon the Subcontractor in such case, and at its own cost and expense, work such overtime as may be necessary to make up for all time lost in the completion of the Work and of the Project due to such delay. Should the Subcontractor fail to make up for the time lost by reason of such delay, Contractor shall have the right to cause other Subcontractors to work overtime and to take whatever other action it deems necessary to avoid delay in the completion of the Work and of the Project, and the cost and expense of such overtime and/or such other action shall be borne by the Subcontractor.

Consequences of delays may result in termination of this Agreement at the option of Contractor without prejudice to any rights or claims of Contractor which may arise under this Agreement or by law. Contractor shall be entitled to charge the Subcontractor with any and all losses, expenses, damages and claims of any kind or description which may arise as a result of the delay in the performance of the Work by the Subcontractor.

Price

The Price includes all Federal, State, County, Municipal and other taxes imposed by law and based upon labor, services, materials, equipment or other items acquired, performed, furnished or used for and in connection with the Work, including but not limited to sales, use and personal property taxes payable by or levied or assessed against the Owner, Contractor or the Subcontractor, Where the law requires any such taxes to be stated and charged separately, the total price of all items included in the Work plus the amount of such taxes shall not exceed the Price.

Progress Payments

On or before the last day of each month the Subcontractor shall submit to Contractor, in the form required by Contractor, a written requisition for payment showing the proportionate value of the Work installed to that date, from which shall be deducted a retention of 5% of all previous payments; all amounts and claims of Subcontractor, by Contractor or any third party, for which Subcontractor is responsible hereunder; and all charges for services, materials, equipment and other items furnished by Contractor or to chargeable to the Subcontractor; and the balance of the amount of such requisition, as approved by Contractor and the Architect and for which payment has been received by Contractor from the Owner, shall be due and paid to the Subcontractor on or about the fifteenth (15th) day of the succeeding month or in accordance with the Contract Documents. Contractor shall have the right, at its sole discretion, to issue payments to Subcontractor by way of joint checks to Subcontractor and suppliers and/or vendors of Subcontractor. And Subcontractor agrees to cooperate fully in facilitating the making of such joint payments.
Payments in General

For projects where the General Contract does not have an Owner that is a governmental body, the requirements of Sections 29-6-30 and 29-6-50 are hereby waived and in lieu of the payment periods and rates of interest contained in such sections, it is hereby agreed that the Subcontractor shall receive its payment no later than seven days after the receipt thereof by Contractor from the Owner and interest on any late payments shall only be payable out of the actual interest that Contractor receives from the Owner and the amount of interest to be paid to the Subcontractor would be calculated on a pro rata basis based upon the ratio that the Subcontractor payment bears to the total Owner payment made to Contractor.

The Subcontractor shall submit with its first requisition for payment a detailed schedule showing the breakdown of the Price into its various parts for use only as a basis of checking the Subcontractor's monthly requisitions.

Contractor reserves the right to advance the date of any payment (including the final payment) under this Agreement if, in its sole judgment, it becomes desirable to do so.

The Subcontractor agrees that, if and when requested to do so by Contractor, it shall furnish such information, evidence and substantiation as Contractor may require with respect to the nature and extent of all obligations incurred by the Subcontractor for or in connection with the Work, all payments made by the Subcontractor thereon, and the amounts remaining unpaid, to whom and the reasons therefor.

Final Payment

Final payment to the Subcontractor shall be made with funds received by Contractor from the Owner, the Construction Lender or the Owner's Agent as final payment for Work under the General Contract. In addition, final payment by Contractor to the Subcontractor shall not become due and payable until the following express conditions precedent have been met: (1) the completion and acceptance of the Work by Contractor and the Architect; (2) provision by the Subcontractor of evidence satisfactory to Contractor that there are no claims, obligations or liens outstanding or unsatisfied for labor, services, materials, equipment, taxes or other items performed, furnished, or incurred for or in connection with the Work; (3) execution and delivery by the Subcontractor, in a form satisfactory to Contractor of a general release running to and in favor of Contractor and the Owner; and (4) complete and full satisfaction of all claims, demands and disputes, and all obligations and responsibilities of Subcontractor, arising out of or related to the Subcontract, including those as between Contractor and Subcontractor as well as those between Subcontractor and any third party. Should there be any such claim, obligation or lien or unsatisfied obligation or responsibility whether before or after final payment is made, the Subcontractor shall pay, refund or deliver to Contractor (1) all monies that Contractor and/or the Owner shall pay in satisfying, discharging or defending against any such claim, obligation or lien or any action brought or judgment recovered thereon and all costs and expenses, including legal fees and disbursements, incurred in connection therewith; and (2) such amounts as Contractor or Owner shall, in their sole discretion, determine to be an amount sufficient to protect Contractor and Owner therefrom (in lieu of payment of such amounts, Subcontractor may, at Owner's and Contractor's sole discretion, deliver a bond satisfactory to Contractor and Owner). Such refund and payment shall be made within ten (10) days of request by Contractor to Subcontractor for same. The final payment shall be due within forty (40) days after all of these express conditions precedent have been met.

Liens by Others

If any claim or lien is made or filed with or against Contractor, the Owner, the Project, the Premises or the Project funds by any person claiming that the Subcontractor or any subcontractor or other person under subcontract to Subcontractor, or any person or entity employed or engaged by or through Subcontractor at any tier, has failed to make payment for any labor, services, materials, equipment, taxes or other items or obligations furnished or incurred for or in connection with the Work, or if any such claim or lien is filed or presented, or if Contractor, in good faith, believes that such a claim or lien may be filed or brought, or if at any time there shall be evidence of such nonpayment or of any claim or lien for which, if established, Contractor or the Owner might become liable and which is chargeable to the Subcontractor, or if the Subcontractor or any subcontractor or other person under subcontract to Subcontractor, or any person or entity employed or engaged by or through Subcontractor at any tier causes damage to the Work or to any other work on the Project, or if the Subcontractor fails to perform or is otherwise in default under any of the terms or provisions of this Agreement, Contractor shall have the right (A) to retain from any payment then due or thereafter to become due an amount which it deems sufficient to (1) satisfy, discharge and/or defend against any such claim or lien or any action which may be brought or judgment which may be recovered thereon, (2) make good any such nonpayment, damage, failure or default, and (3) compensate Contractor and the Owner for and indemnify and hold them harmless against any and all losses, liability, damages, costs and expenses, including legal fees and disbursements, which may be sustained or incurred by either or both of them in connection therewith; and (B) to demand that Subcontractor provide, within ten (10) days of Contractor's request therefore, proof of the satisfaction of Contractor and Owner that such non-payment, claim or lien has been fully satisfied, dismissed and discharged. Upon the failure of Subcontractor to fulfill the requirements of a demand issued by Contractor pursuant to subsection (B) above, Contractor may, in such manner as Contractor may in its sole discretion determine, secure the satisfaction, dismissal and discharge of such claim, by payment or otherwise, and Subcontractor shall within ten (10) days of demand therefore, be liable for and pay to Contractor all amounts (including legal fees and disbursements) incurred or suffered by Contractor or Owner arising out of or related thereto. Contractor shall, in addition, have the right to apply and charge against the Subcontractor so much of the amount retained as may be required for the foregoing purposes. Subcontractor further agrees to indemnify, hold harmless and defend Contractor and Owner, upon demand, for any and all such claims, liens, and the costs, expenses (including legal fees and disbursements), damages and liabilities arising out of or related thereto. Subcontractor acknowledges (1) that discharge of such liens or claims by bond imposes liability upon a surety and Contractor, and (2) that Contractor is not required to discharge such lien or claims by bond when exercising its rights hereunder. Subcontractor agrees that should there be any amounts due or which may become due to Subcontractor in connection with any other subcontracts between Contractor and Subcontractor or other obligations that Contractor may have to Subcontractor, Contractor shall be entitled to withhold payment under such other subcontract or obligations to the extent that Contractor believes that the unpaid balance of this Subcontract may not be adequate to satisfy Subcontractor’s obligations to Contractor hereunder.

Effect of Payment

No payment (final or otherwise) made under or in connection with this Agreement shall be conclusive evidence of the performance of the Work or of this Agreement, in whole or in part, and no such payment shall be construed to be an acceptance of defective, faulty or improper work or materials nor shall it release the Subcontractor from any of its obligations under this Agreement; nor shall entrance and use by the Owner constitute acceptance of the Work or any part thereof. The failure of Subcontractor to fully perform and satisfy any or all obligations set forth in this Article IV shall constitute a default, enabling Contractor to take action as described in Article XI.
Subcontractor acknowledges and agrees that to the extent that payments received by Subcontractor include amounts for Work performed by subcontractors to Subcontractor or services or materials provided to Subcontractor by suppliers, vendors, workers employed by or through Subcontractor, all such payments received by Subcontractor shall be deemed to have been received by Subcontractor as trustee to those entitled to receive payment from Subcontractor as beneficiaries of such amounts, and Subcontractor shall hold such funds separately and utilize such amounts only for the purpose of making payment to these beneficiaries. In the event that Subcontractor subsequently determines that a beneficiary is not entitled to receipt of payment, Subcontractor shall return such unpaid funds to Contractor.

**Extension of Time & Delays**

**ARTICLE V.** Should the Subcontractor be delayed, obstructed, hindered or interfered with in the commencement, prosecution or completion of the Work by any cause including but not limited to any act, omission, neglect, negligence or default of Contractor or of anyone employed by Contractor or by any other contractor or subcontractor on the Project, or by the Architect, the Owner or their contractors, agents or consultants by any of the combined action of workers or by governmental directive or order in no way chargeable to the Subcontractor, or by any extraordinary conditions arising out of war or government regulations, or by any other cause beyond the control of and not due to any fault, neglect, act or omission of the Subcontractor, its officers, agents, employees, subcontractors or suppliers, then except where the General Contract has specific requirements at variance with the foregoing, in which case the requirements of the General Contract shall govern, the Subcontractor shall be entitled to an extension of time for a period equivalent to the time lost by reason of any and all of the aforesaid causes, provided, however, that the Subcontractor shall not be entitled to any such extension of time unless the Subcontractor (1) notifies Contractor in writing of the cause or causes of such delay, obstruction, hindrance or interference within forty eight (48) hours of the commencement thereof and (2) demonstrates that it could not have anticipated or avoided such delay, obstruction, hindrance or interference and has used all available means to minimize the consequences thereof. Subcontractor acknowledges that provision of such notice is an essential condition precedent to Subcontractor's rights in connection with any such delays, obstructions, hindrances or interferences to Contractor's ability to fully identify, and expeditiously, address and avoid such cause or causes, and, accordingly, Subcontractor expressly waives all rights with respect to any such cause or causes for which notice hereunder was not provided. Notwithstanding the foregoing, if the General Contract is at variance with granting such time extension, then the provisions of the General Contract shall control.

The Subcontractor agrees that it shall not be entitled to nor claim any cost reimbursement, compensation or damages for any delay, obstruction, hindrance or interference to the Work except to the limited extent that Contractor has actually recovered corresponding cost reimbursement, compensation or damages from the Owner under the Contract Documents for such delay, obstruction, hindrance or interference, and then only to the extent of the amount, if any, which Contractor on behalf of the Subcontractor, actually received from the Owner on account of such delay, obstruction, hindrance or interference. Notwithstanding any term or provision herein to the contrary, Subcontractor expressly waives and releases all claims or rights to recover lost profit (except for profit on work actually performed), recovery of overhead (including home office overhead), and any other indirect, damages, costs or expenses in any way arising out of or related to the Agreement, including the breach thereof by Contractor, delays, charges, acceleration, loss of efficiency or productivity disruptions and interferences with the performance of the work.

It shall be an express condition precedent to any obligation on the part of Contractor to make payment of any such cost, reimbursement, compensation or damages to the Subcontractor hereunder that Contractor shall first be determined to be entitled to such compensation on behalf of Subcontractor and then such payment shall be made from Owner, and Subcontractor expressly acknowledges that Contractor is not obligated or required to pursue Subcontractor claims as against Owner if Contractor, in its sole discretion, after review of Subcontractor's claim, has deemed the claim to lack merit in whole or in part.

The Subcontractor agrees that it shall contribute a fair and proportionate share of the costs of advancing the claims of the Subcontractor for delay, including but not limited to legal and other professional fees.

**Freight Charges & Shipments**

**ARTICLE VI.** The Subcontractor in making or ordering shipments shall not consign or have consigned materials, equipment or any other items in the name of Contractor. Contractor is under no obligation to make payment for charges on shipments made by or to the Subcontractor but may, at its option, pay such charges, in which case the Subcontractor shall reimburse Contractor for the amount of such payments plus a service charge of twenty-five percent (25%) of the amount so paid.

**Dimensions**

**ARTICLE VII.** Notwithstanding the dimensions on the Plans, Specifications and other Contract Documents it shall be the obligation and responsibility of the Subcontractor to take such measurements as will ensure the proper matching and fitting of the Work covered by this Agreement with contiguous work.

**Shop Drawings**

The Subcontractor shall prepare and submit to Contractor such shop drawings as may be necessary to describe completely the details and construction of the Work. Approval of such shop drawings by Contractor and/or the Architect shall not relieve the Subcontractor of its obligation to perform the Work in strict accordance with the Plans, Specifications, the Additional Provisions hereof and the other Contract Documents, nor of its responsibility for the proper matching and fitting of the Work with contiguous work and the coordination of the Work with other work being performed on the site, which obligation and responsibility shall continue until completion of the Work.

The Subcontractor's submission of a shop drawing to Contractor shall constitute the Subcontractor's representation, upon which Contractor may rely, that the Subcontractor has reviewed the submission for accuracy and compliance with all Contract Documents and that wherever engineering is required to be performed, same has been performed by a qualified and licensed engineer. Furthermore, the review of the Shop Drawing by Contractor shall not constitute an undertaking by Contractor to identify deficiencies in the submission, that being an undertaking within the sole responsibility of the Subcontractor.

**Contiguous Work**

Should the proper and accurate performance of the Work hereunder depend upon the proper and accurate performance of other work not covered by this Agreement, the Subcontractor shall carefully examine such other work, determine whether it is in fit, ready and suitable condition for the proper and accurate performance of the Work hereunder, use all means necessary to discover any defects in such other work, and before proceeding with the Work hereunder, report promptly any such improper conditions and defects to Contractor in writing and allow Contractor a reasonable time to have such improper conditions and defects remedied. Should Subcontractor fail to comply with the requirements of this Article, Subcontractor shall bear all costs incurred by Contractor, Owner and other subcontractors, and shall not be entitled to extensions of time and adjustments in Price, that could have been avoided by Subcontractor's compliance with the requirements of this Article.
ARTICLE VIII. The Work hereunder is to be performed and furnished under the direction and to the satisfaction of both the Architect and Contractor. The decision of the Architect as to the true construction, meaning and intent of the Plans and Specifications shall be final and binding upon the parties hereto. Contractor will furnish to the Subcontractor such additional information and Plans as may be prepared by the Architect to further describe the Work to be performed and furnished by the Subcontractor and the Subcontractor shall conform to and abide by the same.

The Subcontractor shall not make any changes, additions and/or omissions in the Work except upon written order of Contractor as provided in Article IX hereof.

ARTICLE IX. Contractor reserves the right, from time to time, whether the Work or any part thereof shall or shall not have been completed, to make changes, additions and/or omissions in the Work as it may deem necessary, upon written order to the Subcontractor. The value of the work to be changed, added or omitted shall be stated in said written order and shall be added to or deducted from the Price.

The value of the work to be changed, added or omitted shall be determined by the lump sum or unit prices, if any, stipulated herein for such work. If no such prices are stipulated, such value shall be determined by whichever of the following methods or combination thereof Contractor may elect:

(a) By adding or deducting a lump sum or an amount determined by a unit price agreed upon between the parties hereto,

(b) By adding (1) the actual net cost to the Subcontractor of labor in accordance with the established rates, including required union benefits, premiums the Subcontractor is required to pay for workmen’s compensation and liability insurance, and payroll taxes on such labor, (2) the actual cost to the Subcontractor of materials and equipment and such other direct costs as may be approved by Contractor less all savings, discounts, rebates and credits, (3) an allowance of S&D for overhead on items (1) and (2) above, and (4) an allowance of S&D for profit on items (1), (2) and (3) above.

Should the parties hereto be unable to agree as to the value of the work to be changed, added or omitted, the Subcontractor shall proceed with the work promptly under the written order of Contractor from which order the stated value of the work shall be omitted, and the determination of the value of the work, if not resolved in the normal course, shall be addressed pursuant to the dispute resolution procedures in accordance with Article XIX.

In the case of omitted work Contractor shall have the right to withhold from payments due or to become due to the Subcontractor an amount which, in Contractor’s opinion, is equal to the value of such work until such time as the value thereof is determined by agreement or by the Architect as hereinabove provided.

All changes, additions or omissions in the Work ordered in writing by Contractor shall be deemed to be a part of the Work hereunder and shall be performed and furnished in strict accordance with all of the terms and provisions of this Agreement and the other Contract Documents. Subcontractor accepts the responsibility to keep its surety informed of all such modifications to its contract. The obligations of Subcontractor and Subcontractor’s Surety shall not be reduced, waived or adversely affected by the issuance of such change orders, additions or deductions even if Subcontractor fails to inform Surety of same and Contractor shall not be required to obtain consent of the Surety to such modifications.

Subcontractor shall provide Contractor with written notice of any circumstance or direction given by Contractor which Subcontractor may regard as a change, addition and/or omission or which may otherwise serve as the basis for a request for an increase in Price or extension of time within 5 days of the receipt of the direction or the occurrence of the event giving rise to such a request. Such written notice shall provide a full explanation of the circumstances or direction and the extent of the increase and extension sought, including a detailed breakdown and analysis supporting such request. Failure of the Subcontractor to provide such written notice shall constitute a waiver of Subcontractor’s right to any such increase or extension.

Subcontractor acknowledges that the General Contract may include provisions whereby Contractor is required to provide notice, information, reports and analyses in the event that Contractor intends to pursue or which may affect Contractor’s right’s to an extension of time or increase in Contractor’s price to the Owner, whether by way of change order or otherwise, and that the failure to provide such notice, information, reports and analyses may result in a waiver or forfeiture of the right to such an extension or increase. Accordingly, Subcontractor agrees that Subcontractor shall provide all such notices, information, reports and analyses to Contractor in the same form, content and manner as Contractor is required to provide to Owner under the General Contract in the event that Subcontractor intends to pursue an extension of time or increase in Price. Subcontractor shall provide all such notices, information, reports and analyses to Contractor not later than 3 business days prior to the time by which Contractor must submit corresponding notice, information, reports and analyses to Owner so that Contractor can pursue such extensions and/or increases in Contractor’s price from the Owner. Subcontractor acknowledges that its failure to comply with the terms of this paragraph may result in the loss of or prejudice to Contractor’s ability to receive adjustments and extensions time from Owner. Subcontractor therefore agrees that it shall be deemed to have waived and forfeited all such rights in the event that it fails to provide notice, information, reports and analyses to Contractor as required by this Article. The terms and provisions of the paragraph are neither intended to relieve Subcontractor of the obligation to provide timely notices, information, reports and analyses, nor to extend shorter durations, required by the Contract Documents.

Notwithstanding the forgoing, the Subcontractor agrees that it shall not be entitled to nor claim any cost reimbursement, compensation, damages or extensions of time attributable to any changes, additions and/or omissions directed by Contractor except to the limited extent that Contractor has actually recovered corresponding cost reimbursement, compensation, damages or extensions of time from the Owner under the Contract Documents for such changes, additions and/or omissions and then only to the extent of the amount, if any, which Contractor on behalf of the Subcontractor, actually received from the Owner on account of such delay, obstruction, hindrance or interference. The preceding sentence shall not apply in a situation in which Contractor directed the performance of changes, additions and/or omissions by Subcontractor notwithstanding express language in the General Contract clearly indicating that Contractor is not entitled to recover a corresponding cost reimbursement, compensation, damages or extensions of time from the Owner.
ARTICLE X. The Subcontractor shall at all times provide sufficient, safe and proper facilities for the inspection of the Work by Contractor, the Architect, and their authorized representatives in the field, at shops or at any other place where materials or equipment for the Work are in the course of preparation, manufacture, treatment or storage. The Subcontractor shall, within twenty-four (24) hours after receiving written notice from Contractor to that effect, proceed to take down all portions of the Work and remove from the premises all materials whether worked or unworked, which the Architect, Contractor, Owner or any of its design consultants shall condemn as unsound, defective or improper or as in any way failing to conform to this Agreement or the Plans, Specifications or other Contract Documents, and the Subcontractor, at its own cost and expense, shall replace the same with proper and satisfactory work and materials and make good all work damaged or destroyed by or as a result of such unsound, defective, improper or nonconforming work or materials or by the taking down, removal or replacement thereof.

ARTICLE XI. Should the Subcontractor at any time, whether before or after final payment or completion of the Work, refuse or neglect to supply a sufficiency of skilled workers or materials of the proper quality and quantity, or fail in any respect to prosecute the Work with promptness and diligence, or cause by any act or omission the stoppage, impede, obstruct, hinder or delay of or interference with or damage to the work of Contractor or of any other contractors or subcontractors on the Project, or fail in the performance of any of the terms and provisions of this Agreement or of the other Contract Documents, or should the Architect, Contractor, Owner or any of its design consultants, determine that the Work or any portion thereof is not being performed in accordance with the Contract Documents, or should there be filed by or against the Subcontractor a petition in bankruptcy, voluntary or involuntary, it shall be within the right of Contractor to take such action as he deems necessary to protect his interest in the Work. Contractor shall have the right, in addition to any other rights and remedies provided by this Agreement and the other Contract Documents or by law, at one time or in phases at Contractor's discretion, after three (3) days written notice to the Subcontractor mailed or delivered to the last known address of the latter, (a) to perform and furnish through itself or through others any such labor or materials for all or any portion of the Work and to deduct the cost thereof from any monies due or to become due to the Subcontractor under this Agreement, (b) to terminate the employment of the Subcontractor for all or any portion of the Work, and/or (c) enter upon the premises and take possession, for the purpose of completing all or any portion of the Work, of all materials, equipment, scaffolds, tools, appliances and other items therewith as Contractor may select, of all of which the Subcontractor hereby authorizes Contractor to employ and communicate with any person or persons in connection with the completion of the Work and/or to provide all the labor, services, materials, equipment and other items required therefor. In case of Contractor taking action under this Article, including termination of the employment of the Subcontractor, the Subcontractor shall not be entitled to receive any further payment under this Agreement until the Work shall be wholly completed to the satisfaction of Contractor, Owner and the Architect and shall have been accepted by them, at which time, if the unpaid balance of the amount to be paid under this Agreement shall exceed the cost and expense incurred by Contractor in completing the Work, such excess shall be paid by Contractor to the Subcontractor; but if such cost and expense shall exceed such unpaid balance, then the Subcontractor and its surety, if any, shall pay the difference to Contractor. Such cost and expense shall include, not only the cost of completing the Work, but the satisfaction of Contractor and the Architect of and furnishing all labor, services, materials, equipment, and other items required therefor, but also all losses, damages, costs and expenses, including legal fees and disbursements incurred in connection with reprocurement, in defending claims arising from such default and in seeking recovery of all such cost and expense from the Subcontractor and its surety, and disbursements sustained, incurred or suffered by reason of or resulting from the Subcontractor's default. Should Contractor take action by effectuating the provisions of this paragraph, and should it subsequently be determined that such action, including a termination effectuated by the terms of this Article, was improper, such termination shall be treated as a termination for convenience pursuant to Article XXI below. Subcontractor hereby transfers and assigns to Contractor the all rights under agreements that Subcontractor may have with subcontractors to Subcontractor, suppliers and vendors in connection with the Work or the Project, which transfers and assignments may be accepted at Contractor's sole discretion in the event that Contractor has taken action under this Article. Subcontractor agrees to fully cooperate with Contractor in pursuing Contractor's rights hereunder and that Contractor shall not be required to defer or delay action taken pursuant to this Article during the pendency of any review, investigation, evaluation or assessment by Subcontractor or its surety.

It is recognized that if the Subcontractor institutes or has instituted against it a case under Title 11 of the United States Code (Bankruptcy Code), such event could impair or frustrate the Subcontractor's performance of this Agreement. Accordingly, it is agreed that upon the occurrence of any such event, Contractor shall be entitled to request of Subcontractor or its trustee or other successor adequate assurances of future performance. Failure to comply with such request within ten (10) days of delivery of the request shall entitle Contractor, in addition to any other rights and remedies provided by this Agreement or by law, to terminate this Agreement. Pending receipt of adequate assurances of performance and actual performance in accordance herewith, Contractor shall be entitled to perform and furnish through itself or through others any such labor, materials or equipment for the Work as may be necessary to maintain the progress of the Work and to deduct the cost thereof from any monies due or to become due to the Subcontractor under this Agreement. In the event of such bankruptcy proceedings, this Agreement shall terminate if the Subcontractor rejects this Agreement or if there has been a default and the Subcontractor is unable to give adequate assurance that it will perform as provided in this Agreement or otherwise is unable to comply with the requirements for assuming this Agreement under the applicable provisions of the Bankruptcy Code.

Subcontractor, in addition to any other rights available to Contractor hereunder, agrees to indemnify, hold harmless and defend Contractor from and against any and all claims, demands, suits, damages, judgments, liabilities, costs and expenses (including legal fees and disbursements) arising out of or related to Subcontractor's breach of any term of the Agreement.
ARTICLE XII. Contractor shall not be responsible for any loss or damage to the Work to be performed and furnished under this Agreement, however caused, until after final acceptance thereof by Contractor and the Architect, nor shall Contractor be responsible for loss of or damage to materials, tools, equipment, appliances or personal property owned, rented or used by the Subcontractor or anyone employed by it in the performance of the Work, however caused.

Builder's Risk Insurance

Contractor or Owner shall effect and maintain All-Risk Builder's Risk insurance in accordance with the Contract Documents upon all Work, materials and equipment incorporated in the Project and all materials and equipment on or about the Premises intended for permanent use or incorporation in the Project or incident to the construction thereof, the capital value of which is included in the cost of the Work, but not including any contractors' machinery, tools, equipment or other personal property owned, rented or used by the Subcontractor or anyone employed by it in the performance of the Work.

A loss insured under Contractor or the Owner's All-Risk Builder's Risk insurance shall be adjusted by the Contractor or the Owner as fiduciary and made payable to Contractor or the Owner as fiduciary for the Insureds, as their interests may appear. Contractor or the Owner shall pay Subcontractors their just shares of insurance proceeds received by Contractor or the Owner, and by appropriate agreements, written where legally required for validity, and shall require Subcontractors to make payments to their subcontractors in a similar manner.

Cleaning Up

ARTICLE XIII. The Subcontractor shall, at its own cost and expense, (1) keep the Premises free at all times from all waste materials, packaging materials and other rubbish accumulated in connection with the execution of its Work by collecting and disposing said materials and rubbish in locations or containers as designated by Contractor from which it shall be removed by Contractor from the Premises without charge, (2) clean and remove from its own Work and from all contiguous work of others any soiling, staining, mortar, plaster, concrete or dirt caused by the execution of its Work and make good all defects resulting therefrom at the completion of its Work in each area, perform such cleaning as may be required to leave the area "broom clean", and (4) at the entire completion of its Work, remove all of its tools, equipment, scaffolds, shanties and surplus materials. Should the Subcontractor fail to perform any of the foregoing to Contractor's satisfaction, Contractor shall have the right to perform and complete such work itself or through others and charge the cost thereof to the Subcontractor.

Ethics & Compliance

ARTICLE XIV. The Subcontractor shall obtain and pay for all necessary permits and licenses pertaining to the Work and shall comply with all Federal, State, Municipal and local laws, ordinances, codes, rules, regulations, standards, orders, notices and requirements, including but not limited to those relating to safety, storm water management, discrimination in employment, fair employment practices, immigration laws or equal employment opportunity, and whether or not provided for by the Plans, Specifications, General Conditions, or other Contract Documents, without additional charge or expense to Contractor and shall assure that it is responsible for and correct, at its own cost and expense, any violations thereof resulting from or in connection with the performance of its Work. Each requisition for payment shall constitute a representation and warranty that Subcontractor is in compliance with applicable law.

The Subcontractor shall at any time upon demand furnish such proof as Contractor may require showing such compliance and the correction of such violations. The Subcontractor agrees to save harmless and indemnify Contractor from and against any and all loss, injury, claims, actions, proceedings, liability, damages, fines, penalties, costs and expenses, including legal fees and disbursements, caused or occasioned directly or indirectly by the Subcontractor's failure to comply with any of said laws, ordinances, rules, regulations, standards, orders, notices or requirements or to correct such violations therefore resulting from or in connection with the performance of Work.

The Immigration and Nationality Act as amended by the Immigration Reform and Control Act of 1986 (IRCA) makes it illegal for employers to knowingly hire persons who are not authorized to work in the United States. For all employees, employers are required to complete an Employment Eligibility Verification form I-9 which requires the prospective employee to produce documentation that establishes identity and employment eligibility. For more information visit www.uscis.gov, or speak to your attorney. Each subcontractor is solely responsible for properly completing Employment Eligibility Verifications for their own employees.

Subcontractor acknowledges represents and warrants that Subcontractor is aware of and understands IRCA, that Subcontractor is in compliance with IRCA, and that Subcontractor is not knowingly employing workers who are not authorized to work in the United States. Subcontractor agrees that Subcontractor will not employ any worker under this subcontract for whom Subcontractor has not completed and maintained I-9 verification. Subcontractor agrees that if Subcontractor acquires knowledge (constructive or otherwise, including receipt of a "no match" letter from Social Security Administration) indicating that one of Subcontractor's workers on this project may not be authorized to work in the United States, despite Subcontractor having conducted a facially valid I-9 verification, that Subcontractor will exercise due diligence as required by law to confirm authorization status and take appropriate action which may include termination of employment. Subcontractor represents and warrants that they will not subcontract to or utilize labor sources that it knows or has reason to know violate IRCA.

Contractor has a longstanding reputation for honesty and integrity in its business dealings and for its corporate policies promoting lawful and ethical behavior. Contractor is committed to upholding that reputation and has adopted a Standard of Business Conduct Policy Statement which governs the actions of all of its employees. Pursuant to that Policy Statement, Contractor employees are prohibited from accepting bribes or kickbacks in any form and, further, are prohibited from accepting goods or services provided by a subcontractor, supplier or vendor for the personal benefit of the employee, his or her relatives, or any entity in which the employee or his or her relatives has a personal interest. This prohibition includes, but is not limited to, work performed on an employee's residence and applies regardless of whether the beneficiary of the goods or services pays for them. Therefore, if the Subcontractor offers or provides a bribe or kickback to any employee, or offers or provides goods or services to any employee, his or her relatives, or any entity in which the employee or his or her relatives has a financial interest, the Subcontractor will be considered to be in material breach of this Subcontract. Subcontractor undertakes the commitment to advise Contractor of any action by any entity or person associated with the project that Subcontractor believes violates any applicable law, rule or regulation. Subcontractor's violation of any of the foregoing shall be considered as Subcontractor's failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article XI of this Agreement.

The provisions of this Article must be incorporated into any subcontract Subcontractor enters into in connection with the performance of the Work.
Harassment

ARTICLE XV. It is the goal of Contractor to promote a work environment at the Project that is free from harassment of any kind. Contractor has ZERO TOLERANCE for harassment, including harassment on the basis of race, sex, gender, gender identity, gender expression, transgender status, sexual orientation, pregnancy, childbirth and other pregnancy-related conditions, color, national origin, ancestry, religious creed, citizenship, marital status (including registered domestic partners), parental status, physical disability, mental disability, medical condition, genetic information, military or veteran status (including protected veteran status), or any other characteristic or status protected by law. Subcontractor agrees to be bound by the Policy Statement on Harassment referenced in Article XXII below, and any violation or suspected violation of such policy by Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers shall be considered as Subcontractor’s failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article XI of this Agreement. Subcontractor shall actively promote a harassment-free work environment among its officers, agents, servants, employees, subcontractors, and suppliers.

Labor to be Employed

ARTICLE XVI. The Subcontractor shall not employ workers, means, materials or equipment or assign work in any manner which may cause strikes, work stoppages or any disturbances by workers employed by the Subcontractor, Contractor or other contractors or subcontractors on or in connection with the Work or the Project or the location thereof. The Subcontractor agrees that all disputes as to jurisdiction of trades shall be adjusted in the manner or by a process that Contractor may require, including, if Contractor so requires, in accordance with any plan for the settlement of jurisdictional disputes to which Contractor may be bound in connection with the Project which may be in effect either nationally or in the locality in which the Work is being done. Subcontractor agrees that it shall assign work consistent with any such plan and shall be bound and abide by all such adjustments and settlements of jurisdictional disputes, provided that the provisions of this Article shall not be in violation of or in conflict with any provisions of law applicable to the settlement of such disputes. Should the Subcontractor fail to carry out or comply with any of the foregoing provisions, Contractor shall have the right, in addition to any other rights and remedies provided by this Agreement or the other Contract Documents or by law, after three (3) days or the written notice mailed or delivered to the last known address of the Subcontractor, to terminate this Agreement or any part thereof or the employment of the Subcontractor for all or any portion of the Work, and, for the purpose of completing the Work, to enter upon the Premises and take possession, in the same manner, to the same extent and upon the same terms and conditions as set forth in Article XI of this Agreement.

The Project or General Contract may be subject to Federal prevailing wage requirements, such as the Davis-Bacon Act or the Walsh-Healy Act, or other similar laws, statutes or requirements at a state or local level. Subcontractor shall strictly comply with all applicable prevailing wage laws, statutes or requirements and shall maintain such records as necessary to establish the amount of wages and other compensation paid to workers in connection with the Project and shall submit to Turner, as a condition for payment, certified payrolls in the form prescribed by any such laws, regulations or requirements. Subcontractor expressly agrees that the indemnification obligations set forth in this Agreement shall apply to any violations by Subcontractor of any such laws, statutes or regulations and the failure to maintain records as required herein.

Taxes & Contributions

ARTICLE XVII. The Subcontractor for the Price herein provided, hereby accepts and assumes liability for and shall indemnify, protect and save harmless Contractor and the Owner from and against the payment of:

1. All contributions, taxes or premiums (including interest and penalties thereon) which may be payable under the Unemployment Insurance Law of any State, Federal Social Security Act, Federal, State, County and/or Municipal Tax Withholding Laws, or any other law, measured upon the payroll of or required to be withheld from employees, by whomsoever employed, engaged in the Work to be performed and furnished under this Agreement.
2. All sales, use, personal property and other taxes (including interest and penalties thereon) required by any Federal, State, County, Municipal or other law to be paid or collected by the Subcontractor or any of its subcontractors or vendors or any other person or persons acting for, through or under it or any of them, by reason of the performance of the Work or the acquisition, ownership, furnishing, or use of any materials, equipment, supplies, labor, services or other items for or in connection with the Work.
3. All pension, welfare, vacation, annuity and other union benefit contributions payable under or in connection with labor agreements with respect to all persons, by whomsoever employed, engaged in the Work to be performed and furnished under this Agreement.

In furtherance of, and in addition to the agreements, duties obligations and responsibilities of the Subcontractor with respect to the payment of sales, use, personal property and other taxes set forth in Articles IV and XVII of this Agreement, the Subcontractor agrees to reimburse and otherwise indemnify Contractor and the Owner for any expenses, including legal fees and litigation arising from, or related to the Subcontractor’s failure to pay any sales, use, personal property or other taxes based upon labor, services, materials, equipment or other items acquired, performed, furnished or used for or in connection with the Work.

Patents

ARTICLE XVIII. The Subcontractor hereby agrees to indemnify, protect and save harmless Contractor and the Owner from and against any and all liability, loss or damage and to reimburse Contractor and the Owner for any expenses, including legal fees and disbursements, to which Contractor and the Owner may be put because of claims or litigation or account of infringement or alleged infringement of any letters patent or patent rights by reason of the Work or materials, equipment or other items used by the Subcontractor in its performance.

Disputes

ARTICLE XIX. The parties recognize that problems and disputes between them may occur and that it is preferable for them to reach an amicable resolution of same without the need to resort to formal dispute resolution procedures. In that regard, they each pledge to participate in good faith in voluntary and non-binding Alternate Dispute Resolution (ADR) procedures in the form of a mediation conducted by a neutral mediator, or such other form as the parties otherwise agree, as a condition precedent to addressing the dispute in any other forum unless Contractor agrees in writing to waive this condition precedent. The procedure for requesting such an ADR shall begin with a written notice of request for ADR delivered by one party hereto to the other. Within 14 days following the receipt of such notice, lead representatives of Subcontractor and Contractor shall meet in an effort to resolve the dispute. In the event that the dispute remains unresolved after the lead representatives meeting, a meeting shall take place between the President of Subcontractor and the General Manager or Operations Manager of Contractor within 20 days thereafter. In the event that the dispute remains unresolved after the President/Manager meeting, the parties shall proceed with ADR procedures described in the Article. However, in the event that such disputes are not resolved by mediation or another ADR
procedure as Contractor and the Subcontractor may agree then such disputes shall be resolved any of following forums selected at Contractor's sole discretion either (1) the forum pursuant to which disputes between the Owner and Contractor are to be resolved under the terms of the General Contract, (2) arbitration administered by the American Arbitration Association under the rules pertinent to construction disputes then applicable or (3) in litigation. Furthermore, the Subcontractor agrees that Contractor shall have the exclusive right to choose in the Subcontractor's discretion (non-option ADR procedures, binding arbitration or other judicial or non-judicial proceeding) in which Contractor may be involved arising out of or in connection with the Project, together with such other subcontractors or parties as may be appropriate, where in the judgment of Contractor the issues in dispute are related to the work or performance of the Subcontractor. In the event that relevant law limits or precludes Contractor's sole discretion in selecting the forum, then the dispute shall be resolved in litigation, unless the Subcontractor is to be joined by Contractor in a proceeding with Owner, in which case the forum shall be as stated in the General Contract. Furthermore, the Subcontractor expressly agrees to waive its right to trial by jury in any dispute involving Contractor and or Contractor's surety. Subcontractor further agrees that in the event that it suffers damages, cost or expenses or otherwise intends to pursue a recovery that arises out of or relates to the performance of work by another subcontractor to or under Contractor, Subcontractor's sole remedy shall be as against that responsible subcontractor and Subcontractor shall not pursue a remedy from Contractor.

Subcontractor shall continue with the diligent performance of Work pursuant to this Subcontract and follow and abide by directions and instructions issued by Contractor during the pendency of any dispute, including dispute resolution procedures, ADR procedures, arbitration or litigation.

All claims, suit or demands by Subcontractor as against Contractor or Owner shall be brought within the earlier of one year following Subcontractor's achieving substantial completion for the Subcontractor's Work or within one year of Contractor's notice of default in the event that Contractor has taken any action in accordance with Article XI, and Subcontractor hereby agrees that all relevant statutes of limitations shall be deemed reduced to such time period, to the fullest extent permitted by law.

Mechanics' Liens & Claims

To the fullest extent permitted by law, Subcontractor for itself and for its subcontractors, laborers and materialmen and suppliers and all others directly or indirectly acting for, through or under it or any of them covenants and agrees that no liens or claims, whether a mechanics lien or an attached account or otherwise, will be filed or maintained against the Project or Premises or any part thereof or any interests therein or any improvements thereon or against any monies due or to become due from the Owner to Contractor or from Contractor to the Subcontractor, for or on account of any work, labor, services, materials, supplies, equipment, or other items performed or furnished for or in connection with the Work, and the Subcontractor for itself and its Subcontractors, laborers, and materialmen and suppliers and all others above mentioned does hereby expressly waive, release and relinquish all rights to file or maintain such liens and claims and agrees further that this waiver of the right to file or maintain such liens and claims shall be an independent covenant and shall apply as well to work, labor and services performed and materials, supplies, equipment and other items furnished under any change order or supplemental agreement for extra or additional work in connection with the Project as to the Original Work covered by this Agreement.

If any subcontractor, laborer, materialman or supplier of the Subcontractor or any person directly or indirectly acting for, through or under it or any of them files or maintains a lien or claim, whether a mechanics' lien or an attached account or otherwise, a mechanic's lien or claim against the Project or Premises or any part thereof or any interests therein or any improvements thereon or against any monies due or to become due from the Owner to Contractor or from Contractor to the Subcontractor, or for or on account of any work, labor, services, materials, supplies, equipment or other items furnished or furnished for or in connection with the Work or under any change order or supplemental agreement for extra or additional work in connection with the Project, the Subcontractor agrees to cause such liens and claims to be satisfied, removed or discharged at its own expense by bond, payment or otherwise within ten (10) days from the date of the filing thereof, and upon its failure to do so Contractor shall have the right, in addition to all other rights and remedies provided under this Agreement and the other Contract Documents or by law, to cause such liens or claims to be satisfied, removed or discharged by whatever means Contractor chooses, at the entire cost and expense of the Subcontractor (such cost and expense to include legal fees and disbursements).

The Subcontractor agrees to indemnify, protect and save the Contractor and Subcontractor harmless from and against any and all loss, damages, liabilities, costs and expenses, including legal fees and disbursements, which Contractor and/or the Owner may sustain or incur in connection therewith.

Assignment & Subletting

ARTICLE XX. To the fullest extent permitted by law, Subcontractor agrees that it shall not assign, sell, transfer, delegate or encumber any rights, duties or obligations arising under this Agreement including, but not limited to, any right to receive payments hereunder, without the prior written consent of Contractor in its sole discretion and the giving of any such consent to a particular assignment shall not dispense with the necessity of such consent to any further or other assignments. In the event Subcontractor assigns, sells, encumbers or otherwise transfers its right to any monies due or to become due under this Agreement as security for any loan, financing or other indebtedness (hereafter "Assignment"), notification to Contractor of such Assignment must be sent by certified mail, return receipt requested, to the Procurement Manager in charge of the business unit responsible for the construction of the Project and the Assignment shall not be effective as against Contractor until Contractor provides its written consent to such Assignment. Subcontractor agrees that any such Assignment shall not relieve the Subcontractor of any of its agreements, duties, responsibilities or obligations under this Agreement and the other Contract Documents and shall not create or establish any contractual relationship or a third party beneficiary relationship of any kind between Contractor and such assignee or transferee. Subcontractor further agrees that all of Contractor's defenses and claims arising out of this Agreement with respect to such Assignment are reserved unless expressly waived in writing by a duly authorized corporate officer. Subcontractor hereby agrees to indemnify and hold harmless Contractor from and against any and all loss, cost, expense or damages Contractor or Owner has or may sustain or incur in connection with such Assignment.

Termination for Convenience

ARTICLE XXI. Contractor shall have the right at any time and for any reason, by written notice to the Subcontractor, to terminate this Agreement without cause and require the Subcontractor to cease work hereunder. In the event of such a termination for convenience, the Subcontractor shall be entitled to payment pursuant to the terms of the Agreement only for all Work performed as of the date of termination, together with reasonable costs of demobilization and such other reasonable costs as may be encountered by the Subcontractor and directly attributable to such termination provided that such amount shall be reduced by all amounts for which Subcontractor is liable or responsible hereunder. However, the Subcontractor shall only be entitled to profit on that portion of the Work actually performed and approved for payment to the date of termination together with retainages held upon payments made prior thereto. Subcontractor waives any claim for loss of anticipated profits or other damages in the event Contractor exercises this clause.
ARTICLE XXII. The Subcontractor hereby guarantees the Work to the full extent provided in the Plans, Specifications, General Conditions, Special Conditions and other Contract Documents.

The Subcontractor shall expeditiously remove, replace and/or repair at its own expense and at the convenience of the Owner any faulty, defective or improper Work, materials or equipment existing or discovered within one (1) year from the date of the acceptance of the Project as a whole by the Architect and the Owner or for such longer period as may be provided in the Plans, Specifications, General Conditions, Special Conditions or other Contract Documents.

Without limiting the generality of the foregoing, the Subcontractor warrants to the Owner, the Architect and Contractor, and each of them, that all materials and equipment furnished under this Agreement will be of first class quality and new, unless otherwise required or permitted by the other Contract Documents. The Work performed pursuant to this Agreement will be free from defects and that the Work will strictly conform with the requirements of the Contract Documents. Work not conforming to such requirements, including substitutions not properly approved and authorized, shall be considered defective. All warranties contained in this Agreement and in the Contract Documents shall be in addition to and not in limitation of all other warranties or remedies required and/or arising pursuant to applicable law. Failure of Subcontractor to honor and satisfy the foregoing and any other warranties or guarantees required of the Subcontractor under the Contract Documents, shall constitute a default by Subcontractor.

ARTICLE XXIII. The Subcontractor agrees that the prevention of accidents to workmen and property engaged upon or in the vicinity of the Work is its responsibility. The Subcontractor agrees to comply with all Federal, State, Municipal and local laws, ordinances, rules, regulations, codes, standards, orders, notices and requirements concerning safety as shall be applicable to the Work, including, among others, the Federal Occupational Safety and Health Act of 1970 and the Clean Water Act, as amended, and all standards, rules, regulations and orders which have been or shall be adopted or issued thereunder, and with the safety standards established by the Architect. When so ordered, the Subcontractor shall stop any part of the Work which Contractor deems potentially unsafe, noncompliant or in violation until corrective measures satisfactory to Contractor have been taken, and the Subcontractor agrees that it shall not have nor make any claim for damages growing out of such stoppages. Should the Subcontractor neglect to take such corrective measures, Contractor may do so at the cost and expense of the Subcontractor and may deduct the cost thereof from any payments due or to become due to the Subcontractor. Failure on the part of Contractor to stop unsafe practices shall in no way relieve the Subcontractor of its responsibility therefor.

This Subcontractor acknowledges the receipt of Contractor's "Corporate Safety, Health and Environmental Policy", "Substance Abuse Policy", "Equal Employment Opportunity" policy and "Policy Statement on Harassment." Subject to applicable law this Subcontractor further agrees to be bound to these policies as a part of the supplemental and special conditions to the contract for construction of the project, including any amendments or modifications of such policies that Contractor may issue at any time. Subcontractor further acknowledges that Contractor endeavors to employ on its projects robust programs with respect to safety and storm water management, as well as compliance with relevant laws and regulations, including, without limitation, OSHA and the Clean Water Act. Such programs may include aggressive measures and requirements, such as reporting, training of personnel and inspections that may be considerably above and beyond minimum standards. Subcontractor agrees to comply with any and all requirements Contractor may impose in connection with such programs and policies, whether as part of this Subcontract or hereafter, and the cost and expense of such compliance shall be borne by the Subcontractor.

In the event that hazardous substances of a type of which an employer is required by law to notify its employees are being used or stored on the site by the Subcontractor, the Subcontractor's subcontracts and anyone directly or indirectly employed or otherwise retained by them or any of them, the Subcontractor shall immediately provide written notice of the chemical composition thereof (including, without limitation, the applicable Material Safety Data Sheet) to Contractor in sufficient time to permit compliance with such laws by Contractor, other subcontractors and other employers on the site. In the event that the Subcontractor encounters on the site material reasonably believed to be hazardous substances (including, without limitation, asbestos or polychlorinated biphenyl) which has not been rendered harmless, the Subcontractor shall immediately stop Work in the area affected and immediately report the condition to Contractor in writing. Work in the affected area shall remain when such hazardous substances have been rendered harmless or removed as determined by Contractor in its sole and absolute discretion. To the extent of Subcontractor's responsibilities hereunder, Subcontractor does indemnify and save harmless Contractor from and against any and all loss, injury, claims, actions, proceedings, liability, damages, fines, penalties, cost and expenses, including legal fees and disbursements, caused or occasioned directly or indirectly by the Subcontractor in regard to such hazardous substances.

ARTICLE XXIV. Throughout this Agreement, the "Indemnified Party (ies)" means Contractor, the Owner, any party required to be indemnified pursuant to the General Contract, and any of their respective officers, agents, servants, or employees, and affiliates, parents and subsidiaries. Except as otherwise provided below, the Subcontractor hereby assumes the entire responsibility and liability for any and all actual or potential damage or injury of any kind or nature whatsoever (including death, business interruption or loss of use resulting therefrom) to all persons and entities, whether employees of the Subcontractor or any tier of the Subcontractor or otherwise, to or at all property; or as a result of a perceived risk of such damage or injury (including actions taken to avoid or contain such actual or potential damage or injury, whether required or incurred by a public authority or otherwise); caused by, resulting from, arising out of or occurring in connection with the execution of the Work, or in preparation for the Work, or any extension, modification, or amendment to the Work by change order or otherwise. Should any claims for such actual or potential damage or injury (including death resulting therefrom) be made or asserted, whether or not such claims are based upon an Indemnified Party's alleged active or passive negligence or participation in the wrong or upon any alleged breach of any statutory duty or obligation on the part of an Indemnified Party, the Subcontractor agrees to indemnify and save harmless the Indemnified Party from and against any and all such claims and further from and against any and all loss, cost, expense, liability, damage, penalties, fines or injury, including legal fees and disbursements, that the Indemnified Party may directly or indirectly sustain, suffer or incur as a result thereof. However, this Article shall not be construed in any way to require the Subcontractor, its agents, and its employees to indemnify the Indemnified Party for damages because of property damage or
bodily injury caused by or resulting from the sole negligence of the Indemnified Party. In all other instances, including but not limited to, instances where the Indemnified Party is partially, but not solely, negligent, the Subcontractor agrees to and does hereby assume, on behalf of the Indemnified Party, the defense of any action at law or in equity which may be brought against the Indemnified Party upon or by reason of such claims and to pay on behalf of the Indemnified Party, upon demand, the amount of any judgment that may be entered against the Indemnified Party in any such action. In the event that any such claims, loss, cost, expense, liability, damage, penalties, fines or injury arise or are made, asserted or threatened against the indemnified Party, Contractor shall have the right to withhold from any payments due or to become due to the Subcontractor an amount sufficient in its judgment to protect and indemnify the Indemnified Party from and against any and all such claims, loss, cost, expense, liability, damage, penalties, fines or injury, including legal fees and disbursements, or Contractor in its discretion may require the Subcontractor to furnish a surety bond satisfactory to Contractor guaranteeing such protection, which bond shall be furnished by the Subcontractor within five (5) days after written demand has been made therefor.

In furtherance to but not in limitation of the indemnity provisions in this Agreement, Subcontractor hereby expressly and specifically agrees that its obligation to indemnify, defend and save harmless as provided in this Agreement shall not in any way be affected or diminished by any statutory or constitutional immunity it enjoys from suits by its own employees or from limitations of liability or recovery under worker's compensation laws.

IN THE EVENT THAT THE LAW OF THE STATE IN WHICH THE PROJECT IS LOCATED (OR OTHER APPLICABLE LAW) LIMITS THE INDEMNITY OBLIGATIONS OF THE SUBCONTRACTOR, THEN THE INDEMNITY OBLIGATIONS OF THE SUBCONTRACTOR SHALL BE ENFORCED TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, AND THIS ARTICLE SHALL BE CONSTRUED TO CONFORM TO SUCH LAW.

Insurance

ARTICLE XXV. Insurance.

A. Required Insurance

Before commencing the Work, the following insurance coverages from insurance companies satisfactory to Contractor shall be in place and maintained until completion and final acceptance of the Work:

1. WORKERS' COMPENSATION in accordance with laws of the State in which the Work is situated, and EMPLOYERS' LIABILITY INSURANCE in the amount of $1,000,000.

2. COMMERCIAL GENERAL LIABILITY INSURANCE INCLUDING COMPLETED OPERATIONS, CONTRACTUAL LIABILITY INSURANCE AGAINST THE LIABILITY ASSUMED HEREAFTER, and including INDEPENDENT CONTRACTOR'S LIABILITY INSURANCE if the Subcontractor sublets to another all or any portion of the Work, Personal Injury Liability, Broad Form Property Damage (including completed operations), and Explosion, Collapse and Underground Hazards, with the following minimum limits: (Coverage shall be equivalent to current ISO Occurrence Form). No exclusions or restrictions for Crane usage will be permitted.

$ SDS /Occurrence

$ SDS General Aggregate

Subcontractor has elected to obtain the above insurance coverages set forth in paragraphs 1 and 2 above in the manner set forth in the Subcontractor Election A, B or C (with Subcontractor Election B having a further coverage option that is stated in, and may be elected by checking, Sub-Part B-1) that is checked below (Note: only one of Subcontractor Election A, B or C is to be selected, however Subpart B-1 may also be selected but only if Subcontractor Election B is selected):

SDS Subcontractor Election A). The above insurance coverages shall be provided by insurance companies selected by the Subcontractor. Contractor shall have the right, without limitation, to reject any insurance company selected by Subcontractor that has an A.M. Best rating of less than A or Standard and Poor's rating of less than AA or a Moody's rating of less than Aa. This insurance coverage shall include Products and Completed Operations coverage which Subcontractor agrees to maintain for a period equal to the statute of repose in the state in which the project is located. Subcontractor further agrees that it shall require each of its sub-subcontractors to provide the above insurance coverages subject to the terms and conditions set forth below. All costs are included in the Price and are to be paid by the Subcontractor.

SDS Subcontractor Election B). The above insurance coverages shall be provided through a consolidated insurance program that insures Subcontractor and its eligible lower tier subcontractors, which program has been made available to Subcontractor by Contractor, as described and with limits of liability, terms and conditions set forth in the Contract Documents, including, but not limited to, the CCIP Manual, and Subcontractor agrees to all terms and conditions therein, and makes all representations and warranties, associated therewith. Subcontractor acknowledges and agrees 1) that insurance costs will be incurred to provide the above insurance coverages under the consolidated program; ii) that as opposed to Subcontractor including such insurance costs in the Price and paying such costs directly, the Price does not include insurance costs for the above insurance coverages, iii) that it is more convenient and efficient for Contractor to pay such insurance costs on Subcontractor's and Subcontractor's eligible lower tier subcontractor's behalf, and iv) that Contractor is authorized by Subcontractor to pay such insurance premiums on Subcontractor's behalf and Subcontractor's eligible lower tier subcontractor's behalf.

SDS Sub-Part B-1 to Subcontractor Election B. By checking this further election, Subcontractor agrees that it has selected Subcontractor Election B with respect to providing the above insurance coverages for eligible lower tier subcontractors engaged by or through Subcontractor to the extent
permitted by the Contract Documents (including the CCIP Manual), however, Subcontractor agrees that as to Subcontractor itself, the above insurances will be provided by Subcontractor in accordance with the terms and conditions of Subcontractor Election A above. Accordingly, Subcontractor shall be deemed an "Excluded Party" with respect to the consolidated insurance program as described in the Contract Documents (including the CCIP Manual). Any other "Excluded Party" lower tier subcontractors (if applicable) with respect to the consolidated insurance program arranged by Contractor shall be required to procure their own insurance coverages at their expense. For Subcontractor's lower tier subcontractors that are not an "Excluded Party", the above insurance coverages shall be provided through the consolidated insurance program as described in Subcontractor Election B to the extent permitted by the Contract Documents (including the CCIP Manual).

Subcontractor represents and warrants that all amounts, information and data that Subcontractor and its lower tier subcontractors has provided or will provide in connection with CCIP applications and other related forms and documents, including estimated payroll and insurance costs, are, or shall be when submitted, true and accurate. Subcontractor represents and warrants that the amount of estimated unburdened payroll (payroll without benefits or overtime, unless the overtime portion is included as required by the regulations of the State in which the project is located) actually used by Subcontractor and its eligible lower tier subcontractors in calculating the Price is $SDS ("Initial Payroll Estimate" or "Estimated On-Site Payroll") if Sub-Part B-1 is elected, this amount only pertains to Subcontractor's eligible lower tier subcontractors. Subcontractor further agrees that all such amounts, data and information, including the estimated unburdened payroll amount used to calculate the Price, shall be to subject to audit and verification if Contractor or the CCIP Administrator elects to do so and Subcontractor agrees to cooperate fully and provide documents and other records requested in connection with such audit and verification and to cause its lower tier subcontractors to do the same. Subcontractor acknowledges that such amounts, data and information are, and (i) that with the CCIP Manual or through audit may be used to calculate final and interim cost adjustments to the Price and/or payments to Subcontractor (at Contractor's discretion) as described in the CCIP Manual. Contractor and the CCIP Administrator shall not be required to use any amount greater than the foregoing "Estimated On-Site Payroll" as the unburdened payroll amount when calculating such adjustments for Subcontractor and its lower tier subcontractors as described in the CCIP Manual.

or

SDS Subcontractor Election C). The above insurance coverages shall be provided through an Owner Controlled Insurance Program (OCIP) as described and with limits of liability set forth in the Contract Documents and Subcontractor agrees to all terms, and makes all representations and warranties, associated therewith.

Subcontractor acknowledges that if any of the above insurance coverages are provided through a consolidated program arranged pursuant to Subcontractor Election B, Subcontractor Election B-1 or Subcontractor Election C, such coverage will not apply to any operations off of the premises (as defined in the CCIP Policy or Manual or OCIP Policy or Manual) and Subcontractor shall provide and maintain the above insurance coverages with respect to off-premises operations. Subcontractor further agrees that in the event that the insurance coverage provided by a consolidated insurance program (Subcontractor Election B or C) is cancelled prior to the completion of the Work, subcontractor shall provide the insurance coverage (set forth in paragraphs 1 and 2). Subcontractor further acknowledges and represents (i) that it was not required to select any particular election provided for above and was free to choose Subcontractor Election A if it preferred to apply for and obtain insurance itself, (ii) that Subcontractor has received and reviewed the other Subcontractor Elections available for this Project and has chosen the election selected above, and (iii) that Subcontractor has satisfied itself that the Subcontractor Election checked above is preferable to Subcontractor for reasons of convenience, economics and/or coverage afforded.

3. COMMERCIAL AUTOMOBILE LIABILITY INSURANCE covering all owned, non-owned and hired automobiles used in connection with the Work, with the following minimum limits:

Combined Single Limit $SDS /accident

4. ALL RISK CONTRACTOR'S EQUIPMENT INSURANCE COVERAGE shall be provided by all Subcontractors utilizing a crane or other equipment in connection with the performance of the Work and insured to the full value of equipment.

B. Insurance Conditions

The following terms and conditions are applicable to all insurance:

Before commencing the Work, the Subcontractor shall furnish a certificate(s), satisfactory to Contractor from each insurance company showing that the above insurances (1, 2 Subcontractor Election A, 3 and CGL operations off of the premises under 2 Subcontractor Election B and C, and 4) are in force, stating policy numbers, dates of expiration, and limits of liability thereunder, and further providing that should any of the described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Subcontractor shall advise Contractor of the amount of any Deductible or Self-Insured Retention that exists on any policies of insurance on the face of the certificates provided. Subcontractor shall be responsible for and agrees to pay and/or reimburse Contractor for any such Deductible or Self-Insured Retention.

The Subcontractor shall name the Indemnified Parties and such other entities as may be reasonably requested as additional insureds under the policies of insurance listed in paragraph A maintained by the Subcontractor (with the exception of Workers Compensation insurance), whether during the performance of the Work or any time thereafter. The coverage to be provided to the additional insureds shall be for all liability arising out of the Work. Subcontractor will submit a certificate of
insurance and a copy of endorsements to the insurance policies listing all parties required to be named by Subcontractor as additional insureds. Subcontractor hereby waives all rights of recovery from Contractor and the Indemnified Parties, including but not limited to rights of subrogation, with respect to any matter, claim or suit that is required to be covered by insurance to be maintained by Subcontractor pursuant to the Contract Documents.

It is expressly agreed by and between Subcontractor and Contractor that all insurance, whether issued on a primary or excess basis, afforded the additional insureds shall be primary insurance to any other insurance available to the additional insureds and that any other insurance carried by the additional insureds shall be excess of all other insurance carried by the Subcontractor and shall not contribute with the Subcontractor's insurance. Subcontractor further agrees that the amount of insurance available to Contractor and the additional insureds shall be for the full amount of the loss up to policy limits of liability and shall not be limited to the minimum requirements of this Subcontract. Subcontractor further agrees to provide endorsements on its insurance policies that shall state the foregoing; however, Subcontractor's failure to provide such endorsement shall not affect Subcontractor's agreement hereunder.

If the Subcontractor fails to procure and maintain such insurance, if required, Contractor shall have the right, but not the obligation, to procure and maintain said insurance for and in the name of the Subcontractor and the Subcontractor shall pay the cost thereof and shall furnish all necessary information to make effective and maintain such insurance or at Contractor's option, Contractor may offset the cost incurred by Contractor against amounts otherwise payable to Subcontractor hereunder. Subcontractor further agrees that in the event of such failure to procure and maintain such insurance, Subcontractor shall be liable for all amounts which would have been payable pursuant to the insurance required by this Subcontract. If, in Contractor's discretion, Contractor is concerned that any insurance company selected by Subcontractor has, at any time, faced diminished financial strength or that the insurance company may no longer provide the same level of financial strength (such as a decline in an A. M. Best, Standard and Poor's or Moody's rating), Contractor may require that Subcontractor provide replacement insurance coverage through an insurance company satisfactory to Contractor.

IN THE EVENT THAT THE LAW OF THE STATE IN WHICH THE PROJECT IS LOCATED (OR OTHER APPLICABLE LAW) LIMITS THE ADDITIONAL INSURED COVERAGE THAT CONTRACTOR MAY REQUIRE FROM SUBCONTRACTOR, THEN SUBCONTRACTOR SHALL BE REQUIRED TO OBTAIN ADDITIONAL INSURED COVERAGE TO THE FULLEST EXTENT OF COVERAGE AND LIMITS ALLOWED BY APPLICABLE LAW AND THIS CONTRACT SHALL BE READ TO CONFORM TO SUCH LAW.

**Bonds**

**ARTICLE XXVI.** The Subcontractor shall furnish to Contractor a performance bond in the amount of $ **SDS** and a separate payment bond in the amount of $ **SDS** the form and contents of such bonds and the Surety or Sureties thereon to be satisfactory to Contractor. Such bonds shall be furnished to Contractor within ten (10) calendar days after Subcontractor has executed this Agreement or within such other time period agreed to by Contractor in writing. In the event Subcontractor fails to furnish such bonds to Contractor within the time period as hereinabove provided, such failure shall constitute a default under this Agreement in which event Contractor shall have all of the rights and remedies provided in Article XI hereof with respect to default on the part of Subcontractor including, without limitation, the right to terminate this Agreement.

Without limiting the responsibilities of Subcontractor and its Surety under the terms of this Agreement, Subcontractor and its Surety hereby agree to promptly pay all lawful claims of subcontractors, materialmen, laborers, persons, firms or corporations for labor or services performed or materials, supplies, machinery equipment, rentals, fuels, oils, tools, appliances, insurance and other items furnished, used or consumed in connection with the prosecution of the Work provided for in said Subcontract and any and all modifications thereof, and shall indemnify and save harmless Contractor of and from all liability, loss, damage and expense, including interest, costs and attorney fees, which Contractor and/or its Surety may sustain by reason of Subcontractor's or its Surety's failure to do so.

Subcontractor and its Surety hereby agree to execute and deliver to Contractor when requested in connection with the issuance of change orders under this Agreement, Rider "A" amendments (or other documents as Contractor may require) increasing the amount (Penal Sum) of the Payment and Performance Bonds furnished by the Subcontractor. The reasonable premiums or other charges paid by the Subcontractor for the procurement of the Rider "A" amendments will be paid as a change to this Agreement.

**Severability**

**ARTICLE XXVII.** In the event that any provision or any part of a provision of this Agreement shall be finally determined to be superseded, invalid, illegal or otherwise unenforceable pursuant to applicable laws by an authority having jurisdiction, such determination shall not impair or otherwise affect the validity, legality, or enforceability of the remaining provisions or parts of provisions of this Agreement, which shall remain in full force and effect as if the unenforceable provision or part were deleted.

**Business Enterprise Compliance**

**ARTICLE XXVIII.** In the event that the Project or General Contract is subject to any federal, state, or local program(s) requiring Contractor or its subcontractors to meet certain goals or commitments with regard to the award of subcontracts or supply contracts to small and/or disadvantaged businesses, including but not limited to minority owned, woman owned, veteran owned and local businesses, then the provisions of this Article shall apply. Subcontractor acknowledges that: a) the Federal Small Business Program applies if the General Contract is a direct federal government contracts (i.e., contracts awarded by a federal executive agency); b) the Small Business Enterprise Program applies to projects that are funded in whole or in part with federal funds, including those funded through a grant awarded to the Owner; c) there are state and local programs that may apply to public projects that are funded by a state or local government; and d) all these programs have different eligibility requirements as well as different methods of counting small business, minority, and other designated categories of participation at all subcontracting levels. Subcontractor agrees that it shall fully understand and comply with the rules and regulations of all such programs to the fullest extent applicable to the General Contract, Subcontract or this Agreement.

A. If Subcontractor is or otherwise satisfies the qualifications or requirements of any of the following, or if Subcontractor has in any way represented or given Contractor reason to believe that such is the case: (a) a small business under the Federal Small Business Program (i.e., a small business, a small disadvantaged business (SDB), a HUBZone small business, a
service-disabled veteran-owned small business (SDVOSB), a veteran-owned small business (VOSB), or a women-owned small business (WOSB)) (hereinafter collectively referred to as an "SBE"); (b) a Disadvantaged Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), or Woman Owned Business Enterprise (WBE), or the functional equivalent under federal, state, or local law (hereinafter collectively referred to as a "DBE"); or (c) a category or status designated by state or local authorities which otherwise classifies or designates certain business entities, collectively referred to as Local Business Enterprises (LBES); then Subcontractor acknowledges, represents, agrees and warrants that: (i) Subcontractor in fact has such status and has obtained all required federal, state, or local certifications of such status; (ii) Contractor is relying upon such representation and status to fulfill any and all SBE, DBE or LBE goals or commitments Contractor has made to the Owner and/or a government agency or as otherwise required of Contractor; (iii) Subcontractor shall maintain its status as an SBE, DBE or LBE throughout the performance of the subcontract or purchase order; (iv) Subcontractor immediately shall notify Contractor if there is a change in Subcontractor's status as an SBE, DBE or LBE; (v) Contractor has engaged Subcontractor based on Subcontractor's representation that Subcontractor shall perform in such a manner that 100% of Subcontractor's Work and 100% of the Subcontract value shall be eligible for credit towards Contractor's goals and commitments with regard to the award of subcontracts to SBEs, DBEs and/or LBES; (vi) Subcontractor shall perform in such a manner that Contractor shall be eligible to receive credit towards Contractor's goals and commitments regarding the award of subcontracts to SBEs, DBEs, and/or LBES for 100% of the Subcontract value; (vii) Subcontractor will not engage in any effort or take any action that would prevent Contractor from receiving 100% credit; (viii) Subcontractor shall engage in a genuine commercially useful function as defined by law and shall not act as a pass-through to sub-subcontractors, suppliers, or vendors who are not SBEs, DBEs or LBES; (ix) Subcontractor will not engage in any effort to create the appearance of SBE, DBE or LBE legitimacy or participation when in fact it does not exist; and (x) if Subcontractor awards any of its work through sub-subcontract, purchase order, or otherwise, to an SBE, DBE or LBE, then Subcontractor will do so only in a manner that does not affect the ability to receive credit as described above for 100% of the Subcontract value, including awarding same only to SBE, DBE or LBE sub-subcontractors, suppliers, or vendors if and to the extent necessary to achieve this result.

B. If Subpart A of this Article is not applicable to Subcontractor, then Subcontractor acknowledges and agrees that the obligations and commitments assumed by Contractor with regard to the award of subcontracts to SBEs, DBEs and/or LBES, have likewise been assumed by Subcontractor pursuant to this Agreement, including but not limited to meeting or exceeding the same percentage or other requirements or goals for each separate category of SBE, DBE and/or LBE employment in connection with the performance of the Work and satisfying all obligations and responsibilities with respect to reporting and documenting same.

C. The provisions of this Subparagraph C. shall be applicable to all Subcontractors. If or when Subcontractor awards any of its work through sub-subcontract, purchase order, or otherwise, to an SBE, DBE or LBE, to the extent permitted or required by this Agreement, then Subcontractor further acknowledges, represents, agrees and warrants that Subcontractor shall: (i) verify that such SBE, DBE or LBE has such status and has obtained all required federal, state, or local certification of such status; (ii) require its SBE, DBE or LBE sub-subcontractors, suppliers, or vendors to maintain their status as an SBE, DBE or LBE throughout the performance of their sub-subcontract, purchase order, or other agreement; (iii) immediately notify Contractor if there is a change in a sub-subcontractor's, supplier's, or vendor's status as an SBE, DBE or LBE; (iv) require all SBE, DBE or LBE sub-subcontractors, suppliers, or vendors to engage in a genuine commercially useful function as defined by law; (v) ensure that all SBE, DBE or LBE sub-subcontractors, suppliers, or vendors are not acting as a pass-through to another sub-subcontractor, supplier, or vendor who is not a SBE, DBE or LBE; and (vi) not permit a sub-subcontractor, supplier, or vendor to engage in any effort to create the appearance of SBE, DBE or LBE legitimacy or participation when in fact it does not exist.

Subcontractor agrees that: (i) Contractor, or its authorized representative, shall have access to and the right to examine and audit all of Subcontractor's records relating to Subcontractor's Work under this Agreement including, but not limited to, lower-tier subcontracts, equipment leases, purchase orders, and other agreements with third parties; (ii) Subcontractor and its sub-subcontractors, vendors and suppliers shall submit any forms, certifications or documents required by Contractor relating to participation on the Project, regardless of whether such forms or documents have been requested or required by the Owner; (iii) failure to honor and comply with any of the terms or conditions of this Agreement and/or its failure to comply with any applicable law relating to the award of subcontracts to SBEs, DBEs and/or LBES shall constitute a material breach of this Agreement; (iv) submission by Subcontractor of a monthly requisition for payment or invoice shall constitute a certification by Subcontractor that each and every representation and warranty set forth in this Article is and remains truthful, accurate, and complete, and that Subcontractor is in full compliance with the terms and conditions of this Agreement, as of the date such requisition or invoice is submitted to Contractor; (v) Contractor may rely on these certifications in making payment to Subcontractor and in making like representations to others; (vi) Contractor shall have the right to withhold payment from Subcontractor if Contractor has reasonable grounds to believe that Subcontractor is not in full compliance with its obligations set forth in this Article; and (vii) that Subcontractor shall include a provision in all agreements with its sub-subcontractors, vendors and suppliers, whereby such sub-subcontractors, vendors and suppliers acknowledge and agree to conduct their operations and affairs in a manner that ensures that Subcontractor is not in violation of any provision in this Article and to provide forms, certifications and documents as required by Contractor or this Article.
ARTICLE XXIX. In the event that the General Contract under which this Subcontract is being issued is a General Contract between Contractor and the United States Government or an agency thereof, additional Federal Acquisition Regulation ("FAR") and agency FAR supplemental provisions are applicable to this Agreement. Such FAR and agency FAR supplemental provisions are contained on the attached document entitled Federal Supplement* and such provisions are hereby incorporated by reference herein as if set forth at length herein. Subcontractor hereby ratifies and re-affirms its Subcontractor Certifications and Disclosures that Subcontractor signed and submitted with its proposal submitted earlier to Contractor and such Certifications and Disclosures are hereby incorporated herein by reference as if set forth at length herein.

ARTICLE XXX. This Agreement constitutes the entire agreement between the parties hereto. No oral representations or other agreements have been made by Contractor except as stated in the Agreement. This Agreement may not be changed in any way except as herein provided, and no term or provision hereof may be waived by Contractor except in writing signed by its duly authorized officer or agent. Subcontractor acknowledges and represents that it has completed and submitted to Contractor a prequalification questionnaire, that all statements therein and in the attachments to such questionnaire were true, accurate and complete, and remain true, accurate and complete, and that Contractor has relied on truthfulness, accuracy and completeness of such statements and the contents of the attachments thereto in deciding to enter into this Agreement. The marginal descriptions of any term or provision of this Agreement are for convenience only and shall not be deemed to limit, restrict or alter the content, meaning or effect thereof.

The said parties, for themselves, their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of all of the terms and provisions herein contained.

In Witness Whereof the parties to these presents have hereunto set their hands as of the day and year first above written.

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Subcontractor's Federal Employer Identification Number (FEIN) SDS
Subcontractor's State Unemployment Ins. No. SDS
Subcontractor's License No. SDS
Subcontractor's State Sales Tax Registration No. SDS

* (Insert State and Register No., for State in which the Work is to be performed)
  (Insert License No., if any, for State or locality in which the Work is to be performed)
Site Furnishings—Bid Package: 32b

This Subcontract shall be identified as "Site Furnishings", and shall include but not limited to the furnishing and installation of items, as required, as identified in Specification 329300 Site & Street Furnishings, and as described herein. All work is to be performed in strict accordance with the contract documents.

Contract Documents
This Subcontractor is responsible for all bid & contract documents, drawings and specifications including, but not limited to, those listed below:
1. 2018-0112 IAAM Bid Set Project Manual (Specifications) Volumes 1 - 4 dated 06/10/19.
2. 20180615 Detyens-IAAM ESMP Approval Letter dated 06/15/2018.
3. IAAM 026113 Contaminated Material Specification

Safety

Documents & Policies:
This Contractor agrees to perform all work in compliance with the following documents and as further enumerated herein:

1. List of referenced forms and policies that are hereby specifically made part of the Contract Documents:
   a. Turner Construction Company Corporate Environmental Health & Safety Program.
   c. This Contractor to abide by all applicable Federal, State and Local Regulations for Safety including, but not limited to OSHA 1926 Rules for Construction, NFPA, ANSI and NEC.

2. General Requirements
   a. This Contractor will have at least one (1) OSHA Construction Safety 30-hr trained employee on site at all times. Two are required if contract value exceeds 5 million. Contractor may complete the 30-Hour Training via www.TurnerUniversity.com online at a cost. Subcontractor must update their 30-hour class every 2-years by completing the Safety Update Training course on Turner University. These requirements must be met prior to work starting and as a condition of Turner Brownstone's acceptance of application for payment corresponding to Contractor's mobilization.
   b. This Contractor is responsible to have their field work forces attend Turner Brownstone’s Safety Orientation at Turner Brownstone’s field office first day on the job. As new manpower arrives on the jobsite they are to attend this safety orientation prior to the start of any work activities. All contractors will comply with the Turner Brownstone Subcontractor Substance-Abuse Policy. Include cost of 10-panel testing and badging at $52.50 per test. All testing will be administered by FC Background (or agent) prior to orientation with a photo-badge issued by them. Further testing (random, suspicion, etc) will be conducted per our policy. Receipt of FC Background Service Agreement Packet is hereby acknowledged.
c. This Contractor shall schedule with Turner Brownstone a Safety pre-planning meeting prior to start of new work activities/operation. This meeting will be held to coordinate a specific safety plan for this Contractor work. Additional pre-planning meetings will be scheduled, as required for new work activities/operation during the course of the project.

d. Contractor Safety Manager Requirements are as follows:

If the subcontractor will exceed 25 employees or more on site, including sub tiers, for more than two weeks, they must provide a full time Safety Manager for the duration of their work when the workforce exceeds threshold above, who:

a) Is qualified to recognize safety hazards; and
b) Has the authority to take corrective action; and
c) Possesses current certifications in first aid, CPR and AED;
d) Possesses "Competent Person" level training in their area of expertise (such as excavation or electrical safety) and
e) Possesses a recent OSHA 30-hour card (if not within the last three years Turner Brownstone’s 2 year Safety Update Training has been completed and is up to date through Turner University); and
f) Has an academic degree in safety, CSP, ASP, or CHST designation, OR has a minimum three (3) years of prior work history as a designated construction safety manager.

At 100 employees, or when one safety manager cannot reasonably manage the workforce due to the distance between crews, provide a second safety manager.

General Requirements for Safety Managers:

The total cost of the above-mentioned safety personnel are to be borne entirely by the subcontractor. Subcontractors will submit the resumes and certifications of potential safety managers for consideration to Turner Brownstone Construction’s Safety Department for approval.

e. The contractor safety manager (when required) and corporate safety director must review Project Manual, Additional Provisions, scope, the Turner Brownstone safety program and plan, and attend the contract buyout meeting with Turner Brownstone.

f. A contractor principal is required to schedule with Turner Brownstone and visit the project quarterly for a safety inspection with Turner Brownstone staff.

g. This contractor acknowledges receipt of the Turner Brownstone Subcontractor Safety Submittal Form. This form shall be completed in its entirety and submitted to Turner Brownstone Safety for review prior to mobilizing to the site. All referenced documents must be attached to the form.

h. This contractor acknowledges that it must deliver the following training, at a minimum, when it applies to its own employees and sub-tiers, and provide Turner Brownstone (upon request) with documentation of:

- Fall Protection Training (all employees)
- Fall Protection Competent Person for applicable supervision
• Scaffold Safety Training (per OSHA)
• Scaffold Competent Person for applicable supervision
• 1st Aid/CPR (current) for at least two on-site employees
• Specific training will be required to operate any equipment.

Other OSHA-required training may apply. Please review Turner Brownstone Subcontractor Safety Submittal Form as well.

i. Turner Brownstone requires all contractors using cranes to have a 3rd-party inspection completed on site after the crane is set up, prior to use, and quarterly thereafter. This excludes small 5 ton or less vendor-owned boom trucks making sporadic drywall and brick deliveries. All crane operators must be currently certified by NCCCO, CIC or NCCER for the type of crane being used and have documented experience on the type of crane to be used. This includes deliveries to the site. Review additional crane and rigging requirements in the Turner Brownstone Site Safety Plan.

j. This project will enforce Turner Brownstone's "Nothing Hits the Floor" Policy. All trash, debris, and scrap materials are to be placed immediately upon creation into contractor-provided rolling trash hoppers, forklift-mounted hoppers, or other trash collection receptacles that do not require workers to lift and carry. Upon filling any such receptacle, this contractor must remove all of its trash/debris and recyclables from the building to the agreed upon roll-off or dumpster. Provide an ample number of trash receptacles to allow each crew/team that generates waste or recyclables to have one. No "piling" will be allowed on the floors. Construction materials, job-boxes and tools must be stored/staged in approved areas, and never in walkways or stairways. Cords, hoses and welding leads must be kept off the floor at least 8 feet high in walkways, aisles, stairs and access points. Provide non-conductive hanger mechanisms or cord/hose pole-stands.

k. Lay-down and storage areas are extremely limited on site. Contractors are not to bring more materials onto site than they will install during their shift. All materials stored in the building must be staged on wheels to allow for quick and easy relocation. All hole covers must be low-profile and have beveled edges (or be flush-mount where instructed by Turner Brownstone) while still meeting the intent of the OSHA standard for fall protection. This will allow for easy movement of materials on wheels and prevent trip hazards as well. Where feasible, use manufactured hole-covers (examples might include "Paragon" covers, or "The Hole Solution" from Buildings and Matters LLC, or equivalent).

l. "Ladders Last" Policy: Ladders must be considered as a last means of access and egress for all work, and only be used where no other means is possible, with preference given to safer means of access. The primary tool of choice for safely accessing elevated areas is the Mobile Elevated Work Platform (Scissor, Mast or Aerial Lift). When a MEWP cannot be used due to floor load capacity or other condition making it infeasible, other safer means must be selected to include, but not be limited to: JLG LiftPod, EcoLift, "PowerSnappy", MEC-19 lifts, stairs, rolling stairs, scaffolds and "Tele-towers," etc. You must provide Turner Brownstone with proof of employee training for whichever method is chosen.

Prior to beginning work, the competent person for the company needing to perform elevated work shall evaluate all tasks that require individuals to work at elevated heights. It is the expectation that these tasks will be performed using methods other than a ladder.
If it is determined that a ladder is the only means of performing the job at elevated height, the Little Giant “Aerial Cage” ladder should be considered first. Additionally, a Ladders Last Permit must be submitted daily prior to starting the task, along with the PTP. The signed (by Turner Brownstone) Permit must then be affixed to an Type 1A (or 1AA) ladder only. Other ladder types are not allowed. At no time will a ladder be on site without a current permit and safety checklist.

It may be possible to plan and sequence work in a way that minimizes the number of times that a worker has to leave the floor working level via ladder or other means to access other elevations, which often raises the frequency and severity of risk exposure. During Job Safety Analyses and pre-planning, give preference to methods and sequencing that reduce elevated exposure.

Use of job-built ladders is prohibited on Turner Brownstone Construction Projects. Temporary stair towers or prefabricated stairs shall be used to access different building levels. The same rule is applied to frame and system-type scaffolds. No ladders for access.

When working at a height greater than 4 feet, 100% fall protection is also required. A self-retracting lanyard (SRL) is the only option in this case. Podium ladders shall be the ladder of choice on Turner Brownstone Construction projects when a step-ladder must be used. Fall protection is required when standing on the platform.

m. The use of powder-actuated tools with cartridges containing lead or barium is prohibited on Turner Brownstone projects unless the contractor complies fully with the OSHA lead standard in construction and applicable EPA requirements.

n. All contractors must be present at the daily pre-shift 8-minute stretch and flex regimen led by Turner Brownstone Construction. All employees are to be paid for this mandatory attendance.

o. BUILDING L.I.F.E.® SAFETY PROGRAM

The subcontractor agrees to participate in the Turner Brownstone Continuous Safety Improvement Process known as Building L.I.F.E. – Living Injury Free Everyday® Program Goals and Objectives:

• Implementation of a safety improvement process, focused on continuous Risk and Systems Analysis.
• Increase engagement & involvement of front line workers in our safety processes.
• Promote use of positive reinforcement & feedback as a means to influence safe behavior.

The subcontractor agrees to participate in initial training and implementation associated with this program. Training will include but not be limited to management and frontline supervisory staff. This will typically happen at the Preconstruction Meeting, but will also happen when new supervisory staff is assigned.
Hazard Analysis must be completed on the Turner Brownstone “Building LIFE JHA” form and reviewed with this contractor’s work force as they are oriented on site. All subs are required to perform a periodic review of their work to ensure the adequacy of their work plans and JHAs. This review is a Turner Brownstone Lean Process called a “Rapid Improvement Event” and is typically completed by a team of 2 to 4 of this contractor’s front-line employees (non-supervisory). After the review, the team will make suggestions to this contractor’s management and Turner Brownstone Construction’s on ways to improve safety, logistics, material-handling, minimize waste, etc. which could lead to cost savings for this contractor. This contractor should make every effort to accommodate the suggestions where feasible. Each task/JHA will require a Rapid Improvement Event approximately one week after the task begins, and again at approximately 60 and 120 days only if the specific task is still being done by the contractor. The contractor should allow two to four hours for each Rapid Improvement Event.

Once a month, Turner Brownstone will select 5 workers from the entire project workforce to attend a free lunch to discuss safety. When requested, ensure your employee(s) attends during the lunchtime specified. This is typically a half-hour.

Provide one dry-erase board (no smaller than 4’x4’) with markers for each of your crews to use during morning safety huddles. Crew size should not exceed 10 people per foremen unless approved by Turner Brownstone Project Manager.

Once a month, Turner Brownstone may invite 20% of site employees to complete a five minute 10-question Safety Perception Survey (Y/N questions).

Schedule

1. Subcontractor and Turner Brownstone shall work together to establish the most efficient sequencing of the project, and a schedule for handling shop drawings by sequence shall be established.

2. Subcontractor shall deliver shop drawings for approval in packages that allow complete approval of a sequence in accordance with the agreed to schedule. Failure to meet the agreed schedule will jeopardize the plan review process and may lead to delays in approval. Subcontractor shall be held responsible for any delays in approval that result from missing submittal schedules and/or failure to provide submittals that can be approved.

3. See Turner Brownstone Bid Manual for the Project Schedule. Turner Brownstone’s Project Superintendent and the Subcontractors will further develop the detail schedule activities into a working schedule via Last Planner® scheduling techniques. Each Subcontractor will perform their work in accordance with the requirements of Turner Brownstone’s Schedule including work flow, which may change from time to time in order to accommodate changes in sequencing of construction, as required by Turner Brownstone. (Preparation
of shop drawings and fabrication lead times or specific milestones as deemed necessary will be included. Maintaining the milestone and durations delineated in the schedule is critical. Any deviation from the original schedule and any subsequent schedules shall not form the basis for any increase or decrease in Subcontract Price.

4. The Subcontractor recognizes that time is of the essence for this Contract and has included an assertive, expeditious approach to assure schedule compliance. The Subcontractor has included all costs required to achieve the schedule and agrees that no additional overtime or premium payments shall be made for schedule compliance. All overtime or expediting costs to maintain the schedule are included in this subcontract price. All expediting costs of other trades caused by this Subcontractor’s failure to meet and maintain the schedule will be deducted from this subcontract price.

5. Subcontractor recognizes that it is imperative that the Work proceed uninterrupted and shall endeavor to prevent and shall promptly cure any work stoppage caused by any labor or jurisdictional disputes arising out of the assignment of work to be performed by the Subcontractor or its subcontractors.

6. The Subcontractor acknowledges and understands that the ability to complete the Work in the least amount of time is included in this Subcontract and Scope of Work.

7. Subcontractor shall maintain sufficient manpower, materials and equipment at the jobsite to complete this Work so that the project schedule will not be negatively affected. Subcontractor shall immediately supplement his resources, if at any point this Subcontractor does not maintain this cycle sufficient for schedule recovery.

8. If and as Subcontractor’s material becomes available and/or work fronts become available, Subcontractor agrees to provide additional crews to pursue multiple work fronts at no additional cost to Turner Brownstone in an effort to complete the Work in the least amount of time.

9. See Project Conditions, Section 4 for additional scheduling requirements.

**Work Included**

**General**

10. The Work of this Subcontract shall include all the work normally associated with a typical “Site Furnishings” scope. All work outlined below is incorporated as part of this agreement and included in the Subcontract. One contracting entity shall be responsible for ALL the Work of this Subcontract even if that requires elements of the work to be sub-subcontracted. This Subcontractor shall identify work that is being subcontracted and Turner Brownstone reserves the right to approve sub-subcontractors.

11. This Scope of Work includes the scope of work identified in the Bid Manual as "4.PROJECT CONDITIONS FOR ALL SUBCONTRACTORS" including all references to parking, drug testing, safety, owner training and extended warranties.
12. This Subcontractor shall provide all supervision, management, labor, materials, equipment, cartage, hoisting, and everything else necessary to complete this Scope of Work as defined in the bidding documents and outlined herein.

13. This Subcontractor shall include all sales and use taxes. Subcontractor is responsible for any taxes not specifically exempted elsewhere.

14. Subcontractor is responsible for all off-site insurances.

15. Include all required systems and accessories indicated by the Contract Documents. The Work description, conditions, and all attachments are intended to cover all the Work. Work includes any and all equipment, labor, materials and services not indicated herein, but which would be necessary to complete any or all of the Work in a proper, substantial and workmanlike manner, and as required to make a system function as intended, and is included in the Work without additional cost. Any intended omissions or exceptions to the requirements for this scope had been conveyed in writing with the bid submission. Therefore, adjustments to the Subcontract due to absence of details, sizes, components or any other information required for complete and fully operational systems will not be accepted.

16. Textura: Unless otherwise directed or authorized, in writing, by Turner Construction, compile all Payment Applications and all documents (including but not limited to lien waivers, sworn statements, and the like) in electronic format and submit to Turner Construction using the Textura-CPM™ payment management system. Subcontractors shall be responsible for the fees and costs owed and associated with their use of the Textura-CPM™ payment management system. Fees calculated at 0.22% (22 basis points) of the Subcontract value up to $1,704,545 and a maximum fee of $3,750 for Subcontract values above $1,704,545

17. Professional Liability Insurance: For specific scopes of work where project specifications require stamped and certified design drawings, the Professional Engineer hired by this Subcontractor shall assume professional responsibility for any design work required in this Subcontract including but not limited Structural and Life Safety design components.
   a. This Subcontractor will include PRACTICE (OFFICE) PROFESSIONAL LIABILITY INSURANCE (E&O) for protection from claims arising out of the performance of any design or engineering services performed or furnished in connection with the Work caused by any negligent act, error or omission for which Provider and/or the Provider’s Architect(s) and/or Engineer(s) may become legally liable. Such professional liability insurance shall provide for coverage as follows:
      i. Limit of liability - $3,000,000 per occurrence / $3,000,000 aggregate
      ii. Deductible Amount - Not more than $50,000 (payable by the Subcontractor)
   b. Subcontractor agrees that they will maintain [or cause to be maintained] this Professional Liability coverage for the statute of limitations in effect at the state where the project is located. Notify Turner Brownstone of any changes in the policy in subsequent years and will ensure that the policy will not provide less limits or coverage than the current policy.
c. Sixty (60) days prior written notice to Turner Brownstone of cancellation of such insurance or any material change with respect thereof.

d. Such professional liability insurance shall be in a form and from a company acceptable to Turner Brownstone and policy shall be available for review by Turner Brownstone as requested.

Additional Safety
18. All personnel involved in rigging must have documentation of training. At least one qualified rigger must be designated as rigging supervisor to oversee, inspect and sign-off on each pick.

19. As part of the safety submittal package, submit a Materials Handling Plan to the Turner Brownstone Safety Manager describing how materials will be offloaded from trucks, distributed to their final installation locations. Special attention must be given to manual material handling tasks and preventing soft-tissue injuries. Use mechanical lifting aids for all material handling unless infeasible. No employee may lift more than 40lbs in any event without mechanical or other personnel assistance.

20. This Subcontractor shall provide and require the use of level 4 or 5 cut-resistant gloves by all workers. Gloves should also have gripping dots or dipped palms.

21. Powder-actuated tools shall not be used on the project unless the cartridges are free of lead and beryllium, or the contractor provides an exposure assessment completed by a certified industrial hygienist showing lead exposures to be experienced are below the OSHA action-levels and established threshold limit values.

22. All site activities that may create dust and crystalline silica exposures must be done using engineering controls/methods that control dust and crystalline silica exposure levels below OSHA and ACGIH Action Levels and Threshold Limit Values (TLV's). These might include wet methods, HEPA vacuums, shrouds, etc. For all operations not fitting OSHA Silica Table 1, provide air sampling data confirming your work method does not expose workers above the action level for crystalline silica unless respirators will be used. Our goal is to not have to use respirators at all. All heavy equipment brought on site must have enclosed cabs with filtered air.

Preconstruction
23. This Subcontractor shall participate in preconstruction planning meetings as directed by Turner Brownstone.

24. Shop drawings shall coordinate with other materials, such as, but not limited to, concrete footings and grade beams and site utilities.

25. Maintain accurate as-built drawings from the beginning and throughout the duration of the project. Submit final as-built drawings within two weeks of the completion of aggregate pier installation.
26. Include complete coordination with other subcontractors as may be required for the proper installation of this work, specifically include coordination as a minimum with the following scopes of work:
   a. Site Work
   b. Concrete
   c. Landscaping

Site Investigation
27. Bidders shall thoroughly review the soils investigation reports available to determine the conditions that may be expected whether visible or hidden. The bid shall be based on unclassified soils and unlimited responsibility for dealing with buried obstructions unless specified otherwise or the Bidder specifically lists the limits of the bid.

28. This Subcontractor shall take precautions to verify that there are no buried utilities or other obstructions in the way of drilling. This Subcontractor shall be responsible for any damages despite drilling where staked if there is any way he could have known that there was a potential conflict.

Protection of the Site
29. This Subcontractor will be responsible for any and all costs necessary for the complete repair of any damages to the existing structures or elements scheduled to remain that may result from the Work.

30. Notify Turner Brownstone immediately of any conflicts with the installation of the Work.

Site Furnishings
31. Unless otherwise directed, this Subcontractor should assume that foundations, where indicated, will be in place prior to installation of items included in this Bid Package.

32. Coordinate with the concrete subcontractor for embeds required for this work.

33. SF6 Kneeling Figures are to be purchased and installed by this subcontractor.

34. Provide coordination for the delivery of the SF6 Kneeling Figures.

35. For cranes used on site, a third-party inspection shall be required prior to use. Documentation shall be provided to Turner Brownstone not less than 48 hours prior to crane mobilization for review by appropriate safety parties.

36. Include one (1) mobilizations/demobilizations. Coordinate phasing and schedule with Turner Brownstone's Superintendent.

37. This Subcontractor shall have a dedicated quality control representative to verify and report all quality control installation procedures per the Contract Documents.
Work Excluded
1. Purchasing of Items designated as furnished by owner.
2. SF2 Sweetgrass Baskets – DELETED FROM PROJECT

Unit Pricing
The following unit prices shall apply for additions and deductions in scope. Unit Prices shall include all tax, engineering, bond fees, etc. for a complete cost of the work. Include overhead and profit in these prices. Indicate the range for which the unit is to be applied

<table>
<thead>
<tr>
<th>Description</th>
<th>Add</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Carpenter</td>
<td>$45/hr</td>
<td></td>
</tr>
<tr>
<td>Laborer (unskilled)</td>
<td>$15/hr</td>
<td></td>
</tr>
<tr>
<td>Operator</td>
<td>$23/hr</td>
<td></td>
</tr>
<tr>
<td>Overtime</td>
<td></td>
<td>Time in a ½</td>
</tr>
</tbody>
</table>

Alternates
It is understood and agreed that the following additions or deductions may be made to the Contract Price. No commitment for material or other costs related to these alternate prices can be made without Turner Brownstone’s written authorization. Alternate prices include overhead, profit, insurance, tax, engineering, small tools, safety, bond fees, and any other miscellaneous costs for a complete cost of work.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
</table>
Pricing Summary

On the Bid Form under Base Bid, this Subcontractor shall split the total sum bid for this Bid Package into the following breakouts for accounting purposes only: [Distribute all general costs, overhead, and profit, proportionally then provide quantity and material cost information – install value is total less material value].

<table>
<thead>
<tr>
<th>Description</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>QCP Kneeling Figure Manufacturing – (1) Mold at $6,300/ea</td>
<td>$6,300.00</td>
</tr>
<tr>
<td>QCP Kneeling Figure Manufacturing – (5) Figures at $1,801/ea</td>
<td>$9,005.00</td>
</tr>
<tr>
<td>QCP Kneeling Figure Manufacturing – (5) Mounting Accessories at $450/ea</td>
<td>$2,250.00</td>
</tr>
<tr>
<td>Installaton Equipment – (1) Forklift at $1,071.00/wk</td>
<td>$2,142.00</td>
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<tr>
<td>Installaton Equipment – (1) Misc Tools, Equip, PPE at $450/wk</td>
<td>$450.00</td>
</tr>
<tr>
<td>Labor - 3-4 Workers + Operator $4,286.00/wk</td>
<td>$8,572.00</td>
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<tr>
<td>Subtotal</td>
<td>$28,719.00</td>
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<tr>
<td>OH&amp;P @20%</td>
<td>$5,744.00</td>
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<tr>
<td>Freight - Allowance of $5,000.00 against actual cost</td>
<td>$5,000.00</td>
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<tr>
<td>Total Subcontract Amount</td>
<td>$39,463.00</td>
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### CO 16

#### City Changes

<table>
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<tr>
<th>Description</th>
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<tbody>
<tr>
<td>COR 178.2 Additional Changes City Required</td>
<td>Line 132</td>
</tr>
<tr>
<td>SE corner repairs</td>
<td>($15,000.00)</td>
</tr>
<tr>
<td>COR 180.1 Landscaping Changes North Side</td>
<td>($10,795.00)</td>
</tr>
<tr>
<td>COR 180.1 Northside fence</td>
<td>($15,746.00)</td>
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<tr>
<td><strong>Subtotal for City Changes</strong></td>
<td>($41,541.00)</td>
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#### IAAM

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>COR #113 - Bulletin 22 Fire Alarm/ Security Changes</td>
<td>($41,493.00)</td>
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<tr>
<td>COR #118 - Bulletin 21, 21.1, 21.2 Security Cameras</td>
<td>($44,123.00)</td>
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<tr>
<td>COR #131 - Granite Etching</td>
<td>($57,076.00)</td>
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<tr>
<td>COR 143 Kitchen FRP to Stainless Steel</td>
<td>($6,898.00)</td>
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<tr>
<td>COR 163 Stainless Steel Etching</td>
<td>($141,671.00)</td>
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<tr>
<td>COR 164 Camera- Model Change</td>
<td>REJECTED</td>
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<tr>
<td>COR 165 Data Cost for RFI 579</td>
<td>($3,163.00)</td>
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<tr>
<td>COR 166 Intrusion Detection - JCI</td>
<td>($10,363.00)</td>
</tr>
<tr>
<td>COR 180.2 Site concrete/Moss frames</td>
<td>($18,727.00)</td>
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<tr>
<td>COR 180.2 Security programming</td>
<td>($7,016.00)</td>
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<tr>
<td><strong>Subtotal for IAAM Changes</strong></td>
<td>($330,530.00)</td>
</tr>
</tbody>
</table>

City Change Orders (line 135) (increase) | $41,541.00
IAAM Change Orders (line 149) (Increase) | $330,530.00
**CO 16 Total** | $372,071.00
Current GMP Amount (C.O.15) (line 124) | $61,521,929.00
**New GMP Total (C.O.16)** | $61,894,000.00
To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 178.2

Change Order Proposal Review Form

Contract: Construction

Description of work to be performed: City Requested - Changes to South East Corner
This change is associated with the labor and materials for the corrections to the southeast corner of the project. Due to the tide the soil on the south east corner will be washed out very quickly. The sea wall design doesn’t extend to the full extent of the project site, therefore new solution had to be implemented to stop the washing out of the soil. Solution was provided by the architecture and engineering team as requested by the owner.

Justification: A - Customer Requested Change

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $15,000.00 Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

(Indicate Reason for Change Proposal)

Proposal Requested by: (Circle One)
- (NO) (YES)

Decision needed by: February 24, 2022

Approved:
- Rick Holt, Cumming Corp.
- Robert Faust, Cumming Corp.
- Edmund V. Most, City of Charleston
- Bernard Costantino, Moody Nolan

(Circle One)
Date Submitted:  **February 15, 2022**

To:  Edmund Most  
City of Charleston

Re:  **International African American Muesum**

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide additional Scopes of work (per Back Sheet) as Requested by the owner.</th>
</tr>
</thead>
</table>

|--------------|-----------------|-------------------|----------------------|--------------|

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or <strong>Firm Fixed Unit Pricing</strong> for Trade Contractors - See Detailed Estimates</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
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</table>

<table>
<thead>
<tr>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
<th>Work Authorization is Requested By:</th>
</tr>
</thead>
</table>

Submitted By:  **TURNER BROWNSTONE**  
Contractor:  
Winner Lewis  
Project Engineer  
Dated  
02/15/2022  

Requested Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Reviewed By:  Program Manager:  **CUMMING**  
Dated

Authorized Action:  
Authorized to Proceed While Pricing  
Price Only  
Do Not Proceed or Price

Approved By:  Owner:  **City of Charleston**  
Dated

<table>
<thead>
<tr>
<th>Amount Requested</th>
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<tr>
<td>$ 45,000</td>
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# International African American Muesum

## General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
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<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
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<table>
<thead>
<tr>
<th>Item</th>
<th>Description of Work</th>
<th>SUBTOTAL</th>
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</thead>
<tbody>
<tr>
<td>A8</td>
<td>CCIP</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
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</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
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<tr>
<td></td>
<td>Performance and Payment Bond</td>
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<tr>
<td>A11</td>
<td>Procore</td>
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<tr>
<td>A14</td>
<td>Overhead and Profit</td>
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**ESTIMATE TOTAL** $45,000
## GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’s)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
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## TRADE DIRECTS

<table>
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<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
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<tbody>
<tr>
<td>Additional Scope of Work</td>
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</tr>
<tr>
<td>1. Emergency Lights Change in Drawing Requirements</td>
<td>$12,000.00</td>
<td>1 LS</td>
<td>$12,000.00</td>
</tr>
<tr>
<td>2. Catwalk Added Gate</td>
<td>$8,000.00</td>
<td>1 LS</td>
<td>$8,000.00</td>
</tr>
<tr>
<td>3. Atrium Lower Stair Rail</td>
<td>$10,000.00</td>
<td>1 LS</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>4. Landscape and Hardscape Changes Southeast corner.</td>
<td>$15,000.00</td>
<td>1 LS</td>
<td>$15,000.00</td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** $45,000
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Project: CP 1425 International African American Museum  
Contract: Turner Construction Company  
Proposal No.: Change Order Request No. 180.1  
Proposal No.: Change Order Request No. 180.1  
Contract: Construction  

**Description of work to be performed:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Customer Requested Change</td>
<td>This change is associated with the materials and labor for the scope added by the City of Charleston</td>
</tr>
<tr>
<td>B - Code/Regulatory Agency Required Change</td>
<td>This request incorporates landscaping changes on the north side of the project per the direction of Parks Dep.</td>
</tr>
<tr>
<td>C - Errors and Omissions</td>
<td>The second change is for the additional fence needed around the pump house. City of Charleston Storm Water Management requested additional space to be provided between the transformer for the pump station and the new project fence.</td>
</tr>
<tr>
<td>D - Replacing Unsuitable Soils</td>
<td></td>
</tr>
<tr>
<td>E - Soils Related Change Other</td>
<td></td>
</tr>
<tr>
<td>F - Unforeseen Conditions</td>
<td></td>
</tr>
<tr>
<td>G - Time Related Change</td>
<td></td>
</tr>
<tr>
<td>H - Liquidated Damages</td>
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</tr>
<tr>
<td>I - Value Engineering Change</td>
<td></td>
</tr>
<tr>
<td>J - Exercising Pre-Priced Option (Allowance)</td>
<td></td>
</tr>
<tr>
<td>K - Accounting Error</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Additional Fence Northside of Building</td>
<td>$15,746.00</td>
</tr>
<tr>
<td>Landscaping Northside</td>
<td>$10,795.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$26,541.00</strong></td>
</tr>
</tbody>
</table>

**Justification:** A - Customer Requested Change

**Attachments:**  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

**Proposal Cost (not to exceed):** $26,541.00  
**Time Extension Requested:**  
**Time Extension Recommended:**  

**Special Circumstances:**  

**Consequence of Rejection:**  

**Comments by Supervisor:**  

**Approved:**  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantino, Moody Nolan

**Decision needed by:** February 24, 2022  
**(NO) (YES)**  
**(Circle One)**  
Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide additional Scopes of work (per Back Sheet) as Requested by the owner.


Pricing: [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates [ ] ROM Estimate of GR's & Insurances [ ] ROM Estimate for Entire PCO

Time Impact: [ ] Evaluating Potential for Time Impact [ ] Evaluated - NO TIME IMPACT [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Work has been Completed [ ] Work Has commenced &/or is Ongoing [ ] Work Authorization is Requested By:

Price

Only

Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

Authorized to Proceed While Pricing

Price Only

Do Not Proceed or Price

$26,541.00

$52,284

$52,284

$26,541.00
<table>
<thead>
<tr>
<th>Item</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’S)</td>
<td>MATERIAL’S &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
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<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
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<table>
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<tr>
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<th>MATERIAL’S &amp; EQUIPMENT</th>
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<td>A3</td>
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<tr>
<td>A9</td>
<td>0.012</td>
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</tr>
<tr>
<td>A14</td>
<td>0.84%</td>
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<tr>
<td>A11</td>
<td>0.00732</td>
<td>= $0.00</td>
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<tr>
<td>A14</td>
<td>0.04500%</td>
<td>= $0.00</td>
</tr>
<tr>
<td>A15</td>
<td>3.25%</td>
<td>= $0.00</td>
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ESTIMATE TOTAL $52,284
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
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<th>RATE</th>
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<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
</tr>
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<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
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### TRADE DIRECTS

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<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNIT</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
<th>COMMENTS</th>
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</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Fence Northside of building</td>
<td>$15,746.00</td>
<td>1</td>
<td>LS</td>
<td>$15,746.00</td>
<td></td>
<td></td>
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<tr>
<td>Concrete Moss Frames</td>
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<td>$18,727.00</td>
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<tr>
<td>Security Programming</td>
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<td>$7,016.00</td>
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<tr>
<td>Landscaping Northside</td>
<td>$10,795.00</td>
<td>1</td>
<td>LS</td>
<td>$10,795.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total 26,541.00**

**DIRECT WORK SUBTOTAL** $52,284
Bob, Per our Conversation yesterday here is the break of your request.

Additional Scope Items

- Landscape – 10,795.00
- Security Temp Programming 7,016.00
- Northside Fence 15,746.00
- Framing / Drywall / Painting Door Hardware 130,475.00
- Final Soil Removals & Trench Drain add 211,577.00
- Site Concrete & Moss Frame Foundation Changes 18,727.00

Work Not Included – Pricing All Most Complete for these items.

- Elevator Emergency Power Changes Approx 12K
- Wood at Walk Ways 120 – 180K
- Curb At Fire Lane Approx 15K
- Cat Walk Gate Approx 8K
- Lower Atrium Stair Railing Approx 10K
- South East Corner Approx 15K
- Steam TBD

Thanks
Walt

From: Robert H. Faust <bfaust@cumming-group.com>
Sent: Monday, January 17, 2022 9:16 AM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>
Cc: Most, Edmund <moste@charleston-sc.gov>; Mike Risteski <mristeski@cumming-group.com>
Subject: FW: GMP Dollar Amount

EXTERNAL EMAIL - Please Handle Cautiously

Thanks Walt,

We will need a breakdown of those 1st six items you list as to be included in the GMP. We will also need the breakdown of those 6 items that you indicate as not included in the proposed settlement number. We will review the letter with the City this week and have a response for you.
Thanks,

Bob

---

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Friday, January 14, 2022 4:30 PM
To: Robert H. Faust <bfaust@cumming-group.com>
Subject: GMP Dollar Amount

EXTERNAL EMAIL:  Use caution with any response, links, or attachments.

Bob,

See Attached letter concerning the GMP dollars as discussed earlier today.

Thanks

Walt

---

Walter Lewis  |  Project Manager
Turner Construction Company
Mobile: 704.936.6991
Email: wlewis@tcco.com
To: Edmund V. Most
From: Mike Risteski
Date: 10/7/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 113 R
Contract: Construction

Description of work to be performed: Security, Fire Wall Changes - Bulletin 22

This change is associated with the material and labor to execute all changes captured by Bulletin 22
This buleting changed the door hardware specification, changes to power for door alarm,
fire alarm relay per door ahardware coordination and multiple security camera changes.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $41,493.00
Owner Contingency Allow. Bal.

Time Extension Requested:
Time Extension Recommended:

Proposal Cost (not to exceed): $41,493.00
Owner Contingency Allow. Bal.

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

(YES) (NO) (Circle One)

Decision needed by: October 7, 2021

Approved:
Rick Holt, Cumming Corp.

(YES) (NO) (Circle One)

(YES) (NO) (Circle One)

(YES) (NO) (Circle One)

(YES) (NO) (Circle One)

(YES) (NO) (Circle One)

Mike Risteski, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Work Associated Bulletin 22 R1 - See additional Comments

Reason:  
- Owner Directive [X]  
- Code / Regulatory  
- Unforeseen Condition  
- Design Issue

Pricing:  
- ROM Estimate of GR’s & Insurances  
- ROM Estimate for Entire PCO  
- Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates  
- Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:  
- Evaluating Potential for Time Impact [X]  
- Evaluated - NO TIME IMPACT  
- Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Work Authorization is Requested By:

Submitted By:  
- Contractor: TURNER BROWNSTONE  
- Walter Lewis, Project Engineer  
- 09/21/2021  
- Amount Requested: $41,493

Reviewed By:  
- Program Manager: CUMMING  
- / /  
- Dated

Approved By:  
- Owner: City of Charleston  
- Edmund Most  
- / /  
- Amount Approved: $41,493
<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td></td>
<td>SUBTOTAL TRADE DIRECTS</td>
</tr>
</tbody>
</table>

| Item # | CCIP @ 2.50% = $954.15 | Subguard @ 0.012 = $457.99 | Builders Risk @ 0.84% = $320.59 | Performance and Payment Bond @ 0.00732 = $279.38 | Procore @ 0.04500% = $17.17 | Overhead and Profit @ 3.25% = $1,297.27 |

ESTIMATE TOTAL $41,493
## GENERAL REQUIREMENTS (GR’s) & GENERAL CONDITIONS (GC’s)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’s)</td>
<td></td>
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<td>$0</td>
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</table>

## TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Watson</td>
<td>$35,540.00</td>
<td>LS</td>
<td>1</td>
<td>$35,540.00</td>
</tr>
<tr>
<td>2 Coastal Millwork</td>
<td>$2,626.00</td>
<td>LS</td>
<td>1</td>
<td>$2,626.00</td>
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<td>3</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>$38,166</td>
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</table>

DIRECT WORK SUBTOTAL | $38,166
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 22 as outlined on the back up page. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:
- [x] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [ ] Design Issue

Pricing:
- [ ] ROM Estimate of GR’s & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
- [x] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] Work Authorization is Requested By:

Submitted By: Contractor: TURNER BROWNSTONE

04/15/2021

$72,894

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Dated

Approved By: Owner: City of Charleston

Dated

$72,894

Amount Approved
### International African American Museum

**General Summary of the Estimate**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

| A4     | SUBTOTAL TRADE DIRECTS                                   | $67,050                    |
| A5     |                                                          |                            |
| A6     |                                                          |                            |
| A7     |                                                          |                            |

<table>
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</thead>
<tbody>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>@ 2.50%</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>@ 0.012</td>
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<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>@ 0.84%</td>
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<tr>
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<td>Performance and Payment Bond</td>
<td>@ 0.00732</td>
</tr>
<tr>
<td>A11</td>
<td></td>
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<tr>
<td>A14</td>
<td>Procore</td>
<td>@ 0.04500%</td>
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<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>@ 3.25%</td>
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</table>

**SUBTOTAL** $67,050

**ESTIMATE TOTAL** $72,894

O&P on price before Subcontractor O&P
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
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<th>DESCRIPTION</th>
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### TRADE DIRECTS

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<th>TOTAL</th>
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<tr>
<td>Additional Scope of Work</td>
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<td>1 Watson Bulletin 22 Changes</td>
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<td>LS</td>
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<tr>
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<td>1</td>
<td>LS</td>
<td>$2,626.00</td>
<td></td>
<td></td>
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<tr>
<td>3 Cook and Boardman - Cost covered in COR 87</td>
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<td>1</td>
<td>LS</td>
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$67,050

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<tr>
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<tbody>
<tr>
<td>DIRECT WORK SUBTOTAL   $67,050</td>
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</table>
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
Pricing per Bulletin #22 Documents.
Adjust camera and security locations per Bulletin #22. No cost for base contract adjustments prior to rough in.
Level 2B - 2 additional camera locations.
Level 3A - 3 additional camera locations.
Provide new power circuits to door alarms at V204 and V205.
Furnish additional 120 volt, 20 amp circuit breakers for new door alarm power circuits. Per designated panel.
Level 2 - (2) additional security doors’ raceways and fire alarm relay.
Fire alarm device relocation Level 1 ceiling.
Includes additional 3” EMT conduit with compression fittings for low voltage raceways and support racks.
This change order includes overtime for this work scope only.
All low voltage cabling, equipemnt and devices furnished and installed by others.
We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 8 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_17>.

Itemized Breakdown

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<tr>
<th>System</th>
<th>Material($)</th>
<th>Labor Hrs</th>
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<tbody>
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<td>SECURITY AND FIRE ALARM</td>
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<td>LARGE LOW VOLTAGE RACEWAY</td>
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<td>**Total</td>
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<td>**271.64</td>
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BRANCH WIRING

ORIGINAL

Arup: Bulletin 22
doent call for 3" EMT
### PROPOSED CHANGE ORDER

**WATSON ELECTRICAL CONSTRUCTION CO.**  
3215 Fortune Dr.  
Suite 109  
Charleston, SC 29418

Client Address:  
Turner Construction / Brownstone Management and Design  
4055 Faber Place  
Suite 202  
North Charleston, South Carolina 29405

- **Date:** 10/16/2020  
- **Project Name:** IAAM Museum  
- **Project Number:** IAAM Museum  
- **Page Number:** 2

#### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
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<tbody>
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<td>3/4&quot; COUPLING COMP STL - EMT</td>
<td>28</td>
<td>118.87</td>
<td>11.91</td>
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<tr>
<td>1/2 OR 3/4&quot; CONDUIT SNAP CLOSE CLIP W/ 1/4-20 THRD HOLE</td>
<td>30</td>
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<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT W/ 9/32&quot; MNTG HOLE</td>
<td>6</td>
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<tr>
<td>#10 THHN SOLID BLACK</td>
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<td>WIRE CONN RED</td>
<td>24</td>
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<tr>
<td>4x 1/2&quot; SQ BOX COMB KO</td>
<td>6</td>
<td>88.14</td>
<td>2.42</td>
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<tr>
<td>4&quot; SQ BLANK COVER</td>
<td>6</td>
<td>32.78</td>
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#### SECURITY AND FIRE ALARM

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<th>Total Hrs.</th>
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<tbody>
<tr>
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<td>1&quot; CONDUIT - EMT</td>
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<td>3/4&quot; CONN SS STL - EMT</td>
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<tr>
<td>1/2&quot; JET LINE PULL KIT</td>
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<td>0.00</td>
<td>1.23</td>
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<tr>
<td>1/8&quot; POLYTWINEN</td>
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<td>0.31</td>
<td>0.00</td>
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<tr>
<td>4 1/4 116x2 1/8&quot; SQ BOX 1&quot; KO</td>
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<td>100.95</td>
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<td>4 11/16&quot; SQ BLANK COVER</td>
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<td>1G MSNRY BOX 3 1/2&quot; DEEP</td>
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<td>2G MSNRY BOX 3 1/2&quot; DEEP</td>
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<tr>
<td>1/4&quot; THREADED ROD - PLTD</td>
<td>35</td>
<td>24.05</td>
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<tr>
<td>1/4-20 HEX NUT - PLTD STI</td>
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<td>MONITOR MODULE MULTIPLEX</td>
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<td>2.00</td>
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#### LARGE LOW VOLTAGE RACEWAY

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<tr>
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<td>3&quot; ELBOW 90 DEG - EMT</td>
<td>2</td>
<td>143.52</td>
<td>1.74</td>
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</table>

**ORIGINAL**
## PROPOSED CHANGE ORDER

**WATSON ELECTRICAL CONSTRUCTION CO.**

3215 Fortune Dr.
Suite 109
Charleston, SC 29418

**Client Address:**

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

**PCO #** 17  
**Date:** 10/16/2020  
**Project Name:** IAAM Museum  
**Project Number:** IAAM Museum  
**Page Number:** 3

<table>
<thead>
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<th>Total Hrs.</th>
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<td>0.00</td>
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<td>1 5/8 x 1 5/8x 14G STRUT GALV</td>
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<td>26.79</td>
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<td>3/8-16 HEX NUT - PLTD STL</td>
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<td>3/8&quot; LOCK WASHER - PLTD STL</td>
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**Totals**

<table>
<thead>
<tr>
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<th>Qty</th>
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<th>Total Hrs.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1,447</td>
<td>9,477.28</td>
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## Summary

**General Materials** 11,646.85  
**Material Tax (@ 9.000 %)** 1,048.22  
**Material Total** 12,695.07  
**JOURNEYMAN** (271.65 Hrs @ $45.00) 12,224.25  
**FOREMAN** (40.75 Hrs @ $50.00) 2,037.50  
**SAFETY** (9.51 Hrs @ $52.00) 494.52  
**OVERTIME ADJUSTMENT** (184.00 Hrs @ $63.00) 11,592.00  
**OVERTIME ADJUSTMENT FOREMAN** (96.00 Hrs @ $75.00) 7,200.00  
**PM&S** (541.91 @ 0.00 @ $6.00 + 0.000 % + 0.000 % + 0.000 %) 3,251.46  
**VDC** (541.91 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %) 541.91  
**VEHICLES** (541.91 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %) 1,354.78  
**CONSUMABLES** (541.91 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %) 162.57  
**HEALTH AND HYGEINE** (541.91 @ 0.00 @ $0.00 + 0.000 % + 0.000 % + 0.000 %) 541.91  
**PER DIEM** (541.91 @ 0.00 @ $7.38 + 0.000 % + 0.000 % + 0.000 %) 3,999.30  
**SCISSOR LIFT** (2.00 @ 1.00 @ $625.00 + 0.000 % + 0.000 % + 0.000 %) 1,250.00  

**Subtotal** 28,207.28  
**Overhead** (@ 10.000 %) 2,820.72  
**Markup** (@ 5.000 %) 1,410.36  
**Total** 32,438.36  
**FIRE ALARM** ($2,500.00 + 0.000 % + 0.000 % + 10.000 %) 35,188.36  

**Subtotal** 63,786.29  
**Final Amount** 64,424.15

**CONTRACTOR CERTIFICATION**

*ORIGINAL*
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

PCO # 17
Date: 10/16/2020

Project Name: IAAM Museum
Project Number: IAAM Museum
Page Number: 4

Client Address:
Turner Construction / Brownstone Management and Design
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Contact: Walt Lewis

Name: ____________________________________________
Date: ____________________________________________
Signature: _________________________________________

I hereby certify that this quotation is complete and accurate based on the information provided.

CLIENT ACCEPTANCE

PCO # 17
Final Amount: $64,424.15

Name: ____________________________________________
Date: ____________________________________________
Signature: _________________________________________

Change Order #: __________________________________

I hereby accept this quotation and authorize the contractor to complete the above described work.
Request for Change Order Approval

Attention: Brianne Stasiak  
RCO ID: 5

Job Name: International African American Museum  
Spec Sections: 

RCO Date: 12/16/20  
ASI # & Date: Email 12/14/20

Scope: Pocket Door Trim

- Our price is based on this proposal and this proposal will become part of any signed contract. In the event of conflict between the scope as defined in the proposal quantifications and any other documents, the proposal quantification governs.
- We have made a detailed quantification of what is in our price. If an item does not appear in this quantification, it is not included.
- SCHEDULE: Submittals 5 days from notification, Fabrication pending material lead times and availability, installation as required

Cost & Schedule $2,625.00

RCO Quantifications & Exclusions

- Provide and install 1x wood jambs and headers with ¾” x 1-1/4” S4S casing
  - PG Poplar, finishing by others
  - Pocket doors provided and installed by others
- Includes Doors: 202A, 202B, 203, 210, 318, T302, T308

<table>
<thead>
<tr>
<th>Product</th>
<th>$</th>
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</thead>
<tbody>
<tr>
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<td>15% OH/P</td>
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<td>Total RCO</td>
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</table>
Refining this down.

Attached are the Contract drawings and our BIM drawing where through discussions with Daron P and CP Marine we added the clouded (on BIM install drawing) low voltage raceways.

When Bulletin #22 came our Daron, Tony (our BIM coordinator) and I discussed adding it to the Bulletin #22 pricing. I also specifically called it out on the proposal to make sure it was seen and reviewed.

We did install those raceways and subsequently added to or reworked a small portion of them in a future revision. Point being, they did get used by CP Marine.

Dale Winovich
Operations Manager

3215 Fortune Drive
North Charleston, SC 29418
M: 843-637-5873
dwinovich@watsonelec.com
To: Edmund V. Most
From: Mike Risteski
Project: CP 1425 International African American Museum
Proposal No.: Change Order Request No. 118R
Contractor: Turner Construction Company

Description of work to be performed: Security Camera Changes - Bulletin 21, 21.1, 21.2
A - Customer Requested Change
This change is associated with the material and labor to install additional cameras and location changes.
B - Code/Regulatory Agency Required Change
This change affects the conduit infrastructure for the cameras as well as the low voltage wiring.
The change was issued in Bulletins 21, 21.1, 21.2
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error
(Indicate Reason for Change Proposal)

Justification: A- Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $44,123.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12, 2021

Approved:
Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan

(Circle One)
(NO) (YES)
Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 21,21.1,21.2. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

<table>
<thead>
<tr>
<th>Reason</th>
<th>Code / Regulatory</th>
<th>Unforeseen Condition</th>
<th>Design Issue</th>
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<tbody>
<tr>
<td>Owner Directive</td>
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<table>
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<tr>
<th>Pricing</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing</th>
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<tr>
<td></td>
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<td>Trade Contractors - See Detailed Estimates</td>
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<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
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<tr>
<td></td>
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<td>Work Authorization is Requested By:</td>
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<table>
<thead>
<tr>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
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**Contractor:** TURNER BROWNSTONE

**Date Submitted:** April 8, 2021

**Dated:** 04/08/21

**Amount Requested:** $44,123

**Requested Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Authorized Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Approved By:**
Owner: City of Charleston

**Dated:** / /  

**Amount Approved:** $44,123
## International African American Museum
### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
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<td>A2</td>
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<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
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|       | SUBTOTAL TRADE DIRECTS                                    | $40,585                    |

|       | CCIP                                                      | @ 2.50%                    | $1,014.63                       |
| A8    | Subguard                                                 | @ 0.012                    | $487.02                         |
| A9    | Builders Risk                                            | @ 0.84%                    | $340.92                         |
| A14   | Performance and Payment Bond                             | @ 0.00732                  | $297.08                         |
| A11   | Procore                                                  | @ 0.04500%                 | $18.26                          |
| A14   | Overhead and Profit                                      | @ 3.25%                    | $1,379.50                       |

|       | SUBTOTAL                                                 | $40,585                    |

|       | ESTIMATE TOTAL                                           | $44,123                     |
## General Requirements (GR's) & General Conditions (GC's)

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<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Unit</th>
<th>Subtotal</th>
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## Trade Directs

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<td>Additional Scope of Work</td>
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<tr>
<td>CP Marine - Camera Changes</td>
<td>$19,871.20</td>
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<td>$19,871.20</td>
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**Total Direct Work Subtotal:** $40,585
International African American Museum (IAAM)

TO: Turner Construction
FOR: Change Order 1 – EOL Camera Change

A Small Disadvantaged Business, 8(a), Alaska Native Corporation (ANC), HUBZone and ISO 9001

Submitted By: Steven Sahlender
Director of Operations
CP Marine LLC
15 Oregon Ave, Suite 203
Tacoma, WA 98409
Steven.sahlender@goldbelt.com
850-533-6352

Version: IAAM CO 1
Date: 1/28/2021
Project: CPMG – C03
<table>
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<th>SKU</th>
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<th>Quantity</th>
<th>Price</th>
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<td>95</td>
<td>Axis Communications Axis P3245-LV Network Camera</td>
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**CCTV System Total $18,352.81**

Project Subtotal: $18,352.81

<table>
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<tr>
<th>Item Description</th>
<th>Quantity</th>
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<tr>
<td>CPMG Engineering/Admin Change Order</td>
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Total Installation Price: $18,977.81

Sales Tax: $1,736.47

**Grand Total: $20,714.28**

---

Arup: Verify count. Bulletin 21 reduced camera count on level 1 from 54 to 15.
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC  29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina  29405

Work Description

SCOPE OF WORK:
Bulletin 21.1 Security Cameras

(15) additinal security camers, raceway only. Level 1.
1" EMT with pullstring.
Single gang backbox.
Raceways are individual raceway per camera location.

Reuse existing conduit racking where available.

Cameras, cabling, terminations by others (furnishing and installing).

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 6 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_43>.

Itemized Breakdown

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Total Mat.</th>
<th>Total Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; CONDUIT - EMT</td>
<td>1,830</td>
<td>5,154.01</td>
<td>100.65</td>
</tr>
<tr>
<td>1&quot; CONN SS STL - EMT</td>
<td>30</td>
<td>124.76</td>
<td>3.60</td>
</tr>
<tr>
<td>1&quot; COUPLING SS STL - EMT</td>
<td>229</td>
<td>1,013.16</td>
<td>13.74</td>
</tr>
<tr>
<td>1&quot; SNAP CLOSE CLIP - SIDE MNT TO MTL STUD SUPPORT</td>
<td>30</td>
<td>71.80</td>
<td>1.80</td>
</tr>
<tr>
<td>1/8&quot; POLYTWIN</td>
<td>2,013</td>
<td>25.22</td>
<td>2.01</td>
</tr>
<tr>
<td>#8x  1/2 WAFER HEAD SHEET MTL SCREW</td>
<td>60</td>
<td>4.20</td>
<td>1.35</td>
</tr>
<tr>
<td>8002-1 - SINGLE BOX BRACKET - 1-GANG</td>
<td>15</td>
<td>63.75</td>
<td>9.75</td>
</tr>
<tr>
<td>Totals</td>
<td>4,207</td>
<td>6,456.91</td>
<td>132.90</td>
</tr>
</tbody>
</table>

Summary

<table>
<thead>
<tr>
<th>Description</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>General Materials</td>
<td>6,456.91</td>
<td></td>
</tr>
<tr>
<td>Material Tax</td>
<td>( @ 9.000 %)</td>
<td>581.12</td>
</tr>
<tr>
<td>Material Total</td>
<td>7,038.03</td>
<td></td>
</tr>
<tr>
<td>JOURNEYMAN</td>
<td>(132.90 Hrs @ $45.00)</td>
<td>5,980.50</td>
</tr>
<tr>
<td>FOREMAN</td>
<td>(19.94 Hrs @ $50.00)</td>
<td>997.00</td>
</tr>
<tr>
<td>SAFETY @ 3.5%</td>
<td>(4.65 Hrs @ $52.00)</td>
<td>241.80</td>
</tr>
<tr>
<td>PM&amp;S</td>
<td>(157.49 @ 0.00 @ $6.00 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>944.94</td>
</tr>
</tbody>
</table>

Arup: Cameras were not additional, they were relocated/several removed. Also, conduit was installed ahead of approved shop drawing submittal. Resubmittal of level 1 conduit shop drawing was submitted Dec 2, 2020. Bulletin 21 was issued on Aug 7, 2020.
### Summary (Cont'd)

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>VDC</td>
<td>157.49</td>
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<tr>
<td>VEHICLES</td>
<td>393.73</td>
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<tr>
<td>CONSUMABLES</td>
<td>47.25</td>
</tr>
<tr>
<td>HEALTH AND HYGEINE</td>
<td>157.49</td>
</tr>
<tr>
<td>SCISSOR LIFT</td>
<td>1,150.00</td>
</tr>
</tbody>
</table>

| Subtotal                   | 17,108.23  |
| Overhead                   | 2,566.23   |

| Subtotal                   | 19,674.46  |
| Adjustment #1-BOND         | 196.74     |

| Final Amount               | $19,871.20 |

### CONTRACTOR CERTIFICATION

- **Name:**
- **Date:**
- **Signature:**

> I hereby certify that this quotation is complete and accurate based on the information provided.

### CLIENT ACCEPTANCE

- **PCO #:** 43
- **Final Amount:** $19,871.20

- **Name:**
- **Date:**
- **Signature:**

> I hereby accept this quotation and authorize the contractor to complete the above described work.
BULLETIN #021.1

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>IAAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROJECT NO.</td>
<td>15490</td>
</tr>
<tr>
<td>TO</td>
<td>Bobby Teacheys</td>
</tr>
<tr>
<td>FROM</td>
<td>Bernie Costantino</td>
</tr>
</tbody>
</table>

DESCRIPTION: Revise the number and location of security cameras on Level 01.

DRAWINGS:
A-211a Level 01 RCP Part A
A-211b Level 01 RCP Part B

DISTRIBUTION:
Rick Davis
Bri'Shae Anderson
Walt Lewis
Brianne Stasiak
Edmund Most
Rick Holt
Robert Faust
Jonathan Roberts
Julie Cook
Bob Larrimer
Cumming
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 131 R1
Contract: Construction

Description of work to be performed: Granite Inscription

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Bolts Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Paid Option (Allowance)
K - Accounting Error

(Indicate Reason for Change Proposal)

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $57,076.00 Owner Contingency Allow. BAL.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: July 12/2021

(Circle One)

(Mike Risteski, Cumming Corp.)

(Circle One)

(Olivia Holt, Cumming Corp.)

(Circle One)

(Robert Faust, Cumming Corp.)

(Circle One)

(Olivia Holt, Cumming Corp.)

(Circle One)

(Edmund V. Most, City of Charleston)

(Circle One)

(Edward Costantino, Moody Nolan)
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 7/12/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 131 R1
Contract: Construction

Description of work to be performed: Granite Inscription
A - Customer Requested Change
This change is associated with the material and labor to perform the requested etching on the granite.
B - Code/Regulatory Agency Required Change
This will be installed on the Memorial Wall. The cost also includes additional labor for the coordination and
installation of the etched granite VS the plain granite slabs.
The original cost for the Granite inscription and additional burden of installation was 75,952.00. The masonry
subcontractor decided to give a donation to the IAAM in the amount of 17,362.00. This brings the new total to
57,076.00

Justification:
A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $57,076.00
Owner Contingency
Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

(Indicate Reason for Change Proposal)

Approved: Rick Holt, Cumming Corp.
(YES) (NO)
(Circle One)

Decision needed by: July 12, 2021

(YES) (NO)
(Circle One)
Mike Risteski, Cumming Corp.

(YES) (NO)
(Circle One)
Edmund V. Most, City of Charleston

(YES) (NO)
(Circle One)
Bernard Costantino, Moody Nolan
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and layout granite inscription. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason: X Owner Directive

Pricing: Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact: Evaluated - NO TIME IMPACT

Work Authorization is Requested By:

Submitted By: Walter Lewis Project Engineer
07/28/21

Contractor: TURNER BROWNSTONE

Requested Action:

Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Authorized Action:

Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Approved By: Owner: City of Charleston

$57,076

Amount Approved
## International African American Muesum
### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR $0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT $0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$52,500.50</td>
</tr>
</tbody>
</table>

**A4**

SUBTOTAL TRADE DIRECTS $52,501

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>COR No.</th>
<th>SUBTOTAL</th>
<th>ESTIMATE TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>131R1</td>
<td><strong>CCIP</strong></td>
<td>@</td>
<td>2.50%</td>
<td>$1,312.51</td>
</tr>
<tr>
<td></td>
<td><strong>Subguard</strong></td>
<td>@</td>
<td>0.012</td>
<td>$630.01</td>
</tr>
<tr>
<td></td>
<td><strong>Builders Risk</strong></td>
<td>@</td>
<td>0.84%</td>
<td>$441.00</td>
</tr>
<tr>
<td></td>
<td><strong>Performance and Payment Bond</strong></td>
<td>@</td>
<td>0.00732</td>
<td>$384.30</td>
</tr>
<tr>
<td></td>
<td><strong>Procore</strong></td>
<td>@</td>
<td>0.04500%</td>
<td>$23.63</td>
</tr>
<tr>
<td></td>
<td><strong>Overhead and Profit</strong></td>
<td>@</td>
<td>3.25%</td>
<td>$1,784.50</td>
</tr>
</tbody>
</table>

**ESTIMATE TOTAL** $57,076
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td>$69,862.50</td>
<td>LS</td>
<td>1</td>
<td>$69,862.50</td>
<td></td>
</tr>
<tr>
<td>Granite Inscription Cost</td>
<td>$(17,362.00)</td>
<td>LS</td>
<td>1</td>
<td>$-17,362.00</td>
<td></td>
</tr>
</tbody>
</table>

$52,501

DIRECT WORK SUBTOTAL $52,501
The cost breakdown difference for GMP Granite Versus 17.3 Bulletin

<table>
<thead>
<tr>
<th></th>
<th>GMP Amount</th>
<th>17.3 Amount New Amount</th>
<th>Cost</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount of Cost for Material for Granite)</td>
<td>$92,500</td>
<td>$145,000</td>
<td>$52,500</td>
<td>The increase in price is based off the line item submission breakdown given by the granite supplier.</td>
</tr>
<tr>
<td>Labor to layout inscription walls</td>
<td>$130,926.74</td>
<td>$139,176.74</td>
<td>$8,250</td>
<td>This increase is caused due to the alignment of correct pieces and the additional time and resources that is going to make sure each granite piece is installed in the correct location</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>$60,750</td>
<td>With 15% markup that turns into 69,862.5</td>
</tr>
</tbody>
</table>
Line Item Submission

Don Conte <don@structuralstonellc.com>  
To: Will Patterson <wpatterson@patconind.com>  
Cc: Ray Cucino <ray@structuralstonellc.com>

Will,

Our breakdown for the $52,500 in additional cost for the engraving on this project, is as follows:

- Drafting, $5,000
- Templates, $7,500
- Layout/handling, $10,000
- Regular blasting with lithochrome, $20,000
- Additional depth blasting, $10,000

We will put this on a formal Proposal Form on Monday morning and send to you.

Thank you

Regards,

Don Conte
Structural Stone LLC
401-667-4969 office
401-575-1933 cell

From: Will Patterson <wpatterson@patconind.com>
Sent: Tuesday, May 18, 2021 9:35 AM
To: Angela Conte <angela@structuralstonellc.com>; Don Conte <don@structuralstonellc.com>
Subject: Line Item Submission

Hey Don and Angela,
Masonry Granite Price Reduction for the International African American Museum

Before we get into the nuts and bolts of how to reduce this granite cost, I and PatCon Industries want to thank everyone for the opportunity and support that the design team, the general contractor, and the City of Charleston has shown us throughout this project. Even before we laid a brick on this building, Rev Jenkins at the Topping Out Ceremony, thanked the masons for— “working diligently and tirelessly to see this story come to light” and “pray(ed) you watch over them as this building comes to completion”. This story is as much a part of us as it is of you, and as Rev. Jenkins says, we must see this story come to light.

Now, in regards to the labor for installing the granite pieces, the prices are pretty much set. However, due to the historical, architectural, and personal meaning behind this building, PatCon can shed $17,362 as a donation from PatCon Industries and the Patterson Family.

In regards to the material aspect of the granite, the Granite Supplier suggest the VE option of using a standard engraving instead of the custom deeper etching for the honed pieces. It may alter the overall appearances of the words slightly in the granite but that slight change is costing $10,000.

So, with our donation and the VE option on the granite that lowers the cost by $27,362 bringing my change request to $42,500 which was originally costing $69,862. Once again, thanks for supporting us and speaking this success into existence. We look forward to seeing this project to completion.

Will Patterson
Vice President of Operations
Patcon Industries, Inc
patconindustries@gmail.com
www.patconind.com
Description of work to be performed: FRP Finish Kitchen BOH
This change is associated with the material and labor for the installation of FRP pannelling at the back of house kitchen area. This section was added as a change to the GMP drawings with Bulletin 15. Even though there have been a few COR associated with Bulletin 15 non of them included the price for the FRP pannelling. The panneling is required by code and DHEC to make the walls washable.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $6,898.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: September 30, 2021

Approved: Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, City of Charleston

(Circle One)
(NO) YES

(Circle One)
(NO) YES
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>This COR Changes the Finish in the Kitchen to FRP.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Owner Directive</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Evaluating Potential for Time Impact</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Submitted By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Lewis Project Engineer</td>
</tr>
<tr>
<td>07/19/2021</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requested Action:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorized to Proceed While Pricing</td>
</tr>
<tr>
<td>Price Only</td>
</tr>
<tr>
<td>Do Not Proceed or Price</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Authorized Action:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorized to Proceed While Pricing</td>
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<tr>
<td>Price Only</td>
</tr>
<tr>
<td>Do Not Proceed or Price</td>
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</table>

<table>
<thead>
<tr>
<th>Approved By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edmund Most</td>
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<tr>
<td>07/19/2021</td>
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</table>

<table>
<thead>
<tr>
<th>Amount Requested:</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6,898</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amount Approved:</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6,898</td>
</tr>
</tbody>
</table>

---

Please refer to the attached FRAGNET/Schedule Impact Analysis.
## International African American Museum

### General Summary of the Estimate

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’S) SELF PERFORMED LABOR</td>
<td>$0</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’S) MATERIAL(S) &amp; EQUIPMENT</td>
<td>$0</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$6,345.00</td>
</tr>
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</table>

### SUBTOTAL TRADE DIRECTS

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A4</td>
<td></td>
<td>SUBTOTAL TRADE DIRECTS</td>
</tr>
<tr>
<td>A5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A7</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>2.50%</td>
<td>$158.63</td>
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<tr>
<td>A9</td>
<td>Subguard</td>
<td>0.012</td>
<td>$76.14</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>0.84%</td>
<td>$53.30</td>
</tr>
<tr>
<td></td>
<td>Performance and Payment Bond</td>
<td>0.00732</td>
<td>$46.45</td>
</tr>
<tr>
<td>A11</td>
<td>Procore</td>
<td>0.04500%</td>
<td>$2.86</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit</td>
<td>3.25%</td>
<td>$215.67</td>
</tr>
</tbody>
</table>

### ESTIMATE TOTAL

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>$6,898</td>
</tr>
</tbody>
</table>

---

COR No.: 143R1
### GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TRADE DIRECTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
<th>Unit</th>
<th>UNITS</th>
<th>SUBTOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Add FRP to the Kitchen</td>
<td>$6,345</td>
<td>1 LS</td>
<td></td>
<td>$6,345.00</td>
<td></td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** $6,345

---

**Note:** The table above details the additional scope of work for the International African American Museum, specifically adding FRP to the kitchen. The total cost for this additional work is $6,345.00.
# REQUEST FOR CHANGE ORDER

**Ref.#** COR-0063  
**Date** May 25, 2021  
**GC #**  
**Job #** 19-0998

**To:** Turner Construction  
5300 Virginia Way  
Brentwood, TN 37027  
Phone: (615)231-6300  
**Contact:** Walt Lewis

**Project:** International African American Museum  
14 Wharfside Street  
Charleston, SC

**Description:** Install FRP BOH Cafe Rm 201B only.

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install FRP Panels-DW</td>
<td>44.00</td>
<td>67.50</td>
<td>$2,970.00</td>
</tr>
<tr>
<td>Clean-up-DW</td>
<td>3.00</td>
<td>67.50</td>
<td>$202.50</td>
</tr>
<tr>
<td>Supervision</td>
<td>4.00</td>
<td>67.50</td>
<td>$270.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th>Size</th>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRP ADHESIVE POLYMER</td>
<td>PAIL</td>
<td>5.00</td>
<td>EA</td>
<td>136.00 EA</td>
<td>$680.00</td>
</tr>
<tr>
<td>CLASS A FRP WALL PANEL- PEBBLED WHITE</td>
<td>9'</td>
<td>16.00 EA</td>
<td>SQFT</td>
<td>2.18 SQFT</td>
<td>$1,255.68</td>
</tr>
<tr>
<td>FRP END CAP WHITE</td>
<td>10'</td>
<td>13.00 EA</td>
<td>.42 LF</td>
<td>.42 LF</td>
<td>$54.60</td>
</tr>
<tr>
<td>FRP DIVIDER STRIP WHITE</td>
<td>10'</td>
<td>16.00 EA</td>
<td>.42 LF</td>
<td>.42 LF</td>
<td>$67.20</td>
</tr>
<tr>
<td>FRP INSIDE CORNER WHITE</td>
<td>10'</td>
<td>7.00 EA</td>
<td>.42 LF</td>
<td>.42 LF</td>
<td>$29.40</td>
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</tbody>
</table>

| Total Material                | $2,086.88 |

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEWALT 15AMP 7-1/4&quot; CIRCULAR SAW W/ BRAKE - CORDED</td>
<td>1.00 EA</td>
<td>119.00 EA</td>
<td>$119.00</td>
<td></td>
</tr>
</tbody>
</table>

| Total Equipment               | $119.00  |

**Subtotal for Detail** $5,648.38

**Total Labor** $3,442.50

<table>
<thead>
<tr>
<th>Miscellaneous</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parking</td>
<td>$120.00</td>
</tr>
<tr>
<td>Rounding</td>
<td>-$0.20</td>
</tr>
</tbody>
</table>

**Total Miscellaneous Charges** $119.80

**Labor Total:** $3,442.50  
**Material Total:** $2,086.88  
**Sub Trade Total:** $0.00  
**Adjustments Total:** $0.00  
**Equipment Total:** $119.00  
**Misc. Total:** $119.80  

Sub Total: $5,768.18

<table>
<thead>
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<th>10.00%</th>
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</thead>
<tbody>
<tr>
<td>$576.82</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** $6,345.00

---

Joel Ofsthun  
Project Manager
Change Order Proposal Review Form

To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 163  
Contract: Construction

Description of work to be performed: Stainless Steel Band Etching

A - Customer Requested Change
This change is associated with the labor and materials associated with the etching of the stainless steel band. The material of the stainless steel band, final sizing and finish were included in the GMP scope.

This change order is only for the etching of the band to the design specifications and requirements.

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $141,671.00  
Owner Contingency  Allow. Bal.

Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Decision needed by: February 24, 2022

Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Stainless Steel Band Cost for inscription and bead blasting finish.**

**Reason:**
- [X] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [X] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] TBD
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

**Work Authorization is Requested By:**

**Amount Requested:**
- $141,671

**Submitted By:**
- Contractor: TURNER BROWNSTONE
- Walter Lewis  Project Engineer
- Dated: 09/15/2021

**Reviewed By:**
- Program Manager: CUMMING
- Dated:

**Approved By:**
- Owner: City of Charleston
- Dated:
## General Summary of the Estimate

### General Requirements (GR's) & General Conditions (GC's)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

### Subtotal Trade Directs

| SUBTOTAL TRADE DIRECTS                        | $130,683 |

### Additional Costs

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>Percentage</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4</td>
<td>CCIP</td>
<td>2.50%</td>
<td>$3,267.08</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>0.012%</td>
<td>$1,568.20</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>0.84%</td>
<td>$1,097.74</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>0.00732%</td>
<td>$956.60</td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>0.04500%</td>
<td>$58.81</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit (Taken of Direct work cost)</td>
<td>3.25%</td>
<td>$4,039.13</td>
</tr>
</tbody>
</table>

### Estimate Total

| SUBTOTAL                                           | $141,671 |

---

*International African American Museum*
## GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)

### DESCRIPTION

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
</tr>
</tbody>
</table>

## TRADE DIRECTS

### DESCRIPTION

1. **Stainless steel band inscription**
   - Rate: $155,183.00
   - Unit: LS
   - Total: $155,183.00
   - Includes Bead Blasting - Included Above
   - Includes Etching - Included Above

2. **GMP Allowance for Stainless Steel Band Etching**
   - Rate: $(24,500.00)
   - Unit: LS
   - Total: $-24,500.00

3. **Turner to Evaluate schedule and supervision costs in a separate COR to be submitted at a later date.**

   This COR Reconciles the entire Steel Band Etching Allowance. Allowance Closed.

**DIRECT WORK SUBTOTAL** $130,683
## PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**  
1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209  
Attention: Walt Lewis  
Phone: 919-788-2024  
FAX: -

**PROJECT:** International African American Museum  
Charleston, SC

**DESCRIPTION**  
Added cost to ship approximately 224 LF of 1/4" 316 head blast finished stainless plate to be machine tooled / milled / edged, and shipped to job site.  
See attached Change Order from Stainless Fabricators, Inc. for breakdown and additional description of added cost.

<table>
<thead>
<tr>
<th>Description</th>
<th>A/D</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Fabricators, Inc.</td>
<td>ADD</td>
<td>$124,044</td>
</tr>
<tr>
<td>Overhead &amp; Profit</td>
<td>ADD</td>
<td>$18,607</td>
</tr>
<tr>
<td>Bonding</td>
<td>ADD</td>
<td>$1,552</td>
</tr>
<tr>
<td>TAX</td>
<td></td>
<td>$10,980</td>
</tr>
</tbody>
</table>

This change will ADD an additional 28 WORK DAYS to our scheduled scope of work.

**Total This Change Order:** $155,183

---

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

**Turner Const Signature:**  
Date:  

**LSC Signature:**  
Date: 09/09/21  
Prepared by: Spencer Fleming

---

*Please sign and return to E-mail noted above or via Facsimile (336-785-8835) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items.  
If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.*
Stainless Fabricators, Inc.
11107 Challenger Ave.
Odessa, Florida 33556
www.stainlessfabinc.com
Phone: 813-926.7113
Fax: 813.626.7114

By: Keith Binney  Date: 8/30/2021

To: Lynden Steel Company
Because of the current unstable SS market, this quote is good for 30 days, post issue
Phone: 336-785-0848
Fax: 336-423-8019
Contact: DeWitt Friedermann

All prices will be "Price in Effect" at time of shipment

Scope Of Work: Fabricate.
Freight: FOB Odessa, Florida unless otherwise noted.
Terms: 25% Deposit with order Balance due upon completion

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit Cost</th>
<th>Units</th>
<th>Type</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>A:</td>
<td>1/4&quot; 316 bead blast finish Stainless plate 1/4&quot; X 24&quot;X 244 FT Approx.</td>
<td>$150,000.00</td>
<td>1</td>
<td>Ea.</td>
<td>$150,000.00</td>
</tr>
<tr>
<td>B:</td>
<td>Crate and Freight From NY To Odessa RI / From Odessa To Providence Plate will be ship from manufacture to SFI to be inspected Cut prep and Shipped to RI</td>
<td>$152,000.00</td>
<td>1</td>
<td>Ea.</td>
<td>$152,000.00</td>
</tr>
<tr>
<td>C:</td>
<td>Plate to be Bead blasted / Setup / Machine Tooling / Milled / edged</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D:</td>
<td>Freight To SFI / Inspection / Straighten / Crate for shipping to job site.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E:</td>
<td>Install / Hotel / Per diem / Travel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Original Contract cost

- $30,000.00 | 1 | Ea. | $ (30,000.00) |

SUB TOTAL

$122,000.00

Please note: Tax not included.

0%

$-

SUB-TOTAL with Sales Tax

2 | $122,000.00

EXTENDED PRICE IS FOR FOOTAGE LISTED ONLY. IF MEASURED QUANTITY DIFFERS, THE PRICE WILL BE ADJUSTED ACCORDINGLY.

Engineering:

<table>
<thead>
<tr>
<th>Engineering</th>
<th>Unit Cost</th>
<th>Units</th>
<th>Type</th>
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</thead>
<tbody>
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<td>$250.00</td>
<td>1</td>
<td>Ea.</td>
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<tr>
<td>B: Submittal / Fabrication Dwg.</td>
<td></td>
<td>1</td>
<td>Lot</td>
</tr>
<tr>
<td>C: Freight / Crate.</td>
<td></td>
<td>1</td>
<td>Ea.</td>
</tr>
<tr>
<td>D: Mobilization</td>
<td>$1,793.56</td>
<td>1</td>
<td>Ea.</td>
</tr>
<tr>
<td>E: Installation</td>
<td></td>
<td>2</td>
<td>LFT.</td>
</tr>
<tr>
<td>G: Field measurement trip</td>
<td></td>
<td>1</td>
<td>Ea.</td>
</tr>
<tr>
<td>Per Diem:</td>
<td></td>
<td>15</td>
<td>Ea.</td>
</tr>
</tbody>
</table>

SUB-TOTAL $2,043.56

Grand Total $124,043.56

This is not a lump sum price but for footage listed above ONLY.

Note: All embeds / sub structure are not a part of this quote unless listed above with the line times.

All material 316 # 8 bead blast.

Standard Material escalation Applies

SPECIAL NOTE:

Typical Lead time on construction is 8-12 weeks after field verification. Price quotation is good for 30 days after issue. Standard terms are 25% deposit, with order/balance on completion see attachment for payment terms and conditions. This quotation is based on the available information at the time of it's issue, if the design of the product or scope of work is to be supplied changes from the above listed quantity or description, the price will be adjusted accordingly. Materials quoted may not comply with BUY AMERICAN clause.

EXTENDED PRICE IS FOR FOOTAGE LISTED ONLY.

GENERAL NOTES:

Contract terms subject to review before acceptance. Erection pricing based on unobstructed access to work areas during; delivery, unloading & erection. It is the GC's responsibility for establishing elevations. Additional work required do to lack of information or changes, like "BUY AMERICAN" clause or design modifications caused by construction changes after the subbid date, will be charged back to the project at $75.00 per man hour plus materials. In all cases, it is the responsibility of the purchaser to supply SFI with the proper information to price a particular project, and to supply SFI with all construction changes.

Approved For Production ___________________ Date ____________
CUMMING
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/1/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 165
Contract: Construction

Description of work to be performed:
Changes in Data Requirements CPM (CO 6)
This change is associated with the materials and labor in the changes to the data requirements
as presented in the CP Marine CO 6 resulting from the response to RFI 469 and RFI 557

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $3,163.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 1, 2021

Approved:

Rick Holt, Cumming Corp.

Robert Feust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costanzo, Moody Nolan

Mike Risteski, Cumming Corp.
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Cost for additional AV / Data Requirements.

Reason:
- [x] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [ ] Design Issue

Pricing:
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
- [x] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] TBD Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] Work Authorization is Requested By:

Submitted By:  
[Signature] Walter Lewis  
Project Engineer  
Dated  
09/22/2021

Contractor:  
TURNER BROWNSTONE

Amount Requested  
$ 3,163

Requested Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Authorized Action:
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

Reviewed By:  
Program Manager:  
CUMMING

Dated

Approved By:  
Owner:  
City of Charleston

Dated

Amount Approve  
$ 3,163
# International African American Museum
## General Summary of the Estimate

### COR No.: 165

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>SELF PERFORMED LABOR</td>
</tr>
<tr>
<td>A2</td>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC'S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
</tr>
<tr>
<td>A3</td>
<td>TRADE DIRECTS</td>
<td></td>
</tr>
</tbody>
</table>

**SUBTOTAL TRADE DIRECTS** $2,918

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A8</td>
<td>CCIP</td>
<td>2.50%</td>
</tr>
<tr>
<td>A9</td>
<td>Subguard</td>
<td>0.012</td>
</tr>
<tr>
<td>A14</td>
<td>Builders Risk</td>
<td>0.84%</td>
</tr>
<tr>
<td>A11</td>
<td>Performance and Payment Bond</td>
<td>0.00732</td>
</tr>
<tr>
<td>A14</td>
<td>Procore</td>
<td>0.04500%</td>
</tr>
<tr>
<td>A15</td>
<td>Overhead and Profit (Taken of of Direct work cost)</td>
<td>3.25%</td>
</tr>
</tbody>
</table>

**ESTIMATE TOTAL** $3,163
**GENERAL REQUIREMENTS (GR's) & GENERAL CONDITIONS (GC's)**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
</tr>
</tbody>
</table>

**TRADE DIRECTS**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Scope of Work</td>
</tr>
<tr>
<td>1 Changes in Scope of work for CP Marine - Per RFI 579</td>
</tr>
</tbody>
</table>

**DIRECT WORK SUBTOTAL** | $2,918
International African American Museum (IAAM) 

TO: Turner Construction  
FOR: Change Order 6 – RFI 499/557  

A Small Disadvantaged Business, 8(a), Alaska Native Corporation (ANC), HUBZone and ISO 9001  

Submitted By: Steven Sahlender  
VP of Alaska Group  
Goldbelt Inc./CP Marine LLC  
603 Pilot House Drive Ste. 400  
Newport News, VA 23606  
Steven.sahlender@goldbelt.com  
850-533-6352  

Version: IAAM CO 6  
Date: 2/23/2021  
Project: CPMG – C03
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Chief PAC5226FBP4, In-Wall storage box, 4 receptacle filter, surge</td>
<td>1</td>
<td>$1,116.52</td>
<td>$1,116.52</td>
</tr>
<tr>
<td>1</td>
<td>CPMG Engineering Change Order</td>
<td>1</td>
<td>$625.00</td>
<td>$625.00</td>
</tr>
<tr>
<td>800</td>
<td>Hitachi 4/23 CAT6A U/FTP SUPRA 10GIG CMR</td>
<td>4/23</td>
<td>$506.36</td>
<td>$506.36</td>
</tr>
<tr>
<td>4</td>
<td>Knowlogix Cable Testing and Certification, Cable Certification Labor, Product Rental, and Calibration Fees</td>
<td>4</td>
<td>$260.00</td>
<td>$1,040.00</td>
</tr>
<tr>
<td>1</td>
<td>Knowlogix Engineering Change Order - 4 Hour Min</td>
<td>1</td>
<td>$500.00</td>
<td>$500.00</td>
</tr>
<tr>
<td>8</td>
<td>Ortronics Black Clarity CAT6A Shielded High Density Jack, T568A/B</td>
<td>8</td>
<td>$95.20</td>
<td>$761.60</td>
</tr>
</tbody>
</table>

**Total Installation Price:** $3,103.08  
**Sales Tax:** $128.26  
**Grand Total:** $3,231.34

---

**Client:** Turner Construction  
**Date:**

**Contractor:** CP Marine LLC  
**Date:**
Julie,

Yup this is what I need! I coordinated this layout with the metal panel contractor who can make it work. With the dimensions worked up between myself and Alex, it will be concealed behind the monitor.

Thank you,

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 601 | Charlotte, NC 28209
Mobile 980.406.0287 | alodato@tcco.com

From: Cook, Julie [mailto:JCook@moodynolan.com]
Sent: Monday, February 22, 2021 8:43 AM
To: Alex Millender <alex.millender@jci.com>; LoDato, AJ - (CAR) <alodato@tcco.com>
Cc: Sarah Aarons <sarah.aarons@arup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>; Milani, Matteo <mmilani@pcf-p.com>
Subject: RE: RFI 449 & 579 - PAC Boxes at Display Niches

AJ –

Does below give you information you need? The install also needs to be coordinated with metal panel contractor. Brianne has managed that prior to leaving. Matteo sketched in the monitor in red in response to the RFI. Need to confirm this is behind the monitor and not visible to visitor.

Thanks-

JULIE COOK
AIA, LEED AP
PRINCIPAL
PROJECT ARCHITECT
MOODY·NOLAN
moodynolan.com

2021 AIA NATIONAL ARCHITECTURE FIRM AWARD
From: Alex Millender <alex.millender@jci.com>
Sent: Friday, February 19, 2021 6:36 PM
To: LoDato, AJ - (CAR) <alodato@tcco.com>; Cook, Julie <JCook@moodynolan.com>
Cc: Sarah Aarons <sarah.aarons@arup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: RE: RFI 449 & 579 - PAC Boxes at Display Niches
This is the monitor being used:

https://pro.sony/ue_US/products/pro-displays/fwd-75x800h

It is 66” wide. The edge of the monitor angles back towards the maximum depth as it moves in. If the outer edge of the PAC box is more than 3-4 inches in from outer edge of the monitor it shouldn’t be visible by visitors.

Regards,

Alex Millender, CTS-D, CTS-I
Project Development Engineer, AV
Connected Technologies & Solutions

Johnson Controls
Phone: (205) 644-4692
Email: alex.millender@jci.com
www.Johnsoncontrols.com
Twitter: @JohnsonControls • LinkedIn: Johnson-Controls

The power behind your mission

THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED AND CONFIDENTIAL. The information contained in, or attached to, this message is intended solely for the use of the specific person(s) named above. If you are not the intended recipient then you have received this communication in error and are prohibited from review, retransmission, taking any action in reliance upon, sharing the content of, disseminating or copying this message and any of the attachments in any way. If you have received this communication in error, please contact the sender immediately and promptly delete this message from all types of media and devices. Thank you.

From: LoDato, AJ - (CAR) <alodato@tcco.com>
Sent: Friday, February 19, 2021 3:38 PM
To: Alex Millender <alex.millender@jci.com>; Julie Cook <JCook@moodynolan.com>
Cc: Sarah Aarons <sarah.aarons@arup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: RE: RFI 449 & 579 - PAC Boxes at Display Niches

Yes the fireproofing (foam area) is the center, the openings are also the same dimensions in both directions.

I measured a similar PAC box and it was 14.5”, we need about 4-6” on the top to bend our coupling under the TV mount and blocking. The TV mount is 5.5” high. Looking at a ballpark of 24” below center of TV for this buildup.

20/A-601 shows a better section cut, but there is no elevation. See the metal panel shop drawings below for a better idea of what’s going on.
Julie,

I think AJ is correct, but I want to confirm officially. I’d need to look at an actual drawing to load in the mount, PAC526 box, and the Sony display being used to confirm the PAC box stays hidden.
Do you or Sarah know off hand which drawing shows this elevation?

AJ, can you confirm that the foamed area (looks like foam at least) is the center of the niche? i.e. are the lengths of the two black arrows I inserted the same?

Regards,

Alex Millender, CTS-D, CTS-I
Project Development Engineer, AV
Connected Technologies & Solutions

Johnson Controls
RFI 449 & 579 call for PAC boxes at the display niches. It also calls to confirm location with JCI and Arch. Please confirm proposed location. The current single gang will be swapped out for the PAC box.

Dimensionally, this should stay slightly concealed behind the TV as I pulled common 70” TV height dimensions.

NORTH:
SOUTH:
Thanks,

AJ LoDato  |  Engineer
Turner Construction Company  |  4601 Park Road, Suite 601  |  Charlotte, NC 28209
Mobile 980.406.0287  |  alodato@tcco.com
MEP - Low Voltage | Rack Clarifications

TO: Bernard Costantino (Moody Nolan)  
Julie Cook, AIA (Moody Nolan)  

FROM: Daron Pardine (Turner Construction (ATL))  
Charleston, South Carolina  

DATE INITIATED: 10/28/2020  

LOCATION:  

PROJECT STAGE:  

COST IMPACT:  

DRAWING NUMBER:  

LINKED DRAWINGS:  

RECEIVED FROM: Daron Pardine (Turner Construction (ATL))  

COPIES TO:  
Sarah Aarons (ARUP), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Trae Dantzler (CP Marine), Alex Nash (Turner Construction (CAR)), Chris Nuss (CP Marine), Jonathan Roberts (Cumming), Stephanie Terault (ARUP)  

Question from Daron Pardine (Turner Construction (ATL)) at 02:55 PM on 10/28/2020

This RFI has 2 parts:

1) We suggest enlarging the racks in E201 to be 36" deep as the servers for the Access Control and Camera system will be 29" in depth. It is best to maintain consistency of the racks in these rooms and we suggest making them all 36". This will broaden the parts availability for the rack-mounted UPS's as well as enable better cable management for the end users.

Confirm or advise if we can use 36" racks.

2) The rack in E211 was reviewed and was determined to be too large for the space. Advise on the size of rack required for this room and if PDU's are required.

Awaiting an Official Response

2) E211 rack was determined to be VMRK-54 (standard 31.4" depth version, not VMRK-54-36 version with 36" depth). No in-rack UPS needed.

UPDATE RESPONSE:
Design team can not respond to Q1 until we get a coordinated drawing showing all equipment. See attached email sent to TB with various issues previously noted on equipment in this room.
Subject: MEP - Low Voltage | Rack Clarifications

Information Requested:

This RFI has 2 parts:

1) We suggest enlarging the racks in E201 to be 36” deep as the servers for the Access Control and Camera system will be 29” in depth.

It is best to maintain consistency of the racks in these rooms and we suggest making them all 36”. This will broaden the parts availability for the rack-mounted UPS's as well as enable better cable management for the end users.

Confirm or advise if we can use 36” racks.

2) The rack in E211 was reviewed and was determined to be to large for the space. Advise on the size of rack required for this room and if PDU's are required.

Responses

Nivin Joseph - ITC

1) Turner to provide a coordinated layout plan of E201, showing all clearances of these racks and AV racks from electrical panels and other equipment within this space.

2) Refer to JCI Response
Cook, Julie

Walt and all,

In addition, the racks in E201 need to be coordinated with all of the other equipment in the room. The security server was not submitted for design team review, and if it is installed in the rack as they are specified in the design documents (29”), it will protrude from the rack and cable management will not be ideal. The design documents clearly indicate the expected rack depth. The AV rack depth from design is also shown on the drawings, at 31.4”. The coordination of the equipment in the rack and the racks with other equipment in the room (IT/Elec/Sec/etc.) needs to be done via a coordinated shop drawing. This is a requirement of the Telecom and Electrical specifications.

The rack that was submitted and being returned today is a field adjustable rack. We accept the deeper rack configuration if it is determined that is required for the equipment being procured, but the room must be coordinated with the increased depth.

Thanks,

Sarah Aarons  PE  LEED AP BD+C

d: +1 202 729 8239
m: +1 202 779 3990
We have returned the ones we discussed. As noted on the call many of the RFI’s were just submitted prior to call. I will
be returning the LEVEL 2 & 3 coordination drawings – Revise and resubmit as they are not coordinated, let me know if
you would like to set up a call to page turn the issues.

RFI 451 – returned
RFI 499 – See attached email and issue with UPS noted in Oct field report. (NOTE: dimensions provided are not
acceptable Design Team needs a shop drawings that shows coordinated room and equipment as required by
GMP) Please provide update on coordinated drawings.
RFI 500 – returned
RFI 505 – returned
RFI 510 – Will return today this is requesting a substitution which we will need more info on.
RFI 517 – Returned
RFI 518 – returned
RFI 520 – will return by end of week
RFI 521 – returned
RFI 522 – returned
RFI 523 – returned
RFI 524 – returned
RFI 528 – returned
RFI 533 – returned
RFI 535 - will return by end of week
RFI 536 – will return by end of week

Let me know what other items you are looking for.

Thanks-

JULIE M. COOK
AIA, LEED AP
PRINCIPAL
ARCHITECT

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Thursday, November 19, 2020 9:10 AM
To: Stasiak, Brianne M - (CAR) <bstasiak@tcco.com>; bteachey@bstonegroup.com; Winovich, Dale
<DCostantino@moodynolan.com>; Sloan, Kevin <KSloan@watsonelec.com>; Chris Nuss <cnuss@knowlogix.com>; Trae
Dantzler <tdantzler@knowlogix.com>; Sahlender, Steven <steven.sahlender@goldbelt.com>; Cook, Julie
<jCook@moodynolan.com>; Robert H. Faust <bfaust@ccorpusa.com>; Sarah Aarons <sarah.aarons@arup.com>; alex.millender@jci.com
Cc: Lovelace, Ricky J - (CAR) <RLovelace@tcco.com>; Washington, George <George.Washington@watsonelec.com>; Costantino, Bernard <BCostantino@moodynolan.com>; Jonathan Roberts <jonathan.roberts@ccorpusa.com>; Peter
Massoud <Peter.Massoud@arup.com>; okechukwu.chika@jci.com; Anderson, Bri'Shae D - (CAR)
<bdanderson@tcco.com>
Subject: RE: IAAM - Electrical and Low Voltage Discussion Meeting Minutes

Julie,

What is the status of the RFI that were supposed to be returned yesterday. I have not seen the ones we committed to
getting back. There has been a couple of answers.
‘
Please advise.
From: Stasiak, Brianne M - (CAR) <bstasiak@tcco.com>
Sent: Wednesday, November 18, 2020 6:17 PM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>; bteachey@bstonegroup.com; Winovich, Dale
<DWinovich@watsonelec.com>; Sloan, Kevin <KSloan@watsonelec.com>; Chris Nuss <cnuss@knowlogix.com>; Trae Dantzler <tdantzler@knowlogix.com>; Sahlender, Steven <steven.sahlender@goldbelt.com>; Cook, Julie
<jcook@moodynolan.com>; Robert H. Faust <bfaust@ccorpusa.com>; Sarah Aarons <sarah.aarons@arup.com>; Chris Nuss <cnuss@knowlogix.com>; Trae Dantzler <tdantzler@knowlogix.com>; Sahlender, Steven <steven.sahlender@goldbelt.com>; Cook, Julie
<jcook@moodynolan.com>; Robert H. Faust <bfaust@ccorpusa.com>; Sarah Aarons <sarah.aarons@arup.com>; alex.millender@jci.com
Cc: Lovelace, Ricky J - (CAR) <RLovelace@tcco.com>; Washington, George <George.Washington@watsonelec.com>; Costantino, Bernard <BCostantino@moodynolan.com>; Jonathan Roberts <jonathan.roberts@ccorpusa.com>; Peter Massoud <Peter.Massoud@arup.com>; okechukwu.chika@jci.com; Anderson, Bri'Shae D - (CAR) <bdanderson@tcco.com>
Subject: RE: IAAM - Electrical and Low Voltage Discussion Meeting Minutes

Team,

As a follow up to our call yesterday, three things:

- New slim style balcony camera options attached (Axis F documents), there is a cost upcharge for this (CP Marine is determining)
  - This is now in ARUP/Moody Nolan court to provide direction.
- AV E201 actual dimensions of room attached. There is also a helpful attachment showing rack dimensions in a bit more detail.
  - This is now in ARUP/Moody Nolan court to provide direction based on code allowances for space.
- JCI sent an email about how the speaker manufacturer has changed its global distribution chain and there are no speakers available until late January 2021.
  - This is now a red hot item as it will impact ceiling installation. We are hanging ceilings in January and rough in needs to be done before this.

We were looking forward to a lot of promised answers today based on notes below. Please let me know if there are any issues or changes.

Brianne Stasiak | Engineer
Turner Construction Company | mobile 980.556.6846 | bstasiak@tcco.com
170 Meeting Street | Suite 312 | Charleston, SC 29401

From: Stasiak, Brianne M - (CAR)
Sent: Tuesday, November 17, 2020 8:34 PM
To: Lewis, Walter - (CAR) <wlewis@tcco.com>; bteachey@bstonegroup.com; Winovich, Dale
<DWinovich@watsonelec.com>; Sloan, Kevin <KSloan@watsonelec.com>; Chris Nuss <cnuss@knowlogix.com>; Trae Dantzler <tdantzler@knowlogix.com>; Sahlender, Steven <steven.sahlender@goldbelt.com>; Cook, Julie
<jcook@moodynolan.com>; Robert H. Faust <bfaust@ccorpusa.com>; Sarah Aarons <sarah.aarons@arup.com>; alex.millender@jci.com
Cc: Lovelace, Ricky J - (CAR) <RLovelace@tcco.com>; Washington, George <George.Washington@watsonelec.com>; Costantino, Bernard <BCostantino@moodynolan.com>; Jonathan Roberts <jonathan.roberts@ccorpusa.com>; Peter Massoud <Peter.Massoud@arup.com>; okechukwu.chika@jci.com; Anderson, Bri'Shae D - (CAR) <bdanderson@tcco.com>
Team,

Thanks for calling into our 4PM follow up. Quick notes as follows:

- **CP Marine Open RFI’s**
  - RFI 451- Can be closed. Watson coordination needed for stair/mesh (refer to RFI 223).
  - RFI 499- E211 answer acceptable, need rack approved. Room E201 needs further information. T/B will provide current dimensions of room in field with electrical panels and sizes of recommended equipment. Arup/Moody Nolan to advise needed clearances based on this information. Shift of AV racks from JCI to CP Marine generated in Bulletin 16.2. Rack product data needs to be reviewed concurrently.
  - RFI 500- Closed.
  - RFI 504- Need Dorma confirmation through 1st Choice that acceptable. Moody Nolan/Arup to review and confirm. Internal coordination needed between subs for install.
  - RFI 505- New projector screen product data to be provided for pricing by CP Marine (JCI also pricing). Lead time approx. 4 weeks. (post meeting note: product data sent)
  - RFI 510- Arup to follow up (including on security items located within the GFRC columns)

- **Other items**
  - Projectors- JCI to send cut sheets for coordination and rough in
  - Projector/Screen final locations to be coordinated with ceiling coordination drawings (Moody Nolan/Arup to return and T/B will set up final coordination call to address notes with all subs)
  - G210 Speakers and Projectors- Moody Nolan suggested a coordination meeting to review this ceiling and honeycomb fabric to avoid any install issues.
  - G201 projector is located in corridor above ceiling
  - Closed RFI 502 answer reviewed- JCI will provide updated security layout. CP Marine to price scope shift from JCI to CP Marine for above ceiling rough in. JCI will call vendor to rush ship speakers of each type for ceiling layout.
  - It was confirmed that the smaller speakers in G206A and G207A are correct as the deleted walls that isolate these spaces are now installed by exhibit contractor. Plywood gets installed at ceilings in these locations for exhibit installation of walls.

Please let me know if I missed anything. I will schedule a follow up call as needed for any remaining open items as we receive additional information.

Thanks!

Brianne Stasiak | Engineer
Turner Construction Company | mobile 980.556.6846 | bstasiak@tcco.com
170 Meeting Street | Suite 312 | Charleston, SC 29401

From: Stasiak, Brianne M - (CAR)
Sent: Tuesday, November 17, 2020 10:29 AM
To: Lewis, Walter - (CAR); bteachey@bstonegroup.com; Winovich, Dale; Sloan, Kevin; Chris Nuss; Trae Dantzler; Sahlender, Steven; Cook, Julie; Robert H. Faust; Sarah Aarons; alex.millender@jci.com
Team,

Thanks for calling in today. Quick updates:

- **Watson Open RFI’s**
  - RFI 517 - Design team may be picking new camera. CP Marine to send cut sheets today of current camera. Answer on height from design team tomorrow.
  - RFI 518 - Closed. Follow RFI answer to increase thickness of wall.
  - RFI 520 - Design team committed to returning tomorrow.
  - RFI 521 - Closed. Switch can be moved.
  - RFI 522 - TB to coordinate. Meeting tomorrow to confirm door release at 4PM, then internal Watson/CP Marine follow up for power and controls coordination at 4:30PM.
  - RFI 523 - JCI/Design team to provide new solution by tomorrow. AV6 cannot accommodate more than 1-1/4” pipe, and provided box in original answer does not fit within thickness of wall.
  - RFI 524 - Closed. Amount confirmed.
  - RFI 525 - Closed. Location provided.
  - RFI 528 - Design team to return today.
  - RFI 533 - All 3 receptacles can be installed approx. center of North wall within each room (202A, 202B, and 203 all checked in field after call).
  - RFI 535 - Design team needs to review before commitment date provided.
  - RFI 536 - Design team will review and return, rough in not affected by this answer as location should not change, just potential for fixture change.

- **CP Marine / Low Voltage Items**
  - Follow up call at 4PM to discuss (I will try to get out some additional information before this call to steer the conversation)
    - RFI’s
    - Racks (within 211, 201, size, scope)
    - Projectors
    - Screens
    - Speakers

I will sort through submitted versus still required shop drawings that design team is requesting and an update will be provided.

Talk at 4PM. Invite sent!

_Brianne Stasiak_ | Engineer
__Turner Construction Company__ | mobile 980.556.6846 | bstasiak@tcco.com
170 Meeting Street | Suite 312 | Charleston, SC 29401

A link to the website, LinkedIn, Facebook, Twitter, YouTube, Pinterest

---

Electronic mail messages entering and leaving Arup business systems are scanned for viruses and acceptability of content.
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/1/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 166
Contract: Construction

Description of work to be performed: Intrusion Detection Changes as per JCI
This change is associated with the materials and labor in the changes to the data requirements
for the intrusion detection system as requested by JCI

Justification: A - Customer Requested Change

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $10,363.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 1, 2021

Approved:

(Circle One)
(N) (Y) YES
(Mike Risteski, Cumming Corp.)

(Circle One)
(N) (Y) YES
(Rick Holt, Cumming Corp.)

(Circle One)
(N) (Y) YES
(Robert Faust, Cumming Corp.)

(Circle One)
(N) (Y) YES
(Edmund V. Most, City of Charleston)

(Circle One)
(N) (Y) YES
(Bernard Costantini)

(Circle One)
(N) (Y) YES
(Bernard Costantini)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

**Work Description:**
The cost to supply and install additional work for the IAAM. See attached back up.

**Reason:**
- [X] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [ ] Design Issue

**Pricing:**
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO
- [ ] Lump Sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates

**Time Impact:**
- [X] Evaluating Potential for Time Impact
- [ ] Evaluated - NO TIME IMPACT
- [ ] TBD Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)
- [ ] Work has been Completed
- [ ] Work Has Commenced &/or is Ongoing
- [ ] Work Authorization is Requested By:

**Amount Requested:**
$10,363

**Submitted By:**
Turner Brownstone

**Contractor:**
TURNER BROWNSTONE

**Date Submitted:**
September 22, 2021

**Requested Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Reviewed By:**
Program Manager: **CUMMING**

**Authorized Action:**
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

**Approved By:**
Owner: **City of Charleston**

**Amount Approved:**
$10,363
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SUBTOTAL TRADE DIRECTS $9,561

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ESTIMATE TOTAL $10,363
## International African American Muesum
### DETAIL ESTIMATE OF DIRECTS

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### TRADE DIRECTS

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**DIRECT WORK SUBTOTAL** $9,561
International African American Museum (IAAM)

TO: Turner Construction
FOR: Change Order 9 – Intrusion Detections
(Shift from JCI to CP Marine)

A Small Disadvantaged Business, 8(a), Alaska Native Corporation (ANC), HUBZone and ISO 9001

Submitted By: Steven Sahlender
VP of Alaska Group
Goldbelt Inc./CP Marine LLC
603 Pilot House Drive Ste. 400
Newport News, VA 23606
Steven.sahlender@goldbelt.com
850-533-6352

Version: IAAM CO 9
Date: 3/17/2021
Project: CPMG – C03
## Security System

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<td>Bosch DS939 70’ DIAMETER CEILING MOUNT PIR</td>
<td>10</td>
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**Total Installation Price:** $9,083.31  
**Sales Tax:** $477.21  
**Grand Total:** $9,560.52

---

**Client:** Turner Construction  
**Date:**  

**Contractor:** CP Marine LLC  
**Date:**
Stephanie,

Thank you for forwarding the additional security design.

Julie, Leonard, Bob F.,

Attached is additional security design from the IAAM/JCI, please let us know if this will be incorporated into the contract documents and issued as a Bulletin or ASI for change management?

Trae and Steven,

Please provide a quote to me bteachey@bstonegroup.com and Walt Lewis wlewis@tcco.com to upgrade from your contracted materials, to the suggested additional security items provided by IAAM/JCI.

Best regards,

Bobby Teachey II, LEED GA | Project Manager
International African American Museum

Brownstone Construction Group
4055 Faber Place Drive, Suite 202 | North Charleston, SC 29405
Office: (843) 973-8660  | (C) (704) 239-9429
bteachey@bstonegroup.com | www.bstonegroup.com

From: Stephanie Starrett <stephanie.starrett@jci.com>
Sent: Thursday, June 25, 2020 10:55 AM
To: Trae Dantzler <tdantzler@knowlogix.com>
Cc: Bobby Teachey <bteachey@bstonegroup.com>; Bernice Chu <bchu@iaamuseum.org>; Cook, Julie <JCook@moodynolan.com>; Justin W Upchurch <Justin.W.Upchurch@jci.com>; Bob Faust (bfaust@ccorpusa.com) <bfaust@ccorpusa.com>
Subject: JCI - Additional Security BOM
I have attached the BOM for the additional items requested by Bernice. I would recommend that you work with Julie @ Moody Nolan directly since you will be mounting the devices and running the cable.

Please feel free to give me a call if you have any questions.

Stephanie Starrett
Johnson Controls, Inc.
Connected Technologies
Business Development Leader
Stephanie.starrett@jci.com
210.563.1114
Bill of Material Cost for Parts & Smarts Device Install with CABLING (Additional Security)

Intrusion Detection

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOSCH B9512-CC-930 CONTROL PANEL WITH CELLULAR BACKUP</td>
<td>1</td>
</tr>
<tr>
<td>Bosch B930 Keypads</td>
<td>2</td>
</tr>
<tr>
<td>Bosch B8103 Enclosure</td>
<td>1</td>
</tr>
<tr>
<td>Bosch D1640 Transformer</td>
<td>1</td>
</tr>
<tr>
<td>Bosch D166 Jacks</td>
<td>2</td>
</tr>
<tr>
<td>Bosch D101 Lock and Key</td>
<td>1</td>
</tr>
<tr>
<td>Bosch D9127T Popits</td>
<td>119</td>
</tr>
<tr>
<td>Bosch ISN-SM-50 Seismic Sensor</td>
<td>67</td>
</tr>
<tr>
<td>Installation of Devices Only, Program, and Test Device Structured Cabling</td>
<td>1</td>
</tr>
</tbody>
</table>

CCTV

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD IFS03D10CWIT Indoor Fixed IP Cameras</td>
<td>9</td>
</tr>
<tr>
<td>AD IFDRECMNT Mounts</td>
<td>9</td>
</tr>
<tr>
<td>AD IFS02P6ONWITA Outdoor PTZ IP Cameras</td>
<td>4</td>
</tr>
<tr>
<td>AD ROTRF Mounts</td>
<td>4</td>
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<tr>
<td>AD ADVECOI Licenses</td>
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</tr>
<tr>
<td>Installation of Devices Only, Program, and Test Device Structured Cabling</td>
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</tbody>
</table>

ACCESS CONTROL

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>HID R40 Card Reader</td>
<td>1</td>
</tr>
<tr>
<td>Installation, Program, and Test</td>
<td>1</td>
</tr>
</tbody>
</table>
To: Edmund V. Most  From: Mike Risteski  Date: 2/24/2022
Project: CP 1425 International African American Museum  Proposal No.: Change Order Request No. 180.2
Contractor: Turner Construction Company  Contract: Construction
[CMR](ARCHITECT)(ENGINEER)(OTHER)

Description of work to be performed: IAAM Scope Adds
A - Customer Requested Change
This change is associated with the materials and labor for the scope added by the IAAM
B - Code/Regulatory Agency Required Change
This request incorporates the thickened slab under the building for the mounting of the moss frames.
C - Errors and Omissions
The original footers that were in the GMP scope were abandoned, due to ongoing design of the moss frames
D - Replacing Unsuitable Soils
Second change is for the temporary IT equipment necessary for the testing and commissioning of the systems.
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error
(Indicate Reason for Change Proposal)

<table>
<thead>
<tr>
<th>Description of Work</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Add for Moss Frames</td>
<td>$18,727.00</td>
<td></td>
</tr>
<tr>
<td>Security Programming</td>
<td>$7,016.00</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$25,743.00</strong></td>
<td></td>
</tr>
</tbody>
</table>

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager  Independent Cost Estimate  Pre-Negotiation Position (PNP)  Cost Estimate (Expected to Exceed $10,000)  Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $25,743.00  Owner Contingency Allow. Bal.

Time Extension Requested:  Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved: Rick Holt, Cumming Corp.  Robert Faust, Cumming Corp.  Edmund V. Most, City of Charleston  Bernard Costantino, Moody Nolan

Decision needed by: February 24, 2022

(Circle One)  (NO) (YES)  Mike Risteski, Cumming Corp.

(Circle One)  (NO) (YES)  (Circle One)  (NO) (YES)  (Circle One)  (NO) (YES)
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | Provide additional Scopes of work (per Back Sheet) as Requested by the owner. |


| Pricing:         | □ ROM Estimate of GR's & Insurances □ ROM Estimate for Entire PCO □ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates |

| Time Impact:     | □ Evaluating Potential for Time Impact □ Evaluated - NO TIME IMPACT □ Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis) |

| Work Authorization is Requested By: | |

| Submitted By:    | Contractor: TURNER BROWNSTONE 02/28/2022 | Requested Action: |
| Walter Lewis | Project Engineer | □ Authorized to Proceed While Pricing □ Price Only □ Do Not Proceed or Price |

| Reviewed By:     | Program Manager: CUMMING | Authorized Action: |
| | | □ Authorized to Proceed While Pricing □ Price Only □ Do Not Proceed or Price |

| Approved By:     | Owner: City of Charleston |Authorized Action: |
| Edmund Most | | □ Authorized to Proceed While Pricing □ Price Only □ Do Not Proceed or Price |

<p>| Amount Requested | $ 52,284 | Amount Approved | $ 52,284 | Date Submitted: February 28, 2022 |</p>
<table>
<thead>
<tr>
<th>Item</th>
<th>Description of Work</th>
<th>DETAIL ESTIMATE OF DIRECTS</th>
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<tbody>
<tr>
<td>A1</td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’S)</td>
<td>SELF PERFORMED LABOR</td>
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<td>A2</td>
<td>GENERAL REQUIREMENTS (GR’s) &amp; GENERAL CONDITIONS (GC’S)</td>
<td>MATERIAL(S) &amp; EQUIPMENT</td>
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<td>A3</td>
<td>TRADE DIRECTS</td>
<td>$52,284.06</td>
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<tr>
<td>A4</td>
<td>SUBTOTAL TRADE DIRECTS</td>
<td>$52,284</td>
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<tr>
<td>A5</td>
<td>CCIP</td>
<td>$0.00</td>
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<tr>
<td>A6</td>
<td>Subguard</td>
<td>0.012 = $0.00</td>
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<td>A7</td>
<td>Builders Risk</td>
<td>0.84% = $0.00</td>
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<td>A8</td>
<td>Performance and Payment Bond</td>
<td>0.00732 = $0.00</td>
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<td>A9</td>
<td>Procore</td>
<td>0.04500% = $0.00</td>
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<tr>
<td>A10</td>
<td>Overhead and Profit</td>
<td>3.25% = $0.00</td>
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| SUBTOTAL | $52,284 |

ESTIMATE TOTAL $52,284
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<th>DIVISIONS OF WORK</th>
<th>RATE</th>
<th>Unit</th>
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<th>TOTAL</th>
<th>COMMENTS</th>
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<tr>
<td>GENERAL REQUIREMENTS (GR's) &amp; GENERAL CONDITIONS (GC's)</td>
<td>$0</td>
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<tr>
<td>TRADE DIRECTS</td>
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<td>DESCRIPTION</td>
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<tr>
<td>Additional Scope of Work</td>
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<tr>
<td>1 Additional Fence Northside of building</td>
<td>$15,746.00</td>
<td>1 LS</td>
<td></td>
<td>$15,746.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Concrete Moss Frames</td>
<td>$18,727.00</td>
<td>1 LS</td>
<td></td>
<td>$18,727.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Security Programing</td>
<td>$7,016.00</td>
<td>1 LS</td>
<td></td>
<td>$7,016.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscaping Northside</td>
<td>$10,795.00</td>
<td>1 LS</td>
<td></td>
<td>$10,795.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total 25,743.00

DIRECT WORK SUBTOTAL $52,284

COR No.: 180
Bob, Per our Conversation yesterday here is the break of your request.

Additional Scope Items
- Landscaping – 10,795.00
- Security Temp Programming 7,016.00
- Northside Fence 15,746.00
- Framing / Drywall / Painting Door Hardware 130,475.00
- Final Soil Removals & Trench Drain add 211,577.00
- Site Concrete & Moss Frame Foundation Changes 18,727.00

Work Not included – Pricing All most Complete for these items.
- Elevator Emergency Power Changes Approx 12K
- Wood at Walk Ways 120 – 180k
- Curb At Fire Lane Approx 15k
- Cat Walk Gate Approx 8k
- Lower Atrium Stair Railing Approx 10k
- South East Corner Approx 15k
- Steam TBD

Thanks
Walt

---

Thanks Walt,

We will need a breakdown of those 1st six items you list as to be included in the GMP. We will also need the breakdown of those 6 items that you indicate as not included in the proposed settlement number. We will review the letter with the City this week and have a response for you.
Thanks,

Bob

---

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Friday, January 14, 2022 4:30 PM
To: Robert H. Faust <bfaust@cumming-group.com>
Subject: GMP Dollar Amount

EXTERNAL EMAIL: Use caution with any response, links, or attachments.

Bob,

See Attached letter concerning the GMP dollars as discussed earlier today.

Thanks
Walt
**Project:** International African American Museum  
14 Wharfside Street  
City of Charleston  
823 Meeting Street  
Charleston, SC 29403  
**Contractor:** Turner Construction Company  
4601 Park Road, Suite 601  
Charlotte, NC 28209  

**Contract Information:**  
Contract For: General Construction  
Date: July 11, 2019  
Architect: Moody Noland, Inc.  
300 Spruce Street, Suite 300  
Columbus, OH 43215  

**Change Order Information:**  
Change Order Number: 016  
Date: February 23, 2022  
Construction Manager: Cumming Management Group, Inc.  
3820 Faber Place Drive, Suite 600  
N. Charleston, SC 29405  

---  

**The Contract is Changed as follows:**  
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)  

<table>
<thead>
<tr>
<th>PCO No.</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>178.2</td>
<td>Additional changes required by the City of Charleston, including SE corner repairs</td>
<td>$15,000.00</td>
</tr>
<tr>
<td>180.1</td>
<td>Landscaping changes on Northside</td>
<td>$10,795.00</td>
</tr>
<tr>
<td>180.1</td>
<td>Northside fence</td>
<td>$15,746.00</td>
</tr>
<tr>
<td>113</td>
<td>Bulletin 22 Fire Alarm/ Security Changes</td>
<td>$41,493.00</td>
</tr>
<tr>
<td>118</td>
<td>Bulletin 21, 21.1, 21.2 Security Cameras</td>
<td>$44,123.00</td>
</tr>
<tr>
<td>131</td>
<td>Granite Etching</td>
<td>$57,076.00</td>
</tr>
<tr>
<td>143</td>
<td>Kitchen FRP to Stainless Steel</td>
<td>$6,898.00</td>
</tr>
<tr>
<td>163</td>
<td>Stainless Steel Etching</td>
<td>$141,671.00</td>
</tr>
<tr>
<td>165</td>
<td>Data Cost for RFI 579</td>
<td>$3,163.00</td>
</tr>
<tr>
<td>166</td>
<td>Intrusion Detection - JCI</td>
<td>$10,363.00</td>
</tr>
<tr>
<td>180.2</td>
<td>Site concrete/Moss frames</td>
<td>$18,727.00</td>
</tr>
<tr>
<td>180.2</td>
<td>Security programming</td>
<td>$7,016.00</td>
</tr>
</tbody>
</table>

**Total Change Order Amount:** $372,071.00  

The original Guaranteed Maximum Price was $58,457,323.00  
The Net change by previously authorized Change Orders is $3,064,606.00  
The Guaranteed Maximum Price prior to this Change Order was $61,521,929.00  
The Guaranteed Maximum Price will be increased by this Change Order in the amount of $372,071.00  
The new Guaranteed Maximum Price including this Change Order will be $61,894,000.00  

The Contract Time will be unchanged by Zero (0) days.  
The Contractor's Work shall be substantially complete on August 31, 2021.  

**Note:** This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.  

**Not Valid Until Signed by the Architect, Construction Manager, Contractor, and Owner.**

---

Moody Noland, Inc.  
Architect (Firm name)  

Cumming Management Group, Inc.  
Construction Manager (Firm name)  

---

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User Notes:
<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>PRINTED NAME AND TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie Cook, AIA</td>
<td>ROBERT L. ARVIN</td>
</tr>
<tr>
<td>DATE:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONTRACTOR (Firm name)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Turner Construction Company</td>
<td></td>
</tr>
<tr>
<td>DATE:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>PRINTED NAME AND TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Dent, Vice President and General Manager</td>
<td></td>
</tr>
<tr>
<td>DATE:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>PRINTED NAME AND TITLE</th>
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<tbody>
<tr>
<td>Rick W. Holt, Vice President</td>
<td></td>
</tr>
<tr>
<td>DATE:</td>
<td>3/2/22</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OWNER (Firm name)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Charleston</td>
<td></td>
</tr>
<tr>
<td>DATE:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>PRINTED NAME AND TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mayor John J. Tecklenburg, Mayor - City of Charleston</td>
<td></td>
</tr>
<tr>
<td>DATE:</td>
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</tr>
</tbody>
</table>
## CO 16

### City Changes

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>COR 178.2 Additional Changes City Required</td>
<td>Line 132</td>
</tr>
<tr>
<td>SE corner repairs</td>
<td>($15,000.00)</td>
</tr>
<tr>
<td>COR 180.1 Landscaping Changes North Side</td>
<td>($10,795.00)</td>
</tr>
<tr>
<td>COR 180.1 Northside fence</td>
<td>($15,746.00)</td>
</tr>
</tbody>
</table>

Subtotal for City Changes: ($41,541.00)

---

### IAAM

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>COR #113 - Bulletin 22 Fire Alarm/ Security Changes</td>
<td>($41,493.00)</td>
</tr>
<tr>
<td>COR #118 - Bulletin 21, 21.1, 21.2 Security Cameras</td>
<td>($44,123.00)</td>
</tr>
<tr>
<td>COR #131 - Granite Etching</td>
<td>($57,076.00)</td>
</tr>
<tr>
<td>COR 143 Kitchen FRP to Stainless Steel</td>
<td>($6,898.00)</td>
</tr>
<tr>
<td>COR 163 Stainless Steel Etching</td>
<td>($141,671.00)</td>
</tr>
<tr>
<td>COR 164 Camera- Model Change</td>
<td>REJECTED</td>
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<tr>
<td>COR 165 Data Cost for RFI 579</td>
<td>($3,163.00)</td>
</tr>
<tr>
<td>COR 166 Intrusion Detection - JCI</td>
<td>($10,363.00)</td>
</tr>
<tr>
<td>COR 180.2 Site concrete/Moss frames</td>
<td>($18,727.00)</td>
</tr>
<tr>
<td>COR 180.2 Security programming</td>
<td>($7,016.00)</td>
</tr>
</tbody>
</table>

Subtotal for IAAM Changes: ($330,530.00)

---

City Change Orders (line 135) (increase) $41,541.00
IAAM Change Orders (line 149) (increase) $330,530.00
CO 16 Total $372,071.00
Current GMP Amount (C.O.15) (line 124) $61,521,929.00
New GMP Total (C.O.16) $61,894,000.00
**Change Order, Construction Manager as Adviser Edition**

<table>
<thead>
<tr>
<th>PROJECT: (name and address)</th>
<th>CONTRACT INFORMATION:</th>
<th>CHANGE ORDER INFORMATION:</th>
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<tbody>
<tr>
<td>International African American Museum</td>
<td>Contract For: General Construction</td>
<td>Change Order Number: 016</td>
</tr>
<tr>
<td>14 Wharfside Street</td>
<td>Date: July 11, 2019</td>
<td>Date: February 23, 2022</td>
</tr>
<tr>
<td>OWNER: (name and address)</td>
<td>ARCHITECT: (name and address)</td>
<td>CONSTRUCTION MANAGER: (name and address)</td>
</tr>
<tr>
<td>City of Charleston</td>
<td>Moody Noland, Inc.</td>
<td>Cumming Management Group, Inc.</td>
</tr>
<tr>
<td>823 Meeting Street</td>
<td>300 Spruce Street, Suite 300</td>
<td>3820 Faber Place Drive, Suite 600</td>
</tr>
<tr>
<td>Charleston, SC 29403</td>
<td>Columbus, OH 43215</td>
<td>N. Charleston, SC 29405</td>
</tr>
<tr>
<td>CONTRACTOR: (name and address)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turner Construction Company</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4601 Park Road, Suite 601</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charlotte, NC 28209</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**THE CONTRACT IS CHANGED AS FOLLOWS:**

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

PCO No. 178.2 - Additional changes required by the City of Charleston, including SE corner repairs: $15,000.00
PCO No. 180.1 - Landscaping changes on Northside: $10,795.00
PCO No. 180.1 - Northside fence: $15,746.00
PCO No. 113 - Bulletin 22 Fire Alarm/ Security Changes: $41,493.00
PCO No. 118 - Bulletin 21, 21.1, 21.2 Security Cameras: $44,123.00
PCO No. 131 - Granite Etching: $57,076.00
PCO No. 143 - Kitchen FRP to Stainless Steel: $6,898.00
PCO No. 163 - Stainless Steel Etching: $141,671.00
PCO No. 165 - Data Cost for RFI 579: $3,163.00
PCO No. 166 - Intrusion Detection - JC1: $10,363.00
PCO No. 180.2 - Site concrete/Moss frames: $18,727.00
PCO No. 180.2 - Security programming: $7,016.00

**TOTAL CHANGE ORDER AMOUNT: $372,071.00**

The original Guaranteed Maximum Price was $58,457,323.00
Net change by previously authorized Change Orders $3,064,606.00
The Guaranteed Maximum Price prior to this Change Order was $61,521,929.00
The Guaranteed Maximum Price will be increased by this Change Order in the amount of $372,071.00
The new Guaranteed Maximum Price including this Change Order will be $61,894,000.00

The Contract Time will be unchanged by Zero (0) days.
The Contractor’s Work shall be substantially complete on August 31, 2021.

**NOTE:** This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

**NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONSTRUCTION MANAGER, CONTRACTOR, AND OWNER.**

Moody Noland, Inc.  
**ARCHITECT (Firm name)**

Cumming Management Group, Inc.  
**CONSTRUCTION MANAGER (Firm name)**

---

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_USER NOTES:_

(3B9ADA41)
SIGNATURE
Julie Cook, AIA
PRINTED NAME AND TITLE
DATE:

Turner Construction Company
CONTRACTOR (Firm name)

SIGNATURE
Mark Dent, Vice President and General Manager
PRINTED NAME AND TITLE
DATE:

SIGNATURE
Rick W. Holt, Vice President
PRINTED NAME AND TITLE
DATE: 3/2/22

City of Charleston
OWNER (Firm name)

SIGNATURE
Mayor John J. Tecklenburg, Mayor - City of Charleston
PRINTED NAME AND TITLE
DATE:
### CO 16

<table>
<thead>
<tr>
<th>City Changes</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>COR 178.2 Additional Changes City Required</td>
<td>Line 132</td>
</tr>
<tr>
<td>SE corner repairs</td>
<td>($15,000.00)</td>
</tr>
<tr>
<td>COR 180.1 Landscaping Changes North Side</td>
<td>($10,795.00)</td>
</tr>
<tr>
<td>COR 180.1 Northside fence</td>
<td>($15,746.00)</td>
</tr>
<tr>
<td><strong>Subtotal for City Changes</strong></td>
<td><strong>($41,541.00)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IAAM</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>COR #113 - Bulletin 22 Fire Alarm/ Security Changes</td>
<td>($41,493.00)</td>
</tr>
<tr>
<td>COR #118 - Bulletin 21, 21.1, 21.2 Security Cameras</td>
<td>($44,123.00)</td>
</tr>
<tr>
<td>COR #131 - Granite Etching</td>
<td>($57,076.00)</td>
</tr>
<tr>
<td>COR 143 Kitchen FRP to Stainless Steel</td>
<td>($6,898.00)</td>
</tr>
<tr>
<td>COR 163 Stainless Steel Etching</td>
<td>($141,671.00)</td>
</tr>
<tr>
<td>COR 164 Camera- Model Change</td>
<td>REJECTED</td>
</tr>
<tr>
<td>COR 165 Data Cost for RFI 579</td>
<td>($3,163.00)</td>
</tr>
<tr>
<td>COR 166 Intrusion Detection - JCI</td>
<td>($10,363.00)</td>
</tr>
<tr>
<td>COR 180.2 Site concrete/Moss frames</td>
<td>($18,727.00)</td>
</tr>
<tr>
<td>COR 180.2 Security programming</td>
<td>($7,016.00)</td>
</tr>
<tr>
<td><strong>Subtotal for IAAM Changes</strong></td>
<td><strong>($330,530.00)</strong></td>
</tr>
</tbody>
</table>

| City Change Orders (line 135) Increase            | $41,541.00   |
| IAAM Change Orders (line 149) Increase            | $330,530.00  |
| **CO 16 Total**                                   | **$372,071.00** |
| Current GMP Amount (C.O.15) (line 124)            | $61,521,929.00 |
| **New GMP Total (C.O.16)**                        | **$61,894,000.00** |
PROJECT: (name and address)
International African American Museum
14 Wharfside Street
City of Charleston
823 Meeting Street
Charleston, SC 29403

OWNER: (name and address)

CONTRACTOR: (name and address)
Turner Construction Company
4601 Park Road, Suite 601
Charlotte, NC 28209

CHANGE ORDER INFORMATION:
Change Order Number: 016
Date: February 23, 2022

ARCHITECT: (name and address)
Moody Noland, Inc.
300 Spruce Street, Suite 300
Columbus, OH 43215

CONSTRUCTION MANAGER: (name and address)
Cumming Management Group, Inc.
3820 Faber Place Drive, Suite 600
N. Charleston, SC 29405

THE CONTRACT IS CHANGED AS FOLLOWS:
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

PCO No. 178.2 - Additional changes required by the City of Charleston, including SE corner repairs: $15,000.00
PCO No. 180.1 - Landscaping changes on Northside: $10,795.00
PCO No. 180.1 - Northside fence: $15,746.00
PCO No. 113 - Bulletin 22 Fire Alarm/ Security Changes: $41,493.00
PCO No. 118 - Bulletin 21, 21.1, 21.2 Security Cameras: $44,123.00
PCO No. 131 - Granite Etching: $57,076.00
PCO No. 143 - Kitchen FRP to Stainless Steel: $6,898.00
PCO No. 163 - Stainless Steel Etching: $141,671.00
PCO No. 165 - Data Cost for RFI 579: $3,163.00
PCO No. 166 - Intrusion Detection - JCI: $10,363.00
PCO No. 180.2 - Site concrete/Moss frames: $18,727.00
PCO No. 180.2 - Security programming: $7,016.00

TOTAL CHANGE ORDER AMOUNT: $372,071.00

The original Guaranteed Maximum Price was

$58,457,323.00

Net change by previously authorized Change Orders

$3,064,606.00

The Guaranteed Maximum Price prior to this Change Order was

$61,521,929.00

The Guaranteed Maximum Price will be increased by this Change Order in the amount of

$372,071.00

The new Guaranteed Maximum Price including this Change Order will be

$61,894,000.00

The Contract Time will be unchanged by Zero (0) days.
The Contractor's Work shall be substantially complete on August 31, 2021.

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONSTRUCTION MANAGER, CONTRACTOR, AND OWNER.

Moody Noland, Inc.
ARCHITECT (Firm name)

Cumming Management Group, Inc.
CONSTRUCTION MANAGER (Firm name)
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| City Change Orders (line 135) (increase)          | $41,541.00    |
| IAAM Change Orders (line 149) (Increase)          | $330,530.00   |
| **CO 16 Total**                                  | $372,071.00   |
| Current GMP Amount (C.O.15) (line 124)            | $61,521,929.00|
| **New GMP Total (C.O.16)**                       | $61,894,000.00|
Cumming
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 178.2
Contract: Construction

Description of work to be performed: City Requested - Changes to South East Corner
This change is associated with the labor and materials for the corrections to the southeast corner of the project. Due to the tide the soil on the south east corner will be washed out very quickly. The sea wall design doesn’t extend to the full extent of the project site, therefore new solution had to be implemented to stop the washing out of the soil.
Solution was provided by the architecture and engineering team as requested by the owner.

Justification: A - Customer Requested Change

Attachments: Change Proposal Request from CMR with Detailed Backup

Proposal Contingency Allow. Bal. $15,000
Time Extension Recommended: (Indicate Reason for Change Proposal)

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Approved:

(Circle One)

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Constantine, Moody Nolan
Robert LaChesnay
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Ristleski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 180.1
Contract: Construction

Description of work to be performed: City Scope Adds

This change is associated with the materials and labor for the scope added by the City of Charleston.

This request incorporates the landscaping changes on the north side of the project per the direction of Parks Dep.

The second change is for the additional fence needed around the pump house. City of Charleston Storm Water Management requested additional space to be provided between the transformer for the pump station and the new project fence.

<table>
<thead>
<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Additional Fence Northside of Building</td>
<td>$15,746.00</td>
</tr>
<tr>
<td>Landscaping Northside</td>
<td>$10,795.00</td>
</tr>
<tr>
<td>Total</td>
<td>$26,541.00</td>
</tr>
</tbody>
</table>

Justification: A - Customer Requested Change

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $26,541.00 Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Approved:

(Rick Holt, Cumming Corp.)

(Robert Faust, Cumming Corp.)

(Edmund V. Most, City of Charleston)

(Bernard Costantine, Moody Nolan)

(Robert Lawrence)
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/7/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 113 R
Contract: Construction

Description of work to be performed:
Securities, Fire Wall Changes - Bulletin 22
This change is associated with the material and labor to execute all changes captured by Bulletin 22
This bulleting changed the door hardware specification, changes to power for door alarm,
fire alarm relay per door alr hardware coordination and multiple security camera changes.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $41,493.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 7, 2021

Approved:

Signatures:
Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston
Bernard Costantino, Moody Nolan
Robert LaChiper
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 118R  
Contract: Construction

Description of work to be performed: Security Camera Changes - Bulletin 21, 21.1, 21.2
This change is associated with the material and labor to install additional cameras and location changes.
This change affects the conduit infrastructure for the cameras as well as the low voltage wiring.
The change was issued in Bulletins 21, 21.1, 21.2

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)

Proposal Cost (not to exceed): $44,123.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  

Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: July 12, 2021  

Approved:  

(Circle One)

Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantine, Moody Nolan

(Circle One)

(Mike Risteski, Cumming Corp.)
**Cumming**

*Change Order Proposal Review Form*

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 7/12/2021  
**Contractor:** Turner Construction Company  

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 131 R1  
**Contract:** Construction

<table>
<thead>
<tr>
<th>Description of work to be performed:</th>
<th>Granite Inscription</th>
</tr>
</thead>
<tbody>
<tr>
<td>This change is associated with the material and labor to perform the requested etching on the granite. This will be installed on the Memorial Wall. The cost also includes additional labor for the coordination and installation of the etched granite vs the plain granite tiles. The original cost for the Granite Inscription and additional burden of installation was $76,952.00. The masonry subcontractor decided to give a donation to the IAAM in the amount of $17,362.00. This brings the new total to $57,076.00.</td>
<td></td>
</tr>
</tbody>
</table>

| Justification: | A - Customer Requested Change |

| Attachments: | J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup |

| Proposal Cost (not to exceed): | **$57,076.00** Owner Contingency Allow. Bal. |
| Time Extension Requested: | Time Extension Recommended: |

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

---

**Decision needed by:**  
July 12, 2021

**Approved:**

---

Rick Holl, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan
To: Edmund V. Most  
From: Mike Risteski  
Date: 9/30/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 143 R1  
Contract: Construction  

Description of work to be performed: FRP Finish Kitchen BOH  
This change is associated with the material and labor for the installation of FRP panneling at the back of house kitchen area. This section was added as a change to the GMP drawings with Bulletin 15. Even though there have been a few COR associated with Bulletin 15 non of them included the price for the FRP panneling. The panneling is required by code and DHEC to make the walls washable.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000): X  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $6,898.00  
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: September 30, 2021

(NO) (YES) Mike Risteski, Cumming Corp.

Approved: Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Deputy City Manager
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 163  
Contract: Construction

(CMR)(ARCHITECT)(ENGINEER)(OTHER)

Description of work to be performed: Stainless Steel Band Etching

This change is associated with the labor and materials associated with the etching of the stainless steel band. The material of the stainless steel band, final sizing and finish were included in the GMP scope. This change order is only for the etching of the band to the design specifications and requirements.

Justification: A - Customer Requested Change

Attachments:  
J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  
Cost Estimate (Expected to Exceed $10,000)  
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $141,671.00  
Owner Contingency  
Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

(NO) (YES)  
(Circle One)

Mike Risteski, Cumming Corp.

Approved:

(NO) (YES)  
(Circle One)

Rick Holt, Cumming Corp.

(NO) (YES)  
(Circle One)

Robert Faust, Cumming Corp.

(NO) (YES)  
(Circle One)

Edmond V. Most, City of Charleston

(NO) (YES)  
(Circle One)

Bernard Costantino, Moody Nolan

Present Lawmaker
To: Edmund V. Most
From: Mike Risteski
Date: 10/1/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 165
Contract: Construction

Description of work to be performed: Changes in Data Requirements CPM (CO 6)
This change is associated with the materials and labor in the changes to the data requirements
as presented in the CP Marine CO 6 resulting from the response to RFI 499 and RFI 557

Justification: A - Customer Requested Change

Attachments:
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PWP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $3,163.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 1, 2021

(YES) (NO)
(Circle One)

Mike Risteski, Cumming Corp.

Approved:

(YES) (NO)
(Circle One)

Rick Holt, Cumming Corp.

(YES) (NO)
(Circle One)

Robert Faust, Cumming Corp.

(YES) (NO)
(Circle One)

Edmund V. Most, City of Charleston

(YES) (NO)
(Circle One)

Bernard Costantino

(YES) (NO)
(Circle One)

Bernard Costantino, Woody Nolan
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/1/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 166
Contract: Construction

Description of work to be performed: Intrusion Detection Changes as per JCI
This change is associated with the materials and labor in the changes to the data requirements for the intrusion detection system as requested by JCI.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $10,363.00 Owner Contingency Allow. Bal.
Time Extension Requested:
Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 1, 2021

(Circle One)

(YES)

(YES)

(YES)

(YES)

(YES)

Approved:

Rick Holt, Cumming Corp.

Robert Haust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Mayor, City of Charleston

Bernard Costantino, Mayor, City of Charleston

(Circle One)

Mike Risteski, Cumming Corp.

(Circle One)
To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 180.2
Contract: Construction

Description of work to be performed:

IAAM Scope Adds
This change is associated with the materials and labor for the scope added by the IAAM.
This request incorporates the thickened slab under the building for the mounting of the moss frames.
The original footer that were in the GMP scope were abandoned, due to ongoing design of the moss frames.
Second change is for the temporary IT equipment necessary for the testing and commissioning of the systems.

Concrete Add for Moss Frames $18,727.00
Security Programing $ 7,016.00
Total $25,743.00

Justification: A - Customer Requested Change

Attachments: JSA from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $25,743.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Approved: Rick Holt, Cumming Corp.
           Robert Faust, Cumming Corp.
           Edmund V. Most, City of Charleston
           Bernard Costantino, Moody Nolan

(Circle One)
(NO) (YES)
Mike Risteski, Cumming Corp.
PROJECT: (name and address)
International African American Museum
14 Wharfside Street
City of Charleston
823 Meeting Street
Charleston, SC 29403
OWNER: (name and address)
CONTRACTOR: (name and address)

CHANGE ORDER INFORMATION:
Change Order Number: 016
Date: February 23, 2022

CONSTRUCTION MANAGER: (name and address)
Cumming Management Group, Inc.
3820 Faber Place Drive, Suite 600
N. Charleston, SC 29405

THE CONTRACT IS CHANGED AS FOLLOWS:
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

PCO No. 178.2 - Additional changes required by the City of Charleston, including SE corner repairs: $15,000.00
PCO No. 180.1 - Landscaping changes on Northside: $10,795.00
PCO No. 180.1 - Northside fence: $15,746.00
PCO No. 113 - Bulletin 22 Fire Alarm/ Security Changes: $41,493.00
PCO No. 118 - Bulletin 21, 21.1, 21.2 Security Cameras: $44,123.00
PCO No. 131 - Granite Etching: $57,076.00
PCO No. 143 - Kitchen FRP to Stainless Steel: $6,898.00
PCO No. 163 - Stainless Steel Etching: $141,671.00
PCO No. 165 - Data Cost for RFI 579: $3,163.00
PCO No. 166 - Intrusion Detection - JCI: $10,363.00
PCO No. 180.2 - Site concrete/Moss frames: $18,727.00
PCO No. 180.2 - Security programming: $7,016.00

TOTAL CHANGE ORDER AMOUNT: $372,071.00

The original Guaranteed Maximum Price was $58,457,323.00
The Guaranteed Maximum Price prior to this Change Order was $3,064,606.00
The Guaranteed Maximum Price will be increased by this Change Order in the amount of $61,521,929.00
The new Guaranteed Maximum Price including this Change Order will be $372,071.00

The Contract Time will be unchanged by Zero (0) days.
The Contractor's Work shall be substantially complete on August 31, 2021.

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONSTRUCTION MANAGER, CONTRACTOR, AND OWNER.

Moody Noland, Inc.
ARCHITECT (Firm name)

Cumming Management Group, Inc.
CONSTRUCTION MANAGER (Firm name)
SIGNATURE
Julie Cook, AIA
PRINTED NAME AND TITLE

DATE:

Turner Construction Company
CONTRACTOR (Firm name)

SIGNATURE
Mark Dent, Vice President and General Manager
PRINTED NAME AND TITLE

DATE:

City of Charleston
OWNER (Firm name)

SIGNATURE
Rick W. Holt, Vice President
PRINTED NAME AND TITLE

DATE:

Mayor John J. Tecklenburg, Mayor - City of Charleston
PRINTED NAME AND TITLE

DATE:
### CO 16

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<thead>
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<td>($41,541.00)</td>
</tr>
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<td>($41,493.00)</td>
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</tr>
<tr>
<td>COR 163 Stainless Steel Etching</td>
<td>($141,671.00)</td>
</tr>
<tr>
<td>COR 164 Camera- Model Change</td>
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</tr>
<tr>
<td>COR 165 Data Cost for RFI 579</td>
<td>($3,163.00)</td>
</tr>
<tr>
<td>COR 166 Intrusion Detection - JCI</td>
<td>($10,363.00)</td>
</tr>
<tr>
<td>COR 180.2 Site concrete/Moss frames</td>
<td>($18,727.00)</td>
</tr>
<tr>
<td>COR 180.2 Security programming</td>
<td>($7,016.00)</td>
</tr>
<tr>
<td><strong>Subtotal for IAAM Changes</strong></td>
<td>($330,530.00)</td>
</tr>
</tbody>
</table>

City Change Orders (line 135) (increase) $41,541.00
IAAM Change Orders (line 149) (increase) $330,530.00
**CO 16 Total** $372,071.00
Current GMP Amount (C.O.15) (line 124) $61,521,929.00
**New GMP Total (C.O.16)** $61,894,000.00
Change Order, Construction Manager as Adviser Edition

<table>
<thead>
<tr>
<th>PROJECT: (name and address)</th>
<th>CONTRACT INFORMATION:</th>
<th>CHANGE ORDER INFORMATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>International African American Museum 14 Wharfside Street</td>
<td>Contract For: General Construction</td>
<td>Change Order Number: 016</td>
</tr>
<tr>
<td>OWNER: (name and address)</td>
<td>Date: July 11, 2019</td>
<td>Date: February 23, 2022</td>
</tr>
<tr>
<td>City of Charleston 823 Meeting Street Charleston, SC 29403</td>
<td>ARCHITECT: (name and address)</td>
<td>CONSTRUCTION MANAGER: (name and address)</td>
</tr>
<tr>
<td>CONTRACTOR: (name and address)</td>
<td>Moody Noland, Inc. 300 Spruce Street, Suite 300 Columbus, OH 43215</td>
<td>Cumming Management Group, Inc. 3820 Faber Place Drive, Suite 600 N. Charleston, SC 29405</td>
</tr>
<tr>
<td>Turner Construction Company 4601 Park Road, Suite 601 Charlotte, NC 28209</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THE CONTRACT IS CHANGED AS FOLLOWS:
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

PCO No. 178.2 - Additional changes required by the City of Charleston, including SE corner repairs: $15,000.00
PCO No. 180.1 - Landscaping changes on Northside: $10,795.00
PCO No. 180.1 - Northside fence: $15,746.00
PCO No. 113 - Bulletin 22 Fire Alarm/ Security Changes: $41,493.00
PCO No. 118 - Bulletin 21, 21.1, 21.2 Security Cameras: $44,123.00
PCO No. 131 - Granite Etching: $57,076.00
PCO No. 143 - Kitchen FRP to Stainless Steel: $6,898.00
PCO No. 163 - Stainless Steel Etching: $141,671.00
PCO No. 165 - Data Cost for RFI 579: $3,163.00
PCO No. 166 - Intrusion Detection - JC1: $10,363.00
PCO No. 180.2 - Site concrete/Moss frames: $18,727.00
PCO No. 180.2 - Security programming: $7,016.00

TOTAL CHANGE ORDER AMOUNT: $372,071.00

The original Guaranteed Maximum Price was $58,457,323.00
Net change by previously authorized Change Orders $3,064,606.00
The Guaranteed Maximum Price prior to this Change Order was $61,521,929.00
The Guaranteed Maximum Price will be increased by this Change Order in the amount of $372,071.00
The new Guaranteed Maximum Price including this Change Order will be $61,894,000.00

The Contract Time will be unchanged by Zero (0) days.
The Contractor's Work shall be substantially complete on August 31, 2021.

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONSTRUCTION MANAGER, CONTRACTOR, AND OWNER.

Moody Noland, Inc.  Cumming Management Group, Inc.
ARCHITECT (Firm name)  CONSTRUCTION MANAGER (Firm name)
SIGNATURE
Julie Cook, AIA
PRINTED NAME AND TITLE

DATE:

Turner Construction Company
CONTRACTOR (Firm name)

SIGNATURE
Mark Dent, Vice President and General Manager
PRINTED NAME AND TITLE

DATE:

SIGNATURE
Rick W. Holt, Vice President
PRINTED NAME AND TITLE

DATE:

City of Charleston
OWNER (Firm name)

SIGNATURE
Mayor John J. Tecklenburg, Mayor - City of Charleston
PRINTED NAME AND TITLE

DATE:
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14 Wharfside Street
City of Charleston
823 Meeting Street
Charleston, SC 29403

OWNER: Cumming Management Group, Inc.
3820 Faber Place Drive, Suite 600
N. Charleston, SC 29405

CONTRACTOR: Turner Construction Company
4601 Park Road, Suite 601
Charlotte, NC 28209

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$ 3,064,606.00
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$ 372,071.00
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Moody Noland, Inc.
Cumming Management Group, Inc.
ARCHITECT (Firm name) CONSTRUCTION MANAGER (Firm name)
SIGNATURE

Julie Cook, AIA

PRINTED NAME AND TITLE

DATE:

Turner Construction Company

CONTRACTOR (Firm name)

SIGNATURE

Mark Dent, Vice President and General Manager

PRINTED NAME AND TITLE

DATE:

Rick W. Holt, Vice President

PRINTED NAME AND TITLE

DATE:

City of Charleston

OWNER (Firm name)

SIGNATURE

Mayor John J. Tecklenburg, Mayor - City of Charleston

PRINTED NAME AND TITLE

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| IAAM Change Orders (line 149) (Increase) | $330,530.00 |
| **CO 16 Total** | **$372,071.00** |
| Current GMP Amount (C.O.:15) (line 124) | $61,521,929.00 |
| **New GMP Total (C.O.16)** | **$61,894,000.00** |
To: Edmund V. Most  
From: Mike Risteski  
Date: 2/24/2022  
Contractor: Turner Construction Company  
Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 178.2  
Contract: Construction

Description of work to be performed:  
This change is associated with the labor and materials for the corrections to the southeast corner  
of the project. Due to the tide the soil on the south east corner will be washed out very quickly. The sea wall design  
doesn't extend to the full extent of the project site, therefore new solution had to be implemented to stop the  
washing out of the soil.  
Solution was provided by the architecture and engineering team as requested by the owner.

Justification:  
A - Customer Requested Change

Attachments: ____________________________  
Proposal Cost Category:  
Cost Estimate (Expected to Exceed  
$10,000)  
Change Proposal Request from CMR with  
Detailed Backup  
Contingency Allow. Bal.  
Time Extension Recommended:  
Special Circum...  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: February 24, 2022  

Approved:  
Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costonaro, Moody Nolan  

(Circle One)  

(Circle One)  

(Circle One)  

(Circle One)  

(Circle One)  

(Circle One)
Date Submitted: February 15, 2022

To: Edmund Most
City of Charleston

Re: International African American Muesum

Additional Owner Requests

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
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<th>Work Description:</th>
<th>Provide additional Scopes of work (per Back Sheet) as Requested by the owner.</th>
</tr>
</thead>
</table>

|------------------|-----------------|-------------------|----------------------|--------------|

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<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
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<table>
<thead>
<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)</th>
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</table>

<table>
<thead>
<tr>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
<th>Work Authorization is Requested By:</th>
</tr>
</thead>
</table>

Submitted By: Walter Lewis Project Engineer
Dated: 02/15/2022

Contractor: TURNER BROWNSTONE

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING
Dated: / / 

Approved By: Owner: City of Charleston
Dated: / / 

$15,000.00

$45,000

$15,000.00
<table>
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<th>Item</th>
<th>Amount</th>
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<tbody>
<tr>
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<tr>
<td>0.45% Proceed</td>
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<td>0.0032 Performance and Payment Bond</td>
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<td>0.84% Builders Risk</td>
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**Subtotal:** $45,000

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**Trade Directs**

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<th>Item</th>
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<tr>
<td>Conditions (G.C.S) Material &amp; Equipment</td>
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<tr>
<td>General Requirements (G.R.S) Self-Performed Labor</td>
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**Description of Work**

---

**General Summary of the Estimate**

International African American Museum

---

**COR No.:** 178
<table>
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<tr>
<th>Description</th>
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<tr>
<td>Architectural Design</td>
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<tr>
<td>Drawings</td>
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<tr>
<td>Lighting &amp; Supports</td>
<td>$12,000.00</td>
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<td>$12,000.00</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Scope of Work**

**Trade Directs**

**General Requirements (GR) & General Conditions (GC)**
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 180.1
Contract: Construction

Description of work to be performed:

City Scope Adds

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
J - Value Engineering Change
K - Accounting Error

Indicate Reason for Change Proposal:

Additional Fence Northside of Building $ 15,746.00
Landscaping Northside $ 10,795.00
Total $ 26,541.00

Justification: A - Customer Requested Change

Attachments:

J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $26,541.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

(YES) (NO) (Circle One)

Approved:

Rick Holt, Cumming Corp.
Robert Faust, Cumming Corp.
Edmund V. Most, City of Charleston

Bernard Costain, Moody Nolan

(YES) (NO) (Circle One)

Mike Risteski, Cumming Corp.
Date Submitted: **February 28, 2022**

To:  
**Edmund Most**  
**City of Charleston**

Re: **International African American Muesum**  
**Misc Scope Adds - See Back Page**

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

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</table>

**Reason:**  
- [X] Owner Directive
- [ ] Code / Regulatory
- [ ] Unforeseen Condition
- [ ] Design Issue

**Pricing:**  
- [ ] lump sum or **Firm Fixed Unit Pricing** for Trade Contractors - See Detailed Estimates
- [ ] ROM Estimate of GR's & Insurances
- [ ] ROM Estimate for Entire PCO

**Time Impact:**  
- [ ] Evaluating Potential for Time Impact
- [ ] Work has been Completed

**Submitted By:**  
**Contractor:** **TURNER BROWNSTONE**  
02/28/2022  
Walter Lewis  
Project Engineer  
Dated

**Requested Action:**  
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Authorized Action:**  
- [ ] Authorized to Proceed While Pricing
- [ ] Price Only
- [ ] Do Not Proceed or Price

**Reviewed By:**  
**Program Manager:** **CUMMING**  
Dated

**Approved By:**  
**Owner:** **City of Charleston**  
$52,284  
$26,541.00  
Dated
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate (F.S.)</th>
<th>Units</th>
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<th>Subtotal</th>
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<tbody>
<tr>
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</tr>
</tbody>
</table>

**Total:** 26,541.00

---

**General Requirements (GR.9) & General Conditions (GC.9)**

---

**Turner**

**International African American Museum**

**COR NO.:** 180
Bob, Per our Conversation yesterday here is the break of your request.

Additional Scope Items

- Landscaping — 10,795.00
- Security Temp Programing 7,016.00
- Northside Fence 15,746.00
- Framing / Drywall / Painting Door Hardware 130,475.00
- Final Soil Removals & Trench Drain add 211,577.00
- Site Concrete & Moss Frame Foundation Changes 18,727.00

Work Not included – Pricing All most Complete for these items.
- Elevator Emergency Power Changes Approx 12K
- Wood at Walk Ways 120 – 180k
- Curb At Fire Lane Approx 15k
- Cat Walk Gate Approx 8k
- Lower Atrium Stair Railing Approx 10k
- South East Corner Approx 15k
- Steam TBD

Thanks
Walt
Thanks,

Bob

ROBERT H. FAUST, P.E.
Senior Project Manager

CUMMING
Building Value Through Expertise

bfaust@cumming-group.com
P: +1 (843) 203-2906
C: +1 (843) 847-1750
3820 Faber Place Drive, Suite 600,
North Charleston, SC 29405
cumming-group.com

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From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Friday, January 14, 2022 4:30 PM
To: Robert H. Faust <bfaust@cumming-group.com>
Subject: GMP Dollar Amount

EXTERNAL EMAIL : Use caution with any response, links, or attachments.

Bob,

See Attached letter concerning the GMP dollars as discussed earlier today.

Thanks
Walt

Walter Lewis | Project Manager
Turner Construction Company
Mobile: 704.936.6991
Email: wlewis@tcco.com
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/7/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 113 R
Contract: Construction

Description of work to be performed: Security, Fire Wall Changes - Bulletin 22

This change is associated with the material and labor to execute all changes captured by Bulletin 22
This bulleting changed the door hardware specification, changes to power for door alarm,
fire alarm relay per door ahardware coordination and multiple security camera changes,

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $41,493.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 7, 2021

(Circle One)

Mike Risteski, Cumming Corp.

(Circle One)

Rick Holt, Cumming Corp.

(Circle One)

Robert Faust, Cumming Corp.

(Circle One)

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Robert Lashley
Date Submitted: September 21, 2021

To: Edmund Most
    City of Charleston

Re: International African American Muesum
    Bulletin 22R1

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | Work Associated Bulletin 22 R1 - See additional Comments |

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
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<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
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<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
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<tr>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
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Submitted By: Contractor: **TURNER BROWNSTONE**

09/21/2021

$41,493

Requested Action:

Authorized to Proceed While Pricing | Price Only | Do Not Proceed or Price

Authorized Action:

Authorized to Proceed While Pricing | Price Only | Do Not Proceed or Price

Reviewed By: Program Manager: **CUMMING**

Dated

Approved By: Owner: **City of Charleston**

Dated

$41,493

Amount Approved
### Trade Directs

<table>
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<th>$38,166.00</th>
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<td>Material(s) &amp; Equipment</td>
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### Estimate Details

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<th>Cost</th>
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<td>Builders Risk</td>
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<td>Subgrade</td>
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<td>CIP</td>
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**Subtotal**: $38,166

---

**COR No.**: 113R

General Summary of the Estimate

International African American Museum
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<th>DESCRIPTION</th>
<th>RATE</th>
<th>UNITS</th>
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<td>$3,549.00</td>
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</table>

Additional Scope of Work

---

**COR NO**: 113R

Turner

International African American Museum
Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 22 as outlined on the back up page. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.


Pricing:  [ ] ROM Estimate of GR's & Insurances  [ ] ROM Estimate for Entire PCO  [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:  [X] Evaluating Potential for Time Impact  [ ] Evaluated - NO TIME IMPACT  [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)

[ ] Work has been Completed  [ ] Work Has Commenced &/or is Ongoing  [ ] Work Authorization is Requested By:

Submitted By:  [Signature]  04/15/2021
Walter Lewis  Project Engineer

Contractor:  TURNER BROWNSTONE  04/15/2021  $72,894

Requested Action:  [ ] Authorized to Proceed While Pricing  [ ] Price Only  [ ] Do Not Proceed or Price

Authorized Action:  [ ] Authorized to Proceed While Pricing  [ ] Price Only  [ ] Do Not Proceed or Price

Reviewed By:  Program Manager:  CUMMING

Approved By:  Owner:  City of Charleston

$72,894

Amount Requested

Amount Approved
ESTIMATE TOTAL

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<td>Trade Directs</td>
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<tr>
<td></td>
<td>General Requirements (Gr) &amp; General Conditions (Gr) &amp; Material(s) &amp; Equipment</td>
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<tr>
<td></td>
<td>Self-Performed Labor</td>
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**Cor No.**: 113

General Summary of the Estimate

International African American Museum

Turner
**Direct Work Subtotal**

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<tr>
<td>644.44</td>
<td>LS</td>
<td>$</td>
<td>1</td>
<td>$</td>
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**Additional Scope of Work**

**General Requirements (G.R.) & General Conditions (G.C.)**

**COR No.: 113**

**International African American Museum**
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
Pricing per Bulletin #22 Documents.

Adjust camera and security locations per Bulletin #22. No cost for base contract adjustments prior to rough in.
Level 2B - 2 additional camera locations.
Level 3A - 3 additional camera locations.

Provide new power circuits to door alarms at V204 and V205.
Furnish additional 120 volt, 20 amp circuit breakers for new door alarm power circuits. Per designated panel.

Level 2 - (2) additional security doors’ raceways and fire alarm relay.

Fire alarm device relocation Level 1 ceiling.

Includes additional 3” EMT conduit with compression fittings for low voltage raceways and support racks.
This change order includes overtime for this work scope only.
All low voltage cabling, equipment and devices furnished and installed by others.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 8 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_17>.

Itemized Breakdown

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<th>System</th>
<th>Material($)</th>
<th>Labor Hrs</th>
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<tr>
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<td>66.84</td>
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<tr>
<td>SECURITY AND FIRE ALARM</td>
<td>901.81</td>
<td>42.66</td>
</tr>
<tr>
<td>LARGE LOW VOLTAGE RACEWAY</td>
<td>9,477.31</td>
<td>162.14</td>
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<tr>
<td>Total</td>
<td>11,646.89</td>
<td>271.64</td>
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BRANCH WIRING
**PROPOSED CHANGE ORDER**

**WATSON ELECTRICAL CONSTRUCTION CO.**
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

**Turner Construction / Brownstone Management and Design**

**Client Address:**

**POC# 17**

<table>
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<th>Total Hrs.</th>
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<tr>
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<tr>
<td>3/4&quot; COUPLING COMP STL - EMT</td>
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<td>11.91</td>
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<tr>
<td>1/2 OR 3/4&quot; CONDUIT SNAP CLOSE CLIP W/ 1/4-20 THRD HOLE</td>
<td>30</td>
<td>15.65</td>
<td>5.52</td>
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<tr>
<td>1/2 OR 3/4&quot; CONDUIT+BOX SUPPORT W/ 9/32&quot; MNTG HOLE</td>
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<td>29.38</td>
<td>0.62</td>
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<tr>
<td>#10 THHN SOLID BLACK</td>
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<tr>
<td>WIRE CONN RED</td>
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<td>4.71</td>
<td>3.31</td>
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<tr>
<td>4x1 1/2&quot; SQ BOX COMB KO</td>
<td>6</td>
<td>88.14</td>
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<tr>
<td>4&quot; SQ BLANK COVER</td>
<td>6</td>
<td>32.75</td>
<td>0.62</td>
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<tr>
<td>#8x 1/2 WAFER HEAD SELF-TAP STUD SCREW - 12G</td>
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<td>36</td>
<td>52.24</td>
<td>6.21</td>
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</table>

**Totals**                                                                  |     | 1,667      | 1,267.77   | 66.85      |

**SECURITY AND FIRE ALARM**

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<tr>
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<th>Total Hrs.</th>
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<tbody>
<tr>
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<tr>
<td>1&quot; CONDUIT - EMT</td>
<td>107</td>
<td>275.96</td>
<td>8.37</td>
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<tr>
<td>3/4&quot; CONN SS STL - EMT</td>
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<tr>
<td>3/4&quot; COUPLING SS STL - EMT</td>
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<td>3/4&quot; CONN COMP STL - EMT</td>
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<td>0.96</td>
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<tr>
<td>1/2&quot; JET LINE PULL KIT</td>
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<td>0.00</td>
<td>1.23</td>
</tr>
<tr>
<td>1/8&quot; POLYTWIN</td>
<td>26</td>
<td>0.31</td>
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<tr>
<td>4 11/16x 2 1/8&quot; SQ BOX 1&quot; KO</td>
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<td>100.95</td>
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<td>4.35</td>
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<td>MONITOR MODULE MULTIPLEX</td>
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**Totals**                                                                  |     | 508        | 901.80     | 42.65      |

**LARGE LOW VOLTAGE RACEWAY**

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<tr>
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<td>2</td>
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</table>

**ORIGINAL**
## PROPOSED CHANGE ORDER

**WATSON ELECTRICAL CONSTRUCTION CO.**
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

**PCO # 17**
01/06/2020

**Project Name:** IAAM Museum
**Project Number:** IAAM Museum
**Page Number:** 3

### Description

<table>
<thead>
<tr>
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<tr>
<td>1 1/8&quot; 6 1/2X 114 STRUT GALV</td>
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<td>117.23</td>
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<tr>
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### Totals

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### Summary

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### Material Total

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<tbody>
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<td>JOURNEYMAN</td>
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<td>FOREMAN</td>
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<td>SAFETY</td>
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<td>OVERTIME ADJUSTMENT</td>
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<td>VDC</td>
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<td>CONSUMABLES</td>
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<td>HEALTH AND HYGIENE</td>
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<td>PER DIEM</td>
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<td>SCISSOR LIFT</td>
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### Subtotal

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<td>Overhead</td>
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<td>Markup</td>
<td>(5.00 %)</td>
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<td>1,410.36</td>
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### Subtotal

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<tr>
<td>FIRE ALARM</td>
<td>($2,500.00 + 0.00 % + 0.00 % + 10.00 %)</td>
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### Subtotal

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<tr>
<td>Adjustment #1 - Bond</td>
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### Final Amount

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<td>$64,424.15</td>
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### CONTRACTOR CERTIFICATION

**ORIGINAL**
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

PCO # 17
0/16/2020
Project Name: IAAM Museum
Project Number: IAAM Museum
Page Number: 4

Name: ________________________________
Date: ________________________________
Signature: ____________________________

Hereby certify that this quotation is complete and accurate based on the information provided.

CLIENT ACCEPTANCE

PCO # 17
Final Amount: $64,424.15

Name: ________________________________
Date: ________________________________
Signature: ____________________________
Change Order #: ____________________________

Hereby accept this quotation and authorize the contractor to complete the above described work.
Request for Change Order Approval

Attention: Brianne Stasiak  
RCO ID: 5  
Job Name: International African American Museum Spec Sections:  
RCO Date: 12/16/20  
ASI # & Date: Email 12/14/20  
Scope: Pocket Door Trim

- Our price is based on this proposal and this proposal will become part of any signed contract. In the event of conflict between the scope as defined in the proposal quantifications and any other documents, the proposal quantification governs.  
- We have made a detailed quantification of what is in our price. If an item does not appear in this quantification, it is not included.  
- SCHEDULE: Submittals 5 days from notification, Fabrication pending material lead times and availability, installation as required

Cost & Schedule $2,625.00

RCO Quantifications & Exclusions
- Provide and install 1x wood jambs and headers with ¾” x 1-1/4” S4S casing  
  - PG Poplar, finishing by others  
  - Pocket doors provided and installed by others  
- Includes Doors: 202A, 202B, 203, 210, 318, T302, T308

<table>
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<tbody>
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<td>15% OH/P</td>
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<td>Total RCO</td>
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<td>2,625.00</td>
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Walt,
Refining this down.
Attached are the Contract drawings and our BIM drawing where through discussions with Daron P and CP Marine we added the clouded (on BIM install drawing) low voltage raceways.
When Bulletin #22 came our Daron, Tony (our BIM coordinator) and I discussed adding it to the Bulletin #22 pricing. I also specifically called it out on the proposal to make sure it was seen and reviewed.
We did install those raceways and subsequently added to or reworked a small portion of them in a future revision. Point being, they did get used by CP Marine.

Dale Winovich
Operations Manager

3215 Fortune Drive
North Charleston, SC 29418
M: 843-637-5873
dwinovich@watsonelec.com

This email has been scanned for email related threats and delivered safely by Mimecast.
To: Edmund V. Most  
From: Mike Risteski  
Date: 7/12/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 118R  
Contract: Construction

Description of work to be performed: Security Camera Changes - Bulletin 21, 21.1, 21.2  
This change is associated with the material and labor to install additional cameras and location changes.  
This change affects the conduit infrastructure for the cameras as well as the low voltage wiring.  
The change was issued in Bulletins 21, 21.1, 21.2  

Justification: A - Customer Requested Change  

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Proposal Cost (not to exceed): $44,123.00  
Owner Contingency Allow. Bal.  
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  
Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: July 12, 2021  

Approved:  

Rick Holt, Cumming Corp.  
Robert Faust, Cumming Corp.  
Edmund V. Most, City of Charleston  
Bernard Costantine, Moody Nolan  

(Circle One):  
(NO)  
(YES)  

(Circle One):  
(NO)  
(YES)  

(Circle One):  
(NO)  
(YES)  

(Circle One):  
(NO)  
(YES)  

(Circle One):  
(NO)  
(YES)
Date Submitted: April 8, 2021

To: Edmund Most
City of Charleston

Re: International African American Museum

Bulletin 21, 21.1, 21.2 Security Changes

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and install work associated with Bulletin 21, 21.1, 21.2. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor's quote(s) &/or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason: X Owner Directive

Pricing: 

Time Impact: 

X Work has been Completed

Submitted By: Contractor: TURNER BROWNSTONE

04/08/21 $44,123 Amount Requested

Reviewed By: Program Manager: CUMMING

/ / Dated

Approved By: Owner: City of Charleston

/ / $44,123 Amount Approved
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<td>$0</td>
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<td>2</td>
<td>Self-Performed Labor</td>
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**Subtotal Trade Directs**: $40,685

**Subtotal Trade Directs**: $40,685

**General Summary of the Estimate**

International African American Museum

**Cor No.**: 118

Turner
TRADE DIRECTS

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<tr>
<th>DESCRIPTION</th>
<th>RATE</th>
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<td>CP Minors - Camera Changes</td>
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<tr>
<td>$18,871.20</td>
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<tr>
<td>20,740.00</td>
<td>1.5</td>
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DESCRIPTION

GENERAL REQUIREMENTS (G.R.) & GENERAL CONDITIONS (G.C.)

COR NO.: 118

INTERNATIONAL AFRICAN AMERICAN MUSEUM

TURNER
International African American Museum (IAAM)

TO: Turner Construction
FOR: Change Order 1 – EOL Camera Change

A Small Disadvantaged Business, 8(a), Alaska Native Corporation (ANC), HUBZone and ISO 9001

Submitted By: Steven Sahlender
Director of Operations
CP Marine LLC
15 Oregon Ave, Suite 203
Tacoma, WA 98409
Steven.sahlender@goldbelt.com
850-533-6352

Version: IAAM CO 1
Date: 1/28/2021
Project: CPMG – C03
<table>
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<th>Description</th>
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<td>Axis P3225VMKII/1080P/DOM/3-10MM</td>
<td>0.97</td>
<td>($65,530.29)</td>
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<td>P3225VMKII/1080P/DOM/3-10MM</td>
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<td>Axis Communications Axis P3245-LV Network Camera</td>
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<td>P3245-LV 2MP IR H.265 Indoor Dome IP Security Camera with Lightfinder</td>
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<td>CCTV System Total</td>
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<td>Grand Total</td>
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<td>$20,714.28</td>
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Arup: Verify count. Bulletin 21 reduced camera count on level 1 from 54 to 15.

Client: Brianne Stasiak
Contractor: CP Marine LLC

Date

Date

CP Marine LLC
PROPOSED CHANGE ORDER

WATSON ELECTRICAL CONSTRUCTION CO.
3215 Fortune Dr.
Suite 109
Charleston, SC 29418

Client Address:

Turner Construction / Brownstone Management and Design
Contact: Walt Lewis
4055 Faber Place
Suite 202
North Charleston, South Carolina 29405

Work Description

SCOPE OF WORK:
Bulletin 21.1 Security Cameras

(15) additional security cameras, raceway only. Level 1.
1" EMT with pullstring.
Single gang backbox.
Raceways are individual raceway per camera location.

Reuse existing conduit racking where available.

Cameras, cabling, terminations by others (furnishing and installing).

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within 10 days from the date of receipt.
We request a time extension of 6 days.
We will supply and install all materials, labor, and equipment as per your instructions on <CCN_43>.

<table>
<thead>
<tr>
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<td>1&quot; CONN SS STL - EMT</td>
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<td>1&quot; COUPLING SS STL - EMT</td>
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<td>13.74</td>
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<td>1&quot; SNAP CLOSE CLIP - SIDE MNT TO MTL STUD SUPPORT</td>
<td>30</td>
<td>71.80</td>
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<tr>
<td>1/8&quot; POLYTWIN</td>
<td>2,013</td>
<td>25.22</td>
<td>2.01</td>
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<td>#8x 1/2 WAFFER HEAD SHEET MTL SCREW</td>
<td>60</td>
<td>4.20</td>
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Summary

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<td>Material Tax</td>
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<td><strong>7,038.03</strong></td>
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<td>5,980.50</td>
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<td>FOREMAN</td>
<td>(19.94 Hrs @ $50.00)</td>
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<td>997.00</td>
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<td>SAFETY @ 3.5%</td>
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<td>241.80</td>
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<td>PM&amp;S</td>
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<td>944.94</td>
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</table>

ORIGINAL

Arup: Cameras were not additional, they were relocated/several removed. Also, conduit was installed ahead of approved shop drawing submittal. Resubmittal of level 1 conduit shop drawing was submitted Dec 2, 2020. Bulletin 21 was issued on Aug 7, 2020.
# PROPOSED CHANGE ORDER

<table>
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<tr>
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<tbody>
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<td>157.49</td>
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<tr>
<td>VEHICLES</td>
<td>(157.49 @ 0.00 @ $2.50 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>393.73</td>
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<td>CONSUMABLES</td>
<td>(157.49 @ 0.00 @ $0.30 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>47.25</td>
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<td>HEALTH AND HYGEINE</td>
<td>(157.49 @ 0.00 @ $1.00 + 0.000 % + 0.000 % + 0.000 %)</td>
<td>157.49</td>
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<td>SCISSOR LIFT</td>
<td>(1.00 @ 2.00 @ $575.00 + 0.000 % + 0.000 % + 0.000 %)</td>
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**Subtotal**: 17,108.23  
**Overhead**: 17,108.23 @ 15.000 %  
**Subtotal**: 19,674.46  
**Adjustment #1-BOND**: 19,674.46 @ 1.000 %

**Final Amount**: $19,871.20

## CONTRACTOR CERTIFICATION

Name:  
Date:  
Signature:  

I hereby certify that this quotation is complete and accurate based on the information provided.

## CLIENT ACCEPTANCE

PCO #: 43  
Final Amount: $19,871.20

Name:  
Date:  
Signature:  

I hereby accept this quotation and authorize the contractor to complete the above described work.

ORIGINAL
BULLETIN #021.1

PROJECT NO. 15490

TO Bobby Teachey

DESCRIPTION: Revise the number and location of security cameras on Level 01.

DRAWINGS:
A-211a Level 01 RCP Part A
A-211b Level 01 RCP Part B

DISTRIBUTION:
Rick Davis
Bri'Shae Anderson
Walt Lewis
Brianne Stasiak
Edmund Most
Rick Holt
Robert Faust
Jonathan Roberts
Julie Cook
Bob Larrimer
**Change Order Proposal Review Form**

**To:** Edmund V. Most  
**From:** Mike Risteski  
**Date:** 7/12/2021  
**Contractor:** Turner Construction Company

**Project:** CP 1425 International African American Museum  
**Project No.:** CP 1425  
**Proposal No.:** Change Order Request No. 131 R1  
**Contract:** Construction (Circle One)

**Description of work to be performed:** Granite Inscription  
This change is associated with the material and labor to perform the requested etching on the granite.  
This will be installed on the Memorial Wall. The cost also includes additional labor for the coordination and installation of the etched granite vs the plain granite slabs.  
The original cost for the Granite Inscription and additional burden of installation was 76,652.00. The masonry subcontractor decided to give a donation to the IAAM in the amount of 17,562.00. This brings the new total to 57,076.00

**Justification:**  
A - Customer Requested Change

**Attachments:**  
- J&A from Project Manager  
- Independent Cost Estimate  
- Pre-Negotiation Position (PNP)

**Cost Estimate (Expected to Exceed $10,000):**  
Change Proposal Request from CMR with Detailed Backup  

**Proposal Cost (not to exceed):** $57,076.00  
Owner Contingency Allow. Bal.

**Time Extension Requested:**  
Time Extension Recommended:

**Special Circumstances:**

**Consequence of Rejection:**

**Comments by Supervisor:**

**Decision needed by:** July 12, 2021

**Approved:**
- Rick Holl, Cumming Corp. (YES)
- Robert Faust, Cumming Corp.
- Edmund V. Most, City of Charleston
- Bernard Costantino, Moody Nolan (YES)
Turner Brownstone

Date Submitted: July 28, 2021

To: Edmund Most
City of Charleston

Re: International African American Muesum
Granite Inscription Cost

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

Work Description:
Provide all required Labor, Materials, Equipment, and Administrative/Support costs to supply and layout granite inscription. They will be per specs and drawings issued to Turner, scope of work as detailed within the Subcontractor’s quote(s) & or correspondence attached. The design has started and the will be submitted based on the new findings. Work in the field can not start with out signed change order.

Reason:

☑ Owner Directive
☐ Code / Regulatory
☐ Unforeseen Condition
☐ Design Issue

Pricing:
☐ ROM Estimate of GR’s & Insurances
☐ ROM Estimate for Entire PCO
☐ Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

Time Impact:
☐ Evaluating Potential for Time Impact
☐ Evaluated - NO TIME IMPACT
☐ Calendar Days Requested (See attached FRAGMENT/Schedule Impact Analysis)
☐ Work Authorization is Requested By:

☐ Work has been Completed
☐ Work Has Commenced &/or is Ongoing

Submitted By: Contractor: TURNER BROWNSTONE

07/28/21

$57,076
Amount Requested

Requested Action:
☐ Authorized to Proceed While Pricing
☐ Price Only
☐ Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

/ / Dated

Authorized Action:
☐ Authorized to Proceed While Pricing
☐ Price Only
☐ Do Not Proceed or Price

Approved By: Owner: City of Charleston

/ / Dated

$57,076
Amount Approved
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<td>@ 0.45% performance and payment bond</td>
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<td>@ 0.072% builders risk</td>
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<th>Quantity</th>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>estimate total</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$52,501</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$52,500.50</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>conditions (gc)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>material &amp; equipment (gc)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>general requirements (gc)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>self-performed labor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>general requirements (gc)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>description of work</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>estimate of detail</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>131R1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

General Summary of the Estimate
International African American Museum

Turner
The cost breakdown difference for GMP Granite Versus 17.3 Bulletin

<table>
<thead>
<tr>
<th></th>
<th>GMP Amount</th>
<th>17.3 Amount New Amount</th>
<th>Cost</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount of Cost for Material for Granite</td>
<td>$92,500</td>
<td>$145,000</td>
<td>$52,500</td>
<td>The increase in price is based off the line item submission breakdown given by the granite supplier.</td>
</tr>
<tr>
<td>Labor to layout inscription walls</td>
<td>$130,926.74</td>
<td>$139,176.74</td>
<td>$8,250</td>
<td>This increase is caused due to the alignment of correct pieces and the additional time and resources that is going to make sure each granite piece is installed in the correct location</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>$60,750</td>
<td>With 15% markup that turns into $99,862.5</td>
</tr>
</tbody>
</table>

604 Saddlebrook Lane
Hopkins, South Carolina 29061
(803) 783-4123 office/fax
Visit us at our website: www.patconind.com
Line Item Submission

Don Conte <don@structuralstonellc.com>  
To: Will Patterson <wpatterson@patconind.com>  
Cc: Ray Cucino <ray@structuralstonellc.com>

Sat, May 22, 2021 at 12:22 PM

Will,

Our breakdown for the $52,500 in additional cost for the engraving on this project, is as follows:

- Drafting, $5,000
- Templates, $7,500
- Layout/handling, $10,000
- Regular blasting with lithochrome, $20,000
- Additional depth blasting, $10,000

We will put this on a formal Proposal Form on Monday morning and send to you.

Thank you

Regards,
Don Conte
Structural Stone LLC
401-667-4969 office
401-575-1933 cell

From: Will Patterson <wpatterson@patconind.com>
Sent: Tuesday, May 18, 2021 9:35 AM
To: Angela Conte <angela@structuralstonellc.com>; Don Conte <don@structuralstonellc.com>
Subject: Line Item Submission

Hey Don and Angela,
July 8, 2021

City of Charleston
Charleston, South Carolina

Masonry Granite Price Reduction for the International African American Museum

Before we get into the nuts and bolts of how to reduce this granite cost, I and PatCon Industries want to thank everyone for the opportunity and support that the design team, the general contractor, and the City of Charleston has shown us throughout this project. Even before we laid a brick on this building, Rev Jenkins at the Topping Out Ceremony, thanked the masons for—"working diligently and tirelessly to see this story come to light" and "pray(ed) you watch over them as this building comes to completion". This story is as much a part of us as it is of you, and as Rev. Jenkins says, we must see this story come to light.

Now, in regards to the labor for installing the granite pieces, the prices are pretty much set. However, due to the historical, architectural, and personal meaning behind this building, PatCon can shed $17,362 as a donation from PatCon Industries and the Patterson Family.

In regards to the material aspect of the granite, the Granite Supplier suggest the VE option of using a standard engraving instead of the custom deeper etching for the honed pieces. It may alter the overall appearances of the words slightly in the granite but that slight change is costing $10,000.

So, with our donation and the VE option on the granite that lowers the cost by $27,362 bringing my change request to $42,500 which was originally costing $69,862. Once again, thanks for supporting us and speaking this success into existence. We look forward to seeing this project to completion.

Will Patterson
Vice President of Operations
PatCon Industries, Inc
patconindustries@gmail.com
www.patconind.com

604 Saddlebrook Lane
Hopkins, South Carolina 29061
(803) 783-4123 office/fax
Visit us at our website: www.patconind.com
Description of work to be performed: FRP Finish Kitchen BOH

This change is associated with the material and labor for the installation of FRP pannelling at the back of house kitchen area. This section was added as a change to the GMP drawings with Bulletin 15. Even though there have been a few COR associated with Bulletin 15 none of them included the price for the FRP pannelling.

The pannelling is required by code and DHEC to make the walls washable.

Justification: A - Customer Requested Change

Attachments: J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $6,898.00
Owner Contingency Allow. Bal.

Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Approved:

Decision needed by: September 30, 2021

(Circle One)

Mike Risteski, Cumming Corp.

(Circle One)

Rick Holt, Cumming Corp.

(Circle One)

Robert Faust, Cumming Corp.

(Circle One)

Edmund V. Most, City of Charleston

Bernard Costantino, City of Charleston
COR #: 143R1

TURNER BROWNSTONE
14 Wharfside Street
Charleston, SC

Re: International African American Museum
Kitchen Finishes - FRP in the kitchen

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>This COR Changes the Finish in the Kitchen to FRP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reason:</td>
<td>X Owner Directive</td>
</tr>
<tr>
<td>Pricing:</td>
<td>X Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>X Evaluating Potential for Time Impact</td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
</tr>
<tr>
<td></td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
</tr>
</tbody>
</table>

Submitted By: Contractor: TURNER BROWNSTONE
07/19/2021
$ 6,898

Requested Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Authorized Action:
Authorized to Proceed While Pricing
Price Only
Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING

Approved By: Owner: City of Charleston

$ 6,898
Amount Approved
<table>
<thead>
<tr>
<th>Description</th>
<th>Percentage (%)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead and Profit</td>
<td>3.25%</td>
<td>$221,567</td>
</tr>
<tr>
<td>Preliminary</td>
<td>0.6%</td>
<td>$2,86</td>
</tr>
<tr>
<td>Performance and Payment Bond</td>
<td></td>
<td>$4,645</td>
</tr>
<tr>
<td>Builders Risk</td>
<td></td>
<td>$33,330</td>
</tr>
<tr>
<td>Subsidiary Costs</td>
<td></td>
<td>$71,14</td>
</tr>
<tr>
<td>Costs</td>
<td></td>
<td>$158,63</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>$6,345</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subtotal Trade Directs</strong></td>
<td>$6,345</td>
</tr>
<tr>
<td><strong>Trade Directs</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Material(s) &amp; Equipment</strong></td>
<td></td>
</tr>
<tr>
<td><strong>General Requirements (G.R.) &amp; General</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Self-Performed Labor</strong></td>
<td></td>
</tr>
</tbody>
</table>

**COR No.: 14367**

General Summary of the Estimate
International African American Museum

Turner
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Trade Directs</td>
<td>$6,245.00</td>
<td>1</td>
<td>$6,245.00</td>
</tr>
</tbody>
</table>

**Cor No:** 1.43R1

International African American Museum
REQUEST FOR CHANGE ORDER

Ref.#   COR-0063
GC #
Date   May 25, 2021
Job #   19-0998

To:      Turner Construction
         5300 Virginia Way
         Brentwood, TN 37027
         Phone: (615)231-6300
         Contact: Walt Lewis

Project: International African American Museum
         14 Wharfside Street
         Charleston, SC

Description: Install FRP BOH Cafe Rm 201B only.

<table>
<thead>
<tr>
<th>Labor</th>
<th>Total Hrs</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install FRP Panels-DW</td>
<td>44.00</td>
<td>67.50</td>
<td>$2,970.00</td>
</tr>
<tr>
<td>Clean up DW</td>
<td>3.00</td>
<td>67.50</td>
<td>$202.50</td>
</tr>
<tr>
<td>Supervision</td>
<td>4.00</td>
<td>67.50</td>
<td>$270.00</td>
</tr>
<tr>
<td>Total Labor</td>
<td>51.00</td>
<td>67.50</td>
<td>$3,442.50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th>Size</th>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRP ADHESIVE POLYMER</td>
<td>PAIL</td>
<td>5.00</td>
<td>EA</td>
<td>136.00 EA</td>
<td>$680.00</td>
</tr>
<tr>
<td>CLASS A FRP WALL PANEL- PEBBLED WHITE</td>
<td>9'</td>
<td>16.00 EA</td>
<td>EA</td>
<td>2.18 SQFT</td>
<td>$1,255.68</td>
</tr>
<tr>
<td>FRP END CAP WHITE</td>
<td>10'</td>
<td>13.00 EA</td>
<td>EA</td>
<td>.42 LF</td>
<td>$54.60</td>
</tr>
<tr>
<td>FRP DIVIDER STRIP WHITE</td>
<td>10'</td>
<td>16.00 EA</td>
<td>EA</td>
<td>.42 LF</td>
<td>$67.20</td>
</tr>
<tr>
<td>FRP INSIDE CORNER WHITE</td>
<td>10'</td>
<td>7.00 EA</td>
<td>EA</td>
<td>.42 LF</td>
<td>$29.40</td>
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<tr>
<td>Total Material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$2,086.88</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
<th>Total</th>
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<tbody>
<tr>
<td>DEWALT 15AMP 7-1/4&quot; CIRCULAR SAW W/BRAKE -CORDED</td>
<td>1.00 EA</td>
<td>119.00 EA</td>
<td>$119.00</td>
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<tr>
<td>Total Equipment</td>
<td></td>
<td></td>
<td></td>
<td>$119.00</td>
</tr>
</tbody>
</table>

Subtotal for Detail          | $5,648.38 |

<table>
<thead>
<tr>
<th>Miscellaneous</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parking</td>
<td>$120.00</td>
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<tr>
<td>Rounding</td>
<td>-$0.20</td>
</tr>
<tr>
<td>Total Miscellaneous Charges</td>
<td>$119.80</td>
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</table>

Labor Total: $3,442.50
Material Total: $2,086.88
Sub Trade Total: $0.00
Adjustments Total: $0.00
Equipment Total: $119.00
Misc. Total: $119.80
Sub Total: $5,768.18
Mark Up: $576.82 10.00%

Total: $6,345.00

Joel Ofsthun
Project Manager
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 163
Contract: Construction

Description of work to be performed: Stainless Steel Band Etching

This change is associated with the labor and materials associated with the etching of the stainless steel band. The material of the stainless steel band, final sizing and finish were included in the GMP scope.
This change order is only for the etching of the band to the design specifications and requirements.

A - Customer Requested Change
B - Code/Regulatory Agency Required Change
C - Errors and Omissions
D - Replacing Unsuitable Soils
E - Soils Related Change Other
F - Unforeseen Conditions
G - Time Related Change
H - Liquidated Damages
I - Value Engineering Change
J - Exercising Pre-Priced Option (Allowance)
K - Accounting Error

(Indicate Reason for Change Proposal)

Justification: A - Customer Requested Change

Attachments:
J&A from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $141,671.00
Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

(Circle One)

(YES)

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino, Moody Nolan

Present Underwriter

Approved:

Mike Risteski, Cumming Corp.
COR #: 163

TURNER BROWNSTONE
14 Wharfside Street
Charleston, SC

Re: International African American Muesum
Stainless Steel Band

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Stainless Steel Band Cost for inscription and bead blasting finish.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing:</td>
<td>ROM Estimate of GR's &amp; Insurances</td>
<td>ROM Estimate for Entire PCO</td>
<td>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</td>
<td>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</td>
</tr>
<tr>
<td>Time Impact:</td>
<td>Evaluating Potential for Time Impact</td>
<td>Evaluated - NO TIME IMPACT</td>
<td>Work Authorization is Requested By:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Work has been Completed</td>
<td>Work Has Commenced &amp;/or is Ongoing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted By: [Signature] | Contractor: TURNER BROWNSTONE 09/15/2021 $ 141,671 Amount Requested |
|-------------------|---------------------------------------------------------------------|

Reviewed By: [Signature] | Program Manager: CUMMING |
|-------------------|---------------------------|

Approved By: [Signature] | Owner: City of Charleston 09/15/2021 $ 141,671 Amount Approved |

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Labor</td>
<td>$51,992.00</td>
</tr>
<tr>
<td>General Requirements (Eq.)</td>
<td>$0</td>
</tr>
<tr>
<td>General Requirements (Gc.)</td>
<td>$0</td>
</tr>
<tr>
<td>General Requirements (Gc)</td>
<td>$0</td>
</tr>
<tr>
<td>Conditions (Eq)</td>
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</tr>
<tr>
<td>Conditions (Gc)</td>
<td>$0</td>
</tr>
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</table>

**Total** $130,683

**Cor No:** 163

General Summary of the Estimate
International African American Museum

Turner
<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Work Subtotal</td>
<td>$130.693</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Projected Total for this item</td>
<td>$130.693</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field I - Time to Install Equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$156.183.00 1 156.183.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMP Allowance for Stainless Steel Band Etching</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$24.500.00 1 24.500.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Scope of Work</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Detailed Estimate of Directs**

**International African American Museum**
# PROPOSED CHANGE ORDER

**LYNDON STEEL COMPANY LLC**  
1947 Union Cross Road  
Winston-Salem, NC 27107  
www.lyndonsteel.com  
(336) 785-0848 FAX 788-8835

**TO:** Turner Const  
4601 Park Road, Suite 601  
Charlotte, NC 28209  
Attention: Walt Lewis  
Phone: 919-788-2024  
FAX: -

**PROJECT:** International African American Museum  
Charleston, SC

**PROPOSED CHANGE ORDER #:** 52  
**REVISION #:** N/A  
**LSC CONTRACT #:** 19041  
**DATE:** 09/07/21

**DESCRIPTION**

<table>
<thead>
<tr>
<th>Description</th>
<th>NOC#</th>
<th>A/D</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added cost to ship approximately 224 LF of 1/4&quot; 316 bead blast finished stainless plate to be machine tooled / milled / edged, and shipped to job site. See attached Change Order from Stainless Fabricators, Inc. for breakdown and additional description of added cost.</td>
<td>59</td>
<td>ADD</td>
<td>$124,044</td>
</tr>
<tr>
<td>Stainless Fabricators, Inc.</td>
<td></td>
<td>ADD</td>
<td>$18,607</td>
</tr>
<tr>
<td>Overhead &amp; Profit</td>
<td></td>
<td>ADD</td>
<td>$1,552</td>
</tr>
<tr>
<td>Bonding</td>
<td></td>
<td>TAX</td>
<td>$10,980</td>
</tr>
</tbody>
</table>

This change will ADD an additional 28 WORK DAYS to our scheduled scope of work.

**Total This Change Order:** $155,183

Accepted - The above prices and specifications of this change order are satisfactory and are hereby accepted. All work is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

**LSC PM:** DeWitt Friedermann  
**e-mail:** DFriedermann@lyndonsteel.com  
**Prepared By:** Spencer Fleming

**Turner Const Signature:**  
**Date:**

**LSC Signature:**  
**Date:** 09/07/21

---

*Please sign and return to E-mail noted above or via Facsimile (336-788-8839) to Lyndon Steel Company. Upon receipt of written approval of this change order, LSC will proceed to fabricate and deliver the above items. If the above proposal is not accepted within thirty calendar days from the date of issuance, LSC reserves the right to revise the above quotation.*
**Stainless Fabricators, Inc.**  
11107 Challenger Ave.  
Odessa, Florida 33556  
www.stainlessfabricating.com  
Phone: 813-926.7113  
Fax: 813.926.7114

**By:** Keith Binney  
**Date:** 8/30/2021  
**T/O Sales Rep.:**  
**KB Sales:**  
**Phone:** 336-785-0848  
**Fax:** 336-427-8019  
**Contact:** DeWitt Friedermann

---

**Client Name**  
**To:** Lyndon Steel Company  
**Because of the current unstable SS market, this quote is good for 30 days, post issue**  
**Phone:** 336-785-0848  
**Fax:** 336-427-8019  
**Contact:** DeWitt Friedermann

---

**All prices will be “Price In Effect” at time of shipment**  
**Terms:** 25% Deposit with order  
Balance due upon completion

---

<table>
<thead>
<tr>
<th>Item: Description</th>
<th>Unit Cost</th>
<th>Units</th>
<th>Type</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: #17356 1/4&quot; 316 bead blast finish Stainless plate 1/4&quot; X 24&quot; X 244 FT Approx.</td>
<td>$152,000.00</td>
<td>1</td>
<td>Ea.</td>
<td>$152,000.00</td>
</tr>
<tr>
<td>B: Crate and Freight From NY To Odessa RI / From Odessa To Providence Plate will be ship from manufacture to SFI to be inspected Cut prep and Shipped to RI</td>
<td>$152,000.00</td>
<td>1</td>
<td>Ea.</td>
<td>$152,000.00</td>
</tr>
<tr>
<td>C: Plate to be Bead blasted / Setup / Machine Tooling / Milled / edged</td>
<td>$152,000.00</td>
<td>1</td>
<td>Ea.</td>
<td>$152,000.00</td>
</tr>
<tr>
<td>D: Freight To SFI / Inspection / Straighten / Crate for shipping to job site.</td>
<td>$152,000.00</td>
<td>1</td>
<td>Ea.</td>
<td>$152,000.00</td>
</tr>
<tr>
<td>E: Install / Hotel / Per diem / Travol</td>
<td>$152,000.00</td>
<td>1</td>
<td>Ea.</td>
<td>$152,000.00</td>
</tr>
</tbody>
</table>

**B: Original Contract cost**  
-$30,000.00 1 Ea. $ (30,000.00)

**SUB TOTAL**  
Please note: Tax not included.  
0%  
$ 122,000.00

**SUB-TOTAL with Sales Tax**  
2  
$ 122,000.00

---

**Engineering:**  
**A: Engineering, Calc’s P.E. Stamp**  
$ 250.00 1 Ea. $ 250.00

**B: Submittal / Fabrication Dwg.**  
$ 1

**C: Freight / Crate.**  
$ 1,793.56 1 Ea. $ 1,793.56

**D: Mobilization**  
Cost/Day Days

**E: Installation**  
Cost/Day Days

**F: Field measurement trip**  
Cost/Day Days

**G: Per Diem:**  
$ 2,043.56 15 Ea. $ 2,043.56

**SUB-TOTAL**  
$ 124,043.56

---

**Grand Total**  
This is not a lump sum price but for footage listed above.  
ONLY

**Note:** All emboss / substructure are not a part of this quote unless listed above with the line items.  
All material 316 # 6 bead blast.  
Standard Material escalation Applies

**SPECIAL NOTE:**
Typical lead time on construction is 8-12 weeks after field verification. Price quotation is good for 30 days after issue. Standard terms are 25% deposit, with order balance on completion of equipment for payment terms and conditions. This quotation is based on the available information at the time of its issue. If the design of the product or scope of work is supplied changes from the above listed quantity or description, the price will be adjusted accordingly. Materials quoted may not comply with I/BY AMERICAN clause.  
EXTENDED PRICE IS FOR FOOTAGE LISTED ONLY.

**GENERAL NOTES:**
Contract terms subject to review before acceptance.  
Erection pricing based on unobstructed access to work areas during delivery, unloading & erection. It is the GC’s responsibility for establishing elevations. Additional work required to lack of information or changes, like “BUY AMERICAN” clause or design modifications caused by construction changes after the submittal date, will be charged back to the project at $75.00 per man hour plus materials. In all cases, it is the responsibility of the purchaser to supply SFI with the proper information to price a particular project, and to supply SFI with all construction changes.

Approved For Production ___________________________  
Date ___________________________
Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 10/1/2021
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 165
Contract: Construction

Description of work to be performed: Changes in Data Requirements CPM (CO 6)
This change is associated with the materials and labor in the changes to the data requirements as presented in the CP Marine CO 6 resulting from the response to RFI 499 and RFI 557

Justification: A - Customer Requested Change

Attachments:
- J&A from Project Manager
- Independent Cost Estimate
- Pre-Negotiation Position (PWP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $3,163.00
Owner Contingency Allow. Bal.

Time Extension Requested: 
Time Extension Recommended: 

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: October 1, 2021

NO (YES)
Mike Risteski, Cumming Corp.
(Circle One)

Approved:

Rick Holt, Cumming Corp.

Robert Faust, Cumming Corp.

Edmund V. Most, City of Charleston

Bernard Costantino

Bernard Costantino, Moody Nolan
Date Submitted: September 22, 2021

To: Edmund Most  
City of Charleston

Re: International African American Museum  
RFI 579 - Data Cost for changes to the Docs.

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Cost for additional AV / Data Requirements.</th>
</tr>
</thead>
</table>

**Reason:**  
- [ ] Owner Directive  
- [ ] Code / Regulatory  
- [ ] Unforeseen Condition  
- [ ] Design Issue

**Pricing:**  
- [ ] ROM Estimate of GR's & Insurances  
- [ ] ROM Estimate for Entire PCO  
- [ ] Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates

**Time Impact:**  
- [ ] Evaluating Potential for Time Impact  
- [ ] Evaluated - NO TIME IMPACT  
- [ ] Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)  
- [ ] TBD  
- [ ] Work has been Completed  
- [ ] Work Has Commenced &/or is Ongoing

**Submitted By:**  
- [Signature]  
- [Name] Project Engineer  
- [Date] 09/22/2021

**Contractor:** TURNER BROWNSTONE  
- [Signature]  
- [Name]  
- [Date] 09/22/2021

**Amount Requested:**  
- $3,163

**Requested Action:**  
- [ ] Authorized to Proceed While Pricing  
- [ ] Price Only  
- [ ] Do Not Proceed or Price

**Authorized Action:**  
- [ ] Authorized to Proceed While Pricing  
- [ ] Price Only  
- [ ] Do Not Proceed or Price

**Reviewed By:**  
- [Signature]  
- [Name] Program Manager: CUMMING  
- [Date]  

**Approved By:**  
- [Signature]  
- [Name] Owner: City of Charleston  
- [Date]  

**Amount Approved:**  
- $3,163
<table>
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<tr>
<th>ESTIMATE TOTAL</th>
<th>$3,163</th>
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<tr>
<td>Overhead and Profit (Taken as % of Direct Work cost)</td>
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<tr>
<td>Procure</td>
<td>$1,311</td>
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<tr>
<td>Performance and Payment Bond</td>
<td>$2,136</td>
</tr>
<tr>
<td>Builders Risk</td>
<td>$2,431</td>
</tr>
<tr>
<td>Subgrade</td>
<td>$3,922</td>
</tr>
<tr>
<td>CIP</td>
<td>$7,295</td>
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SUBTOTAL | $2,918 |

<table>
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<tr>
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<tr>
<td>TRADE DIRECTS</td>
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<tr>
<td>$2,298.00</td>
</tr>
<tr>
<td>Conditions (GC5) &amp; General Requirements (GC5) &amp; General Conditions (GC5)</td>
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<tr>
<td>Materials &amp; Equipment</td>
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<tr>
<td>Conditions (GC5)</td>
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<td>Self-Performed Labor</td>
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General Summary of the Estimate
International African American Museum

Turner
<table>
<thead>
<tr>
<th>Description</th>
<th>Trade Directs</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**General Requirements (GR's) & General Conditions (GC's)**

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<th>Total</th>
<th>Units</th>
<th>Rate</th>
<th>Rate</th>
<th>COR No.: 165</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

International African American Museum
International African American Museum (IAAM)

TO: Turner Construction
FOR: Change Order 6 – RFI 499/557

A Small Disadvantaged Business, 8(a), Alaska Native Corporation (ANC), HUBZone and ISO 9001

Submitted By: Steven Sahlender
VP of Alaska Group
Goldbelt Inc./CP Marine LLC
603 Pilot House Drive Ste. 400
Newport News, VA 23606
Steven.sahlender@goldbelt.com
850-533-6352

Version: IAAM CO 6
Date: 2/23/2021
Project: CPMG – C03
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total Price</th>
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<tbody>
<tr>
<td>2</td>
<td>CHIEF PAC5226FBP4</td>
<td>In-Wall storage box, 4 receptacle filter, surge</td>
<td>$1,116.52</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>CPMG Engineering Change Order</td>
<td></td>
<td>$625.00</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>Hitachi 4/23 CAT6A U/FTP SUPRA 10GIG CMR</td>
<td></td>
<td>$506.36</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Knowlogix Cable Testing and Certification</td>
<td>Cable Certification Labor, Product Rental, and Calibration Fees</td>
<td>$260.00</td>
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<td>1</td>
<td>Knowlogix Engineering Change Order - 4 Hour Min</td>
<td></td>
<td>$500.00</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Ortronics Black Clarity CAT6A Shielded High Density Jack, T568A/B</td>
<td></td>
<td>$95.20</td>
<td></td>
</tr>
</tbody>
</table>

**Total Installation Price:** $3,103.08  
**Sales Tax:** $128.26  
**Grand Total:** $3,231.34

---

Client: Turner Construction  
Contractor: CP Marine LLC
Julie,

Yup this is what I need! I coordinated this layout with the metal panel contractor who can make it work. With the dimensions worked up between myself and Alex, it will be concealed behind the monitor.

Thank you,

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 601 | Charlotte, NC 28209
Mobile 980.406.0287 | aloidato@tcco.com

From: Cook, Julie [mailto:JCook@moodynolan.com]
Sent: Monday, February 22, 2021 8:43 AM
To: Alex Millender <alex.millender@jci.com>; LoDato, AJ - (CAR) <alodato@tcco.com>
Cc: Sarah Aarons <sarah.aarons@arup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>; Milani, Matteo <mmilani@pcf-p.com>
Subject: RE: RFI 449 & 579 - PAC Boxes at Display Niches

AJ –

Does below give you information you need? The install also needs to be coordinated with metal panel contractor. Brianne has managed that prior to leaving. Matteo sketched in the monitor in red in response to the RFI. Need to confirm this is behind the monitor and not visible to visitor.

Thanks-

JULIE COOK
AIA, LEED AP
PRINCIPAL
PROJECT ARCHITECT

MOODY•NOLAN
OFFICE: 614.461.4664  DIRECT: 614.280.1492  CELL: 614.937.9938
moodynolan.com

2021 AIA NATIONAL ARCHITECTURE FIRM AWARD

From: Alex Millender <alex.millender@jci.com>
Sent: Friday, February 19, 2021 6:36 PM
To: LoDato, AJ - (CAR) <alodato@tcco.com>; Cook, Julie <JCook@moodynolan.com>
Cc: Sarah Aarons <sarah.aarons@arup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: RE: RFI 449 & 579 - PAC Boxes at Display Niches
This is the monitor being used:

https://pro.sony/ue_US/products/pro-displays/fwd-75x800h

It is 66” wide. The edge of the monitor angles back towards the maximum depth as it moves in. If the outer edge of the PAC box is more than 3-4 inches in from outer edge of the monitor it shouldn’t be visible by visitors.

Regards,

Alex Millender, CTS-D, CTS-I
Project Development Engineer, AV
Connected Technologies & Solutions

Johnson Controls
Phone: (205) 644-4692
Email: alex.millender@ici.com
www.Johnsoncontrols.com
Twitter: @Johnson Controls • LinkedIn: Johnson-Controls

The power behind your mission

THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED AND CONFIDENTIAL. The information contained in, or attached to, this message is intended solely for the use of the specific person(s) named above. If you are not the intended recipient then you have received this communication in error and are prohibited from review, retransmission, taking any action in reliance upon, sharing the content of, disseminating or copying this message and any of the attachments in any way. If you have received this communication in error, please contact the sender immediately and promptly delete this message from all types of media and devices. Thank you.

From: LoDato, AJ - (CAR) <alodato@ttco.com>
Sent: Friday, February 19, 2021 3:38 PM
To: Alex Millender <alex.millender@ici.com>; Julie Cook <JCook@moodynolan.com>
Cc: Sarah Aarons <sarah.aarons@arup.com>; Lewis, Walter - (CAR) <wlewis@ttco.com>
Subject: RE: RFI 449 & 579 - PAC Boxes at Display Niches

Yes the fireproofing (foam area) is the center, the openings are also the same dimensions in both directions.

I measured a similar PAC box and it was 14.5”, we need about 4-6” on the top to bend our coupling under the TV mount and blocking. The TV mount is 5.5” high. Looking at a ballpark of 24” below center of TV for this buildup.

20/A-601 shows a better section cut, but there is no elevation. See the metal panel shop drawings below for a better idea of what’s going on.
<table>
<thead>
<tr>
<th>2</th>
<th>ATRIUM WALL PANELS DISPLAY CASE ELEVATION (2 THUS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>202</td>
<td>SCALE FACTOR N.T.S. REF N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3</th>
<th>ATRIUM WALL PANELS DISPLAY CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>202</td>
<td>SCALE FACTOR N.T.S. REF N/A</td>
</tr>
</tbody>
</table>

**AJ LoDato** | Engineer  
**Turner Construction Company** | 4601 Park Road, Suite 601 | Charlotte, NC 28209  
Mobile 980.406.0287 | alodato@tcco.com

**From:** Alex Millender [mailto:alex.millender@jci.com]  
**Sent:** Friday, February 19, 2021 4:11 PM  
**To:** LoDato, AJ - (CAR) <alodato@tcco.com>; Cook, Julie <jcook@moodynolan.com>  
**Cc:** Sarah Aarons <sarah.aarons@arup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>  
**Subject:** RE: RFI 449 & 579 - PAC Boxes at Display Niches

Julie,

I think AJ is correct, but I want to confirm officially.  
I’d need to look at an actual drawing to load in the mount, PAC526 box, and the Sony display being used to confirm the PAC box stays hidden.  
Do you or Sarah know off hand which drawing shows this elevation?

AJ, can you confirm that the foamed area (looks like foam at least) is the center of the niche? i.e. are the lengths of the two black arrows I inserted the same?

Regards,

Alex Millender, CTS-D, CTS-I  
Project Development Engineer, AV  
Connected Technologies & Solutions  
Johnson Controls
From: LoDato, AJ - (CAR) <alodato@tcco.com>
Sent: Friday, February 19, 2021 1:27 PM
To: Alex Millender <alex.millender@ici.com>; Julie Cook <jcook@moodynolan.com>
Cc: Sarah Aarons <sarah.aarons@arup.com>; Lewis, Walter - (CAR) <wlewis@tcco.com>
Subject: RFI 449 & 579 - PAC Boxes at Display Niches

Alex/Julie,

RFI 449 & 579 call for PAC boxes at the display niches. It also calls to confirm location with JCI and Arch. Please confirm proposed location. The current single gang will be swapped out for the PAC box.

Dimensionally, this should stay slightly concealed behind the TV as I pulled common 70” TV height dimensions.

NORTH:
SOUTH:
Thanks,

AJ LoDato | Engineer
Turner Construction Company | 4601 Park Road, Suite 601 | Charlotte, NC 28209
Mobile 980.406.0287 | alodato@toco.com
MEP - Low Voltage | Rack Clarifications

TO: Bernard Costantino (Moody Nolan)  
Julie Cook, AIA (Moody Nolan)
FROM: Daron Pardine (Turner Construction (ATL))
Charleston, South Carolina
DATE INITIATED: 10/28/2020
LOCATION:   
PROJECT STAGE:   
COST IMPACT:   
DRAWING NUMBER:   
LINKED DRAWINGS:   
RECEIVED FROM: Daron Pardine (Turner Construction (ATL))

COPIES TO:
Sarah Aarons (ARUP), Julie Cook, AIA (Moody Nolan), Bernard Costantino (Moody Nolan), Trae Dantzler (CP Marine), Alex Nash (Turner Construction (CAR)), Chris Nuss (CP Marine), Jonathan Roberts (Cumming), Stephanie Terault (ARUP)

Question from Daron Pardine (Turner Construction (ATL)) at 02:55 PM on 10/28/2020

This RFI has 2 parts:

1) We suggest enlarging the racks in E201 to be 36" deep as the servers for the Access Control and Camera system will be 29" in depth.

   It is best to maintain consistency of the racks in these rooms and we suggest making them all 36". This will broaden the parts availability for the rack-mounted UPS's as well as enable better cable management for the end users.

   Confirm or advise if we can use 36" racks.

2) The rack in E211 was reviewed and was determined to be to be large for the space. Advise on the size of rack required for this room and if PDU's are required.

Awaiting an Official Response

---

2) E211 rack was determined to be VMRK-54 (standard 31.4" depth version, not VMRK-54-36 version with 36" depth). No in-rack UPS needed.

UPDATE RESPONSE:
Design team can not respond to Q1 until we get a coordinated drawing showing all equipment. See attached email sent to TB with various issues previously noted on equipment in this room.

---

TCCo Atl/Car

Page 1 of 1

Printed On: 10/29/2020 01:35 PM
Moody Nolan
300 SPRUCE ST, STE 300,
COLUMBUS, OH 43215
Attention: Bernie Costantino

Subject: MEP - Low Voltage | Rack Clarifications

Information Requested:

This RFI has 2 parts:

1) We suggest enlarging the racks in E201 to be 36" deep as the servers for the Access Control and Camera system will be 29" in depth.

It is best to maintain consistency of the racks in these rooms and we suggest making them all 36". This will broaden the parts availability for the rack-mounted UPS's as well as enable better cable management for the end users.

Confirm or advise if we can use 36" racks.

2) The rack in E211 was reviewed and was determined to be to large for the space. Advise on the size of rack required for this room and if PDU's are required.

Responses

Nivin Joseph - ITC

1) Turner to provide a coordinated layout plan of E201, showing all clearances of these racks and AV racks from electrical panels and other equipment within this space.

2) Refer to JCI Response
Walt and all,

In addition, the racks in E201 need to be coordinated with all of the other equipment in the room. The security server was not submitted for design team review, and if it is installed in the rack as they are specified in the design documents (29”), it will protrude from the rack and cable management will not be ideal. The design documents clearly indicate the expected rack depth. The AV rack depth from design is also shown on the drawings, at 31.4”. The coordination of the equipment in the rack and the racks with other equipment in the room (IT/Elec/Sec/etc.) needs to be done via a coordinated shop drawing. This is a requirement of the Telecom and Electrical specifications.

The rack that was submitted and being returned today is a field adjustable rack. We accept the deeper rack configuration if it is determined that is required for the equipment being procured, but the room must be coordinated with the increased depth.

Thanks,

Sarah Aarons  PE  LEED AP BD+C

d: +1 202 729 8239
m: +1 202 779 3990
We have returned the ones we discussed. As noted on the call many of the RFI's were just submitted prior to call. I will be returning the LEVEL 2 & 3 coordination drawings – Revise and resubmit as they are not coordinated, let me know if you would like to set up a call to page turn the issues.

RFI 451 – returned
RFI 499 – See attached email and issue with UPS noted in Oct field report. (NOTE: dimensions provided are not acceptable Design Team needs a shop drawings that shows coordinated room and equipment as required by GMP) Please provide update on coordinated drawings.
RFI 500 – returned
RFI 505 – returned
RFI 510 – Will return today this is requesting a substitution which we will need more info on.
RFI 517 – Returned
RFI 518 – returned
RFI 520 – will return by end of week
RFI 521 – returned
RFI 522 – returned
RFI 523 – returned
RFI 524 – returned
RFI 528 – returned
RFI 533 – returned
RFI 535 - will return by end of week
RFI 536 – will return by end of week

Let me know what other items you are looking for.

Thanks-

JULIE M. COOK
AIA, LEED AP
PRINCIPAL
ARCHITECT

From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Thursday, November 19, 2020 9:10 AM
To: Stasiak, Brianne M - (CAR) <bstasiak@tcco.com>; bteachey@bstonegroup.com; Winovich, Dale <DWinovich@watsonelec.com>; Sloan, Kevin <KSloan@watsonelec.com>; Chris Nuss <cnuss@knowlogix.com>; Trae Dantzler <tdantzler@knowlogix.com>; Sahlender, Steven <steven.sahlender@goldbelt.com>; Cook, Julie <JCook@moodynolan.com>; Robert H. Faust <bfaust@ccpusa.com>; Sarah Aarons <sarah.aarons@arup.com>; alex.millender@jci.com
Cc: Lovelace, Ricky J - (CAR) <RLovelace@tcco.com>; Washington, George <George.Washington@watsonelec.com>; Costantino, Bernard <BCostantino@moodynolan.com>; Jonathan Roberts <jonathan.roberts@ccpusa.com>; Peter Massoud <Peter.Massoud@arup.com>; okechukwu.chika@jci.com; Anderson, Bri'Shae D - (CAR) <bdanderson@tcco.com>
Subject: RE: IAAM - Electrical and Low Voltage Discussion Meeting Minutes

Julie,

What is the status of the RFI that were supposed to be returned yesterday. I have not seen the ones we committed to getting back. There has been a couple of answers.

Please advise.
From: Stasiak, Brianne M - (CAR) <bstasiak@tcco.com>  
Sent: Wednesday, November 18, 2020 6:17 PM  
To: Lewis, Walter - (CAR) <wlewis@tcco.com>; bteachey@bstonegroup.com; Winovich, Dale <DWinovich@watsonenelec.com>; Sloan, Kevin <KSloan@watsonenelec.com>; Chris Nuss <cnuss@knowlogix.com>; Trae Dantzler <tdantzler@knowlogix.com>; Sahlinger, Steven <steven.sahlinger@goldbelt.com>; Cook, Julie <jcook@moodynolan.com>; Robert H. Faust <bfaust@ccorpusa.com>; Sarah Aarons <sarah.aarons@arup.com>; alex.millender@ici.com  
Cc: Lovelace, Ricky J - (CAR) <Rlovelace@tcco.com>; Washington, George <George.Washington@watsonenelec.com>; Costantino, Bernard <BCostantino@moodynolan.com>; Jonathan Roberts <jonathan.roberts@ccorpusa.com>; Peter Massoud <Peter.Massoud@arup.com>; okechukwu.chika@ici.com; Anderson, Bri'Shae D - (CAR) <bdanderson@tcco.com>  
Subject: RE: IAAM - Electrical and Low Voltage Discussion Meeting Minutes

Team,

As a follow up to our call yesterday, three things:

- New slim style balcony camera options attached (Axis F documents), there is a cost upcharge for this (CP Marine is determining)
  - This is now in ARUP/Moody Nolan court to provide direction.
- AV E201 actual dimensions of room attached. There is also a helpful attachment showing rack dimensions in a bit more detail.
  - This is now in ARUP/Moody Nolan court to provide direction based on code allowances for space.
- JCI sent an email about how the speaker manufacturer has changed its global distribution chain and there are no speakers available until late January 2021.
  - This is now a red hot item as it will impact ceiling installation. We are hanging ceilings in January and rough in needs to be done before this.

We were looking forward to a lot of promised answers today based on notes below. Please let me know if there are any issues or changes.

Brianne Stasiak | Engineer  
Turner Construction Company | mobile 980.556.6846 | bstasiak@tcco.com  
170 Meeting Street | Suite 312 | Charleston, SC 29401  
AILY | website | linkedin | facebook | twitter | youtube | pinterest

From: Stasiak, Brianne M - (CAR)  
Sent: Tuesday, November 17, 2020 8:34 PM  
To: Lewis, Walter - (CAR) <wlewis@tcco.com>; bteachey@bstonegroup.com; Winovich, Dale <DWinovich@watsonenelec.com>; Sloan, Kevin <KSloan@watsonenelec.com>; Chris Nuss <cnuss@knowlogix.com>; Trae Dantzler <tdantzler@knowlogix.com>; Sahlinger, Steven <steven.sahlinger@goldbelt.com>; Cook, Julie <jcook@moodynolan.com>; Robert H. Faust <bfaust@ccorpusa.com>; Sarah Aarons <sarah.aarons@arup.com>; alex.millender@ici.com  
Cc: Lovelace, Ricky J - (CAR) <Rlovelace@tcco.com>; Washington, George <George.Washington@watsonenelec.com>; Costantino, Bernard <BCostantino@moodynolan.com>; Jonathan Roberts <jonathan.roberts@ccorpusa.com>; Peter Massoud <Peter.Massoud@arup.com>; okechukwu.chika@ici.com; Anderson, Bri'Shae D - (CAR) <bdanderson@tcco.com>
Team,

Thanks for calling into our 4PM follow up. Quick notes as follows:

- **CP Marine Open RFI’s**
  - RFI 451- Can be closed. Watson coordination needed for stair/mesh (refer to RFI 223).
  - RFI 499- E211 answer acceptable, need rack approved. Room E201 needs further information. T/B will provide current dimensions of room in field with electrical panels and sizes of recommended equipment. Arup/Moody Nolan to advise needed clearances based on this information. Shift of AV racks from JCI to CP Marine generated in Bulletin 16.2. Rack product data needs to be reviewed concurrently.
  - RFI 500- Closed.
  - RFI 504- Need Dorma confirmation through 1st Choice that acceptable. Moody Nolan/Arup to review and confirm. Internal coordination needed between subs for install.
  - RFI 505- New projector screen product data to be provided for pricing by CP Marine (JCI also pricing). Lead time approx. 4 weeks. (post meeting note: product data sent)
  - RFI 510- Arup to follow up (including on security items located within the GFRC columns)

- **Other items**
  - Projectors- JCI to send cut sheets for coordination and rough in
  - Projector/Screen final locations to be coordination with ceiling coordination drawings (Moody Nolan/Arup to return and T/B will set up final coordination call to address notes with all subs)
  - G210 Speakers and Projectors- Moody Nolan suggested a coordination meeting to review this ceiling and honeycomb fabric to avoid any install issues.
  - G201 projector is located in corridor above ceiling
  - Closed RFI 502 answer reviewed- JCI will provide updated security layout. CP Marine to price scope shift from JCI to CP Marine for above ceiling rough in. JCI will call vendor to rush ship speakers of each type for ceiling layout.
  - It was confirmed that the smaller speakers in G206A and G207A are correct as the deleted walls that isolate these spaces are now installed by exhibit contractor. Plywood gets installed at ceilings in these locations for exhibit installation of walls.

Please let me know if I missed anything. I will schedule a follow up call as needed for any remaining open items as we receive additional information.

Thanks!

Brianne Stasiak | Engineer  
**Turner Construction Company** | mobile 980.556.6846 | bstasiak@tcco.com  
170 Meeting Street | Suite 312 | Charleston, SC  29401  
[website | linkedin | facebook | twitter | youtube | pinterest]
Team,

Thanks for calling in today. Quick updates:

- Watson Open RFI's
  - RFI 517- Design team may be picking new camera. CP Marine to send cut sheets today of current camera. Answer on height from design team tomorrow.
  - RFI 518- Closed. Follow RFI answer to increase thickness of wall.
  - RFI 520- Design team committed to returning tomorrow.
  - RFI 521- Closed. Switch can be moved.
  - RFI 522- TB to coordinate. Meeting tomorrow to confirm door release at 4PM, then internal Watson/CP Marine follow up for power and controls coordination at 4:30PM.
  - RFI 523- JCI/Design team to provide new solution by tomorrow. AV6 cannot accommodate more than 1-1/4” pipe, and provided box in original answer does not fit within thickness of wall.
  - RFI 524- Closed. Amount confirmed.
  - RFI 525- Closed. Location provided.
  - RFI 528- Design team to return today.
  - RFI 533- All 3 receptacles can be installed approx. center of North wall within each room (202A, 202B, and 203 all checked in field after call).
  - RFI 535- Design team needs to review before commitment date provided.
  - RFI 536- Design team will review and return, rough in not affected by this answer as location should not change, just potential for fixture change.

- CP Marine / Low Voltage Items
  - Follow up call at 4PM to discuss (I will try to get out some additional information before this call to steer the conversation)
    - RFI's
    - Racks (within 211, 201, size, scope)
    - Projectors
    - Screens
    - Speakers

I will sort through submitted versus still required shop drawings that design team is requesting and an update will be provided.

Talk at 4PM. Invite sent!

Brianne Stasiak | Engineer
Turner Construction Company | mobile 980.556.6846 | bstasiak@tcco.com
170 Meeting Street | Suite 312 | Charleston, SC 29401

Electronic mail messages entering and leaving Arup business systems are scanned for viruses and acceptability of content.
To: Edmund V. Most  
From: Mike Risteski  
Date: 10/1/2021  
Contractor: Turner Construction Company  

Project: CP 1425 International African American Museum  
Project No.: CP 1425  
Proposal No.: Change Order Request No. 166  
Contract: Construction  

Description of work to be performed: Intrusion Detection Changes as per JCI  
This change is associated with the materials and labor in the changes to the data requirements for the intrusion detection system as requested by JCI.  

Justification: A - Customer Requested Change  

Attachments: J&A from Project Manager  
Independent Cost Estimate  
Pre-Negotiation Position (PNP)  

Cost Estimate (Expected to Exceed $10,000):  
Change Proposal Request from CMR with Detailed Backup: X  

Proposal Cost (not to exceed): $10,363.00  
Owner Contingency Allow. Bal.:  
Time Extension Requested:  
Time Extension Recommended:  

Special Circumstances:  

Consequence of Rejection:  

Comments by Supervisor:  

Decision needed by: October 1, 2021  

(Circle One)  

Mike Risteski, Cuming Corp.  

(Circle One)  

Rick Holt, Cuming Corp.  

(Circle One)  

Robert Haust, Cuming Corp.  

(Circle One)  

Edmund V. Most, City of Charleston  

(Circle One)  

Bernard Costantino  

Bernard Costantino, Deputy Mayor  

Approved:
Date Submitted: September 22, 2021

To: Edmund Most  
    City of Charleston

Re: International African American Muesum  
    Intrusion Detection - Shift from JCI to CP Marine

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

| Work Description: | The cost to supply and install additional work for the IAAM. See attached back up. |

|---------|-----------------|------------------|----------------------|-------------|

<table>
<thead>
<tr>
<th>Pricing:</th>
<th>ROM Estimate of GR's &amp; Insurances</th>
<th>ROM Estimate for Entire PCO</th>
<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
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</table>

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<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>TBD Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
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<table>
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<tr>
<th>Work has been Completed</th>
<th>Work Has Commenced &amp;/or is Ongoing</th>
<th>Work Authorization is Requested By:</th>
</tr>
</thead>
</table>

Submitted By: Walter Lewis  
Project Engineer  
09/22/2021  
Amount Requested: $10,363

Contractor: TURNER BROWNSTONE

Requested Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Reviewed By: Program Manager: CUMMING  
Dated

Authorized Action:
- Authorized to Proceed While Pricing
- Price Only
- Do Not Proceed or Price

Approved By: Owner: City of Charleston  
Dated  
Amount Approved: $10,363
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**Subtotal**

**Subtotal Trade Directs**

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<td>General Requirements (GRR)</td>
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**Cor No.**

166

General Summary of the Estimate

International African American Museum
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<td>General Requirements (G.R.) &amp; General Conditions (G.C.)</td>
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</table>

**COR No.:** 166

International African American Museum
International African American Museum (IAAM)

TO: Turner Construction
FOR: Change Order 9 – Intrusion Detections
(Shift from JCI to CP Marine)

A Small Disadvantaged Business, 8(a), Alaska Native Corporation (ANC), HUBZone and ISO 9001

Submitted By: Steven Sahlender
VP of Alaska Group
Goldbelt Inc./CP Marine LLC
603 Pilot House Drive Ste.400
Newport News, VA 23606
Steven.sahlender@goldbelt.com
850-533-6352

Version: IAAM CO 9
Date: 3/17/2021
Project: CPMG – C03
Security System

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<th>Item Description</th>
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<td>Altonix Trove 1BL1R Blank/Customizable Access and Power Integration Rack Mount</td>
<td>$2,817.87</td>
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<td>With Backplane, Trove 1 Rack Series</td>
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<td>6</td>
<td>Bosch B208 8 Input module for SDI2 BUS</td>
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<td>1</td>
<td>Bosch B444 PLUG-IN CELLULAR MODULE, VERIZON LTE, HOT</td>
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<td>Bosch B9512G INTRUSION/FIRE/ACCESS CONTROL PANEL 599 POINTS 32 DOORS</td>
<td>$1,208.92</td>
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<td>10</td>
<td>Bosch DS939 70' DIAMETER CEILING MOUNT PIR</td>
<td>$1,422.60</td>
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<td>3</td>
<td>Bosch ISC-PB1-100 Conventional panic button for unobtrusively and manually triggering alarms</td>
<td>$206.28</td>
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<td>50</td>
<td>GRI 195-12WG-W Recessed 3/4&quot; Steel Door/DPDT/Wide Gap</td>
<td>$2,563.00</td>
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Total Installation Price: $9,083.31
Sales Tax: $477.21
Grand Total: $9,560.52

Client: Turner Construction

Contractor: CP Marine LLC

Date
Stephanie,

Thank you for forwarding the additional security design.

Julie, Leonard, Bob F.,

Attached is additional security design from the IAAM/JCI, please let us know if this will be incorporated into the contract documents and issued as a Bulletin or ASI for change management?

Trae and Steven,

Please provide a quote to me bteachey@bstonegroup.com and Walt Lewis wlewis@tcco.com to upgrade from your contracted materials, to the suggested additional security items provided by IAAM/JCI.

Best regards,

Bobby Teachey II, LEED GA | Project Manager
International African American Museum

Brownstone Construction Group
4055 Faber Place Drive, Suite 202 | North Charleston, SC 29405
Office: (843) 973-8660 | (C) (704) 239-9429
bteachey@bstonegroup.com | www.bstonegroup.com
Team

I have attached the BOM for the additional items requested by Bernice. I would recommend that you work with Julie @ Moody Nolan directly since you will be mounting the devices and running the cable.

Please feel free to give me a call if you have any questions.

Stephanie Starrett
Johnson Controls, Inc.
Connected Technologies
Business Development Leader
Stephanie.starrett@jci.com
210.563.1114
Bill of Material Cost for Parts & Smarts Device Install with CABLING (Additional Security)

Intrusion Detection

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<td>1-</td>
<td>BOSCH B9512-CC-930 CONTROL PANEL WITH CELLULAR BACKUP</td>
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<td>2-</td>
<td>Bosch B930 Keypads</td>
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<td>1-</td>
<td>Bosch BB103 Enclosure</td>
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<tr>
<td>1-</td>
<td>Bosch D1640 Transformer</td>
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<tr>
<td>2-</td>
<td>Bosch D166 Jacks</td>
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<td>1-</td>
<td>Bosch D101 Lock and Key</td>
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<td>119-Bosch D9127T</td>
<td>Popits</td>
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<td>67-Bosch ISN-SM-50</td>
<td>Seismic Sensor</td>
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CCTV

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<td>9-</td>
<td>AD IFS03D10CWIT Indoor Fixed IP Cameras</td>
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<td>AD IFDRECMNT Mounts</td>
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<td>4-</td>
<td>AD IFS02P6ONWITA Outdoor PTZ IP Cameras</td>
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<td>AD ROTRF Mounts</td>
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ACCESS CONTROL

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<td>HID R40 Card Reader</td>
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Change Order Proposal Review Form

To: Edmund V. Most
From: Mike Risteski
Date: 2/24/2022
Contractor: Turner Construction Company

Project: CP 1425 International African American Museum
Project No.: CP 1425
Proposal No.: Change Order Request No. 180.2
Contract: Construction

Description of work to be performed: IAAM Scope Adds
This change is associated with the materials and labor for the scope added by the IAAM.
This request incorporates the thickened slab under the building for the mounting of the moss frames.
The original footer that were in the GMP scope were abandoned, due to ongoing design of the moss frames.
Second change is for the temporary IT equipment necessary for the testing and commissioning of the systems.

Concrete Add for Moss Frames $ 18,727.00
Security Programing $ 7,016.00
Total $ 25,743.00

Justification: A - Customer Requested Change

Attachments: JSA from Project Manager
Independent Cost Estimate
Pre-Negotiation Position (PNP)

Cost Estimate (Expected to Exceed $10,000)
Change Proposal Request from CMR with Detailed Backup

Proposal Cost (not to exceed): $25,743.00 Owner Contingency Allow. Bal.
Time Extension Requested: Time Extension Recommended:

Special Circumstances:

Consequence of Rejection:

Comments by Supervisor:

Decision needed by: February 24, 2022

Approved:

(Rick Hoff, Cumming Corp.)

(Robert Faust, Cumming Corp.)

(Edmund V. Most, City of Charleston)

(Bernard Costantino, Moody Nolan)
Date Submitted: February 28, 2022

To: Edmund Most
City of Charleston

Re: International African American Museum
Misc Scope Adds - See Back Page

Please find attached our Proposed Change Order (PCO) for the above described Work. We are submitting for your review and approval of the changed condition(s) as outlined herein. All work shall be performed under our current contract terms and as outlined below:

<table>
<thead>
<tr>
<th>Work Description:</th>
<th>Provide additional Scopes of work (per Back Sheet) as Requested by the owner.</th>
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<th>ROM Estimate of GR's &amp; Insurances</th>
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<th>Lump Sum or Firm Fixed Unit Pricing for Trade Contractors - See Detailed Estimates</th>
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<tr>
<th>Time Impact:</th>
<th>Evaluating Potential for Time Impact</th>
<th>Evaluated - NO TIME IMPACT</th>
<th>Calendar Days Requested (See attached FRAGNET/Schedule Impact Analysis)</th>
</tr>
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</table>

Work has been Completed | Work Has Commenced &/or is Ongoing | Work Authorization is Requested By: |

Submitted By: Walter Lewis Project Engineer Dated _02/28/2022_

Contractor: TURNER BROWNSTONE

Requested Action: Authorized to Proceed While Pricing | Price Only | Do Not Proceed or Price |

$52,284

$25,743.00

Turner

Reviewed By: Program Manager: CUMMING

Authorized Action: Authorized to Proceed While Pricing | Price Only | Do Not Proceed or Price |

$52,284

$25,743.00

Owner: City of Charleston

Approved By: Edmund Most

Amount Approved $25,743.00
### Estimate Total

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General Summary of the Estimate
International African American Museum

Turner
### TRADE DIRECTS

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### GENERAL REQUIREMENTS (CR.4) & GENERAL CONDITIONS (GC.5)

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**COR NO:** 180

---

*Turner*

Detail Estimate of Directs
International African American Museum
Bob, Per our Conversation yesterday here is the break of your request.

Additional Scope Items
- Landscaping – 10,795.00
- Security Temp Programing 7,016.00
- Northside Fence 15,746.00
- Framing / Drywall / Painting Door Hardware 130,475.00
- Final Soil Removals & Trench Drain add 211,577.00
- Site Concrete & Moss Frame Foundation Changes 18,727.00

Work Not included – Pricing All most Complete for these items.
- Elevator Emergency Power Changes Approx 12K
- Wood at Walk Ways 120 – 180k
- Curb At Fire Lane Approx 15k
- Cat Walk Gate Approx 8k
- Lower Atrium Stair Railing Approx 10k
- South East Corner Approx15k
- Steam TBD

Thanks
Walt

---

Thanks Walt,

We will need a breakdown of those 1st six items. We will also need the breakdown of those 6 items that you indicate as not included in the proposed settlement number. We will review the letter with the City this week and have a response for you.
Thanks,

Bob

ROBERT H. FAUST, P.E.
Senior Project Manager
Cumming
Building Value Through Expertise

bfaust@cumming-group.com
P: +1 (843) 203-2906
C: +1 (843) 847-1750
3820 Faber Place Drive, Suite 600,
North Charleston, SC 29405
cumming-group.com

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From: Lewis, Walter - (CAR) <wlewis@tcco.com>
Sent: Friday, January 14, 2022 4:30 PM
To: Robert H. Faust <bfaust@cumming-group.com>
Subject: GMP Dollar Amount

EXTERNAL EMAIL: Use caution with any response, links, or attachments.

Bob,

See Attached letter concerning the GMP dollars as discussed earlier today.

Thanks
Walt

Walter Lewis | Project Manager
Turner Construction Company
Mobile: 704.936.6991
Email: wlewis@tcco.com
Edwin and Matthew,

To confirm, you’re ok with the temporary equipment being removed after testing, and leaving it ready to receive JCI’s final Equipment?

Trae,

To confirm, in the attached drawing, various WAP (AP-x) locations shown in the base building. Would these provide the same coverage you outlined below, or would additional WAP’s be required to provide ipad/devices better coverage?

This would be an added service for the IAAM after substantial completion.

Best regards,

Bobby Teachey II, LEED GA  |  Project Manager
Brownstone Construction Group
4055 Faber Place Drive, Suite 202  |  North Charleston, SC 29405
Office: (843) 973-8660  |  (C) (704) 239-9429
bteachey@bstoneteam.com  |  www.bstoneteam.com

---

From: Trae Dantzler <tdantzler@knowlogix.com>
Sent: Thursday, November 18, 2021 1:51 PM
To: Edwin L Magras <Edwin.L.Magras@jci.com>; Bobby Teachey <bteachey@bstoneteam.com>; Matthew Wagers <matthew.wagers@canteytech.com>; Alex Millender <alex.millender@jci.com>; John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Chris Nuss <cnuss@knowlogix.com>
Subject: Re: AV Network Testing

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.
Team,

Nothing we're installing will require the wireless to be in place during our testing. That said we can easily add wireless access points for general coverage if you would like for us to. While our package doesn't include anything like iPads or other types of mobile devices, these systems do have those capabilities.

If it's the intention of the security group to carry iPads then that definitely a conversation we can have. That said at this time, we would prefer any changes of that type to go directly through the customer and not Turner that's what you're attempting to close out work with Turner to complete that contract.

Thanks,

Trae Dantzler
System Architect | Lead Engineer | Project Manager
KNOWLOGIX
Managed Technology Solutions
843-900-4576 ex 101
tdantzler@knowlogix.com
www.knowlogix.com

From: Edwin L Magras <Edwin.L.Magras@ici.com>
Sent: Thursday, November 18, 2021 12:55:17 PM
To: Bobby Teachey <bteachey@bstonegroup.com>; Matthew Wagers <matthew.wagers@canteytech.com>; Alex Millender <alex.millender@ici.com>; John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Chris Nuss <cnuss@knowlogix.com>; Trae Dantzler <tdantzler@knowlogix.com>
Subject: RE: AV Network Testing

Equipment should be adequate for initial system testing.

Edwin Magras
Project Development Engineer II, Technology and Solutions Engineering
Building Solutions North America
Johnson Controls
+1 615 663-2410 cell
edwin.l.magras@ici.com

The power behind your mission

From: Bobby Teachey [mailto:bteachey@bstonegroup.com]
Sent: Thursday, November 18, 2021 11:43 AM
To: Matthew Wagers <matthew.wagers@canteytech.com>; Alex Millender <alex.millender@ici.com>; John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Edwin L Magras <Edwin.L.Magras@ici.com>; Chris Nuss
Alex and Matthew,

Turner/ CP Marine is providing this Temporary Equipment, can you confirm if this ok?

If not Turner/ CP Marine will have it ready to receive the IAAM final Equipment.

Best regards,

Bobby Teachey II, LEED GA | Project Manager
Brownstone Construction Group
4055 Faber Place Drive, Suite 202 | North Charleston, SC 29405
Office: (843) 973-8660 | (C) (704) 239-9429
bteachey@bstonegroup.com | www.bystonegroup.com

From: Trae Dantzler <tdantzler@knowlogix.com>
Sent: Thursday, October 14, 2021 9:04 AM
To: Matthew Wagers <matthew.wagers@canteytech.com>; Edwin L Magras <Edwin.L.Magras@ici.com>; Alex Millender <alex.millender@ici.com>; John Anderson <janderson@iaamuseum.org>
Cc: Mike Ristesi <mristesi@ecorpusa.com>; Bernice Chu <bchu@iaamuseum.org>; Bobby Teachey <bteachey@bstonegroup.com>; Chris Nuss <cnuss@knowlogix.com>
Subject: RE: AV Network Testing

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Matthew,

While we are not involved in the communications with ATT, to my knowledge, ATT is installing a circuit as soon as possible. We are preparing to meet their circuit at the d-mark with a 12 Strand Fiber as well as a 25 pair coper backbone which will extend the demark up into the building into Room G 201 (IDF).

Thanks,

Trae Dantzler
Systems Architect | Lead Engineer | Project Manager

Managed Technology Solutions
843-900-4576 ex 101
From: Matthew Wagers <matthew.wagers@canteytech.com>
Sent: Thursday, October 14, 2021 8:19 AM
To: Trae Dantzler <tdantzler@knowlogix.com>; Edwin L Magras <Edwin.L.Magras@ici.com>; Alex Millender <alex.millender@ici.com>; John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Bernice Chu <bchu@iaamuseum.org>; Bobby Teachey <bteachey@bstonegroup.com>; Chris Nuss <cnuss@knowlogix.com>
Subject: RE: AV Network Testing

Has a primary ATT circuit already been ordered? Perhaps I misunderstood when we were asked to find a primary and secondary internet circuit for the new building.

From: Trae Dantzler <tdantzler@knowlogix.com>
Sent: Tuesday, October 12, 2021 2:55 PM
To: Matthew Wagers <matthew.wagers@canteytech.com>; Edwin L Magras <Edwin.L.Magras@ici.com>; Alex Millender <alex.millender@ici.com>; John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Bernice Chu <bchu@iaamuseum.org>; Bobby Teachey <bteachey@bstonegroup.com>; Chris Nuss <cnuss@knowlogix.com>
Subject: RE: AV Network Testing

Hello Mathew,

There are two 4 inch conduits from the street into the building and several pull points up to the demark point on the mezzanine. We have been told that ATT will be bring their circuit to that point and our cabling team will extend the fiber and 25pair from that point up to the server room. We also will be providing fiber between each of the server racks. Let me know if you have further questions.

Thanks,
From: Matthew Wagers <matthew.wagers@canteytech.com>
Sent: Tuesday, October 5, 2021 9:47 AM
To: Edwin L Magras <Edwin.L.Magras@jci.com>; Alex Millender <alex.millender@jci.com>; John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Bernice Chu <bchu@iaamuseum.org>; Trae Dantzler <tdantzler@knowlogix.com>; Bobby Teachey <bteachey@bstonegroup.com>; Chris Nuss <cnuss@knowlogix.com>
Subject: RE: AV Network Testing

Hello everyone,

In discussing internet options the question has come up on whether the proper conduit has been planned for for the incoming internet service from the street to the building itself. Who would be best to answer this question?
I’ll send out an invite for tomorrow at 10:00 EST.

I am available tomorrow morning and all day Wednesday or Thursday.

I’m available tomorrow from 10am Central, through the end of the day. Wednesday from 8:30am through 1pm Central. All day Thursday.

I’ve added Edwin Magras to the email chain. He is JCI’s network engineer.
The power behind your mission

THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED AND CONFIDENTIAL. The information contained in, or attached to, this message is intended solely for the use of the specific person(s) named above. If you are not the intended recipient then you have received this communication in error and are prohibited from review, retransmission, taking any action in reliance upon, sharing the content of, disseminating or copying this message and any of the attachments in any way. If you have received this communication in error, please contact the sender immediately and promptly delete this message from all types of media and devices. Thank you.

From: Matthew Wagers <matthew.wagers@canteytech.com>
Sent: Monday, October 4, 2021 10:47 AM
To: John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Bernice Chu <bchu@iaamuseum.org>; Trae Dantzler <tdantzler@knowlogix.com>; Bobby Teachey <bteachey@bstonegroup.com>; Alex Millender <alex.millender@ici.com>; Chris Nuss <cnuss@knowlogix.com>
Subject: RE: AV Network Testing

Checking in on a call to discuss the new building. I’m really just needing to get a good understanding of what IAAM’s responsibilities are as far as the IT infrastructure, wiring, and future support is concerned.

From: Matthew Wagers
Sent: Thursday, September 30, 2021 10:59 AM
To: John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Bernice Chu <bchu@iaamuseum.org>; Trae Dantzler <tdantzler@knowlogix.com>; Bobby Teachey <bteachey@bstonegroup.com>; alex.millender@ici.com; Chris Nuss <cnuss@knowlogix.com>
Subject: RE: AV Network Testing

Thank you John,

Hello everyone,
I realize that I’m coming in late to this project but if we could schedule a quick call so I can get a good idea of what all is planned for this new space that would be awesome. We will be managing IAAM’s IT infrastructure so I need to get a good idea of what’s already planned and what needs to be planned for.

I’m open most of the day tomorrow and early next week is open as well,

From: John Anderson <janderson@iaamuseum.org>
Sent: Thursday, September 30, 2021 10:19 AM
To: Matthew Wagers <matthew.wagers@canteytech.com>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Bernice Chu <bchu@iaamuseum.org>; Trae Dantzler <tdantzler@knowlogix.com>; Bobby Teachey <bteachey@bstonegroup.com>; alex.millender@ici.com; Chris Nuss <cnuss@knowlogix.com>
Subject: RE: AV Network Testing

I am copying Matthew Wagers, our vCIO from Cantey Tech, on this communication as Cantey Tech will be continuing to manage IAAM’s network, and configuration will be based on Cantey Tech processes.

Thank you.

John

From: Trae Dantzler <tdantzler@knowlogix.com>
Sent: Thursday, September 30, 2021 9:02 AM
To: Bobby Teachey <bteachey@bstonegroup.com>; alex.millender@ici.com; Chris Nuss <cnuss@knowlogix.com>; John Anderson <janderson@iaamuseum.org>
Cc: Mike Risteski <mristeski@ccorpusa.com>; Bernice Chu <bchu@iaamuseum.org>
Subject: Re: AV Network Testing

Hey Bobby,

Alex hit the nail on the head in regards to us collaborating on the desired network layout and design. We need to know what the desired IP addresses are for the following:

- 73 cameras
- 1 camera server
- 4 nodes on the access control
- 7 nodes for intercom
- 1 node for security
- 3 administrative setup nodes with access to all networks above

As for the infrastructure to bring those online, we would need to either need to supply some temporary switches and router as discussed, or JCI would have to have switching infrastructure in place with Poe power and the networks or vlans configured. Obviously I’m all for only doing things once, but given the lead time for Alex's hardware we may have to do the temp setup.

Alex do you have any other questions for us?

Thanks,
From: Bobby Teachey <bteachey@bstonegroup.com>
Sent: Wednesday, September 29, 2021, 4:12 PM
To: alex.millender@ici.com; Chris Nuss; Trae Dantzler; John Anderson
Cc: Mike Risteski; Bernice Chu
Subject: AV Network Testing

Alex and Chris,

Thanks for jumping on the call earlier, and discussing the IT/AV systems with ARUP and the IAAM. There were discussions around the network testing for the base build installation, and the need for coordination between JCI and CP Marine.

What are the specific questions surrounding this issue?

Best regards,

Bobby Teachey II, LEED GA  |  Project Manager
Brownstone Construction Group
4055 Faber Place Drive, Suite 202  |  North Charleston, SC 29405
Office: (843) 973-8660  |  (C) (704) 239-9429
bteachey@bstonegroup.com  |  www.bstonegroup.com