City of Charleston

DESIGN REVIEW BOARD

September 8th, 2020
4:30 PM

DEPARTMENT OF PLANNING, PRESERVATION & SUSTAINABILITY
www.charleston-sc.gov/drb

MEETING PROTOCOL

- Staff will control the Powerpoint presentation that includes everything submitted by the applicant by the deadline, in accordance with the Submittal Requirements. Applicants simply need to ask staff to advance to the next slide during your presentation.

- Applicants, staff and Board members are required to give their name whenever speaking.

- Video and microphone has been disabled for all attendees. Attendees (not Board members or staff) will only be given the capabilities to speak when they are called on during the public comment period.

- Chat and the Q & A functions have been disabled for everyone.

- Public Comment:
  - The applicants (all team members) and the public have been required to register, indicate the project they wish to comment on, and submit any documents in advance of the meeting.

  - Just as in an in-person meeting, all applications heard today are part of a public meeting format. If you have registered and will speak during the public comment portion of the meeting you will need to state your name and address for the record.

  - Those members of the public that have registered will be called in order by project.

  - Members of the public that speak are encouraged to remain in the meeting for the completion of the item they have commented on.

  - Staff will call on the registered members of the public to speak for each project. Unregistered members of the public who raise their hand will not be called on.

- Board:
  - Board members should open the "Participants" panel so that each Board member can see the status of other Board members' microphones and cameras.

MEETING PROTOCOL (continued)

- Board members will be polled by the chair for comments and for their vote on a motion. Each member, when voting, should respond "Yea, in favor" or "Nea, not in favor". The Chairman shall re-read the motion verbatim and the Board member making the motion should correct the Chairman if he has not re-read the motion accurately.

- If a Board member needs to recuse, he will be temporarily removed from the meeting and placed back in the meeting at the start of the next agenda item.

- If the Board needs to go into Executive Session, they will call into a separate conference line and all video and audio on Zoom will be temporarily turned off until they are ready to return to the regular meeting.

- Staff will issue meeting results, including staff comments and Board Motion to the applicant following the meeting. Results will also be posted on the City website at www.charleston-sc.gov/drb .

- For additional information:
  - Contact DRB@charleston-sc.gov
  - Visit www.charleston-sc.gov/bar if you are experiencing technical difficulties during the meeting.

- These proceedings are being recorded.

Agenda Item #1

1861 BOHICKET RD.
TMS # 279-00-00-160

Request preliminary approval for a new addition to the existing Haut Gap School.

Haut Gap Middle School Addition
DRB Preliminary Submittal

Project Number: 19085.00

September 8, 2020

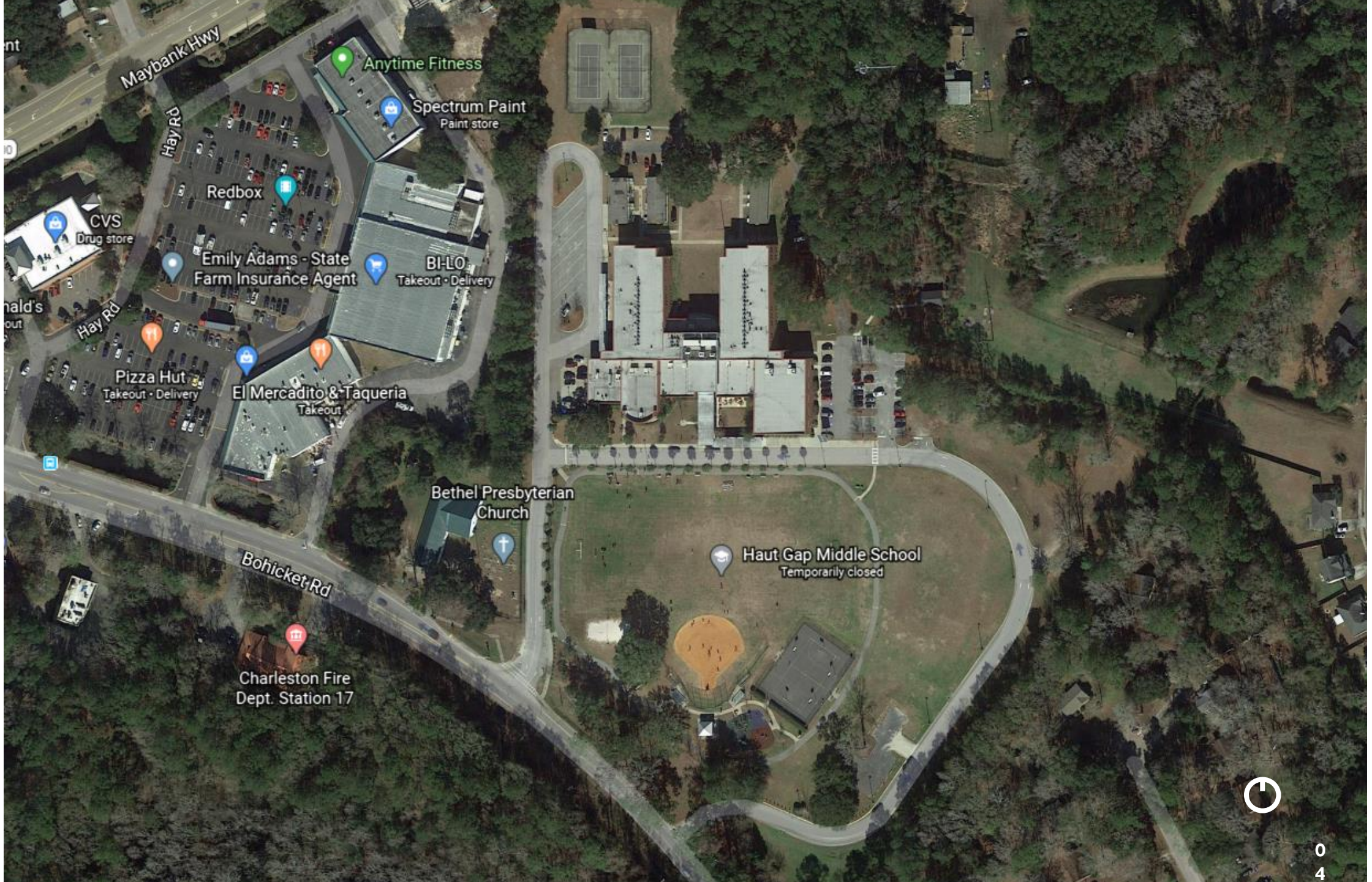
STEVENS & WILKINSON
ARCHITECTURE ENGINEERING INTERIORS

RED IRON

Existing Square Footage
49,450 SF
Addition Square Footage

Index

Overview of Existing Site

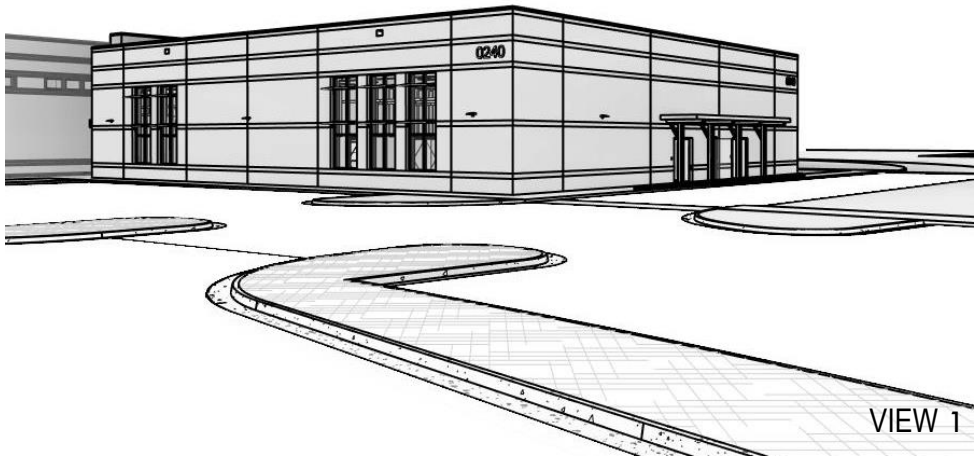

Maybank Hwy
Anytime Fitness
Spectrum Paint
Paint store
Hay Rd
Redbox
CVS
Drug store
Emily Adams - State
Farm Insurance Agent
BI-LO
Takeout · Delivery
Hay Rd
Pizza Hut
Takeout · Delivery
El Mercadito & Taqueria
Takeout
Bethel Presbyterian
Church
Haut Gap Middle School
Temporarily closed
Bohicket Rd
Charleston Fire
Dept. Station 17


Area of Proposed Addition

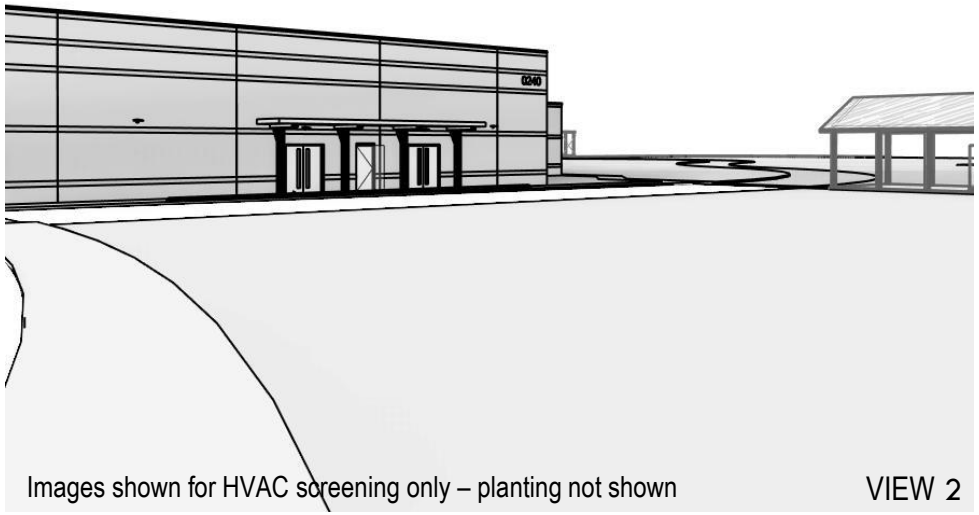
Responses to Conceptual Comments

DRB Comment #2:

DRB requires that roof mechanical systems that are visible from the ground or other parts of the building interior, be screened

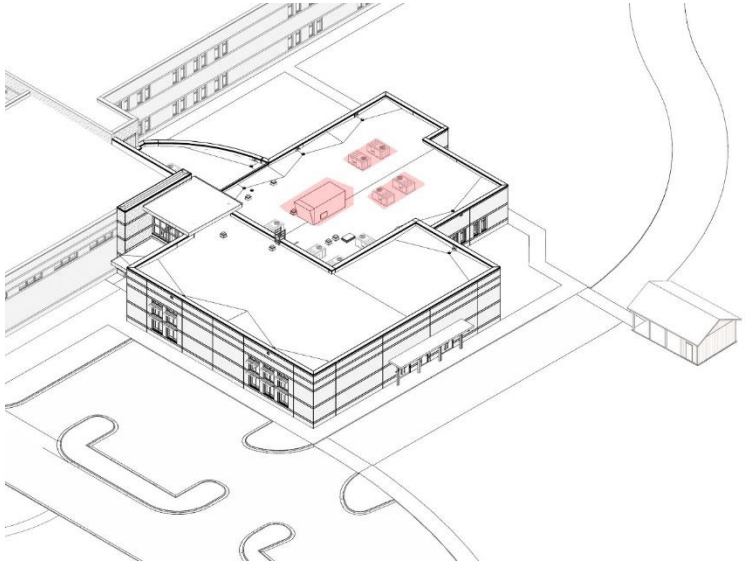


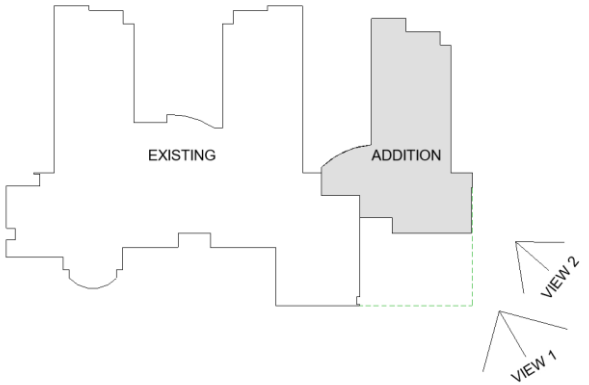
VIEW 1



Images shown for HVAC screening only – planting not shown

VIEW 2



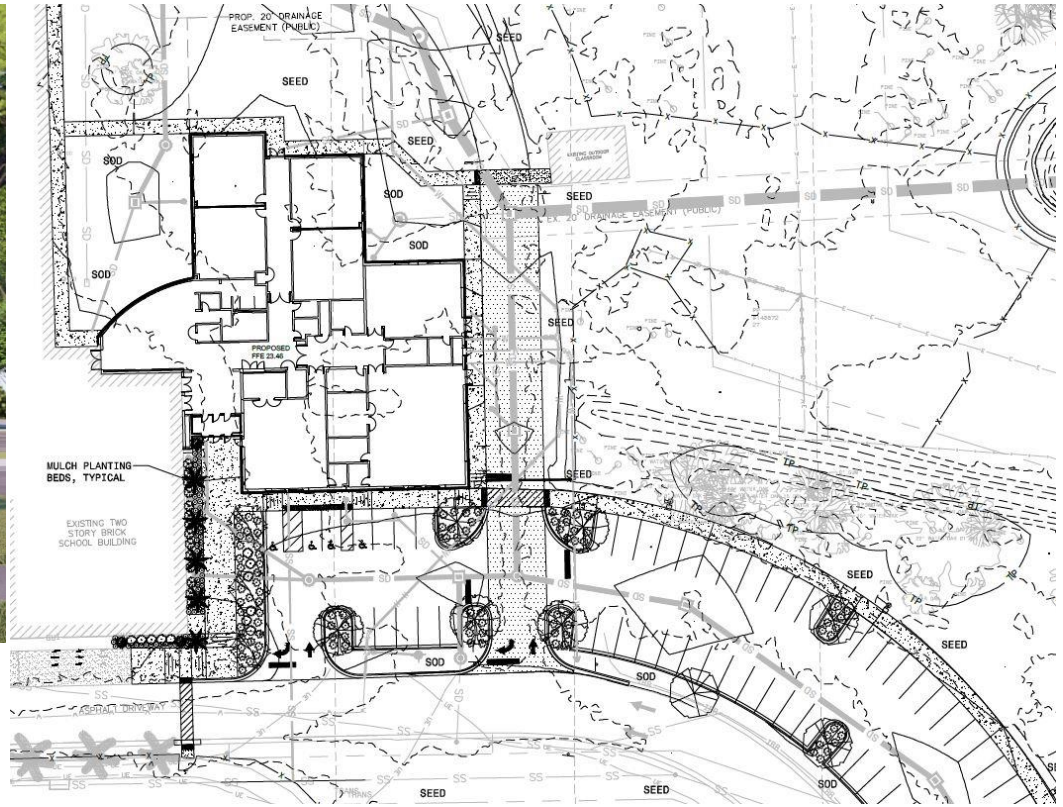


Response: All new mechanical equipment for the addition will be screened by the story and a half rooms that surround the front and side

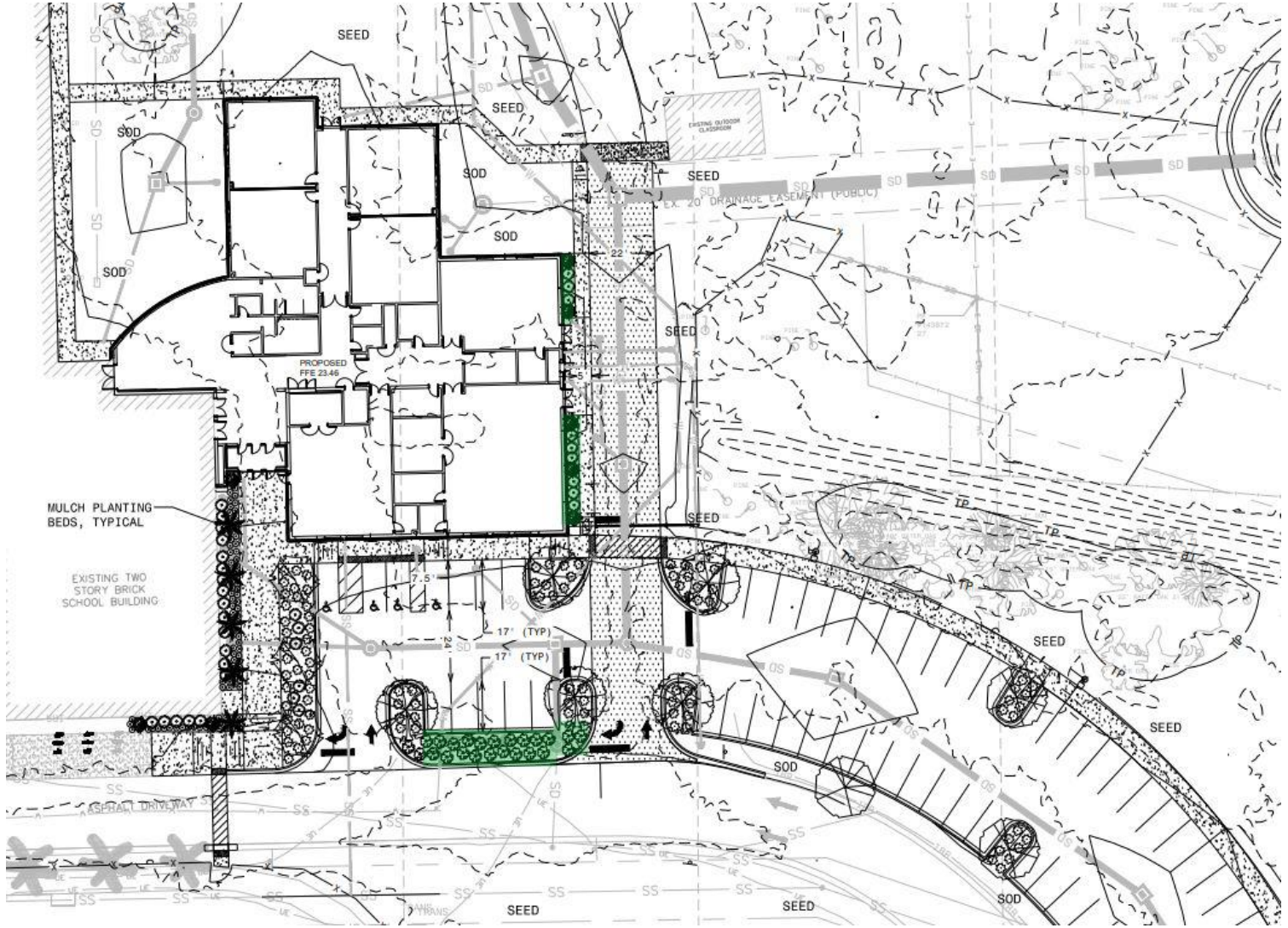
DRB Comment #3: If possible, staff would like to see an added planting strip along the south foundation between the building and the proposed sidewalk, to soften the edge of the building. Board comments to choose a substitute for two of the plants: Pittosporum and the Loropetalum.

Previous Rendering

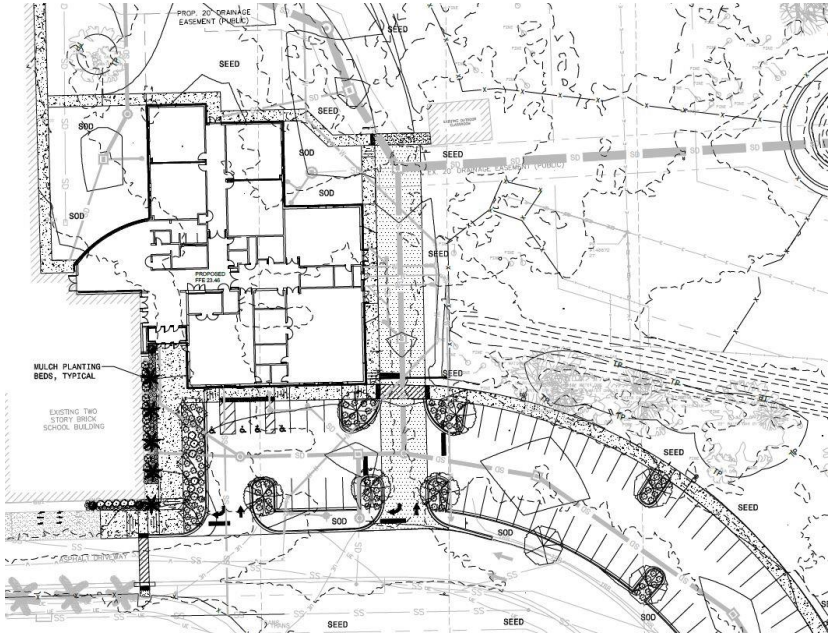
Previous Site Plan



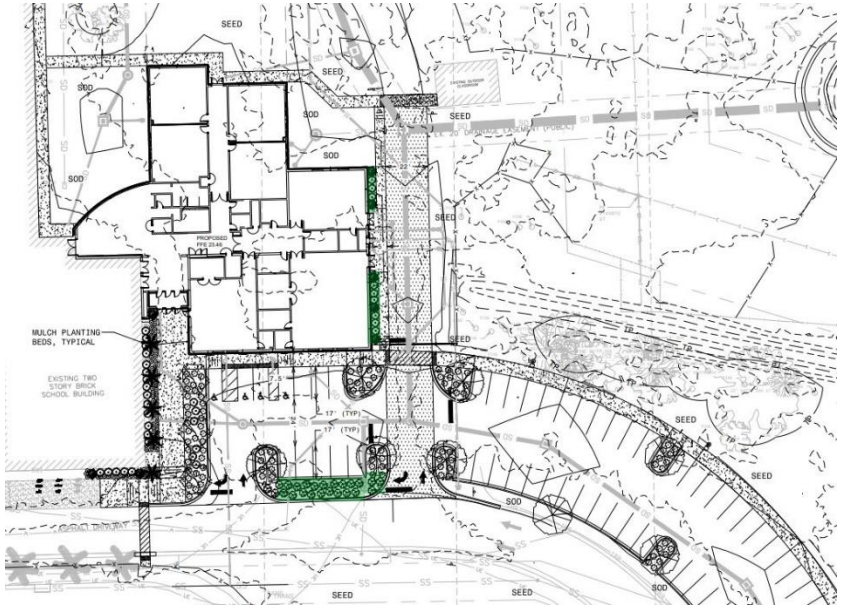
Response: The design team was unable to create planting directly next to the front part of the building without losing required parking spaces. Planting was added to the parking strip in front which will create a softening of the building on approach. The fire lane was adjusted and a planting strip was added to the side of the addition. Sherwood Abelia replaces Pittosporum and Curly Leaf Ligustrum replaces Loropetalum.



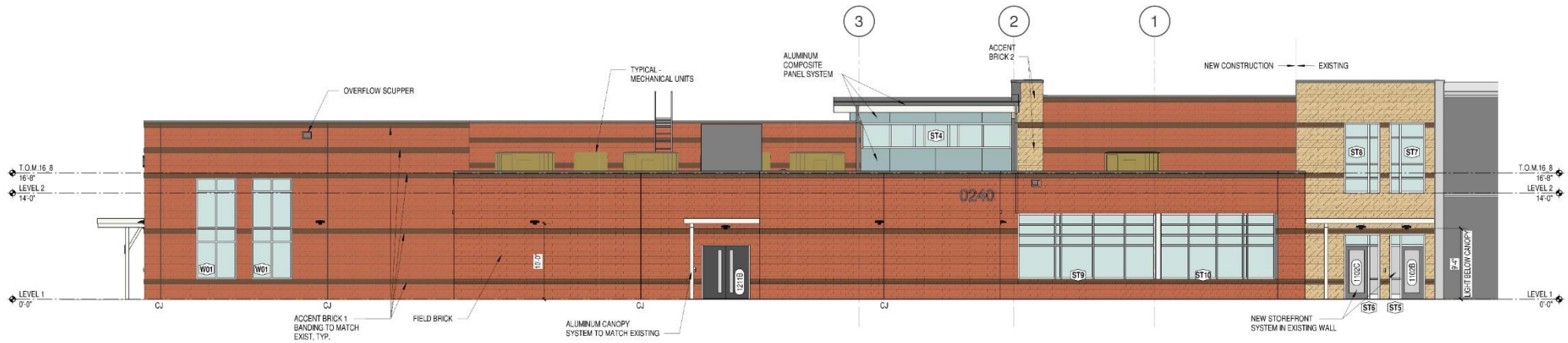
Previous Rendering and Landscape Plan



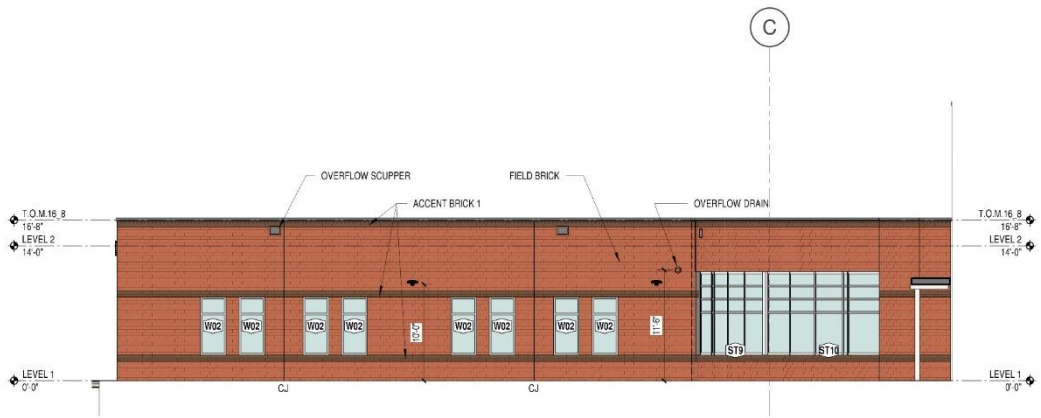
New Rendering and Landscape Plan



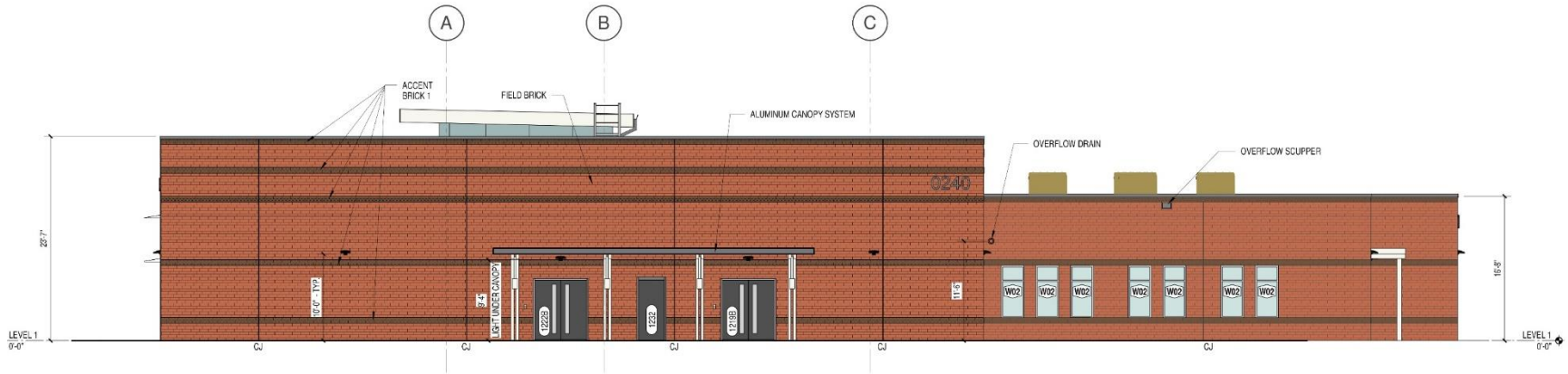
Proposed Exterior Overview



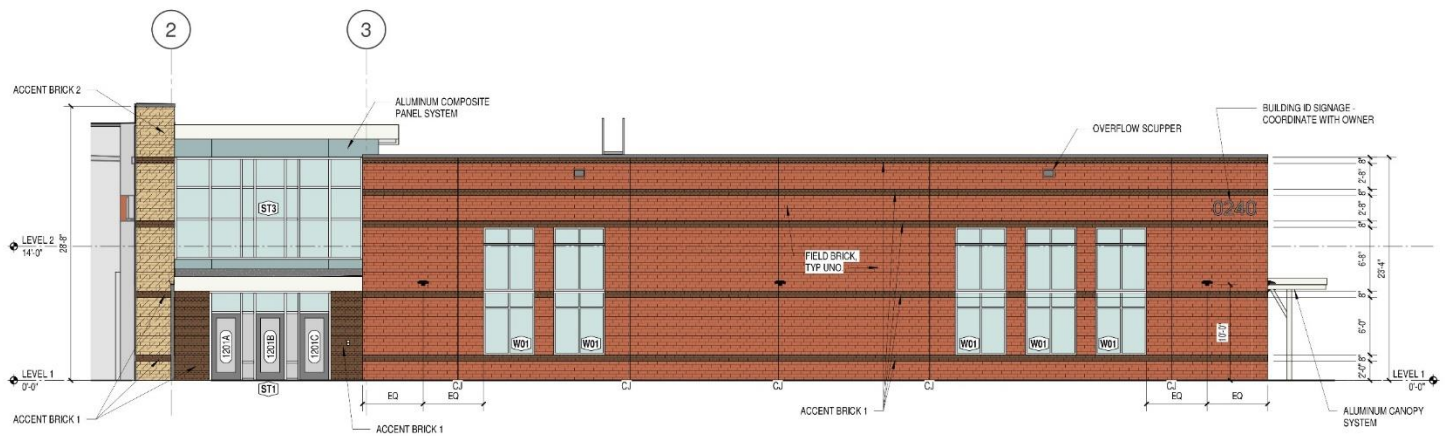
1 NORTH BUILDING ELEVATION



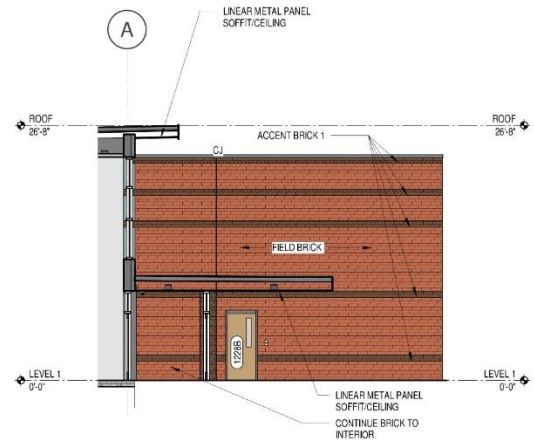
2 WEST BUILDING ELEVATION



3 EAST BUILDING ELEVATION



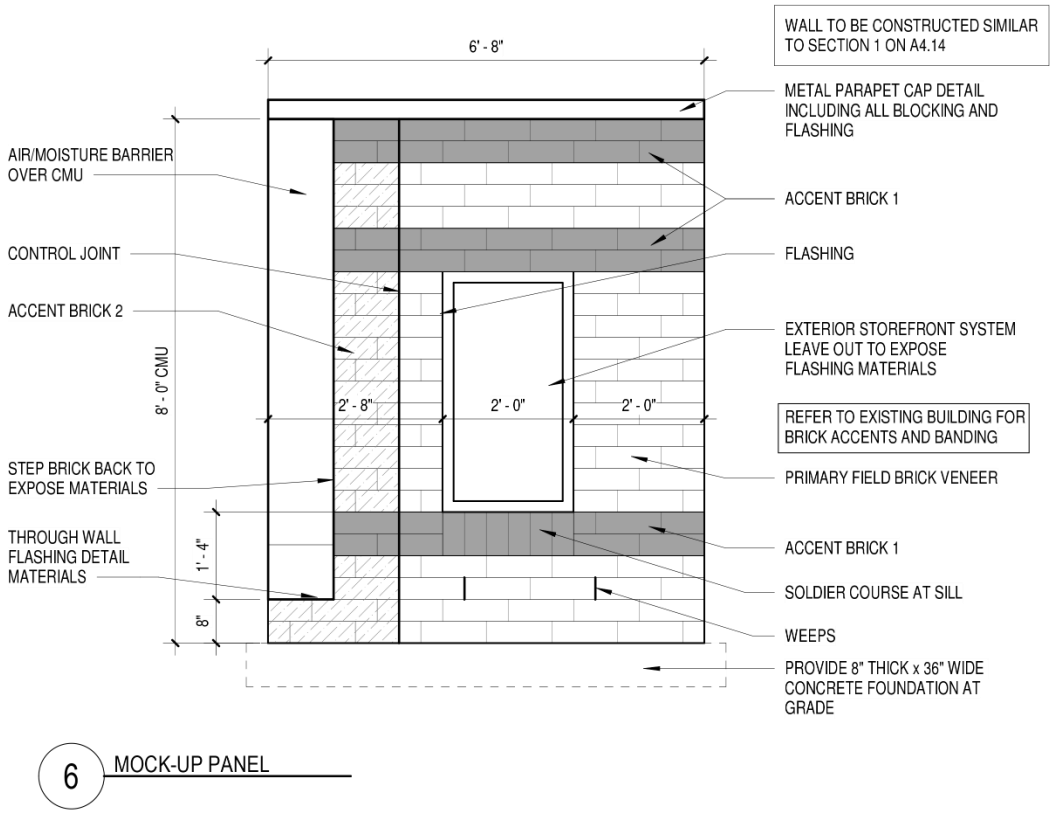
4 SOUTH BUILDING ELEVATION



5 WEST BUILDING ELEVATION

Existing brick color to be matched:

Exterior Finishes – Brick – Colors to Match Existing



6 MOCK-UP PANEL

Overall Brick Match – Palmetto Red Wire-Cut Utility

Accent 1 Brick Match – Meridian #763 Dark Grey Wire-Cut Utility

Accent 2 Brick Match – Palmetto Buffstone

All grout colors to match existing

Exterior Finishes – Windows - Color to Match Existing

Vitro Architectural Glass

Product Data Sheet

SOLARBAN®70
Solar Control Low-E Glass

Aesthetic Description

Solarban® 70 glass (formerly *Solarban®* 70XL glass) is a solar control, low-e glass that brilliantly combines the clear appearance of transparent, color-neutral glass with an exceptional combination of solar control and visible light transmittance (VLT).

The world's first triple-silver, magnetron sputter vacuum deposition (MSVD) coating, *Solarban®* 70 glass expands the design possibilities for buildings in two important ways. First, *Solarban®* 70 glass enables architects to incorporate vast areas of vision glass into their designs without a corresponding increase in cooling equipment capacity.

Second, architects can specify a clear aesthetic while achieving solar control performance that was once attainable only through the use of tinted glass and a solar control, low-e coating in an insulated glass unit (IGU).

Performance Options

When coupled with conventional clear glass in a one-inch IGU, *Solarban®* 70 glass achieves a Visible Light Transmittance (VLT of 64 percent and a Solar Heat Gain Coefficient (SHGC) of 0.27 to produce a Light to Solar Gain (LSG) ratio of 2.37, making it one of the industry's highest-performing glasses.

The clear aesthetic of *Solarban®* 70 glass also makes the product exceptionally versatile, offering architects an extensive array of performance and appearance options. For instance, for projects that require advanced solar control performance, *Solarban®* 70 glass can be coated on the second (#2) surface of nearly all of

The Cirque
Location: Dallas, TX | Product: *Solarban®* 70XL Glass | Architect of Record: PageSoutherlandPage | Design Architect: Gromatzky Dupree & Associates | Glass Fabricator: Trulite Glass and Aluminum Solutions | Glazing Contractor: Haley-Greer

Vitro Architectural Glass' (formerly PPG glass) wide range of tinted glasses to produce SHGCs as low as 0.19 and LSG ratios ranging from 1.68 to 2.15.

For more color and reflectivity choices, *Solarban®* 70 glass may be specified on the third (#3) surface of an IGU behind a tinted lite or in combination with *Solarcool®* reflective or *Vistacool®* subtly reflective color-enhanced glasses.

Supporting Sustainable Design

Vitro Architectural Glass provides abundant opportunities for architects and building owners to realize their sustainability objectives.

Energy Use & Operating Cost Reduction: High-performance glasses by Vitro are engineered to facilitate downsized mechanical equipment costs, leading to reduced long-term energy costs. Visit tools.vitroglazings.com for glass comparison and configuration tools for analyzing glass products.

Sustainability Documentation: Vitro Architectural Glass is the first U.S. float glass manufacturer to have its entire selection of products recognized by the *Cradle to Cradle Certified™* program, and the first in North America to publish third-party verified EPDs for its Flat Glass and Processed Glass products.

For additional credit opportunities and supporting documentation, visit vitroglazings.com/LEED

LEED Credit Opportunities

Possible Points	LEED Credit	*Solarban®* 70 Feature	Path/Option Satisfied
18	**Energy & Atmosphere (EA)** Optimize Energy Performance	Excellent SHGC, U-value and Tvis performance	Whole Building Energy Simulation (Option 1) or Prescriptive Compliance: ASHRAE Advanced Energy Design Guide (Option 2)
5	**Innovation (IN)** Innovation in Design	Exceeds minimum performance mandated by local energy codes	Innovation (Option 1), Pilot (Option 2) and Exemplary Performance (Option 3)
3	**Indoor Environmental Equality (EQ)** Daylight	Exhibits high light transmission	Simulation: Spatial Daylight Autonomy and Annual Sunlight Exposure (Option 1), Simulation: Illuminance Calculations (Option 2) or Measurement (Option 3)

Vitro Architectural Glass — Product Data Sheet

Solarban® 70 glass

Insulating Glass Unit Performance Comparisons | 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites

Glass Type: Outdoor Lite: Coating if Any (Surface) Glass + Indoor Lite: Coating if Any (Surface) Glass	Visible Light Transmittance (VLT)	Visible Light Reflectance Exterior %	Visible Light Reflectance Interior %	(BTU/hr·ft²·°F) NFRC U-Value Winter Nighttime	(BTU/hr·ft²·°F) NFRC U-Value Winter Argon	Solar Heat Gain Coefficient (SHGC)	Light to Solar Gain (LSG)
***Solarban®* 70 Solar Control Low-E Glass**							
Solarban® 70 (2) + Clear	64	12	13	0.28	0.24	0.27	2.37
Solarban® 70 (2) *Solexia®* + Clear	58	10	13	0.28	0.24	0.27	2.15
Solarban® 70 (2) *Atlantica®* + Clear	51	9	12	0.28	0.24	0.24	2.13
Solarban® 70 (2) *Azuria®* + Clear	52	9	12	0.28	0.24	0.25	2.08
Solarban® 70 (2) *Solarblue®* + Clear	42	8	12	0.28	0.24	0.23	1.83
Solarban® 70 (2) *Pacifica®* + Clear	32	6	12	0.28	0.24	0.19	1.68
Solarban® 70 (2) *Solarbronze®* + Clear	40	7	12	0.28	0.24	0.21	1.90
Solarban® 70 (2) *Optigray®* + Clear	47	8	12	0.28	0.24	0.24	1.96
Solarban® 70 (2) *Solargray®* + Clear	34	6	12	0.28	0.24	0.20	1.70
Solexia® + *Solarban®* 70 (3) Clear	56	11	12	0.28	0.24	0.32	1.75
Atlantica® + *Solarban®* 70 (3) Clear	49	10	11	0.28	0.24	0.28	1.75
Azuria® + *Solarban®* 70 (3) Clear	49	9	11	0.28	0.24	0.29	1.69
Solarblue® + *Solarban®* 70 (3) Clear	40	8	11	0.28	0.24	0.27	1.48
Pacifica® + *Solarban®* 70 (3) Clear	31	6	10	0.28	0.24	0.22	1.41
Solarbronze® + *Solarban®* 70 (3) Clear	38	8	11	0.28	0.24	0.26	1.46
Optigray® + *Solarban®* 70 (3) Clear	45	9	11	0.28	0.24	0.29	1.55
Solargray® + *Solarban®* 70 (3) Clear	32	7	11	0.28	0.24	0.24	1.33
Graylite® II + *Solarban®* 70 (3) Clear	6	4	10	0.28	0.24	0.11	0.55
Vistacool®* and *Solarcool®* with *Solarban®* 70 Solar Control Low-E (3)							
Vistacool® (2) *Azuria®* + *Solarban®* 70 (3)	38	21	23	0.28	0.24	0.24	1.58
Vistacool® (2) *Pacifica®* + *Solarban®* 70 (3)	24	11	22	0.28	0.24	0.19	1.26
Solarcool® (2) *Solexia®* + *Solarban®* 70 (3)	22	24	27	0.28	0.24	0.17	1.29
Solarcool® (2) *Azuria®* + *Solarban®* 70 (3)	19	19	27	0.28	0.24	0.15	1.27
Solarcool®(2) *Solarblue®* + *Solarban®* 70 (3)	16	14	27	0.28	0.24	0.15	1.07
Solarcool®(2) *Pacifica®* + *Solarban®* 70 (3)	12	10	27	0.28	0.24	0.13	0.92
Solarcool®(2) *Solarbronze®* + *Solarban®* 70 (3)	15	14	27	0.28	0.24	0.15	1.00
Solarcool®(2) *Solargray®* + *Solarban®* 70 (3)	13	11	27	0.28	0.24	0.14	0.93

*Solarban® 70 glass for annealed applications is applied to Starphire® glass, heat treated applications will require either clear or Starphire® glass depending on manufacturing process.
All performance data calculated using LBNL Window 7.3 software and represents center of glass performance data. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit vitroglazings.com or request our Architectural Glass Catalog.

Fabrication and Availability

Solarban® 70 glass is available exclusively through the *Vitro Certified™* Network. *Vitro Certified™* Fabricators can meet tight construction deadlines and accelerate the delivery of replacement glass before, during and after construction. *Solarban®* 70 glass is manufactured using the sputter-coating process and is available for annealed, heat-strengthened and tempered applications.

Additional Resources

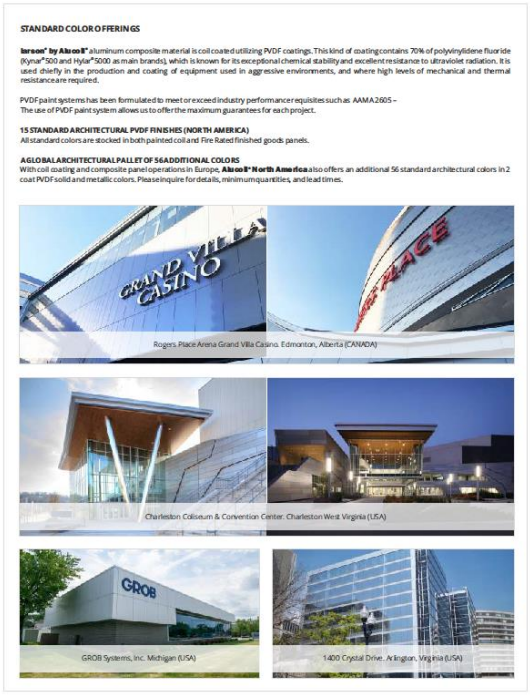
To obtain samples of any Vitro Glass product, call **1-855-VTRO-GLS (877-6457)** or visit **samples.vitroglazings.com**. For videos, design insights and technical education, visit the Vitro Glass Education Center at **glassed.vitroglazings.com**. For glass comparison and configuration tools, visit **tools.vitroglazings.com**.

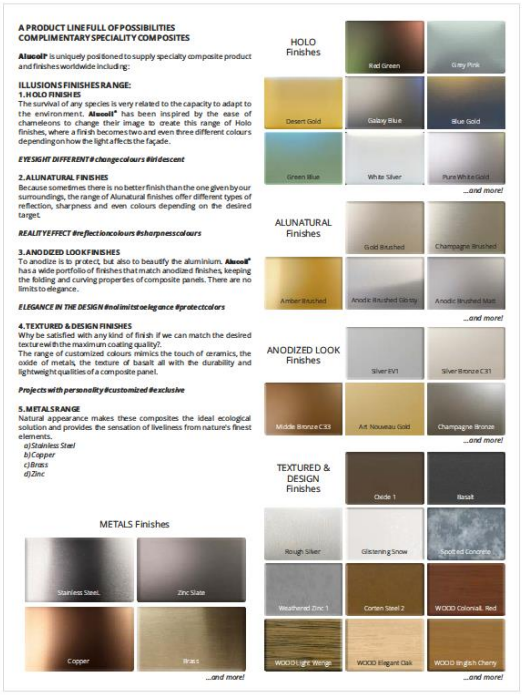
For more information about *Solarban®* low-e glass and other *Cradle to Cradle Certified™* architectural glasses by Vitro Glass, visit **vitroglazings.com**, or call **1-855-VTRO-GLS (887-6457)**.

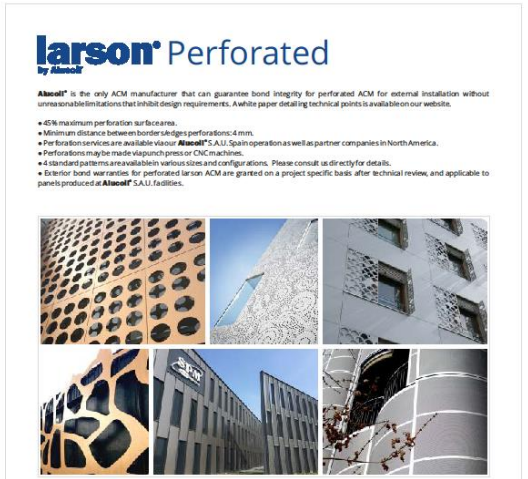
Vitro Architectural Glass

Exterior Finishes – ACM Panels

Color to Match Existing







Exterior Finishes – Storefront

Color to Match Existing

Series 401
2" x 4 1/2" Storefront Framing

CONFIGURATIONS
Shear Block • Screw Spline

Series 401 is an economical flush glaze system available in both shear block and screw spline fabrication methods. Series 401 Storefront can accommodate all standard 1 3/4" and 2" entrances as well as WV410 vents. Vertical mullions will accept steel reinforcement to enhance structural performance.

Features	Benefits
Two fabrication/erection options (screw spline, shear block)	Method of installation fits job conditions
Open back and shear block door frames with transom bars and rubber weather stripping	Provides field/shop flexibility for erector
	Compatible with all 1 3/4" and 2" EFCO doors
The same glazing gasket used for exterior and interior	Simplifies ordering and installation
	Allows optimized use of gasket
Accommodates from 3/16" to 3/8"glazing	Handles the most popular glass thicknesses
2-way corner mullions (90° & 135°)	Design flexibility
3-way corner mullions (T-mullions)	Multifaceted elevations
Various height intermediate horizontals and sills	Ability to maintain desired sight line
Accessory line of perimeter anchors, pocket fillers, door adaptors, etc.	Increased product versatility
Anodized and painted finishes available	Multiple options to answer economic and aesthetic concerns

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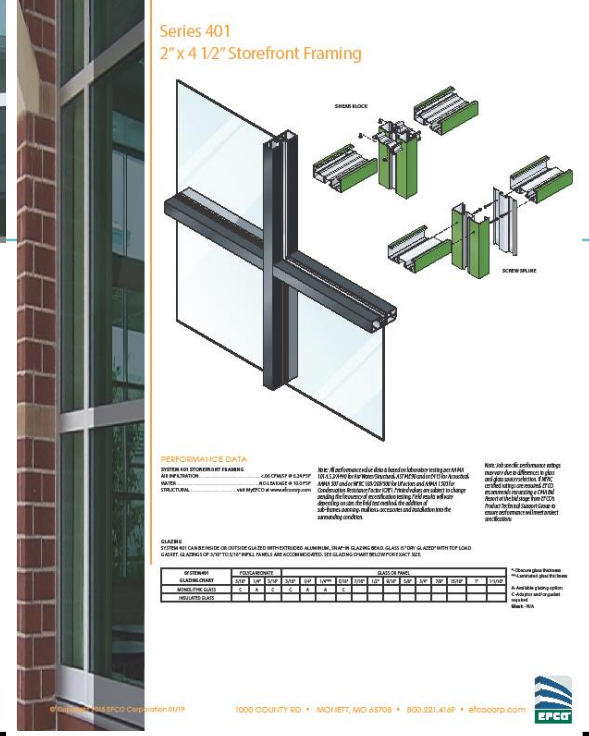

Series 401
2" x 4 1/2" Storefront Framing

PERFORMANCE DATA

GLAZING

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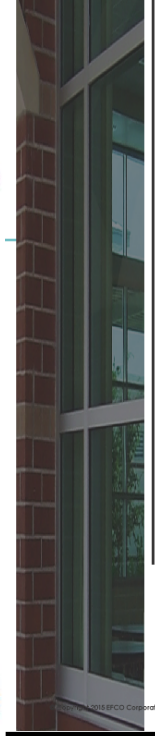

Series 401
2" x 4 1/2" Storefront Framing

Frame Construction
The frames have a depth of 4 1/2" and a nominal material wall thickness of .080". Members are extruded 6063-T6 aluminum alloy. Corner construction employs screw spline or shear block methods. See Illustration 1 & 2.

Door Frames
System 401 offers integral entrance frames as a part of the framing system. Members are nominally .080" in thickness.

Weather Stripping
All entrance frames are weather-stripped with bulb gasket.

Glazing
System 401 can be inside or outside glazed with extruded aluminum, snap-in glazing bead. Glass is "dry glazed" with top load gasket. Glazings of 3/16" to 5/16" infill panels are accommodated. See Glazing Chart for exact size.

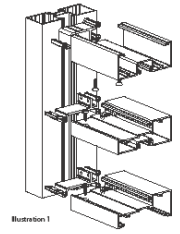

Illustration 1

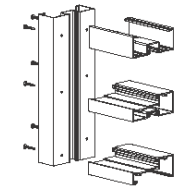

Illustration 2

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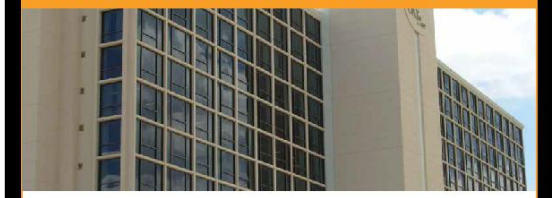
WINDOWS • CURTAIN WALLS • ENTRANCES • STOREFRONTS

XFORCE

Series 525
2 1/2" x 5" Impact/Blast Grade Storefront Framing



CONFIGURATIONS
Outside Glazed

Series 525 is a non-thermal storefront framing system developed and tested to the most stringent impact requirements. Series 525 is compatible with all EFCO standard 1 3/4" and 2" Durastile™ doors. Series 525 framing system is fabricated with shear blocks or screw spline configurations, which contributes to the system's design flexibility. The system utilizes #12 fasteners in a screw spline application, allowing for fabrication of ladders prior to installation and overall quicker installation time. Florida Product Approval 13599.7.

Features	Benefits
Screw spline construction	Allows assembly of sections prior to installation
	Decreases installation time
Shear block construction	Ability to erect on the job site
Integral door adaptors	Compatible with all 1 3/4" and 2" EFCO doors
Joint fasteners are #12	Strengthens system
	Simplifies fabrication
Horizontals are square cut	Eliminates notching
	Easier fabrication and assembly
Exterior removable stop at sill and horizontal	Allows glazing from the exterior
Interlocking legs at sub-sill	Holds sill in place
	No "blind" seals are required at the sill
Head and jamb anchors are inside the glazing pocket	Anchors are not visible
Accommodates up to 5/8" glazing	Expands design and energy savings options
Accessory line of perimeter anchors, pocket fillers, door adaptors, etc.	Increased product versatility
Anodized or painted finishes available	Multiple options to answer economic and aesthetic concerns

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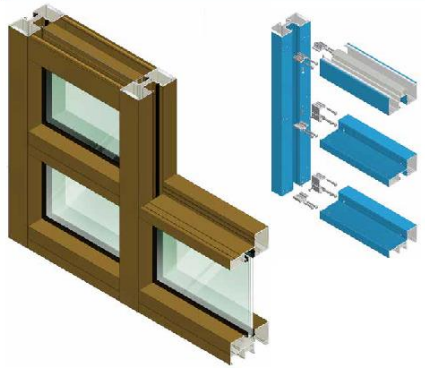
Series 525
2 1/2" x 5" Impact/Blast Grade Storefront Framing



PERFORMANCE DATA

1000 COUNTY RD • MONETT, MO 65708 • 800.221.4169 • efcocorp.com

WINDOWS • CURTAIN WALLS • ENTRANCES • STOREFRONTS

Series 525
2 1/2" x 5" Impact/Blast Grade Storefront Framing

Frame Construction
Members are extruded 6063-T6 aluminum alloy with a nominal wall thickness of .080". Corner constructions employ a screw spline or shear block method and utilizes #12 fasteners. Frame members have a face sight line of 2 1/2" and frame depth of 5". See Illustration 1.

Door Frame Construction
System 525 offers integral entrance frames as a part of the framing system. Members are nominally .080" in thickness. A standard entrance header is available as well as an entrance header that is designed for use with concealed overhead closers. Transom lite glazing is accommodated through applied glass stops and glazing beads.

Weather Stripping
All entrance frames are weather-stripped with bulb gasket.

Glazing
System 525 is structural silicone glazed in the interior with a dry glazed gasket on the exterior. Varying gaskets are used on the exterior depending on the system configuration required. Glazings from 7/16" to 5/8" infill panels are accommodated.

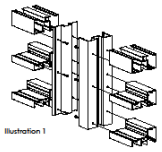


Illustration 1

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ARTISTIC RENDERINGS, AERIAL IMAGES AND AXONS ARE PROVIDED FOR PROJECT ORIENTATION ONLY. RENDERINGS, AERIAL IMAGES AND AXONS ARE NOT TO SCALE AND DO NOT NECESSARILY ACCURATELY REFLECT ALL PROVISIONS OF THE CONTRACT DOCUMENTS.

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
CONSTRUCTION DOCUMENTS

07.30.2020

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ENGINEERING
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STATE OF SOUTH CAROLINA
STEVENS & WILKINSON OF SOUTH CAROLINA, INC.
COLUMBIA
REGISTERED ARCHITECTURE
CORPORATE SEAL

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19005.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

COVER SHEET

G1.00

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DRAWING REFERENCE SYMBOLS

DRAWING NAME
1/8" = 1'-0"
DRAWING # ON SHEET
DRAWING TITLE
DRAWING SCALE

DRAWING IDENTIFICATION ON SHEET
DRAWING # ON SHEET
SHEET # ON WHICH DRAWING CAN BE FOUND

EXTERIOR ELEVATION REFERENCE
DRAWING # ON SHEET
SHEET # ON WHICH DRAWING CAN BE FOUND

INTERIOR ELEVATION REFERENCE
DRAWING # ON SHEET
SHEET # ON WHICH DRAWING CAN BE FOUND

BUILDING SECTION REFERENCE
DRAWING # ON SHEET
SHEET # ON WHICH DRAWING CAN BE FOUND

WALL SECTION REFERENCE
DRAWING # ON SHEET
SHEET # ON WHICH DRAWING CAN BE FOUND
AREA DETAILED
DRAWING # ON SHEET
SHEET # ON WHICH DRAWING CAN BE FOUND

DETAIL SECTION REFERENCES

DRAWING CONVENTIONS LEGEND
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- NON RATED PARTITION - CMU
- NON RATED PARTITION - MTL STUDS
- NON RATED SMOKE RATED PARTITION
- SMOKE RATED PARTITION - CMU
- 1 HOUR RATED PARTITION - MTL STUDS
- 1 HOUR RATED PARTITION - CMU
- 2 HOUR RATED PARTITION - MTL STUDS
- 2 HOUR RATED PARTITION - CMU
- 3 HOUR RATED PARTITION - MTL STUDS
- 3 HOUR RATED PARTITION - CMU
- 4 HOUR RATED WALL ASSEMBLY
- CENTERLINE
- BUILDING ELEMENTS ABOVE
- COLUMN GRID REFERENCE
- EXISTING COLUMN GRID REFERENCE
- ALIGNMENT REFERENCE
- OPENING REFERENCE
- MATCHLINE

REFERENCE CONVENTIONS

ELEVATION (FLOOR/LEVEL) REFERENCE
NAME OF ELEVATION/LEVEL
PROJECT ELEVATION
WORKING POINT, CONTROL POINT OR DATUM
PROJECT ELEVATION

REFERENCE ELEVATION
PROJECT ELEVATION

SPOT ELEVATION
NAME (AT OCCUPANT COUNT PLANS AND LIFE SAFETY PLANS, THIS IS THE OCCUPANT LOAD FACTOR TYPE)
SQUARE FOOTAGE
NUMBER (IF USED)
OCCUPANT LOAD COUNT (IF USED)
ZONE (IF USED)

AREA REFERENCE
ROOM NAME
ROOM NUMBER
AREA (IF USED)

ROOM REFERENCE
DESIGN # OF OCCUPANTS
MAXIMUM # OF OCCUPANTS ALLOWABLE PER EGRESS SYSTEM WIDTH

EGRESS CAPACITY TAG
CORE AND FINISH CONFIGURATION
CORE AND FINISH SIZE
SPECIAL CONDITIONS (IF USED)

PARTITION TYPE IDENTIFICATION
PARTITION RATING *NOTED ON LIFE SAFETY PLANS
*SEE PARTITION SHEET FOR MORE INFO

CEILING TYPE IDENTIFICATION
CEILING ELEVATION
CEILING MATERIAL
CEILING ELEVATION

ROOF IDENTIFICATION
RUN (IN INCHES)
RISE (IN INCHES) PER RUN

SLOPE IDENTIFICATION
DOOR # - SEE DOOR SCHEDULE
DOOR & FRAME RATING IN MINUTES

DOOR IDENTIFICATION
PUNCHED WINDOW ELEVATION # SEE WINDOW ELEVATIONS
CURTAINWALL ELEVATION # SEE CURTAINWALL ELEVATIONS
STOREFRONT ELEVATION # SEE STOREFRONT ELEVATIONS
*FM WILL BE USED FOR FIRE RATED EXTERIOR GLAZED SYSTEMS

EXTERIOR GLAZED WALL OPENING IDENTIFICATION
HOLLOW METAL BORROWED LITE ELEVATION # SEE HOLLOW METAL FRAME ELEVATIONS
INTERIOR STOREFRONT ELEVATION # SEE STOREFRONT ELEVATIONS
FIRE RATED INTERIOR GLAZED SYS # SEE ELEVATIONS
ALL GLASS SYS # SEE ALL GLASS SYSTEM ELEVATIONS

INTERIOR GLAZED WALL OPENING IDENTIFICATION
GLAZING PANEL IDENTIFICATION. SEE GLAZING LEGEND & SPECIFICATIONS

GLAZING IDENTIFICATION
FURNITURE/EQUIPMENT ITEM NO. SEE SCHEDULE FOR MORE INFO

FURNITURE/EQUIPMENT IDENTIFICATION
TOILET ACCESSORY ITEM NO. SEE SCHEDULE FOR MORE INFO

TOILET ACCESSORY IDENTIFICATION
ELEVATION MARKER, SEE ELEVATIONS ON SHEET A10.XX
SIZE (WIDTH x DEPTH x HEIGHT)

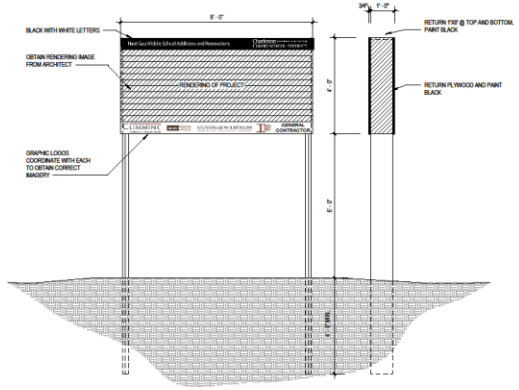
CASEWORK IDENTIFICATION

RCP LEGEND
2' x 2' ACOUSTICAL CEILING PANEL. SEE CEILING TAG FOR TYPE
GYPSUM WALLBOARD SOFFIT/CEILING. SEE CEILING TAG FOR TYPE
ACOUSTIC BARREL DIFFUSER 48" X 48" X 7"

DEMOLITION LEGEND
AREA OF "NO WORK" CEILING MOUNTED CAMERA, SEE ELECTRICAL DRAWINGS
AREA OF DEMOLITION AS DESCRIBED

ROOF LEGEND
ROOF WALKING PAD
RD ROOF DRAIN
OD OVERFLOW ROOF DRAIN
PARAPET
SCUP THRU-WALL SCUPPER

GLAZING LEGEND
- IG-1 1" INSULATED LOW-E
- IG-1T 1" TEMPERED INSULATED LOW-E
- GL-1 1/4" CLEAR FLOAT GLASS
- GL-1T 1/4" CLEAR TEMPERED FLOAT GLASS
- GL-2T 1/2" CLEAR TEMPERED FLOAT GLASS



FRONT ELEVATION
(3) SHEETS PLYWOOD @ 4'X8'
(4) 2X12'S @ 14' EA SIDE INTO GIROUND 4' MIN.
(2) 2X12'S TOP AND BOTTOM

SIDE ELEVATION

1 Job Sign
1/2" = 1'-0"

INDEX OF DRAWINGS

S&W
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NORTH CHARLESTON, SOUTH CAROLINA 29405

STATE OF SOUTH CAROLINA — STEVENS & WILKINSON, LTD. — COLUMBIA — CORPORATE SEAL

STATE OF SOUTH CAROLINA — LINDA R. SHANNAHAN — REGISTERED ARCHITECT — ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19055.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

DRAWING INDEX, LEGENDS AND DRAWINGS STANDARDS

G1.01

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ABBREVIATIONS LEGEND

A

AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
AD	AREA DRAIN
ADA	AMERICANS W/ DISABILITIES ACT
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANNO	ANODIZED
APC	ACOUSTICAL PANEL CEILING
APPD	APPROVED
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ATC	ACOUSTICAL TILE CEILING
AUTO	AUTOMATIC
AV	AUDIO VISUAL

B

BEJ	BRICK EXPANSION JOINT
BD	BOARD
BLKG	BLOCKING
BLDG	BUILDING
BFF	BETWEEN FINISH FACES
B.M.	BENCH MARK
BOT	BOTTOM
B.R.	BUMPER RAIL
BSMT	BASEMENT
BUR	BUILT UP ROOF
B/W	BETWEEN

C

CAB	CABINET
CAT	CATEGORY
CB	CATCH BASIN
CBU	CEMENTITIOUS BACKER UNIT
CC	CENTER TO CENTER
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
C.G.	CORNER GUARD
CHAN	CHANNEL
C.I.	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT (CONSTRUCTION JOINT)
C.L.	CENTER LINE
CLG	CEILING
CLK BD	CHALK BOARD
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
C.O.	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATION
CORR	CORRIDOR
CR	CARD READER
CR-X	CARD READER A, B, C, ETC
CPT	CARPET
CT	CERAMIC TILE
CT	COOLING TOWER
CTR	CENTER
CTSK	COUNTERSUNK
CW	COLD WATER (PIPING)

D

D	DEEP
D.A.	DOUBLE ACTING
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DETL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DIS	DISABLED
DISP	DISPENSER
DMPF	DAMPPROOFING
DMS	DOOR MONITORING SWITCH
DMT	DEMOUNTABLE
D.O.	DOOR OPENING
D.P.	DIMENSION POINT
DPTN	DEMOUNTABLE PARTITION
DR	DOOR
DRN	DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER

E

EA	EACH
E.B.	EXPANSION BOLT
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EFS	EXTERIOR FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELECTRIC LATCH RETRACTION
ELEC	ELECTRICAL
ELEV	ELEVATION
ELVTR	ELEVATOR
EMERG	EMERGENCY
ENCLO	ENCLOSURE
E.P.	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EPDM	SINGLE PLY ROOF
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT STF	EXTERIOR STOREFRONT
EXT	EXTERIOR

F

FA	FIRE ALARM
FB	FACE BRICK
F.C.	FURRED CEILING
F.D.	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
F.F.L.	FINISHED FLOOR LINES
F.F.E.	FINISHED FLOOR ELEVATION
FF&E	FURNITURE, FINISHES & EQUIPMENT
F.H.	FLAT HEAD
F.H.C.	FIRE HOSE CABINET
FIN	FINISHED
FIXT	FIXTURE
FL	FLOOR
FLASH	FLASHING
FLG	FLOORING
FLUOR	FLUORESCENT
FND	FOUNDATION
F.O.	FACE OF
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
FP	FIRE PROTECTION
FR	FRAME
FPG	FIREPROOFING
FRTW	FIRE RETARDANT TREATED WOOD
FT	FEET
FTG	FOOTING
FURN	FURNITURE
FURR	FURRING
FV	FIELD VERIFY
FWC	FABRIC WALLCOVERING
FWP	FABRIC WRAPPED PANEL

G

GA	GAUGE
GALV	GALVANIZED
G.B.	GRAB BAR
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GL BLK	GLASS BLOCK
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

H

H	HIGH
HB	HOSE BIB
HCW	HOLLOW CORE WOOD
HC	HANDICAPPED
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
H.O.	HOLD OPEN
HORZ	HORIZONTAL
HRC	HOSE REEL CABINET
HR	HOUR
HS	HEAT STRENGTH (GLASS)
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
HYDR	HYDRAULIC

I

IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDED (INCLUDING)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INT STF	INTERIOR STOREFRONT
INTERM	INTERMEDIATE
INV	INVERT (INVERSE)
IPS	INTERNATIONAL PIPE STANDARD
IRMA	INVERTED ROOF MEMBRANE

J

JAN CLO	JANITOR CLOSET
J-BOX	JUNCTION BOX
JST	JOIST
JT	JOINT

K

K	KIP (1000 LBF)
K.D.	KNOCKED DOWN
KG	KILOGRAM
KIT	KITCHEN
K.O.	KNOCKOUT
KPL	KICK PLATE

L

L	LONG
LAB	LABORATORY
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
LAM	LAMINATE (LAMINATION)
LAU	LAUNDRY
LAV	LAVATORY
LB	POUND
LD	LEADER
LDG	LANDING
LEV	LEVEL
LF	LINEAR FOOT
LGT	LIGHT
LKR	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LN	LINE
LS	LIMESTONE
LV	LOUVER
LWC	LIGHTWEIGHT CONCRETE

M

M	METER
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
M.B.	MACHINE BOLT
MBL	MARBLE
M.C.	MAIL CHUTE
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED CAB	MEDICINE CABINET
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MHO	MAGNETIC HOLD OPEN DEVICE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MAGNETIC LOCK
MM	MILLIMETER
M.O.	MASONRY OPENING
MOV PART	MOVING PARTITION
M.S.	MACHINE SCREW
M.S.L.	MEAN SEA LEVEL
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION

N

N	NORTH
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NECC	NATIONAL ENERGY CONSERVATION CODE
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OC	ON CENTER
OCEW	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER/DIMENSION
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OUTS	OUTSIDE
OVHD	OVERHEAD

P

PAV	PAVING
PARTN	PARTITION
PATD	PAPER TOWEL DISPENSER
PBD	PARTICLEBOARD
P.C.	PRECAST CONCRETE
PDF	POWER DRIVE FASTENER
PDO	POWER DOOR OPERATOR
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PF	POINT OF INTERSECTION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINER FOOT
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POL	POLISHED
PORT	PORTABLE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PT	PORCELAIN TILE/ PAVER TILE
PTD	PAINTED
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE

Q

QT	QUARRY TILE
QTY	QUANTITY

R

R	RADIUS
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE (RESILIENT BASE)
RCP	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
REC	RECESSED
RECOM	RECOMMENDED
RECPT	RECEPTACLE
REF	REFERENCE
REFL	REFLECTIVE
REFRG	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REL	RELOCATE
REM	REMOVABLE
REQ	REQUIRED /REQUIRED
RESIL	RESILIENT
REV	REVISION
RF	ROOF
RM	ROOM
R.O.	ROUGH OPENING
RTD	RATED
RTG	RATING
RUB	RUBBER
RWL	RAIN WATER LEADER
RX	REQUEST TO EXIT SWITCH

S

S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SB	SPLASHBLOCK
SCUP	SCUPPER
S.C.	SOLID CORE
SCHED	SCHEDULE
SCW	SOLID CORE WOOD
SD	STORM DRAIN
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FEET / SQUARE FOOT
SH	SPRINKLER HEAD
SHTHG	SHEATHING
SHT	SHEET
SHR	SHOWER
SIM	SIMILAR
S.M.	SHEET METAL
SND	SANITARY NAPKIN DISPENSER
SP	STANDPIPE
SPEC	SPECIFICATION
SPR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SQ FT	SQUARE FOOT
SF	SQUARE FOOT
SS	STAINLESS STEEL
SSE	STRUCTURE SLAB ELEVATION
SST	STAINLESS STEEL
SSK	SERVICE SINK
STA	STATION
ST	STREET
STD	STANDARD
STL	STEEL
STL JST	STEEL JOIST
STL ST	STAINLESS STEEL
STN	STAINED
STS	SELF TAP METAL SCREW
STOR	STORAGE
STRL	STRUCTURAL
STRUC	STRUCTURAL
STS	SELF TAP METAL SCREW
SUBCAT	SUBCATEGORY
SUSP	SUSPENDED
SYMM	SYMMETRICAL
SYS	SYSTEM

T

T	THERMOSTAT
TB	TOWEL BAR
T.C.	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPERATURE
TER	TERRAZZO
TFF	TO FINISH FACE
TGB	TOGGLE BOLT
THK	THICK/THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TLT	TOILET
TMPD	TEMPERED
T.O.	TOP OF
T.O.P.	TOP OF PARAPET
T.O.M.	TOP OF MASONRY
T.O.C.	TOP OF CMU
T.O. CONC	TOP OF CONCRETE
T.O.S.	TOP OF SLAB
T.O.STL	TOP OF STEEL
T.O.W.	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TRACT	TRACTION
TRT	TREATED
TV	TELEVISION
T.W.	TOP OF WALL
TYP	TYPICAL

U

UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL

V

VAC	VENTILATION AND AIR CONDITIONING
VAC	VACUUM
V.B.	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VT	VINYL TILE
VR	VAPOR RETARDER
VWC	VINYL WALL COVERING

W

W	WIDE
W/	WITH
W/O	WITHOUT
WAT HTR	WATER HEATER
WC	WATER CLOSET
WD	WOOD
WDS	WOOD SCREW
WD DR	WOOD DOOR
WDW	WINDOW
W.F.	WIDE FLANGE STEEL
WGT	WEIGHT
W.GL	WIRE GLASS
W.H	WEEP HOLE
W.I.	WROUGHT IRON
WIN	WINDOW
W.L.	WATER LINE
WP	WATERPROOFING
WPM	WATERPROOFING MEMBRANE
WPT	WORK POINT
WR	WATER RESISTANT/REPELLANT
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
W.W.	WALL TO WALL
W.W.M.	WELDED WIRE MESH

GENERAL NOTES

1. THE CONTRACT DOCUMENTS CONSIST OF THIS SET OF DRAWINGS, THE PROJECT MANUAL, ADDENDA, CONSTRUCTION CHANGE DIRECTIVES, CHANGE ORDERS, THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR, CONDITIONS OF THE CONTRACT AND ANY OTHER INFORMATION WRITTEN AND MUTUALLY AGREED UPON BETWEEN THE OWNER AND THE CONTRACTOR.
2. THIS SET OF DRAWINGS HAS AN ACCOMPANYING PROJECT MANUAL, WHICH IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL ASPECTS OF THESE DRAWINGS ARE DEPEND ON THE INFORMATION CONTAINED THEREIN.
3. THESE DRAWINGS ARE COMPLEMENTARY AND INTERRELATED: WORK OF ANY INDIVIDUAL TRADE IS NOT NECESSARILY CONFINED TO SPECIFIC DOCUMENTS, CHAPTERS OR LOCATIONS.
4. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
5. WHERE DETAILS ARE SHOWN ON ARCHITECTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE ON THE PLANS.
6. APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF DRAWINGS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THERE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
7. CONTRACTOR SHALL COORDINATE ALL CIVIL DOCUMENTS INCLUDED IN THIS SET WITH EXISTING SITEWORK CONDITIONS AND REPORT ANY DISCREPANCIES IN THE DOCUMENTS TO THE ARCHITECT.
8. IF DISCREPANCIES OR INCONSISTENCIES IN THE DOCUMENTS ARE DISCOVERED, NOTIFY THE ARCHITECT IMMEDIATELY USING THE DESIGNATED "REQUEST FOR INFORMATION" PROCEDURE AS SPECIFIED IN THE PROJECT MANUAL.
9. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
10. DO NOT SCALE THE DRAWINGS; USE DIMENSIONS ONLY. NOTIFY ARCHITECT OF SIGNIFICANT DISCREPANCIES IMMEDIATELY UPON DISCOVERY.
11. THESE DOCUMENTS MAY CONTAIN 3-D AXON AND AERIAL IMAGES FOR PROJECT ORIENTATION. THESE IMAGES MAY NOT ACCURATELY REFLECT ALL PROVISION OF THE CONTRACT DOCUMENTS. THESE IMAGES ARE ARTISTIC IN NATURE AND DO NOT TAKE PRECEDENCE OVER NOTES, DIMENSION OR DETAILS SHOWN AT THESE DOCUMENTS.
12. IT IS THE INTENT OF THE CONTRACT DOCUMENT TO COMPLY WITH ALL CODES AND ORDINANCES IN EFFECT AT THE TIME THE PERMIT IS ISSUED. NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF SUSPECTED DEVIATION.
13. ALL UL AND ASTM STANDARDS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION UNLESS NOTED OTHERWISE.
14. EQUIVALENT MATERIALS SUBSTITUTED AS PER "APPROVED EQUAL" NOTE SHALL BE APPROVED BY THE ARCHITECT/ENGINEER OF RECORD BEFORE ACCEPTANCE OF BID BY GENERAL CONTRACTOR. ANY MATERIAL DESIGNATED WITH A BRAND NAME MAY BE SUBSTITUTED WITH IT'S EQUAL IF THE SO CALLED EQUIVALENT IS FIRST APPROVED BY THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL SUPPLY INFORMATION AS REQUESTED TO VERIFY MATERIAL IS EQUAL TO SPECIFIED MATERIAL. SEE SPECIFICATIONS FOR APPROPRIATE PROTOCOLS FOR REVIEW OF SUBSTITUTION REQUESTS.
15. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE ARCHITECT/ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE ARCHITECT/ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENTS SPECIFICATIONS DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS AND SUPPLIERS.
16. CONTRACTOR SHALL PROVIDE PROJECT SIGNAGE INCLUDING RENDERING OF BUILDING, NAME OF OWNER, ARCHITECT, ENGINEER AND MAJOR SUB-CONTRACTORS.
17. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE PROJECT STATE. SUBMITTAL OF SUCH SYSTEMS TO THE ARCHITECT/ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND OR SIZES OF MEMBERS SHOWN ON THE CONTRACT DOCUMENTS, AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE ARCHITECT/ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED WITHIN THE CONTRACT DOCUMENTS. SEE SPECIFIC SECTIONS OF GENERAL NOTES ABOVE AND THE SPECIFICATIONS FOR APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER.
18. FIRE ALARM, SPRINKLER SYSTEMS, AND KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS SHALL BE SUBMITTED AND APPROVED BY THE FIRE MARSHALL'S OFFICE HAVING JURISDICTION PRIOR TO INSTALLATION.
19. ALL EQUIPMENT, SPECIALTIES, FURNISHINGS AND CASEWORK INDICATED ON THE DOCUMENTS SHALL BE INCLUDED IN THE CONTRACT UNLESS SPECIFICALLY INDICATED TO NOT BE IN THE CONTRACT (N.I.C.).
20. ALL TRAILER AND/OR CONSTRUCTION OFFICES SHALL BE PERMITTED SEPARATELY FROM BUILDING PERMIT. PERMITS SHALL BE PURCHASED BY THE GENERAL CONTRACTOR FROM THE AUTHORITY HAVING JURISDICTION. THE COST OF PERMITS SHALL BE INCLUDED IN THE CONTRACT COST.
21. MECHANICAL, PLUMBING AND ELECTRICAL SUBCONTRACTORS SHALL SUBMIT AFFIDAVITS FOR EACH BUILDING PERMIT TO THE BUILDING PERMITS SECTION BEFORE REQUESTING INSPECTIONS. OBTAIN AFFIDAVITS FROM THE BUILDING PERMITS SECTION.
22. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL ITEMS, EQUIPMENT, HARDWARE, CLEARANCES, MOUNTING HEIGHTS, SIGNAGE, SYSTEMS, ETC BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REPORT TO THE ARCHITECT ANY DISCREPANCIES NOTED BETWEEN THE REQUIREMENTS OF THE ACT AND THE DOCUMENTS AND WAIT FOR DIRECTIONS ON THE RESOLUTION OF THE DISCREPANCIES.
23. EXTERIOR SIGNAGE LOCATIONS, NUMBER, SIGN AND DESIGN ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN.
24. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, WHETHER OR NOT THEY ARE SHOWN. CONTRACTOR SHALL PROTECT FROM DAMAGE, ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES AND OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
25. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE, WHILE CONSTRUCTION IS IN PROGRESS AND UNTIL JOB IS COMPLETE.
27. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
28. CONSTRUCTION TECHNIQUES, PROCEDURES, SEQUENCING AND SCHEDULING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
29. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT PRIOR TO INSTALLATION. ANY FIRE ALARM PLANS INCLUDED IN THIS SET OF PLANS ARE FOR REFERENCE ONLY. NOT FOR PERMIT.
30. FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A FIRE SPRINKLER PERMIT PRIOR TO INSTALLATION. ANY FIRE SPRINKLER PLANS INCLUDED IN THIS SET OF PLANS ARE FOR REFERENCE ONLY. NOT FOR PERMIT.
31. WALLS THAT ARE NOT TAGGED SHALL MATCH AJACENT WALLS OF LIKE SIZE AND INDICATION INCLUDING RATING. WALLS SHALL CONTINUE TO DECK UNLESS OTHERWISE INDICATED.

GENERAL DEMOLITION NOTES

A. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS OR ANY FIELD CONDITIONS WHICH DIFFER FROM THOSE DESCRIBED WITHIN THE DOCUMENTS.
B. ALL REQUIRED DEMOLITION IS INCLUDED IN THE GENERAL CONTRACT. DEMOLITION CONSISTS OF THE REMOVAL OF ANY EXISTING ELEMENT WHICH INTERFERES WITH THE COMPLETION OF NEW CONSTRUCTION OR TEMPORARY EGRESS MEASURES.
C. DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE CONSTRUCTION SITE ON A DAILY BASIS.
D. ALL SURFACES DISTURBED BY DEMOLITION, CUTTING OR PATCHING SHALL BE LEFT WITH A "CLEAN CUT" TO FACILITATE THE MATCHING OF EXISTING SURFACES WITH ADJACENT NEW CONSTRUCTION.
E. ANY DAMAGE TO EXISTING CONDITIONS CAUSED BY DEMOLITION AND/OR NEW WORK SHALL BE REPAIRED AS DETAILED, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
F. THE CONTRACTOR SHALL INSTALL TEMPORARY BARRIERS AS REQUIRED TO PREVENT THE SPREAD OF DUST AND FUMES TO AREAS NOT INCLUDED IN THE WORK.
G. THE CONTRACTOR SHALL MAINTAIN EMERGENCY EGRESS OF OCCUPANTS OF ADJACENT BUILDINGS AND TENANTS AT ALL TIMES.
H. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND OBTAIN APPROVALS FOR ANY ACTIVITIES WHICH INVOLVE ANY UTILITY INTERRUPTIONS OR EXCESSIVE NOISE.
I. THE CONTRACTOR SHALL PROTECT ADJACENT EXISTING ROOF SURFACES FROM DAMAGE BY DEMOLITION AND CONSTRUCTION ACTIVITIES, ANY REPAIR ANY DAMAGE THAT OCCURS.
J. DO NOT STORE ANY MATERIALS ON ADJACENT ROOFS, AND LIMIT FOOT TRAFFIC TO THE EXTENT POSSIBLE.
K. DIMENSIONS SHOWN ON EXISTING PLANS ARE SHOWN AS A REFERENCE AND SHALL BE CONSIDERED +-. IF EXACT DIMENSIONS ARE REQUIRED, FIELD MEASUREMENTS SHALL BE TAKEN BY THE CONTRACTOR.
L. ANY DUCT WORK SHOWN PASSING THROUGH A NEW OR EXISTING WALL CARRYING A FIRE RATING SHALL BE EQUIPPED WITH APPROPRIATE FIRE RATED DAMPERS AT THE POINT OF INTERSECTION WITH THE WALL.
M. ANY NEW OR EXISTING PIPING CONDUIT OR WIRING PASSING THROUGH A NEW OR EXISTING WALL CARRYING A FIRE RATING SHALL BE SEALED TIGHT TO THE WALL WITH A UL APPROVED METHOD.
N. WHERE NEW DOORS ARE SHOWN TO BE INSTALLED IN EXISTING MASONRY WALLS, NEW MASONRY SHALL BE INSTALLED AT EXISTING HEAD AND JAMBS AS REQUIRED FOR NEW DOOR INSTALLATION.
O. ALL PEELING PAINT SHALL BE SCRAPED FROM EXISTING WALLS AND WALLS SHALL BE CLEANED PRIOR TO REPAINTING.
P. WHEN EXISTING PAINTED SURFACES ARE PATCHED IN VISIBLE AREAS, THE ENTIRE SURFACE OR WALL SHALL BE PAINTED TO ACHIEVE A UNIFORM APPEARANCE.
Q. ALL HOLES IN MASONRY WALLS, EXISTING OR MADE BY THE REMOVAL OF ANY FIXTURES OR EQUIPMENT, SHALL BE PATCHED WITH MASONRY TO MATCH EXISTING. INSTALL NEW MASONRY FLUSH WITH EXISTING ON BOTH SIDES.
R. REMOVE ALL WALL BRACKETS, PLASTIC SHIELDS, HOOKS, CLIPS, NAILS, TAPE AND SCREWS ON EXISTING WALLS IN PREPARATION FOR SMOOTH CLEAN SURFACE (TYPICAL AT SPACES WHERE NEW FINISH IS SCHEDULED).
S. ALL DEMOLITION SHALL BE PERFORMED TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH ARE INTENDED TO REMAIN IN USE AND THE ROUTING OF WHICH CAN NOT BE PRE-DETERMINED UNTIL DEMOLITION IS STARTED. ALL SUCH DISCOVERIES OF UTILITIES WHICH ARE IN A DIFFERENT LOCATION FROM THAT INDICATED, CHANGE DIRECTION FROM FLOOR-TO-FLOOR, ETC. OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT BEFORE REMOVAL OR DISTURBANCE.
T. REMOVE ALL WALL MOUNTED ACCESSORIES IN AREAS OF DEMOLITION AND RENOVATION. PATCH/REPAIR WALLS TO MAKE SMOOTH AND PREPARE FOR NEW WALL FINISH. REINSTALL ANY REUSED/RELOCATED WALL ACCESSORIES PER MANUFACTURER'S INSTRUCTIONS.
U. SEE CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION ON DEMOLITION AND CONSTRUCTION TO REMAIN.
V. AT AREAS WHERE NEW SYSTEMS ARE INSTALLED ABOVE EXISTING ACOUSTICAL LAY-IN CEILINGS, REMOVE THE CEILING TILES AND STORE IN A LOCATION AS DIRECTED BY THE OWNER. REINSTALL THE TILE UPON COMPLETION OF THE SYSTEMS WORK. PROTECT TILES FROM DAMAGE, DIRT OR STAINING. REPLACE ANY TILE WHICH DOES GET DAMAGED, DIRTY OR STAINED WITH NEW TILES MATCHING THE TYPE OF THE ADJACENT EXISTING TILES.
W. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. WHERE GENERAL DEMOLITION NOTES DO NOT AGREE WITH SPECIFICATIONS, REFER DISCREPANCY TO ARCHITECT FOR RESOLUTION.
X. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. SHOULD THEY DIFFER FROM THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.

GENERAL NOTES - MASONRY

1. WHERE A MASONRY PARTITION IS LOCATED ON A DEPRESSED SLAB CONDITION, INSTALL A MASONRY GROUT BASE UP TO THE LEVEL OF TYPICAL FLOOR SLAB TO MAINTAIN CONSISTENT MASONRY COURSING LEVEL. ALLOW GROUT BASE TO CURE PRIOR TO INSTALLING MASONRY PARTITION ABOVE.
2. SEE STRUCTURAL DRAWINGS FOR STEEL ANGLE LINTEL AND CMU LINTEL SCHEDULES. PROVIDE LINTELS AT ALL MASONRY OPENINGS OVER 1'-4" WIDE.
3. STEEL LINTEL MATERIALS FOR BRICK VENEER SHOWN IN THE SCHEDULES ARE MINIMUMS. THE CONTRACTOR SHALL COORDINATE AND PURCHASE LINTELS SO THAT THE INSTALLED HORIZONTAL LEG OF THE ANGLES AND OR BENT PLATES ARE SIZED SO THAT THE HORIZONTAL LEG EXTENDS FROM THE FACE OF THE BACK UP MATERIAL TO WITHIN 3/4" OF THE EXTERIOR FACE OF THE BRICK VENEER, PROVIDING FULL CLOSURE OF THE WALL CAVITY.
4. ALL BRICK AND CMU CONTROL JOINTS SHALL BE AS DETAILED AND LOCATED ON THE DRAWINGS OR SHALL BE INSTALLED AT THE MAXIMUM SPACING INDICATED IN THE SPECIFICATIONS, WHICHEVER IS THE SMALLER DIMENSION.
5. CMU CONTROL JOINTS SHALL CONSIST OF THE SPECIFIED NEOPRENE PADS.
6. IF CONTROL JOINTS ARE NOT INDICATED ON THE DRAWINGS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THEM IN ACCORDANCE WITH ASTM STANDARD MINIMUMS.
7. AT ALL LOCATIONS WHERE A CMU PARTITION OR WALL TERMINATES AT A CAST-IN-PLACE CONCRETE SURFACE, INSTALL DOVETAIL ANCHOR SLOTS WITH ANCHORS AT 16" O.C. VERTICAL.
8. PROVIDE GROUTED CMU CORES OR BLOCKING AS REQUIRED FOR ALL CONTRACTOR AND OWNER FURNISHED WALL MOUNTED ITEMS INDICATED ON THE DRAWINGS.
9. ALL MASONRY CONSTRUCTION SHALL BE ANCHORED TO STEEL OR CONCRETE STRUCTURE AS DETAILED OR BY USE OF ANCHORS SPECIFIED IF ANCHORS ARE NOT INDICATED ON THE DRAWINGS. ALL ANCHORING SYSTEMS SHALL ALLOW DIFFERENTIAL MOVEMENT BETWEEN THE STRUCTURE AND THE MASONRY UNLESS INDICATED OTHERWISE.
10. AT ALL CONCRETE MASONRY WALLS OR PARTITIONS WHICH TERMINATE AT AN UNBRACED CONDITION (NOT A CORNER OR PERPENDICULAR WALL), INSTALL REINFORCING AND GROUT IN CELL PER STRUCTURAL DRAWINGS.
11. INSTALL REINFORCING AND GROUT AT ALL CMU CELLS ADJACENT TO OPENINGS FOR DOORS, WINDOWS OR OTHER PENETRATIONS. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
12. COORDINATE WITH STRUCTURE, ALL MASONRY REINFORCING SHOWN ON ARCHITECTURAL DOCUMENTS.
13. WHERE A RATED 8" THICK CONCRETE MASONRY PARTITION IS REDUCED IN WIDTH AT A COLUMN, CHASE OR OTHER LOCATION - INSTALL UL LISTED CMU OF INDICATED WIDTH TO MAINTAIN RATING OR GROUT SOLID AS REQUIRED TO MAINTAIN RATING IN ACCORDANCE WITH THE INTENTIONAL BUILDING CODE TABLE 720.1(2).
14. PROVIDE THROUGH WALL FLASHING, WEEP HOLES AND WICKS AT ALL EXTERIOR MASONRY VENEER LOCATIONS WHERE A HORIZONTAL OBSTRUCTION OF ANY SORT OCCURS (OTHER THAN HORIZONTAL JOINT REINFORCING OR MASONRY TIES).
15. ALL EXPOSED CMU CORNERS SHALL BE BULLNOSE TYPE.
16. WHERE EXISTING MASONRY WALLS ARE TO BE INFILLED, NEW MASONRY IS TO BE TOOTHED IN. SAW CUT JOINTS WILL NOT BE ALLOWED.

GENERAL NOTES - BUILDING ENVELOPE

1. IT IS THE INTENT OF THE DOCUMENTS TO PROVIDE A COMPLETELY WATERPROOF BUILDING ENVELOPE. REPORT TO ARCHITECT ANY CONDITION THAT WOULD PREVENT THIS IMMEDIATELY.
2. PROVIDE 4" GRANULAR FILL IN ACCORDANCE WITH THE GEC-TECHNICAL REPORT BELOW ALL CONCRETE SLAB-ON-GRADE AREAS. VAPOR BARRIER SHALL BE INSTALLED ON TOP OF GRANULAR FILL AND BELOW THE CONCRETE. IMMEDIATELY PRIOR TO POURING ANY CONCRETE SLAB ON GRADE, INSPECT THE VAPOR BARRIER FOR INTEGRITY AND MAKE ANY REPAIRS NECESSARY TO ACHIEVE A CONTINUOUS BARRIER.
3. INSTALL WATERPROOFING ON THE EARTH SIDE OF ALL EXTERIOR RETAINING WALLS.
4. INSTALL PIT WATERPROOFING ON THE EARTH SIDE OF ALL VERTICAL AND HORIZONTAL SURFACES OF ALL PITS AND TRENCHES INSIDE THE OUTERMOST BUILDING PERIMETER.

FIRE & SMOKE ASSEMBLIES NOTES

1. THE ANNULAR AREA OF ANY PENETRATION IN THE COMPOSITE DECK FLOOR FOR THE PASSAGE OF STEEL, FERROUS OR COPPER CONDUIT, PIPS, TUBES OR VENTS WITH A MAXIMUM NOMINAL DIAMETER OF SIX (6) INCHES SHALL BE FILLED WITH GROUT OR MORTAR FOR THE FULL THICKNESS OF THE FLOOR IN ACCORDANCE WITH IBC 712.4.1.1, EXCEPTION NO. 2.
2. INSTALL FIRE SAFING AT ALL GAPS BETWEEN FLOORS AND WALLS. INSTALL FIRE STOP SYSTEMS AND FIRE STOP SEALANT AT ALL PENETRATIONS OF RATED PARTITIONS, CEILINGS, FLOOR OR OTHER SURFACES IN ACCORDANCE WITH THE SPECIFICATIONS.
3. ANY PIPING, CONDUIT, OR WIRING PASSING THROUGH A WALL OR PARTITION CARRYING A FIRE RATING SHALL BE SEALED TIGHT TO THE WALL WITH A UL APPROVED METHOD. SEE ENGINEERED DRAWINGS.
4. ANY DUCTWORK SHOWN PASSING THROUGH A WALL OR PARTITION CARRYING A FIRE RATING SHALL BE EQUIPPED WITH AN APPROPRIATE FIRE RATED DAMPER AT THE POINT OF INTERSECTION WITH THE WALL. SEE MECHANICAL DRAWINGS FOR MORE INFO.
5. PROVIDE FIRE RETARDANT-TREATED WOOD BLOCKING IN GYPSUM WALL BOARD PARTITIONS BEHIND ALL DOOR WALL BUMPERS. ATTACH BLOCKING TO ADJACENT METAL STUDS.
6. ALL MISCELLANEOUS WOOD FRAMING AND BLOCKING IN EXTERIOR WALLS AND ROOFS SHALL BE FIRE RETARDANT TREATED.
7. PENETRATIONS, INTO OR THROUGH, OF EITHER VERTICAL OR HORIZONTAL FIRE RATED BARRIERS SHALL BE PROTECTED BY A SYSTEM LISTED BY A RECOGNIZED TESTING AGENCY BY USING A DETAIL AND LISTING NUMBER PER NFPA 101 LIFE SAFETY CODE 1997 EDITION CHAPTER 6-2.3.2.4 (OR LATEST EDITION).

GENERAL NOTES - STRUCTURAL

1. SEE STRUCTURAL AND SPECIFICATIONS FOR REQUIREMENTS FOR DESIGN OF COLD FORMED METAL FRAMING.
2. COORDINATE ALL MASONRY AND CMU REINFORCING REQUIREMENTS WITH STRUCTURAL DWGS/SPECS.
3. THE TERMS "SUPPORTED FROM STRUCTURE ABOVE", "SUSPENDED FROM STRUCTURAL ABOVE" AND ANY OTHER SIMILAR DESCRIPTIONS USED THROUGH THE CONTRACT DOCUMENTS SHALL DEFINE THE "STRUCTURE" TO MEAN ONLY THE BEAMS AND JOISTS DESIGNED AND APPROVED FOR THE PROJECT. NO ASPECTS OF WORK SHALL BE SECURED TO OR SUSPENDED FROM METAL ROOF DECK, JOIST BRIDGING OR OTHER SECONDARY MISCELLANEOUS STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL ATTACHMENT DEVICES, SUPPORTS, STRAPS, RODS, BRACING, ETC. NECESSARY FOR PROPER SUPPORT FROM THE STRUCTURE ABOVE.

GENERAL FLOOR PLAN NOTES

1. ALL EXTERIOR DIMENSIONS ARE TO FACE OF BRICK OR METAL PANEL UNLESS OTHERWISE NOTED.
2. ACCESS DOORS SHALL BE INSTALLED IN WALLS AT ALL EQUIPMENT, VALVE OR OTHER LOCATIONS REQUIRING ACCESS FOR MAINTENANCE WHICH ARE LOCATED BEHIND FINISHED SURFACES. SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS AND DIRECTIONS.
3. INSTALL GYPSUM WALLBOARD CONTROL JOINTS IN ACCORDANCE WITH ASTM C-840. (WHERE A PARTITION'S LENGTH RUNS IN AN UNINTERRUPTED STRAIGHT PLAN EXCEEDING 30 LINEAR FEET, CONTROL JOINTS SHALL BE INSTALLED 30'-0" ON CENTER MAXIMUM. INSTALL CONTROL JOINTS ALIGNED WITH DOOR JAMBS AND OR EDGE OF SOFFITS WHERE EVER POSSIBLE. ALL GWB CONTROL JOINT LOCATIONS FOR WALLS AND SOFFITS SHALL MARKED UP ON SHOP DRAWINGS AND SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
4. WHERE ADJACENT WALLS HAVE DISSIMILAR # OF LAYERS OF GWB, INSTALL FINAL LAYERS OF GWB FLUSH.

GENERAL ROOF NOTES

1. PROVIDE A MINIMUM THICKNESS OF INSULATION WITH AN R-VALUE EQUAL TO OR GREATER THAN TWENTY (20) AT ALL ROOF ASSEMBLIES.
2. ALL "FLAT" ROOFS SHALL SLOPE 1/4" PER FOOT MINIMUM UNO.
3. ALL SLOPED CRICKETS AT MECHANICAL EQUIPMENT SHALL SLOPE 1/2" PER FOOT MINIMUM.
4. ALL ROOF SLOPES NOTED ARE IN TAPERED INSULATION UNO.
5. ALL ROOF SLOPES NOTED ARE REQUIRED MINIMUMS. G.C. TO COORDINATE ROOF SLOPES.
6. ROOF DRAIN AND OVERFLOW DRAIN LOCATIONS ARE APPROXIMATE. G.C. TO COORDINATE LOCATIONS WITH STRUCTURAL AND MECHANICAL ELEMENTS.
7. NO OVERFLOW ROOF DRAIN SHALL FALL ON A RIDGE OR VALLEY.
8. G.C. TO COORDINATE LOCATION OF ROOF DRAINS AND OVERFLOW SCUPPERS SUCH THAT THE BOTTOM OF EACH SCUPPER IS NO GREATER THAN 4" ABOVE THE OUTLET OF THE ASSOCIATED ROOF DRAIN. G.C. TO COORDINATE HEIGHTS AND LOCATIONS OF SCUPPERS BETWEEN ALL RELEVANT TRADES.
9. ALL COPING AND LOW SLOPE ROOF EDGES SHALL CONFORM TO THE REQUIREMENTS OF IBC PARAGRAPH 1504.5 FOR WIND LOAD RESISTANCE AND TESTING PER ANSI/SPRI ES-1.

GENERAL RCP NOTES

1. ALL CEILINGS ARE 9' - 0" AFF UNO.
2. LAY CEILING GRIDS AS SHOWN ON REFLECTED CEILING PLANS. EACH ROOM GRID IS PLANNED FOR MAXIMUM TILE SIZE AND OPTIMUM LIGHTING LAYOUT.
3. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR LIGHTING AND HVAC INFORMATION.
4. NO DEVICES, DAMPERS, VALVES, PUMPS, ETC ARE TO BE LOCATED ABOVE SPACES WITH GWB CEILINGS. WHERE POSSIBLE, ACCESS TO JUNCTION BOXES FOR LIGHTS IS TO BE THROUGH FIXTURES. ALL DEVICES REQUIRING ACCESS ARE TO BE LOCATED IN ADJACENT SPACES WITH ACCESSIBLE CEILING SYSTEMS.
5. ACCESS DOORS SHALL BE INSTALLED IN GWB & EIFS CEILINGS AT ALL EQUIPMENT, VALVE OR OTHER LOCATIONS REQUIRING ACCESS FOR MAINTENANCE WHICH ARE LOCATED ABOVE FINISHED SURFACES. ACCESS PANEL LOCATIONS SHOWN ARE APPROXIMATES. G.C. IS RESPONSIBLE FOR COORDINATING EXACT LOCATIONS OF ACCESS PANELS WITH THE FINAL LOCATION OF HVAC EQUIPMENT. SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS AND DIRECTIONS.
6. REFER TO ELECTRICAL DRAWINGS FOR FULL EXTENT OF EXITING DEVICES, INCLUDING WALL MOUNTED DEVICES.
7. BRACE ALL SUSPENDED CEILINGS FOR SEISMIC RESISTANCE IN ACCORDANCE WITH CODE REQUIREMENTS AND AS DETAILED.
8. ALL CEILING CAVITY AREAS USED AS RETURN AIR PLENUMS SHALL BE CONSTRUCTED WITH FIRE RESISTANT MATERIALS AND SHALL ONLY CONTAIN MATERIALS WHICH HAVE SMOKE DEVELOPED RATINGS NOT GREATER THAN 50 AND FLAME SPREAD RATINGS NOT GREATER THAN 25 AS DETERMINED IN ACCORDANCE WITH ASTM 84.
9. DO NOT USE PVC PIPE IN RETURN AIR PLENUMS.
10. ALL EXTERIOR PUNCHED WINDOWS TO RECEIVE RECESSED MOUNTED SINGLE ROLLER SHADES UNO.
11. ALL LIGHT FIXTURES IN AREAS WITH NO CEILING SHALL BE SUSPENDED FROM STRUCTURE AND BRACED FOR SEISMIC RESTRAINT.
12. G.C. TO COORDINATE LOCATION OF HUMIDIFIERS WITH PLACEMENT OF EQUIPMENT, DUCTWORK, ELECTRICAL DEVICES AND CASEWORK.
13. AT ALL SOFFITS, PROVIDE RECESSED SPRINKLER HEADS.
14. ALL AREAS ABOVE CEILING SHALL BE FREE OF ACCUMULATIONS OF MUD, DUST, DIRT, CONSTRUCTION DEBRIS, ETC. CLEAN TOP SURFACES OF DUCTWORK, LIGHTS, PIPING, CONDUIT, AND OTHER CONSTRUCTION TO PROVIDE CLEAN SURFACE.
15. ANY AREA ABOVE CEILING EXPOSED TO VIEW FROM BELOW SHALL BE NO LESS THAN PRIME PAINTED.
16. AT GWB SOFFITS, INSTALL GYPSUM WALLBOARD CONTROL JOINTS IN ACCORDANCE WITH ASTM C-840. WHERE A CEILING'S LINEAR DIMENSION RUNS IN AN UNINTERRUPTED STRAIGHT PLAN EXCEEDING 30 LINEAR FEET, CONTROL JOINTS SHALL BE INSTALLED 32'-0" ON CENTER MAXIMUM. TOTAL AREA OF GWB CEILING BETWEEN CONTROLS JOINTS SHALL NOT EXCEED 900 S.F.. ALL SOFFITS CJ LOCATIONS SHALL MARKED UP ON SHOP DRAWINGS BY CONTRACTOR AND SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

DOORS & GLAZED OPENINGS NOTES

1. ALL INTERIOR DOOR FRAMES SHALL BE HOLLOW METAL WITH A 2" FACE JAMB DIMENSION AND 4" HEAD EXCEPT AS NOTED AT DOOR SCHEDULE.
2. SEE WINDOW AND DOOR DETAILS ON A7.01 FOR ADDITIONAL INFORMATION.
3. REFER TO WALL SECTIONS AND EXTERIOR ELEVATIONS FOR ADDITIONAL HEAD, JAMB AND SILL INFORMATION.
4. ALL FLOORING TRANSITIONS UNDER DOORS SHALL BE IN ACCORDANCE WITH TRANSITION DETAILS ON A9.32.
5. SEE A7.10 FOR EXTERIOR STOREFRONT AND CURTAINWALL ELEVATIONS.
6. THE FLOOR ON BOTH SIDES OF A DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR FOR A DISTANCE ON EACH SIDE AT LEAST EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR PANEL. FLOOR SURFACES SHALL COMPLY WITH ANSI 117.1-2017.
7. ALL PERIMETER JOINTS AT ALL EXTERIOR DOOR AND GLAZED OPENINGS SHALL BE 1/2" MINIMUM IN WIDTH AT JAMBS AND HEADS AND 1" MAXIMUM AT JAMBS AND HEADS. SEAL ALL JOINTS AS INDICATED AT DRAWINGS.
8. ALL DOORS WITH SELF-CLOSERS SHALL CONFORM TO ALL APPLICABLE CODES OR HAVE A MAXIMUM FORCE ALLOWABLE OF 5 LBF AND HAVE A MINIMUM SWEEP PERIOD OF 3 SECONDS FROM 70 DEGREES OPEN TO 3" LATCH FROM LATCH TO LEADING DOOR EDGE, WHICHEVER IS MORE STRICT SHALL APPLY. SELF CLOSING DEVICES SHALL MEET THE REQUIREMENTS OF ANSI 117.1-2017.
9. SWING AND FORCE TO OPEN DOORS SHALL MEET THE REQUIREMENTS OF ANSI 117.1-2017, CHAPTER 4.
10. DOORS/HARDWARE HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
11. CURTAINWALL AND STOREFRONT MANUFACTURER ARE TO BE SOLE SOURCED.
12. OPENING HEIGHTS AND WIDTHS NOTED ARE NOMINAL ROUGH OPENING WIDTHS. VERIFY IN FIELD ALL DIMENSIONS.
13. ALL DIMENSIONS AT CURTAINWALL AND STOREFRONT ELEVATIONS ARE TO TOP OF MULLION UNO.
14. PLUG ALL VERTICAL MULLIONS AT HEADERS.
15. CURTAINWALL/STOREFRONT MANUFACTURER TO PROVIDE HIGH-PERFORMANCE SUBSILL AND END DAMS.
16. G.C. TO PROVIDE TO GLAZING MANUFACTURER, PRODUCT DATA AND CUT SHEETS FOR ALL MATERIALS THAT COME INTO CONTACT WITH GLAZING.
17. AT ALL EXTERIOR HOLLOW METAL FRAMES, FILL FRAMES WITH THERMAL BATTS. R-19 MIN.
18. AT ALL HOLLOW METAL FRAMES AT MASONRY WALLS, GROUT FRAME SOLID.
19. AT ALL HOLLOW METAL FRAMES INSTALLED IN STUD WALLS THAT HAVE SOUND BATTS, FILL HOLLOW METAL FRAMES WITH SOUND BATTS.

GENERAL FINISH NOTES

1. PAINT ALL FERROUS METAL EXPOSED TO MOISTURE, EXCEPT PREFINISHED METAL.
2. PAINT ALL STEEL STAIR SURFACES EXPOSED TO VIEW OR MOISTURE.
3. PAINT ALL NEW EXTERIOR HOLLOW METAL FRAMES AND DOORS IN ACCORDANCE WITH THE PAINTING SPECIFICATIONS AND IN COLOR INDICATED.
4. AT ALL TRANSITIONS BETWEEN DIFFERENT FLOOR FINISH MATERIALS, INSTALL SILLS OR THRESHOLDS AND/OR TERMINATE MATERIALS AS INDICATED ON THE TYPICAL TERMINATIONS DETAIL LEGEND. SEE SHEET A9.32.
5. AT ALL MILLWORK BASE CABINETS, PROVIDE BASE AS SCHEDULE FOR ADJACENT WALLS UNO.
6. REMOVE CURING COMPOUNDS FROM ALL CONCRETE SLABS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS PRIOR TO THE INSTALLATION OF ANY FLOOR FINISH MATERIALS.
7. MOISTURE TEXT ALL NEW AND EXISTING CONCRETE SLABS ON GRADE PRIOR TO INSTALLATION OF ANY FLOOR FINISH MATERIALS. DO NOT INSTALL FINISHES UNLESS THE MOISTURE EMISSION RATE IS ACCEPTABLE TO THE FINISH MANUFACTURER AND MAINTAINS ALL WARRANTIES. PERFORM TESTS AS SPECIFIED. SCHEDULE SLAB POURS AND TESTS TO ALLOW PROPER CURING AND TESTING TIMES WITHOUT DELAYS TO THE OVERALL SCHEDULE.
8. ALL AREAS RECEIVING NEW FLOORING SHALL RECEIVE NEW BASE. SEE FINISH SCHEDULE AND LEGEND.

DOOR SCHEDULE ABBREVIATIONS

ALUM	ALUMINUM
CR	CARD READER
CR-X	CARD READER A, B, C ETC
CW	CURTAINWALL
DMS	DOOR MONITORING SWITCH
EL	ELECTRIC LATCH RETRACTION
EXST	EXISTING
EXT STF	EXTERIOR STOREFRONT
FF	FACTORY FINISH
HGT	HEIGHT
HM	HOLLOW METAL
IN	INCH
INT STF	INTERIOR STOREFRONT
MAX	MAXIMUM
MHO	MAGNETIC HOLD OPEN DEVICE
MIN	MINIMUM
ML	MAGNETIC LOCK
THK	THICK/THICKNESS
P1	ACTIVE LEAF DOOR PANEL
P2	INACTIVE LEAF DOOR PANEL
PDO	POWER DOOR OPERATOR
PNT	PAINT
PR	PAIR
PT	POWER TRANSFER PREP
REV	REVISION (SEE SUBMITTAL/REVISION SCHEDULE AT RIGHT SHEET MARGIN)
R.O.	ROUGH OPENING
RX	REQUEST TO EXIT SWITCH
SCW	SOLID CORE WOOD
SIM	SIMILAR
STN	STAINED
WD	WOOD

GENERAL NOTES - ACCESSIBILITY

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE PLACED ON THE DOOR(S) OF ALL ACCESSIBLE RESTROOM FACILITIES.
2. WHERE URINALS ARE TO BE PROVIDED, AT LEAST ONE STALL SHALL BE WALL HUNG WITH AN ELONGATED RIM AT MOUNTING HEIGHT AS DIRECTED BY ACCESSIBLE MOUNTING HEIGHT DETAILS ON A5.00. A CLEAR FLOOR SPACE OF 30" X 48" SHALL BE PROVIDED IN FRONT OF THE ACCESSIBLE URINAL.
3. ALL PLUMBING UNDER LAVATORIES SHALL BE INSULATED SUCH THAT NO HOT, SHARP OR ABRASIVE SURFACES CAN CAUSE INJURY. SEE PLUMBING DWGS FOR MORE INFO.
4. LEVER OR PUSH OPERATED DEVICES ARE REQUIRED ON ALL FAUCETS; SELF CLOSING DEVICES ARE PERMITTED PROVIDED THE FAUCET REMAINS OPERATING FOR AT LEAST TEN (10) SECONDS. SEE PLUMBING DWGS FOR MORE INFO.
5. DOORS TO THE ACCESSIBLE TOILET SHALL NOT SWING INTO THE CLEAR FLOOR SPACE REQUIRED BY ANY FIXTURE.
6. WHERE ONLY ONE DRINKING FOUNTAIN IS PROVIDED ON A FLOOR, THERE SHALL BE A DRINKING FOUNTAIN THAT IS ACCESSIBLE TO INDIVIDUALS WHO USE WHEELCHAIRS IN ACCORDANCE WITH THE ADA AND ONE ACCESSIBLE DRINKING FOUNTAIN THAT IS ACCESSIBLE TO THOSE WHO HAVE DIFFICULTY STOOPING OR BENDING. THIS SHALL BE ACCOMMODATED BY THE USE OF A "HI-LO" FOUNTAIN OR AN INVERTED "J" SPOUT WITH A PAPER CUP DISPENSER ANCHORED TO THE WALL. SEE PLUMBING DWGS FOR MORE INFO.

S&W

ARCHITECTURE ENGINEERING INTERIORS

STEVENS & WILKINSON
1501 MAIN STREET, SUITE 730
COLUMBIA, SC 29201
P 803.765.0320 F 803.254.6209
WWW.STEVENS-WILKINSON.COM

RED IRON ARCHITECTS

RED IRON ARCHITECTS
4591 DURANT AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405

BROWNSTONE

BROWNSTONE GROUP
4055 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

STATE OF SOUTH CAROLINA — STEVENS & WILKINSON OF SOUTH CAROLINA, INC. COLUMBIA — REGISTERED ARCHITECTS

CORPORATE SEAL

STATE OF SOUTH CAROLINA — LINDA R. BAYLAN — REGISTERED ARCHITECT

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19085.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT > excellence is our standard

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

GENERAL NOTES

G1.02

BIM 360://Haut Gap Middle School/Haut Gap ARCH_V19.rvt

7/30/2020 1:04:34 PM

BUILDING CODE ANALYSIS FORM

FORM F3

PROJECT HAUT GAP MIDDLE SCHOOL CLASSROOM ADDITION
DISTRICT CHARLESTON COUNTY SCHOOLS
SUBMITTAL
☐ SCHEMATIC ☐ DESIGN DEVELOPMENT ■ CONSTRUCTION DOCUMENT
DATE 07/14/2020 GUIDE EDITION 2020 CODE & EDITION 2018 IBC

BASIC BUILDING CODE INFORMATION

DESIGNATED AREAS OF BUILDING	AREA A
CONSTRUCTION CLASSIFICATION TYPE (IBC 602)	IIB
OCCUPANCY GROUP (indicate all) (IBC 302) (Note IBC 508.2.2, 508.2.4)	E B - Accessory Occupancy
OCCUPANCY GROUP (most restrictive) (IBC Table 504.3, 504.4, 506.2)	E
Incidental Use Area Separation? (IBC 509.4) In Group E Occupancies, laboratories and Vocational Shops not classified as Group H (IBC Table 509) Automatic Sprinkler System Provided, No Fire Rated Separation required	no☐ yes ☐
Accessory Occupancy Business What percent of story is the sum of all accessory occupancies? (IBC 508.2) 398 SF Business Occupancy / 14,204 New Building Area = 2.8% < 10%	no☐ yes ■ 398 SF 2.8%
Mixed Occupancy - Separated? (IBC 508.4, 508.2.2, 508.2.4)	no☐ yes ☐
Mixed Occupancy - Non separated? (IBC 508.3)	no☐ yes ☐
OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES	

BUILDING AREA

DESIGNATED AREAS OF BUILDING	AREA A
ALLOWABLE AREA DETERMINATION (indicate equation used) ■ IBC 506.2.1 Equation 5-1 $A_a = A_t + (NS \times If)$ ☐ IBC 506.2.1 Equation 5-2 $A_a = [A_t + (NS \times If)] \times Sa$ ☐ IBC 506.2.1 Equation 5-3 $A_a = [A_t + (NS \times If)]$	
A_a = Allowable area per story (square feet)	A_a = 58,000
A_t = Tabular allowable area factor (NS, S1, or S13Reduse as applicable) in accordance with Table 506.2 NS = Tabular allowable area factor in accordance with Table 506.2 for a nonsprinklered building (regardless of whether the building is sprinklered) If = Area factor increase factor due to frontage (percent) as calculated in accordance with Section 506.3 Sa = Actual number of building stories above grade plane,not to exceed three (3). For buildings equipped throughout with automatic sprinkler system installed in accordance with Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four (4) FRONTAGE INCREASE, If IBC 506.3.3, Equation 5-5 $If = [F/P - 0.25] W/30$ If = Area factor increase factor due to frontage F = Building Perimeter that fronts on a public way or open space having minimum distance of 20 feet. P = Perimeter of entire building (feet) W = Width of public way or open space in accordance IBC 506.3.2, Equation 5-4 $W = [(L_1 \times w_1) + (L_2 \times w_2) + (L_3 \times w_3) \ldots) / F$ L_n = Length of a portion of the exterior perimeter wall w_n = Width (>= 20 feet) of public way or open space associated with that portion of the exterior perimeter wall F = Building perimeter that fronts on a public way or openspace having a width of 20 feet or more	A_t = 58,000 NS = 14,500 not used Sa =1
ALLOWABLE AREA PER STORY	58,000
AREA AS DESIGNED - BUILDING B NEW	14,288 SF
EXISTING CONSTRUCTION BUILDING A IS SEPARATED FROM NEW CONSTRUCTION WITH A NEW 2HR FIREWALL AND IS CONSIDERED A SEPARATE BUILDING EXISTING	49,450 SF

ALLOWABLE BUILDING HEIGHT & NUMBER OF STORIES ABOVE GRADE PLANE

DESIGNATED AREAS OF BUILDING		BUILDING B	
HEIGHT		DESIGNED	ALLOWED
IBC Table 504.3	In Feet	29	75
IBC Table 504.4	In Stories	1	3

BUILDING DESIGN OCCUPANT LOAD

DESIGNATED AREAS OF BUILDING	BUILDING B
EDUCATIONAL	393
ASSEMBLY	36
BUSINESS	5
TOTAL	434

GENERAL FIRE PROTECTION REQUIREMENTS

DESIGNATED AREAS OF BUILDING	FIRE AREA 1	
SEPARATIONS		
Fireblocking Required (IBC Section 718.2)	no■ yes☐	
Draftstopping Required (IBC Sections 718.3, 718.4)	no■ yes☐	
Fire Wall Required (IBC Section 706)	no☐ yes■	2 Hour
Fire Barrier Required (IBC Section 707)	no☐ yes■	Storage Rooms over 100 sf -1 Hour
Fire Partition Required (IBC Section 708)	no■ yes☐	
Smoke Barriers Required (IBC Section 709)	no■ yes☐	
Smoke Partitions Required (IBC Section 710)	no■ yes☐	
Smoke Control System Required (IBC Section 909)	no■ yes☐	
ALARM & DETECTION		
Fire Alarm System Required (IFC Section 907.5.2.2)	no☐ yes■ (Upgrade to Existing)	
Fire Alarm System Required (IFC 907.5.2.1)	no■ yes☐	
SUPPRESSION		
Standpipes Required (IFC Section 905)	no■ yes☐	
Sprinkler Required (IFC Section 903)	no☐ yes■	
Sprinklers Provided?	no☐ yes■	
Portable Extinguishers Required (IFC 906)	no☐ yes■	
Other suppression systems required (IFC 904)	no■ yes☐	
Smoke Control Required (IFC 909)	no■ yes☐	
Smoke & Heat Removal required (IFC 910)	no■ yes☐	

OTHER FIRE AND LIFE SAFETY FEATURES

DESIGNATED AREAS OF BUILDING	AREA A
Area of Refuge with Instruction provided (IBC 1009.6, 1009.11)	no■ yes☐
Separation Required	no■ yes☐
Exterior Area for Assisted Rescue with Instruction provided (IBC 1009.6, 1009.11)	no■ yes☐
OTHER	

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		AREA A
Structural Frame (IBC Table 601)	as Designed, Hrs	0
	As Designed, Hrs	0
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Bearing Walls, Exterior (IBC Table 601)	as Required, Hrs	0
	As Designed, Hrs	0
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Bearing Walls, Interior (IBC Table 601)	as Required, Hrs	0
	As Designed, Hrs	0
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Nonbearing Walls & Partitions, Exterior (IBC Table 601 & 602)	as Required, Hrs	0
	As Designed, Hrs	0
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Nonbearing Walls & Partitions, Interior (IBC Table 601 & 602)	as Required, Hrs	0
	As Designed, Hrs	0
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Floor Construction including supporting beams & joists (IBC Table 601)	as Required, Hrs	0
	As Designed, Hrs	0
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Roof Construction including supporting beams & joists (IBC Table 601 & 602)	as Required, Hrs	0
	As Designed, Hrs	0
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Fire Walls (IBC Section 706)	as Required, Hrs	2 HR
	As Designed, Hrs	2 HR
	Testing Agency Design # (UL, FM, etc)	U 906
	Wall/Partition Key Code	
Fire Barriers (IBC Section 707)	as Required, Hrs	NA
	As Designed, Hrs	
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Shaft Enclosures (IBC Section 708)	as Required, Hrs	NA
	As Designed, Hrs	
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Fire Partitions (IBC Section 708)	as Required, Hrs	NA
	As Designed, Hrs	
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Smoke Barriers (IBC Section 709)	as Required, Hrs	NA
	As Designed, Hrs	
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Smoke Partitions (IBC Section 710)	as Required, Hrs	NA
	As Designed, Hrs	
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Horizontal Assemblies (IBC Section 711)	as Required, Hrs	NA
	As Designed, Hrs	
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Opening & Protective Lining by Category (fire shutters, doors, etc.) (IBC Section 715)	as Required, Hrs	NA
	As Designed, Hrs	
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	
Others (as required by Designer)	as Required, Hrs	NA
	As Designed, Hrs	
	Testing Agency Design # (UL, FM, etc)	
	Wall/Partition Key Code	

FLOOD HAZARD INFORMATION and FLOOD LOADS

FLOOD HAZARD AREA	
Base Flood Elevation (NGVD or FIRM)	N/A MSL
Design Flood Elevation IBC 1612.3 and ASCE 24	N/A MSL
NON HIGH-VELOCITY WAVE ACTION	
Elevation of lowest Proposed Floor (Meet ASCE 24 Section 2.6.2.1)	
Dry Floodproofing ASCE 24	no■ yes☐
HIGH-VELOCITY WAVE ACTION	
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor	264.0 MSL
Flotation resistance (ASCE 24)	no■ yes☐
Breakaway wall per ASCE 24	no■ yes☐

STRUCTURAL DESIGN INFORMATION, AREA

OCCUPANCY CATEGORY (IBC Table 1604.5)		classroom	corridor	offices	assembly
LIVE LOAD FOR EACH OCCUPANCY TYPE (IBC Figure 1608.2 or ASCE 7)	Floor Live Load, Fll	40 PSF	100 PSF	50 PSF	100 PSF
	Roof Live Load, Rll	20 PSF	20 PSF	20 PSF	20 PSF
	Ground Snow Load, Pg	10 PSF	10 PSF	10 PSF	10 PSF
MISCELLANEOUS LOADS BY SPECIAL USE AREA (ARCHITECTURAL, MECHANICAL, DATACENTER, ETC., ASCE 7)		PSF	PSF	PSF	PSF

STRUCTURAL DESIGN INFORMATION, BUILDING

WIND LOADS	Analysis Procedure (ASCE 7 or IBC 1609.6)	ASCE 7
	Basic Wind Speed, MPS (3 sec gust IBC Fig1609.3)	V3s = 157
	Exposure Category	C
	Wind Importance Factor (ASCE 7 Table 6.1)	Iw = 1.0
	Internal Pressure Coefficient (ASCE 7)	GCpi = ± .18
	External Pressure Coefficient (ASCE 7)	GCp = -0.8,+0.7
SEISMIC LOADS	Seismic Importance Factor (ASCE 7)	I = 1.25
	Soil Class (IBC 1613.3.2)	D
	Mapped Spectral Response Accelerations	Ss = 1.192g S1 = .383g
	Design Spectral Response Acceleration	Sds = .813g
	Parameters	Sdl = .411g
	Seismic Use Group ASCE 7 and Seismic Occupancy Category (IBC)	III
	Seismic Design Category (IBC Tables1613.3.5(1),1613.3.5(2))	D
	Basic Seismic Force Resisting System	SRMSW
	Design Base Shear	0.203 x W = V
	Seismic Response Coefficient(s) ASCE 7	Cs = 0.203
	Response Modification Factor(s) ASCE 7	R = 5
	Analysis Procedure	ELFP

STATEMENT OF SPECIAL INSPECTIONS

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY
STEEL - See Structural Drawings				
CONCRETE - See Structural Drawings				
MASONRY - See Structural Drawings				
SOIL - See Structural Drawings				
WIND RESISTANCE - See Structural Drawings for Structural Components				
Roof Covering	Fastening	Periodic	IBC 1705.11.3	3rd Party Inspector
Exterior Wall Covering	Fastening	Periodic	IBC 1705.11.3	3rd Party Inspector
SEISMIC RESISTANCE - See Structural Drawings for Structural Components, Electrical Drawings for Electrical Components and Mechanical Drawings for Mechanical Components				
Fire Protection System	Seismic Restraint Systems Compliance with NFPA 13 & ASCE 7-10	Periodic	IBC 1705.12.4	3rd Party Inspector
Architectural Components	Erection and Fastening of Exterior Cladding > 30' Above Grade (SDC D, E or F)	Periodic	IBC 1705.12.5	3rd Party Inspector
Architectural Components	Interior and Exterior Non Bearing Walls > 30' Above Grade (SDC D, E or F)	Periodic	IBC 1705.12.5	3rd Party Inspector
Architectural Components	Interior and Exterior Veneer > 30' Above Grade (SDC D, E or F)	Periodic	IBC 1705.12.5	N/A on this project
Nonstructural Components	Components, Supports or Attachments	IBC 1705.13.2	IBC 1705.13.2	3rd Party Inspector
Designated Seismic Systems	Label, Anchorage, Mounting for Certificate of Compliance	Periodic	IBC 1705.12.4, ASCE 7 13.2.2	3rd Party Inspector
SPRAYED FIRE RESISTANT MATERIAL				
Floor, Roof and Wall Assemblies / Structural Members	Physical and Visual tests for Compliance and Rating	IBC 1705.14.1	IBC 1705.14.1	N/A on this project
Structural Member Surface Condition	Prepared Surface Condition	IBC 1705.14.2	IBC 1705.14.2	N/A on this project
Substrate	Application Conditions	IBC 1705.14.3	IBC 1705.14.3	N/A on this project
Thickness	Minimum Thickness	IBC 1705.14.4	IBC 1705.14.4	N/A on this project
Density	Minimum Density	IBC 1705.14.5	IBC 1705.14.5	N/A on this project
Bond Strength	Cohesion / Adhesion Strength	IBC 1705.14.6	IBC 1705.14.6	N/A on this project
FIRE RESISTANT COATINGS				
Mastic and Intumescent Coatings applied to Structural Elements and Decks	Compliance with Fire Resistance Design	IBC 1705.15	IBC 1705.15, AWCI 12-B	N/A on this project
EXTERIOR INSULATION AND FINISH SYSTEMS				
When installed over a Water Resistive Barrier with a means of Draining Moisture to Exterior	Continuity of Water Resistive Barrier Prior to Installation Of EIFS Finish	IBC 1705.16	IBC 1705.16	N/A on this project
Water Resistive Barrier Coating Complying with ASTM E2570 Installed over a Sheathing Substrate	Coating Continuity and Compliance	Continuous	IBC 1705.16	N/A on this project
FIRE RESISTANT PENETRATIONS & JOINTS				
Penetration Firestops	Verify Appropriate System Specified and Installed	Periodic	IBC 1705.17.1, ASTM E2174	3rd Party Inspector
Fire Resistant Joint Systems	Verify Appropriate System Specified and Installed	Periodic	IBC 1705.17.2, ASTM E2393	3rd Party Inspector

TABLE 5-14 DESIGN-RELATED CONSTRUCTION PERMITS/APPROVALS

Type of Development	SC Law or Reg.	Approving Agency	Status
Building construction, Zoning	6-7-10,6-9-110	Office of School Facilities	SD Submittal to be uploaded to OSF Website upon approval by CCSD of SD Documents
Fire Department (Local)	Various local & State	City of Charleston Fire Department	To Be Submitted to City TRC
Fire, Building Automatic Sprinkler system and underground supply	40-10-260, R71-8300.4	State Fire Marshall	Design build tie-in to existing system, to be submitted by contractor
Food service establishments including concessions	R61-25	SCDHEC – State and local office	NA
Road Encroachment, state road	57-5-1080	SCDOT Traffic Engineering Office	NA
Sanitary sewer; treatment & disposal	R61-56, 57		NA - Existing System; to be sumitted to CWS if required
Storm water discharge, erosion and sediment control	R61-9; R72-100-108	City of Charleston	To Be Submitted to City TRC for MS-4 Approval
Water supply, potable	44-55-40, R61-57, 58	St. Johns Water Co.	To Be Submitted to St. Johns Water Co.
Water supply, fire protection system	40-10-260, R71-8300.4	State Fire Marshall	Design build tie-in to existing system, to be submitted by contractor
Zoning (Municipal, County or District)		City of Charleston	To Be Submitted to City TRC
Engineering		City of Charleston	To Be Submitted to City TRC
Traffic		City of Charleston	To Be Submitted to City TRC
ADA		City of Charleston	To Be Submitted to City TRC
Coastal Zone Certification		DHEC / OCRM	To Be Submitted to DHEC/OCRM
NPDES		DHEC / OCRM	To Be Submitted to DHEC/OCRM

ENERGY INFORMATION

SEE COMCHECK COMPLIANCE REPORTS PROJECT MANUAL APPENDIX B

MECHANICAL INFORMATION

GENERAL INFORMATION

Building Location	Johns Island, SC		
Climate Zone	3A		
Outdoor Design Temperature	Summer	94 deg F DB	
		78 deg F WB	
	Winter	25 deg F DB	
		N/A deg F WB	
Indoor Design Temperature	Summer	24 deg F DB	
		50 % RH	
	Winter	20 deg F DB	
		N/A %RH	
OUTSIDE AIR			
Occupied Minimum Outside Air		15 cfm pp	
CO2 Demand Management		no☐ yes■	
Supervised Control System		no☐ yes■	

MECH SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

Briefly describe mechanical system:
PACKAGED ROOFTOP HEAT PUMPS WITH PACKAGED VENTILATION AIR UNITS WITH ENERGY RECOVERY AND GAS HEAT

Summary of data from approved ASHRAE 90.1 compliance sheets.

ELECTRICAL INFORMATION

SERVICE	■ By Utility ☐ By District	Existing: KVA Primary
TRANSFORMER		480/3 Voltage/Phase
ELECTRICAL SERVICE INFORMATION		
Service Voltage/Phase	480/3	Amperes
Service Entrance Conductors Size	(6)500 MCM	Qty per Phase
Total Connected Load	2273	KVA
Estimated Maximum Demand	1387	KVA
Available Fault Current in Symmetrical Amperes	Existing	
Interrupting Capacity of Service Overcurrent Device	42,000	
GROUNDING ELECTRODE SYSTEM		
COMPONENTS (NEF 250)	main cold water pipe, building steel, footing rebar, and at least three 3/4" diameter x 10' long ground rods driven 10' apart outside building in unpaved earth. 5 ohms Max	

EMERGENCY SERVICE INFORMATION

Emergency Generator	no■ yes☐	N/A KVA N/A Voltage/Phase
	Fuel	Diesel
Exit/Emergency Lights Backup Power		■ Integral Battery ☐ Generator
Fire Alarm System	☐ Manual ■ Automatic	■ Addressable ☐ Class A ☐ Class B
LIGHTNING PROTECTION PROVIDED	no■ yes☐	

SOILS & SITE

SOILS INVESTIGATION REQUIRED? (IBC 1803.2) no☐ yes■

SOILS CLASSIFICATION

Seismic Site Class (IBC 1613.3.2) Classes Soil of Materials (UCS Systems) (IBC 1803.5.1)	See GeoTech Report See GeoTech Report
Allowable Footing Bearing Pressure	2,000 psf
MINIMUM DESIGN SOIL BEARING LOAD (IBC Table 1806.2)	2,000 psf
COMPACTION	
Subgrade (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	100%
Base (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	95%
Other (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	95%
MINIMUM DESIGN SOIL LATERAL LOAD (IBC Table 1610.1)	See GeoTech Report
FOOTINGS	
Undisturbed footings	no☐ yes■
Compacted Fill Material (IBC 1804.6)	no☐ yes■
ELEVATIONS	
Elevation of Water Table	4' below existing grade
Elevation of lowest footing	TBD
Elevation of lowest floor or basement	TBD

FIRE SERVICE INFORMATION

Service Line Size		6"
Fire Department Connection	Location	REMOTE
Backflow	Location	RISER ROOM
	Type	DOUBLE CHECK
Fire Hydrant Flow Test	Date	3/3/2020
	Flow	920 GPM
	Residual	52 PSI
	Static	70 PSI

PLUMBING INFORMATION

WATER SYSTEM

Service Line Size	2 1/2"
Distribution Design Criteria (IPC Table 604.3)	112.5 Fixture Units
Maximum Flow Rate (IPC Table 604.4)	76.36 GPM
Backflow Location	MECHANICAL ROOM
Backflow Type	RED PRESS
Test Pressure	4.33 psi

SANITARY SEWER SYSTEM

Service Line Size	4"
Drainage Design Criteria (IPC Tables 709.1 and 709.2)	84.5 Fixture Units
Maximum Flow Rate	66.51 GPD
Slope (IPC Table 704.1)	12" Inches/Ft
Applicable area(s)	Educational, A-3, Business
Most restrictive area	Educational
Fixture counts required	See Fixture Calculations Below

CODE REQUIRED BUILDING FIXTURE COUNTS

Total Building Occupant Load-New Addition Only 434

Building Occupant Loads by Occupancy Type
Educational 393 - 196 Male / 197 Female
Assembly A-3 36 - 18 Male / 18 Female
Business 5 - 3 Male / 3 Female

Water Closets		Male - Required	4.184 Total = 5
A-3 M ____ 144sf/ 1 per 125 F ____ 2760 sf / per 65 E M/F ____ 3.92 sf/ 1per 50 req M/F ____ 12 sf/1 per 25		Male WC - Provided	2 Total
		Male Urinal - Provided	3 Total
		Female - Required	4.31 Total = 5
		Female - Provided	5 Total
Lavatories		Male - Required	4.085 Total = 5
A-3 M/F ____ 88 sf/1 per 200 E M/F ____ 3.92 sf/ 1 per 50 M/F ____ 075 sf/1 per 40		Male - Provided	5 Total
		Female - Required	4.085 Total = 5
		Female - Provided	5 Total
Showers		Male - Required	None
		Male - Provided	None
		Female - Required	None
		Female - Provided	None
Drinking Fountains A 491 per 500 E and B 49 1 per 100		Required	4.36
		Provided	5
Family or Assisted Use Toilet		Required	1 (Included in Total)
		Provided	2 (Included in Total)
Service Sink		Required	1
		Provided	1
Others (List)		Required	None
		Provided	None

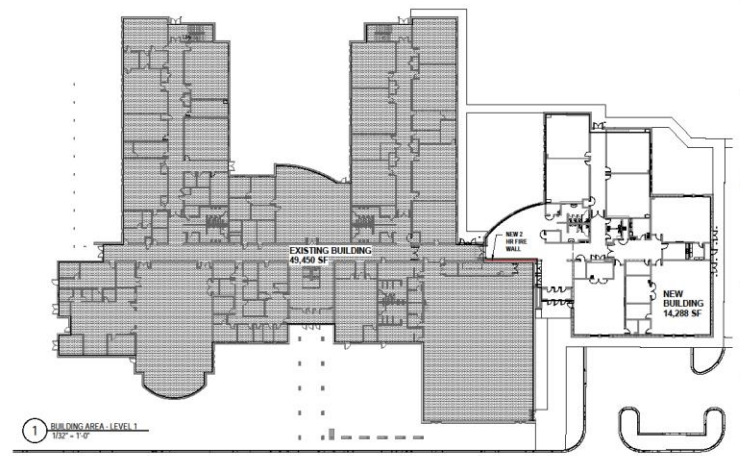
PROJECT DESIGNED IN ACCORDANCE WITH:

International Building Code ..... 2018 Edition
International Existing Building Code ..... 2018 Edition
International Fire Code ..... 2018 Edition
International Energy Conservation Code ..... 2018 Edition
International Fuel Gas Code ..... 2018 Edition
International Mechanical Code ..... 2018 Edition
International Plumbing Code ..... 2018 Edition
- Insert "24" in Section 305.4.1
- Insert "5" in Section 903.1

International Private Sewage Disposal Code ..... 2018 Edition
International Property Maintenance Code ..... 2018 Edition
National Electrical Code, NFPA 70 ..... 2014 Edition
National Electrical Safety Code, ANSI-C2 ..... ANSI-C2 2012 Edition
National Electrical Code, NFPA 70 ..... 2014 Edition
ASCE 7 ..... 2016 Edition
ASHRAE 62 ..... as referenced by ICC
ASHRAE 90.1 ..... as referenced by ICC CODES
American National Standards Institute ..... Latest Edition
State Fire Marshal rules, regulations, and policies ..... Latest Edition
South Carolina Elevator, Code, & Regulations 1 ..... Latest Edition
ASME A17.1 ..... Latest Edition
International Code Council Performance Code (IPCCPC) ..... 2018 Edition
Governor's Executive Order No. 83-19 - State of SC Building ..... April 1982
Standards in Floodplain Areas and compliance with the criteria in Title 44, Code of Federal Regulations, Parts 60.3 & 60.5
Section 113 School Bus Safety Requirements ..... Latest Edition
Section 113 for reference to OSHA standards ..... Latest Edition
Section 113 for reference to DOT standards ..... Latest Edition

BUILDING STANDARDS:

NFPA 10: Standard for Portable Fire Extinguishers ..... 2013 Edition
NFPA 13: Standard for Installation of Sprinkler Systems ..... 2013 Edition
NFPA 72: National Fire Alarm and Signaling Code ..... 2013 Edition
NFPA 99: Health Care Facilities Code ..... 2018 Edition



1 BUILDING AREA - LEVEL 1
1/32" = 1'-0"

S&W
ARCHITECTURE ENGINEERING INTERIORS
STEVENS & WILKINSON
1501 MAIN STREET, SUITE 730
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BROWNSTONE
BROWNSTONE GROUP
4265 FABER PLACE DRIVE, SUITE 202
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STEVENS & WILKINSON OF SOUTH CAROLINA INC. COLUMBIA SC 2019 REGISTERED ARCHITECT
CORPORATE SEAL

STATE OF SOUTH CAROLINA LINDA R. SHAFFER 25821 REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
☐ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

FORM F-3 BUILDING CODE SUMMARY

G2.00

B:\M 360 /Haut Gap Middle School/Revit Gap ARCH_V19.rvt
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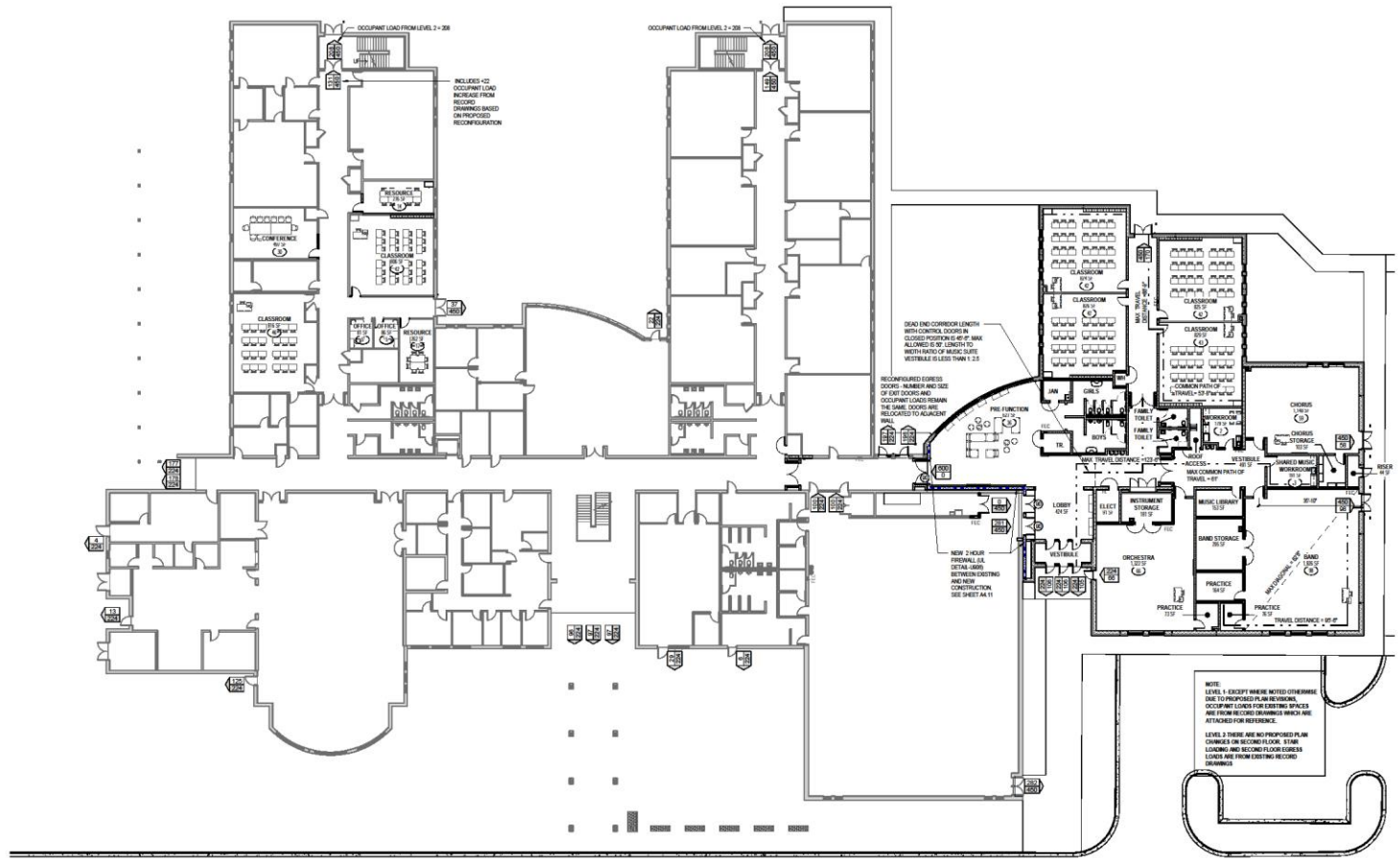

1 LEVEL 1 LIFE SAFETY PLAN
1/16" = 1'-0"

Design No. U906
April 07, 2009
Bearing Wall Rating - 2 HR,
Nonbearing Wall Rating - 2 HR,
Load Restricted for Canadian Applications - See Guide BRMV7

1. Concrete Blocks* - Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr).
See Concrete Blocks category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC
GAGNE & SON CONCRETE BLOCK INC

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG NE DBA ARTHUR WHITCOMB
WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.0% of max allowable compressive stress in accordance with the empirical design method.

2. Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster - Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. Foamed Plastic* - (Optima-Not Shown) - 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

THE DOW CHEMICAL CO - Type Thermax

*Bearing the UL Classification Mark

SINCE THE BUILDING CODE REFERENCES, AND REQUIRES, UL TESTED SYSTEMS, UL PROVIDED DETAILS HAVE BEEN INCLUDED IN THE DOCUMENTS. THE UL REFERENCE MATERIAL INCLUDES THE FOLLOWING QUALIFICATIONS:

UL cannot and does not warrant that this information is current, accurate, or complete. This database contains the names of companies who have qualified to use the UL mark and those products for which samples have been evaluated by UL and obligated to label all of his production. Accordingly, the appearance of a company's name or product in this database does not in itself assure those products are covered under UL's Listing and Follow-Up Service. Only the products bearing the appropriate UL Mark should be considered covered under UL's Listing and Follow-Up Service. Any reproduction or re-transmission of this information is prohibited unless reproduced or re-transmitted in it's entirety, including this Notice of Disclaimer.

BUILDING OCCUPANT LOADS - NEW

Area No.	Name	Room Occupancy	Area	S.F. Per Person	Persons	Room Style	Department
Assembly Unconcentrated (tables & chairs)							
1304	PRE-FUNCTION	Assembly Unconcentrated (tables & chairs)	827 SF	15	42	(none)	New
			827 SF		42		
Business Areas							
1217	WORKROOM	Business Areas	176 SF	100	2	(none)	New
1220	SHARED MUSIC WORKROOM	Business Areas	191 SF	100	2	(none)	New
			370 SF		5		
Educational Classroom area							
1209	CLASSROOM	Educational Classroom area	926 SF	20	42	(none)	New
1210	CLASSROOM	Educational Classroom area	924 SF	20	42	(none)	New
1212	CLASSROOM	Educational Classroom area	925 SF	20	42	(none)	New
1213	CLASSROOM	Educational Classroom area	929 SF	20	42	(none)	New
1219	CHORUS	Educational Classroom area	1148 SF	20	58	(none)	New
1222	BAND	Educational Classroom area	1926 SF	20	97	(none)	New
1228	ORCHESTRA	Educational Classroom area	1322 SF	20	67	(none)	New
			7200 SF		388		
Non-Concurrent Use							
1223	PRACTICE	Non-Concurrent Use	76 SF	0	0	(none)	New
1224	PRACTICE	Non-Concurrent Use	194 SF	0	0	(none)	New
1227	PRACTICE	Non-Concurrent Use	73 SF	0	0	(none)	New

BUILDING OCCUPANT LOADS - NEW

Area No.	Name	Room Occupancy	Area	S.F. Per Person	Persons	Room Style	Department
			313 SF		0		
Unoccupied Accessory Area							
1203	VESTIBULE	Unoccupied Accessory Area	140 SF	0	0	(none)	New
1202	LOBBY	Unoccupied Accessory Area	424 SF	0	0	(none)	New
1202	CORRIDOR	Unoccupied Accessory Area	782 SF	0	0	(none)	New
1205	TEL	Unoccupied Accessory Area	68 SF	0	0	(none)	New
1206	GIRLS	Unoccupied Accessory Area	222 SF	0	0	(none)	New
1207	BOYS	Unoccupied Accessory Area	217 SF	0	0	(none)	New
1208	JAN	Unoccupied Accessory Area	68 SF	0	0	(none)	New
1211	CORRIDOR	Unoccupied Accessory Area	542 SF	0	0	(none)	New
1214	FAMILY TOILET	Unoccupied Accessory Area	67 SF	0	0	(none)	New
1215	FAMILY TOILET	Unoccupied Accessory Area	73 SF	0	0	(none)	New
1216	ROOF ACCESS	Unoccupied Accessory Area	55 SF	0	0	(none)	New
1218	VESTIBULE	Unoccupied Accessory Area	697 SF	0	0	(none)	New
1221	CHORUS STORAGE	Unoccupied Accessory Area	103 SF	0	0	(none)	New
1225	BAND STORAGE	Unoccupied Accessory Area	256 SF	0	0	(none)	New
1226	MUSIC LIBRARY	Unoccupied Accessory Area	153 SF	0	0	(none)	New
1229	INSTRUMENT STORAGE	Unoccupied Accessory Area	181 SF	0	0	(none)	New
1230	ELECT	Unoccupied Accessory Area	91 SF	0	0	(none)	New
1231	MH	Unoccupied Accessory Area	19 SF	0	0	(none)	New
2202	CORRIDOR	Unoccupied Accessory Area	508 SF	0	0	(none)	New
			4480 SF		0		
Grand total			11489 SF		435		

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STATE OF SOUTH CAROLINA
STEVENS & WILKINSON OF SOUTH CAROLINA INC.
COLUMBIA
REGISTERED ARCHITECTURAL CORPORATION
CORPORATE SEAL

STATE OF SOUTH CAROLINA
LINDA K. DURHAM
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

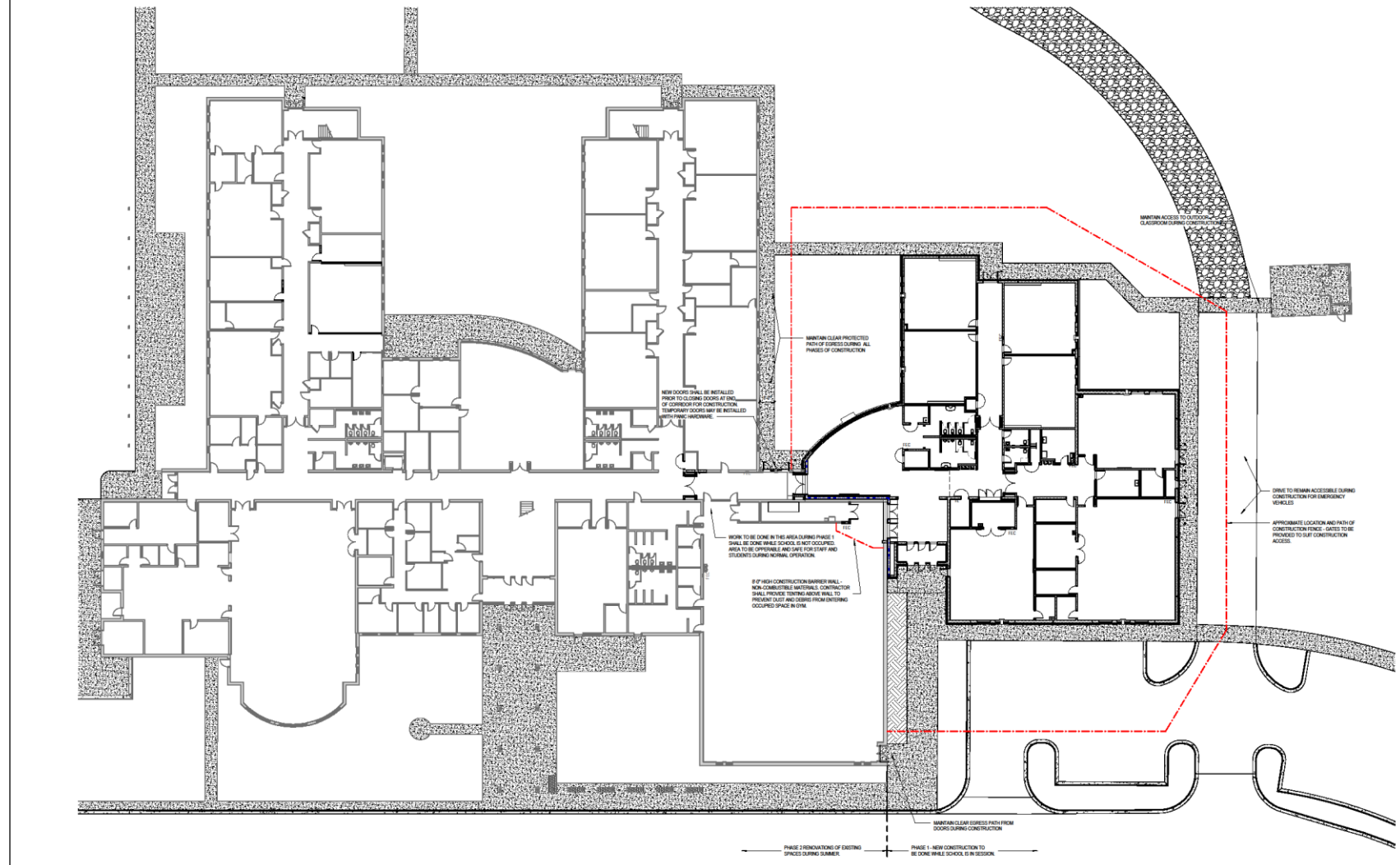
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 LIFE SAFETY PLAN

G3.01



1 CONSTRUCTION PHASING AND SAFETY PLAN
1/16" = 1'-0"

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7/30/2020 1:06:06 PM

S&W
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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19055.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

CONSTRUCTION PHASING AND SAFETY PLAN

G3.02

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

FOR

CHARLESTON COUNTY SCHOOL DISTRICT

1861 BOHICKET ROAD
JOHNS ISLAND, SC 29455
TMS# 279-00-00-160

CITY PROJECT ID# TRC-SP2020-000327

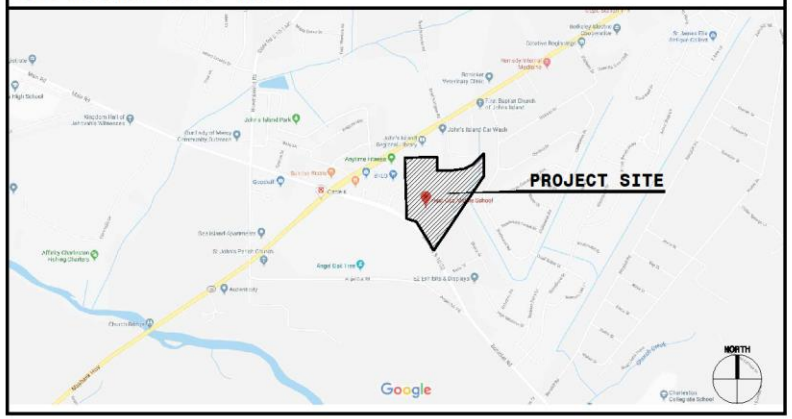
LEGEND

EXISTING		PROPOSED	
54p	EXISTING CONTOUR		BOUNDARY LINE / ROAD R/W
	PROPERTY LINE		ROAD / DRIVEWAY CENTERLINE
R/W	RIGHT-OF-WAY LINE	SS	SANITARY SEWER
F.O.C. MKR.	FIBER OPTIC MARKER	SD	STORM DRAIN
SD	STORM DRAIN	W	WATER MAIN
T	UNDERGROUND TELEPHONE	OHP	OVERHEAD POWER LINE
E	UNDERGROUND POWER	UGP	UNDERGROUND PRIMARY POWER
		UGS	UNDERGROUND SECONDARY POWER
W	WATERLINE	UGT	UNDERGROUND TELEPHONE
S	SEWER LINE	SF	SILT FENCE
G	GAS LINE	FH	FIRE HYDRANT
	STORM SEWER MANHOLE	FDC	FIRE DEPARTMENT CONNECTION
	WIRE FENCE	PP	POWER POLE
MH	SANITARY SEWER MANHOLE		WATER METER
T.B.M.	TEMPORARY BENCH MARK		GAS/WATER VALVE
		CO	CLEAN OUT
	STOP SIGN/TURN SIGN		INLET (TYPE AS NOTED)
O.H.P.	OVERHEAD POWER		SANITARY SEWER MANHOLE
P.P.	UTILITY POLE		STORM DRAIN MANHOLE
S.P.	TRAFFIC SIGNAL POLE		SITE LIGHT POLE AND FIXTURE
	TRAFFIC SIGNAL BOX	9.80 FG	FINISHED GRADE ELEVATION
L.P.	LIGHT POLE	9.80 TW	TOP OF WALK ELEVATION
WV	WATER VALVE	9.80 TC	TOP OF CURB ELEVATION
G.V.	GAS VALVE	9.80 TP	TOP OF PAVING ELEVATION
		9.80 TG	TOP OF GRATE
FH	FIRE HYDRANT	9.80 G	GUTTER ELEVATION
WM	WATER METER	IE 9.80	INVERT ELEVATION
CO	CLEAN OUT		ASPHALT PAVEMENT
	DROP INLET		CONCRETE PAVEMENT
			CONCRETE CURB
G.W.	GUY WIRE		CONCRETE CURB & GUTTER
T.B.	TELEPHONE JUNCTION BOX	62	CONTOUR
C.B.	CATCH BASIN		DRAINAGE FLOW
R.C.P.	REINFORCED CONCRETE PIPE	RCP	REINFORCED CONCRETE PIPE
C.P.P.	CORRUGATED PLASTIC PIPE	CPP	CORRUGATED PLASTIC PIPE
P.V.C.	POLYVINYL CHLORIDE PIPE	PVC	POLYVINYL CHLORIDE PIPE
D.I.P.	DUCTILE IRON PIPE	D.I.P.	DUCTILE IRON PIPE

GENERAL NOTES:

1. A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONTRACTOR IS PERFORMING WORK.
2. WITHIN ALL NOTES, THE TERM CONTRACTOR SHALL MEAN THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR OR VENDOR PERFORMING CONSTRUCTION ON THE SITE.
3. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE STATE'S LOCATION SERVICE AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
5. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF FEDERAL, STATE, COUNTY AND LOCAL MUNICIPALITIES.
6. ALL MATERIALS, METHODS AND DETAILS OF CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE LOCAL MUNICIPALITY AND/OR THE APPROPRIATE UTILITY COMPANY, WHICHEVER TAKES PRECEDENCE.
7. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE, & LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
8. GENERAL CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED PRIOR TO THE START OF THE PROJECT.
9. ANY CONSTRUCTION TRAILERS USED ON-SITE SHALL BE PERMITTED THROUGH LOCAL GOVERNING AGENCY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE ALL NECESSARY PERMITS.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING INFRASTRUCTURE WITHIN THE SITE OR ADJOINING PROPERTIES (i.e. PAVEMENT, CURB, SIDEWALK, UTILITIES, LANDSCAPED AREAS etc.). CONTRACTOR SHALL REPAIR/REPLACE ALL DAMAGED ITEMS IMMEDIATELY, IF NECESSARY, OR PRIOR TO THE END OF THE JOB AND AT NO COST TO THE OWNER IN ACCORDANCE WITH LOCAL REGULATOR REQUIREMENTS.
11. SITE WORK CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT RECORD DRAWINGS PREPARED BY A SOUTH CAROLINA REGISTERED LAND SURVEYOR FOR SANITARY SEWER AND WATER DISTRIBUTION UTILITIES AS-BUILTS TO MEET THE REQUIREMENTS OF THE UTILITY PROVIDER AND STORM DRAINAGE AS-BUILTS TO MEET THE REQUIREMENTS OF SCDHEC/OCRM AND/OR THE NPDES REVIEW AUTHORITY TO INCLUDE AS-BUILTS, PIPING PROFILES, EASEMENT PLATS, VALVE CARDS, AND OTHERS. CLOSE-OUT DOCUMENTATION AS NECESSARY TO OBTAIN FINAL CERTIFICATIONS FOR UTILITIES AND STORM DRAINAGE SYSTEMS BY THE ENGINEER AND ASSOCIATED REVIEW AUTHORITIES.
12. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL UTILITIES BY THE APPROPRIATE UTILITY COMPANY AND SUBCONTRACTORS PERFORMING WORK TO AVOID CONFLICTS. GENERAL CONTRACTOR IS ALSO RESPONSIBLE FOR SCHEDULING INSTALLATION OF ALL UTILITIES IN A TIMELY, ORGANIZED, AND SYSTEMATIC MANNER.
13. IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE OR OTHER UTILITY LINES, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO MAKING FIELD ADJUSTMENTS.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL RUBBISH, TRASH, DEBRIS, AND ORGANIC MATERIAL IN A LEGAL MANNER.
15. THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT AVAILABLE FROM THE OWNER AND COMPLY WITH ALL REPORT RECOMMENDATIONS. IF A CONFLICT ARISES BETWEEN CIVIL DOCUMENTS AND GEOTECHNICAL REPORT, THE MORE STRINGENT SHALL GOVERN.
16. COVENANTS FOR PERMANENT MAINTENANCE OF STORMWATER FACILITIES FORM AND AS-BUILT DRAWINGS FOR STORMWATER MANAGEMENT FACILITIES MUST BE COMPLETED IN ACCORDANCE WITH THE CITY OF CHARLESTON SPECIFICATIONS BEFORE A CERTIFICATE OF OCCUPANCY OR NOTICE OF TERMINATION OF CONSTRUCTION GENERAL PERMIT WILL BE APPROVED.

SITE VICINITY MAP: N.T.S.



SHEET INDEX

SCHEDULE OF MEETINGS & APPROVALS

MEETING	REASON	APPROVAL DATE
PRE-APP TRC	REVIEW OF PLANS	03/09/2020
TRC-1st REVIEW	REVIEW OF PLANS	05/21/2020
TRC-2nd REVIEW	REVIEW OF PLANS	07/15/2020
TRC-3rd REVIEW	REVIEW OF PLANS	08/20/2020
BZA	SPECIAL EXCEPTION: SCHOOL OVERLAY ZONE	07/21/2020
DRB	APPROVAL FOR THE ADDITION TO EXISTING SCHOOL	

STORMWATER DESIGN STANDARDS MANUAL VARIANCES

APP. SECTION	DESCRIPTION OF VARIANCE	SUBMITTED	APPROVED

PROJECT NARRATIVE

CHARLESTON COUNTY SCHOOL DISTRICT INTENDS TO REDEVELOP AN EXISTING MIDDLE SCHOOL CONSISTING OF APPROXIMATELY 23.0 ACRES ALONG BOHICKET ROAD ON JOHNS ISLAND IN THE CITY OF CHARLESTON, CHARLESTON COUNTY, SOUTH CAROLINA. THE REDEVELOPMENT WILL CONSIST OF AN ADDITION TO THE EXISTING STRUCTURE, REMOVAL AND REPLACEMENT OF EXISTING PARKING, ASSOCIATED STORM AND UTILITY ADJUSTMENTS AND EXPANSION OF THE EXISTING POND. THE SITE IS BORDERED BY AN EXISTING SHOPPING CENTER AND CHURCH TO THE WEST, A PUBLIC LIBRARY TO THE NORTH, RESIDENTIAL DWELLINGS AND SUBDIVISIONS TO THE EAST AND BOHICKET ROAD AND VACANT LAND TO THE SOUTH. THE SITE IS CURRENTLY AN OPERATIONAL MIDDLE SCHOOL AND HAS BOTH OPEN GRASSED AREAS AND POCKETS OF DENSE VEGETATION. THE SITE SLOPES GENTLY FROM THE NORTHWEST TO THE EAST AND DIRECTS STORMWATER THROUGH AN EXISTING DRY DETENTION POND WHICH IS THEN DISCHARGED INTO AN EXISTING DITCH AT THE EASTERN EDGE OF THE PROPERTY. THESE STORMWATER DISCHARGES FLOW THROUGH A SERIES OF UNNAMED TRIBUTARIES BEFORE ENTERING CHURCH CREEK, THEN BOHICKET CREEK AND ULTIMATELY REACHING THE MAGNOLIAN RIVER.

STORMWATER MANAGEMENT HAS BEEN DESIGNED TO MEET OR EXCEED THE MINIMUM REQUIREMENTS SET FORTH BY THE CITY OF CHARLESTON. ON-SITE STORMWATER CONVEYANCE WILL CONSIST OF THE EXISTING UNDERGROUND PIPE NETWORK MODIFIED FOR THE BUILDING ADDITION CARRYING STORMWATER TO THE EXISTING POND TO BE EXPANDED WHERE IT WILL BE DETAINED AND RETAINED TO ACHIEVE THE REGULATED POST-DEVELOPMENT CONDITIONS. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED IN ACCORDANCE WITH THE GOVERNING AGENCY. THE CONSTRUCTION ACTIVITIES WILL BE IMPLEMENTED IN THREE EROSION PREVENTION AND SEDIMENT CONTROL PHASES. THE FIRST PHASE INCLUDES THE INITIAL INSTALLATION OF PERIMETER CONTROLS, SEDIMENT CONTROL SWPS, AND THE CONSTRUCTION ENTRANCE. THE SECOND PHASE INCLUDES THE BULK OF THE CONSTRUCTION ACTIVITIES AND THE IMPLEMENTATION OF INTERNAL STORMWATER MANAGEMENT BMPS. THE THIRD AND FINAL PHASE INCLUDES THE INSTALLATION OF FINAL STABILIZATION MEASURES.

THE PROJECT WILL OBTAIN WATER AND SEWER SERVICES BY CONSTRUCTING NEW SERVICE LATERALS OFF THE EXISTING PRIVATE MAINS WITHIN THE PROPERTY. THE SITE WILL BE ACCESSED BY THE EXISTING INFRASTRUCTURE WHICH CONNECTS TO BOHICKET ROAD LOCATED APPROXIMATELY 1,650 FEET SOUTHEAST OF THE INTERSECTION WITH MAYBANK HIGHWAY.

CALL 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER

PROJECT CONTACTS

* SEE SITE UTILITY PLAN FOR UTILITY CONTACTS.

* THE INDIVIDUALS LISTED HERE-IN ARE INTENDED TO BE POINTS OF CONTACT AND ARE NOT NECESSARILY THE PROFESSIONALS OF RECORD. REFER TO THE INDIVIDUAL DISCIPLINE PLANS FOR INFORMATION REGARDING THE RESPECTIVE PROFESSIONALS OF RECORD.

SURVEYOR
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EMAIL: ATTAYLOR@ESPASSOCIATES.COM
ENGINEER OF RECORD: AARON TAYLOR, PLS

CIVIL/SITE
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PHONE: 843-849-7500
FAX: 843-849-7502
EMAIL: STAYLOR@HUSSEYGAYBELL.COM
ENGINEER OF RECORD: BRAD L. TAYLOR, PE

LANDSCAPE
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OWNER/DEVELOPER
CHARLESTON COUNTY SCHOOL DISTRICT
3999 BRIDGEVIEW RD
NORTH CHARLESTON, SC 29405
CONTACT: MR. REGINALD McNEIL
PHONE: 843-856-1975
FAX: -
EMAIL: REGINALD_MCNEIL@CHARLESTON.K12.SC.US

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RED IRON ARCHITECTS
4981 DURANT AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405

HUSSEY GAY BELL
Established 1958
Hussey, Gay, Bell & DeYoung, Inc.
Consulting Engineers of SC
T 843.849.7500

BROWNSTONE
BROWNSTONE GROUP
4055 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

HUSSEY, GAY, BELL & DEYOUNG, INC.
SCHEDULED TO BE CHECKED BY 06 Dec. 2021
CERTIFICATE OF AUTHORIZATION
CORPORATE SEAL

REGISTERED LANDSCAPE ARCHITECT
No. 23360
9/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	8/26/2020	ADDENDUM 2 - DRB/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

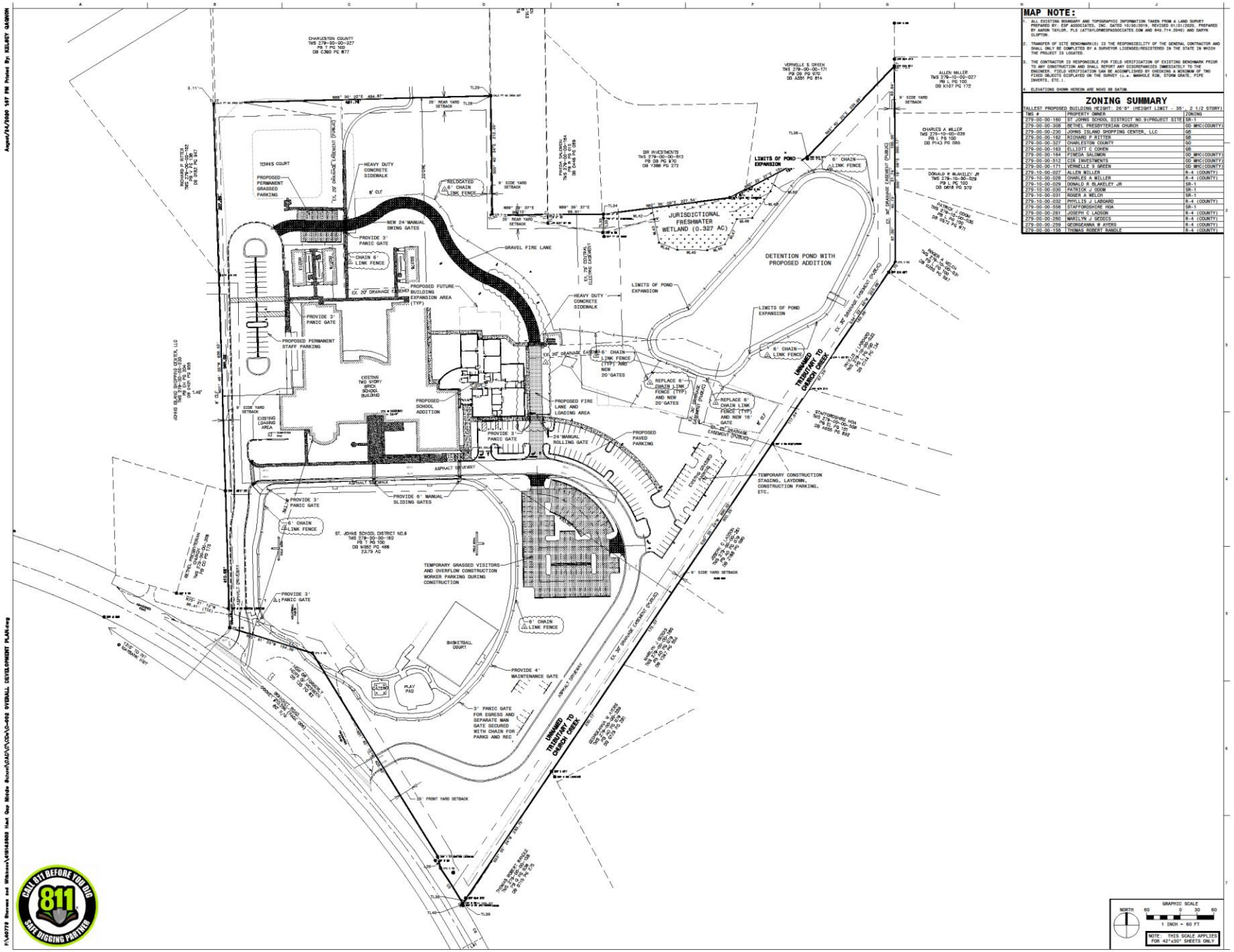
Charleston County School District

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
1861 BOHICKET RD, JOHNS ISLAND, SC 29455

CIVIL COVER SHEET

C001

August/24/2020 8:57 PM Plotted By: KELSEY GAZMON
F:\40778 Stevens and Wilkinson\Vol\162920 Haut Gap Middle School\CAD\C\CDs\C-001 CIVIL COVER SHEET.dwg



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NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

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■ PROJECT NUMBER: 19065.00
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CONSTRUCTION DOCUMENTS

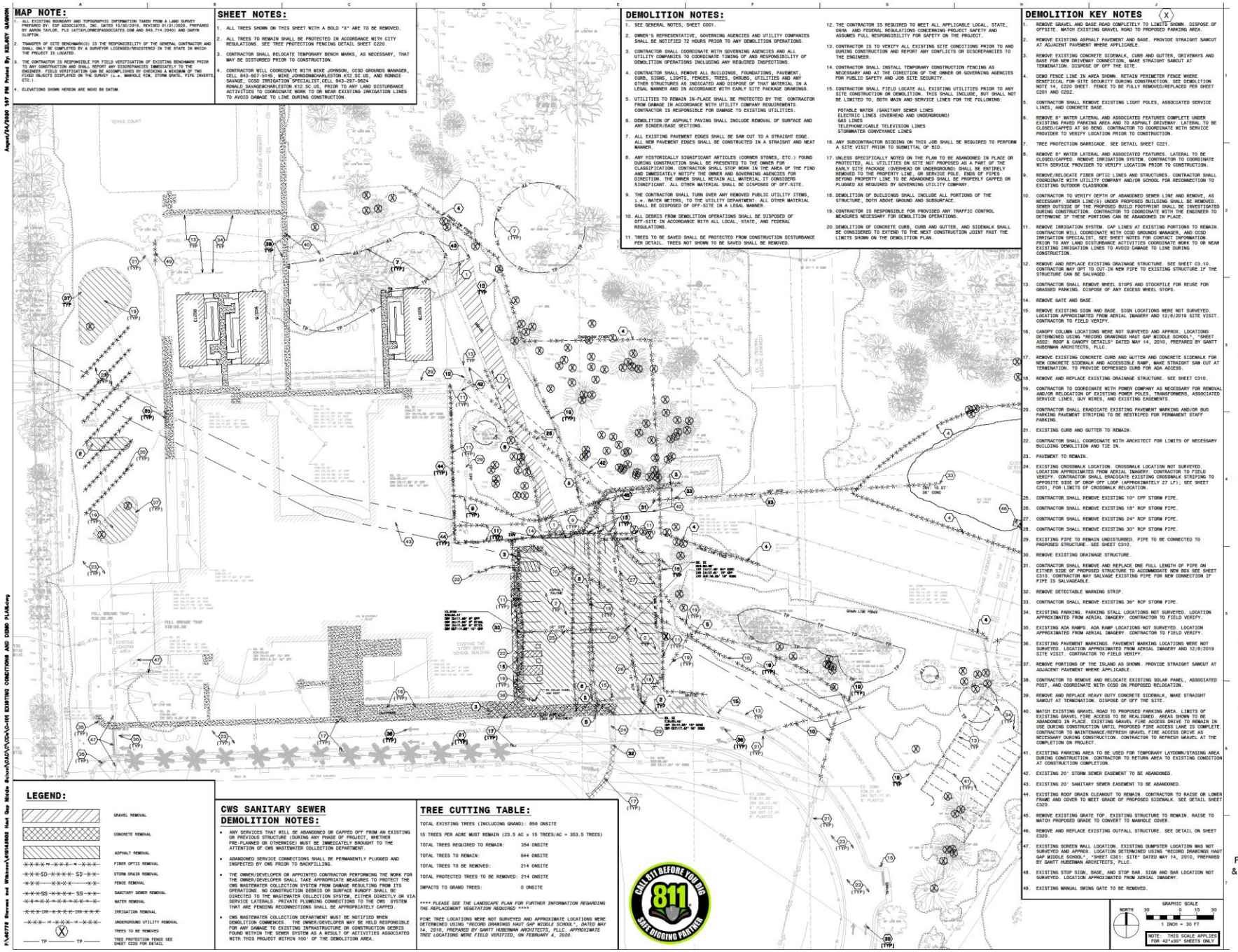
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

OVERALL DEVELOPMENT PLAN

C002



MAP NOTE:

1. ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: ESP ASSOCIATES, INC. DATED 10/30/2019, REVISED 01/31/2020. PREPARED BY AARON TAYLOR, PLS (ATTAYLOR@ESPASSOCIATES.COM AND 843.714.0940) AND DARYN CLOPTON.
2. TRANSFER OF SITE BENCHMARK(S) IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL ONLY BE COMPLETED BY A SURVEYOR LICENSED/REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING BENCHMARK PRIOR TO ANY CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. FIELD VERIFICATION CAN BE ACCOMPLISHED BY CHECKING A MINIMUM OF TWO FIXED OBJECTS DISPLAYED ON THE SURVEY (i.e. MANHOLE RIM, STORM GRATE, PIPE INVERTS, ETC.).
4. ELEVATIONS SHOWN HEREON ARE NAVD 88 DATUM.

SHEET NOTES:

1. ALL TREES SHOWN ON THIS SHEET WITH A BOLD "X" ARE TO BE REMOVED.
2. ALL TREES TO REMAIN SHALL BE PROTECTED IN ACCORDANCE WITH CITY REGULATIONS. SEE TREE PROTECTION FENCING DETAIL SHEET C220.
3. CONTRACTOR SHALL RELOCATE TEMPORARY BENCH MARKS, AS NECESSARY, THAT MAY BE DISTURBED PRIOR TO CONSTRUCTION.
4. CONTRACTOR WILL COORDINATE WITH MIKE JOHNSON, CCSD GROUNDS MANAGER, CELL 843-607-5145, MIKE_JOHNSON@CHARLESTON.K12.SC.US, AND RONNIE SAVAGE, CCSD IRRIGATION SPECIALIST,CELL 843-297-0624 RONALD.SAVAGE@CHARLESTON.K12.SC.US, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TO COORDINATE WORK TO OR NEAR EXISTING IRRIGATION LINES TO AVOID DAMAGE TO LINE DURING CONSTRUCTION.

DEMOLITION NOTES:

1. SEE GENERAL NOTES, SHEET C001.
2. OWNER'S REPRESENTATIVE, GOVERNING AGENCIES AND UTILITY COMPANIES SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY DEMOLITION OPERATIONS.
3. CONTRACTOR SHALL COORDINATE WITH GOVERNING AGENCIES AND ALL UTILITY COMPANIES TO COORDINATE TIMING OF AND RESPONSIBILITY OF DEMOLITION OPERATIONS INCLUDING ANY REQUIRED INSPECTIONS.
4. CONTRACTOR SHALL REMOVE ALL BUILDINGS, FOUNDATIONS, PAVEMENT, CURB, SIGNS, LIGHTS, FENCES, TREES, SHRUBS, UTILITIES AND ANY OTHER STRUCTURES AS INDICATED AND DISPOSE OF THAT MATERIAL IN A LEGAL MANNER AND IN ACCORDANCE WITH EARLY SITE PACKAGE DRAWINGS.
5. UTILITIES TO REMAIN IN-PLACE SHALL BE PROTECTED BY THE CONTRACTOR FROM DAMAGE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES.
6. DEMOLITION OF ASPHALT PAVING SHALL INCLUDE REMOVAL OF SURFACE AND ANY BINDER/BASE SECTIONS.
7. ALL EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO A STRAIGHT EDGE. ALL NEW PAVEMENT EDGES SHALL BE CONSTRUCTED IN A STRAIGHT AND NEAT MANNER.
8. ANY HISTORICALLY SIGNIFICANT ARTICLES (CORNER STONES, ETC.) FOUND DURING CONSTRUCTION SHALL BE PRESENTED TO THE OWNER FOR CLASSIFICATION. CONTRACTOR SHALL STOP WORK IN THE AREA OF THE FIND AND IMMEDIATELY NOTIFY THE OWNER AND GOVERNING AGENCIES FOR DIRECTION. THE OWNER SHALL RETAIN ALL MATERIAL IT CONSIDERS SIGNIFICANT. ALL OTHER MATERIAL SHALL BE DISPOSED OF OFF-SITE.
9. THE CONTRACTOR SHALL TURN OVER ANY REMOVED PUBLIC UTILITY ITEMS, i.e. WATER METERS, TO THE UTILITY DEPARTMENT. ALL OTHER MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
10. ALL DEBRIS FROM DEMOLITION OPERATIONS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
11. TREES TO BE SAVED SHALL BE PROTECTED FROM CONSTRUCTION DISTURBANCE PER DETAIL. TREES NOT SHOWN TO BE SAVED SHALL BE REMOVED.
12. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE LOCAL, STATE, OSHA AND FEDERAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
13. CONTRACTOR IS TO VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ENGINEER.
14. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AS NECESSARY AND AT THE DIRECTION OF THE OWNER OR GOVERNING AGENCIES FOR PUBLIC SAFETY AND JOB SITE SECURITY.
15. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO ANY SITE CONSTRUCTION OR DEMOLITION. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, BOTH MAIN AND SERVICE LINES FOR THE FOLLOWING:

    POTABLE WATER /SANITARY SEWER LINES
    ELECTRIC LINES (OVERHEAD AND UNDERGROUND)
    GAS LINES
    TELEPHONE/CABLE TELEVISION LINES
    STORMWATER CONVEYANCE LINES

16. ANY SUBCONTRACTOR BIDDING ON THIS JOB SHALL BE REQUIRED TO PERFORM A SITE VISIT PRIOR TO SUBMITTAL OF BID.
17. UNLESS SPECIFICALLY NOTED ON THE PLAN TO BE ABANDONED IN PLACE OR PROTECTED, ALL UTILITIES ON SITE NOT PROPOSED AS A PART OF THE EARLY SITE PACKAGE (OVERHEAD OR UNDERGROUND) SHALL BE ENTIRELY REMOVED TO THE PROPERTY LINE, OR SERVICE POLE. ENDS OF PIPES BEYOND PROPERTY LINE TO BE ABANDONED SHALL BE PROPERLY CAPPED OR PLUGGED AS REQUIRED BY GOVERNING UTILITY COMPANY.
18. DEMOLITION OF BUILDINGS SHALL INCLUDE ALL PORTIONS OF THE STRUCTURE, BOTH ABOVE GROUND AND SUBSURFACE.
19. CONTRACTOR IS RESPONSIBLE FOR PROVIDED ANY TRAFFIC CONTROL MEASURES NECESSARY FOR DEMOLITION OPERATIONS.
20. DEMOLITION OF CONCRETE CURB, CURB AND GUTTER, AND SIDEWALK SHALL BE CONSIDERED TO EXTEND TO THE NEXT CONSTRUCTION JOINT PAST THE LIMITS SHOWN ON THE DEMOLITION PLAN.

DEMOLITION KEY NOTES (X)

1. REMOVE GRAVEL AND BASE ROAD COMPLETELY TO LIMITS SHOWN. DISPOSE OF OFFSITE. MATCH EXISTING GRAVEL ROAD TO PROPOSED PARKING AREA.
2. REMOVE EXISTING ASPHALT PAVEMENT AND BASE. PROVIDE STRAIGHT SAWCUT AT ADJACENT PAVEMENT WHERE APPLICABLE.
3. REMOVE EXISTING CONCRETE SIDEWALK, CURB AND GUTTER, DRIVEWAYS AND BASE FOR NEW DRIVEWAY CONNECTION, MAKE STRAIGHT SAWCUT AT TERMINATION. DISPOSE OF OFF THE SITE.
4. DEMO FENCE LINE IN AREA SHOWN. RETAIN PERIMETER FENCE WHERE BENEFICIAL FOR SITE SECURITY DURING CONSTRUCTION. SEE DEMOLITION NOTE 14, C220 SHEET. FENCE TO BE FULLY REMOVED/REPLACED PER SHEET C201 AND C202.
5. CONTRACTOR SHALL REMOVE EXISTING LIGHT POLES, ASSOCIATED SERVICE LINES, AND CONCRETE BASE.
6. REMOVE 8" WATER LATERAL AND ASSOCIATED FEATURES COMPLETE UNDER EXISTING PAVED PARKING AREA AND TO ASPHALT DRIVEWAY. LATERAL TO BE CLOSED/CAPPED AT 90 DEG. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
7. TREE PROTECTION BARRICADE. SEE DETAIL SHEET C221.
8. REMOVE 8" WATER LATERAL AND ASSOCIATED FEATURES. LATERAL TO BE CLOSED/CAPPED. REMOVE IRRIGATION SYSTEM. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
9. REMOVE/RELOCATE FIBER OPTIC LINES AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY AND/OR SCHOOL FOR RECONNECTION TO EXISTING OUTDOOR CLASSROOM.
10. CONTRACTOR TO VERIFY DEPTH OF ABANDONED SEWER LINE AND REMOVE, AS NECESSARY. SEWER LINE(S) UNDER PROPOSED BUILDING SHALL BE REMOVED. SEWER OUTSIDE OF THE PROPOSED BUILD FOOTPRINT SHALL BE INVESTIGATED DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH THE ENGINEER TO DETERMINE IF THESE PORTIONS CAN BE ABANDONED IN PLACE.
11. REMOVE IRRIGATION SYSTEM. CAP LINES AT EXISTING PORTIONS TO REMAIN. CONTRACTOR WILL COORDINATE WITH CCSD GROUNDS MANAGER, AND CCSD IRRIGATION SPECIALIST. SEE SHEET NOTES FOR CONTACT INFORMATION PRIOR TO ANY LAND DISTURBANCE ACTIVITIES COORDINATE WORK TO OR NEAR EXISTING IRRIGATION LINES TO AVOID DAMAGE TO LINE DURING CONSTRUCTION.
12. REMOVE AND REPLACE EXISTING DRAINAGE STRUCTURE. SEE SHEET C3.10. CONTRACTOR MAY OPT TO CUT-IN NEW PIPE TO EXISTING STRUCTURE IF THE STRUCTURE CAN BE SALVAGED.
13. CONTRACTOR SHALL REMOVE WHEEL STOPS AND STOCKPILE FOR REUSE FOR GRASSED PARKING. DISPOSE OF ANY EXCESS WHEEL STOPS.
14. REMOVE GATE AND BASE.
15. REMOVE EXISTING SIGN AND BASE. SIGN LOCATIONS WERE NOT SURVEYED. LOCATION APPROXIMATED FROM AERIAL IMAGERY AND 12/8/2019 SITE VISIT. CONTRACTOR TO FIELD VERIFY.
16. CANOPY COLUMN LOCATIONS WERE NOT SURVEYED AND APPROX. LOCATIONS DETERMINED USING "RECORD DRAWINGS HAUT GAP MIDDLE SCHOOL", "SHEET A502: ROOF & CANOPY DETAILS" DATED MAY 14, 2010, PREPARED BY GANTT HUBERMAN ARCHITECTS, PLLC.
17. REMOVE EXISTING CONCRETE CURB AND GUTTER AND CONCRETE SIDEWALK FOR NEW CONCRETE SIDEWALK AND ACCESSIBLE RAMP, MAKE STRAIGHT SAW CUT AT TERMINATION. TO PROVIDE DEPRESSED CURB FOR ADA ACCESS.
18. REMOVE AND REPLACE EXISTING DRAINAGE STRUCTURE. SEE SHEET C310.
19. CONTRACTOR TO COORDINATE WITH POWER COMPANY AS NECESSARY FOR REMOVAL AND/OR RELOCATION OF EXISTING POWER POLES, TRANSFORMERS, ASSOCIATED SERVICE LINES, GUY WIRES, AND EXISTING EASEMENTS.
20. CONTRACTOR SHALL ERADICATE EXISTING PAVEMENT MARKING AND/OR BUS PARKING PAVEMENT STRIPING TO BE RESTRIPED FOR PERMANENT STAFF PARKING.
21. EXISTING CURB AND GUTTER TO REMAIN.
22. CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR LIMITS OF NECESSARY BUILDING DEMOLITION AND TIE IN.
23. PAVEMENT TO REMAIN.
24. EXISTING CROSSWALK LOCATION. CROSSWALK LOCATION NOT SURVEYED. LOCATION APPROXIMATED FROM AERIAL IMAGERY. CONTRACTOR TO FIELD VERIFY. CONTRACTOR SHALL ERADICATE EXISTING CROSSWALK STRIPING TO OPPOSITE SIDE OF DROP OFF LOOP (APPROXIMATELY 27 LF); SEE SHEET C201, FOR LIMITS OF CROSSWALK RELOCATION.
25. CONTRACTOR SHALL REMOVE EXISTING 10" CPP STORM PIPE.
26. CONTRACTOR SHALL REMOVE EXISTING 18" RCP STORM PIPE.
27. CONTRACTOR SHALL REMOVE EXISTING 24" RCP STORM PIPE.
28. CONTRACTOR SHALL REMOVE EXISTING 30" RCP STORM PIPE.
29. EXISTING PIPE TO REMAIN UNDISTURBED. PIPE TO BE CONNECTED TO PROPOSED STRUCTURE. SEE SHEET C310.
30. REMOVE EXISTING DRAINAGE STRUCTURE.
31. CONTRACTOR SHALL REMOVE AND REPLACE ONE FULL LENGTH OF PIPE ON EITHER SIDE OF PROPOSED STRUCTURE TO ACCOMMODATE NEW BOX SEE SHEET C310. CONTRACTOR MAY SALVAGE EXISTING PIPE FOR NEW CONNECTION IF PIPE IS SALVAGEABLE
32. REMOVE DETECTABLE WARNING STRIP.
33. CONTRACTOR SHALL REMOVE EXISTING 36" RCP STORM PIPE.
34. EXISTING PARKING. PARKING STALL LOCATIONS NOT SURVEYED. LOCATION APPROXIMATED FROM AERIAL IMAGERY. CONTRACTOR TO FIELD VERIFY.
35. EXISTING ADA RAMPS. ADA RAMP LOCATIONS NOT SURVEYED. LOCATION APPROXIMATED FROM AERIAL IMAGERY. CONTRACTOR TO FIELD VERIFY.
36. EXISTING PAVEMENT MARKINGS. PAVEMENT MARKING LOCATIONS WERE NOT SURVEYED. LOCATION APPROXIMATED FROM AERIAL IMAGERY AND 12/8/2019 SITE VISIT. CONTRACTOR TO FIELD VERIFY.
37. REMOVE PORTIONS OF THE ISLAND AS SHOWN. PROVIDE STRAIGHT SAWCUT AT ADJACENT PAVEMENT WHERE APPLICABLE.
38. CONTRACTOR TO REMOVE AND RELOCATE EXISTING SOLAR PANEL, ASSOCIATED POST, AND COORDINATE WITH CCSD ON PROPOSED RELOCATION.
39. REMOVE AND REPLACE HEAVY DUTY CONCRETE SIDEWALK, MAKE STRAIGHT SAWCUT AT TERMINATION. DISPOSE OF OFF THE SITE.
40. MATCH EXISTING GRAVEL ROAD TO PROPOSED PARKING AREA. LIMITS OF EXISTING GRAVEL FIRE ACCESS TO BE REALIGNED. AREAS SHOWN TO BE ABANDONED IN PLACE. EXISTING GRAVEL FIRE ACCESS DRIVE TO REMAIN IN USE DURING CONSTRUCTION UNTIL PROPOSED FIRE ACCESS LANE IS COMPLETE. CONTRACTOR TO MAINTENANCE/REFRESH GRAVEL FIRE ACCESS DRIVE AS NECESSARY DURING CONSTRUCTION. CONTRACTOR TO REFRESH GRAVEL AT THE COMPLETION ON PROJECT.
41. EXISTING PARKING AREA TO BE USED FOR TEMPORARY LAYDOWN/STAGING AREA DURING CONSTRUCTION. CONTRACTOR TO RETURN AREA TO EXISTING CONDITION AT CONSTRUCTION COMPLETION.
42. EXISTING 20' STORM SEWER EASEMENT TO BE ABANDONED.
43. EXISTING 20' SANITARY SEWER EASEMENT TO BE ABANDONED.
44. EXISTING ROOF DRAIN CLEANOUT TO REMAIN. CONTRACTOR TO RAISE OR LOWER FRAME AND COVER TO MEET GRADE OF PROPOSED SIDEWALK. SEE DETAIL SHEET C320.
45. REMOVE EXISTING GRATE TOP. EXISTING STRUCTURE TO REMAIN. RAISE TO MATCH PROPOSED GRADE TO CONVERT TO MANHOLE COVER.
46. REMOVE AND REPLACE EXISTING OUTFALL STRUCTURE. SEE DETAIL ON SHEET C320.
47. EXISTING SCREEN WALL LOCATION. EXISTING DUMPSTER LOCATION WAS NOT SURVEYED AND APPROX. LOCATION DETERMINED USING "RECORD DRAWINGS HAUT GAP MIDDLE SCHOOL", "SHEET C301: SITE" DATED MAY 14, 2010, PREPARED BY GANTT HUBERMAN ARCHITECTS, PLLC.
48. EXISTING STOP SIGN, BASE, AND STOP BAR. SIGN AND BAR LOCATION NOT SURVEYED. LOCATION APPROXIMATED FROM AERIAL IMAGERY.
49. EXISTING MANUAL SWING GATE TO BE REMOVED.

LEGEND:

- GRAVEL REMOVAL
- CONCRETE REMOVAL
- ASPHALT REMOVAL
- FIBER OPTIC REMOVAL
- STORM DRAIN REMOVAL
- FENCE REMOVAL
- SANITARY SEWER REMOVAL
- WATER REMOVAL
- IRRIGATION REMOVAL
- UNDERGROUND UTILITY REMOVAL
- TREES TO BE REMOVED
- TREE PROTECTION FENCE SEE SHEET C220 FOR DETAIL

CWS SANITARY SEWER DEMOLITION NOTES:

- ANY SERVICES THAT WILL BE ABANDONED OR CAPPED OFF FROM AN EXISTING OR PREVIOUS STRUCTURE (DURING ANY PHASE OF PROJECT, WHETHER PRE-PLANNED OR OTHERWISE) MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF CWS WASTEWATER COLLECTION DEPARTMENT.
- ABANDONED SERVICE CONNECTIONS SHALL BE PERMANENTLY PLUGGED AND INSPECTED BY CWS PRIOR TO BACKFILLING.
- THE OWNER/DEVELOPER OR APPOINTED CONTRACTOR PERFORMING THE WORK FOR THE OWNER/DEVELOPER SHALL TAKE APPROPRIATE MEASURES TO PROTECT THE CWS WASTEWATER COLLECTION SYSTEM FROM DAMAGE RESULTING FROM ITS OPERATIONS. NO CONSTRUCTION DEBRIS OR SURFACE RUNOFF SHALL BE DIRECTED TO THE WASTEWATER COLLECTION SYSTEM, EITHER DIRECTLY OR VIA SERVICE LATERALS. PRIVATE PLUMBING CONNECTIONS TO THE CWS SYSTEM THAT ARE PENDING RECONNECTIONS SHALL BE APPROPRIATELY CAPPED.
- CWS WASTEWATER COLLECTION DEPARTMENT MUST BE NOTIFIED WHEN DEMOLITION COMMENCES. THE OWNER/DEVELOPER MAY BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING INFRASTRUCTURE OR CONSTRUCTION DEBRIS FOUND WITHIN THE SEWER SYSTEM AS A RESULT OF ACTIVITIES ASSOCIATED WITH THIS PROJECT WITHIN 100' OF THE DEMOLITION AREA.

TREE CUTTING TABLE:

TOTAL EXISTING TREES (INCLUDING GRAND):	858 ONSITE
15 TREES PER ACRE MUST REMAIN (23.5 AC x 15 TREES/AC = 353.5 TREES)	
TOTAL TREES REQUIRED TO REMAIN:	354 ONSITE
TOTAL TREES TO REMAIN:	644 ONSITE
TOTAL TREES TO BE REMOVED:	214 ONSITE
TOTAL PROTECTED TREES TO BE REMOVED:	214 ONSITE
IMPACTS TO GRAND TREES:	0 ONSITE

**** PLEASE SEE THE LANDSCAPE PLAN FOR FURTHER INFORMATION REGARDING THE REPLACEMENT VEGETATION REQUIRED ****

FINE TREE LOCATIONS WERE NOT SURVEYED AND APPROXIMATE LOCATIONS WERE DETERMINED USING "RECORD DRAWINGS HAUT GAP MIDDLE SCHOOL", DATED MAY 14, 2010, PREPARED BY GANTT HUBERMAN ARCHITECTS, PLLC. APPROXIMATE TREE LOCATIONS WERE FIELD VERIFIED, ON FEBRUARY 4, 2020.

CALL 811 BEFORE YOU DIG — SITE DIGGING PARTNER

GRAPHIC SCALE
NORTH 30 0 15 30
1 INCH = 30 FT
NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

S&W ARCHITECTURE ENGINEERING INTERIORS
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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

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CONSTRUCTION DOCUMENTS

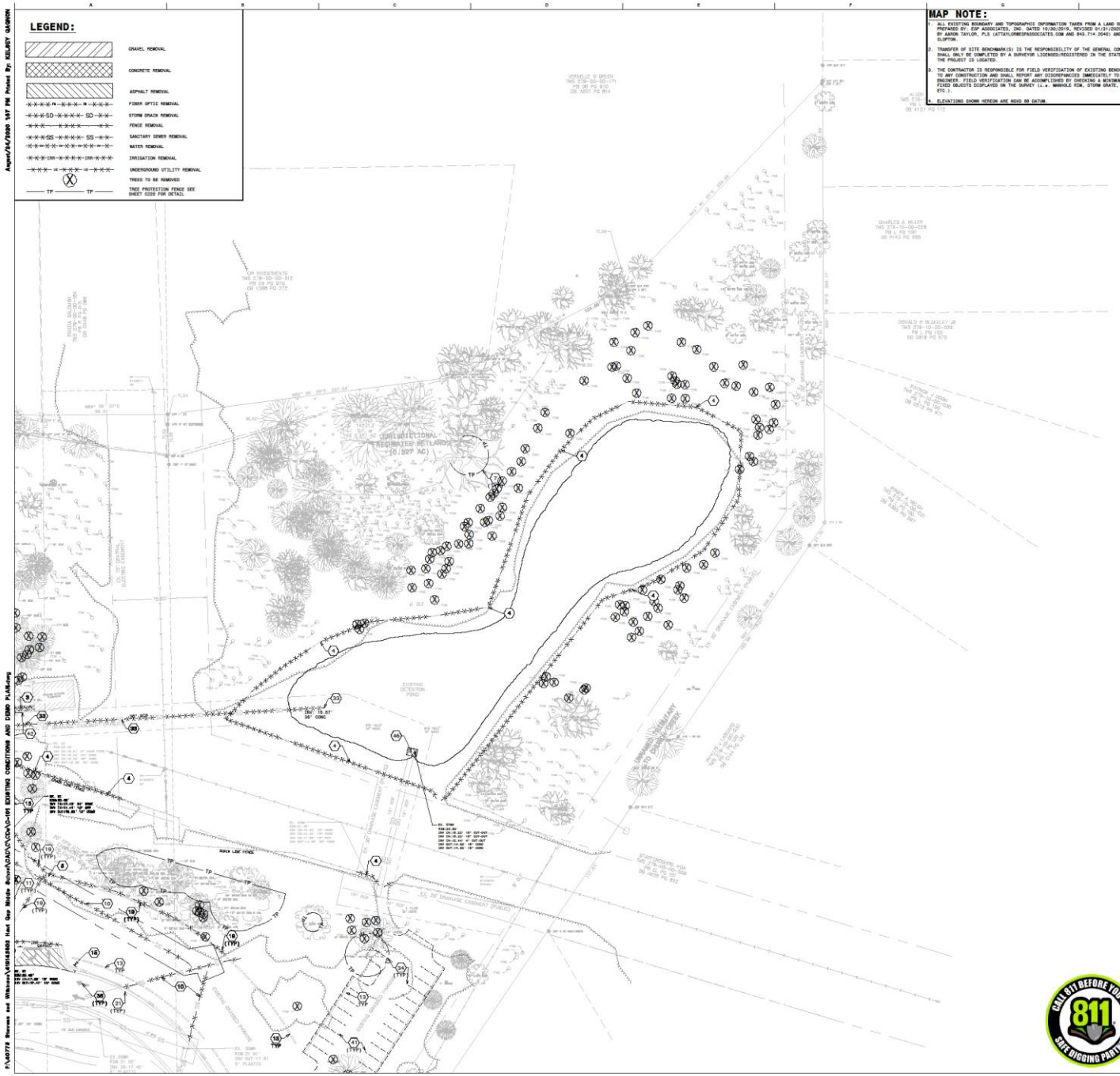
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

PHASE 1 DEMOLITION & TREE REMOVAL PLAN

C101



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CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

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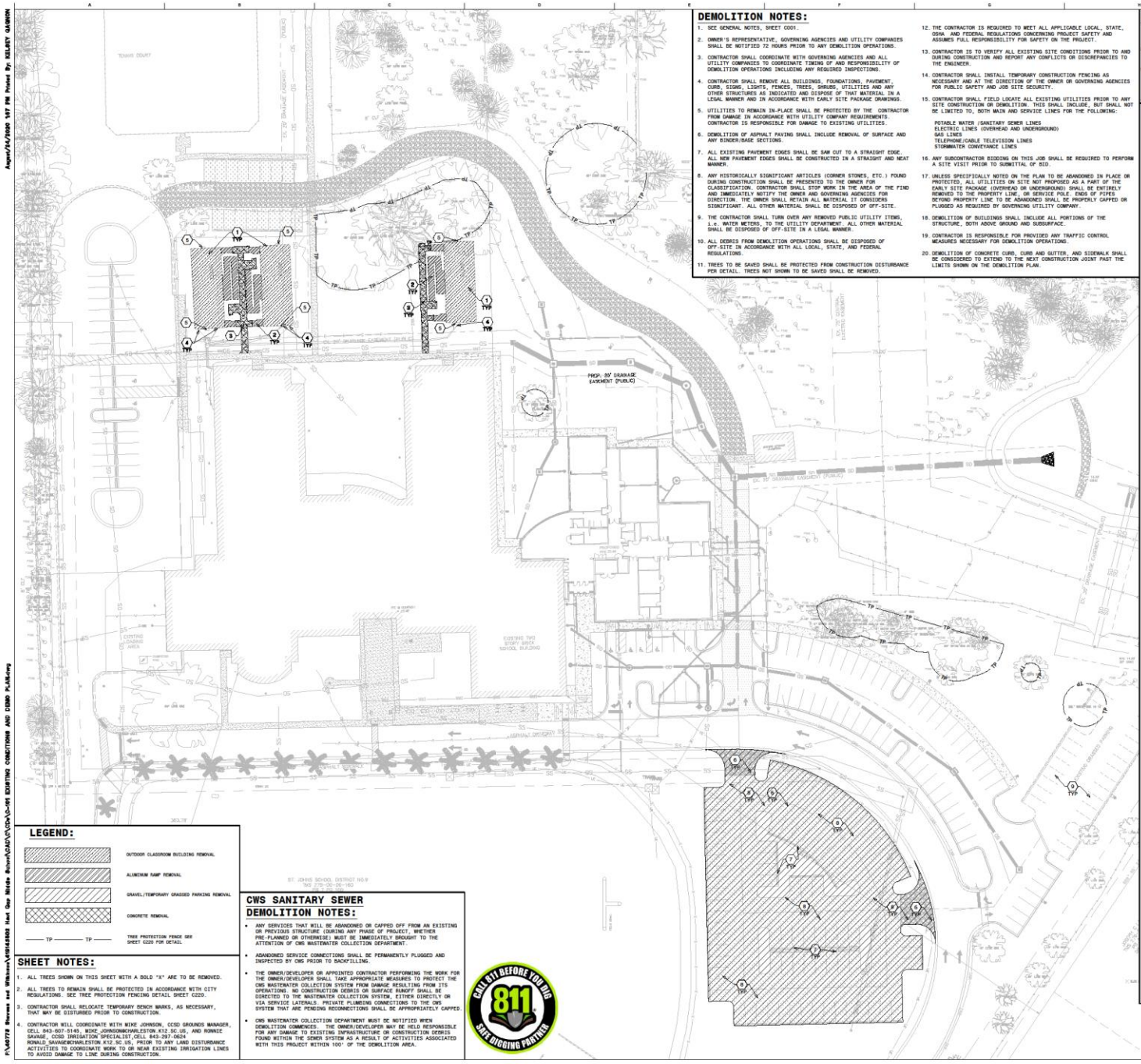
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

PHASE 1 DEMOLITION & TREE REMOVAL PLAN

C102



DEMOLITION NOTES:

1. SEE GENERAL NOTES, SHEET C001.
2. OWNER'S REPRESENTATIVE, GOVERNING AGENCIES AND UTILITY COMPANIES SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY DEMOLITION OPERATIONS.
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5. UTILITIES TO REMAIN IN-PLACE SHALL BE PROTECTED BY THE CONTRACTOR FROM DAMAGE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES.
6. DEMOLITION OF ASPHALT PAVING SHALL INCLUDE REMOVAL OF SURFACE AND ANY BINDER/BASE SECTIONS.
7. ALL EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO A STRAIGHT EDGE. ALL NEW PAVEMENT EDGES SHALL BE CONSTRUCTED IN A STRAIGHT AND NEAT MANNER.
8. ANY HISTORICALLY SIGNIFICANT ARTICLES (CORNER STONES, ETC.) FOUND DURING CONSTRUCTION SHALL BE PRESENTED TO THE OWNER FOR CLASSIFICATION. CONTRACTOR SHALL STOP WORK IN THE AREA OF THE FIND AND IMMEDIATELY NOTIFY THE OWNER AND GOVERNING AGENCIES FOR DIRECTION. THE OWNER SHALL RETAIN ALL MATERIAL IT CONSIDERS SIGNIFICANT. ALL OTHER MATERIAL SHALL BE DISPOSED OF OFF-SITE.
9. THE CONTRACTOR SHALL TURN OVER ANY REMOVED PUBLIC UTILITY ITEMS, i.e. WATER METERS, TO THE UTILITY DEPARTMENT. ALL OTHER MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
10. ALL DEBRIS FROM DEMOLITION OPERATIONS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
11. TREES TO BE SAVED SHALL BE PROTECTED FROM CONSTRUCTION DISTURBANCE PER DETAIL. TREES NOT SHOWN TO BE SAVED SHALL BE REMOVED.
12. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE LOCAL, STATE, OSHA AND FEDERAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
13. CONTRACTOR IS TO VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ENGINEER.
14. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AS NECESSARY AND AT THE DIRECTION OF THE OWNER OR GOVERNING AGENCIES FOR PUBLIC SAFETY AND JOB SITE SECURITY.
15. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO ANY SITE CONSTRUCTION OR DEMOLITION. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, BOTH MAIN AND SERVICE LINES FOR THE FOLLOWING:

    POTABLE WATER /SANITARY SEWER LINES
    ELECTRIC LINES (OVERHEAD AND UNDERGROUND)
    GAS LINES
    TELEPHONE/CABLE TELEVISION LINES
    STORMWATER CONVEYANCE LINES

16. ANY SUBCONTRACTOR BIDDING ON THIS JOB SHALL BE REQUIRED TO PERFORM A SITE VISIT PRIOR TO SUBMITTAL OF BID.
17. UNLESS SPECIFICALLY NOTED ON THE PLAN TO BE ABANDONED IN PLACE OR PROTECTED, ALL UTILITIES ON SITE NOT PROPOSED AS A PART OF THE EARLY SITE PACKAGE (OVERHEAD OR UNDERGROUND) SHALL BE ENTIRELY REMOVED TO THE PROPERTY LINE, OR SERVICE POLE. ENDS OF PIPES BEYOND PROPERTY LINE TO BE ABANDONED SHALL BE PROPERLY CAPPED OR PLUGGED AS REQUIRED BY GOVERNING UTILITY COMPANY.
18. DEMOLITION OF BUILDINGS SHALL INCLUDE ALL PORTIONS OF THE STRUCTURE, BOTH ABOVE GROUND AND SUBSURFACE.
19. CONTRACTOR IS RESPONSIBLE FOR PROVIDED ANY TRAFFIC CONTROL MEASURES NECESSARY FOR DEMOLITION OPERATIONS.
20. DEMOLITION OF CONCRETE CURB, CURB AND GUTTER, AND SIDEWALK SHALL BE CONSIDERED TO EXTEND TO THE NEXT CONSTRUCTION JOINT PAST THE LIMITS SHOWN ON THE DEMOLITION PLAN.

MAP NOTE:

1. ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: ESP ASSOCIATES, INC. DATED 10/30/2019, REVISED 01/31/2020, PREPARED BY AARON TAYLOR, PLS (ATTAYLOR@ESPASSOCIATES.COM AND 843.714.3046) AND DARYN CLOPTON.
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4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

DEMOLITION KEY NOTES (X)

1. EXISTING OUTDOOR CLASSROOMS TO REMAIN AND BE UTILIZED FOR CLASSES DURING CONSTRUCTION. CCSD TO COORDINATE WITH CONTRACTOR TO REMOVE EXISTING OUTDOOR CLASSROOMS AFTER THE COMPLETION OF CONSTRUCTION. CONTRACTOR TO PROVIDE PERMANENT STABILIZATION WHERE OUTDOOR CLASSROOMS AND ASSOCIATED FEATURES HAVE BEEN REMOVED.
2. ALUMINUM RAMPS TO BE REMOVED AND SALVAGED TO TURN OVER TO OWNER.
3. EXISTING CONCRETE SIDEWALKS TO BE REMOVED BY CONTRACTOR. CONTRACTOR TO PROVIDE PERMANENT STABILIZATION IN AREAS OF THE SIDEWALK REMOVED.
4. CONTRACTOR TO CAP EXISTING UTILITIES AND LEAVE LINES IN PLACE.
5. CONTRACTOR TO SALVAGE AIR CONDITIONING UNITS TO BE TURNED OVER TO THE OWNER.
6. CONTRACTOR TO REMOVE TEMPORARY GRAVEL ACCESS DRIVES TO TEMPORARY CONSTRUCTION PARKING.
7. CONTRACTOR TO REMOVE TEMPORARY CONSTRUCTION PARKING WHEEL STOPS. REUSE ONSITE OR REMOVE AS NECESSARY.
8. CONTRACTOR TO PROVIDE PERMANENT STABILIZATION FOR TEMPORARY CONSTRUCTION PARKING AREA.
9. EXISTING PARKING AREA TO BE USED FOR TEMPORARY LAYDOWN/STAGING AREA DURING CONSTRUCTION. CONTRACTOR TO RETURN AREA TO EXISTING CONDITION AT CONSTRUCTION COMPLETION.

LEGEND:

- OUTDOOR CLASSROOM BUILDING REMOVAL
- ALUMINUM RAMP REMOVAL
- GRAVEL/TEMPORARY GRASSED PARKING REMOVAL
- CONCRETE REMOVAL
- TP ——— TP ——— TREE PROTECTION FENCE SEE SHEET C220 FOR DETAIL.

SHEET NOTES:

1. ALL TREES SHOWN ON THIS SHEET WITH A BOLD "X" ARE TO BE REMOVED.
2. ALL TREES TO REMAIN SHALL BE PROTECTED IN ACCORDANCE WITH CITY REGULATIONS. SEE TREE PROTECTION FENCING DETAIL SHEET C220.
3. CONTRACTOR SHALL RELOCATE TEMPORARY BENCH MARKS, AS NECESSARY, THAT MAY BE DISTURBED PRIOR TO CONSTRUCTION.
4. CONTRACTOR WILL COORDINATE WITH MIKE JOHNSON, CCSD GROUNDS MANAGER, CELL 843-607-5145, MIKE.JOHNSON@CHARLESTON.K12.SC.US, AND RONNIE SAVAGE, CCSD IRRIGATION SPECIALIST, CELL 843-297-0624 RONALD.SAVAGE@CHARLESTON.K12.SC.US, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TO COORDINATE WORK TO OR NEAR EXISTING IRRIGATION LINES TO AVOID DAMAGE TO LINE DURING CONSTRUCTION.

CWS SANITARY SEWER DEMOLITION NOTES:

- ANY SERVICES THAT WILL BE ABANDONED OR CAPPED OFF FROM AN EXISTING OR PREVIOUS STRUCTURE (DURING ANY PHASE OF PROJECT, WHETHER PRE-PLANNED OR OTHERWISE) MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF CWS WASTEWATER COLLECTION DEPARTMENT.
- ABANDONED SERVICE CONNECTIONS SHALL BE PERMANENTLY PLUGGED AND INSPECTED BY CWS PRIOR TO BACKFILLING.
- THE OWNER/DEVELOPER OR APPOINTED CONTRACTOR PERFORMING THE WORK FOR THE OWNER/DEVELOPER SHALL TAKE APPROPRIATE MEASURES TO PROTECT THE CWS WASTEWATER COLLECTION SYSTEM FROM DAMAGE RESULTING FROM ITS OPERATIONS. NO CONSTRUCTION DEBRIS OR SURFACE RUNOFF SHALL BE DIRECTED TO THE WASTEWATER COLLECTION SYSTEM, EITHER DIRECTLY OR VIA SERVICE LATERALS. PRIVATE PLUMBING CONNECTIONS TO THE CWS SYSTEM THAT ARE PENDING RECONNECTIONS SHALL BE APPROPRIATELY CAPPED
- CWS WASTEWATER COLLECTION DEPARTMENT MUST BE NOTIFIED WHEN DEMOLITION COMMENCES. THE OWNER/DEVELOPER MAY BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING INFRASTRUCTURE OR CONSTRUCTION DEBRIS FOUND WITHIN THE SEWER SYSTEM AS A RESULT OF ACTIVITIES ASSOCIATED WITH THIS PROJECT WITHIN 100' OF THE DEMOLITION AREA.

CALL 811 BEFORE YOU DIG — 811 SAFE DIGGING PARTNER

NORTH

GRAPHIC SCALE
30 0 15 30
1 INCH = 30 FT

NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

S&W
ARCHITECTURE ENGINEERING INTERIORS
STEVENS & WILKINSON
1501 MAIN STREET, SUITE 730
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BROWNSTONE GROUP
4000 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	9/28/2020	ADDENDUM 2- DRB/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

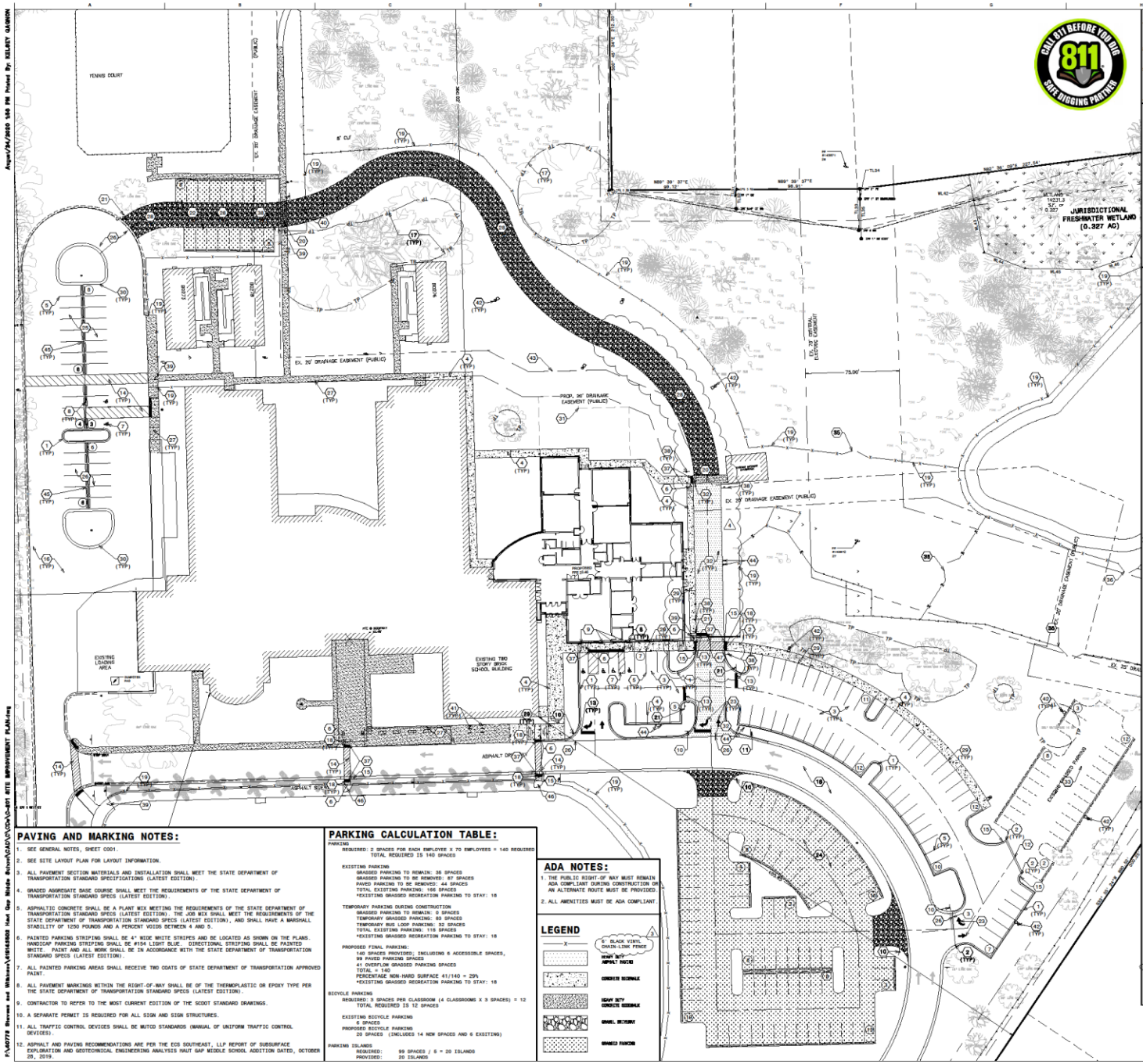
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

PHASE 2 POST CONSTRUCTION DEMO PLAN

C103

August/24/2020 1:57 PM Printed By: KELSEY GAUNON
F:\4077\8 Stevens and Wilkinson\Vis\Vis145800 Haut Gap Middle #sinn\CAD\CV\CDs\D-101 EXISTING CONDITIONS AND DEMO PLAN.dwg



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4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

SITE DATA

TOTAL SITE AREA	= ± 1,034,880 SF	= 23.76 ACRES
PRE-DEVELOPMENT IMPERVIOUS	= ± 269,617 SF	= 5.96 ACRES
POST-DEVELOPMENT PERVIOUS	= ± 331,927 SF	= 7.62 ACRES
BUILDING IMPERVIOUS	= ± 67,347 SF	= 1.55 ACRES
% OF THE LOT OCCUPIED BY THE BUILDING = 1.55 AC / 23.75 AC = 6%		

SITE ADDRESS: 1861 BOHICKET ROAD

PARCEL #: 279-00-00-160

CURRENT ZONING: SR-1 (SCHOOL OVERLAY)

ADJACENT ROAD SPEED LIMIT: BOHICKET ROAD 45 MPH

SITE IMPROVEMENT KEY NOTES:

1. 18" CONCRETE CURB AND GUTTER. SEE DETAIL SHEET C220.
2. ENTRY 18" CONCRETE CURB AND GUTTER WITH TAPERED END SECTION. SEE DETAIL SHEET C220.
3. STANDARD DUTY ASPHALT PAVEMENT SECTION. SEE DETAIL SHEET C220.
4. CONCRETE SIDEWALK, WIDTH PER PLAN. SIDEWALK WITH VEHICULAR ACCESS AT CROSSING TO OUTDOOR CLASSROOM TO BE HEAVY DUTY CONCRETE. SEE SHEETS C220.
5. 4" WHITE PAINTED PAVEMENT STRIPING. SEE DETAIL SHEET C221.
6. H.C. ACCESSIBLE RAMP WITH DETECTABLE WARNING STRIP. SEE DETAIL SHEET C220.
7. H.C. ACCESSIBLE PARKING SPACE/ACCESS AISLE. (PAINTED BLUE SEE DETAIL SHEET C221)
8. H.C. ACCESSIBLE VAN PARKING SIGNAGE. SEE DETAIL SHEET C221.
9. H.C. ACCESSIBLE PARKING SIGNAGE MOUNTED TO BUILDING.
10. "STOP" SIGN (R1-1) AND "ONE WAY" SIGN (R6-1R). SEE DETAILS ON SHEET C221.
11. "DO NOT ENTER" SIGN (R5-1). SEE DETAIL ON SHEET C221.
12. 12" FLUSH CONCRETE CURB. SEE DETAIL ON SHEET C220.
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14. CROSSWALK. SEE DETAIL SHEET C221.
15. TAPER CURB OVER 3' TO ASPHALT GRADE. SEE DETAIL SHEET C220.
16. EXISTING PAVEMENT TO REMAIN.
17. TREE PROTECTION BARRICADE. SEE DETAIL SHEET C220.
18. FLUSH MOUNT SIDEWALK WITH DETECTABLE WARNING STRIP. SEE DETAIL SHEET C220.
19. 6' BLACK VINYL CHAIN-LINK FENCE
20. HEAVY DUTY CONCRETE PAVEMENT FOR SIDEWALK AT DRIVEWAY CROSSINGS. SEE DETAIL SHEET C220.
21. "STOP" SIGN (R1-1). SEE DETAIL ON SHEET C221.
22. GRASSED PARKING AREA WITH WHEEL STOPS. GRASSED PARKING SPACES NOT TO BE STRIPED AND ARE DESIGNATED WITH WHEEL STOPS. SEE WHEEL STOPS DETAIL ON SHEET C220. REUSE WHEEL STOPS FROM EXISTING GRASSED PARKING WHERE POSSIBLE.
23. PAVEMENT MARKINGS. SEE DETAILS ON SHEET C221.
24. TEMPORARY GRASSED PARKING DURING CONSTRUCTION WITH WHEEL STOPS. REUSE WHEEL STOPS FROM EXISTING GRASSED PARKING WHERE POSSIBLE.
25. PROPOSED STAFF PARKING. CONTRACTOR TO MODIFY EXISTING BUS LOOP ISLANDS AND RE-STRIPE FOR VEHICLE PARKING. CONSTRUCTION WITHIN BUS LOOP AREA MUST BE COORDINATED DURING WINTER OR SUMMER BREAK.
26. EXISTING PAVEMENT TO REMAIN SEE PAVEMENT TRANSITION DETAIL, SHEET C220.
27. EXISTING SIDEWALK TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY SIDEWALK DAMAGED DURING CONSTRUCTION.
28. GRAVEL FIRE LANE ACCESS. SEE DETAIL ON SHEET C222.
29. MONOLITHIC SIDEWALK.
30. 18" MOUNTABLE CURB & GUTTER. SEE DETAIL ON SHEET C220.
31. PROPOSED FUTURE BUILDING EXPANSION AREA.
32. HEAVY DUTY ASPHALT PAVEMENT SECTION. SEE DETAIL SHEET C220.
33. EXISTING PARKING AREA TO BE USED FOR TEMPORARY LAYDOWN/STAGING AREA DURING CONSTRUCTION. CONTRACTOR TO RETURN AREA TO EXISTING CONDITION AT CONSTRUCTION COMPLETION.
34. REMOVE AND REPLACE APPROXIMATELY 20 SY OF EXISTING ASPHALT PAVING AND 10 LF OF CURB AND GUTTER.
35. EXISTING 20' DOUBLE GATE TO BE USED FOR POND CONSTRUCTION ACCESS.
36. PROPOSED 16' DOUBLE GATE FOR POND MAINTENANCE ACCESS.
37. 24" WIDE DETECTABLE WARNING SURFACE SHALL BE RAISED TRUNCATED DOMES BY ADA SOLUTIONS, OR APPROVED EQUAL. GREY IN COLOR, CAST IN PLACE TILE. USE DETECTABLE SURFACE WHEREVER LANDING IS FLUSH WITH ASPHALT. SURFACE SHALL MEET ALL ADAAG REQUIREMENTS. SEE DETAIL SHEET C220.
38. "PEDESTRIAN TRAFFIC" SIGN (W11-2). SEE DETAIL SHEET C221.
39. SINGLE SWING GATE WITH PANIC BAR.
40. 24' DOUBLE SWING GATE.
41. BIKE RACK; CONTRACTOR TO INSTALL PER MANUFACTURES SPECIFICATIONS. SEE DETAIL SHEET C222.
42. PROPOSED LIGHT POLE LOCATION. SEE ELECTRICAL PLANS FOR DETAILS.
43. PROPOSED STORM DRAIN EASEMENT.
44. CONCRETE BOLLARD. SEE DETAIL C222.
45. WHEEL STOPS IN BUS LOOP PARKING AREA. SEE WHEEL STOPS DETAIL ON SHEET C220. REUSE WHEEL STOPS FROM EXISTING GRASSED PARKING WHERE POSSIBLE.
46. 6' MANUAL SLIDING GATE
47. 24' MANUAL ROLLING GATE.

PAVING AND MARKING NOTES:

1. SEE GENERAL NOTES, SHEET C001.
2. SEE SITE LAYOUT PLAN FOR LAYOUT INFORMATION.
3. ALL PAVEMENT SECTION MATERIALS AND INSTALLATION SHALL MEET THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION).
4. GRADED AGGREGATE BASE COURSE SHALL MEET THE REQUIREMENTS OF THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECS (LATEST EDITION).
5. ASPHALTIC CONCRETE SHALL BE A PLANT MIX MEETING THE REQUIREMENTS OF THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECS (LATEST EDITION). THE JOB MIX SHALL MEET THE REQUIREMENTS OF THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECS (LATEST EDITION), AND SHALL HAVE A MARSHALL STABILITY OF 1250 POUNDS AND A PERCENT VOIDS BETWEEN 4 AND 5.
6. PAINTED PARKING STRIPING SHALL BE 4" WIDE WHITE STRIPES AND BE LOCATED AS SHOWN ON THE PLANS. HANDICAP PARKING STRIPING SHALL BE #154 LIGHT BLUE. DIRECTIONAL STRIPING SHALL BE PAINTED WHITE. PAINT AND ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECS (LATEST EDITION).
7. ALL PAINTED PARKING AREAS SHALL RECEIVE TWO COATS OF STATE DEPARTMENT OF TRANSPORTATION APPROVED PAINT.
8. ALL PAVEMENT MARKINGS WITHIN THE RIGHT-OF-WAY SHALL BE OF THE THERMOPLASTIC OR EPOXY TYPE PER THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECS (LATEST EDITION).
9. CONTRACTOR TO REFER TO THE MOST CURRENT EDITION OF THE SCDOT STANDARD DRAWINGS.
10. A SEPARATE PERMIT IS REQUIRED FOR ALL SIGN AND SIGN STRUCTURES.
11. ALL TRAFFIC CONTROL DEVICES SHALL BE MUTCD STANDARDS (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES).
12. ASPHALT AND PAVING RECOMMENDATIONS ARE PER THE ECS SOUTHEAST, LLP REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING ANALYSIS HAUT GAP MIDDLE SCHOOL ADDITION DATED, OCTOBER 28, 2019.

PARKING CALCULATION TABLE:

PARKING
- REQUIRED: 2 SPACES FOR EACH EMPLOYEE X 70 EMPLOYEES = 140 REQUIRED
  - TOTAL REQUIRED IS 140 SPACES
- EXISTING PARKING
  - GRASSED PARKING TO REMAIN: 36 SPACES
  - GRASSED PARKING TO BE REMOVED: 87 SPACES
  - PAVED PARKING TO BE REMOVED: 44 SPACES
  - TOTAL EXISTING PARKING: 166 SPACES
  - *EXISTING GRASSED RECREATION PARKING TO STAY: 18
- TEMPORARY PARKING DURING CONSTRUCTION
  - GRASSED PARKING TO REMAIN: 0 SPACES
  - TEMPORARY GRASSED PARKING: 83 SPACES
  - TEMPORARY BUS LOOP PARKING: 32 SPACES
  - TOTAL EXISTING PARKING: 115 SPACES
  - *EXISTING GRASSED RECREATION PARKING TO STAY: 18
- PROPOSED FINAL PARKING:
  - 140 SPACES PROVIDED; INCLUDING 6 ACCESSIBLE SPACES, 99 PAVED PARKING SPACES
  - 41 OVERFLOW GRASSED PARKING SPACES
  - TOTAL = 140
  - PERCENTAGE NON-HARD SURFACE 41/140 = 29%
  - *EXISTING GRASSED RECREATION PARKING TO STAY: 18

BICYCLE PARKING
- REQUIRED: 9 SPACES PER CLASSROOM (4 CLASSROOMS X 3 SPACES) = 12
  - TOTAL REQUIRED IS 12 SPACES
- EXISTING BICYCLE PARKING
  - 6 SPACES
- PROPOSED BICYCLE PARKING
  - 20 SPACES (INCLUDES 14 NEW SPACES AND 6 EXISTING)

PARKING ISLANDS
- REQUIRED: 99 SPACES / 5 = 20 ISLANDS
- PROVIDED: 20 ISLANDS

ADA NOTES:

1. THE PUBLIC RIGHT-OF WAY MUST REMAIN ADA COMPLIANT DURING CONSTRUCTION OR AN ALTERNATE ROUTE MUST BE PROVIDED.
2. ALL AMENITIES MUST BE ADA COMPLIANT.

LEGEND

- 6' BLACK VINYL CHAIN-LINK FENCE
- HEAVY DUTY ASPHALT PAVING
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE SIDEWALK
- GRAVEL ROADWAY
- GRASSED PARKING

GRAPHIC SCALE: NORTH 30 0 15 30 — 1 INCH = 30 FT

NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

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4000 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

No. 23360 8/24/20

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	8/26/2020	ADDENDUM 2- CRB/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

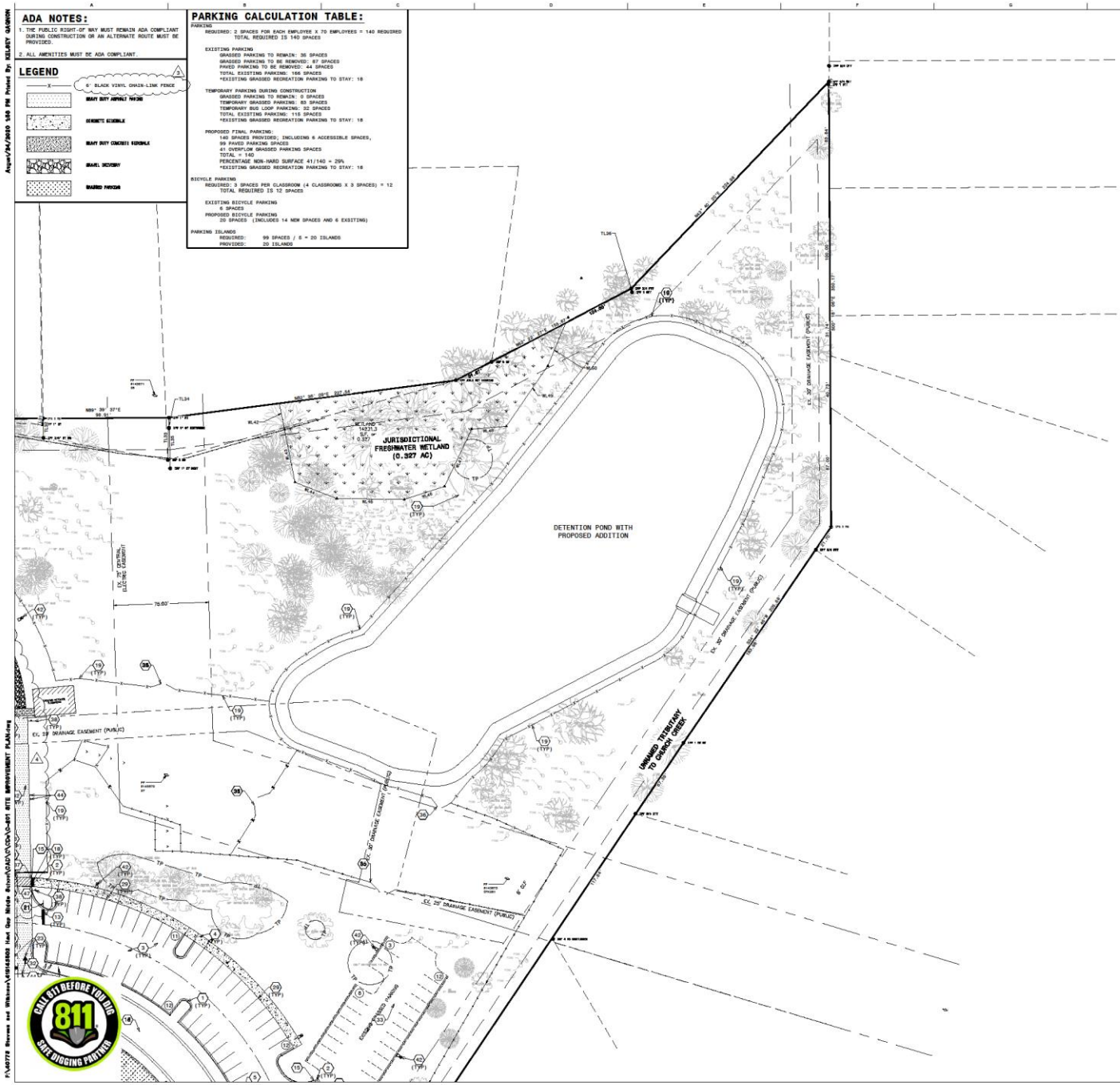
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1861 BOHICKET RD, JOHNS ISLAND, SC 29455

SITE IMPROVEMENT PLAN

C201



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SITE ADDRESS 1861 BOHICKET ROAD

PARCEL # 279-00-00-160

CURRENT ZONING SR-1 (SCHOOL OVERLAY)

ADJACENT ROAD SPEED LIMIT: BOHICKET ROAD 45 MPH

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18. FLUSH MOUNT SIDEWALK WITH DETECTABLE WARNING STRIP. SEE DETAIL SHEET C220.
19. 6' BLACK VINYL CHAIN-LINK FENCE
20. HEAVY DUTY CONCRETE PAVEMENT FOR SIDEWALK AT DRIVEWAY CROSSINGS. SEE DETAIL SHEET C220.
21. "STOP" SIGN (R1-1). SEE DETAIL ON SHEET C221.
22. GRASSED PARKING AREA WITH WHEEL STOPS. GRASSED PARKING SPACES NOT TO BE STRIPED AND ARE DESIGNATED WITH WHEEL STOPS. SEE WHEEL STOPS DETAIL ON SHEET C220. REUSE WHEEL STOPS FROM EXISTING GRASSED PARKING WHERE POSSIBLE.
23. PAVEMENT MARKINGS. SEE DETAILS ON SHEET C221.
24. TEMPORARY GRASSED PARKING DURING CONSTRUCTION WITH WHEEL STOPS. REUSE WHEEL STOPS FROM EXISTING GRASSED PARKING WHERE POSSIBLE.
25. PROPOSED STAFF PARKING. CONTRACTOR TO MODIFY EXISTING BUS LOOP ISLANDS AND RE-STRIPE FOR VEHICLE PARKING. CONSTRUCTION WITHIN BUS LOOP AREA MUST BE COORDINATED DURING WINTER OR SUMMER BREAK.
26. EXISTING PAVEMENT TO REMAIN SEE PAVEMENT TRANSITION DETAIL, SHEET C220.
27. EXISTING SIDEWALK TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY SIDEWALK DAMAGED DURING CONSTRUCTION.
28. GRAVEL FIRE LANE ACCESS.
29. MONOLITHIC SIDEWALK.
30. 18" MOUNTABLE CURB & GUTTER. SEE DETAIL ON SHEET C220.
31. PROPOSED FUTURE BUILDING EXPANSION AREA.
32. HEAVY DUTY ASPHALT PAVEMENT SECTION. SEE DETAIL SHEET C220.
33. EXISTING PARKING AREA TO BE USED FOR TEMPORARY LAYDOWN/STAGING AREA DURING CONSTRUCTION. CONTRACTOR TO RETURN AREA TO EXISTING CONDITION AT CONSTRUCTION COMPLETION.
34. REMOVE AND REPLACE APPROXIMATELY 20 SY OF EXISTING ASPHALT PAVING AND 10 LF OF CURB AND GUTTER.
35. EXISTING 20' DOUBLE GATE TO BE USED FOR POND CONSTRUCTION ACCESS.
36. PROPOSED 16' DOUBLE GATE FOR POND MAINTENANCE ACCESS.
37. 24" WIDE DETECTABLE WARNING SURFACE SHALL BE RAISED TRUNCATED DOMES BY ADA SOLUTIONS, OR APPROVED EQUAL. GREY IN COLOR, CAST IN PLACE TILE. USE DETECTABLE SURFACE WHEREVER LANDING IS FLUSH WITH ASPHALT. SURFACE SHALL MEET ALL ADAAG REQUIREMENTS. SEE DETAIL SHEET C220.
38. "PEDESTRIAN TRAFFIC" SIGN (W11-2). SEE DETAIL SHEET C221.
39. SINGLE SWING GATE WITH PANIC BAR.
40. DOUBLE SWING GATE.
41. BIKE RACK; CONTRACTOR TO INSTALL PER MANUFACTURES SPECIFICATIONS. SEE DETAIL SHEET C222.
42. PROPOSED LIGHT POLE LOCATION. SEE ELECTRICAL PLANS FOR DETAILS.
43. PROPOSED STORM DRAIN EASEMENT.
44. CONCRETE BOLLARD. SEE DETAIL C222.
45. WHEEL STOPS IN BUS LOOP PARKING AREA. SEE WHEEL STOPS DETAIL ON SHEET C220. REUSE WHEEL STOPS FROM EXISTING GRASSED PARKING WHERE POSSIBLE.
46. 6' MANUAL SLIDING GATE
47. MANUAL ROLLING GATE.

GRAPHIC SCALE
NORTH 30 0 15 30
1 INCH = 30 FT
NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

S&W
ARCHITECTURE ENGINEERING INTERIORS
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COLUMBIA, SC 29201
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WWW.STEVENS-WILKINSON.COM

RED IRON ARCHITECTS
4891 DURANT AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405

HUSSEY GAY BELL
Established 1958
Hussey, Gay, Bell & DeYoung, Inc.
Consulting Engineers of SC
T 843.849.7500

BROWNSTONE
BROWNSTONE GROUP
4000 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	8/26/2020	ADDENDUM 2- DRB/TRC COMMENT REVISIONS

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19065.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

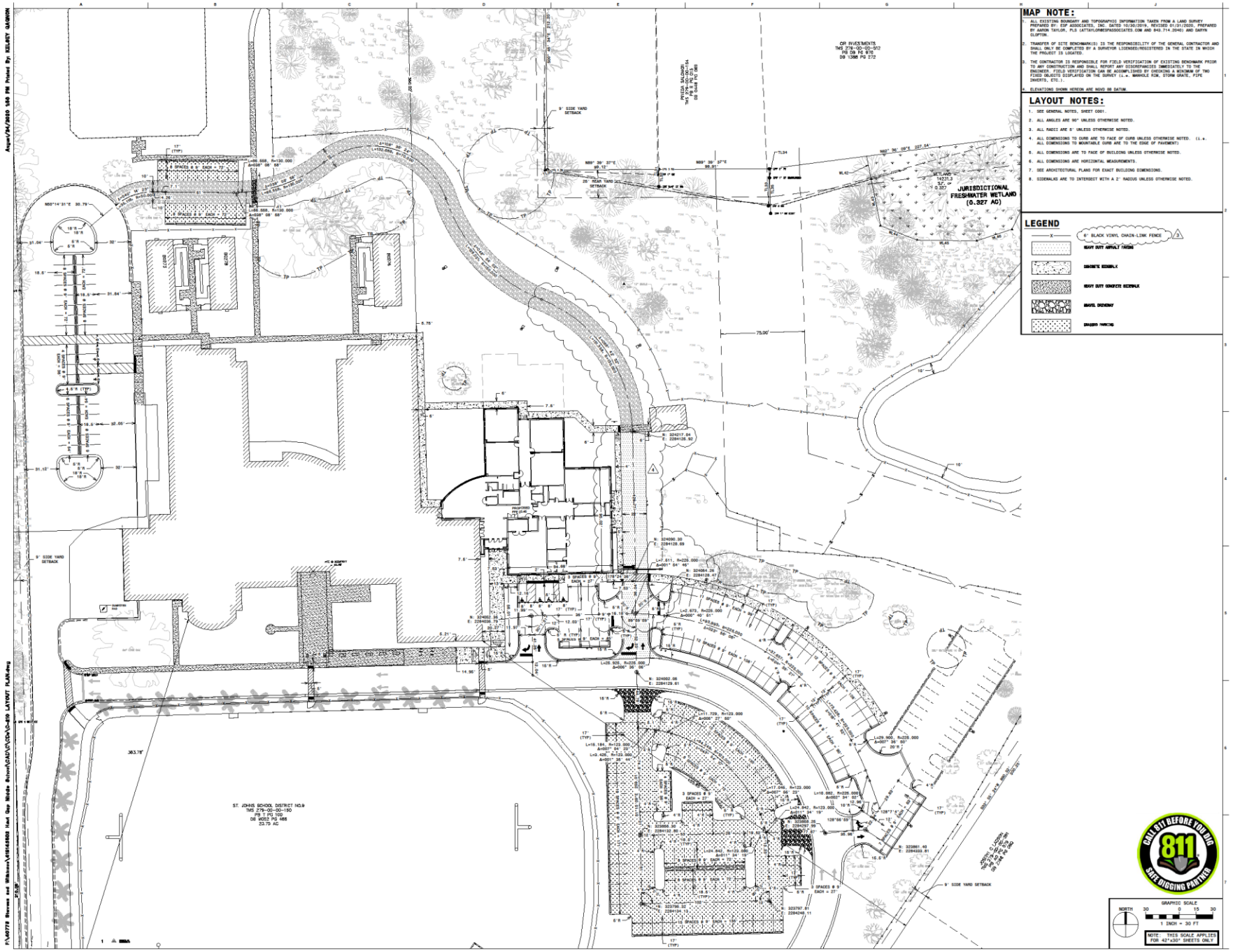
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1861 BOHICKET RD, JOHNS ISLAND, SC 29455

SITE IMPROVEMENT PLAN

C202



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CONSTRUCTION DOCUMENTS

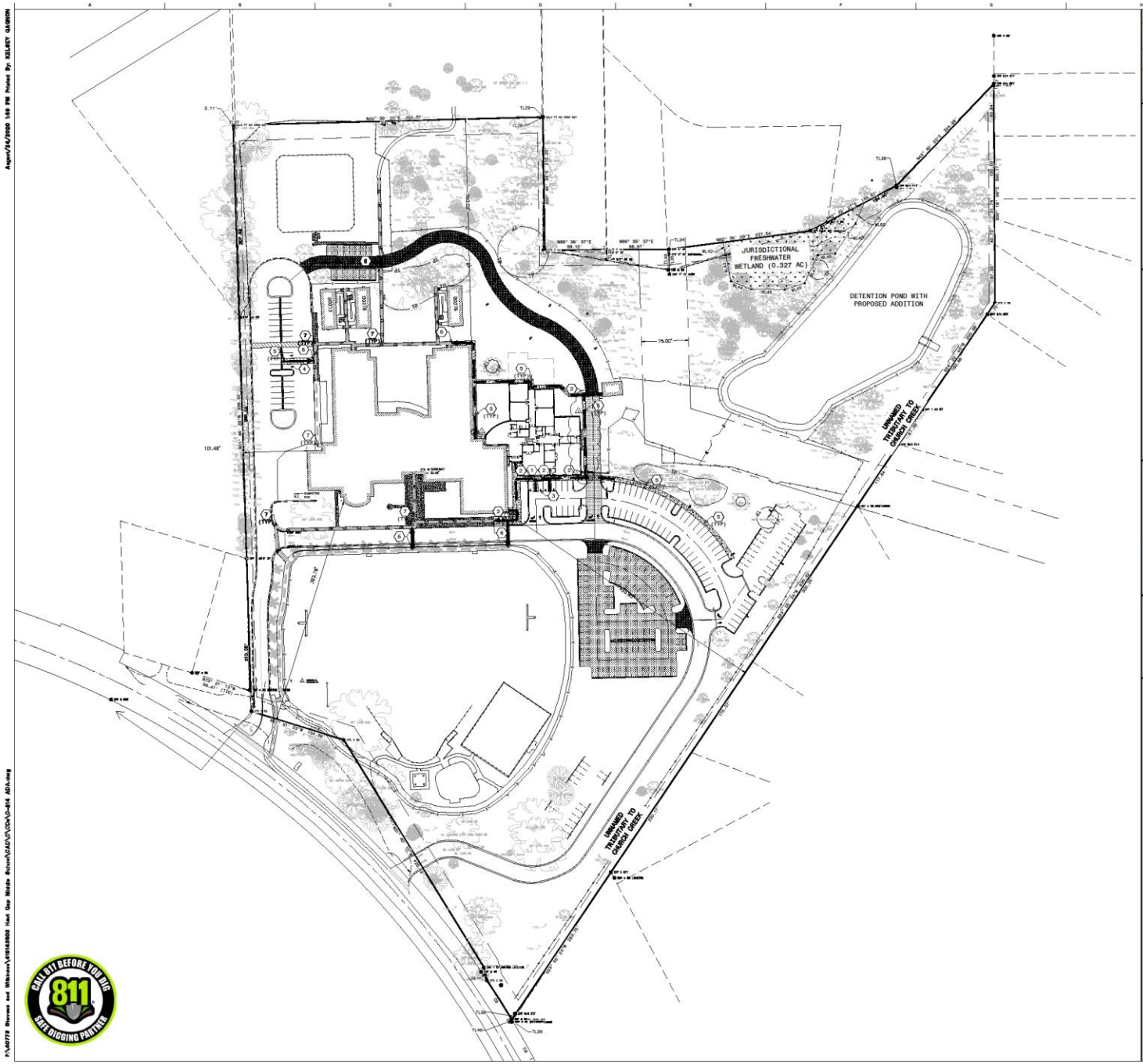
Charleston County SCHOOL DISTRICT
everything to our success

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

LAYOUT PLAN

C210



MAP NOTE:

1. ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: ESP ASSOCIATES, INC. DATED 10/30/2019, REVISED 01/31/2020, PREPARED BY AARON TAYLOR, PLS (ATTAYLOR@ESPASSOCIATES.COM AND 843.714.3046) AND DARYN CLOPTON.
2. TRANSFER OF SITE BENCHMARK(S) IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL ONLY BE COMPLETED BY A SURVEYOR LICENSED/REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
2. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING BENCHMARK PRIOR TO ANY CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. FIELD VERIFICATION CAN BE ACCOMPLISHED BY CHECKING A MINIMUM OF TWO FIXED OBJECTS DISPLAYED ON THE SURVEY (i.e. MANHOLE RIM, STORM GRATE, PIPE INVERTS, ETC.).
4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

ACCESSIBILITY NOTES:

1. ALL WORK SHALL MEET THE GUIDELINES OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG), LATEST EDITION, AND ANY ADDITIONAL STATE OR LOCAL REQUIREMENTS REGARDING ACCESSIBILITY.
2. ALL SIDEWALK ON THIS PLAN REPRESENT ACCESSIBLE ROUTES AND SHALL BE CONSTRUCTED TO BE ADA COMPLIANT.
3. ALL AMENITIES ON THIS PLAN MUST BE ADA COMPLIANT PER ABOVE GUIDELINES.
4. THERE SHALL BE A 5' "LEVEL" LANDING AREA AT THE EXTERIOR OF ALL DOORWAYS FOR THIS PURPOSE, "LEVEL" SHALL MEAN THE SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONALS, SHALL NOT EXCEED 1:60 (2.0%).
5. CONTRACTOR SHALL ENSURE THAT THE DOORWAY THRESHOLDS MEET ACCESSIBILITY REQUIREMENTS.
6. LONGITUDINAL (RUNNING) SLOPES ALONG THE ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20 (5.0%).
7. CROSS SLOPES ALONG THE ACCESSIBLE ROUTE SHALL NOT EXCEED 1:60 (2.0%).
8. SLOPES IN ANY DIRECTION, INCLUDING THE DIAGONALS, WITHIN THE ACCESSIBLE PARKING SPACES OR ACCESS AISLES SHALL NOT EXCEED 1:60 (2.0%).
9. ALL EXTERIOR CONCRETE SURFACES SHALL RECEIVE A HEAVY BROOM FINISH FOR PEDESTRIAN SLIP-RESISTANCE.

LEGEND

- 6' BLACK VINYL CHAIN-LINK FENCE (A)
- HEAVY DUTY ASPHALT PAVING
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE SIDEWALK
- GRAVEL DRIVEWAY
- GRASSED PARKING
- EXISTING ADA ACCESSIBLE ROUTE
- PROPOSED ADA ACCESSIBLE ROUTE

ADA COORDINATION KEY NOTES: (X)

1. CONCRETE SIDEWALK FLUSH WITH ASPHALT PAVEMENT.
2. ADA COMPLIANT ACCESSIBLE PEDESTRIAN CURB RAMP.
3. ADA COMPLIANT VAN ACCESSIBLE PARKING (4 SPACES).
4. ADA COMPLIANT VAN ACCESSIBLE PARKING (2 SPACES)
5. PROPOSED ADA COMPLIANT ACCESSIBLE PEDESTRIAN PATH (TYPICAL).
6. CONNECTION OF PROPOSED ADA COMPLIANT ACCESSIBLE PEDESTRIAN PATH WITH EXISTING ASSUMED ADA COMPLIANT ACCESSIBLE PEDESTRIAN PATH.
7. EXISTING ASSUMED ADA COMPLIANT ACCESSIBLE PEDESTRIAN PATH. ADA COMPLIANCE NOT FIELD VERIFIED. SLOPES, GRADES, ETC. ALONG EXISTING ASSUMED ADA COMPLIANT ACCESSIBLE PEDESTRIAN PATH WERE NOT VERIFIED FOR COMPLIANCE.

PROPOSED USE: INSTITUTIONAL
PROJECT DATA: NEW ONE STORY SCHOOL ADDITION.
(EXISTING TWO STORY SCHOOL ONSITE)

SF OF BUILDING = ± 50,919 SF EXISTING FIRST FLOOR
= ± 25,807 SF EXISTING SECOND FLOOR
= ± 14,254 SF ADDITION FIRST FLOOR
= ± 90,980 SF TOTAL

TOTAL PARKING SPACES PROVIDED: 140 SPACES
ADA PARKING PROVIDED: 6 SPACES

GRAPHIC SCALE
NORTH 60 0 30 60
1 INCH = 60 FT
NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

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8/24/20
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CONSTRUCTION DOCUMENTS

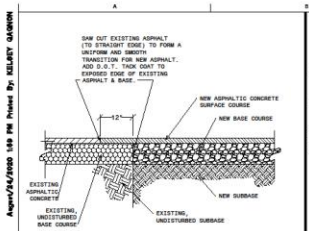
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

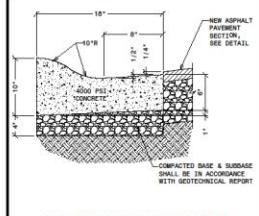
1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

ADA COORDINATION PLAN

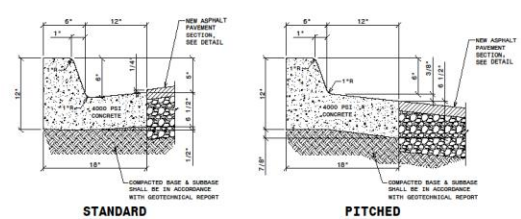
C214



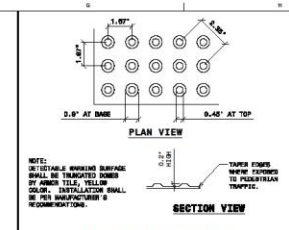
PAVEMENT TRANSITION DETAIL



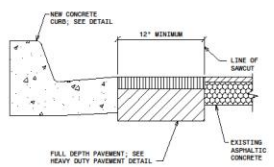
18" MOUNTABLE CONCRETE CURB AND GUTTER



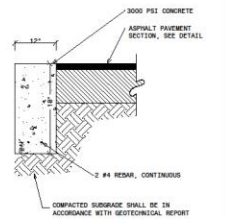
18" NON-MOUNTABLE CONCRETE CURB & GUTTER



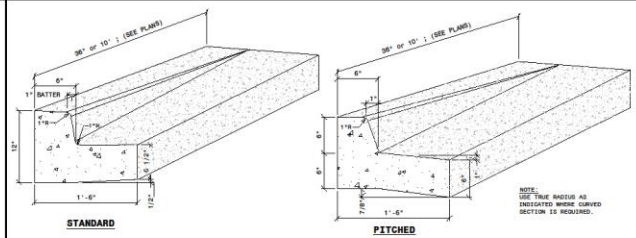
DETECTABLE WARNING SURFACE DETAIL



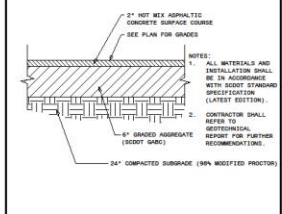
NEW CURB TO EXISTING PAVEMENT DETAIL



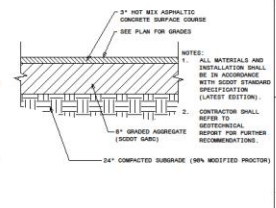
12" FLUSH CONCRETE CURB



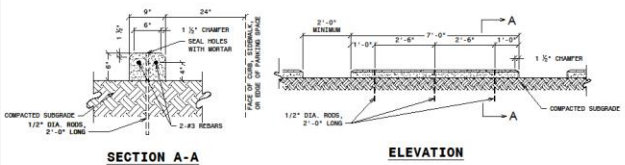
18" CONCRETE CURB & GUTTER WITH TAPERED END SECTION



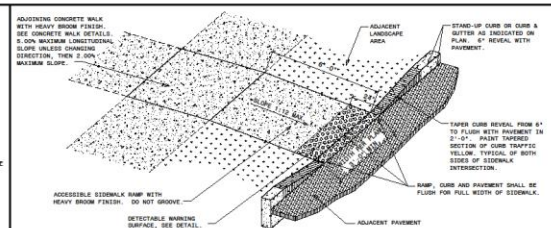
STANDARD-DUTY ASPHALT PAVEMENT SECTION



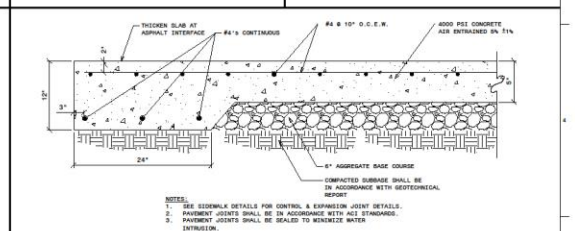
HEAVY-DUTY ASPHALT PAVEMENT SECTION



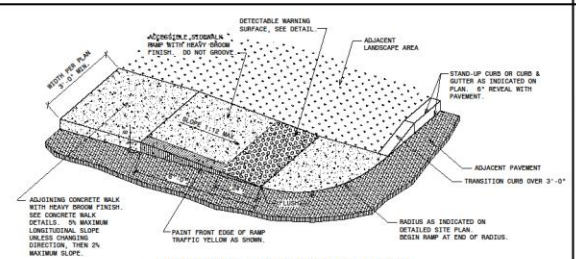
CONCRETE WHEEL STOP DETAIL



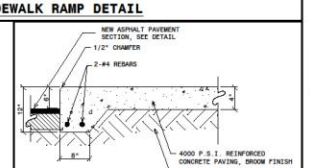
ACCESSIBLE SIDEWALK RAMP DETAIL



HEAVY DUTY CONCRETE PAVEMENT DETAIL (SIDEWALK AT DRIVEWAY CROSSINGS)

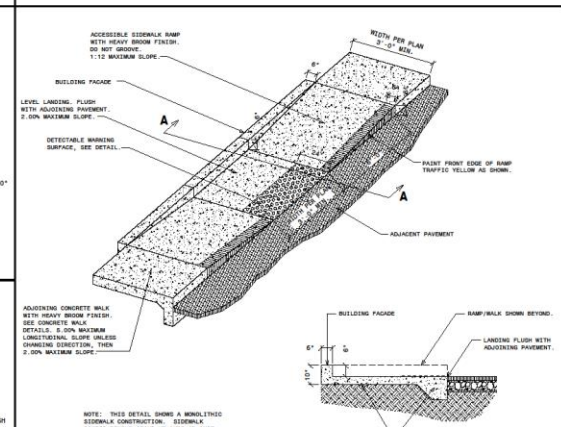


ACCESSIBLE SIDEWALK RAMP DETAIL



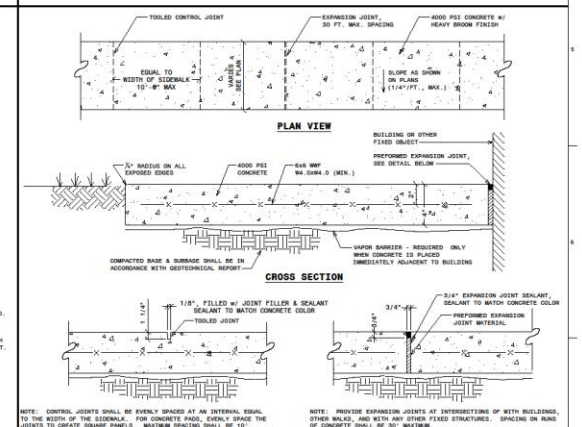
NOTE:
PROVIDE EXPANSION JOINTS AT INTERSECTIONS OF BUILDINGS, WALKS, AND WITH ANY OTHER FIXED STRUCTURES. SEE OTHER SIDEWALK DETAILS FOR CONTROL & EXPANSION JOINTS.

MONOLITHIC SIDEWALK DETAIL



SECTION A-A

ACCESSIBLE SIDEWALK RAMP DETAIL



CONTROL JOINT (CJ)

PREFORMED EXPANSION JOINT (PEJ)

ACCESSIBILITY NOTES:
1. ALL CONCRETE WALKS ONSITE SHALL CONFORM TO THE STANDARD ACCESSIBILITY NOTES LISTED ON THE SITE GRADING PLAN, SHEET C301.
2. CONTRACTOR SHALL NOTE LONGITUDINAL (RUNNING) SLOPES ALONG AN ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20 (5.0%).
3. CROSS SLOPES ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1:50 (2.00%).

CONCRETE WALK DETAIL

S&W
ARCHITECTURE
ENGINEERING
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STEVENS & WILKINSON
1501 MAIN STREET, SUITE 730
COLUMBIA, SC 29201
P 803.765.0320 F 803.254.6209
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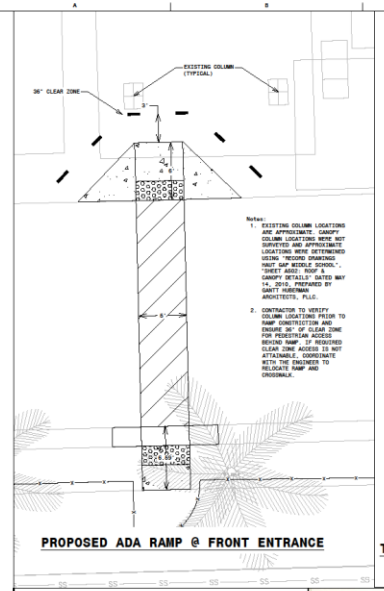
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

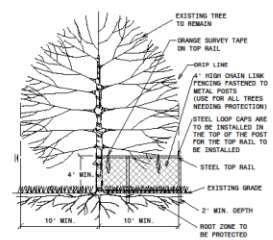
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SITE DETAILS

C220



PROPOSED ADA RAMP @ FRONT ENTRANCE



NOTES:
1. MAINTAIN TREE BARRICADES AT ALL TIMES.
2. TREE BARRICADES SHALL BE ERECTED AT A MINIMUM DISTANCE FROM THE BASE OF THE PROTECTED TREES AND/OR GRAND TREES ACCORDING TO THE FOLLOWING STANDARDS:
   A) FOR PROTECTED TREES (23") DBH OR LESS, PROTECTIVE BARRICADES SHALL BE PLACED A MINIMUM DISTANCE OF TEN FEET FROM THE BASE OF EACH PROTECTED TREE.
   B) FOR PROTECTED TREES GREATER THAN (23") DBH AND GRAND TREES, PROTECTIVE BARRICADES SHALL PROVIDE A DIAMETER OF PROTECTION AROUND THE TREE EQUAL IN FEET TO THE DIAMETER BREAST HEIGHT OF THE TREE (EX. A 24" DIAMETER TREE WOULD REQUIRE A 24 FOOT DIA. PROTECTIVE BARRICADE).
3. ALL TREE PROTECTION BARRICADES MUST HAVE TWO (2) HORIZONTAL CROSS RAILS.
4. ALL TREE PROTECTION FENCING MUST MEET THE CITY OF CHARLESTON'S TREE ORDINANCE REQUIREMENTS.
5. ALL GRAND TREES ADJACENT TO PUBLIC RIGHT-OF-WAY ARE TO BE BARRICADED IN CHAIN-LINK FENCING.
6. ALL GRAND TREES IMPACTED ARE TO BE TREATED BY A CERTIFIED ARBORIST.

CITY OF CHARLESTON
TREE PROTECTION BARRICADE DETAIL

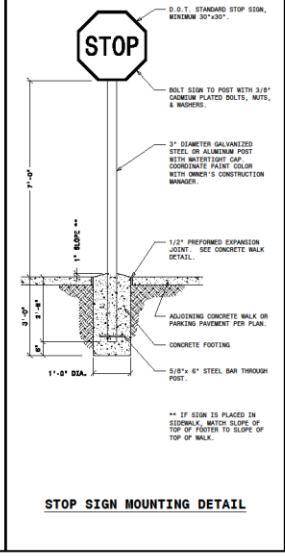
30" X 30"
R1-1
"STOP" SIGN

30" X 30"
R5-1
"DO NOT ENTER" SIGN

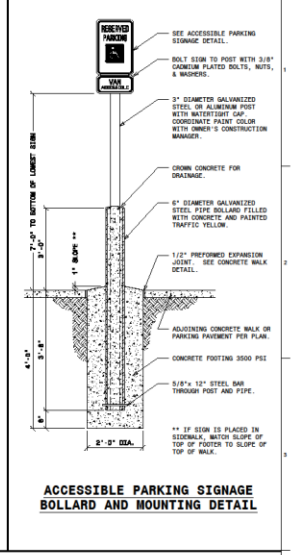
36" X 12"
R6-1R
"ONE WAY" (R) SIGN

30" X 30"
MUTCD W11-2
"PEDESTRIAN TRAFFIC" SIGN

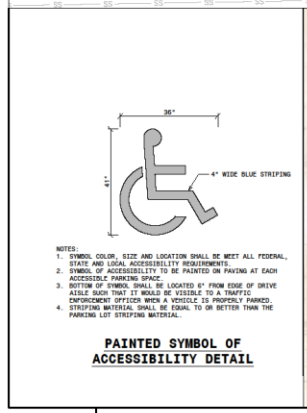
SITE SIGNAGE



STOP SIGN MOUNTING DETAIL

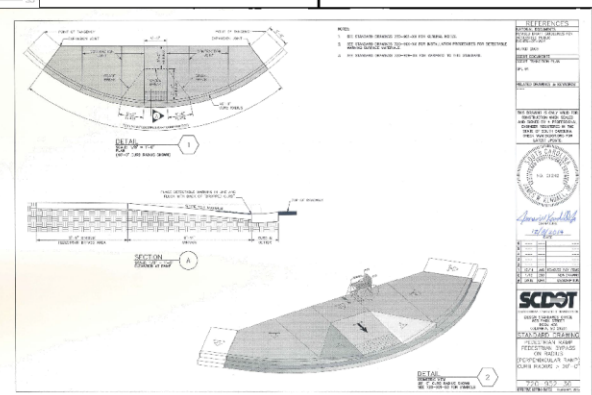


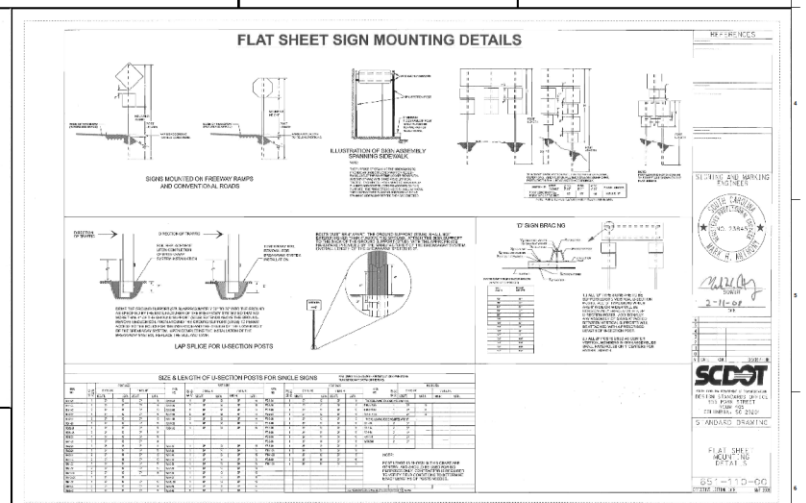
ACCESSIBLE PARKING SIGNAGE
BOLLARD AND MOUNTING DETAIL

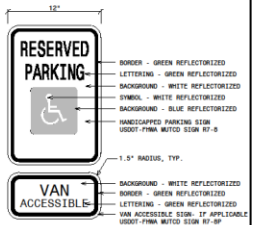


NOTES:
1. SYMBOL COLOR, SIZE AND LOCATION SHALL BE MEET ALL FEDERAL, STATE AND LOCAL ACCESSIBILITY REQUIREMENTS.
2. SYMBOL OF ACCESSIBILITY TO BE PAINTED ON PAVING AT EACH ACCESSIBLE PARKING SPACE.
3. BOTTOM OF SYMBOL SHALL BE LOCATED 6' FROM EDGE OF DRIVE AISLE SUCH THAT IT WOULD BE VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED.
4. STRIPING MATERIAL SHALL BE EQUAL TO OR BETTER THAN THE PARKING LOT STRIPING MATERIAL.

PAINTED SYMBOL OF
ACCESSIBILITY DETAIL

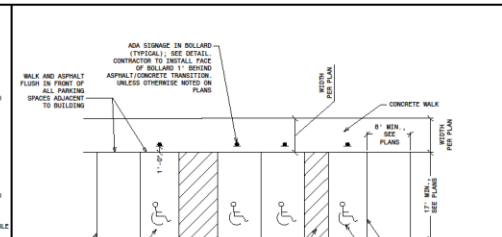






NOTES:
1. SIGNS AND MOUNTING HEIGHT / LOCATION SHALL BE MEET ALL FEDERAL, STATE AND LOCAL ACCESSIBILITY REQUIREMENTS.
2. PLACE "VAN ACCESSIBLE" SIGN IN FRONT OF VAN ACCESSIBLE SPACES ONLY.
3. WHEN SPACE IS ADJACENT TO BUILDING, SIGN MAY BE MOUNTED TO BUILDING. THE BOTTOM OF LOWEST SIGNS MUST BE A MINIMUM 5' ABOVE FFE OR GROUND SURFACE PER ADA REGULATIONS.
4. ALL SIGNS SHALL BE 0.080" THICK ALUMINUM.

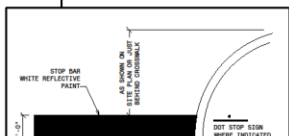
ACCESSIBLE PARKING
SIGNAGE DETAIL



PLAN VIEW

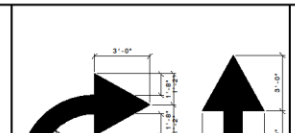
NOTES:
- SEE SITE DIMENSIONAL CONTROL PLAN FOR PARKING LAYOUT DIMENSIONS - ADA SPACES SHALL AS DIMENSIONED ON LAYOUT PLAN.
- THIS DETAIL IS INTENDED TO BE GENERAL. ACTUAL LAYOUT MAY VARY, REFER TO LAYOUT PLAN.

TYPICAL ACCESSIBLE PARKING AREA DETAIL



NOTES:
1. IF STOP BAR IS IN RIGHT-OF-WAY USE THERMOPLASTIC.
2. STOP BAR MUST BE LOCATED A MINIMUM 4' IN ADVANCED OF PEDESTRIAN CROSSINGS (MARKED OR UNMARKED).

STOP BAR GRAPHIC DETAIL



NOTES:
1. PAINT MARKINGS SOLID WITH WHITE PAINT.
2. ALL PAINT MARKINGS SHALL BE ODOT COMPLIANT THERMOPLASTIC PAINT.

DIRECTIONAL ARROWS DETAIL

CROSSWALK DETAIL

S&W
ARCHITECTURE
ENGINEERING
INTERIORS
STEVENS & WILKINSON
1501 MAIN STREET, SUITE 730
COLUMBIA, SC 29201
P 803.765.0320 F 803.254.6209
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BROWNSTONE
BROWNSTONE GROUP
4000 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
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■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SITE DETAILS

C221

CITY OF CHARLESTON
TRAFFIC & STREET NAME SIGN STANDARDS:

1. TRAFFIC SIGNS SHOULD BE DESIGNED AND PLACED IN ACCORDANCE WITH THE LATEST REVISION OF THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
2. NON-TRAFFIC RELATED SIGNS SHOULD BE APPROVED BY THE DEPARTMENT OF TRAFFIC AND TRANSPORTATION.
3. REGULATORY, WARNING, AND GUIDE SIGNS SHALL BE FABRICATED WITH ASTM INTERNATIONAL, FORMERLY AMERICAN SOCIETY FOR TESTING AND MATERIALS, TYPE III (HIGH INTENSITY) OR GREATER RETROREFLECTIVE SHEETING. UPON APPROVAL BY THE DEPARTMENT OF TRAFFIC AND TRANSPORTATION PARKING SIGNS AND NONTRAFFIC RELATED SIGNS MAY BE FABRICATED WITH ASTM TYPE I (ENGINEER GRADE) OR GREATER MATERIAL.
4. STREET NAME SIGNS SHALL BE FABRICATED USING EXTRUDED ALUMINUM BLADES 8" IN HEIGHT. THE MINIMUM LENGTH IS 24" WITH 48" AS THE MAXIMUM. THE ACTUAL LENGTH OF THE BLADE WILL BE DICTATED BY THE NUMBER OF LETTERS IN THE NAME.
5. THE STREET NAME COLOR SCHEME SHOULD BE WHITE ASTM TYPE III LETTERING ON A GREEN BACKGROUND.
6. THE STREET NAME LETTER FONT (OR TYPEFACE) SHOULD BE FHWA SERIES "C"; COMMONLY KNOWN AS HIGHWAY GOTHIC "E".
7. ALL STREET NAMES ARE TO CONSIST OF 6" UPPER-CASE LETTERS WITH 4.5" LOWER-CASE LETTERS. THE STREET DESIGNATIONS, E.G., ST, RD, DR, CIR, PKWY, AVE, BLVD ARE TO BE 50% SUPERSCRIPT.
8. THE STREET NAME, INCLUDING THE SUPERSCRIPT DESIGNATION, SHALL BE CENTERED VERTICALLY AND HORIZONTALLY ON THE BLADE.
9. THE SPACING FROM THE BLADE EDGE TO THE BEGINNING AND END OF THE STREET NAME, INCLUDING THE SUPERSCRIPT DESIGNATION, SHOULD BE A MINIMUM OF 2".
10. STREET NAME SIGNS SHOULD BE MOUNTED WITH A VERTICAL CLEARANCE OF AT LEAST 8' MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT. ALL OTHER SIGNS SHALL BE MOUNTED AT LEAST 7' FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT, EXCEPT WHEN A SUPPLEMENTAL PLAQUE OR SECONDARY SIGN IS PERMITTED.
11. IF A SUPPLEMENTAL PLAQUE OR SECONDARY SIGN IS PERMITTED TO BE MOUNTED ON THE SAME ASSEMBLY AS ANOTHER SIGN, THE MAJOR (MOST IMPORTANT) SIGN SHALL BE INSTALLED ABOVE THE SUPPLEMENTAL PLAQUE OR SECONDARY SIGN. THE MINIMUM HEIGHT FROM THE BOTTOM OF THE SUPPLEMENTAL PLAQUE OR SECONDARY SIGN TO THE NEAR EDGE OF THE PAVEMENT SHALL BE 6'.
12. THE MINIMUM LATERAL OFFSET FOR INSTALLED SIGNS SHOULD BE 2' MEASURED FROM THE NEAREST SIGN EDGE TO THE PAVEMENT EDGE (OR THE FACE OF CURB). A MINIMUM OFFSET OF 1' FROM THE FACE OF THE CURB MAY BE USED IN AREAS WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.
13. ALL TRAFFIC SIGN POSTS SHOULD BE SECURELY INSTALLED AT LEAST 2' IN THE GROUND. TRAFFIC SIGN POSTS SHOULD BE GREEN, 3 LBS/FT STEEL U-CHANNEL POSTS, BREAKAWAY, AND 12' IN LENGTH EXCEPT FOR STREET NAME SIGN POSTS.
14. ALL STREET NAME POSTS SHOULD BE ROUND, 2 3/8" OD, BREAKAWAY, ALUMINUM OR STEEL, AND AT LEAST 10'IN LENGTH.

ADDITIONAL TRAFFIC AND TRANSPORTATION NOTES:

1. SIGHT DISTANCE VISIBILITY AT ALL EXITS AND/OR INTERSECTIONS WILL BE MAINTAINED IN ACCORDANCE WITH SCDOT'S, ACCESS AND ROADSIDE MANAGEMENT STANDARDS MANUAL.
2. ALL TRAFFIC CONTROL DEVICES WILL BE TO MUTCD STANDARDS (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES).
3. IF TRAFFIC SIGNS OR MARKINGS WITHIN THE RIGHT-OF-WAY ARE IMPACTED, RELOCATION OF THESE ITEMS MUST BE COORDINATED WITH TRAFFIC AND TRANSPORTATION PRIOR TO CONSTRUCTION.
4. IF THE STREET IS BLOCKED OR IMPACTED DURING CONSTRUCTION AT ANY TIME FOR ANY REASON A STREET BLOCKING PERMIT WILL BE REQUIRED. COORDINATE WITH TRAFFIC AND TRANSPORTATION PRIOR TO CONSTRUCTION.
5. NO CONSTRUCTION PARKING OR STAGING WILL BE PERMITTED WITHIN THE RIGHT-OF-WAY WITHOUT PRIOR AUTHORIZATION BY TRAFFIC AND TRANSPORTATION.
6. LANE CLOSURES OF ANY TYPE OR DURATION WITHIN THE RIGHT-OF-WAY MUST BE APPROVED BY TRAFFIC AND TRANSPORTATION WELL IN ADVANCE OF THE OCCURRENCE. COORDINATE WITH TRAFFIC AND TRANSPORTATION PRIOR TO CONSTRUCTION.
7. CONSTRUCTION AND DEMOLITION TRAFFIC MUST AVOID RESIDENTIAL STREETS AT ALL TIMES UNLESS THERE ARE NO ALTERNATIVE ROUTES. IF IMPACTS TO RESIDENTIAL STREETS ARE ANTICIPATED, THE CONTRACTOR SHOULD CONTACT TRAFFIC AND TRANSPORTATION PRIOR TO USING THE ROUTE.

IRRIGATION SYSTEM DESIGN REQUIREMENTS:

A). CONTROLLERS
1). IRRIGATION SYSTEMS SHALL BE CENTRALLY CONTROLLED OVER THE INTERNET. THE CONTROLLER INSTALLED SHALL BE A TORO SENTINEL.
2). THE CONTRACTOR SHALL INSTALL A CONTROLLER WITH A MOTHER BOARD THAT IS LARGE ENOUGH TO ACCOMMODATE ALL OF THE ZONES THAT ARE TO BE WIRED TO IT.
3). THE CONTROLLER SHALL BE INSTALLED LESS THAN 250 FT. AWAY FROM THE INTERNET HUB.
4). IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH THE PLANT OPERATIONS DESIGNEE.
5). IRRIGATION CONTRACTOR TO HARD WIRE CONTROLLER TO POWER SUPPLY AS PER PREVAILING CODE.
6). CONTROLLER TO BE SECURELY FASTENED TO WALL USING METALLIC FASTENERS MADE FOR WALL TYPE.
7). ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC ELECTRICAL CONDUIT.
8). THE CONTROLLER IS TO BE PROPERLY GROUNDED AS PER LOCAL CODE.

B). FLOW SENSORS
1). ALL IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A FLOW SENSOR. FLOW SENSORS MUST BE TORO BRAND AND APPROPRIATELY SIZED FOR THE APPLICATION.
2). FLOW SENSORS MUST BE INSTALLED DOWNSTREAM OF THE MASTER VALVE.
3). FLOW SENSORS MUST BE INSTALLED ALONG THE MAINLINE PIPE SYSTEM IN A LOCATION THAT IS 10 TIMES THE PIPE DIAMETER UPSTREAM AND 5 TIMES THE PIPE DIAMETER DOWNSTREAM TO MINIMIZE FLOW DISTURBANCE. PIPE BENDS, VALVES, PIPE FITTINGS, PIPE ENLARGEMENTS, AND REDUCTIONS SHOULD NOT BE PRESENT WITHIN THIS PIPE LENGTH.
4). MUST USE DIRECT BURIAL TELECOMMUNICATION SHIELDED CABLE THAT'S 18 AWG OR LARGER TO CONNECT THE FLOW SENSOR TO THE CONTROLLER.
5). CONTRACTORS SHALL NOT INSTALL MORE THAN 1000 FT OF TELECOMMUNICATION CABLE WITHOUT PROPER SIGNAL AMPLIFICATION.

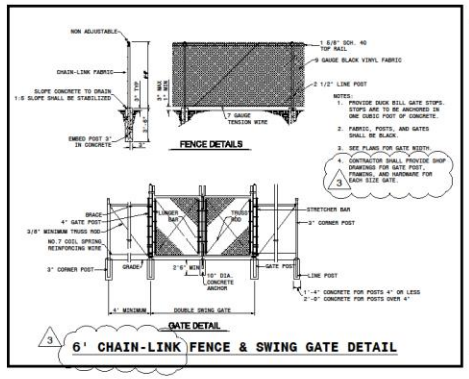
C). MASTER VALVES
1). ALL IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A MASTER VALVE. MASTER VALVES MUST BE RAIN BIRD BRAND AND SIZED APPROPRIATELY FOR THE APPLICATION.
2). THE MASTER VALVE SHALL BE INSTALLED NO MORE THAN 6FT DOWNSTREAM FROM THE WATER METER AND NO MORE THAN 2 FT UP STREAM OF THE FLOW SENSOR.

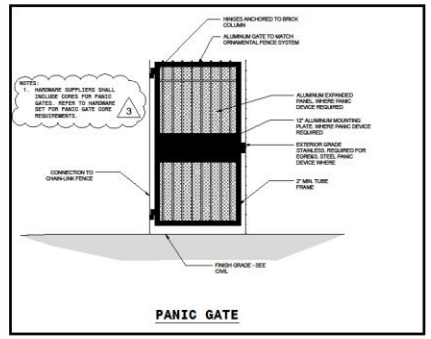
D). WIRING
1). ALL WIRE SPLICES SHALL BE MADE USING UL APPROVED DIRECT BURIAL CONNECTORS AND WATERPROOFING MATERIALS. ALL ELECTRICAL WORK SHALL BE INSTALLED ACCORDING TO LOCAL CODE.
2). WIRE RUNS SHALL BE INSTALLED WITH ENOUGH SLACK AND/OR OCCASIONAL EXPANSION LOOPS TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL CONTRACTION.
3). WIRE SPLICES SHALL BE KEPT TO AN ABSOLUTE MINIMUM. WHERE MAJOR CONCENTRATIONS OF SPLICES ARE NECESSARY SAID SPLICES SHALL BE IN A NDS PRO-SERIES 10" ROUND OR NDS PRO-SERIES SQUARE VALVE BOXES. ALL SPLICES IN VALVE BOXES SHALL BE MADE INSIDE OF THE VALVE BOX. ALL SPLICE LOCATIONS SHALL BE NOTED ON THE AS BUILT PLANS.
4). ALL 24VAC CONTROL WIRING SHALL BE SINGLE STRAND COPPER WIRE WITH POLYETHYLENE PE DIRECT BURIAL INSULATION RATED FOR 30VAC. ALL VALVE COMMON WIRES SHALL HAVE WHITE INSULATION WHILE VALVE HOT WIRES SHALL HAVE INSULATION RED IN COLOR. BOTH COMMON AND HOT WIRES SHALL BE AT LEAST 14 AWG OR LARGER. VALVE WIRING SHALL FOLLOW MAINLINE PIPING WHERE FEASIBLE AND SHALL BE LAID IN A COMMON TRENCH LINE WITH THE MAINLINE PIPING AND IN THE BOTTOM OF THE TRENCH. WIRING SHALL BE BUNDLED AND TAPED AT INTERVALS OF APPROXIMATELY 10 FT. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
5). ALL IRRIGATION ZONE WIRES (HOT AND COMMON) WILL BE 14 AWG OR LARGER.

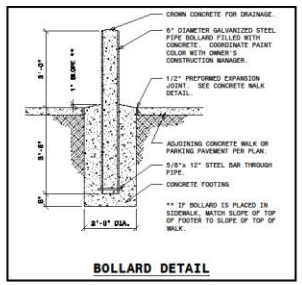
E). ATHLETIC FIELDS
1). WHEN INSTALLING IRRIGATION FOR ATHLETIC FIELDS VALVES OF ANY KIND SHALL NOT BE INSTALLED IN THE PLAYING AREA.
2). ALL SPRINKLER HEADS INSTALLED FOR THE PURPOSE OF PROVIDING WATER TO AN ATHLETIC FIELD SHALL BE STAINLESS STEEL RAIN BIRD 5000 SERIES ROTORS ATTACHED TO 1" SWING JOINT RISER ASSEMBLIES.

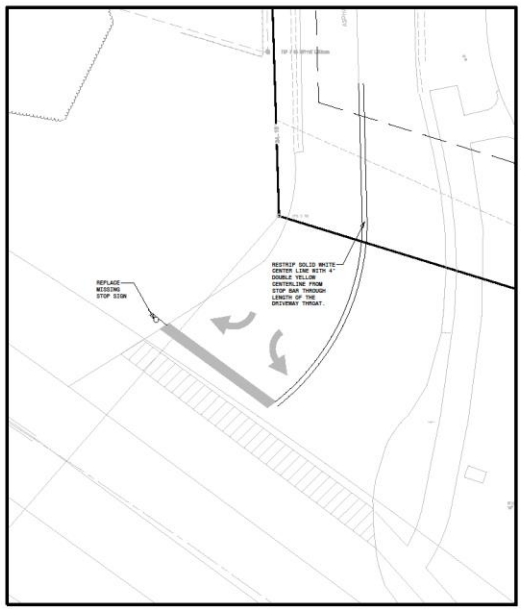
G). GENERAL NOTES
1). ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES. THE CONTRACTOR SHALL OBTAIN ALL LICENSES AND PERMITS REQUIRED FOR THE PERFORMANCE OF HIS WORK.
2). THE IRRIGATION SYSTEM DESIGN PLAN MUST BE APPROVED BY THE PLANT OPERATIONS DESIGNEE.
3). SHOP DRAWINGS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR HIS APPROVAL.
4). CONTRACTOR SHALL PROVIDE (3) HARD COPIES, PDFS, AND AUTOCAD FILES OF THE NEW IRRIGATION SYSTEM AS BUILTS TO OWNER UPON COMPLETION.
5). ALL PIPE SHALL BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS.
6). IRRIGATION SYSTEM SHALL BE MAINTAINED AND GUARANTEED FOR A MINIMUM PERIOD OF (1) YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY OWNER.
7). PIPE SLEEVES SHALL BE INSTALLED BY IRRIGATION CONTRACTOR AS NECESSARY. COORDINATE WITH GENERAL CONTRACTOR.
8). BEFORE EXCAVATION THE IRRIGATION CONTRACTOR MUST CONTACT 811 AND OBTAIN A WORK ORDER FOR UTILITY MARKING AT THE WORK SITE. THE LOCATION OF ALL ABOVE GROUND AND BELOW GROUND UTILITIES IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. DAMAGE TO UTILITIES AND PERSONAL INJURY AS A RESULT OF THE FAILURE TO DETERMINE AND/OR RESPECT UTILITY LOCATIONS IS THE SOLE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
9). ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE IF POSSIBLE.
10). ALL BOXES USED FOR ELECTRONIC VALVES, ISOLATION VALVES, BALL VALVES AND WIRE CONNECTIONS MUST BE NDS PRO-SERIES 10" ROUND BOXES OR NDS PRO-SERIES SQUARE BOXES.
11). THE CONTRACTOR SHALL ADJUST THE RADIUS AND THROW OF EACH SPRINKLER HEAD TO PROVIDE OPTIMUM COVERAGE WHILE MINIMIZING OVERSPRAY ONTO HARDSCAPES, SIDEWALKS, OR BUILDINGS. ADJUST HEADS TO ELIMINATE DRY SPOTS.
12). ALL THREADED PIPE CONNECTIONS SHALL BE ASSEMBLED USING TEFLON THREAD SEALING TAPE.
13). ALL VALVE AND WIRE CONNECTION BOXES AS WELL AS SPRINKLER HEADS THAT ARE LOCATED IN GRASS AREAS SHALL BE INSTALLED AT GRADE LEVEL SO THAT THEY WILL NOT CREATE TRIP HAZARDS OR BE DAMAGED BY LAWN MOWERS.
14). ALL HEADS MOUNTED IN THE LAWN AREAS SHALL BE MOUNTED ON POLYETHYLENE PIPE FLEX SWING JOINTS COMPOSED OF 3/8" I.D. POLY PIPE FITTED WITH (3/8" INSERT BY 1/2" M.P.T.) AND/OR (3/8" INSERT BY 3/4" M.P.T.) ELBOWS.
15). ALL SPRINKLER HEADS DESIGNED ADJACENT TO CURBS OR PAVEMENT SHALL BE INSTALLED WITH A CLEARANCE OF 1 ½" FROM THE EDGES OF ALL PAVED AREAS TO PROVIDE FOR EDGING AND MAINTENANCE OPERATIONS. NO HEADS SHALL BE ALLOWED TO BE INSTALLED ON SWING RISERS WITHOUT THE CONSENT OF THE PLANT OPERATIONS DESIGNEE. ALL SPRINKLER HEADS INSTALLED IN BED AREAS SHALL NOT HAVE THE TOP OF THE HEAD MORE THAN ½" ABOVE GRADE AND SHALL BE INSTALLED WITH A MINIMUM OF A 6" CLEARANCE FROM PAVED AREAS.
16). NO DRIP LINE IRRIGATION SHALL BE INSTALLED ANYWHERE WITHIN THE SYSTEM WITHOUT CONSENT OF THE PLANT OPERATIONS DESIGNEE. THIS PERTAINS TO ANY SYSTEM, WHETHER PERMANENT OR TEMPORARY.
17). NO 2-WIRE IRRIGATION SYSTEMS ARE PERMITTED WHETHER TEMPORARY OR PERMANENT.
18). MINIMUM DEPTH OF COVER OVER MAINLINE PIPING TO BE 18".
19). MINIMUM DEPTH OF COVER OVER LATERAL LINE PIPING TO BE 12".
20). NO ROCKS, BOULDERS, SHARP OBJECTS OR TRASH IS TO BE PLACED IN THE TRENCH BACKFILL.
21). CLEAN UP AND DISPOSE OF ALL DEBRIS, WASTE, AND EXCESS CONSTRUCTION MATERIALS. MUST LEAVE AREA NEAT, CLEAN, AND READY FOR OWNERS USE. MUST PROVIDE CLEAN PAVEMENT SURFACES.

CALL 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

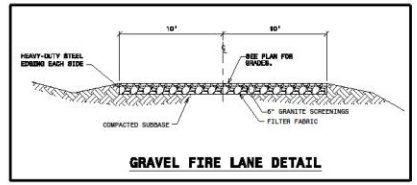








BOHICKET ROAD STRIPING PLAN
SCALE: 1" = 10'

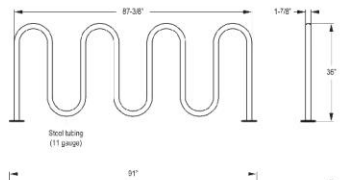


GRAVEL FIRE LANE DETAIL

BELSON OUTDOORS
627 Ameriale Dr
Naperville, IL 60563
Phone: (800) 323-5664
Fax: (630) 897-0373
sales@belson.com

Model # CBBR-9UR-SS — Dimension Sheet

9 Bike Wave Bike Rack, Stainless Steel, Surface Mount



www.belson.com

BELSON OUTDOORS
111 North River Road
North Aurora, IL 60542
Phone: (800) 323-5664
Fax: (630) 897-0373
sales@belson.com

Model # CBBR-9UR-SS

9 Bike Wave Bike Rack, Stainless Steel, Surface Mount

Common Tools Needed
Tape Measure
Marker, Pencil, or Chalk
Masonry drill Bit 3/8"
Hammer Drill or Regular Drill
Wrench 9/16"

Step 1
Choose your desired location for the bike rack.
The rack site is recommended to be within 50 feet, not exceeding 100 feet, or a 50 second walk from the entrance of your building. Make sure it is highly visible.

Then use a 'marker', chalk, or pencil to outline the holes of the flange onto the base material.

Step 2
Create starter pilot holes, it will help prevent the hammer drill from drifting. If using a hammer drill, set the drill setting to 3-5/8". Then drill hole that has a one inch diameter and depth of 3-5/8".

Step 3
Secure the rack. Use a hammer to set anchors in place. Carefully set the bike rack over the newly drilled holes and place washers over the flanges and secure bolts. Use a ½" wrench to tighten bolts. Use included washers to level your rack if it is necessary.

If installing numerous racks, make sure the aisles are measured from lip to lip of the bike lines across the space between the racks. The APBP defines the minimum space between aisles should be 48 inches (4 feet), and in high traffic areas a minimum 72 inches (6 feet) is needed.

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BIKE PARKING FACILITY

S&W
ARCHITECTURE ENGINEERING INTERIORS
STEVENS & WILKINSON
1501 MAIN STREET, SUITE 730
COLUMBIA, SC 29201
P 803.765.0320 F 803.254.6209
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4000 FABER PLACE DRIVE, SUITE 202
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CORPORATE SEAL

8/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
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■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

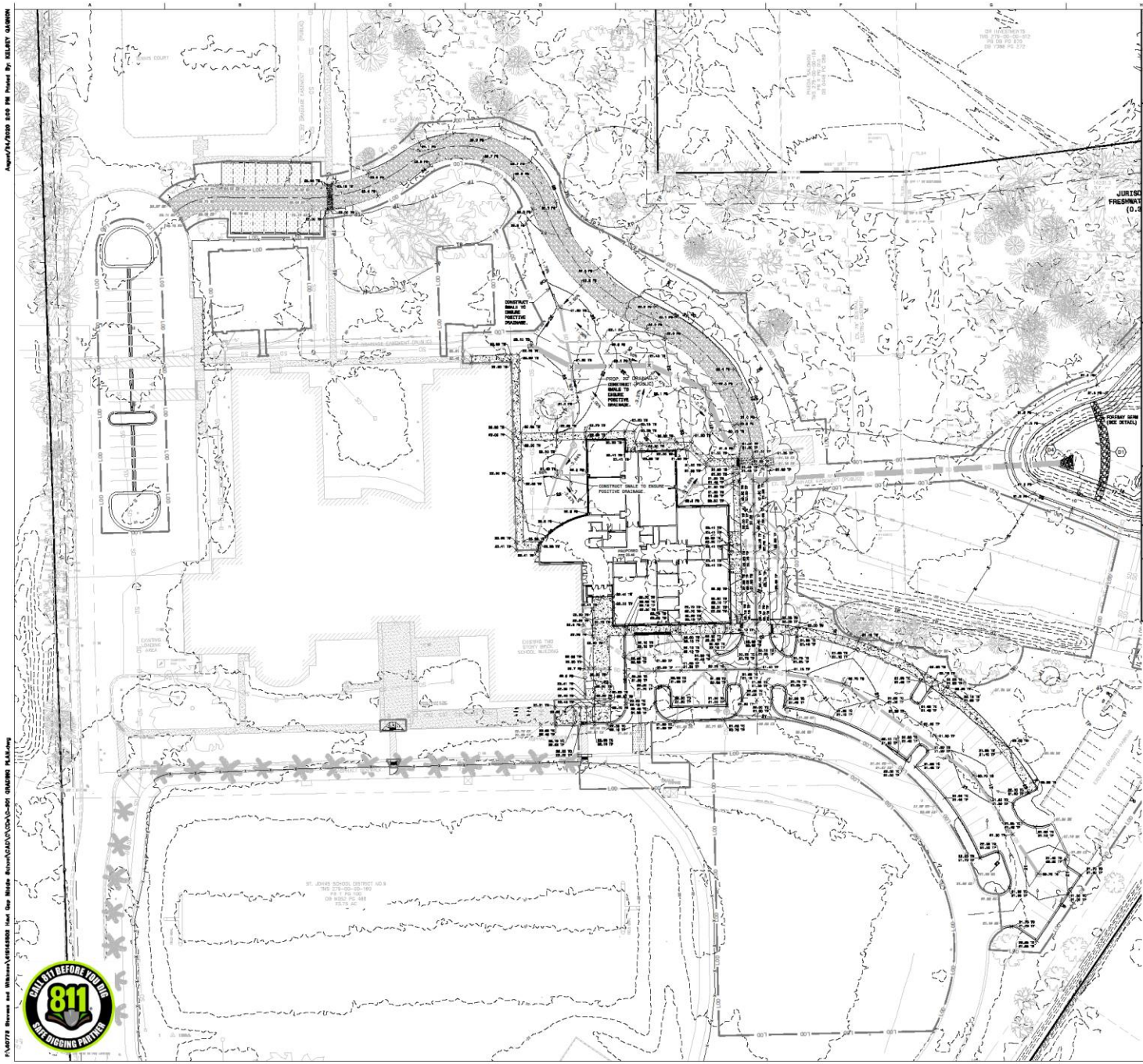
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SITE DETAILS

C222



MAP NOTE:

1. ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: ESP ASSOCIATES, INC. DATED 10/30/2019, REVISED 01/31/2020, PREPARED BY AARON TAYLOR, PLS (ATTAYLOR@ESPASSOCIATES.COM AND 843.714.3046) AND DARYN CLOPTON.
2. TRANSFER OF SITE BENCHMARK(S) IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL ONLY BE COMPLETED BY A SURVEYOR LICENSED/REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING BENCHMARK PRIOR TO ANY CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. FIELD VERIFICATION CAN BE ACCOMPLISHED BY CHECKING A MINIMUM OF TWO FIXED OBJECTS DISPLAYED ON THE SURVEY (i.e. MANHOLE RIM, STORM GRATE, PIPE INVERTS, ETC.).
4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

GRADING NOTES:

1. SEE GENERAL NOTES, SHEET G001.
2. ALL LAND DISTURBING OPERATIONS SHALL BE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL SURVEY CONTROLS.
4. CONTRACTOR SHALL REMOVE ALL STRIPPINGS, DEBRIS AND EXCESS EXCAVATED MATERIALS FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATIONS AND GRADING INCLUDING FURNISHING OFF-SITE BORROW AS REQUIRED TO MEET PLAN GRADES.
6. IF UNSUITABLE SUBGRADE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT (FROM OFF-SITE BORROW MATERIAL IF NECESSARY) OF ALL UNSUITABLE MATERIAL TO MEET COMPACTION REQUIREMENTS UNDER PAVED SURFACES. UNSUITABLE MATERIALS ARE THOSE CLASSIFIED AS MH, CH, OH, OL AND PT&T IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, UNLESS APPROVED IN WRITING BY THE PROJECT GEOTECHNICAL ENGINEER. THE SITE ENGINEER AND GEOTECHNICAL ENGINEER, SHALL BE NOTIFIED IMMEDIATELY UPON ENCOUNTERING UNSUITABLE SUBGRADE MATERIAL.
7. CONTRACTOR SHALL UNIFORMLY GRADE BEHIND CURBS, BUILDINGS, ROADS, ETC. TO MATCH EXISTING GRADES. LANDSCAPE ISLANDS SHALL BE GRADED TO DRAIN OVER CURBS.
8. GRADE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE TO EXISTING OR NEW DRAINAGE FACILITIES.
9. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY TO MEET REQUIRED EXCAVATIONS AND GRADES. DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO MARSH OR WETLAND AREAS. MUDDY WATER TO BE PUMPED FROM EXCAVATION AND WORK AREAS MUST BE HELD IN SETTLING BASINS OR FILTERED PRIOR TO ITS DISCHARGE INTO SURFACE WATERS OR STORM DRAINAGE SYSTEMS. WATER MUST BE DISCHARGED THROUGH A PIPE, WELL GRASSED OR LINED CHANNEL, OR OTHER EQUIVALENT MEANS SUCH THAT DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENTATION.
10. THERE ARE TO BE NO DEPRESSIONS IN THE BOTTOM OF DRY DETENTION POND WHERE WATER MIGHT POOL.

ACCESSIBILITY NOTES:

1. ALL WORK SHALL MEET THE GUIDELINES OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG), LATEST EDITION, AND ANY ADDITIONAL STATE OR LOCAL REQUIREMENTS REGARDING ACCESSIBILITY.
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3. CONTRACTOR SHALL ENSURE THAT THE DOORWAY THRESHOLDS MEET ACCESSIBILITY REQUIREMENTS.
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6. SLOPES IN ANY DIRECTION, INCLUDING THE DIAGONALS, WITHIN THE ACCESSIBLE PARKING SPACES OR ACCESS AISLES SHALL NOT EXCEED 1:60 (2.0%).
7. ALL EXTERIOR CONCRETE SURFACES SHALL RECEIVE A HEAVY BROOM FINISH FOR PEDESTRIAN SLIP-RESISTANCE.

GRADING KEY NOTES

01. FOREBAY. SEE DETAIL ON SHEET C823.
02. EMERGENCY SPILLWAY. SEE DETAIL ON SHEET C320.
03. POND BOTTOM MAINTENANCE ACCESS.
04. PERMANENT OUTLET PROTECTION. SEE DETAIL ON SHEET C321.

LEGEND

LIMITS OF DISTURBANCE

SITE DATA

PARCEL AREA	SF = 23.75 ACRES
DISTURBED AREA	SF = 6.61 ACRES
PRE CONSTRUCTION PARCEL PERVIOUS AREA	SF = 17.86 ACRES
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CORPORATE SEAL

8/24/20

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
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■ APPROVED FOR CONSTRUCTION
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CONSTRUCTION DOCUMENTS

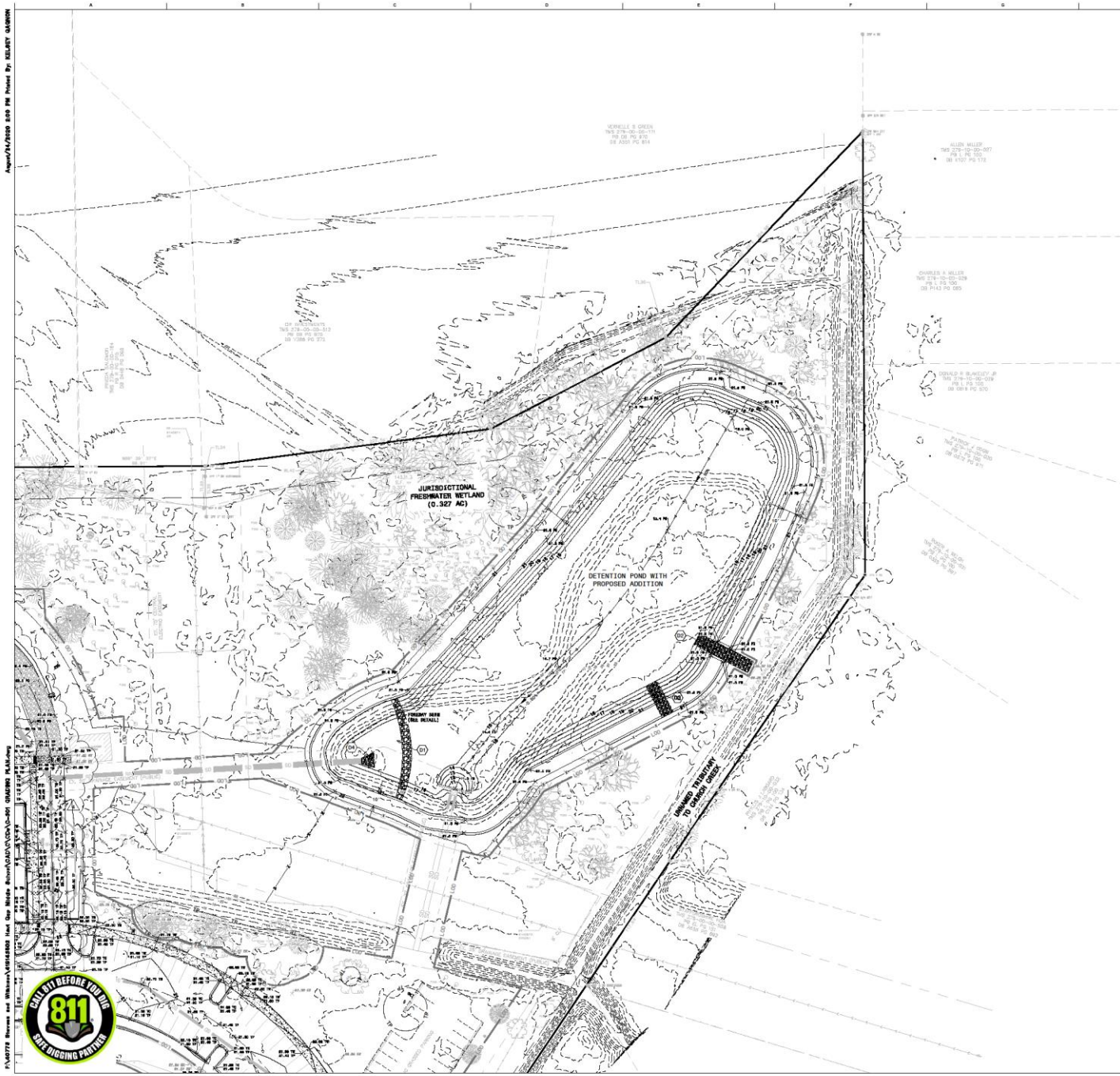
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHICKEY RD, JOHNS ISLAND, SC 29455

GRADING PLAN

C301



August/24/2020 8:00 PM Plotted By: KELLEY QUINN

P:\40779 Stevens and Wilkinson\Vis\45803 Haut Gap Middle Reno\CAD\CVS\CVS-001 GRADING PLAN.dwg

MAP NOTE:

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CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
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■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

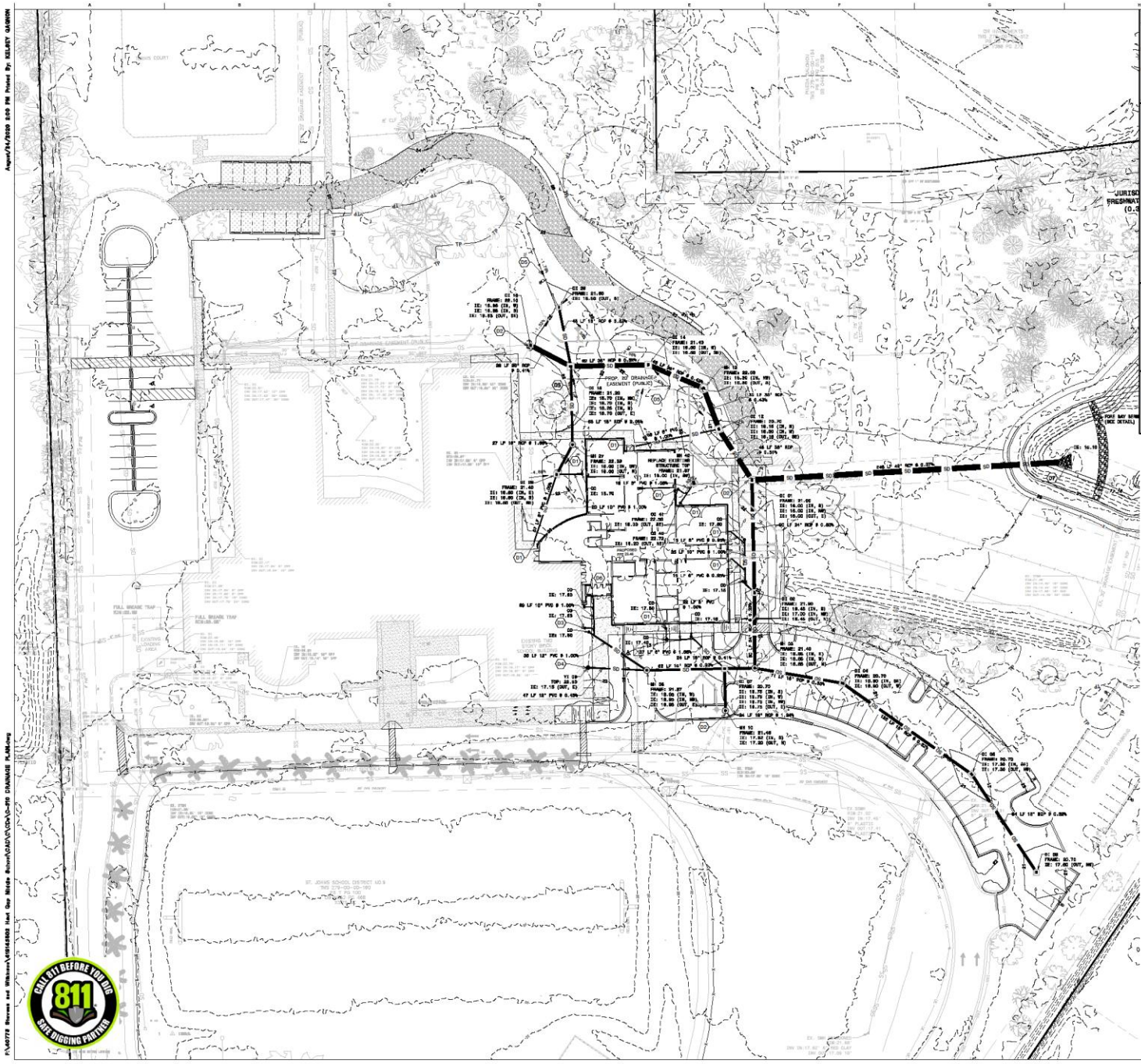
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

GRADING PLAN

C302



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4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

STORM DRAINAGE NOTES:

1. SEE GENERAL NOTES, SHEET C001.
2. ALL RCP PIPE SHALL BE CLASS III WATERTIGHT REINFORCED CONCRETE PIPE WITH GASKET JOINTS UNLESS OTHERWISE NOTED. ALL RCP JOINT SHALL BE WRAPPED WITH TWO-FOOT (MIN) WIDE FABRIC LAPPED 24" (MIN).
3. LOCATIONS AND TOP ELEVATIONS OF INLETS AND STRUCTURES WILL BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER.
4. INVERTS SHOWN ON PLAN DRAWING ARE PIPE INVERTS.
5. RIP RAP SHOWN FOR VISUAL PURPOSES ONLY. NOT TO SCALE.
6. ALL DETENTION PONDS, OUTFALLS STRUCTURES, AND SWALES SHALL BE MAINTAINED BY THE OWNER AFTER PROJECT CLOSEOUT.
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8. SITE CONTRACTOR IS RESPONSIBLE FOR EXTENDING ROOF DRAIN LEADERS TO WITHIN 5 FEET OF BUILDING FOR CONNECTION OF EXTERNAL DOWNSPOUTS/ROOF DRAINS. ALL CONNECTION POINTS SHOWN ARE FOR REFERENCE ONLY. PLUMBING CONTRACTOR/GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING TRANSITION AND CONNECTION TO ROOF DRAIN LEADERS.
9. FLOW ARROWS SHOWN ON DRAINAGE PLAN FOR INFORMATIONAL PURPOSES. CONTRACTOR SHALL USE GRADING PLAN FOR GRADING DURING CONSTRUCTION.

DRAINAGE KEY NOTES

(X)

01. CONNECT TO ROOF DRAIN. SEE PLUMBING PLANS.
02. CONNECT TO EXISTING STORM DRAINAGE.
03. CONNECT TO EXISTING ROOF DRAIN. SEE NOTE 8 ABOVE.
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07. PERMANENT OUTLET PROTECTION. SEE DETAIL ON SHEET C321.

SITE DATA

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CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
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CONSTRUCTION DOCUMENTS

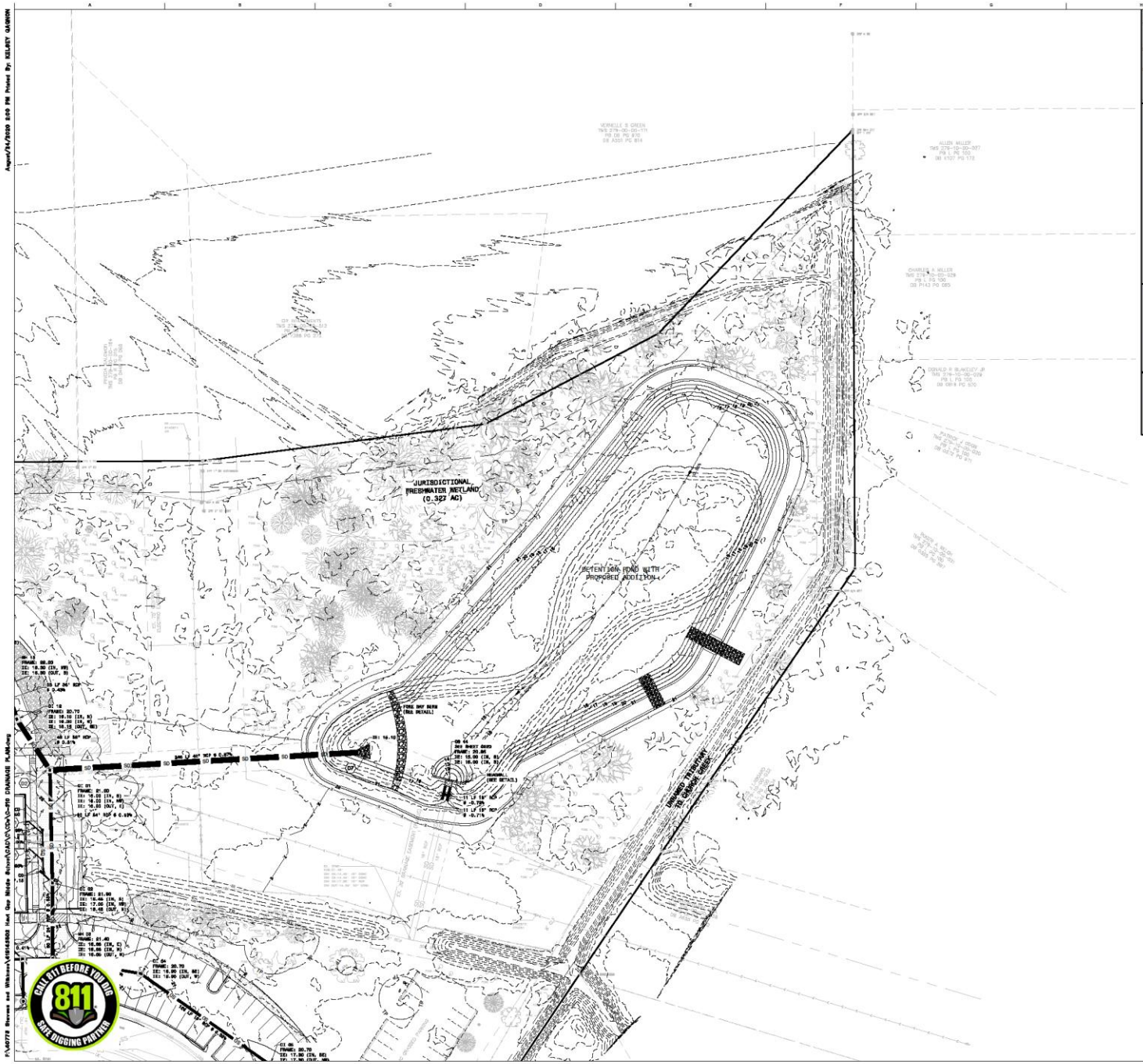
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

DRAINAGE PLAN

C310



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DRAINAGE PLAN

C311

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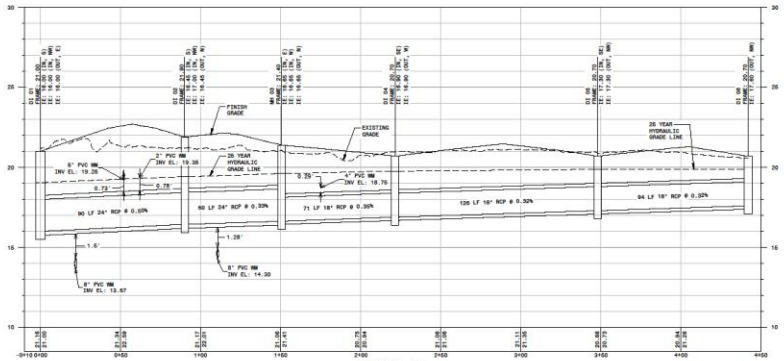
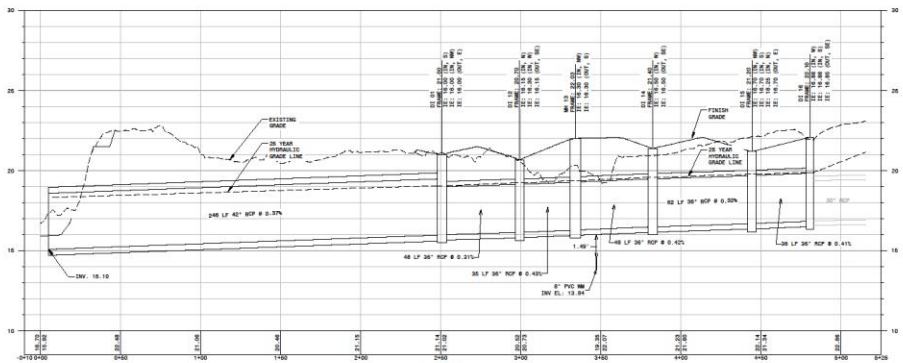
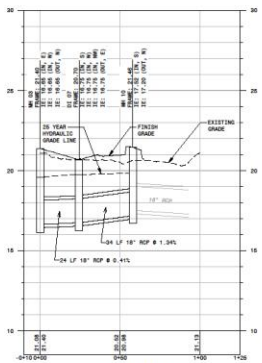


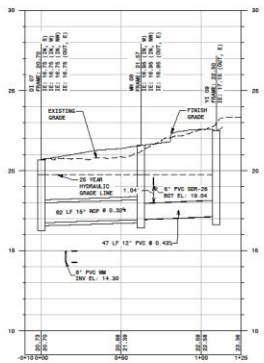
STORM-01
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



STORM-02
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



STORM-03
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



STORM-04
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL

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CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
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3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	8/26/2020	ADDENDUM 2- DRB/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
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■ PROJECT NUMBER: 19065.00
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CONSTRUCTION DOCUMENTS

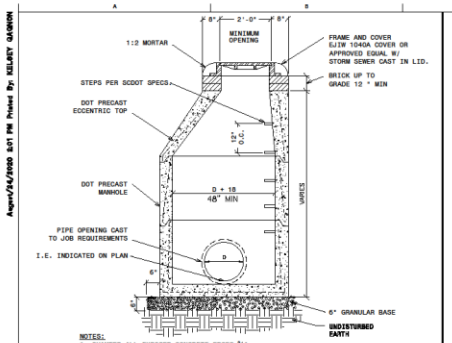
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

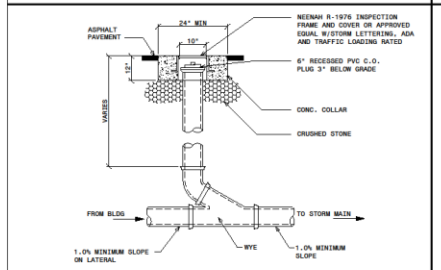
1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

STORM DRAIN PROFILE

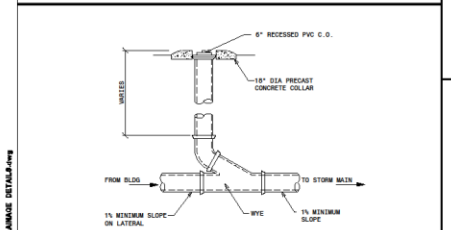
C315



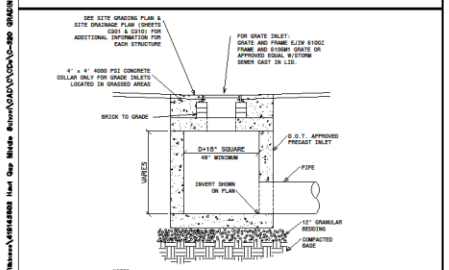
STORM MANHOLE



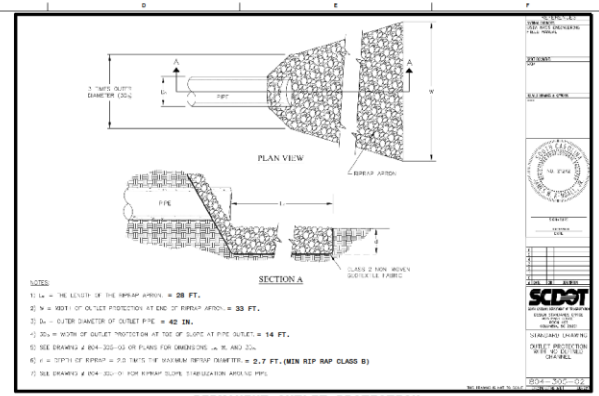
STORM CLEANOUT



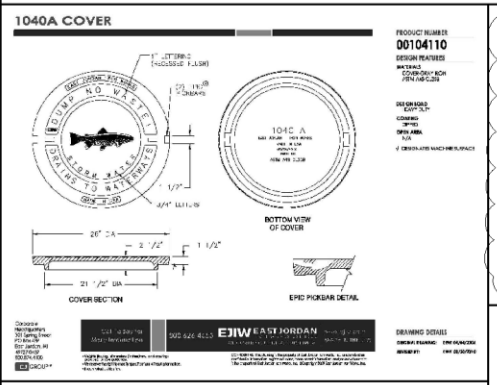
STORM CLEANOUT NON-PAVEMENT AREA

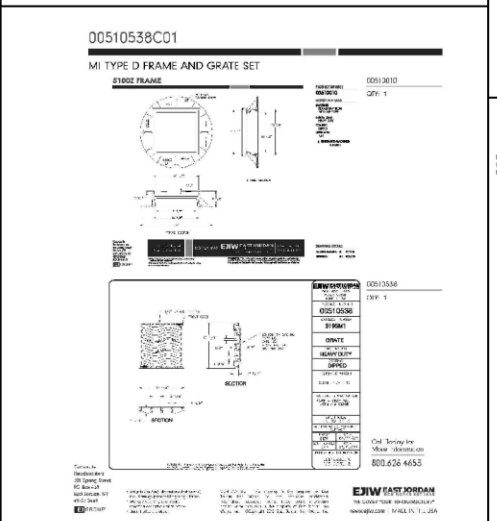


GRATE INLET WITHIN GRASSED AREA

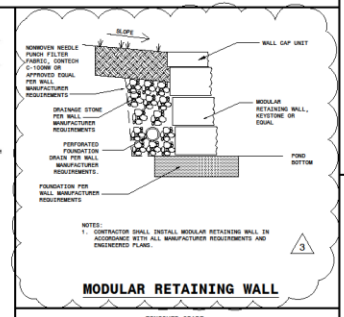


PERMANENT OUTLET PROTECTION

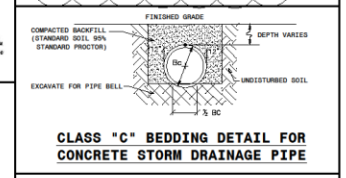




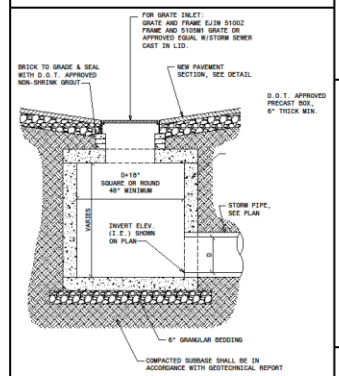
GRATE INLET FRAME



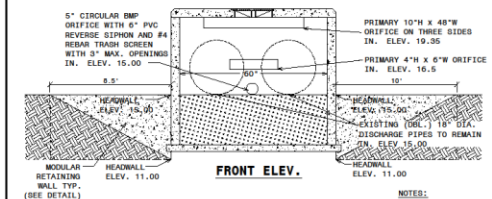
MODULAR RETAINING WALL



CLASS "C" BEDDING DETAIL FOR CONCRETE STORM DRAINAGE PIPE

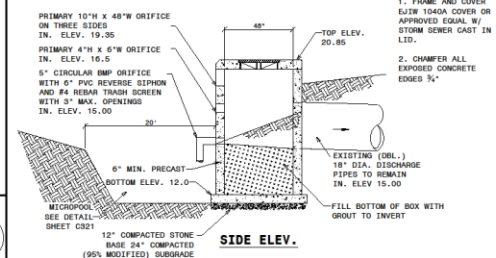


GRATE INLET WITHIN PAVEMENT



FRONT ELEV.

NOTES:
1. FRAME AND COVER EJIW 1040A COVER OR APPROVED EQUAL W/ STORM SEWER CAST IN LID.
2. CHAMFER ALL EXPOSED CONCRETE EDGES ¾"

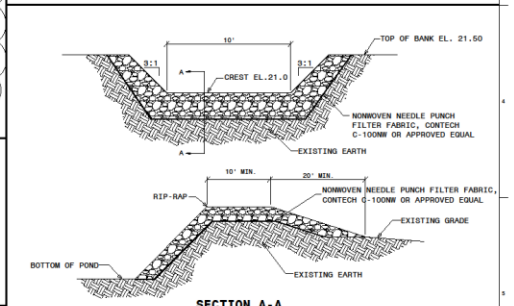


SIDE ELEV.

POND STAGING INFORMATION

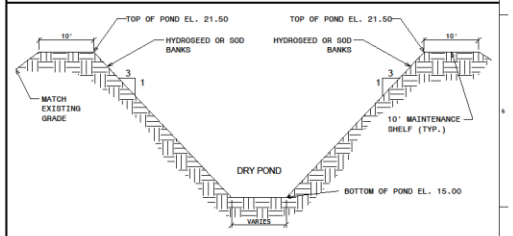
WATER QUALITY VOL. ELEV:	16.13
2 YR WATER ELEV:	17.82
10 YR WATER ELEV:	19.51
25 YR WATER ELEV:	19.75
100 YR WATER ELEV:	20.48

POND OUTFALL STRUCTURE



SECTION A-A

POND EMERGENCY SPILLWAY DETAIL



TYPICAL POND SECTION

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Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
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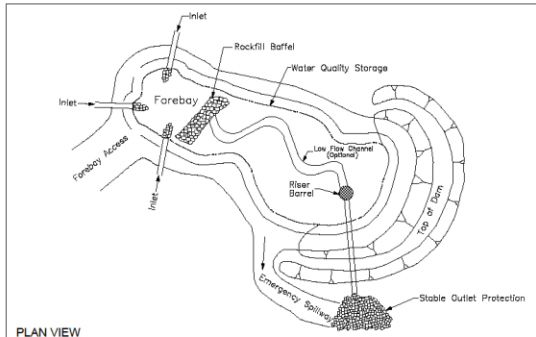
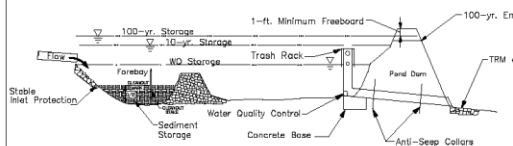
GRADING AND DRAINAGE DETAILS

C320



PLAN VIEW



PROFILE

South Carolina Department of Health and Environmental Control

DRY PONDS

STANDARD DRAWING NO. WQ-03 Page 1 of 3

APPROVED BY: _____ SCDHEC AUGUST, 2005 DATE

Dry Storm Water Detention Ponds

Dry pond inside slopes should not be more than 3:1

The pond floor should have a minimum slope of 2% toward the outlet or underdrain system.
Adequate maintenance access must be provided for all dry detention and dry ED ponds.

Low Flow Channel

A low flow channel should be provided to prevent standing water conditions. This channel should be protected to prevent scouring. The remainder of the pond
should drain toward this channel. Where recreational uses are desired, the low-flow channel should be placed to one side instead in the middle of the pond.

Outfall

For a dry detention pond, the outlet structure is sized for water quality control and water quantitiy control (based upon hydrologicrouting calculations) and can
consist of a weir, orifice, outlet pipe, combination outlet, or other acceptable control structure.

A low flow orifice capable of releasing the water quality volume over 24 hours must be provided. The water quality orifice should have a minimum diameter of
2-inches and should be adequately protected from clogging by an acceptable external trash rack.

The outfall of dry ponds should always be stabilized to prevent scour and erosion. If the pond discharges to a channel with dry weather flow, care should be
taken to minimize tree clearing along the downstream channel, and to reestablish a forested riparian zone in the shortest possible distance.

Emergency Spillway:

An emergency spillway must be included to pass the 100-year storm event. The spillway prevents pond water levels from overtopping the embankment and
causing structural damage. The spillway must be designed and installed to protect against erosion problems.

Anti-seep Collars:

Seepage control or anti-seep collars should be provided for all outlet pipes.

Inspection and Maintenance:

Regular inspection and maintenance is critical to the effective operation of dry ponds as designed. Maintenance responsibility for a pond should be vested with a responsible authority by means of a legally binding and enforceable maintenance agreement that is executed as a condition of plan approval.

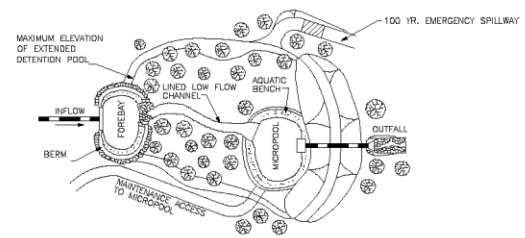
Inspections should be conducted semi-annually and after significant storm events to identify potential problems early. Most maintenance efforts will need to be directed toward vegetation management and basic housekeeping practices such as removal of debris accumulations and vegetation management to ensure that the pond dewaters completely to prevent mosquito and other habitats.

South Carolina Department of Health and Environmental Control

DRY PONDS

STANDARD DRAWING NO. WQ-03 Page 2 of 2

APPROVED BY: _____ SCDHEC AUGUST, 2005 DATE



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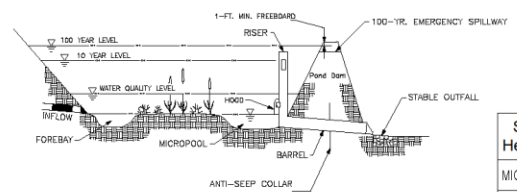

PROFILE

South Carolina Department of Health and Environmental Control

MICROPOOL EXTENDED DETENTION POND

STANDARD DRAWING NO. WQ-02B Page 1 of 2

APPROVED BY: _____ SCDHEC AUGUST, 2005 DATE

MICROPOOL EXTENDED DETENTION POND

Installation:

A forebay shall be provided for all inlets to a micropool extended water quality pond and shall be placed upstream of the micropool area. The forebay is separated
from the micropool by a berm that may be constructed of earth, stones, riprap, gabions, or geotextiles. The top of the forebay barrier shall be equal to the
normal pool elevation, and may extend above the elevation of the permanent pool. A TRM lined low flow channel shall be constructed to convey flow from the forebay
to the micropool area.

The micropool shall be four (4) to six (6) feet in depth.

A low flow orifice shall be installed to slowly release the water quality volume. The low flow orifice shall be protected from clogging by designing appropriate trash
guards. Acceptable trash guards include:

Hoods that extend at least 6-inches below the water quality pool water surface elevation.

Reverse flow pipes where the outlet structure inlet is located at least 6-inches below the water quality water surface elevation.

Emergency spillways shall be installed to safely pass the post-development 100-year 24-hour storm event without overtopping any dam structures.

Inspection and Maintenance:

The side slopes of the pond shall be mowed monthly.

Since decomposing vegetation captured in the wetpond can release pollutants, especially nutrients, it may be necessary to harvest dead vegetation annually.
Otherwise the decaying vegetation can export pollutants out of the pond and can cause nuisance conditions to occur.

DEBRIS SHALL BE CLEARED FROM ALL INLET AND OUTLET STRUCTURES MONTHLY.

ALL ERODED OR UNDERCUT AREAS SHALL BE REPAIRED AS NEEDED.

A SEDIMENT MARKER SHALL BE PLACED IN THE FOREBAY TO DETERMINE WHEN SEDIMENT REMOVAL IS REQUIRED.

SEDIMENT ACCUMULATIONS IN THE MAIN POND AREA SHALL BE MONITORED AND SEDIMENT SHALL BE REMOVED WHEN THE
PERMANENT POOL VOLUME HAS BEEN SIGNIFICANTLY FILLED AND/OR THE POND BECOMES EUTROPHIC.

South Carolina Department of Health and Environmental Control

MICROPOOL EXTENDED DETENTION POND

STANDARD DRAWING NO. WQ-02B Page 2 of 2

APPROVED BY: _____ SCDHEC AUGUST, 2005 DATE

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GRADING AND DRAINAGE DETAILS

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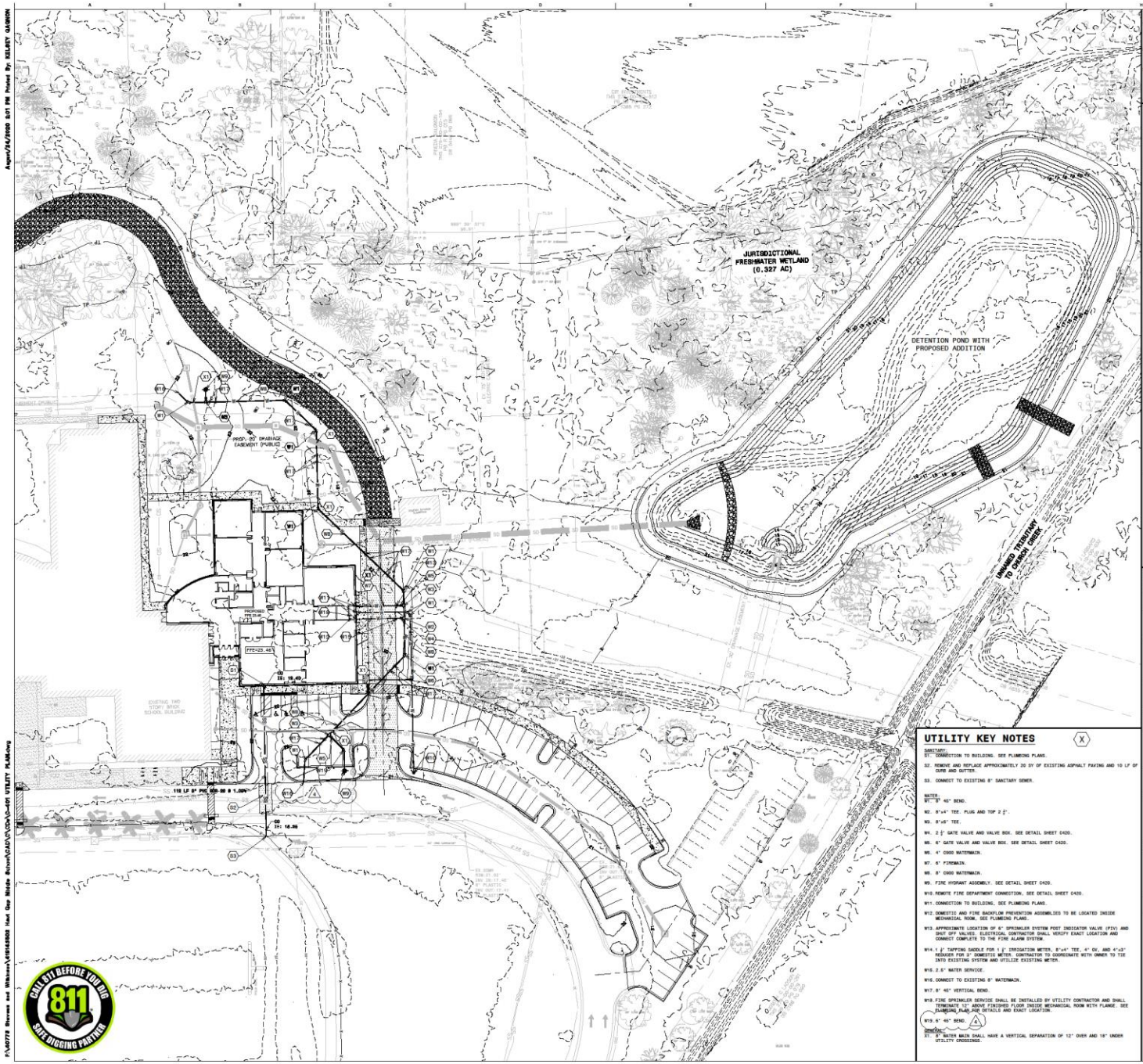

MAP NOTE:

1. ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: ESP ASSOCIATES, INC. DATED 10/30/2019, REVISED 01/31/2020, PREPARED BY AARON TAYLOR, PLS (ATAYLOR@ESPASSOCIATES.COM AND 843.714.3046) AND DARYN CLOPTON.
2. TRANSFER OF SITE BENCHMARK(S) IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL ONLY BE COMPLETED BY A SURVEYOR LICENSED/REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING BENCHMARK PRIOR TO ANY CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. FIELD VERIFICATION CAN BE ACCOMPLISHED BY CHECKING A MINIMUM OF TWO FIXED OBJECTS DISPLAYED ON THE SURVEY (i.e. MANHOLE RIM, STORM GRATE, PIPE INVERTS, ETC.).
4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

SITE UTILITY NOTES:

1. SEE GENERAL NOTES, SHEET C001.
2. IN THE EVENT THESE NOTES CONFLICT WITH THE REQUIREMENTS OF CHARLESTON WATER SYSTEM, CHARLESTON WATER SYSTEM'S REQUIREMENTS SHALL GOVERN.
3. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES (LOCATION AND INVERT) PRIOR TO ANY SITE CONSTRUCTION OR DEMOLITION. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, BOTH MAIN AND SERVICE LINES FOR THE FOLLOWING:

   POTABLE WATER LINES, SANITARY SEWER LINES, ELECTRIC LINES (OVERHEAD AND UNDERGROUND), GAS LINES, TELEPHONE LINES, CABLE TELEVISION LINES, STORMWATER CONVEYANCE LINES
4. LOCATIONS AND TOP ELEVATIONS OF STRUCTURES WILL BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER.
5. CONSTRUCTION OF THE SANITARY SEWER SYSTEM AND CONNECTION TO THE EXISTING SEWER SYSTEM SHALL MEET THE CHARLESTON WATER SYSTEM MINIMUM STANDARDS FOR THE DESIGN & CONSTRUCTION OF WATER AND SANITARY SEWER SYSTEMS.
6. PVC SANITARY SEWER PIPE SHALL MEET THE CHARLESTON WATER SYSTEM MINIMUM STANDARDS FOR THE DESIGN & CONSTRUCTION OF WATER AND SANITARY SEWER SYSTEMS.
7. CONTRACTOR SHALL CONFIRM LOCATION AND INVERT ELEVATION OF SEWER TIE-IN POINT PRIOR TO ANY SITE OR BUILDING CONSTRUCTION.
8. ROOF DRAINS, FOUNDATION DRAINS OR OTHER STORM WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
9. CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY EXISTING POWER/TELEPHONE POLES OR LINES WITH THE LOCAL UTILITY COMPANY AND NOTIFY THE CORRESPONDING PROPERTY OWNER PRIOR TO COMMENCEMENT OF ANY WORK INCLUDING STATE DOT ENCROACHMENT PERMITS WHERE APPLICABLE.
10. CONTRACTOR SHALL INSTALL ALL NECESSARY CONDUITS AND WIRING FOR POWER AND CONTROL OF SIGN AND SITE LIGHTING. REFER TO BUILDING ELECTRICAL PLANS FOR DETAILS.
27. UTILITY SERVICES TO EXISTING SCHOOL MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
28. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SURVEY AND EASEMENT PLAT PER CODE REQUIREMENTS. SITE WORK CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT RECORD DRAWINGS PREPARED BY A SOUTH CAROLINA REGISTERED LAND SURVEYOR FOR SANITARY SEWER AND WATER DISTRIBUTION UTILITIES AS-BUILTS TO MEET THE REQUIREMENTS OF THE UTILITY PROVIDER AND STORM DRAINAGE AS-BUILTS TO MEET THE REQUIREMENTS OF SCDHEC AND/OR THE NPDES REVIEW AUTHORITY TO INCLUDE AS-BUILTS, PIPING PROFILES, EASEMENT PLATS, VALVE CARDS, AND OTHER CLOSE-OUT DOCUMENTATION AS NECESSARY TO OBTAIN FINAL CERTIFICATIONS FOR UTILITIES AND STORM DRAINAGE SYSTEMS BY THE ENGINEER AND ASSOCIATED REVIEW AUTHORITIES.
29. MANHOLE FRAMES/COVERS SHALL BE EITHER FULLY WITHIN OR FULLY OUTSIDE OF PAVED ROADWAYS AND SIDEWALKS. NO PORTION OF A MANHOLE SHALL BE WITHIN AN ADA SIDEWALK RAMP. CONTRACTOR SHALL ADJUST MANHOLE TOP ACCORDINGLY.

ST. JOHNS WATER CO. NOTES

1. DEVELOPER'S ENGINEER PROVIDES WRITTEN NOTIFICATION OF THE START OF CONSTRUCTION TO SJWC SEVEN (7) DAYS PRIOR TO COMMENCEMENT.
2. A PRE-CONSTRUCTION CONFERENCE IS HELD AT THE SJWC OFFICES. THE DEVELOPER OR DEVELOPER'S ENGINEER MUST INFORM SJWC OF THE ENGINEERING CONTRACT FOR CONSTRUCTION OVERSIGHT INCLUDING THE ON-SITE INSPECTOR'S NAME AND PHONE NUMBER.
3. DEVELOPER'S ENGINEER OR CONTRACTOR MUST CALL SJWC 72 HOURS PRIOR TO TAPPING THE MAIN WATER LINE, PERFORMING A PRESSURE TEST, OR CONDUCTING BACTERIOLOGICAL TESTS. SJWC WILL HAVE A COMPANY REPRESENTATIVE ON SITE FOR EACH OF THESE EVENTS. SJWC MUST ALSO BE NOTIFIED AND PRESENT FOR THE INSPECTION OF ALL HYDRANTS, VALVES, AND THRUST BLOCKS PRIOR TO THEM BEING COVERED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE A WATER SERVICE TAP ON THE NEWLY CONSTRUCTED WATER LINE FOR EACH LOT. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR INSTALLING METER BOXES AT EACH LOCATION. SJWC WILL THEN PLACE THE METERS IN THE METER BOXES.
5. THE DEVELOPER'S ENGINEER IS REQUIRED TO SUBMIT TO SJWC THE MONTHLY INSPECTION REPORTS.
6. AFTER A SUCCESSFUL PRESSURE TEST, THE CONTRACTOR MUST CONDUCT BACTERIOLOGICAL TESTS ACCORDING TO SC DHEC REGULATIONS IN THE PRESENCE OF A SJWC REPRESENTATIVE. TWO SAMPLES MUST SHOW NEGATIVE BACTERIOLOGICAL RESULTS OR THE PROCESS MUST BE REPEATED. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF ALL TESTING, INCLUDING WATER USED IN FLUSHING.
7. ALL NEW FIRE HYDRANTS SHOULD BE TESTED FOR STATIC AND RESIDUAL FLOWS AND THE FLOWS AT 20 PSI. THESE RESULTS SHOULD BE DOCUMENTED AND SUBMITTED TO SJWC.
8. CONFORMANCE OF CONSTRUCTION TO THE APPROVED PLANS AND SPECIFICATIONS IS THE RESPONSIBILITY OF THE DEVELOPER'S ENGINEER. THEY WILL ADVISE SJWC OF ANY CHANGES OR MODIFICATIONS MADE DURING CONSTRUCTION. SJWC SHALL HAVE THE RIGHT OF ENTRY TO THE CONSTRUCTION SITE TO OBSERVE AND VERIFY THAT THE CONSTRUCTION IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND TO WITNESS TESTING OF THE SYSTEM.
9. ALL VALVES SHALL OPEN CLOCKWISE AND HYDRANTS OPEN COUNTERCLOCKWISE.
10. INSTALL SAW CUTS AT THE CURB TO INDICATE THE LOCATION OF THE METER BOXES AND VALVES. PLEASE PLACE A SINGLE SLASH IN THE CURB FOR THE LOCATION OF A METER BOX, PLACE A "V" IN THE CURB AT THE VALVE LOCATIONS, AND PLACE A "X" IN THE CURB AT ALL ROAD CROSSING LOCATIONS. IF CURBS ARE NOT INSTALLED ON THE PROJECT THEN PINS MUST BE PLACED IN THE ASPHALT ROADWAY INDICATING THE METER BOX LOCATIONS.
11. THE EXPANSION CONNECTION, DUAL CHECK, AND TWO GASKETS THAT ACCOMPANY THE 5-INCH FORD METER BOX MUST BE GIVEN TO SJWC.
12. SJWC REQUIRES FIVE (5) PAPER COPIES OF THE FINAL AS-BUILT RECORD DRAWINGS WHICH SHOULD HAVE ALL WATER SYSTEM APPURTENANCES MARKED IN THE STATE PLANE COORDINATES. AN ELECTRONIC COPY OF THE AS-BUILTS AND THE POINTS FILE SHOULD BE EMAILED TO SJWCENGR@CLLSOUTH.NET.

UTILITY KEY NOTES

SANITARY:

S1. CONNECTION TO BUILDING. SEE PLUMBING PLANS.

S2. REMOVE AND REPLACE APPROXIMATELY 20 SY OF EXISTING ASPHALT PAVING AND 10 LF OF CURB AND GUTTER.

S3. CONNECT TO EXISTING 8" SANITARY SEWER.

WATER:

W1. 8" 45° BEND.

W2. 8"x4" TEE. PLUG AND TOP 2 ½".

W3. 8"x6" TEE.

W4. 2 ½" GATE VALVE AND VALVE BOX. SEE DETAIL SHEET C420.

W5. 6" GATE VALVE AND VALVE BOX. SEE DETAIL SHEET C420.

W6. 4" C900 WATERMAIN.

W7. 6" FIREMAIN.

W8. 8" C900 WATERMAIN.

W9. FIRE HYDRANT ASSEMBLY. SEE DETAIL SHEET C420.

W10. REMOTE FIRE DEPARTMENT CONNECTION. SEE DETAIL SHEET C420.

W11. CONNECTION TO BUILDING. SEE PLUMBING PLANS.

W12. DOMESTIC AND FIRE BACKFLOW PREVENTION ASSEMBLIES TO BE LOCATED INSIDE MECHANICAL ROOM. SEE PLUMBING PLANS.

W13. APPROXIMATE LOCATION OF 6" SPRINKLER SYSTEM POST INDICATOR VALVE (PIV) AND SHUT OFF VALVES. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATION AND CONNECT COMPLETE TO THE FIRE ALARM SYSTEM.

W14. 1 ½" TAPPING SADDLE FOR 1 ½" IRRIGATION METER, 8"x4" TEE, 4" GV, AND 4"x3" REDUCER FOR 3" DOMESTIC METER. CONTRACTOR TO COORDINATE WITH OWNER TO TIE INTO EXISTING SYSTEM AND UTILIZE EXISTING METER.

W16. 2.5" WATER SERVICE.

W16. CONNECT TO EXISTING 8" WATERMAIN.

W17. 8" 45° VERTICAL BEND.

W18. FIRE SPRINKLER SERVICE SHALL BE INSTALLED BY UTILITY CONTRACTOR AND SHALL TERMINATE 12" ABOVE FINISHED FLOOR INSIDE MECHANICAL ROOM WITH FLANGE. SEE PLUMBING PLANS FOR DETAILS AND EXACT LOCATION.

W19. 6" 45° BEND. (A)

GENERAL:

X1. 8" WATER MAIN SHALL HAVE A VERTICAL SEPARATION OF 12" OVER AND 18" UNDER UTILITY CROSSINGS.

GRAPHIC SCALE
NORTH 30 0 15 30
1 INCH = 30 FT
NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

CALL 811 BEFORE YOU DIG — SAFE DIGGING PARTNER

S&W ARCHITECTURE ENGINEERING INTERIORS
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NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

No. 23360 — 8/24/20 — REGISTERED ARCHITECT

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	8/26/2020	ADDENDUM 2- DRB/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

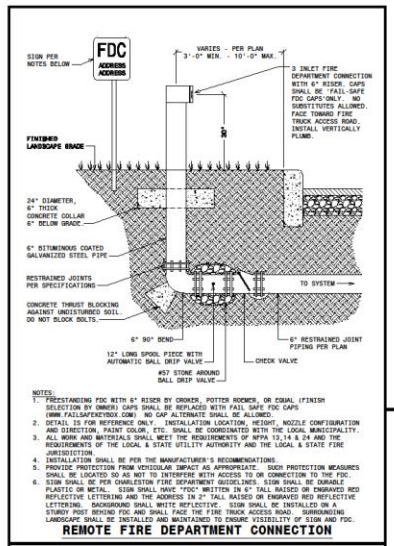
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

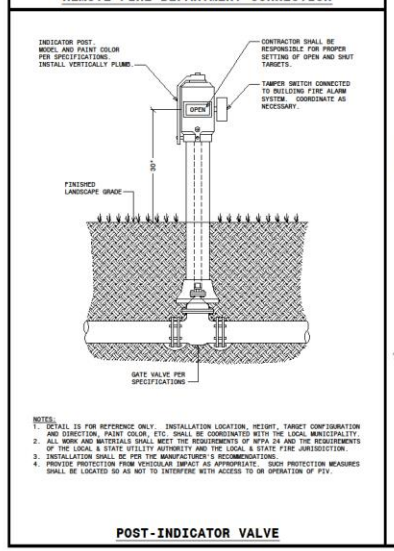
UTILITY PLAN

C401



NOTES:
1. FREESTANDING FDC WITH 6" RISER BY CROKER, POTTER ROEMER, OR EQUAL (FINISH SELECTION BY OWNER); CAPS SHALL BE REPLACED WITH FAIL SAFE FDC CAPS (WWW.FAILSAFEFDCBOX.COM). NO CAP ALTERNATE SHALL BE ALLOWED.
2. DETAIL IS FOR REFERENCE ONLY. INSTALLATION LOCATION, HEIGHT, NOZZLE CONFIGURATION AND DIRECTION, PAINT COLOR, ETC. SHALL BE COORDINATED WITH THE LOCAL MUNICIPALITY.
3. ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS OF NFPA 13,14 & 24 AND THE REQUIREMENTS OF THE LOCAL & STATE UTILITY AUTHORITY AND THE LOCAL & STATE FIRE JURISDICTION.
4. INSTALLATION SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE PROTECTION FROM VEHICULAR IMPACT AS APPROPRIATE. SUCH PROTECTION MEASURES SHALL BE LOCATED SO AS NOT TO INTERFERE WITH ACCESS TO OR CONNECTION TO THE FDC.
6. SIGN SHALL BE PER CHARLESTON FIRE DEPARTMENT GUIDELINES. SIGN SHALL BE DURABLE PLASTIC OR METAL. SIGN SHALL HAVE "FDC" WRITTEN IN 6" TALL RAISED OR ENGRAVED RED REFLECTIVE LETTERING AND THE ADDRESS IN 2" TALL RAISED OR ENGRAVED RED REFLECTIVE LETTERING. BACKGROUND SHALL WHITE REFLECTIVE. SIGN SHALL BE INSTALLED ON A STURDY POST BEHIND FDC AND SHALL FACE THE FIRE TRUCK ACCESS ROAD. SURROUNDING LANDSCAPE SHALL BE INSTALLED AND MAINTAINED TO ENSURE VISIBILITY OF SIGN AND FDC.

REMOTE FIRE DEPARTMENT CONNECTION



NOTES:
1. DETAIL IS FOR REFERENCE ONLY. INSTALLATION LOCATION, HEIGHT, TARGET CONFIGURATION AND DIRECTION, PAINT COLOR, ETC. SHALL BE COORDINATED WITH THE LOCAL MUNICIPALITY.
2. ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS OF NFPA 24 AND THE REQUIREMENTS OF THE LOCAL & STATE UTILITY AUTHORITY AND THE LOCAL & STATE FIRE JURISDICTION.
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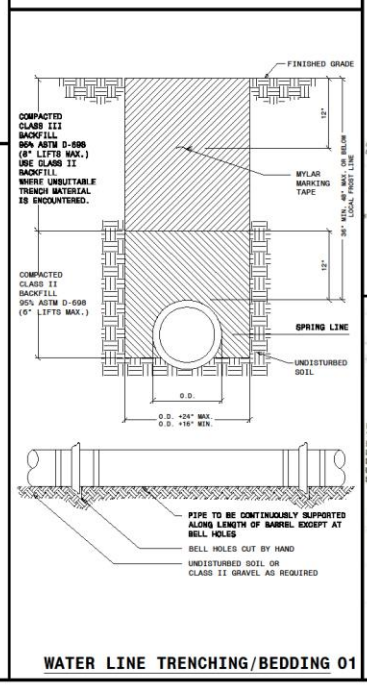
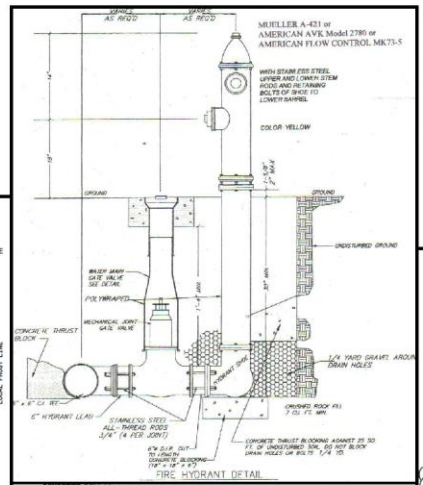
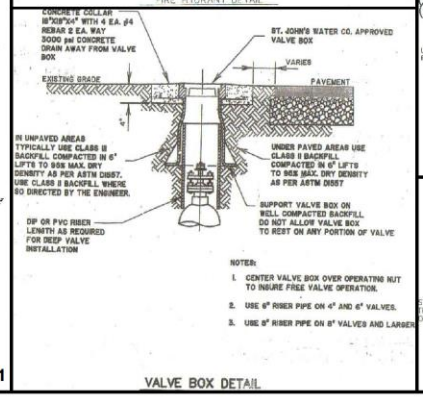
POST-INDICATOR VALVE



WATER LINE TRENCHING/BEDDING 01



FIRE HYDRANT DETAIL



VALVE BOX DETAIL

ST. JOHN'S WATER COMPANY

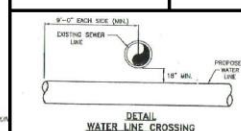
STANDARD MATERIAL SPECIFICATION LIST FOR NEW DEVELOPMENTS

MATERIAL	MANUFACTURER	MODEL	SIZE
Corporation Stop	Mueller	H 15005	½"
Meter Yoke Box (Single)	Ford	FLYLVP221233LNT	5/8" x ½"
Meter Yoke Box (Double)	Ford	SP-FDG228243T	Double 5/8" x ¾"
Fire Hydrant	Mueller	A-421 (yellow)	4 ½" barrel
Fire Hydrant	American AVK With stainless steel upper and lower stem rods and retaining bolts of shoe to lower barrel	2780 (yellow)	4 ½" barrel
Fire Hydrant	American Flow Control	MK73-5 (yellow)	4 ½" barrel
Tubing	Mueller	IPS 2008PE 3408/3406	½"
Instatite	Mueller	IPS 15073	½"

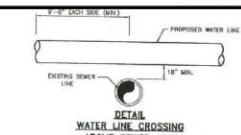
Copper Tracer Wire – Provide a continuous 12-gauge blue insulated copper tracer wire when PVC or polyethylene pipe is used. Locate tracer wire a minimum of 6" above top of water main. Terminate tracer wire at each valve and meter and make provisions to allow for connection of testing apparatus without interfering with the proper operation of valves and meters.

Ductile Iron Pipe – All road crossings and any water line under paving must be poly-wrapped ductile iron pipe.

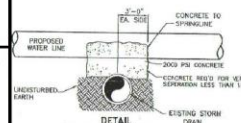
Revised January 2008



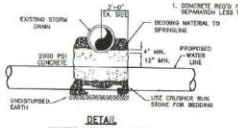
DETAIL
WATER LINE CROSSING
BELOW SEWER LINE
NOT TO SCALE



DETAIL
WATER LINE CROSSING
ABOVE SEWER LINE
NOT TO SCALE



DETAIL
WATER LINE CROSSING
ABOVE STORM DRAIN
NOT TO SCALE



DETAIL
WATER LINE CROSSING
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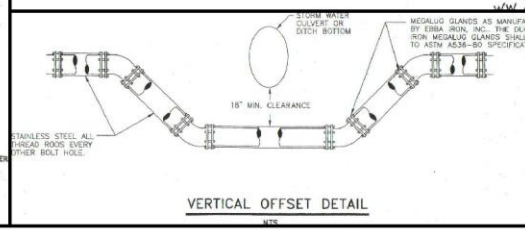
NOT TO SCALE



VERTICAL OFFSET DETAIL

NTS

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CORPORATE SEAL

8/24/20

ARCHITECT/ENGINEER SEAL

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

UTILITY DETAILS

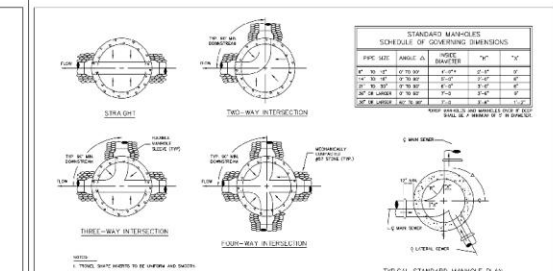
C420

NOTES FOR WASTEWATER SYSTEM:

1. WASTEWATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS", S.C.D.H.E.C. REGULATIONS AND CHARLESTON WATER SYSTEM'S "MINIMUM STANDARDS FOR THE DESIGN & CONSTRUCTION OF WATER AND SANITARY SEWER SYSTEMS" AS FOUND AT www.charlestonwater.com.
2. CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE IN THE PRESENCE OF A CWS REPRESENTATIVE. CONTRACTOR SHALL NOTIFY CWS AT LEAST 72 HOURS BEFORE CONNECTION BEGINS.
3. ROUGH GRADING SHALL BE DONE PRIOR TO INSTALLATION OF WASTEWATER MAINS.
4. NO MANHOLE COVERS ARE ALLOWED IN CURBING. MANHOLES SHALL BE LOCATED OUTSIDE CONCRETE AND ASPHALT PAVING WHENEVER POSSIBLE.
5. CONNECTIONS TO GRAVITY LINES AND MANHOLES SHALL BE EQUAL TO OR GREATER THAN 90° TO THE CONNECTING LINE.
6. CONTRACTOR SHALL INSTALL WATERTIGHT RINGS AND COVERS ON ALL MANHOLES.
7. ALL 4" SEWER SERVICES SHALL BE SDR 26 PVC AND LAID ON A MINIMUM SLOPE OF 1.00% UNLESS OTHERWISE STATED. THE SERVICES SHALL BE CONNECTED TO MANHOLES WHERE REASONABLY POSSIBLE.
8. ALL GRAVITY MAINS SHALL BE SDR 26 PVC UNLESS CONDITIONS REQUIRE PVC C900, C905, OR DUCTILE IRON PIPE.
9. DIP OR PVC C900/C905 FOR WASTEWATER SHALL BE USED:
   - WITH LESS THAN 2' OF SEWER OR GREATER THAN 18' OF COVER.
   - CROSSING STORM DRAINAGE PIPES WITH LESS THAN 18" CLEARANCE.
   - CROSSING GROUP STORM DRAINAGES PIPES WITH LESS THAN 24" OF CLEARANCE.
   - CROSSING WATER MAINS WITH LESS THAN 18" CLEARANCE.
   - BETWEEN CASINGS.
10. LINING FOR DIP FOR WASTEWATER SHALL BE PROTECTO 401 AT 40 MILS THICKNESS.
11. SLEEVES SHALL BE USED TO TRANSITION BETWEEN PVC AND DIP. FITTINGS OF SIMILAR CONFIGURATIONS ARE NOT ALLOWED.
12. WHERE WATER AND SANITARY SEWER LINES CROSS, THE LINE LAID LAST SHALL HAVE A FULL LENGTH OF PIPE INSTALLED WITH ITS BOX/SPOT VERTICALLY IN LINE WITH THE OTHER LINE. THE CROSSING SHALL BE AT NOT LESS THAN A 45° ANGLE.
13. ALL MATERIAL SHALL CONFORM TO CWS SPECIFICATIONS AS TO TYPE, DESIGN, AND MANUFACTURER.
14. DEVELOPER'S ENGINEER SHALL INSPECT PROJECT WEEKLY TO PROVIDE WRITTEN WEEKLY UPDATES AND TO CERTIFY THE CORRECTNESS OF THE WASTEWATER PORTION OF CONTRACTOR'S RECORD DRAWINGS.
15. CONTRACTOR INSTALLING THE WASTEWATER SYSTEM SHALL BE ON CWS'S "APPROVED CONTRACTORS LIST".
16. DEVELOPER SHALL TAKE NECESSARY MEASURES TO PROTECT CWS WASTEWATER SYSTEM DURING THE TIME BETWEEN THE COMMENCEMENT INSPECTION AND FULL 2-YEAR MAINTENANCE BOND INSPECTION.
17. JUST PRIOR TO COMMISSIONING, CONTRACTOR, AT HIS EXPENSE, SHALL TELEVISE IN DVD FORMAT ALL SEWER MAINS AND SERVICES TO CWS'S RECORDS.

Charleston Water System — DETAIL NO. 73 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

THIS DETAIL IS AN "UNCONTROLLED" COPY OF A "CONTROLLED" DOCUMENT. NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WHATSOEVER WITHOUT PRIOR WRITTEN APPROVAL FROM CHARLESTON WATER SYSTEM.



STANDARD MANHOLES
SCHEDULE OF GOVERNING DIMENSIONS

PIPE SIZE	ANGLE A	MINIMUM DIAMETER	"H"	"K"
8" TO 12"	0° TO 30°	4'-0"	2'-0"	0"
14" TO 18"	0° TO 90°	5'-0"	2'-6"	6"
21" TO 30"	0° TO 90°	6'-0"	3'-0"	6"
36" OR LARGER	0° TO 90°	7'-0"	3'-6"	6"
36" OR LARGER	ALL 15.99°	7'-0"	3'-6"	0'-0"

TYPICAL MANHOLE PLAN AND INVERTS
NOT TO SCALE

Charleston Water System — DETAIL NO. 53 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

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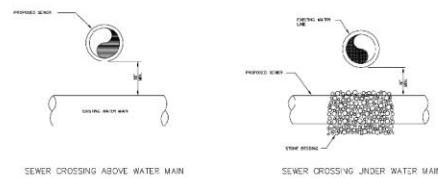
NOTES FOR SEWER OVER WATER MAIN:

1. INSTALL A FULL JOINT OF PIPE FOR WHICHEVER MAIN IS LAID SECOND. IT IS TO BE CENTERED AT CROSSING.
2. IF THE WATER IS EXISTING AND THE MINIMUM CLEARANCE IS NOT MET, THE SEWER SHALL BE PVC C900, C905, OR DUCTILE IRON PIPE. PROVIDE RESTRAINED JOINT FITTINGS WHEN TRANSITIONING FROM SDR 26 PVC. PLACE A LENGTH OF PIPE SO THAT THE JOINTS ARE EQUIDISTANT FROM THE CROSSING.
3. IF THE SEWER IS EXISTING, THE WATER MAIN SHALL MEET THE MINIMUM CLEARANCE.

NOTES FOR SEWER UNDER WATER MAIN:

1. SOIL REPLACED UNDER THE WATER MAIN SHALL BE COMPACTED AS PER CWS MINIMUM STANDARDS FOR WATER MAIN INSTALLATION.
2. IF CLEARANCE IS LESS THAN 18", PVC C900, C905 OR DUCTILE IRON PIPE SHALL BE USED. PROVIDE RESTRAINED JOINT FITTINGS WHEN TRANSITIONING FROM SDR 26 PVC. PLACE A LENGTH OF PIPE SO THAT THE JOINTS ARE EQUIDISTANT FROM THE CROSSING.
3. INSTALL A FULL JOINT OF PIPE FOR WHICHEVER MAIN IS LAID SECOND. IT IS TO BE CENTERED AT CROSSING.



SEWER MAIN CROSSING WATER MAIN
NOT TO SCALE

Charleston Water System — DETAIL NO. 44 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

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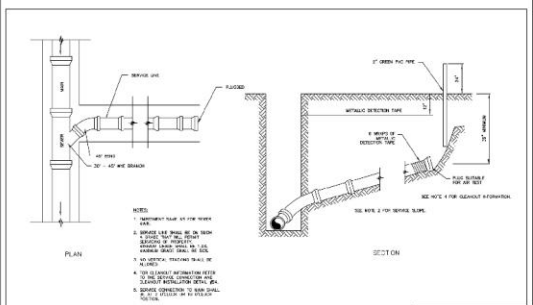

SEWER SERVICE CONNECTION TO MAIN
NOT TO SCALE

Charleston Water System — DETAIL NO. 56 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

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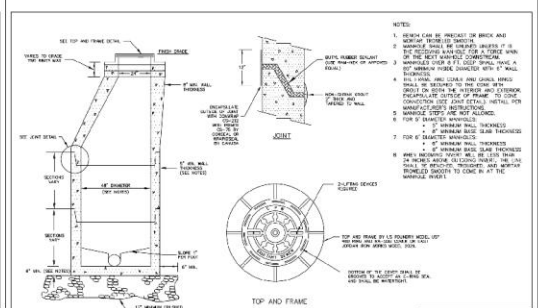

ECCENTRIC CONE PRECAST MANHOLE
NOT TO SCALE

Charleston Water System — DETAIL NO. 47 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

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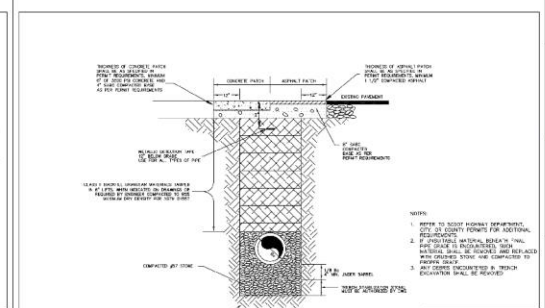

SEWER MAIN UNDER PAVED ROADWAY
NOT TO SCALE

Charleston Water System — DETAIL NO. 43 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

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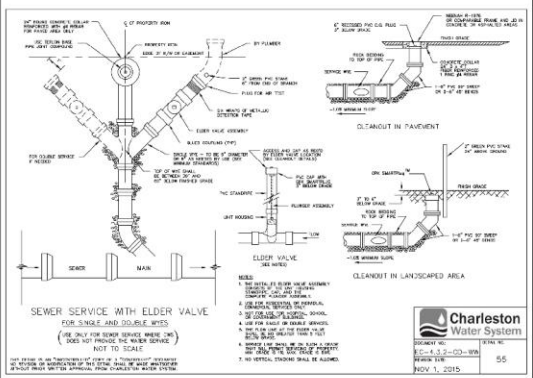

SEWER SERVICE WITH ELDER VALVE
FOR SINGLE AND DOUBLE WYES
(USE ONLY FOR SEWER SERVICE WHERE CWS DOES NOT PROVIDE THE WATER SERVICE)
NOT TO SCALE

Charleston Water System — DETAIL NO. 55 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

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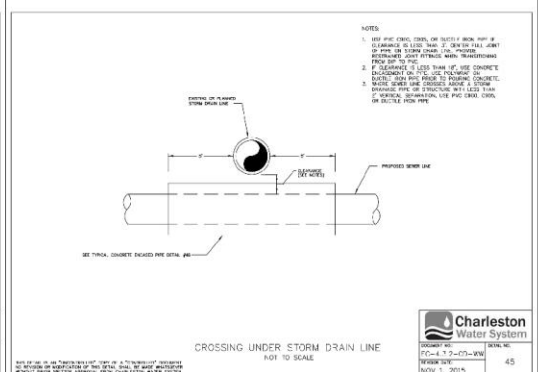

CROSSING UNDER STORM DRAIN LINE
NOT TO SCALE

Charleston Water System — DETAIL NO. 45 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

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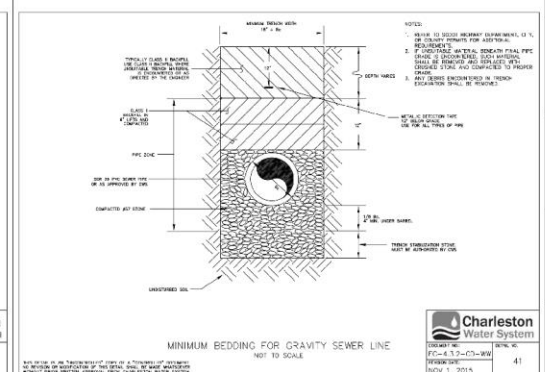

MINIMUM BEDDING FOR GRAVITY SEWER LINE
NOT TO SCALE

Charleston Water System — DETAIL NO. 41 — DOCUMENT NO. EC-4.3.2-00-WW — REVISION DATE NOV 1, 2015

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Hussey, Gay, Bell & DeYoung, Inc.
Consulting Engineers of SC
T 843.849.7300

BROWNSTONE
BROWNSTONE GROUP
4000 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	8/26/2020	ADDENDUM 2- DRB/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

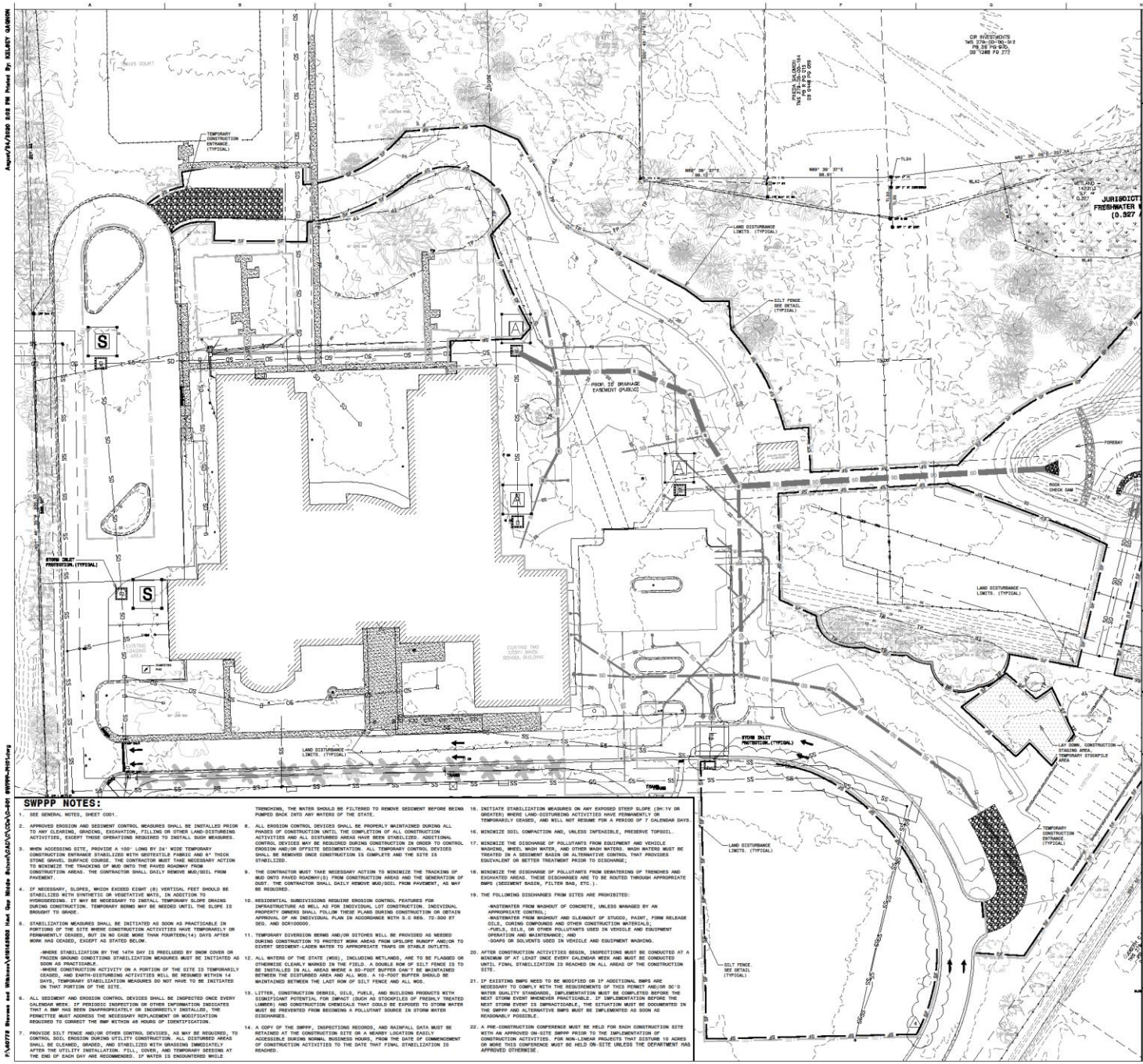
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 BOWICKET RD, JOHNS ISLAND, SC 29455

UTILITY DETAILS

C421



MAP NOTE:

1. ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: ESP ASSOCIATES, INC. DATED 10/30/2019, REVISED 01/31/2020, PREPARED BY AARON TAYLOR, PLS (ATTAYLOR@ESPASSOCIATES.COM AND 843.714.3046) AND DARYN CLOPTON.
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4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

SEQUENCE OF CONSTRUCTION

PHASE I

1. COORDINATE AND ATTEND REQUIRED PRE-CONSTRUCTION CONFERENCE AT CITY OFFICES PRIOR TO INSTALLATION OF SILT FENCE AND TREE PROTECTION.
2. CLEAR AND GRUB (20' WIDE AREA MAX) AS NECESSARY TO INSTALL SILT FENCE, TREE PROTECTION BARRICADES AND PERIMETER CONTROLS AND TEMPORARY CONSTRUCTION ENTRANCE. INSTALL SILT FENCE, PERIMETER CONTROLS, TREE PROTECTION, TEMPORARY CONSTRUCTION ENTRANCE, AND EXISTING INLET PROTECTION BARRICADES TO MAINTAIN THROUGHOUT CONSTRUCTION.
3. CALL FOR SILT FENCE AND TREE PROTECTION INSPECTIONS.
4. CALL FOR SWPPP PRE-CONSTRUCTION CONFERENCE.
5. CONTRACTOR SHALL CONTACT CITY OF CHARLESTON'S PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO CONSTRUCTION.
6. STAKE OUT AND CLEAR AND GRUB AREA FOR SEDIMENT BASIN AND EXPANSION OF DETENTION POND AND STOCKPILE AREA.
7. CONVERT EXISTING POND INTO SEDIMENT BASIN AND INSTALL ROCK CHECK DAMS PER LOCATION ON PLANS AND POROUS BAFFLES PER DETAIL.
8. CLEAR AND GRUB REMAINDER OF LIMITS OF DISTURBANCE AND PERFORM DEMOLITION ACTIVITIES.
9. USE EROSION CONTROL PREVENTION PER PLANS AS NECESSARY.
10. CUT AND FILL SITE TO GRADE.

PHASE II

11. INSTALL ALL SITE UTILITIES INCLUDING STORM SYSTEM, DETENTION POND EXPANSION, AND NEW OUTFALL STRUCTURE. CONVERT SEDIMENT BASIN INTO POND WHERE APPLICABLE.
12. INSTALL INLET PROTECTION.
13. MAINTAIN SILT FENCE AND INLET PROTECTION THROUGHOUT PHASED CONSTRUCTION FOR SITE IMPROVEMENTS AND BUILDINGS. MODIFY INLET PROTECTION AND SILT FENCE LOCATIONS BASED UPON SITE IMPROVEMENT CONSTRUCTION PHASES.
14. BEGIN BUILDING CONSTRUCTION.
15. ONCE DETENTION POND EXPANSION IS COMPLETE AND OUTFALL STRUCTURE MODIFICATIONS AND PIPES ARE INSTALLED, INSTALL PERMANENT STABILIZATION WITHIN CONSTRUCTION BUFFER ADJACENT TO WETLANDS AND INSTALL CONSTRUCTION BARRICADE AT BUFFER LINE TO PREVENT CONSTRUCTION TRAFFIC FORM ENTERING CONSTRUCTION BUFFER.
16. INSTALL PARKING AREA. REPLACE TYPE "A" INLET PROTECTION WITH SILTSACKS TYPE "S" AS CURBS ARE CONSTRUCTED AND PARKING BASE COURSE IS INSTALLED. TYPE "F" INLET PROTECTION SHALL REMAIN IN PLACE & BE MAINTAINED THROUGHOUT CONSTRUCTION.
17. CONTRACTOR SHALL ADJUST SILT FENCE IN PROPOSED DRIVEWAY AREAS DURING DRIVEWAY CONSTRUCTION. CONTRACTOR SHALL INSTALL SEDIMENT TUBES TO REPLACE SILT FENCE DURING DRIVEWAY CONSTRUCTION.
18. PROCEED WITH FINE GRADING, LANDSCAPING AND GRASSING.
19. CONTACT CITY OF CHARLESTON'S PUBLIC WORKS DEPARTMENT TO SCHEDULE FINAL INSPECTION AND CLOSEOUT OF PROJECT.
20. REMOVE EROSION CONTROL DEVICES AFTER SOIL STABILIZATION AND AGENCY APPROVAL.

*NEWKIRK WILL BE THE SWPPP INSPECTOR UTILIZED BY THE OWNER ON THIS PROJECT. ALL SILT FENCING INSPECTIONS AND REPORTING WILL BE UNDER THE AUTHORITY OF NEWKIRK AS THEY ARE UNDER CONTRACT FOR ALL CCSD PROJECTS. **CONTRACTOR WILL COORDINATE WITH MIKE JOHNSON, CCSD GROUNDS MANAGER, CELL 843-607-5145, MIKE.JOHNSON@CHARLESTON.K12.SC.US, AND RONNIE SAVAGE, CCSD IRRIGATION SPECIALIST,CELL 843-297-0824 RONALD.SAVAGE@CHARLESTON.K12.SC.US, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TO COORDINATE WORK TO OR NEAR EXISTING IRRIGATION LINES TO AVOID DAMAGE TO LINE DURING CONSTRUCTION.

LEGEND

- SF — SILT FENCE
- STORM INLET STRUCTURES
- SD — STORM DRAIN PIPE
- LIMITS OF DISTURBANCE = ± 6.6 ACRES
- TEMPORARY STOCKPILE LOCATION

SITE DATA

PARCEL AREA	SF = 23.75 ACRES
DISTURBED AREA	SF = 6.61 ACRES
PRE CONSTRUCTION PARCEL PERVIOUS AREA	SF = 17.06 ACRES
PRE CONSTRUCTION PARCEL IMPERVIOUS AREA	SF = 5.96 ACRES
POST CONSTRUCTION PARCEL PERVIOUS AREA	SF = 16.16 ACRES
POST CONSTRUCTION PARCEL IMPERVIOUS AREA	SF = 7.62 ACRES

GRAPHIC SCALE
NORTH 30 0 15 30
1 INCH = 30 FT
NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

SWPPP NOTES:

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3. WHEN ACCESSING SITE, PROVIDE A 100' LONG BY 24' WIDE TEMPORARY CONSTRUCTION ENTRANCE STABILIZED WITH GEOTEXTILE FABRIC AND 6" THICK STONE GRAVEL SURFACE COURSE. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT.
4. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
5. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN(14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

   -WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   -WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
6. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
7. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
8. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
9. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
10. RESIDENTIAL SUBDIVISSONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR150000.
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14. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
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16. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
17. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;
18. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
19. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

   -WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
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PROJECT CLOSEOUT NOTE:

1. UPON COMPLETION OF CONSTRUCTION FOR THIS PHASE OF THIS DEVELOPMENT, THE OWNER SHALL PROVIDE THE CITY OF CHARLESTON WITH AN ASBUILT OF THE COMPLETED STORM DRAINAGE SYSTEM, A FINAL INSPECTION REPORT (PREPARED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER), AND A PROJECT CLOSEOUT APPLICATION FORM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2.8.2 OF THE CITY OF CHARLESTON STORMWATER DESIGN STANDARDS MANUAL. THE OWNER SHALL PROVIDE A CERTIFICATION ON THE PROJECT CLOSEOUT APPLICATION FORM.

CALL 811 BEFORE YOU DIG — SAFE DIGGING PARTNER

S&W ARCHITECTURE ENGINEERING INTERIORS
STEVENS & WILKINSON
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RED IRON ARCHITECTS
4891 DURANT AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405

HUSSEY GAY BELL — Established 1938
Hussey, Gay, Bell & DeYoung, Inc.
Consulting Engineers of SC
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4000 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

No. 23360 — 8/24/20

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION
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■ PROJECT NUMBER: 19065.00
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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SWPPP - PHASE 1

C501

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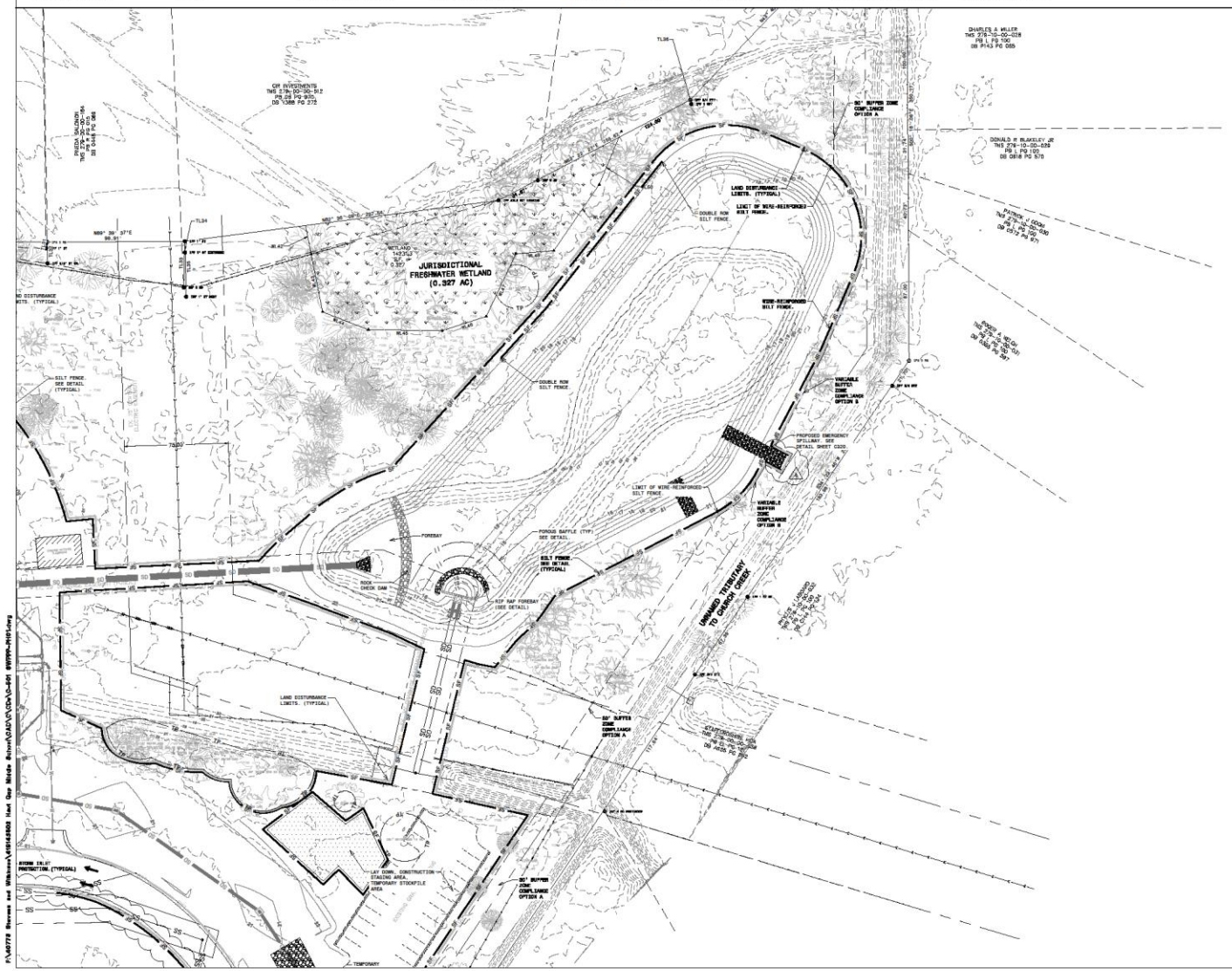

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6. STAKE OUT AND CLEAR AND GRUB AREA FOR SEDIMENT BASIN AND EXPANSION OF DETENTION POND AND STOCKPILE AREA.
7. CONVERT EXISTING POND INTO SEDIMENT BASIN AND INSTALL ROCK CHECK DAMS PER LOCATION ON PLANS AND POROUS BAFFLES PER DETAIL.
8. CLEAR AND GRUB REMAINDER OF LIMITS OF DISTURBANCE AND PERFORM DEMOLITION ACTIVITIES.
9. USE EROSION CONTROL PREVENTION PER PLANS AS NECCESSARY.
10. CUT AND FILL SITE TO GRADE.

PHASE II

11. INSTALL ALL SITE UTILITIES INCLUDING STORM SYSTEM, DETENTION POND EXPANSION, AND NEW OUTFALL STRUCTURE. CONVERT SEDIMENT BASIN INTO POND WHERE APPLICABLE.
12. INSTALL INLET PROTECTION.
13. MAINTAIN SILT FENCE AND INLET PROTECTION THROUGHOUT PHASED CONSTRUCTION FOR SITE IMPROVEMENTS AND BUILDINGS. MODIFY INLET PROTECTION AND SILT FENCE LOCATIONS BASED UPON SITE IMPROVEMENT CONSTRUCTION PHASES.
14. BEGIN BUILDING CONSTRUCTION.
15. ONCE DETENTION POND EXPANSION IS COMPLETE AND OUTFALL STRUCTURE MODIFICATIONS AND PIPES ARE INSTALLED, INSTALL PERMANENT STABILIZATION WITHIN CONSTRUCTION BUFFER ADJACENT TO WETLANDS AND INSTALL CONSTRUCTION BARRICADE AT BUFFER LINE TO PREVENT CONSTRUCTION TRAFFIC FORM ENTERING CONSTRUCTION BUFFER.
16. INSTALL PARKING AREA. REPLACE TYPE "A" INLET PROTECTION WITH SILTSACKS TYPE "S" AS CURBS ARE CONSTRUCTED AND PARKING BASE COURSE IS INSTALLED. TYPE "F" INLET PROTECTION SHALL REMAIN IN PLACE & BE MAINTAINED THROUGHOUT CONSTRUCTION.
17. CONTRACTOR SHALL ADJUST SILT FENCE IN PROPOSED DRIVEWAY AREAS DURING DRIVEWAY CONSTRUCTION. CONTRACTOR SHALL INSTALL SEDIMENT TIDES TO REPLACE SILT FENCE DURING DRIVEWAY CONSTRUCTION.
18. PROCEED WITH FINE GRADING, LANDSCAPING AND GRASSING.
19. CONTACT CITY OF CHARLESTON'S PUBLIC WORKS DEPARTMENT TO SCHEDULE FINAL INSPECTION AND CLOSEOUT OF PROJECT.
20. REMOVE EROSION CONTROL DEVICES AFTER SOIL STABILIZATION AND AGENCY APPROVAL.

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LEGEND

- SF — SILT FENCE
- STORM INLET STRUCTURES
- SD — STORM DRAIN PIPE
- LIMITS OF DISTURBANCE = ± 6.6 ACRES
- TEMPORARY STOCKPILE LOCATION

SITE DATA

PARCEL AREA	SF = 23.75 ACRES
DISTURBED AREA	SF = 6.61 ACRES
PRE CONSTRUCTION PARCEL PERVIOUS AREA	SF = 17.06 ACRES
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GRAPHIC SCALE
NORTH 30 0 15 30
1 INCH = 30 FT
NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

PROJECT CLOSEOUT NOTE:

1. UPON COMPLETION OF CONSTRUCTION FOR THIS PHASE OF THIS DEVELOPMENT, THE OWNER SHALL PROVIDE THE CITY OF CHARLESTON WITH AN ASBUILT OF THE COMPLETED STORM DRAINAGE SYSTEM, A FINAL INSPECTION REPORT (PREPARED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER), AND A PROJECT CLOSEOUT APPLICATION FORM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2.8.2 OF THE CITY OF CHARLESTON STORMWATER DESIGN STANDARDS MANUAL. THE OWNER SHALL PROVIDE A CERTIFICATION ON THE PROJECT CLOSEOUT APPLICATION FORM.

S&W
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CORPORATE SEAL

No. 23360
8/24/20
ARCHITECT/ENGINEER SEAL

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■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
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CONSTRUCTION DOCUMENTS

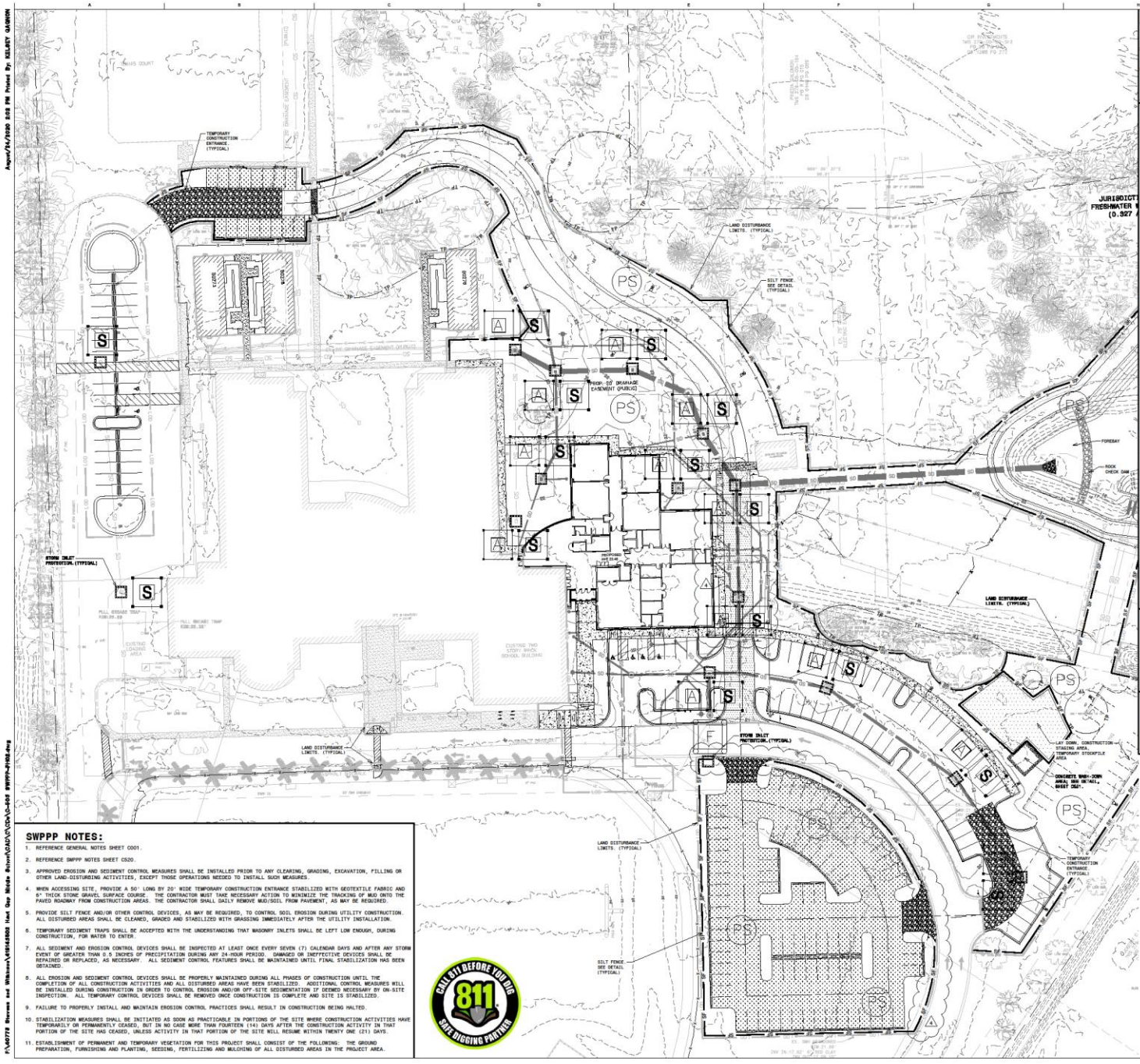
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SWPPP - PHASE 1

C502



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4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

SEQUENCE OF CONSTRUCTION

PHASE I

1. COORDINATE AND ATTEND REQUIRED PRE-CONSTRUCTION CONFERENCE AT CITY OFFICES PRIOR TO INSTALLATION OF SILT FENCE AND TREE PROTECTION.
2. CLEAR AND GRUB (20' WIDE AREA MAX) AS NECESSARY TO INSTALL SILT FENCE, TREE PROTECTION BARRICADES AND PERIMETER CONTROLS AND TEMPORARY CONSTRUCTION ENTRANCE. INSTALL SILT FENCE, PERIMETER CONTROLS, TREE PROTECTION, TEMPORARY CONSTRUCTION ENTRANCE, AND EXISTING INLET PROTECTION BARRICADES TO MAINTAIN THROUGHOUT CONSTRUCTION.
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4. CALL FOR SWPPP PRE-CONSTRUCTION CONFERENCE.
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SWPPP NOTES:

1. REFERENCE GENERAL NOTES SHEET C001.
2. REFERENCE SWPPP NOTES SHEET C520.
3. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING OR OTHER LAND-DISTURBING ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
4. WHEN ACCESSING SITE, PROVIDE A 50' LONG BY 20' WIDE TEMPORARY CONSTRUCTION ENTRANCE STABILIZED WITH GEOTEXTILE FABRIC AND 6" THICK STONE GRAVEL SURFACE COURSE. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
5. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
6. TEMPORARY SEDIMENT TRAPS SHALL BE ACCEPTED WITH THE UNDERSTANDING THAT MASONRY INLETS SHALL BE LEFT LOW ENOUGH, DURING CONSTRUCTION, FOR WATER TO ENTER.
7. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
8. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION IF DEEMED NECESSARY BY ON-SITE INSPECTION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND SITE IS STABILIZED.
9. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN TWENTY ONE (21) DAYS.
11. ESTABLISHMENT OF PERMANENT AND TEMPORARY VEGETATION FOR THIS PROJECT SHALL CONSIST OF THE FOLLOWING: THE GROUND PREPARATION, FURNISHING AND PLANTING, SEEDING, FERTILIZING AND MULCHING OF ALL DISTURBED AREAS IN THE PROJECT AREA.

CALL 811 BEFORE YOU DIG — 811 — SAFE DIGGING PARTNER

GRAPHIC SCALE: NORTH; 30 0 15 30; 1 INCH = 30 FT

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CORPORATE SEAL

8/24/20

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

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■ APPROVED FOR CONSTRUCTION
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Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SWPPP - PHASE 2

C503

August/24/2020 3:03 PM Plotted By: KELLEY GAUNON
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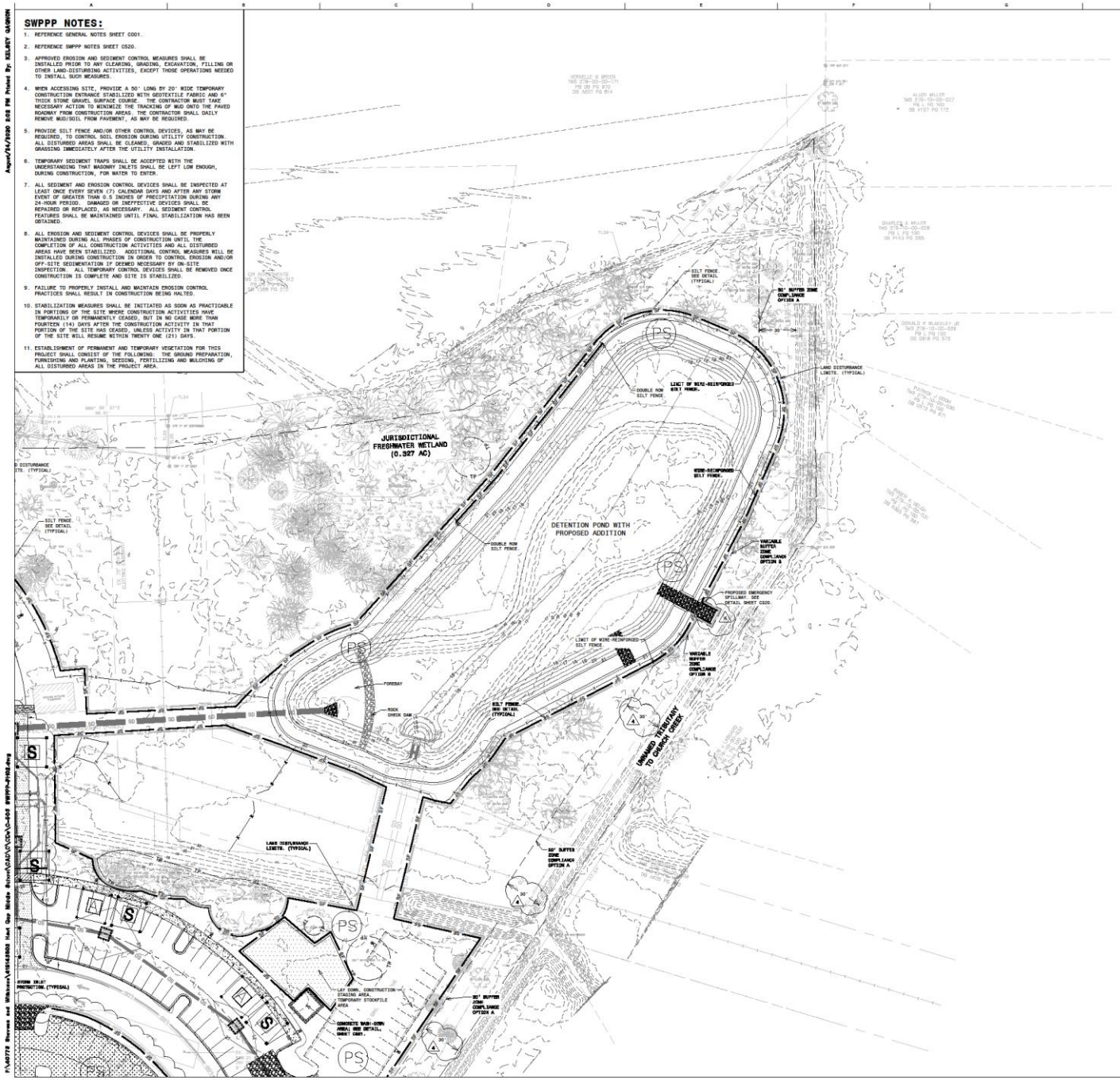

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CORPORATE SEAL

No. 23360 — 8/24/20 — ARCHITECT/ENGINEER SEAL

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■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SWPPP - PHASE 2

C504

F:\40778 Stevens and Wilkinson\419143502 Haut Gap Middle School\CAD\C\CDs\C-520 SWPPP DETAILS.dwg August/24/2020 2:03 PM Printed By: KELSEY GAGNON

STORM WATER POLLUTION PREVENTION PLAN

CONTRACTOR'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
1861 BOHICKET ROAD
JOHNS ISLAND, SC 29455

OWNER NAME AND ADDRESS:
CHARLESTON COUNTY SCHOOL DISTRICT
3999 BRIDGE VIEW DRIVE
NORTH CHARLESTON, SC 29405

DESCRIPTION:
EXISTING USE OF LAND: INSTITUTIONAL
PROPOSED USE OF LAND: INSTITUTIONAL

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
EARTHWORK, GRADING, UTILITY RELOCATION, CONSTRUCTION OF SCHOOL ADDITION WITH ADDITIONAL PARKING, DETENTION POND EXPANSION AND PREPARATION FOR FINAL PLANTING AND SEEDING.

DISTURBED AREA:
6.6 ACRES

NAME OF RECEIVING WATERS:
UNNAMED TRIBUTARY OF THE CHURCH CREEK/BOHICKET CREEK

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION CAUSED BY STORM WATER RUN OFF. AN EROSION PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS.

CONSTRUCTION SEQUENCE

PHASE I
1. COORDINATE AND ATTEND REQUIRED PRE-CONSTRUCTION CONFERENCE AT CITY OFFICES PRIOR TO INSTALLATION OF SILT FENCE AND TREE PROTECTION.
2. CLEAR AND GRUB (20' WIDE AREA MAX) AS NECESSARY TO INSTALL SILT FENCE, TREE PROTECTION BARRICADES AND PERIMETER CONTROLS AND TEMPORARY CONSTRUCTION ENTRANCE. INSTALL SILT FENCE, PERIMETER CONTROLS, TREE PROTECTION, TEMPORARY CONSTRUCTION ENTRANCE, AND EXISTING INLET PROTECTION BARRICADES TO MAINTAIN THROUGHOUT CONSTRUCTION.
3. CALL FOR SILT FENCE AND TREE PROTECTION INSPECTIONS.
4. CALL FOR SWPPP PRE-CONSTRUCTION CONFERENCE.
5. CONTRACTOR SHALL CONTACT CITY OF CHARLESTON'S PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO CONSTRUCTION.
6. STAKE OUT AND CLEAR AND GRUB AREA FOR SEDIMENT BASIN AND EXPANSION OF DETENTION POND AND STOCKPILE AREA.
7. CONVERT EXISTING POND INTO SEDIMENT BASIN AND INSTALL ROCK CHECK DAMS PER LOCATION ON PLANS AND POROUS BAFFLES PER DETAIL.
8. CLEAR AND GRUB REMAINDER OF LIMITS OF DISTURBANCE AND PERFORM DEMOLITION ACTIVITIES.
9. USE EROSION CONTROL PREVENTION PER PLANS AS NECESSARY.
10. CUT AND FILL SITE TO GRADE.

PHASE II
11. INSTALL ALL SITE UTILITIES INCLUDING STORM SYSTEM, DETENTION POND EXPANSION, AND NEW OUTFALL STRUCTURE. CONVERT SEDIMENT BASIN INTO POND WHERE APPLICABLE.
12. INSTALL INLET PROTECTION.
13. MAINTAIN SILT FENCE AND INLET PROTECTION THROUGHOUT PHASED CONSTRUCTION FOR SITE IMPROVEMENTS AND BUILDINGS. MODIFY INLET PROTECTION AND SILT FENCE LOCATIONS BASED UPON SITE IMPROVEMENT CONSTRUCTION PHASES.
14. BEGIN BUILDING CONSTRUCTION.
15. ONCE DETENTION POND EXPANSION IS COMPLETE AND OUTFALL STRUCTURE MODIFICATIONS AND PIPES ARE INSTALLED, INSTALL PERMANENT STABILIZATION WITHIN CONSTRUCTION BUFFER ADJACENT TO WETLANDS AND INSTALL CONSTRUCTION BARRICADE AT BUFFER LINE TO PREVENT CONSTRUCTION TRAFFIC FORM ENTERING CONSTRUCTION BUFFER.
16. INSTALL PARKING AREA. REPLACE TYPE "A" INLET PROTECTION WITH SILTSACKS TYPE "S" AS CURBS ARE CONSTRUCTED AND PARKING BASE COURSE IS INSTALLED. TYPE "F" INLET PROTECTION SHALL REMAIN IN PLACE & BE MAINTAINED THROUGHOUT CONSTRUCTION.
17. CONTRACTOR SHALL ADJUST SILT FENCE IN PROPOSED DRIVEWAY AREAS DURING DRIVEWAY CONSTRUCTION. CONTRACTOR SHALL INSTALL SEDIMENT TUBES TO REPLACE SILT FENCE DURING DRIVEWAY CONSTRUCTION.
18. PROCEED WITH FINE GRADING, LANDSCAPING AND GRASSING.
19. CONTACT CITY OF CHARLESTON'S PUBLIC WORKS DEPARTMENT TO SCHEDULE FINAL INSPECTION AND CLOSEOUT OF PROJECT.
20. REMOVE EROSION CONTROL DEVICES AFTER SOIL STABILIZATION AND AGENCY APPROVAL.

*NEWKIRK WILL BE THE SWPPP INSPECTOR UTILIZED BY THE OWNER ON THIS PROJECT. ALL SILT FENCING INSPECTIONS AND REPORTING WILL BE UNDER THE AUTHORITY OF NEWKIRK AS THEY ARE UNDER CONTRACT FOR ALL CCSD PROJECTS.
**CONTRACTOR WILL COORDINATE WITH MIKE JOHNSON, CCSD GROUNDS MANAGER, CELL 843-607-5145, MIKE_JOHNSON@CHARLESTON.K12.SC.US, AND RONNIE SAVAGE, CCSD IRRIGATION SPECIALIST, CELL 843-297-0624 RONALD_SAVAGE@CHARLESTON.K12.SC.US, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TO COORDINATE WORK TO OR NEAR EXISTING IRRIGATION LINES TO AVOID DAMAGE TO LINE DURING CONSTRUCTION.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROLS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND SEDIMENT CONTROL REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

1. FILTER FABRIC BARRIER (SILT FENCE):
FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER M IS 33 PERCENT.

B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 1 ACRES. REFER TO SCDHEC DETAIL #SC-07 FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.

C. ALL AREAS WITHIN' 50' OF AN IDENTIFIED WETLAND WILL BE PROTECTED BY A DOUBLE ROW OF SILT FENCE.

CONTROLS

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES (CONT.)

2. TEMPORARY SEEDING:
AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 14 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

3. TEMPORARY SEEDING AND MULCHING:
SLOPES STEEPER THAN 5:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

4. TEMPORARY GRASSING:
THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

5. TEMPORARY REGRASSING:
IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

6. MAINTENANCE:
ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

7. PERMANENT SEEDING:
ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

OTHER CONTROLS

WASTE DISPOSAL

1. WASTE MATERIALS:
ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

2. HAZARDOUS WASTE:
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

3. PORTA-JOHNS AND WASTE RECEPTICALS:
PORTA-JOHNS SHOULD BE PLACED AWAY FROM WOS AND NOT PLACED ON CATCH BASINS AND OTHER DRAINAGE STRUCTURES. LITTER AND CONSTRUCTION DEBRIS SHOULD BE PLACED IN IDENTIFIED AREAS AND EMPTIED ON A ROUTINE BASIS.

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

1. PETROLEUM PRODUCTS:
ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

2. FERTILIZERS:
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

MAINTENANCE/INSPECTION PROCEDURES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK.
* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS AVAILABLE IN THE SWPPP REPORT. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE (3) INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE MAINTENANCE REPORT.
* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

GRADING NOTES

1. IF DISCREPANCIES DEVELOP BETWEEN THE PROPOSED GRADES, AS SHOWN ON THE PLAN AND THE EXISTING GROUND SURFACE, THE CONTRACTOR WITH PRIOR APPROVAL OF THE ENGINEER SHALL MAKE GRADING ADJUSTMENTS NECESSARY TO MAINTAIN THE GENERAL INTENT OF THE PLAN DESIGN.
2. CONTRACTOR SHALL REMOVE ALL DEBRIS AND OTHER MATERIALS RESULTING FROM DEMOLITION AND DISPOSE OFF SITE UNLESS OTHERWISE ADVISED BY OWNER.
3. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL, WHEN GRADING BETWEEN CONTOURS AND BETWEEN POINTS OF SPOT ELEVATIONS, GRADE ON A UNIFORM SLOPE.
5. ALL NEWLY CONSTRUCTED SLOPES WHICH ARE STEEPER THAN 2.5 TO 1 MUST BE STABILIZED BY INSTALLATION OF EROSION CONTROL REVEGETATIVE MAT, PRODUCT AND MUST BE APPROVED BY ENGINEER.
6. CONTRACTOR SHALL FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.

SEDIMENT & EROSION CONTROL NOTES

PERMANENT SEEDING:

A MAJOR CONSIDERATION IN THE SELECTION OF THE TYPE OF PERMANENT GRASS TO ESTABLISH IS THE INTENDED USE OF THE LAND (HIGH-MAINTENANCE AND LOW MAINTENANCE). SEE TABLE FOR EXAMPLE SEEDING MIXES.

FERTILIZER:
APPLY A MINIMUM OF 1000 POUNDS PER ACRE OF A COMPLETE 10-10-10 FERTILIZER (23 POUNDS PER 1000 SQUARE FEET) OR EQUIVALENT DURING PERMANENT SEEDING OF GRASSES UNLESS A SOIL TEST INDICATES A DIFFERENT REQUIREMENT.
INCORPORATE FERTILIZER AND LIME (IF USED) INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR OTHER MEANS WHERE CONDITIONS ALLOW. DO NOT MIX THE LIME AND THE FERTILIZER PRIOR TO THE FIELD APPLICATION.

SEEDING:
LOOSEN THE SURFACE OF THE SOIL JUST BEFORE BROADCASTING THE SEED. EVENLY APPLY SEED BY THE MOST CONVENIENT METHOD AVAILABLE FOR THE TYPE OF SEED APPLIED AND THE LOCATION OF THE SEEDING. COVER APPLIED SEED BY RAKING OR DRAGGING A CHAIN OR BRUSH MAT, AND THEN LIGHTLY FIRM THE AREA WITH A ROLLER OR CULTIPACKER. DO NOT ROLL SEED THAT IS APPLIED WITH A HYDRO-SEEDER AND HYDRO-MULCH.

RE-SEEDING:
INSPECT PERMANENTLY SEEDED AREAS FOR FAILURE, MAKE NECESSARY REPAIRS AND RE-SEED OR OVERSEED WITHIN THE SAME GROWTH SEASON IF POSSIBLE. IF THE GRASS COVER IS SPARSE OR PATCHY, RE-EVALUATE THE CHOICE OF GRASS AND QUANTITIES OF LIME AND FERTILIZER APPLIED. FINAL STABILIZATION BY PERMANENT SEEDING OF THE SITE REQUIRES THAT IT BE COVERED BY A 70% COVERAGE RATE.

1. INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RE-SEED IMMEDIATELY. CONDUCT A FOLLOW-UP SURVEY AFTER ONE YEAR AND REPLACE FAILED PLANTS WHERE NECESSARY.
2. IF VEGETATIVE COVER IS INADEQUATE TO PREVENT RILL EROSION, OVERSEED AND FERTILIZE IN ACCORDANCE WITH SOIL TEST RESULTS.
3. IF A STAND OF PERMANENT VEGETATION HAS LESS THAN 40 PERCENT COVER, RE-EVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER.
4. RE-ESTABLISH THE STAND FOLLOWING SEED BED PREPARATION AND SEEDING RECOMMENDATIONS, OMITTING LIME AND FERTILIZER IN THE ABSENCE OF SOIL TEST RESULTS.
5. FINAL STABILIZATION OF THE SITE REQUIRES A 70 PERCENT OVERALL COVERAGE RATE. THIS DOES NOT MEANS 30 PERCENT OF THE SITE CAN REMAIN BARE. THE COVERAGE IS DEFINED AS LOOKING AT A SQUARE YARD OF COVERAGE, IN WHICH 70 PERCENT OF THAT SQUARE YARD IS COVERED WITH VEGETATION.

STANDARD SCDHEC NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THENECESSARY REPLACEMENT OR MIDIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH SC REG. 72-300 ET SEQ. AND SCR100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
11. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASINS, FILTER BAG, ETC.).
16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
    - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
    - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.
    - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.
    - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF ATLEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS OR NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

ENGINEERS'S CERTIFICATION

"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 7-ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

SIGNED: [signature]

DATED: 8/24/20

PROJECT CLOSEOUT NOTE:

1. UPON COMPLETION OF CONSTRUCTION, THE OWNER SHALL PROVIDE THE CITY OF CHARLESTON WITH AN AS-BUILT OF THE COMPLETED STORM DRAINAGE SYSTEM. A FINAL INSPECTION REPORT (PREPARED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER), AND A PROJECT CLOSEOUT APPLICATION FORM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2.2.2 OF THE CITY OF CHARLESTON STORMWATER DESIGN MANUAL. THE OWNER SHALL PROVIDE A CERTIFICATION ON THE PROJECT CLOSEOUT APPLICATION FORM.

SEEDING SCHEDULES

TEMPORARY SEEDING

SPECIES	lbs./ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BROWNTOP MILLET (ALONE)	40				■	■	■	■	■				
BROWNTOP MILLET (MIX)	10				■	■	■	■	■				
RYE, GRAIN (ALONE)	56		■	■						■	■	■	■
RYE, GRAIN (MIX)	10		■	■						■	■	■	■
RYEGRASS (ALONE)	50									■	■	■	
RYEGRASS (MIX)	8									■	■	■	
FOR STEEP SLOPES/CUT SLOPES													
WEEPING LOVEGRASS (ALONE)	4				■	■	■	■					
WEEPING LOVEGRASS (MIX)	2				■	■	■	■					

PERMANENT SEEDING

SPECIES	lbs./ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BAHIAGRASS (ALONE)	40				■	■	■	■					
BAHIAGRASS (MIX)	30				■	■	■	■					
BERMUDAGRASS (HULLED) (ALONE)	8-12					■	■	■	■				
BERMUDAGRASS (HULLED) (MIX)	4-6					■	■	■	■				
FESCUE, TALL (KY31) ALONE	40									■	■	■	■
FESCUE, TALL (KY31) MIX	20									■	■	■	■
SERICEA LESPEDEZA (SACRIFICED) ALONE OR MIX	40					■	■	■					
LADINO CLOVER (MIX ONLY)	2									■	■	■	■
FOR STEEP SLOPES/CUT SLOPES													
WEEPING LOVEGRASS (ALONE)	4					■	■	■	■				
WEEPING LOVEGRASS (MIX)	2					■	■	■	■				
CROWNVETCH (MIX) TYPE M INOCULANT	8-10			■	■	■							

PERMANENT WATER QUALITY

SUMMARY OF MAINTENANCE REQUIREMENTS

REQUIRED MAINTENANCE	FREQUENCY
MOW GRASS TO MAINTAIN DESIGN HEIGHT (NO LESS THAN 4")	PERIODICALLY
REMOVE LITTER AND DEBRIS.	PERIODICALLY
INSPECT FOR EROSION, RILLS AND GULLIES, AND REPAIR.	ANNUAL, OR AS NEEDED
REPAIR SPARSE VEGETATION.	ANNUAL, OR AS NEEDED
INSPECT TO ENSURE THAT GRASS HAS ESTABLISHED. IF NOT, REPLACE WITH AN ALTERNATIVE SPECIES.	ANNUAL, OR AS NEEDED
NUTRIENT AND PESTICIDE MANAGEMENT.	NONE

TEMPORARY SEEDING SCHEDULE:

JANUARY 1 - MAY 1	
RYE (GRAIN)	120 LB/AC
ANNUAL LESPEDEZA	50 LB/AC
MULCH (STRAW)	4000 LB/AC
AGRICULTURAL LIMESTONE	2000 LB/AC
FERTILIZER 10-10-10	500 LB/AC
MAY 1 - AUGUST 15	
GERMAN MILLET	40 LB/AC
MULCH (STRAW)	4000 LB/AC
AGRICULTURAL LIMESTONE	2000 LB/AC
FERTILIZER 10-10-10	500 LB/AC
AUGUST 15 - DECEMBER 30	
RYE (GRAIN)	120 LB/AC
MULCH (STRAW)	4000 LB/AC
AGRICULTURAL LIMESTONE	2000 LB/AC
FERTILIZER 10-10-10	500 LB/AC

PERMANENT SEEDING SCHEDULE:

FEBRUARY 1 - MARCH 31, AUGUST 20 - OCTOBER 25 GRASS SHALL BE PROVIDED FOR ALL DISTURBED AREAS. FERTILIZER SHALL BE COMMERCIAL TYPE 10-10-10. LIME SHALL BE AGRICULTURAL GRADE GROUND LIMESTONE, % MAGNESIUM CARBONATE. SEED CONTAINING AT LEAST 34 % PURITY AND 80 SHALL BE BERMUDA, MINIMUM 90 % GERMINATION. AREAS TO BE GRASSED SHALL BE SCARIFIED CULTIVATED TO A DEPTH OF 3 INCHES, WITH ALL CLODS OR CLUMPS BROKEN UP AND FOREIGN MATERIAL AND DEBRIS REMOVED. FERTILIZER SHALL BE APPLIED AT A MINIMUM RATE OF 1000 LB/AC. LIME SHALL BE APPLIED AT A MINIMUM RATE OF 3000 LB/AC. FERTILIZER AND LIME SHALL BE THOROUGHLY WORKED INTO THE SOIL, AND THE SURFACE RAKED SMOOTH BEFORE APPLYING SEED. SEED SHALL BE APPLIED EVENLY AT THE MINIMUM RATE OF 130 LB/AC AND RAKED IN LIGHTLY. SEEDED AREAS SHALL BE DRESSED SMOOTH, THEN MULCH (STRAW) APPLIED AT 4000 LB/AC AREAS SHALL BE SPRAYED WITH EMULSION TO BIND SEED AND PREVENT EROSION, IMMEDIATELY AFTER SEEDING.

TEMPORARY SEEDING SCHEDULE

S&W
ARCHITECTURE
ENGINEERING
INTERIORS

STEVENS & WILKINSON
1501 MAIN STREET, SUITE 730
COLUMBIA, SC 29201
P 803.765.0320 F 803.254.6209
WWW.STEVENS-WILKINSON.COM

RED IRON ARCHITECTS
RED IRON ARCHITECTS
4591 DURANT AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405

HUSSEY GAY BELL
Established 1958
Hussey, Gay, Bell & DeYoung, Inc.
Consulting Engineers of SC
T 843.849.7500

BROWNSTONE
BROWNSTONE GROUP
4055 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

SOUTH CAROLINA HUSSEY, GAY, BELL & DEYOUNG, INC. CONSULTING ENGINEERS OF SC No. C00194 CERTIFICATE OF AUTHORIZATION

CORPORATE SEAL

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 23360 BRAD L. TAYLOR 8/24/20

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION
△	4/21/2020	GRADING REVISION
△	6/1/2020	TRC COMMENT REVISIONS
△	8/11/2020	ADDENDUM 1 - FENCE HEIGHT REVISION
△	8/25/2020	ADDENDUM 3 - DRB/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19085.00
■ DATE: 07.30.2020

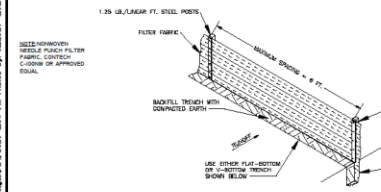
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT > excellence is our standard

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
1861 BOHICKET RD, JOHNS ISLAND, SC 29455

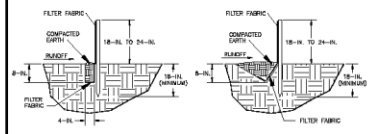
SWPPP DETAILS

C520



SILT FENCE INSTALLATION

NOTE: FABRIC SHALL BE WIRE-REINFORCED IN LOCATIONS ADJACENT TO BUFFER ZONES, AS INDICATED ON PLANS.



FLAT-BOTTOM TRENCH DETAIL V-SHAPED TRENCH DETAIL

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

APPROVED BY: _____ AUGUST, 2005
SCDHEC DATE

SILT FENCE DETAIL

When and Where to Use It
Silt fence is applicable in areas:

Where the maximum sheet or overland flow path length to the fence is 100-feet.
Where the maximum slope steepness (normal (perpendicular) to fence line) is 2%:1V.
That do not receive concentrated flows greater than 0.5 cfs.

Do not place silt fence across channels or use it as a velocity control BMP.

Materials

Steel Posts
Use 48-inch long steel posts that meet the following minimum physical requirements:
Composed of high strength steel with minimum yield strength of 50,000 psi.
Have a standard "T" section with a nominal face width of 1.38-inches and nominal "T" length of 1.48-inches.
Weigh 1.25 pounds per foot (± 8%).
Have a soil stabilization plate with a minimum cross section area of 17-square inches attached to the steel posts.
Painted with a water based baked enamel paint.

Use steel posts with a minimum length of 4-feet, weighing 1.25 pounds per linear foot (± 8%) with projections to aid in fastening the fabric. Except when heavy clay soils are present on site, steel posts will have a metal soil stabilization plate welded near the bottom such that when the post is driven to the proper depth, the plate will be below the ground level for added stability.
The soil plates should have the following characteristics:
Be composed of minimum 15 gauge steel.
Have a minimum cross section area of 17-square inches.

Geotextile Filter Fabric
Filter fabric is:
Composed of fibers consisting of long chain synthetic polymers composed of at least 85% by weight of polyolefins, polyesters, or polyamides. Formed into a network such that the filaments or yarns retain dimensional stability relative to each other. Free of any treatment or coating which might adversely alter its physical properties after installation. Free of defects or flaws that significantly affect its physical and/or filtering properties. Cut to a minimum width of 38 inches.

Use only fabric appearing on SCDOT Approved Sheet #34 meeting the requirements of the most current edition of the SCDOT Standard Specifications for Highway Construction.

NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

NOTE: FABRIC SHALL BE WIRE-REINFORCED IN LOCATIONS ADJACENT TO BUFFER ZONES, AS INDICATED ON PLANS.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 2 of 3

APPROVED BY: _____ AUGUST, 2005
SCDHEC DATE

SILT FENCE DETAIL

Installation
Excavate a trench approximately 6-inches wide and 6-inches deep when placing fabric by hand. Place 12-inches of geotextile fabric into the 6-inch deep trench, extending the remaining 6-inches towards the upslope side of the trench. Backfill the trench with soil or gravel and compact.Bury 12-inches of fabric into the ground when pneumatically installing silt fence with a slicing method. Purchase fabric in continuous rolls and cut to the length of the barrier to avoid joints. When joints are necessary, wrapped the fabric together at a support post with both ends fastened to the post, with a 6-inch minimum overlap. Install posts to a minimum depth of 24-inches. Install posts a minimum of 1- to 2- inches above the fabric, with no more than 3-feet of the post above the ground. Space posts to maximum 6-feet centers. Attach fabric to wood posts using staples made of heavy-duty wire at least 1½-inch long, spaced a maximum of 6-inches apart. Staple a 2-inch wide lathe over the filter fabric to securely fasten it to the upslope side of wooden posts. Attach fabric to the steel posts using heavy-duty plastic ties that are evenly spaced and placed in a manner to prevent sagging or tearing of the fabric. In all cases, ties should be affixed in no less than 4 places. Install the fabric a minimum of 24-inches above the ground. When necessary, the height of the fence above ground may be greater than 24-inches. In tidal areas, extra silt fence height may be required. The post height will be twice the exposed post height. Post spacing willmeash the same and extra height fabric will be 4-, 5-, or 8-feet tall. Locate silt fence checks every 100 feet maximum and at low points. Install the fence perpendicular to the direction of flow and place the fence the proper distance from the toe of sloep slopes to provide sediment storage and access for maintenance and cleanout.

Inspection and Maintenance
Inspect every seven calendar days and within 24-hours after each rainfall event that produces ½-inches or more of precipitation. Check for sediment buildup and fence integrity. Check where runoff has eroded a channel beneath the fence, or where the fence has sagged or collapsed by fence overtopping. If the fence fabric tears, begins to decompose, or in any way becomes ineffective, replace the section of fence immediately. Remove sediment accumulated along the fence when it reaches 1/3 the height of the fence, especially if heavy rains are expected. Remove trapped sediment from the site or stabilize it on site. Remove silt fence within 30 days after final stabilization is achieved or after temporary best management practices (BMPs) are no longer needed. Permanently stabilize disturbed areas resulting from fence removal.

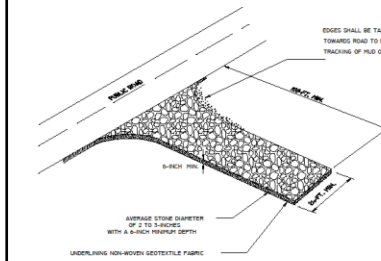
NOTE: FABRIC SHALL BE WIRE-REINFORCED IN LOCATIONS ADJACENT TO BUFFER ZONES, AS INDICATED ON PLANS.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 3 of 3

APPROVED BY: _____ AUGUST, 2005
SCDHEC DATE



NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

South Carolina Department of Health and Environmental Control

STABILIZED CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 Page 1 of 3

APPROVED BY: _____ AUGUST, 2005
SCDHEC DATE

STABILIZED CONSTRUCTION ENTRANCE

When and Where to Use It

Stabilized construction entrances should be used at all points where traffic will be leaving a construction site and moving directly onto a public road.

Important Considerations

If washing is used, provisions must be made to intercept the wash water and trap the sediment before it is carried offsite. Washdown facilities shall be required as directed by SCDHEC as needed. Washdown areas in general must be established with crushed gravel and drain into a sediment trap or sediment basin. Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by vehicles.

Installation:

Remove all vegetation and any objectionable material from the foundation area.

Divert all surface runoff and drainage from stones to a sediment trap or basin.

Install a non-woven geotextile fabric prior to placing any stone.

Install a culvert pipe across the entrance when needed to provide positive drainage.

The entrance shall consist of 1-inch to 3-inch OSO stone placed at a minimum depth of 6-inches.

Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.

The edges of the entrance shall be tapered out towards the road to prevent tracking of mud at the edge of the entrance.

NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

South Carolina Department of Health and Environmental Control

STABILIZED CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 Page 2 of 3

APPROVED BY: _____ AUGUST, 2005
SCDHEC DATE

STABILIZED CONSTRUCTION ENTRANCE

Inspection and Maintenance:

Inspect construction entrances every seven (7) calendar days and within 24-hours after each rainfall event that produces ½-inches or more of precipitation, or after heavy use. Check for mud and sediment buildup and pad integrity. Make daily inspections during periods of wet weather. Maintenance is required more frequently in wet weather conditions. Reshape the stone pad as needed for drainage and runoff control.

Wash or replace stones as needed and as directed by the Inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone.

Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

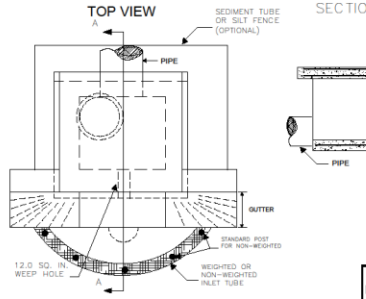
Repair any broken pavement immediately.

South Carolina Department of Health and Environmental Control

STABILIZED CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 Page 3 of 3

APPROVED BY: _____ AUGUST, 2005
SCDHEC DATE



South Carolina Department of Health and Environmental Control

Type F
INLET TUBES

STANDARD DRAWING NO. SC-11 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

TYPE F – INLET TUBES INLET PROTECTION

GENERAL NOTES

1. Inlets tubes should be composed of compacted geotextiles, curled excelsior wood, natural coconut fibers, a hardwood mulch, or a mix of these materials enclosed by a flexible netting material.

2. Inlets tubes should utilize an outer netting that consists of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material. Curled wood excelsior fiber, or natural coconut fiber rolled erosion control products rolled up to create an inlet tube device are not allowed.

3. Do not use straw, straw fiber, straw bales, pine needles, or leaf mulch as fill material within inlet tubes.

4. Weighted inlet tubes must be capable of staying in place without external stabilization measures and may have a weighted inner core or other weighted mechanism to keep them in place.

5. Install weighted tubes lying flat on the ground, with no gaps between the underlying surface and the inlet tube. Do not stack inlet tubes. Do not completely block inlet with tube.

6. Non-weighted inlet tubes require staking or other stabilization methods to keep them safely in place.

7. Overflow or overtopping of inlet tubes must be allowed to flow into inlet unobstructed.

8. To avoid possible flooding, two or three concrete cinder blocks may be placed between the tube and the inlet.

INSPECTION AND MAINTENANCE

1. The key to functional inlet protection is weekly inspection, routine maintenance, and regular sediment removal.

2. Regular inspections of all inlet protection shall be conducted once every calender week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.

3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.

4. Remove accumulated sediment when it reaches 1/3 the height of the blocks. If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole.

5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

6. Large debris, trash, and leaves should be removed from in front of tubes when found.

7. Replace inlet tube when damaged or as recommended by manufacturer's specifications.

8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

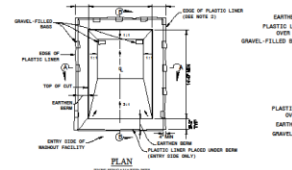
South Carolina Department of Health and Environmental Control

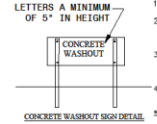
Type F
INLET TUBES

STANDARD DRAWING NO. SC-11 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

EXCAVATED PIT CONCRETE WASHOUT





CONCRETE WASHOUT SIGN DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT
EXCAVATED PIT

STANDARD DRAWING NO. RC-08 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014 DATE

S&W
ARCHITECTURE ENGINEERING INTERIORS
STEVENS WILKINSON
1501 MAIN STREET, SUITE 730
COLUMBIA, SC 29201
P 803.765.0320 F 803.254.6209
WWW.STEVENS-WILKINSON.COM

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4891 DURANT AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405

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BROWNSTONE
BROWNSTONE GROUP
4000 FABER PLACE DRIVE, SUITE 350
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

8/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	8/26/2020	ADDENDUM 2- ORB/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

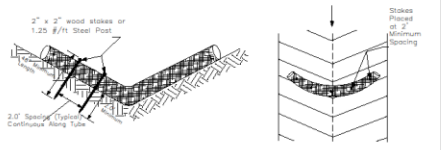
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SWPPP DETAILS

C521

SEDIMENT TUBE INSTALLATION

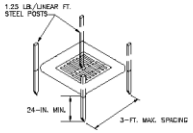


SEDIMENT TUBE SPACING

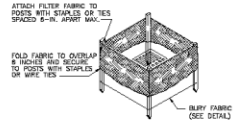
SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150–FEET
2%	100–FEET
3%	75–FEET
4%	50–FEET
5%	40–FEET
6%	30–FEET
GREATER THAN 6%	25–FEET

PLAN SYMBOL

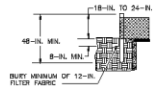
South Carolina Department of Health and Environmental Control
SEDIMENT TUBES
STANDARD DRAWING NO. SC-05 PAGE 1 of 2
NOT TO SCALE DATE



POST INSTALLATION DETAIL



FILTER FABRIC INSTALLATION DETAIL



FILTER FABRIC BURIAL DETAIL

South Carolina Department of Health and Environmental Control
TYPE A - FILTER FABRIC INLET PROTECTION
STANDARD DRAWING NO. SC-07 Page 1 of 2
APPROVED BY: BOARD DATE: AUGUST 2005

SEDIMENT TUBES - GENERAL NOTES

1. Sediment Tubes may be installed along contours, in drainage conveyance channels, and around inlets to help prevent off-site discharge of sediment-laden stormwater runoff.
2. Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch–filled sediment tubes are not permitted.
3. The outer netting of the sediment tube should consist of seamless, high–density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high–density polyethylene non–degradable material.
4. Sediment tubes, when used as checks within channels, should range between 18–inches and 24–inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
5. Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
6. Sediment tubes should be staked using wooden stakes (2–inch X 2–inch) or steel posts (standard "U" or "I" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48–inches in length placed on 2–foot centers.
7. Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before installation.
8. The ends of adjacent sediment tubes should be overlapped 9–inches to prevent flow and sediment from passing through the field joint.
9. Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
10. Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
11. Sediment tubes should continue up the side slopes a minimum of 1–foot above the design flow depth of the channel.
12. Install stakes at a diagonal facing incoming runoff.

SEDIMENT TUBES - INSPECTION & MAINTENANCE

1. The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. If erosion causes the edges to fail to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
8. Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.

NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

South Carolina Department of Health and Environmental Control
SEDIMENT TUBES
STANDARD DRAWING NO. SC-05 PAGE 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE

FILTER FABRIC INLET PROTECTION

Materials:
Use filter fabric that conforms to SCDOT standard specifications for Highway construction (latest edition). Refer to the silt fence geotextile fabrics Approval Sheet #34.

Use steel posts that meet the following minimum physical requirements:
Be composed of high strength steel with minimum yield strength of 50,000 psi.
Have a standard "I" section with a nominal face width of 1.38–inches and nominal "t" length of 1.48–inches.
Weigh 1.25 pounds per foot (± 8%).
Be painted with a water based baked enamel paint.

Attach fabric to metal posts with heavy–duty plastic ties.

Installation:
Excavate a trench 8–inches wide and 8–inches deep around the outside perimeter of the inlet unless the fabric is pneumatically installed.

Extend the filter fabric a minimum of 12–inches into the trench. Backfill the trench with soil or crushed stone and compact over the filter fabric unless the fabric is pneumatically installed.

Use steel posts with a minimum post length of 60–inches consisting of standard "I" sections with a weight of 1.25 pounds per foot (#/ft). Install the filter fabric to a minimum height of 24–inches above grade. Space the steel posts around the perimeter of the inlet a maximum of 3–feet apart and drive them into the ground a minimum of 24–inches. Cut the filter fabric from a continuous roll to the length of the protected area to avoid the use of joints. When joints are necessary, wrap filter fabric together only at a support post with both ends securely fastened to the post, with a minimum 8–inch overlap.

Attach fabric to steel posts with heavy–duty plastic ties.

Attach at least four (4) evenly spaced ties in a manner to prevent sagging or tearing of the fabric. In all cases, affix ties in no less than four (4) places.

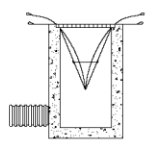
Inspection and Maintenance:
Inspections should be made every 7 calendar days and within 24–hours after each storm that produces 3–inches or more of rain. If the fabric becomes clogged, it should be replaced.
Sediment should be removed when it reaches approximately 1/3 the height of the fence. Take care not to damage or undercut fabric when removing sediment. If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole. Maintain the pool area, always providing adequate sediment storage volume for the next storm.

Storm drain inlet protection structures should be removed only after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Use appropriate permanent stabilization methods to stabilize bare areas around the inlet.

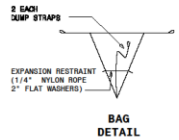
NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

South Carolina Department of Health and Environmental Control
Type A
FILTER FABIC INLET PROTECTION
STANDARD DRAWING NO. SC-07 Page 2 of 2
APPROVED BY: BOARD DATE: AUGUST 2005

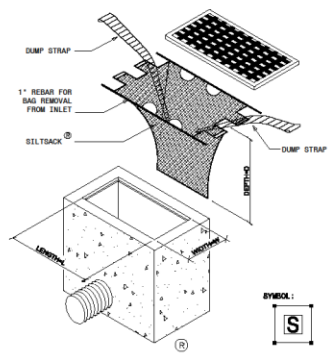
NOTE: CURB INLETS FITTED WITH SILTSACK WILL HAVE THE THROAT BLOCKED IN ORDER TO FORCE WATER THROUGH THE GRATE AND INTO THE SILTSACK®



INSTALLATION DETAIL



BAG DETAIL



SILTSACK INLET PROTECTION

MAPPING SYMBOLS FOR EROSION AND SEDIMENT CONTROL PLANS

South Carolina Department of Health and Environmental Control
EFFECTIVE DATE: AUGUST, 2005

DESCRIPTION	SYMBOL
EROSION PREVENTION	
FGM	FGM
BFM	BFM
PERMANENT SEEDING:	PS
SODDING:	SO
RIPRAP:	
OUTLET PROTECTION	Rip/Rap; ECB or TRM
DUST CONTROL:	DC
POLYACRYLAMIDE (PAM)	PAM

MAPPING SYMBOLS FOR EROSION AND SEDIMENT CONTROL PLANS

South Carolina Department of Health and Environmental Control
EFFECTIVE DATE: AUGUST, 2005

DESCRIPTION	SYMBOL
SEDIMENT CONTROL	
SEDIMENT BASIN:	
TEMPORARY SEDIMENT TRAP:	
ROCK SEDIMENT DIKE:	
ROCK CHECK DAM:	OR
SEDIMENT TUBE:	
SILT FENCE:	
REINFORCED SILT FENCE:	
TYPE A – FABRIC INLET PROTECTION:	A
TYPE A – SEDIMENT TUBE INLET PROTECTION:	A

MAPPING SYMBOLS FOR EROSION AND SEDIMENT CONTROL PLANS

South Carolina Department of Health and Environmental Control
EFFECTIVE DATE: AUGUST, 2005

DESCRIPTION	SYMBOL
EROSION PREVENTION	
LAND GRADING:	LG OR
SURFACE ROUGHENING:	
TOPSOILING:	
TEMPORARY SEEDING:	TS
MULCHING:	M
ECB OR TRM	

MAPPING SYMBOLS FOR EROSION AND SEDIMENT CONTROL PLANS

South Carolina Department of Health and Environmental Control
EFFECTIVE DATE: AUGUST, 2005

DESCRIPTION	SYMBOL
TYPE B – WIRE MESH AND STONE DROP INLET PROTECTION:	B
TYPE C – BLOCK AND GRAVEL INLET PROTECTION:	C
TYPE D – RIGID INLET FILTERS	D
TYPE E – SURFACE COURSE CURB INLET FILTER	E
TYPE F – INLET TUBE	F
ROCK SEDIMENT DIKE:	
RUNOFF CONVEYANCE MEASURES:	
VEGETATED CHANNELS:	
RIPRAP–LINED CHANNELS:	
ECB OR TRM–LINED CHANNELS:	
PAVED CHANNELS:	PC PC PC
PIPE SLOPE DRAINS:	

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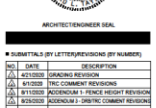
CORPORATE SEAL



ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	6/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	6/26/2020	ADDENDUM 2- ORB/TRC COMMENT REVISIONS

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19065.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

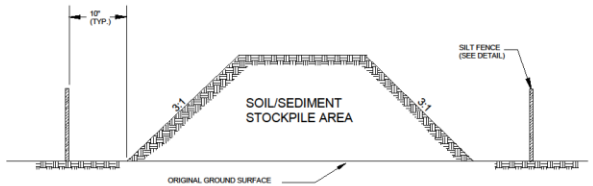
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SWPPP DETAILS

C522

TEMPORARY STOCKPILE AREA



NOTES:

1. SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOP THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
2. IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

South Carolina Department of Health and Environmental Control

TEMPORARY STOCKPILE

STANDARD DRAWING NO. SC-15 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014 DATE

INSPECTION AND MAINTENANCE OF SEDIMENT BASIN

Inspections & Maintenance

The key to a functional sediment basin is continual inspections, routine maintenance and regular sediment removal. Each sediment basin should be inspected at a minimum of once every calendar week. It is also recommended to inspect sediment basins within 24 hours of a storm event producing 0.5" of precipitation or greater.

Any deficiencies noted during an inspection of the basin must be addressed within 7 calendar days, before the next scheduled inspection, or before the next storm event.

Over the course of the construction project, accumulated sediment will need to be removed from the basin. Ultimately, the accumulated sediment will need to be removed once it reaches ½ of the provided sediment storage volume within the sediment basin but it is recommended to cleanout certain sections of the sediment basin (such as the sediment forebay and the cells between the porous baffles) more frequently. For this reason the following sediment removal procedures may be necessary.

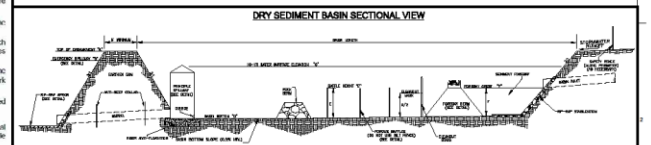
- **Sediment Forebay:** Accumulated sediment should be removed from the forebay when the elevation of the deposited sediment reaches 1/2 the height of the forebay's berm.
- **Porous Baffles' Cells:** Accumulated sediment should be removed from the cells created by each row of baffles when the elevation of the deposited sediment reaches 1/2 the height of the baffles or the clearout mark located on the clearout stake, whichever is lower.
- **Rock Berm:** Accumulated sediment should be removed from in front of the rock berm when the elevation of the deposited sediment reaches 1/2 the height of the berm or the clearout mark located on the clearout stake, whichever is lower.

When accumulated sediment is removed from a sediment basin, it should be placed in designated stockpile storage areas or spread thinly across the disturbed area and promptly stabilized.

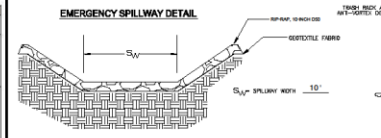
Accumulate sediment is not the only issue that may prevent proper sediment basin functions. Additional maintenance issues that are commonly required to maintain sediment basins are listed in the table located on the following page.

Identified Sediment Basin Condition	Maintenance Measures To Be Taken
Outlet pipe (carrel) is clogged with debris.	Remove debris. Modify trash rack at top of riser structure to restrict larger debris particles from entering the outlet pipe.
Emergency spillway has eroded due to high discharge velocities during recent storm event.	Stabilize spillway with Erosion Control Blankets (ECBs) or Turf Reinforcement Mats (TRMs) with higher shear stress capabilities. Alternatively, stabilize spillway with Rip Rap sized to address discharge velocities. Vegetated stabilization down the embankment's exterior and exterior slopes, if not already provided.
Basin's side slopes are eroding. The formation of rills and gullies are evident.	Re-grade slopes and provide proper tracking techniques. Seed slopes and stabilize with ECBs, TRMs, or equivalent erosion prevention BMPs, as necessary. Ensure that the slopes are graded correctly. Do not fill in the gullies with silty clay. Inspect upland areas for evidence of concentrated flows traversing slopes. If evident provide a vegetated conveyance method to prevent further erosion along the slope.
Excessive accumulated sediment identified in basin.	Remove sediment to the elevations as denoted on the plans. Place removed sediment as stockpiles or across disturbed areas.
Principle Spillway and Emergency Failure.	Contact regulatory inspection agency. Install temporary BMP measures and stabilize disturbed areas to keep additional impacts to a minimum. Removal of any offsite sediment impacts should be done so at adjacent property owner's consent.
Skimmer is stuck or is clogged with debris.	Use rope to free skimmer from mud. Clear debris from skimmer orifice and install anti-clog mechanism.
Inlets of basin cited for scouring which is increasing erosion within basin.	Stabilize each inlet with Rip Rap Aprons. Be sure to extend rip rap above inlet pipe or into inlet channel.

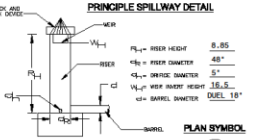
DRY SEDIMENT BASIN SECTIONAL VIEW



EMERGENCY SPILLWAY DETAIL



PRINCIPLE SPILLWAY DETAIL



SEDIMENT BASIN DESIGN TABLE

Sediment Basin Number/Name	"A"	"B"	"C"	"E"	"F"	"G"
1	21.5	21	19.3	16	16	15

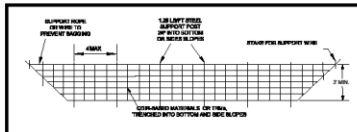
NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

South Carolina Department of Health and Environmental Control

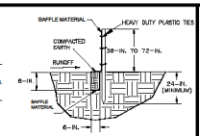
DRY SEDIMENT BASIN

STANDARD DRAWING NO. SC-01 Page 1 of 3

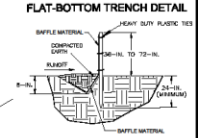
NOT TO SCALE FEBRUARY 2014 DATE



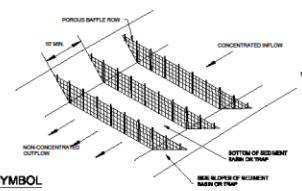
CROSS SECTION VIEW



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



PERSPECTIVE VIEW

PLAN SYMBOL

—PB—PB—

South Carolina Department of Health and Environmental Control

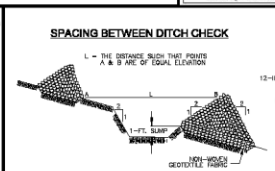
POROUS BAFFLES

STANDARD DRAWING NO. EC-13 PAGE 1 of 2

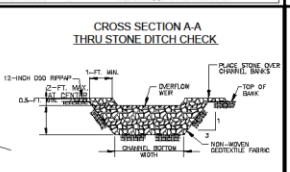
NOT TO SCALE FEBRUARY 2014 DATE

NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

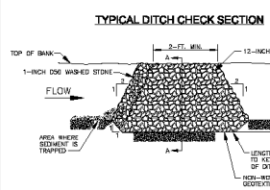
SPACING BETWEEN DITCH CHECK



CROSS SECTION A-A THRU STONE DITCH CHECK



TYPICAL DITCH CHECK SECTION



PLAN SYMBOL

OR

South Carolina Department of Health and Environmental Control

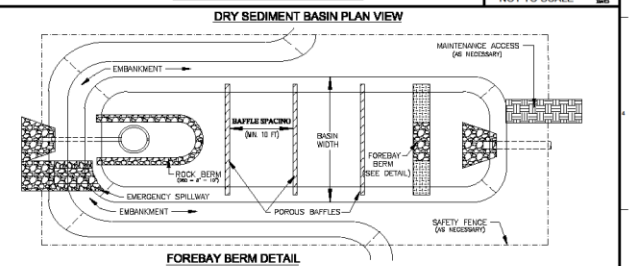
ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 1 of 2

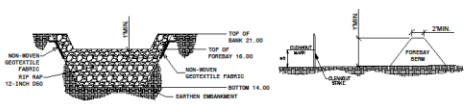
NOT TO SCALE FEBRUARY 2014 DATE

NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

DRY SEDIMENT BASIN PLAN VIEW



FOREBAY BERM DETAIL



NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

South Carolina Department of Health and Environmental Control

DRY SEDIMENT BASIN

STANDARD DRAWING NO. SC-01 Page 2 of 3

NOT TO SCALE FEBRUARY 2014 DATE

BAFFLES – POST REQUIREMENTS

1. Porous baffle posts must be 60-inch to 66-inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "T" section with a nominal face width of 1.28-inches and a nominal "T" length of 1.48-inches.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of baffle material.
3. Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the sediment.
4. Post spacing shall be at a maximum of 4-feet on center.

BAFFLES – MATERIAL REQUIREMENTS

1. Baffle material must be composed of coir-based materials or Turf Reinforcement Matting (TRM) that consists of the following requirements:
   - Have a light penetration (% openings) between 10-30%
   - Free of loose straw material.
   - Have a minimum tensile strength of 145 lb/ft; and,
   - Have a minimum width of 48-inches.
2. 12-inches of the fabric should be placed within excavated trench and load in when the trench is backfilled or baffle material may be stapled into ground by using 12-inch staples with a maximum spacing of 12-inches.
3. Baffle material shall be purchased in continuous rolls and cut to the width of the sediment basin or trap to avoid joints.

BAFFLES – GENERAL NOTES

1. Attach baffle to the steel posts using heavy-duty plastic ties that are evenly spaced along the above ground portion of each post.
2. Install the baffle rows perpendicular to the direction of the stormwater flow and place each baffle the proper distance from inlet and outlets to allow access for maintenance and clean-out.

BAFFLES – INSPECTION & MAINTENANCE

1. The key to functional porous baffles is weekly inspection, routine maintenance, and regular sediment removal.
2. Regular inspections of porous baffles shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations along each row of baffles is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the baffle row or when it reaches the clean-out height of the sediment basin or trap, whichever is reached first.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath each row of baffles, or where the baffle has sagged or collapsed due to runoff overtopping the baffle.
7. Check for loose/rips within the baffles, areas where the baffle has begun to deteriorate, and for any other circumstance that may render the baffle ineffective. Removed damaged baffles and reinstall new baffles immediately.
8. Porous baffles should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

South Carolina Department of Health and Environmental Control

POROUS BAFFLES

STANDARD DRAWING NO. SC-13 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

ROCK DITCH CHECK - GENERAL NOTES

1. Rock Ditch Checks should not be placed in Waters of the State or USOS blue-line streams (unless approved by Federal Authorities).
2. Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.
3. A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.
4. The body of the rock ditch check shall be composed of 12-inch D50 Riprap. The upstream face may be composed of 1-inch D50 washed stone.
5. Rock Ditch Checks should not exceed a height of 2-feet at the centerline of the channel.
6. Rock Ditch Checks should have a minimum top flow length of 2-feet.
7. Riprap should be placed over channel banks to prevent water from cutting around the ditch check.
8. The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the channel. Doing so will also ensure that the center of the check is lower than the edges.
9. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

ROCK DITCH CHECK - INSPECTION & MAINTENANCE

1. The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.
7. In the case of grass-lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.
8. After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

DRY SEDIMENT BASIN - GENERAL NOTES

1. Sediment basins should not be placed in Waters of the State or USOS blue-line streams (unless approved by Federal Authorities).
2. Sediment basin's side slopes shall be seeded and, when necessary, stabilized with vegetative or synthetic matting to prevent the formation of rills and gullies.
3. Install three (3) rows of porous baffles with a minimum spacing of 10 feet. Baffles should ultimately be placed to maximize the space between each row of baffles and the basin's inlets/outlets. Only two (2) rows of baffles are necessary for basins that are less than 60 feet in length.
4. Porous Baffles should be composed of coir-based materials or TRMs with a light penetration (open spaces) between 10-30%. These materials should not have loose straw. Silt Fence may not be used as Porous Baffles.
5. Each porous baffles shall be installed across the entire width of the basin and along the basin's side slope until the height of the baffle intersects the slope.
6. Stormwater runoff entering the basin must be directed into proper BMPs to prevent erosion along side slopes and to prevent scour at the basin's inlets.
7. The forebay berm should consist of riprap, gabion, or an earthen berm with a rock filled outlet that is constructed across the bottom of the basin's width.
8. An additional cleanout stake for the forebay area is recommended and should be marked for cleanout at 50% of provided sediment storage.
9. The elevation of the emergency spillway should be at least 1 foot below the top of the embankment. The emergency spillway should not be located on fill material, when possible. Riprap and geotextile liner should be placed on all spillways that must be located on fill material.

DRY SEDIMENT BASIN – INSPECTION AND MAINTENANCE

1. The key to a functional sediment basin is weekly inspections, routine maintenance, and regular sediment removal.
2. Attention to sediment accumulations within the basin is extremely important. Accumulated sediment deposition should be continually checked and removed when necessary.
3. Remove accumulated sediment when it reaches 50% of the design sediment storage volume or 1/2 the height of the riser structure, whichever is reached first.
4. Removed sediment from the basin shall be placed in stockpile storage areas or spread thinly across the disturbed area. Stabilize the removed sediment after it is relocated.
5. Inspections of sediment basins should be conducted once every calendar week and, as recommended, within 24-hours of each rainfall event that produces ½-inch or more of precipitation.
6. All temporary sediment basins, which are not to be converted to a detention basin post-construction, should be removed within 30 days after final site stabilization is achieved.
7. Disturbed areas resulting from the removal of the sediment basin should be permanently stabilized and additional BMPs, such as silt fence, should be utilized to accept stormwater runoff from the disturbed area until final stabilization is reached.

South Carolina Department of Health and Environmental Control

DRY SEDIMENT BASIN

STANDARD DRAWING NO. SC-01 Page 3 of 3

GENERAL NOTES FEBRUARY 2014 DATE

NOTE: NONWOVEN NEEDLE PUNCH FILTER FABRIC, CONTECH C-100NW OR APPROVED EQUAL

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CORPORATE SEAL

6/24/20

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/11/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	8/26/2020	ADDENDUM 2- ORS/TRC COMMENT REVISIONS

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

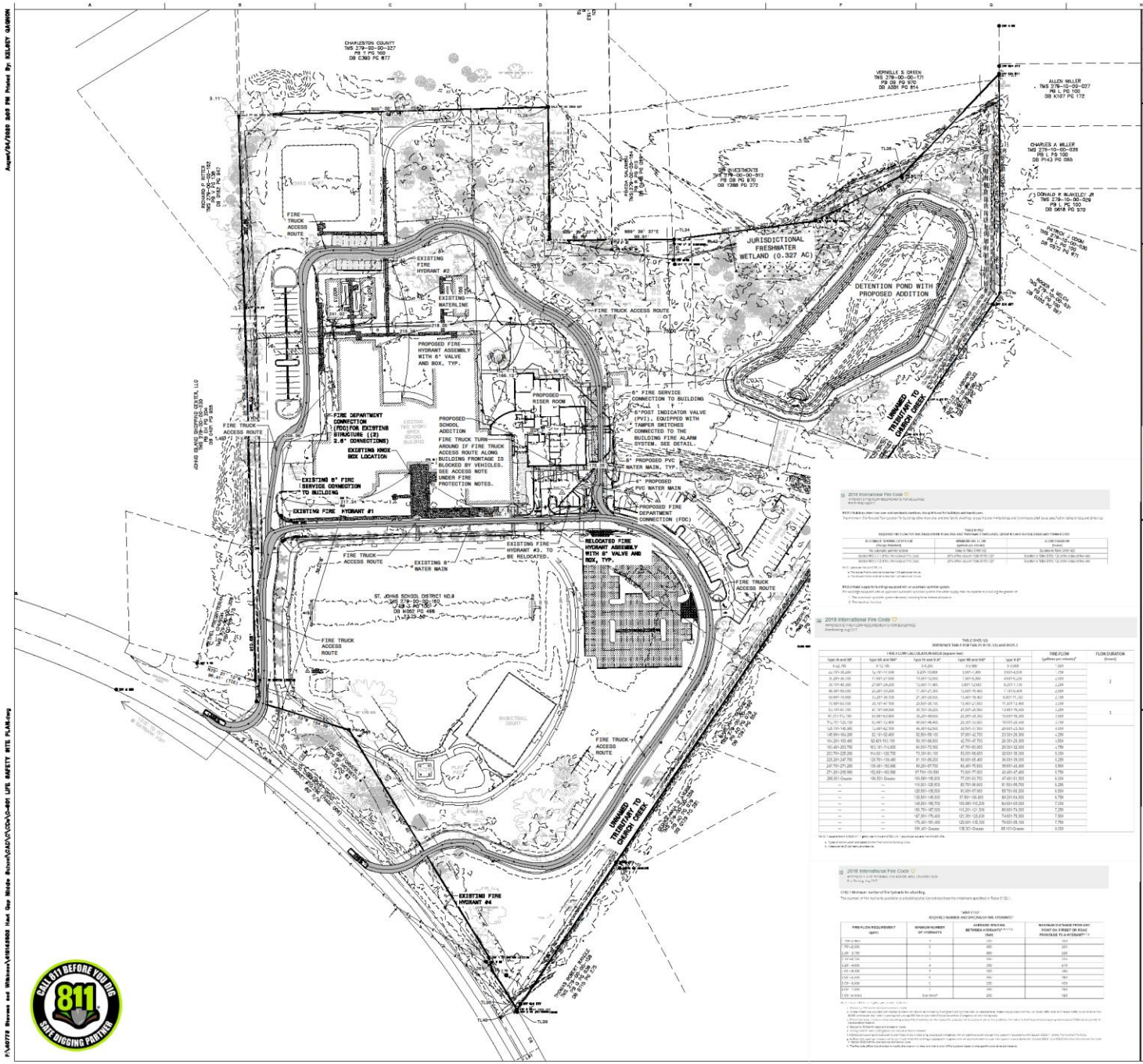
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SWPPP DETAILS

C523



MAP NOTE:

1. ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: ESP ASSOCIATES, INC. DATED 10/30/2019, REVISED 01/31/2020, PREPARED BY AARON TAYLOR, PLS (ATTAYLOR@ESPASSOCIATES.COM AND #43.714.3046) AND DARYN CLOPTON
2. TRANSFER OF SITE BENCHMARK(S) IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL ONLY BE COMPLETED BY A SURVEYOR LICENSED/REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
2. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING BENCHMARK PRIOR TO ANY CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. FIELD VERIFICATION CAN BE ACCOMPLISHED BY OVERSIGHT A MINIMUM OF TWO FIXED OBJECTS DISPLAYED ON THE SURVEY (i.e. MANHOLE RIM, STORM GRATE, PIPE INVERTS, ETC.).
4. ELEVATIONS SHOWN HEREON ARE NGVD 88 DATUM.

LEGEND

- 6' BLACK VINYL CHAIN-LINK FENCE
- ASPHALT PAVING
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE SIDEWALK
- GRAVEL DRIVEWAY
- RAISED PLANTING

FIRE PROTECTION NOTES:

DESCRIPTION: NEW CONSTRUCTION; ONE LEVEL; INSTITUTIONAL USE

CONSTRUCTION TYPE: II-B

AREA:
FIRE AREA 1
EXISTING FIRST FLOOR = 50,919 SF
EXISTING SECOND FLOOR = 25,807 SF

FIRE AREA 2
PROPOSED SINGLE STORY SEPARATED BY 2 HOUR FIREWALL = 14,254 SF

TOTAL FIRE FLOW CALCULATION AREA: 50,919 SF
(4,750 GALLONS/MIN AT A 4 HOUR FLOW DURATION, CAN BE REDUCED IF SPRINKLER SYSTEM IS INSTALLED)

SPRINKLERED: YES

(4,750 GALLONS/MIN - (4,750 GALLONS/MIN * 0.75)) = 1,188 GALLONS/MIN.
(*)1,500 GALLONS/MIN IS REQUIRED MINIMUM PER TABLE B105.2)

PER IFC 2018 (TABLE B105.1(2) AND TABLE B105.2), REQUIRED FLOW 1,500 GALLONS/MIN AT A 2 HOUR FLOW DURATION)

PER IFC 2018 (TABLE C102.1), 1 HYDRANT IS REQUIRED WITH 500' AVERAGE SPACING.

ACCESS: THE FUTURE ADDITION WILL BE CONNECTED TO THE EXISTING SCHOOL. THE EXISTING SCHOOL BUILDING IS SURROUNDED BY A DEVELOPED BUS LOOP, STUDENT DROP OFF LANES, DRIVE AISLES, GRASSED AND PAVED PARKING, RECREATION AREAS AND ADJACENT OUTDOOR CLASSROOMS. THE LOT IS PAVED, CAPABLE OF SUPPORTING THE WEIGHT OF THE FIRE APPARATUS, HAS APPROPRIATE DRIVE AISLE WIDTH, AND HAS NO SUBSTANTIAL GRADE CHANGES. THE FUTURE DEVELOPMENT WILL PROVIDE MULTIPLE ACCESS POINTS AND ROUTING OPPORTUNITIES FOR THIS BUILDING AND SURROUNDING STRUCTURES. A HAMMERHEAD TURN AROUND IS PROVIDED AT THE SOUTHWEST CORNER OF THE SCHOOL ADDITION. THE FRONT DRIVE AISLE ALONG THE SCHOOLS FRONTAGE IS USED FOR STUDENT DROP OFF AND PICK UP AND IS CONTINUALLY BEING UTILIZED. NO CARS SHOULD BE PARKED IN FIRE LANE UNATTENDED. THIS HAMMERHEAD TURN AROUND IS PROVIDED AS A RESPONSE TO OFFICE OF SCHOOL FACILITIES (OSF) INITIAL COMMENTS TO ENSURE FIRE ACCESS AROUND THE SCHOOL AND ADEQUATE ROOM PROVIDED FOR A FIRE TRUCK TO TURN AROUND IF FRONT DRIVE AISLE HAPPENS TO BE ILLEGALLY BLOCKED.

HYDROSTATIC FLOW TEST RESULTS

TEST DATE: JANUARY 16, 2020
PERSONNEL: DARRON TERRY, RUSTY PIGGOTT

HYD. NO. 03 MK73-S 2007
STATIC(S) 70 PSI
RESIDUAL(R) 52 PSI
MAIN SIZE: 8"
LOCATION: SOUTHEAST CORNER OF EXISTING SCHOOL IN PARKING LOT ISLAND (NEAR PROPOSED ADDITION)

HYD. NO. 01 MK73-S 2007
FLOW RATE: 1 NOZZLES (2 1/2") @ 30 PSI= 920 GPM
LOCATION: CORNER OF EXISTING SCHOOL BUILDING

FLOW TOTAL (Q): 920 GPM
Q (20)= Q(S-20/S-R)^0.54 = 1597 GPM

GRAPHIC SCALE
NORTH 60 0 30 60
1 INCH = 60 FT
NOTE: THIS SCALE APPLIES FOR 42"x30" SHEETS ONLY

S&W
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CORPORATE SEAL

8/24/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
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■ APPROVED FOR CONSTRUCTION
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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

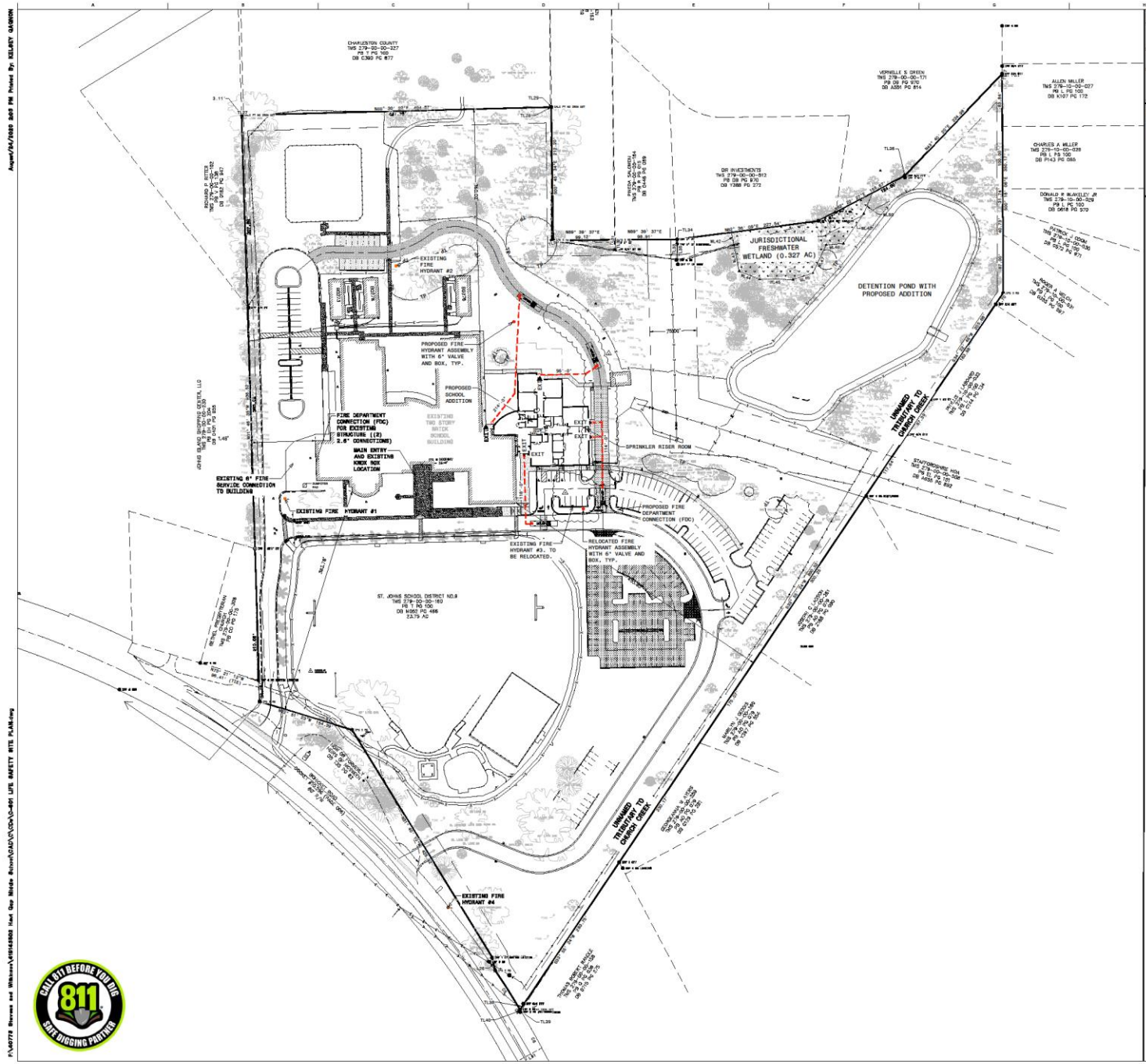
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

LIFE SAFETY SITE PLAN

C601

CALL 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER



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CORPORATE SEAL

No. 23360
8/24/20

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/12/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	9/26/2020	ADDENDUM 3 - DRB/TRC COMMENT REVISIONS

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19065.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

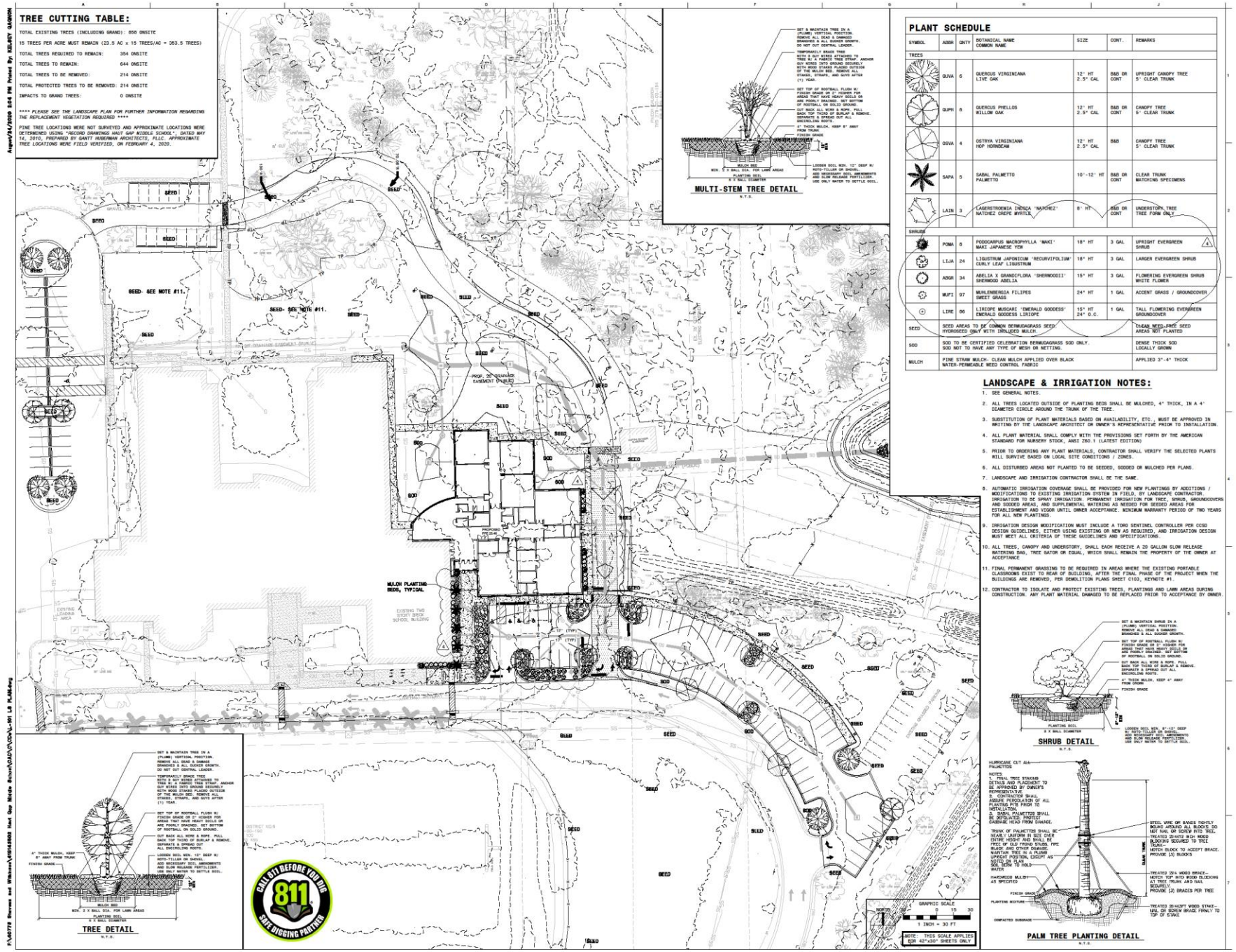
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

1961 SCHOOLHOUSE RD, JOHNS ISLAND, SC 29455

LIFE SAFETY SITE PLAN

C602



August/24/2020 5:04 PM Plotted By: KELLEY GAUNON
F:\40778 Stevens and Wilkinson\VS\01458000 Haut Gap Middle #sinon\CAD\CVDs\L-101 LA PLAN.dwg

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CORPORATE SEAL

No. 535
9/24/20
ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO.	DATE	DESCRIPTION
1	4/21/2020	GRADING REVISION
2	6/1/2020	TRC COMMENT REVISIONS
3	8/11/2020	ADDENDUM 1- FENCE HEIGHT REVISION
4	9/28/2020	ADDENDUM 2- DRB/TRC COMMENT REVISIONS

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION
PROJECT NUMBER: 19065.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
1961 SCHOCKET RD, JOHNS ISLAND, SC 29455

SITE LANDSCAPE PLAN

L101

NOTES:

1) THIS IS NOT A VALID, TRUE COPY OF THIS DOCUMENT UNLESS IT BEARS THE ORIGINAL SIGNATURE, SIGNATURE DATE, AND THE RAISED EMBOSSED SEAL OF THE SURVEYOR NOTED HEREON.

2) ANYTHING SHOWN OUTSIDE THE DEFINED BOUNDARIES OF THIS MAP IS FOR DESCRIPTIVE PURPOSES ONLY.

3) THE PUBLIC RECORDS REFERENCED ON THIS MAP ARE ONLY THOSE USED TO CONSTRUCT, AS CLOSE AS POSSIBLE, THE BOUNDARIES OF THE LAND PARCELS SHOWN HEREON. THEY ARE NOT, AND DO NOT, CONSTITUTE A TITLE SEARCH, NOR DO THE LINES DELINEATING THE LAND PARCELS SHOWN CONSTITUTE A COMPLETED BOUNDARY SURVEY FOR THOSE PARCELS.

4) PLAT AND DEED REFERENCES ARE FROM THE CHARLESTON COUNTY R.O.D. OFFICE.

5) THIS MAP HAS BEEN PREPARED FOR HUSSY GAY BELL IN ACCORDANCE WITH THEIR PLANNED USE AND PURPOSE OF THE INFORMATION SHOWN HEREIN. ALL OTHER PARTIES ARE SUBSEQUENTLY PUT ON NOTICE AS TO THE LIMITED DEGREE OF RELIANCE UPON THIS PLAT BY THIRD PARTIES.

6) THIS PROPERTY MAY BE SUBJECT TO VARIOUS UTILITY EASEMENTS (i.e. POWER, TELEPHONE, SANITARY &/or STORM SEWER, etc.) THAT WERE NOT NOTED EITHER IN THE REFERENCE DEED OR REFERENCE PLATS ASSOCIATED WITH THIS PROPERTY. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURFACE LOCATIONS, AND WERE NOT VERIFIED AS TO SIZE, DEPTH, MATERIAL, &/or CONDITION. THIS PLAT DOES NOT ADDRESS ANY SUBTERRANEAN CONDITIONS OF ANY NATURE UNLESS SPECIFICALLY NOTED OTHERWISE.

7) AREA COMPUTED BY COORDINATE METHOD.

8) SUBJECT PROPERTIES GRAPHICALLY LOCATED WITHIN FLOOD ZONE "X" PER FEMA MAP 45019C0063J WITH AN EFFECTIVE DATE OF 11/17/2004.

9) SUBJECT PROPERTY DEED/PLAT REFERENCE: PB 1 PG 100, DB W052 PG 466

10) HORIZONTAL CONTROL ESTABLISHED WITH GPS USING THE SCDS VRS SYSTEM. HORIZONTAL DATUM= SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM (NAD83/2011) VERTICAL DATUM IS BASED ON LEVELING FROM BM NOS 10 028 10 OF @ = NGVD 29. ALL DISTANCES ARE GROUND DISTANCES.

11) WETLAND FLAG LOCATIONS PROVIDED BY OTHERS.

DROP INLETS

DI 1
RIM: 21.54'
INV IN:16.80' 12" CONC
INV OUT:16.65' 15" CONC

DI 5
RIM: 21.74'
INV IN:17.10' 6" CPP
INV IN:17.68' 6" CPP
INV IN:17.56' 24" CONC
INV OUT:17.42' 30" CONC

DI 8
RIM: 20.89'
INV IN:16.47' 18" CONC
INV IN:16.57' 6" CPP
INV OUT:16.42' 18" CONC

DI 11
RIM: 22.51'
INV IN:18.27' 15" CPP
INV OUT:18.14' 15" CPP

DI 12
RIM: 22.70'
INV IN:19.17' 4" CPP
INV IN:18.67' 6" CPP
INV OUT:18.95' 15" CPP

DI 13
RIM: 20.43'
INV IN:17.52' 18" CONC
INV OUT:17.47' 18" CONC

DI 14
RIM: 20.46'
INV IN:17.42' 24" CONC
INV IN:17.41' 10" CPP
INV OUT:16.26' 18" CONC

DI 17
RIM: 20.42'
INV IN:16.61' 6" CHAR PIPE
INV IN:16.44' 24" CONC
INV IN:16.35' 36" CONC
INV OUT:16.26' 30" CONC

DI 18
RIM: 23.37'
INV IN:17.92' 6" CPP
INV OUT:17.85' 10" CPP

DI 19
RIM: 21.73'
INV IN:16.88' 30" CONC
INV OUT:16.85' 30" CONC

DI 20
RIM: 22.02'
INV IN:16.67' 8" CPP
INV IN:16.85' 6" CPP
INV IN:16.80' 6" CPP
INV OUT:16.56' 15" CONC

DI 21
RIM: 21.78'
INV IN:17.28' 30" CONC
INV IN:17.72' 6" CPP
INV IN:18.2' 15" CONC
INV IN: 17.92' 24" CONC
INV OUT:17.19' 30" CONC

DI 22
RIM: 22.61'
INV IN:17.52' 12" CPP
INV IN:17.53' 30" CONC
INV OUT:17.47' 30" CONC

DI 23
RIM: 22.17'
INV IN:17.94' 6" CPP
INV OUT:18.04' 10" CPP

DI 24
RIM: 20.11'
INV OUT:16.64' 18" CONC

DI 28
RIM: 20.44'
INV IN:17.81' 13" CONC
INV OUT:17.50' 15" CONC

DI 29
RIM: 19.94'
INV OUT:17.72' 15" CONC

DI 40
RIM: 21.28'
INV OUT:17.43' 12" CONC

DI 41
RIM: 20.37'
INV OUT:16.35' 6" CPP

DI 45
RIM: 21.63'
INV IN:MONITORED
INV IN:ABANDONED
INV OUT:18.59' 24" CCRR STEEL

DI 46
RIM: 23.57'
INV IN:18.69' 24" CONC
INV OUT:18.85' 24" CONC

DI 47
RIM: 21.96'
INV IN:17.64' 6" CPP
INV IN:17.59' 6" CPP
INV IN:17.79' 18" CONC
INV OUT:17.79' 24" CONC

DI 48
RIM: 22.46'
INV IN:18.09' 15" CPP
INV IN:18.11' 18" CONC
INV OUT:18.04' 18" CONC

DI 52
RIM: 25.35'
INV IN:19.27' 24" CONC
INV OUT:19.17' 24" CONC

STORM MANHOLES

STMH 9
RIM: 21.19'
INV IN:16.42' 18" CONC
INV OUT:16.33' 18" CONC

STMH 10
RIM: 21.25'
INV IN:16.65' 18" CONC
INV OUT:16.59' 18" CONC

STMH 15
RIM: 23.17'
INV IN:17.53' 5" CPP
INV IN:17.05' 5" STEEL
INV IN:17.39' 8" STEEL
INV OUT:17.28' 10" CPP

STMH 16
RIM: 20.53'
INV IN:17.30' 18" CONC

STMH 26
RIM: 20.43'
INV IN:16.16' 24" CONC
INV OUT:16.16' 18" CONC

STMH 27
RIM: 20.44'
INV IN:16.12' 24" CONC
INV OUT:16.22' 24" CONC

STMH 30
RIM: 21.10'
INV IN:17.39' 15" CONC
INV OUT:17.19' 15" CONC

STMH 31
RIM: 21.75'
INV IN:17.00' 18" CONC
INV IN: 16.94' 15" CONC
INV OUT:16.96' 18" CONC

STMH 50
RIM: 21.46'
INV IN:14.40' 18" CONC
INV IN:14.44' 18" CONC
INV IN:17.68' 18" RCP
INV OUT:14.35' 30" CONC

STMH 51
RIM: 20.82'
INV IN:18.22' 18" CUT-OUT
INV IN:18.22' 18" CUT-OUT
INV IN:15.44' 4" CUT-OUT
INV OUT:14.92' 18" CONC
INV OUT:14.92' 18" CONC

SANITARY SEWER MANHOLES

SSMH 2
RIM: 21.32'
INV IN:12.70' 8" PLASTIC
INV OUT:12.58' 8" PLASTIC

SSMH 3
RIM: 22.39'
INV IN: 12.57' 8" PLASTIC
INV IN: 12.56' 6" PLASTIC
INV OUT:12.39' 8" PLASTIC

SSMH 4
RIM: 22.19'
INV IN: 11.81' 8" PLASTIC
INV OUT:11.51' 8" PLASTIC

SSMH 6 FULL GREASE TRAP
RIM: 22.59'

SSMH 7 FULL GREASE TRAP
RIM: 23.06'

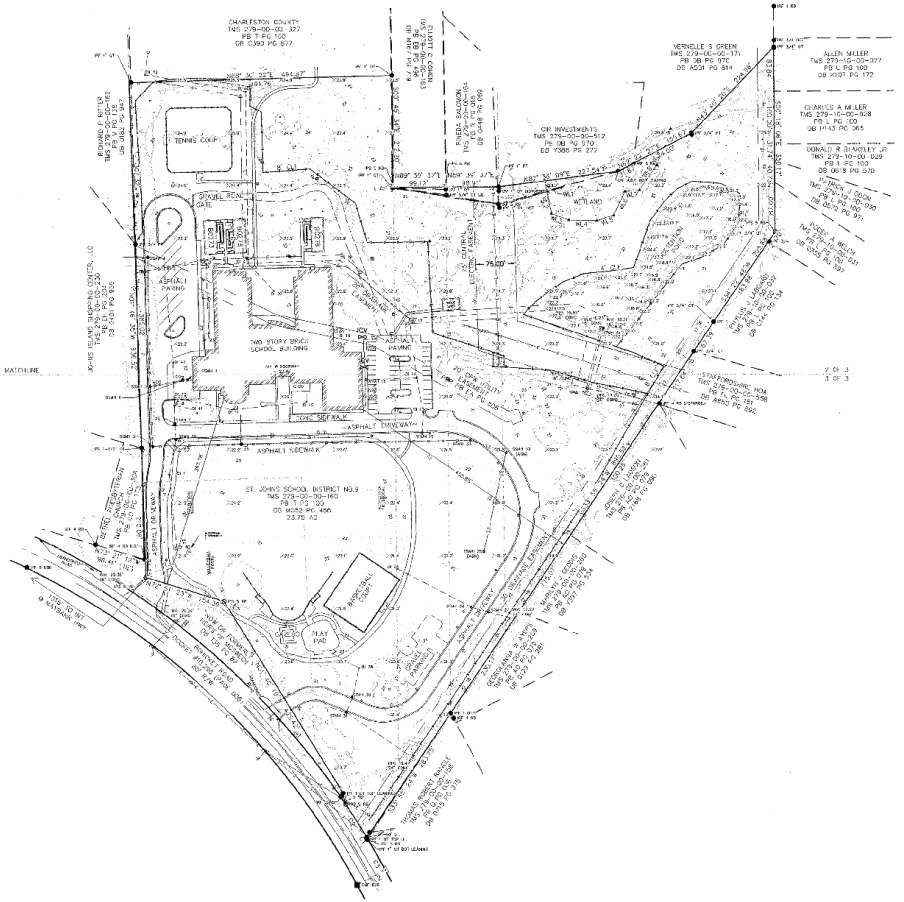
SSMH 25 ABANDONED
RIM: 21.68'
INV IN:17.62' 6" RED CLAY
INV OUT:17.09' 10"

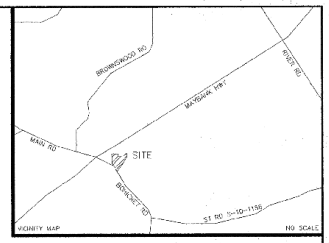
SSMH 32 ABANDONED
RIM: 21.81'
INV OUT:17.61' 8" PLASTIC

SSMH 33
RIM: 21.02'
INV IN:17.45' 8" PLASTIC
INV OUT:17.41' 8" PLASTIC

SSMH 35
RIM: 21.43'
INV IN:14.30' 8" PLASTIC
INV IN:14.21' 8" PLASTIC
INV OUT:13.87' 6" PLASTIC

LINE TABLE		
LINE #	DIRECTION	LENGTH
WL1	S11°16'53"E	63.28'
WL2	S11°16'53"E	63.28'
WL3	S68°38'00"E	35.55'
WL4	S89°08'40"E	53.10'
WL5	S17°57'08"E	33.22'
WL6	N25°25'04"E	46.82'
WL7	N60°22'11"E	27.34'
WL8	N14°28'08"E	57.58'
WL9	N22°38'17"E	41.40'





ABBREVIATION LEGEND

DB – DEED BOOK
PB – PLAT BOOK
PG – PAGE
NAD – NORTH AMERICAN DATUM
NAVD – NORTH AMERICAN VERTICAL DATUM
GIS – GEOGRAPHICAL INFORMATION SYSTEM
IRF – IRON REBAR FOUND
IRS – IRON REBAR SET
R/W – RIGHT-OF-WAY
POB – POINT OF BEGINNING
PI – PROPERTY LINE
CLF – CHAIN LINK FENCE
ABN – ABANDONED

SYMBOL LEGEND

○ – BOUNDARY CORNER SET
● – BOUNDARY CORNER FOUND
WV – WATER VALVE
FH – FIRE HYDRANT
SS – SANITARY SEWER MANHOLE
DI – STORM DRAINAGE MANHOLE
△ – CALCULATED POINT
■ – CONCRETE MONUMENT FOUND

LINE LEGEND

EXISTING PROPERTY LINE
ABANDONED PROPERTY LINE
ADJOINING PROPERTY LINE
EXISTING EASEMENT LINE
SETBACK LINE
FENCE
TREE LINE

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	S17°35'55"E	32.48'
L2	S6°54'18"W	60.60'

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	BEARING	CHORD
C1	0.89'	1462.39'	000° 00' 08"	N36°07'08"W	0.89'
C2	73.29'	1462.39'	002° 52' 18"	N32° 9 20"W	73.29'
C3	70.34'	1462.39'	002° 45' 22"	N29°28'24"W	70.34'

GRAPHIC SCALE

(IN FEET)
1 INCH = 100 FT.

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IMPORTANT NOTE:

THE COORDINATE/BEARING CONTROL SYSTEM SHOWN ON THIS PLAT IS TIED TO SOUTH CAROLINA STATE PLANE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), SOUTH CAROLINA LAMBERT ZONE 3900, UNITS IN INTERNATIONAL FEET.

TO PLACE THE BOUNDARIES SURVEYED ON A PLANE SURFACE THAT BEST APPROXIMATES A TRUE GRID COORDINATE SYSTEM, ALL DISTANCES FOR THIS PROJECT SHOULD BE MULTIPLIED BY THE COMBINED SCALE FACTOR (0.999834040143), DERIVED AT CONTROL POINT (CP.) 1 (SP COORDINATES N 313761.84, E 2283662.73)

NORTH CAROLINA LAND SURVEYOR No. L-3987 AARON TODD TAYLOR

I HEREBY STATE THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN. ALSO THERE ARE NO VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN.

AARON TODD TAYLOR SC PLS. 19857

SOUTH CAROLINA ESP ASSOCIATES, INC. NO. C05939 CERTIFICATE OF AUTHORIZATION

NO.	DATE	REVISION	BY
1	1-31	REVISED STMH NOTES	DNC

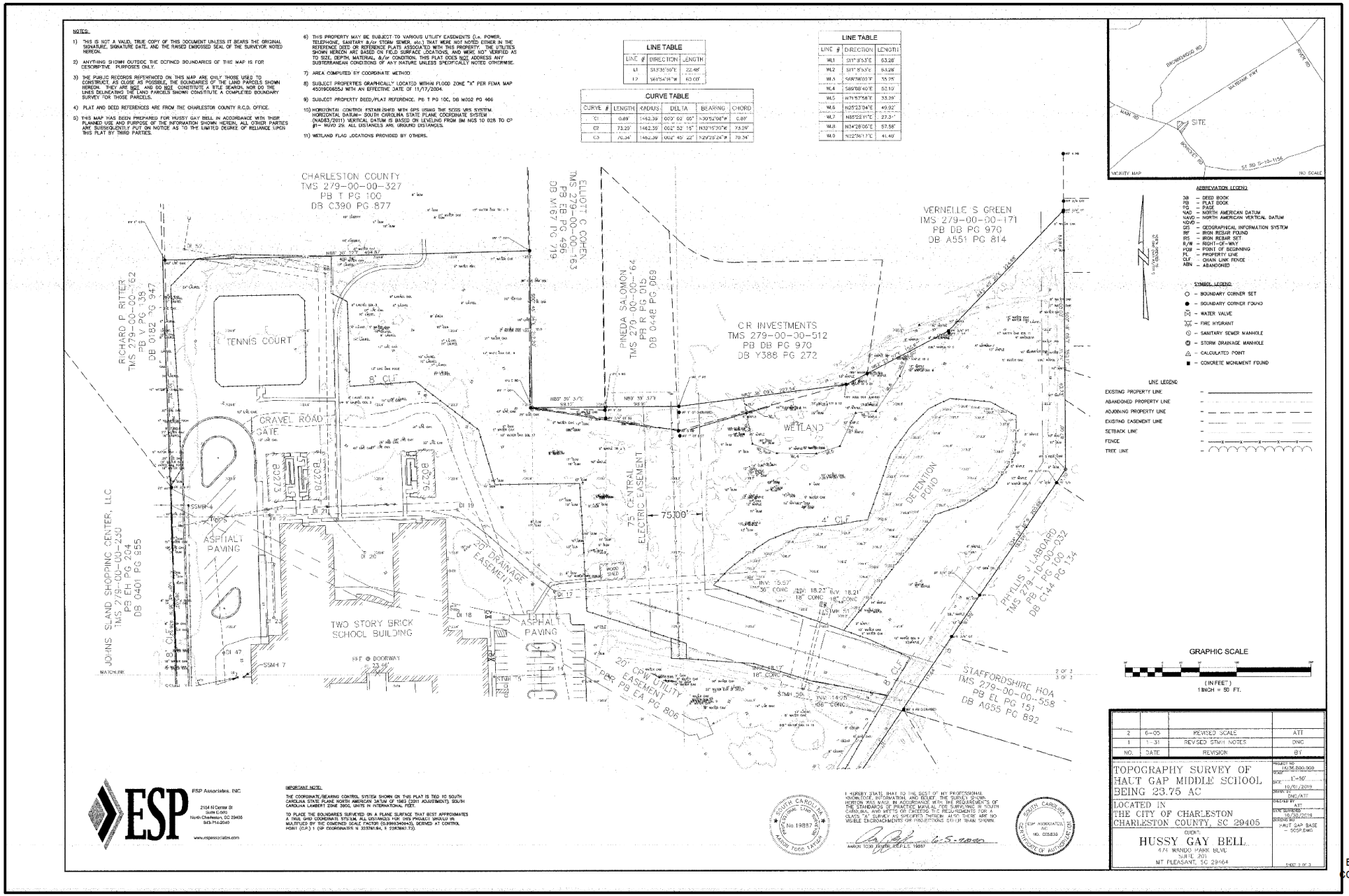
TOPOGRAPHY SURVEY OF HAUT GAP MIDDLE SCHOOL BEING 23.75 AC

LOCATED IN THE CITY OF CHARLESTON CHARLESTON COUNTY, SC 29405

CLIENT:
HUSSY GAY BELL
474 WANDO PARK BLVD
SUITE 201
MT. PLEASANT, SC 29464

ESP ASSOCIATES JOB NO.	HUSS.SUG.000
SCALE	1"=100'
DATE	10/31/2019
DRAWN BY	DNC/AET
CHECKED BY	ATT
DATE SURVEYED	10/30/2019
DRAWING NO.	HAUT GAP BASE SCSP.DWG
SHEET 1 OF 3	

EXISTING CONDITIONS SURVEY



EXISTING CONDITIONS SURVEY

NOTES:

1) THIS IS NOT A VALID, TRUE COPY OF THIS DOCUMENT UNLESS IT BEARS THE ORIGINAL SIGNATURE, SIGNATURE DATE, AND THE RAISED EMBOSSED SEAL OF THE SURVEYOR NOTED HEREON.

2) ANYTHING SHOWN OUTSIDE THE DEFINED BOUNDARIES OF THIS MAP IS FOR DESCRIPTIVE PURPOSES ONLY.

3) THE PUBLIC RECORDS REFERENCED ON THIS MAP ARE ONLY THOSE USED TO CONSTRUCT, AS CLOSE AS POSSIBLE, THE BOUNDARIES OF THE LAND PARCELS SHOWN HEREON. THEY ARE NOT AND DO NOT CONSTITUTE A TITLE SEARCH, NOR DO THE LINES DELINEATING THE LAND PARCELS SHOWN CONSTITUTE A COMPLETED BOUNDARY SURVEY FOR THOSE PARCELS.

4) PLAT AND DEED REFERENCES ARE FROM THE CHARLESTON COUNTY R.O.D. OFFICE.

5) THIS MAP HAS BEEN PREPARED FOR HUSSY GAY BELL IN ACCORDANCE WITH THEIR PLANNED USE AND PURPOSE OF THE INFORMATION SHOWN HEREIN, ALL OTHER PARTIES ARE SUBSEQUENTLY PUT ON NOTICE AS TO THE LIMITED DEGREE OF RELIANCE UPON THIS PLAT BY THIRD PARTIES.

6) THIS PROPERTY MAY BE SUBJECT TO VARIOUS UTILITY EASEMENTS (i.e. POWER, TELEPHONE, SANITARY &/or STORM SEWER, etc.) THAT WERE NOT NOTED EITHER IN THE REFERENCE DEED OR REFERENCE PLATS ASSOCIATED WITH THIS PROPERTY. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURFACE LOCATIONS, AND WERE NOT VERIFIED AS TO SIZE, DEPTH, MATERIAL, &/or CONDITION. THIS PLAT DOES NOT ADDRESS ANY SUBTERRANEAN CONDITIONS OF ANY NATURE UNLESS SPECIFICALLY NOTED OTHERWISE.

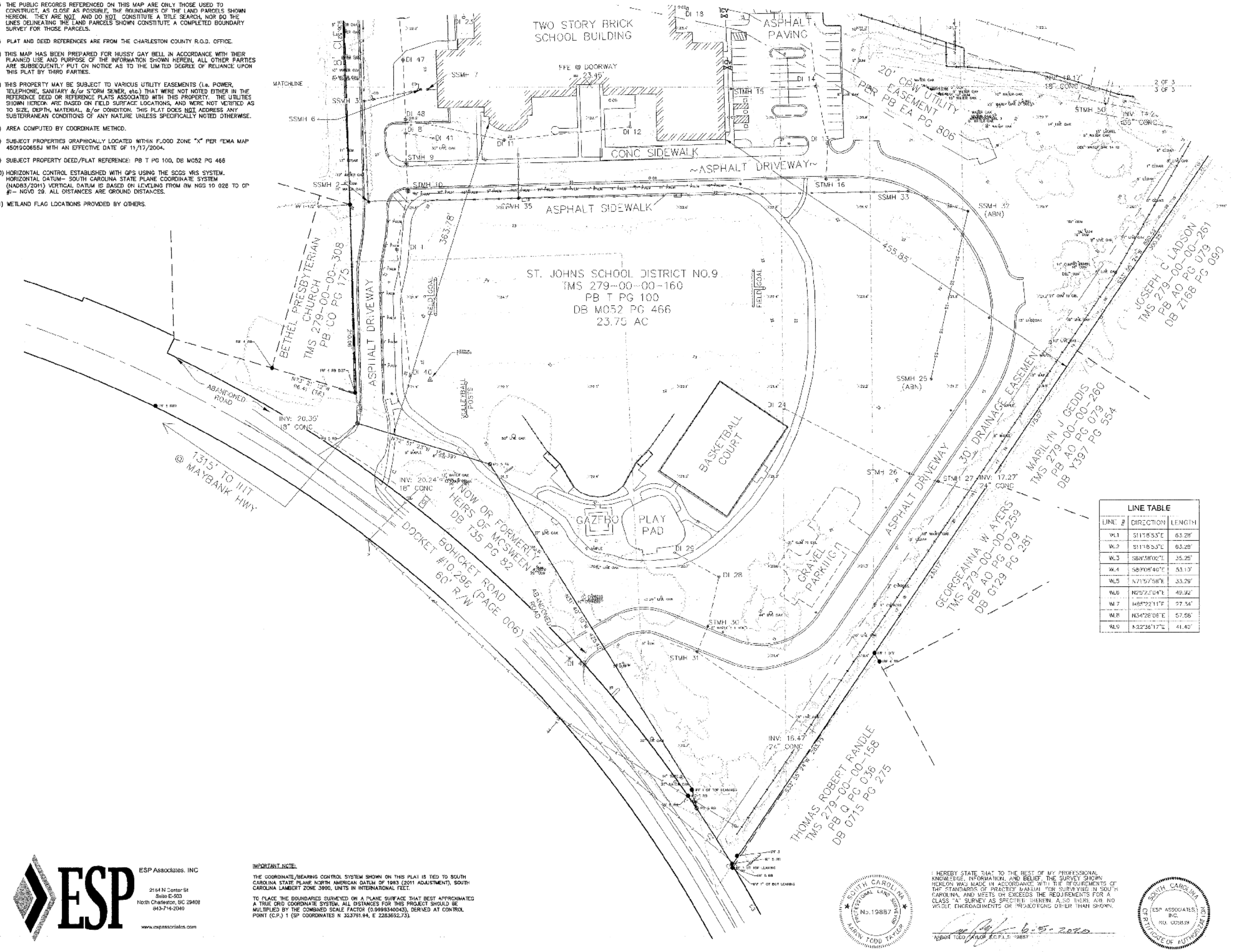
7) AREA COMPUTED BY COORDINATE METHOD.

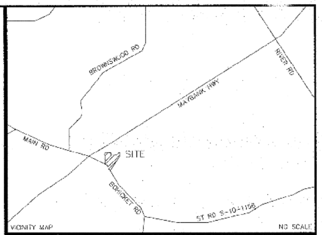
8) SUBJECT PROPERTIES GRAPHICALLY LOCATED WITHIN FLOOD ZONE "X" PER FEMA MAP 45019C0655J WITH AN EFFECTIVE DATE OF 11/17/2004.

9) SUBJECT PROPERTY DEED/PLAT REFERENCE: PB T PG 100, DB M052 PG 466

10) HORIZONTAL CONTROL ESTABLISHED WITH GPS USING THE SCGS VRS SYSTEM. HORIZONTAL DATUM– SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM (NAD83/2011) VERTICAL DATUM IS BASED ON LEVELING FROM BM NGS 10 026 TO CP #?– NGVD 29. ALL DISTANCES ARE GROUND DISTANCES.

11) WETLAND FLAG LOCATIONS PROVIDED BY OTHERS.





NORTH ORIENTED TO SC GRID (NAD 83/2011)

ABBREVIATION LEGEND

DB – DEED BOOK
PB – PLAT BOOK
PG – PAGE
NAD – NORTH AMERICAN DATUM
NAVD – NORTH AMERICAN VERTICAL DATUM
NGVD –
GIS – GEOGRAPHICAL INFORMATION SYSTEM
IRF – IRON REBAR FOUND
IRS – IRON REBAR SET
R/W – RIGHT-OF-WAY
POB – POINT OF BEGINNING
PL – PROPERTY LINE
CLF – CHAIN LINK FENCE
ABN – ABANDONED

SYMBOL LEGEND

○ – BOUNDARY CORNER SET
● – BOUNDARY CORNER FOUND
– WATER VALVE
– FIRE HYDRANT
– SANITARY SEWER MANHOLE
– STORM DRAINAGE MANHOLE
△ – CALCULATED POINT
■ – CONCRETE MONUMENT FOUND

LINE LEGEND

EXISTING PROPERTY LINE
ABANDONED PROPERTY LINE
ADJOINING PROPERTY LINE
EXISTING EASEMENT LINE
SETBACK LINE
FENCE
TREE LINE

LINE TABLE

LINE #	DIRECTION	LENGTH
WL1	S11°18'53"E	63.28'
WL2	S11°18'53"E	63.28'
WL3	S68°38'02"E	35.25'
WL4	S89°08'40"E	53.10'
WL5	N71°57'58"E	33.29'
WL6	N25°25'04"E	49.92'
WL7	N85°22'11"E	27.34'
WL8	N34°28'06"E	57.58'
WL9	N22°36'17"E	41.40'

LINE TABLE

LINE #	DIRECTION	LENGTH
L1	S13°35'55"E	22.48'
L2	S6°54'16"W	60.00'

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	BEARING	CHORD
C1	0.89'	1462.39'	000° 02' 05"	N30°52'08"W	0.89'
C2	73.29'	1462.39'	002° 52' 18"	N32°19'20"W	73.29'
C3	70.34'	1462.39'	002° 45' 22"	N29°28'24"W	70.34'

GRAPHIC SCALE

(IN FEET)
1 INCH = 50 FT.

NO.	DATE	REVISION	BY
2	6-05	REVISED SCALE	ATT
1	1-31	REVISED STMH NOTES	DNC

TOPOGRAPHY SURVEY OF
HAUT GAP MIDDLE SCHOOL
BEING 23.75 AC

LOCATED IN
THE CITY OF CHARLESTON
CHARLESTON COUNTY, SC 29405

CLIENT:
HUSSY GAY BELL
474 WANDO PARK BLVD
SUITE 201
MT PLEASANT, SC 29464

PROJECT NO: HU36.800.000
SCALE: 1"=50'
DATE: 10/01/2019
DRAWN BY: DNC/ATT
CHECKED BY: ATT
DATE SURVEYED: 10/30/2019
DRAWING NO: HAUT GAP BASE – SCSP.DWG

SHEET 3 OF 3

ESP Associates, INC
2154 N Center St
Suite E-503
North Charleston, SC 29406
843-714-2040
www.espassociates.com

IMPORTANT NOTE:

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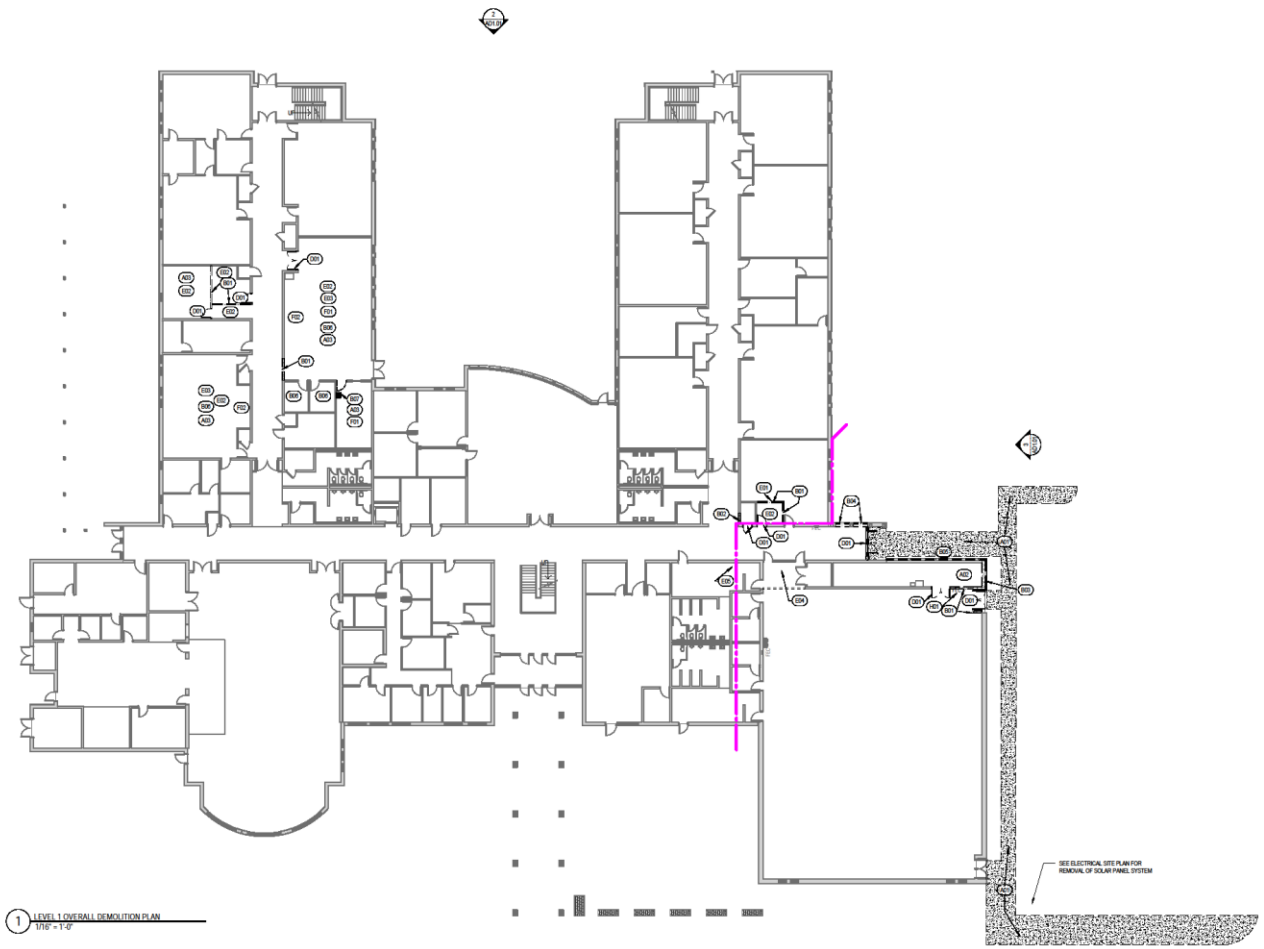
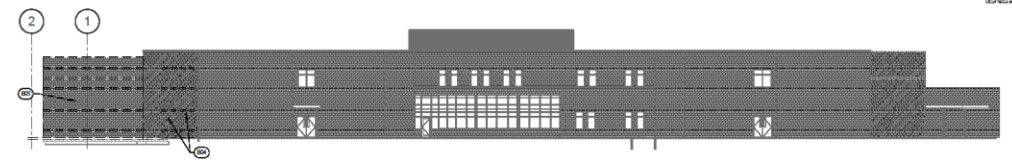
6-5-2020
AARON TODD TAYLOR S.C.P.L.S. 19887

EXISTING CONDITIONS SURVEY

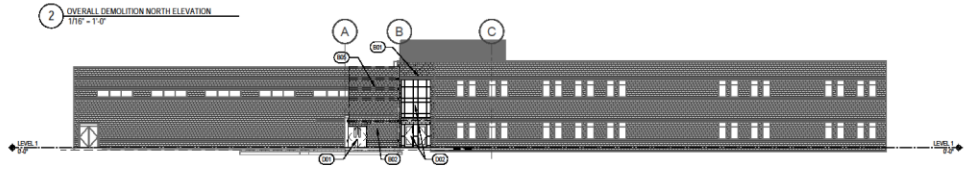
V003



1 LEVEL 1 OVERALL DEMOLITION PLAN
1/16" = 1'-0"



2 OVERALL DEMOLITION NORTH ELEVATION
1/16" = 1'-0"



3 OVERALL DEMOLITION EAST ELEVATION
1/16" = 1'-0"

DEMOLITION KEYNOTE LEGEND

KEYNOTE #	DESCRIPTION
SLABS & FLOOR FINISHES	
A01	REMOVE EXISTING CONCRETE SIDEWALK.
A02	REMOVE EXISTING CONCRETE FLOOR - SEE NEW PLAN FOR EXTENTS
A03	REMOVE ALL FLOORING AND WALL BASE. REPAIR AND PATCH FLOOR TO RECEIVE NEW FLOOR.
WALLS & WALL FINISHES	
B01	REMOVE WALL - SEE NEW PLANS AND SECTIONS FOR EXTENTS. CAP ANY UTILITIES AS REQUIRED - SEE PLUMBING AND ELECTRICAL DRAWINGS FOR MORE INFORMATION. PREPARE ADJACENT WALL AND FLOOR SURFACES TO RECEIVE NEW FINISHES AS SPECIFIED.
B02	CUT OPENING IN CMU WALL FOR NEW DOOR AND FRAME AS SCHEDULED. PROTECT ADJACENT SURFACES TO REMAIN.
B03	CUT OPENING IN EXISTING EXTERIOR WALL FOR NEW DOOR AND FRAME. PREPARE ADJACENT SURFACES TO REMAIN TO RECEIVE NEW FINISHES SPECIFIED.
B04	CUT OPENING IN EXISTING EXTERIOR WALL FOR NEW EXTERIOR WINDOW/STOREFRONT SYSTEM.
B05	REMOVE BRICK VENEER (FULL HEIGHT). CMU WALL TO REMAIN. PREPARE ADJACENT WALL AND FLOOR SURFACES TO RECEIVE NEW FINISHES AS SPECIFIED.
B06	REMOVE ALL WALL MOUNTED ACOUSTICAL PANELS AND DISPOSE OF OR TURN OVER TO OWNER AT OWNER'S DISCRETION. PATCH AND PAINT WALLS AS REQUIRED TO MATCH EXISTING.
B07	REMOVE EXISTING SINK. SEE PLUMBING FOR CAPPING WATER SUPPLIES AND WASTE PIPING. WALL TO BE FINISHED TO MATCH EXISTING CONSTRUCTION.
DOORS & FRAMES	
D01	REMOVE DOOR AND FRAME COMPLETELY PREPARE ADJACENT SURFACES TO RECEIVE FINISHES AS SPECIFIED. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION AT LOCATIONS FOR INFILL.
D02	REMOVE ALUMINUM FRAMED ENTRANCE SYSTEM
CEILINGS & CEILING MOUNTED EQUIPMENT	
E01	REMOVE EXISTING ACOUSTICAL CEILING AND GRID SYSTEM AS REQUIRED TO INSTALL NEW CEILING.
E02	REMOVE EXISTING ACOUSTICAL CEILING AND GRID SYSTEM COMPLETE INCLUDING ALL LIGHTS AND DIFFUSERS. PROTECT ANY SPRAY FIRE PROOFING ENCOUNTERED. PREPARE ADJACENT SURFACES TO REMAIN TO RECEIVE NEW FINISHES AS SPECIFIED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION
E03	REMOVE EXISTING ACOUSTICAL CEILING SOUND BAFFLES AND REPLACE WITH ACOUSTICAL CEILING PANELS TO MATCH EXISTING. REPLACE DAMAGED OR DIRTY PANELS OR GRID.
E04	REMOVE EXISTING GWB CEILING AND SUPPORT SYSTEM COMPLETE INCLUDING ALL LIGHTS AND DIFFUSERS. PROTECT ANY SPRAY FIRE PROOFING ENCOUNTERED. PREPARE ADJACENT SURFACES TO REMAIN TO RECEIVE NEW FINISHES AS SPECIFIED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
E05	REMOVE EXISTING GWB CEILING AS REQUIRED TO INSTALL NEW RACEWAYS FOR NEW ADDITION.REINSTALL CEILING AFTER COMPLETION AND INSTALL ACCESS PANELS AS REURED.
EQUIPMENT AND FURNITURE	
F01	REMOVE BAND STORAGE AND TURN OVER TO OWNER FOR REINSTALLATION IN NEW ADDITION
F02	PROTECT EXISTING ELECTRONIC BOARD AND WHITE BOARDS FOR USE IN RENOVATED CLASSROOMS
FIRE EXTINGUISHERS	
H01	REMOVE FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER. TURN OVER TO THE OWNER.

S&W
ARCHITECTURE
ENGINEERING
INTERIORS
STEVENS & WILKINSON
1501 MAIN STREET, SUITE 730
COLUMBIA, SC 29201
P 803.765.0320 F 803.254.8209
WWW.STEVENS-WILKINSON.COM

RED IRON ARCHITECTS
RED IRON ARCHITECTS
4591 DURANT AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405

BROWNSTONE
BROWNSTONE GROUP
4085 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19055.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 OVERALL DEMOLITION PLAN

AD1.01

B:\M 360 /Haut Gap Middle School/Haut Gap_ARCH_V19.rvt
7/30/2020 4:17:39 PM

A | B | C | D | E | F | G | H | J

GENERAL NOTES:
STUD CONSTRUCTION

1. BASIS OF DESIGN: *STEEL FRAMED PARTITIONS*
DESIGN IS BASED ON GUIDELINES INCLUDED IN PRODUCT TECHNICAL INFORMATION OF THE STEEL MANUFACTURE'S ASSOCIATION LATEST EDITION OF THE SSMA PUBLICATION AND THE FOLLOWING PERFORMANCE CRITERIA:

A. LIMITING HEIGHT CRITERIA:
DEFLECTION OF **L/240** AT **5 LBS. PER SQ. FT. (7.5 LBS. PER SQ. FT)(15 LBS. PER SQ. FT.)** CONSTANT AIR-PRESSURE LOADS

B. THICKNESS-STEEL COMPONENTS:

GAUGE	DESIGN THICKNESS
25	0.0188
22	0.0283
20	0.0346
18	0.0451

2. BASIS OF DESIGN: *SHAFT WALL PARTITIONS*
DESIGN IS BASED ON UNITED STATES GYPSUM COMPANY PRODUCT LITERATURE SA 926 DATED 2000 AND THE FOLLOWING PERFORMANCE CRITERIA:
A. LIMITING HEIGHT CRITERIA:
DEFLECTION OF **L/240** AT **5 LBS. PER SQ. FT.** INTERMITTENT AIR-PRESSURE LOADS

B. THICKNESS-STEEL COMPONENTS:

GAUGE	DESIGN THICKNESS
25	0.0188
22	0.0310
20	0.0356

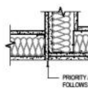
3. MINIMUM GAUGE:
IF LIMITING HEIGHT AS SCHEDULED IN PARTITION DETAILS EXCEEDS PROJECT CONDITIONS OR IF THE SELECTED STEEL STUD MANUFACTURE'S THICKNESS OF STEEL COMPONENTS VARIES FROM THE BASIS OF DESIGN AS SET FORTH ABOVE.
PROVIDE MANUFACTURE'S STANDARD THICKNESS (GAUGE) THAT MEETS OR EXCEEDS LIMITING HEIGHT PERFORMANCE CRITERIA FOR STUD DEPTH AND SPACING INDICATED.

4. DOOR JAMBS
PROVIDE DOUBLE 20 GA. STUDS AT ALL DOOR OPENINGS, EXTEND FROM FLOOR TO STRUCTURE ABOVE. TYPICAL FOR ALL DOORS IN METAL STUD WALLS.

GENERAL NOTES:
FIRE RATED ASSEMBLIES

1. ALL FIRE-RATED ASSEMBLIES TO EXTEND FROM TOP OF SLAB TO UNDERSIDE OF STRUCTURE. SEAL TOP OF ASSEMBLY TO THE UNDERSIDE OF METAL DECK OR STEEL BEAM AS REQUIRED TO ACHIEVE FIRE PROTECTION RATING.
2. AT GWB/STUD FIRE RATED ASSEMBLIES, INSTALL FRAMING AND GYPSUM WALL BOARD TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS TO MAINTAIN ACOUSTICAL OR FIRE RATINGS (IF ACOUSTICAL PARTITION IS ALSO FIRE-RATED). SEE DETAILS AT SHEET **A0.20**.
3. SEAL BOTTOM OF WALL TO CONCRETE SLAB TO ACHIEVE FIRE PROTECTION RATING. SEE DETAILS AT SHEET **A0.20**.
4. REFER TO SPECIFICATIONS FOR FIRE-RATED JOINT SYSTEMS FOR FIRE-RATED SEALANTS AND FIRESTOP CAULKING.
5. INSTALL FRAMING AND GWB TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER PENETRATIONS OF FIRE-RATED ASSEMBLIES TO MAINTAIN FIRE RESISTIVE RATINGS PER UL APPROVED DETAIL.

ASSEMBLY PRIORITY LEGEND



PROVIDE RATED ASSEMBLIES IN ACCORDANCE WITH U.L. LISTING, MFR. INSTRUCTIONS & APPROVED DETAILS INDICATEDING HOURS OF FIRE RESISTANCE. REFER TO LIFE SAFETY PLANS, PLANS & ENLARGED PLANS FOR PARTITION TYPES, LOCATIONS & EXTENT OF RATED WALLS.

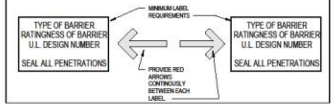
PRIORITY OF RATED ASSEMBLIES:

- TWO HOUR FIRE & SMOKE WALL — PRIORITY 1 - HIGHEST
- TWO HOUR FIRE WALL — PRIORITY 2
- TWO HOUR SHAFT WALL — PRIORITY 3
- ONE HOUR FIRE & SMOKE WALL — PRIORITY 4
- ONE HOUR FIRE WALL — PRIORITY 5
- ONE HOUR SHAFT WALL — PRIORITY 6
- NON-RATED — PRIORITY 7 - LOWEST

GENERAL NOTES - FIRE RATED STENCIL

1. APPLY PARTITION LABELS ABOVE THE CEILING ON ALL RATED AND SMOKE TIGHT ASSEMBLIES. LABEL AS PER ASSEMBLY RATING.
2. COLOR TO BE BRIGHT RED. MINIMUM TEXT SIZE AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.
3. APPLY LABEL AT BEGINING AND END OF EACH LENGTH OF ASSEMBLY AND APPLY LABEL INTERMITTENLY BETWEEN END/BEGINING AT MINIMUM SPACING OF 12'-0" O.C.
4. ARROWS TO BE CONTINUOUS AROUND ASSEMBLY.
5. FIRE/SMOKE DAMPER ACCESS AND OTHER MECHANICAL ELEMENTS SHALL BE IDENTIFIED AS PER ***IBC 2015 SECTION 717.4***. ALL OTHER IDENTIFIERS SHALL BE IN COMPLIANCE WITH THE IBC AND ALL OTHER APPLICABLE CODES AND MUNICIPALITY REQUIREMENTS.

FIRE RATED STENCIL DETAIL



GENERAL NOTES:
NON-RATED & ACOUSTICAL PARTITIONS/ASSEMBLIES

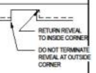
1. ALL INTERIOR PARTITIONS TO EXTEND TO DECK UNLESS NOTED OTHERWISE BY PARTITION TYPE HEAD CONDITION SCHEDULE. SEE PLAN FOR PARTITION IDENTIFICATION.
2. ALL ACOUSTIC PARTITIONS TO EXTEND FROM TOP OF SLAB TO UNDERSIDE OF STRUCTURE. SEAL TOP AND BOTTOM TYPICALTO THE UNDERSIDE OF METAL DECK OR STEEL BEAM AS REQUIRED TO ACHIEVE ACOUSTIC OR FIRE PROTECTION RATING. SEE DETAILS AT SHEET **A0.20**. INSTALL FRAMING AND GYPSUM WALL BOARD TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS TO MAINTAIN ACOUSTICAL OR FIRE RATINGS (IF ACOUSTICAL PARTITION IS ALSO FIRE-RATED).
3. ALL INTERIOR METAL STUD PARTITIONS TO HAVE SOUND BATTS INSULATION UNLESS NOTED OTHERWISE BY PARTITION MODIFIER. AT 3 5/8" STUD CAVITIES, PROVIDE 3 1/2" SOUND BATTS. AT 6" OR 8" STUD CAVITIES PROVIDE 5 1/2" SOUND BATTS.
4. ALL INTERIOR ROOF DRAINS AND OVERFLOW DRAINS TO BE WRAPPED CONTINUOUSLY WITH SOUND ATTENUATION INSULATION.
5. ALL PARTITIONS CONTAINING PLUMBING PIPING SHALL BE THERMALLY INSULATED WITH MINERAL WOOL.
6. THE FOLLOWING LIST OF ROOMS (IF USED) SHALL HAVE THEIR PERIMETER PARTITIONS INSULATED USING MINERAL WOOL: ELETRICAL ROOMS, MECHANICAL ROOMS, AV EQUIPMENT ROOMS, DATA OR TELECOM ROOMS, SPRINKLER RISER ROOMS AND FIRE PUMP ROOMS.

GENERAL NOTES:
GYPSUM WALLBOARD

1. DO NOT INSTALL GYPSUM WALLBOARD IN DIRECT CONTACT WITH THE FLOOR. ALL GWB SHALL BE SHIMMED 1/2" ABOVE FLOOR SLAB WITH NON-POROUS SHIM. PLASTIC NON-POROUS HORESHOE SHIMS ARE RECOMMENDED; GYPSUM WALLBOARD SHIMS ARE NOT ACCEPTABLE. PROVIDE BACKER ROD & CONTINOUS ACOUSTICAL OR FIRE RATED SEALANT TOOLED FOR HOURGLASS SHAPE PER MFR'S RECOMMENDATIONS.
2. WHERE GYPSUM WALL BOARD EXTENDS TO THE UNDERSIDE OF STRUCTURE, STOP GYPSUM WALL BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED.
3. TYPICAL AT ALL INTERIOR PARTITIONS, GYPSUM WALLBOARD TO BE 5/8" TYPE "X" UNLESS NOTED OTHERWISE AT PARITION TYPE MODIFIER OR AS SCHEDULED IN SPECIFICATION.
4. TYPICAL AT ALL EXTERIOR PERIMETER WALLS, INSTALL 5/8" TYPE "X" MOLD AND MOISTURE RESISTANT GYPSUM WALLBOARD.
5. STAGGER JOINTS AT INSTALLATIONS OF MULTIPLE LAYERS OF GYPSUM WALLBOARD.

GENERAL NOTES:
GYPSUM WALLBOARD REVEALS

1. STANDARD, WHERE INDICATED IN THESE DOCUMENTS, PROVIDE REVEALS OF TYPE AND SIZE INDICATED AS SPECIFIED.
2. ELEVATIONS MAY NOT SHOW ALL FACES OF COLUMNS OR FACES OF EVERY WALL - G.C. SHALL ASSUME THAT ALL REVEALS WILL RETURN TO INSIDE CORNER UNLESS OTHERWISE NOTED.
3. AT ALL INTERSECTIONS OF VERTICAL AND HORIZONTAL REVEALS, PROVIDE FACTORY FABRICATED INTERSECTIONS AND CORNERS.

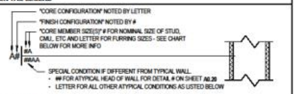


GENERAL NOTES:
CONCRETE MASONRY UNIT ASSEMBLIES

1. ALL CMU PARTITIONS ARE TO BE INSTALLED TO UNDERSIDE OF DECK AND ANCHORED TO STRUCTURE UNLESS NOTED OTHERWISE BY PARTITION TYPE HEAD CONDITION AS SCHEDULED AT FLOOR PLAN PARTITION TYPE TAG. FOR WALLS NOT DIRECTLY ANCHORED TO STRUCTURE, WALL SHALL BE BRACED TO STRUCTURE. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
2. ALL CMU PARTITIONS SHALL BE BRACED TO STRUCTURE IF NOT DIRECTLY ADAJCENT TO OTHER CMU PARTITIONS, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
3. ALL CMU PARTITIONS SHALL BE REINFORCED. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
4. SEE STRUCTURAL DRAWINGS FOR CORE GROUTING LOCATIONS.
5. SEE STRUCTURAL DRAWINGS FOR FOOTING/SLAB CONDITIONS UNDER CMU PARTITION ASSEMBLIES.
6. AT TOILET ROOM CHASES, BOTH WYTHES OF THE CHASE SHALL BE MADE OF CMU OF THE SAME WIDTH UNLESS NOTED OTHERWISE BY PARTITION TYPE TAG ON THE FLOOR PLAN.

PARTITION TYPE IDENTIFICATION LEGEND & NOTES

PARTITION TAG LEGEND



"CORE CONFIGURATION"

- B CMU W/M1 TYPE ABOVE - SCHOOL CORRIDOR
- C CMU
- D CMU + FC
- E FC + CMU + FC
- F FC
- G MS (FINISH ONE SIDE)
- L MS + FC (FINISH ONE SIDE)
- M MS (FINISH TWO SIDES)
- N MS + FC (FINISH TWO SIDES)
- P FC + MS + FC
- S GSL + MSS (FINISH ONE SIDE)
- T GSL + MSS (FINISH BOTH SIDES)
- U WS (FINISH ONE SIDE)
- V WS + FC/WF (FINISH ONE SIDE)
- W WS (FINISH TWO SIDES)
- X WS + FC/WF (FINISH TWO SIDES)
- Y FC/WF + WS + FC/WF

ABBREVIATIONS

- II = "CORE"
- (#) = NUMBER OF LAYERS OF GWB
- CIP = CAST-IN-PLACE CONCRETE
- CMU = CONCRETE MASONRY UNIT
- FC = STUD FURRING (TYPE AS SCHEDULED)
- GSL = GYPSUM SHAFT LINER
- GWB = GYPSUM WALLBOARD, TYPE AS SCHEDULED
- HF = HAT-SHAPED METAL FURRING
- MS = METAL STUD FRAMING
- MF = METAL STUD FURRING
- MSS = METAL SHAFTWALL STUD FRAMING
- RC = RESILIENT CHANNEL
- WS = WOOD STUD FRAMING
- WF = WOOD FURRING
- ZF = METAL Z-FURRING

"FINISH CONFIGURATION"

1. II + GWB (1) or GWB (1) + II + GWB (1)
2. II + GWB (2) or GWB (2) + II + GWB (2)
3. II + GWB (3) or GWB (3) + II + GWB (3)
4. GWB (1) + II + GWB (2)
5. GWB (1) + II + GWB (3)
6. GWB (2) + II + GWB (3)
7. GWB (2) + II + GWB (1)
8. GWB (3) + II + GWB (1)
9. GWB (3) + II + GWB (2)

PARTITION - "CORE MEMBER SIZE"

METAL STUDS NOMINAL	METAL STUDS ACTUAL	METAL SHAFTWALL STUDS NOMINAL	METAL SHAFTWALL STUDS ACTUAL	CONCRETE MASONRY UNITS NOMINAL	CONCRETE MASONRY UNITS ACTUAL
1	1 5/8"	2	2 1/2"	4	3 5/8"
2	2 1/2"	4	4"	6	5 5/8"
3	3 5/8"	6	6"	8	7 5/8"
4	4"			10	9 5/8"
6	6"			12	11 5/8"
8	8"				

METAL STUD FURRING (MSF)

CALLOUT	TYPE	SIZE (DEPTH ONLY)
A	HF	7/8"
B	HF	1 1/2"
C	RC	1/2"
D	ZF	1"
E	ZF	1 1/2"
F	ZF	2"
G	ZF	2 1/2"
H	MSF	3/4"
J	MSF	1"
K	MSF	1 1/2"
L	MSF	2"

1. CAST-IN-PLACE CONCRETE "STRUCTURAL MEMBER SIZE IS DIMENSIONSED AT PLANS, SEE STRUCTURAL DWGS FOR MORE INFORMATION.
2. RESILIENT CHANNEL IS 1/2" DEEP, SEE SPECIFICATIONS FOR LENGTH AND TYPE.
3. FOR ALL METAL STUD FURRING, ONLY DEPTH IS NOTED. SEE SPECIFICATION FOR ALL OTHER SIZE AND GAUGE REQUIREMENTS. FURRING LEGS SHALL BE OF DIMENSION ADEQUATE TO MEET PERFORMANCE AND FASTENING REQUIREMENTS.

PARTITION - "RATING" - CALLED OUT ON LIFE SAFETY PLANS

- SP SMOKE PARTITION
- SB SMOKE BARRIER
- 5P 30 MINUTE FIRE PARTITION
- 1B 1 HOUR FIRE BARRIER
- 1P 1 HOUR FIRE PARTITION
- 1W 1 HOUR FIRE WALL
- 2B 2 HOUR FIRE BARRIER
- 2P 2 HOUR FIRE PARTITION
- 2W 2 HOUR FIRE WALL
- 3B 3 HOUR FIRE BARRIER
- 3P 3 HOUR FIRE PARTITION
- 3W 3 HOUR FIRE WALL

ABBREVIATIONS:

- B FIRE BARRIER (IBC 2015 SECTION 707)
- P FIRE PARTITION (IBC 2015 SECTION 708)
- SB SMOKE BARRIER (IBC 2015 SECTION 709)
- SP SMOKE PARTITION (IBC 2015 SECTION 710)
- W FIRE WALL (IBC 2015 SECTION 706)

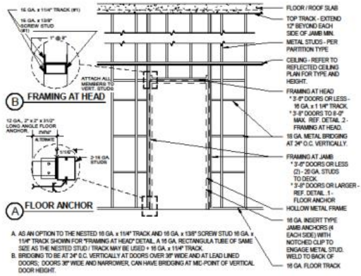
PARTITION - "HEAD CONDITION"

1. ALL RATED WALLS ARE TO UNDERSIDE OF DECK.
2. ALL ACOUSTICAL WALLS ARE TO UNDERSIDE OF DECK.
3. SEE PARTITION TYPE DETAILS FOR TYPICAL HEAD OF WALL CONDITION. IF HEAD OF WALL CONDITION IS ATYPICAL, NUMBER NOTED IN PARTITION TYPE TAG IN SPECIAL CONDITIONS AREA OF TAG CORRESPONDS TO DETAIL # ON HEAD OF WALL CONDITION DETAILS ON SHEET **A0.20**

PARTITION - "SPECIAL CONDITION"

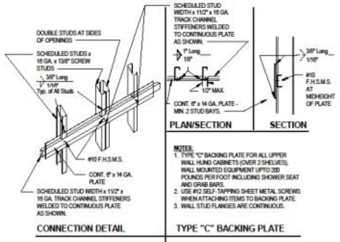
FOR ALL OTHER ATYPICAL CONDITIONS, LETTER CORRESPONDS TO LIST BELOW:

A. PROVIDE ABUSE RESISTANT GYPSUM WALLBOARD AT OUTERMOST LAYER OF "FINISH CONFIGURATION".
B. PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM WALLBOARD AT ALL GWB LAYERS.
C. NOT USED
D. INSTALL BATT INSULATION TO MEET ACOUSTICAL DESIGN RATING. STC = 55.
E. PARTIAL HEIGHT WALL, CAP TOP OF WALL WITH SOLID SURFACE SILL. SEE ELEVATIONS FOR HEIGHT OF WALL. LIGHT GAUGE MFR.'S ENGINEER OF RECORD TO DESIGN WALL TO MEET PERFORMANCE CRITERIA AS DETAILED AT GENERAL NOTES ON A0.10. IF REQUIRED, PROVIDE STRCTURAL STEEL TUBE POST TO PROVIDE ADDITIONAL SUPPORT FOR WALL.
F. STUD AND GWB TO 6" MIN ABOVE HIGHEST ADJACENT CEILING. SEE HEAD DETAIL ## ON A0.##
G. STUD TO STRUCTURE AND GWB TO 6" MIN ABOVE HIGHEST ADAJACENT CEILING. SEE HEAD DETAIL ## ON A0.##
H. CMU TO ONE COURSE ABOVE HIGHEST ADJACENT CEILING.
I. NOT TO BE USED
J. PARTITION TO UNDER OF METAL PAN STAIR/LANDING.
K. STC 55 MIN. ACOUSTIC RATED PARTITION. GROUT ALL CORES SOLID.
L. NOT USED
M. NOT USED
N. NOT USED
O. NOT TO BE USED
P. NOT USED
Q. NOT USED
R. NOT USED
S. NOT USED
T. NOT USED



A. AS AN OPTION TO THE NESTED 16 GA. x 11/4" TRACK AND 16 GA. x 13/8" SCREW STUD 16 GA. x 11/4" TRACK SHOWN FOR "FRAMING AT HEAD" DETAIL, A 16 GA. RECTANGULA TUBE OF SAME SIZE AS THE NESTED STUD / TRACK MAY BE USED + 16 GA. x 11/4" TRACK.
B. BRIDGING TO BE AT 24" O.C. VERTICALLY AT DOORS OVER 36" WIDE AND AT LEAD LINED DOORS; DOORS 36" WIDE AND NARROWER, CAN HAVE BRIDGING AT MID-POINT OF VERTICAL DOOR HEIGHT.

1 GENERAL - DOOR FRAMING REINFORCING
1" = 1'-0"

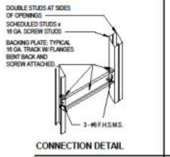


CONNECTION DETAIL

TYPE "C" BACKING PLATE

NOTES:

1. TYPE "C" BACKING PLATE FOR ALL UPPER WALL HUNG CABINETS (OVER 2 SHELVES), WALL MOUNTED EQUIPMENT UPTO 200 POUNDS PER FOOT INCLUDING SHOWER SEAT AND GRAB BARS.
2. USE #12 SELF-TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BACKING PLATE.
3. WALL STUD FLANGES ARE CONTINUOUS.

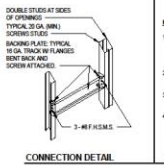


CONNECTION DETAIL

TYPE "B" BACKING PLATE

NOTES:

1. TYPE "B" BACKING PLATE FOR UPPER WALL HUNG CABINETS (UP TO 2 SHELVES), BASE CABINETS, FULL HEIGHT CABINETS, FILM VIEWING COUTNERS, WALL HUNG BENCHES, HANDRAILS, GUARDRAILS, AND WALL HUNG EQUIPMENT - MAXIMUM WEIGHT 100 POUNDS
2. VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE AND NUMBER REQUIRED WITH MANUFACTURER OF ITEMS IN NOTE 1.
3. USE #12 SELF-TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BAKCING PLATE.
4. WALL STUD FLANGES ARE CONTINUOUS.



CONNECTION DETAIL

TYPE "A" BACKING PLATE

NOTES:

1. TYPE "A" BACKING PLATE FOR MISC. ITEMS; I.E. SURFACE MOUNTED MIRRORS, WASTE RECEPTACLES, TOWEL DISPENSERS, CHAIR RAILS, ETC. MAXIMUM WEIGHT 50 POUNDS
2. VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE AND NUMBER REQUIRED WITH ACCESSORY MANUFACTURER.
3. USE #12 SELF-TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BAKCING PLATE.
4. WALL STUD FLANGES ARE CONTINUOUS.

4 BACKING PLATE AND CONNECTION DETAILS
1" = 1'-0"

GENERAL NOTES

1. THE CONTRACT DOCUMENTS CONSIST OF THIS SET OF DRAWINGS, THE PROJECT MANUAL, ADDENDA, CONSTRUCTION CHANGE DIRECTIVES, CHANGE ORDERS, THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR, CONDITIONS OF THE CONTRACT AND ANY OTHER INFORMATION WRITTEN AND MUTUALLY AGREED UPON BETWEEN THE OWNER AND THE CONTRACTOR.
2. THIS SET OF DRAWINGS HAS AN ACCOMPANYING PROJECT MANUAL, WHICH IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL ASPECTS OF THESE DRAWINGS ARE DEPEND ON THE INFORMATION CONTAINED THEREIN.
3. THESE DRAWINGS ARE COMPLEMENTARY AND INTERRELATED: WORK OF ANY INDIVIDUAL TRADE IS NOT NECESSARILY CONFINED TO SPECIFIC DOCUMENTS, CHAPTERS OR LOCATIONS.
4. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
5. WHERE DETAILS ARE SHOWN ON ARCHITECTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE ON THE PLANS.
6. APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF DRAWINGS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THERE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
7. CONTRACTOR SHALL COORDINATE ALL CIVIL DOCUMENTS INCLUDED IN THIS SET WITH EXISTING SITEWORK CONDITIONS AND REPORT ANY DISCREPANCIES IN THE DOCUMENTS TO THE ARCHITECT.
8. IF DISCREPANCIES OR INCONSISTENCIES IN THE DOCUMENTS ARE DISCOVERED, NOTIFY THE ARCHITECT IMMEDIATELY USING THE DESIGNATED "REQUEST FOR INFORMATION" PROCEDURE AS SPECIFIED IN THE PROJECT MANUAL.
9. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
10. DO NOT SCALE THE DRAWINGS; USE DIMENSIONS ONLY. NOTIFY ARCHITECT OF SIGNIFICANT DISCREPANCIES IMMEDIATELY UPON DISCOVERY.
11. THESE DOCUMENTS MAY CONTAIN 3-D AXON AND AERIAL IMAGES FOR PROJECT ORIENTATION. THESE IMAGES MAY NOT ACCURATELY REFLECT ALL PROVISION OF THE CONTRACT DOCUMENTS. THESE IMAGES ARE ARTISTIC IN NATURE AND DO NOT TAKE PRECEDENCE OVER NOTES, DIMENSION OR DETAILS SHOWN AT THESE DOCUMENTS.
12. IT IS THE INTENT OF THE CONTRACT DOCUMENT TO COMPLY WITH ALL CODES AND ORDINANCES IN EFFECT AT THE TIME THE PERMIT IS ISSUED. NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF SUSPECTED DEVIATION.
13. ALL UL AND ASTM STANDARDS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION UNLESS NOTED OTHERWISE.
14. EQUIVALENT MATERIALS SUBSTITUTED AS PER "APPROVED EQUAL" NOTE SHALL BE APPROVED BY THE ARCHITECT/ENGINEER OF RECORD BEFORE ACCEPTANCE OF BID BY GENERAL CONTRACTOR. ANY MATERIAL DESIGNATED WITH A BRAND NAME MAY BE SUBSTITUTED WITH IT'S EQUAL IF THE SO CALLED EQUIVALENT IS FIRST APPROVED BY THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL SUPPLY INFORMATION AS REQUESTED TO VERIFY MATERIAL IS EQUAL TO SPECIFIED MATERIAL. SEE SPECIFICATIONS FOR APPROPRIATE PROTOCOLS FOR REVIEW OF SUBSTITUTION REQUESTS.
15. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE ARCHITECT/ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE ARCHITECT/ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENTS SPECIFICATIONS DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS AND SUPPLIERS.
16. CONTRACTOR SHALL PROVIDE PROJECT SIGNAGE INCLUDING RENDERING OF BUILDING, NAME OF OWNER, ARCHITECT, ENGINEER AND MAJOR SUB-CONTRACTORS.
17. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE PROJECT STATE. SUBMITTAL OF SUCH SYSTEMS TO THE ARCHITECT/ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND OR SIZES OF MEMBERS SHOWN ON THE CONTRACT DOCUMENTS, AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE ARCHITECT/ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED WITHIN THE CONTRACT DOCUMENTS. SEE SPECIFIC SECTIONS OF GENERAL NOTES ABOVE AND THE SPECIFICATIONS FOR APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER.
18. FIRE ALARM, SPRINKLER SYSTEMS, AND KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS SHALL BE SUBMITTED AND APPROVED BY THE FIRE MARSHALL'S OFFICE HAVING JURISDICTION PRIOR TO INSTALLATION.
19. ALL EQUIPMENT, SPECIALTIES, FURNISHINGS AND CASEWORK INDICATED ON THE DOCUMENTS SHALL BE INCLUDED IN THE CONTRACT UNLESS SPECIFICALLY INDICATED TO NOT BE IN THE CONTRACT (N.I.C.).
20. ALL TRAILER AND/OR CONSTRUCTION OFFICES SHALL BE PERMITTED SEPARATELY FROM BUILDING PERMIT. PERMITS SHALL BE PURCHASED BY THE GENERAL CONTRACTOR FROM THE AUTHORITY HAVING JURISDICTION. THE COST OF PERMITS SHALL BE INCLUDED IN THE CONTRACT COST.
21. MECHANICAL, PLUMBING AND ELECTRICAL SUBCONTRACTORS SHALL SUBMIT AFFIDAVITS FOR EACH BUILDING PERMIT TO THE BUILDING PERMITS SECTION BEFORE REQUESTING INSPECTIONS. OBTAIN AFFIDAVITS FROM THE BUILDING PERMITS SECTION.
22. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL ITEMS, EQUIPMENT, HARDWARE, CLEARANCES, MOUNTING HEIGHTS, SIGNAGE, SYSTEMS, ETC BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REPORT TO THE ARCHITECT ANY DISCREPANCIES NOTED BETWEEN THE REQUIREMENTS OF THE ACT AND THE DOCUMENTS AND WAIT FOR DIRECTIONS ON THE RESOLUTION OF THE DISCREPANCIES.
23. EXTERIOR SIGNAGE LOCATIONS, NUMBER, SIGN AND DESIGN ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN.
24. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, WHETHER OR NOT THEY ARE SHOWN. CONTRACTOR SHALL PROTECT FROM DAMAGE, ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES AND OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
25. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE, WHILE CONSTRUCTION IS IN PROGRESS AND UNTIL JOB IS COMPLETE.
27. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
28. CONSTRUCTION TECHNIQUES, PROCEDURES, SEQUENCING AND SCHEDULING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
29. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT PRIOR TO INSTALLATION. ANY FIRE ALARM PLANS INCLUDED IN THIS SET OF PLANS ARE FOR REFERENCE ONLY. NOT FOR PERMIT.
30. FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A FIRE SPRINKLER PERMIT PRIOR TO INSTALLATION. ANY FIRE SPRINKLER PLANS INCLUDED IN THIS SET OF PLANS ARE FOR REFERENCE ONLY. NOT FOR PERMIT.
31. WALLS THAT ARE NOT TAGGED SHALL MATCH AJACENT WALLS OF LIKE SIZE AND INDICATION INCLUDING RATING. WALLS SHALL CONTINUE TO DECK UNLESS OTHERWISE INDICATED.

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STATE OF SOUTH CAROLINA — STEVENS & WILKINSON OF SOUTH CAROLINA, INC. COLUMBIA — REGISTERED ARCHITECTS
CORPORATE SEAL

STATE OF SOUTH CAROLINA — LINDA R. BAYLAN — REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19085.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT >excellence is our standard

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

PARTITION TYPES - GENERAL NOTES & DETAILS

A0.20

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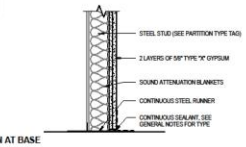
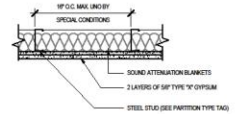
G2



SECTION AT BASE

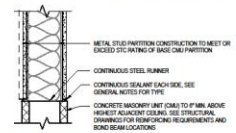


PLAN DETAIL

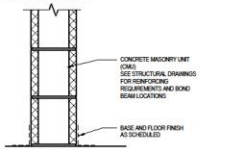
PARTITON TYPE NOTES

1. HEAD OF WALL CONDITION SIMILAR TO DETAIL 4/A0.21
2. PROVIDE ACOUSTICAL SEALANT AT ALL JOINTS AND PENETRATIONS

C.1 CONTRACTOR OPTION FOR NON LOADBEARING PARTITIONS



SECTION AT UPPER PORTION OF WALL

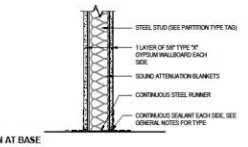


SECTION AT BASE

PARTITON TYPE NOTES

1. "CORE MEMBER SIZE" NOTED AT PARTITION TAG ON FLOOR PLAN IS MEMBER SIZE FOR CMU.
2. SEE PARTITION TYPE "C" FOR PLAN DETAILS AT CMU PORTION OF WALL.
3. SEE PARTITION TYPE "M1" FOR PLAN DETAILS AT METAL STUD PORTION OF WALL.
4. CMU PORTION OF WALL TO EXTEND TO ONE CMU COURSE ABOVE HIGHEST ADJACENT CEILING.
5. TYPICAL METAL STUD AND GYPSUM WALLBOARD SHALL EXTEND TO UNDERSIDE OF STRUCTURE. SEE HEAD DETAILS FOR STANDARD WAYS IN WHICH METAL STUD WALLS SHALL BE TERMINATED AT UNDERSIDE OF DECK OF ACOUSTICAL AND FIRE RATED APPLICATIONS.

M1



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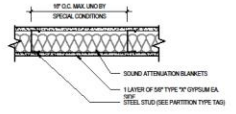
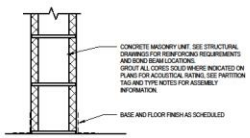


PLAN DETAIL

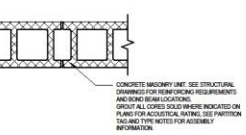
PARTITON TYPE NOTES

1. FOR TYPICAL FIRE RATED HEAD OF WALL CONDITION, SEE DETAIL 5 ON A0.21. FIRE RATED WALLS MUST SEAL TO THE UNDERSIDE OF DUCK, WHERE FIRE RATED BARRIERS PARALLEL TO BEAMS OR JOISTS AND IT IS DIFFICULT OR IMPOSSIBLE TO TERMINATE THE WALL AGAINST THE DECK WITH FIRE SEALANT AT BOTH SIDES OF THE WALL, USE DETAIL 11 ON A0.21.
2. SEE HEAD OF WALL CONDITIONS 6 ON A0.21 FOR NON-RATED TYPE "M1" PARTITIONS THAT EXTEND TO DECK.
3. FOR WALLS THAT DO NOT EXTEND TO DECK PER SPECIAL CONDITIONS "M", SEE HEAD OF WALL CONDITION 1 ON A0.21.

C



SECTION AT BASE

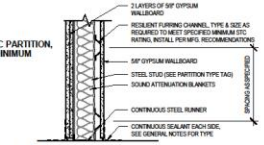


PLAN DETAIL

PARTITON TYPE NOTES

1. FOR TYPICAL HEAD OF WALL CONDITION SEE HEAD DETAIL 1 ON A0.21. CMU TO EXTEND TO UNDERSIDE OF DECK TYP. UNO.
2. SEE PARTITION TYPE "C" FOR CONTRACTOR OPTION ABOVE CEILINGS AT NON-LOAD BEARING CMU PARTITIONS.
3. FOR PARTIAL HEIGHT CMU WALLS, SEE HEAD OF WALL DETAIL 3 ON A0.21.
4. FOR CMU WALLS AT PLUMBING CHASE, SEE HEAD OF WALL DETAIL 2 ON A0.21.
5. K DESIGNATION AT PARTITION TYPE TAG INDICATES MINIMUM STC 55 ACOUSTIC PARTITION. GROUT ALL CORES SOLID AND SEAL ALL JOINTS AND PENETRATIONS AS REQUIRED TO MAINTAIN SPECIFIED ACOUSTIC RATING.

N2



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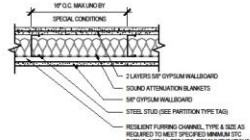
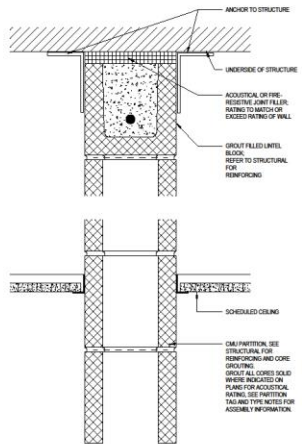


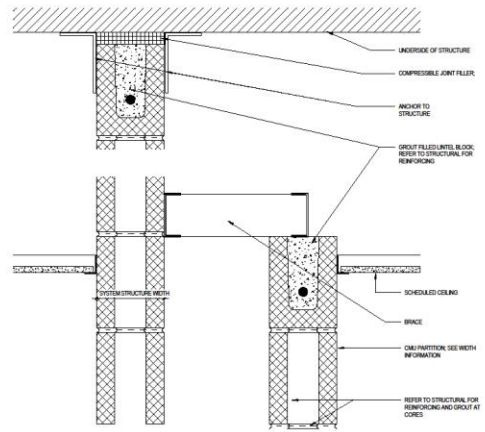
PLAN DETAIL

PARTITON TYPE NOTES

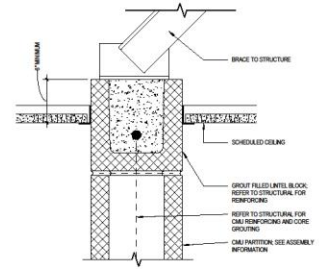
1. SEAL ALL JOINTS AND PENETRATIONS AND INSTALL ACOUSTICAL BACKER PADS BEHIND JUNCTION BOXES TO MAINTAIN SPECIFIED MINIMUM STC RATING AND PER MANUFACTURER'S RECOMMENDATIONS



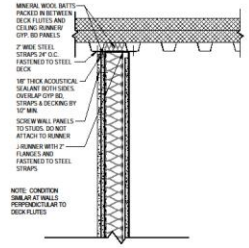
1 CMU HEAD OF WALL DETAIL, TYP. UNO.
3" = 1'-0"



2 CMU HEAD OF WALL DETAIL AT PLUMBING CHASE
3" = 1'-0"



3 CMU HEAD DETAIL AT PARTITIONS TO 6" ABOVE CEILING
3" = 1'-0"



4 HEAD AT ACOUSTIC PARTITION
1 1/2" = 1'-0"

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7/30/2020 1:37:04 PM

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BROWNSTONE GROUP
4285 FABER PLACE DRIVE, SUITE 300
NORTH CHARLESTON, SOUTH CAROLINA 29405

STEVENS & WILKINSON OF SOUTH CAROLINA INC. COLUMBIA SC 27915 REGISTERED ARCHITECTURAL CORPORATE SEAL

STATE OF SOUTH CAROLINA LINDA R. SHAFFER 10,580 REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 16955.00
■ DATE: 07.30.2020

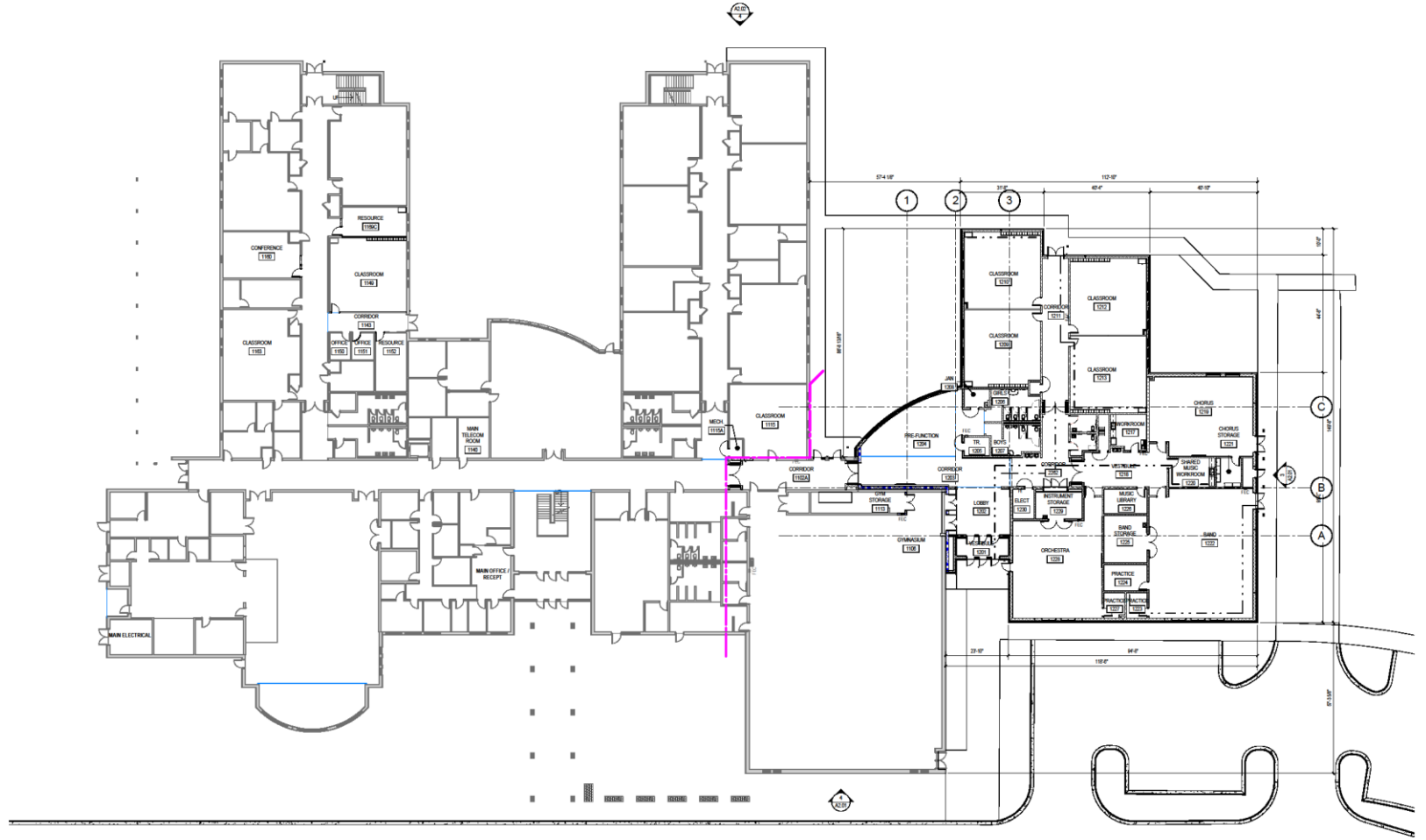
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

PARTITION TYPES AND HEAD DETAILS

A0.21



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BROWNSTONE

BROWNSTONE GROUP
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STATE OF SOUTH CAROLINA
STEVENS & WILKINSON SC SOUTH CAROLINA INC.
COLUMBIA
REGISTERED ARCHITECTURAL CORPORATION

CORPORATE SEAL

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19005.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 OVERALL PLAN

A1.01

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7/30/2020 1:37:20 PM

1 LEVEL 1 AREA 1 FLOOR PLAN
1/8" = 1'-0"

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STEVENS & WILKINSON OF SOUTH CAROLINA, INC.
COLUMBIA
CORPORATE SEAL

STATE OF SOUTH CAROLINA
LINDA R. DURHAM
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19065.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 1 PLAN

A1.11

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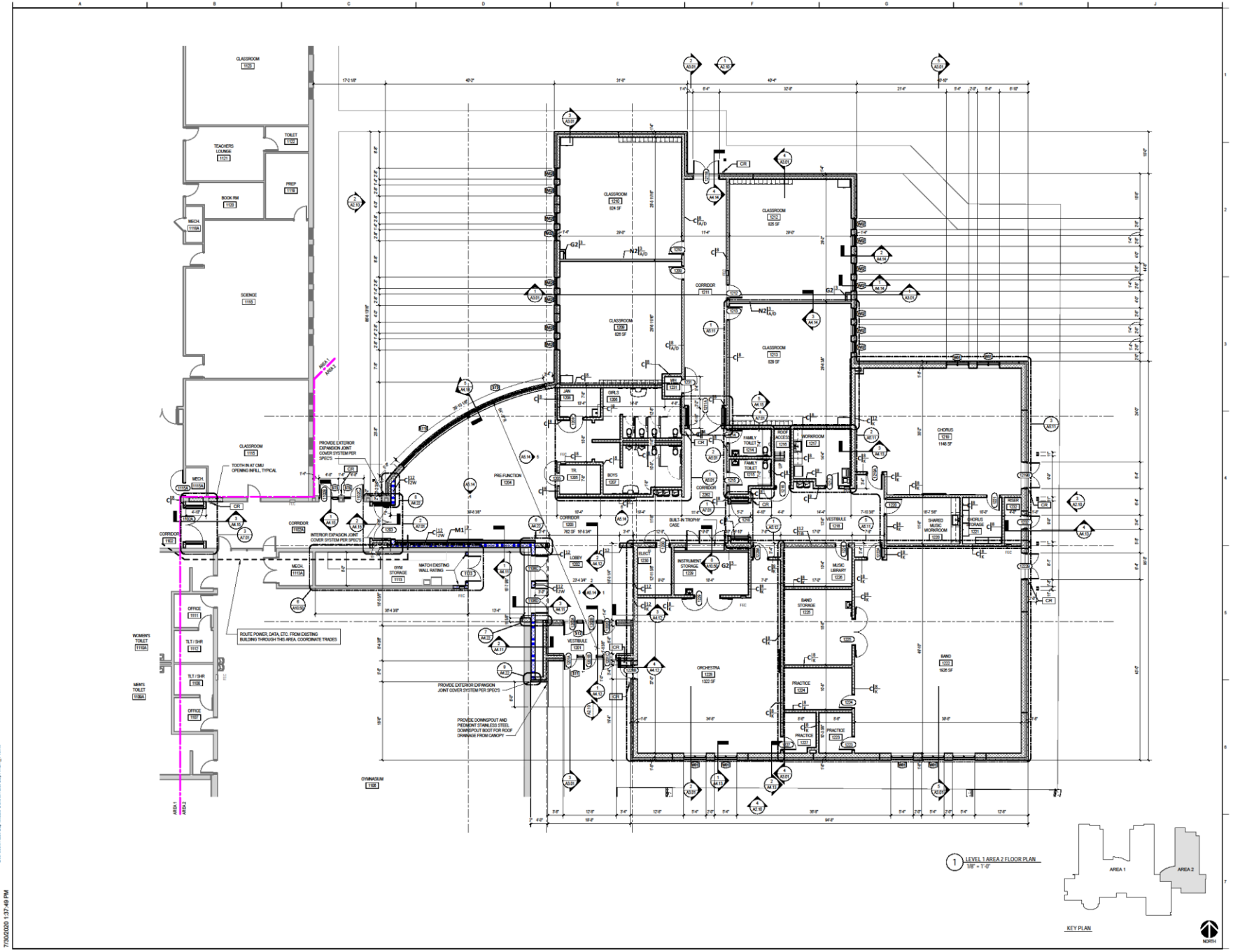

1 LEVEL 1 AREA 2 FLOOR PLAN
1/8" = 1'-0"

KEY PLAN

NORTH

BIM 360://Haut Gap Middle School/Haut Gap_ARCH_V18.rvt
7/30/2020 1:37:49 PM

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SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

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PROJECT NUMBER: 19055.00
DATE: 07.30.2020

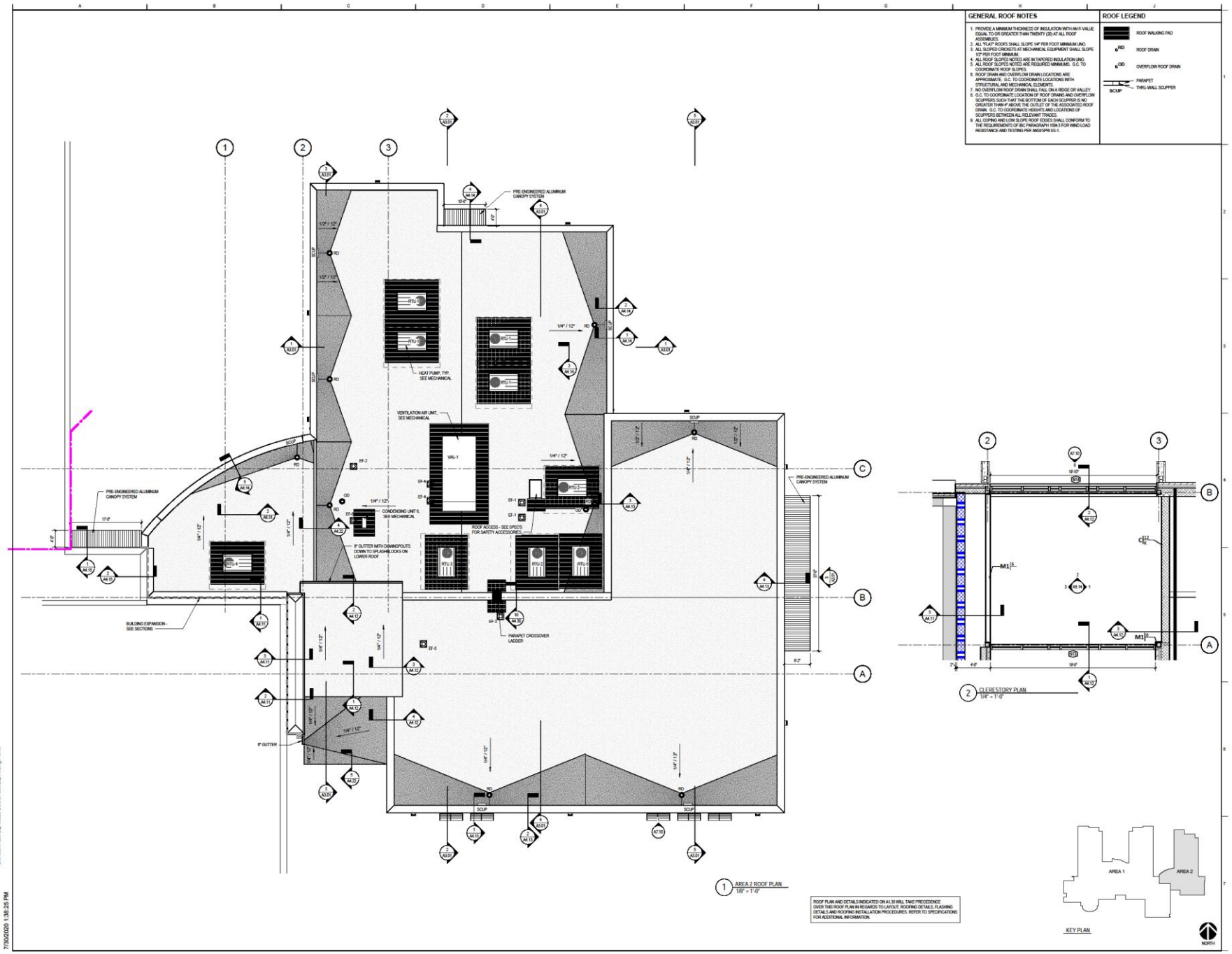
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 2 PLAN

A1.12



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BROWNSTONE GROUP
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ARCHITECT/ENGINEER SEAL

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ROOF PLAN - AREA 2
CLERESTORY PLAN

A1.32

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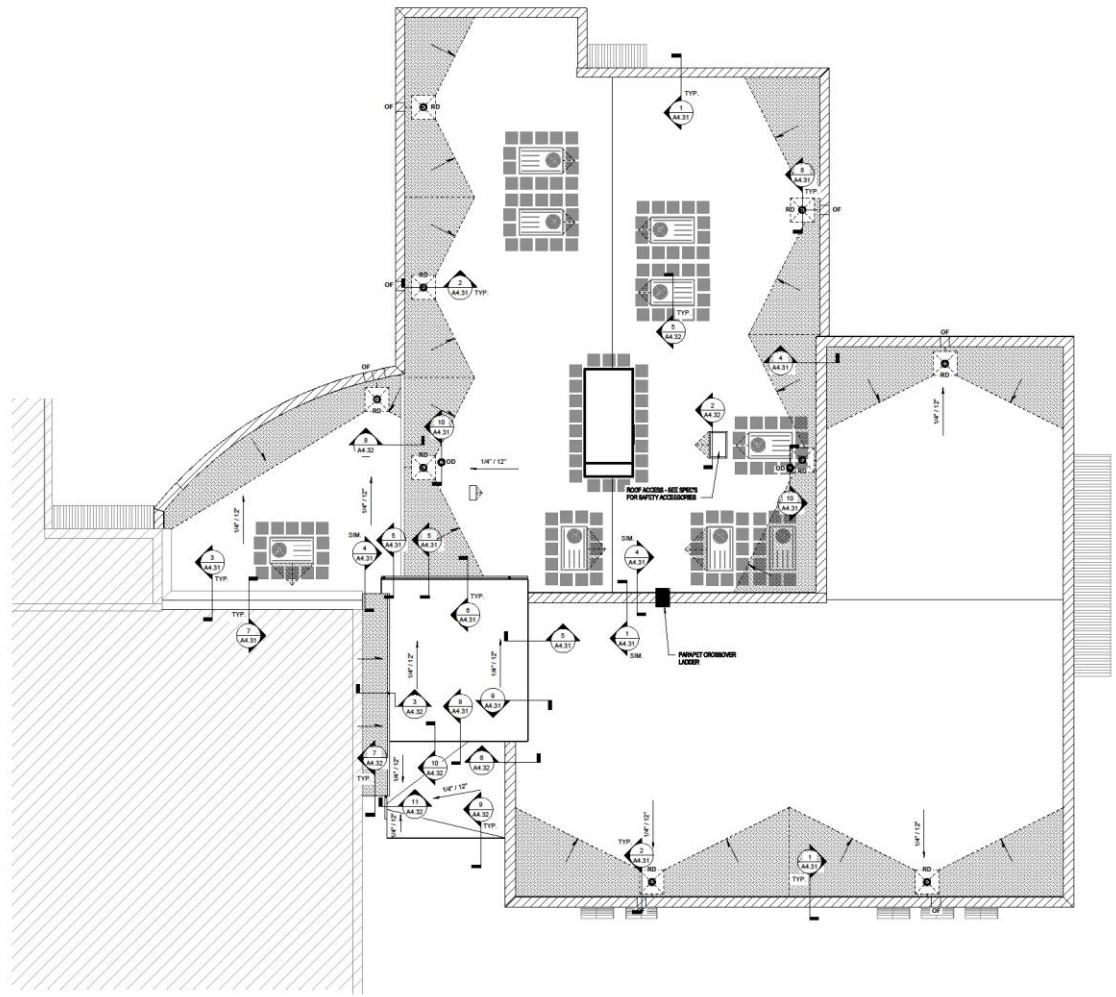


1 ROOF SYSTEM PLAN - AREA 2
1/8" = 1'-0"

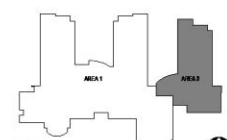
GENERAL SHEET NOTES

1. PROVIDE A MINIMUM THICKNESS OF INSULATION WITH AN R-VALUE EQUAL TO OR GREATER THAN TWENTY (20) AT ALL ROOF ASSEMBLIES.
2. ALL "FLAT" ROOFS SHALL SLOPE 1/4" PER FOOT MINIMUM UNO.
3. ALL SLOPED CRICKETS AT MECHANICAL EQUIPMENT SHALL SLOPE 1/2" PER FOOT MINIMUM. PROVIDE CRICKETS BEHIND CURB. SLOPE OF NEW CRICKETS SHALL BE TWO TIMES GREATER THAN THE SLOPE OF THE FIELD OF ROOF.
4. ALL ROOF SLOPES NOTED ARE IN TAPERED INSULATION UNO.
5. ALL ROOF SLOPES NOTED ARE REQUIRED MINIMUMS. G.C. TO COORDINATE ROOF SLOPES.
6. ROOF DRAIN AND OVERFLOW DRAIN LOCATIONS ARE APPROXIMATE. G.C. TO COORDINATE LOCATIONS WITH STRUCTURAL AND MECHANICAL ELEMENTS.
7. NO OVERFLOW ROOF DRAIN SHALL FALL ON A RIDGE OR VALLEY. G.C. TO COORDINATE LOCATION OF ROOF DRAINS AND OVERFLOW SCUPPERS SUCH THAT HE BOTTOM OF EACH SCUPPER IS NO GREATER THAN 4" ABOVE T THE OUTLET OF THE ASSOCIATED ROOF DRAIN. G.C. TO COORDINATE HEIGHTS AND LOCATIONS OF SCUPPERS BETWEEN ALL RELATIVE TRADES.
8. ALL COPING AND LOW SLOPE ROOF EDGE SHALL CONFORM TO THE REQUIREMENTS OF IBC PARAGRAPH 1504.5 FOR WIND LOAD RESISTANCE AND TESTING PER ANSI/ SPRI ES-1.

SHEET KEY NOTES

LEGEND

- PARAPET
- OVERFLOW SCUPPER (OF)
- ROOF EDGE WITH GUTTER AND DOWNSPOUT
- ROOF DRAIN IN SUMP (RD)
- OVERFLOW DRAIN (OD)
- TAPERED INSULATION
- TAPERED SLOPE DIRECTION
- WALKPAD
- TYP. TYPICAL
- SIM. SIMILAR



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4295 FACE PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

RBI ENGINEERS INC. No. C01908
CORPORATE SEAL

No. 37623
ARCHITECT REGISTRATION SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
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PROJECT NUMBER: 19350.00
DATE: 07.30.20

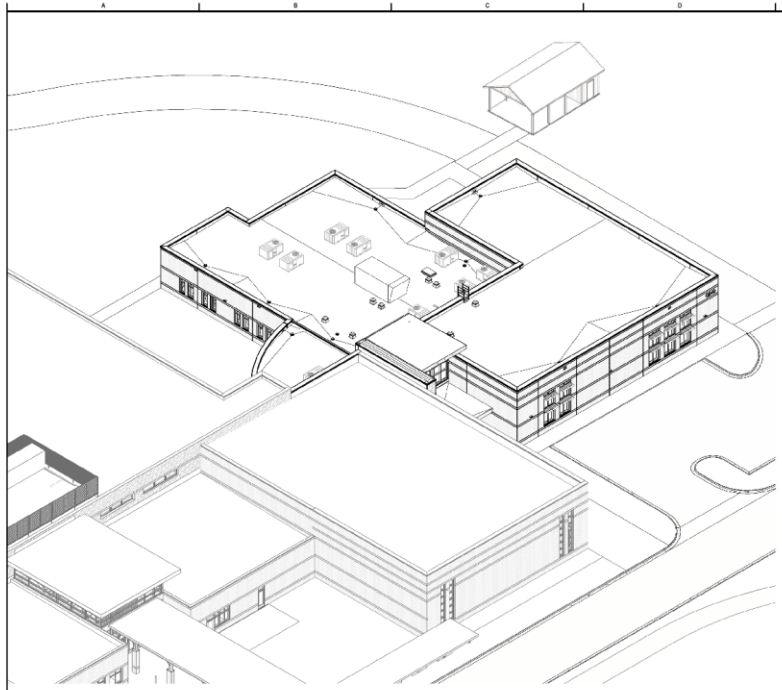
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

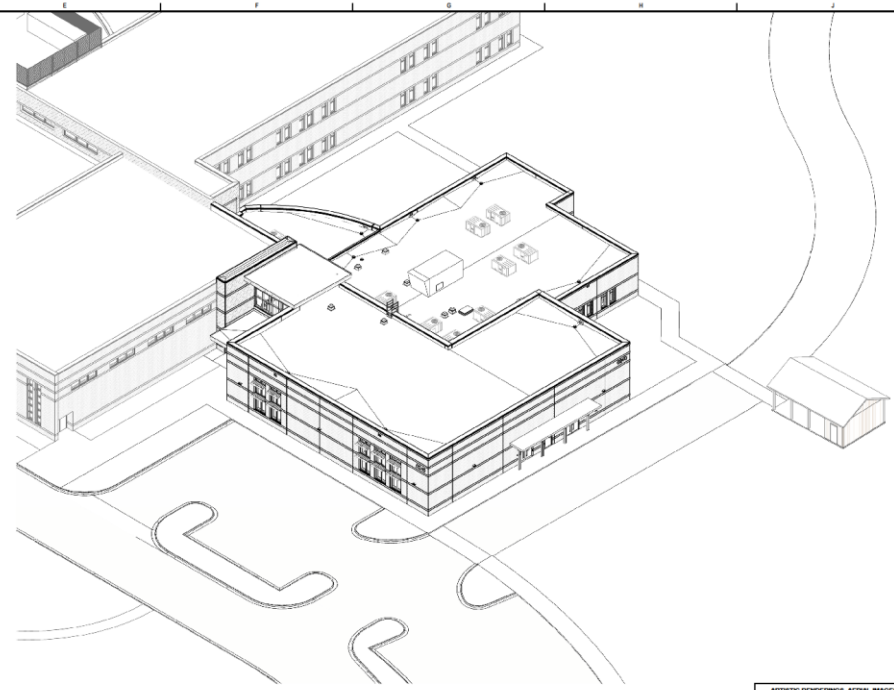
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ROOF SYSTEM PLAN - AREA 2

A1.33



1 BUILDING AXON - SOUTHWEST CORNER



2 BUILDING AXON - SOUTHEAST CORNER

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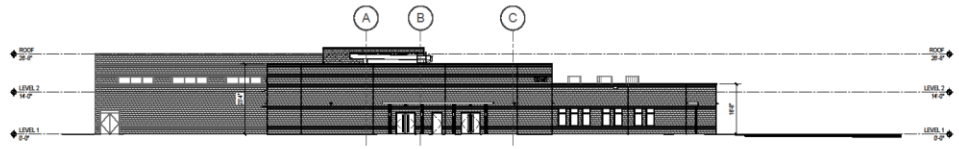
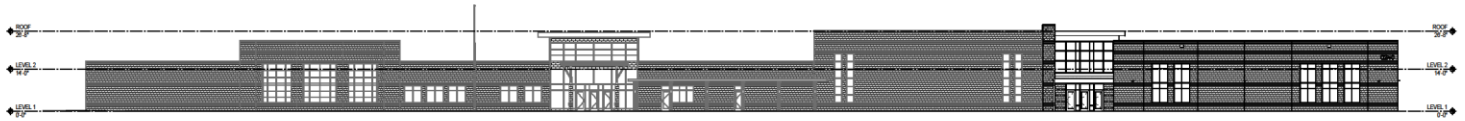


3 OVERALL EAST BUILDING ELEVATION
1/16" = 1'-0"



4 OVERALL SOUTH BUILDING ELEVATION
1/16" = 1'-0"

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STEVENS & WILKINSON OF SOUTH CAROLINA INC.
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STATE OF SOUTH CAROLINA
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■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

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■ PROJECT NUMBER: 19005.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

BUILDING AXONS & OVERALL ELEVATIONS

A2.01

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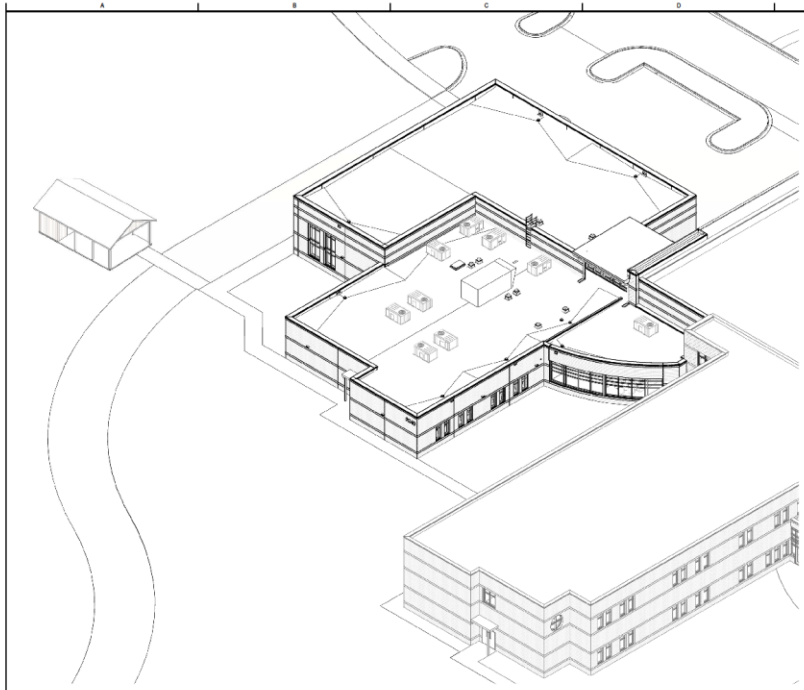
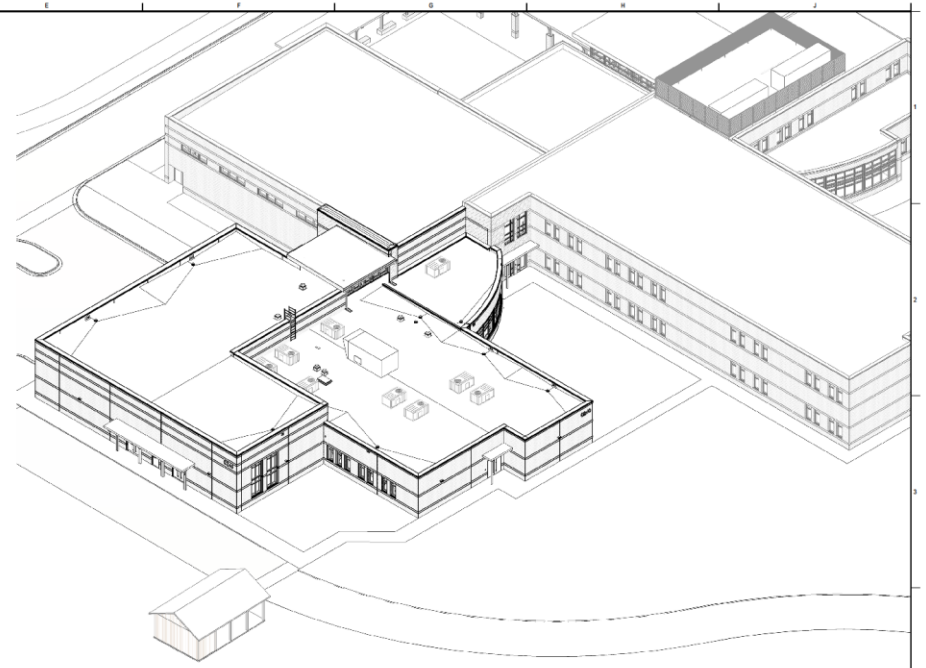


1 BUILDING AXON - NORTHWEST CORNER



2 BUILDING AXON - NORTHEAST CORNER

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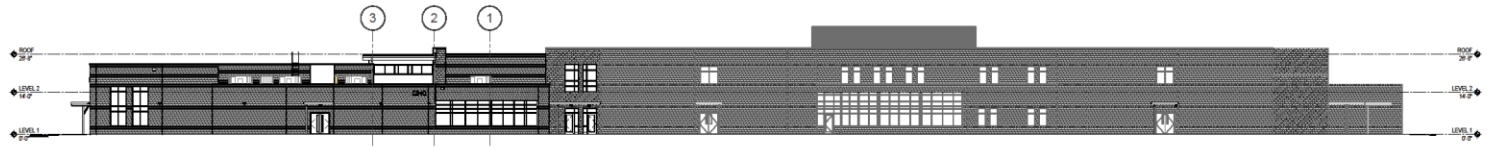

4 OVERALL NORTH BUILDING ELEVATION
1/16" = 1'-0"

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■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

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■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

BUILDING AXONS & OVERALL ELEVATIONS

A2.02

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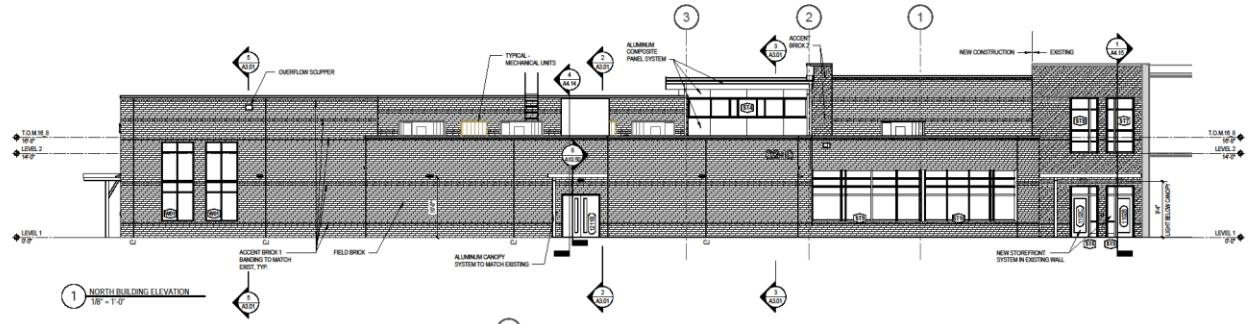
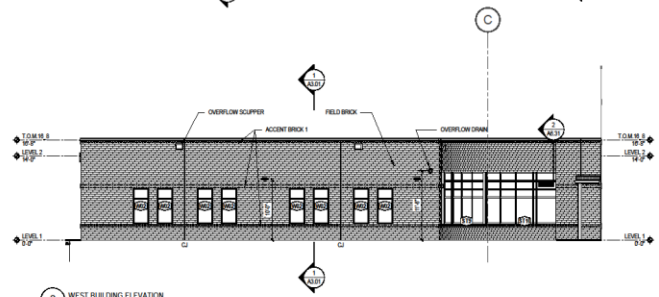
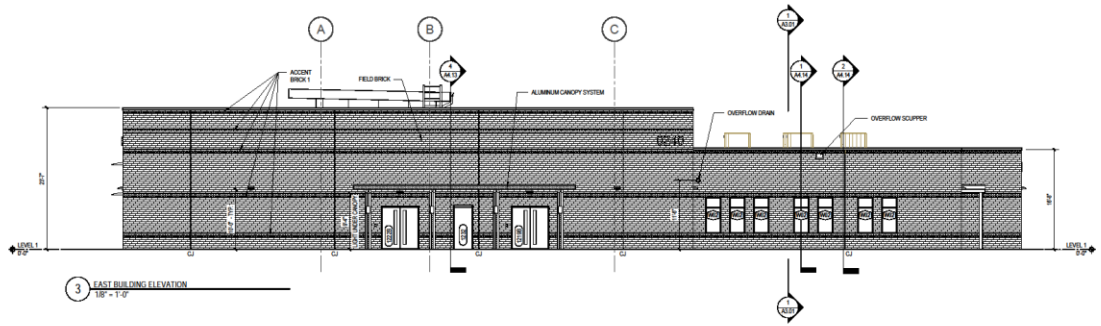


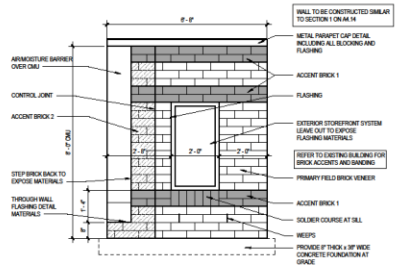
1 NORTH BUILDING ELEVATION
1/8" = 1'-0"



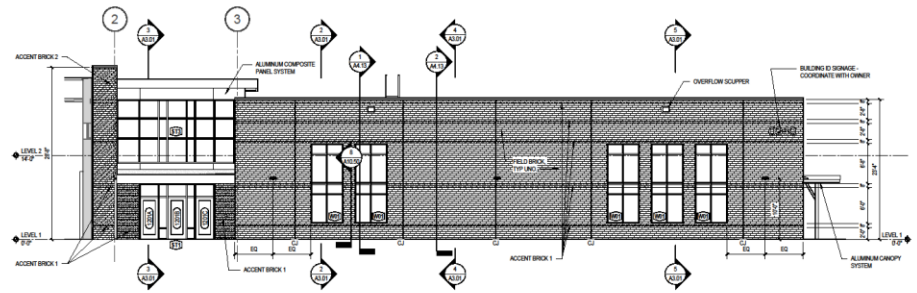
2 WEST BUILDING ELEVATION
1/8" = 1'-0"



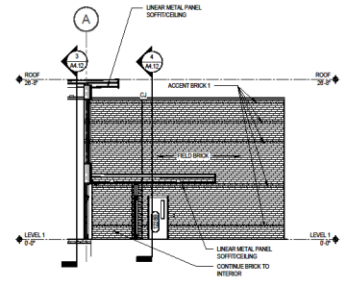
3 EAST BUILDING ELEVATION
1/8" = 1'-0"



6 MOCK-UP PANEL
1/2" = 1'-0"



4 SOUTH BUILDING ELEVATION
1/8" = 1'-0"



5 WEST BUILDING ELEVATION
1/8" = 1'-0"

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DATE: 07.30.2020

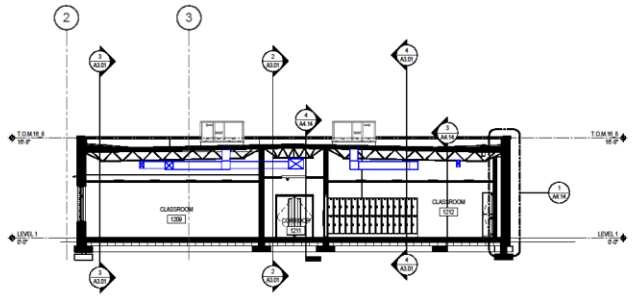
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

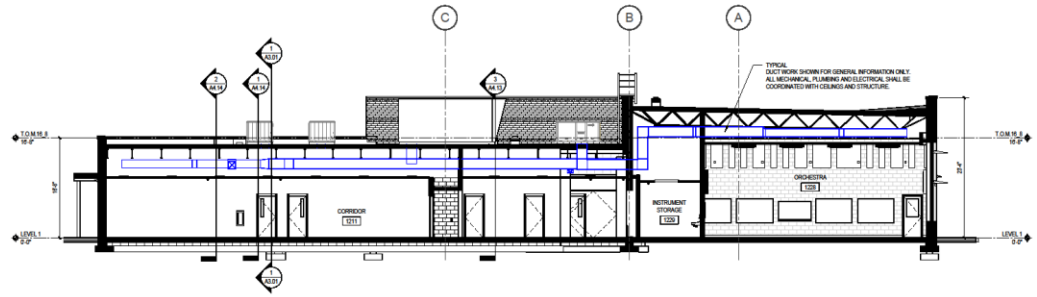
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

EXTERIOR BUILDING ELEVATIONS

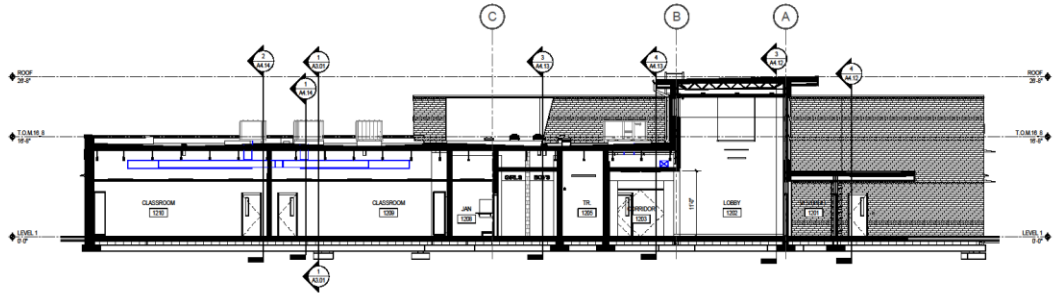
A2.10



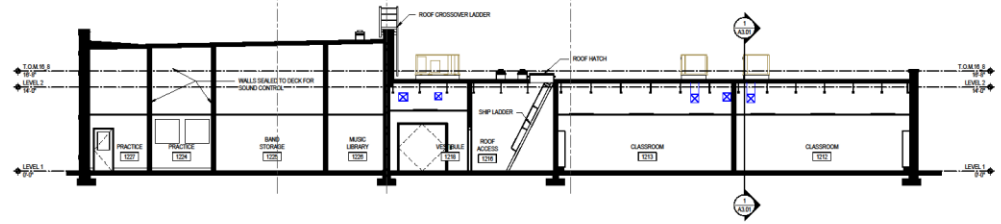
1 EAST WEST BUILDING SECTION THROUGH CLASSROOMS
1/8" = 1'-0"



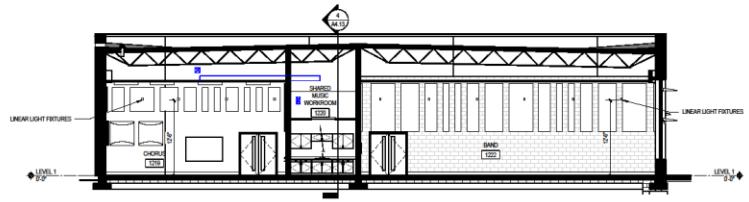
2 NORTH SOUTH BUILDING SECTION THROUGH CLASSROOM CORRIDOR & ORCHESTRA ROOM
1/8" = 1'-0"



3 NORTH SOUTH BUILDING SECTION THROUGH PRE-FUNCTION
1/8" = 1'-0"



4 NORTH SOUTH BUILDING SECTION
1/8" = 1'-0"



5 NORTH SOUTH BUILDING SECTION THROUGH BAND AND CHORUS
1/8" = 1'-0"

BIM 360://Haut Gap Middle School/Haut Gap ARCH_V18.rvt
7/30/2020 1:42:53 PM

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COLUMBIA, SC 29201
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WWW.STEVENS-WILKINSON.COM

RED IRON ARCHITECTS
RED IRON ARCHITECTS
4591 DURANT AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405

BROWNSTONE
BROWNSTONE GROUP
4085 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

STATE OF SOUTH CAROLINA
STEVENS & WILKINSON OF SOUTH CAROLINA, INC.
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CORPORATE SEAL

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

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□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19055.00
■ DATE: 07.30.2020

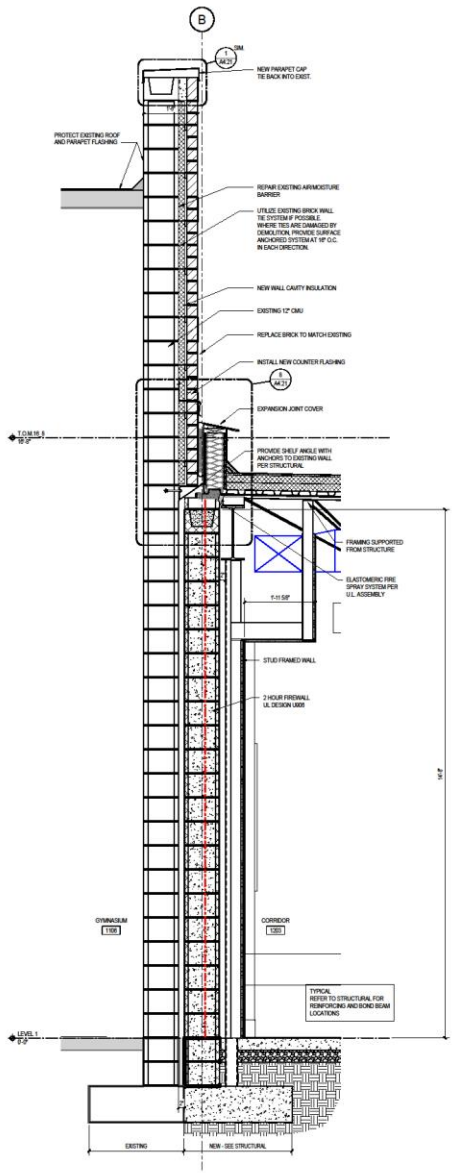
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

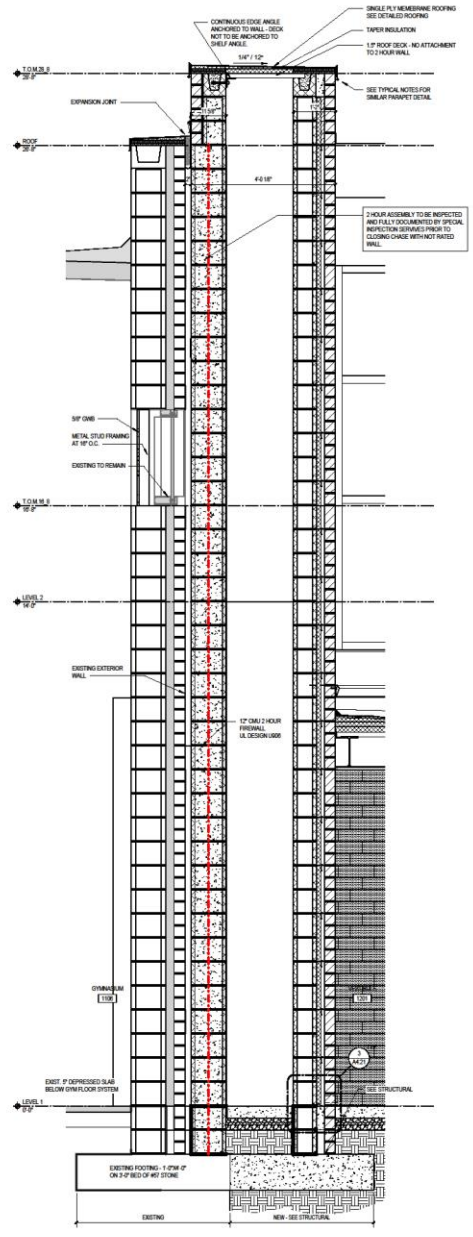
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

BUILDING SECTIONS

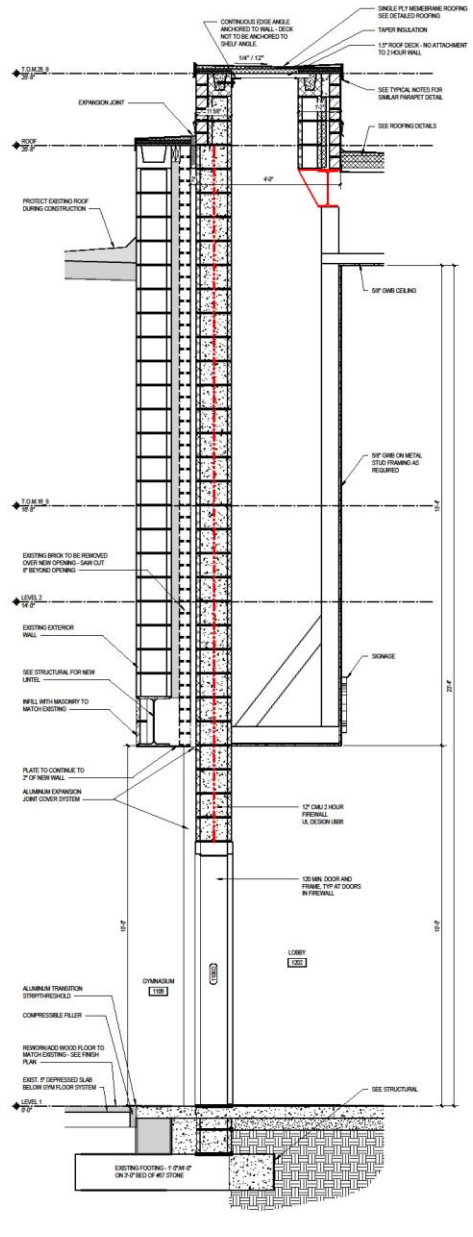
A3.01



1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

B:\M\ 360 /Haut Gap Middle School\Haut Gap ARCH_V19.rvt
7/30/2020 1:47:25 PM

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BROWNSTONE GROUP
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NORTH CHARLESTON, SOUTH CAROLINA 29405

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STEVENS & WILKINSON OF SOUTH CAROLINA INC.
COLUMBIA
REGISTERED ARCHITECTURAL
CORPORATE SEAL

STATE OF SOUTH CAROLINA
LINDA R. SHOEMAKER
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 16005.00
■ DATE: 07.30.2020

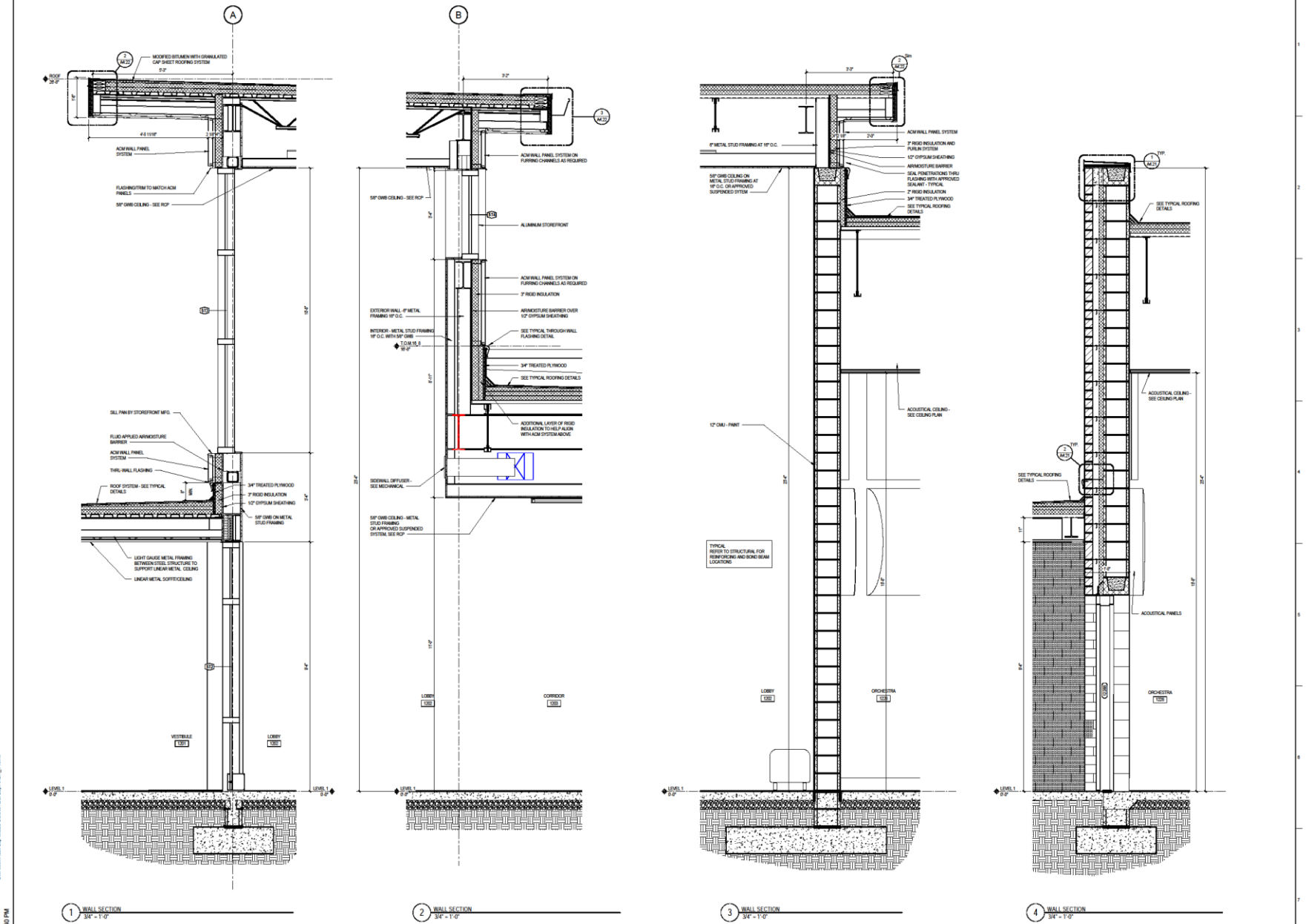
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

WALL SECTIONS

A4.11



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BROWNSTONE GROUP
4055 FABER PLACE DRIVE, SUITE 202
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STATE OF SOUTH CAROLINA — STEVENS & WILKINSON OF SOUTH CAROLINA, INC. — COLUMBIA — REGISTERED ARCHITECTURAL CORPORATION

CORPORATE SEAL

STATE OF SOUTH CAROLINA — LINDA R. SHUMAN — REGISTERED ARCHITECT

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

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■ DATE: 07.30.2020

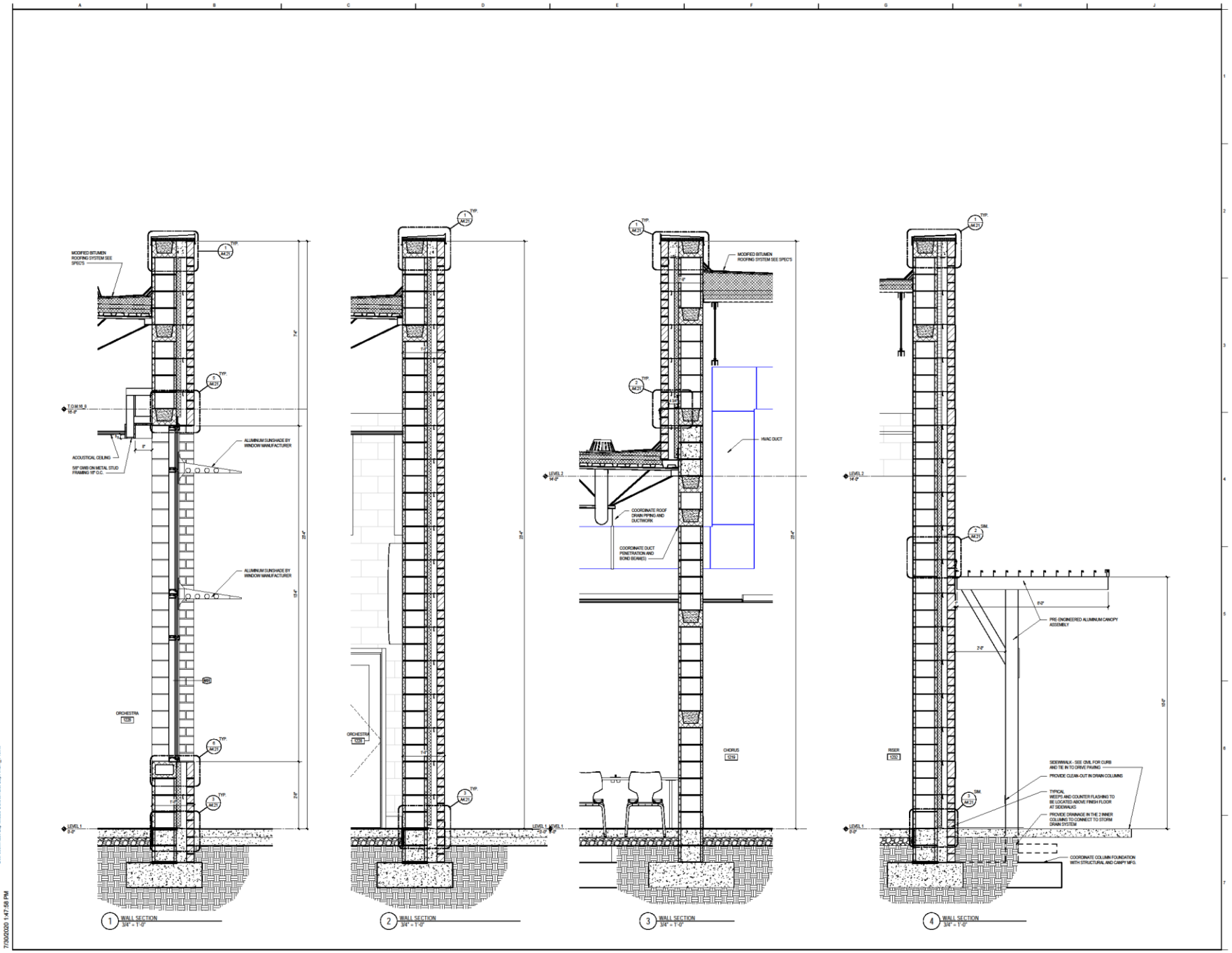
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

WALL SECTIONS

A4.12



BIM 360://Haut Gap Middle School/Haut Gap_ARCH_V18.rvt

7/30/2020 1:47:58 PM

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BROWNSTONE GROUP
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CORPORATE SEAL

STATE OF SOUTH CAROLINA LINDA R. SHAFFER 25822 REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

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■ PROJECT NUMBER: 19005.00
■ DATE: 07.30.2020

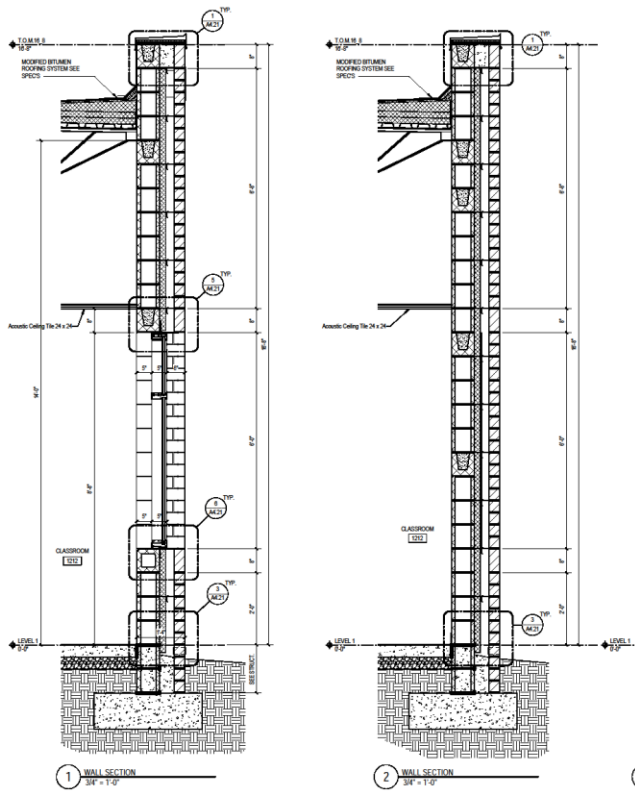
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

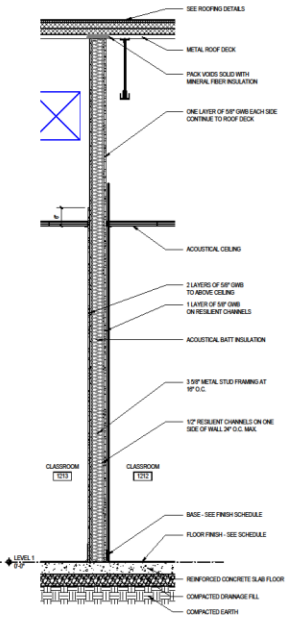
WALL SECTIONS

A4.13

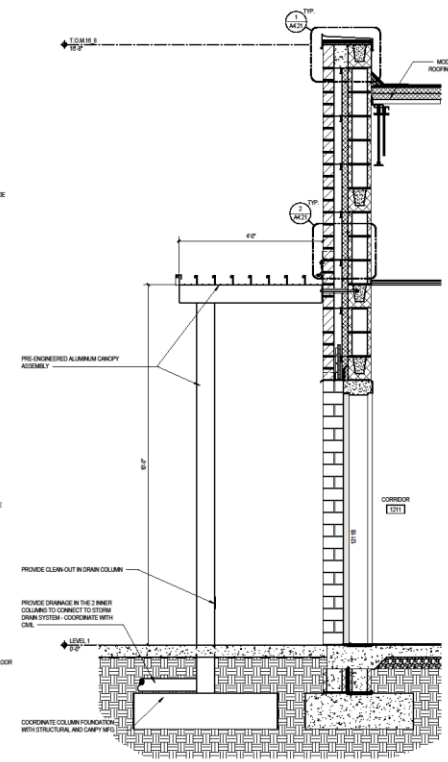


1 WALL SECTION
3/4" = 1'-0"

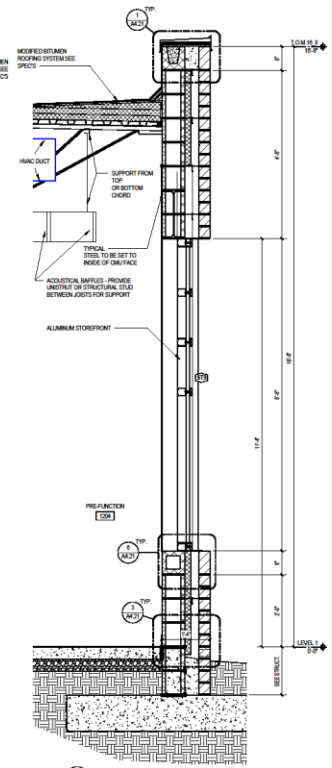
2 WALL SECTION
3/4" = 1'-0"



3 ACOUSTICAL WALL SECTION
3/4" = 1'-0"



4 WALL SECTION
3/4" = 1'-0"



5 WALL SECTION
3/4" = 1'-0"

7/30/2020 1:48:12 PM
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STEVENS & WILKINSON OF SOUTH CAROLINA, INC.
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CORPORATE SEAL

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

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■ DATE: 07.30.2020

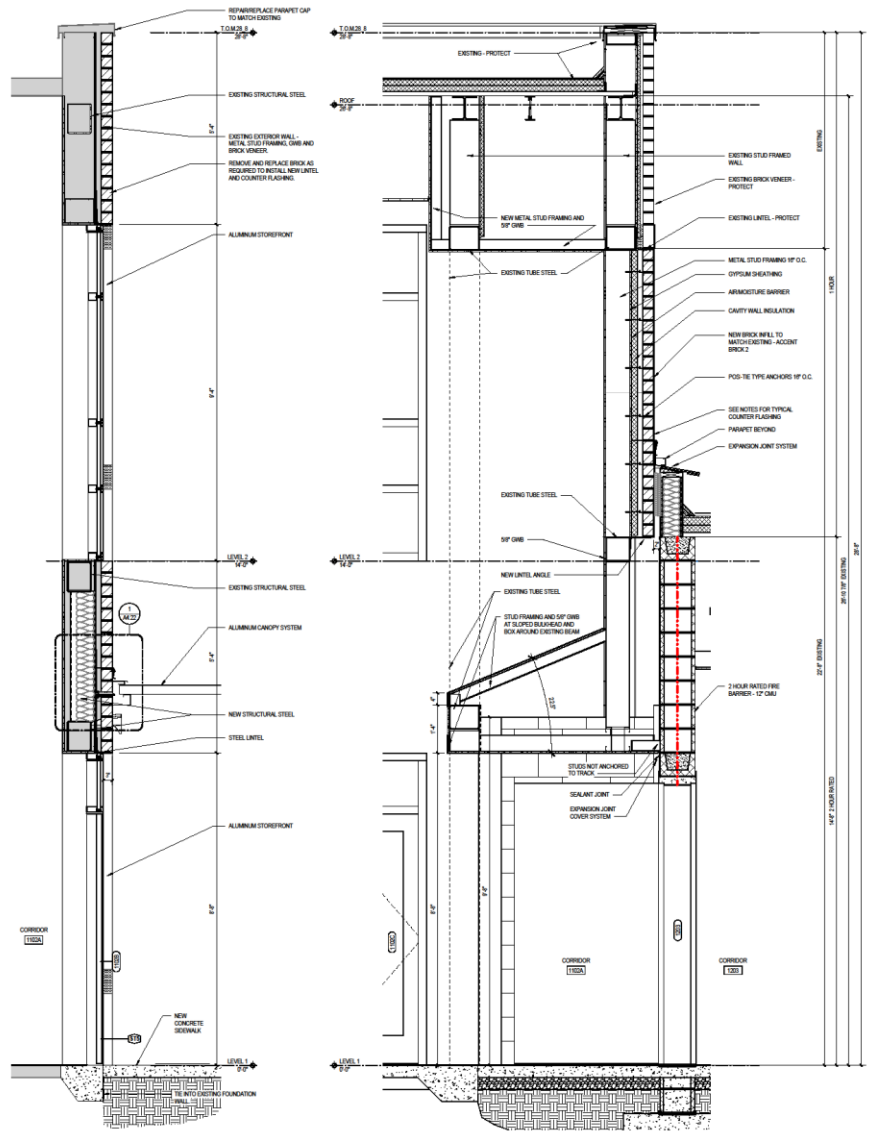
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

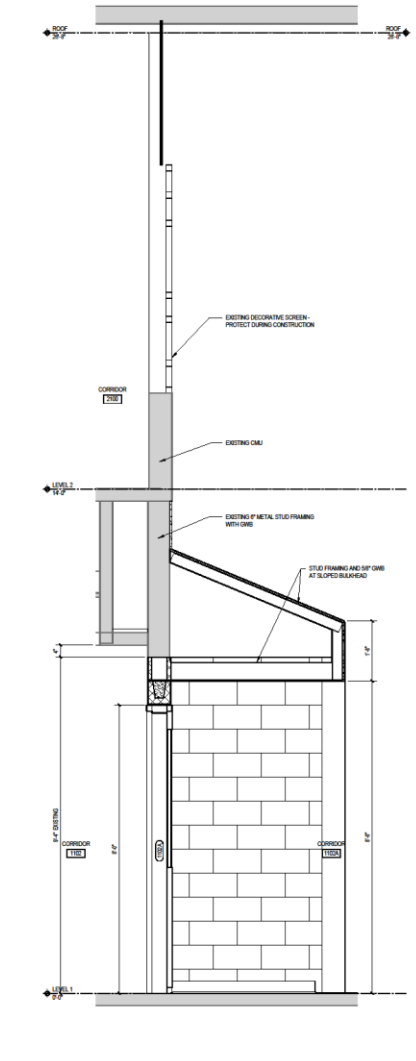
WALL SECTIONS

A4.14

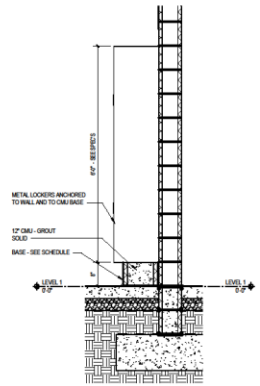


1 WALL SECTION - EXISTING
3/4" = 1'-0"

2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"



5 TYPICAL LOCKER SECTION
3/4" = 1'-0"

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STATE OF SOUTH CAROLINA
STEVENS & WILKINSON OF SOUTH CAROLINA, INC.
COLUMBIA
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CORPORATE SEAL

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

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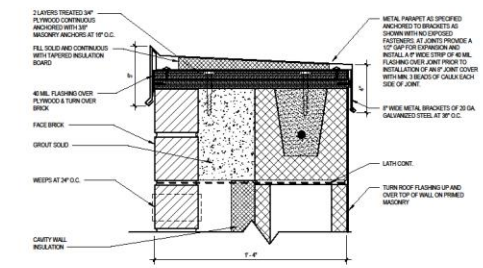
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

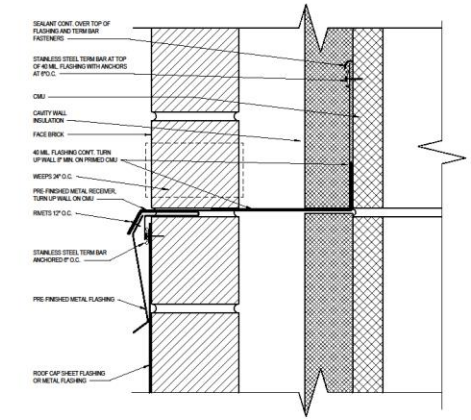
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

WALL SECTIONS

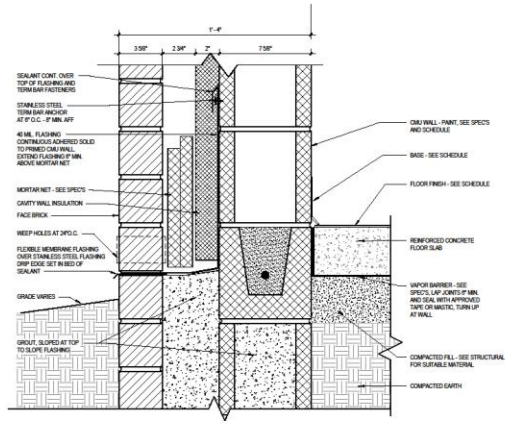
A4.15



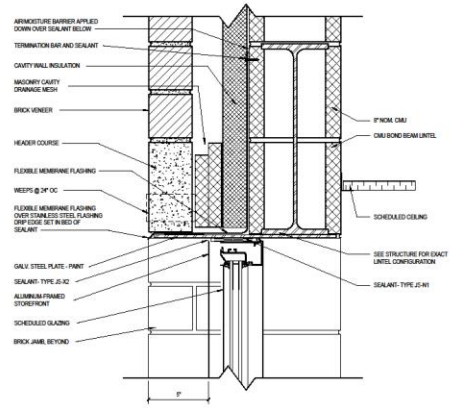
1 TYPICAL PARAPET CAP DETAIL
3" = 1'-0"



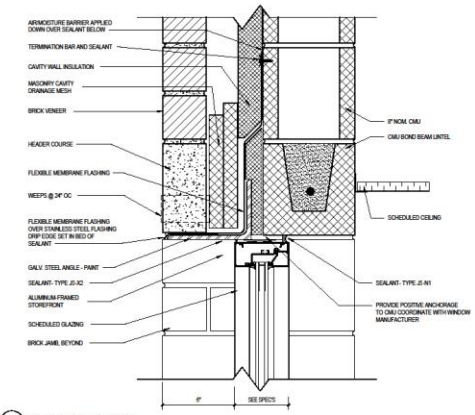
2 COUNTER FLASHING DETAIL
6" = 1'-0"



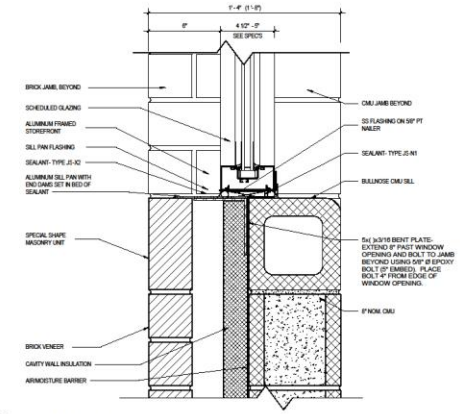
3 TERMINATION BAR DETAIL
3" = 1'-0"



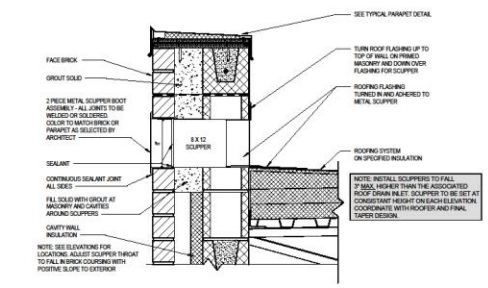
4 TYPICAL STOREFRONT HEAD DETAIL
3" = 1'-0"



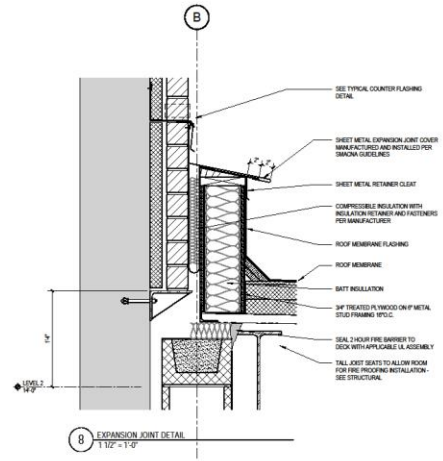
5 TYPICAL WINDOW HEAD DETAIL
3" = 1'-0"



6 TYPICAL WINDOW SILL DETAIL
3" = 1'-0"



7 TYPICAL SCUPPER DETAIL
1 1/2" = 1'-0"



8 EXPANSION JOINT DETAIL
1 1/2" = 1'-0"

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STEVENS & WILKINSON OF SOUTH CAROLINA INC.
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STATE OF SOUTH CAROLINA
LINDA R. DAVENPORT
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

WALL SECTION DETAILS

A4.21

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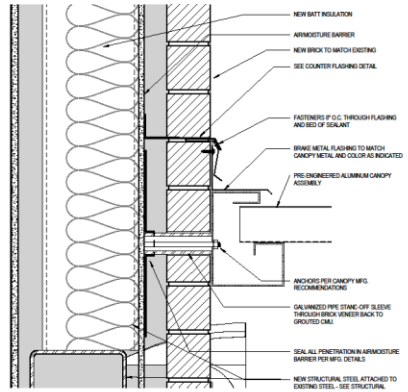
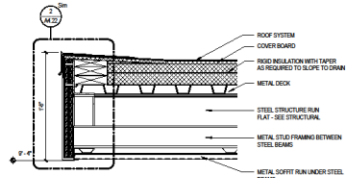
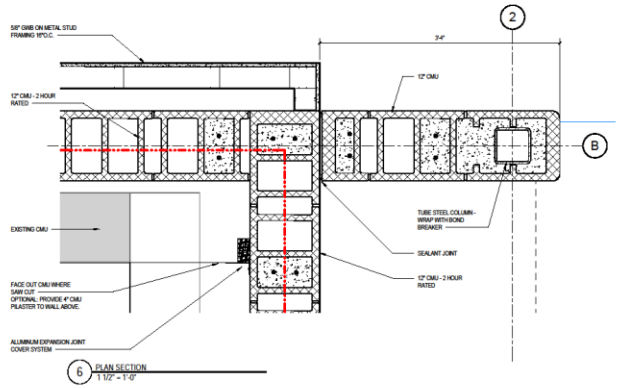


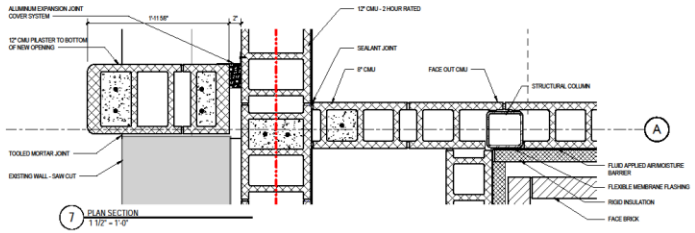
1 CANOPY DETAIL
3" = 1'-0"



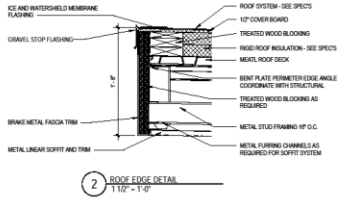
5 FASCIA DETAIL
1 1/2" = 1'-0"



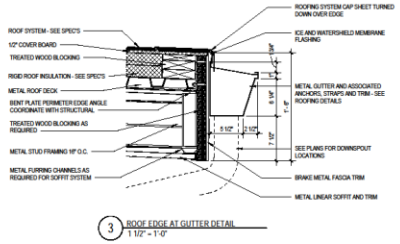
6 PLAN SECTION
1 1/2" = 1'-0"



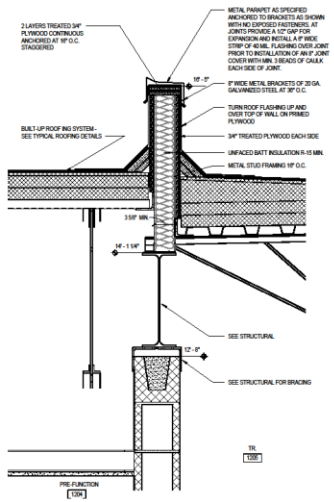
7 PLAN SECTION
1 1/2" = 1'-0"



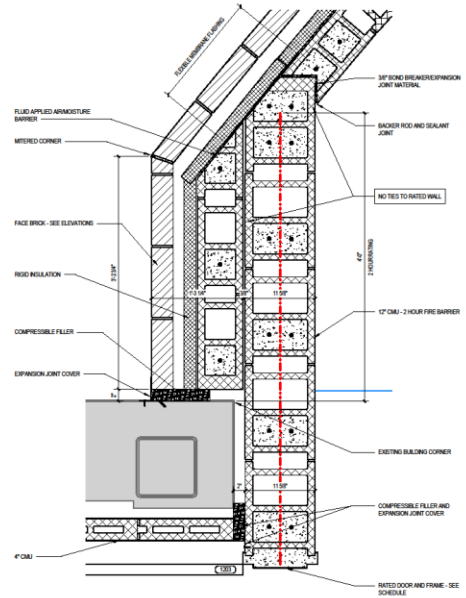
2 ROOF EDGE DETAIL
1 1/2" = 1'-0"



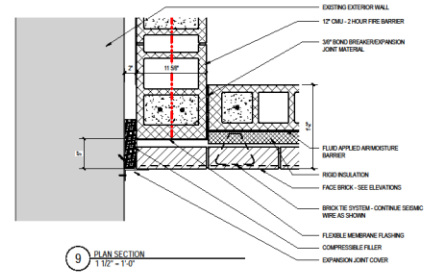
3 ROOF EDGE AT GUTTER DETAIL
1 1/2" = 1'-0"



4 WALL SECTION
1 1/2" = 1'-0"



8 PLAN SECTION
1 1/2" = 1'-0"



9 PLAN SECTION
1 1/2" = 1'-0"

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STEVENS & WILKINSON OF SOUTH CAROLINA, INC.
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STATE OF SOUTH CAROLINA
LINDA R. DURHAM
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

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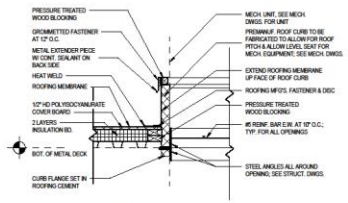
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

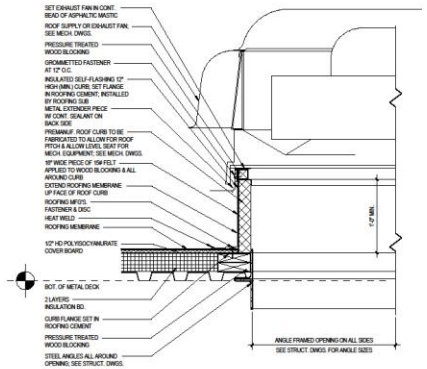
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

WALL SECTION DETAILS

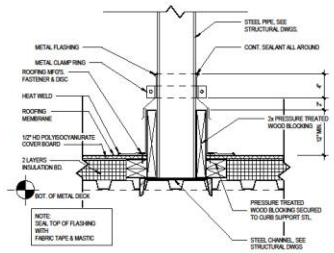
A4.22



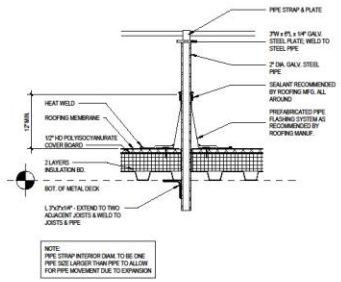
1 MECHANICAL EQUIPMENT ROOF CURB
1" = 1'-0"



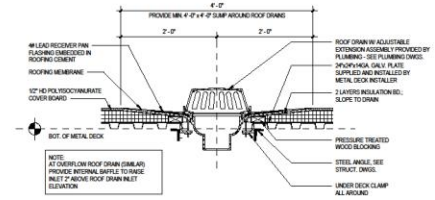
2 EXHAUST FAN DETAIL
1 1/2" = 1'-0"



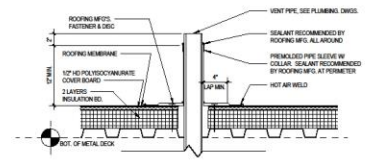
3 EQUIPMENT SUPPORT FLASHING
1 1/2" = 1'-0"



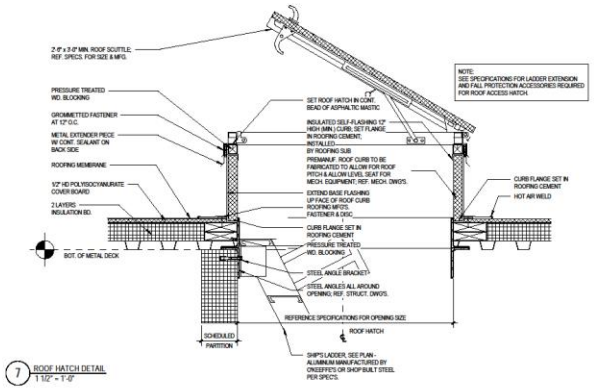
4 PIPE SUPPORT DETAIL
1 1/2" = 1'-0"



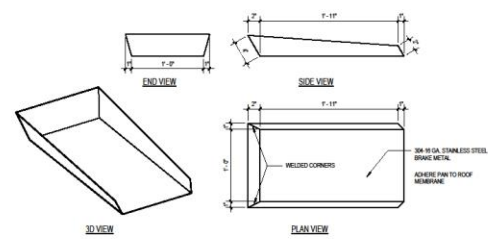
5 ROOF DRAIN DETAIL
1" = 1'-0"



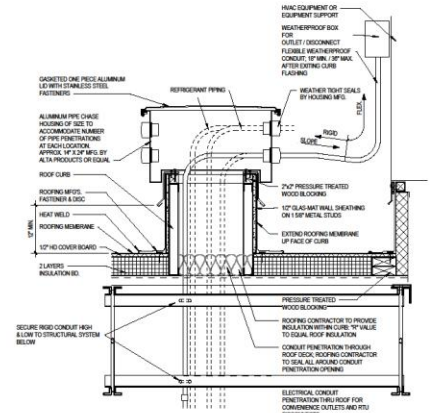
6 VENT PIPE DETAIL
1 1/2" = 1'-0"



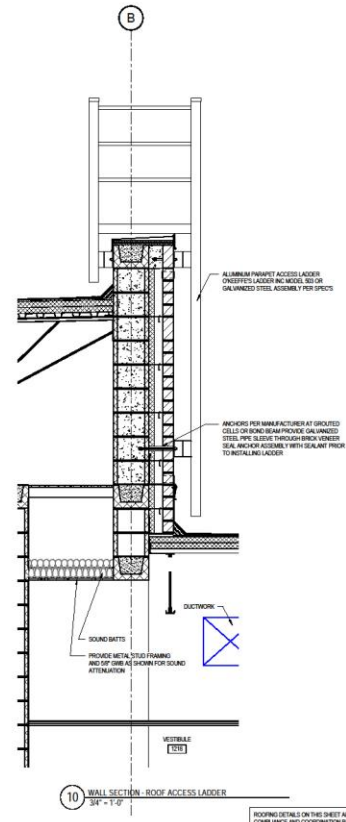
7 ROOF HATCH DETAIL
1 1/2" = 1'-0"



8 STAINLESS STEEL SPLASH BLOCK
1 1/2" = 1'-0"



9 MULTIPLE PIPE PENETRATION
1 1/2" = 1'-0"



10 WALL SECTION - ROOF ACCESS LADDER
3/4" = 1'-0"

ROOFING DETAILS ON THIS SHEET ARE SHOWN FOR GENERAL COMPLIANCE AND COORDINATION BETWEEN TRADES. ROOFING DETAILS ON SHEET A4.31 AND A4.32 WILL TAKE PRECEDENCE OVER OTHER SECTIONS AND DETAILS IN REGARDS TO ROOFING MATERIALS, FLASHINGS AND INSTALLATION PROCEDURES.

B:\M 360 /Haut Gap Middle School\Haut Gap ARCH_V19.rvt
7/30/2020 1:49:36 PM

S&W
ARCHITECTURE ENGINEERING INTERIORS
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RED IRON ARCHITECTS
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NORTH CHARLESTON, SOUTH CAROLINA 29405

BROWNSTONE
BROWNSTONE GROUP
4285 FABER PLACE DRIVE, SUITE 302
NORTH CHARLESTON, SOUTH CAROLINA 29405

STEVENS & WILKINSON OF SOUTH CAROLINA, INC. COLUMBIA, SC 29201 REGISTERED ARCHITECTURE
CORPORATE SEAL

STATE OF SOUTH CAROLINA LINDA R. SHIPMAN REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 16955.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

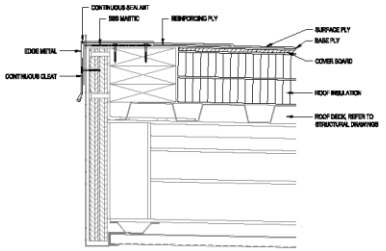
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ROOF DETAILS

A4.30

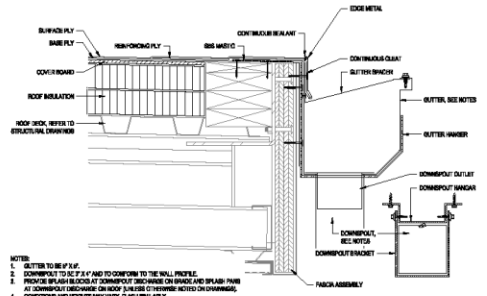
DETAIL SHEET NOTES

1. DETAILS PROVIDED TO SHOW INTENT FOR ROOFING AND FLASHING PURPOSES. FOR COMPONENTS OF WALLS AND DECKING AND OTHER SUBSTRATES, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
2. ROOFING DETAILS ON IS BEST AS 2+ AND AS 2B SHALL TAKE PRECEDENCE OVER OTHER SECTIONS AND DETAILS IN REGARDS TO ROOFING MATERIALS, FLASHINGS AND INSTALLATION PROCEDURES.
3. SLOPE IN ROOF DECK MAY NOT BE SHOWN.
4. TAPERED INSULATION MAY NOT BE SHOWN.



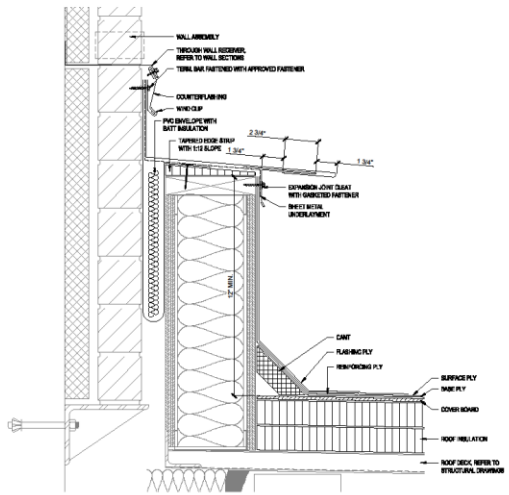
NOTES:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

9 CLERESTORY ROOF EDGE
3" = 1'-0"



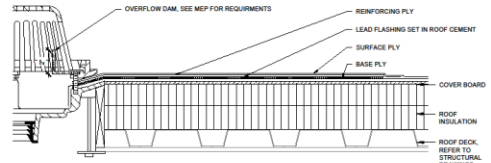
NOTES:
1. GUTTER TO BE 6" X 4".
2. DOWNSPOUT TO BE 3" X 4" AND TO CONFORM TO THE WALL PROFILE.
3. PROVIDE SPLASH BLOCKS AT DOWNSPOUT DISCHARGE ON GRADE AND SPLASH PANS AT DOWNSPOUT DISCHARGE ON ROOF (UNLESS OTHERWISE NOTED ON DRAWINGS).
4. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

6 CLERESTORY ROOF EDGE WITH GUTTER AND DOWNSPOUT
3" = 1'-0"



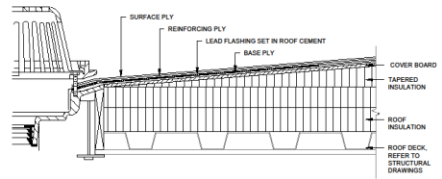
NOTES:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

3 ROOF TO WALL EXPANSION JOINT
3" = 1'-0"



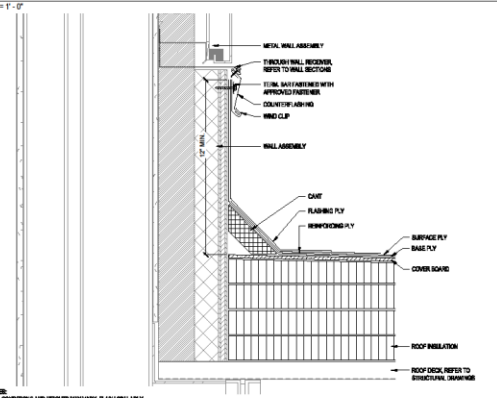
NOTES:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

10 TYPICAL OVERFLOW ROOF DRAIN
3" = 1'-0"



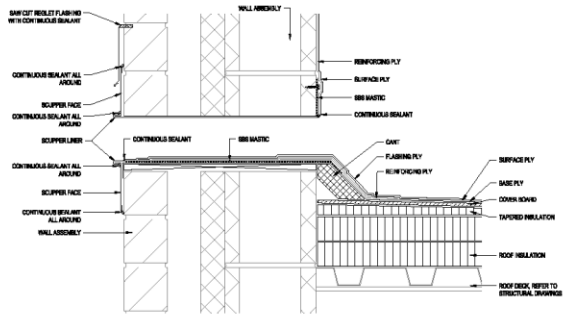
NOTES:
1. PROVIDE MINIMUM 4'-x-4' SUMP AROUND DRAIN.
2. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

8 TYPICAL ROOF DRAIN
3" = 1'-0"



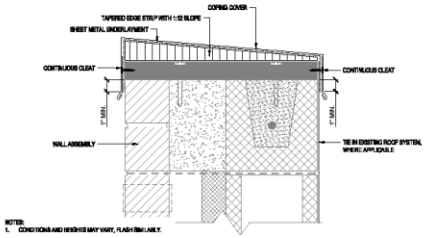
NOTES:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

5 TYPICAL BASE FLASHING AT METAL WALL PANEL
3" = 1'-0"



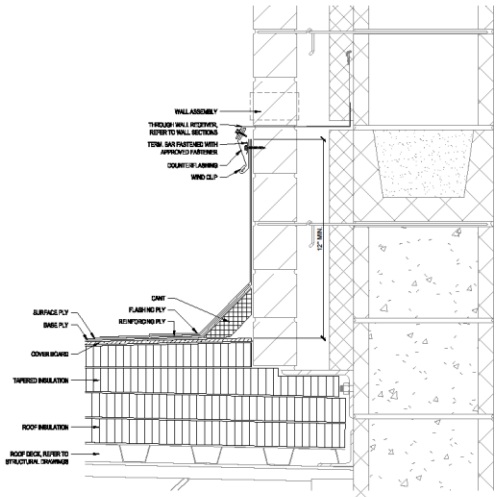
NOTES:
1. REFER TO ROOF PLUMBING PLANS FOR OVERFLOW SCUPPER SIZES.
2. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

2 TYPICAL OVERFLOW SCUPPER
3" = 1'-0"



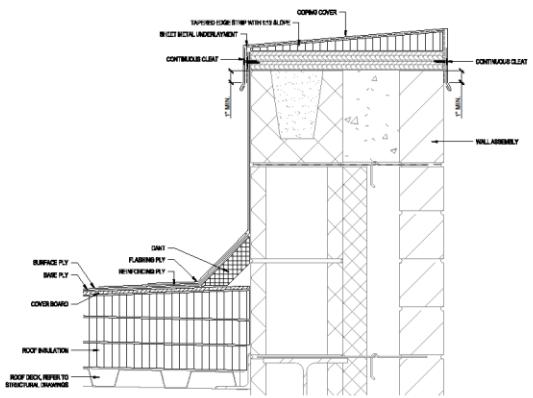
NOTES:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

7 ADDITION TO EXISTING PARAPET CAP
3" = 1'-0"



NOTES:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

4 TYPICAL BASE FLASHING AT MASONRY WALL
3" = 1'-0"



NOTES:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH SBM LARLY.

1 TYPICAL PARAPET
3" = 1'-0"

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BROWNSTONE
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RBI ENGINEERS INC. No. C01908
CERTIFICATE OF AUTHORIZATION
CORPORATE SEAL

No. 37623
REGISTERED
ARCHITECT RESPONSIBLE SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 18006.00
DATE: 07.30.20

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

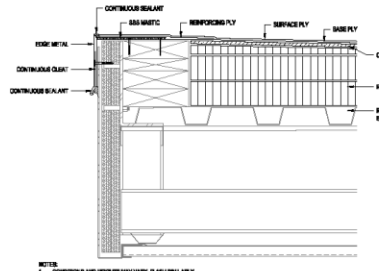
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ROOF DETAILS

A4.31

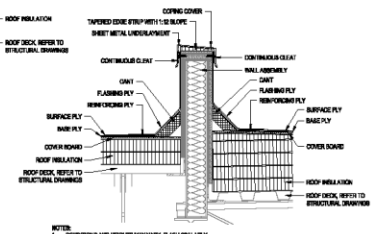
DETAIL SHEET NOTES

1. DETAILS PROVIDED TO SHOW INTENT FOR ROOFING AND FLASHING PURPOSES. FOR COMPONENTS OF WALLS AND DECKING AND OTHER BUILDING ELEMENTS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
2. ROOFING DETAILS ON IS BEST AS AN AND AS 28 WALL TAKE PRECEDENCE OVER OTHER SECTIONS AND DETAILS IN REGARDS TO ROOFING MATERIALS, FLASHINGS AND INSTALLATION PROCEDURES.
3. SLOPE IN ROOF DECK MAY NOT BE SHOWN.
4. TAPERED INSULATION MAY NOT BE SHOWN.



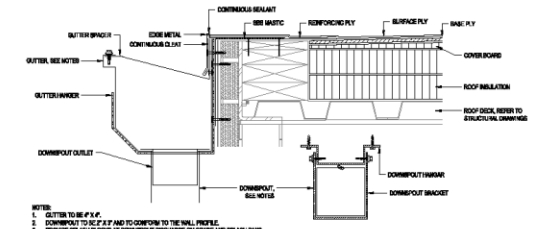
NOTES:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

9 CANOPY ROOF EDGE
3" = 1' - 0"



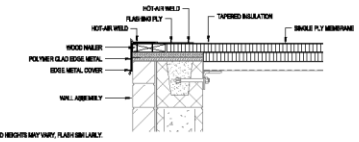
NOTE:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

8 ROOF AREA DIVIDER
1-1/2" = 1'-0"



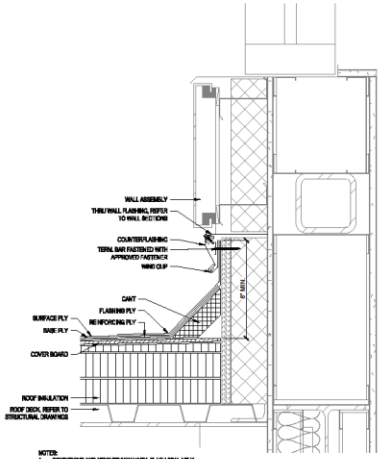
NOTES:
1. GUTTER TO BE 6" X 4".
2. DOWNSPOUT TO BE 3" X 3" AND TO CONFORM TO THE WALL PROFILE.
3. PROVIDE SPLASH BLOCKS AT DOWNSPOUT DISCHARGE ON GRADE AND SPLASH PANS AT DOWNSPOUT DISCHARGE ON ROOF (UNLESS OTHERWISE NOTED ON DRAWINGS).
4. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

11 CANOPY ROOF EDGE WITH GUTTER AND DOWNSPOUT
3" = 1' - 0"



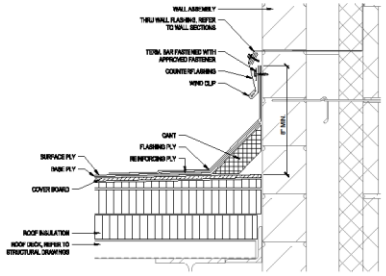
NOTE:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

7 RAKE EDGE AT HIGH ROOF
1-1/2" = 1'-0"



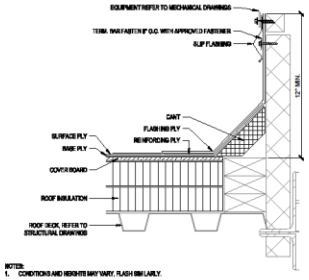
NOTE:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

10 CANOPY ROOF TO WALL AT METAL WALL PANEL
3" = 1' - 0"



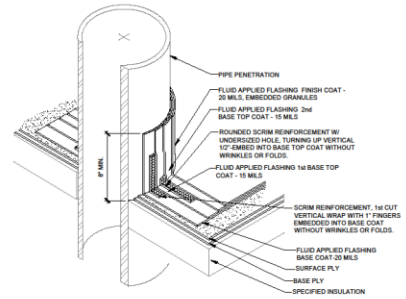
NOTE:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

6 CANOPY ROOF TO WALL AT MASONRY WALL
3" = 1' - 0"



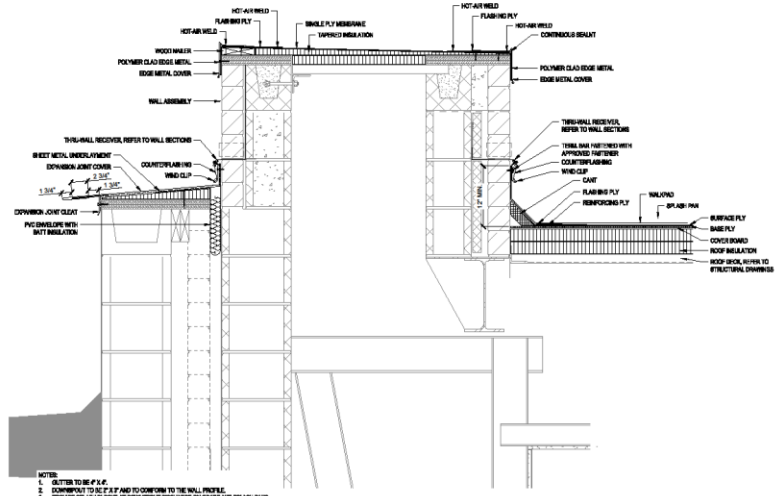
NOTE:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

5 MECHANICAL EQUIPMENT ROOF CURB
3" = 1' - 0"



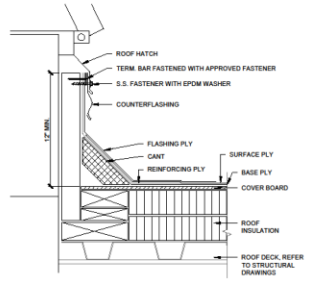
NOTES:
1. PENETRATIONS ARE TO BE 12" MIN. FROM FINISHED INSULATION HEIGHT.
2. DETAIL TO BE USED IN CONJUNCTION WITH MANUFACTURER'S GENERAL REQUIREMENTS, APPROVED DETAILS AND FLUID APPLIED FLASHING PRODUCTS APPLICATION AND COVERAGE DIRECTIONS.
3. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

4 TYPICAL PIPE PENETRATION
NOT TO SCALE



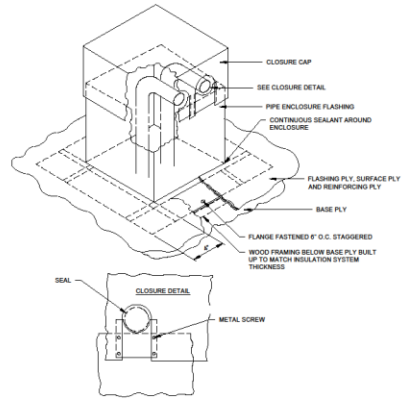
NOTES:
1. GUTTER TO BE 6" X 4".
2. DOWNSPOUT TO BE 3" X 3" AND TO CONFORM TO THE WALL PROFILE.
3. PROVIDE SPLASH BLOCKS AT DOWNSPOUT DISCHARGE ON GRADE AND SPLASH PANS AT DOWNSPOUT DISCHARGE ON ROOF (UNLESS OTHERWISE NOTED ON DRAWINGS).
4. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

3 EXISTING/ ADDITION TIE IN
1-1/2" = 1'-0"



NOTE:
1. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

2 ROOF HATCH
3" = 1' - 0"



NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MECHANICAL / ELECTRICAL WORK / GAS LINES OR RELATED EQUIPMENT.
2. CONDITIONS AND HEIGHTS MAY VARY, FLASH ISM LARLY.

1 MULTIPLE PIPE PENETRATION
NOT TO SCALE

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NORTH CHARLESTON, SOUTH CAROLINA 29405

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION RBI ENGINEERS INC. No. C01908
CORPORATE SEAL

REGISTERED No. 37623 PROFESSIONAL ENGINEER
ARCHITECT'S/ENGINEER'S SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 18006.00
■ DATE: 07.03.20

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

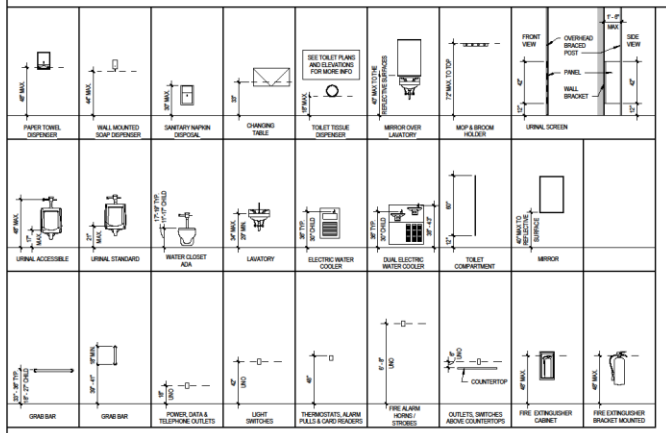
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ROOF DETAILS

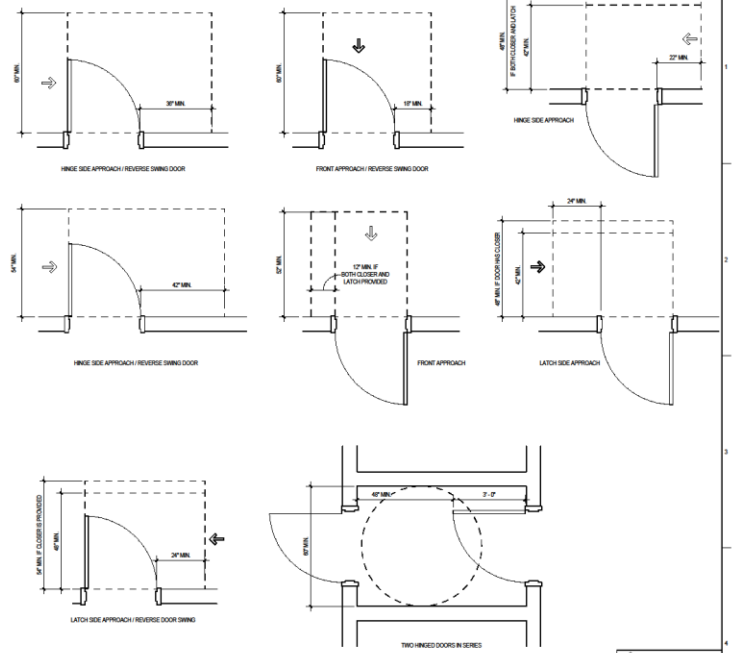
A4.32

MOUNTING HEIGHTS

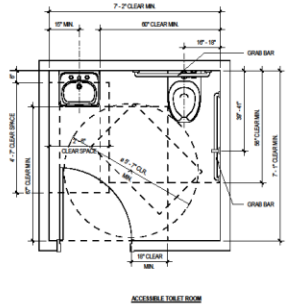
1. INSTALL ALL ITEMS IN ACCORDANCE WITH THIS DRAWING
2. WHERE DIMENSIONS PROVIDED VARY FROM MANUFACTURER'S RECOMMENDATIONS FOR ADA BARRIER FREE MOUNTING HEIGHTS, THE MANUFACTURER'S RECOMMENDATIONS WILL BE THE STANDARD.
3. DIMENSIONS ARE TO TOP OF FINISH FLOOR
4. MAINTAIN INTEGRITY OF FIRE RATING WHERE ACCESSORIES ARE MOUNTED IN RATED WALLS
5. PROVIDE WOOD BLOCKING FOR ALL ACCESSORIES MOUNTED ON GWB PARTITION.



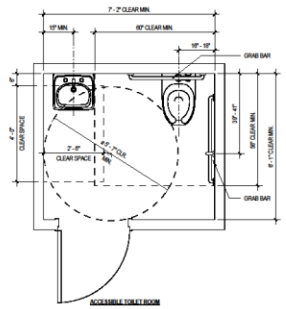
1 TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"



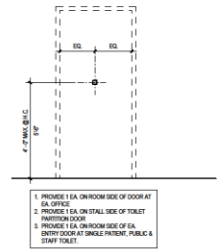
2 ACCESSIBLE APPROACH DIAGRAMS
1/2" = 1'-0"



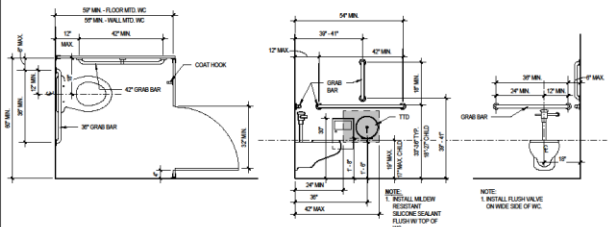
3 MIN. CLEARANCES AT ADA TOILET ROOMS
1/2" = 1'-0"



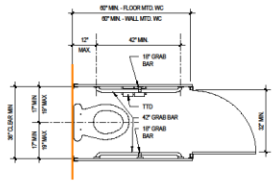
4 MIN. CLEARANCES AT ADA TOILET ROOMS
1/2" = 1'-0"



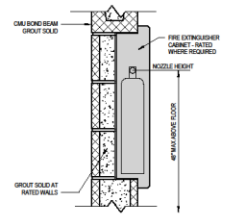
5 COAT HOOK ELEVATION @ DOORS
1/2" = 1'-0"



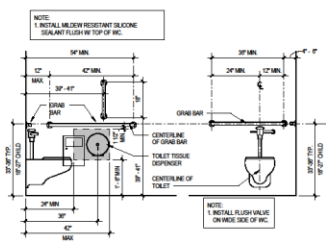
6 ADA TOILET PARTITION PLANS & ELEVATIONS
1/2" = 1'-0"



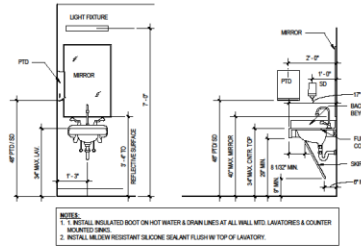
7 ADA AMBULATORY TOILET PARTITION PLANS
1/2" = 1'-0"



8 FIRE EXTINGUISHER DETAIL
1 1/2" = 1'-0"



9 ADA TOILET & GRAB BAR ELEVATIONS
1/2" = 1'-0"



10 TYP. WALL MOUNTED LAVATORY ELEVATION(S)
1/2" = 1'-0"

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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

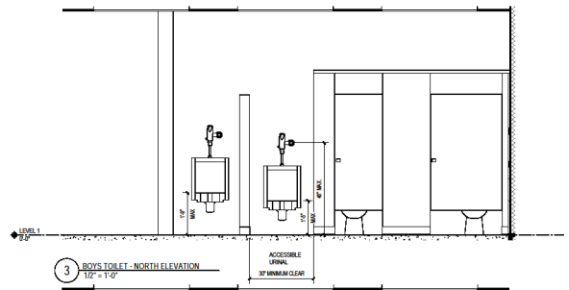
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ADA ACCESSIBLE DETAILS

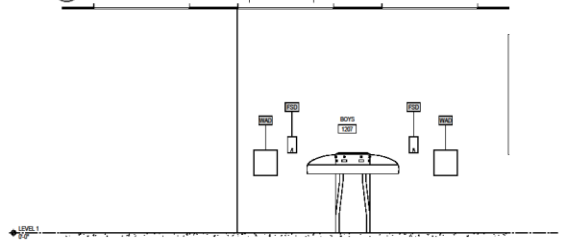
A5.00

TOILET ACCESSORIES SCHEDULE

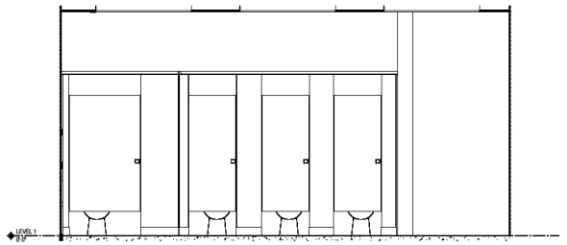
ITEM #	DESCRIPTION	MFR.	MODEL #	PROVIDED BY
DCS	DIAPER-CHANGING STATION – HORIZONTAL SURFACE MOUNTED	KOALA KARE PRODUCTS	KB300-00	CFCI
FSD	SOAP DISPENSER - SPARTAN LITE 'N FOAMY FOAM DISPENSER	SPARTAN CHEMICAL COMPANY, INC.	9751	CFCI
GB-1	GRAB BAR-STAINLESS STEEL 42"	BOBRICK	B8606 X 42	CFCI
GB-2	GRAB BAR-STAINLESS STEEL 36"	BOBRICK	B8606 X 36	CFCI
GB-3	GRAB BAR-STAINLESS STEEL 18"	BOBRICK	B8606 X 18	CFCI
MBH	MOP AND BROOM HOLDER WITH SHELF	BOBRICK	B-224	CFCI
MU-1	MIRROR UNIT – ANGLE-FRAME - 24x60	BOBRICK	B-165 2460	CFCI
PTD	HAND DRYER – SURFACE MOUNTED	EXCEL	ThinAir TA-ABS Surface Mount ADA	CFCI
SG	STAINLESS STEEL WALL SPLASH GUARD	FIAT	MSG3828. WIDTH TO MATCH SINK, TYP AT ALL CUSTODIAL SINKS	CFCI
SNDU	SANITARY NAPKIN DISPOSAL UNIT - SURFACE MOUNTED	BOBRICK	B-254	CFCI
TTD	TOILET TISSUE (SINGLE ROLL) DISPENSER – SURFACE MOUNTED	BOBRICK	B-2888	CFCI
WAD	HAND DRYER – SURFACE MOUNTED	EXCEL	ThinAir TA-ABS Surface Mount ADA	CFCI



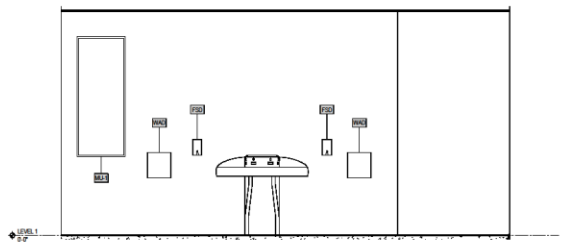
3 BOYS TOILET - NORTH ELEVATION
1/2" = 1'-0"



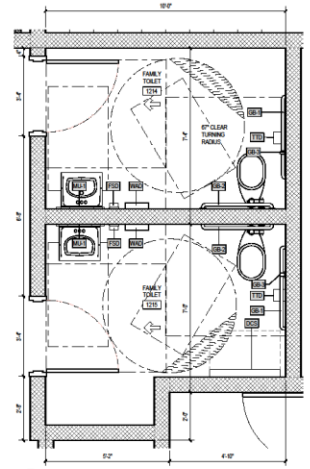
4 BOYS TOILET - SOUTH ELEVATION
1/2" = 1'-0"



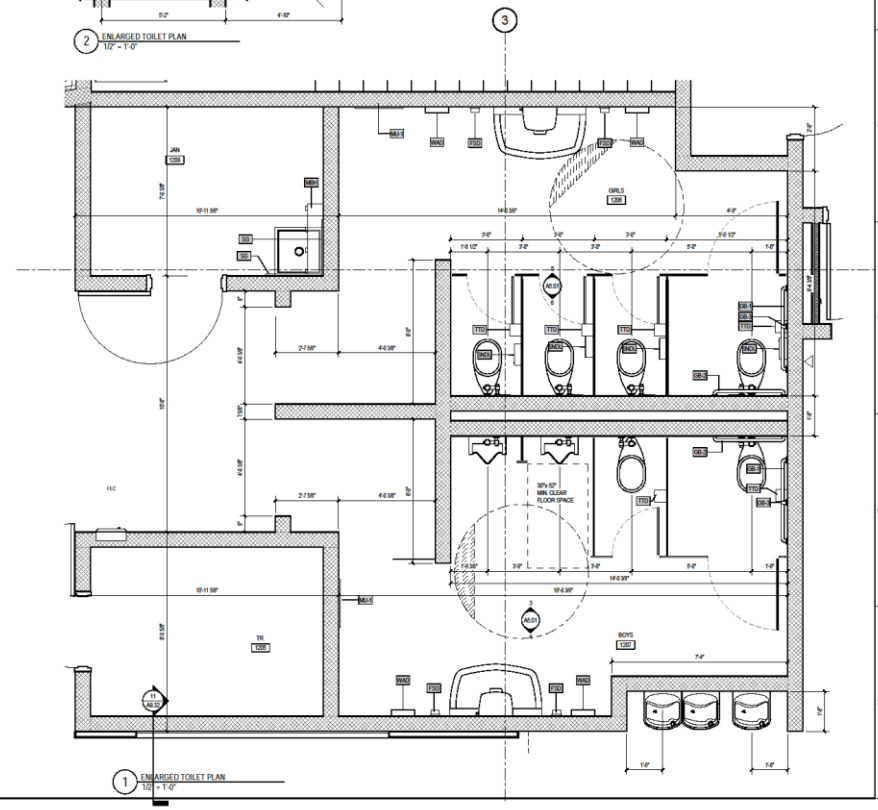
6 GIRLS TOILET - SOUTH ELEVATION
1/2" = 1'-0"



5 GIRLS TOILET - NORTH ELEVATION
1/2" = 1'-0"



2 ENLARGED TOILET PLAN
1/2" = 1'-0"



1 ENLARGED TOILET PLAN
1/2" = 1'-0"

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STEVENS & WILKINSON OF SOUTH CAROLINA, INC.
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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

TOILET PLANS, ELEVATIONS & DETAILS

A5.01

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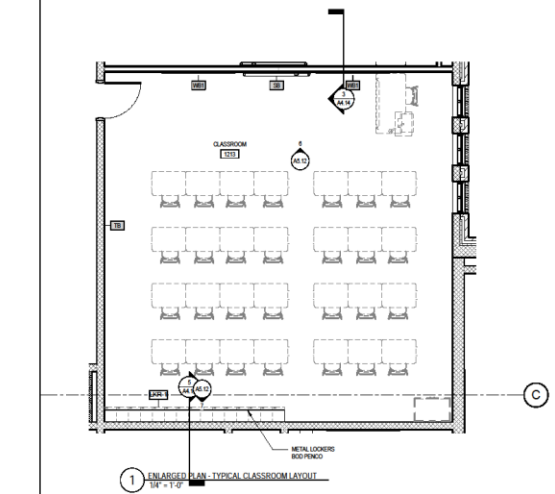
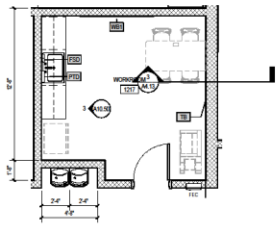
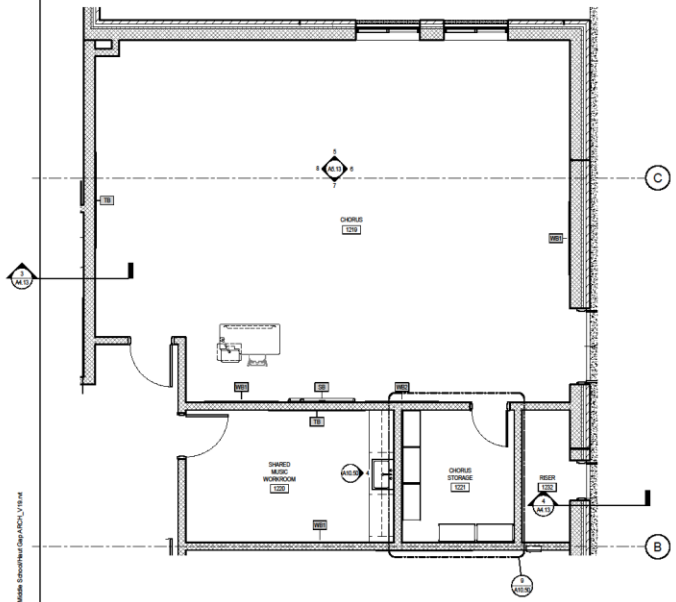


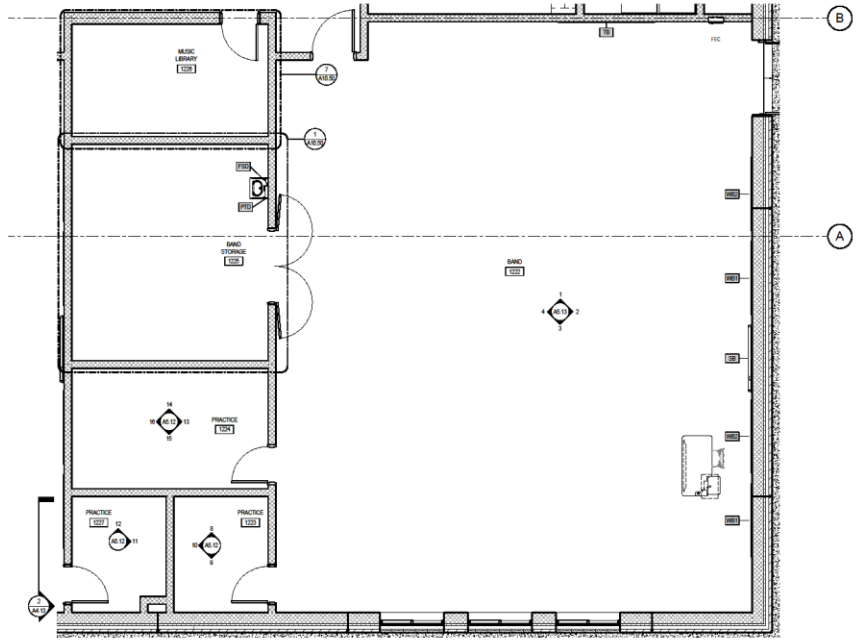
1 ENLARGED PLAN - TYPICAL CLASSROOM LAYOUT
1/4" = 1'-0"



2 ENLARGED PLAN - WORKROOM 1217
1/4" = 1'-0"



3 ENLARGED PLAN - CHORUS 1219/ SHARED MUSIC WKRM 1220
1/4" = 1'-0"



5 ENLARGED PLAN - BAND SUITE 1222
1/4" = 1'-0"

GENERAL ENLARGED PLAN NOTES

1. FURNITURE AND EQUIPMENT SHOWN DASHED AND HALF TONE ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE COORDINATED AND PROVIDED BY OWNER.
2. SEE ELECTRICAL DRAWINGS FOR INFORMATION ON OUTLETS AND DATA.
3. SEE FINISH PLANS FOR ACCENT PAINT LOCATIONS

SPECIALTY EQUIPMENT SCHEDULE

ITEM #	DESCRIPTION
SB	8'-0" INTERACTIVE WHITE BOARD
TB	8'-0" TACK BOARD
WB1	8'-0" WHITE BOARD
WB2	8'-0" WHITE BOARD WITH MUSIC STAFF LINES

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ENLARGED PLANS & ELEVATIONS

A5.11

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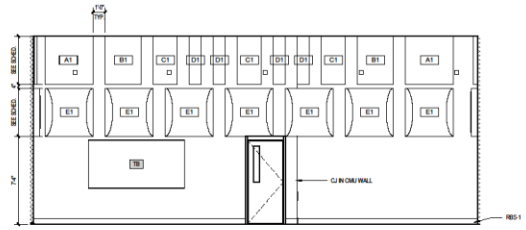
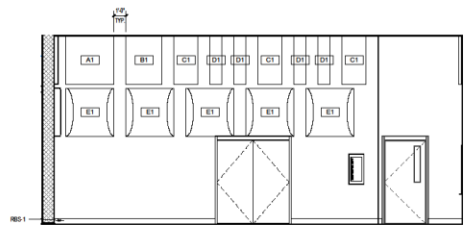
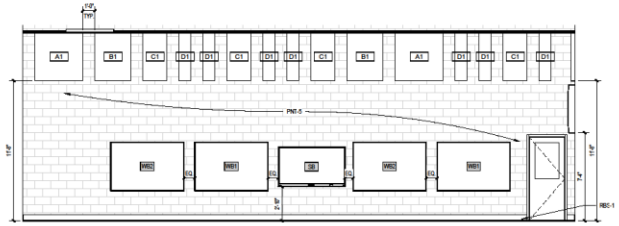


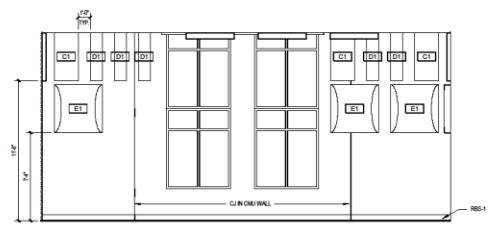
2 RM 1228 ORCHESTRA - WEST ELEVATION
1/4" = 1'-0"



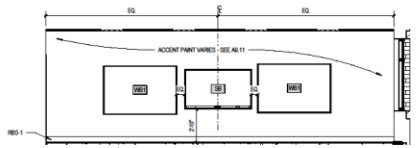
3 RM 1228 ORCHESTRA - NORTH ELEVATION
1/4" = 1'-0"



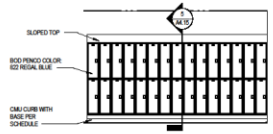
4 RM 1228 ORCHESTRA - EAST ELEVATION
1/4" = 1'-0"



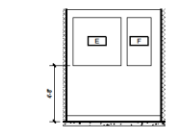
5 RM 1228 ORCHESTRA - SOUTH ELEVATION
1/4" = 1'-0"



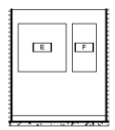
6 INTERIOR ELEVATION - TYPICAL CLASSROOM TEACHING WALL
1/4" = 1'-0"



7 INTERIOR ELEVATION - TYPICAL CLASSROOM LOCKERS
1/4" = 1'-0"

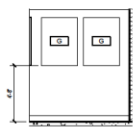


8 RM 1223 PRACTICE - NORTH ELEVATION
1/4" = 1'-0"

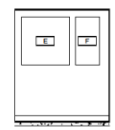


9 RM 1223 PRACTICE - SOUTH ELEVATION
1/4" = 1'-0"

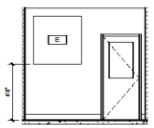
10 RM 1223 PRACTICE - WEST ELEVATION
1/4" = 1'-0"



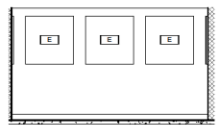
11 RM 1222 PRACTICE - EAST ELEVATION
1/4" = 1'-0"



12 RM 1222 PRACTICE - NORTH ELEVATION
1/4" = 1'-0"

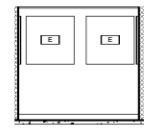


13 RM 1224 PRACTICE - EAST ELEVATION
1/4" = 1'-0"

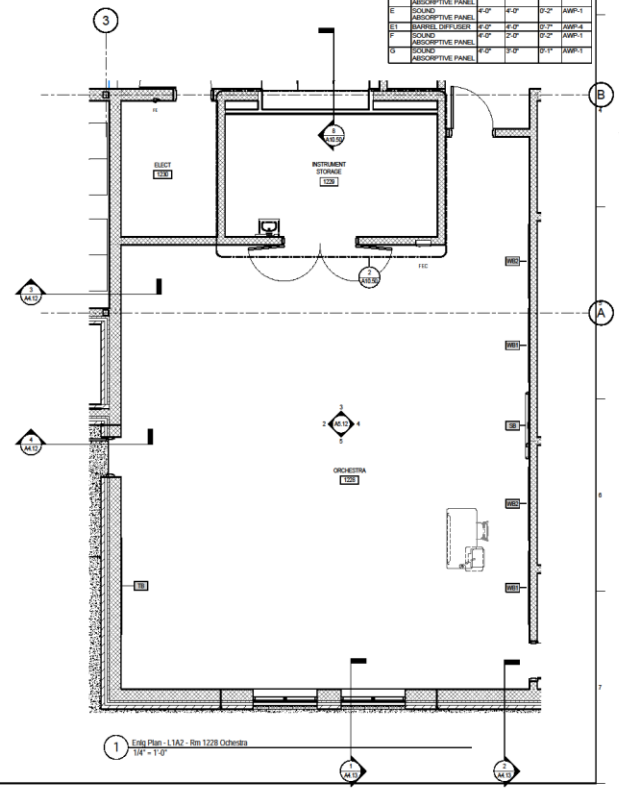


14 RM 1224 PRACTICE - NORTH ELEVATION
1/4" = 1'-0"

15 RM 1224 PRACTICE - SOUTH ELEVATION
1/4" = 1'-0"



16 RM 1224 PRACTICE - WEST ELEVATION
1/4" = 1'-0"



1 Entry Plan - L1A2 - Rm 1228 Orchestra
1/4" = 1'-0"

GENERAL ENLARGED PLAN NOTES

1. FURNITURE AND EQUIPMENT SHOWN DASHED AND HALF TONE ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE COORDINATED AND PROVIDED BY OWNER.
2. SEE ELECTRICAL DRAWINGS FOR INFORMATION ON OUTLETS AND DATA.
3. SEE FINISH PLANS FOR ACCENT PAINT LOCATIONS

GENERAL INTERIOR ELEVATION NOTES

1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. SEE A9.11 AND A9.31 FOR FINISH LEGEND, SCHEDULE, PLAN AND INFORMATION.
3. SEE A10 SHEETS FOR MORE INFORMATION ON CASEWORK.
4. COORDINATE SIZE AND LOCATION OF TV MONITOR WITH OWNER. TV'S SHOWN IN DRAWINGS ARE BASED ON A 65" MODEL. PROVIDE BLOCKING AS REQUIRED.
5. ALL AREAS EXCEPT WHERE THERE IS TILE TO RECEIVE RBS-1 AS BASE.
6. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF OUTLETS ABOVE COUNTERTOPS.
7.

SPECIALTY EQUIPMENT SCHEDULE

ITEM #	DESCRIPTION
SB	8'-0" INTERACTIVE WHITE BOARD
TB	8'-0" TACK BOARD
WB1	8'-0" WHITE BOARD
WB2	8'-0" WHITE BOARD WITH MUSIC STAFF LINES

ACOUSTIC PANEL SCHEDULE

MARK	DESCRIPTION	SIZE Unit Width	SIZE Unit Length	SIZE Unit Depth	FINISH
A	SOUND ABSORPTIVE PANEL	8'-0"	4'-0"	0'-4"	AWP-1
A1	SOUND ABSORPTIVE PANEL	4'-0"	4'-0"	0'-4"	AWP-1
B	SOUND ABSORPTIVE PANEL	8'-0"	3'-0"	0'-2"	AWP-2
B1	SOUND ABSORPTIVE PANEL	4'-0"	3'-0"	0'-2"	AWP-2
C	SOUND ABSORPTIVE PANEL	8'-0"	2'-0"	0'-4"	AWP-1
C1	SOUND ABSORPTIVE PANEL	4'-0"	2'-0"	0'-4"	AWP-1
D	SOUND ABSORPTIVE PANEL	8'-0"	1'-0"	0'-1"	AWP-3
D1	SOUND ABSORPTIVE PANEL	4'-0"	1'-0"	0'-1"	AWP-3
E	SOUND ABSORPTIVE PANEL	4'-0"	4'-0"	0'-2"	AWP-1
E1	BARREL DIFFUSER	4'-0"	4'-0"	0'-7"	AWP-4
F	SOUND ABSORPTIVE PANEL	4'-0"	2'-0"	0'-2"	AWP-1
G	SOUND ABSORPTIVE PANEL	4'-0"	3'-0"	0'-1"	AWP-1

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ENLARGED PLANS & ELEVATIONS

A5.12

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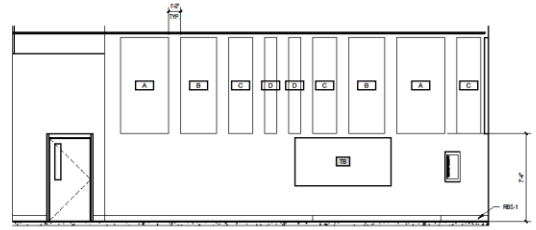
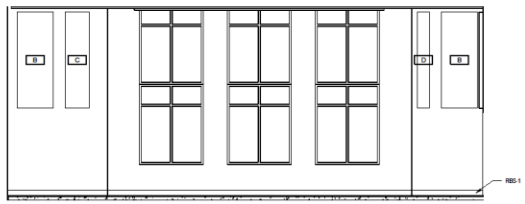
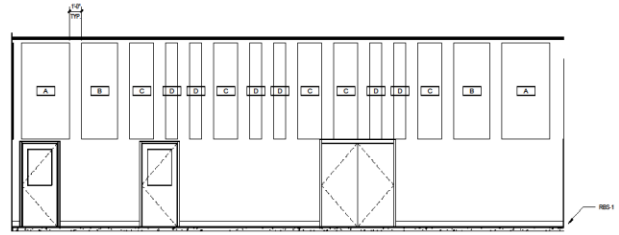


1 RM 1222 BAND - NORTH ELEVATION
1/4" = 1'-0"

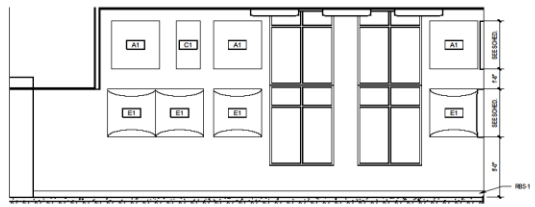
2 RM 1222 BAND - EAST ELEVATION
1/4" = 1'-0"



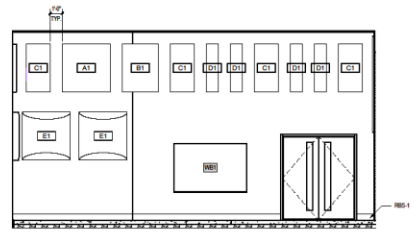
3 RM 1222 BAND - SOUTH ELEVATION
1/4" = 1'-0"



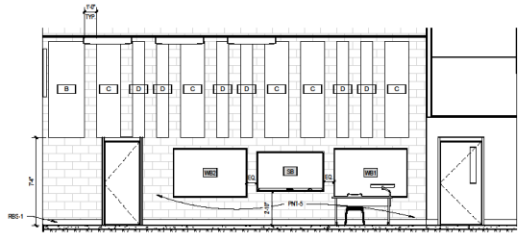
4 RM 1222 BAND - WEST ELEVATION
1/4" = 1'-0"



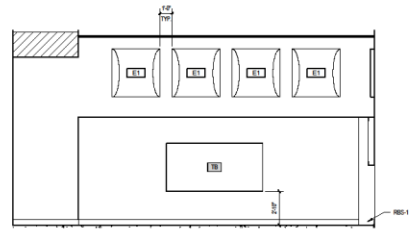
5 RM 1219 CHORUS - NORTH ELEVATION
1/4" = 1'-0"



6 RM 1219 CHORUS - EAST ELEVATION
1/4" = 1'-0"



7 RM 1219 CHORUS - SOUTH ELEVATION
1/4" = 1'-0"



8 RM 1219 CHORUS - WEST ELEVATION
1/4" = 1'-0"

GENERAL ENLARGED PLAN NOTES

1. FURNITURE AND EQUIPMENT SHOWN DASHED AND HALF TONE ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE COORDINATED AND PROVIDED BY OWNER.
2. SEE ELECTRICAL DRAWINGS FOR INFORMATION ON OUTLETS AND DATA.
3. SEE FINISH PLANS FOR ACCENT PAINT LOCATIONS

GENERAL INTERIOR ELEVATION NOTES

1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. SEE A6.11 AND A6.31 FOR FINISH LEGEND, SCHEDULE, PLAN AND INFORMATION.
3. SEE A10 SHEETS FOR MORE INFORMATION ON CASEWORK.
4. COORDINATE SIZE AND LOCATION OF TV MONITOR WITH OWNER. TV'S SHOWN IN DRAWINGS ARE BASED ON A 65" MODEL. PROVIDE BLOCKING AS REQUIRED.
5. ALL AREAS EXCEPT WHERE THERE IS TILE TO RECEIVE RBS-1 AS BASE.
6. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF OUTLETS ABOVE COUNTERTOPS.
7.

SPECIALTY EQUIPMENT SCHEDULE

ITEM #	DESCRIPTION
SB	8'-0" INTERACTIVE WHITE BOARD
TB	8'-0" TACK BOARD
WB1	8'-0" WHITE BOARD
WB2	8'-0" WHITE BOARD WITH MUSIC STAFF LINES

ACOUSTIC PANEL SCHEDULE

MARK	DESCRIPTION	SIZE: Unit Width	Unit Length	Unit Depth	FINISH
A	SOUND ABSORPTIVE PANEL	8'-0"	4'-0"	0'-4"	AWP-1
A1	SOUND ABSORPTIVE PANEL	4'-0"	4'-0"	0'-4"	AWP-1
B	SOUND ABSORPTIVE PANEL	8'-0"	3'-0"	0'-2"	AWP-2
B1	SOUND ABSORPTIVE PANEL	4'-0"	3'-0"	0'-2"	AWP-2
C	SOUND ABSORPTIVE PANEL	8'-0"	2'-0"	0'-4"	AWP-1
C1	SOUND ABSORPTIVE PANEL	4'-0"	2'-0"	0'-4"	AWP-1
D	SOUND ABSORPTIVE PANEL	8'-0"	1'-0"	0'-1"	AWP-3
D1	SOUND ABSORPTIVE PANEL	4'-0"	1'-0"	0'-1"	AWP-3
E	SOUND ABSORPTIVE PANEL	4'-0"	4'-0"	0'-2"	AWP-1
E1	BARREL DIFFUSER	4'-0"	4'-0"	0'-7"	AWP-4
F	SOUND ABSORPTIVE PANEL	4'-0"	2'-0"	0'-2"	AWP-1
G	SOUND ABSORPTIVE PANEL	4'-0"	3'-0"	0'-1"	AWP-1

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BROWNSTONE GROUP
4085 FABER PLACE DRIVE, SUITE 202
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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19065.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ENLARGED PLANS & ELEVATIONS

A5.13

BIM 360://Haut Gap Middle School/Haut Gap_ARCH_V19.rvt
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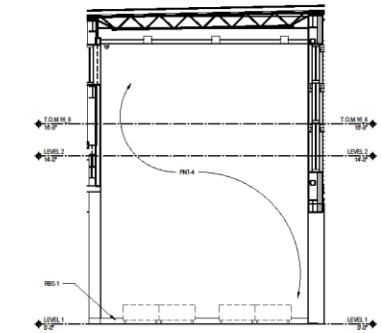
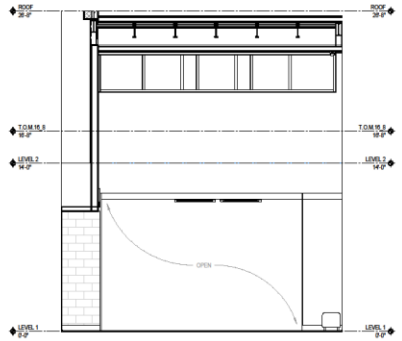
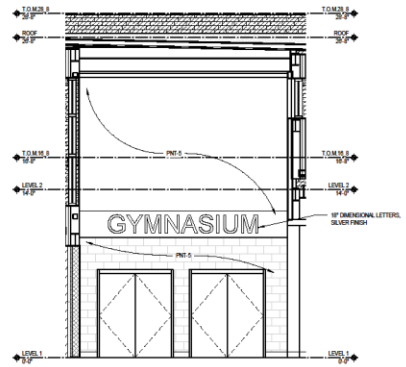


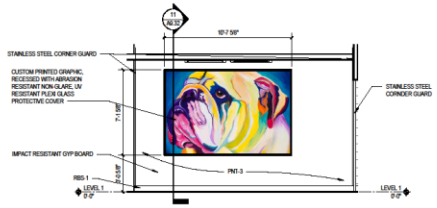
1 LOBBY 1202 - EAST ELEVATION
1/4" = 1'-0"



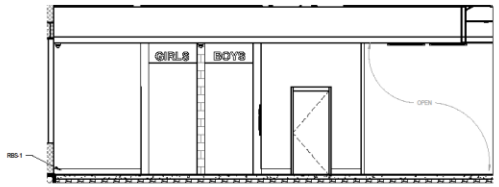
2 LOBBY 1202 - NORTH ELEVATION
1/4" = 1'-0"



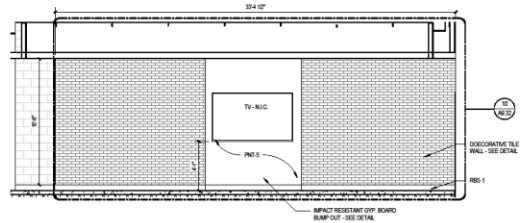
3 LOBBY 1202 - WEST ELEVATION
1/4" = 1'-0"



6 CORRIDOR 1203 - NORTH ELEVATION
1/4" = 1'-0"



5 PRE-FUNCTION 1204 - EAST ELEVATION
1/4" = 1'-0"



4 PRE-FUNCTION 1204 - SOUTH ELEVATION
1/4" = 1'-0"

GENERAL ENLARGED PLAN NOTES

1. FURNITURE AND EQUIPMENT SHOWN DASHED AND HALF TONE ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE COORDINATED AND PROVIDED BY OWNER.
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3. SEE FINISH PLANS FOR ACCENT PAINT LOCATIONS

GENERAL INTERIOR ELEVATION NOTES

1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. SEE A6.11 AND A6.31 FOR FINISH LEGEND, SCHEDULE, PLAN AND INFORMATION.
3. SEE A10 SHEETS FOR MORE INFORMATION ON CASEWORK.
4. COORDINATE SIZE AND LOCATION OF TV MONITOR WITH OWNER. TV'S SHOWN IN DRAWINGS ARE BASED ON A 55" MODEL. PROVIDE BLOCKING AS REQUIRED.
5. ALL AREAS EXCEPT WHERE THERE IS TILE TO RECEIVE RBS-1 AS BASE.
6. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF OUTLETS ABOVE COUNTERTOPS.
7.

SPECIALTY EQUIPMENT SCHEDULE

ITEM #	DESCRIPTION
SB	8'-0" INTERACTIVE WHITE BOARD
TB	8'-0" TACK BOARD
WB1	8'-0" WHITE BOARD
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CORPORATE SEAL

STATE OF SOUTH CAROLINA LINDA R. SHAFFER 5262 REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19005.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ENLARGED PLANS & ELEVATIONS

A5.14

BIM 360://Haut Gap Middle School/Haut Gap_ARCH_V19.rvt
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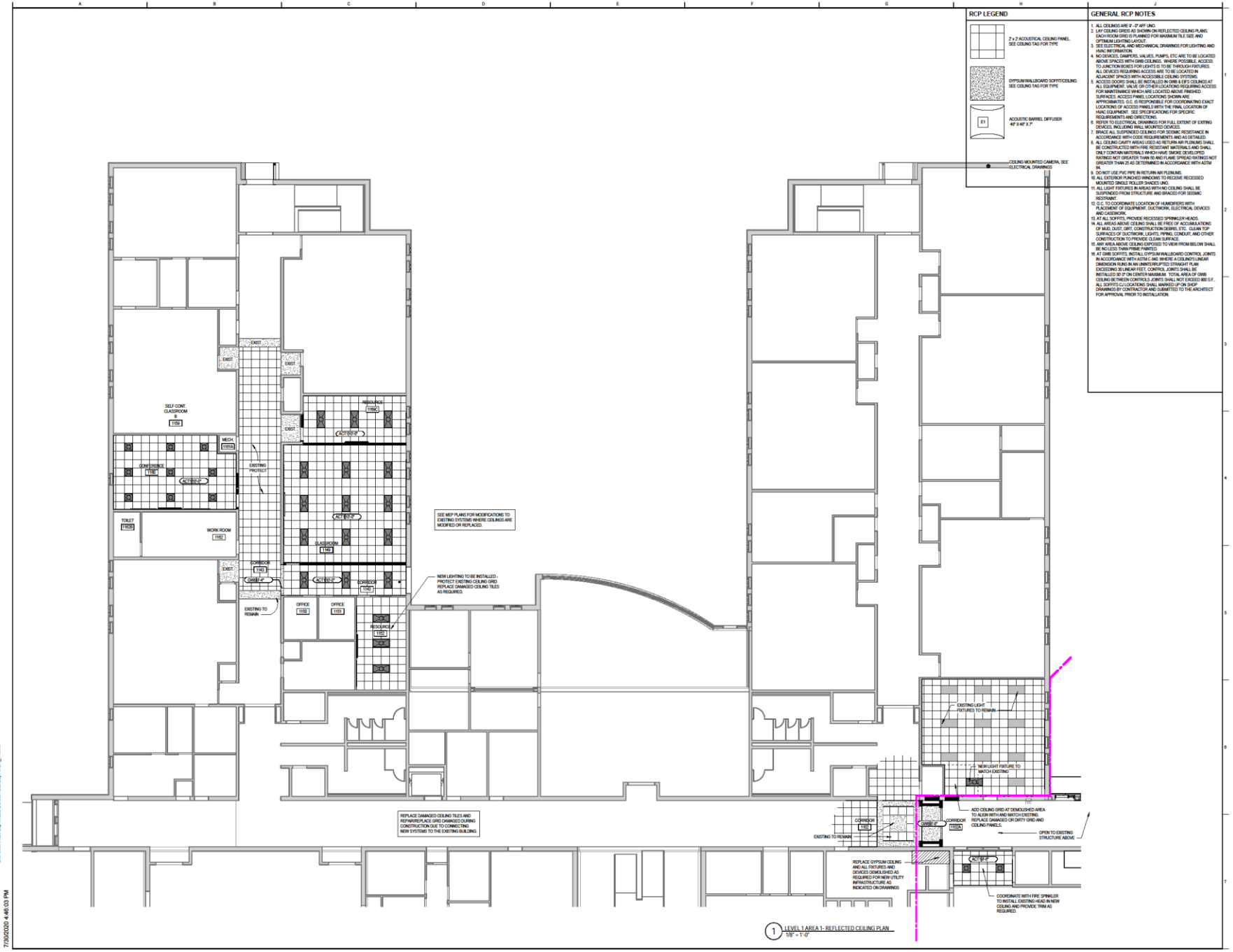

1 LEVEL 1 AREA 1- REFLECTED CEILING PLAN
1/8" = 1'-0"

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7/30/2020 4:46:03 PM

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REGISTERED ARCHITECTURE
CORPORATE SEAL

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

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■ PROJECT NUMBER: 19055.00
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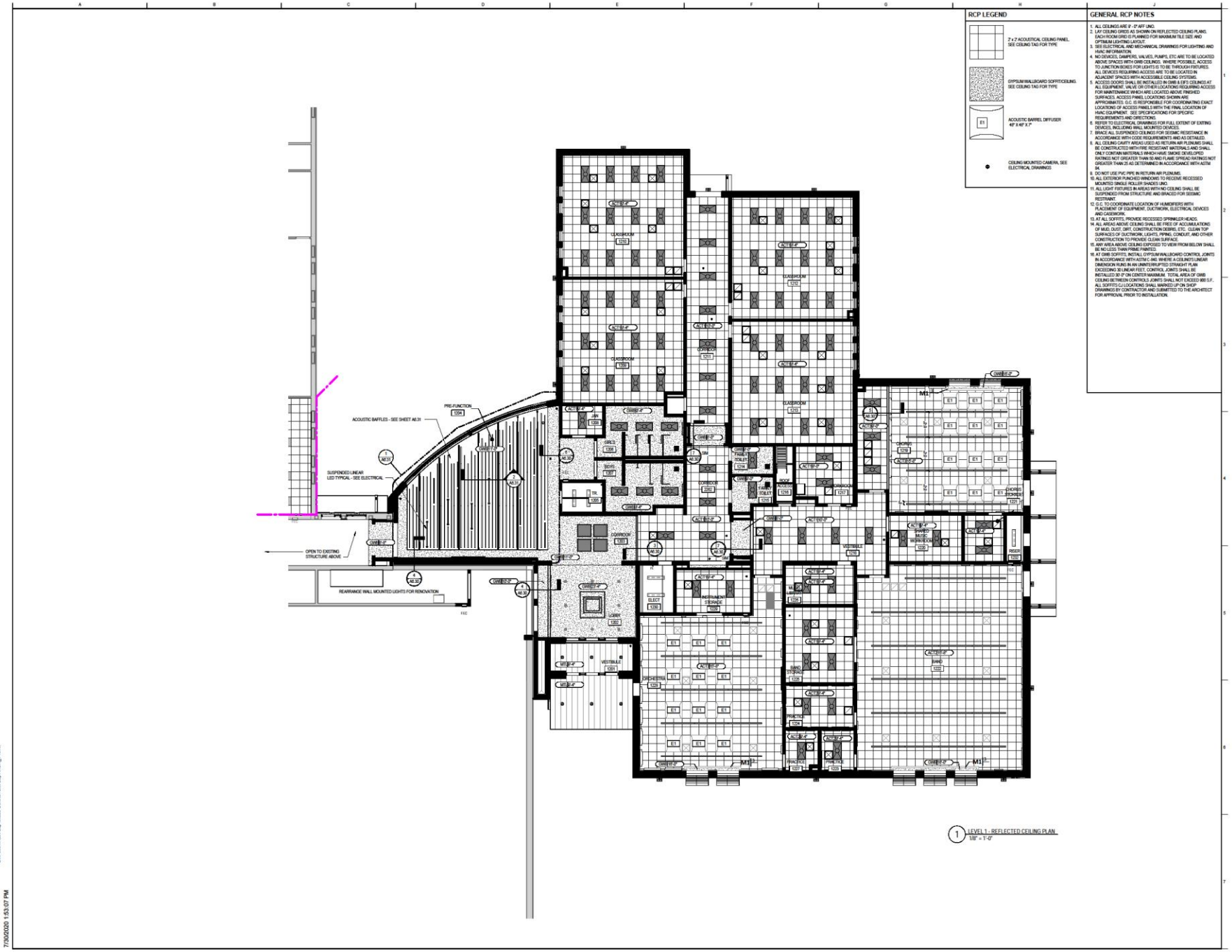
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 1 REFLECTED CEILING PLAN

A6.11



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REGISTERED ARCHITECTURAL CORPORATION
CORPORATE SEAL

STATE OF SOUTH CAROLINA
LINDA R. SHAFFER
REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

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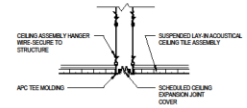
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

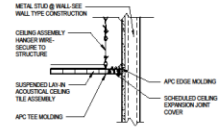
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 2 REFLECTED CEILING PLAN

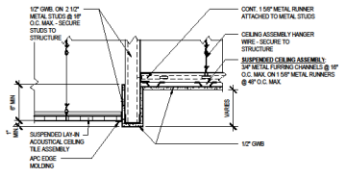
A6.12



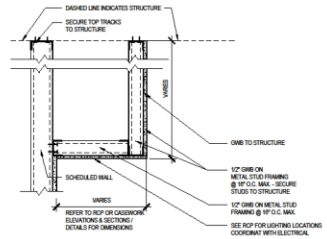
1 APC CEILING EXPANSION JOINT DETAIL, TYPICAL
1 1/2" = 1'-0"



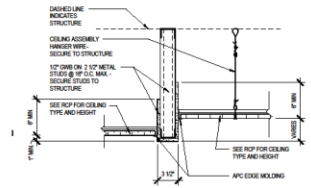
2 APC CEILING EXPANSION JOINT DETAIL
1 1/2" = 1'-0"



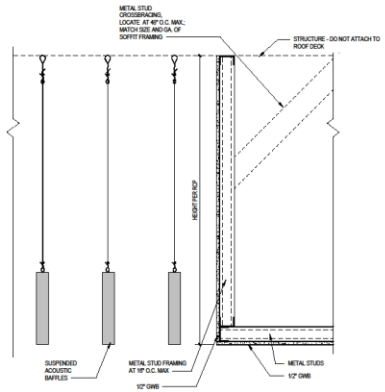
3 GWB BULKHEAD DETAIL - APC TO GWB
1 1/2" = 1'-0"



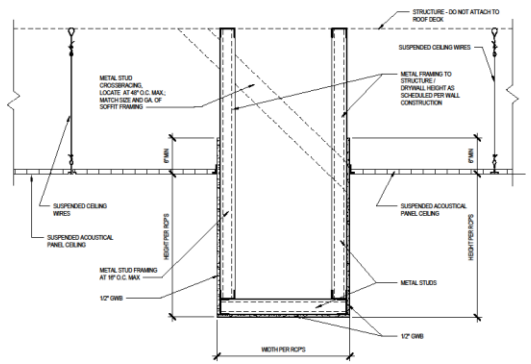
4 GWB SOFFIT DETAIL - EXP CLNG
1 1/2" = 1'-0"



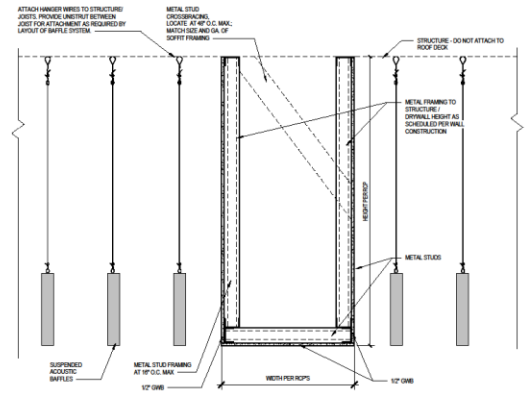
5 GWB BULKHEAD DETAIL - APC TO APC
1 1/2" = 1'-0"



6 WIDE SOFFIT AT BAFFLES TO GWB DETAIL
1 1/2" = 1'-0"



7 WIDE SOFFIT DETAIL
1 1/2" = 1'-0"



8 WIDE SOFFIT AT BAFFLES DETAIL
1 1/2" = 1'-0"

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7/30/2020 1:53:21 PM

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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19055.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

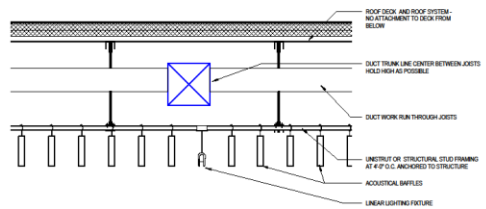
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

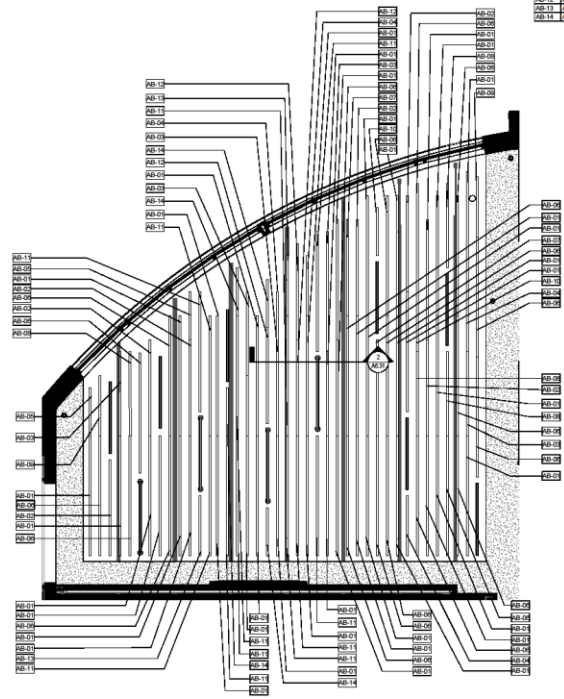
CEILING DETAILS

A6.30

ACOUSTIC BAFFLE SCHEDULE		
MARK	DESCRIPTION - W x H x D	COLOR
AB-01	ACOUSTIC BAFFLE - 10' x 10" x 2"	WHITE
AB-02	ACOUSTIC BAFFLE - 8' x 10" x 2"	WHITE
AB-03	ACOUSTIC BAFFLE - 7' x 10" x 2"	WHITE
AB-04	ACOUSTIC BAFFLE - 5' x 10" x 2"	WHITE
AB-05	ACOUSTIC BAFFLE - 4' x 10" x 2"	WHITE
AB-06	ACOUSTIC BAFFLE - 10' x 10" x 2"	MATCH PNT-3
AB-07	ACOUSTIC BAFFLE - 8' x 10" x 2"	MATCH PNT-3
AB-08	ACOUSTIC BAFFLE - 7' x 10" x 2"	MATCH PNT-3
AB-09	ACOUSTIC BAFFLE - 5' x 10" x 2"	MATCH PNT-3
AB-10	ACOUSTIC BAFFLE - 4' x 10" x 2"	MATCH PNT-3
AB-11	ACOUSTIC BAFFLE - 10' x 10" x 2"	MATCH PNT-5
AB-12	ACOUSTIC BAFFLE - 8' x 10" x 2"	MATCH PNT-5
AB-13	ACOUSTIC BAFFLE - 5' x 10" x 2"	MATCH PNT-5
AB-14	ACOUSTIC BAFFLE - 4' x 10" x 2"	MATCH PNT-5



2 CEILING SECTION
3/4" = 1'-0"



1 ENLARGED RCP - PREFUNCTION BAFFLES
1/4" = 1'-0"

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CORPORATE SEAL

STATE OF SOUTH CAROLINA
LINDA R. SHAFFER
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PROJECT NUMBER: 19055.00
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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

CEILING DETAILS

A6.31

BIM 360://Haut Gap Middle School/Haut Gap_ARCH_V19.rvt
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DOOR SCHEDULE

DOOR NUMBER	DOOR & FRAME RATING (IN MINUTES)	NUM OF PANELS	DOOR PANEL(S)							DOOR FRAME			DETAILS		DOOR HARDWARE		KEYNOTES	REV
			PANEL 1		PANEL 2		PANEL HEIGHT	PANEL MATERIAL #1	PANEL MATERIAL #2 (IF APPLICABLE)	FINISH 1	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SET	POWER / ACCESS		
			PANEL 1 - TYPE	P1 WIDTH	PANEL 2 - TYPE	P2 WIDTH													
LEVEL 1																			
1102A		2	N	4'-0"	N	4'-0"	7'-10"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	8.0	CARD READER	Card Reader & MHO	
1102B		1	FG	3'-0"			7'-0"	AL	IG-1T	FF	00-AL	AL	FF	H7	J7	2.0		NOTE 3	
1102C		1	FG	3'-0"			7'-0"	AL	IG-1T	FF	00-AL	AL	FF	H7	J7	1.0	CARD READER	Card Reader	
1109C	90	2	F	3'-0"	F	3'-0"	7'-0"	HM	-	PNT	06-HM1	HM	PNT	H5	J5	10.0			
1109D	90	2	F	3'-0"	F	3'-0"	7'-0"	HM	-	PNT	06-HM1	HM	PNT	H5	J5	10.0			
1113	60	2	F	3'-0"	F	3'-0"	7'-0"	SWC	-	STN	06-HM1	HM	PNT	H5	J5	22.0			
1115A		1	F	3'-0"			7'-0"	HM	-	PNT	02-HM1	HM	PNT	H1	J1	19.0			
1149		1	N	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H1	J1	15.0			
1152		1	N	3'-0"			7'-0"	HM	-	PNT	02-HM1	HM	PNT	H1	J1	13.0		Classroom Function Hardware	
1160		1	N	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	15.0			
1169C		1	N	3'-0"			7'-0"	WD	GL-1T	STN	02-HM1	HM	PNT	H5	J5	17.0			
1201A		1	FG	3'-0"			7'-0"	AL	IG-1T	FF	00-AL	AL	FF	H8	J8	3.0		NOTE 3	
1201B		1	FG	3'-0"			7'-0"	AL	IG-1T	FF	00-AL	AL	FF	H8	J8	3.0		NOTE 3	
1201C		1	FG	3'-0"			7'-0"	AL	IG-1T	FF	00-AL	AL	FF	H8	J8	1.0	CARD READER	Card Reader	
1202A		1	FG	3'-0"			7'-0"	AL	IG-1T	FF	00-AL	AL	FF	H3A	J3	6.0		NOTE 3	
1202B		1	FG	3'-0"			7'-0"	AL	IG-1T	FF	00-AL	AL	FF	H3A	J3	6.0		NOTE 3	
1202C		1	FG	3'-0"			7'-0"	AL	IG-1T	FF	00-AL	AL	FF	H3A	J3	6.0			
1203	90	2	F	4'-0"	F	4'-0"	7'-10"	HM	-	PNT	06-HM1	HM	PNT	H5	J5	9.0	MAGNETIC HOLDS	Magnetic Hold Open	
1205		1	F	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	11.0	ACCESS CONTROL	INTEGRATED CARD READER	
1208		1	F	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	19.0			
1209		1	N	3'-0"			7'-0"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	16.0		STC 45	
1210		1	N	3'-0"			7'-0"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	16.0		STC 45	
1211A		2	N	4'-0"	N	4'-0"	7'-0"	SWC	GL-1T	STN	06-HM1	HM	PNT	H5	J5A	8.0		Card Reader MHO	
1211B		2	N	3'-0"	N	3'-0"	7'-0"	FRP	GL-1T	FF	06-HM1	AL	FF	H3	J3	4.0	CARD READER	Card Reader	
1212		1	N	3'-0"			7'-0"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	16.0		STC 45	
1213		1	N	3'-0"			7'-0"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	16.0		STC 45	
1214		1	F	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	12.0			
1215		1	F	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	12.0			
1216		1	F	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	19.0			
1217		1	F	3'-0"			7'-0"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	18.0			
1218		2	N	4'-0"	N	4'-0"	7'-10"	SWC	GL-1T	STN	06-HM1	HM	PNT	H5	J5A	8.0	CARD READER	Card Reader MHO	
1219A		1	N	3'-0"			7'-0"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	7.0		STC 45	
1219B		2	N	3'-0"	N	3'-0"	7'-0"	FRP	GL-1T	FF	06-HM1	AL	FF	H3	J3	4.0	CARD READER	Card Reader	
1220		1	N	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	15.0			
1221		1	F	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	13.0			
1222A		1	N	3'-0"			7'-0"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	7.0		STC 45	
1222B		2	N	3'-0"	N	3'-0"	7'-0"	FRP	GL-1T	FF	06-HM1	AL	FF	H3	J3	4.0	CARD READER	Card Reader	
1223		1	G	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	14.0		STC45 Min	
1224		1	G	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	14.0		STC45 Min	
1225		2	F	3'-0"	F	3'-0"	7'-0"	SWC	GL-1T	STN	06-HM1	HM	PNT	H5	J5	23.0			
1226		1	N	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	15.0			
1227		1	G	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	14.0		STC45 Min	
1228A		1	N	3'-0"			7'-0"	SWC	GL-1T	STN	02-HM1	HM	PNT	H5	J5	7.0		STC 45	
1228B		1	N	3'-0"			7'-0"	FRP	-	FF	02-HM1	AL	FF	H3	J3	1.0	CARD READER	Card Reader	
1229		2	F	3'-0"	F	3'-0"	7'-0"	SWC	-	STN	06-HM1	HM	PNT	H5	J5	23.0			
1230		1	F	3'-0"			7'-0"	HM	-	PNT	02-HM1	HM	PNT	H5	J5	20.0			
1231		1	F	3'-0"			7'-0"	SWC	-	STN	02-HM1	HM	PNT	H5	J5	21.0			
1232		1	F	3'-0"			7'-0"	FRP	-	FF	02-HM1	AL	FF	H3	J3	5.0			

GLAZING LEGEND

IG-1	1" INSULATED LOW-E
IG-1T	1" TEMPERED INSULATED LOW-E
GL-1	1/4" CLEAR FLOAT GLASS
GL-1T	1/4" CLEAR TEMPERED FLOAT GLASS
GL-2T	1/2" CLEAR TEMPERED FLOAT GLASS

KEYNOTES

1. STC 45 MIN. DOOR ASSEMBLY WITH PERIMETER AND AUTOMATIC DROP BOTTOM SEALS.
2. BASE BID : STC 45 MINIMUM DOOR ASSEMBLY WITH PERIMETER AND AUTOMATIC DROP BOTTOM SEALS.

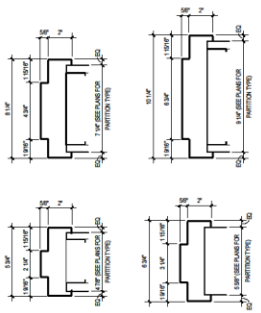
   ALTERNATE BID : STC 55 MINIMUM SOUND RATED DOOR ASSEMBLY. BOD : Isoacoustics "Noiselock" STC 55
3. SEE SHEET A7.10 FOR STOREFRONT FRAME ELEVATIONS.
4. EXISTING DOOR TO REMAIN. PROVIDE NEW CLASSROOM FUNCTION HARDWARE SET.
5. CARD READER.
6. CARD READER AND HOLD OPENS.
7. MAGNETIC HOLDOPENS TIED INTO FIRE ALARM SYSTEM

DOORS & GLAZED OPENINGS NOTES

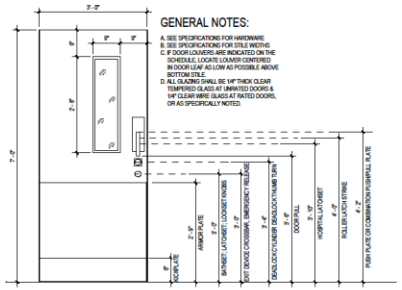
1. ALL INTERIOR DOOR FRAMES SHALL BE HOLLOW METAL WITH A 2" FACE JAMB DIMENSION AND 4" HEAD EXCEPT AS NOTED AT DOOR SCHEDULE.
2. SEE WINDOW AND DOOR DETAILS ON A7.01 FOR ADDITIONAL INFORMATION.
3. REFER TO WALL SECTIONS AND EXTERIOR ELEVATIONS FOR ADDITIONAL HEAD, JAMB AND SILL INFORMATION.
4. ALL FLOORING TRANSITIONS UNDER DOORS SHALL BE IN ACCORDANCE WITH TRANSITION DETAILS ON A9.32.
5. SEE A7.10 FOR EXTERIOR STOREFRONT AND CURTAINWALL ELEVATIONS.
6. THE FLOOR ON BOTH SIDES OF A DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR FOR A DISTANCE ON EACH SIDE AT LEAST EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR PANEL. FLOOR SURFACES SHALL COMPLY WITH ANSI 117.1-2017.
7. ALL PERIMETER JOINTS AT ALL EXTERIOR DOOR AND GLAZED OPENINGS SHALL BE 1/2" MINIMUM IN WIDTH AT JAMBS AND HEADS AND 1" MAXIMUM AT JAMBS AND HEADS. SEAL ALL JOINTS AS INDICATED AT DRAWINGS.
8. ALL DOORS WITH SELF-CLOSERS SHALL CONFORM TO ALL APPLICABLE CODES OR HAVE A MAXIMUM FORCE ALLOWABLE OF 5 LBF AND HAVE A MINIMUM SWEEP PERIOD OF 3 SECONDS FROM 70 DEGREES OPEN TO 3" LATCH FROM LATCH TO LEADING DOOR EDGE, WHICHEVER IS MORE STRICT SHALL APPLY. SELF CLOSING DEVICES SHALL MEET THE REQUIREMENTS OF ANSI 117.1-2017.
9. SWING AND FORCE TO OPEN DOORS SHALL MEET THE REQUIREMENTS OF ANSI 117.1-2017, CHAPTER 4.
10. DOORS/HARDWARE HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
11. CURTAINWALL AND STOREFRONT MANUFACTURER ARE TO BE SOLE SOURCED.
12. OPENING HEIGHTS AND WIDTHS NOTED ARE NOMINAL ROUGH OPENING WIDTHS. VERIFY IN FIELD ALL DIMENSIONS.
13. ALL DIMENSIONS AT CURTAINWALL AND STOREFRONT ELEVATIONS ARE TO TOP OF MULLION UNO.
14. PLUG ALL VERTICAL MULLIONS AT HEADERS.
15. CURTAINWALL/STOREFRONT MANUFACTURER TO PROVIDE HIGH-PERFORMANCE SUBSILL AND END DAMS.
16. G.C. TO PROVIDE TO GLAZING MANUFACTURER, PRODUCT DATA AND CUT SHEETS FOR ALL MATERIALS THAT COME INTO CONTACT WITH GLAZING.
17. AT ALL EXTERIOR HOLLOW METAL FRAMES, FILL FRAMES WITH THERMAL BATTS, R-19 MIN.
18. AT ALL HOLLOW METAL FRAMES AT MASONRY WALLS, GROUT FRAME SOLID.
19. AT ALL HOLLOW METAL FRAMES INSTALLED IN STUD WALLS THAT HAVE SOUND BATTS, FILL HOLLOW METAL FRAMES WITH SOUND BATTS.

DOOR SCHEDULE ABBREVIATIONS

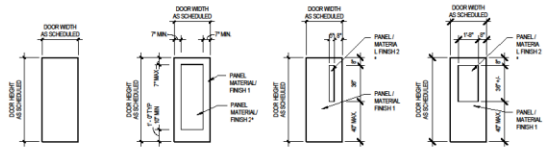
ALUM	ALUMINUM
CR	CARD READER
CR-X	CARD READER A, B, C ETC
CW	CURTAINWALL
DMS	DOOR MONITORING SWITCH
EL	ELECTRIC LATCH RETRACTION
EXST	EXISTING
EXT STF	EXTERIOR STOREFRONT
FF	FACTORY FINISH
HGT	HEIGHT
HM	HOLLOW METAL
IN	INCH
INT STF	INTERIOR STOREFRONT
MAX	MAXIMUM
MHO	MAGNETIC HOLD OPEN DEVICE
MIN	MINIMUM
ML	MAGNETIC LOCK
THK	THICKTHICKNESS
P1	ACTIVE LEAF DOOR PANEL
P2	INACTIVE LEAF DOOR PANEL
PDO	POWER DOOR OPERATOR
PNT	PAINT
PR	PAIR
PT	POWER TRANSFER PREP
REV	REVISION (SEE SUBMITTAL/REVISION SCHEDULE AT RIGHT SHEET MARGIN)
R.O.	ROUGH OPENING
RX	REQUEST TO EXIT SWITCH
SCW	SOLID CORE WOOD
SIM	SIMILAR
STN	STAINED
WD	WOOD



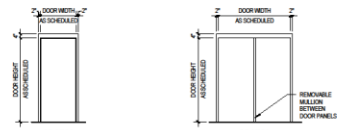
1 HOLLOW METAL DOOR FRAME THROAT SIZES
3" = 1'-0"



2 TYPICAL DOOR HARDWARE MOUNTING HEIGHTS
3/4" = 1'-0"



3 DOOR PANEL TYPE ELEVATIONS
1/4" = 1'-0"



4 HOLLOW METAL & WOOD FRAME TYPE ELEVATIONS
1/4" = 1'-0"

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4055 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
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PROJECT NUMBER: 19055.00
DATE: 07.30.2020

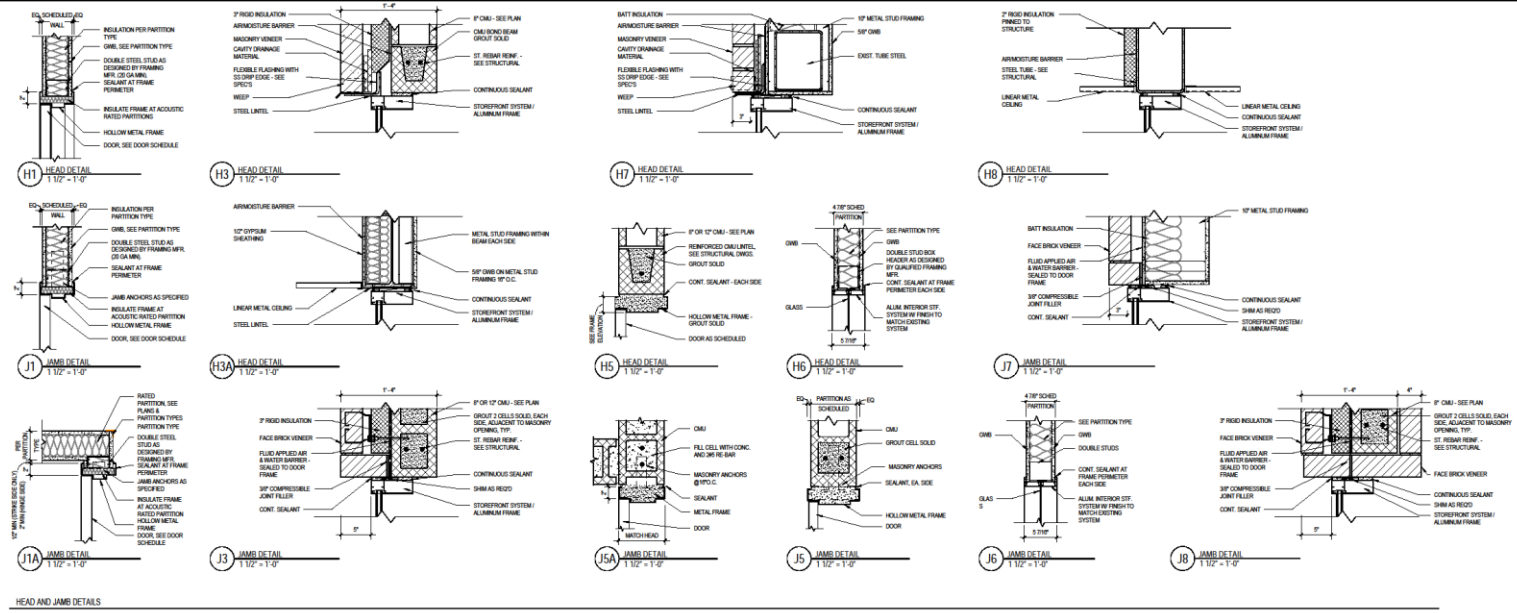
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

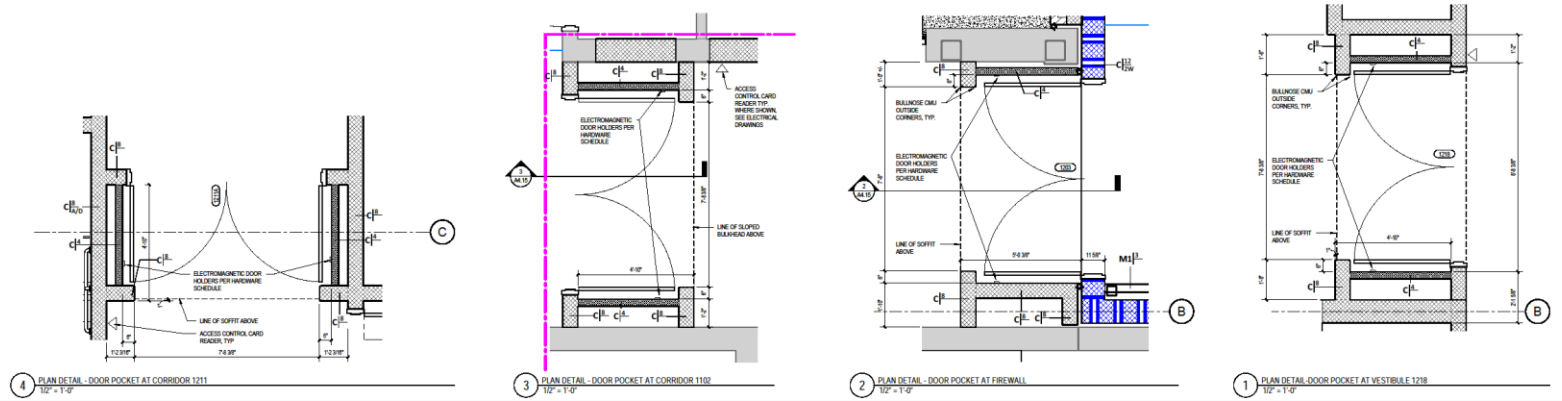
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

DOOR SCHEDULE

A7.00



HEAD AND JAMB DETAILS



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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

DOOR AND OPENING DETAILS

A7.01

B&W 360 /Haut Gap Middle School/Haut Gap ARCH_V19.rvt
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EXTERIOR GLAZING ELEVATIONS
1/4" = 1'-0"

NOTE: TAG TYPE DENOTES FRAMING TYPE
W PREFIX INDICATES ALUMINUM WINDOW

SF PREFIX INDICATES ALUMINUM STOREFRONT SYSTEM
CW PREFIX INDICATES ALUMINUM CURTAINWALL SYSTEM
ALL EXTERIOR GLAZING AND FRAMING SYSTEMS ARE IMPACT RESISTANT

EXTERIOR ALUMINUM FRAMED OPENINGS - BASIS OF DESIGN

BASIS OF DESIGN FOR EXTERIOR STOREFRONT SYSTEMS FOR ALL EXTERIOR STOREFRONT SYSTEMS AS FOLLOWS:

EFCO, 2.5" WIDTH BY 5" DEEP CENTER SET STOREFRONT SYSTEM WITH IMPACT GLAZING

GLAZING LEGEND

IG-1	1" INSULATED LOW-E
IG-1T	1" TEMPERED INSULATED LOW-E
GL-1	1/4" CLEAR FLOAT GLASS
GL-1T	1/4" CLEAR TEMPERED FLOAT GLASS
GL-2T	1/2" CLEAR TEMPERED FLOAT GLASS

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ARCHITECT/ENGINEER SEAL

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NO	DATE	DESCRIPTION

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Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

STOREFRONT AND WINDOW ELEVATIONS

A7.10

BIM 360://Haut Gap Middle School/Haut Gap_ARCH_V19.rvt
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1 LEVEL 1 FINISH PLAN
1/8" = 1'-0"

FINISH GRAPHIC LEGEND

SVT-1 SVT-2 SVT-3 SVT-4 SVT-5 PRT-1 CPT-1 CPT-2 RSF-1 SCF-1

SPECIALTY EQUIPMENT SCHEDULE

ITEM #	DESCRIPTION
SB	6'-0" INTERACTIVE WHITE BOARD
TB	8'-0" TACK BOARD
WB1	6'-0" WHITE BOARD
WB2	8'-0" WHITE BOARD WITH MUSIC STAFF LINES

GENERAL FINISH NOTES

1. PAINT ALL FERROUS METAL EXPOSED TO MOISTURE, EXCEPT PREFINISHED METAL.
2. PAINT ALL STEEL STAIR SURFACES EXPOSED TO VIEW OR MOISTURE.
3. PAINT ALL NEW EXTERIOR HOLLOW METAL FRAMES AND DOORS IN ACCORDANCE WITH THE PAINTING SPECIFICATIONS AND IN COLOR INDICATED.
4. AT ALL TRANSITIONS BETWEEN DIFFERENT FLOOR FINISH MATERIALS, INSTALL SILLS OR THRESHOLDS AND/OR TERMINATE MATERIALS AS INDICATED ON THE TYPICAL TERMINATIONS DETAIL LEGEND. SEE SHEET A0.32.
5. AT ALL MILLWORK BASE CABINETS, PROVIDE BASE AS SCHEDULE FOR ADJACENT WALLS LINO
6. REMOVE CURING COMPOUNDS FROM ALL CONCRETE SLABS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, PRIOR TO THE INSTALLATION OF ANY FLOOR FINISH MATERIALS.
7. MOISTURE TEST ALL NEW AND EXISTING CONCRETE SLABS ON GRADE PRIOR TO INSTALLATION OF ANY FLOOR FINISH MATERIALS. DO NOT INSTALL FINISHES UNLESS THE MOISTURE EMISSION RATE IS ACCEPTABLE TO THE FINISH MANUFACTURER AND MAINTAINS ALL WARRANTIES. PERFORM TESTS AS SPECIFIED. SCHEDULE SLAB POURS AND TESTS TO ALLOW PROPER CURING AND TESTING TIMES WITHOUT DELAYS TO THE OVERALL SCHEDULE.
8. ALL AREAS RECEIVING NEW FLOORING SHALL RECEIVE NEW BASE. SEE FINISH SCHEDULE AND LEGEND.

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CORPORATE SEAL

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECT
ARCHITECT/ENGINEER SEAL

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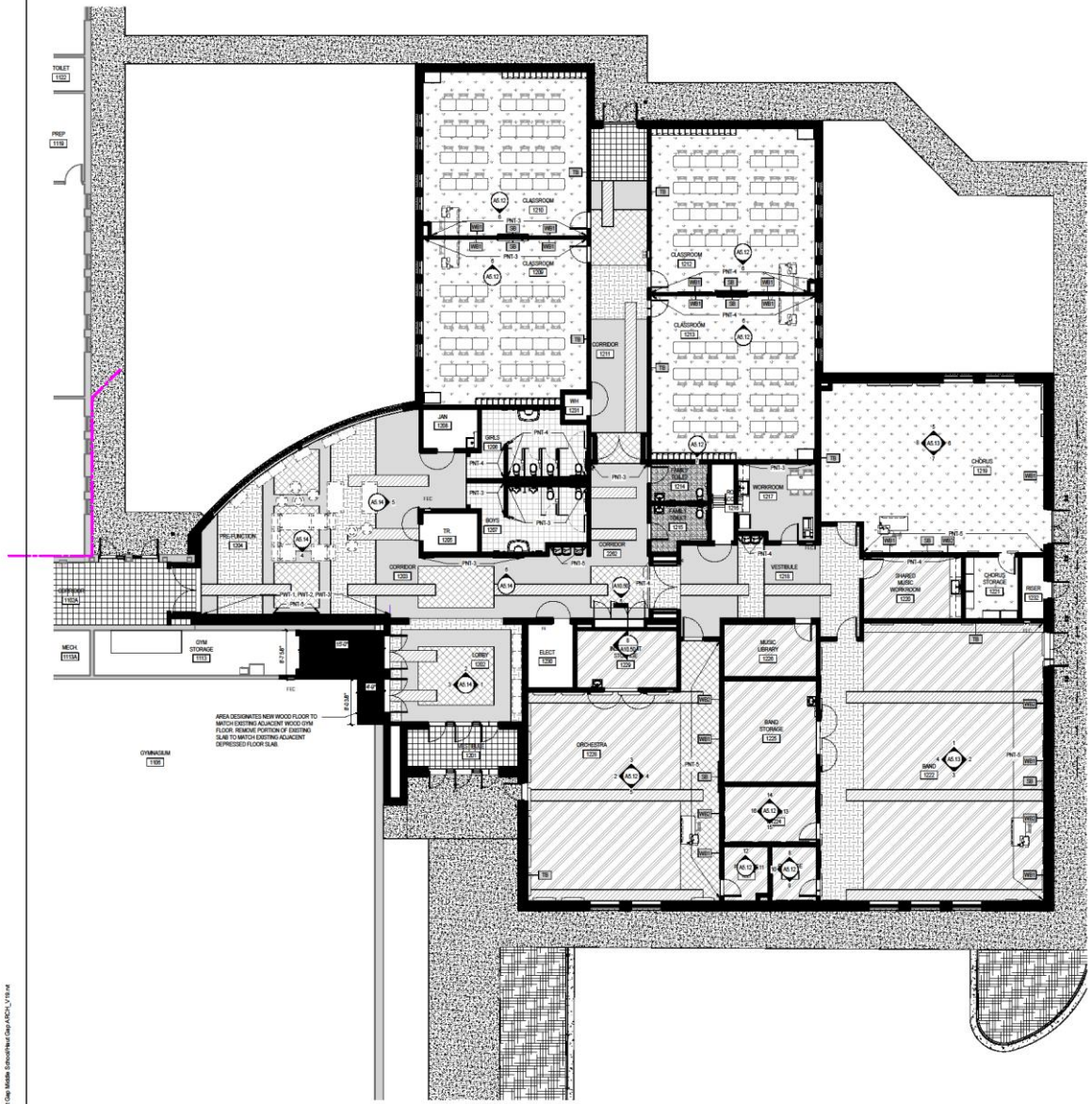
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 1 FINISH PLAN

A9.11



1 LEVEL 1 FINISH PLAN
1/8" = 1'-0"

GENERAL FINISH NOTES

1. PAINT ALL FERROUS METAL EXPOSED TO MOISTURE, EXCEPT PRETINISHED METAL.
2. PAINT ALL STEEL STAIR SURFACES EXPOSED TO VIEW OR MOISTURE.
3. PAINT ALL NEW EXTERIOR HOLLOW METAL FRAMES AND DOORS IN ACCORDANCE WITH THE PAINTING SPECIFICATIONS AND IN COLOR INDICATED.
4. AT ALL TRANSITIONS BETWEEN DIFFERENT FLOOR FINISH MATERIALS, INSTALL SILLS OR THRESHOLDS AND/OR TERMINATE MATERIALS AS INDICATED ON THE TYPICAL TERMINATIONS DETAIL LEGEND. SEE SHEET A5.02.
5. AT ALL MILLWORK BASE CABINETS, PROVIDE BASE AS SCHEDULE FOR ADJACENT WALLS UNO.
6. REMOVE CURING COMPOUNDS FROM ALL CONCRETE SLABS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS PRIOR TO THE INSTALLATION OF ANY FLOOR FINISH MATERIALS.
7. MOISTURE TEST ALL NEW AND EXISTING CONCRETE SLABS ON GRADE PRIOR TO INSTALLATION OF ANY FLOOR FINISH MATERIALS. DO NOT INSTALL FINISHES UNLESS THE MOISTURE EMISSION RATE IS ACCEPTABLE TO THE FINISH MANUFACTURER AND MAINTAINS ALL WARRANTIES. PERFORM TESTS AS SPECIFIED. SCHEDULE SLAB POURS AND TESTS TO ALLOW PROPER CURING AND TESTING TIMES WITHOUT DELAYS TO THE OVERALL SCHEDULE.
8. ALL AREAS RECEIVING NEW FLOORING SHALL RECEIVE NEW BASE. SEE FINISH SCHEDULE AND LEGEND.

SPECIALTY EQUIPMENT SCHEDULE

ITEM #	DESCRIPTION
SIB	8'-0" INTERACTIVE WHITE BOARD
TB	8'-0" TACK BOARD
WB1	8'-0" WHITE BOARD
WB2	8'-0" WHITE BOARD WITH MUSIC STAFF LINES

FINISH GRAPHIC LEGEND

SVT-1 SVT-2 SVT-3 SVT-4 SVT-5 PT-1 CPT-1 CPT-2 RSF-1 SCF-1

S&W
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CORPORATE SEAL

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ARCHITECT/ENGINEER SEAL

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 2 FINISH PLAN

A9.12

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FINISH LEGEND

CODE	DESCRIPTION	MANUFACTURER	PATTERN	COLOR	SIZE	COMMENTS
DIVISION 6 WOOD AND PLASTIC						
PLM-1	PLASTIC LAMINATE	FORMICA	9992-58	HARDROCK MAPLE		VERTICAL SURFACES
SSM-1	SOLID SURFACE MATERIAL	DUPONT	CORIAN	ABALONE		COUNTERS
DIVISION 9 FINISHES - CEILINGS						
ACB-1	ACOUSTIC CEILING BAFFLE	CONMED DESIGN SCAPES	RESPOND BAFFLE	WHITE	6' X 10" X 2"	PRE-FUNCTION
ACB-2	ACOUSTIC CEILING BAFFLE	CONMED DESIGN SCAPES	RESPOND BAFFLE	WHITE	7' X 10" X 2"	PRE-FUNCTION
ACB-3	ACOUSTIC CEILING BAFFLE	CONMED DESIGN SCAPES	RESPOND BAFFLE	WHITE	10' X 10" X 2"	PRE-FUNCTION
ACB-4	ACOUSTIC CEILING BAFFLE	CONMED DESIGN SCAPES	RESPOND BAFFLE	MATCH PNT-3	10' X 10" X 2"	PRE-FUNCTION
ACB-5	ACOUSTIC CEILING BAFFLE	CONMED DESIGN SCAPES	RESPOND BAFFLE	MATCH PNT-4	7' X 10" X 2"	PRE-FUNCTION
ACB-6	ACOUSTIC CEILING BAFFLE	CONMED DESIGN SCAPES	RESPOND BAFFLE	MATCH PNT-5	4' X 10" X 2"	PRE-FUNCTION
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	FINE FISSURED HIGH NRC	WHITE	24"x24"	.75 NRC
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	CALLA #2820	WHITE	24"x24"	.85 NRC WITH 4" OF SOUND BATTEN LAID ABOVE
ACT-3	ACOUSTIC CEILING TILE	ARMSTRONG	CALLA #2820	WHITE	24"x24"	.95 NRC
GYP-1	PAINTED GYP BOARD CEILING	SHERWIN WILLIAMS		WHITE		
DIVISION 9 FINISHES - FLOORS						
CPT-1	CARPET TILE, WALK OFF	INTERFACE	STEP REPEAT SR899	IRON	50CM x 50CM	
CPT-2	CARPET TILE	INTERFACE	DETOURS	104716 SLATE	50CM x 50CM	
PFT-1	PORCELAIN TILE	CROSSVILLE	ARGENT	GLACIER LAKE	12"X12"	
RSF-1	RESILIENT SHEET FLOORING	JOHNSONITE	ARIA 3.0	URBAN LEGEND 0673		SINGLE RESTROOMS
SCF-1	SEALED CONCRETE FLOOR	SHERWIN WILLIAMS		GRAY		
SVT-1	SOLID VINYL TILE	AMERICAN BILTRITE	TEXAS GRANITE	VTG-147 MISSION WHITE	12" X 12"	
SVT-2	SOLID VINYL TILE	AMERICAN BILTRITE	TEXAS GRANITE	VTG-152 WARM GREY	12" X 12"	
SVT-3	SOLID VINYL TILE	AMERICAN BILTRITE	TEXAS GRANITE	VTG-180 HERB	12" X 12"	
SVT-4	SOLID VINYL TILE	AMERICAN BILTRITE	TEXAS GRANITE	VTG-183 SKY BLUE	12" X 12"	
SVT-5	SOLID VINYL TILE	AMERICAN BILTRITE	TEXAS GRANITE	VTG-190 CAROLINA SAILING	12" X 12"	
DIVISION 9 FINISHES - WALLS						
AWP-1	ACOUSTIC WALL PANEL	CONMED DESIGN SCAPES	RESPOND A	GUILFORD OF MAINE - FR701 2100 - BALTIC 153	SEE SCHEDULE ON ELEVATIONS & ROF	
AWP-2	ACOUSTIC WALL PANEL	CONMED DESIGN SCAPES	RESPOND A	GUILFORD OF MAINE - FR701 2100 - CRYSTAL BLUE 175	SEE SCHEDULE ON ELEVATIONS & ROF	
AWP-3	ACOUSTIC WALL PANEL	CONMED DESIGN SCAPES	RESPOND A	GUILFORD OF MAINE - FR701 2100 - LEAF 755	SEE SCHEDULE ON ELEVATIONS & ROF	
AWP-4	ACOUSTIC WALL PANEL	CONMED DESIGN SCAPES	BARREL DIFFUSER	GUILFORD OF MAINE - FR701 2100 - GREY MIX 238	SEE SCHEDULE ON ELEVATIONS & ROF	
PNT-1	PAINT, OVERALL	SHERWIN WILLIAMS	MPI GLOSS LEVEL 3	SW7631 CITY LOFT		EPOXY PAINT IN ALL BATHROOM LOCATIONS
PNT-2	PAINT, TRIM	SHERWIN WILLIAMS	MPI GLOSS LEVEL 5	SW7508 TAVERN TAUPE		EPOXY PAINT IN ALL BATHROOM LOCATIONS
PNT-3	ACCENT PAINT	SHERWIN WILLIAMS	MPI GLOSS LEVEL 3	SW6710 MELANGE GREEN		EPOXY PAINT IN ALL BATHROOM LOCATIONS
PNT-4	ACCENT PAINT	SHERWIN WILLIAMS	MPI GLOSS LEVEL 3	SW6508 VAST SKY		EPOXY PAINT IN ALL BATHROOM LOCATIONS
PNT-5	ACCENT PAINT	SHERWIN WILLIAMS	MPI GLOSS LEVEL 3	SW6243 DISTANCE		EPOXY PAINT IN ALL BATHROOM LOCATIONS
PWT-1	PORCELAIN WALL TILE	DALTILE	NATURAL HUES	QH43 ATLANTIS	2" X 8"	
PWT-2	PORCELAIN WALL TILE	DALTILE	NATURAL HUES	QH68 STARLIGHT	2" X 8"	
PWT-3	PORCELAIN WALL TILE	DALTILE	NATURAL HUES	QH62 ICEBURG	2" X 8"	
DIVISION 9 FINISHES - BASES						
PTB-1	PORCELAIN TILE BASE	CROSSVILLE	ARGENT	GLACIER LAKE	12" X 12"	GROUT: LATICRETE RAVEN
RBS-1	RUBBER BASE	ARMSTRONG		BLACK		
DIVISION 10 - SPECIALTIES						
LKR-1	METAL LOCKERS	PENCO		622 REGAL BLUE	SEE ELEVATION	

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FINISHES WALLS	CEILINGS	FLOORS	WALL BASE	COMMENTS	REV.
LEVEL 1							
1102A	CORRIDOR	PNT-1	N/A	CTP-1	RBS-1		
1143	CORRIDOR	PNT-1	ACT-1	SVT-1, CPT-1	RBS-1	EXISTING WING	
1149	CLASSROOM	PNT-1, PNT-5	ACT-1	CPT-2	RBS-1	EXISTING WING	
1150	CONFERENCE	PNT-1, PNT-5	ACT-1	CPT-2	RBS-1	EXISTING WING	
1150C	RESOURCE	PNT-1, PNT-4	ACT-1	CPT-2	RBS-1	EXISTING WING	
1201	VESTIBULE	PNT-1	GYP-1	CPT-1	RBS-1		
1202	LOBBY	PNT-1	ACT-1	SVT-2, SVT-3, SV-4, SVT-5	RBS-1		
1203	CORRIDOR	PNT-1	ACT-1	SVT-2, SVT-3, SVT-4, SVT-5	RBS-1		
1204	PRE-FUNCTION	PNT-1, PNT-5, PWT-1, PWT-2, PWT-3	ACT-1	SVT-2, SVT-3, SV-4, SVT-5	RBS-1		
1205	TR.	PNT-1	N/A	SCF-1	RBS-1		
1206	GIRLS	PNT-1, PNT-4	ACT-1	PFT-1	PTB-1		
1207	BOYS	PNT-1, PNT-3	ACT-1	PFT-1	PTB-1		
1208	JAN	PNT-1	N/A	SCF-1	RBS-1		
1209	CLASSROOM	PNT-1, PNT-3	ACT-1	CPT-2	RBS-1		
1210	CLASSROOM	PNT-1, PNT-3	ACT-1	CPT-2	RBS-1		
1211	CORRIDOR	PNT-1	ACT-1	SVT-2, SVT-3, SV-4, SVT-5	RBS-1		
1212	CLASSROOM	PNT-1, PNT-4	ACT-1	CPT-2	RBS-1		
1213	CLASSROOM	PNT-1, PNT-4	ACT-1	CPT-2	RBS-1		
1214	FAMILY TOILET	PNT-1	ACT-1	RSF-1	RBS-1		
1215	FAMILY TOILET	PNT-1	ACT-1	RSF-1	RBS-1		
1216	ROOF ACCESS	PNT-1	N/A	SCF-1	RBS-1		
1217	WORKROOM	PNT-1, PNT-3	ACT-1	SVT-2	RBS-1		
1218	VESTIBULE	PNT-1, PNT-4	ACT-1	SVT-2, SVT-3, SV-4, SVT-5	RBS-1		
1219	CHORUS	PNT-1, PNT-5	ACT-1	CPT-2	RBS-1		
1220	SHARED MUSIC WORKROOM	PNT-1, PNT-4	ACT-1	SVT-1	RBS-1		
1221	CHORUS STORAGE	PNT-1	ACT-1	SVT-1	RBS-1		
1222	BAND	PNT-1, PNT-5	ACT-1	SVT-1, SVT-4, SVT-5	RBS-1		
1223	PRACTICE	PNT-1	ACT-1	SVT-1	RBS-1		
1224	PRACTICE	PNT-1	ACT-1	SVT-1	RBS-1		
1225	BAND STORAGE	PNT-1	ACT-1	SVT-1	RBS-1		
1226	MUSIC LIBRARY	PNT-1	ACT-1	SVT-1	RBS-1		
1227	PRACTICE	PNT-1	ACT-1	SVT-1	RBS-1		
1228	ORCHESTRA	PNT-1, PNT-5	ACT-1	SVT-1, SVT-3, SVT-5	RBS-1		
1229	INSTRUMENT STORAGE	PNT-1	ACT-1	SVT-1	RBS-1		
1230	ELECT.	PNT-1	N/A	SCF-1	RBS-1		
1231	WH	PNT-1	N/A	SCF-1	RBS-1		
1232	RISER	PNT-1	N/A	SCF-1	RBS-1		
2262	CORRIDOR	PNT-1, PNT-3, PNT-4, PNT-5	ACT-1	SVT-2, SVT-3, SV-4, SVT-5	RBS-1		

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STEVENS & WILKINSON OF SOUTH CAROLINA, INC. COLUMBIA SC 27915 REGISTERED ARCHITECTURE

CORPORATE SEAL

STATE OF SOUTH CAROLINA LINDA R. SHOEMAKER 5621 REGISTERED ARCHITECT

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

FINISH LEGEND, SCHEDULE AND DETAILS

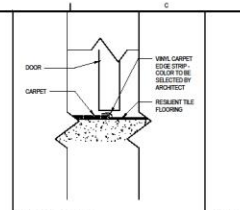
A9.31

BIM 360://Haut Gap Middle School/Haut Gap_ARCH_V19.rvt
7/30/2020 1:55:35 PM

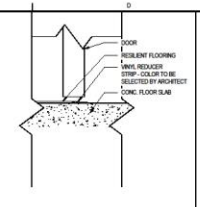
FLOORING TRANSITION DETAIL LEGEND							
	CARPET	PORCELAIN TILE	RESILIENT TILE	WOOD FLOORING	CONCRETE	EXTERIOR	RESILIENT SHEET
CARPET	–	N/A	T2	N/A	–	T5	N/A
PORCELAIN TILE	N/A	–	T4	–	–	–	–
RESILIENT TILE	T2	T4	–	T6	T2	T3	T8
WOOD FLOORING	T1	–	T5	–	T9	T7	–
CONCRETE	–	–	T4		–	T6	–
EXTERIOR	T5	–	T3	–	–	–	–
RESILIENT SHEET	–	–	T8	–	–	–	–

NOTE:
AT ALL TRANSITIONS BETWEEN FLOOR MATERIALS, INSTALL SILLS OR THRESHOLDS, AND OR TERMINATION MATERIALS AS INDICATED ON THESE DRAWINGS OR AS OTHERWISE RECOMMENDED BY MANUFACTURER'S WRITTEN INSTRUCTIONS.

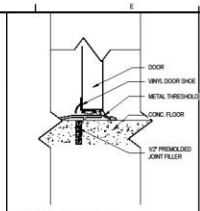
1 TRANSITION - DETAIL LEGEND
1" = 1'-0"



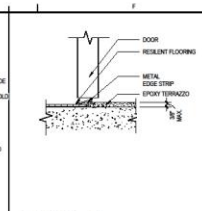
2 T1-CPT TO SVT
3" = 1'-0"



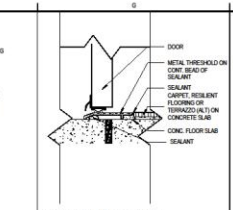
3 T2-SVT TO CONC
3" = 1'-0"



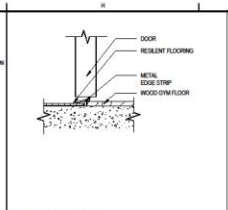
4 T3-EXTERIOR DOOR
3" = 1'-0"



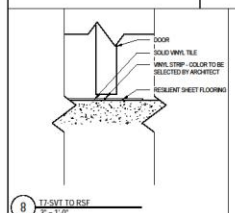
5 T4 - SVT TO TILE
3" = 1'-0"



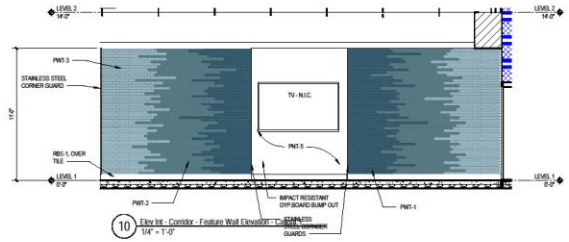
6 T5-EXTERIOR TO CTP/TILE
3" = 1'-0"



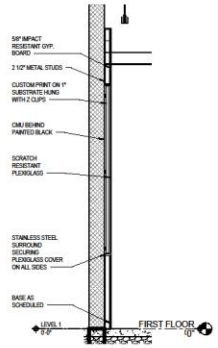
7 T6 - SVT TO WOOD
3" = 1'-0"



8 T7-SVT TO RSF
3" = 1'-0"



10 Elev Int - Corridor - Feature Wall Elevation - T...
1/4" = 1'-0"



11 Interior Detail - Bulldog Logo Section
1/2" = 1'-0"

TEACHING WALLS NOTES AND LEGEND	
IWB6	6' INTERACTIVE WHITE BOARD
WB6	6' WHITE BOARD

1. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. COORDINATE FINAL LOCATION OF TEACHING WALL WITH OWNER.
3. MOBILE WHITEBOARDS TO BE INCLUDED IN FURNITURE.
4. PROVIDE ALL BLOCKING NECESSARY - COORDINATE WITH MANUFACTURER.

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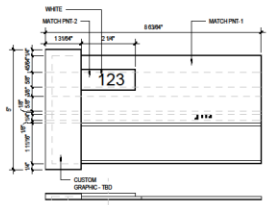
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

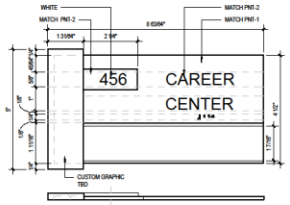
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

FINISH TRANSITIONS AND DETAILS

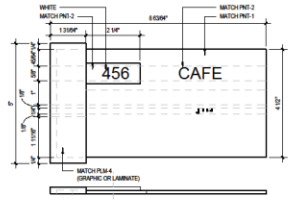
A9.32



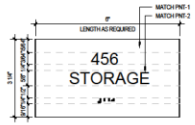
3 TYPE A - TYP OFFICE/CLASSROOM
6" = 1'-0"



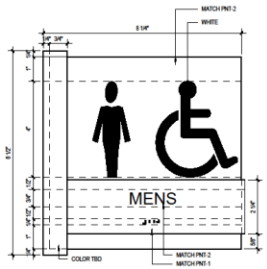
4 TYPE B - NON CLASSRM W/ NAME TAG
6" = 1'-0"



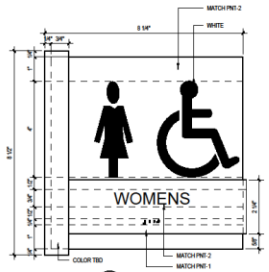
5 TYPE C - NON CLASSRM
6" = 1'-0"



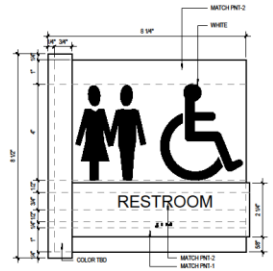
6 TYPE D - STORAGE/ELECTRICAL
6" = 1'-0"



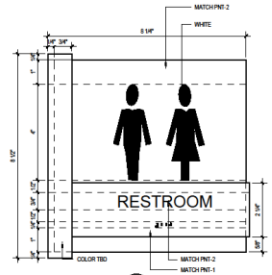
7 TYPE E - MENS ACCESSIBLE RR
6" = 1'-0"



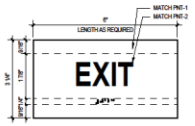
8 TYPE F - WOMENS ACCESSIBLE RR
6" = 1'-0"



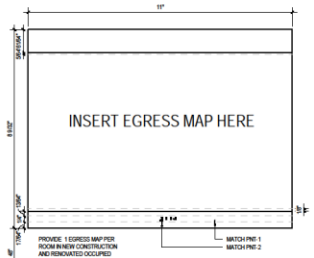
9 TYPE G - UNISEX ACCESSIBLE RR
6" = 1'-0"



10 TYPE H - UNISEX RR (NOT ACCESSIBLE)
6" = 1'-0"



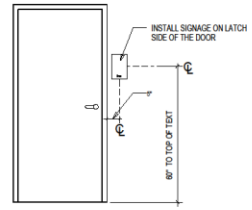
11 TYPE X - ADA BRAILLE EXIT SIGN
6" = 1'-0"



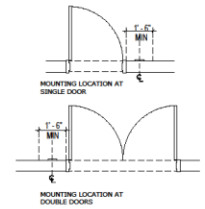
12 TYPE K - EGRESS MAP
6" = 1'-0"

13 TYPE Z - EXTERIOR SECURITY WINDOW SIGNAGE
6" = 1'-0"

*NOTE:
IN ADDITION TO EXTERIOR SECURITY WINDOW SIGNAGE, GENERAL CONTRACTOR TO PROVIDE BUILDING IDENTIFICATION SIGNAGE WHERE INDICATED ON EXTERIOR BUILDING ELEVATIONS. NUMBERS SHALL BE RED, 8" HIGH x 1" WIDE ON A 24" HIGH WHITE REFLECTIVE BACKING CONFORMING TO CCSD GUIDELINES. CONFIRM EXACT MOUNTING LOCATION, NUMBERING AND FORMAT WITH OWNER'S SECURITY DIRECTOR PRIOR TO SIGN FABRICATION.



2 MOUNTING HEIGHT
3" = 1'-0"



1 MOUNTING DETAIL
3/8" = 1'-0"

BIM 360://Haut Gap Middle School/Haut Gap_ARCH_V18.rvt
7/30/2020 2:06:27 PM

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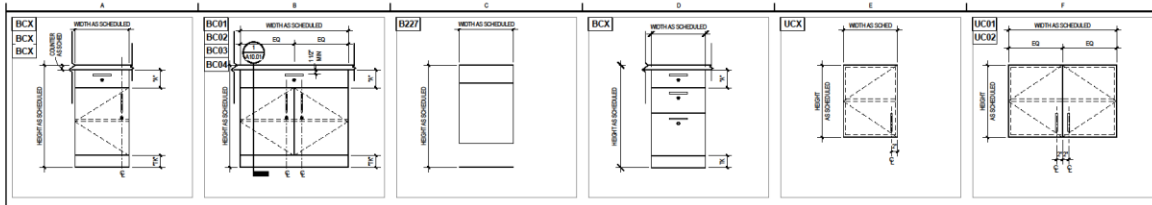
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

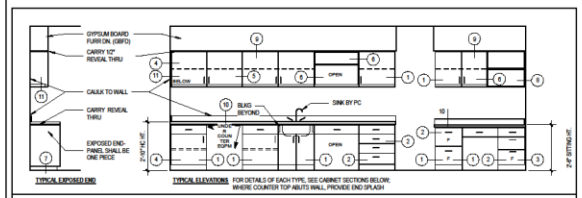
SIGNAGE

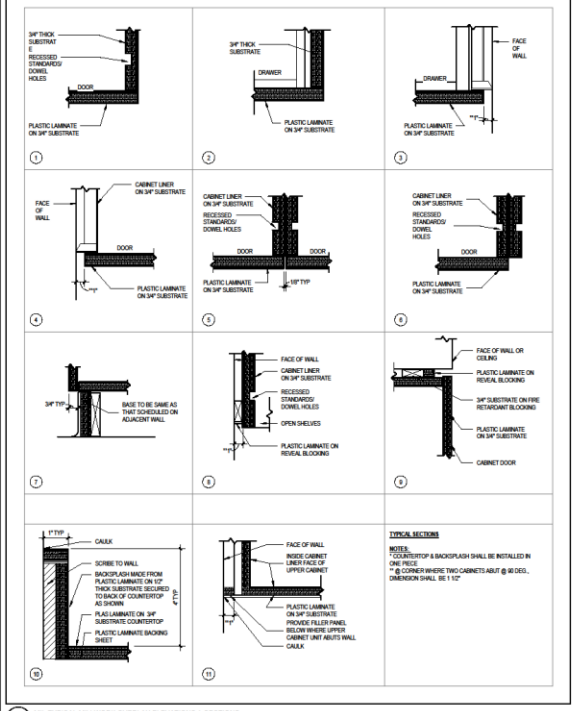
A9.40



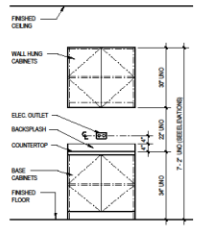
2 BASE CABINET TYPE ELEVATIONS
3/4" = 1'-0"

1 UPPER CABINET TYPE ELEVATIONS
3/4" = 1'-0"

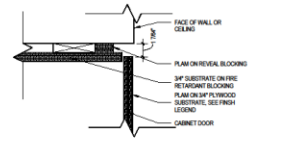




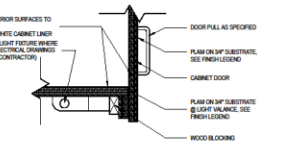
A4 MIL-TYPICAL MILLWORK OVERLAY ELEVATIONS & SECTIONS
1 1/2" = 1'-0"



A6 OUTLETS AT CASEWORK
1/2" = 1'-0"



B5 CABINET @ SOFFIT DETAIL
3" = 1'-0"



B6 CABINET @ DOOR DETAIL
3" = 1'-0"

CD - Casework- Base Cabinets

Type Mark	Family	Overall Dimensions Width	Height	Depth	Comments
BCD1	Base Cabinet-Double Door & 2 Drawer	42"	32"	24"	
BCD3	Base Cabinet-Double Door & 2 Drawer	33"	32"	24"	
BCD2	Base Cabinet-Double Door Sink Unit	42"	32"	24"	
BCD4	Base Cabinet-Double Door Sink Unit	36"	32"	24"	

CD - Casework- Upper Cabinets

Type Mark	Family	Overall Dimensions Width	Height	Depth	Comments
UCD3	Upper Cabinet-Double Door-Wall	33"	30"	12"	
UCD4	Upper Cabinet-Double Door-Wall	36"	15"	12"	
UCD1	Upper Cabinet-Double Door-Wall	42"	30"	12"	
UCD2	Upper Cabinet-Double Door-Wall	42"	15"	12"	

CD - Tall Storage Schedule

Type Mark	Family	Type	Overall Dimensions Width	Height	Depth	Comments
S101	Utility_Shelving_15075	Utility Shelving 36"w x 18"d x 84"h 2	36"	84"	18"	OPEN METAL SHELVING - BOD PENCO

GENERAL CASEWORK NOTES

1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL INFORMATION.
2. ALL CASEWORK WITH SINK TO BE LOCKABLE. COORDINATE WITH OWNER FOR OTHER LOCATIONS OF LOCKABLE CABINETS.
3. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF 0 OUTLETS ABOVE COUNTER TOPS.
4. PROVIDE FILLER PANELS, MAX. 3" WIDTH, AT ALL LOCATIONS WHERE CASEWORK FACES ARE TO BE INSTALLED ALONG ADJACENT RETURN WALL SURFACES.
5. FURNITURE SHOWN IN DASHED IS OWNER FURNISHED, OWNER INSTALLED. SHOWN ONLY FOR COORDINATION PURPOSES.
6. COORDINATE GROMMET LOCATION AND QUANTITY IN ALL COUNTERTOPS WITH OWNER.

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CORPORATE SEAL

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■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19355.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT
excellence is our standard

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

MILLWORK TYPES AND DETAILS

A10.00

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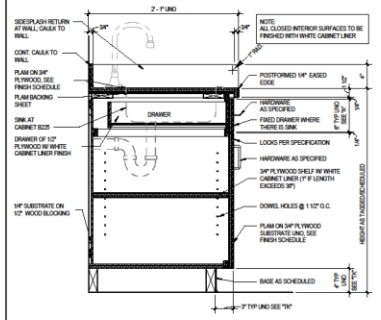
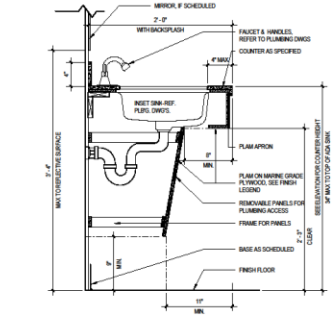
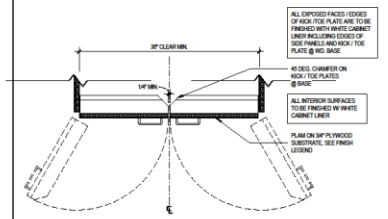


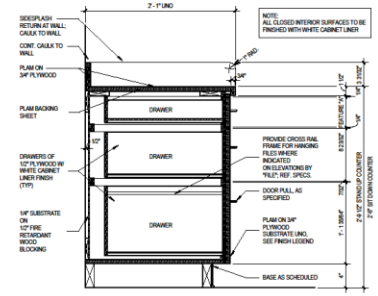
1 BASE CABINET W/ DRAWER & DOOR
1 1/2" = 1'-0"



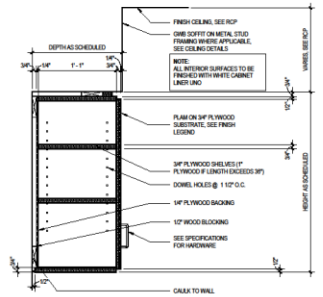
2 SINK CABINET DETAIL
1 1/2" = 1'-0"



5 PLAN DETAIL @ ADA ACCESSIBLE SINK
1 1/2" = 1'-0"



6 BASE CABINET W/ 3 DRAWERS
1 1/2" = 1'-0"



4 UPPER CABINET CLOSED SHELVING
1 1/2" = 1'-0"

GENERAL CASEWORK NOTES

1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL INFORMATION.
2. ALL CASEWORK WITH SINK TO BE LOCKABLE. COORDINATE WITH OWNER FOR OTHER LOCATIONS OF LOCKABLE CABINETS.
3. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF G.F.I.U.TLETS ABOVE COUNTER TOPS.
4. PROVIDE FILLER PANELS, MAX. 3" WIDTH, AT ALL LOCATIONS WHERE CASEWORK FACES ARE TO BE INSTALLED ALONG ADJACENT RETURN WALL SURFACES.
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CORPORATE SEAL

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■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

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□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19055.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

MILLWORK SECTIONS & DETAILS

A10.01

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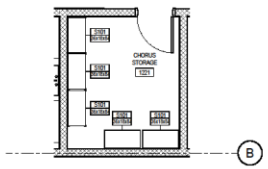
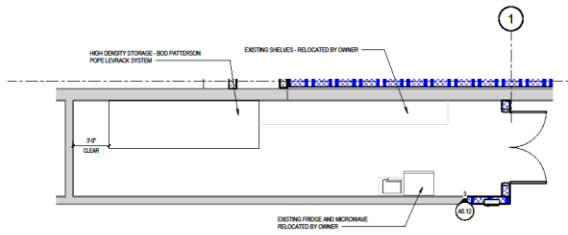
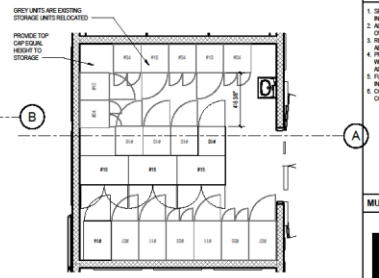


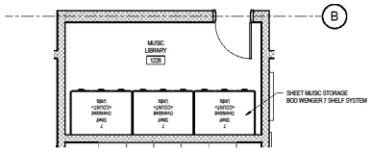
9 ENLARGED PLAN - 1219 CHORUS STORAGE
1/4" = 1'-0"



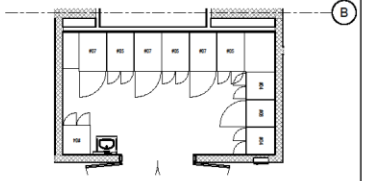
6 ENLARGED PLAN - 1113 GYM STORAGE
1/4" = 1'-0"



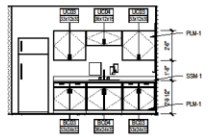
1 ENLARGED PLAN - 1222 BAND STORAGE
1/4" = 1'-0"



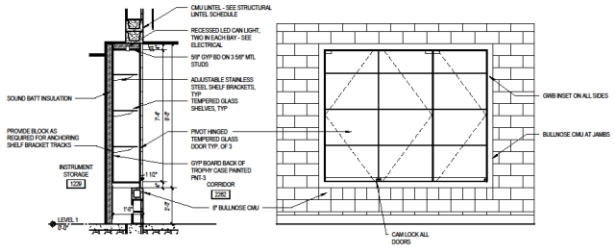
7 ENLARGED PLAN - 1226 MUSIC LIBRARY
1/4" = 1'-0"



2 ENLARGED PLAN - 1228 ORCHESTRA STORAGE
1/4" = 1'-0"

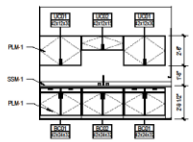


3 CASEWORK ELEVATION - RM 1217 WORK ROOM
1/4" = 1'-0"



8 TROPHY CASE SECTION
3/8" = 1'-0"

5 TROPHY CASE ELEVATION
3/8" = 1'-0"



4 CASEWORK ELEVATION - RM 1220 SHARED WORK ROOM
1/4" = 1'-0"

GENERAL CASEWORK NOTES

1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL INFORMATION.
2. ALL CASEWORK WITH SINK TO BE LOCKABLE. COORDINATE WITH OWNER FOR OTHER LOCATIONS OF LOCKABLE CABINETS.
3. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF G.U.T.LETS ABOVE COUNTER TOPS.
4. PROVIDE FILLER PANELS, MAX. 3" WIDTH, AT ALL LOCATIONS WHERE CASEWORK FACES ARE TO BE INSTALLED ALONG ADJACENT RETURN WALL SURFACES.
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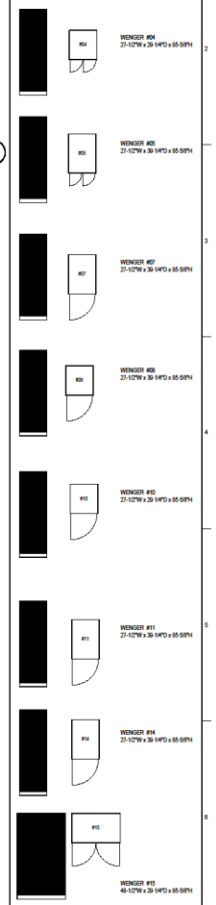
6. COORDINATE GROMMET LOCATION AND QUANTITY IN ALL COUNTERTOPS WITH OWNER.

MUSIC STORAGE LEGEND



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ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

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PROJECT NUMBER: 19055.00
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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

CASEWORK ELEVATIONS & STORAGE ROOM PLANS

A10.50

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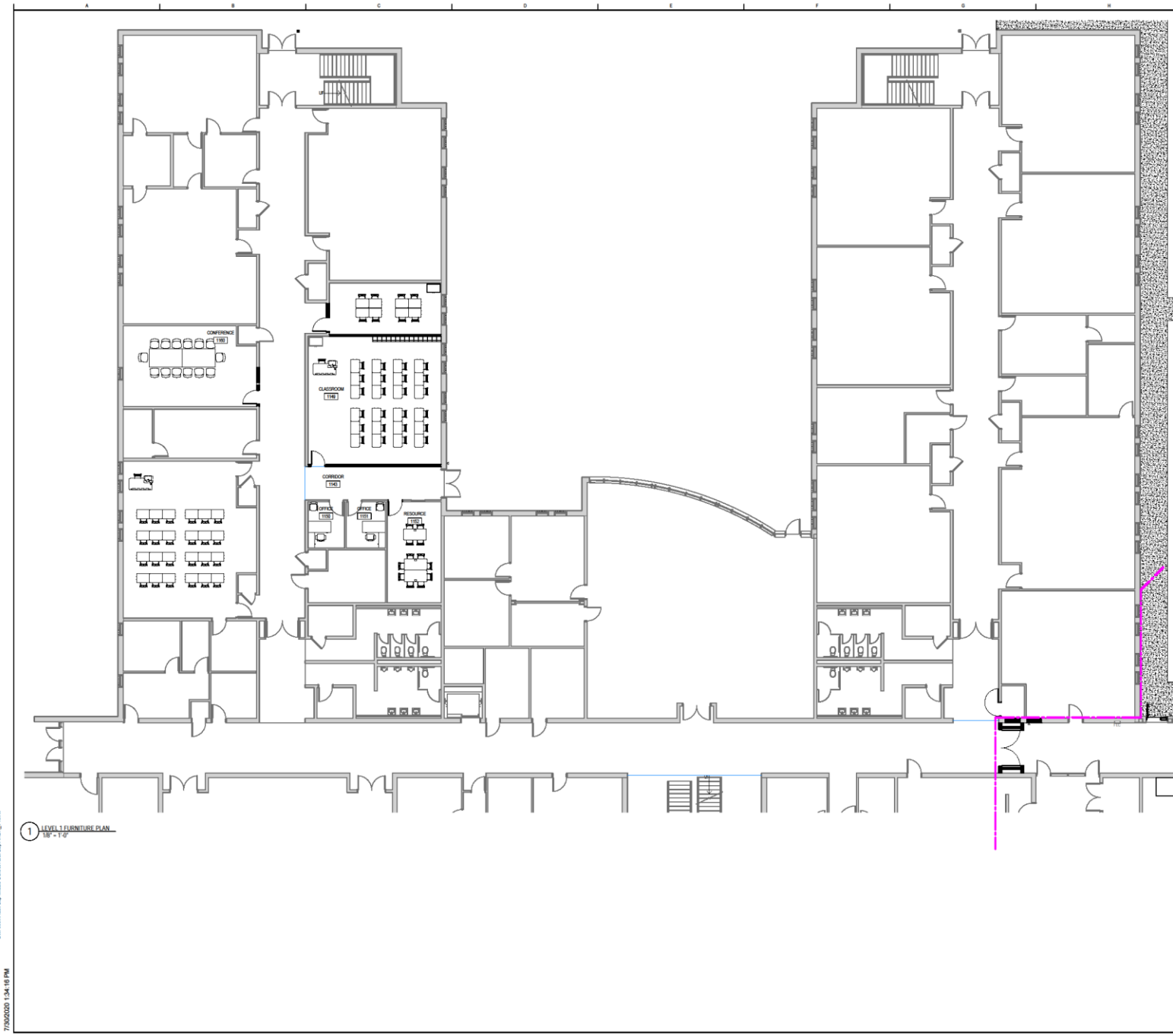

1 LEVEL 1 FURNITURE PLAN
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 1 FURNITURE PLAN (For Reference Only)

I1.11

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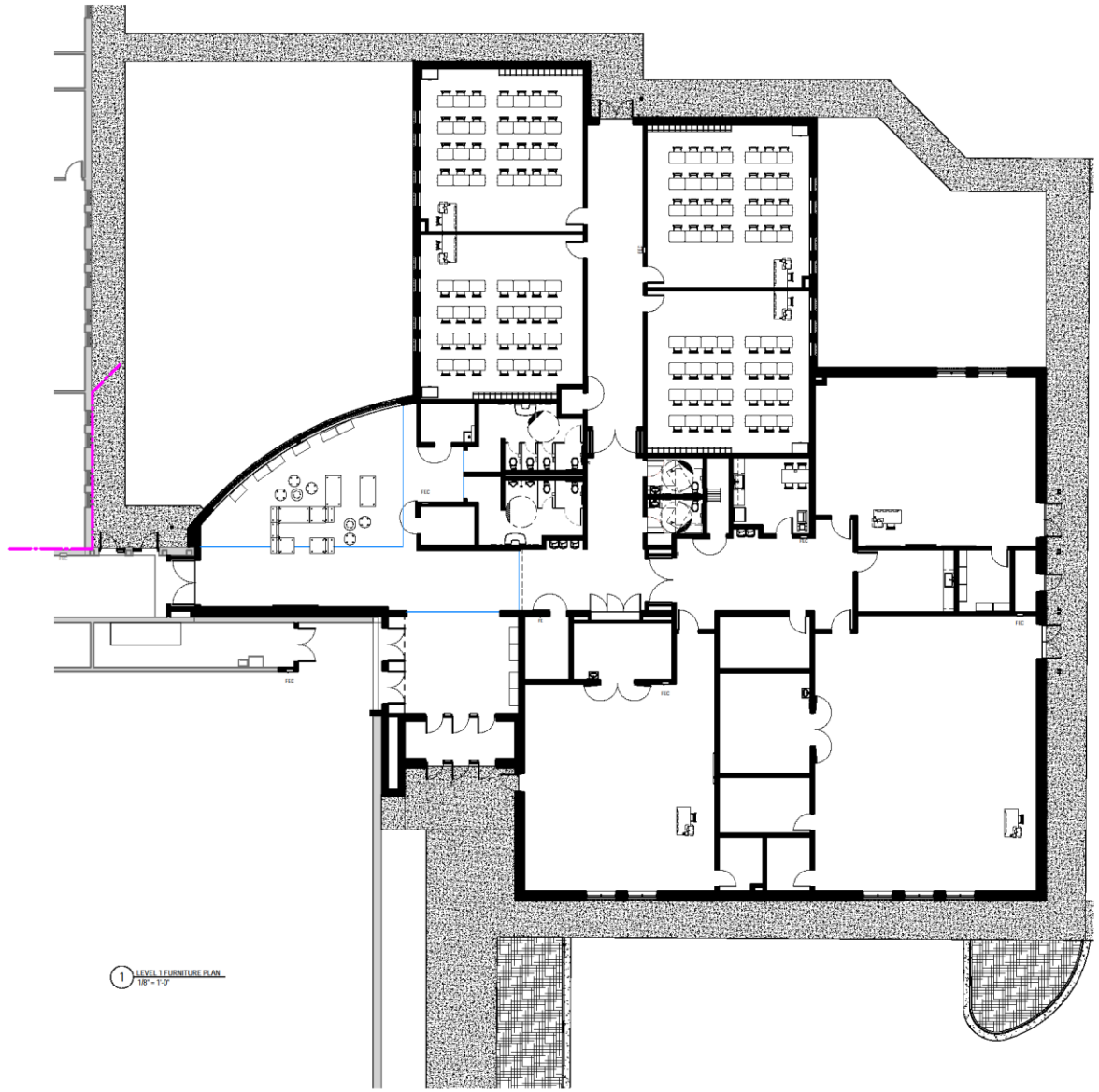

1 LEVEL 1 FURNITURE PLAN
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 2 FURNITURE PLAN (For Reference Only)

I1.12

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GENERAL NOTES

1.0 THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS AND MATERIALS INDICATED ON THE DRAWINGS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING, AND SHORING, ETC.

1.1 COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS.

1.2 THE CONTRACTOR SHALL REFER TO THE ARCHITECURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS, ETC. NOT HEREIN INDICATED.

1.3 SLAB OPENINGS SMALLER THAN 10" AND NOT INDICATED ON PLAN SHALL BE CORE DRILLED IN FIELD U.N.O. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF THESE OPENINGS.

1.4 WORK NOT INCLUDED ON THE DRAWINGS BUT IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES ELSEWHERE ON THE DRAWINGS SHALL BE REPEATED.

1.5 IN CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

1.6 SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS. PROVIDE COMPRESSIBLE FIRESAFING AT TOP OF WALL AS REQUIRED.

2.0 FOUNDATION NOTES

2.1 GEOTECHNICAL INFORMATION FOR THIS PROJECT WAS TAKEN FROM THE GEOTECHNICAL SUBSURFACE EXPLORATION, DATED 10/29/19, AND REVISED 3/06/20 PERFORMED BY ECS SOUTHEAST.

2.2 SEE THE SPECIFICATION REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB ON GRADE SUBGRADE INCLUDING COMPACTION PROCEDURES.

2.3 EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOM TEMPORARILY LINED WITH 6 MIL POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF THE EXCAVATION OF THE FOOTING.

2.4 FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE GENERAL CONTRACTOR BEFORE FURTHER CONSTRUCTION IS ATTEMPTED. SEE PROJECT SPECIFICATIONS.

2.5 NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.

2.6 SEE PLUMBING, ELECTRICAL & CIVIL DRAWINGS FOR REQUIRED UNDERSLAB UTILITIES.

2.7 SEE SPECIFICATIONS FOR ALL WATERPROOFING DETAILS AND MATERIALS AS REQUIRED.

2.8 IF UNDERMINING OF FOOTING OCCURS, FILL VOIDS WITH 2500 PSI CONCRETE. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.

2.9 EARTHQUAKE DRAINS SHALL BE INSTALLED PER THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND TO THE REQUIREMENTS NOTED IN THE SPECIFICATIONS FOR LIQUEFACTION MITIGATION.

3.0 CONCRETE

3.1 CONCRETE SHALL HAVE THE UNIT WEIGHT AND THE MINIMUM COMPRESSIVE STRENGTHS (f'c) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE. (DWG S0.03) SEE SPECIFICATIONS FOR FURTHER INFORMATION.

3.2 ENTRAIN AIR TO PRODUCE TOTAL AIR CONTENT ACCORDING TO THE SPECIFICATIONS. FOR CONCRETE EXPOSED TO FREEZING TEMPERATURES (EXTERIOR FOOTINGS, SLAB TURNDOWNS, EXTERIOR SLABS AND SLABS-ON-GRADE, EXTERIOR RETAINING WALLS, AND EXTERIOR GRADE BEAMS.)

3.3 GROUT FOR BASE PLATES SHALL BE NON-SHRINKABLE GROUT AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI, U.N.O.

3.4 NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

3.5 MIXING, TRANSPORTING AND PLACING OF CONCRETE SHALL CONFORM TO ACI-301.

3.6 ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301, AND CONTRACT SPECIFICATIONS. WHEN THERE IS A CONFLICT BETWEEN ACI AND SPECIFICATIONS, THE MORE STRINGENT SHALL GOVERN.

3.7 CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH ¾" X 45 DEGREE CHAMFER U.N.O.

3.8 CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60 U.N.O. REINFORCING BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT, UNLESS INDICATED ON THE CONTRACT DOCUMENTS. ALL LAP SPLICES SHALL BE CLASS "B" U.N.O.

3.9 HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED WITH A CLASS B TENSION SPLICE AT CORNERS AND INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.

3.10 SLABS-ON-GRADE SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS CAN BE USED AT CONTROL JOINT LOCATIONS AT CONTRACTORS OPTION. SEE SLAB PLANS & JOINT DETAILS FOR ADDITIONAL INFORMATION.

3.11 SEE SPECIFICATIONS FOR ALL WATERPROOFING/DAMPROOFING DETAILS.

3.12 ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A-185. SUPPLY IN FLAT SHEETS.

3.13 ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.

3.14 SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

3.15 ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.

3.16 ALL DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, U.N.O. ON DRAWINGS.

3.17 ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN ON THE DRAWINGS.

3.18 SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES.

3.19 THE CONTRACTOR SHALL COORDINATE ADDITIONAL WALL/SLAB OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.

3.20 U.N.O., ALL CURBS SHALL BE REINFORCED WITH AT LEAST 1 #4 CONTINUOUS AND #4 AT 12' O.C. DOWELS TO STRUCTURE BELOW.

3.21 THE SUB-CONTRACTOR SHALL VERIFY ALL OPENINGS, PAD SIZES, AND ANCHOR BOLTS WITH EQUIPMENT SELECTED.

3.22 FOR ALL WALLS & PIERS, PROVIDE DOWELS INTO FOOTING AT EACH VERT. REINF. BAR, U.N.O. DOWEL SIZE SHALL BE SAME AS VERT. REINF.

3.23 ALL DEFORMED BAR ANCHORS SHALL BE TRS NELSON DIVISION OR EQUAL ¾" DIA. U.N.O. CONFORMING TO ASTM A-496 WITH A MINIMUM TENSILE STRENGTH OF 80,000 PSI. ANCHOR DIMENSIONS SHALL BE IN ACCORDANCE WITH ASTM D-19. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BY AUTOMATIC END WELDING AS INDICATED ON THE DRAWINGS. NO UNAUTHORIZED OR FIELD WELDING SHALL BE MADE WITHOUT AUTHORIZATION FROM THE MANUFACTURER.

3.24 ALL REINFORCING INDICATED TO BE WELDED SHALL BE IN ACCORDANCE WITH ASTM A706, "LOW ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT". ANY INSTALLATIONS USING MANUFACTURER'S EQUIPMENT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

3.25 WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH AWS D1.4

3.26 PROVIDED CONCRETE POUR STOPS OR FORM AS REQUIRED FOR INSTALLATION OF ALL CONCRETE WORK.

3.27 PROVIDE ADDITIONAL 2-#4 x 3-0" REINFORCING BARS IN SLAB-ON-GRADE AT ALL RE-ENTRANT CORNERS. PLACE BARS AT MID-DEPTH OF SLAB WITH A CLEARANCE OF 2" FROM CORNER U.N.O.

3.28 CONSTRUCTION TOLERANCES FOR CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 117, "SPECIFICATIONS FOR TOLERANCE FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY" FOR CIP CONCRETE.

4.0 CONCRETE MASONRY

4.1 MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF THESE CONTRACT DOCUMENTS AND THE PROJECT SPECIFICATIONS.

4.2 THE SPECIFIED ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE MASONRY (f'm) ON THE NET AREA IS A MINIMUM OF 1500 PSI.

4.3 PROVIDE TWO #5 BARS CONTINUOUS IN ALL BOND BEAMS, UNLESS OTHERWISE INDICATED IN THE DRAWINGS. REINFORCEMENT PLACED IN BOND BEAMS SHALL BE CONTINUOUS WITH STANDARD ACI HOOKS AT EACH END. PROVIDE STANDARD BAR SPLICES AS SPECIFIED. MAXIMUM BOND BEAM SPACING SHALL BE 4'-0" O.C. U.N.O.

4.4 PROVIDE VERTICAL REINFORCEMENT IN ALL WALLS AS SHOWN. PROVIDE VERTICAL BARS AT EACH END OF ALL WALLS AS SHOWN. PROVIDE VERTICAL BARS ON EACH SIDE OF OPENINGS IN ALL WALLS AS SHOWN. PROVIDE STANDARD BAR SPLICES AS SPECIFIED. ALL VERTICAL REINFORCEMENT EXTENDS FULL HEIGHT OF WALL. SEE TYPICAL MASONRY DETAIL DWG. S5.01 AND OTHER SECTIONS AND DETAILS AS INDICATED ON DRAWINGS.

4.5 BLOCK CELLS THAT REQUIRE VERTICAL REINFORCING BARS AS INDICATED ON THE CONTRACT DRAWINGS AND/OR SPECS SHALL BE PLACED IN CENTERS OF BLOCK CELLS U.N.O. PROVIDE #4 BAR AT 40" O.C. VERTICAL REINFORCING BARS AT ALL INTERIOR NON-STRUCTURAL, CMU WALLS U.N.O.

4.6 PROVIDE JOINT REINFORCEMENT AS INDICATED IN THE SPECIFICATIONS AND ON THE ARCHITECTURAL DRAWINGS.

4.7 PROVIDE CONTROL JOINTS AT MAJOR CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, AT FLOOR CONTROL JOINTS, AT WALL OPENINGS, AND NEAR RETURN ANGLES OF L, T, AND U SHAPED STRUCTURES. CONTROL JOINT SPACING SHALL NOT EXCEED THE DISTANCES INDICATED ON THE ARCHITECTURAL DRAWINGS.

4.8 GROUT FOR MASONRY SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. GROUT SHALL CONFORM TO ASTM C476. GROUT LIFTS SHALL NOT EXCEED 4'-0".

4.9 FILL ALL BOND AND LINTEL BEAMS AND CELLS AT VERTICAL REINFORCEMENT WITH GROUT.

4.10 USE MORTAR TYPE AS INDICATED IN THE SPECIFICATIONS.

4.11 ALL CELLS, OPEN CAVITIES, AND AIR SPACES BELOW GRADE SHALL BE GROUTED.

4.12 BOND BEAMS AND REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS U.N.O. MAXIMUM CONTROL JOINT SPACING SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

4.13 CONTRACTOR SHALL COORDINATE LOCATION OF ALL OPENINGS. SEE ARCH., MECH., ELEC., AND PLUMBING DWGS. FOR SIZE AND LOCATION OF OPENINGS, SEE DRAWINGS FOR TYPICAL MASONRY SECTIONS AND DETAILS.

4.14 MASONRY WALLS SHALL NOT BE BACK FILLED PRIOR TO THE MORTAR AND GROUT ATTAINING THEIR RESPECTIVE MAXIMUM DESIGN STRENGTHS PER SPECIFICATIONS.

5.0 STEEL DECK

5.1 STEEL DECK SHALL BE ASTM A446 HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI AS PER THE STEEL DECK INSTITUTE DESIGN MANUAL.

5.2 STEEL DECK SHALL BE ERECTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND ERECTION LAYOUTS AND CONNECTED TO SUPPORTING MEMBERS AS INDICATED BELOW.

5.3 ROOF DECK

5.3.1 STEEL ROOF DECK SHALL BE 1 1½", 22 GAGE GALVANIZED (UNPAINTED) TYPE B WIDE RIB (S.D.I. TYPE WR 22) U.N.O.

5.3.2 ROOF DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

	22 GAGE
MOMENT OF INERTIA, Ip	0.155 IN^4/FT WIDTH
MOMENT OF INERTIA, In	0.183 IN^4/FT WIDTH
SECTION MODULUS (TOP OF DECK), Sn	0.182 IN^3/FT WIDTH
SECTION MODULUS (BOT. OF DECK), Sp	0.186 IN^3/FT WIDTH

IN ADDITION TO MEETING THE MINIMUM REQUIREMENTS ABOVE, THE DECK MANUFACTURER SHALL DESIGN THE ROOF DECK AND ATTACHMENTS TO STEEL FOR THE ROOF LOADS, INCLUDING DECK UPLIFT. ALL ROOF DECK SHALL HAVE A MINIMUM 3-SPAN CONDITION.

5.3.3 ROOF DECK SHALL BE ATTACHED TO SUPPORTS WITH #12 TEK SCREWS IN THE BOTTOM OF THE FLUTES USING A S.D.I. 36/7 PATTERN U.N.O. DECK SIDELAPS SHALL BE FASTENED USING #10 SCREWS WITH A MINIMUM 5-SIDE LAPS CONNECTIONS PER SPAN. ALL ENDLAPS SHALL BE A MINIMUM OF 2" AND SHALL OCCUR OVER SUPPORTS. MINIMUM DIAPHRAGM SHEAR STRENGTH Q = 400 PLF U.N.O.

5.3.4 DO NOT SUSPEND PIPES, DUCTS, OR CEILING FROM ROOF DECK.

6.0 STRUCTURAL STEEL

6.1 STRUCTURAL STEEL ROLLED SHAPES AND PLATES SHALL CONFORM TO THE MATERIAL INFORMATION SCHEDULE ON SHEET S0.03. DIMENSIONS AND PROPERTIES SHALL BE IN ACCORDANCE TO ASTM A6.

6.2 ANCHOR BOLTS SHALL CONFORM TO ASTM A36, OR A307 U.N.O.

6.3 CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL BE ¾" DIA A325-N, U.N.O. AND SHALL CONFORM TO ASTM A325; NUTS SHALL CONFORM TO ASTM A563; WASHERS SHALL CONFORM TO ASTM F436. CONNECTION BOLTS SHALL HAVE A HARDENED WASHER PLACED UNDER THE ELEMENT TO BE TIGHTENED.

6.4 DETAILING OF STRUCTURAL STEEL CONNECTIONS MUST BE CONSISTENT WITH RECOGNIZED, PUBLISHED METHODS SUCH AS IN THE AISC "MANUAL OF STEEL CONSTRUCTION", CURRENT EDITION; "ENGINEERING FOR STEEL CONSTRUCTION", OR "VOLUME II CONNECTIONS MANUAL OF STEEL CONSTRUCTION."

6.5 SECTION A7 OF AISC CURRENT EDITION IS AMENDED SUCH THAT THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL CONNECTIONS.

6.6 SEE DWG. S4.01 FOR STANDARD FRAMING CONNECTIONS. STRUCTURAL STEEL CONNECTIONS SHALL BE DETAILED BY THE CONTRACTOR IN ACCORDANCE WITH THE AISC "MANUAL OF STEEL CONSTRUCTION-ALLOWABLE STRESS DESIGN", CURRENT EDITION. CONNECTIONS SHALL BE DESIGNED TO DEVELOP A MINIMUM END REACTION OF 15.0 KIPS.

6.7 ALL CONNECTIONS FOR BEAMS WHICH SUPPORT A CONCRETE SLAB (COMPOSITE BEAMS) SHALL BE DESIGNED USING THE END REACTION SHOWN ON THE FRAMING PLANS OR NOTE 6.5 ON S0.01.

6.8 U.N.O. AS THUS, [###] EITHER IN PLAN OR IN THE BEAM REACTION TABLES, CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR THE END REACTION DETERMINED FROM PART 2 - "ALLOWABLE UNIFORM LOAD TABLES" FROM THE AISC MANUAL OF STEEL CONSTRUCTION - ASD CURRENT EDITION OR A MINIMUM OF 15 KIPS, WHICHEVER IS GREATER.

6.9 ALL MEMBERS AND CONNECTIONS ON THE CONTRACT DRAWINGS AND CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT SHOWN SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA DETAILED AND SUBMITTED FOR APPROVAL AND SHOWN ON THE SHOP DRAWINGS.

6.10 ALTERNATIVE CONNECTION DETAILS MAY BE SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR ONLY IF ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS PREPARED AND SEALED BY AN ENGINEER, LICENSED IN THE STATE OF SOUTH CAROLINA AND SUBMITTED FOR APPROVAL.

6.11 CALCULATIONS FOR DETAILS MUST SHOW A RATIONAL ANALYSIS OF A COMPLETE LOAD PATH, INCLUDING LOCAL EFFECTS ON WEBS, FLANGES, ETC. OF THE CONNECTED MEMBERS AND THE DEVICES (PLATES, SEATS, BRACKETS, BOLTS, WEBS, ETC) AFFECTING ALL CONNECTIONS. FAILURE TO SUBMIT SUCH CALCULATIONS FOR REVIEW CONCURRENT WITH SHOP DRAWING ERECTION PLANS AND DETAILS WILL BE CAUSE FOR RESUBMITTAL.

6.12 ALL SHEAR TAB CONNECTIONS SUBMITTED AS AN ALTERNATE FOR APPROVAL SHALL BE DESIGNED USING A FLEXIBLE SUPPORT CONDITION.

6.13 BEAM AND GIRDER CONNECTIONS SHALL BE DESIGNED SUCH THAT ALL ADDITIONAL STRESSES DUE TO CONNECTION ECCENTRICITY SHALL BE DEVELOPED BY THE CONNECTION AND NOT INCDUCE ANY ADDITIONAL STRESSES INTO SUPPORTING MEMBERS.

6.14 STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" (CURRENT EDITION), AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (CURRENT EDITION).

6.15 WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE AWS D1.1. ELECTRODES FOR SHOP AND FIELD WELDS SHALL BE CLASS E70XX. ALL WELDING SHALL BE DONE BY QUALIFIED, CERTIFIED WELDERS PER THE ABOVE STANDARD.

6.16 SHOP AND FIELD TESTING OF WELDS AND BOLTS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.

6.17 ALL WELDS NOT INDICATED SHALL BE A MINIMUM OF 1/4" ALL AROUND U.N.O.

6.18 THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

6.19 FOR FLOOR AND ROOF OPENINGS, THE FABRICATOR SHALL VERIFY OPENING LOCATIONS WITH EQUIPMENT SELECTED AND MAKE ANY NECESSARY MODIFICATIONS AT NO ADDITIONAL COST. THE CONTRACTOR SHALL COORDINATE MECHANICAL UNITS AND OPENINGS & ARCHITECTURAL ITEMS REQUIRED FOR COMPLETE INSTALLATION OF WORK. IT IS THE RESPONSIBILITY OF FABRICATOR TO RECEIVE ALL NECESSARY INFORMATION PRIOR TO FABRICATION OF THE STEEL.

6.20 ALL STRUCTURAL STEEL WITH IS TO BE SPRAYED WITH FIREPROOFING SHALL NOT BE PRIMED OR PAINTED. STEEL WHICH IS NOT SPRAYED WITH FIREPROOFING SHALL BE PRIMED AND PAINTED PER SPECIFICATIONS. FOR STEEL BEAMS THAT ARE PRIMED, THE TOP FLANGE RECEIVING STEEL STUDS SHALL NOT BE PRIMED PAINTED.

6.21 ALL PLATES NOT INDICATED SHALL BE 5/16" MIN. THICKNESS. ALL ANGLES NOT INDICATED SHALL BE 5/16" MIN THICKNESS WITH GEOMETRY AS REQUIRED.

6.22 SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN. SEE DWG. S4.01 FOR TYPICAL FRAMING DETAILS.

6.23 FOR ARCHITECTURAL WELDS PROVIDE 3/16" FILLET OR STITCH WELD 2" LONG AT 12" O.C. U.N.O. MIN. WHERE WELDS ARE PERMANENTLY EXPOSED TO VIEW PROVIDE CONTINUOUS WELD IN ACCORDANCE WITH NOTE 6.17.

8.0 STEEL JOISTS

8.1 THE DETAILING, FABRICATION AND ERECTION OF STEEL JOISTS SHALL CONFORM TO THE LATEST STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. JOISTS SHALL EXTEND TO WITHIN 5"/8" OF CENTERLINE OF SUPPORTING BEAMS AT ABUTING JOISTS SPANS AND AT LEAST 2" PAST CENTERLINE OF SUPPORTING BEAMS ELSEWHERE AND IN ANY CASE JOIST ENDS SHALL BEAR A MINIMUM OF 2 1/2" ON STEEL SUPPORTS AND SHALL BE ANCHORED WITH A MINIMUM OF TWO 3/16"x1" FILLET WELDS (OR BOLTED CONNECTION) AND A MINIMUM OF 4" ON MASONRY OR CONCRETE SUPPORTS, BEARING ON A STEEL PLATE. BRIDGING SHALL BE AS SHOWN ON PLANS AS A MINIMUM AND WELDED TO INSIDE OF TOP AND BOTTOM CHORDS AND ANCHORED IN ACCORDANCE WITH SJI SPECIFICATIONS AT THEIR ENDS. EXTEND TOP AND BOTTOM CHORDS AS REQUIRED.

8.2 WHERE BOTTOM CHORD EXTENSIONS ARE REQUIRED, ALL DEAD LOADS SHALL BE IN PLACE PRIOR TO ATTACHMENT OF BOTTOM CHORD TO ADJACENT MEMBER.

8.3 FOR CONCENTRATED LOADS GREATER THAN 200 LBS ON JOIST, NOT FALLING DIRECTLY OVER A JOIST CHORD PANEL POINT, PROVIDE WEB REINFORCING ANGLES FROM THE SUPPORT POINT TO A BOTTOM CHORD PANEL POINT. USE L 2x2x3/16" OF EACH SIDE OF JOIST AND USE 3/16" FILLET WELD OR LEAST THICKNESS OF MATERIAL USED (WHICHEVER IS LESS), U.N.O. MAXIMUM POINT LOAD NOT TO EXCEED 500 LBS U.N.O.

8.4 WHERE JOISTS ARE ADJACENT TO WIDE FLANGE BEAMS, ALL LINES OF BRIDGING SHALL BE ANCHORED TO THE WIDE FLANGE BEAMS.

8.5 ALL ROOF JOISTS SHALL BE PROVIDED WITH SINGLE LINES OF BOTTOM CHORD BRIDGING FOR UPLIFT AT FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOIST, FOR CLARITY, THIS BRIDGING IS NOT SHOWN ON THE ROOF FRAMING PLANS.

8.6 THE CAMBER FOR STEEL JOISTS SHALL BE AS SPECIFIED BY JOIST MANUFACTURER TO SUSTAIN THE LOADS AND CONDITIONS AS SPECIFIED.

8.7 STEEL JOISTS FOR ROOFS SHALL BE DESIGNED FOR A NET UPLIFT AS SPECIFIED. ADDITIONAL BRIDGING MAY BE ADDED IF REQUIRED BY STEEL JOIST MANUFACTURER.

8.8 OPENINGS FOR DUCTS, VENTS, MECHANICAL EQUIPMENT, ETC. ARE TO BE FRAMED PER DWG. S4.01 UNLESS OTHERWISE SHOWN. MECHANICAL CONTRACTOR TO PROVIDE EXACT SIZES AND LOCATIONS FOR OPENINGS TO BE COORDINATED BY THE JOIST FABRICATOR.

8.9 STEEL JOIST SIZES INDICATED ARE BASED UPON THE GRAVITY LOADS REQUIRED. SPECIAL JOISTS OR JOISTS OF LARGER SIZES SHALL BE PROVIDED AS REQUIRED BY THE STEEL JOIST MANUFACTURER TO ACCOMMODATE SITUATIONS AND LOADS INDICATED ON THE DRAWINGS, SUCH AS HANGER LOADS, UPLIFT LOADS, WIND LOADS, CHORD EXTENSION LOADS, ETC. ALL JOIST SIZES SHOWN ON DRAWINGS ARE GIVEN AS MINIMUM AND SHALL MEET THE MINIMUM UNIFORM LOAD CARRY CAPACITIES AS SPECIFIED BY THE STEEL JOIST INSTITUTE. STEEL JOISTS DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA.

8.10 JOISTS SHALL BE DESIGNED FOR LOAD REVERSAL AS REQUIRED.

8.11 JOISTS SHALL BE DESIGNED FOR CONCENTRATED LOADS APPLIED CONCURRENTLY WITH THE APPLICABLE LOAD CONDITIONS INCLUDING ROOF LIVE LOADS. BOTTOM CHORD PANEL POINTS SHALL BE DESIGNED FOR MAXIMUM HANGER LOADS OF 500 LBS APPLIED AT ANY PANEL POINT.

8.12 ALL STEEL JOISTS SHALL BE PRIMED UNLESS FIREPROOFED.

8.13 ALL BRIDGING SHOWN IS THE MINIMUM REQUIRED.

8.14 MINIMUM JOIST SEAT END BEARING BOUNDARY SHEAR "Q" = 400 LF U.N.O. ALL K-SERIES JOIST SEATS SHALL BE 2 1/2" MIN. U.N.O. ALL LH-SERIES JOIST SEATS SHALL BE 5" MIN. U.N.O.

8.15 JOIST REACTIONS THRU SEAT ARE TO BE APPLIED AT THE CENTER OF CMU WALLS SO THAT IT DOES NOT CREATE AN ECCENTRIC LOADING CONDITION. (TYP)

9.0 BRICK OR CMU LEDGE ANGLES/PLATES

9.1 ALL LEDGES SHALL BE ½" MIN THICKNESS AND SHALL EXTEND TO WITHIN 1" U.N.O. OF OUTSIDE FACE OF WALL.

9.2 ALL LEDGES SHALL BE DISCONTINUOUS AT CONTROL AND EXPANSION JOINTS.

9.3 ALL LEDGES EXPOSED TO WEATHER SHALL BE GALVANIZED.

9.4 ALL LEDGES SHALL BE FIELD WELDED, TO ACCOMMODATE VARIATIONS IN SWEEP, CAMBER, THICKNESS OF MORTAR JOINTS, CONSTRUCTION TOLERANCES, DEFLECTION OF MEMBERS DURING PLACEMENT OF DEAD LOAD, ETC, TO ENSURE PROPER ALIGNMENT AND PLACEMENT OF LEDGES WITH BRICK AND CMU MORTAR JOINTS, CONTROL & EXPANSION JOINTS, FINISHED FLOOR ELEVATIONS, ETC. ALL BENT PLATE LEDGES ARE INDICATED TO BE ONE PIECE. THE SUBCONTRACTOR SHALL VERIFY AND COORDINATE ALL CONDITIONS (INCLUDING COORDINATION WITH THE BRICK MASONRY CONTRACTOR) TO ENSURE PROPER INSTALLATION OF WORK. ANY MODIFICATIONS REQUIRED FOR COMPLETION OF WORK WILL BE AT NO ADDITIONAL COST TO THE OWNER.

10.0 LIGHTGAUGE STEEL FRAMING NOTES

10.1 ALL MEMBER DESIGN, SIZES AND NOMENCLATURE, ETC. WHERE SHOWN ON DRAWINGS ARE BASED ON STEEL STUD MANUFACTURERS ASSOCIATIONS (SSMA) PRODUCT TECHNICAL INFORMATION UTILIZING AISI 1996 COLD FORMED STEEL DESIGN MANUAL. ANY VARIATION FROM SSMA INFORMATION REQUIRES AN APPROVAL WITH COMPLETE TECHNICAL DATA, INCLUDING PROFILES, DESIGN CALCULATIONS, ETC. STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE BUILDING IS TO BE CONSTRUCTED.

10.2 ALL STUDS, TRACKS AND JOISTS OF 18, 16, 14 OR 12 GAUGE TO BE CORROSION RESISTANT A653 CLASS 1 WITH A YIELD STRENGTH OF 50,000 PSI.

10.3 ALL STUDS, TRACKS AND JOISTS OF 20 OR 22 GAUGE TO BE CORROSION RESISTANT A653 GRADE 33, WITH A YIELD STRENGTH OF 33,000 PSI.

10.4 ALL BRIDGING AND CONNECTION PIECES TO BE CORROSION RESISTANT A653 GRADE 33, WITH A YIELD STRENGTH OF 33,000 PSI.

10.5 STUD AND JOISTS CONNECTIONS TO STUDS AND JOISTS THAT ARE TO BE WELDED SHALL BE BY AWS LIGHT GAUGE CERTIFIED WELDERS. MIN. WELD LENGTH SHALL BE 1". ALL WELDS SHALL BE WIRE BRUSHED AND COATED WITH A ZINC RICH PRIMER OR GALVANIZING REPAIR PRODUCT.

10.6 USE THREE (3) STUDS (MINIMUM U.N.O.) AT CORNERS OF ALL EXTERIOR WALLS AND USE 2 FULL HEIGHT STUDS EA. SIDE OF OPENINGS.

10.7 WHEN SCREWS ARE USED FOR CONNECTIONS, THE MINIMUM SPACING IS 3/4" AND 1/2" FOR CLEARANCE TO MEMBER EDGE.

10.8 TRACK, BRIDGING AND CONNECTION PIECES TO BE WELDED OR SCREWED USING SELF TAPPING S-12 SCREWS, MIN. NO. 8.

10.9 ATTACHMENT OF TRACK OR CONNECTION PIECES TO CONCRETE SHALL BE AS SHOWN ON DESIGN DRAWINGS.

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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

GENERAL NOTES

S0.01

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GENERAL NOTES (CONTINUED):

10.10 LATERAL BRIDGING SHALL BE PROVIDED WHERE SHOWN, AS A MINIMUM. CONNECT BRIDGING TO METAL STUDS.

10.11 NO SPLICES ARE ALLOWED IN STUDS OR JOISTS. SPLICES IN TRACK OR CONTINUOUS CONNECTION PIECES SHALL SUPPLY THE FULL STRENGTH OF THE MEMBER STUDS.

10.12 NO SPLICES ARE ALLOWED IN STUDS OR JOISTS. SPLICES IN TRACK OR CONTINUOUS CONNECTION PIECES SHALL SUPPLY THE FULL STRENGTH OF THE MEMBER SPLICED.

10.13 ALL MEMBERS ARE TO BE INSTALLED PLUMB, LEVEL OR IN LINE WITH THE SLOPE OF THE STRUCTURE.

10.14 DURING CONSTRUCTION, TEMPORARY ERECTION BRACING, SHORING AND/OR SUPPORTS SHALL BE PROVIDED AS REQUIRED TO INSURE STRUCTURAL STABILITY UNTIL ALL STRUCTURAL COMPONENTS ARE PROPERLY INSTALLED, ALIGNED AND SECURED.

10.15 LIGHT GAGE STEEL MEMBERS SIZES SHOWN ON DWGS. ARE MINIMUM SIZES. GENERAL CONTRACTOR SHALL OBTAIN ENGINEER TO DESIGN ALL LIGHT GAGE STEEL FRAMING SHOWN ON STRUCTURAL AND ARCHITECTURAL DRAWINGS. SHOP DRAWINGS AND CALCULATIONS SEALED BY ENGINEER REGISTERED IN SOUTH CAROLINA SHALL BE SUBMITTED FOR APPROVAL FOR ALL FRAMING.

10.16 MAXIMUM DEFLECTION SHALL NOT EXCEED L/600 FOR BRICK VENEER AND L/360 OTHERWISE. (SEE SPECS FOR ADDITIONAL INFORMATION.)

11.0 METAL WALKWAY COVERS AND CANOPIES

11.1 DESIGN CALCULATIONS SHOWING ALL INPUT DATA AND REACTIONS SHALL BE SUBMITTED FOR REVIEW WITH THE METAL WALKWAY COVER/CANOPY SHOP DRAWINGS. ALL CALCULATIONS SHALL HAVE THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA, ALL FRAME REACTIONS TO BE FURNISHED TO ARCH / ENGINEER.

11.2 ALL METAL WALKWAY COVER/CANOPY COMPONENTS SHALL BE DESIGNED BASED ON THE SPECIFICATIONS AND ON THE FOLLOWING LOADS AND CRITERIA:
DEAD LOADS:
FRAME, ROOFING AND PURLINS - PER MANUFACTURER.
ADDITIONAL COLLATERAL LOADS:
4 PSF U.N.O.
LIVE LOADS:
20 PSF WITH STANDARD BUILDING CODES TRIBUTARY AREA LIVE LOAD REDUCTION ALLOWED U.N.O.
WIND:
PER IBC 2018 AND AMENDMENTS LISTED ABOVE AND 157 MPH WIND VELOCITY.
SEISMIC:
PER IBC 2018 AND AMENDMENTS LISTED ABOVE WITH COEFFICIENTS AND CATEGORIES GIVEN THE DESIGN LOADS AND CRITERIA NOTES.

12.0 ANCHORING TO CONCRETE

12.1 EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF ONE OF THE FOLLOWING ANCHOR TYPES. ANCHORS SHALL BE BY HILTI, SIMPSON STRONG-TIE, POWERS FASTENERS, OR A MANUFACTURER WITH EQUAL PRODUCTS AS REFERENCED IN THE CONSTRUCTION DOCUMENTS. PROVIDED ANCHORS SHALL HAVE PROPER TESTING AND ACCREDITATION BY ICC FOR THEIR INTENDED USE.

a. ANCHORAGE TO CONCRETE
i. ADHESIVE ANCHORS FOR USE WITH CRACKED AND UNCRACKED CONCRETE.
ii. MEDIUM DUTY MECHANICAL ANCHORS FOR USE WITH CRACKED AND UNCRACKED CONCRETE.
iii. HEAVY DUTY MECHANICAL ANCHORS FOR USE WITH CRACKED AND UNCRACKED CONCRETE.

b. REBAR DOWELING INTO CONCRETE
i. ADHESIVE ANCHORS FOR USE WITH CRACKED AND UNCRACKED CONCRETE.

c. ANCHORAGE TO SOLID GROUTED MASONRY
i. ADHESIVE ANCHORS
ii. MECHANICAL ANCHORS

d. ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY
i. ADHESIVE ANCHORS WITH ASSOCIATED MESH NETTING AND GROUTING

12.2 SEE DRAWINGS FOR THE TYPE, SIZE, LOCATION AND MINIMUM EMBEDMENT DEPTH OF ANCHORS.

12.3 MINIMUM EDGE DISTANCE AS SHOWN OR IMPLIED IN THE CONSTRUCTION DRAWINGS SHALL BE MET.

12.4 INSPECTIONS OF POST-INSTALLED ANCHORS SHALL BE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF IBC AS SHOWN IN THESE CONSTRUCTION DOCUMENTS.

12.5 ANCHOR CAPACITY FOR THE SELECTED ANCHORS SHALL BE COMPATIBLE WITH THE ANCHORAGE CAPACITY LISTED FOR THE REFERENCED PRODUCT IN THE CONSTRUCTION DOCUMENTS. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED THRU THE SUBMITTAL PROCESS BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS OR DOCUMENTATION DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE REFERENCED PRODUCT. SUBSTITUTIONS SHALL BE EVALUATED BY THEIR HAVING AN ICC-ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY AND APPROPRIATE INSTALLATION INSTRUCTIONS.

12.6 ADHESIVE ANCHORS SELECTED ARE ASSUMED TO BE INSTALLED AFTER THE CONCRETE HAS BEEN CURED AND REACHED ITS 28-DAY SPECIFIED COMPRESSIVE STRENGTH. THE CONTRACTORS SHALL BE RESPONSIBLE FOR SELECTING AN APPROPRIATE ANCHOR FOR A SUBSTITUTION REQUEST (SEE NOTE 5 ABOVE) IF THE CONCRETE HAS NOT YET REACHED ITS 28-DAY SPECIFIED COMPRESSIVE STRENGTH AT THE TIME OF INSTALLATION.

12.7 INSTALL ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. POST-INSTALLED ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI). INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS.

12.8 ADHESIVE ANCHORS INSTALLED IN A HORIZONTAL OR UPWARDLY INCLINED ORINETATION SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY THE SPECIAL INSPECTOR. INSTALLATION OF THESE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. THE CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMACE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.

12.9 ADHESIVE ANCHORS SHALL BE PROOF TESTED IN ACCORDANCE WITH ACI 355.4.

12.10 EXTERIOR ANCHORS SHALL BE GALVANIZED FOR PROTECTION FROM THE ELEMENTS.

12.11 THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THE PRODUCTS SPECIFIED. (THIS DOES NOT SUPERCEDE THE REQUIREMENTS OF NOTE 8 ABOVE.)

12.12 EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTORS SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHROS BY GPR, X-RAY OR OTHER NON-DESTRUCTIVE MEANS.

13.0 DELEGATED DESIGN ITEMS

13.1 THE FOLLOWING ENGINEERED SYSTEMS AND COMPONENTS ARE DELEGATED FOR DESIGN TO A QUALIFIED SPECIALTY STRUCTURAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA AND CONTRACTED BY THE CONTRACTOR. THESE SYSTEMS AND COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO:

A. STEEL JOISTS
B. PRE-MANUFACTURED METAL CANOPIES
C. CURTAIN WALL AND STOREFRONT WALL SYSTEMS
D. SEISMIC BRACING FOR NON-STRUCTURAL COMPONETS PER ASCE 7 CHAPTER 13
E. EARTHQUAKE DRAINS
F. MECHANICAL ROOFTOP UNIT CURBS

13.2 DELEGATED ENGINEERED SYSTEMS AND COMPONENTS SHALL SATISFY THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES AND MATERIAL STANDARDS, INCLUDING AT A MINIMUM IBC 2018 AND ASCE 7-16.

13.3 SEE SPECIFICATIONS, BASIS OF DESIGN NOTES AND MATERIAL SPECIFIC NOTES FOR MATERIAL REQUIREMENTS, DESIGN CRITERIA, DETAILS OF THE SYSTEM/COMPONENT INTERFACE WITH THE PRIMARY STRUCTURE, AND SUBMITTAL AND CALCULATION REQUIREMENTS.

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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

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□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19095.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

GENERAL NOTES

S0.02

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STRUCTURAL DESIGN CRITERIA

ALL DESIGNS SHALL CONFORM TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION.

1.0 DESIGN LOADS

1.1 DEAD LOADS

1.1.1 ROOF DEAD LOADS

	MAXIMUM GRAVITY LOADS
ROOFING	3 PSF
INSULATION	3 PSF
STRUCTURAL FRAMING	6 PSF
MECHANICAL / ELECTRICAL / PLUMBING	10 PSF
CEILING	2 PSF
	24 PSF

1.2 LIVE LOADS (PER IBC 2018)

1.2.1 ROOF LIVE LOADS: ALL AREAS (ZONES)

GREATER OF 20 PSF MINIMUM (REDUCIBLE) OR SNOW LOAD

1.2.2 FLOOR LIVE LOADS

SLAB-ON-GRADE	100 PSF
MECHANICAL / ELECTRICAL ROOMS	125 PSF
OFFICES	50 PSF + 15 PSF PARTITION
CLASSROOMS	40 PSF + 15 PSF PARTITION
RESTROOMS	75 PSF + 15 PSF PARTITION
STORAGE	125 PSF

1.3 SNOW LOAD (PER IBC 2018)

1.3.1 DESIGN PARAMETERS

FLAT ROOF SNOW LOAD = 5 PSF
SLOPED ROOF SNOW LOAD = 5 PSF
SNOW LOAD IMPORTANCE FACTOR, I = 1.1
SNOW EXPOSURE FACTOR = 1.0
THERMAL FACTOR 1.0

1.4 WIND LOAD (PER IBC 2018)

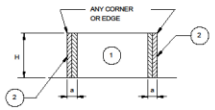
1.4.1 BASIC WIND SPEED = 157 MPH
EXPOSURE C; IMPORTANCE FACTOR I = 1.0 (RISK CATEGORY III)

1.4.2 DESIGN WIND PRESSURE - MAIN WINDFORCE RESISTING SYSTEM

LOCATION	WALL WINDWARD + LEEWARD (@ MEAN ROOF HEIGHT)		ROOF		2a (FT)
	INTERIOR ZONE	END ZONE	INTERIOR ZONE	END ZONE	
ALL AREAS, UNO	36.4 PSF	54.8 PSF	-45.9 PSF	-65.9 PSF	26.0

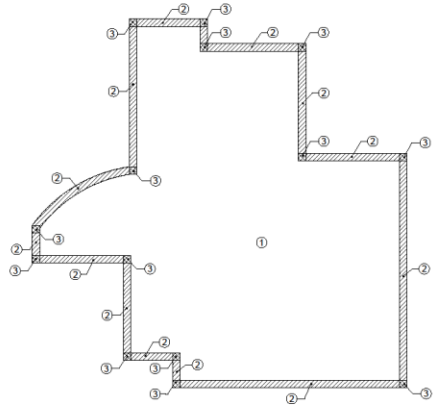
1.4.3 DESIGN WIND PRESSURE - WALL COMPONENTS & CLADDING

EXTERIOR WALL SYSTEMS & THEIR ATTACHMENTS TO THE PRIMARY STRUCTURE SHALL BE DESIGNED FOR THE PRESSURES SHOWN IN THE DIAGRAM BELOW:



PRESSURE ON EXTERIOR WALL SYSTEMS FOR BUILDINGS WITH MEAN ROOF HEIGHT (H) = AS SHOWN

	LOCATION	H	WINDWARD PRESSURE psf (INWARD)		LEEWARD PRESSURE psf (OUTWARD)		a (FT)
			(1)	(2)	(1)	(2)	
ALL AREAS, U.N.O.	AREA ≤ 10 ft²	0-60'	56.9	56.9	-61.7	-75.9	13
	10² ft ≤ AREA ≤ 50 ft²		51.1	51.1	-55.8	-64.2	13
	50² ft ≤ AREA ≤ 100 ft²		46.6	46.6	-53.3	-59.2	13



1.4.4 DESIGN WIND PRESSURE - ROOF UPLIFT

PRESSURES ARE CALCULATED FOR OPEN PORTION OF STRUCTURE

TRIBUTARY AREA	UPLIFT PRESSURE psf			a
	ZONE (1)	ZONE (2)	ZONE (3)	
	T (PSF)	T (PSF)	T (PSF)	(FT)
A ≤ 10ft²	-82.2	-104.4	-157.1	13
10ft² ≤ A ≤ 50ft²	-58.5	-78.6	-94.5	13
50ft² ≤ A ≤ 100ft²	-56.9	-67.5	-67.5	13

"T" = TYPICAL ROOF AREA EXCLUDING OVERHANG

"+" = PRESSURES ACTING TOWARD SURFACES

"-" = PRESSURES ACTING AWAY FROM SURFACES

1.5 SEISMIC LOAD (PER IBC 2018)

1.5.1	RISK CATEGORY	III (TABLE 1604.5)
1.5.2	SEISMIC IMPORTANCE FACTOR	1.25
1.5.3	SPECTRAL ACCELERATION COEFFICIENTS S_S AND S_1	S_S = 1.192g S_1 = 0.383g
1.5.4	SPECTRAL RESPONSE COEFFICIENTS S_{DS} AND S_{D1}	S_{DS} = 0.813g S_{D1} = 0.417g
1.5.5	SITE CLASS	D
1.5.6	BASIC SEISMIC-FORCE-RESISTING SYSTEM PER TABLE 1617.6	SPECIAL REINFORCED MASONRY SHEAR WALLS
1.5.7	DESIGN BASE SHEAR, V = C_S x W	0.203 x W = V
	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE, TABLE 1616.6.3
1.5.8	SEISMIC DESIGN CATEGORY	D (TABLE 1616.3 (1)
1.5.9	RESPONSE MODIFICATION FACTOR, R	5
1.6.0	OVERSTRENGTH FACTOR, Ω	2.5

2.0 FOUNDATION DESIGN CRITERIA

2.1 MINIMUM FOOTING BEARING DEPTH BELOW GRADE IS 24 INCHES.

2.2 MINIMUM FACTOR OF SAFETY FOR STABILITY AGAINST SLIDING, OVERTURNING AND UPLIFT IS: 1.5
SLIDING FRICTION COEFFICIENT FOR FOOTINGS IS 0.25

2.3 SOIL DESIGN PARAMETERS OF GEOTECHNICAL INVESTIGATION PERFORMED BY ECS.

3.0 FOUNDATION DESIGN CRITERIA

3.1 ALLOWABLE SOIL BEARING CAPACITIES = 2000 psf.

4.0 LIQUEFACTION MITIGATION

4.1 PROVIDE EARTHQUAKE DRAINS AS REQUIRED BY THE PROJECT GEOTECHNICAL REPORT UNDER THE BUILDING PAD AND EXTENDING 15' OUTSIDE THE BUILDING. AT AREAS CLOSE TO THE EXISTING BUILDING, CONTRACTOR SHALL INSTALL EARTHQUAKE DRAINS IN A NON-VIBRATORY METHOD TO PREVENT ANY SETTLEMENT OF THE EXISTING BUILDING. THE EARTHQUAKE DRAIN SYSTEM IS A DELEGATED DESIGN TO THE CONTRACTOR'S ENGINEER.

CONCRETE MATERIALS SCHEDULE

STRUCTURAL ELEMENT	f'c CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS (PSI)	REMARKS
ALL FOOTINGS U.N.O.	3000	
SLAB-ON-GRADE	3500	
ALL OTHER CONCRETE	3000	

NOTES:
1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. (150 PCF) (U.N.O.)

STEEL MATERIALS SCHEDULE

STRUCTURAL ELEMENT	FY YEILD STRENGTH (KSI)	REMARKS
BEAMS & GIRDERS	50	ASTM A992
COLUMNS	50	ASTM A992
BRACING,	50	ASTM A992
CONNECTIONS, PLATES, & ALL OTHERS	36	ASTM A36
ANCHOR BOLTS	36	F1554
PIPES	35	ASTM A573 GRADE B
TUBING	46	ASTM A500 GRADE B

CONCRETE COVER SCHEDULE

MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318-14, SECTION 20.6 FOR CONDITIONS NOT NOTED).
DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE.

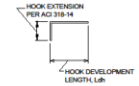
FOOTINGS (EARTH FORMED)	3 INCHES
COLUMNS / PIERS	1 1/2 INCHES
GRADE BEAMS OR SLAB TURNED DOWN EDGES:	
TOP	1 1/2 INCHES
BOTTOM	3 INCHES
SIDES (EARTH FORMED)	3 INCHES
SIDES (BOARD FORMED) #6 BAR & SMALLER	1 1/2 INCHES
#6 THRU #11 BAR	2 INCHES
SLABS-ON-GRADE (NO EXPOSURE TO WEATHER) FROM TOP	3/4 INCHES
SLABS-ON-GRADE (EXPOSURE TO WEATHER) FROM TOP	1 1/2 INCHES
RETAINING WALLS (NO SURFACES SHALL BE EARTH FORMED	
EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER):	
#5 BAR AND SMALLER	1 1/2 INCHES
#6 THRU #11 BAR	2 INCHES

PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

STANDARD HOOKS IN TENSION PER (ACI 318-14)

HOOK DEVELOPMENT LENGTH Ldh (INCHES)

BAR SIZE	f'c 4000 PSI	f'c 5000 PSI
#3	7	9
#4	10	11
#5	12	14
#6	15	17
#7	17	19
#8	19	22
#9	22	25
#10	24	28
#11	27	31



MINIMUM LAP SPLICES OF REINFORCING BARS IN TENSION (PER ACI 318-14)

f'c = 3500psi

BAR CONDITION / BAR SIZE	(--TOP BARS--) CATEGORY A	(--TOP BARS--) CATEGORY B	(--OTHER BARS--) CATEGORY A	(--OTHER BARS--) CATEGORY B
#3	20	30	16	23
#4	27	40	21	31
#5	33	50	26	38
#6	40	60	31	46
#7	58	87	45	67
#8	66	99	51	76
#9	75	112	58	86
#10	84	126	65	97
#11	93	139	72	107

NOTES:
1. YIELD STRENGTH OF REINFORCEMENT, fy, IS 60 ksi (LAP SPLICE LENGTH IS IN INCHES).
2. CONCRETE IS NORMAL WEIGHT (150 pcf).
3. TOP BAR INDICATES HORIZONTAL REINFORCEMENT WHICH IS PLACED ABOVE 12" OR MORE OF FRESH CONCRETE.
4. UNLESS NOTED OTHERWISE COLUMNS & PIERS UTILIZE TENSION LAP SPLICES.
5. CATEGORY 'A' IN TABLE DENOTES BARS THAT HAVE CLEAR SPACING AND COVER AT LEAST db AND STIRRUPS NOT LESS THAN CODE MIN. OR CLEAR SPACING GREATER THAN 2db AND CLEAR COVER OF db. CATEGORY 'B' IS ALL OTHER CASES.
6. VALUES IN TABLES ARE FOR A CLASS 'A' TENSION SPLICE. CLASS 'B' TENSION SPLICE VALUES CAN BE OBTAINED BY MULTIPLYING THE VALUES FROM THE TABLE BY 1.3.

MINIMUM LAP SPLICES OF REINFORCING BARS IN TENSION (PER ACI 318-14)

f'c = 3000psi

BAR CONDITION / BAR SIZE	(--TOP BARS--) CATEGORY A	(--TOP BARS--) CATEGORY B	(--OTHER BARS--) CATEGORY A	(--OTHER BARS--) CATEGORY B
#3	22	32	17	25
#4	29	43	22	33
#5	36	54	28	41
#6	43	64	33	50
#7	63	94	48	72
#8	72	107	55	82
#9	81	121	62	93
#10	91	136	70	105
#11	101	151	78	116

NOTES:
1. YIELD STRENGTH OF REINFORCEMENT, fy, IS 60 ksi (LAP SPLICE LENGTH IS IN INCHES).
2. CONCRETE IS NORMAL WEIGHT (150 pcf).
3. TOP BAR INDICATES HORIZONTAL REINFORCEMENT WHICH IS PLACED ABOVE 12" OR MORE OF FRESH CONCRETE.
4. UNLESS NOTED OTHERWISE COLUMNS & PIERS UTILIZE TENSION LAP SPLICES.
5. CATEGORY 'A' IN TABLE DENOTES BARS THAT HAVE CLEAR SPACING AND COVER AT LEAST db AND STIRRUPS NOT LESS THAN CODE MIN. OR CLEAR SPACING GREATER THAN 2db AND CLEAR COVER OF db. CATEGORY 'B' IS ALL OTHER CASES.
6. VALUES IN TABLES ARE FOR A CLASS 'A' TENSION SPLICE. CLASS 'B' TENSION SPLICE VALUES CAN BE OBTAINED BY MULTIPLYING THE VALUES FROM THE TABLE BY 1.3.

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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
○ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19095.00
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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

BASIS OF DESIGN

S0.03

TESTING / INSPECTION

1. THE TESTING AGENCY FOR ALL STRUCTURAL TESTING SHALL BE SELECTED AND PAID BY THE OWNER.
2. TESTING AGENCY SHALL PERFORM THE STRUCTURAL TESTING AND INSPECTIONS INDICATED IN SPECIFICATION DIVISIONS 2, 3, 4 AND 5, IBC CHAPTER 1 AND IBC CHAPTER 17 INSPECTIONS AS OUTLINED IN THE STATEMENT OF SPECIAL INSPECTIONS DEVELOPED FOR THE PROJECT, PROJECT SPECIFICATIONS, AND AS NOTED ON THE STRUCTURAL, ARCHITECTURAL, AND CIVIL DRAWINGS.
3. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY SUFFICIENTLY IN ADVANCE (48 HOURS MIN) OF REQUIRED TESTING AND INSPECTION WORK.
4. THE CONTRACTOR SHALL PROVIDE THE TESTING AGENCY ACCESS AS NECESSARY TO SHOP AND FIELD WORK TO PERFORM SPECIFIED TESTING AND INSPECTION WORK.
5. THE TESTING AGENCY SHALL PROVIDE ALL NECESSARY EQUIPMENT, TESTING/INSPECTION FORMS, ETC. TO PERFORM THE WORK REQUIRED AND ADEQUATELY DOCUMENT RESULTS, ETC. EXCEPTION: TENSION VERIFICATION EQUIPMENT SHALL BE PROVIDED AND OPERATED BY THE QC/DIRECTOR/FABRICATOR FOR THE AGENCY'S OBSERVATION OF THE PRE-INSTALLATION VERIFICATION TESTING.
6. THIS PROJECT IS SUBJECT TO SPECIAL INSPECTIONS AS OUTLINED IN CHAPTER 17 OF THE IBC. REFER TO THE STATEMENT OF SPECIAL INSPECTIONS INCLUDED IN THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL INSURE THAT ANY ITEMS IDENTIFIED AS DEFICIENT ARE CORRECTED AS REQUIRED TO COMPLY WITH THE CONSTRUCTION DOCUMENTS.
8. THE ERECTOR SHALL PROVIDE ANY TESTING/VERIFICATION/CALIBRATION EQUIPMENT REQUIRED (SKIDMORE) FOR CALIBRATION AND TESTING OF PRE-TENSIONED BOLTS. INSPECTOR SHALL OBSERVE THE CALIBRATION AND TESTING.
9. THE TESTING AGENCY SHALL WITHIN SEVEN (7) DAYS OF TEST OR INSPECTION, DIRECTLY DISTRIBUTE COPIES OF ALL REPORTS OF TESTING AND INSPECTION AS FOLLOWS:
   TWO (2) COPIES TO THE OWNER/SPECIAL INSPECTION COORDINATOR
   ONE (1) COPY TO SUBCONTRACTOR
   ONE (1) COPY TO STRUCTURAL ENGINEER

SPECIAL INSPECTIONS

1. PER CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE, A STATEMENT OF SPECIAL INSPECTIONS FOR THIS PROJECT HAS BEEN PREPARED AND IS INCLUDED IN THE PROJECT MANUAL FOR SUBMISSION TO THE BUILDING CODE OFFICIAL FOR THE PROJECT.
2. MATERIAL TESTING AND SPECIAL INSPECTIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, PROJECT SPECIFICATIONS, THE STATEMENT OF SPECIAL INSPECTIONS, AND APPLICABLE CODES REFERENCED THEREIN.
3. DOCUMENTATION OF THE TESTING AND INSPECTIONS SHALL BE SUBMITTED WEEKLY TO THE SPECIAL INSPECTION COORDINATOR FOR THE OWNER AND THE ENGINEER OF RECORD FOR REVIEW. A COMPLETE COPY OF REPORTS WILL BE MAINTAINED BY THE SPECIAL INSPECTION COORDINATOR AND AVAILABLE FOR REVIEW AT ALL TIMES ON SITE FOR SUBMISSION TO THE BUILDING OFFICIAL.
4. THE FIRM RESPONSIBLE FOR CARRYING OUT THE SPECIAL INSPECTIONS SHALL MAINTAIN AND DISTRIBUTE A LOG OF DISCREPANCIES/DEFICIENCIES INCLUDING THE DATE THEY WERE IDENTIFIED AND THE DATES ON WHICH THEY WERE REINSPECTED AND DEEMED TO COMPLY. CONTRACTOR SHALL INSURE THAT ANY ITEMS IDENTIFIED AS DEFICIENT ARE CORRECTED AS REQUIRED TO COMPLY WITH THE CONSTRUCTION DOCUMENTS. ANY REPAIRS NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS MUST BE SUBMITTED TO THE EOR FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.
5. IN ACCORDANCE WITH THE IBC-2015 ALL CONTRACTORS RESPONSIBLE FOR CONSTRUCTION OF THE SEISMIC-FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, AND/OR) COMPONENTS LISTED IN THE QUALITY ASSURANCE PLAN (AS DEFINED IN THE SEISMIC QUALITY ASSURANCE SECTION OF THE STATEMENT OF SPECIAL INSPECTIONS) SHALL SUBMIT A STATEMENT OF RESPONSIBILITY THE DESIGNATED SPECIAL INSPECTION COORDINATOR AND THE ENGINEER OF RECORD. THE REPORT SHALL CONTAIN THE FOLLOWING:
   A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
   B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
   C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
   D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITIONS IN THE ORGANIZATION.

   THESE STATEMENTS MUST BE SUBMITTED TO THE SPECIAL INSPECTION COORDINATOR AND THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF ANY WORK BY THAT TRADE. COPIES OF THE STATEMENT SHALL BE KEPT WITH THE INSPECTION DOCUMENTATION COLLECTED BY THE SPECIAL INSPECTION COORDINATOR FOR SUBMISSION TO THE BUILDING CODE OFFICIAL. USE THE COUNCIL OF AMERICAN STRUCTURAL ENGINEERS (CASE) FORMS AVAILABLE FREE ON THEIR WEBSITE.

STATEMENT OF SPECIAL INSPECTION TABLE NOTES:

1. THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION AND TESTING ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. THE CREDENTIALS AND RELEVANT EXPERIENCE AND TRAINING OF ALL INSPECTORS AND TESTING TECHNICIANS SHALL BE PROVIDED TO THE BUILDING OFFICIAL. INSPECTORS SHALL BE SUPERVISED BY THE INSPECTION AGENCY'S REGISTERED DESIGN PROFESSIONAL (PE) WHO IS REGISTERED IN THE PROJECT STATE. WHEN THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE DEEMS IT APPROPRIATE THAT THE INDIVIDUAL PERFORMING A STIPULATED TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION OR LICENSE AS INDICATED BELOW, SUCH DESIGNATION SHALL APPEAR BELOW THE AGENCY NUMBER ON THE SCHEDULE.

PE/SE STRUCTURAL ENGINEER - A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES
PE/GE GEOTECHNICAL ENGINEER - A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS
EIT ENGINEER-IN-TRAINING - A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION AND HAS A MINIMUM OF ONE YEAR OF RELATED EXPERIENCE.
SCRG SOUTH CAROLINA REGISTERED GEOLOGIST
GIT SOUTH CAROLINA GEOLOGIST-IN-TRAINING WITH A MINIMUM OF ONE YEAR OF RELATED EXPERIENCE

AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION
ACI-CFTT CONCRETE FIELD TECHNICIAN - GRADE 1
ACI-CCI CONCRETE CONSTRUCTION INSPECTOR
ACI-LTT LABORATORY TESTING TECHNICIAN - GRADE 1&2
ACI-STT STRENGTH TESTING TECHNICIAN

AMERICAN WELDING SOCIETY (AWS)
AWS-CWI CERTIFIED WELDING INSPECTOR
AWS/ASC-SSI CERTIFIED STRUCTURAL STEEL INSPECTOR

AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING (ASNT) CERTIFICATION
ASNT NON-DESTRUCTIVE TESTING TECHNICIAN - LEVEL II OR III.

INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION
ICC-SMSI STRUCTURAL MASONRY SPECIAL INSPECTOR (CERTIFICATE PLUS ONE YEAR EXPERIENCE MIN.)
ICC-SWSI STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR (CERTIFICATE PLUS ON YEAR EXPERIENCE MIN.)
ICC-RCSI REINFORCED CONCRETE SPECIAL INSPECTOR

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)
NICET-GET GEOTECHNICAL ENGINEERING TECHNICIAN - LEVEL II

2. THE FOLLOWING DEFINITION SHALL BE USED FOR THE FREQUENCY OF TESTING
A. CONTINUOUS INSPECTION: FULL TIME OBSERVATION OF THE WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED.
B. PERIODIC INSPECTION: PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA HAS BEEN OR IS BEING, PERFORMED AND AT THE COMPLETION OF THE WORK. THE TERM PERIODIC MEANS THAT THE CONTINUOUS PRESENCE OF A SPECIAL INSPECTOR IS NOT REQUIRED, BUT IT DOES NOT NECESSARILY INDICATE THAT FEWER THAN 100% OF ITEMS MARKED FOR PERIODIC INSPECTION REQUIRE INSPECTION. SEE THE PROJECT SPECIFICATIONS FOR TESTING AND INSPECTION QUANTITIES AND PERCENTAGES. PERIODIC INSPECTIONS SHALL OCCUR NO LESS THAN ONCE PER WEEK DURING THE PROGRESS OF THE WORK BEING REVIEWED BUT SHALL BE MORE OFTEN IF REQUIRED TO SATISFY THE PROJECT PROGRESS AND INSPECTION REQUIREMENTS OUTLINED IN THE PROJECT SPECIFICATIONS AND HEREIN.

STATEMENT OF SPECIAL INSPECTIONS - SOILS & FOUNDATION

ITEM	AGENCY # (QUALIFICATION)	SCOPE
1. SHALLOW FOUNDATIONS	NICET-GET OR EIT OR GIT OR SCRG	INSPECT SOILS BELOW FOOTINGS FOR ADEQUATE BEARING CAPACITY, ELEVATION, AND CONSISTENCY WITH GEOTECHNICAL REPORT. * INSPECTION FREQUENCY: PERIODIC INSPECT REMOVAL OF UNSUITABLE MATERIAL AND PREPARATION OF SUBGRADE PRIOR TO PLACEMENT OF CONTROLLED FILL.
2. CONTROLLED STRUCTURAL FILL	NICET-GET OR EIT OR GIT OR SCRG	PERFORM SIEVE TESTS (ASTM D422 & D1140) AND MODIFIED PROCTOR TESTS (ASTM D1557) OF EACH SOURCE OF FILL MATERIAL. INSPECT PLACEMENT, LIFT THICKNESS AND COMPACTION OF CONTROLLED FILL. TEST DENSITY OF EACH LIFT OF FILL BY NUCLEAR METHODS (ASTM D2922) AND EVALUATE FOR COMPLIANCE. VERIFY EXTENT AND SLOPE OF FILL PLACEMENT. * INSPECTION FREQUENCY: CONTINUOUS
3. EVALUATION OF IN-PLACE DENSITY	NICET-GET OR EIT OR GIT OR SCRG	TEST DENSITY AND EVALUATE FOR COMPLIANCE. * INSPECTION FREQUENCY: PERIODIC
4. SITE PREPARATION	NICET-GET OR EIT OR GIT OR SCRG	VERIFY SITE PREPARATION COMPLIES WITH APPROVED SOIL REPORT. * INSPECTION FREQUENCY: PERIODIC
5. HELICAL ANCHORS	N/A	

STATEMENT OF SPECIAL INSPECTIONS - CAST-IN-PLACE CONCRETE

ITEM	AGENCY # (QUALIFICATION)	SCOPE
1. MIX DESIGN	ACI-CFTT OR ICC-RCSI OR EIT	REVIEW CONCRETE BATCH TICKETS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN. VERIFY THAT WATER ADDED AT THE SITE DOES NOT EXCEED THE MIX DESIGN. * INSPECTION FREQUENCY: CONTINUOUS
1. MATERIAL CERTIFICATION	ACI-CFTT OR ICC-RCSI OR EIT	REVIEW MILL AND PRODUCT CERTIFICATIONS FOR MATERIALS ON SITE FOR COMPLIANCE WITH SPECIFICATION AND APPROVED SUBMITTALS * INSPECTION FREQUENCY: PERIODIC
3. REINFORCEMENT INSTALLATION	ACI-CFTT OR ICC-RCSI OR EIT	INSPECT SIZE, SPACING, COVER, POSITIONING, LAP LENGTH, AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. INSPECT BAR LAPS AND MECHANICAL SPLICES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS. * INSPECTION FREQUENCY: PERIODIC
4. POST-TENSIONING OPERATIONS	N/A	
5. WELDING OF REINFORCING	N/A	
6. ANCHOR RODS	ACI-CFTT OR ICC-RCSI OR EIT	INSPECT SIZE, POSITIONING AND EMBEDMENT OF ANCHOR RODS. INSPECT CONCRETE PLACEMENT AND CONSOLIDATION AROUND ANCHORS. * INSPECTION FREQUENCY: CONTINUOUS
7. CONCRETE PLACEMENT	ACI-CFTT OR ICC-RCSI OR EIT	INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED. * INSPECTION FREQUENCY: CONTINUOUS
8. SAMPLING AND TESTING OF CONCRETE	ACI-CFTT ACI-STT	TEST CONCRETE COMPRESSIVE STRENGTH (ASTM C31 & C39), SLUMP (ASTM C143), AIR-CONTENT (ASTM C231 OR C173) AND TEMPERATURE (ASTM C1064). * INSPECTION FREQUENCY: CONTINUOUS
9. CURING AND PROTECTION	ACI-CFTT OR ICC-RCSI OR EIT	INSPECT CURING, COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES. * INSPECTION FREQUENCY: PERIODIC
10. FORMWORK	ACI-CFTT OR ICC-RCSI OR EIT	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. * INSPECTION FREQUENCY: PERIODIC

STATEMENT OF SPECIAL INSPECTIONS - EPOXY ANCHORS

ITEM	AGENCY # (QUALIFICATION)	SCOPE
1. MATERIAL CERTIFICATION	AWS/AISC-SSI OR ICC-SWSI	INSPECT THREADED ROD FOR SIZE, LENGTH AND MATERIAL. INSPECT EPOXY MATERIALS FOR PRODUCT, APPLICATORS AND EXPIRATION. * INSPECTION FREQUENCY: PERIODIC
2. DRILLING	AWS/AISC-SSI OR ICC-SWSI	VERIFY EMBEDMENT DEPTH (TO COORDINATE WITH CONTRACT DOCUMENTS AND MANUFACTURER'S REQUIREMENTS), SPACING, EDGE DISTANCE AND SUBSTRATE. * INSPECTION FREQUENCY: PERIODIC
3. CLEANING	AWS/AISC-SSI OR ICC-SWSI	VERIFY INSTALLERS ARE CERTIFIED BY MANUFACTURER. INSPECT CLEANING OF HOLES AND MOISTURE PRESENT. * INSPECTION FREQUENCY: CONTINUOUS
4. INSTALLATION	AWS/AISC-SSI OR ICC-SWSI	VERIFY ADEQUATE MIXING OF EPOXY MATERIALS, FILLING OF HOLES AND INSTALLATION OF THREADED RODS. VERIFY ADEQUATE CURE TIME AND TIGHTENING TORQUE. * INSPECTION FREQUENCY: CONTINUOUS

STATEMENT OF SPECIAL INSPECTIONS - STEEL

ITEM	AGENCY # (QUALIFICATION)	SCOPE
1. FABRICATOR CERTIFICATION/ QUALITY CONTROL PROCEDURES NOTE: PER NCBC 2012-1704.2.2 SPECIAL INSPECTIONS ARE NOT REQUIRED FOR APPROVED FABRICATORS. APPROVED FABRICATORS ARE DETERMINED BASED ON SECTION 1704.2.1 AND INCLUDE AISC CERTIFIED PLANTS FOR BUILDINGS AND ISO 9000 AUDITED FACILITIES	AWS/AISC-SSI OR ICC-SWSI	REVIEW SHOP FABRICATION AND QUALITY CONTROL PROCEDURES. * INSPECTION FREQUENCY: PROCEDURES, WORKMANSHIP, QUALITY CONTROL, PRODUCT DOCUMENTATION - PERIODIC * INSPECTION FREQUENCY: WELDING - PERIODIC AND CONTINUOUS, SEE SPECIFICATION 05120 FABRICATORS APPROVED IN ACCORDANCE WITH 1704.2.2 SHALL PERFORM ALL AWS AND PROJECT CONTRACT SPECIFIED SHOP WELD INSPECTIONS IN-HOUSE USING QUALIFIED. THESE TESTING REPORTS WILL BE MADE AVAILABLE TO THE EOR AND OWNER FOR REVIEW OF COMPLIANCE. AT THE CONCLUSION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
2. MATERIAL CERTIFICATION	AWS/AISC-SSI OR ICC-SWSI	REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH-STRENGTH BOLTS, NUTS, WELDING ELECTRODES, AND METAL DECK. REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH STRENGTH BOLTS AND WELDING ELECTRODES. * INSPECTION FREQUENCY: PERIODIC
3. OPEN WEB STEEL JOISTS	N/A	
4. BOLTING	AWS/AISC-SSI OR ICC-SWSI	INSPECT INSTALLATION AND TIGHTENING OF HIGH-STRENGTH BOLTS, VERIFY THAT SPLINES HAVE SEPARATED FROM TENSION CONTROL BOLTS. VERIFY PROPER TIGHTENING SEQUENCE. * INSPECTION FREQUENCY: PERIODIC (SEE SPECIFICATION 052100) * INSPECTION FREQUENCY: CONTINUOUS FOR BOLTS IN SLIP CRITICAL CONNECTIONS
5. WELDING	ICC-SWSI & AWS-CWI ASNT (WHERE NDT IS REQUIRED)	VISUALLY INSPECT ALL WELDS. INSPECT PRE-HEAT, POST-HEAT AND SURFACE PREPARATION BETWEEN PASSES. VERIFY SIZE AND LENGTH OF FILLET WELDS. ULTRASONIC TESTING OF ALL FULL-PENETRATION WELDS. * INSPECTION FREQUENCY: PERIODIC (SEE SPECIFICATION 052100 AND IBC TABLE 1704.3) FOR ALL SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16 IN. * INSPECTION FREQUENCY: CONTINUOUS (SEE SPECIFICATION 052100 AND IBC TABLE 1704.3) FOR ALL PARTIAL AND FULL PENETRATION WELDS, MULTIPASS FILLET WELDS AND FILLET WELDS OVER 5/16 IN.
6. SHEAR CONNECTORS	ICC-SWSI OR AWS-CWI	INSPECT SIZE, NUMBER, POSITIONING AND WELDING OF SHEAR CONNECTORS. INSPECT STUDS FOR FULL 360 DEGREE FLASH. RING TEST ALL SHEAR CONNECTORS WITH A 3 LB HAMMER. BEND TEST ALL QUESTIONABLE STUDS TO 15 DEGREES. * INSPECTION FREQUENCY: PERIODIC (SEE SPECIFICATION 053100)
7. STRUCTURAL DETAILS	PE/SE OR AWS/AISC-SSI OR ICC-SWSI	INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATIONS,LOCATION, AND CONNECTION DETAILS. * INSPECTION FREQUENCY: PERIODIC
8. METAL DECK	N/A	
9. OTHER	N/A	

STATEMENT OF SPECIAL INSPECTIONS - MASONRY

ITEM	AGENCY # (QUALIFICATION)	SCOPE
1. INSPECTION COMPLIANCE	ICC-SMSI OR EIT	COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED. * INSPECTION FREQUENCY: PERIODIC
2. MATERIALS	ICC-SMSI OR EIT	INSPECT PROPORTIONING, MIXING AND RETEMPERING OF MORTAR AND GROUT. VERIFY f'm PRIOR TO CONSTRUCTION AND FOR EVERY 5000SF DURING CONSTRUCTION. * INSPECTION FREQUENCY: PERIODIC
3. INSTALLATION OF MASONRY	ICC-SMSI OR EIT	INSPECT SIZE, LAYOUT BONDING AND PLACEMENT OF MASONRY UNITS. * INSPECTION FREQUENCY: PERIODIC
4. MORTAR JOINTS	ICC-SMSI OR EIT	INSPECT CONSTRUCTION OF MORTAR JOINTS INCLUDING LOCATION. TOOLING AND FILLING OF HEAD JOINTS * INSPECTION FREQUENCY: PERIODIC
5. REINFORCEMENT INSTALLATION	ICC-SMSI OR EIT	INSPECT SIZE, PLACEMENT POSITIONING AND LAPPING OF REINFORCING STEEL. * INSPECTION FREQUENCY: PERIODIC
6. PRESTRESSED MASONRY	N/A	
7. GROUTING OPERATIONS	ICC-SMSI OR EIT	INSPECT PLACEMENT AND CONSOLIDATION OF GROUT. INSPECT MASONRY CLEAN-OUTS FOR HIGH-LIFT GROUTING. PRIOR TO GROUTING VERIFY GROUT SPACE IS CLEAN AND THAT GROUT PLACEMENT COMPLIES WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS. * INSPECTION FREQUENCY: CONTINUOUS
8. WEATHER PROTECTION	ICC-SMSI OR EIT	INSPECT COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES. VERIFY THAT WALL CAVITIES ARE PROTECTED AGAINST PRECIPITATION. * INSPECTION FREQUENCY: CONTINUOUS
9. EVALUATION OF MASONRY STRENGTH	ICC-SMSI OR EIT	TEST COMPRESSIVE STRENGTH OF MORTAR AND GROUT CUBE SAMPLES(ASTM C780). TEST COMPRESSIVE STRENGTH OF MASONRY PRISMS (ASTM C1314). * INSPECTION FREQUENCY: CONTINUOUS
10. ANCHORS AND TIES	ICC-SMSI OR EIT	INSPECT SIZE, LOCATION, SPACING AND EMBEDMENT OF DOWELS, ANCHORS AND TIES. * INSPECTION FREQUENCY: CONTINUOUS

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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19065.00
■ DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

SPECIAL INSPECTIONS

S0.04

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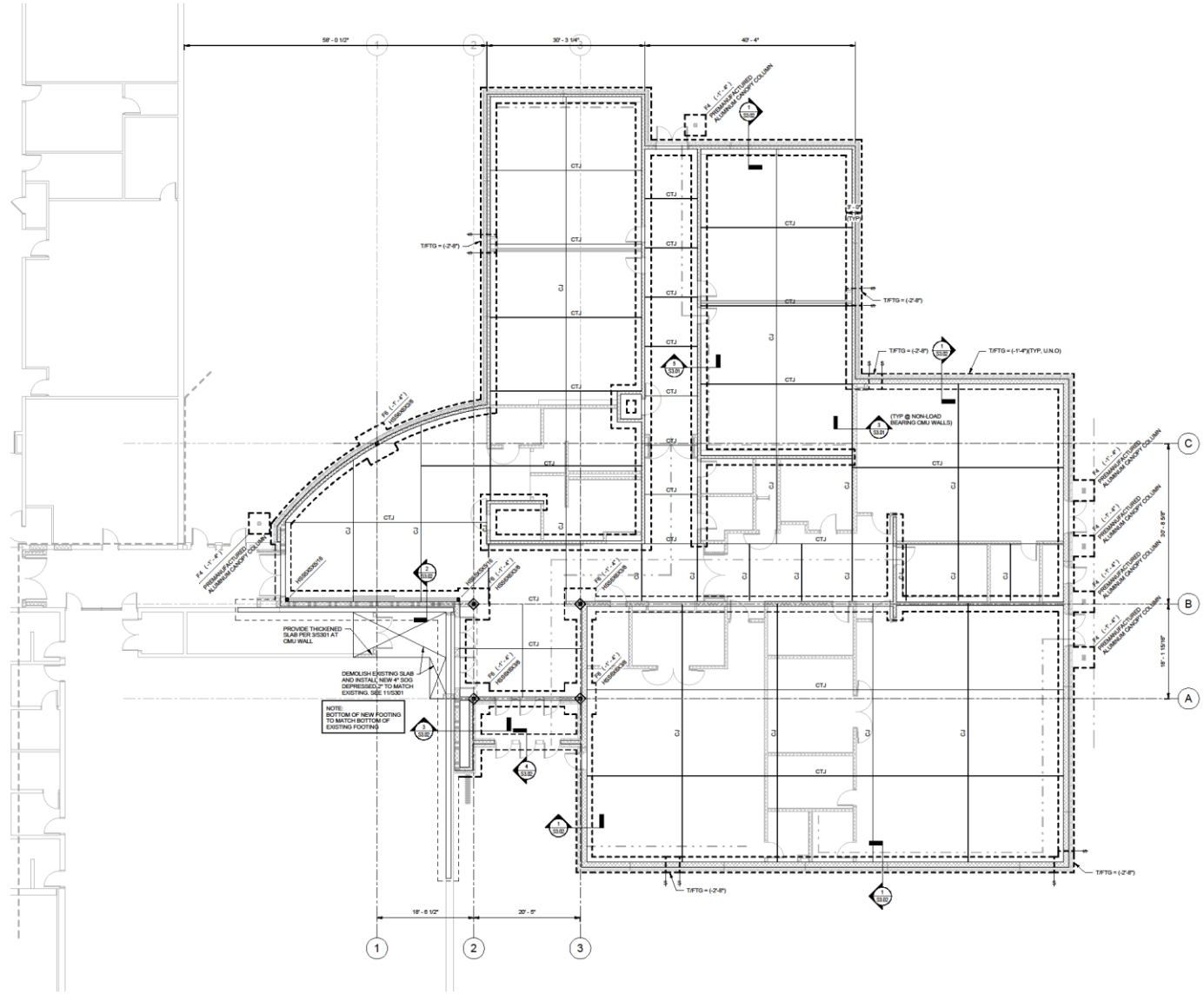


1 FOUNDATION / SLAB PLAN
1/8" = 1'-0"

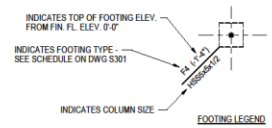
BUILDING FINISH FLOOR EL. 0'-0" (U.N.O.) = DATUM EL. 23.46' (SEE CIVIL DWG)

SLAB-ON-GRADE = 4" CONCRETE SLAB REINF. W/ WWF 6x6xW2.9xW2.9 OVER 15 MIL VAPOR BARRIER AND 4" - #57 STONE BASE. (TYP, U.N.O.)

CJ - INDICATES CONSTRUCTION JOINT, SEE DETAIL 1/S301
CTJ - INDICATES CONTROL JOINT, SEE DETAIL 1/S301
$ - INDICATES STEPPED FOOTING, SEE DETAIL 2/S301

NOTES:

1. SEE DRAWING S001 - S003 FOR GENERAL NOTES AND BASIS OF DESIGN.
2. SEE ARCH. DRAWINGS FOR ALL BUILDING/WALL PLAN DIMENSIONS NOT SHOWN ON STRUCTURAL DWGS.
3. SEE ARCH. DRAWINGS FOR SLAB EDGE DIMENSIONS.
4. ALL FOOTINGS SHALL BE CENTERED ON COLUMNS, U.N.O.
5. CONTINUOUS WALL FOOTING REINFORCEMENT AND TURNED DOWN GRADE BEAMS, LONG WAY BARS, SHALL BE CONTINUOUS THRU COLUMN FOOTINGS
6. WHERE CONTINUOUS FOOTINGS OF DIFFERENT SIZES MERGE TOGETHER, THE SMALLER FOOTING LONG-WAY BARS SHALL EXTEND, (TENSION LAP SPLICE), INTO THE LARGER FOOTING.
7. COORDINATE ALL SLAB RECESS LOCATIONS, SIZE AND DEPTHS W/ ARCH. DWGS.
8. SEE PLUMBING DRAWINGS FOR ADD'L INFORMATION.
9. PLACE CJ AT INTERIOR/EXTERIOR SLAB TRANSITION LOCATIONS.
10. COORDINATE FOORING STEP LOCATIONS AND ELEVATIONS WITH PIPING REQUIREMENTS. SEE CIVIL / PLUMBING DRAWINGS.



FOOTING LEGEND

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PROJECT NUMBER: 19055.00
DATE: 07.30.2020

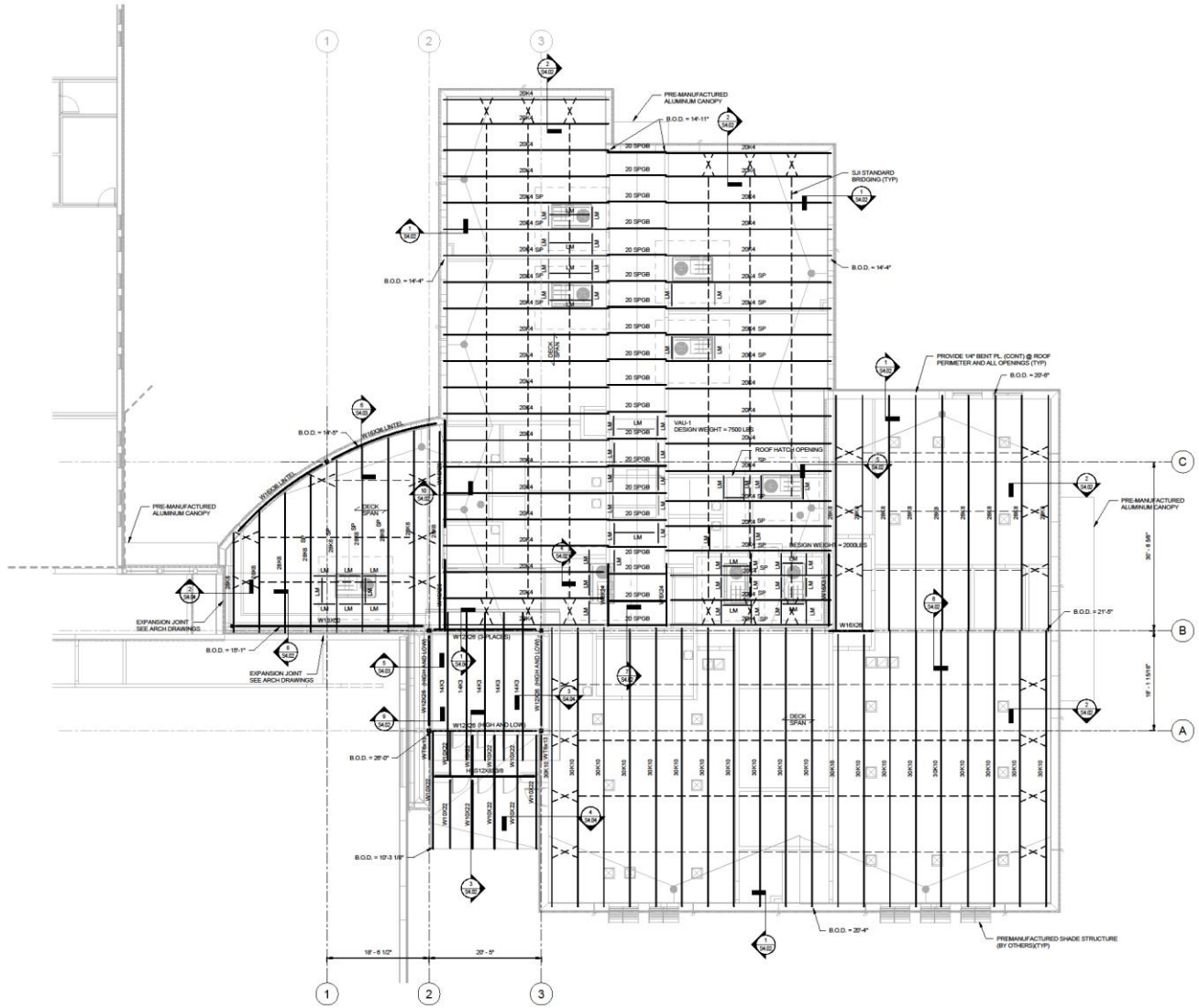
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

FOUNDATION / SLAB PLAN

S1.01



1 ROOF FRAMING PLAN
1/8" = 1'-0"

T/STL ELEV. = VARIES

ALL ROOF FRAMING CONSTRUCTION IS STEEL JOIST WITH 1 1/2", 22 GAGE GALV. METAL DECK (TYP, UNO).

NOTE: ALL JOIST SPACED AT 5'-0" O.C. MAX (TYP, U.N.O)

NOTES:
1. SEE S001 - S003 FOR GENERAL NOTES AND BASIS OF DESIGN
2. SEE ARCH. DWGS. FOR ALL BUILDING/WALL PLAN DIMENSIONS NOT SHOWN.
3. SEE ARCH / MECH DRAWINGS FOR ALL ROOF EQUIPMENT AND OPENINGS NOT SHOWN.
4. DO NOT SUSPEND PIPES, DUCTS OR CEILINGS FROM ROOF DECK.

JOIST NOTES:
SP INDICATES SPECIAL JOIST MANUFACTURER SHALL DESIGN FOR MAX. TOP CHORD NON-PANEL POINT LOAD OF 1000 LBS (AT TWO LOCATIONS) ANYWHERE WITHIN MECHANICAL ZONE. SEE DETAIL 6/S401 FOR FRAMED OPENING DETAIL. MAXIMUM MECHANICAL SYSTEM LOAD ON EACH JOIST = 2000 LBS. CONTRACTOR SHALL COORDINATE MECHANICAL CURB SUPPORT SYSTEM FOR SELECTED EQUIPMENT. USE L5 x 3 1/2 x 3/8" (SLV)(U.N.O) BETWEEN JOIST FOR CURB SUPPORT AS REQUIRED BY SELECTED CURB AND FOR ROOF OPENINGS. CONTRACTOR SHALL PURCHASE ROOF TOP MECHANICAL CURB SUPPORT SYSTEM FOR SELECTED EQUIPMENT. CURBS RUNNING PARALLEL TO JOISTS ALWAYS REQUIRE SUBFRAMING UNLESS CURB IS OVER WALL OR JOIST.

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PROJECT NUMBER: 19065.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ROOF FRAMING PLAN

S2.01

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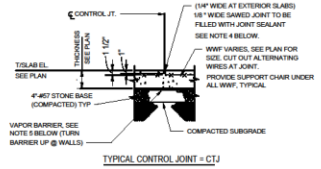
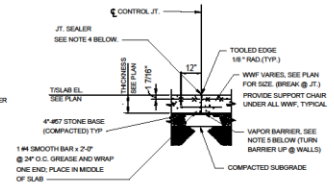


TYPICAL CONTROL JOINT = CTJ



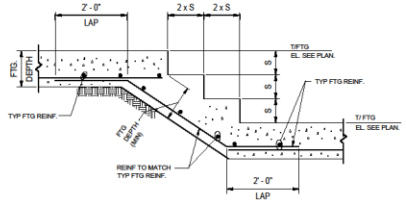
TYPICAL CONSTRUCTION JOINT = CJ

SLAB ON GRADE JOINT DETAILS

NOTES:

1. CONSTRUCTION AND/OR CONTROL JOINTS ARE INTERCHANGEABLE AT THE CONTRACTOR'S OPTION. SEE PLANS FOR LAYOUT OF CONSTRUCTION AND/OR CONTROL JOINTS. JOINTS (20' ON CENTER MAXIMUM). JOINTS LOCATED AT COLUMN CENTER LINES ARE CONSIDERED OPTIMUM.
2. DO NOT LOCATE CONSTRUCTION AND/OR CONTROL JOINTS BELOW MASONRY WALLS.
3. SAW CUTTING OF JOINTS SHALL BE AS SOON AS THE CONCRETE SETS SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING SPALLING OR TEARING, BUT NOT MORE THAN 24 HOURS AFTER PLACING.
4. JOINT FILLER/SEALER SHALL BE AN ELASTOMERIC JOINT (POLYURETHANE POURABLE SEALANT) PER ASTM C920-87. (AIR TIGHT FOR RADON ELIMINATION SYSTEM).
5. VAPOR BARRIER SHALL BE 15 MIL POLYETHELYNE SHEETING OR EQUIVALENT (INSTALL PER ASTM E-1643)

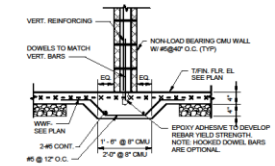
1 S.O.G JOINT DETAIL
3/4" = 1'-0"



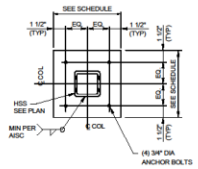
NOTES:

1) S MAX = 2'-0" (SEE PLAN FOR ELEVATION)
2) REINFORCING NOT SHOWN FOR CONCRETE AND CMU WALL. SEE TYP. DETAILS.

2 TYP STEPPED FOOTING DETAIL
3/4" = 1'-0"



3 TYP THICKEND SLAB AT INTERIOR NON-LOAD BEARING CMU WALL (L.N.C)
3/4" = 1'-0"

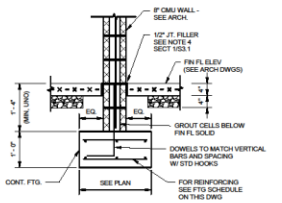


BASE PLATE SCHEDULE			
COLUMN SIZE	WIDTH (IN.) B	LENGTH (IN.) N	THICKNESS (IN.) TP
HSS 5x5	11	11	3/4"
HSS 6x6	12	12	3/4"

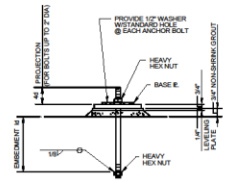
BASE PLATE TYPES

(SEE DET. X/S— FOR ANCHOR BOLT DETAIL)

4 BASE PLATE TYPES-3/32"
3/4" = 1'-0"



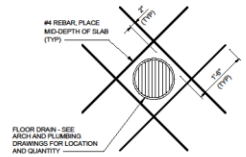
5 TYPICAL LOAD BEARING CMU WALL
3/4" = 1'-0"



Id = 9" @ 3/4" DIA BOLTS
d = ANCHOR BOLT DIA

CONTRACTOR TO VERIFY PROJECTIONS BEFORE INSTALLING ANCHOR BOLTS (SEE DETAIL X/S— FOR BASE PLATE DETAIL)

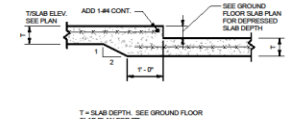
6 TYP ANCHOR BOLT DETAIL 3/32
3/4" = 1'-0"



ADDITIONAL REINFORCING AROUND FLOOR DRAIN

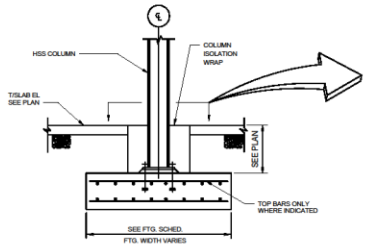
TYPICAL FLOOR DRAIN REINFORCING DETAIL

7 DETAIL
3/4" = 1'-0"

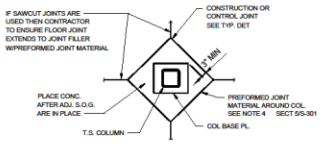


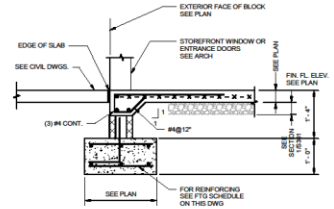
T = SLAB DEPTH. SEE GROUND FLOOR SLAB PLAN FOR "T"

8 SECTION
3/4" = 1'-0"

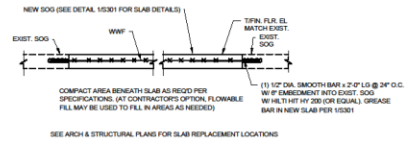


9 TYP. S.O.G JOINT DETAIL
3/4" = 1'-0"





10 DETAIL
3/4" = 1'-0"



SEE ARCH & STRUCTURAL PLANS FOR SLAB REPLACEMENT LOCATIONS

11 NEW SLAB AT EXISTING SLAB
3/4" = 1'-0"

WALL TYPE	VERT REINF	BOND BEAMS		REMARKS
		REINF	SPACING	
8" EXTERIOR	#5@24"	2#5	4'-0"	NOTES 1, 2, 3
12" EXTERIOR	#5@16"	2#5	4'-0"	NOTES 1, 2, 3
INTERIOR LOAD BEARING AND SHEAR WALLS	#5@32"	2#5	4'-0"	NOTES 1, 2, 3
INTERIOR NON-LOAD BEARING	#4@40"	2#4	8'-0"	NOTES 1, 2, 3

NOTES:

1. REINFORCING SHOWN IN DETAILS SHALL SUPERCEDE SCHEDULE.
2. PROVIDE CONTINUOUS BOND BEAM AT WALL LATERAL SUPPORTS.
3. PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C.

REINFORCING SCHEDULE FOR CONTINOUS FOOTINGS

WIDTH	DEPTH	L.W. BOTTOM REINFORCING	S.W. BOTTOM REINFORCING	L.W. TOP REINFORCING	S.W. TOP REINFORCING
3'-0"	1'-0"	3 -#5	#5@12	3 -#5	#5@12
5'-0"	1'-0"	5 -#5	#5@12	5 -#5	#5@12

REINFORCING SCHEDULE FOR SQUARE FOOTINGS

DESIGNATION	SIZE	DEPTH (IN)	BOTTOM REINFORCING	TOP REINFORCING
F4	4'-0"SQ.	18	5 -#5 E.W.	5 -#5 E.W.
F6	6'-0"SQ.	16	6 -#5 E.W.	

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■ PROJECT NUMBER: 19355.00
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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

SECTIONS AND DETAILS

S3.01

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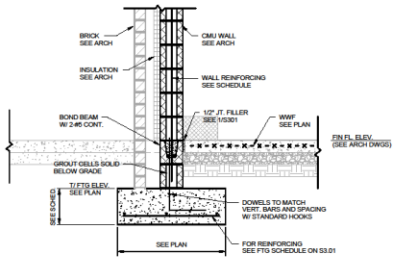
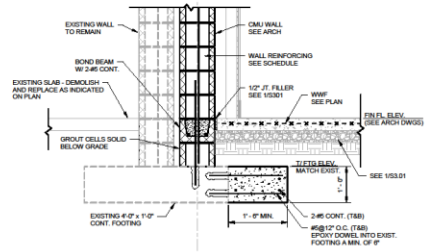
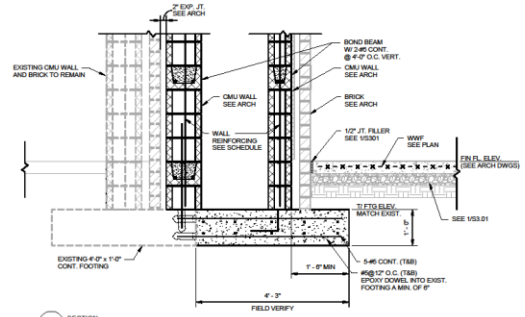


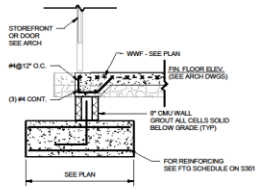
1 SECTION
3/4" = 1'-0"



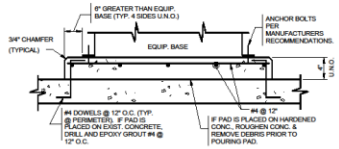
2 SECTION
3/4" = 1'-0"



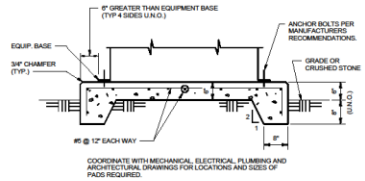
3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



5 RAISED PAD DETAIL
3/4" = 1'-0"



6 TYP ISOLATED EXT. PAD DETAIL
3/4" = 1'-0"

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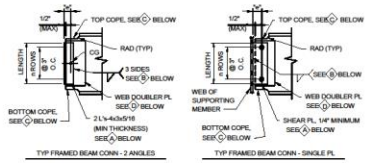
S3.02



TYP FRAMED BEAM CONN - 2 ANGLES

TYP FRAMED BEAM CONN - SINGLE PL

NOTES:

1. CONNECTIONS ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY AND MAY NOT BE INCLUSIVE. WEB EXTENSION PLATES, STIFFENERS, ETC SHALL BE ADDED TO FACILITATE CONNECTION LENGTH REQUIRED @ NO ADDITIONAL COST.
2. FOR BEAMS W/ AXIAL FORCES (PRYING ACTION), SEE NOTE 6.0 ON SHT S001.
3. CONNECTIONS ABOVE SHALL BE DESIGNED TO DEVELOP A MIN END REACTION OF 12K.
4. CONNECTIONS SHALL BE DESIGNED SUCH THAT ALL ADDITIONAL STRESSES DUE TO ECCENTRICITY SHALL BE DEVELOPED BY THE CONNECTION AND NOT INDUCE ANY ADDITIONAL STRESSES INTO SUPPORTING MEMBERS.
5. IN ADDITION TO THE REACTION INDICATED, WEB BOLTS MUST BE DESIGNED FOR THE MOMENT IN THE BOLT GROUP CREATED AS A RESULT OF THE FORCE TRANSFER FROM THE CONNECTING MEMBER TO THE SUPPORTING MEMBER.

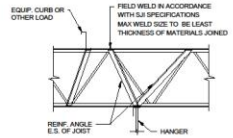
A THICKNESS AND LENGTH OF ANGLES OR SHEAR PLATE AND NUMBER OF BOLTS SHALL BE DESIGNED FOR THE REACTION INDICATED USING THE CORRESPONDING "e" DISTANCE CALCULATED FOR THE CONNECTION LAYOUT AND VERIFYING ALL APPLICABLE LIMIT STATES.

B LENGTH AND SIZE OF WELD SHALL BE DESIGNED FOR THE REACTION INDICATED INCLUDING ANY ADDITIONAL STRESS/MOMENTS CREATED IN THE LOAD TRANSFER FORM THE CONNECTING MEMBER TO THE SUPPORTING MEMBER.

C BEAM COPES SHALL BE PROVIDED AS NECESSARY TO FACILITATE CONNECTION FIT-UP. CAPACITIES OF MEMBERS W/ COPES (TOP OR TOP & BOTTOM) SHALL BE ANALYZED TO DETERMINE THE CRITICAL LIMIT STATE DUE TO THE REDUCED SECTION INCLUDING BUT NOT LIMITED TO BUCKLING OR YIELDING OF THE WEB.

D WEB DOUBLER PLATES OR STIFFENERS (NOT SHOWN) SHALL BE PROVIDED AS NECESSARY TO DEVELOP THE REACTION INDICATED AND FOR REGIONS OF OVER-STRESS AS DESCRIBED IN A & B ABOVE.

1 TYP STANDARD FRAMING DETAIL
3/4" = 1'-0"

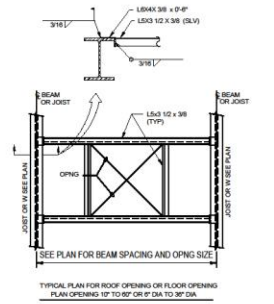


TYPICAL JOIST REINFORCEMENT FOR HANGER OR TOP CHORD LOADS GREATER THAN (A) LBS AT MORE THAN SPECIFIED MAX. DISTANCE FROM PANEL POINTS. MAX LOAD PER JOIST - (B) LBS

CONCENTRATED LOADS ON JOISTS

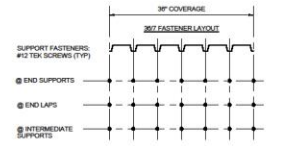
JOIST DEPTH	JOIST REINF. ANGLE	MAX. DIST. FROM PANEL POINT TO CONCEN. LOAD W/O REINF. JOIST	A	B
UP TO 12"	L1x1x 1/8	2"	100#	300#
14" TO 18"	L1 1/4 x1 1/4x 1/8	3"	150#	450#
20" TO 24"	L1 1/2x1 1/2x 3/16	4"	175#	700#
26" TO 44"	L2 x 2 x 3/16	5"	200#	1000#

2 TYP. SECTION FOR CONCENTRATED LOADS ON JOISTS
3/4" = 1'-0"



TYPICAL PLAN FOR ROOF OPENING OR FLOOR OPENING
PLAN OPENING 10" TO 60" OR 6" DIA TO 36" DIA

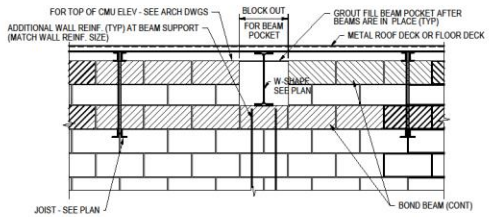
3 DETAIL AT ROOF OR FLOOR OPENING
3/4" = 1'-0"



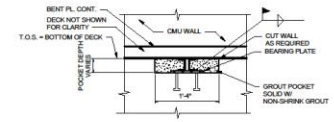
NOTES:

1. NOTIFY ENGINEER IF ANY WIDTH OTHER THAN 36" DECK IS USED.
2. SIDELAP FASTENERS BETWEEN DECK PANELS SHALL BE (3)-#10 TEK SCREWS EQUALLY SPACED BETWEEN ADJACENT JOISTS (UNO).

4 METAL ROOF DECK FASTENING PATTERN
3/4" = 1'-0"



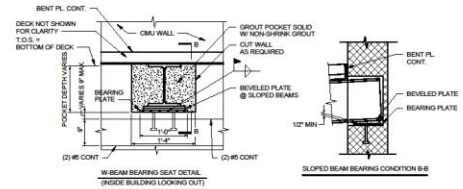
5 BEAM POCKET
3/4" = 1'-0"



LH AND K-SERIES JOIST BEARING SEAT DETAIL
(INSIDE BUILDING LOOKING OUT)

1. CUT AND FORM POCKET AS REQUIRED.
2. FORM AND FILL VOID WITH NON-SHRINK GROUT AFTER JOIST SEAT IS WELDED TO SEAT.
3. K-SERIES JOIST SEAT DEPTH SHALL BE 3 1/2" AND LH SERIES JOIST SEAT DEPTH SHALL BE 6 1/2". GABLE JOIST SEAT DEPTH WILL VARY. SEE SECTIONS ACCORDINGLY.

6 JOIST BEARING DETAIL
1" = 1'-0"

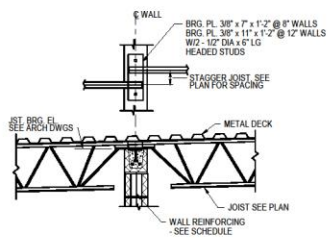


W-BEAM BEARING SEAT DETAIL
(INSIDE BUILDING LOOKING OUT)

SLOPED BEAM BEARING CONDITION B-B

1. CUT AND FORM POCKET AS REQUIRED.
2. FORM AND FILL VOID WITH NON-SHRINK GROUT AFTER W-BEAM IS WELDED TO SEAT.
3. FOR CMU WALL ADDITIONAL VERTICAL REINFORCING, SEE DETAIL

7 W-BEAM BEARING DETAIL
1" = 1'-0"



8 TYPICAL JOIST STAGGER
3/4" = 1'-0"

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SECTIONS AND DETAILS

S4.01

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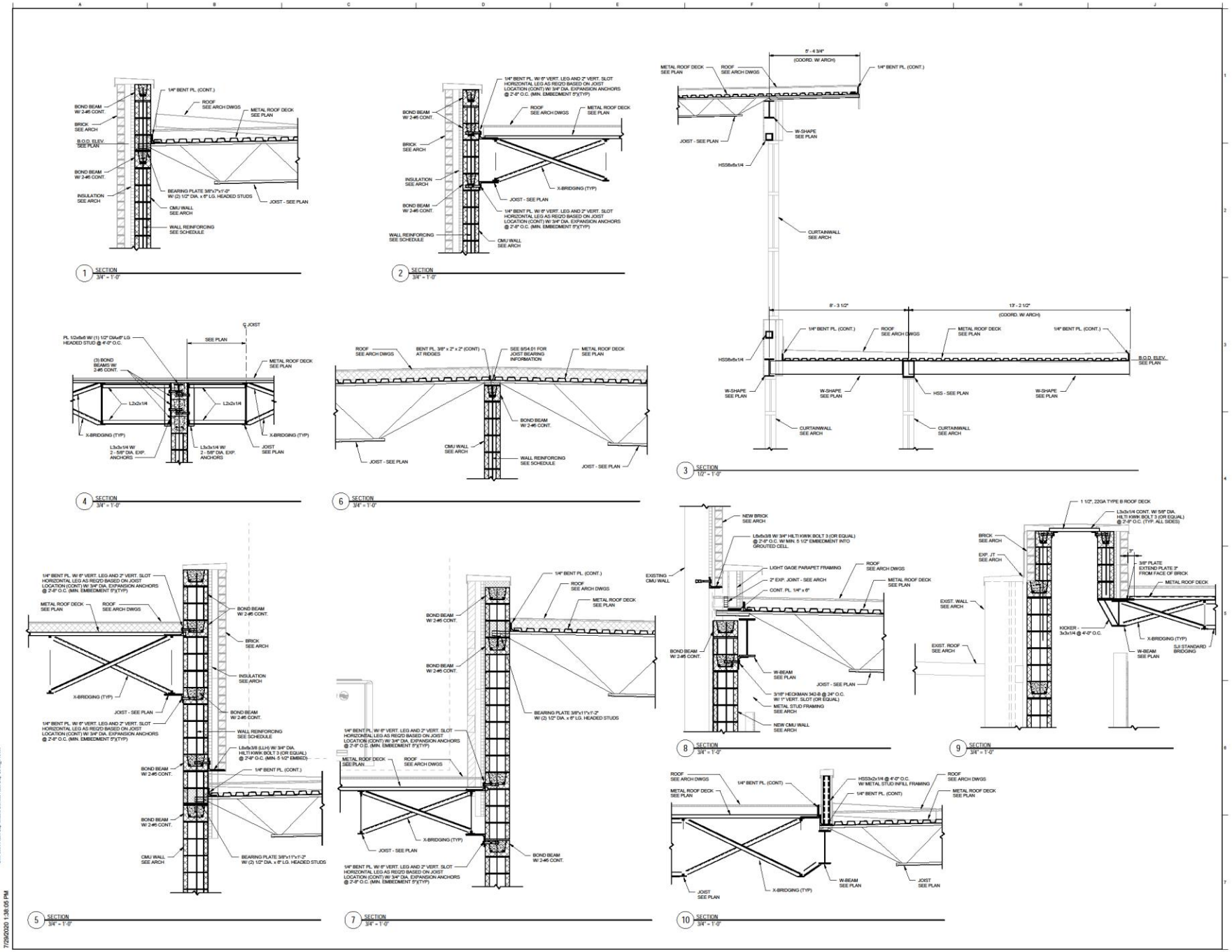

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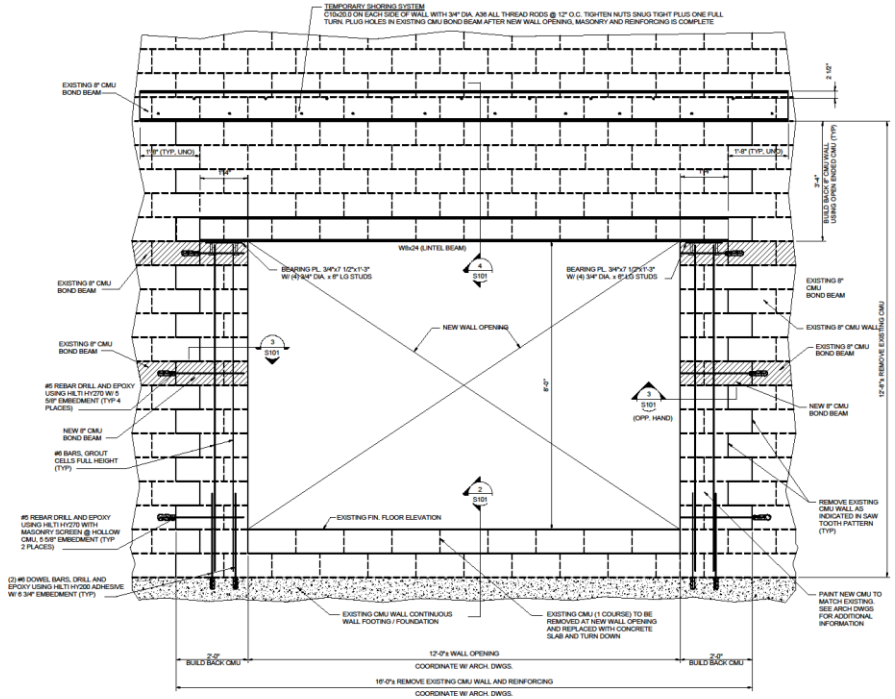
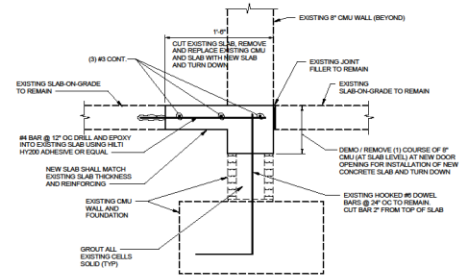
S4.02



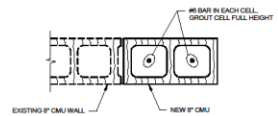
TYPICAL NEW SINGLE WALL OPENING IN EXISTING WALL

SEE ARCHITECTURAL DRAWINGS FOR WALL AND OPENING LOCATION (TYP)

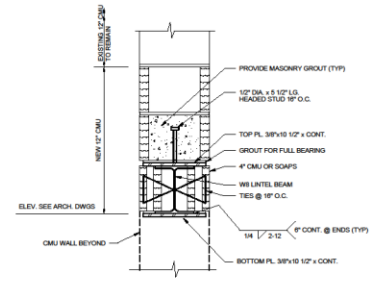
1 DETAIL
3/4" = 1'-0"



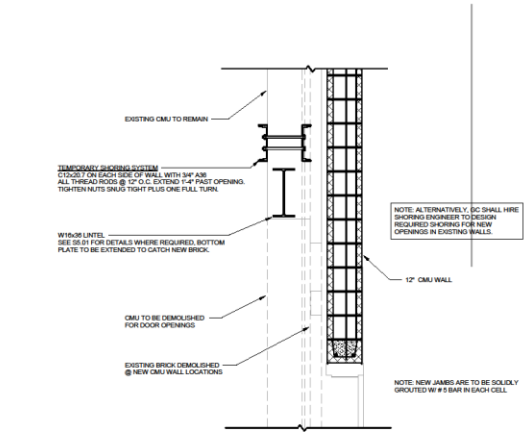
2 SECTION
1 1/2" = 1'-0"



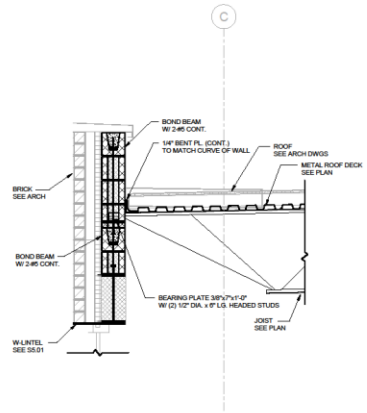
3 SECTION
1 1/2" = 1'-0"



4 SECTION
1 1/2" = 1'-0"



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

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S4.03

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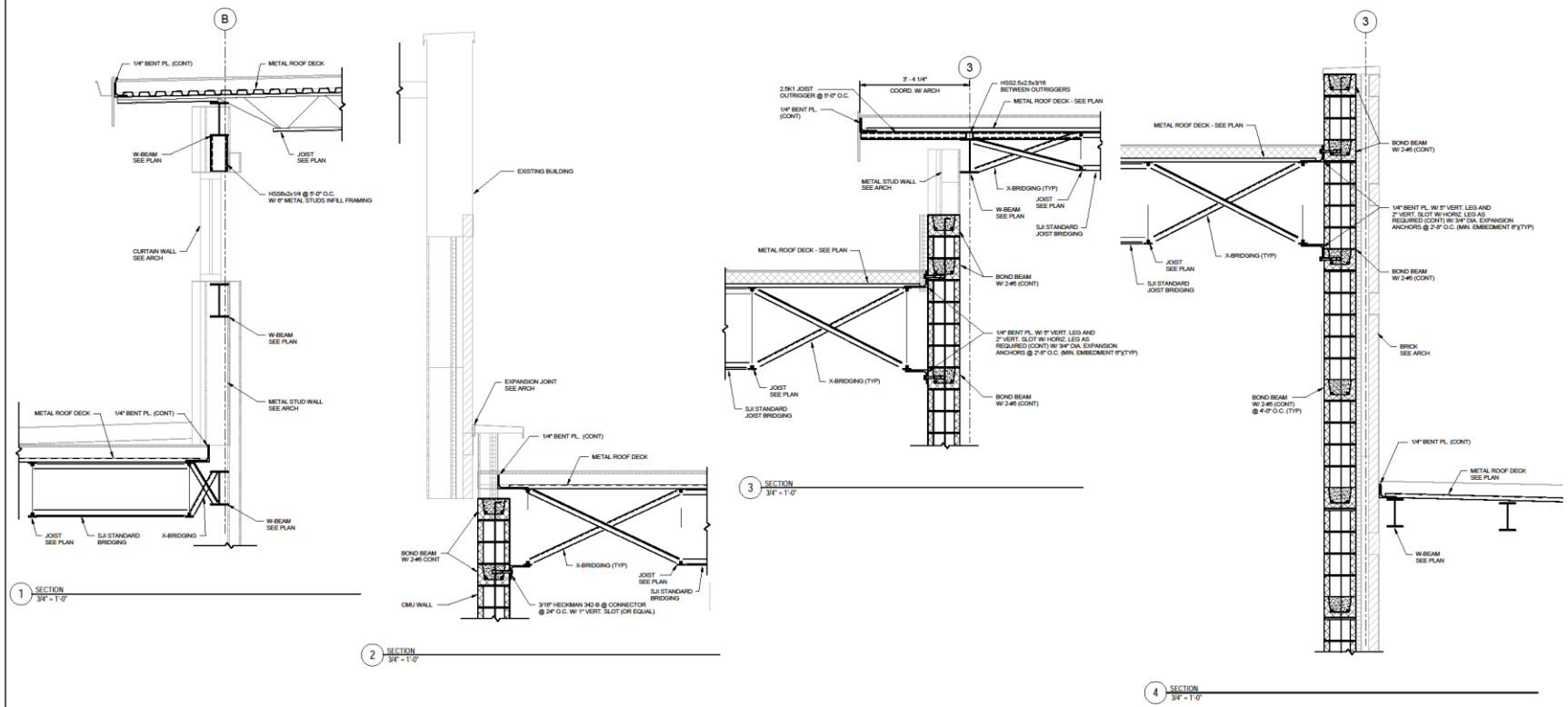

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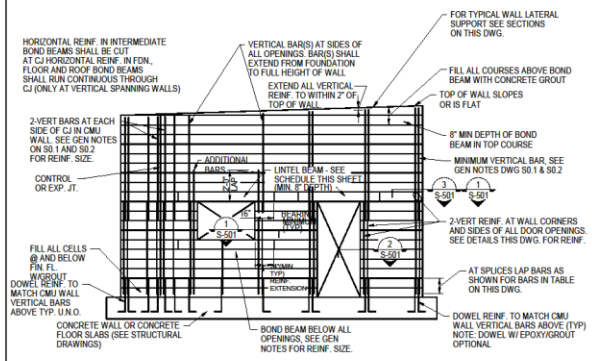
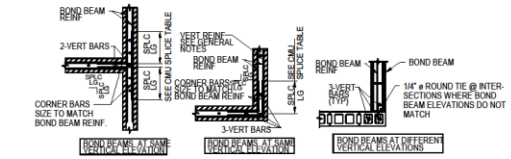
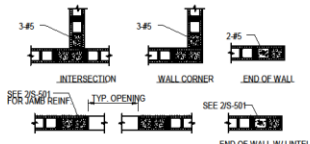


TYPICAL ELEVATION AT CMU WALL (EXTERIOR / INTERIOR)
SCALE: NONE
NOTE: SEE ARCH PLAN DWGS FOR CMU WALLS.
WALL REINFORCING SHOWN ABOVE IS MIN. REQUIRED IN WALLS. ADDITIONAL WALL REINFORCING, SIZES AND SPACING ARE GIVEN IN CMU WALL REINF. SCHEDULE, SECTIONS AND DETAILS.



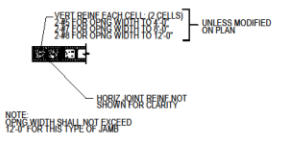
BOND BEAM REINFORCING AT WALL INTERSECTIONS

3 DETAIL NONE



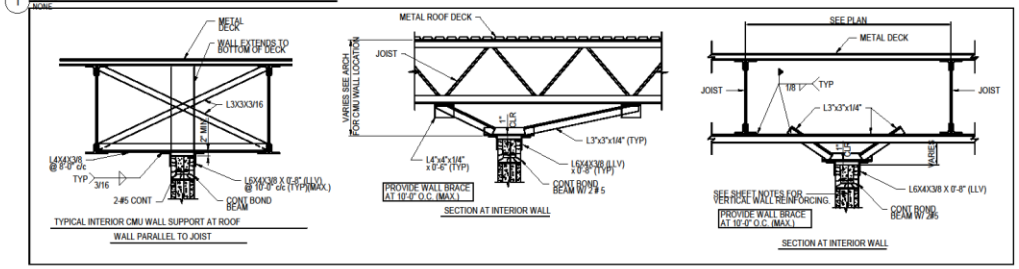
TYPICAL CONCRETE MASONRY UNIT DETAILS

1 DETAIL NONE



2 SECTION NONE

NOTES:
1. ALL CMU SHALL BE REINFORCED AS INDICATED, ON PLANS, SECTIONS, DETAILS INCLUDING ADDITIONAL REINFORCING AT ALL OPENINGS. TYPICAL CONDITIONS SHOWN ON THIS DRAWING ARE GENERAL AND SHALL BE USED TO COVER ALL CONDITIONS U.N.O.
2. ALL WALLS SHALL BE LATERALLY SUPPORTED AT TOP OR AT INTERFACE WITH STRUCTURAL MEMBERS (TYP) U.N.O.
3. PROVIDE 3/4" MIN. GAP BETWEEN CMU AND BOTTOM OF SLAB OR STEEL, ETC. AND PROVIDE COMPRESSIBLE FILLER IN GAP THAT MAINTAINS FIRE RATING.
4. VERTICAL REINFORCING SHALL BE CONTINUOUS THRU LINTEL OR BOND BEAMS.
5. PROVIDE 16" MINIMUM BEARING FOR ALL CMU LINTELS.
6. ALL CELLS THAT CONTAIN REINFORCING BARS SHALL BE GROUTED SOLID.
7. FOR GENERAL NOTES, SEE DRAWINGS S0.1 AND S0.2.
8. ALL STRUCTURAL STEEL ROLLED SHAPES AND PLATES SHALL BE ASTM GRADE 36 OR BETTER.

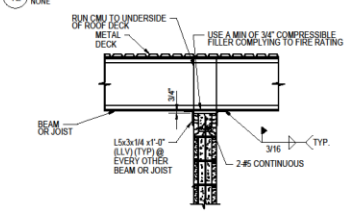


TYPICAL INTERIOR CMU WALL SUPPORT AT ROOF WALL PARALLEL TO JOIST

SECTION AT INTERIOR WALL

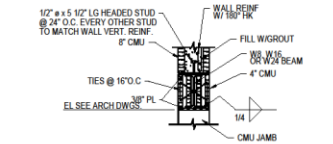
SECTION AT INTERIOR WALL

12 DETAIL NONE

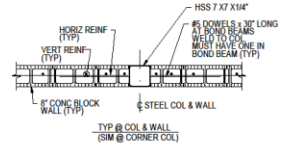


TYPICAL INTERIOR CMU WALL BRACING PERPENDICULAR TO JOIST

4 DETAIL NONE

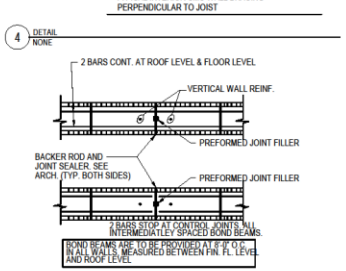


5 DETAIL NONE



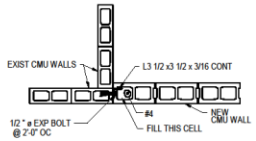
TYP @ COL & WALL (SIM @ CORNER COL)

6 DETAIL NONE



NOTE: SEE ARCH AND STRUCTURAL DWGS FOR CONTROL JOINT LOCATIONS

7 DETAIL NONE



TYPICAL DETAIL OR SIMILAR AT ALL EXST & NEW CMU WALLS

8 DETAIL NONE

TYPICAL CMU LINTEL SCHEDULE

MAXIMUM CLR OPENING	WIDTH	DEPTH	HORIZONTAL REINF BOTTOM	HORIZONTAL REINF TOP	STIRRUPS
4'-0"	8"	8"	2-#4	—	#3 @ 12"
6'-0"	8"	1'-4"	2-#5	2-#4	#3 @ 12"
8'-0"	8"	1'-4"	2-#5	2-#4	#3 @ 12"
10'-0"	8"	1'-4"	2-#5	2-#4	#3 @ 12"
12'-0"	8"	2'-0"	2-#6	2-#6	#3 @ 12"
4'-0"	6"	8"	2-#4	—	#3 @ 12"
6'-0"	6"	1'-4"	2-#5	2-#4	#3 @ 12"
8'-0"	6"	1'-4"	2-#5	2-#4	#3 @ 12"
4'-0"	12"	8"	2-#5	—	#3 @ 12"
6'-0"	12"	1'-4"	2-#5	2-#5	#3 @ 12"
8'-0"	12"	1'-4"	2-#6	2-#5	#3 @ 12"
10'-0"	12"	1'-4"	2-#7	2-#5	#3 @ 12"
12'-0"	12"	2'-0"	2-#7	2-#6	#3 @ 12"

NOTE: MINIMUM BEARING 16" EACH END

MAXIMUM CMU WALL UNSUPPORTED HEIGHT OR LENGTH			
	WALL THICKNESS	EXTERIOR WALL NON-LOAD BEARING	INTERIOR NON-LOAD BEARING WALL
MAX HEIGHT OR LENGTH BETWEEN SUPPORTS	8"	12'-0"	24'-0"

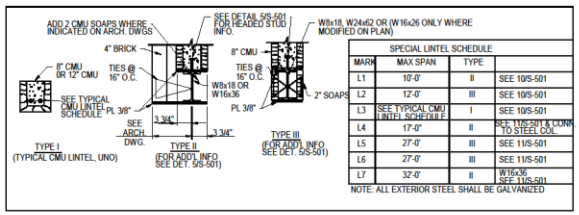
NOTE:CMU WALL MAXIMUM LATERAL SUPPORT SPACING GIVEN IN SECTIONS AND DETAILS SHALL SUPERCEDE THE ABOVE SCHEDULE REQUIREMENTS.

BRICK/BLOCK LINTEL SCHEDULE

SPAN	4" BRICK/BLOCK	8" BLOCK	REMARKS
SPANS UP TO 5'-0"	1 - L3 1/2 x3 1/2 x 5/16	2 - L3 1/2 x3 1/2 x 5/16	NOTE: AT ALL SINGLE ANGLES, ADD CLOSURE PIECE AS REQ'D PER ARCH. DWGS
5'-0" TO 7'-0"	1 - L4x3 1/2 x 5/16 (LLV)	2 - L4x3 1/2 x 5/16 (LLV)	
7'-0" TO 8'-0"	1 - L5x3 1/2 x 5/16 (LLV)	2 - L5x3 1/2 x 5/16 (LLV)	
8'-0" TO 9'-0"	1 - L5x3 1/2 x 3/8 (LLV)	2 - L5x3 1/2 x 3/8 (LLV)	
9'-0" TO 12'-0"	1 - L7x4 x 3/8 (LLV)		

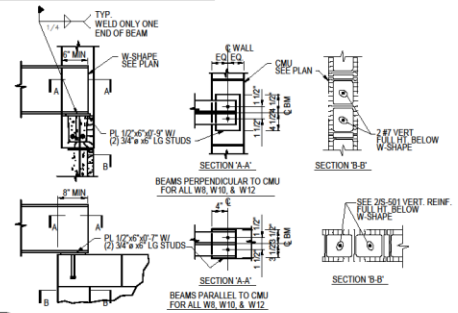
CLOSURE PIECE

NOTE: MINIMUM BEARING 6" ALL EXTERIOR STEEL SHALL BE GALVANIZED

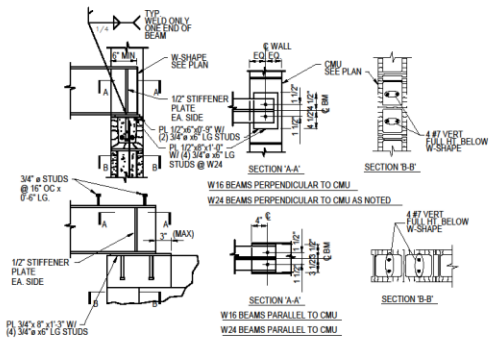


SPECIAL LINTEL SCHEDULE			
MARK	MAX SPAN	TYPE	
L1	10'-0"	II	SEE 10/S-501
L2	12'-0"	III	SEE 10/S-501
L3	SEE TYPICAL CMU LINTEL SCHEDULE	I	SEE 10/S-501
L4	17'-0"	II	SEE 11/S-501 & CONN TO STEEL COL.
L5	27'-0"	III	SEE 11/S-501
L6	27'-0"	III	SEE 11/S-501
L7	32'-0"	II	W16x36 SEE 11/S-501

NOTE: ALL EXTERIOR STEEL SHALL BE GALVANIZED



10 DETAIL NONE



11 DETAIL NONE

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NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER))

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19055.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

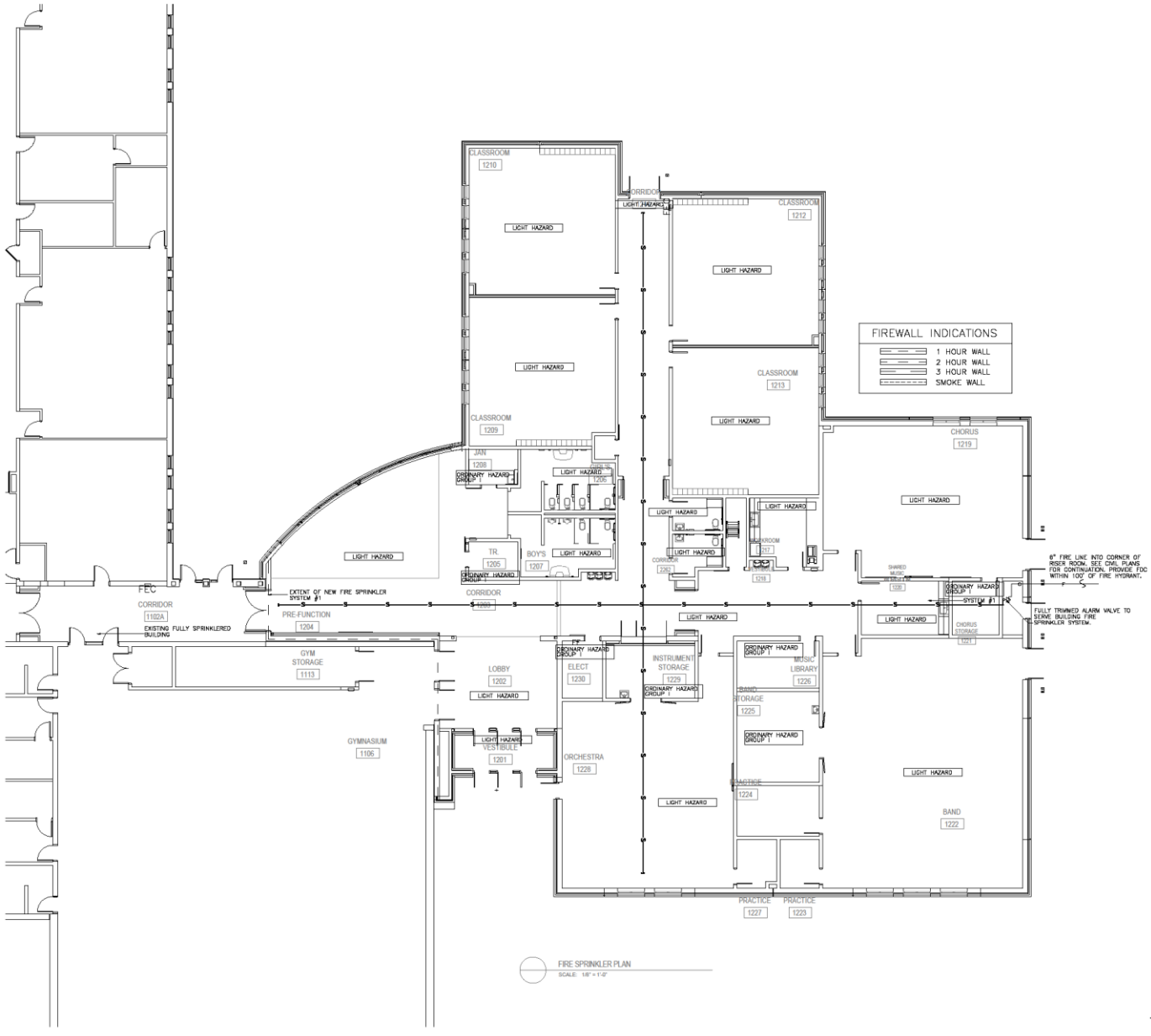
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

MASONRY DETAILS

S5.01

7/24/2020 8:40:06 AM
BIM 360://Haut Gap Middle School/Haut Gap Struc_V19.rvt



FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

OWENS AND ASSOCIATES, INC
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CORPORATE SEAL

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PROJECT NUMBER: 19095.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT
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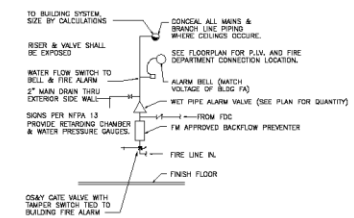
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 2 SPRINKLER PLAN

FS1.01

GENERAL FIRE SPRINKLER NOTES

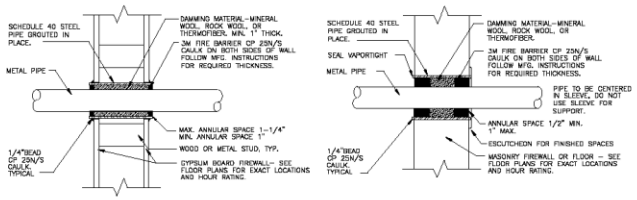
1. SEE ARCHITECTURAL PLANS AND GENERAL SECTIONS OF SPECIFICATIONS FOR DESCRIPTIONS OF ALTERNATES.
2. CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR CONTRACTORS WHO ARE APPROVED TO BID ON THIS PROJECT.
3. ALL SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL SUBMITTAL TO LLR.
4. CONTRACTOR SHALL REFER TO DETAILS FOR ALL FIREWALL PENETRATIONS. ALL WALL/FLOOR PENETRATIONS RATED OR OTHERWISE SHALL BE SLEEVED. SEE SPECIFICATIONS.
5. THE SPRINKLER CONTRACTOR SHALL PROVIDE A COMPLETE FIRE SPRINKLER SYSTEM AS SHOWN ON THE GENERAL LAYOUT FIRE SPRINKLER PLANS. THE EXACT PIPE ROUTING, SIZES, NUMBER/LOCATION OF HEADS, AND ALL OTHER REQUIREMENTS OF NFPA SHALL BE DETERMINED BY HYDRAULIC CALCULATION BASED UPON THE FIRE SPRINKLER SPECIFICATION SHEET.
6. THE DESIGN OF THE FIRE SPRINKLER SYSTEM SHALL BE BASED UPON THE HAZARD CLASSIFICATIONS WITH FLOW DENSITY AND AREA AS SPECIFIED ON THE FIRE SPRINKLER SPECIFICATION SHEET. THE INSTALLATION OF ALL SYSTEMS AND COMPONENTS SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF NFPA 13, 14, 20, 24 AND THE INTERNATIONAL BUILDING AND FIRE CODES (IBC/IFC).
7. CONTRACTOR SHALL COORDINATE ALL HEAD LOCATIONS WITH MILLWORK, AND OTHER TRADES.
8. CONTRACTOR SHALL LOCATE GUARDS ON SPRINKLER HEADS IN TELECOM ROOMS, ELECTRICAL ROOMS, AND OTHER ROOMS WITH SENSITIVE ELECTRICAL EQUIPMENT TO SHIELD SAID EQUIPMENT FROM DIRECT WATER FLOW.
9. ALL WET PIPE SPRINKLER PIPING SHALL BE SCHEDULE 40, BLACK STEEL. ALL DRY PIPE SPRINKLER PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL. SEE SPECIFICATIONS. PIPING SHALL BE CONTINUOUSLY MARKED AS REQUIRED BY NFPA. ALL PIPE AND FITTINGS SHALL BE MADE IN THE USA.
10. THE CONTRACTOR IS INSTRUCTED TO VISIT THE SITE PRIOR TO SUBMITTING A BID TO FAMILIARIZE HIMSELF WITH ALL WORK TO BE ENCOUNTERED. NO EXTRA CHARGE WILL BE APPROVED AFTER START OF CONSTRUCTION FOR FAILURE TO FOLLOW THESE INSTRUCTIONS.
11. EQUIPMENT SHOWN ON THE GENERAL LAYOUT PLANS AND DETAILS ARE A MINIMUM REQUIREMENT OF THE CONTRACT.
12. SPRINKLER PIPING SHALL BE SEISMICALLY RESTRAINED PER SPECIFICATIONS, NFPA 13 AND THE INTERNATIONAL BUILDING CODE. PROVIDE CLEARANCES BETWEEN PIPE AND PIPE SLEEVES AS OUTLINED IN THE SEISMIC SEPARATION / CLEARANCES SECTION OF NFPA 13. FOR SPRINKLER PIPING PASSING THROUGH FIREWALLS THAT REQUIRE FIRESTOPPING, FLEXIBLE COUPLINGS SHALL BE LOCATED WITHIN 12 INCHES ON EITHER SIDE OF PENETRATION.
13. THE MAXIMUM VELOCITY IN ANY PORTION OF THE SPRINKLER SYSTEM MAIN OR BRANCH PIPING SHALL NOT EXCEED 25 FT/S.
14. SPRINKLER HEADS SHALL BE PIPED WITH HARD PIPE FROM THE BRANCH LINE. FLEXIBLE CONNECTIONS ARE ADDITIONALLY ACCEPTABLE.
15. SPRINKLER HEADS SHALL BE LOCATED "CENTER TILE" AND ALL HEADS SHALL BE CONCEALED TYPE.



WET PIPE RISER DETAIL

NO SCALE

NOTE:
ALL FIRE CAULKING SHALL BE PERFORMED BY THE FIRE CAULK SUBCONTRACTOR PER SPECIFICATION 07840.



UL SYSTEM #WL–1003
1 OR 2 HOUR

UL SYSTEM #CAJ1001
1, 2 OR 3 HOUR

PIPE FIREWALL PENETRATION DETAILS

NO SCALE

FIRE SPRINKLER DETAILS
NO SCALE

Fire Sprinkler System Specification Sheet
(by AHJ if IS)

Project Data

Project name: HAUT GAP MIDDLE SCHOOL

Location in South Carolina: Address (street & street name): 1581 ROBERT ED — State project: n/a
City: JOHNS ISLAND, SC — County: CHARLESTON — State project #: N/A

Water Supply Information
(flow test info must be less than 1 year old per SBACO)

Date test conducted: 03-03-2020 — Static pressure (psig): 70 — Residual pressure (psig): 52 — Flow (gpm): 920
Distances of test gauges relative to the base of the riser: Horizontal (ft): 1000 — Vertical (elevation difference in ft): +5
Source of water supply: Municipal system — Pipe Size: 8x12 8"
Test data by/from: Name: KEISHY GAGNON — Title: N/A
Organization: BCRD — Telephone #: 843-795-7390
Fire pump: Yes / No — Pump Capacity (gpm): N/A — Churn Pressure (psi): N/A
Electric Motor / Diesel Engine — Rated Pressure (psi): N/A — Pressure @ 150% flow (psi): N/A
Gravity storage tank: Yes / No — Gallons in System — Tank capacity (gallons):

NFPA Hazard Classification
(attach conversation page when necessary)

Area #	Class or Code Reference	Description of Hazard Protected (use other description, storage height and arrangement as applicable)
1	LIGHT HAZARD	CLASSROOMS, CAFETERIA
2	ORDINARY HAZARD (GP1)	KITCHEN (PER KITCHEN HOOD SYSTEM) AND MECHANICAL/ELECTRICAL ROOMS

Design Parameters
(attach calculation page when necessary)

Area #	System Type	Density (gpm/ft²) / Area (ft²) or Other (reference code section)	Inside Hose (gpm)	Outside Hose (gpm)
1	WET PIPE	0.10 GPM/SF / 1500 SF	0/0 FM	100 LPM
2	WET PIPE	0.15 GPM/SF / 1500 SF	0/0 FM	250 GPM

Seismic Design Data: Sp=0.33

Codes and Standards
(attach calculation page when necessary)

Applicable Codes, Standards & Editions for the Scope of Work on the Sprinkler System

SPRINKLER SYSTEM - NFPA 13 2013, IBC 2015

Scope of work: 1 wet pipe sprinkler system for the building. Sprinkler system to be installed in accordance with NFPA 24 for fire sprinkler underground work and NFPA 13 for sprinkler system.

Specifier's Information

Name: Coleman C. Owens, III, P.E.
Engineering services provided through a Firm: Yes
Firm name: Owens and Associates, Inc.
Address: 1007 Lake Hunter Circle
City: Mount Pleasant
State: South Carolina — Zip: 29464
Phone #: 843 849 6052 — Fax #: 843 849 6157
E-mail: colle@owensinpe.com

Certificate of Authorization — Professional Engineer's Seal

Revision No.: 0 — Page: 1 of 1 — Signature: — Date:

FIRE SPRINKLER DETAILS

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1007 LAKE HUNTER CIRCLE
MT. PLEASANT, SC
29464

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CORPORATE SEAL

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT
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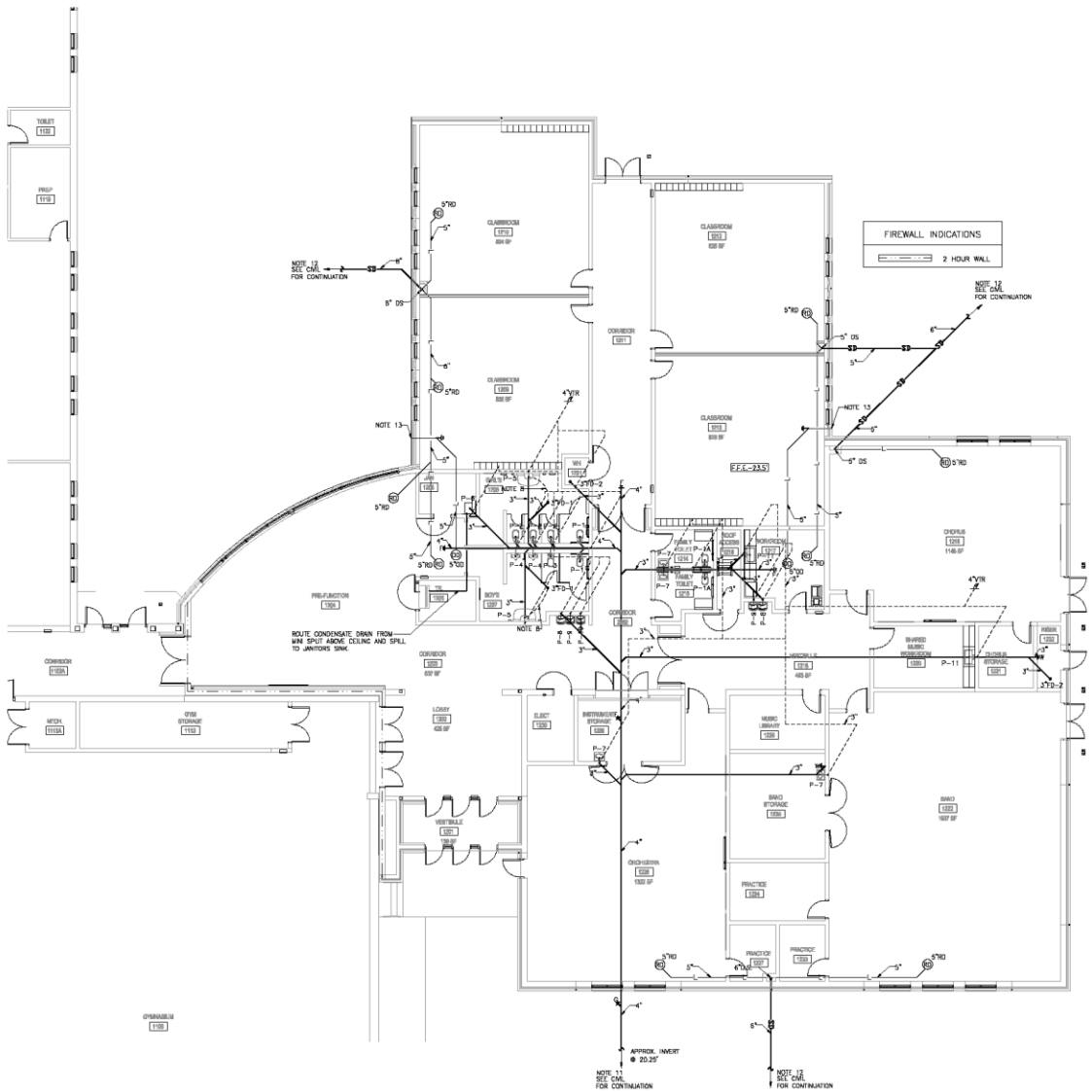
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

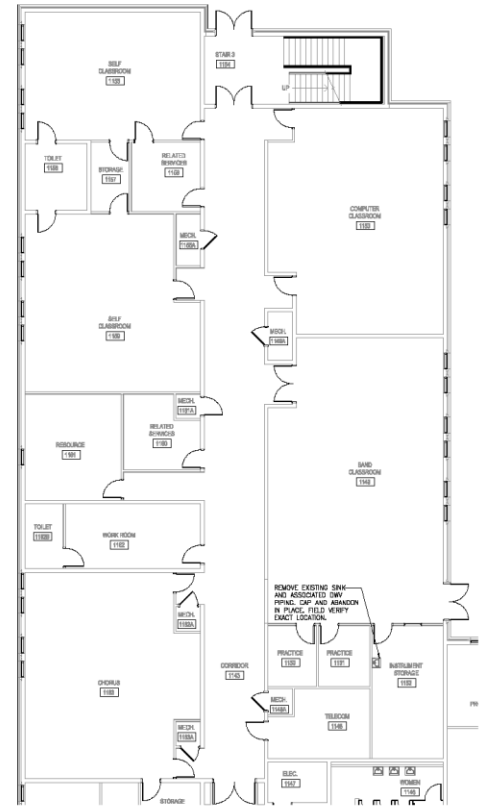
FIRE SPRINKLER DETAILS

FS2.01



1 LEVEL 1 AREA 2 - DRAIN, WASTE, AND VENT PIPING PLAN

SCALE: 1/8" = 1'-0"



2 LEVEL 1 AREA 1 - DRAIN, WASTE, AND VENT PIPING PLAN FOR EXISTING SINK

SCALE: 1/8" = 1'-0"

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NORTH CHARLESTON, SOUTH CAROLINA 29405

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CORPORATE SEAL

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7-30-20
REGISTERED
ARCHITECT/ENGINEER SEAL

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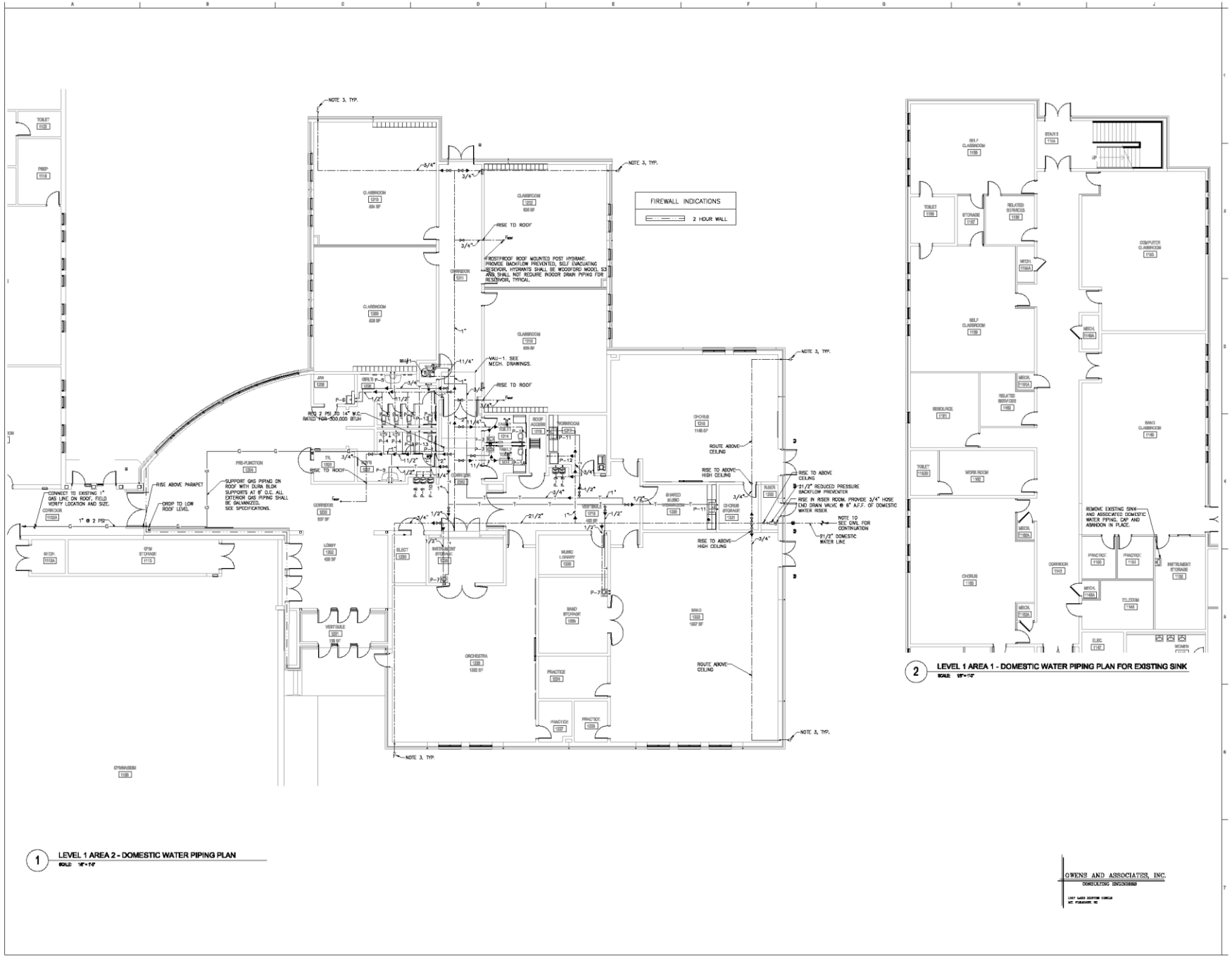
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 2 - DWV PIPING PLAN

P1.01



1 LEVEL 1 AREA 2 - DOMESTIC WATER PIPING PLAN

SCALE: 1/8" = 1'-0"

2 LEVEL 1 AREA 1 - DOMESTIC WATER PIPING PLAN FOR EXISTING SINK

SCALE: 1/8" = 1'-0"

OWENS AND ASSOCIATES, INC.
CONSULTING ENGINEERS

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ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19305.00
DATE: 7.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 2 - DOMESTIC WATER PIPING PLAN

P1.02

PLUMBING FIXTURE MATERIAL SCHEDULE

P-NO.	FIXTURE	MANUFACTURER	MODEL NUMBER	TYPE/SIZE	MOUNTING	REMARKS
P-1	WATER CLOSET	AMERICAN STANDARD	3043.102	ELONGATED	FLOOR	ZURN #Z86000AV-1.6 F.VALVE 17.5" AFF TO RIM
P-1A	WATER CLOSET	AMERICAN STANDARD	3043.102	ELONGATED	FLOOR	MANUAL 1.6 F.VALVE 17.5" AFF TO RIM
P-2	WATER CLOSET	AMERICAN STANDARD	2234.015	ELONGATED	FLOOR	ZURN #Z86000AV-1.6 F.VALVE 14.5" AFF TO RIM
P-3	URINAL	AMERICAN STANDARD	6541.132	3/4"TOPSPUD 2" OUTLET	WALL	ZURN #Z86003AV-1.0 F.VALVE 17" AFF TO LIP ZURN #1222 CARRIER
P-4	URINAL	AMERICAN STANDARD	6541.132	3/4"TOPSPUD 2" OUTLET	WALL	ZURN #Z86003AV-1.0 F.VALVE 24" AFF TO LIP ZURN #1222 CARRIER
P-5	EXPRESS LAVATORY	ACORN OR EQUAL BY WILLOUGHBY OR BRADLEY	3644-1-H (4-STA.) CUSTOM COLOR	46" X 26"	WALL HUNG	FOUR STATION MODULE, CAST POLYMER BOWL & SPRAY COVER COLOR BY ARCHITECT. PROVIDE WITH ASSE 1070 COMPLIANT TEMPERATURE/PRESSURE BALANCING MIXING VALVE WITH INTEGRAL CHECKS AND STRAINERS IN HOT AND COLD SUPPLIES. PROVIDE GRID STRAINER AND WASTE TAIL PIECE WITH HAND OPERATION AIR CONTROLLED METERING RANGE 5-90 SECONDS W/ LESS THAN 5-LBF AND VANDAL RESIST. 0.5 GPM SPRAY NOZZLES. PROVIDE VANDAL RESISTANT, S.S MOUNTING FRAME AND HEAVY DUTY SINK CARRIER PROVIDE 2-1.5" P-TRAPS. PROVIDE 5 YEAR PARTS & LABOR WARRANTY ON ENTIRE UNIT.
P-6	SINK JANITOR	AMERICAN STANDARD	7741.000	28X28X12"	FLOOR	CHICAGO #956-V9R & HOSE,#853 WALL HOOK #7745.811 RIM GUARD #7721.038 DRAIN
P-7	LAVATORY	AMERICAN STANDARD	0356.015	20" X 18"	WALL HUNG	VITREOUS CHINA CHICAGO #786-CP ANTI-LIFT LUGS ZURN #1231 CARRIER #155-A STRAINER TRUEBRO #106-W
P-8	ELECTRIC WATER COOLER	HALSEY-TAYLOR	HTHBHWRB-NF	- - -	WALL HUNG	BOTTLE FILLING STATION NON-FILTERED VANDAL RESISTANT 11/4" 17 GA. P-TRAP ZURN #1233 CARRIER STAINLESS STEEL CABINET 1/2" SUPPLY STOP
P-9	ELECTRIC WATER COOLER	HALSEY-TAYLOR	HWRB-CHILD ADA	- - -	WALL HUNG	VANDAL RESISTANT 11/4" 17 GA. P-TRAP ZURN #1233 CARRIER STAINLESS STEEL CABINET 1/2" SUPPLY STOP
P-10	ELECTRIC WATER COOLER	HALSEY-TAYLOR	HWRB-CHILD ADA	- - -	WALL HUNG	VANDAL RESISTANT 11/4" 17 GA. P-TRAP ZURN #1233 CARRIER STAINLESS STEEL CABINET 1/2" SUPPLY STOP
P-11	SINK CLASSROOM/ WORKROOM	JUST	SL-1921-A-GR	SELF- RIM 19"X21"X6.5"	COUNTER TOP	18 GAUGE, 1 HOLE 17 GA. CONT. WASTE CHICAGO #50-E3-CP-VPC
P-12	ICE MAKER BOX	IPS WATER-TITE	82068	- - -	RECESSED	SOLID BLOCKING 1/4 TURN BALL VALVE
P-13	WALL HYDRANT	ZURN	Z1320-C	- - -	RECESSED	SELF-DRAINING, NON-FREEZE, ANTI-SIPHON WALL HYDRANT WITH VANDAL RESISTANT INTEGRAL VACUUM BREAKER WITH CHROME PLATED ROUGH BRONZE BOX

PLUMBING FIXTURE CONNECTION SCHEDULE

ITEM	FIXTURE	MIN. INDIVIDUAL CONNECTION DRAIN	VENT	C. W.	H. W.	GAS	REMARKS
P-1/ P-1A	WATER CLOSET	4"	2"	1"	–	–	HANDICAPPED / FLOOR MOUNT RIM 17.5"
P-2	WATER CLOSET	4"	2"	1"	–	–	STUDENT/ FLOOR MOUNT RIM 14.5"
P-3	URINAL	2"	2"	3/4"	–	–	HANDICAPPED /WALL CARRIER RIM 17"
P-4	URINAL	2"	2"	3/4"	–	–	STUDENT /WALL CARRIER RIM 24"
P-5	EXPRESS LAVATORY	2"	2"	3/4"	3/4"	–	HANDICAPPED / WALL CARRIER / RIM 33"
P-6	SINK, JANITOR	3"	2"	3/4"	3/4"	–	FLOOR MOUNTED / FAUCET @ 48" AFF
P-7	LAVATORY	2"	2"	1/2"	1/2"	–	HANDICAPPED / WALL CARRIER / RIM 33"
P-8	ELECTRIC WATER COOLER	2"	2"	1/2"	1/2"	–	HANDICAPPED/ WALL CARRIER RIM 33" W/ BOTTLE FILLER
P-9	ELECTRIC WATER COOLER	2"	2"	1/2"	–	–	HANDICAPPED / WALL CARRIER / RIM 33"
P-10	ELECTRIC WATER COOLER	2"	2"	1/2"	–	–	HANDICAPPED / WALL CARRIER RIM 40"
P-11	SINK CLASSROOM/WKRM	2"	2"	1/2"	1/2"		COUNTER-TOP RIM 34"
P-12	ICE MAKER BOX	–	–	1/2"	–	–	6' COIL SOFT COPPER & CONNECT
P-13	WALL HYDRANT	–	–	1/2"	–	–	RECESS BOX MOUNT @ 18"AFF.

NOTE: COORDINATE COUNTER MOUNTED FIXTURES WITH MILLWORK DETAILS. VERIFY PRIOR TO ROUGHING.

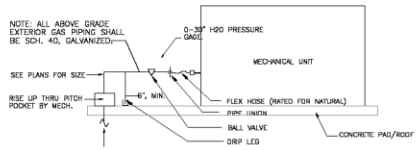
PLUMBING SYMBOLS

- SOIL OR WASTE
- VENT
- CW COLD WATER
- HW HOT WATER (140°)
- HWR H.W. RETURN
- T TEMPERED WATER (115°)
- HT HIGH TEMPERATURE (180°)
- HTR HIGH TEMP RETURN
- A AIR PIPING
- D DRAIN LINE
- F FIRE LINE
- G GAS (NATURAL OR L.P.)
- GAS PIPE IN CONDUIT
- L LEADER PIPING
- N NITROGEN GAS
- O OXYGEN
- S SPRINKLER LINE
- V VACUUM
- AW ACID WASTE DRAIN
- CD CONDENSATE DRAIN
- RO R.O. WATER (PURE)
- SD STORM DRAIN
- PIPE UNION
- PIPE REDUCER
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PLUG VALVE
- GATE VALVE IN C.I. BOX
- FLOOR CLEANOUT
- WALL CLEANOUT
- GRADE CLEANOUT
- H.B. HOSE BIBB
- FROSTPROOF WALL HYDRANT
- FD FLOOR DRAIN
- OD OVERFLOW DRAIN
- RD ROOF DRAIN
- DS DOWN SPOUT
- AD AIR OUTLET
- CD CONDENSATE HUB DRAIN
- WD WASTE DOWN
- WFA WASTE FROM ABOVE
- CWU COLD WATER UP
- CWFB COLD WATER FROM BELOW
- HWU HOT WATER UP
- HWFB HOT WATER FROM BELOW
- VU VENT UP
- VTB VENT FROM BELOW
- VTR VENT THROUGH ROOF
- AVTR ACID VENT THROUGH ROOF
- "C"s SHOCK WITH FOI SIZE

NOTE : THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE DRAWINGS, HOWEVER WHERE THE SYMBOL IS USED THE ITEM SHALL BE PROVIDED.

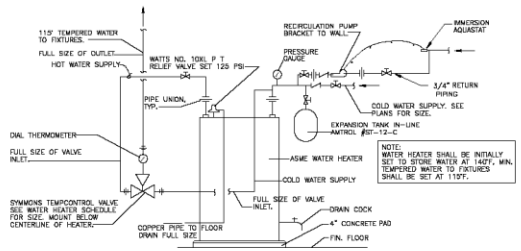
PLUMBING NOTES

1. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL ROUGH FROM ARCHITECTURAL EQUIPMENT MANUFACTURERS' DRAWINGS. SEE LARGE SCALE TOILET AND EQUIPMENT ROUGH-IN PLANS. LOCATE ALL COUNTER-TOP FIXTURES FROM ACTUAL DIMENSIONS ON MILLWORK SHOP DRAWINGS.2
2. FURNISH INTERIOR VANDAL PROOF HOSE-END VALVE WITH VACUUM BREAKER AT EACH LOCATION THE SYMBOL "H.B." IS INDICATED. SEE SPECS FOR MODEL NUMBER AND MOUNTING HEIGHT.
3. MOUNT EXTERIOR WALL HYDRANT 24" ABOVE FINISH GRADE OR SIDEWALK. DO NOT CUT THRU-WALL FLASHING. COORDINATE WITH MASONS TO WORK TO BRICK/BLOCK COURSING. ANCHOR WITH WALL PROTECT COPPER PIPE FROM DIRECT CONTACT WITH MASONRY.
4. LOCATE BALL VALVES IN COLD WATER LINES ABOVE LAY IN CEILING TILE. SEE SPECIFICATIONS SECTION 15040 FOR "NAMEPLATE" TO BE LOCATED ON WALL 4" BELOW CEILING. NAMEPLATE SHALL READ "VALVE". IF VALVE IS NOT CLOSE TO WALL, THEN POP-RIVET NAMEPLATE TO CEILING GRID.
5. OFFSET AND COLLECT VENTS ABOVE CEILINGS. LOCATE VENTS THRU ROOF TO AVOID BEAMS, VALLEYS, RIDGE, EDGE OF ROOF, CURBS, VENTS, AND PROVIDE 10' SEPARATION TO AIR INTAKE ON MECH. UNITS OR FANS. COORDINATE WITH THE HVAC CONTRACTOR ON SITE; ALSO SEE ARCHITECTURAL ROOF PLAN.
6. ALL VERTICAL PIPING IN NEW LOAD BEARING AND/OR CORRIDOR WALLS SHALL BE OFFSET OUT OF WALL (ABOVE CEILING) TO AVOID STEEL FRAMING MEMBERS OR STUD CHANNELS AT TOP OF WALL. SEE DETAILS ON ARCHITECTURAL DETAILS OR SECTION DRAWINGS. AVOID MECH. & ELECTRICAL EQUIPMENT.
7. PROVIDE FIRE RATED PIPE PENETRATION AROUND ALL PIPES PASSING THRU FIRE RATED WALLS. FIRE STOPPING SHALL MATCH HOUR RATING OF WALL. SEAL TIGHT AROUND ALL METAL PIPE PASSING THRU ONE FACE OF GYPSUM WALL. APPLY #N/S 25 CAULK AROUND PIPE TO COVER ANY VOIDS OR CRACKS.
8. CONTRACTOR SHALL INSTALL 11/2" P-TRAP TRAP PRIMER (EQUAL TO SMITH #2698-CP) AND CONNECT TO FLOOR DRAIN BELOW SLAB AS NOTED. INSTALL 1/2" K COPPER (SOFT DRAWN) FROM THE WALL TO THE DRAIN, NO JOINTS BELOW SLAB. ISOLATE COPPER BELOW GRADE WITH SLIP ON VINYL JACKET. FLOOR DRAINS INDICATED SHALL BE EQUIPPED WITH 1/2" TAPPING FOR PRIMER CONNECTION.
9. CONTRACTOR SHALL INSTALL NEW DOMESTIC WATER LINES INDICATED ON PLANS TO BE "ABOVE CEILING" NO MORE THAN 16" ABOVE THE LAY-IN TILE CEILING. CORRIDOR PIPING SHALL BE SUPPORTED WITH ANGLE BRACKETS AS DETAILED. BRANCH LINES THAT ARE NOT LOCATED IN CORRIDORS SHALL BE SUPPORTED WITH GALVANIZED SUPPLEMENTAL STEEL, BOLTED OR WELDED TO THE BUILDING STRUCTURE. COORDINATE ROUTING OF PIPING WITH OTHER TRADES.
10. CONTRACTOR SHALL CONNECT TO DOMESTIC WATER SERVICE LINES AT THE BUILDING 5' LINE AS INDICATED ON PLANS. PROVIDE GATE VALVE IN C.I. BOX. FIELD VERIFY EXACT LOCATION, SIZE AND DEPTH OF LINES. COORDINATE INTERFACE WITH SITE UTILITY CONTACTOR.
11. CONTRACTOR SHALL EXTEND BUILDING SANITARY SEWER PIPING FROM BUILDING AND CONNECT TO MANHOLE/PIPING PROVIDED BY SITE UTILITY CONTRACTOR. SEE CIVIL PLANS. FIELD VERIFY EXACT LOCATION, SIZE AND INVERT OF EACH MANHOLE/LINE. COORDINATE INTERFACE WITH SITE UTILITY CONTRACTOR.
12. CONTRACTOR SHALL INSTALL NEW CONDENSATE/ROOF DRAIN LINES AS INDICATED ON PLANS AND CONNECT TO NEW CATCH BASINS AS NOTED. SEE CIVIL PLANS FOR INVERTS. COORDINATE INTERFACE WITH SITE UTILITY CONTRACTOR.
13. PROVIDE ZURN MODEL#ZA915-199 NOZZLE FITTING ON EACH OVERFLOW DRAIN TO GRADE. TERMINATE PIPE AT EXTERIOR WALL AS SHOWN AND PROVIDE NOZZLE FITTING.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED AND INSPECTED THE SITE TO FAMILIARIZE HIMSELF WITH THE ACTUAL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
15. CONTRACTOR SHALL PROVIDE VIDEO CAMERA VERIFICATION OF ENTIRE UNDERGROUND DRAIN AND WASTE SYSTEM AT THE COMPLETION OF THE INSTALLATION OF ALL BELOW GRADE PIPE AND AT SUBSTANTIAL COMPLETION OF THE PROJECT TO VERIFY PROPER INSTALLATION, DRAINING AND INVERTS OF THE UNDERGROUND SYSTEM. THESE 2 VIDEOS SHALL BE VERIFIED BY THE SITE CONSTRUCTION MANAGER AND TURNED OVER TO THE OWNER AS PART OF THE CLOSEOUT DOCUMENTS.



MECHANICAL UNIT GAS PIPING DETAIL

NO SCALE



DOMESTIC WATER HEATER(WH-#1)

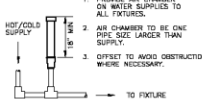
NO SCALE

WATER HEATER SCHEDULE

HTR. NO.	MODEL NO.	GALLONS	MOUNTING	WATTAGE	VOLTAGE	PHASE	LABEL	GAS	BTU INPUT	CIRCULATOR*	MIXING VALVE**
W.H. #1	SSE-40-6-1FE	40	CONC. PAD	5000	480	THREE	ASME	N/A	N/A	YES	SYMMONS #7-500A-W

PROVIDE 16 GA. GALV. SHEET METAL PAN WITH DRAIN FOR EACH HEATER.
PROVIDE 3/4" COPPER DRAIN TO EXTERIOR OR FLOOR DRAIN.
NOTE: WATER HEATER 1 SHALL BE AS SPECIFIED BY STATE INDUSTRIES, OR EQUAL MODEL DSE BY A.O. SMITH.
* - HW CIRCULATOR PUMPS SHALL BE 120V/1Ø, AND CAPABLE OF DELIVERING A MINIMUM OF 5 GPM @ 30' HEAD.
** - MIXING VALVES SHALL BE CAPABLE OF TEMPERATURE CONTROL AT 0.5 GPM MINIMUM FLOW RATE WITH RECIRCULATING TEMPERED WATER.

NOTE:
AIR CHAMBERS SHALL BE PROVIDED ON EACH FIXTURE SUPPLY IN ADDITION TO SHOCK ABSORBERS AS SHOWN ON PLANS.



1. PROVIDE AIR CHAMBER ON WATER SUPPLIES TO ALL FIXTURES.
2. AIR CHAMBER TO BE ONE PIPE SIZE LARGER THAN SUPPLY.
3. OFFSET TO AVOID OBSTRUCTION WHERE NECESSARY.

AIR CHAMBER

NO SCALE

CLEANOUT SCHEDULE

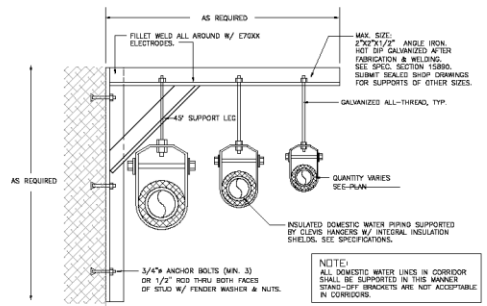
LOCATION	FINISH	SMITH	ZURN	WADE	JOSAM	OPTIONS
GRADE	———	4420	Z-1440-BP	8550-E	58900	RECESS BRASS PLUG & CONCRETE PAD
UNFINISHED	———	4420	Z-1440-BP	8550-B	58900	RECESS BRASS PLUG
WALL	———	4402-U	ZN-1441-BP-VP	B460-B450RB	58800-CO-VP	9" ROUND STAINLESS STEEL COVER. VP SCREW
FINISH FLR.	NICKEL BRONZE	- - -	ZN-1400-VP	B1344F-178	55000-1X-F-VP-22	ROUND SCORIATED COVER, VP SCREWS, CAULK
CARPET	NICKLE BRONZE	- - -	ZN-1400-CF-VP	B1344F-178-CF	55000-1X-F-22-VP	CARPET FLANGE, VP SCREW, CAULK JOINT

INSTALL WIDE FLANGE ON ALL CLEANOUTS IN DCK-O-TEX FLOORING: EQUAL TO #55000-1-WF-22.
SEE ARCHITECTURAL FINISH SCHEDULE FOR FLOORING FINISH MATERIALS.

FLOOR DRAIN SCHEDULE

NUMBER	SIZE	MATERIAL	ZURN	SMITH	WADE	JOSAM	OPTIONS (SEE NOTE 2)
FD-1	3"	NIKALOY	ZN-415 -TR-VP	2010-7A-U	1100-ST07-1-5-6	30003-7A-VP-K	V.P. TOP

1). SEE FLOOR PLAN FOR DRAINS REQUIRING TRAP PRIMMER CONNECTIONS.
2). COORDINATE DCK-O-TEX FLANGE REQUIREMENT WITH ARCHITECTURAL FINISH SCHEDULE AND PROVIDE AS REQUIRED. FLANGES SHALL BE CAST INTEGRAL TO DRAIN BODY. SHEETMETAL FLANGES ARE NOT ACCEPTABLE.
3). SEE SHEET FLOOR PLAN FOR CAN WASH DRAIN DESCRIPTION.



DOMESTIC WATER LINE ANGLE SUPPORT

NO SCALE

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OWENS AND ASSOCIATES, INC. NO. 00000 CONSULTING ENGINEERS

CORPORATE SEAL

REGISTERED PROFESSIONAL ENGINEER NO. 19997 1-30-20 CHARLES C. OWENS

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 1400620
DATE: 7.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

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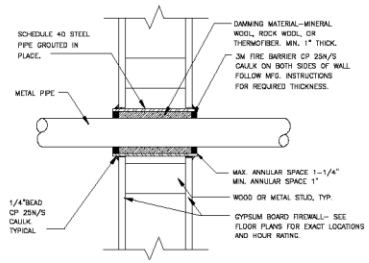
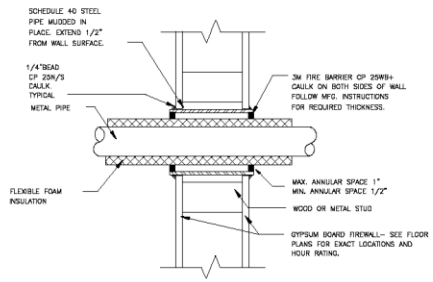
PLUMBING SCHEDULE AND DETAILS

P2.01



UL SYSTEM #WL-1003
1 OR 2 HOUR



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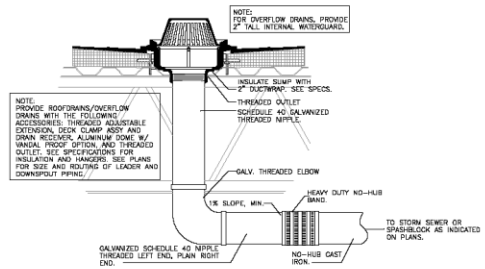

ROOF / OVERFLOW DRAIN DETAIL
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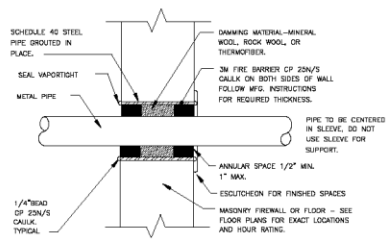
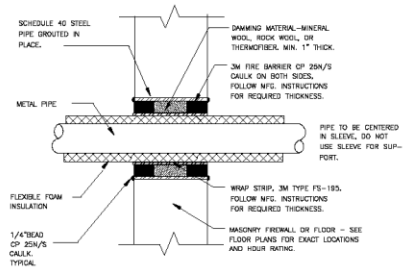


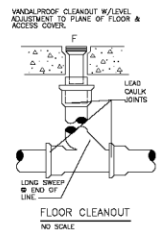
UL SYSTEM #CAJ1001
1, 2 OR 4 HOUR



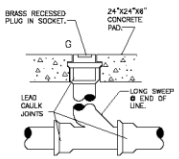
UL SYSTEM #CAJ5017
1, 2 OR 4 HOUR

PIPE FIREWALL PENETRATION DETAILS
NO SCALE

NOTE:
ALL FIRE CAULK TO BE PROVIDED BY FIRE CAULKING SUB-CONTRACTOR PER SPEC. 07840



FLOOR CLEANOUT
NO SCALE



GRADE CLEANOUT
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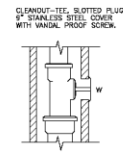

WALL CLEANOUT
NO SCALE

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CORPORATE SEAL

NO. 19997 7-31-20 REGISTERED ARCHITECT

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19095.00
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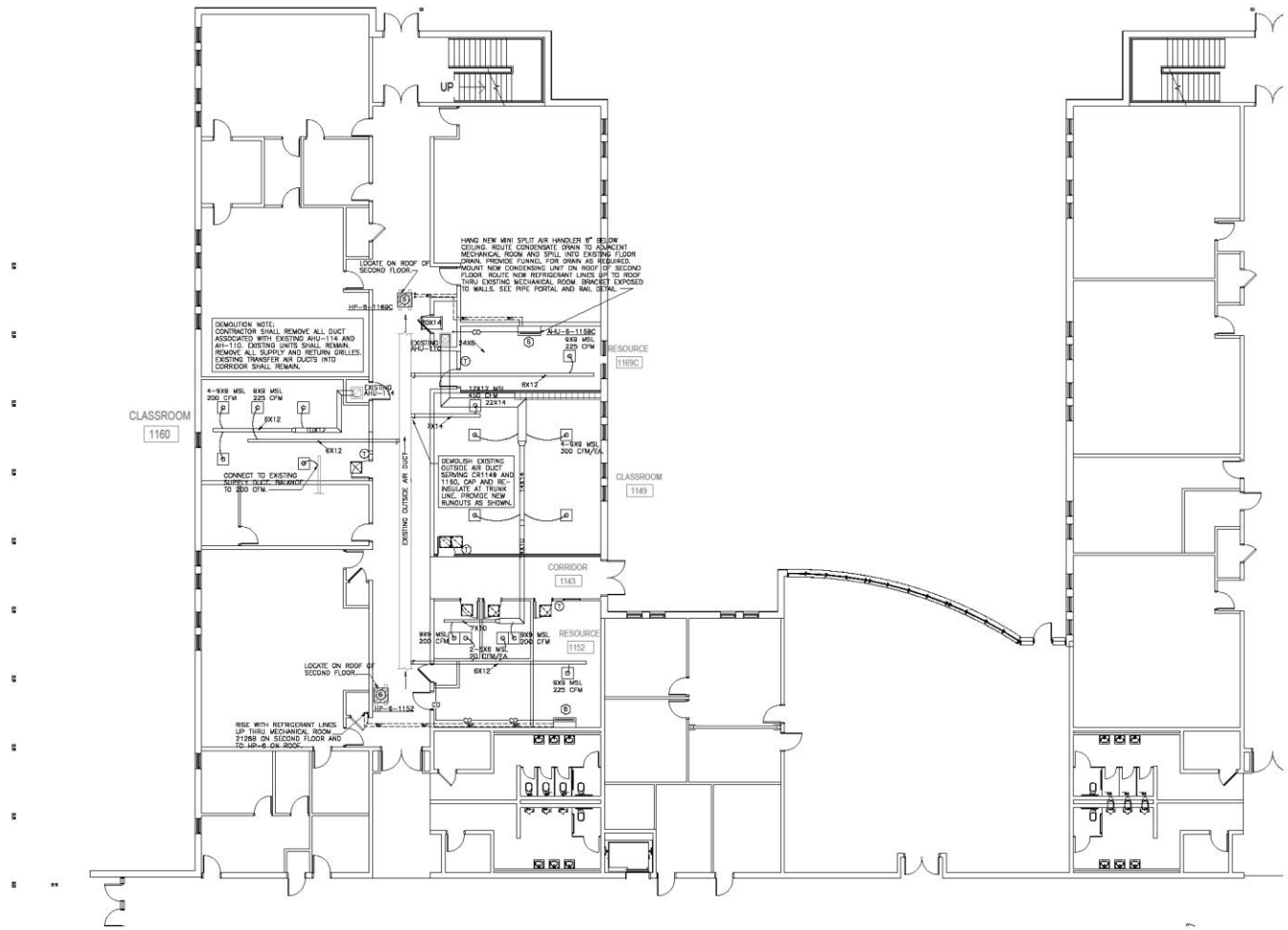
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

PLUMBING SCHEDULE AND DETAILS

P2.02



LEVEL 1 AREA 1 MECHANICAL PLAN - EXISTING BUILDING
SCALE: 1/8" = 1'-0"

OWENS AND ASSOCIATES, INC.
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SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

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PROJECT NUMBER: 16005.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

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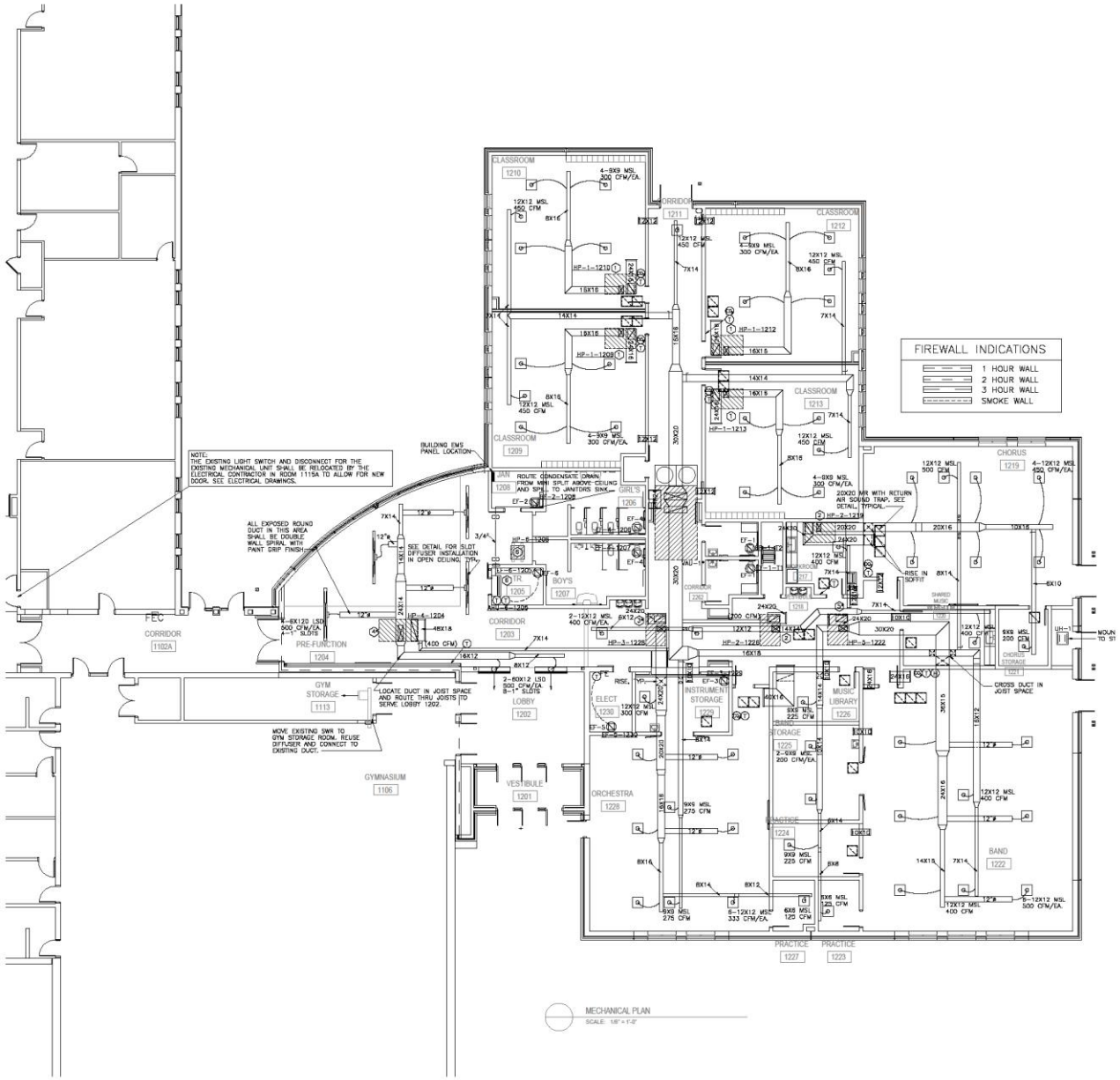
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 1 AREA 1
MECHANICAL PLAN

M1.01



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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

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PROJECT NUMBER: 19005.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

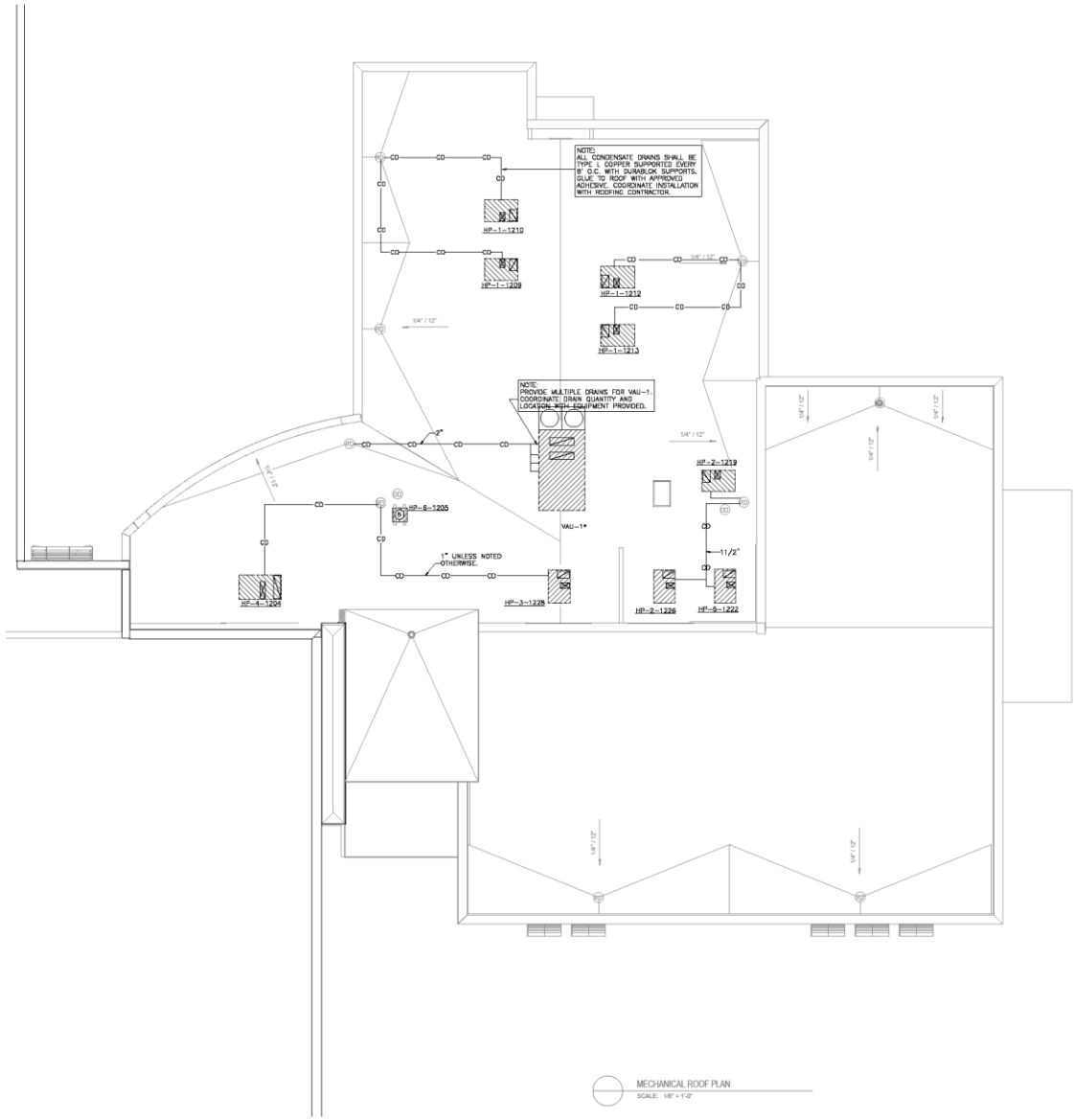
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

OWENS AND ASSOCIATES, INC
CONSULTING ENGINEERS

LEVEL 1 AREA 2
MECHANICAL PLAN

M1.02



MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
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PROJECT NUMBER: 16055.00
DATE: 07.30.2020

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT
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HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

LEVEL 2 AREA 2 MECHANICAL ROOF PLAN

M1.03

GENERAL MECHANICAL NOTES

1. ALL MECHANICAL EQUIPMENT SHALL BE LABELED IN ACCORDANCE WITH THE OWNERS NAMING CONVENTION. COORDINATE WITH OWNER AND CONTROLS CONTRACTOR FOR FINAL EQUIPMENT TAG NAMES.
2. DUCTS TO ROOF MOUNTED EXHAUST CAPS SHALL BE ROUTED AS SIZED ON EXHAUST FAN SCHEDULE. COORDINATE INSTALLATION WITH ALL STRUCTURAL MEMBERS. PROVIDE DUCT EASEMENTS AS REQUIRED.
3. REFER TO ROOF PLANS. COORDINATE EXACT LOCATIONS FOR ROOF-TOP EQUIPMENT WITH STRUCTURAL PLANS AND GENERAL CONTRACTOR. HEIGHT OF ALL MECHANICAL ROOF CURBS SHALL BE COORDINATED WITH THE MINIMUM HEIGHT REQUIREMENTS OF THE ROOFING BOND. SEE ARCHITECTURAL PLANS AND SPECIFICATIONS.
4. CONTRACTOR SHALL FURNISH TO OWNER AT COMPLETION OF PROJECT, A COMPLETE SET OF WRITTEN OPERATING INSTRUCTIONS FOR ALL SYSTEMS.
5. REFER TO REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS TO COORDINATE CEILING AIR DEVICE LOCATIONS.
6. PROVIDE 2-1/2"x2-1/2"x1/4" GALVANIZED STEEL ANGLES, 3/8" THREADED HANGER ROD, AND OTHER SUPPLEMENTAL STEEL AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT FROM THE STRUCTURE. DUCTWORK, UNIT HEATERS, EXHAUST FANS, ETC.
7. ALL RETURN DUCT CONNECTIONS TO AIR DEVICES SHALL BE RECTANGULAR UNLESS OTHERWISE INDICATED ON PLANS. USE OF FLEXIBLE DUCT FOR RETURN IS NOT PERMISSIBLE.
8. REFER TO FLOOR PLANS FOR LOCATIONS OF FIRE-RATED ASSEMBLIES. CONTRACTOR SHALL COMPLETELY FILL AROUND ALL OPENINGS REQUIRED FOR HIS WORK IN ACCORDANCE WITH DETAILS WITH APPROVED FIRE-PROOF MATERIALS.
9. CEILING AIR DEVICE INSTALLATIONS SHALL CONFORM TO THE APPROPRIATE UL ASSEMBLY NUMBER PER THE CODE ANALYSIS DATA FOR THIS PROJECT.
10. CONTRACTOR SHALL SEAL ALL DUCTWORK WITH DUCT SEALANT PER SPECIFICATIONS. DUCT TAPE SHALL NOT BE USED TO SEAL DUCTWORK.
11. THE CONTRACTOR IS INSTRUCTED TO VISIT THE SITE PRIOR TO SUBMITTING A BID TO FAMILIARIZE HIMSELF WITH ALL WORK TO BE ENCOUNTERED. NO EXTRA CHARGE WILL BE APPROVED AFTER START OF CONSTRUCTION FOR FAILURE TO FOLLOW THESE INSTRUCTIONS.
12. CONTRACTOR SHALL PROVIDE THREADED RODS, 1/4", OR OTHER APPROVED MEANS TO LATERALLY SUPPORT ALL SUSPENDED MECHANICAL EQUIPMENT, DUCTS, ETC. IN ACCORDANCE WITH THE SEISMIC DESIGN REQUIREMENTS IN CHAPTER 16 OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

DESIGN CONDITIONS

	COOLING	HEATING
OUTSIDE	95F DB/80F WB	27F DB
INSIDE	78F DB/65F WB	72F DB

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
T	THERMOSTAT WITH LOCK COVER
H	HUMIDISTAT WITH LOCK COVER
CO2	CO2 SENSOR WITH LOCK COVER
EF	EXHAUST FAN
TR GR/EX GR	TRANSFER GRILLE / EXHAUST GRILLE
	AIR TURNING VANE
S	SPLITTER DAMPER
FD/-	FIRE DAMPER / HOUR RATING
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
	INDICATION OF ROOF MOUNTED EQUIPMENT
	MANUAL DAMPER (O.B.M.D.)

HEAT PUMP SCHEDULE

SYMBOL	1	2	3	4	5
COOLING CAP.(ARI)	36000	60000	72000	90000	120000
HEATING CAP.(17F)	19300	31600	34000	45000	62000
SUP. HTR.(KW)	12	17	17	27	36
CFM	1200	2000	2400	3000	4000
EXT. SP. IN. H2O	0.7	0.8	0.8	1.0	1.0
FAN HP**	1/2	1	1	2	3
VOLTS	480				
PHASE	3				
HERTZ	60				
REMARKS	SEE DETAILS				
MANUFACTURER	SEE SPECIFICATIONS				
MODEL	ROOFTOP HEAT PUMP-1				
VENT. AIR (CFM)	SEE PLAN				
VENT. AIR DUCT	VAU SEE PLAN				
VENT. AIR LOUVER	VAU SEE PLAN				

* UNITS SD DESIGNATED SHALL BE PROVIDED WITH DUCT MOUNTED RETURN AIR SMOKE DETECTORS TO COMPLY WITH THE IMC. ADDRESSABLE MODULES TO INTERFACE WITH FIRE ALARM SHALL BE BY ELECTRICAL CONTRACTOR.
\+ BASIS OF EQUIPMENT DESIGN IS DAIKIN. ANY ADDITIONAL REQUIREMENTS ELECTRICAL OR OTHERWISE TO USE OTHER APPROVED EQUIPMENT ARE THE RESPONSIBILITY OF THIS CONTRACTOR. SEE NOTES ON PLANS FOR RTHPS THAT REQUIRE MOTORIZED D.A. HOODS.
** ALL SPLIT SYSTEM UNITS 18000 TO 48000 BTUH SHALL BE PROVIDED WITH VARIABLE SPEED EVAPORATOR FAN MOTORS.
*** PROVIDE 120V GFCI CONVENIENCE OUTLET FOR EACH ROOFTOP UNIT.

AIR DEVICE SCHEDULE

SYMBOL	TYPE	MANUFACTURER & MODEL METAL-AIRE	RELIABLE	PRICE	REMARKS (COORDINATE W/ FINISH SCHED.)
MSL	LOUVMOD.SUP.	5000F (NOTE 2)	DCD-6	AMD	W/ OBD & FULL-SIZE ADAPTOR
MR	MOD.RETURN	RP-FB-TB	GPFF-TB	10A FF	W/ FILTER FRAME
SWR	SIDEWALL REG.	V4004D-AF-1	–	220	W/ OBD
LSD	LINEAR SLOT	SERIES 6000 BP	–	SDS-UP	W/ OBD AND INSULATED BOOT PLENUM
IG	IND. GRILLE	SERIES 4300	–	300	W/ OBD AND DOUBLE DEFLECTION BLADES

NOTES: THESE ARE STANDARD SYMBOLS AND MAY NOT ALWAYS APPEAR ON THE DRAWINGS, HOWEVER, WHERE THE SYMBOL DOES APPEAR, THE ITEM SHALL BE PROVIDED. ALL DEVICES TO BE ALUMINUM UNLESS LOCATED IN A FIRE-RATED ASSEMBLY WHERE DEVICES SHALL BE STEEL. FLEX RUNOUTS SHALL BE FULL-SIZE OF DIFFUSER NECK UNLESS OTHERWISE NOTED. ALL LAY-IN GRILLES, DIFFUSERS, ETC. SHALL BE PROVIDED WITH FOUR – 12 GAUGE SUPPORT WIRES TIED INDEPENDENTLY TO THE STRUCTURE AND CEILING CLIPS PER ASTM E-580-81 REQUIREMENTS.

NOTE 1-CUSTOM COLOR LOUVERS SHALL HAVE KYNAR 500 (70% KYNAR) FINISH. LOCATE AS DIRECTED BY ARCHITECT.
NOTE 2-METAL-AIRE SERIES 5000 DIFFUSER SHALL BE PROVIDED WITH WELDED BOTTOM CONE. RIVETED CONES ARE NOT ACCEPTABLE.
NOTE 3-ALL DIFFUSERS SHALL BE PROVIDED WITH A 4-WAY BLOW PATTERN UNLESS OTHERWISE INDICATED.

ACOUSTIC FLEXIBLE SUPPLY RUNOUT SCHEDULE

INSIDE DIAMETER	AIR DEVICE CFM RANGE	REMARKS
6" DIA.	UP TO 100 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
8" DIA.	UP TO 200 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
10" DIA.	UP TO 300 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
12" DIA.	UP TO 400 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
15" DIA.	UP TO 800 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH

NOTE: FLEXIBLE DUCT SHALL BE ACOUSTIC TYPE AS MANUFACTURED BY FLEXMASTER TYPE 1M, CLEVAFLEX, THERMOFLEX MKE-R6.0, OR PRIOR APPROVED EQUAL. SEE SPECIFICATIONS.

UNIT HEATER SCHEDULE

SYMBOL	LOCATION	TYPE	CAPACITY,BTUH	KW OR INPUT	VOLTS	PH	REMARKS
UH-1	CEILING	CABINET	13640	4.0 KW	277	1	MARKEL 6300 W/ INTEGRAL T-STSTAT

EXHAUST FAN SCHEDULE ⚠

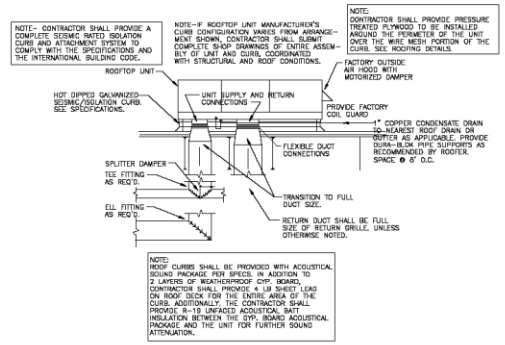
EF NO	AREA SERVED	LOCATION	SONES	TYPE FAN	TYPE DRIVE	CFM	FAN DIA.	SP IN.	HP	VOLTS	PH	REMARKS# DUCT	DIS.CAP*
1	AS NOTED	CEILING	2.1	CENT.	DIRECT	150	–	0.375	1/30	120	1	6X8	GRSR-8
2			5.3			200			1/15			6X8	GRSR-8
3			5.3			300			1/15			8X8	GRSR-10
4			6.0			400			1/8			10X8	GRSR-12
5			6.0			500			1/8			14X10	GRSR-14
6			6.0			800			1/4			14X10	GRSR-16

* PROVIDE WITH FACTORY BOX KINAR FINISH, COLOR AS SELECTED BY ARCHITECT.
# MOUNT BOTTOM OF DISCHARGE LOUVER AT HEIGHT AS DIRECTED BY ARCHITECT. PROVIDE ALL WALL AND ROOF DISCHARGE CAPS WITH FACTORY FINISH, COLOR AS SELECTED BY ARCHITECT. IF WALL LOUVER IS NOT INDICATED, DISCHARGE SHALL BE THROUGH ROOF, SEE SPECS. EACH ROOF DISCHARGE SHALL BE GREENHECK MODEL GRSR WITH INSULATED ALUM. ROOF CURB, CUSTOM COLOR. ROUTE EXHAUST DUCT WITH SIZE AS SCHEDULED AND CONNECT TO BOX PLENUM FULL SIZE OF ROOF CURB FOR RELIEF VENT. ASSEMBLY SHALL BE AIRTIGHT. LOCATE DISCHARGE CAPS 10' MINIMUM FROM AIR INTAKES, TYPICAL.

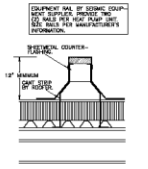
MINI SPLIT SCHEDULE

SYMBOL	6
COOLING CAP.(ARI)	18000
HEATING CAP.(17F)	17200
SUP. HTR.(KW)	N/A
CFM	600
EXT. SP. IN. H2O	FREE
FAN HP	FRACT.
VOLTS	208
PHASE	1
HERTZ	60
REMARKS	SEE DETAILS
MANUFACTURER	SEE NOTES
MODEL	SPLIT SYSTEM
VENT. AIR (CFM)	N/A

NOTE 1: MINI SPLIT SHALL BE MITSUBISH MODEL MSZ-GE/MUZ-GE OR EQUAL BY DAIKIN. INSTALL AS PER MANUFACTURER'S LITERATURE.
NOTE 2: MINI SPLIT SHALL BE PROVIDED WITH THREE POLE DISCONNECT AND CONDENSATE PUMP. HEAT PUMPS SHALL BE CONTROLLED BY HARD WIRED THERMOSTAT.



ROOFTOP UNIT INSTALLATION DETAIL
NO SCALE



EQUIPMENT RAIL DETAIL
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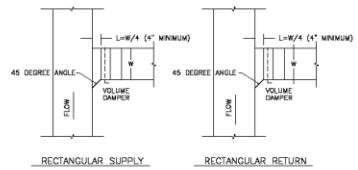

DUCT BRANCH FITTING DETAIL
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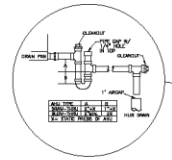

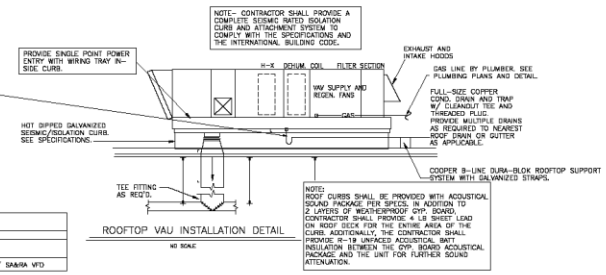

ROOFTOP VAU INSTALLATION DETAIL
NO SCALE

VENTILATION AIR UNIT SCHEDULE

SYM.	VENTILATION AIR CFM	ESP	FAN HP	EXHAUST AIR CFM	ESP	FAN HP	T.E. WHEEL SUMMER E.A.T. (db/wb)	CAPACITY MBH	L.A.T. (db/wb)	T.E. WHEEL WINTER E.A.T. (db/wb)	CAPACITY MBH	L.A.T. (db/wb)	WHEEL EFF. EFF. %	COOLING COIL E.A.T. (db/wb)	CAPACITY MBH	L.A.T. (db/wb)	H.G. REHEAT CAPACITY MBH	BUILDING SUPPLY L.A.T. (db/wb)	NATURAL GAS FIRED HEAT E.A.T. (db)	L.A.T. (db)	MBH INPUT	ELECTRICAL VOLTS	PHASE	M.O.P. (AMPS)	MANUFACTURER
VAU-1	4700	1.1"	5.0	3995	0.5"	5.0	95/78	169	82/69	20	158	51.2	83	82.6/69.3	317	48.5/48.5	148	70/56	51.2	88.4	300	480	3	90	GREENHECK RVE W/ SAMRA VFD

NOTE 1-BASIS OF DESIGN IS GREENHECK MODEL RVE OR EQUAL BY TRANE(MCC) OR MUNTERS HCU-V. ANY ADDITIONAL REQUIREMENTS ELECTRICALLY, STRUCTURALLY, DIMENSIONALLY OR OTHERWISE TO USE OTHER PRIOR APPROVED MANUFATURERS ARE THE RESPONSIBILITY OF THIS CONTRACTOR.
NOTE 2-UNIT SHALL BE PROVIDED WITH SINGLE POINT POWER, VARIABLE SPEED DRIVE BYPASS AND DRIVER COORDINATED WITH ALC CONTROL SYSTEM. PROVIDE BACNET INTERFACE. PROVIDE UNITS WITH AIRFLOW MONITORING STATIONS.
NOTE 3-UNIT SHALL BE PROVIDED WITH 120V GFI CONVENIENCE OUTLET WITH IN-USE COVER PER NEC.
NOTE 4-UNIT SHALL BE CAPABLE OF PROVIDING SUPPLY AIR CONDITIONS (DRY BULB AND WET BULB) AT DESIGN CONDITIONS DURING PART LOAD OPERATION WITHOUT THE USE OF AUXILIARY HEAT IN THE FORM OF GAS OR ELECTRIC REHEAT. PARTIAL LOAD SHALL BE PROGRESSED PLANNING ON 10% INCREMENTS FROM 100% TO 20% AS THE ENTERING OUTSIDE AIR CONDITION TO DEMONSTRATE PART LOAD PERFORMANCE. GAS AND OR ELECTRIC STRIP REHEAT WILL NOT BE PERMITTED AS A FORM OF PRIORITY TO ACHIEVE ACCEPTABLE SUPPLY CONDITIONS DURING PART LOAD SITUATIONS.
NOTE 5-UNIT SHALL BE MONITORED BY THE BUILDING AUTOMATION SYSTEM (BAS) SUCH THAT DURING DESIGN COOLING SEASON, IF THE UNIT DOES NOT MEET DESIGN MAXIMUM DEWPOINT AND DRY BULB CONDITIONS (73/58 MAX) THE UNIT WILL SHUT DOWN AND SEND A UNIT FAILURE ALARM TO THE BAS. THE VENTILATION AIR UNIT SHALL NOT RUN IF DESIGN CONDITIONS ARE EXCEEDED.

MECHANICAL SCHEDULES AND DETAILS
NO SCALE

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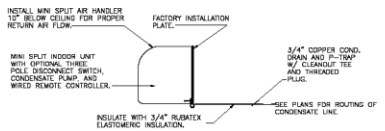
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

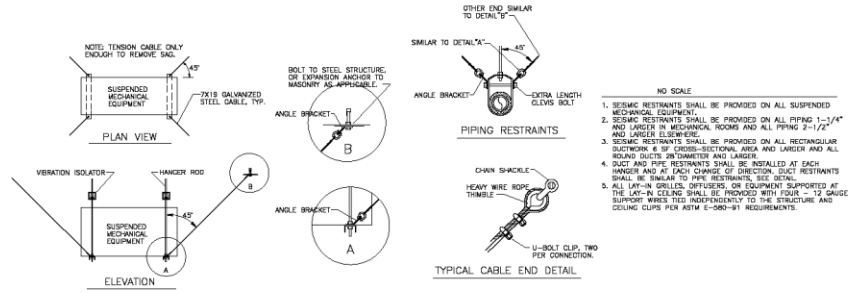
MECHANICAL SCHEDULES AND DETAILS

M2.01



MINI SPLIT INDOOR UNIT DETAIL

NO SCALE

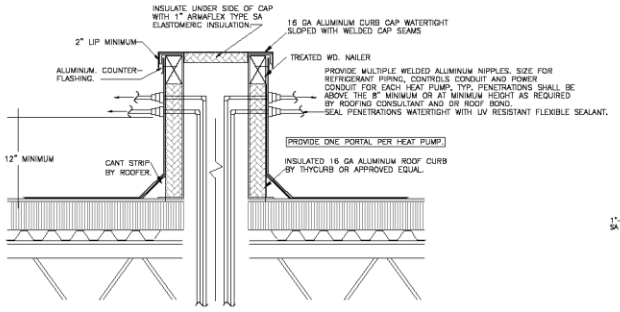


NO SCALE

1. SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL SUSPENDED MECHANICAL EQUIPMENT.
2. SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL PIPING 1-1/4" AND LARGER IN MECHANICAL ROOMS AND ALL PIPING 2-1/2" AND LARGER ELSEWHERE.
3. SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL RECTANGULAR DUCTWORK 6 SF CROSS-SECTIONAL AREA AND LARGER AND ALL ROUND DUCTS 28"DIAMETER AND LARGER.
4. DUCT AND PIPE RESTRAINTS SHALL BE INSTALLED AT EACH HANGER AND AT EACH CHANGE OF DIRECTION. DUCT RESTRAINTS SHALL BE SIMILAR TO PIPE RESTRAINTS, SEE DETAIL.
5. ALL LAY-IN GRILLES, DIFFUSERS, OR EQUIPMENT SUPPORTED AT THE LAY-IN CEILING SHALL BE PROVIDED WITH FOUR - 12 GAUGE SUPPORT WIRES TIED INDEPENDENTLY TO THE STRUCTURE AND CEILING CLIPS PER ASTM E-580-91 REQUIREMENTS.

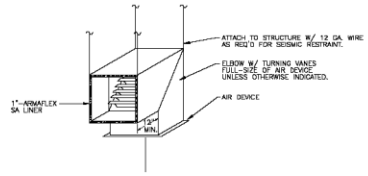
MECHANICAL SYSTEM SEISMIC RESTRAINTS

NO SCALE



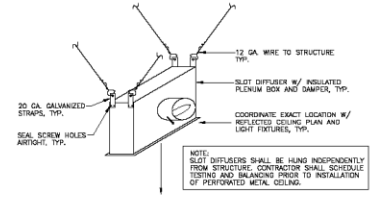
PIPE PORTAL DETAIL

NO SCALE



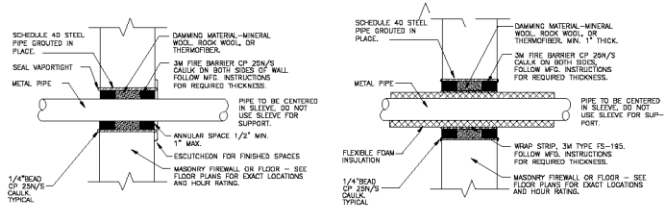
RETURN AIR SOUND TRAP DETAIL

NO SCALE



SLOT DIFFUSER SUPPORT DETAIL

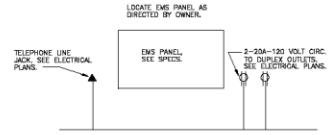
NO SCALE



NOTE: PROVIDE UL LABELS AT EACH FIREWALL PENETRATION PER OSF REQUIREMENTS.

FIRE RATED PIPE PENETRATION DETAIL

NO SCALE



EMS PANEL DETAIL

NO SCALE

MECHANICAL DETAILS

NO SCALE

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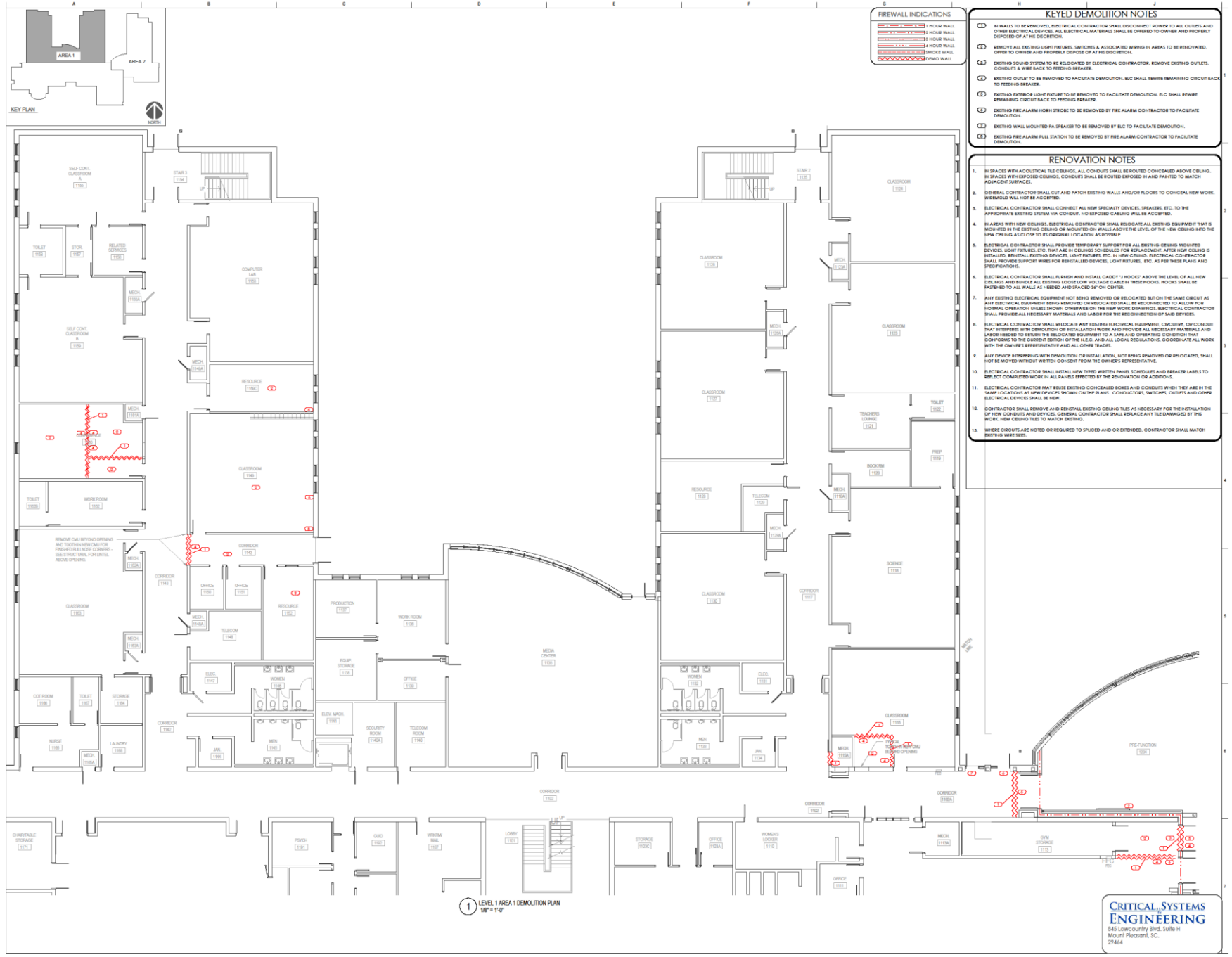
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

MECHANICAL DETAILS

M2.02



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07/30/20
ARCHITECT/ENGINEER SEAL

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Level 1 Area 1 Demolition Plan

E1.00

GENERAL ELECTRICAL SYMBOL SCHEDULE

- BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, EXPOSED. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
- JB — JUNCTION BOX WITH COVER.
- GFI — GROUND FAULT INTERRUPTER.
- WG — WIRE GUARD
- WP — WEATHER PROOF.
- EC — EMPTY CONDUIT. PROVIDE 16 GAUGE STEEL OR NYLON PULLWIRE.
- ELC — ELECTRICAL CONTRACTOR
- CM — DEVICE MOUNTED FACING DOWNWARD IN CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
- AC — DEVICE MOUNTED ABOVE CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
- F — FLOOR MOUNTED OUTLET OR CONDUIT STUB UP. SEE DETAILS ON KITCHEN PLAN
- EMS — ENERGY MANAGEMENT SYSTEM CONNECTION. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
- AFF — ABOVE FINISHED FLOOR
- AFG — ABOVE FINISHED GRADE
- OC — MOUNT OVER COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DRAWINGS.
- SPD — SURGE PROTECTED DEVICE. FORMALLY KNOWN AS "TVSS"
- F & I — FURNISH AND INSTALL
- MC — METAL CLAD CABLE
- RMC — RIGID METAL CONDUIT
- FMC — FLEXIBLE METAL CONDUIT
- LFMC — LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
- LFNC — LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
- PVC — RIGID POLYVINYL CHLORIDE CONDUIT
- EMT — ELECTRICAL METALLIC TUBING

ELECTRICAL LIGHTING SYMBOL SCHEDULE

- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR WHICH IS UNSWITCHED BY LOCAL SWITCHES, OCCUPANCY SENSORS, OR LIGHTING CONTROL PANELS.
- LIGHTING BRANCH CIRCUIT WHICH INCLUDES AN ADDITIONAL HOT CONDUCTOR WHICH IS UNSWITCHED BY ANY LOCAL SWITCHES, OCCUPANCY SENSORS, OR LIGHTING CONTROL PANELS.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR SWITCHED BY LIGHTING CONTROL SYSTEM.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR SWITCHED BY OCCUPANCY SENSOR.
- 2' X 4' LIGHT FIXTURE.
- 2' X 2' LIGHT FIXTURE.
- 1' X 4' LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE.
- PENDANT LIGHT FIXTURE.
- RECESSED CAN LIGHT FIXTURE.
- S — SINGLE POLE SWITCH WITH PLATE. MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. 20 AMP, 120/277 VOLT.
- S_3 — THREE WAY SWITCH WITH PLATE. MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. 20 AMP, 120/277 VOLT.
- S_4 — FOUR WAY SWITCH WITH PLATE. MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. 20 AMP, 120/277 VOLT.
- S_{OS} — SINGLE POLE SWITCH WITH MULTI TECH OCCUPANCY SENSOR WITH METAL PLATE. MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS.
- OCCUPANCY SENSOR POWER PACK. SEE OCCUPANCY SENSOR POWER PACK DETAIL AND SPECIFICATIONS.
- CEILING MOUNTED, DUAL TECHNOLOGY, OCCUPANCY SENSOR. SEE SPECIFICATIONS.
- EMERGENCY LIGHTING WALL PACK SEE LIGHT FIXTURE SCHEDULE.
- EMERGENCY LIGHTING / EXIT LIGHT COMBO WALL PACK. SEE LIGHT FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN WITH ARROWS AND FACES AS INDICATED SEE LIGHT FIXTURE SCHEDULE
- SURFACE WALL MOUNTED EXIT SIGN WITH ARROWS AND FACES AS INDICATED SEE LIGHT FIXTURE SCHEDULE
- OLC — OUTDOOR LIGHTING CONTACTOR
- LCTRL — LIGHTING CONTROL SYSTEM
- CEILING MOUNTED EXHAUST FAN. FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR.
- CEILING MOUNTED EXHAUST FAN AND LIGHT COMBINATION UNIT. FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR.
- S_{EF} — SINGLE POLE SWITCH WITH PLATE FOR EXHAUST FAN. LABEL "EXHAUST FAN" MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT. FURNISH AND INSTALL PHENOLIC "EXHAUST FAN" LABEL.
- T_{EF} — THERMOSTAT OUTLET LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING EXHAUST FAN. MOUNT BOX 48"AFF TO TOP OF BOX.

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NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

07/30/20

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 16095.00
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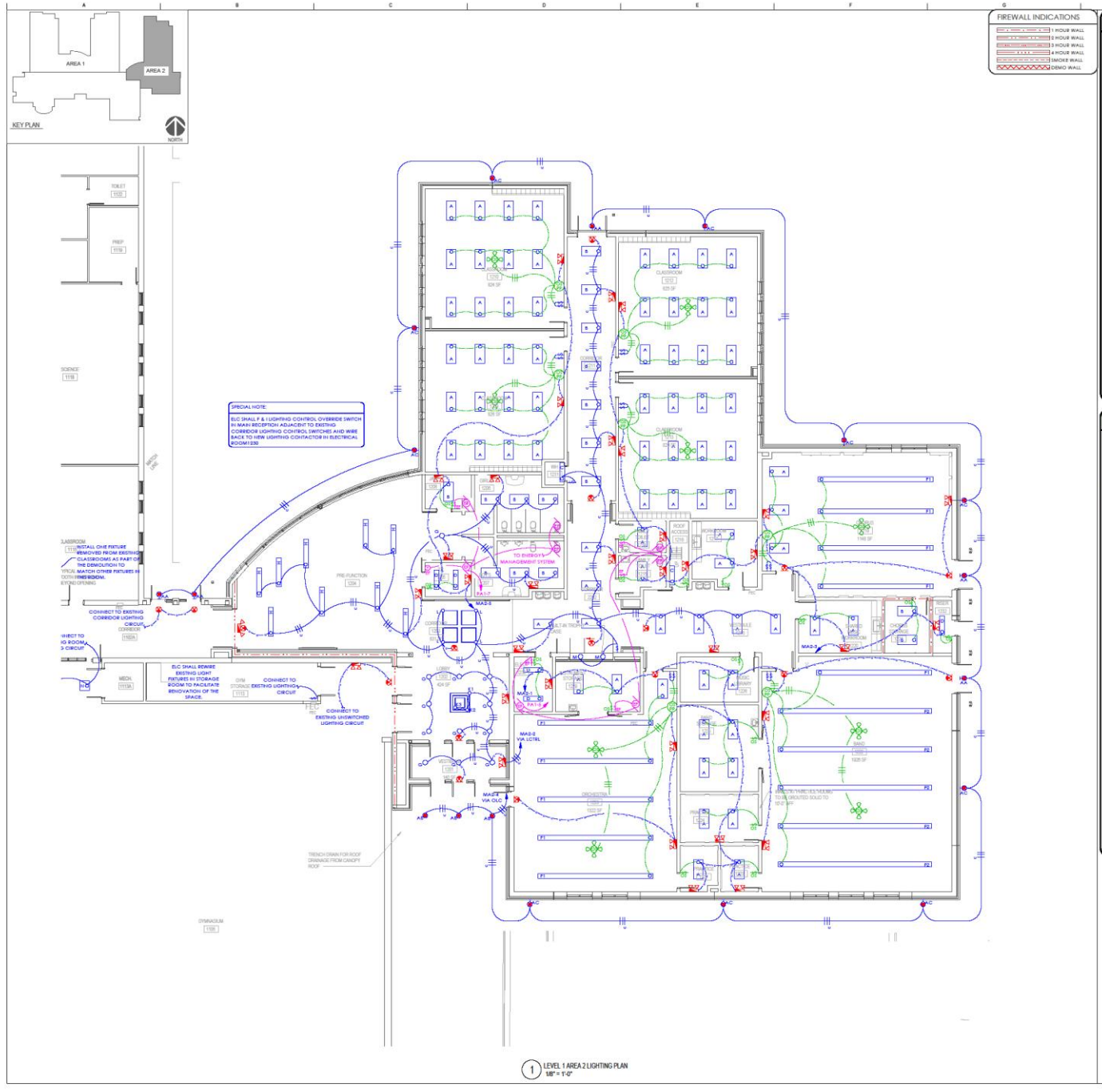
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Level 1 Area 1 Lighting Plan

E1.01



GENERAL ELECTRICAL SYMBOL SCHEDULE

- BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, EXPOSED. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
- JUNCTION BOX WITH COVER.
- GFI — GROUND FAULT INTERRUPTER.
- WG — WIRE GUARD
- WP — WEATHER PROOF.
- EC — EMPTY CONDUIT. PROVIDE 16 GAUGE STEEL OR NYLON PULLWIRE.
- ELC — ELECTRICAL CONTRACTOR
- CM — DEVICE MOUNTED FACING DOWNWARD IN CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
- AC — DEVICE MOUNTED ABOVE CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
- F — FLOOR MOUNTED OUTLET OR CONDUIT STUB UP. SEE DETAILS ON KITCHEN PLAN
- EMS — ENERGY MANAGEMENT SYSTEM CONNECTION. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
- AFF — ABOVE FINISHED FLOOR
- AFG — ABOVE FINISHED GRADE
- OC — MOUNT OVER COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DRAWINGS.
- SPD — SURGE PROTECTED DEVICE. FORMALLY KNOWN AS "TVSS"
- F & I — FURNISH AND INSTALL
- MC — METAL CLAD CABLE
- RMC — RIGID METAL CONDUIT
- FMC — FLEXIBLE METAL CONDUIT
- LFMC — LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
- LFNC — LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
- PVC — RIGID POLYVINYL CHLORIDE CONDUIT
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ELECTRICAL LIGHTING SYMBOL SCHEDULE

- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR WHICH IS UNSWITCHED BY LOCAL SWITCHES, OCCUPANCY SENSORS, OR LIGHTING CONTROL PANELS.
- LIGHTING BRANCH CIRCUIT WHICH INCLUDES AN ADDITIONAL HOT CONDUCTOR WHICH IS UNSWITCHED BY ANY LOCAL SWITCHES, OCCUPANCY SENSORS, OR LIGHTING CONTROL PANELS.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR SWITCHED BY LIGHTING CONTROL SYSTEM.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR SWITCHED BY OCCUPANCY SENSOR.
- 2' X 4' LIGHT FIXTURE.
- 2' X 2' LIGHT FIXTURE.
- 1' X 4' LIGHT FIXTURE.
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- PENDANT LIGHT FIXTURE.
- RECESSED CAN LIGHT FIXTURE.
- SINGLE POLE SWITCH WITH PLATE. MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. 20 AMP, 120/277 VOLT.
- THREE WAY SWITCH WITH PLATE. MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. 20 AMP, 120/277 VOLT.
- FOUR WAY SWITCH WITH PLATE. MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. 20 AMP, 120/277 VOLT.
- SINGLE POLE SWITCH WITH MULTI TECH OCCUPANCY SENSOR WITH METAL PLATE. MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS.
- OCCUPANCY SENSOR POWER PACK. SEE OCCUPANCY SENSOR POWER PACK DETAIL AND SPECIFICATIONS.
- CEILING MOUNTED, DUAL TECHNOLOGY, OCCUPANCY SENSOR. SEE SPECIFICATIONS.
- EMERGENCY LIGHTING WALL PACK SEE LIGHT FIXTURE SCHEDULE.
- EMERGENCY LIGHTING / EXIT LIGHT COMBO WALL PACK. SEE LIGHT FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN WITH ARROWS AND FACES AS INDICATED SEE LIGHT FIXTURE SCHEDULE
- SURFACE WALL MOUNTED EXIT SIGN WITH ARROWS AND FACES AS INDICATED SEE LIGHT FIXTURE SCHEDULE
- OLC — OUTDOOR LIGHTING CONTACTOR
- LCTRL — LIGHTING CONTROL SYSTEM
- CEILING MOUNTED EXHAUST FAN. FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR.
- CEILING MOUNTED EXHAUST FAN AND LIGHT COMBINATION UNIT. FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR.
- SINGLE POLE SWITCH WITH PLATE FOR EXHAUST FAN. LABEL "EXHAUST FAN" MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT. FURNISH AND INSTALL PHENOLIC "EXHAUST FAN" LABEL.
- THERMOSTAT OUTLET LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING EXHAUST FAN. MOUNT BOX 48"AFF TO TOP OF BOX.

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CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Level 1 Area 2
Lighting Plan

E1.02

GENERAL ELECTRICAL SYMBOL SCHEDULE

- BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, EXPOSED. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
- JUNCTION BOX WITH COVER.
- GFI — GROUND FAULT INTERRUPTER.
- WG — WIRE GUARD
- WP — WEATHER PROOF.
- EC — EMPTY CONDUIT. PROVIDE 16 GAUGE STEEL OR NYLON PULLWIRE.
- ELC — ELECTRICAL CONTRACTOR
- CM — DEVICE MOUNTED FACING DOWNWARD IN CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
- AC — DEVICE MOUNTED ABOVE CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
- F — FLOOR MOUNTED OUTLET OR CONDUIT STUB UP. SEE DETAILS ON KITCHEN PLAN
- EMS — ENERGY MANAGEMENT SYSTEM CONNECTION. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
- AFF — ABOVE FINISHED FLOOR
- AFG — ABOVE FINISHED GRADE
- OC — MOUNT OVER COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DRAWINGS.
- SPD — SURGE PROTECTED DEVICE. FORMALLY KNOWN AS "TVSS"
- F & I — FURNISH AND INSTALL
- MC — METAL CLAD CABLE
- RMC — RIGID METAL CONDUIT
- FMC — FLEXIBLE METAL CONDUIT
- LFMC — LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
- LFNC — LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
- PVC — RIGID POLYVINYL CHLORIDE CONDUIT
- EMT — ELECTRICAL METALLIC TUBING

ELECTRICAL POWER & TELECOM SYMBOL SCHEDULE

- DUPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- GFCI — DUPLEX GFI TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- WP — WEATHER RESISTANT DUPLEX GFI CONVENIENCE OUTLET WITH DAMP LOCATION LISTED COVER P&S #4811 OR APPROVED EQUAL. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- WU — WEATHER RESISTANT DUPLEX GFI CONVENIENCE OUTLET WITH DIE CAST ALUMINUM, WET LOCATION LISTED WHILE IN USE COVER. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- USB — DUPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE AND TWO 2.1 AMP USB CHARGING PORTS. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- QUADRAPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- EWC — ELECTRIC WATER COOLER. LOCATE 15RV, 20A OUTLET CONCEALED BEHIND WATER COOLER ENCLOSURE. VERIFY COOLER MOUNTING HEIGHT. CIRCUIT SHALL BE FED FROM GFCI PROTECTED BREAKER
- SPECIAL OUTLET WITH PLATE. MOUNT AS PER SPECIAL OUTLET SCHEDULE.
- ELECTRICAL PANELBOARD. SEE ELECTRICAL RISER DIAGRAM".
- DRY TYPE TRANSFORMER. SEE ELECTRICAL RISER DIAGRAM AND SPECIFICATIONS.
- SURFACE RACEWAY.
- HAND DRYER FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. EXCEL THIN AIR #TA-XX. COLOR AND MOUNTING HEIGHT BY ARCHITECT.
- MOUNTED P.A. SPEAKER. SEE SPECIFICATIONS AND TELECOMMUNICATION OR P.A. SYSTEM RISER DIAGRAM.
- WALL MOUNTED P.A. SPEAKER. SEE SPECIFICATIONS AND TELECOMMUNICATION OR P.A. SYSTEM RISER DIAGRAM.
- COMMUNICATIONS OUTLET. MOUNT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. SEE SPECS AND "TELECOM RISER DIAGRAM".
- COMMUNICATIONS OUTLET BOX WITH BLANK METAL PLATE FOR INTERACTIVE DISPLAY. SEE I.T. ELEVATIONS, SPECS AND "TELECOM RISER DIAGRAM".
- SOUND AUGMENTATION SPEAKER JUNCTION BOX ABOVE CEILING. PROVIDE 4"X 4" JUNCTION BOX WITH COVER PLATE. SEE "I.T. ELEVATION DETAILS".
- COMMUNICATIONS OUTLET BOXES WITH BLANK METAL PLATE FOR WIRELESS ACCESS POINT. MOUNT FACE DOWN IN CEILING TILE. SEE IT DETAILS.
- COMMUNICATIONS OUTLET BOXES WITH BLANK METAL PLATE FOR WALL MOUNTED WIRELESS ACCESS POINT.
- TV — TELEVISION WALL BOXES WITH DUPLEX CONVENIENCE OUTLET, TELECOM OUTLET, SCREEN OUTLET AND CONDUITS. SEE INTERACTIVE BOARD I.T. ELEVATION DETAILS
- RWU — ROOF TOP DUPLEX SERVICE OUTLET (GFI TYPE) WITH WET LOCATION LISTED WHILE IN USE COVER INTERMATIC #WP1010MC OR APPROVED EQUAL. 20 AMP, 120 VOLT.
- THERMOSTAT OUTLET LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 48"AFF TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS. (3H SPLIT SYSTEM UNITS, PROVIDE A 3/4"EC. FROM THE HEAT PUMP TO THE AHU, IN ADDITION TO THE THERMOSTAT CONDUIT.
- HUMIDISTAT OUTLET LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 48"AFF TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS.
- CO2 DETECTOR LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 54"AFF TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS.
- MOTOR LOCATION.
- DISCONNECT SWITCH, (FUSED SAFETY SWITCH), BY ELECTRICAL CONTRACTOR. SEE DISCONNECT SCHEDULE.
- AHU — AIR HANDLING UNIT, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- HP — HEAT PUMP, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- RTU — ROOF TOP UNIT, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- UH — UNIT HEATER, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- EWH — STORAGE TYPE ELECTRIC WATER HEATER, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- CP — CONTROL SWITCH FOR CIRCULATING WATER PUMP. MOUNT 48" TO TOP OF BOX. A.F.F. LABEL CIRC. PUMP.
- CIRCULATING WATER PUMP. FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELC.
- MP — 3 POLE MOTOR RATED SWITCH WITH PLATE FOR MINI SPLIT INDOOR UNIT. EQUAL TO MITSUBISHI #TA0116GS. MOUNT RECESSED FLUSH IN WALL ADJACENT TO INDOOR AIR HANDLING UNIT.

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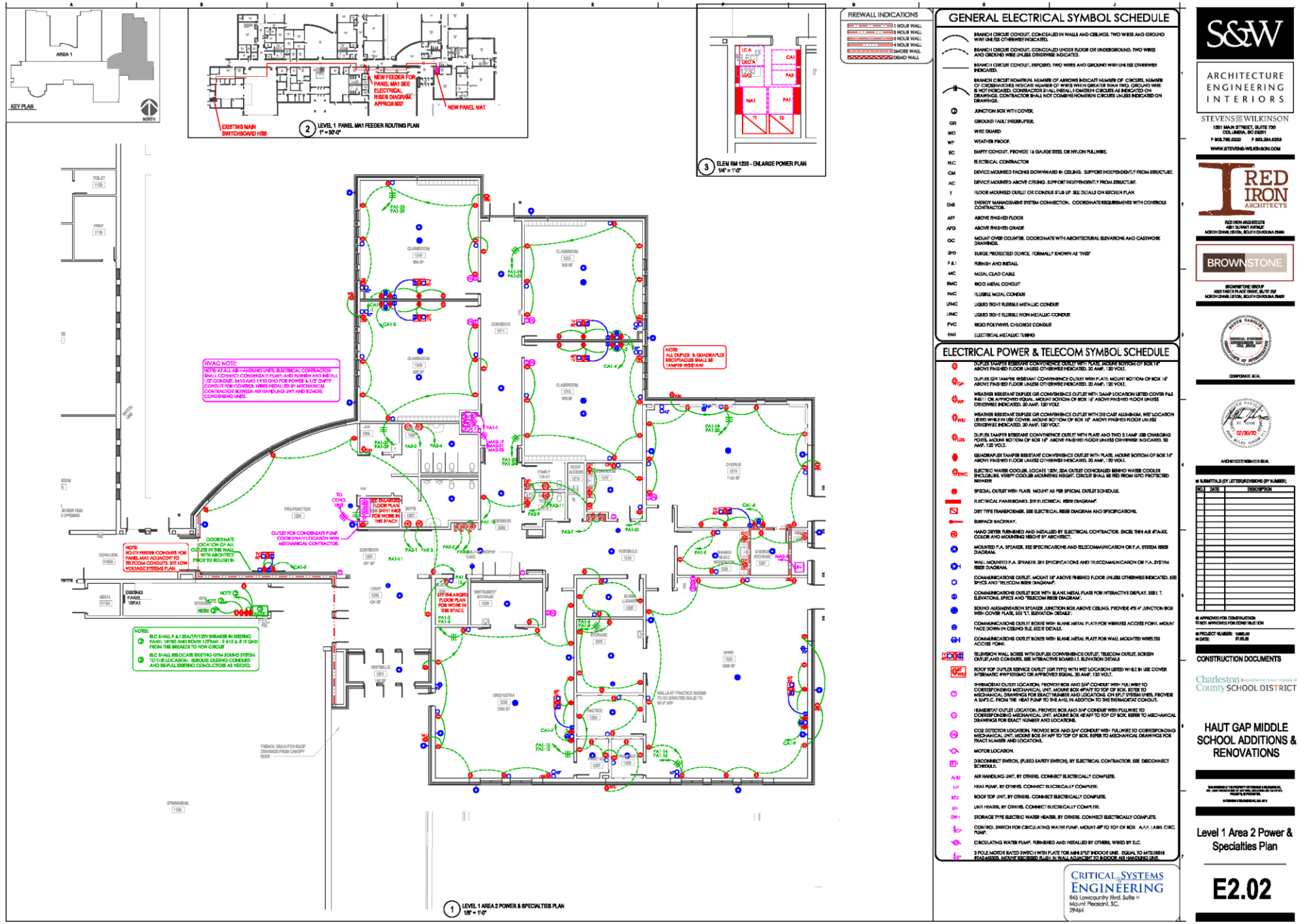
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Level 1 Area 1 Power & Specialties Plan

E2.01



GENERAL ELECTRICAL SYMBOL SCHEDULE

- BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, EXPOSED. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. COMBINATION SYSTEMS INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
- JB — JUNCTION BOX WITH COVER.
- GFI — GROUND FAULT INTERRUPTER.
- WG — WIRE GUARD
- WP — WEATHER PROOF.
- EC — EMPTY CONDUIT. PROVIDE 14 GAUGE STEEL OR NYLON PULLWIRE.
- E.C. — ELECTRICAL CONTRACTOR
- CM — DEVICE MOUNTED FACING DOWNWARD IN CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
- AC — DEVICE MOUNTED ABOVE CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
- F — FLOOR MOUNTED OUTLET OR CONDUIT STUB UP. SEE DETAILS ON KITCHEN PLAN
- EMS — ENERGY MANAGEMENT SYSTEM CONNECTION. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
- AFF — ABOVE FINISHED FLOOR
- AFG — ABOVE FINISHED GRADE
- OC — MOUNT OVER COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DRAWINGS.
- SPD — SURGE PROTECTED DEVICE. FORMALLY KNOWN AS "TVSS"
- F & I — FURNISH AND INSTALL
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- EMT — ELECTRICAL METALLIC TUBING

ELECTRICAL POWER & TELECOM SYMBOL SCHEDULE

- DUPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- GFI — DUPLEX GFI TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- WP — WEATHER RESISTANT DUPLEX GFI CONVENIENCE OUTLET WITH DAMP LOCATION LISTED COVER P&S #411 OR APPROVED EQUAL. MOUNT BOTTOM OF BOX 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- WU — WEATHER RESISTANT DUPLEX GFI CONVENIENCE OUTLET WITH DIE CAST ALUMINUM, WET LOCATION LISTED WHILE IN USE COVER. MOUNT BOTTOM OF BOX 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- USB — DUPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE AND TWO 2.1AMP USB CHARGING PORTS. MOUNT BOTTOM OF BOX 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- QUADRAPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
- EWC — ELECTRIC WATER COOLER. LOCATE 120V, 20A OUTLET CONCEALED BEHIND WATER COOLER ENCLOSURE. VERIFY COOLER MOUNTING HEIGHT. CIRCUIT SHALL BE RED FROM GFCI PROTECTED BREAKER
- SPECIAL OUTLET WITH PLATE. MOUNT AS PER SPECIAL OUTLET SCHEDULE.
- ELECTRICAL PANELBOARD. SEE ELECTRICAL RISER DIAGRAM"
- DRY TYPE TRANSFORMER. SEE ELECTRICAL RISER DIAGRAM AND SPECIFICATIONS.
- SURFACE RACEWAY.
- HAND DRYER FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. EXCEL THIN AIR #TA-XX. COLOR AND MOUNTING HEIGHT BY ARCHITECT.
- MOUNTED P.A. SPEAKER. SEE SPECIFICATIONS AND TELECOMMUNICATION OR P.A. SYSTEM RISER DIAGRAM.
- WALL MOUNTED P.A. SPEAKER. SEE SPECIFICATIONS AND TELECOMMUNICATION OR P.A. SYSTEM RISER DIAGRAM.
- COMMUNICATIONS OUTLET. MOUNT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. SEE SPECS AND "TELECOM RISER DIAGRAM".
- COMMUNICATIONS OUTLET BOX WITH BLANK METAL PLATE FOR INTERACTIVE DISPLAY. SEE I. T. ELEVATIONS. SPECS AND "TELECOM RISER DIAGRAM".
- SOUND AUGMENTATION SPEAKER JUNCTION BOX ABOVE CEILING. PROVIDE 4"S.4" JUNCTION BOX WITH COVER PLATE. SEE "I.T. ELEVATION DETAILS".
- COMMUNICATIONS OUTLET BOXES WITH BLANK METAL PLATE FOR WIRELESS ACCESS POINT. MOUNT FACE DOWN IN CEILING TILE. SEE IT DETAILS.
- COMMUNICATIONS OUTLET BOXES WITH BLANK METAL PLATE FOR WALL MOUNTED WIRELESS ACCESS POINT.
- TELEVISION WALL BOXES WITH DUPLEX CONVENIENCE OUTLET, TELECOM OUTLET, SCREEN OUTLET AND CONDUIT. SEE INTERACTIVE BOARD I.T. ELEVATION DETAILS
- RTU — ROOF TOP DUPLEX SERVICE OUTLET (GR TYPE) WITH WET LOCATION LISTED WHILE IN USE COVER INTERMATIC #WP1010MC OR APPROVED EQUAL. 20 AMP, 120 VOLT.
- THERMOSTAT OUTLET LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 48"A/F TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS. ON SPLIT SYSTEMS UNITS, PROVIDE A 5#E.C. FROM THE HEAT PUMP TO THE AHU IN ADDITION TO THE THERMOSTAT CONDUIT.
- H — HUMIDISTAT OUTLET LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 48"A/F TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS.
- CO2 — CO2 DETECTOR LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 54"A/F TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS.
- MOTOR LOCATION.
- DISCONNECT SWITCH, (FUSED SAFETY SWITCH), BY ELECTRICAL CONTRACTOR. SEE DISCONNECT SCHEDULE.
- AHU — AIR HANDLING UNIT, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- HP — HEAT PUMP, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- RTU — ROOF TOP UNIT, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- UH — UNIT HEATER, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- DWH — STORAGE TYPE ELECTRIC WATER HEATER, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
- CP — CONTROL SWITCH FOR CIRCULATING WATER PUMP. MOUNT 48" TO TOP OF BOX. A.H.U. LABEL CIRC. PUMP.
- CIRCULATING WATER PUMP. FURNISHED AND INSTALLED BY OTHERS, WIRED BY E.C.
- MSP — 3 POLE MOTOR RATED SWITCH WITH PLATE FOR MINI SPLIT INDOOR UNIT. EQUAL TO MTSU5018 STAEFA/SIEMON. MOUNT ENGINEERED PLACE IN WALL ADJACENT TO INDOOR AIR HANDLING UNIT.

CRITICAL SYSTEMS ENGINEERING
845 Lowcountry Blvd, Suite H
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CORPORATE SEAL

07/30/20
ARCHITECT'S/ENGINEER'S SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER):

NO.	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 16885.00
DATE: 07.30.20

CONSTRUCTION DOCUMENTS

Charleston County School District

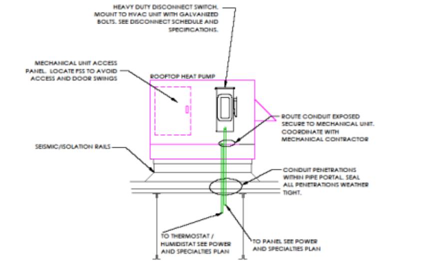
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Level 1 Area 2 Power & Specialties Plan

E2.02

FIREWALL INDICATIONS

- 1 HOUR WALL
- 2 HOUR WALL
- 3 HOUR WALL
- 4 HOUR WALL
- SMOKE WALL
- DEMO WALL



ROOFTOP DISCONNECT MOUNTING DETAIL

NO SCALE

1 ROOF AREA 2 POWER & SPECIALTIES PLAN
1/8" = 1'-0"

GENERAL ELECTRICAL SYMBOL SCHEDULE

	BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
	BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
	BRANCH CIRCUIT CONDUIT, EXPOSED. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
	BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
J	JUNCTION BOX WITH COVER.
GFI	GROUND FAULT INTERRUPTER.
WG	WIRE GUARD
WP	WEATHER PROOF.
EC	EMPTY CONDUIT. PROVIDE 16 GAUGE STEEL OR NYLON PULLWIRE.
ELC	ELECTRICAL CONTRACTOR
CM	DEVICE MOUNTED FACING DOWNWARD IN CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
AC	DEVICE MOUNTED ABOVE CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
F	FLOOR MOUNTED OUTLET OR CONDUIT STUB UP. SEE DETAILS ON KITCHEN PLAN
EMS	ENERGY MANAGEMENT SYSTEM CONNECTION. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
OC	MOUNT OVER COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DRAWINGS.
SPD	SURGE PROTECTED DEVICE. FORMALLY KNOWN AS "TVSS"
F & I	FURNISH AND INSTALL
MC	METAL CLAD CABLE
RMC	RIGID METAL CONDUIT
FMC	FLEXIBLE METAL CONDUIT
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
PVC	RIGID POLYVINYL CHLORIDE CONDUIT
EMT	ELECTRICAL METALLIC TUBING

ELECTRICAL POWER & TELECOM SYMBOL SCHEDULE

	DUPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
GFI	DUPLEX GFI TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
WP	WEATHER RESISTANT DUPLEX GFI CONVENIENCE OUTLET WITH DAMP LOCATION LISTED COVER P&S #4511 OR APPROVED EQUAL. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
WIU	WEATHER RESISTANT DUPLEX GFI CONVENIENCE OUTLET WITH DIE CAST ALUMINUM, WET LOCATION LISTED WHILE IN USE COVER. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
USB	DUPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE AND TWO 2.1AMP USB CHARGING PORTS. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
	QUADRAPLEX TAMPER RESISTANT CONVENIENCE OUTLET WITH PLATE. MOUNT BOTTOM OF BOX 16" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. 20 AMP, 120 VOLT.
EWC	ELECTRIC WATER COOLER. LOCATE 120V, 20A OUTLET CONCEALED BEHIND WATER COOLER ENCLOSURE. VERIFY COOLER MOUNTING HEIGHT. CIRCUIT SHALL BE FED FROM GFCI PROTECTED BREAKER
	SPECIAL OUTLET WITH PLATE. MOUNT AS PER SPECIAL OUTLET SCHEDULE.
	ELECTRICAL PANELBOARD. SEE ELECTRICAL RISER DIAGRAM".
	DRY TYPE TRANSFORMER. SEE ELECTRICAL RISER DIAGRAM AND SPECIFICATIONS.
	SURFACE RACEWAY.
	HAND DRYER FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. EXCEL THIN AIR #TA-XX. COLOR AND MOUNTING HEIGHT BY ARCHITECT.
	MOUNTED P.A. SPEAKER. SEE SPECIFICATIONS AND TELECOMMUNICATION OR P.A. SYSTEM RISER DIAGRAM.
	WALL MOUNTED P.A. SPEAKER. SEE SPECIFICATIONS AND TELECOMMUNICATION OR P.A. SYSTEM RISER DIAGRAM.
	COMMUNICATIONS OUTLET. MOUNT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. SEE SPECS AND "TELECOM RISER DIAGRAM".
	COMMUNICATIONS OUTLET BOX WITH BLANK METAL PLATE FOR INTERACTIVE DISPLAY. SEE I. T. ELEVATIONS, SPECS AND "TELECOM RISER DIAGRAM".
	SOUND AUGMENTATION SPEAKER JUNCTION BOX ABOVE CEILING. PROVIDE 4"X 4" JUNCTION BOX WITH COVER PLATE. SEE "I.T. ELEVATION DETAILS".
	COMMUNICATIONS OUTLET BOXES WITH BLANK METAL PLATE FOR WIRELESS ACCESS POINT. MOUNT FACE DOWN IN CEILING TILE. SEE IT DETAILS.
	COMMUNICATIONS OUTLET BOXES WITH BLANK METAL PLATE FOR WALL MOUNTED WIRELESS ACCESS POINT.
TV 60"	TELEVISION WALL BOXES WITH DUPLEX CONVENIENCE OUTLET, TELECOM OUTLET, SCREEN OUTLET,AND CONDUITS. SEE INTERACTIVE BOARD I.T. ELEVATION DETAILS
RT WIU	ROOF TOP DUPLEX SERVICE OUTLET (GFI TYPE) WITH WET LOCATION LISTED WHILE IN USE COVER INTERMATIC #WP1010MC OR APPROVED EQUAL. 20 AMP, 120 VOLT.
T	THERMOSTAT OUTLET LOCATION, PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 48"AFF TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS. ON SPLIT SYSTEM UNITS, PROVIDE A 3/4"E.C. FROM THE HEAT PUMP TO THE AHU, IN ADDITION TO THE THERMOSTAT CONDUIT.
H	HUMIDISTAT OUTLET LOCATION, PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 48"AFF TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS.
CO2	CO2 DETECTOR LOCATION, PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 54"AFF TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS.
	MOTOR LOCATION.
	DISCONNECT SWITCH, (FUSED SAFETY SWITCH), BY ELECTRICAL CONTRACTOR. SEE DISCONNECT SCHEDULE.
AHU	AIR HANDLING UNIT, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
HP	HEAT PUMP, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
RTU	ROOF TOP UNIT, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
UH	UNIT HEATER, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
EWH	STORAGE TYPE ELECTRIC WATER HEATER, BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
CP	CONTROL SWITCH FOR CIRCULATING WATER PUMP. MOUNT 48" TO TOP OF BOX A.F.F. LABEL CIRC. PUMP.
	CIRCULATING WATER PUMP. FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELC.
SP	3 POLE MOTOR RATED SWITCH WITH PLATE FOR MINI SPLIT INDOOR UNIT. EQUAL TO MITSUBISHI #TAZ-MS303. MOUNT RECESSED FLUSH IN WALL ADJACENT TO INDOOR AIR HANDLING UNIT.

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CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

07/30/20

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19085.00
■ DATE: 07.30.20

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Roof Area 2 Power & Specialties Plan

E2.03

GENERAL ELECTRICAL SYMBOL SCHEDULE

	BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
	BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
	BRANCH CIRCUIT CONDUIT, EXPOSED. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
	BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
J	JUNCTION BOX WITH COVER.
GFI	GROUND FAULT INTERRUPTER.
W/G	WIRE GUARD
WP	WEATHER PROOF.
EC	EMPTY CONDUIT. PROVIDE 16 GAUGE STEEL OR NYLON PULLWIRE.
ELC	ELECTRICAL CONTRACTOR
CM	DEVICE MOUNTED FACING DOWNWARD IN CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
AC	DEVICE MOUNTED ABOVE CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
F	FLOOR MOUNTED OUTLET OR CONDUIT STUB UP. SEE DETAILS ON KITCHEN PLAN
EMS	ENERGY MANAGEMENT SYSTEM CONNECTION. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
OC	MOUNT OVER COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DRAWINGS.
SPD	SURGE PROTECTED DEVICE. FORMALLY KNOWN AS "TVSS"
F & I	FURNISH AND INSTALL
MC	METAL CLAD CABLE
RMC	RIGID METAL CONDUIT
FMC	FLEXIBLE METAL CONDUIT
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
PVC	RIGID POLYVINYL CHLORIDE CONDUIT
EMT	ELECTRICAL METALLIC TUBING

ELECTRICAL FIRE ALARM SYMBOL SCHEDULE

FACP	FIRE ALARM SYSTEM CONTROL PANEL. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'.
VACP	FIRE ALARM SYSTEM VOICE ALARM COMMUNICATION CONTROL PANEL. SEE SPECIFICATIONS AND "FIRE ALARM SYSTEM RISER DIAGRAM".
F	FIRE ALARM SYSTEM PULL STATION. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'.
F 15	FIRE ALARM SYSTEM WALL MOUNTED STROBE LIGHT. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'. CANDLEPOWER AS INDICATED.
F 15	FIRE ALARM SYSTEM WALL MOUNTED HORN/LIGHT COMBINATION. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'. CANDLEPOWER AS INDICATED.
	FIRE ALARM SYSTEM WALL MOUNTED SPEAKER/STROBE LIGHT COMBINATION. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'. CANDLEPOWER AS INDICATED.
15	FIRE ALARM SYSTEM CEILING MOUNTED STROBE LIGHT. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'. CANDLEPOWER AS INDICATED.
15	FIRE ALARM SYSTEM CEILING MOUNTED HORN/LIGHT COMBINATION. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'. CANDLEPOWER AS INDICATED.
	FIRE ALARM SYSTEM CEILING MOUNTED SPEAKER/STROBE LIGHT COMBINATION. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'. CANDLEPOWER AS INDICATED.
WP	FIRE ALARM SYSTEM EXTERIOR HORN. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'.
	FIRE ALARM SYSTEM SMOKE DETECTOR. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'.
DH	CEILING MOUNTED SMOKE DETECTOR FOR MAGNETIC DOOR HOLDER RELEASE. CONNECT TO FIRE ALARM SYSTEM. SEE SPECIFICATIONS AND FIRE ALARM SYSTEM RISER DIAGRAM.
	MAGNETIC DOOR HOLDERS SEE SPECIFICATIONS AND FIRE ALARM SYSTEM RISER DIAGRAM.
FAIM	FIRE ALARM INPUT MODULE SEE SPECIFICATIONS AND FIRE ALARM SYSTEM RISER DIAGRAM.
FAOM	FIRE ALARM OUTPUT MODULE SEE SPECIFICATIONS AND FIRE ALARM SYSTEM RISER DIAGRAM.
FAD	FIRE ALARM SYSTEM DUCT DETECTOR. SEE SPECIFICATIONS AND 'FIRE ALARM SYSTEM RISER DIAGRAM'.

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CORPORATE SEAL

07/30/20
ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19095.00
■ DATE: 07.30.20

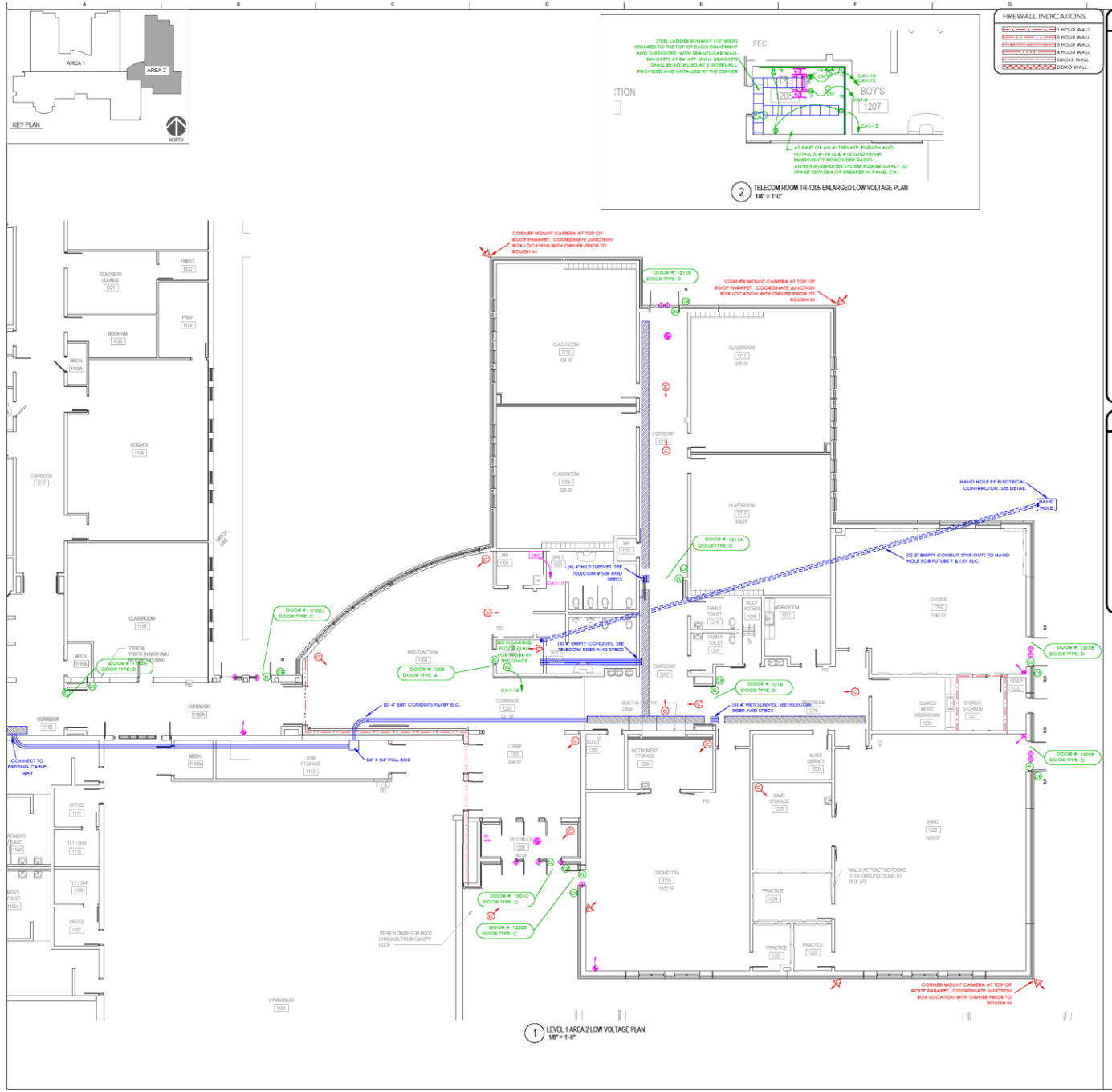
CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Level 1 Area 2
Fire Alarm Plan

E3.02


KEY PLAN
AREA 1
AREA 2
NORTH
2 TELECOM ROOM TR-1205 ENLARGED LOW VOLTAGE PLAN
1/4" = 1'-0"
1 LEVEL 1 AREA 2 LOW VOLTAGE PLAN
1/8" = 1'-0"
FIREWALL INDICATIONS
1 HOUR WALL
2 HOUR WALL
3 HOUR WALL
4 HOUR WALL
SMOKE WALL
DEMO WALL
GENERAL ELECTRICAL SYMBOL SCHEDULE
BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
BRANCH CIRCUIT CONDUIT, EXPOSED. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
JUNCTION BOX WITH COVER.
GFI GROUND FAULT INTERRUPTER.
WG WIRE GUARD
WP WEATHER PROOF.
EC EMPTY CONDUIT. PROVIDE 16 GAUGE STEEL OR NYLON PULLWIRE.
ELC ELECTRICAL CONTRACTOR
CM DEVICE MOUNTED FACING DOWNWARD IN CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
AC DEVICE MOUNTED ABOVE CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
F FLOOR MOUNTED OUTLET OR CONDUIT STUB UP. SEE DETAILS ON KITCHEN PLAN
EMS ENERGY MANAGEMENT SYSTEM CONNECTION. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
OC MOUNT OVER COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DRAWINGS.
SPD SURGE PROTECTED DEVICE. FORMALLY KNOWN AS "TVSS"
F & I FURNISH AND INSTALL
MC METAL CLAD CABLE
RMC RIGID METAL CONDUIT
FMC FLEXIBLE METAL CONDUIT
LFMC LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LFNC LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
PVC RIGID POLYVINYL CHLORIDE CONDUIT
EMT ELECTRICAL METALLIC TUBING
ELECTRICAL LOW VOLTAGE SYMBOL SCHEDULE
SECURITY SYSTEM MAGNETIC DOOR CONTACT. SEE SECURITY SYSTEM RISER DIAGRAM.
SECURITY SYSTEM KEY ENTRY SWITCH. SEE SECURITY SYSTEM RISER DIAGRAM.
CEILING MOUNTED SECURITY SYSTEM PASSIVE INFRARED DETECTOR. SEE SECURITY SYSTEM RISER DIAGRAM.
WALL MOUNTED SECURITY SYSTEM PASSIVE INFRARED DETECTOR. SEE SECURITY SYSTEM RISER DIAGRAM.
CR CARD READER CONTROL PANEL. SEE ACCESS CONTROL SYSTEM DETAILS
PS ACCESS CONTROL POWER SUPPLY. SEE ACCESS CONTROL SYSTEM DETAILS
EL ACCESS CONTROL SYSTEM ELECTRONIC MORTISE LOCK POWER TRANSFER HINGE. SEE ACCESS CONTROL SYSTEM DETAILS
WALL MOUNTED SECURITY SYSTEM SURVEILLANCE CAMERA. SEE TELECOMMUNICATIONS RISER DIAGRAM
CEILING MOUNTED SECURITY SYSTEM SURVEILLANCE CAMERA. SEE TELECOMMUNICATIONS RISER DIAGRAM
CABLETRAY. SEE TELECOMMUNICATIONS RISER DIAGRAM AND SPECIFICATIONS.
TGB TELECOMMUNICATIONS GROUNDING BUS. SEE SPECS AND "TELECOM RISER DIAGRAM".
SEC SECURITY SYSTEM CONTROL PANEL. SEE SECURITY SYSTEM RISER DIAGRAM.
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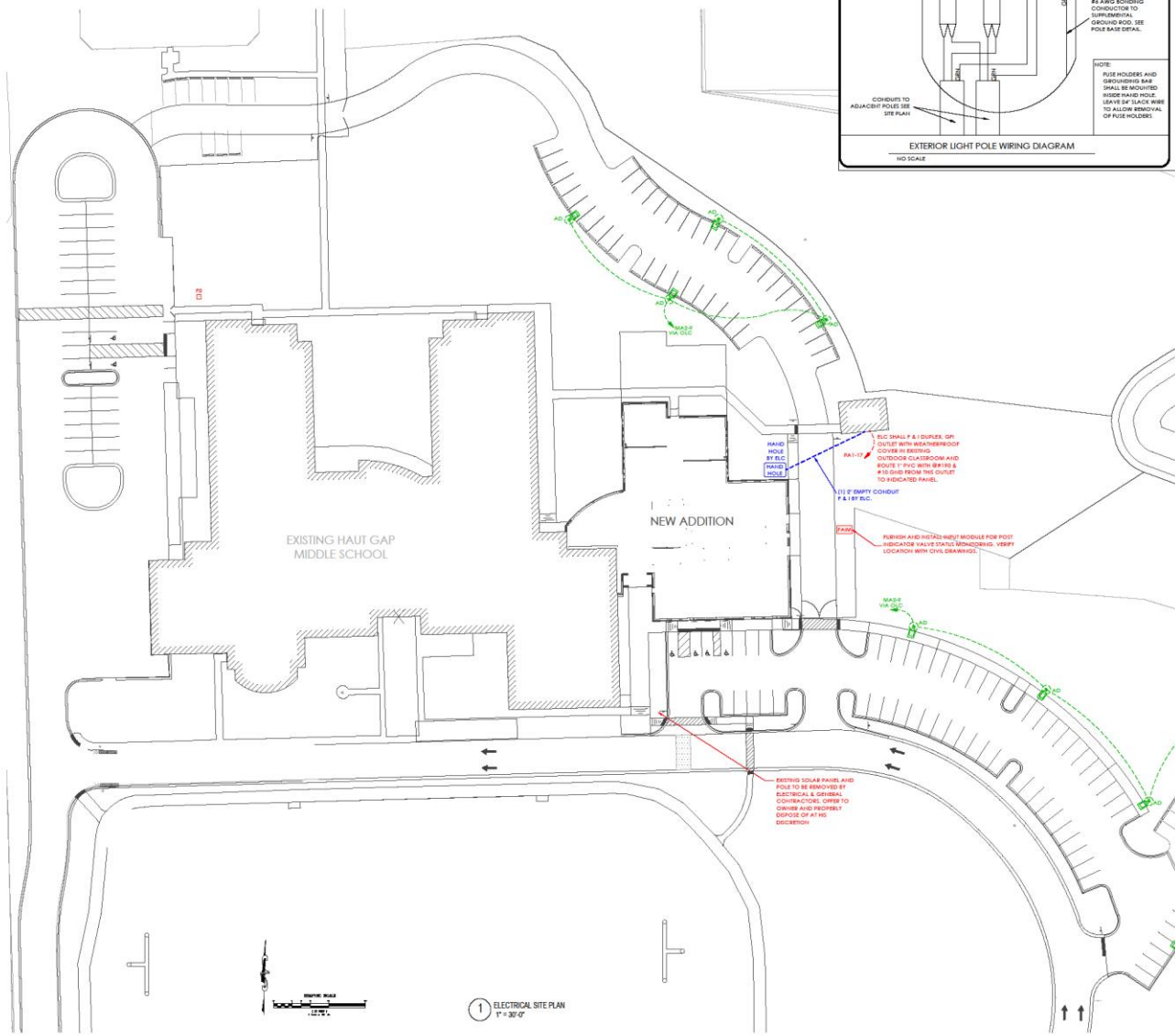
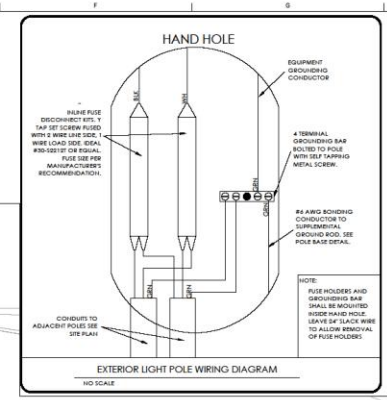
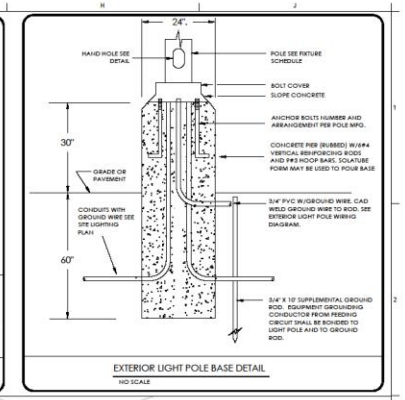
CORPORATE SEAL
07/30/20
ARCHITECT/ENGINEER SEAL
SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)
NO. DATE DESCRIPTION
APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION
PROJECT NUMBER: 16095.00
DATE: 07.30.20
CONSTRUCTION DOCUMENTS
Charleston County SCHOOL DISTRICT
HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS
Level 1 Area 2 Low Voltage Plan
E4.02
CRITICAL SYSTEMS ENGINEERING
845 Lowcountry Blvd. Suite H
Mount Pleasant, SC.
29464







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CORPORATE SEAL

07/30/20

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 19095.00
DATE: 07.30.20

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

ELECTRICAL SITE PLAN

E5.01

CRITICAL SYSTEMS ENGINEERING
845 Lowcountry Blvd. Suite H
Mount Pleasant, SC.
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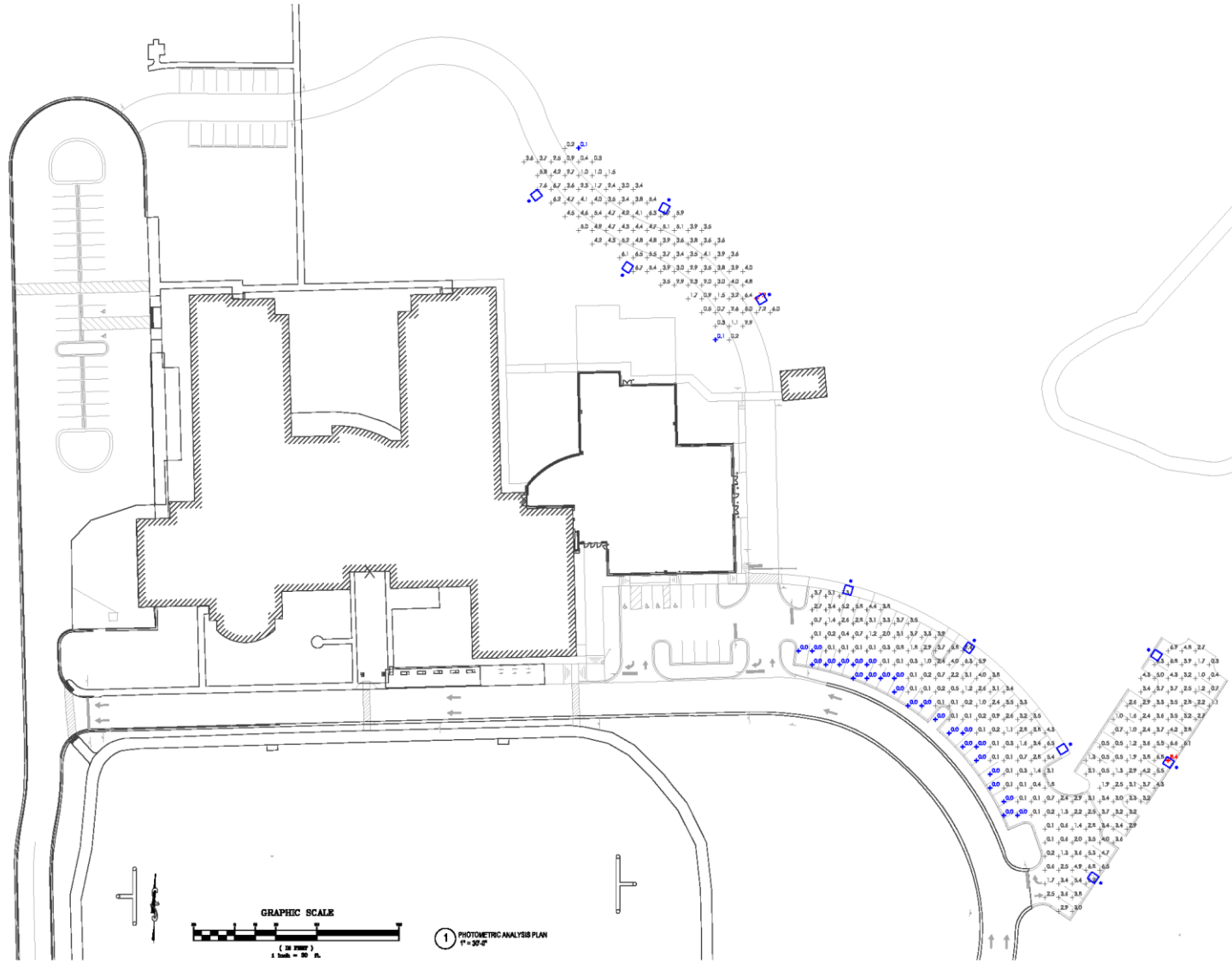
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Overflow Parking	+	3.7 fc	7.9 fc	0.1 fc	79.0:1	37.0:1
Parking	+	2.3 fc	8.4 fc	0.0 fc	N/A	N/A



1 PHOTOMETRIC ANALYSIS PLAN
1" = 30'-0"

S&W
ARCHITECTURE
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RED IRON ARCHITECTS

BROWNSTONE

CORPORATE SEAL

08/21/20

ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION
NOT APPROVED FOR CONSTRUCTION

PROJECT NUMBER: 18085.00
DATE: 07.30.20

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

PHOTOMETRIC ANALYSIS PLAN

E.5.02

CRITICAL SYSTEMS ENGINEERING
845 Lowcountry Blvd, Suite H
Mount Pleasant, SC
29464

A Phase	B Phase	C Phase	LOAD DESCRIPTION	NUM	BKR SIZE	BKR SIZE	NUM	LOAD DESCRIPTION	A Phase	B Phase	C Phase
PANEL LABEL: MA1			FULLY RATED SYM SCCR: 22000	VOLTAGE: 277/480	SYSTEM: 3 PHASE, 4 WIRE	TRIM: SURFACE - NEMA 1	RATING: 800 AMP	MAIN: 600 AMP MAIN BREAKER	NOTES:		
6850				1			2		6400		
	5388		PANEL MA2	3	70	70	4	PANEL CA1 VIA XFMR T2		5480	
		5856	1 1/4"C-4#4 & #8 GND	5			6	1"C-3#4 & #8 GND			6850
6422				7			8		6422		
	6422		RTU #1B	9	30	30	10	RTU #1A		6422	
		6422	1/2"C-3#10 & #10 GND	11			12	1/2"C-3#10 & #10 GND			6422
6422				13			14		10408		
	6422		RTU #1C	15	30	60	16	RTU #3A		10408	
		6422	1/2"C-3#10 & #10 GND	17			18	1"C-3#4 & #8 GND			10408
6422				19			20		13951		
	6422		RTU #1D	21	30	70	22	RTU #4A		13951	
		6422	1/2"C-3#10 & #10 GND	23			24	1"C-3#4 & #8 GND			13951
15722				25			26		9035		
	15722		VAU #1	27	90	45	28	RTU #2A		9035	
		15722	1 1/4"C-3#3 & #8 GND	29			30	3/4"C-3#6 & #10 GND			9035
18822				31			32		9035		
	18822		RTU #5A	33	90	45	34	RTU #2B		9035	
		18822	1 1/4"C-3#3 & #8 GND	35			36	3/4"C-3#6 & #10 GND			9035
15784				37			38		0		
	11223		PANEL PA1 VIA XFMR T1	39	70	30	40	SURGE PROTECTION DEVICE (SPD)		0	
		14251	1"C-3#4 & #8 GND	41			42	1/2"C-4#10 & #10 GND			0
76424	70421	73917							55251	57331	55731

Total Connected Load Phase A	131675	VA	132	kVA	Current A-N 475.4
Total Connected Load Phase B	127752	VA	128	kVA	Current B-N 461.2
Total Connected Load Phase C	129648	VA	130	kVA	Current C-N 468.3
Total Connected Load All Phases	389075	VA	389	kVA	468 AMPS

PROVIDE EXTERNAL SPD SYSTEM FOR PANELBOARD, SEE SPD INSTALLATION DETAIL.

A Phase	B Phase	C Phase	LOAD DESCRIPTION	NUM	BKR SIZE	BKR SIZE	NUM	LOAD DESCRIPTION	A Phase	B Phase	C Phase
PANEL LABEL: MA2			FULLY RATED SYM SCCR: 22000	VOLTAGE: 277/480	SYSTEM: 3 PHASE, 4 WIRE	TRIM: SURFACE - NEMA 1	RATING: 200 AMP	MAIN: MAIN LUGS ONLY	NOTES:		
4075			INTERIOR LIGHTING	1			2	CORRIDOR LIGHTING VIA LCTRL	2755		
	3479		INTERIOR LIGHTING	3			4	EXTERIOR LIGHTING VIA LCTRL		509	
		1856	INTERIOR LIGHTING	5			6	UNIT HEATER #1A			4000
			SPARE	7			8	SPARE			
	1400		PARKING LOT LIGHTING VIA LCTRL	9			10	SPARE			
			SPARE	11			12	SPARE			
			SPARE	13			14	SPARE			
			SPARE	15			16	SPARE			
			SPARE	17			18	SPARE			
2000				19			20				
	2000		EWH #1	21	20	30	22	SURGE PROTECTION DEVICE (SPD)			
		2000	1/2"C-3#12 & #12 GND	23			24	1/2"C-4#10 & #10 GND			
6075	6879	3856							2755	509	4000

Total Connected Load Phase A	8830	VA	9	kVA	Current A-N 31.9
Total Connected Load Phase B	7388	VA	7	kVA	Current B-N 26.7
Total Connected Load Phase C	7856	VA	8	kVA	Current C-N 28.4
Total Connected Load All Phases	24074	VA	24	kVA	29 AMPS

PROVIDE EXTERNAL SPD SYSTEM FOR PANELBOARD, SEE SPD INSTALLATION DETAIL.

A Phase	B Phase	C Phase	LOAD DESCRIPTION	NUM	BKR SIZE	BKR SIZE	NUM	LOAD DESCRIPTION	A Phase	B Phase	C Phase
PANEL LABEL: PA1			FULLY RATED SYM SCCR: 10000	VOLTAGE: 120/208	SYSTEM: 3 PHASE, 4 WIRE	TRIM: SURFACE - NEMA 1	RATING: 200 AMP	MAIN: 175 AMP MAIN BREAKER	NOTES:		
600			HOT WATER CIRCULATION PUMP	1		20	2	CONVENIENECE OUTLETS	1200		
	600		ROOFTOP CONVENIENCE OUTLETS	3			4	1/2"C-3#12 & #12 GND		1600	
		1128	EXHAUST FANS	5		20	6	CONVENIENECE OUTLETS			1300
1754			EXHAUST FANS	7			8	1/2"C-3#12 & #12 GND	1000		
	1000		CONVENIENCE OUTLETS	9		20	10	CONVENIENECE OUTLETS		800	
		1400	CONVENIENCE OUTLETS	11			12	1/2"C-3#12 & #12 GND			1400
1600			CONVENIENCE OUTLETS	13		20	14	CONVENIENECE OUTLETS	1200		
	400		CONVENIENCE OUTLETS	15			16	1/2"C-3#12 & #12 GND		1200	
		200	OUTDOOR CLASSROOM	17		20	18	CONVENIENECE OUTLETS			500
400			CONVENIENECE OUTLETS	19	20		20	1/2"C-3#12 & #12 GND	600		
	300		1/2"C-3#12 & #12 GND	21		20	22	CONVENIENECE OUTLETS		300	
		1000	CONVENIENECE OUTLETS	23	20		24	1/2"C-3#12 & #12 GND			400
500			1/2"C-3#12 & #12 GND	25			26	SPARE			
	1000		CONVENIENECE OUTLETS	27	20		28	SPARE			
		800	1/2"C-3#12 & #12 GND	29			30	SPARE			
1200			COPIER	31			32		3600		
			SPARE	33		70	34	PANEL PA2		2400	
			SPACE	35			36	1 1/4"C-4#4 & #8 GND			1800
				37			38		0		
	1423		HEAT PUMP #6A	39	20	30	40	SURGE PROTECTION DEVICE (SPD)		0	
		1423	1/2"C-3#10 & #10 GND	41			42	1/2"C-4#10 & #10 GND			0
6384	4923	6151							7600	6300	5100

Total Connected Load Phase A	13984	VA	14	kVA	Current A-N 116.5
Total Connected Load Phase B	11223	VA	11	kVA	Current B-N 93.5
Total Connected Load Phase C	11251	VA	11	kVA	Current C-N 93.8
Total Connected Load All Phases	36458	VA	36	kVA	101 AMPS

PROVIDE EXTERNAL SPD SYSTEM FOR PANELBOARD. SEE SPD INSTALLATION DETAIL.

A Phase	B Phase	C Phase	LOAD DESCRIPTION	NUM	BKR SIZE	BKR SIZE	NUM	LOAD DESCRIPTION	A Phase	B Phase	C Phase
PANEL LABEL: PA2			FULLY RATED SYM SCCR: 10000	VOLTAGE: 120/208	SYSTEM: 3 PHASE, 4 WIRE	TRIM: SURFACE - NEMA 1	RATING: 125 AMP	MAIN: MAIN LUGS ONLY	NOTES:		
1200			HAND DRYER **GFI**	1			2	HAND DRYER **GFI**	1200		
	1200		HAND DRYER **GFI**	3			4	HAND DRYER **GFI**		1200	
		1200	EWC **GFI**	5			6	EWC **GFI**			600
1200			EWC **GFI**	7			8	SPARE			
	1200		HAND DRYER **GFI**	9			10	SPARE			
		1200	HAND DRYER **GFI**	11			12	SPARE			
			SPARE	13			14	SPARE			
			SPARE	15			16	SPARE			
			SPARE	17			18	SPARE			
			SPARE	19			20				
			SPARE	21		30	22	SURGE PROTECTION DEVICE (SPD)			
			SPARE	23			24	1/2"C-4#10 & #10 GND			
2400	2400	2400							1200	1200	600

Total Connected Load Phase A	3600	VA	4	kVA	Current A-N 30.0
Total Connected Load Phase B	3600	VA	4	kVA	Current B-N 30.0
Total Connected Load Phase C	3000	VA	3	kVA	Current C-N 25.0
Total Connected Load All Phases	10200	VA	10	kVA	28 AMPS

PROVIDE EXTERNAL SPD SYSTEM FOR PANELBOARD. SEE SPD INSTALLATION DETAIL.
CIRCUIT NOS. 1-7, 9 11 SHALL BE FED FROM GFCI BREAKERS

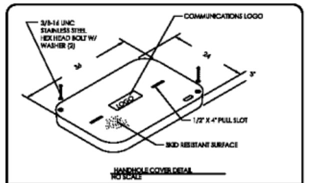
A Phase	B Phase	C Phase	LOAD DESCRIPTION	NUM	BKR SIZE	BKR SIZE	NUM	LOAD DESCRIPTION	A Phase	B Phase	C Phase
PANEL LABEL: CA1			FULLY RATED SYM SCCR: 10000	VOLTAGE: 120/208	SYSTEM: 3 PHASE, 4 WIRE	TRIM: SURFACE - NEMA 1	RATING: 200 AMP	MAIN: 110 AMP MAIN BREAKER	NOTES:		
1600			INSTRUCTIONAL WALL OUTLETS	1			2	INSTRUCTIONAL WALL OUTLETS	1600		
	1600		INSTRUCTIONAL WALL OUTLETS	3			4	INSTRUCTIONAL WALL OUTLETS		1600	
		1600	INSTRUCTIONAL WALL OUTLETS	5			6	INSTRUCTIONAL WALL OUTLETS			1600
1600			INSTRUCTIONAL WALL OUTLETS	7			8	TELECOM ROOM OUTLETS	400		
	1600		INSTRUCTIONAL WALL OUTLETS	9		30	10	SERVER		2880	
		800	FIRE ALARM PANEL	11			12	1/2"C-3#10 & #10 GND			2880
1200			TELECOM ROOM OUTLETS	13			14	DOOR HOLD OPENS	400		
	800		ACCESS CONTROL PWR SUPPLY	15			16	SPARE			
		600	SECURITY SYSTEM	17			18	SPARE			
			SPARE	19			20	SPARE			
			SPARE	21			22	SPARE			
			SPARE	23			24	SPARE			
			SPARE	25			26	SPARE			
			SPARE	27			28	SPARE			
			SPARE	29			30	SPARE			
			SPARE	31			32	SPARE			
			SPARE	33			34	SPARE			
			SPARE	35			36	SPARE			
			SPARE	37			38				
			SPARE	39		30	40	SURGE PROTECTION DEVICE (SPD)			
			SPARE	41			42	1/2"C-4#10 & #10 GND			
4400	4000	3000							2400	4480	4480

Total Connected Load Phase A	6800	VA	7	kVA	Current A-N 56.7
Total Connected Load Phase B	8480	VA	8	kVA	Current B-N 70.7
Total Connected Load Phase C	7480	VA	7	kVA	Current C-N 62.3
Total Connected Load All Phases	22760	VA	23	kVA	63 AMPS

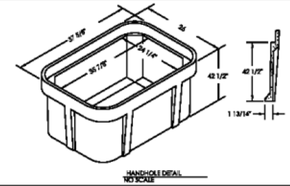
PROVIDE EXTERNAL SPD SYSTEM FOR PANELBOARD. SEE SPD INSTALLATION DETAIL.
THIS PANEL SHALL BE FURNISHED WITH 200% NEUTRALS
CIRCUIT NO. 11 SHALL BE RED IN COLOR AND SHALL HAVE A HANDLE CLAMP TO HOLD THE BREAKER IN THE ON POSITION.

PANELBOARD NOTES

1. EACH PANELBOARD AND SWITCHBOARD SHALL HAVE 5 SPARE EMPTY CONDUITS STUBBED TO ABOVE CEILING LOCATION FOR FUTURE USE.
2. ALL PANELBOARDS AND SWITCHBOARDS SHALL HAVE PHENOLIC LABELS ATTACHED TO GEAR WITH TWO RIVETS. SEE SPECS.
3. ALL PANELBOARDS AND SWITCHBOARDS SHALL HAVE TYPE WRITTEN CIRCUIT DIRECTORY WHICH REFERENCES THE ACTUAL ROOM NUMBERS SHOWN ON DOOR SIGNAGE NOT THOSE SHOWN ON THESE PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL ROOM NUMBERS.
4. ALL MULTIWIRE BRANCH CIRCUITS SHALL HAVE MULTI POLE BREAKERS TO SIMULTANEOUSLY OPEN ALL UNGROUNDED CONDUCTORS.



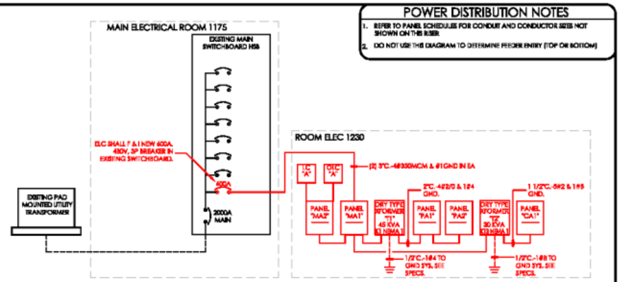
HANDHOLE COVER DETAIL
NO SCALE


HANDHOLE DETAIL
NO SCALE

NOTES:
1. TOP OF COVER SHALL BE FLUSH WITH GRADE OR SIDEWALK.
2. ENCLOSURES, BOXES AND COVERS ARE REQUIRED TO CONFORM TO ALL TEST PROVISIONS OF ANSI/SCTE 77 FOR TIER 15 APPLICATIONS.
3. INSTALL HANDHOLE ON A MINIMUM 6" BED OF PEA GRAVEL.
4. HANDHOLE AND COVER SHALL BE UL LISTED WITH SOLID BOTTOM.
5. BOXES AND COVERS SHALL BE CONSTRUCTED OF POLYMER CONCRETE.
6. COVERS SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.50.

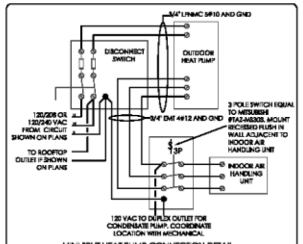
POWER DISTRIBUTION NOTES

1. REFER TO PANEL SCHEDULES FOR CONDUIT AND CONDUCTOR SIZES NOT SHOWN ON THE RISER.
2. DO NOT USE THIS DIAGRAM TO DETERMINE FEEDER ENTRY (TOP OR BOTTOM).



POWER DISTRIBUTION ELECTRICAL RISER DIAGRAM

NO SCALE

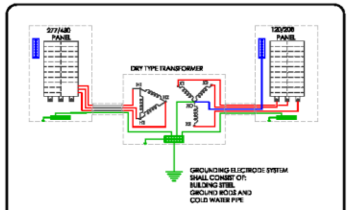


MINI SPLIT HEAT PUMP CONNECTION DETAIL
NO SCALE

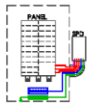
DISCONNECT SWITCH SCHEDULE

SWITCH NO.	VOLTS	POLES	WIRES	SWITCH SIZE	FUSE SIZE	NEMA TYPE	REMARKS
1	600	3	3	30	30	3R	RTU #1
2	600	3	3	60	45	3R	RTU #2
3	600	3	3	60	60	3R	RTU #3
4	600	3	3	100	70	3R	RTU #4
5	600	3	3	100	90	3R	RTU #5, VAU #1
6	240	2	2	30	20	3R	HP #6
7	600	3	3	30	20	1	EWH #1

NOTE:
DISCONNECTS MOUNTED TO MECHANICAL UNITS SHALL NOT BE MOUNTED TO OR INTERFERE WITH THE OPERATION OF ACCESS COVERS. THEY SHALL NOT OBSTRUCT ANY UNIT NOMENCLATURE OR NAMEPLATES.



DRY TYPE TRANSFORMER CONNECTION DETAIL

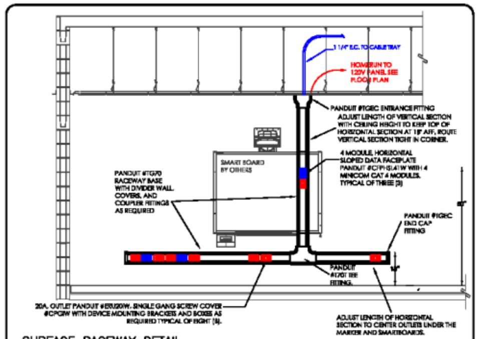


UL 1449 4TH EDITION VPR RATINGS	L-N	N-G	L-G	L-L
120/240	700	400	700	1000
120/208	700	600	700	1000
240	N/A	N/A	1000	1000
277/480	1200	1200	1200	2000
480	N/A	N/A	1800	2000
346/600	1500	1500	1500	2500

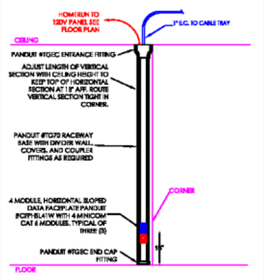
NOTES:
1. SPD UNIT SHALL BE MOUNTED ADJACENT TO SURFACE MOUNTED PROTECTED PANELS WITHIN 2" OF THE PANEL AND INTERNAL TO FLUSH MOUNTED PANELS.
2. EXTERNAL SPD UNITS SHALL BE CONNECTED TO A 30A, 3 POLE BREAKER IN THE PROTECTED PANEL VIA 4#10 AND #10 GND. PHASE CONDUCTORS SHALL BE LESS THAN 10" LONG AND SHALL BE TIGHTLY TWISTED WITH NO SHARP BENDS. NEUTRAL AND GROUND CONDUCTORS SHALL BE CONNECTED TO NEAREST BUSSES WITHIN THE PANEL AND SHALL BE AS SHORT AS POSSIBLE.
3. THE SPD METAL OXIDE VARISTORS (MOVS) MUST BE INDIVIDUALLY FUSED, ALLOWING THE SPD TO FUNCTION ON MODES THAT ARE NOT FAILED. FUSES PROTECTING AN ENTIRE PHASE OR PROTECTING AN ENTIRE MODULE ARE NOT ACCEPTABLE.
4. SPD SHALL MEET OR EXCEED THE FOLLOWING U.L. 1449 4th EDITION PERFORMANCE CRITERIA:

SURGE CURRENT — AT LEAST 80KA/MODE, 130 KA/PHASE
MODES OF PROTECTION — ALL, (L-N, L-L, L-G, N-G)
MAX CONT OPER VOLTAGE — AT LEAST 115% OF NOMINAL
FAULT CURRENT RATING — 200,000 AIC
UL 1449 NOMINAL DISCHARGE 20kA

SPD INSTALLATION DETAIL



SURFACE RACEWAY DETAIL



OFFICE 1150 / 1151 SURFACE RACEWAY ELEVATION
NO SCALE

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CORPORATE SEAL

07/30/20
ARCHITECT/ENGINEER SEAL

SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
☐ NOT APPROVED FOR CONSTRUCTION
■ PROJECT NUMBER: 15685.00
■ DATE: 07.30.20

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Power Distribution Schedules and Details

E6.01

CRITICAL SYSTEMS ENGINEERING
845 Lowcountry Blvd. Suite H
Mount Pleasant, SC
29464

LIGHT FIXTURE SCHEDULE

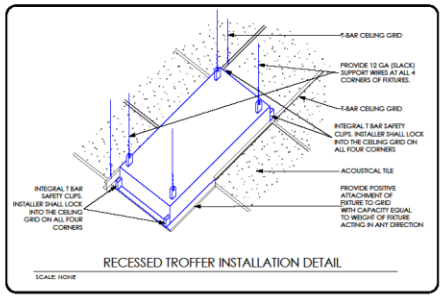
PKT.	TYPE	COLOR TEMP	INIT. LUMENS	VOLTS	MOUNTING	MANUFACTURER & NUMBER	COLOR REND. INDEX	INPUT WATTS	NOTES	DESCRIPTION
A	LED	4000K	7200	120V OR 277V	RECESS	DAYBRITE #2TG-74L-840-4FS-02F COLUMBIA #LJT24-40VLG-FSA12125-E	>80	71		2X4 RECESSED FIXTURE - 7200 LUMENS
B	LED	4000K	4000	120V OR 277V	RECESS	DAYBRITE #2TG-43L-840-4FS-02F COLUMBIA #LJT24-40LWG-FSA12125-E-ESD	>80	40	COLOR BY ARCHITECT	2X4 RECESSED FIXTURE - 4000 LUMENS
C	LED	4000K	4000	120V OR 277V	WALL OVER DOOR	DAYBRITE #OWL-4-40L-840-UNV COLUMBIA #LAW4-40ML-E	>80	40		SURFACE MOUNTED WRAP
D	LED	4000K	6000	120V OR 277V	SURFACE	COLUMBIA #MPS4-40ML-CW-EDU-CSHC-MPSWG4	>80	86	PROVIDE CHAINS AND UNISTRUT IN ROOMS WITH NO CEILINGS.	48" INDUSTRIAL STRIP WITH WIRE GUARD
F1	LED	4000K	1000/FT	120V OR 277V	PENDANT	NULITE #9P48-10L40-UNV-O-1C-FRF-XX-7X-48"-24'	>80	240		24' 4' WIDE LINEAR PENDANT
F2	LED	4000K	1000/FT	120V OR 277V	PENDANT	NULITE #9P48-10L40-UNV-O-1C-FRF-XX-7X-48"-32'	>80	320		32' 4' WIDE LINEAR PENDANT
G	LED	4000K	1500	120V OR 277V	RECESS	SPECTRUM #SQA-6R-T277MWL20-AR6415-SQ	>80	20	WITH 20 WATT MAX DERATING LABEL LAMP #CREE PAR38-120W-30K-45D	6" RECESSED CAN WITH SCREW IN LED LAMP SOME FIXTURES REQUIRE SLOPED CEILING ADAPTER
H	LED	4000K	5310	120V OR 277V	PENDANT	PRUDENTIAL #BIO3-LRI-LED4-HO-4'-SAL-D1-HU-SC-CAXX	>80	72	COLOR & MOUNTING HEIGHT BY ARCHITECT	6' 2' WIDE PENDANT
K1	LED	4000K	6795	120V OR 277V	PENDANT	NULITE #9P24-ID-06-L40-UNV-1C-FRF-XX-XX-48-4x4 SQ	>80	86	COLOR & MOUNTING HEIGHT BY ARCHITECT WITH INTEGRAL DRIVER	DECORATIVE PENDANT
K2	LED	4000K	4960	120V OR 277V	PENDANT	NULITE #9P24-D-06-L40-UNV-1C-FRF-XX-XX-48-3X3 SQ	>80	62	COLOR & MOUNTING HEIGHT BY ARCHITECT WITH INTEGRAL DRIVER	DECORATIVE PENDANT
K3	LED	4000K	3175	120V OR 277V	PENDANT	NULITE #9P24-RISIDE LENS-06-L40-UNV-1C-FRF-XX-XX-48-2x2 SQ	>80	40	COLOR & MOUNTING HEIGHT BY ARCHITECT WITH INTEGRAL DRIVER	DECORATIVE PENDANT
L	LED	4000K	5900	120V OR 277V	PENDANT	CORONET #QUAD LED-3-40-LTG1-AC	>80	32	COLOR & MOUNTING HEIGHT BY ARCHITECT	DECORATIVE PENDANT
M	LED	4000K	320	277V	PENDANT	FEELUX #DVS4-40K-ST-RM-XX-1-HW-HDM-277V	>80	4	ELC SHALL MOUNT TO TOP OF CASE COORDINATE LOCATION WITH ARCHITECT	TROPHY CASE LIGHTING
N	LED	4000K	3300	120V OR 277V	RECESS	DAYBRITE #2TG-30L-840-2FS-02F COLUMBIA #LJT20-40WLG-FSA12125-E	>80	36		2X2 RECESSED FIXTURE
	LED	N/A	N/A	120V OR 277V	WALL OR CEILING	COOPER #LFX7G-GWH DUAL LITE #LFXGWE	N/A	N/A	SEE SYMBOL SCHEDULE FOR MOUNT W/ ARROWS, FACES, AND MOUNTING	WHITE EXIT WITH GREEN LETTERS WITH BATTERY
	LED	N/A	N/A	120V OR 277V	WALL	DUAL LITE #EVHC13B-06C	N/A	N/A	MOUNT AT THE LOWER OF THE CEILING HEIGHT OR 10' AFF	WALL PACK EMERGENCY LIGHT
	LED	N/A	N/A	120V OR 277V	WALL	DUAL LITE #EVC-U-G-W-D41	N/A	N/A	MOUNT AT THE LOWER OF THE CEILING HEIGHT OR 10' AFF	COMBO WHITE EXIT WITH GREEN LETTERS WITH WITH BATTERY, EMERG LIGHT

SPECIAL LIGHTING NOTES:

1. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR AND MATERIALS NECESSARY TO INSTALL 5% ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHTS AT LOCATIONS TO BE DETERMINED ON SITE. UNUSED EXITS OR EMERGENCY LIGHTS SHALL BE OFFERED TO OWNER FOR USE AS SPARES. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

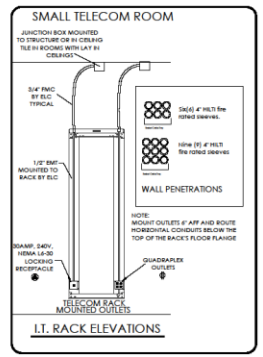
EXTERIOR LIGHT FIXTURE SCHEDULE

PKT.	LAMP INFORMATION: TYPE	COLOR TEMP	INIT. LUMENS	VOLTS	MOUNTING	MANUFACTURER & NUMBER	INPUT WATTS	NOTES	DESCRIPTION
AA	LED	4000K	3100	120V OR 277V	WALL OVER DOOR	LUMINAIRE LED #AEL36-30W-4000K-CC--DP-EMB105T	26	COLOR BY ARCHITECT TYPE ACS SHALL INTEGRAL PHOTOCELL WITH EMERGENCY BATTERY PACK.	EXTERIOR EGRESS OVER DOOR
AB	LED	4000K	3000	120V OR 277V	RECESS	SPECTRUM #SQDF6LEDOS-30L-40K-E-CB-EM-AR6160DFOS-FAF	30	WET LOCATION, SHALLOW PLENUM WITH EMERGENCY BATTERY PACK.	LED RECESSED EXTERIOR CAN
AC	LED	4000K	3900	120V OR 277V	RECESS	HUBBLE #LMC-30LU-4K-4-035-X-BBU	35	COLOR & MOUNTING HEIGHT BY ARCHITECT WITH EMERGENCY BATTERY PACK.	LED WALL PACK SECURITY LIGHT
AD	LED	4000K	10000	277V	POLE	GARDCO #ECPL-4B-P30-1WGS-AR-3-UNV-DDT POLE UNITED #RSA5183-D1-VD BEACON #VPL-L-64L-135-3-A-DBT POLE#25A-S-5-18-SC-C-CAP-1-BS-VMS	140	ONE FIXTURE WITH ROUND STRAIGHT ALUM POLE. 18'-0", 100 MPH/130 GUST, EPA =2.0	LED POLE MOUNT SITE LIGHTING

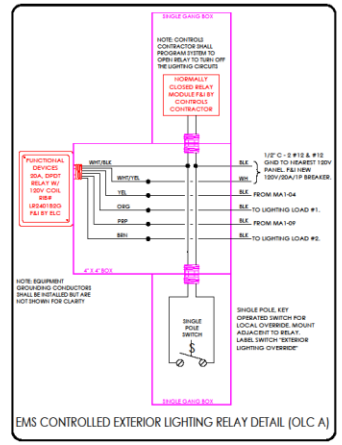


RECESSED TROFFER INSTALLATION DETAIL

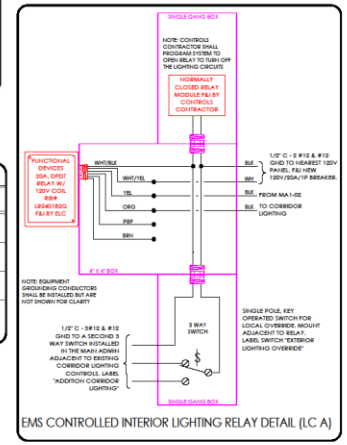
SCALE: NONE



I.T. RACK ELEVATIONS

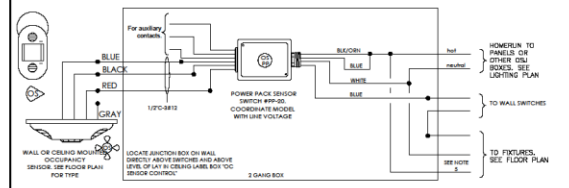


EMS CONTROLLED EXTERIOR LIGHTING RELAY DETAIL (OLC A)

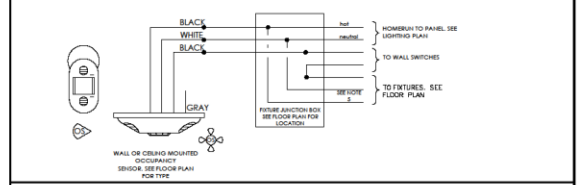


EMS CONTROLLED INTERIOR LIGHTING RELAY DETAIL (LC A)

MULTIPLE OCCUPANCY SENSOR DETAIL



SINGLE OCCUPANCY SENSOR DETAIL



OCCUPANCY SENSOR NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS. OCCUPANCY SENSORS SHALL BE CONFIGURED FOR 16 MIN DELAY IN ALL SPACES EXCEPT GROUP TOILETS WHICH SHALL BE CONFIGURED FOR 30 MIN DELAY.
2. AUTO SENSITIVITY AND AUTO ADAPTATION FEATURES SHALL BE ENABLED ON ALL SENSORS
3. OCCUPANCY SENSOR POWER BASES SHALL BE PROVIDED IN EACH ROOM INDICATED TO HAVE ONLY ONE LIGHTING CIRCUIT AND ONE OCCUPANCY SENSOR. SPACES WHICH ARE SHOWN TO HAVE MULTIPLE CIRCUITS OR MULTIPLE SENSORS SHALL UTILIZE POWER PACKS.
4. ALL SENSORS SHALL BE COMMISSIONED BY A MANUFACTURER'S REPRESENTATIVE AFTER FINAL OCCUPANCY INSPECTION.
5. EMERGENCY LIGHTS UTILIZING BATTERY PACKS SHALL BE PROVIDED WITH UNSWITCHED HOT FOR CONNECTION TO BATTERIES.
6. ELECTRICAL CONTRACTOR SHALL FURNISH 3 SPARE SENSORS AND POWER BASES TO OWNER TO SERVE AS SPARES.
7. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
8. SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
9. SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
10. IN ROOMS WITH MULTIPLE SENSORS, OCCUPANCY SENSOR POWER PACKS SHALL BE FURNISHED AND INSTALLED. THE POWER PACK SHALL BE MOUNTED IN A DEDICATED SURFACE MOUNTED TWO GANG BOX ABOVE THE LAY IN CEILING DIRECTLY OVER THE WALL SWITCH FOR THE ROOM. FURNISH AND INSTALL A BLANK COVER PLATE FOR THIS BOX. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
    A. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
    B. EACH POWER PACK CAN SUPPLY UP TO 150mA. REFER TO INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK.
    C. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS SHALL BE USED IN CONJUNCTION WITH A POWER PACK.
11. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL PHENOLIC LABEL ON CEILING GRID DIRECTLY BELOW POWER PACK LOCATION WHICH STATES "POWER PACK"

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CORPORATE SEAL

07/30/20

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19095.00
■ DATE: 07.30.20

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Lighting Schedules and Details

E6.02

CRITICAL SYSTEMS ENGINEERING
845 Lowcountry Blvd, Suite H
Mount Pleasant, SC
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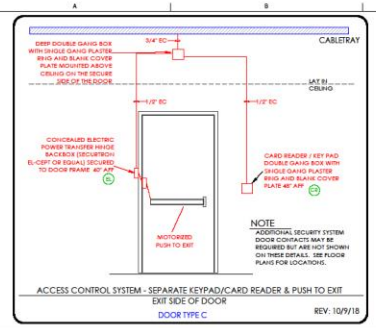
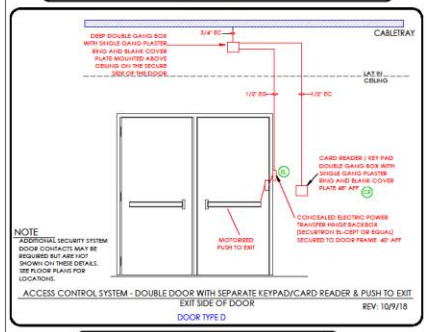


ACCESS CONTROL SYSTEM - SEPARATE KEYPAD/CARD READER & PUSH TO EXIT

EXIT SIDE OF DOOR

DOOR TYPE C

REV: 10/9/18

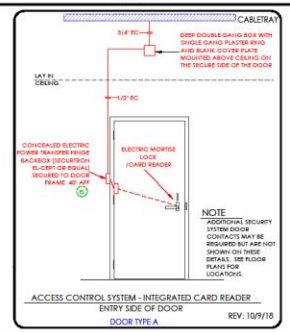


ACCESS CONTROL SYSTEM - DOUBLE DOOR WITH SEPARATE KEYPAD/CARD READER & PUSH TO EXIT

EXIT SIDE OF DOOR

DOOR TYPE D

REV: 10/9/18



ACCESS CONTROL SYSTEM - INTEGRATED CARD READER

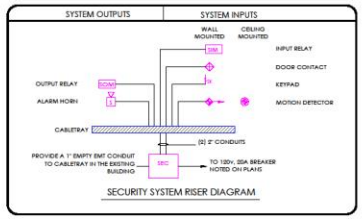
ENTRY SIDE OF DOOR

DOOR TYPE A

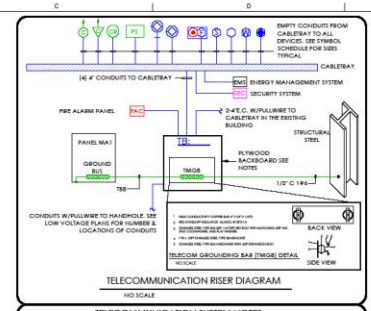
REV: 10/9/18

ACCESS CONTROL SYSTEM NOTES:

1. ACCESS CONTROL SYSTEM DEVICES AND WIRING ARE FURNISHED BY OTHERS. ELC SHALL F & I 120 VOLT POWER AND RACEWAY SYSTEM.
2. POWER SUPPLIES, DOOR HARDWARE, ELECTRONIC LOCKS, POWER TRANSFER HINGES, AND WIRING TO THE POWER SUPPLY SHALL BE FURNISHED AND INSTALLED BY THE DOOR HARDWARE OR STOREFRONT SUPPLIER. REFER TO ARCHITECTURAL SPECIFICATIONS FOR MORE INFORMATION.
3. CARD READERS, MOMENTARY PUSHBUTTONS, HARDWARE AND CABLING NECESSARY TO INTERCONNECT ACCESS CONTROL SYSTEM TO THE OWNERS NETWORK SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S ACCESS CONTROL SYSTEM CONTRACTOR.
4. ROUTE CONDUIT CONCEALED EITHER OVERHEAD OR WITHIN WALLS. CONDUITS SHALL NOT BE ROUTED BELOW THE FIRST FLOOR SLAB UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.
5. SEE FLOOR PLANS FOR EXACT NUMBER AND LOCATIONS OF EQUIPMENT AND STATIONS.
6. REFER TO FLOOR PLANS AND ARCHITECTURAL HARDWARE SCHEDULES FOR LOCATION OF DEVICES.



SECURITY SYSTEM RISER DIAGRAM



TELECOMMUNICATION RISER DIAGRAM

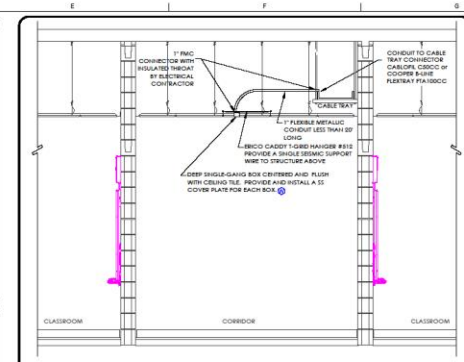
NO SCALE

TELECOMMUNICATION SYSTEM NOTES:

1. ROUTE CONDUIT CONCEALED EITHER OVERHEAD OR WITHIN WALLS. CONDUITS SHALL NOT BE ROUTED BELOW THE FIRST FLOOR SLAB UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.
2. SEE FLOOR PLANS FOR EXACT NUMBER AND LOCATIONS OF EQUIPMENT AND STATIONS.
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TELECOMMUNICATION BONDING SYSTEM AS SHOWN ON THE SYSTEM GROUNDING AND BONDING RISER DIAGRAM FOUND ELSEWHERE IN THESE CONTRACT DOCUMENTS. SIZE OF TELECOMMUNICATIONS BONDING BACKBONE (TBB) SHALL BE AS PER TELECOMMUNICATION INFRASTRUCTURE SPECIFICATIONS.
4. UNLESS SHOWN OTHERWISE, ALL PATHWAYS TO OUTLETS SHOWN ON PLANS SHALL BE 1" EMPTY CONDUIT WITH PULL STRINGS.
5. FURNISH AND INSTALL CONDUIT ONLY PATHWAY FOR FIRE ALARM CIRCUITS. THESE CIRCUITS MAY NOT BE ROUTED THROUGH CABLE TRAY.
6. DATA AND PA CONDUIT PATHWAYS SHALL BE CONTINUOUS FROM OUTLET TO CABLE TRAY AND CONTAIN NO MORE THAN TWO 90° BENDS. PATHWAYS LESS THAN 100 FT. IN LENGTH SHALL NOT CONTAIN JUNCTION OR PULL BOXES. PATHWAYS GREATER THAN 100 FT. WILL REQUIRE A PULL BOX EVERY 100 FT. INSTALLED PULL BOXES SHALL NOT CHANGE THE DIRECTION OR ANGLE OF THE CONDUIT PATHWAY. EACH ROOM SHALL HAVE INDIVIDUAL PATHWAYS DIRECTLY TO THE CORRIDOR CABLE TRAY. INSTALL PULL STRINGS IN ALL CONDUIT PATHWAYS. ATTACH CONDUITS TO CABLES TRAY
7. TELECOMMUNICATION CONDUITS SHALL HAVE BUSHINGS INSTALLED AND SHALL BE SECURED TO THE TRAY WITH CLIPS PROVIDED BY THE TRAY MANUFACTURER
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL U.L. LISTED FIRE STOPPING SYSTEM AT EACH CONDUIT FIRE WALL PENETRATION .
9. FURNISH AND INSTALL 6 HILTI CP 653-4" FIRE RATED PATHWAYS AT EACH CABLE TRAY FIRE WALL PENETRATION. DO NOT PENETRATE RATED WALLS WITH TRAY. INSTALL AS PER MANUFACTURES RECOMMENDATIONS FOR TYPE OF WALL AND RATING. (TYPICAL AT ALL FIRE WALLS).
10. ALL TELECOM CONDUITS WHICH PENETRATE FIREWALLS AND TERMINATE AT CABLE TRAY SHALL BE FILLED WITH A U.L. LISTED FIRE STOPPING SYSTEM AFTER TELECOM CABLES HAVE BEEN INSTALLED.
11. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 6 4" SLEEVES AS SHOWN ON PLANS WHERE CABLE TRAY PENETRATES HIGH RATED WALLS.
12. CAREFULLY COORDINATE LOCATION OF CABLE TRAY WITH MECHANICAL, PLUMBING, AND SPRINKLER CONTRACTORS. CEILING SPACE ABOVE CORRIDORS WILL BE EXTREMELY CONGESTED. MATERIAL AND LABOR REQUIRED TO RELOCATE CABLETRAY DUE TO CONFLICTS WITH OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR
13. CABLE TRAY SHALL BE SHAPED WIRE BASKET CABLE TRAY FROM WBT. TRAY SHALL BE 18" WIDE BY 4" DEEP MODEL #WB18X18S, MOUNT IN CORRIDOR CEILING SPACE 6" ABOVE CEILING, TO ONE SIDE. DO NOT LOCATE IN CENTER OF SPACE. ROUND WIRE TRAY SHALL NOT BE SUBSTITUTED.
14. PROVIDE CABLE TRAY AROUND PERIMETER OF TELECOM ROOM AND SECURITY ROOMS 6" FROM THE WALL. INSTALL AT SAME HEIGHT AS CORRIDOR TRAY.
15. THE CABLE TRAY IS FOR THE OWNERS USE AND SHALL NOT BE USED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE INDICATED ELSEWHERE ON THESE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT RACEWAYS FOR ALL LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO: FIRE ALARM.
16. CABLE TRAY SHALL BE INSTALLED 6" FROM THE WALL AND SHALL BE SUPPORTED WITH TRAPEEE HANGERS FROM THE CABLE TRAY MANUFACTURER OR APPROVED BY THE SEISMIC ENGINEER AT MANUFACTURER'S RECOMMENDED SPACING (BUT NO FARTHER THAN EVERY 5').
17. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL WATERFALL DEVICES EQUAL TO CHATSWORTH 3-67-67 AT EACH CABLE END POINT AND ON THE END OF UPPER TRAY WHERE TRAYS OF DIFFERENT ELEVATIONS MEET.
18. CABLE TRAY SHALL BE BONDED TO THE SERVICE ENTRANCE BONDING SYSTEM. BONDING JUMPER SHALL BE INSTALLED AROUND ALL DISCONTINUITIES IN THE TRAY.
19. COMMUNICATIONS OUTLETS SHALL HAVE 2 GANG BOX WITH SINGLE GANG TRIM RING, BLANK METAL PLATE , AND 1" EMPTY CONDUIT UNLESS OTHERWISE INDICATED. ROUTE OVERHEAD, MOUNT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS. BLANK COVERS SHALL BE INSTALLED BY ELC ON ALL OPEN BOXES PRIOR TO FINAL INSPECTION.
20. FOR PA CEILING MOUNTED SPEAKERS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE INDEPENDENT SUPPORT WIRE FROM STRUCTURE AND POSITIVELY ATTACH SPEAKERS TO CEILING GRID.
21. PA SYSTEM CEILING AND WALL SPEAKERS ARE FURNISHED BY OWNER. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL PA SPEAKER BACK BOXES (INCLUDING 3/4" FLEX TO THE CABLE TRAY) AND TILE SPREADERS. THESE SHALL BE COORDINATED WITH OWNER TO BE COMPATIBLE WITH THE SPEAKERS. ATTACHMENT OF SPEAKER (AND ALL OTHER SYSTEMS) FLEXIBLE CONDUIT TO CABLE TRAY SHALL UTILIZE CLIPS DESIGNED FOR THAT SPECIFIC PURPOSE MANUFACTURED BY THE CABLE TRAY MANUFACTURER. ELC SHALL CUT CEILING TILES AS NECESSARY.
22. FOR EXTERIOR WALL MOUNTED CAMERAS, THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SINGLE GANG BOXES FLUSH WITH FINAL EXTERIOR WALL WITH BLANK COVER PLATE, AND 3/4" EMPTY CONDUIT TO CABLE TRAY. ROUTE OVERHEAD.
23. ELECTRICAL CONTRACTOR SHALL INSTALL 96" PLYWOOD SHEETS TO COMPLETELY COVER INDICATED WALLS 20" OFF THE FLOOR IN EACH TR AND MTR. PLYWOOD SHALL BE 3/4" THICK, AC GRADE AND PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT ON ALL SIDES.
24. FOR CEILING MOUNTED CAMERAS, ELC SHALL F & I 4RA BOX WITH 3/4" KNOCKOUTS, DOUBLE GANG MUD RING, AND BLANK COVER PLATE. MOUNT BOX IN CENTER OF THE TILE FLUSH WITH BOTTOM OF THE CEILING TILE ON CADDY #512 TEE-BAR HANGER.
25. FOR EXTERIOR WALL MOUNTED PA SPEAKERS , THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 10" X 10" ATLAS BACK BOXES FLUSH WITH FINAL EXTERIOR WALL WITH BLANK COVER PLATE, AND 3/4" EMPTY CONDUIT TO CABLE TRAY. ROUTE OVERHEAD.

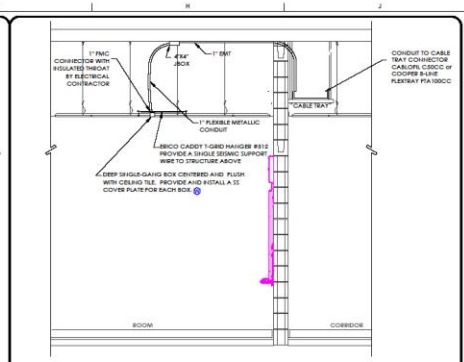
SECURITY SYSTEM NOTES:

1. SECURITY SYSTEM DEVICES AND WIRING ARE FURNISHED BY OTHERS. ELC SHALL F & I 120 VOLT POWER AND RACEWAY SYSTEM.
2. ROUTE CONDUIT CONCEALED EITHER OVERHEAD OR WITHIN WALLS. CONDUITS SHALL NOT BE ROUTED BELOW THE FIRST FLOOR SLAB UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.
3. SEE FLOOR PLANS FOR EXACT NUMBER AND LOCATIONS OF EQUIPMENT AND STATIONS.
4. SECURITY SYSTEM MAGNETIC DOOR CONTACTS SHALL HAVE 1/2" EMT CONDUIT FROM DOOR FRAME TO SEC OR CABLE TRAY (IF SHOW ON PLANS)
5. WALL MOUNTED SECURITY SYSTEM PASSIVE INFRARED DETECTORS SHALL HAVE SINGLE GANG BOX @ 10' AFF OR AT CEILING IF BELOW 12' AFF. FURNISH AND INSTALL 3/4" EMPTY EMT CONDUIT TO SEC OR CABLE TRAY (IF SHOWN ON PLANS)
6. SECURITY SYSTEM KEY ENTRY SWITCHES SHALL HAVE RECESSED SINGLE GANG BOX. (TOP OF BOX AT 48" AFF) WITH BLANK COVER PLATE AND 3/4" EMPTY EMT CONDUIT TO SEC OR CABLE TRAY (IF SHOWN ON PLANS)
7. SECURITY SYSTEM SIRENS HAVE RECESSED SINGLE GANG BOX. (MOUNTING HEIGHT BY ARCHITECT) WITH BLANK COVER PLATE AND 3/4" EMPTY EMT CONDUIT TO SEC OR CABLE TRAY (IF SHOWN ON PLANS)
8. CEILING MOUNTED SECURITY SYSTEM PASSIVE INFRARED DETECTORS SHALL HAVE, SINGLE-GANG BOX INSTALLED FLUSH IN CEILING TILE WITH S1 COVER PLATE AND 3/4" EMPTY FMC TO SEC (OR CABLE TRAY IF SHOWN ON PLANS). F &I ERICO CADDY T-GRID HANGER #512 AND PROVIDE A SINGLE SEISMIC SUPPORT WIRE TO STRUCTURE ABOVE
9. SECURITY SYSTEM INPUT & OUTPUT MONITOR MODULES SHALL HAVE 4RA BOX FOR MODULE WITH 3/4" CONDUIT TO SEC OR CABLE TRAY (IF SHOWN ON PLANS).



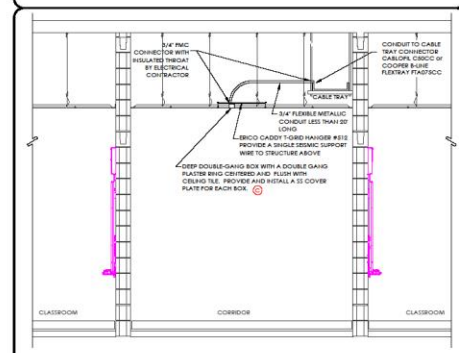
TYPICAL CORRIDOR CEILING MOUNTED WIRELESS ACCESS POINT

NO SCALE



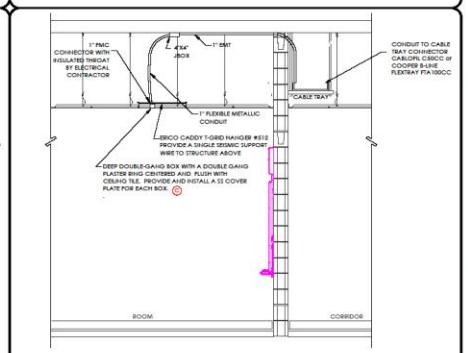
TYPICAL NON CORRIDOR CEILING MOUNTED WIRELESS ACCESS POINT

NO SCALE



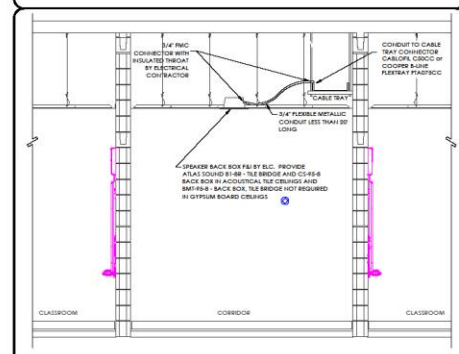
TYPICAL CORRIDOR CEILING MOUNTED CAMERA

NO SCALE



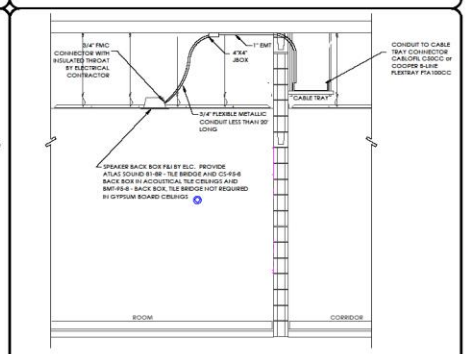
TYPICAL NON CORRIDOR CEILING MOUNTED CAMERA

NO SCALE



TYPICAL CORRIDOR CEILING MOUNTED PA SPEAKER

NO SCALE



TYPICAL NON CORRIDOR CEILING MOUNTED PA SPEAKER

NO SCALE

NOTE: THIS DETAIL DOES NOT APPLY TO ROOMS WITH LARGE ABOVE CEILING JUNCTION BOXES FOR I.T. CONDUIT CONSOLIDATION SUCH AS A CLASSROOM

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CORPORATE SEAL

07/30/20

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 16095.00
■ DATE: 07.30.20

CONSTRUCTION DOCUMENTS

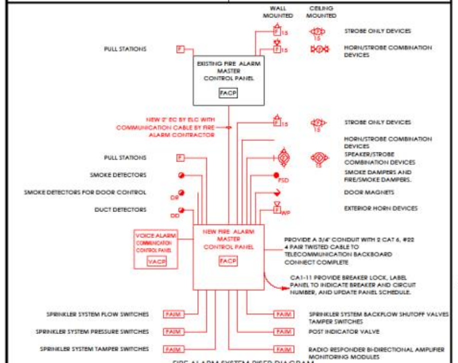
Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Low Voltage Schedules and Details

E6.03

FIRE ALARM INPUTS | FIRE ALARM OUTPUTS



FIRE ALARM SYSTEM RISER DIAGRAM

FIRE ALARM NOTES:

THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A REMOTE SUPERVISING STATION MONITORING SERVICE. FIRE ALARM CONTRACTOR SHALL POST NUMBER OF RUNNER SERVICE ADJACENT TO FACP

2. THE FIRE ALARM CONTROL PANEL SHALL BE FLUSH MOUNTED WITH COMMUNICATOR.
3. PROVIDE PROGRAM DISK TO OWNER AT COMPLETION OF PROJECT. COORDINATE PROGRAM LANGUAGE WITH OWNER.
4. SHOW MAPPINGS PRIOR TO FINAL APPROVAL
5. PROVIDE COMPLETE AS-BUILT DRAWINGS TO OWNER
6. ALL CONDUIT AND WIRE SHALL BE SIZED FOR THE LENGTH OF RUN AND NUMBER OF DEVICES CONNECTED.
7. THE PRELIMINARY MINIMUM CANDLE POWER OF VISUAL NOTIFICATION DEVICES S INDICATED SUB-NOTED NEXT TO EACH NOTIFICATION DEVICE. THE FIRE ALARM CONTRACTOR SHALL INCREASE THE CANDLE POWER OF ALL DEVICES IF NECESSARY TO COMPLY WITH THE REQUIREMENTS OF NFPA 72 WHEN INSTALLED IN THE LOCATIONS SHOWN ON PLANS. BATTERY CALCULATIONS SHALL ALLOW FOR ADJUSTMENT OF DEVICES.
8. ALL PULL STATIONS SHALL HAVE VANDAL PROOF COVERS WITH LOCAL ALARM NOTIFICATION.
9. CIRCUIT BREAKERS WHICH SUPPLY FIRE ALARM PANELS AND BOOSTER POWER SUPPLIES SHALL BE RED IN COLOR AND SHALL HAVE A HANDLE CLAMP TO HOLD THE BREAKER IN THE ON POSITION.
10. ALL CONDUITS SHALL BE CONCEALED IN NEW CONSTRUCTION.
11. IN PARTS OF THE EXISTING BUILDING WITH LAY IN CEILING TILES, CABLING SHALL BE CONCEALED IN EMT CONDUITS ABOVE CEILINGS WITH WIREMOLD 2000 SERIES METALLIC RACEWAY OR APPROVED EQUAL ROUTED AS SHORT AS POSSIBLE FROM ABOVE THE CEILING TO DEVICES INDICATED TO BE WALL MOUNTED BELOW THE CEILING.
12. IN PARTS OF THE EXISTING BUILDING WITHOUT LAY IN CEILING TILES, CABLING SHALL BE ROUTED IN SURFACE MOUNTED EMT CONDUIT, WIREMOLD 2000 SERIES METALLIC RACEWAY OR APPROVED EQUAL.
13. INSTALLATION OF THE NEW FIRE ALARM SYSTEM SHALL NOT INTERFERE WITH OPERATION OF THE EXISTING FIRE ALARM WHEN THE BUILDING IS OCCUPIED.
14. FIRE ALARM CONTRACTOR SHALL ADJUST EXACT LOCATION OF NEW DEVICES TO AVOID MILLWORK OR FURNISHINGS NOT SHOWN ON THESE PLANS. DEVICE LOCATIONS MUST CONFORM TO ALL REQUIREMENTS OF NFPA 72.
15. FIRE ALARM CONTRACTOR SHALL RECALCULATE BATTERY REQUIREMENTS OF THE EXISTING SYSTEM WITH THE NEW ADDITIONAL COMPONENTS AND SHALL ADJUST THE NUMBER OR SIZE OF THE BATTERIES IN THE EXISTING SYSTEM AS NECESSARY.
16. FIRE ALARM CONTRACTOR SHALL BE CONNECT NEW DEVICES IN THE EXISTING BUILDING TO THE EXISTING SYSTEM. HE SHALL EVALUATE THE CAPACITY OF THE EXISTING SYSTEM PRIOR TO SUBMITTING HIS BID AND SHALL INCLUDE ALL MATERIALS AND PROGRAMMING NECESSARY TO EXPAND THE SYSTEM TO ACCOMMODATE THE NEW DEVICES SHOWN ON THESE CONTRACT DOCUMENTS.
17. WHERE NEW VISUAL NOTIFICATION DEVICES ARE INSTALLED IN THE SAME FIELD OF VIEW WITH EXISTING DEVICES, THEY SHALL SYNCHRONIZE WITH THE EXISTING DEVICES. CHANGES TO EXISTING DEVICES TO ACHIEVE SYNCHRONIZATION ARE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.
18. FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT AND WIRE NECESSARY FOR MONITORING OF ALL POSITION SENSORS OR TAMPER SWITCHES ON THE POST INDICATING VALVE, BACKFLOW PREVENTION VALVES, AND ALL EXTERIOR ISOLATION VALVES ON THE INCOMING SPRINKLER WATER LINE. SEE CIVIL PLANS FOR NUMBER AND LOCATIONS. FIRE ALARM CONTRACTOR SHALL PROVIDE ADDRESSABLE MODULES AND MAKE FINAL CONNECTIONS.
19.
20. PROVIDE CONNECTION TO ALL SPRINKLER SYSTEM FLOW, PRESSURE AND VALVE TAMPER SWITCHES. REFER TO THE FIRE SPRINKLER DRAWINGS FOR NUMBER AND LOCATION OF DEVICES. ACTIVATION OF FLOW SWITCHES SHALL SOUND GENERAL ALARM. ACTIVATION OF TAMPER SWITCHES SHALL INITIATE SUPERVISORY SIGNAL.
21. FURNISH AND INSTALL EXTERIOR HORN POWERED FROM THE FIRE ALARM SYSTEM FOR SPRINKLER SYSTEM WATERFLOW ALARM BELL IN LOCATION SHOWN ON PLANS. PROGRAM TO SOUND DISTINCTIVE TONE ONLY WHEN SPRINKLER WATER FLOW SWITCH IS ACTIVATED
22. FIRE ALARM CONTRACTOR SHALL FURNISH ADDRESSABLE DUCT DETECTORS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. CONTROL WIRING BY MECHANICAL AND FIRE ALARM WIRING SHALL BE BY ELECTRICAL CONTRACTOR. DUCT DETECTORS SHALL BE POWERED FROM THE FIRE ALARM SYSTEM AND RESETTABLE FROM THE CONTROL PANEL. ACTIVATION OF DUCT DETECTOR SHALL SHUT DOWN UNIT AND NOTIFY SUPERVISORY SYSTEM. DETECTOR WILL NOT SOUND GENERAL ALARM. SOME UNITS MAY REQUIRE MULTIPLE DETECTORS, REFER TO MECHANICAL DRAWINGS TO DETERMINE THE NUMBER AND LOCATION OF REQUIRED DETECTORS.
23. WHERE MULTIPLE AIR HANDLING UNITS ARE SERVING THE SAME SPACE, THE FIRE ALARM SHALL BE PROGRAMMED SO THAT SMOKE DETECTION BY ANY DUCT DETECTOR SHALL CAUSE ALL UNITS IN THE SAME SPACE TO SHUTDOWN.
24. FIRE ALARM CONTRACTOR SHALL F&I ADDRESSABLE MODULES FOR CONNECTION TO EACH FIRE/SMOKE DAMPER & PROGRAM AS DUCT DETECTORS. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER TO EACH OF THESE DAMPERS FROM THE INDICATED CIRCUIT. COORDINATE LOCATION OF DAMPERS WITH THE MECHANICAL CONTRACTOR.
25. FURNISH AND INSTALL A REMOTE TEST STATION WITH KEYSWITCH AND RED LED STATUS INDICATOR FOR EACH DUCT DETECTOR. TEST STATION SHALL BE MOUNTED BELOW THE DUCT DETECTOR AND MAY BE MOUNTED FACE DOWN IN THE CEILING TILE WHERE CEILING HEIGHT IS 12' AFF OR LESS. FOR CEILING HEIGHTS GREATER THAN 12' AFF, TEST STATION SHALL BE WALL MOUNTED AT 48" AFF.
26.
27. MAGNETIC DOOR HOLDERS SHALL BE FURNISHED AND INSTALLED BY THE FIRE ALARM CONTRACTOR. CONTRACTOR SHALL COORDINATE ROUGH IN LOCATION WITH HARDWARE SUPPLIER TO ENSURE OPTIMUM MAGNETIC ALIGNMENT.
28. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SMOKE DETECTORS AT ALL PANELS WHICH PROVIDE POWER TO OR CONTROL THE FUNCTION OF FIRE ALARM SYSTEM COMPONENTS.
29. FIRE ALARM CONTRACTOR SHALL INSTALL WALL MOUNTED SMOKE DETECTORS OVER FIRE DOORS WHEN CEILING CONDITIONS PREVENT USE OF CEILING MOUNTED DETECTORS.
30. NOTIFICATION APPLIANCE DESIGN CRITERIA:
    THE MINIMUM ALERT TONE AUDIBILITY LEVEL SHALL BE AT LEAST 15 dBA GREATER THAN THE AMBIENT LEVEL WITH A MAXIMUM OF 110 dBA. ALERT TONE AMBIENT SOUND PER NFPA 72 LEVELS ARE:

MECHANICAL ROOMS:	85 dBA
ASSEMBLY SPACES:	55 dBA
BAND, CHORUS, ORCHESTRA ROOMS	110 dBA
ALL OTHER SPACES:	45 dBA

31. ALERT TONE AUDIBLE NOTIFICATION SHALL BE PROVIDED IN ALL OCCUPIABLE SPACES EXCLUDING CLOSETS.
32. VOICE INTELLIGIBILITY OF VOICE EVAC SYSTEMS SHALL BE REQUIRED IN NORMALLY OCCUPIED SPACES. PRIVATE BATHROOMS, MECHANICAL AND ELECTRICAL ROOMS, ELEVATOR CARS, STORAGE ROOMS, CLOSETS, ATTICS, JANITOR'S CLOSETS, AND STAIR WELLS ARE NOT INTENDED TO HAVE VOICE INTELLIGIBILITY IN ACCORDANCE WITH NFPA 72.
33. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR AND MATERIALS NECESSARY TO INSTALL 5 ADDITIONAL CEILING MOUNTED SPEAKER STROBES AT LOCATIONS TO BE DETERMINED ON SITE. UNUSED DEVICES SHALL BE OFFERED TO OWNER FOR USE AS SPARES.
34. VOICE ALARM EVACUATION MESSAGES SHALL NOT CONTAIN THE WORD FIRE. IN SINGLE STORY BUILDINGS MESSAGES SHALL NOT REFER TO ELEVATORS NOR STAIRS.
35. NEW FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING FIRE ALARM SYSTEM. ACTIVATION OF ONE SYSTEM SHALL INITIATE ACTIVATION OF THE OTHER SYSTEM. EACH SYSTEM SHALL HAVE ITS OWN DACT / IPDACT AND SHALL COMMUNICATE ADDRESS OF DEVICES IN ALARM TO THE OTHER SYSTEM.

FIRE ALARM SEQUENCE OF OPERATION

SYSTEM OUTPUTS — CONTROL UNIT ANNUNCIATION | NOTIFICATION | FIRE SAFETY CONTROL

SYSTEM INPUTS	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR					ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	PLAY PRERECORDED EVACUATION MESSAGE	DISPLAY / PRINT / LOG CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPV. SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RELEASE MAGNETICALLY HELD DOORS	FAN SHUT DOWN	CLOSE SMOKE & FIRE / SMOKE DAMPERS	SPRINKLER SYSTEM WATERFLOW [illegible]				
SMOKE DETECTOR	X	X					X					X	X	X	X	X			X							
MANUAL PULL STATION	X	X					X					X	X	X	X	X			X							
HEAT SENSOR	X	X					X					X	X	X	X	X			X							
WATER FLOW / PRESSURE SWITCH	X	X					X					X	X	X	X	X			X			X				
DUCT SMOKE DETECTOR			X	X			X								X		X			X	X					
TAMPER SWITCH			X	X			X								X		X									
POST INDICATOR VALVE SWITCH			X	X			X								X		X									
SPRINKLER SYS. BACKFLOW TAMPER			X	X			X								X		X									
AC POWER FAILURE					X	X									X			X	X							
LOW BATTERY					X	X									X			X								
OPEN CIRCUIT OR GROUND FAULT					X	X									X			X								
NOTIFICATION CIRCUIT SHORT					X	X									X			X								

FIRE WALL CONDUIT PENETRATION SCHEDULE

WALL / FLOOR ASSEMBLY DESCRIPTION	APPROVED U.L. PENETRATION SYSTEMS
WOOD OR STEEL STUD WALLS 1HR, 2HR, 3HR, OR 4HR	XHEZ-W-L-1001
CONCRETE OR BLOCK WALLS OR FLOORS 1 HR	XHEZ-C-AJ-1175
CONCRETE OR BLOCK WALLS OR FLOORS 2HR, 3HR, OR 4 HR	XHEZ-C-AJ-1044

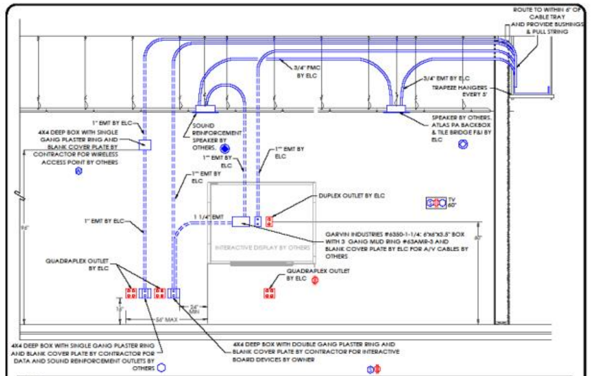
NOTES:
THE WALL OR FLOOR ASSEMBLY DESCRIPTION OF THE U.L. PENETRATION SYSTEM BEING INSTALLED MUST MATCH THE ACTUAL FIELD CONDITIONS.

THESE APPROVED SYSTEMS ARE NOT INTENDED TO ACCOUNT FOR ALL POSSIBLE FIELD CONDITIONS. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OTHER PROPOSED SYSTEMS NECESSARY TO ACCOMMODATE ACTUAL CONDITIONS.

CABLE TRAY FIRE WALL PENETRATIONS SHALL BE AS PER THE NOTES AND DETAILS ON THE TELECOMMUNICATION RISER DIAGRAM.

GENERAL ELECTRICAL NOTES:

1. DUE TO THE NATURE OF WORK COVERED UNDER THESE PLANS AND SPECIFICATIONS, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
2. ALL CONDUIT PENETRATIONS OF FIRE RATED WALLS AND/OR CEILINGS SHALL BE FIRESTOPPED AS PER UL STANDARDS.
3. ALL CONDUIT PENETRATIONS OF EXTERIOR WALLS, FLOORS, OR ROOFS SHALL BE SEALED AND MADE WEATHERPROOF.
4. ALL CONDUIT RUNS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LENGTH AND LOCATION.
5. ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS, FOR ALL BID ALTERNATES AND ALL PHASING INFORMATION, PRIOR TO SUBMITTING HIS BID.
6. ALL BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
7. THE MECHANICAL EQUIPMENT BASIS OF DESIGN IS AS INDICATED ON THE MECHANICAL DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF THE MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIALS. MODIFICATIONS TO ANY ELECTRICAL SYSTEM REQUIRED FOR MECHANICAL EQUIPMENT WHICH DIFFERS FROM THE MECHANICAL BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE MECHANICAL AND ELECTRICAL CONTRACTORS. IN NO CASE SHALL SUBSTITUTION OF MECHANICAL EQUIPMENT RESULT IN ADDITIONAL COSTS TO THE OWNER.
8. ALL RECESSED ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIRE WALL SHALL BE HORIZONTALLY SPACED AT LEAST 24 INCHES FROM EACH OTHER REGARDLESS OF THE VERTICAL SEPARATION BETWEEN THE BOXES.
9. AT THE DIRECTION OF THE UTILITY CO. AND UPON COMPLETION OF THE PROJECT, ELECTRICAL CONTRACTOR SHALL ADJUST PHASING OF SUBPANELS AS NECESSARY TO BALANCE ELECTRICAL LOAD.
10. WHERE POWER AND TELECOM DEVICES ARE SHOWN ADJACENT TO ONE ANOTHER, THE ELECTRICAL CONTRACTOR SHALL INSTALL THE DEVICES WITHIN 6" OF EACH OTHER. ADJACENT DEVICES MAY BE SHOWN ON DIFFERENT SHEETS.
11. ALL WORK SHALL BE IN COMPLIANCE WITH THE CODES AND STANDARDS LISTED IN THE ARCHITECTURAL CODE ANALYSIS FOUND ELSEWHERE IN THESE CONTRACT DOCUMENTS.
12. ALL ELECTRICAL DEVICES SHOWN MOUNTED TO STOREFRONT / CURTAIN WALL SHALL BE INSTALLED IN / ON SQUARE ALUMINUM SURFACE RACEWAY SIMILAR TO WIREMOLD AL3300. RACEWAY SHALL BE MOUNTED TO MULLIONS, SHALL BE CONTINUOUS FROM WALL TO WALL OR WALL TO CEILING, SHALL CONCEAL CONDUCTORS OR CABLES, AND SHALL BE PAINTED TO MATCH THE MULLION. SELECT RACEWAY TO MATCH MULLION SIZE AS CLOSELY AS POSSIBLE.



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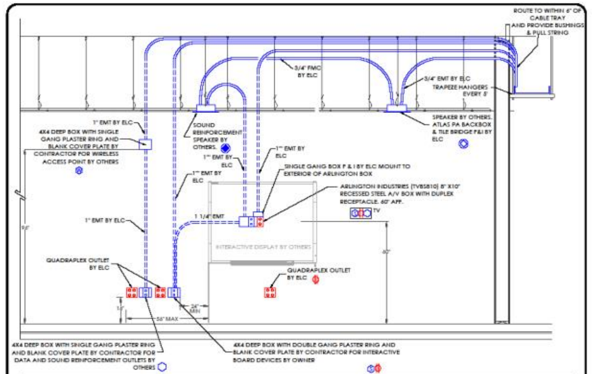
2. CONDUIT PATHWAYS SHALL BE CONTINUOUS FROM INDICATED BOXES TO CABLETRAY AND SHALL CONTAIN NO MORE THAN TWO 90 DEGREE BENDS. PATHWAYS LESS THAN 100' SHALL NOT CONTAIN JUNCTION OR PULL BOXES. PATHWAYS GREATER THAN 100' SHALL HAVE PULL BOXES EVERY 100'. INSTALLED PULL BOXES SHALL NOT CHANGE THE DIRECTION OF THE CONDUIT.
3. HORIZONTAL POSITION OF OUTLETS ALONG WALL IS DETERMINED BY MODULAR CASEWORK LOCATION AND/OR SMARTBOARD CENTERLINE. LOCATION MUST BE ESTABLISHED INDIVIDUALLY FOR EACH ROOM LAYOUT.
4. CEILING MOUNTED SPEAKERS SHALL BE PROVIDED IN ROOMS WITH CEILINGS AT OR BELOW 12'. WALL MOUNTED SPEAKERS SHALL BE PROVIDED IN ROOMS WITH CEILINGS ABOVE 12'
5. REFER TO FLOOR PLANS FOR LOCATIONS OF POWER AND DATA OUTLETS AT 18" AFF. THESE MAY BE TO THE LEFT OR RIGHT OF THE INTERACTIVE BOARD DEPENDING ON ROOM CONFIGURATION.

TYPICAL INTERACTIVE BOARD I.T. ELEVATION - MASONRY WALL

NO SCALE



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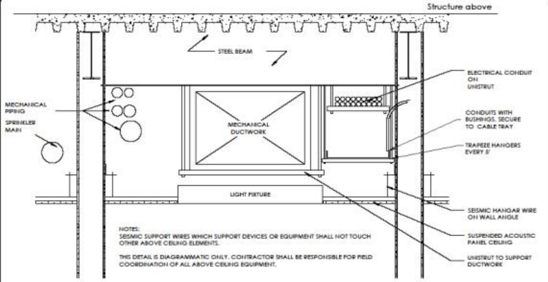
TYPICAL INTERACTIVE BOARD I.T. ELEVATION - GYPSUM BOARD WALLS

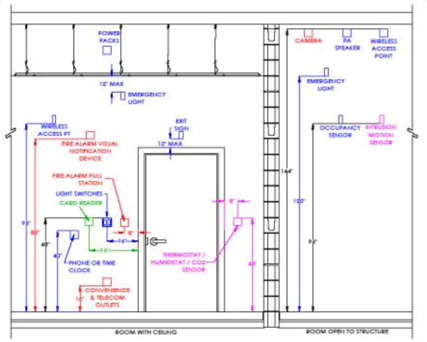
NO SCALE



NOTES:
SEISMIC SUPPORT WIRES WHICH SUPPORT DEVICES OR EQUIPMENT SHALL NOT TOUCH OTHER ABOVE CEILING ELEMENTS.

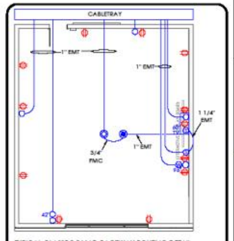
THIS DETAIL IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATION OF ALL ABOVE CEILING EQUIPMENT.

TYPICAL CORRIDOR CROSS SECTION DETAIL



TYPICAL ELECTRICAL BOX MOUNTING ELEVATION

NO SCALE



TYPICAL CLASSROOM I.T. RACEWAY ROUTING DETAIL

NO SCALE

NOTE: THIS DETAIL DOES NOT APPLY TO COMPUTER LABS

CRITICAL SYSTEMS ENGINEERING
845 Lowcountry Blvd. Suite H
Mount Pleasant, SC.
29464

S&W
ARCHITECTURE ENGINEERING INTERIORS
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1501 MAIN STREET, SUITE 730
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P 803.765.0320 F 803.254.6209
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NORTH CHARLESTON, SOUTH CAROLINA 29405

BROWNSTONE
BROWNSTONE GROUP
4055 FABER PLACE DRIVE, SUITE 202
NORTH CHARLESTON, SOUTH CAROLINA 29405

CORPORATE SEAL

ARCHITECT/ENGINEER SEAL

■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)

NO.	DATE	DESCRIPTION

■ APPROVED FOR CONSTRUCTION
□ NOT APPROVED FOR CONSTRUCTION

■ PROJECT NUMBER: 19085.00
■ DATE: 07.30.20

CONSTRUCTION DOCUMENTS

Charleston County SCHOOL DISTRICT

HAUT GAP MIDDLE SCHOOL ADDITIONS & RENOVATIONS

Miscellaneous Schedules and Details

E6.04

Agenda Item #2

2280 HENRY TECKLENBURG DR.
TMS # 309-00-00-467

Request conceptual approval for the construction of a new one-story Dialysis center.

AUGUST 14, 2020

DIALYSIS CLINIC INCORPORATED

WEST ASHLEY FACILITY

HENRY TECKLENBURG DRIVE CHARLESTON, SOUTH CAROLINA

ARCHITECT / ENGINEER CONTACTS

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CONTACT: DAN BORSOS

CIVIL ENGINEER
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CONTACT: HERBERT W GILLIAM

OWNER
DIALYSIS CLINIC INCORPORATED
1633 CHURCH STREET
NASHVILLE, TENNESSEE 37203
PHONE: (615) 327-0361
CONTACT: PAUL PASSMAN

LIST OF DRAWINGS

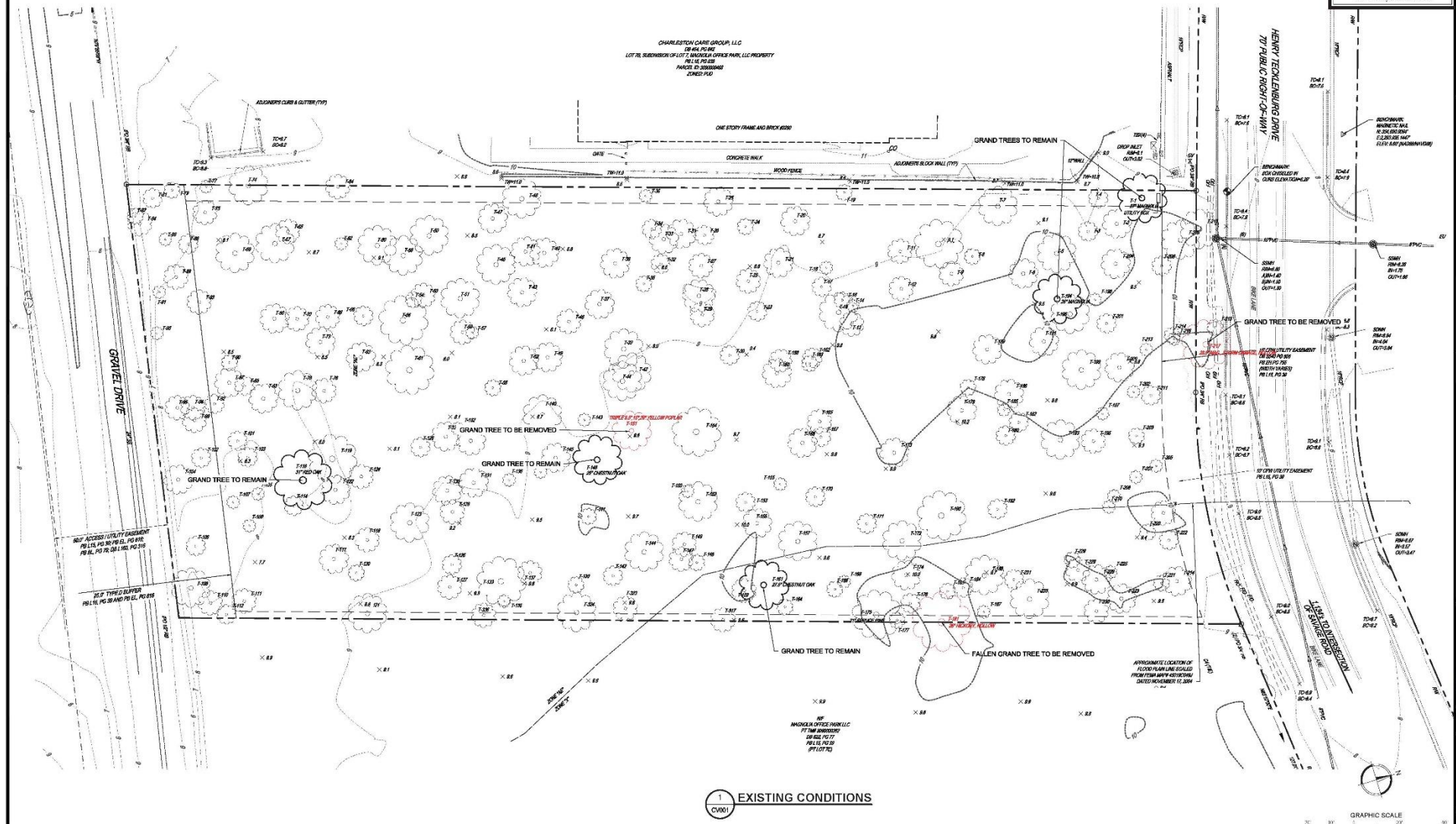
ARCHITECTURAL & CIVIL

RANDALL DOVER
ARCHITECT
4121 HILLSBORO ROAD • SUITE 303 • NASHVILLE, TN 37215 • (615) 251-3388

DIALYSIS CLINIC INCORPORATED
WEST ASHLEY FACILITY
RDA PROJECT NO. 19019
DRB PRELIMINARY REVIEW

NOTES:

NOTES:
1. SURVEYOR LOCATED ALL FEATURES AND UTILITIES THAT WERE OBVIOUS AND APPARENT. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM THIS PLAN.



1 CV001 **EXISTING CONDITIONS**

JOHNSON, LASCHOBER & ASSOCIATES, PC COD790 CERTIFICATE OF AUTHORIZATION

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Date / Issue
AUGUST 12, 2020
DESIGN REVIEW

W. ASHLEY FACILITY
(2280) HENRY TECKLENBURG DR
CHARLESTON, SOUTH CAROLINA 29414

RANDALL DOVER ARCHITECT

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 11649 ROBERT WALTER DOVER

JLA Project Number
1042.2001

Sheet Title
EXISTING CONDITIONS

Sheet Number
CV001

NOTES:

TOTAL TREES WITHIN PROPERTY BOUNDARY: 216
TOTAL GRAND TREES WITHIN PROPERTY BOUNDARY: 8
TOTAL TREES REMOVED: 175
TOTAL GRAND TREES REMOVED: 1
TOTAL TREES SAVED: 41
TOTAL GRAND TREES SAVED: 7

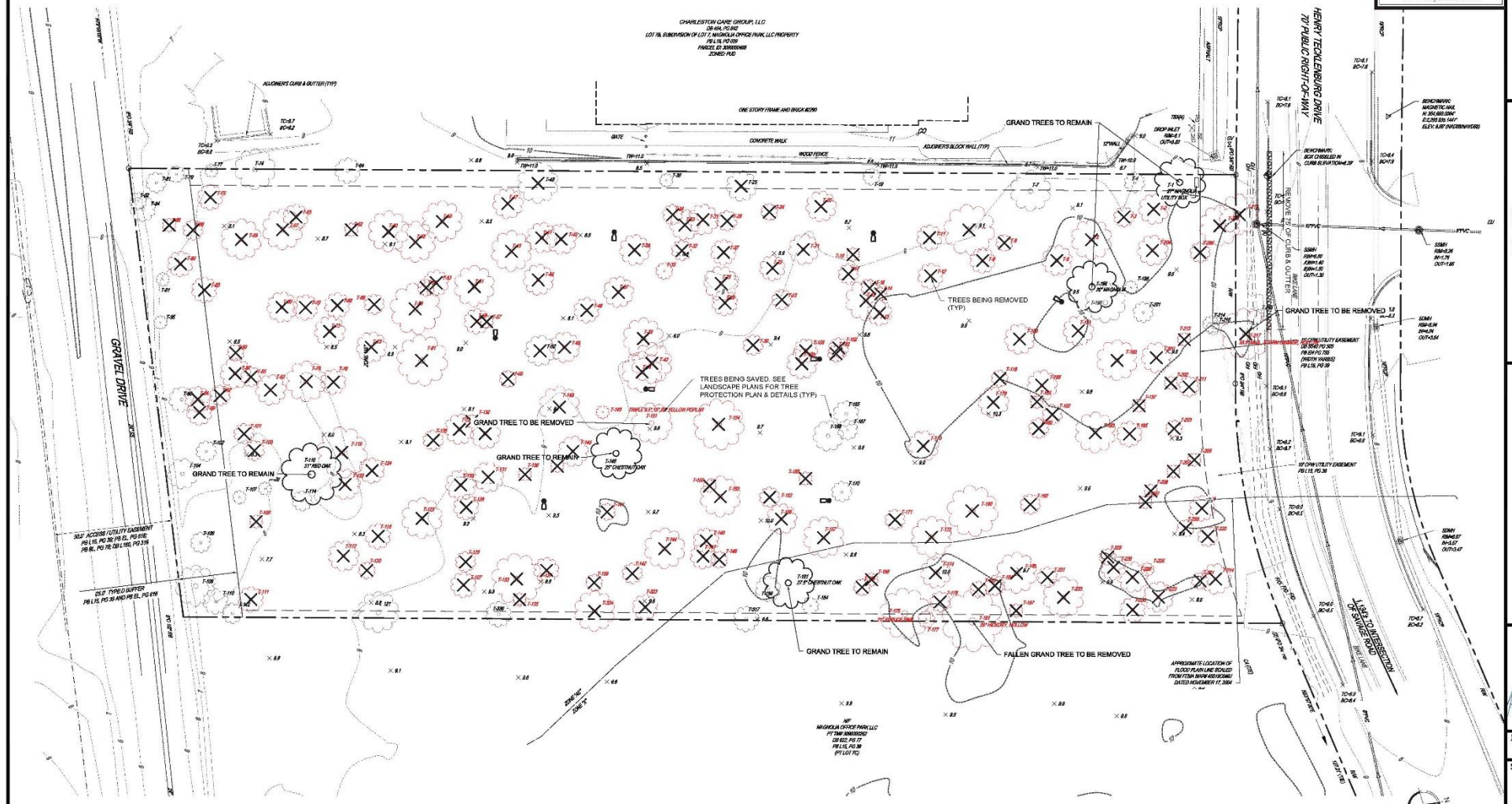
= GRAND TREE TO REMAIN

= TREE TO REMAIN

= TREE TO BE REMOVED

DEMOLITION NOTES:

1. ALL TREES TO BE REMOVED ARE SHOWN IN RED
2. CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO DEMOLITION & CONSTRUCTION WORK.
3. ALL DEMOLISHED ITEMS TO BE REMOVED FROM SITE & DISPOSED OF IN LEGAL MANNER OR UPON OWNER'S DISCRETION.



1 CD001 DEMOLITION PLAN

GRAPHIC SCALE
SCALE: 1" = 20'

JOHNSON, LASCHOBER & ASSOCIATES, PC
CD0750
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA

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Date / Issue
AUGUST 12, 2020
DESIGN REVIEW

W. ASHLEY FACILITY
(2280) HENRY TECKLENBURG DR
CHARLESTON, SOUTH CAROLINA 29414

RANDALL DOVER ARCHITECT

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 11676
ROBERT WALTER DOVER

JLA Project Number
1042.2001

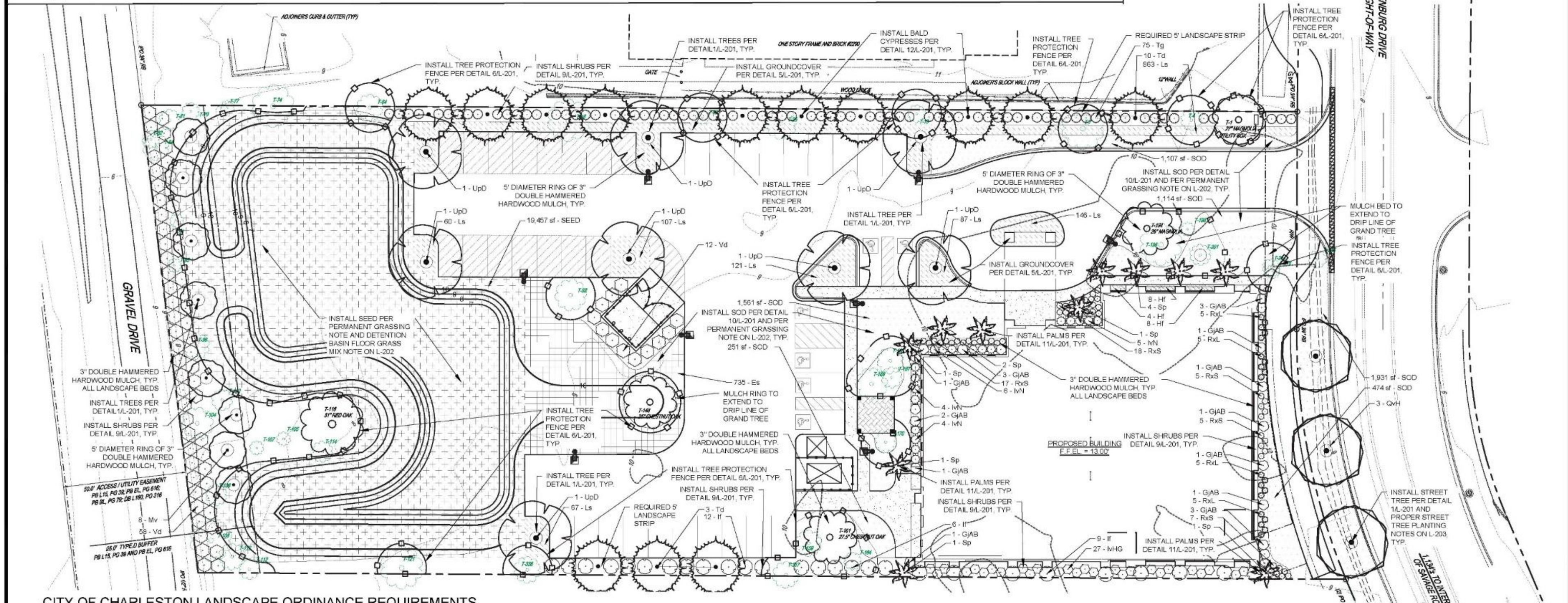
Sheet Title
DEMOLITION PLAN

Sheet Number
CD001

PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Mv	Magnolia virginiana	Sweet Bay	6-8`	B&B	8	
	QvH	Quercus virginiana `QVTIA`	Highrise Live Oak	3" Cal.	B&B	3	
	Sp	Sabal palmetto	Cabbage Palm	12` Ht.	B&B	11	
	Td	Taxodium distichum	Bald Cypress	3" Cal.	B&B	13	
	UpD	Ulmus parvifolia `Drake`	Drake Chinese Elm	3" Cal.	B&B	8	
SHRUBS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**	**QTY**	**REMARKS**
	GjAB	Gardenia jasminoides `August Beauty`	Gardenia	7 gal.	Pot	19	
	IvN	Ilex vomitoria `Nana`	Dwarf Yaupon Holly	3 gal.	Pot	19	
	If	Illicium floridanum	Florida Anise	3 gal.	Pot	27	
	IvHG	Itea virginica `Henry`s Garnet`	Henry`s Garnet Sweetspire	3 gal.	Pot	27	
	RxL	Rosa x `Meisentmil`	Lemon Drift Rose	3 gal.	Pot	20	2.5` OC
	RxS	Rosa x `Meiswetdom` TM	Sweet Drift Groundcover Rose	3 gal.	Pot	52	2.5` OC
	Tg	Ternstroemia gymnanthera	Japanese Ternstroemia	7 gal.	Pot	75	
	Vd	Viburnum dentatum	Viburnum	3 gal.	Pot	70	
GROUND COVERS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**	**QTY**	**REMARKS**
	SEED	Cynodon dactylon x transvaalensis	Hybrid Bermudagrass	—		19,457 sf	
	SOD	Cynodon dactylon x transvaalensis	Hybrid Bermudagrass	—		6,437 sf	
	Es	Eragrostis spectabilis	Purple Love Grass	1 gal.	Pot	735	2` OC
	Hf	Hemerocallis fulva	Orange Daylily	1 gal.	Pot	20	2` OC
	Ls	Liriope spicata	Creeping Lily Turf	flat	Plug	1,451	18" OC

CONTRACTOR RESPONSIBLE FOR THEIR OWN QUANTITY TAKE-OFFS



CITY OF CHARLESTON LANDSCAPE ORDINANCE REQUIREMENTS

SEC. 54-343: PERIMETER LANDSCAPING REQUIREMENTS

- SURFACE PARKING LOTS OR OTHER VEHICULAR USE AREAS SHALL INCLUDE LANDSCAPING WHERE SUCH AREAS ABUT A PUBLIC RIGHT OF WAY OR NEIGHBORING PARCEL
- BUFFER SHALL BE AT LEAST 5' IN DEPTH
- REQUIRED PER 25 LF: 1 RECOMMENDED TREE, 3' EVERGREEN HEDGE OR DURABLE LANDSCAPE MATERIAL
- PORTIONS NOT COVERED BY TREES OR SHRUBS SHOULD HAVE GROUNDCOVER

WESTERN PROPERTY BOUNDARY:	EASTERN PROPERTY BOUNDARY:
372 LINEAR FEET OF PARKING LOT AND VEHICULAR USE AREA	110 LINEAR FEET OF PARKING LOT AND VEHICULAR USE AREA
15 RECOMMENDED TREES REQUIRED	5 RECOMMENDED TREES REQUIRED
5 EXISTING TREES LIE IN THE 5' BUFFER	2 EXISTING TREES LIE IN THE 5' BUFFER
10 ADDITIONAL TREES ARE PROVIDED	3 ADDITIONAL TREES ARE PROVIDED
15 TOTAL TREES ARE PRESENT	5 TOTAL TREES ARE PRESENT

SEC. 54-343: INTERIOR LANDSCAPE FOR PARKING LOTS

- LANDSCAPE ISLANDS TO HAVE A MINIMUM AREA OF 18' X 9'
- 1 RECOMMENDED TREE/ LANDSCAPE ISLAND
- 1 LANDSCAPE ISLAND / 5 PARKING SPACES
- EACH ROW SHALL TERMINATE WITH A LANDSCAPE ISLAND
- NO MORE THAN 12 CONTINUOUS SPACES WITHOUT AN ISLAND

41 PARKING SPACES = 9 LANDSCAPE ISLANDS REQUIRED
9 LANDSCAPE ISLANDS ARE PROVIDED

SEC. 54-347: LANDSCAPE BUFFER REQUIREMENTS

BUFFER TYPE D IS REQUIRED AT THE SOUTH BOUNDARY OF THE PROPERTY
BUFFER TYPE D REQUIRES A 25' DEPTH WITH 3 RECOMMENDED TREES, 4 UNDERSTORY TREES, AND 30 BUFFER SHRUBS PER 100'

THE SOUTHERN PROPERTY BOUNDARY IS 191'

REQUIRED LANDSCAPE ELEMENTS: 6 RECOMMENDED TREES, 8 UNDERSTORY TREES, AND 58 SHRUBS

13 EXISTING TREES WITHIN THE 25' BUFFER WILL REMAIN

ADDITIONAL PROVIDED LANDSCAPE ELEMENTS:
8 UNDERSTORY TREES, 58 SHRUBS

1 / L-101 **LANDSCAPE PLAN**

SOUTH CAROLINA JOHNSON, LASCHOBER & ASSOCIATES, PC C00790 CERTIFICATE OF AUTHORIZATION

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AUGUST 12, 2020
DESIGN REVIEW

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 11649 HERBERT WALTER GILLIAM

JLA Project Number
1042.2001

Sheet Title
LANDSCAPE PLAN

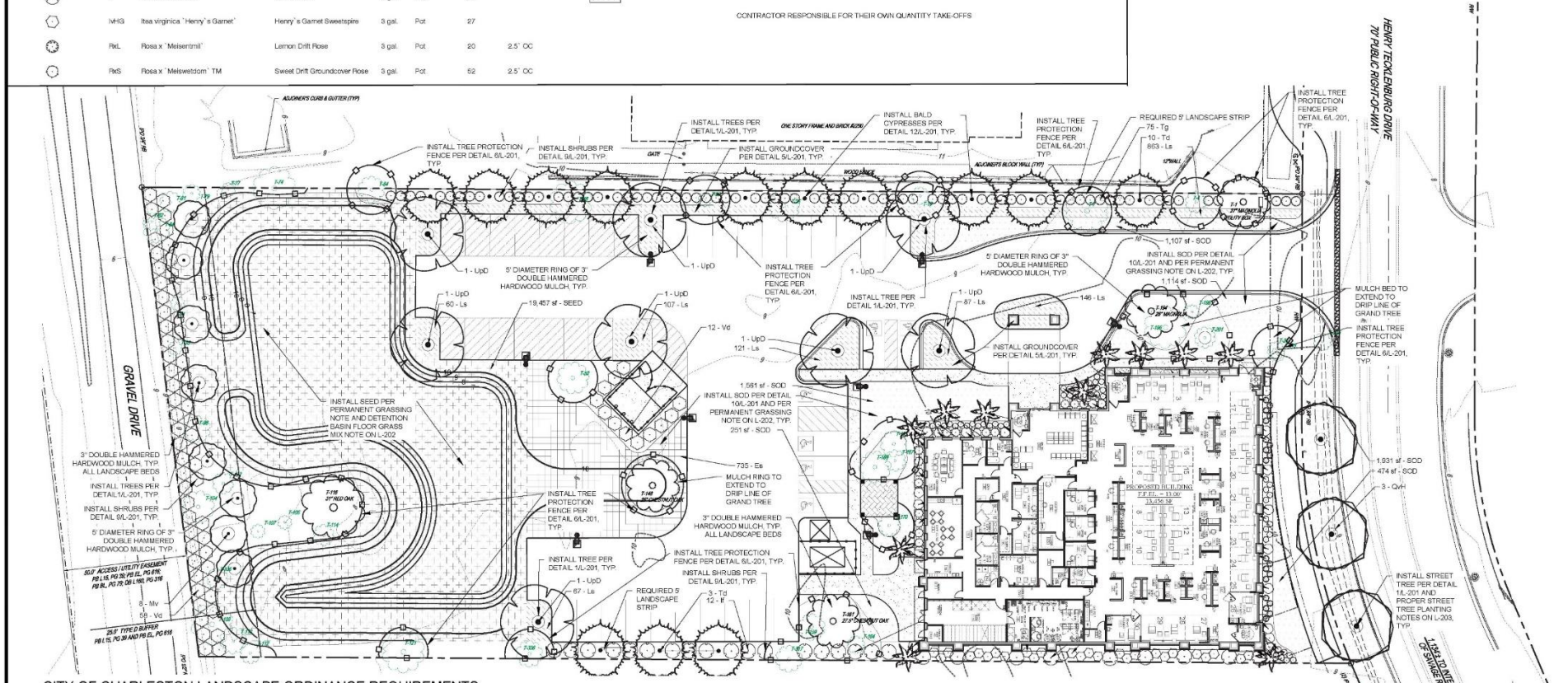
Sheet Number
L-101

PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Mv	Magnolia virginiana	Sweet Bay	6-8`	B&B	8	
	QvH	Quercus virginiana `QVTIA`	Highrise Live Oak	3" Cal.	B&B	3	
	Sp	Sabal palmetto	Cabbage Palm	12` Ht.	B&B	11	
	Td	Taxodium distichum	Bald Cypress	3" Cal.	B&B	13	
	UpD	Ulmus parvifolia `Drake`	Drake Chinese Elm	3" Cal.	B&B	8	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	GjAB	Gardenia jasminoides `August Beauty`	Gardenia	7 gal.	Pot	19	
	IVN	Ilex vomitoria `Nana`	Dwarf Yaupon Holly	3 gal.	Pot	19	
	If	Illicium floridanum	Florida Anise	3 gal.	Pot	27	
	IvHG	Itea virginica `Henry`s Garnet`	Henry`s Garnet Sweetspire	3 gal.	Pot	27	
	RxL	Rosa x `Meisentmil`	Lemon Drift Rose	3 gal.	Pot	20	2.5` OC
	RxS	Rosa x `Meiswetdom` TM	Sweet Drift Groundcover Rose	3 gal.	Pot	52	2.5` OC
	Tg	Ternstroemia gymnanthera	Japanese Ternstroemia	7 gal.	Pot	75	
	Vd	Viburnum dentatum	Viburnum	3 gal.	Pot	70	

GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	SEED	Cynodon dactylon x transvaalensis	Hybrid Bermudagrass	---		19,457 sf	
	SOD	Cynodon dactylon x transvaalensis	Hybrid Bermudagrass	---		6,437 sf	
	Es	Eragrostis spectabilis	Purple Love Grass	1 gal.	Pot	735	2` OC
	Hf	Hemerocallis fulva	Orange Daylily	1 gal.	Pot	20	2` OC
	Ls	Liriope spicata	Creeping Lily Turf	flat	Plug	1,451	18" OC

CONTRACTOR RESPONSIBLE FOR THEIR OWN QUANTITY TAKE-OFFS



CITY OF CHARLESTON LANDSCAPE ORDINANCE REQUIREMENTS

SEC. 54-343: PERIMETER LANDSCAPING REQUIREMENTS

- SURFACE PARKING LOTS OR OTHER VEHICULAR USE AREAS SHALL INCLUDE LANDSCAPING WHERE SUCH AREAS ABUT A PUBLIC RIGHT OF WAY OR NEIGHBORING PARCEL
- BUFFER SHALL BE AT LEAST 5' IN DEPTH
- REQUIRED PER 25 LF: 1 RECOMMENDED TREE, 3' EVERGREEN HEDGE OR DURABLE LANDSCAPE MATERIAL
- PORTIONS NOT COVERED BY TREES OR SHRUBS SHOULD HAVE GROUNDCOVER

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1 L-101 **LANDSCAPE PLAN**

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23649 ROBERT WALTER GILLIS

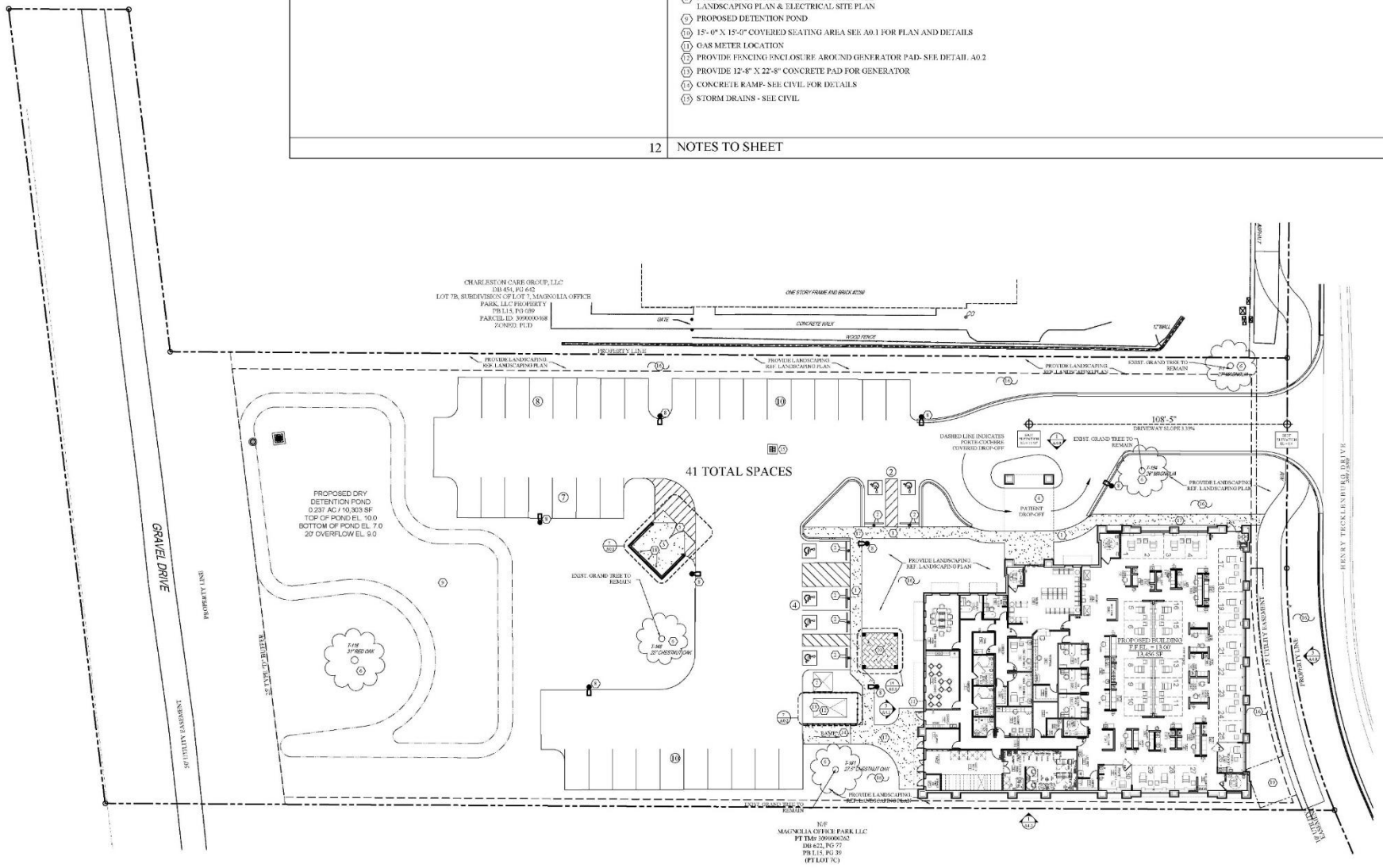
JLA Project Number
1042.2001

Sheet Title
LANDSCAPE PLAN

Sheet Number
L-102

1. SIDEWALK FLUSH W/ PARKING @ HANDICAP SPACES & DROP-OFF. SEE CIVIL.
2. HANDICAPPED PARKING SPACE, SIGN AND BOLLARD, & WHEEL STOP
3. PROVIDE DUMPSTER ENCLOSURE. SEE A0.1 FOR PLAN AND DETAILS
4. DRIVE UNDER PORTE COCHERE TO RAMP UP TO SIDEWALK
5. PROVIDE 8" THICK CONCRETE APRON AT DUMPSTER PAD
6. GRAND TREE TO REMAIN- SEE CIVIL
7. PROVIDE 8'-0" X 8'-0" CONCRETE TRANSFORMER PAD
8. POLE LIGHT LOCATED WHERE INDICATED. SEE LANDSCAPING PLAN & ELECTRICAL SITE PLAN
9. PROPOSED DETENTION POND
10. 15'- 0" X 15'-0" COVERED SEATING AREA SEE A0.1 FOR PLAN AND DETAILS
11. GAS METER LOCATION
12. PROVIDE FENCING ENCLOSURE AROUND GENERATOR PAD- SEE DETAIL A0.2
13. PROVIDE 12'-8" X 22'-8" CONCRETE PAD FOR GENERATOR
14. CONCRETE RAMP- SEE CIVIL FOR DETAILS
15. STORM DRAINS - SEE CIVIL
16. LANDSCAPED AREA - SEE LANDSCAPING PLANS
17. BRUSHED CONCRETE ON SIDEWALKS
18. PROVIDE CONCRETE BOLLARDS AT BACK OF DUMPSTER SEE DETAIL 1/A0.1
19. SEE CIVIL FOR SEWER AND WATER EASEMENT
20. PROVIDE PARKING LOT STRIPING AS SHOWN

12 NOTES TO SHEET 4



SITE PLAN SCALE: 1" = 20'-0" 1

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Project Number
19019.0

Sheet Title
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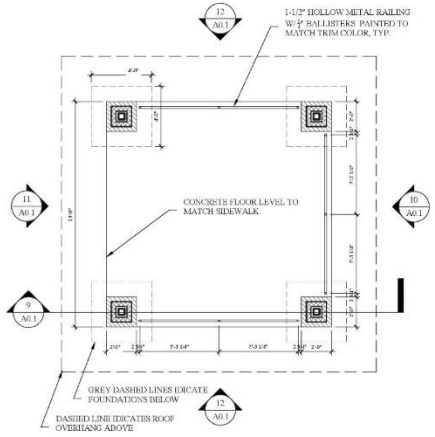
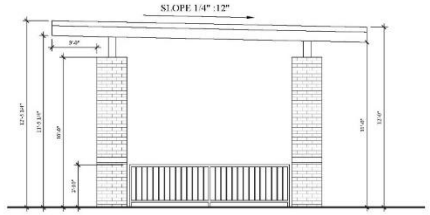
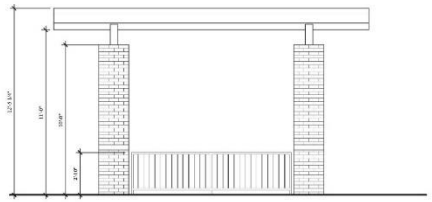
Sheet Number
A0.0



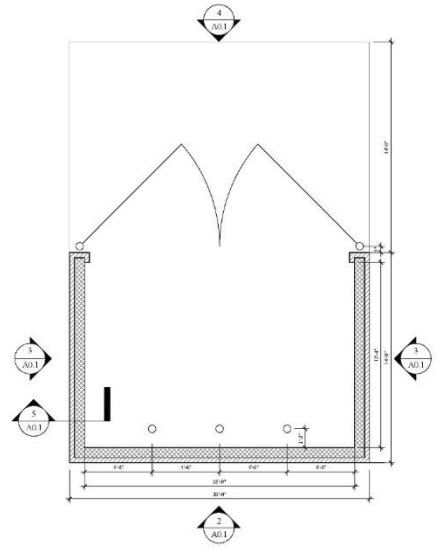
PAVILION PLAN DETAIL SCALE: 1/4" = 1'-0" 15



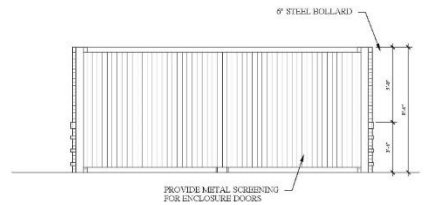
EAST/WEST PAVILION ELEVATION SCALE: 1/4" = 1'-0" 12



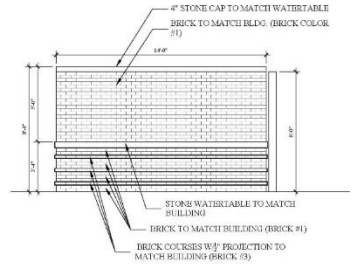
SOUTH PAVILION ELEVATION SCALE: 1/4" = 1'-0" 11



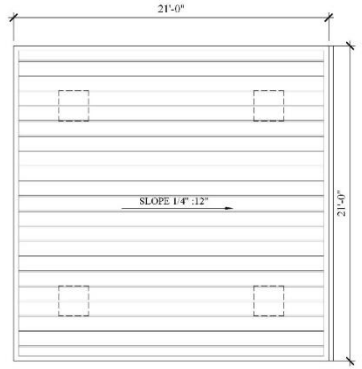
DUMPSTER PLAN DETAIL SCALE: 1/4" = 1'-0" 7



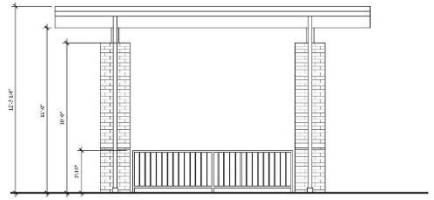
DUMPSTER ENCL. ELEVATION SCALE: 1/4" = 1'-0" 4



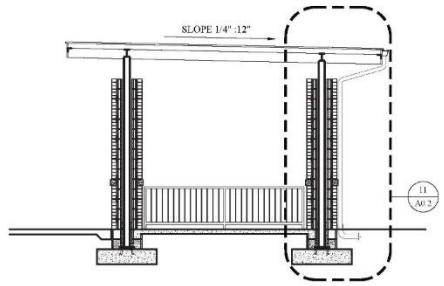
DUMPSTER ENCL. ELEVATION SCALE: 1/4" = 1'-0" 3



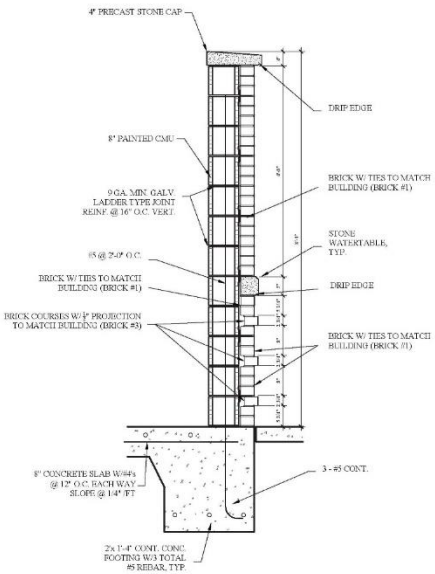
PAVILION ROOF PLAN SCALE: 1/4" = 1'-0" 13



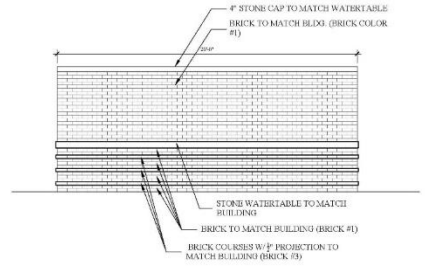
NORTH PAVILION ELEVATION SCALE: 1/4" = 1'-0" 10



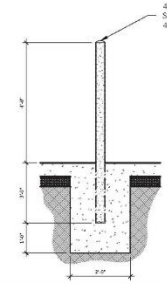
PAVILION SECTION SCALE: 1/4" = 1'-0" 9



DUMPSTER ENCL. WALL SECTION SCALE: 3/4" = 1'-0" 5



DUMPSTER ENCL. ELEVATION SCALE: 1/4" = 1'-0" 2



DUMPSTER BOLLARD DETAIL SCALE: 1/2" = 1'-0" 1

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Sheet Title
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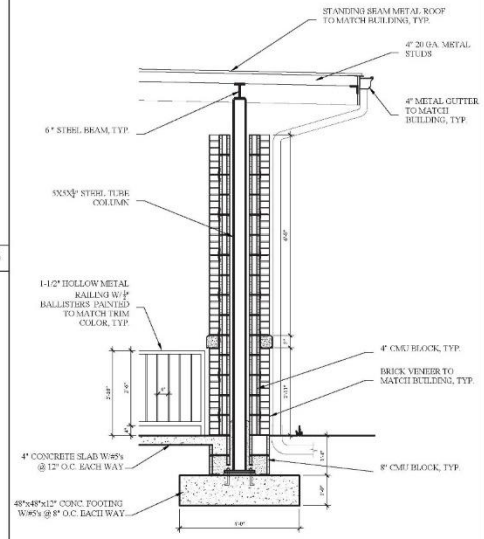
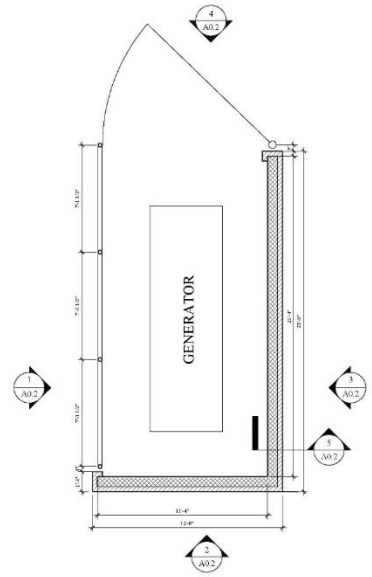
Sheet Number
A0.1

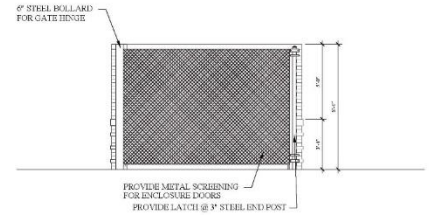


16

15 PAVILION COLUMN DETAIL SCALE: 1/2" = 1'-0" 11



GENERATOR ENCL. PLAN DETAIL SCALE: 1/4" = 1'-0" 7



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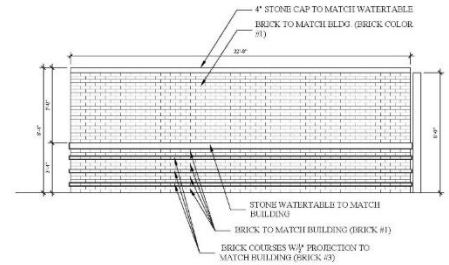
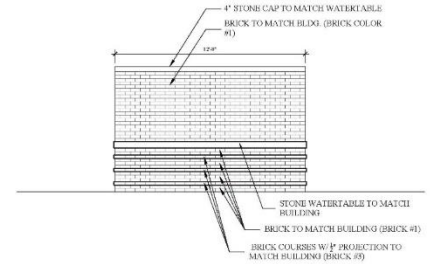
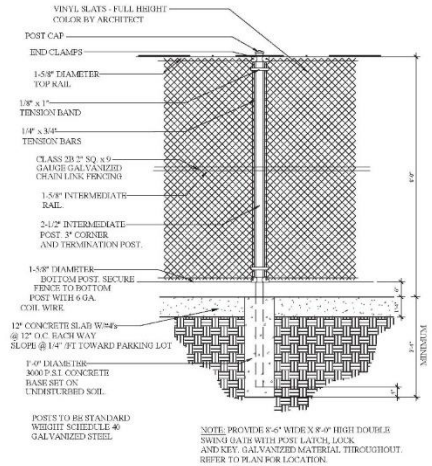


GENERATOR ENCL. ELEVATION SCALE: 1/4" = 1'-0" 3

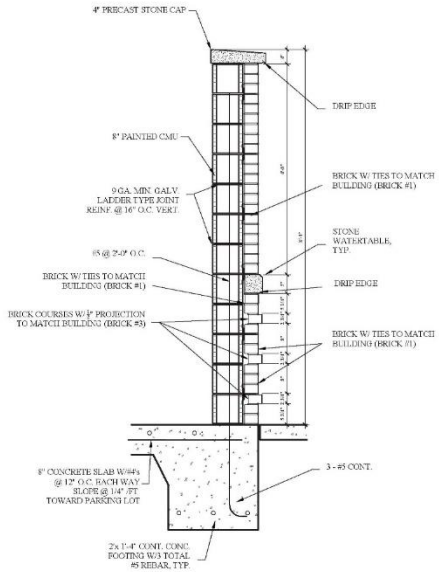


GENERATOR ENCL. ELEVATION SCALE: 1/4" = 1'-0" 2

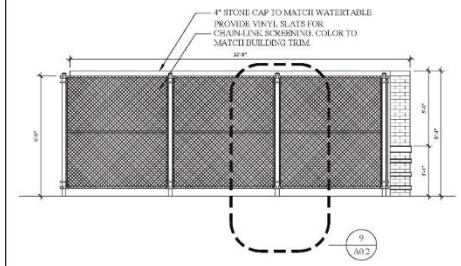
14



GENERATOR ENCL. ELEVATION SCALE: 1/2" = 1'-0" 9



GENERATOR ENCL. WALL SECTION SCALE: 3/4" = 1'-0" 5



GENERATOR ENCL. ELEVATION SCALE: 1/4" = 1'-0" 1

13

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Sheet Title
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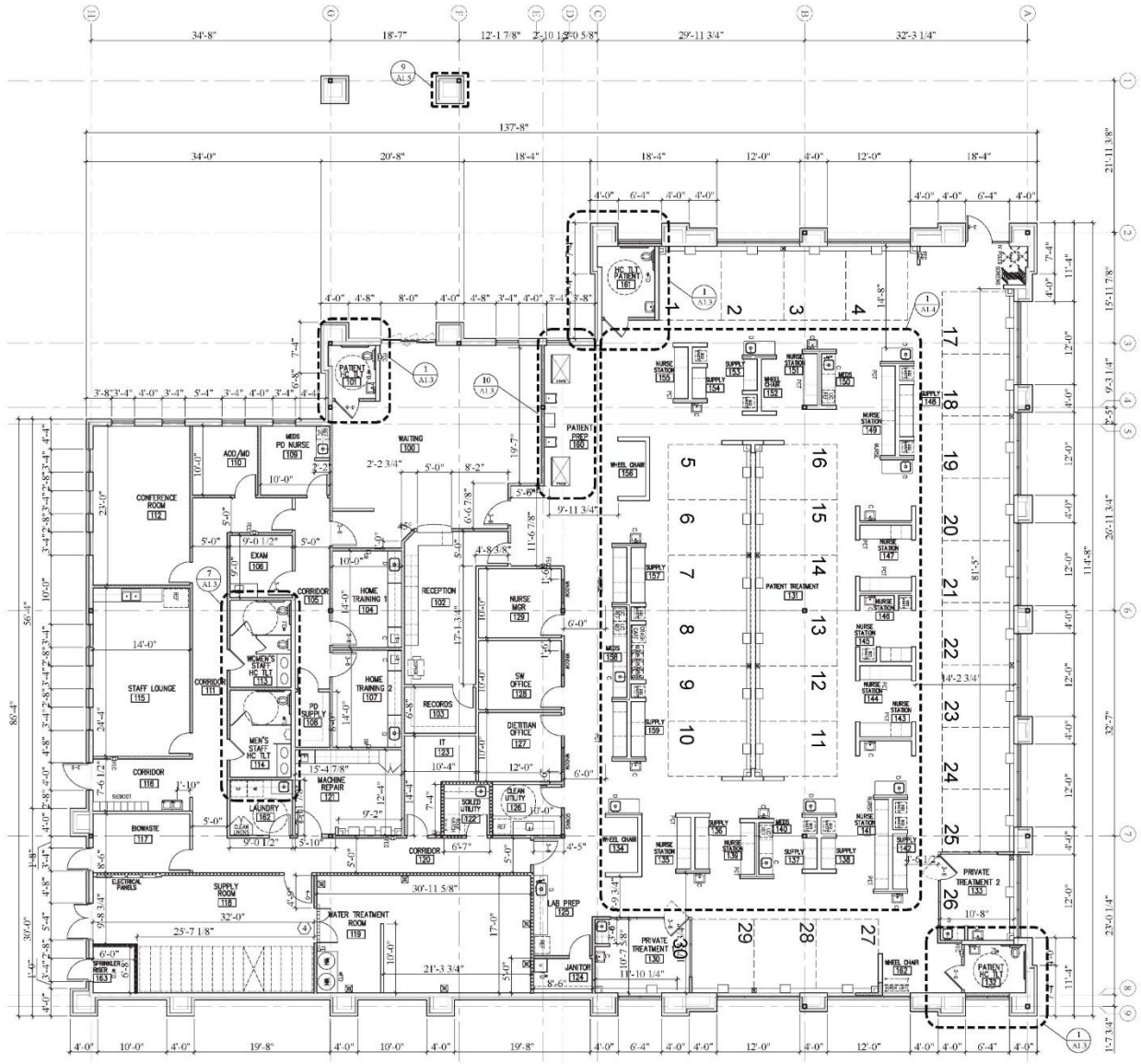
Sheet Number
A0.2



NOTE:
TOTAL SQUARE FOOTAGE
13,456 SF

FLOOR PLAN - DIMENSIONED

SCALE: 1/8" = 1'-0" 5

1 PROVIDE FLOOR DRAINS AND FLOOR SINKS AS REQUIRED. SEE PLUMBING DWGS.
2 PROVIDE WOOD SHELVING WHERE INDICATED.
3 PROVIDE STEEL THRESHOLD AT RECEIVING AND SHIPPING
4 PROVIDE TRENCH DRAIN AT DOOR OF WATER TREATMENT ROOM SEE DETAIL 10/A7.8
5 WATER HEATER LOCATION, PROVIDE 3'-6" x 6' x 4" CONCRETE PAD
6 PROVIDE PURPLE BD AND PLYWOOD AROUND WALLS IN WATER TREATMENT ROOM. SEE DETAILS G1.1
7 RECESSED MOUNTED ELECTRICAL PANEL LOCATION, SEE ELECTRICAL DRAWINGS
8 SLOPE WATER TREATMENT FLOOR 1/4" PER 1'-0" TOWARD DRAIN.
9 ROOF HATCH ACCESS AND LADDER LOCATION SEE DETAIL A1.6 PROVIDE WALL TO DECK
10 DOWNSPOUT LOCATIONS, SEE A3.0 & A4.1

NOTE: SEE G1.1 AND A1.2 FOR WALL TYPE LOCATIONS AND DESCRIPTIONS

NOTES TO SHEET 4

1

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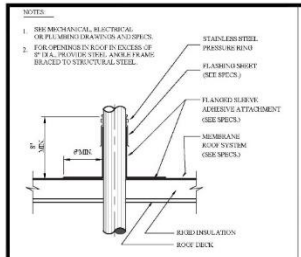
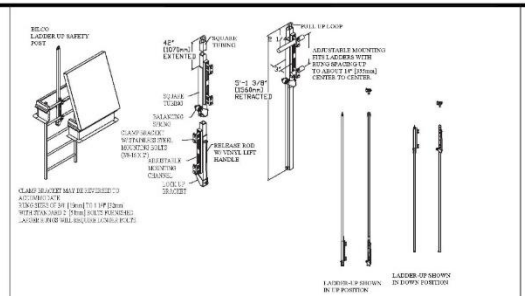
Project Number
19019.0

Sheet Title
FLOOR PLAN - DIMENSIONED

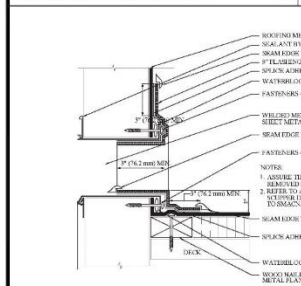
Sheet Number
A1.0



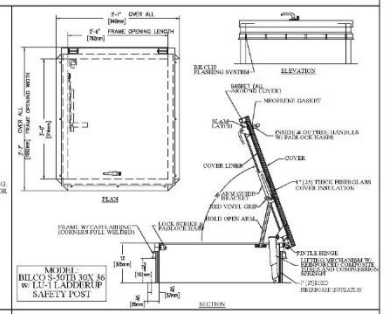
TUBULAR PENETRATION DETAIL 16



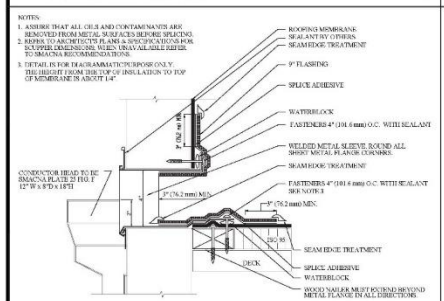
ROOF LADDER UP DETAIL 12



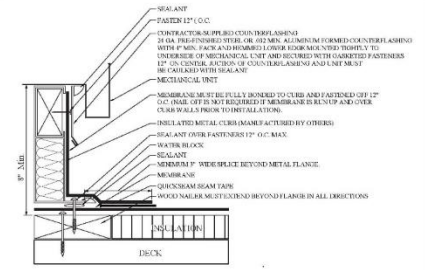
SECTION THRU OVERFLOW 15



ROOF HATCH DETAIL 11



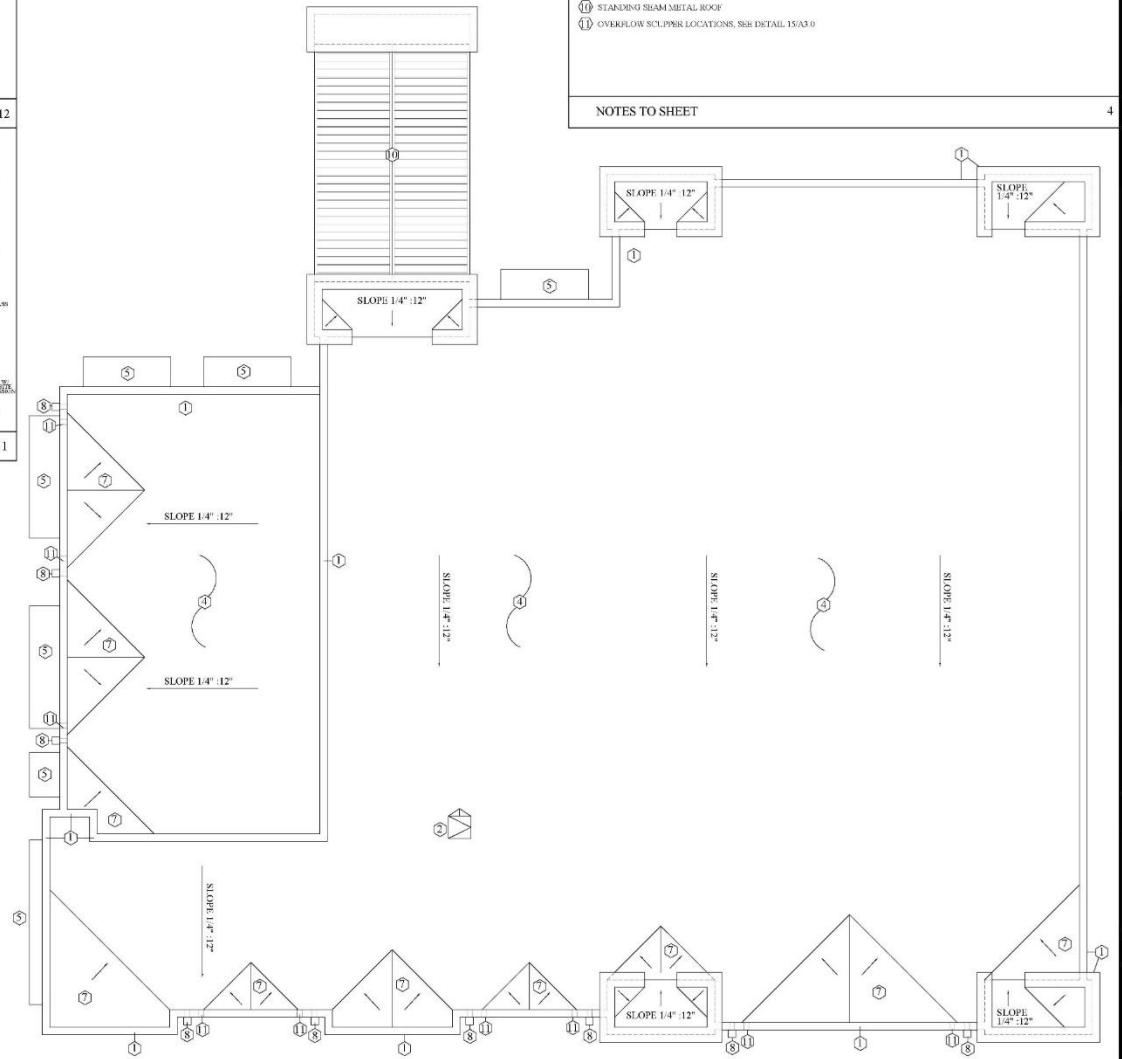
SECTION THRU SCUPPER/CONDUCTOR HEAD N.T.S. 14.



ROOF MOUNTED MECH. UNIT CURB DETAIL 13

1. PRE-FINISHED METAL COPING, REFERENCE BLDG. SECTIONS.
2. ROOF ACCESS HATCH, SEE 11/A3.0 FOR HATCH DETAIL
3. COMMERCIAL GRADE 4" PRE-FINISHED METAL GUTTER W/ 3" PRE-FINISHED DOWNSPOUTS.
4. 6-MIL ROOFING MEMBRANE ADHERED TO R-30 RIGID INSULATION ATOP 3/4" PLYWOOD DECKING. SLOPE ROOF 1/4" PER 1'-0" MIN.
5. METAL AWNING / CANOPY BELOW
6. RUN MEMBRANE UP WALL INTO METAL COPING AT EXTERIOR WALLS, 18" AT INTERIOR WALLS
7. PROVIDE ROOF CRICKET
8. 12" X12" PRE-FINISHED SCUPPER HEADS W DOWNSPOUTS, SEE DETAIL 14/A3.0
9. REFERENCE DETAIL 13/A3.0 FOR ROOF TOP UNIT CURB PENETRATIONS, VERIFY LOCATIONS W/ MEP.
10. STANDING SEAM METAL ROOF
11. OVERFLOW SCUPPER LOCATIONS, SEE DETAIL 15/A3.0

NOTES TO SHEET 4



ROOF PLAN SCALE: 1/8" = 1'-0" 1

Date / Issue
AUGUST 14, 2020
DESIGN REVIEW

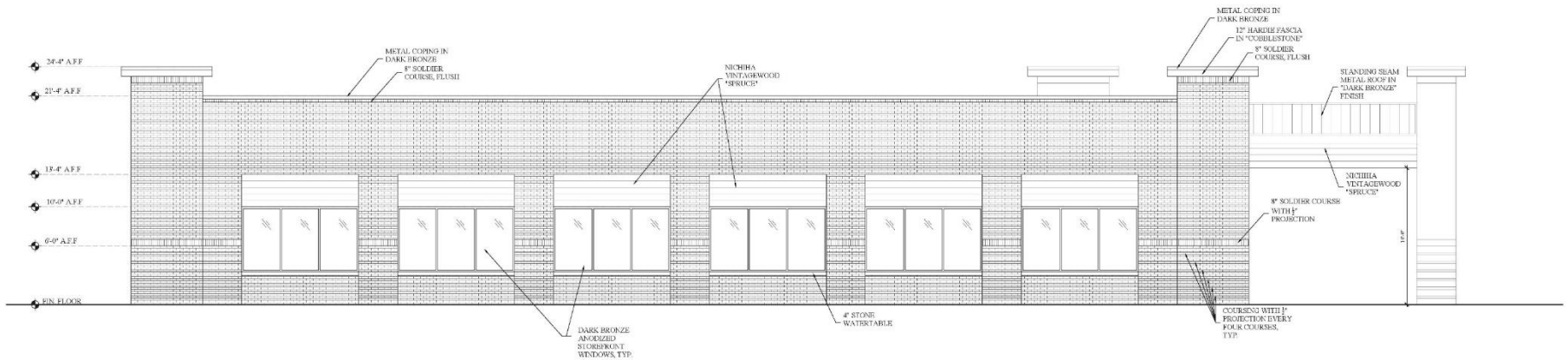
W. ASHLEY FACILITY
(2280) HENRY TECKLENBURG DR
CHARLESTON, SOUTH CAROLINA 29414

RANDALL DOVER ARCHITECT
4121 HILLSBORO ROAD • SUITE 203 • NASHVILLE, TN 37215 • (615) 383-5866

Project Number
19019.0

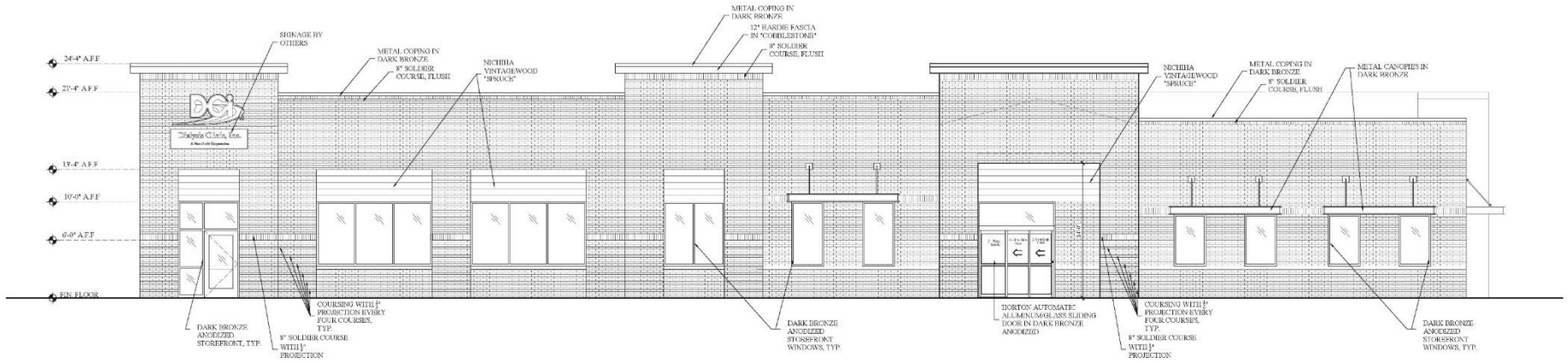
Sheet Title
ROOF PLAN

Sheet Number
A3.0



NORTH ELEVATION

SCALE: 3/16" = 1'-0" 3



WEST ELEVATION

SCALE: 3/16" = 1'-0" 1

Date / Issue

AUGUST 14, 2020
DESIGN REVIEW

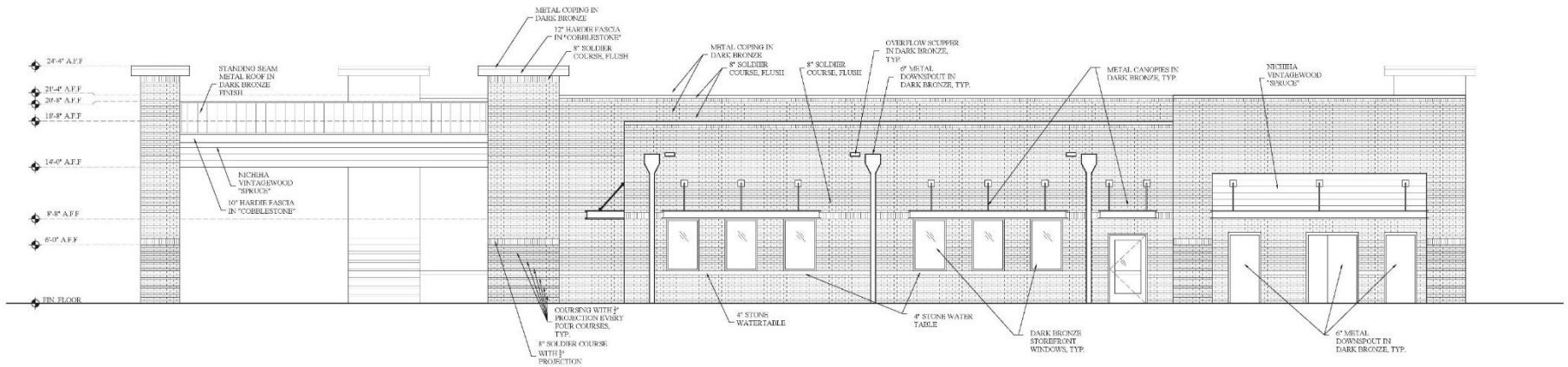
W. ASHLEY FACILITY
(2280) HENRY TECKLENBURG DR
CHARLESTON, SOUTH CAROLINA 29414

RANDALL DOVER ARCHITECT
4121 PLEASANT ROAD • SUITE 203 • NASHVILLE, TN 37215 • (615) 891-3986

Project Number
19019.0

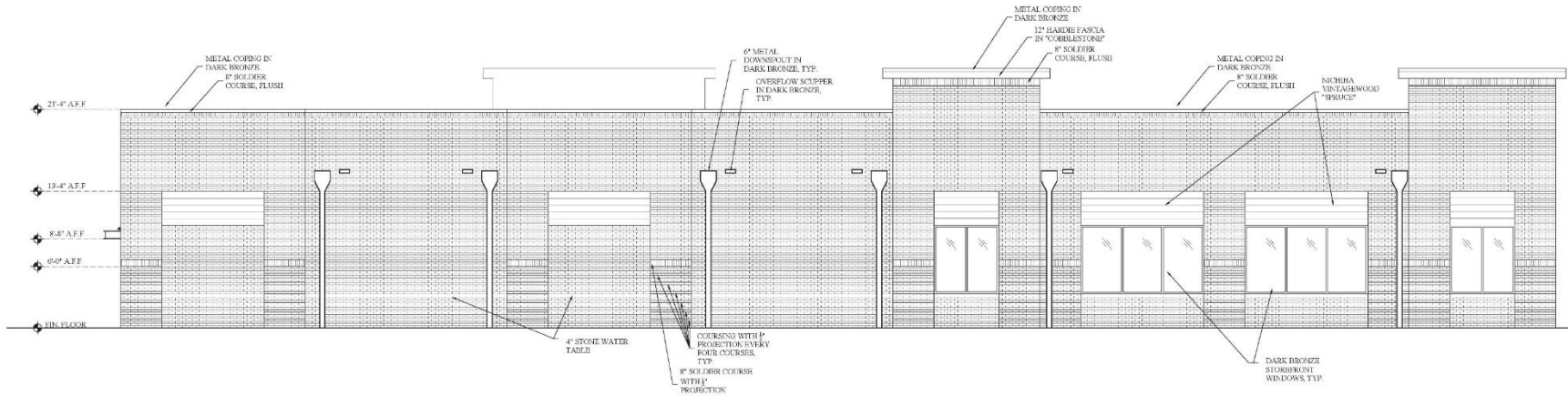
Sheet Title
EXTERIOR ELEVATIONS

Sheet Number
A4.0



SOUTH ELEVATION

SCALE: 3/16" = 1'-0" 3



EAST ELEVATION

SCALE: 3/16" = 1'-0" 1

Date / Issue

AUGUST 14, 2020
DESIGN REVIEW

W. ASHLEY FACILITY
(2280) HENRY TECKLENBURG DR
CHARLESTON, SOUTH CAROLINA 29414

RANDALL DOVER ARCHITECT
4121 HILLSBORO ROAD • SUITE 203 • NASHVILLE, TN 37215 • (615) 891-3986

Project Number
19019.0

Sheet Title
EXTERIOR ELEVATIONS

Sheet Number
A4.1

EXISTING STREETSCAPE

STREETSCAPE ELEVATION WITH PROPOSED LANDSCAPING

STREETSCAPE ELEVATION WITH PROPOSED LANDSCAPING HIDDEN

Date / Issue

AUGUST 14, 2020
DESIGN REVIEW

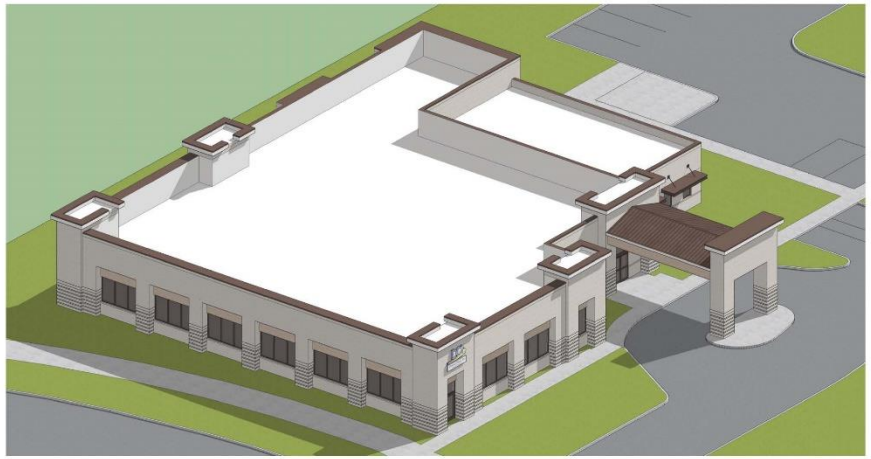
W. ASHLEY FACILITY
(2280) HENRY TECKLENBURG DR
CHARLESTON, SOUTH CAROLINA 29414

RANDALL DOVER ARCHITECT
4121 HILLSBORO ROAD • SUITE 325 • NASHVILLE, TN 37215 • (615) 383-5388

Project Number
19019.0

Sheet Title
EXISTING SITE PHOTO & STREETSCAPE ELEVATIONS

Sheet Number
A4.2



ISOMETRIC VIEW

VIEW FROM DRIVEWAY

ENTRANCE FROM PARKING LOT

SIDEWALK VIEW

Date / Issue

AUGUST 14, 2020
DESIGN REVIEW

W. ASHLEY FACILITY
(2280) HENRY TECKLENBURG DR
CHARLESTON, SOUTH CAROLINA 29414

RANDALL DOVER
ARCHITECT
4731 BELLSGROVE ROAD • SUITE 203 • KNOXVILLE, TN 37919 • (865) 531-2588

Project Number
19019.0

Sheet Title
BUILDING
RENDERINGS

Sheet Number
A4.3

Agenda Item #3

1325 FOLLY RD.
TMS #334-00-00-150

Request conceptual approval for the construction of a new car wash.

AAA FINS CAR WASH

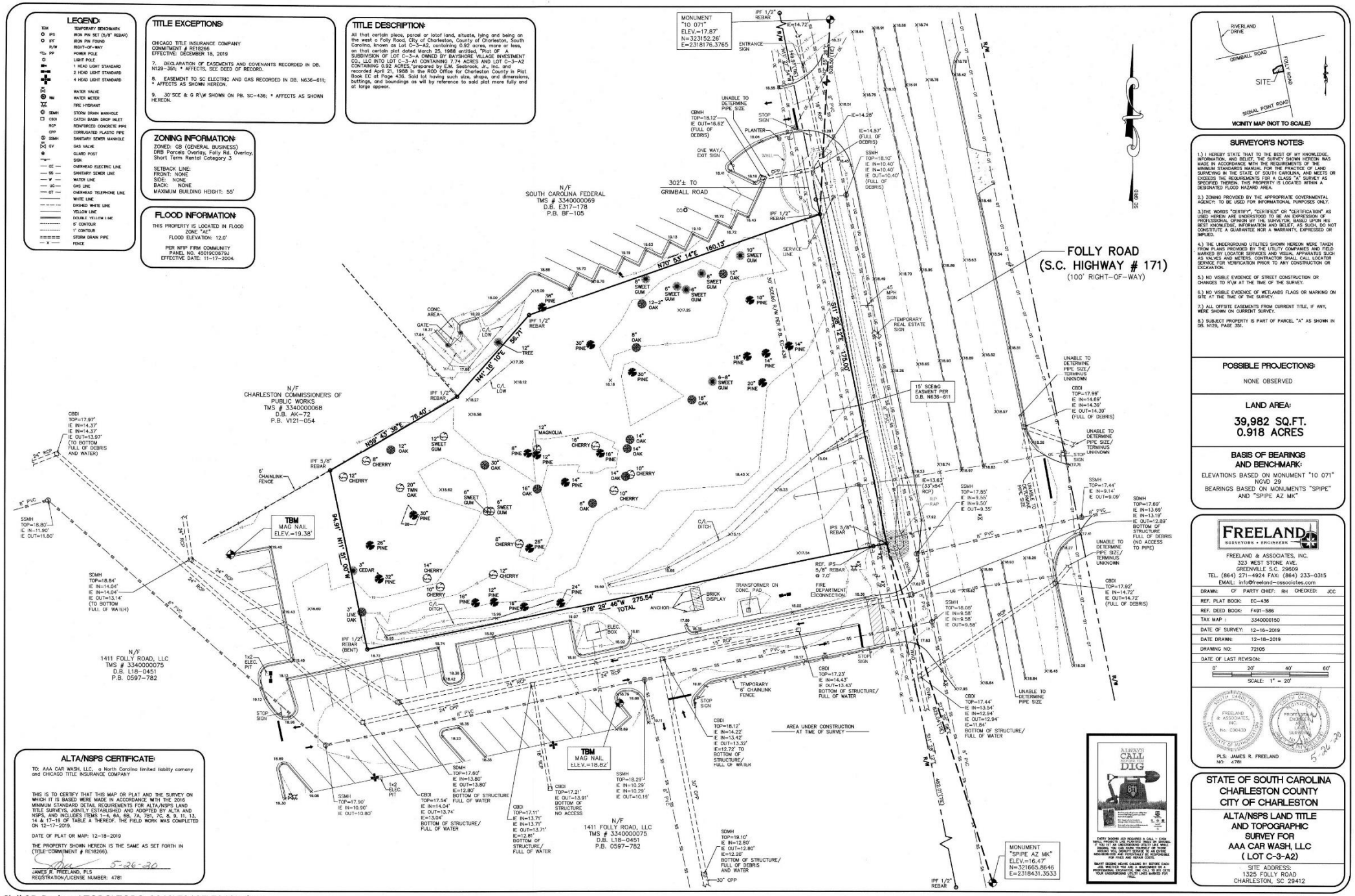
1325 FOLLY RD. / CHARLESTON, SC

DRB CONCEPTUAL REVIEW

SEPTEMBER 8TH 2020

BUILDING SQUARE FOOTAGE: 3,428 SF

progressive ae



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CONSTRUCTION DELIVERY ROUTE

I-26E TO SAVANNAH HIGHWAY (US-17 SOUTH) TO LOCKWOOD DRIVE SOUTH TO JAMES ISLAND CONNECTOR (SC 30) TO FOLLY ROAD (SC 171) SOUTH TO THE SITE: 1325 FOLLY ROAD.

CONSTRUCTION SEQUENCE NOTE

DRAINAGE ALONG ALL EXISTING ROADWAYS SHALL BE MAINTAINED AT ALL TIMES. EXISTING DITCHES TO REMAIN OPEN, CLEAR AND OPERATIONAL UNTIL PROVISIONS ARE MADE TO HANDLE THE DRAINAGE PER THIS SEQUENCE:

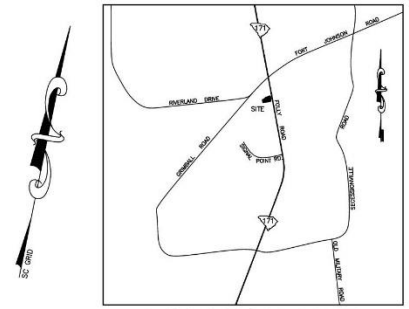
1. ERECT TREE BARRICADE AND SILT FENCE.
2. INSTALL SECTION OF 34x53 ERCP AT EXISTING DITCH CROSSING AND INSTALL CONSTRUCTION EXIT.
3. DEMOLITION OF EXISTING FEATURES TO BE REMOVED.
4. CLEARING & GRUBBING OF ALL EXISTING VEGETATION WITHIN THE CONSTRUCTION LIMITS
5. DRAINAGE STRUCTURES AND PIPES TO BE CONSTRUCTED.
6. BUILDING AND UTILITIES TO BE CONSTRUCTED.
7. FINAL STABILIZATION OF LANDSCAPED AREAS & PROJECT CLOSEOUT.

GRAND TREE SUMMARY	
TOTAL GRAND TREES ON SITE	1
GRAND TREES TO BE REMOVED	0
GRAND TREES TO REMAIN	1

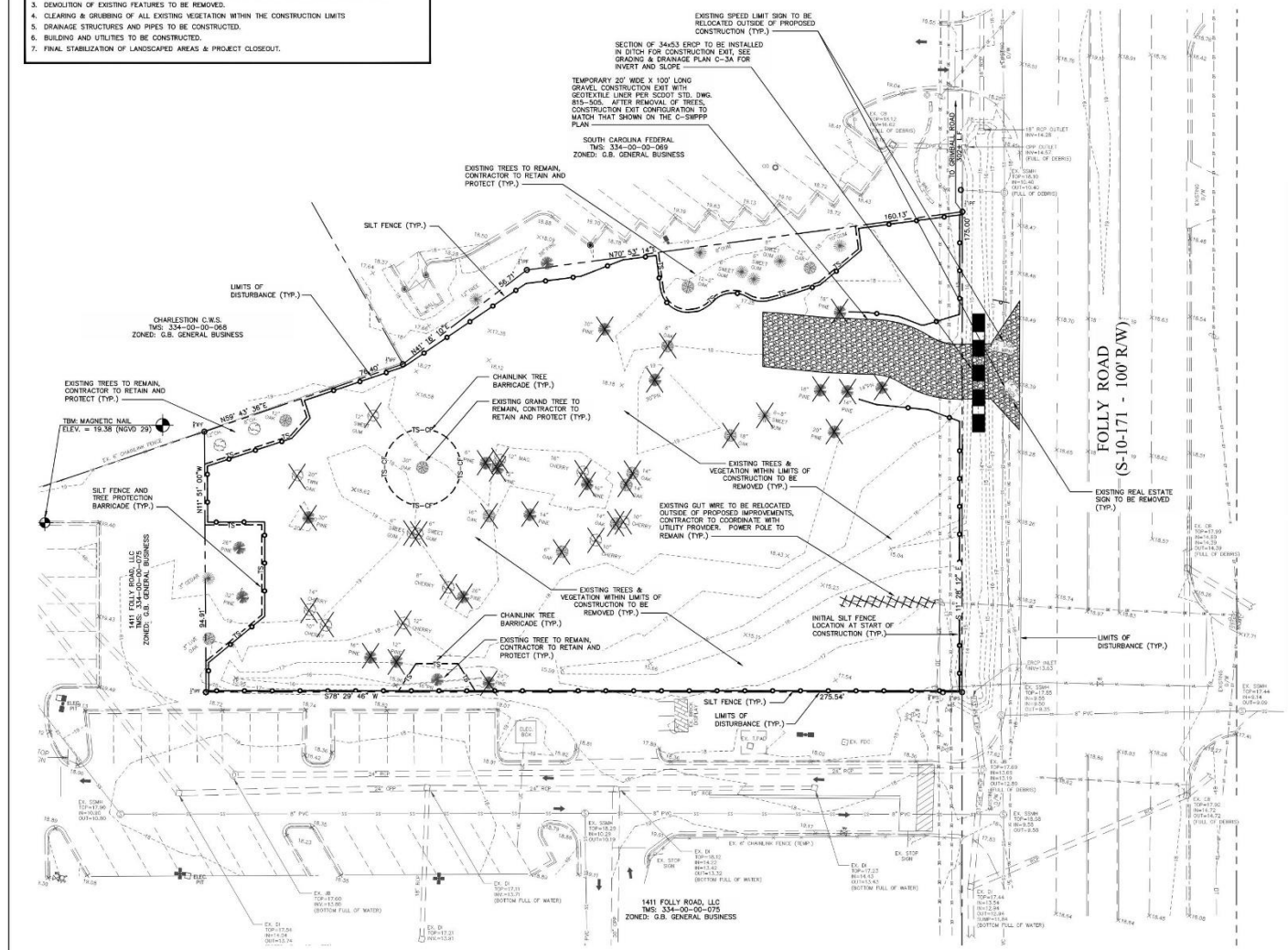
PROTECTED TREE SUMMARY:

GROSS SITE ACREAGE	0.92 ACRES
AREA OF EXISTING UTILITY AND DRAINAGE EASEMENTS	0.11 ACRES
NET SITE ACREAGE	0.81 ACRES
REQUIRED NUMBER OF TREES TO BE SAVED (15 PER NET ACREAGE)	12 TREES
PROPOSED NUMBER OF TREES TO BE SAVED	16 TREES*

*INCLUDING 3" AND 6" TREES LOCATED WITHIN THE TREE SAVE AREAS OF THE PROPERTY.



LOCATION MAP
N.T.S.



TREE PROTECTION/DEMOLITION PLAN

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL CONSTRUCT ALL TEMPORARY EROSION CONTROL SYSTEMS AS SHOWN ON THE EROSION CONTROL PLAN, DIRECTED BY THE ENGINEER, OR D.H.E.C./O.C.R.M. INSPECTOR TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENTATION.
2. VARIATIONS TO CONDITIONS OR DISCREPANCIES IN ACTUAL FIELD CONDITIONS AS THEY APPLY TO THE DEMOLITION OR SITE DEVELOPMENT WORK ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY SITE WORK.
3. CONTRACTOR SHALL LOCATE AND IDENTIFY ALL EXISTING UTILITIES THAT ARE TO REMAIN AND PROTECT THEM FROM DAMAGE.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL AND/OR RELOCATION OF ALL EXISTING ABOVE & BELOW GROUND UTILITIES AS NECESSARY PRIOR TO BEGINNING CONSTRUCTION.
5. NO BURNING SHALL BE ALLOWED ON SITE. ALL TREES, LIMBS, AND BRUSH SHALL BE CHIPPED AND REMOVED FROM SITE, UNLESS A BURNING PERMIT IS OBTAINED FROM THE GOVERNING MUNICIPALITY.
6. CONTRACTOR TO PROTECT TREES, PLANT GROWTH AND FEATURES DESIGNATED TO REMAIN AS FINAL LANDSCAPE MATERIAL. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE TOPSOIL STOCKPILE AREA, IF REQUIRED.
7. CONTRACTOR TO CONDUCT ALL DEMOLITION OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES AND FACILITIES,
8. CONTRACTOR TO PROTECT ALL BENCH MARKS, PROPERTY CORNERS, AND ALL OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF A MARKER REQUIRES MOVING, IT SHALL BE REFERENCED BY A LICENSED LAND SURVEYOR AND REPLACED.
9. PROVIDE TRAFFIC CONTROL AS REQUIRED IN ACCORDANCE THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND GOVERNING MUNICIPALITY REQUIREMENTS.
10. DEPRESSIONS AND VOID AREAS CAUSED BY DEMOLITION ACTIVITIES ARE TO BE FILLED TO SUBGRADE ELEVATION TO AVOID WATER PONDING.
11. ALL CONSTRUCTION/DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

TRAFFIC & TRANSPORATION NOTES

1. IF TRAFFIC SIGNALS OR TRAFFIC SIGNAL EQUIPMENT IS IMPACTED IN ANY WAY, SHOW EXISTING AND PROPOSED CHANGES. CHANGES OR IMPACTS TO TRAFFIC SIGNAL ITEMS MUST BE COORDINATED WITH TRAFFIC & TRANSPORTATION.
2. IF TRAFFIC SIGNS OR MARKINGS WITHIN THE RIGHT OF WAY ARE IMPACTED, SHOW EXISTING AND PROPOSED RELOCATIONS. RELOCATION OF THESE ITEMS MUST BE COORDINATED WITH TRAFFIC & TRANSPORTATION.
3. IF THE STREET IS BLOCKED OR IMPACTED DURING CONSTRUCTION AT ANY TIME FOR FOR ANY REASON, A STREET BLOCKING PERMIT IS REQUIRED. NO CONSTRUCTION PARKING OR STAGING WILL BE PERMITTED WITHIN THE RIGHT OF WAY WITHOUT PRIOR AUTHORIZATION BY TRAFFIC & TRANSPORTATION.
4. LANE CLOSURES OF ANY TYPE OR DURATION WITHIN THE R/W MUST BE APPROVED BY TRAFFIC & TRANSPORTATION WELL IN ADVANCE OF THE OCCURRENCE. NO CONSTRUCTION PARKING OR STAGING WILL BE ALLOWED WITHIN THE R/W WITHOUT PRIOR APPROVAL BY TRAFFIC & TRANSPORTATION.
5. NO CONSTRUCTION PARKING OR STAGING WILL BE PERMITTED WITHIN THE RIGHT-OF-WAY WITHOUT PRIOR AUTHORIZATION BY TRAFFIC AND TRANSPORTATION.
6. CONSTRUCTION AND DEMOLITION TRAFFIC MUST AVOID RESIDENTIAL STREETS AT ALL TIMES UNLESS THERE ARE NO ALTERNATIVE ROUTES. IF IMPACTS TO RESIDENTIAL STREETS ARE ANTICIPATED, THE CONTRACTOR SHOULD CALL TRAFFIC AND TRANSPORTATION PRIOR TO USING THE ROUTE.

LEGEND

- EXISTING FEATURES
- EXISTING FENCE
- EASEMENTS/SETBACKS
- PROPOSED FEATURES
- EXISTING PROPERTY LINES
- PROPOSED BUILDING LINES
- CONCRETE SIDEWALK
- ASPHALT MULTI-USE PATH
- CONCRETE PAVEMENT
- SCDOT CONCRETE PAVEMENT
- DECORATIVE CONCRETE PAVERS
- EXISTING UTILITIES
- EXISTING/PROPOSED STORM SEWER
- PROPOSED STORM SEWER
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEV. +10.75
- PROPOSED WATER SERVICES 1" DW
- PROPOSED SANITARY SEWER SERVICE 6" DIP SS
- TREE PROTECTION BARRICADE TS TS
- SILT FENCE
- LIMITS OF LAND DISTURBANCE
- EXISTING FEATURES TO BE REMOVED

South Carolina 811 Call 811 Before you Dig
Know what's below. CALL before you dig.

SOUTH CAROLINA EMPIRE ENGINEERING, LLC NO. C02440 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 21853 THOMAS M. DURANTE 9/8/20

CIVIL & STRUCTURAL CONSULTING ENGINEERS
4930 RIVERS AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29406
PHONE (843)308-0800
FAX (843)308-0806

EMPIRE ENGINEERING, LLC

fins CAR WASH

1325 FOLLY ROAD, CHARLESTON, SC 29412
CITY PROJECT ID: TRC-SP2020-T.B.D.

REVISION SCHEDULE			
NO.	DESCRIPTION	BY	DATE

DESIGNED:	T.M.D.
DRAWN:	T.M.D.
JOB NUMBER:	2019-125
DATE:	SEPTEMBER 8, 2020
CITY APPROVAL:	T.B.D.
SCALE:	1" = 20'

C - 0

SITE DATA	
PROPERTY ADDRESS: 1325 FOLLY ROAD (TMS: 334-00-00-150)	
SITE ACREAGE (TOTAL)	0.918 ACRES
HIGHLAND	0.918 ACRES
CRITICAL AREA	0.00 ACRES
ZONING	G.B. – GENERAL BUSINESS
PROPOSED USE (NO WALK UP SALES OR RETAIL)	CAR WASH
PROPOSED BUILDING SQUARE FOOTAGE	3,500 S.F.
PROPOSED NUMBER OF EMPLOYEES	4 EMPLOYEES
PARKING REQUIRED: 2/BAY + 1 PER EMPLOYEE	5 SPACES
TOTAL PARKING PROVIDED	20 SPACES
BUILDING HEIGHT (TOP OF PARAPET)	26'-8" (31'-2" FROM ROAD CURB)
BUILDING HEIGHT LIMIT	55 FEET
EXISTING IMPERVIOUS AREA	0.00 AC. (0.0%)
PROPOSED IMPERVIOUS AREA	0.55 AC. (60.0%)

NOTE: FOR ANY PORTION OF THE ADJACENT SCDOT TRAVEL LANE SURFACE THAT IS DAMAGED OR SAW-CUT DURING CONSTRUCTION, THE FULL WIDTH OF THE LANE SHALL BE MILLED 2" AND RESURFACED FOR THE LENGTH OF THE DAMAGE PLUS 10 FEET AT EACH END. NEW ASPHALT PAVEMENT TO MEET SCDOT STDS, SEE DETAIL SHEET FOR SCDOT PAVING SECTION.

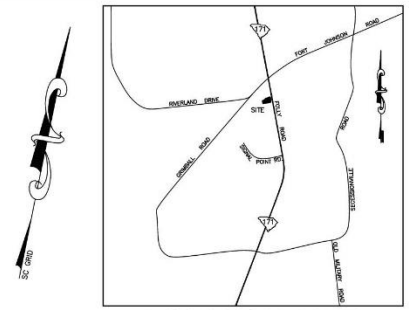
NOTE: CONTRACTOR TO SEE SCDOT STANDARD DRAWING 610-030 & 610-205 FOR NIGHT TIME TRAFFIC CONTROL LANE AND SHOULDER CLOSURES FOR FOLLY ROAD (LANE CLOSURE RESTRICTED TO BETWEEN 10PM AND 6AM).

S.C.D.O.T. NOTES:

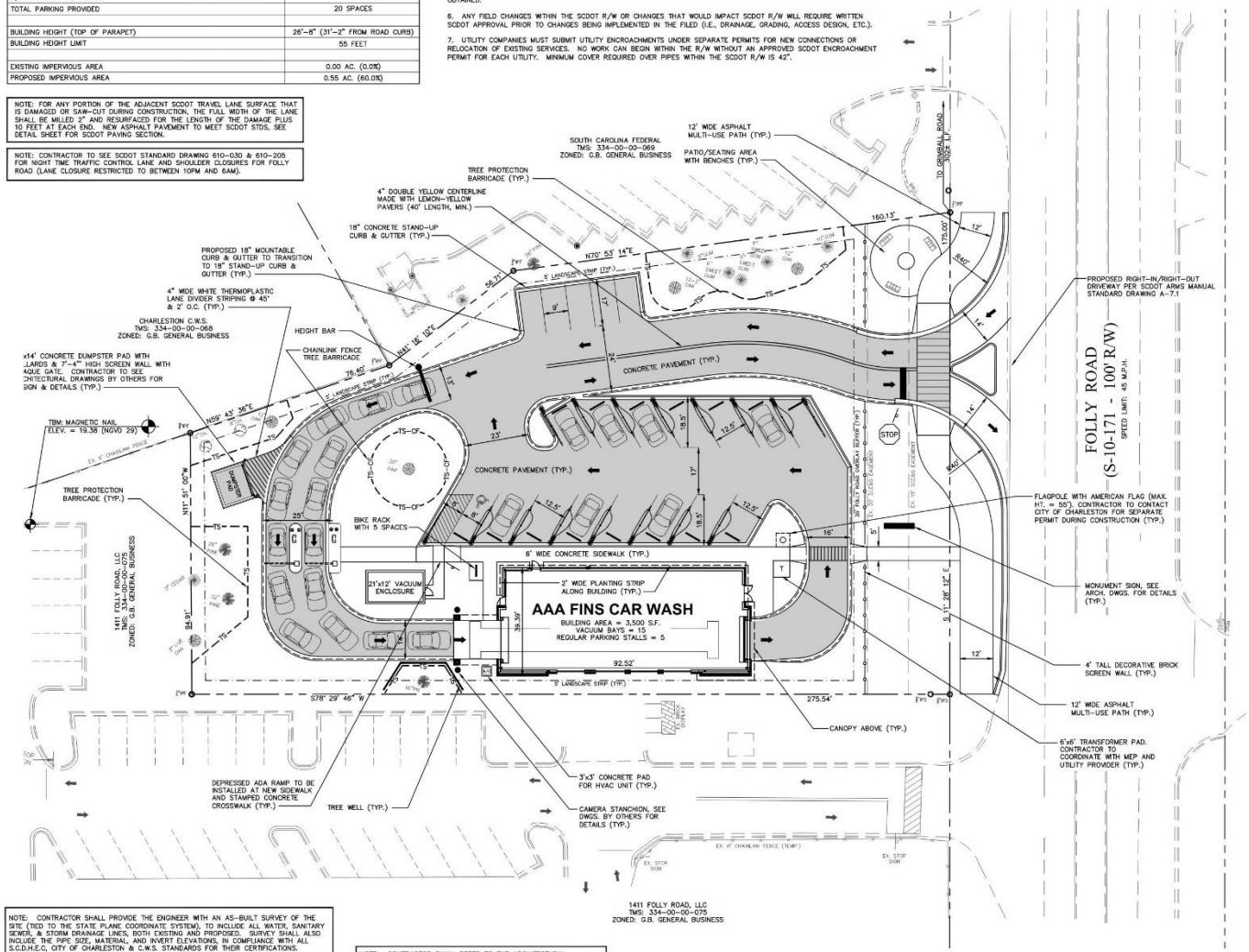
1. CONTRACTOR TO REFER TO THE MOST CURRENT EDITION OF THE SCDOT STANDARD DRAWINGS (JANUARY 2013) FOR THE LATEST INFORMATION REGARDING ALL WORK WITH THE S.C.D.O.T. RIGHT OF WAY.
2. THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (S.C.D.O.T.) SHALL BE GIVEN THE RIGHT TO ATTEND ANY PRE-CONSTRUCTION CONFERENCES.
3. S.C.D.O.T. SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE DATE AND TIME PERMITTED WORK WILL BEGIN, DURING THE HOURS OF 8:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY. WRITTEN NOTIFICATION IS REQUIRED BEFORE WORK CAN BEGIN.
4. CONTRACTOR TO PROVIDE A TRAFFIC CONTROL PLAN FOR ALL LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION, TO INCLUDE DATE AND TIME.
5. ROADWAY SHOULDERS DISTURBED BY ANY PROPOSED CONSTRUCTION SHALL BE RE-SHAPED AND ROLLED TO THE CROSS SECTION EXISTING PRIOR TO BEGINNING WORK, SEEDED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
6. ANY FIELD CHANGES WITHIN THE SCDOT R/W OR CHANGES THAT WOULD IMPACT SCDOT R/W WILL REQUIRE WRITTEN SCDOT APPROVAL PRIOR TO CHANGES BEING IMPLEMENTED IN THE FILED (I.E., DRAINAGE, GRADING, ACCESS DESIGN, ETC.).
7. UTILITY COMPANIES MUST SUBMIT UTILITY ENCROACHMENTS UNDER SEPARATE PERMITS FOR NEW CONNECTIONS OR RELOCATION OF EXISTING SERVICES. NO WORK CAN BEGIN WITHIN THE R/W WITHOUT AN APPROVED SCDOT ENCROACHMENT PERMIT FOR EACH UTILITY. MINIMUM COVER REQUIRED OVER PIPES WITHIN THE SCDOT R/W IS 42".

SIGHT DISTANCE - FOLLY ROAD	
SPEED LIMIT	45 M.P.H.
SIGHT DISTANCE REQUIRED (TABLE 7-13 SCDOT ARMS MANUAL)	575 FT.
SIGHT DISTANCE PROVIDED (LINE OF SIGHT LOOKING WEST)	1,000+ FT.
SIGHT DISTANCE PROVIDED (LINE OF SIGHT LOOKING EAST)	1,000+ FT.

NOTE: ALL TRAFFIC CONTROL DEVICES AND DRIVEWAYS SHOWN ON THIS PLAN SHALL CONFORM TO SCDOT ACCESS & ROADSIDE MANAGEMENT STANDARDS (ARMS MANUAL), LATEST EDITION AS WELL AS BE TO MUTCD STANDARDS (MANUAL of UNIFORM TRAFFIC CONSTROL DEVICES).



LOCATION MAP
N.T.S.



SITE PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

GENERAL NOTES:

1. PROJECT DESCRIPTION: NEW CAR WASH AND SMALL PARKING LOT.
2. PERSONS USING THIS DRAWING SHOULD CONTACT THE LOCAL UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES.
3. ALL DIMENSIONS ARE TO/FROM EDGE OF PAVEMENT, OUTSIDE FACE OF BUILDING WALL OR FACE OF STAND UP CURB UNLESS NOTED OTHERWISE. MOUNTABLE CURB DIMENSIONS ARE TO BACK OF CURB. ALL RADIUS DIMENSIONS ARE 3', UNLESS NOTED OTHERWISE.
4. SITE IS LOCATED AT 1325 FOLLY ROAD (TMS #334-00-00-150), IN THE CITY OF CHARLESTON, CHARLESTON COUNTY, SOUTH CAROLINA AND CONTAINS 0.918 ACRES.
5. THIS PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE AE (ELEVATION 12) PER F.E.M.A. MAP COMMUNITY PANEL NUMBER 45019C 0679 J, DATED NOVEMBER 17, 2004.
6. PROPERTY ZONING: G.B. – GENERAL BUSINESS DISTRICT.
7. BUILDING SETBACKS: FRONT YARD = 0'
   SIDE YARD = 0'
   REAR YARD = 0'
8. BUFFERS: FRONT YARD = 25' CLASS II FOLLY ROAD BUFFER)
   SIDE YARD = 5' LANDSCAPE STRIP
   REAR YARD = 5' LANDSCAPE STRIP
9. HORIZONTAL DATUM FOR THIS PROJECT IS BASED ON A SURVEY BY FREELAND SURVEYORS, DATED JANUARY 16, 2020
10. ALL CONSTRUCTION TO CONFORM TO THE CITY OF CHARLESTON STANDARDS AND SPECIFICATIONS, LATEST EDITION.
11. NO MATERIALS SHALL BE BURIED ON SITE.
12. THE CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES, FIRE MARSHALL, AND OWNER'S REPRESENTATIVE PRIOR TO INTERRUPTION OF ANY UTILITY SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH AND ADHERENCE TO EACH UTILITY COMPANY'S AND FIRE MARSHALL'S REGULATIONS REGARDING SERVICE INTERRUPTION.
13. THE CONTRACTOR MUST PROTECT ALL LANDSCAPING AND OTHER FEATURES DESIGNATED TO REMAIN AND REPLACE SUCH ITEMS IF DISTURBED DURING CONSTRUCTION.
14. THE CONTRACTOR MUST PROTECT BENCH MARKS, PROPERTY CORNERS, AND ALL OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF A MARKER MUST BE REMOVED, IT SHALL BE REMOVED BY A LICENSED LAND SURVEYOR AND RELOCATED.
15. THE CONTRACTOR SHALL FIELD LOCATE, MARK AND PROTECT ALL EXISTING UTILITIES.
16. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AS-BUILT SURVEYS OF THE SITE UTILITIES (TIED TO THE STATE PLANE COORDINATE SYSTEM), TO INCLUDE ALL WATER, SANITARY SEWER, & STORM DRAINAGE LINES, BOTH EXISTING AND PROPOSED. SURVEY SHALL ALSO INCLUDE THE PIPE SIZE, MATERIAL, AND INVERT ELEVATIONS, VALVE CARDS AND VIDEO INSPECTIONS IN COMPLIANCE WITH ALL SCDHEC & CHARLESTON WATER SYSTEM (CWS), CHARLESTON ENGINEERING DEPARTMENT STANDARDS FOR THEIR CERTIFICATIONS. DETENTION POND AS-BUILTS SHALL INCLUDE ALL CONTOURS AND SPOT ELEVATION INSIDE THE POND AS WELL AS THE OUTLET STRUCTURE WEIR ELEVATIONS AND SIZES AS REQUIRED BY OCRM AND GOVERNING MS4.

LEGEND

EXISTING FEATURES	
EXISTING FENCE	
EASEMENTS/SETBACKS	
PROPOSED FEATURES	
EXISTING PROPERTY LINES	
PROPOSED BUILDING LINES	
CONCRETE SIDEWALK	
ASPHALT MULTI-USE PATH	
CONCRETE PAVEMENT	
SCDOT CONCRETE PAVEMENT	
DECORATIVE CONCRETE PAVERS	
EXISTING UTILITIES	
EXISTING/PROPOSED STORM SEWER	
PROPOSED STORM SEWER	
EXISTING CONTOUR	10
PROPOSED CONTOUR	10
PROPOSED SPOT ELEV.	+10.75
PROPOSED WATER SERVICES	1" DW
PROPOSED SANITARY SEWER SERVICE	6" DIP SS
TREE PROTECTION BARRICADE	TS TS
SILT FENCE	
LIMITS OF LAND DISTURBANCE	
EXISTING FEATURES TO BE REMOVED	

NOTE: CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AN AS-BUILT SURVEY OF THE SITE (TIED TO THE STATE PLANE COORDINATE SYSTEM), TO INCLUDE ALL WATER, SANITARY SEWER, & STORM DRAINAGE LINES, BOTH EXISTING AND PROPOSED. SURVEY SHALL ALSO INCLUDE THE PIPE SIZE, MATERIAL, AND INVERT ELEVATIONS, IN COMPLIANCE WITH ALL S.C.D.H.E.C, CITY OF CHARLESTON & C.W.S. STANDARDS FOR THEIR CERTIFICATIONS. DETENTION POND AS-BUILTS SHALL INCLUDE ALL CONTOURS AND SPOT ELEVATION INSIDE THE POND AS WELL AS THE OUTLET STRUCTURE WEIR ELEVATIONS AND SIZES AS REQUIRED BY OCRM.

NOTE: CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF ALL BUILDINGS, DRIVEWAYS, EXIT PORCHES, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. ALL DIMENSIONS SHOWN ARE TO OUTSIDE BUILDING WALL, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES WITH EACH UTILITY PROVIDER.

NOTE: ALL SIGNS REQUIRE A SEPARATE SIGN PERMIT, CONTACT ANA HARP – (843) 724-3755.

NOTE: CONTRACTOR SHALL CONTACT BRENDA KITTRELL AT THE CITY OF CHARLESTON TO SCHEDULE SILT FENCE AND CONSTRUCTION ENTRANCE INSPECTION PRIOR TO THE RELEASE OF THE BUILDING PERMIT – (843) 724-3782.

South Carolina 811
Call 811 Before you Dig
Know what's below. CALL before you dig.

PREVIOUS SUBMISSION

SOUTH CAROLINA EMPIRE ENGINEERING, LLC NO. C03440 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 21852 THOMAS M. DURANT 5/12/20

CIVIL & STRUCTURAL CONSULTING ENGINEERS
4930 RIVERS AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29406
PHONE (843)308-0800
FAX (843)308-0806

EMPIRE ENGINEERING LLC

fins CAR WASH

1325 FOLLY ROAD, CHARLESTON, SC 29412
CITY PROJECT ID: TRC-SP2020-T.B.D.

REVISION SCHEDULE			
NO.	DESCRIPTION	BY	DATE

DESIGNED:	T.M.D.
DRAWN:	T.M.D.
JOB NUMBER:	2019-125
DATE:	MAY 22, 2020
CITY APPROVAL:	T.B.D.
SCALE:	

C-1A

SITE DATA	
PROPERTY ADDRESS: 1325 FOLLY ROAD (TMS: 334-00-00-150)	
SITE ACREAGE (TOTAL)	0.918 ACRES
HIGHLAND	0.918 ACRES
CRITICAL AREA	0.00 ACRES
ZONING	G.B. – GENERAL BUSINESS
PROPOSED USE (NO WALK UP SALES OR RETAIL)	CAR WASH
PROPOSED BUILDING SQUARE FOOTAGE	3,500 S.F.
PROPOSED NUMBER OF EMPLOYEES	4 EMPLOYEES
PARKING REQUIRED: 2/BAY + 1 PER EMPLOYEE	5 SPACES
TOTAL PARKING PROVIDED	20 SPACES
BUILDING HEIGHT (TOP OF PARAPET)	26'-8" (31'-2" FROM ROAD CURB)
BUILDING HEIGHT LIMIT	55 FEET
EXISTING IMPERVIOUS AREA	0.00 AC. (0.0%)
PROPOSED IMPERVIOUS AREA	0.55 AC. (60.0%)

S.C.D.O.T. NOTES:

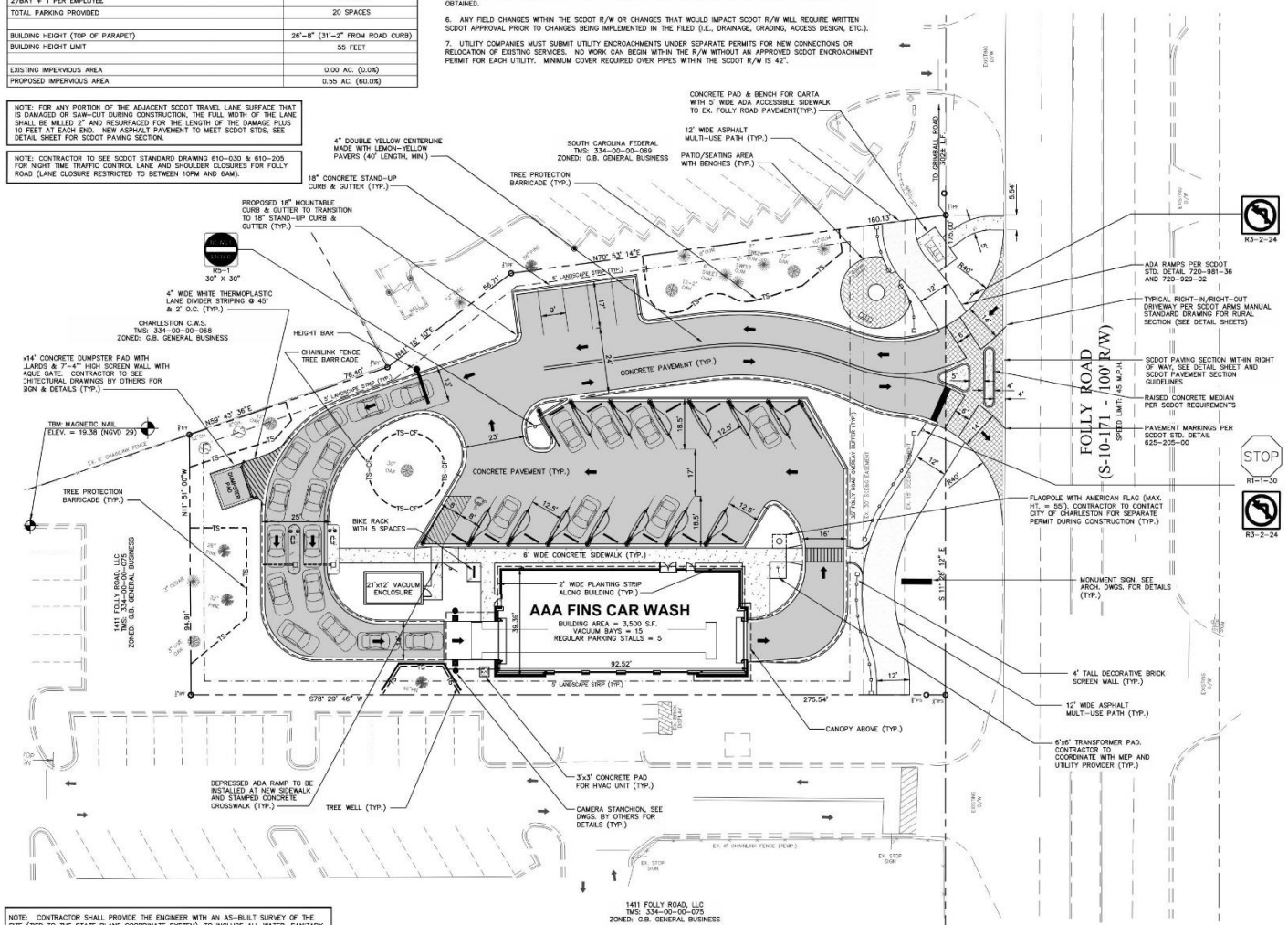
1. CONTRACTOR TO REFER TO THE MOST CURRENT EDITION OF THE SCDOT STANDARD DRAWINGS (JANUARY 2013) FOR THE LATEST INFORMATION REGARDING ALL WORK WITH THE S.C.D.O.T. RIGHT OF WAY.
2. THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (S.C.D.O.T.) SHALL BE GIVEN THE RIGHT TO ATTEND ANY PRE-CONSTRUCTION CONFERENCES.
3. S.C.D.O.T. SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE DATE AND TIME PERMITTED WORK WILL BEGIN, DURING THE HOURS OF 8:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY. WRITTEN NOTIFICATION IS REQUIRED BEFORE WORK CAN BEGIN.
4. CONTRACTOR TO PROVIDE A TRAFFIC CONTROL PLAN FOR ALL LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION, TO INCLUDE DATE AND TIME.
5. ROADWAY SHOULDERS DISTURBED BY ANY PROPOSED CONSTRUCTION SHALL BE RE-SHAPED AND ROLLED TO THE CROSS SECTION EXISTING PRIOR TO BEGINNING WORK, SEEDED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
6. ANY FIELD CHANGES WITHIN THE SCDOT R/W OR CHANGES THAT WOULD IMPACT SCDOT R/W WILL REQUIRE WRITTEN SCDOT APPROVAL PRIOR TO CHANGES BEING IMPLEMENTED IN THE FILED (I.E., DRAINAGE, GRADING, ACCESS DESIGN, ETC.).
7. UTILITY COMPANIES MUST SUBMIT UTILITY ENCROACHMENTS UNDER SEPARATE PERMITS FOR NEW CONNECTIONS OR RELOCATION OF EXISTING SERVICES. NO WORK CAN BEGIN WITHIN THE R/W WITHOUT AN APPROVED SCDOT ENCROACHMENT PERMIT FOR EACH UTILITY. MINIMUM COVER REQUIRED OVER PIPES WITHIN THE SCDOT R/W IS 42".

SIGHT DISTANCE - FOLLY ROAD	
SPEED LIMIT	45 M.P.H.
SIGHT DISTANCE REQUIRED (TABLE 7-13 SCDOT ARMS MANUAL)	575 FT.
SIGHT DISTANCE PROVIDED (LINE OF SIGHT LOOKING WEST)	1,000+ FT.
SIGHT DISTANCE PROVIDED (LINE OF SIGHT LOOKING EAST)	1,000+ FT.

NOTE: ALL TRAFFIC CONTROL DEVICES AND DRIVEWAYS SHOWN ON THIS PLAN SHALL CONFORM TO SCDOT ACCESS & ROADSIDE MANAGEMENT STANDARDS (ARMS MANUAL), LATEST EDITION AS WELL AS BE TO MUTCD STANDARDS (MANUAL OF UNIFORM TRAFFIC CONSTROL DEVICES).

NOTE: FOR ANY PORTION OF THE ADJACENT SCDOT TRAVEL LANE SURFACE THAT IS DAMAGED OR SAW-CUT DURING CONSTRUCTION, THE FULL WIDTH OF THE LANE SHALL BE MILLED 2" AND RESURFACED FOR THE LENGTH OF THE DAMAGE PLUS 10 FEET AT EACH END. NEW ASPHALT PAVEMENT TO MEET SCDOT STDS, SEE DETAIL SHEET FOR SCDOT PAVING SECTION.

NOTE: CONTRACTOR TO SEE SCDOT STANDARD DRAWING 610-030 & 610-205 FOR NIGHT TIME TRAFFIC CONTROL LANE AND SHOULDER CLOSURES FOR FOLLY ROAD (LANE CLOSURE RESTRICTED TO BETWEEN 10PM AND 6AM).



SITE PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

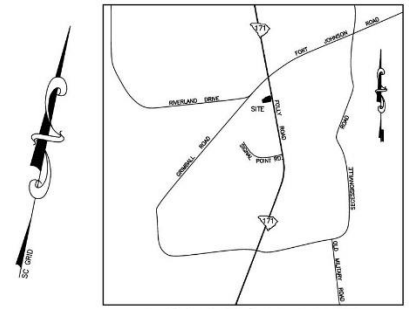
NOTE: CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AN AS-BUILT SURVEY OF THE SITE (TIED TO THE STATE PLANE COORDINATE SYSTEM), TO INCLUDE ALL WATER, SANITARY SEWER, & STORM DRAINAGE LINES, BOTH EXISTING AND PROPOSED. SURVEY SHALL ALSO INCLUDE THE PIPE SIZE, MATERIAL, AND INVERT ELEVATIONS, IN COMPLIANCE WITH ALL S.C.D.H.E.C, CITY OF CHARLESTON & C.W.S. STANDARDS FOR THEIR CERTIFICATIONS. DETENTION POND AS-BUILTS SHALL INCLUDE ALL CONTOURS AND SPOT ELEVATION INSIDE THE POND AS WELL AS THE OUTLET STRUCTURE WEIR ELEVATIONS AND SIZES AS REQUIRED BY OCRM.

NOTE: CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF ALL BUILDINGS, DRIVEWAYS, EXIT PORCHES, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. ALL DIMENSIONS SHOWN ARE TO OUTSIDE BUILDING WALL, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES WITH EACH UTILITY PROVIDER.

NOTE: ALL SIGNS REQUIRE A SEPARATE SIGN PERMIT, CONTACT ANA HARP – (843) 724-3755.

NOTE: CONTRACTOR SHALL CONTACT BRENDA KITTRELL AT THE CITY OF CHARLESTON TO SCHEDULE SILT FENCE AND CONSTRUCTION ENTRANCE INSPECTION PRIOR TO THE RELEASE OF THE BUILDING PERMIT – (843) 724-3782.

NOTE: CONTRACTOR TO NOTIFY OWNER IMMEDIATELY IF ANY ARCHEOLOGICAL MATERIALS OR HUMAN SKELETAL REMAINS ARE ENCOUNTERED PRIOR TO OR DURING CONSTRUCTION ON THIS SITE. ARCHEOLOGICAL MATERIALS CONSIST OF ANY ITEMS, FIFTY YEARS OLD OR OLDER, WHICH WERE MADE OR USED BY MAN. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO STONE PROJECTILES POINTS (ARROWHEADS), CERAMIC SHERDS, BRICK SCATTERS, WORKED WOOD, BONE AND STONE, ALONG WITH METAL AND GLASS OBJECTS.



LOCATION MAP

N.T.S.

GENERAL NOTES:

1. PROJECT DESCRIPTION: NEW CAR WASH AND SMALL PARKING LOT.
2. PERSONS USING THIS DRAWING SHOULD CONTACT THE LOCAL UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES.
3. ALL DIMENSIONS ARE TO/FROM EDGE OF PAVEMENT, OUTSIDE FACE OF BUILDING WALL OR FACE OF STAND UP CURB UNLESS NOTED OTHERWISE. MOUNTABLE CURB DIMENSIONS ARE TO BACK OF CURB. ALL RADIUS DIMENSIONS ARE 3', UNLESS NOTED OTHERWISE.
4. SITE IS LOCATED AT 1325 FOLLY ROAD (TMS #334-00-00-150), IN THE CITY OF CHARLESTON, CHARLESTON COUNTY, SOUTH CAROLINA AND CONTAINS 0.918 ACRES.
5. THIS PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE AE (ELEVATION 12) PER F.E.M.A. MAP COMMUNITY PANEL NUMBER 45019C 0679 J, DATED NOVEMBER 17, 2004.
6. PROPERTY ZONING: G.B. – GENERAL BUSINESS DISTRICT.
7. BUILDING SETBACKS: FRONT YARD = 0'
   SIDE YARD = 0'
   REAR YARD = 0'
8. BUFFERS: FRONT YARD = 25' CLASS II FOLLY ROAD BUFFER)
   SIDE YARD = 5' LANDSCAPE STRIP
   REAR YARD = 5' LANDSCAPE STRIP
9. HORIZONTAL DATUM FOR THIS PROJECT IS BASED ON A SURVEY BY FREELAND SURVEYORS, DATED JANUARY 16, 2020
10. ALL CONSTRUCTION TO CONFORM TO THE CITY OF CHARLESTON STANDARDS AND SPECIFICATIONS, LATEST EDITION.
11. NO MATERIALS SHALL BE BURIED ON SITE.
12. THE CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES, FIRE MARSHALL, AND OWNER'S REPRESENTATIVE PRIOR TO INTERRUPTION OF ANY UTILITY SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH AND ADHERENCE TO EACH UTILITY COMPANY'S AND FIRE MARSHALL'S REGULATIONS REGARDING SERVICE INTERRUPTION.
13. THE CONTRACTOR MUST PROTECT ALL LANDSCAPING AND OTHER FEATURES DESIGNATED TO REMAIN AND REPLACE SUCH ITEMS IF DISTURBED DURING CONSTRUCTION.
14. THE CONTRACTOR MUST PROTECT BENCH MARKS, PROPERTY CORNERS, AND ALL OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF A MARKER MUST BE REMOVED, IT SHALL BE REMOVED BY A LICENSED LAND SURVEYOR AND RELOCATED.
15. THE CONTRACTOR SHALL FIELD LOCATE, MARK AND PROTECT ALL EXISTING UTILITIES.
16. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AS-BUILT SURVEYS OF THE SITE UTILITIES (TIED TO THE STATE PLANE COORDINATE SYSTEM), TO INCLUDE ALL WATER, SANITARY SEWER, & STORM DRAINAGE LINES, BOTH EXISTING AND PROPOSED. SURVEY SHALL ALSO INCLUDE THE PIPE SIZE, MATERIAL, AND INVERT ELEVATIONS, VALVE CARDS AND VIDEO INSPECTIONS IN COMPLIANCE WITH ALL SCDHEC & CHARLESTON WATER SYSTEM (CWS), CHARLESTON ENGINEERING DEPARTMENT STANDARDS FOR THEIR CERTIFICATIONS. DETENTION POND AS-BUILTS SHALL INCLUDE ALL CONTOURS AND SPOT ELEVATION INSIDE THE POND AS WELL AS THE OUTLET STRUCTURE WEIR ELEVATIONS AND SIZES AS REQUIRED BY OCRM AND GOVERNING MS4.

LEGEND

EXISTING FEATURES	
EXISTING FENCE	
EASEMENTS/SETBACKS	
PROPOSED FEATURES	
EXISTING PROPERTY LINES	
PROPOSED BUILDING LINES	
CONCRETE SIDEWALK	
ASPHALT MULTI-USE PATH	
CONCRETE PAVEMENT	
SCDOT CONCRETE PAVEMENT	
DECORATIVE CONCRETE PAVERS	
EXISTING UTILITIES	
EXISTING/PROPOSED STORM SEWER	
PROPOSED STORM SEWER	
EXISTING CONTOUR	
PROPOSED CONTOUR	
PROPOSED SPOT ELEV.	+10.75
PROPOSED WATER SERVICES	1" DW
PROPOSED SANITARY SEWER SERVICE	6" DIP SS
TREE PROTECTION BARRICADE	TS TS
SILT FENCE	
LIMITS OF LAND DISTURBANCE	
EXISTING FEATURES TO BE REMOVED	

South Carolina 811 Call 811 Before you Dig
Know what's below. CALL before you dig.

SOUTH CAROLINA EMPIRE ENGINEERING, LLC NO. C03440 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21852 THOMAS M. DURANTE 9/8/20

CIVIL & STRUCTURAL CONSULTING ENGINEERS
4930 RIVERS AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29406
PHONE (843)308-0800
FAX (843)308-0806

EMPIRE ENGINEERING LLC

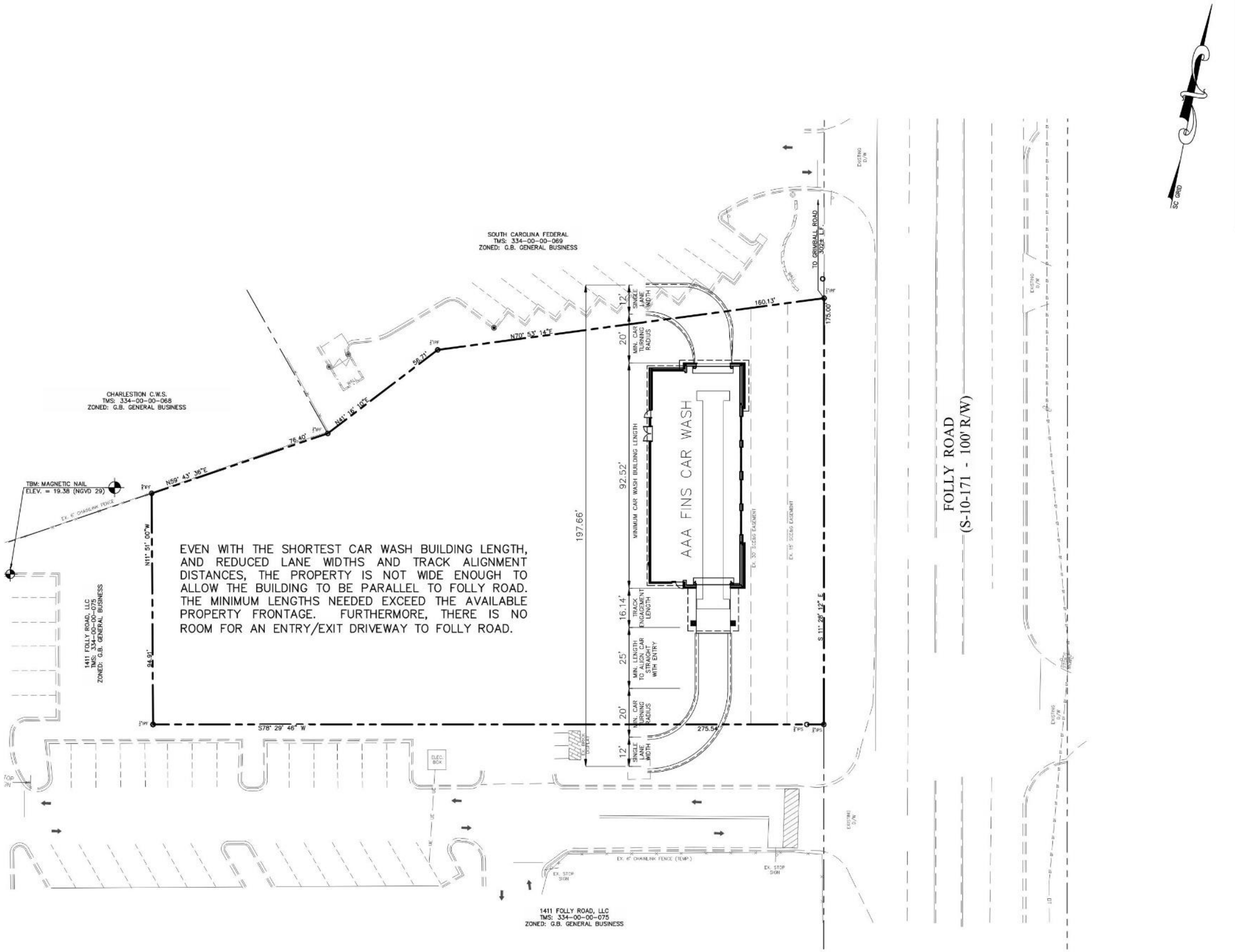
fins CAR WASH

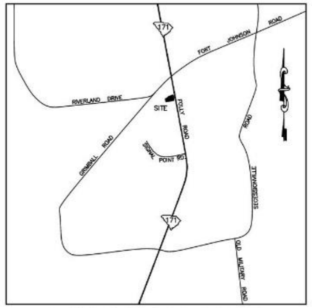
1325 FOLLY ROAD, CHARLESTON, SC 29412
CITY PROJECT ID: TRC-SP2020-T.B.D.

REVISION SCHEDULE			
NO.	DESCRIPTION	BY	DATE

DESIGNED:	T.M.D.
DRAWN:	T.M.D.
JOB NUMBER:	2019-125
DATE:	SEPTEMBER 8, 2020
CITY APPROVAL:	T.B.D.
SCALE:	1" = 20'

C-1A





LOCATION MAP
N.T.S.

BUILDING ROTATION EXHIBIT

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

South Carolina 811
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Know what's below.
CALL before you dig.

LEGEND

EXISTING FEATURES	
EXISTING FENCE	
EASEMENTS/SETBACKS	
PROPOSED FEATURES	
EXISTING PROPERTY LINES	
PROPOSED BUILDING LINES	
CONCRETE SIDEWALK	
ASPHALT MULTI-USE PATH	
CONCRETE PAVEMENT	
SCDOT CONCRETE PAVEMENT	
DECORATIVE CONCRETE PAVERS	
EXISTING UTILITIES	
EXISTING/PROPOSED STORM SEWER	
PROPOSED STORM SEWER	
EXISTING CONTOUR	10
PROPOSED CONTOUR	10
PROPOSED SPOT ELEV.	+10.75
PROPOSED WATER SERVICES	1" DW
PROPOSED SANITARY SEWER SERVICE	6" DIP SS
TREE PROTECTION BARRICADE	TS
SILT FENCE	
LIMITS OF LAND DISTURBANCE	
EXISTING FEATURES TO BE REMOVED	

SOUTH CAROLINA
EMPIRE ENGINEERING, LLC
NO. C02440
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 31852
THOMAS M. DURANTE
9/8/20

CIVIL & STRUCTURAL CONSULTING ENGINEERS

4930 RIVERS AVENUE
NORTH CHARLESTON,
SOUTH CAROLINA 29406

PHONE (843)308-0800
FAX (843)308-0806

EMPIRE ENGINEERING LLC

fins CAR WASH

1325 FOLLY ROAD, CHARLESTON, SC 29412
CITY PROJECT ID: TRC-SP2020-T.B.D.

REVISION SCHEDULE

NO.	DESCRIPTION	BY	DATE

DESIGNED:	T.M.D.
DRAWN:	T.M.D.
JOB NUMBER:	2019-125
DATE:	SEPTEMBER 8, 2020
CITY APPROVAL:	T.B.D.
SCALE:	1" = 20'

C-1C

PREVIOUS SUBMISSION

GENERAL NOTES:

1. Base information including streets, right-of-ways, lot lines, underground utilities and topography obtained from site survey by Empire Engineering, LLC titled "AAA Go Clean Car Wash, 1325 Folly Road, City of Charleston, Charleston County, South Carolina for MPV Properties, LLC" dated May 6, 2020. PointSouth Planning & Design, LLC assumes no responsibilty for the accuracy of this information.

2. Base information is approximate. The location of all site elements to be verified in field prior to commencement of work.

3. The Contractor is responsible for contacting the cable locator service, (888) 721-7877 to locate all existing underground electrical and telephone utitilities prior to construction. Contractor to have these lines located and marked prior to beginning work.

4. The Contractor shall use extreme caution in areas where additional underground utilitites may exist. The Contractor shall be responsible for all damage to existing utilities, both known and unknown. Contractor shall exercise industry standard safety practices while working near vehicular traffic.

5. The Contractor shall verify plans in the field and notify landscape architect of any discrepancies prior to beginning construction.

6. The Contractor is responsible for providing all necessary licenses and insurance to complete work.

7. All areas disturbed by construction inside or outside the Limit of Work Line shall be repaired, graded and sodded.

8. Limit of Work Line is property line unless otherwise noted.

9. All existing trees to be saved shall have tree barricades installed around them prior to commencement of work. All work inside tree barricades to be performed by hand. Barricades to be maintained and kept in place at all times.

10. Provide erosion control where slopes are greater than 3:1 and where erosion continues to re-occur.

11. The Contractor is to install silt-fence or hay bale barricade around all existing drainage structures prior to commencement of work.

PLANTING NOTES

1. Tree plantings and bedlines shall be staked in field by Landscape Contractor for Landscape Architect's approval prior to installation. Landscape Architect reserves the right to make adjustments to planting locations as necessary.

2. Add hardwood mulch to all planting beds at a depth of 4 inches.

3. See details indicating planting methods and Plant Schedule on Sheet L-2.

4. Landscape Contractor is responsible for maintaining all installed plants and lawn areas until issuance of Written Certificate of Final Completion.

6. Apply weed germination inhibitor ("Preen or equal) to all planting bed areas.

7. All tree, shrub & groundcover material shall be planted within 24 hours after delivery.

8. Landscape Contractor shall make all arrangements for temporary irrigation system services, permits, and fees as needed.

9. Irrigation system to include spray heads for all lawn areas. Drip irrigation to be provided for all plant beds and installed trees (see Watering Schedule notes below).

10. Landscape Contractor to submit shop drawings of proposed irrigation system to Landscape Architect for review and approval prior to construction.

11. Plant material list is prepared for estimating purposes only. Contractors to prepare own quantity takeoffs using drawings to their satisfaction, reporting any discrepancies which may affect bidding to Landscape Architect.

12. Nursery tags to remain on plant material is approved by Landscape Architect.

13. Contractor to provide adequate protection for all grand trees located on site.

14. One Sabal Palm to count as replacement for existing Sabal Palm to be removed.

ADDITIONAL NOTES

1. Mitigation Notes:
   -The Department of Parks requires an "inch for inch" mitigation for approved canopy street tree removals. Approved removals of palmettos will be "tree for tree". Trees should be planted in accordance with the City's Street Tree Manual.
   -The Department of Parks requires a "three to one" mitigation for unapproved canopy street tree and palmettto street tree removals. Trees should be planted in the same development if possible and should be planted in accordance with the City's Street Tree Manual. If all inches cannot be planted within the same development then a contribution to the street tree mitigation fund will suffice.

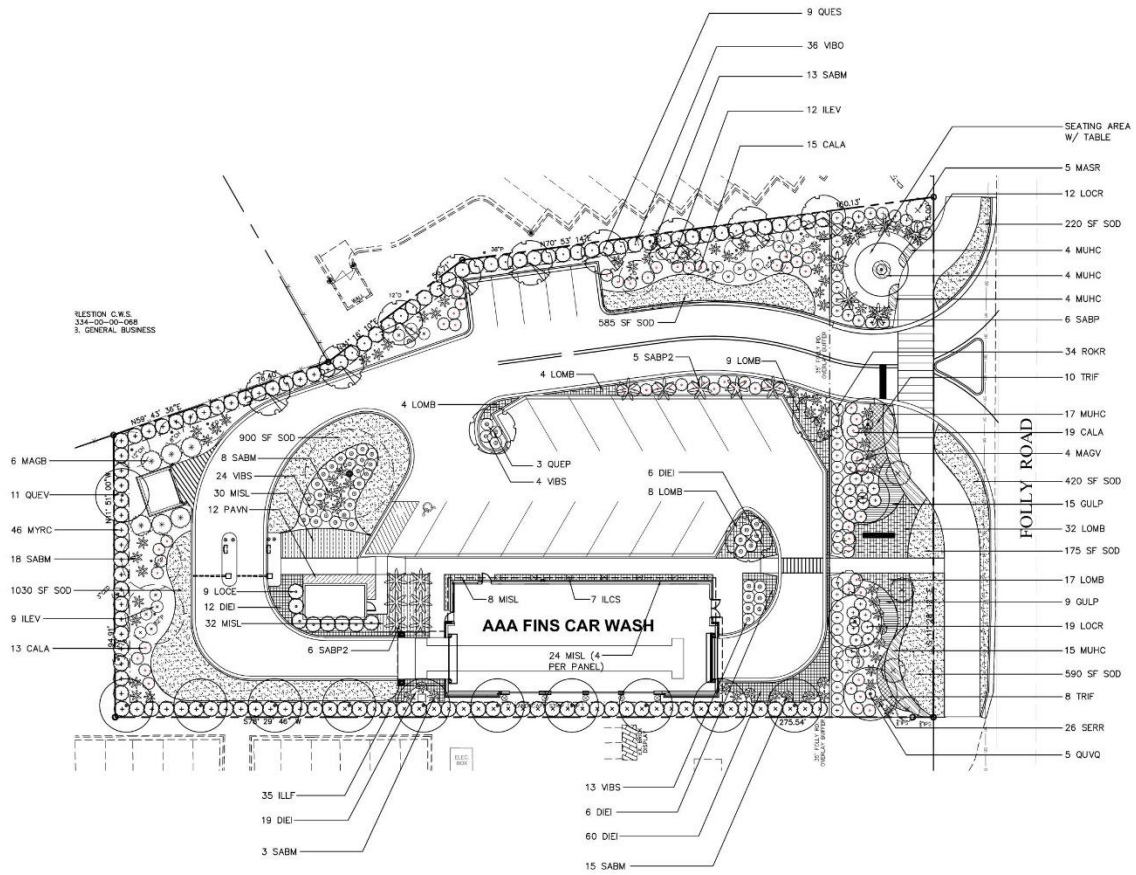
2. Guarantee Statement:
   - Trees with a caliper of 2" to 3.5" will be required to have a one (1) year warranty
   - Trees with a caliper of 4" to 6" will be required to have a two (2) year warranty
   - Trees with a caliper larger than 6" will be required to have a three (3) year warranty
   - Palmettos will be required to have a two (2) year warranty
   - Warranty periods begin at acceptance of street trees by the City of Charleston's Department of Parks

3. Watering Schedule: trees shall be watered from installation through the completion of the warranty period
   -2 to 4 inch caliper:
   2-3 gallons per inch of caliper daily for 1 month
   2-3 gallons per inch of caliper every other day for 2-3 months
   2-3 gallons per inch of caliper weekly for two (2) months
   Additional watering as needed through first year

   -Palmettos:
   Watering is based on the average daily temperatures and soil type at the location. Water tree by flooding saucer and allowing water to perk in and then flood again, or put a hose on slow drip and saturate soil completely.

   Temperature:
   0-55 = no watering needed
   55-70 = water one (1) time per week
   70-85 = water two (2) times per week
   85 & up = water four (4) times per week

4. Trees planted in the right-of-way must meet the ANLA Nursery Stock Standards, and species selection must be approved by the Department of Parks. The City reserves the right to reject any street tree deemed to be unacceptable.



BUFFERYARD REQUIREMENT TABLE

LOCATION/BUFFER TYPE	PLANTS REQ.	PLANTS PROVIDED
Folly Road.: (175 LF): Class II, 25' Width	Canopy Trees: 4 Understory Trees: 9 Shrubs: 105	Canopy Trees: 5 Understory Trees: 9 Shrubs: 110
Perimeter Buffer (664 LF): 5' Width, 1 Shade Tree per 25', Continuous Hedge	Canopy Trees: 27 Understory Trees: N/A Shrubs: Continuous	Canopy Trees: 20 (Balance in Ex.) Understory Trees: N/A Shrubs: Continuous

PLANTING PLAN

North

0 10' 20' 40' 80'

Scale: 1" = 20'

State of South Carolina Registered Landscape Architect No. 579 Robert W. McGuire, Sr.

Point South Planning & Design, LLC
1632 Grey Marsh Rd.
Mt. Pleasant, SC 29466
Phone: (843) 530-6300

Prepared for:
MPV Properties, LLC

Landscape Enhancements for:
AAA GO CLEAN CAR WASH
1325 Folly Road
Charleston, South Carolina

Date: April 28, 2020
Drawn by:
Checked by:

Revision	Date

AAA Go Clean Car Wash
Planting Plan
Project No: 020119.00

L-1
Sheet 1 of 2

GENERAL NOTES:

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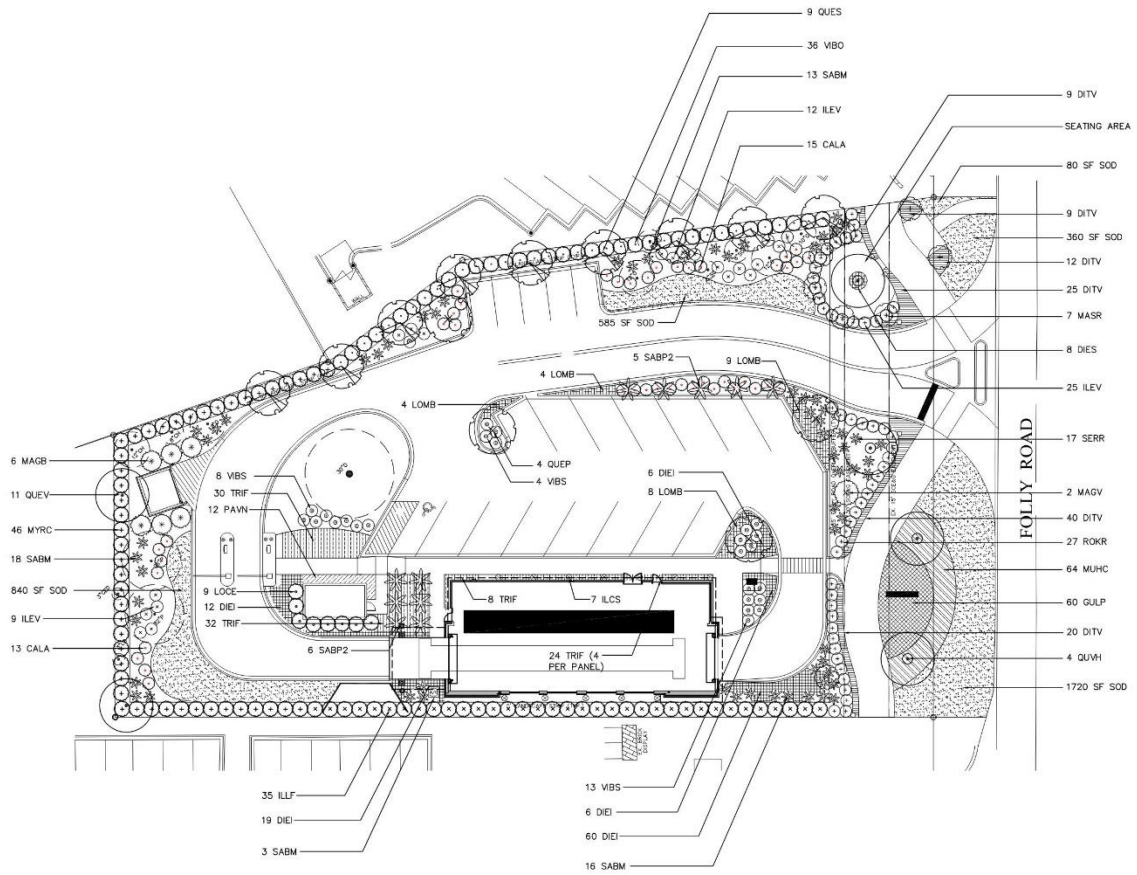

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PLANTING PLAN

North

0 10' 20' 40' 80'

Scale: 1" = 20'

Point South Planning & Design, LLC
1632 Grey Marsh Rd.
Mt. Pleasant, SC 29466
Phone: (843) 530-6300

Prepared for:
MPV Properties, LLC

Landscape Enhancements for:
AAA GO CLEAN CAR WASH
1325 Folly Road
Charleston, South Carolina

Date: April 28, 2020
Drawn by:
Checked by:

Revision	Date
Rev. per TRC	8/25/20

AAA Go Clean Car Wash
Planting Plan
Project No: 020119.00

L-1
Sheet 1 of 2

PREVIOUS SUBMISSION

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1. Base information including streets, right-of-ways, lot lines, underground utilities and topography obtained from site survey by Empire Engineering, LLC titled "AAA Go Clean Car Wash, 1325 Folly Road, City of Charleston, Charleston County, South Carolina for MPV Properties, LLC" dated May 6, 2020. PointSouth Planning & Design, LLC assumes no responsibilty for the accuracy of this information.

2. Base information is approximate. The location of all site elements to be verified in field prior to commencement of work.

3. The Contractor is responsible for contacting the cable locator service, (888) 721-7877 to locate all existing underground electrical and telephone utitilities prior to construction. Contractor to have these lines located and marked prior to beginning work.

4. The Contractor shall use extreme caution in areas where additional underground utilitites may exist. The Contractor shall be responsible for all damage to existing utilities, both known and unknown. Contractor shall exercise industry standard safety practices while working near vehicular traffic.

5. The Contractor shall verify plans in the field and notify landscape architect of any discrepancies prior to beginning construction.

6. The Contractor is responsible for providing all necessary licenses and insurance to complete work.

7. All areas disturbed by construction inside or outside the Limit of Work Line shall be repaired, graded and sodded.

8. Limit of Work Line is property line unless otherwise noted.

9. All existing trees to be saved shall have tree barricades installed around them prior to commencement of work. All work inside tree barricades to be performed by hand. Barricades to be maintained and kept in place at all times.

10. Provide erosion control where slopes are greater than 3:1 and where erosion continues to re-occur.

11. The Contractor is to install silt-fence or hay bale barricade around all existing drainage structures prior to commencement of work.

PLANTING NOTES

1. Tree plantings and bedlines shall be staked in field by Landscape Contractor for Landscape Architect's approval prior to installation. Landscape Architect reserves the right to make adjustments to planting locations as necessary.

2. Add hardwood mulch to all planting beds at a depth of 4 inches.

3. See details indicating planting methods and Plant Schedule on Sheet L-2.

4. Landscape Contractor is responsible for maintaining all installed plants and lawn areas until issuance of Written Certificate of Final Completion.

6. Apply weed germination inhibitor ("Preen or equal) to all planting bed areas.

7. All tree, shrub & groundcover material shall be planted within 24 hours after delivery.

8. Landscape Contractor shall make all arrangements for temporary irrigation system services, permits, and fees as needed.

9. Irrigation system to include spray heads for all lawn areas. Drip irrigation to be provided for all plant beds and installed trees (see Watering Schedule notes below).

10. Landscape Contractor to submit shop drawings of proposed irrigation system to Landscape Architect for review and approval prior to construction.

11. Plant material list is prepared for estimating purposes only. Contractors to prepare own quantity takeoffs using drawings to their satisfaction, reporting any discrepancies which may affect bidding to Landscape Architect.

12. Nursery tags to remain on plant material is approved by Landscape Architect.

13. Contractor to provide adequate protection for all grand trees located on site.

14. One Sabal Palm to count as replacement for existing Sabal Palm to be removed.

ADDITIONAL NOTES

1. Mitigation Notes:
   -The Department of Parks requires an "inch for inch" mitigation for approved canopy street tree removals. Approved removals of palmettos will be "tree for tree". Trees should be planted in accordance with the City's Street Tree Manual.
   -The Department of Parks requires a "three to one" mitigation for unapproved canopy street tree and palmettto street tree removals. Trees should be planted in the same development if possible and should be planted in accordance with the City's Street Tree Manual. If all inches cannot be planted within the same development then a contribution to the street tree mitigation fund will suffice.

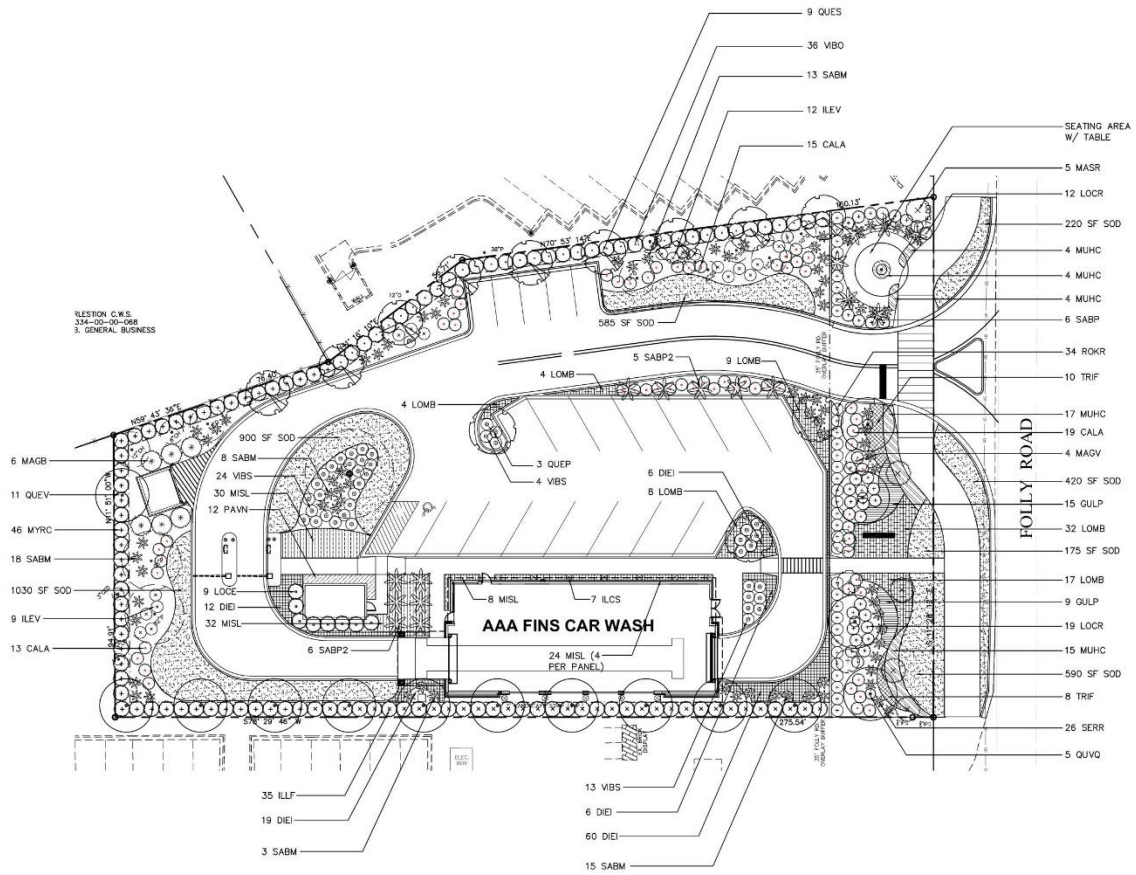
2. Guarantee Statement:
   - Trees with a caliper of 2" to 3.5" will be required to have a one (1) year warranty
   - Trees with a caliper of 4" to 6" will be required to have a two (2) year warranty
   - Trees with a caliper larger than 6" will be required to have a three (3) year warranty
   - Palmettos will be required to have a two (2) year warranty
   - Warranty periods begin at acceptance of street trees by the City of Charleston's Department of Parks

3. Watering Schedule: trees shall be watered from installation through the completion of the warranty period
   -2 to 4 inch caliper:
   2-3 gallons per inch of caliper daily for 1 month
   2-3 gallons per inch of caliper every other day for 2-3 months
   2-3 gallons per inch of caliper weekly for two (2) months
   Additional watering as needed through first year

   -Palmettos:
   Watering is based on the average daily temperatures and soil type at the location. Water tree by flooding saucer and allowing water to perk in and then flood again, or put a hose on slow drip and saturate soil completely.

   Temperature:
   0-55 = no watering needed
   55-70 = water one (1) time per week
   70-85 = water two (2) times per week
   85 & up = water four (4) times per week

4. Trees planted in the right-of-way must meet the ANLA Nursery Stock Standards, and species selection must be approved by the Department of Parks. The City reserves the right to reject any street tree deemed to be unacceptable.



BUFFERYARD REQUIREMENT TABLE

LOCATION/BUFFER TYPE	PLANTS REQ.	PLANTS PROVIDED
Folly Road.: (175 LF): Class II, 25' Width	Canopy Trees: 4 Understory Trees: 9 Shrubs: 105	Canopy Trees: 5 Understory Trees: 9 Shrubs: 110
Perimeter Buffer (664 LF): 5' Width, 1 Shade Tree per 25', Continuous Hedge	Canopy Trees: 27 Understory Trees: N/A Shrubs: Continuous	Canopy Trees: 20 (Balance in Ex.) Understory Trees: N/A Shrubs: Continuous

PLANTING PLAN

North

0 10' 20' 40' 80'

Scale: 1" = 20'

State of South Carolina Registered Landscape Architect No. 579 Robert W. McGuire, Sr.

Point South Planning & Design, LLC
1632 Grey Marsh Rd.
Mt. Pleasant, SC 29466
Phone: (843) 530-6300

Prepared for:
MPV Properties, LLC

Landscape Enhancements for:
AAA GO CLEAN CAR WASH
1325 Folly Road
Charleston, South Carolina

Date: April 28, 2020
Drawn by:
Checked by:

Revision	Date

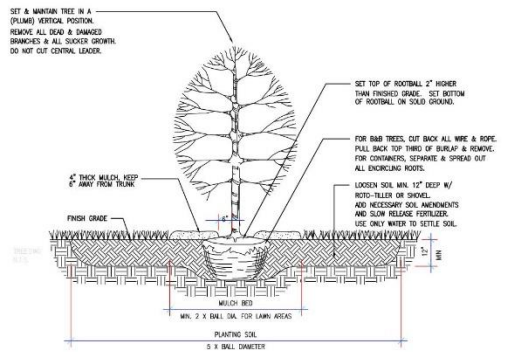
AAA Go Clean Car Wash
Planting Plan
Project No: 020119.00

L-1
Sheet 1 of 2

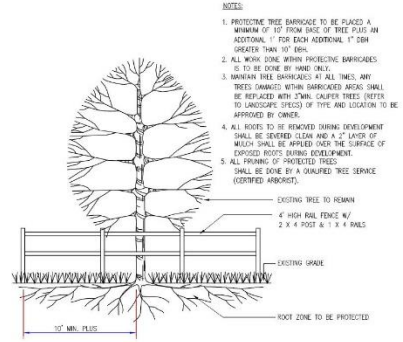
PLANT SCHEDULE

SYM	QTY	ABBRV	BOTANICAL/COMMON	HEIGHT	SPREAD	CONT.	CAL/SPACING	NOTES
TREES								
	6	MAGB	Magnolia grandiflora 'Brackens Brown' Brackens Brown Magnolia	10'	4–6'	B&B	–	Full & well-formed, branched to ground
	2	MAGV	Magnolia virginiana Sweetbay Magnolia	8'	4–6'	B&B	–	Full & well-formed, multi-stemmed
	7	MASR	Magnolia soulangiana 'Rustica Rubra' Saucer Magnolia	8'	4–6'	B&B	–	Full & well-formed, multi-stemmed
	3	QUEP	Quercus phellos Willow Oak	8–10'	6–8	B&B	2.5" Cal.	Full & well-formed
	9	QUES	Quercus shumardii Shumard Oak	8–10'	6–8	B&B	2.5" Cal.	Full & well-formed
	11	QUEV	Quercus virginiana Live Oak	8–10'	6–8	B&B	2.5" Cal.	Full & well-formed
	4	QUVH	Quercus virginiana 'Highrise' High Rise Live Oak	8–10'	6–8	B&B	2.5" Cal.	Full & well-formed
	11	SABP	Sabal palmetto Sabal Palm	12'	——	B&B	——	Booted
SHRUBS								
	28	CALA	Callicarpa americana American Beautyberry	2–3'	2–3'	3 Gal.		
	25	ILVE	Ilex verticillata 'Red Sprite' Red Sprite Winterberry Holly	2–3'	2–3'	3 Gal.		
	21	ILVO	Ilex vomitoria Yaupon Holly	2–3'	2–3'	3 Gal.		
	35	ILLF	Illicium floridanum Florida Anise Tree	2–3'	2–3'	3 Gal.		
	7	ILCS	Ilex crenata 'Sky Pencil' Sky Pencil Holly	4–5'	2–3'	15 Gal.		
	9	LOCE	Loropetalum chinensis 'Ever Red' Ever Red Loropetalum	2–3'	2–3'	3 Gal.		Pink flower
	46	MYRC	Myrica cerifera Wax Myrtle	2–3'	2–3'	3 Gal.		
	27	ROKR	Rosa knockout 'Red' Red Knockout Rose	2–3'	2–3'	3 Gal.		Red flower
	50	SABM	Sabal minor Dwarf Palmetto	2–3'	2–3'	3 Gal.		
	17	SERR	Serenoa repens Saw Palm	2–3'	2–3'	3 Gal.		
	25	VIBS	Viburnum suspensum Sandankwa Viburnum	2–3'	2–3'	3 Gal.		
	36	VIBO	Viburnum odoratissimum Sweet Viburnum	2–3'	2–3'	3 Gal.		
GROUNDCOVER / ORNAMENTAL GRASSES								
	111	DIEI	Dietes iridoides African Lily	–	–	1 Gal.	24" o.c.	
	115	DITV	Dianella tasmanica 'Variegata' African Lily	–	–	1 Gal.	24" o.c.	
	60	GULP	Guara lindheimer 'Pink' Pink Guara	–	–	1 Gal.	–	Pink flower
	25	LOMB	Lomandra 'Breeze' Lomandra Breeze Grass	–	–	1 Gal.	36" o.c.	
	64	MUHC	Muhlenbergia capilaris Gulf Pink Sweet Grass	–	–	1 Gal.	36" o.c.	
	12	PAVN	Panicum virgatum 'Northwind' Northwind Switch Grass	–	–	1 Gal.	36" o.c.	
	94	TRIF	Tripsacum floridanum Dwarf Fakahatchee Grass	–	–	1 Gal.	36" o.c.	
LAWN								
3585 SF		SOD	Eremochloa ophiuroides Centipede Grass					

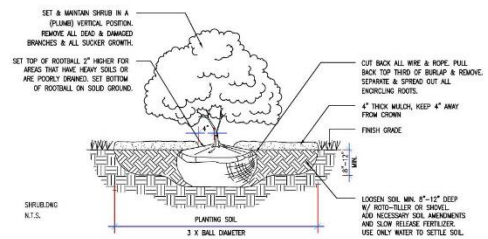
Contractor Notes: 1. Plant material list was prepared for estimating purposes only. All contractors to make their own quantity takeoffs using drawings to determine quantities to their satisfaction, reporting promptly any discrepancies which may affect bidding.



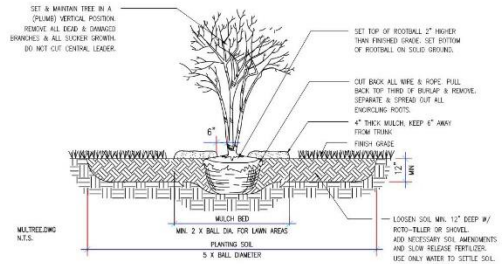
1 L-2 TREE PLANTING DETAIL
Not to Scale



2 L-2 PROTECTIVE TREE BARRICADE
Not to Scale



3 L-2 SHRUB PLANTING DETAIL
Not to Scale



4 L-2 ORNAMENTAL TREE PLANTING DETAIL
Not to Scale

PLANT SCHEDULE & DETAILS

State of South Carolina
No. 579
Registered Landscape Architect

Point South
Planning & Design, LLC
162 Grey Marsh Rd.
Mt. Pleasant, SC 29466
Phone: (843) 530-6300

Prepared for:
MPV Properties, LLC

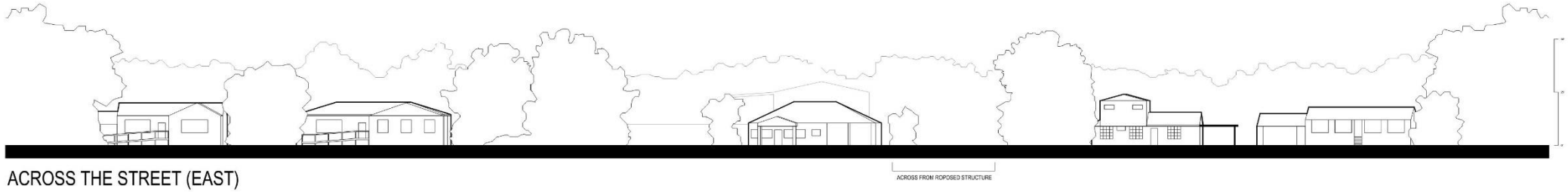
Landscape Enhancements for:
AAA GO CLEAN CAR WASH
1325 Folly Road
Charleston, South Carolina

Date: April 28, 2020
Drawn by:
Checked by:

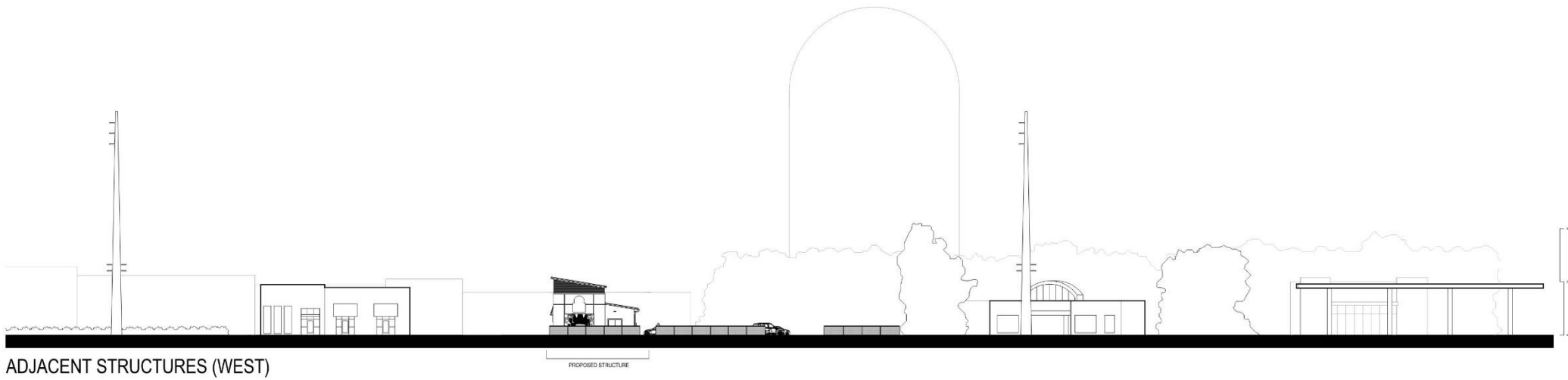
Revision	Date
Rev. per TRC	8/25/20

AAA Go Clean Car Wash
Plant Schedule / Details
Project No: 020119.00

L-2
Sheet 2 of 2



ACROSS THE STREET (EAST)



ADJACENT STRUCTURES (WEST)

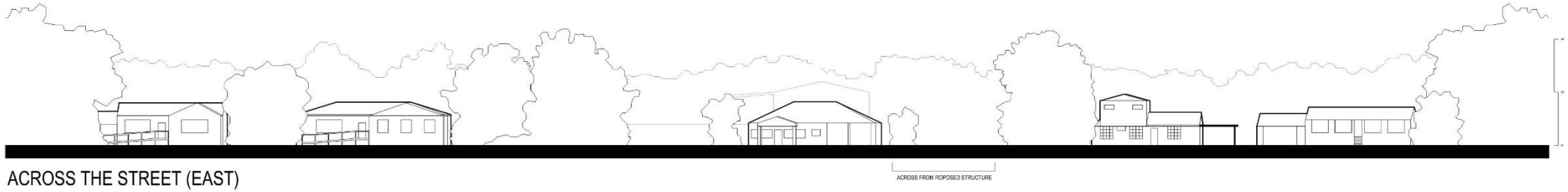
STREETSCAPE ELEVATIONS

SCALE: 3/64" = 1'-0"

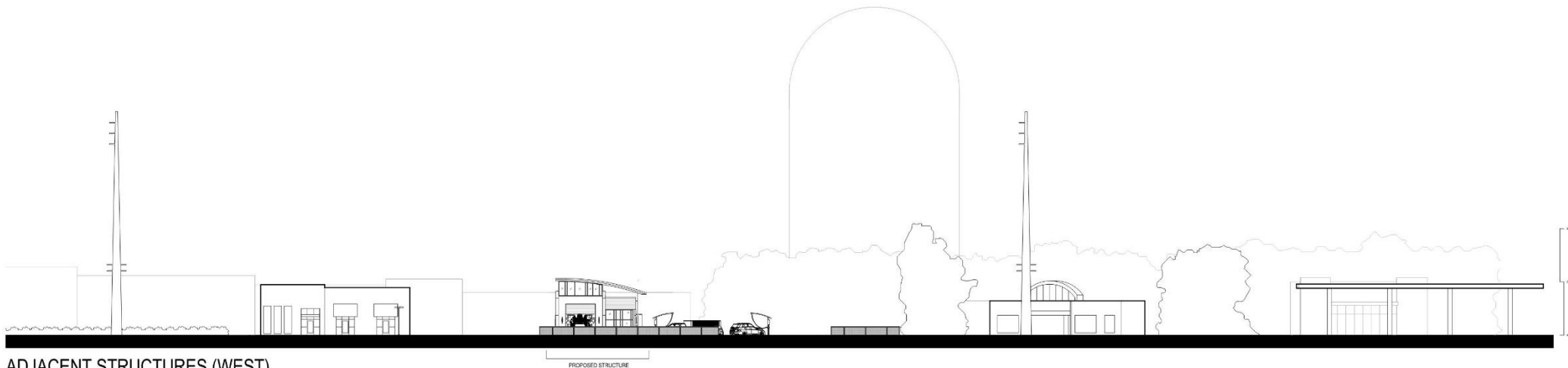
PREVIOUS SUBMISSION

FINS CAR WASH

STREETSCAPE ELEVATIONS - PREV



ACROSS THE STREET (EAST)



ADJACENT STRUCTURES (WEST)

STREETSCAPE ELEVATIONS

SCALE: 3/64" = 1'-0"

FINS CAR WASH

STREETSCAPE ELEVATIONS

East

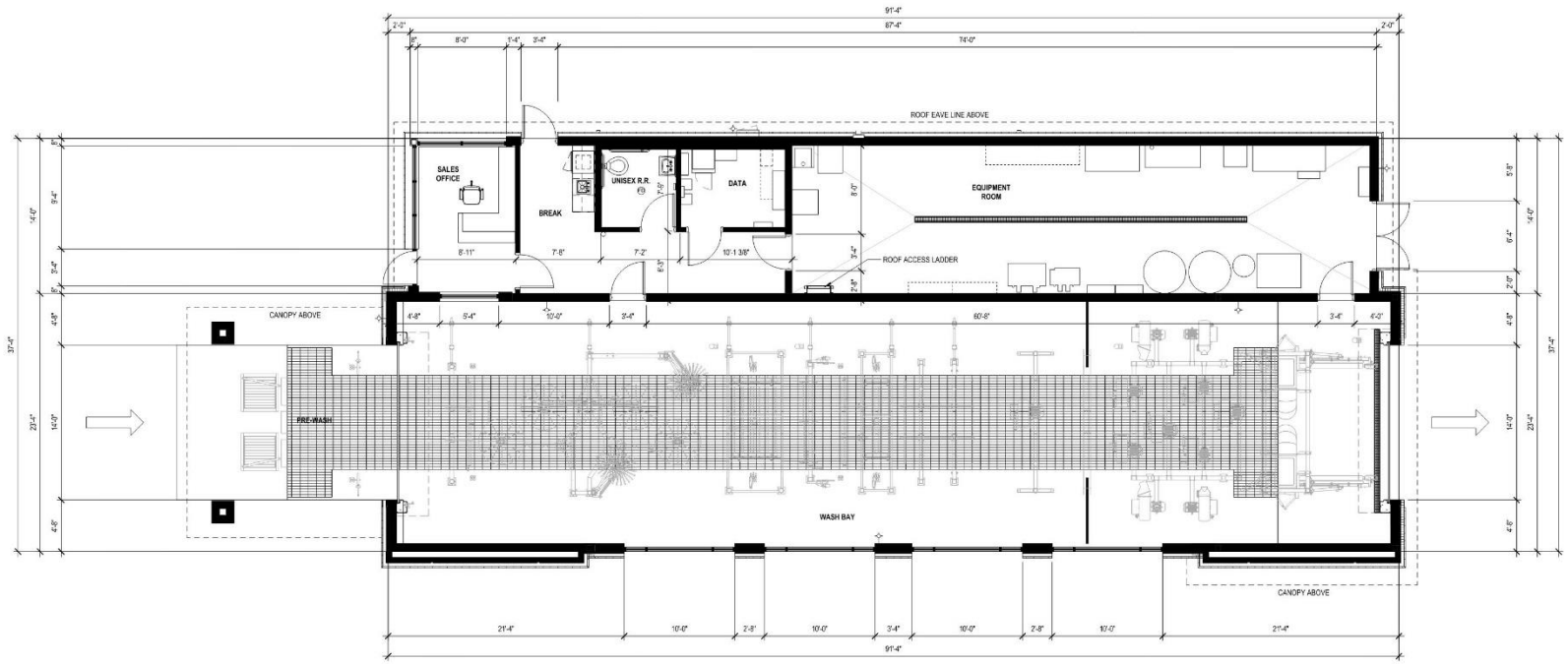
West


COFFEE


Publix


AVAILABLE
Q&A
45


CHARLESTON
CPW

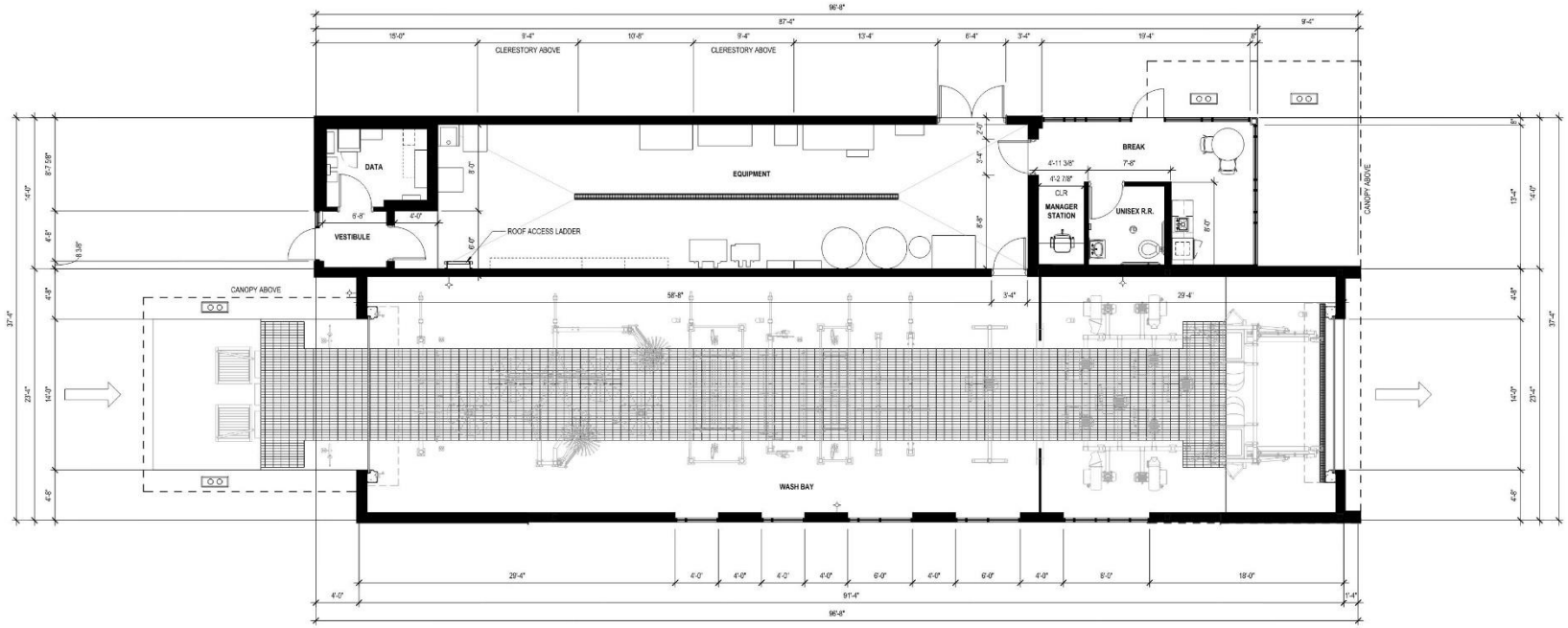


SF = 3,428

PROPOSED BUILDING FLOOR PLAN
SCALE: 3/16" = 1'-0"

PREVIOUS SUBMISSION

BUILDING FLOOR PLAN - PREV



SF = 3,428

PROPOSED BUILDING FLOOR PLAN
SCALE: 3/16" = 1'-0"

PREVIOUS SUBMISSION

FINS CAR WASH

CONCEPTUAL RENDERING - PREV

FINS CAR WASH

CONCEPTUAL RENDERING 1

FINS CAR WASH

CONCEPTUAL RENDERING 2

1 PREVIOUS EAST BUILDING ELEVATION
SCALE: 3/16" = 1'-0"

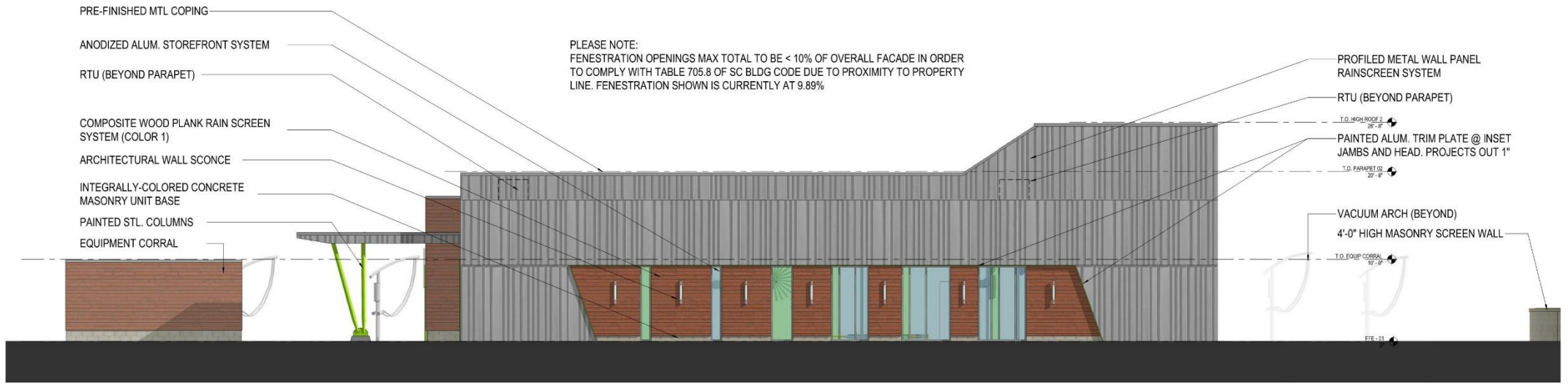
PREVIOUS SUBMISSION

2 EAST BUILDING ELEVATION
SCALE: 3/16" = 1'-0"

EAST BUILDING ELEVATION

1 PREVIOUS SOUTH BUILDING ELEVATION
SCALE: 3/16" = 1'-0"

PREVIOUS SUBMISSION



2 SOUTH BUILDING ELEVATION 02
SCALE: 3/16" = 1'-0"

FINS CAR WASH

SOUTH BUILDING ELEVATION

1 PREVIOUS WEST BUILDING ELEVATION
SCALE: 3/16" = 1'-0"

PREVIOUS SUBMISSION

2 WEST BUILDING ELEVATION
SCALE: 3/16" = 1'-0"

1 PREVIOUS NORTH BUILDING ELEVATION
SCALE: 3/16" = 1'-0"

PREVIOUS SUBMISSION

2 NORTH BUILDING ELEVATION 02
SCALE: 3/16" = 1'-0"

FINS CAR WASH

NORTH BUILDING ELEVATION

COMPOSITE WOOD PLANK RAINSCREEN

COLOR 1: IPE

(COPING TO MATCH "CHROMIUM GRAY" OF METAL PANELS)

COLOR 2: CASTLE GRAY

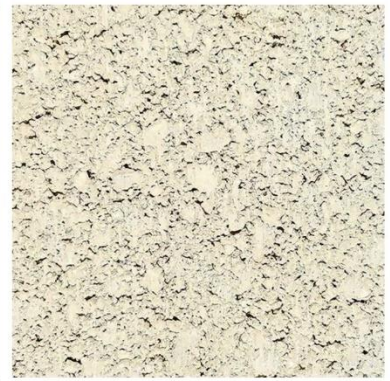
(COPING TO MATCH "CHROMIUM GRAY" OF METAL PANELS)

PROFILED METAL WALL PANEL RAINSCREEN

COLOR: CHROMIUM GRAY

(COPING TO MATCH)

INTEGRALLY COLORED CONCRETE MASONRY UNITS



8 X 16
SMOOTH FACE
COLOR: LUMINOUS SEA SALT

ALUMINUM STOREFRONT SYSTEM

COLOR: CLEAR ANODIZED

ALUMINUM TRIM + PAINTED STEEL

COLOR: PMS #375 GREEN

ARCHITECTURAL WALL SCONCES

BROWNLEE LIGHTING
"BEAM" FIXTURE 34"
COLOR:"GUNMETAL"

Agenda Item #4

1400 OLD TOWNE RD.
TMS #415-00-00-051,002

Request preliminary approval for the site plan only for a new County park.
(Buildings reviewed separately)

OLD TOWNE CREEK COUNTYPARK
PRELIMINARY SITE DESIGN

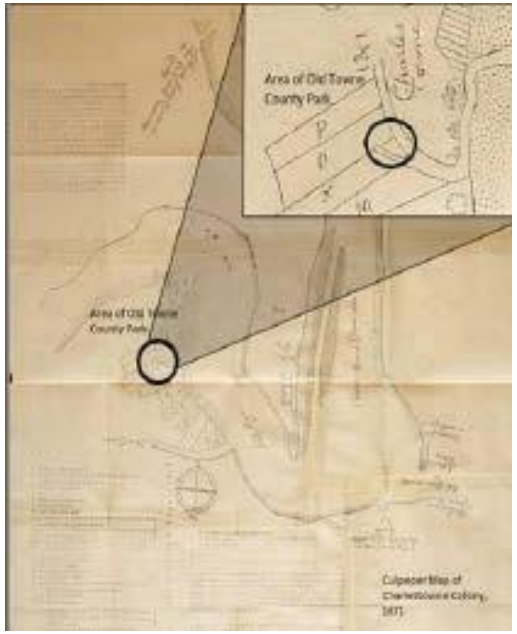
1400 OLD TOWNE ROAD
CHARLESTON, SC

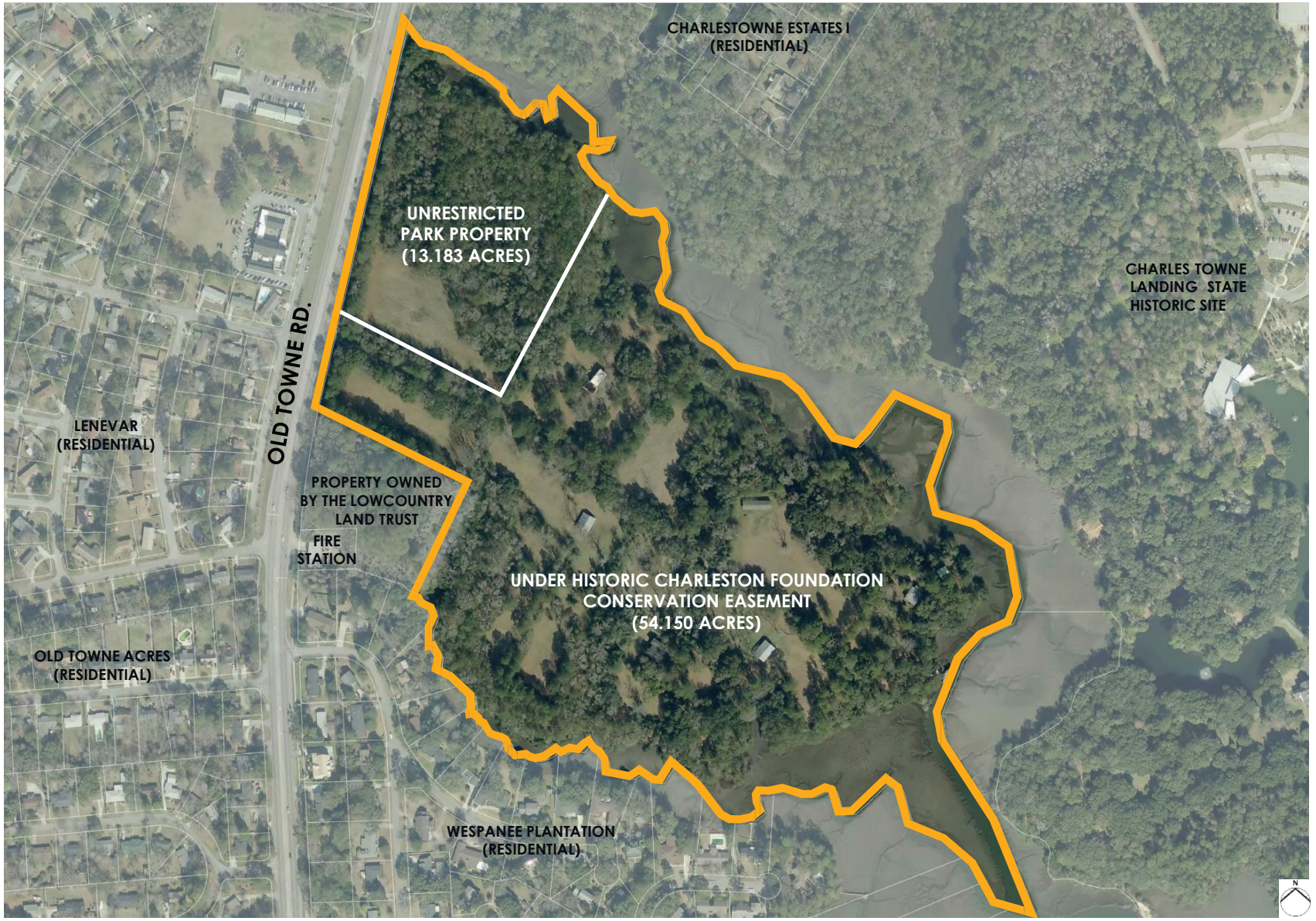
AUGUST 26, 2020

Stantec

CHARLESTON COUNTY PARK & RECREATION COMMISSION

TABLE OF CONTENTS


Area of Old Towne
County Park
Culpeper Map of
Charlottsville Colony,
1871


CHARLESTOWNE ESTATES I
(RESIDENTIAL)
UNRESTRICTED
PARK PROPERTY
(13.183 ACRES)
CHARLES TOWNE
LANDING STATE
HISTORIC SITE
OLD TOWNE RD.
LENEVAR
(RESIDENTIAL)
PROPERTY OWNED
BY THE LOWCOUNTRY
LAND TRUST
FIRE
STATION
UNDER HISTORIC CHARLESTON FOUNDATION
CONSERVATION EASEMENT
(54.150 ACRES)
OLD TOWNE ACRES
(RESIDENTIAL)
WESPANEE PLANTATION
(RESIDENTIAL)
N


EVENTS PAVILION
MAIN ENTRANCE
HISTORIC GATES
RAIN HUT / LEARNING CENTER HUB
HISTORIC ALLEE
STABLE 1
MAINTENANCE HUB
CARETAKER'S HOUSE
MAIN HOUSE
STABLE 2
DOCK
N

DRB CONCEPTUAL COMMENTS - 2/19/2019

1. The landscape conceptual plan looks good. Start to develop and detail the plan much further at the next review. Include the entries.
   UPDATE: Landscape plans refined in all areas.
2. Label the buildings on every site plan. Be consistent with the names.
   UPDATE: Corrected
3. The masterplan is different than the blow-up site plans.
   UPDATE: The Master Plan and Overall Site Plan have been coordinated.
4. The layout for the new park entrance is a little under whelming with just a rail fence and monument signs on the fence. Further study the entries.
   UPDATE: Entry sequence for pedestrian and vehicular have been studied and refined
5. For the blow up site plans, the applicant is highlighting each different building per section, Check for the correct highlighted buildings on all sheets.
   UPDATE: Corrected
6. Staff would like to see details for the butterfly arbor at the next submittal.
   UPDATE: The Butterfly Arbor has been removed from the project. In it's place is a play/sensory garden.
7. Show the extents of the H/C ramp at the rain hut in the plan views.
   UPDATE: The Rainhut ramp and connection to the its surroundings is addressed in the site plan and landscape plan
8. At the preliminary review: delineate between various paving types.
   UPDATE: Landscape and hardscape types refined.
9. Show all at grade or slightly raised mechanical on the plans and provide screen fencing and details for all.
10. Study water management plan for the buildings and study plants under roof lines
    UPDATE: Water management refined.
11. Provide details of how the existing gate will be restricted.
    UPDATE: See Pedestrian Entry Plans for details of the existing gate.
12. Study wayfinding system.
    UPDATE: Wayfinding system is provided in submittal.
13. Center entry at Rain Hut on the gable.
14. Detail barn door at learning center.
15. Study and develop the building trim and window depth on the new buildings.

DRB - BUILDING PRELIMINARY COMMENTS - 06.15.2020

EVENTS PAVILION

1. Staff likes the design and detailing of the event pavilion.
2. It appears the mechanical on the NE side of the building is screen on two sides, but not the side away from the building, but should be.
3. The landscape plans look nice and the applicant is providing an ample amount and we like all the use of pollinators.
4. DRB would normally like to see by preliminary review, a plant list that calls out the plant labels on the landscape plan. I list was provided but does not call out the plant labels.
   UPDATE: Full landscape plans w/ plant schedules are provided for all areas.
5. Be consistent with the building names (called Restrooms and Program Center on Master Plan but called Learning Center on the blow up plans.) Not changed since last reviewed.
   UPDATE: A revised master plan has been provided with the Preliminary Site Design submittal.

Staff Recommendation: Preliminary approval.

RAINHUT/LEARNING CENTER

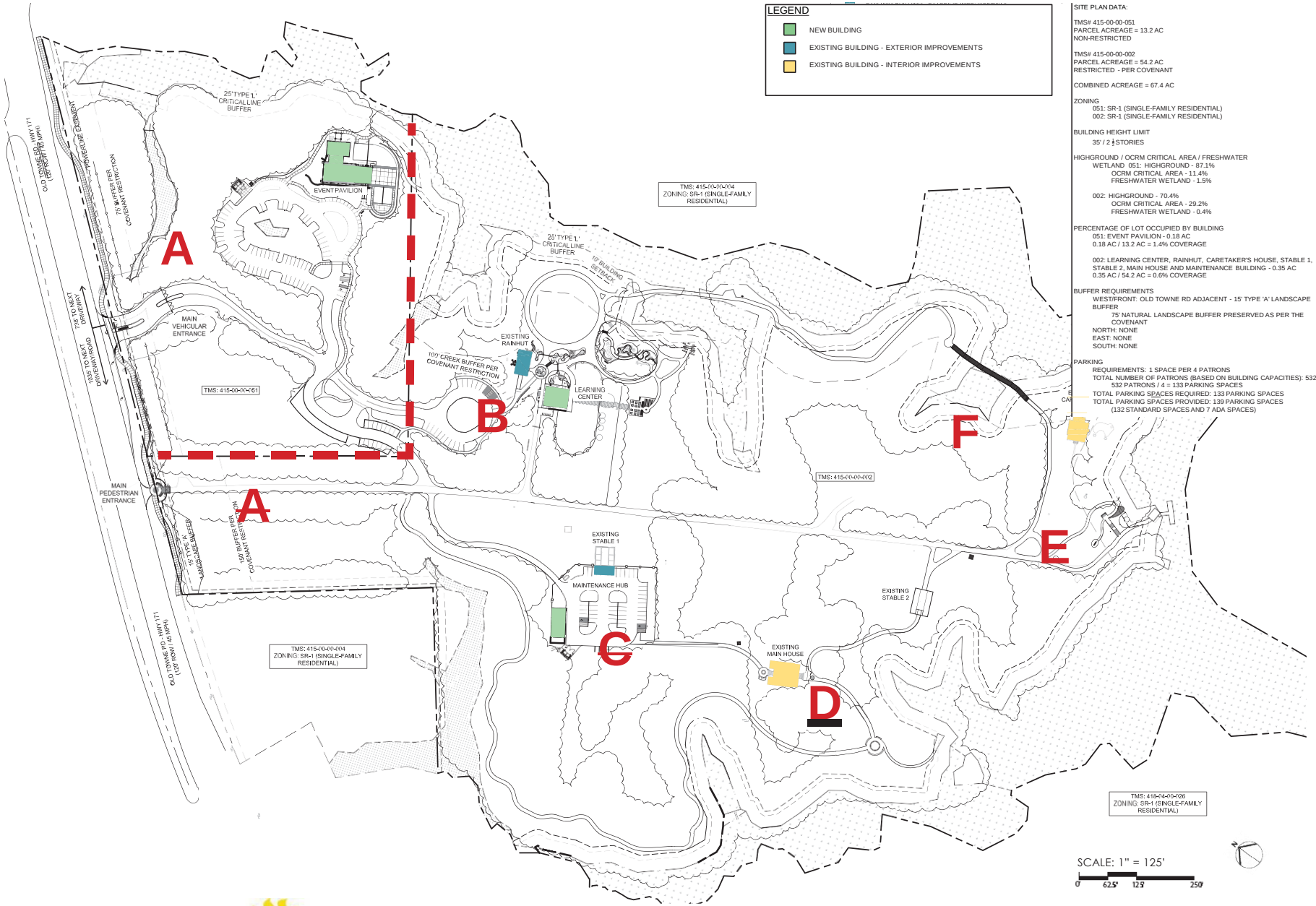
1. Staff thinks this is a great design for the Learning Center and situated nicely in the landscape.
2. Staff is wondering why the 2 different heights for the brick walls that support the columns of the outdoor classroom area as seen in the SW elevation. Staff suggest they all be the lower 1/6" to provide more seating area.
3. The landscape plan for this set is incomplete and does not call out all the plant material or provide a plant list, so staff cannot properly assess.

Staff Recommendation: Preliminary approval.

MAINTENANCE BUILDING

1. The applicant did a nice job of situating the maintenance building in with the existing stables and away from the main active area.
2. The applicant is providing a 6' high wood screen fence around the parking lot.
3. Staff appreciates the oversized tree islands in the parking lot

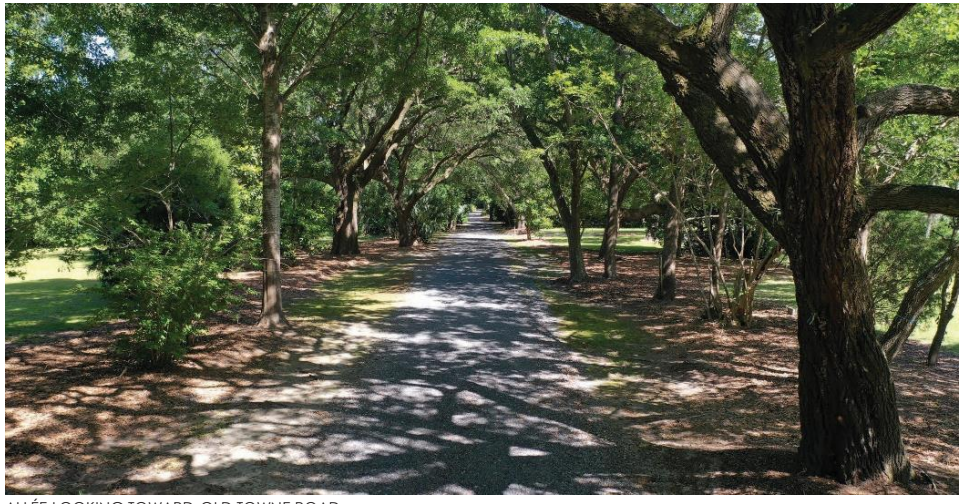
Staff Recommendation: Preliminary approval



DESIGN REVIEW BOARD | SITE SUBMITTAL

OLD TOWNE CREEK COUNTY PARK | OVERALL SITE PLAN

Stantec liollio architecture CHARLESTON COUNTY PARK & RECREATION COMMISSION



ALLÉE LOOKING TOWARD OLD TOWNE ROAD

BLUFF WITH VIEW TOWARDS THE DOCK

OLD TOWNE CREEK VIEW FROM DOCK

AREA ‘A’

EVENTS PAVILION AND ENTRANCE

EVENT PAVILION CREEK VIEW

EVENT PAVILION PROPOSED SITE

EVENT PAVILION CREEK VIEW

EVENT PAVILION SITE FROM HORSE TRAIL

TREE SUMMARY

TOTAL PARK ACREAGE = 67.33 AC
EXISTING GRAND TREES = 220
EXISTING PROTECTED TREES =3819
TOTAL PROTECTED AND GRAND TREES = 4039
TOTAL TREES PER ACRE = 60

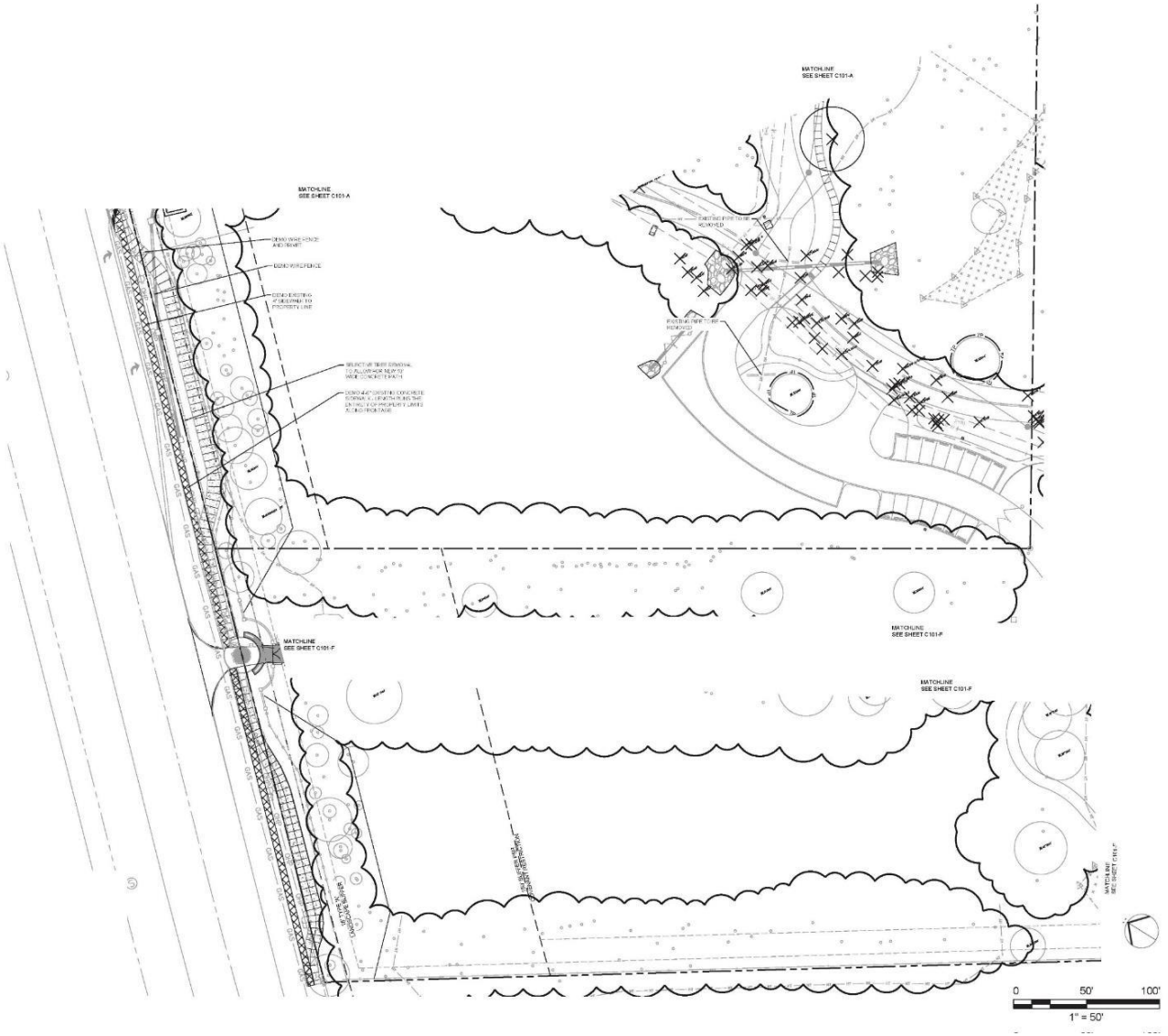
PROPOSED GRAND TREES TO BE REMOVED =6
1. 16,18,21" OAK - DEAD / HAZARD*
2. 67" OAK - DEAD / HAZARD*
3. 14.5,16.5" OAK - V-CROTCH / CAVITIES / DECAY*
4. 39" OAK - DEAD/ HAZARD, BLOWN OVER IN STORM *
5. 32" PECAN -DEAD/ HAZARD*
6. 31" PECAN -DEAD/ HAZARD*

*APPROVED AT STAFF LEVEL FOR REMOVAL AT SITE WALK ON 02.15.2019 - NO MITIGATION REQUIRED

PROPOSED GRAND TREE REMOVAL - VARIANCE REQUEST
1. 25" OAK*

*APPROVED BY BZA ON 12.04.2019 - 25" MITIGATION REQUIRED

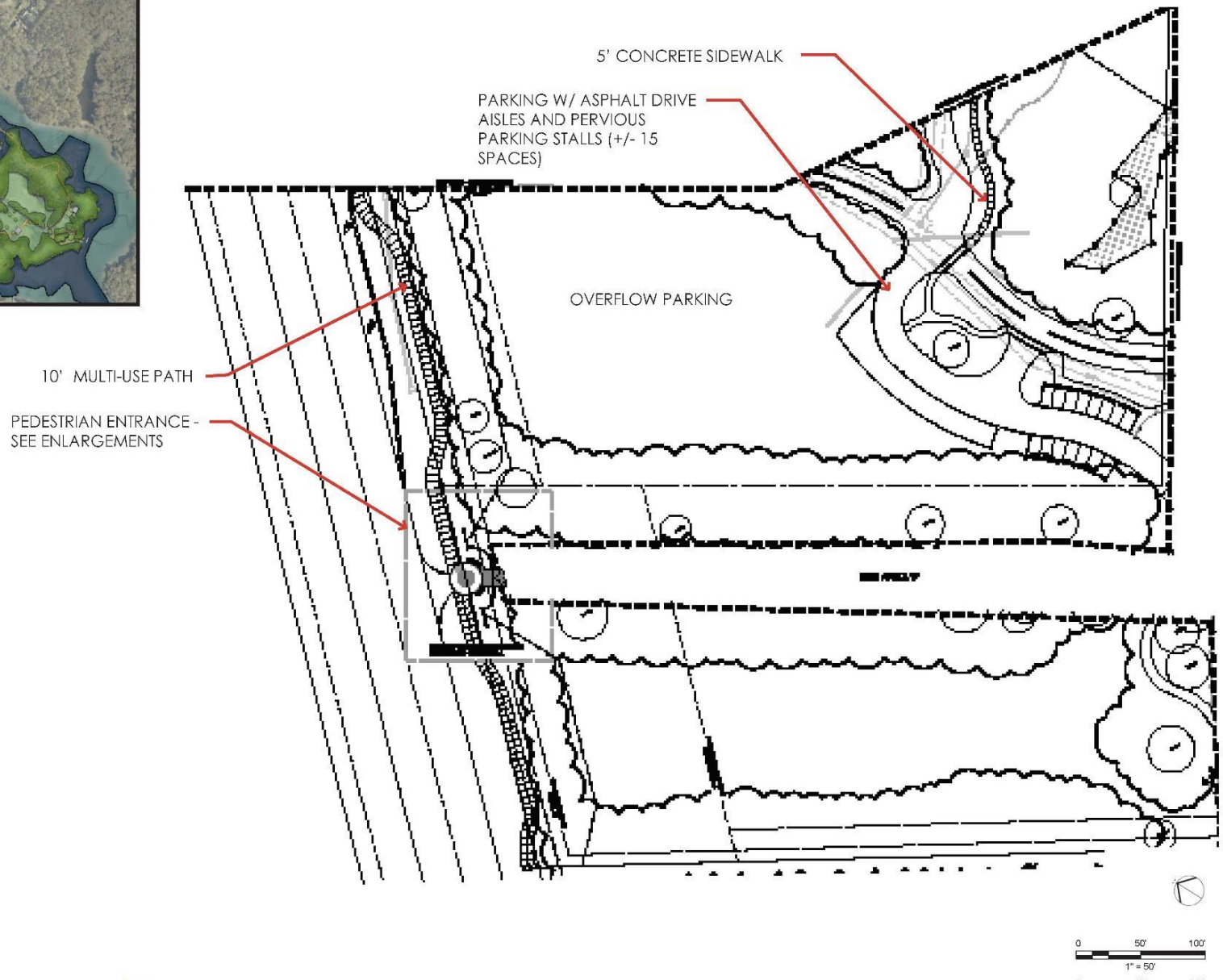
PROPOSED PROTECTED TREE REMOVAL = 383
PROPOSED TOTAL TREES PER ACRE = 54
PROPOSED TOTAL PROTECTED AND GRAND TREES TO REMAIN: 3641

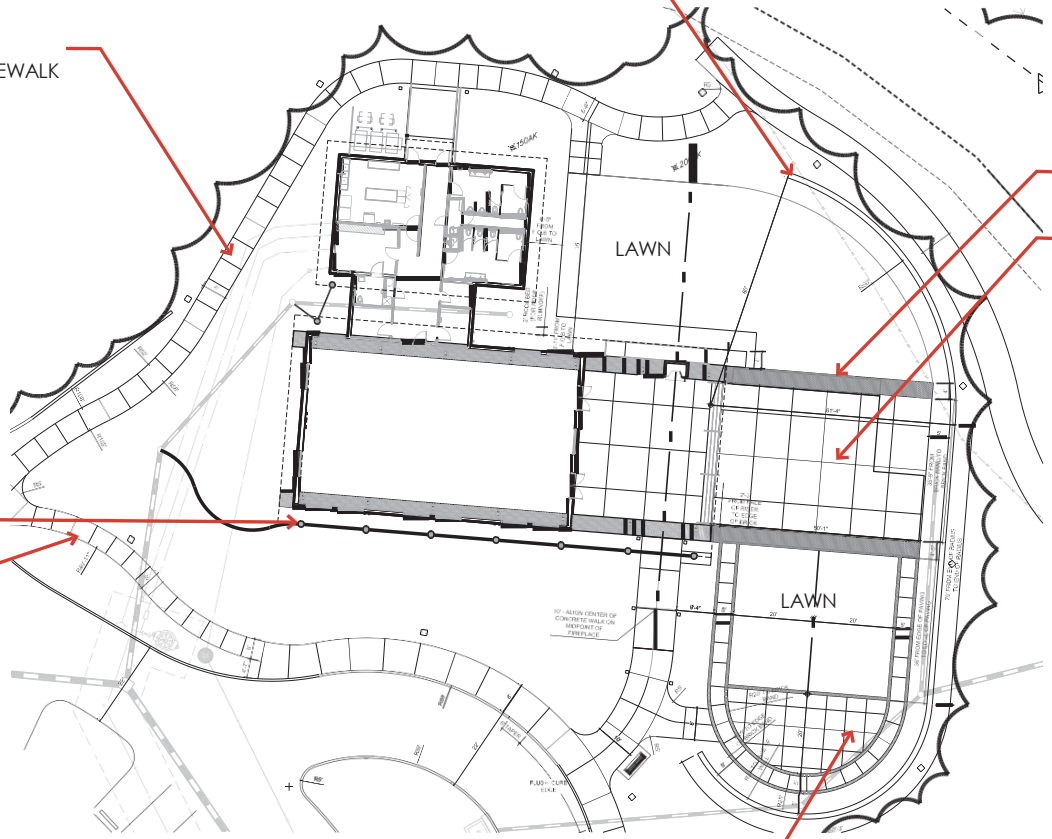

MATCHLINE
SEE SHEET C101-A
MATCHLINE
SEE SHEET C101-A
MATCHLINE
SEE SHEET C101-F
MATCHLINE
SEE SHEET C101-F
MATCHLINE
SEE SHEET C101-F
0
50'
100'
1" = 50'

2
0
6

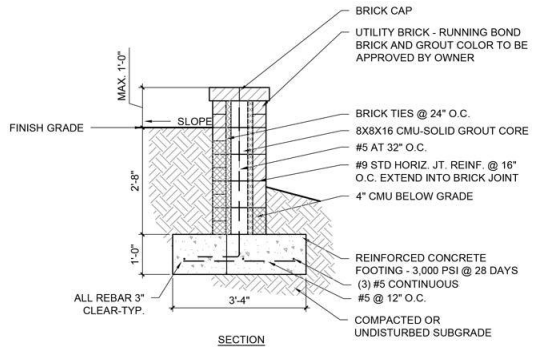
DESIGN REVIEW BOARD | SITE SUBMITTAL

ENTRY AND EVENTS PAVILION | SITE PLAN

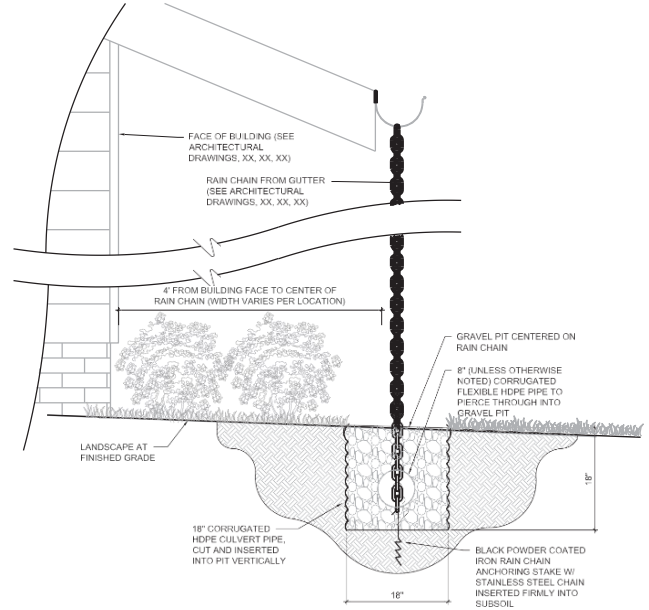

5' CONCRETE SIDEWALK
PARKING W/ ASPHALT DRIVE AISLES AND PERVIOUS PARKING STALLS (+/- 15 SPACES)
OVERFLOW PARKING
10' MULTI-USE PATH
PEDESTRIAN ENTRANCE - SEE ENLARGEMENTS
0
50'
100'
1" = 50'


LOW WALL
BROOM FINISH
CONCRETE SIDEWALK
CONTINUATION OF
BRICK BAND FROM
BUILDING FLUSH W/
CONCRETE
SALT FINISH
CONCRETE
LAWN
RAIN CHAIN
LOCATIONS
BROOM FINISH
CONCRETE SIDEWALK
LAWN
SALT FINISH CONCRETE WITH
BRICK EDGING

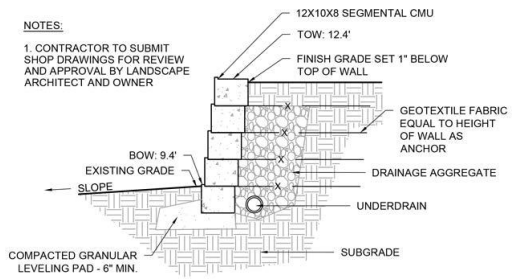
0 20' 40'
1" = 20'



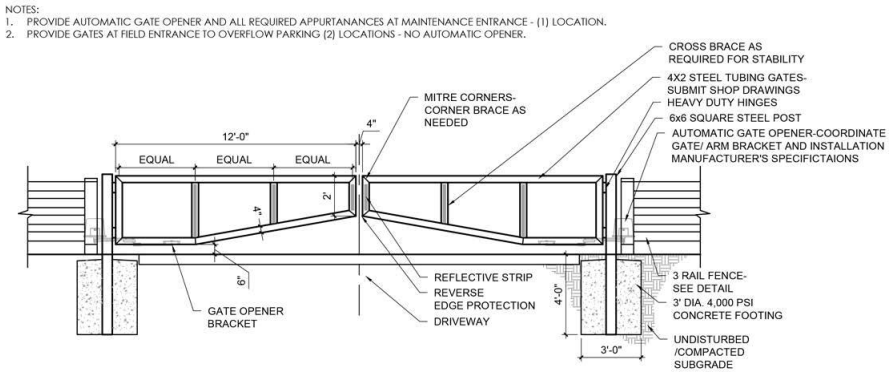
LOW WALL AT COURTYARD



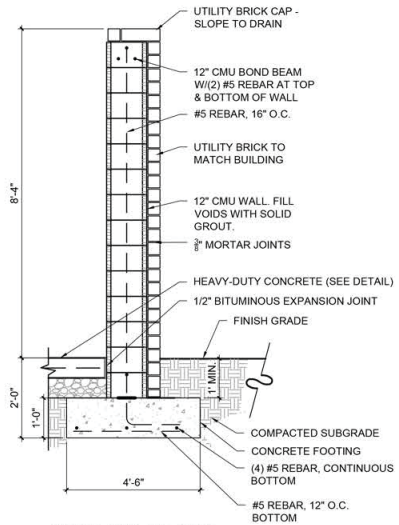
RAIN CHAIN



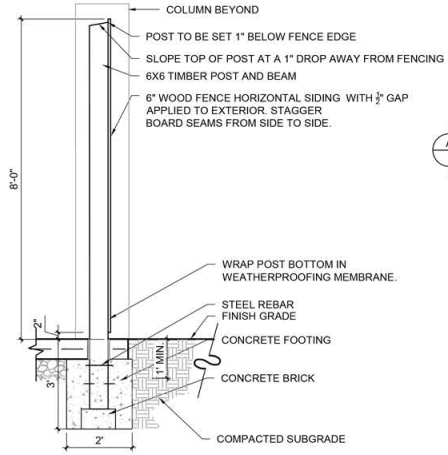
3' SEGMENTAL RETAINING WALL



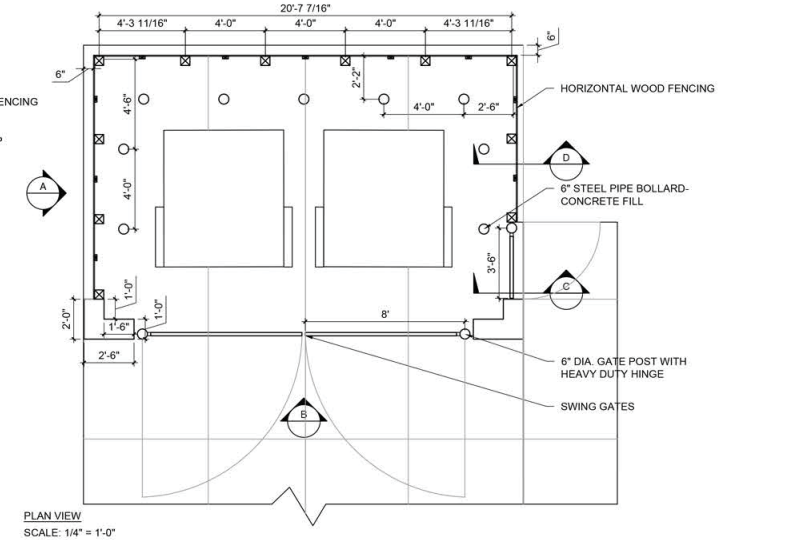
VEHICULAR GATE



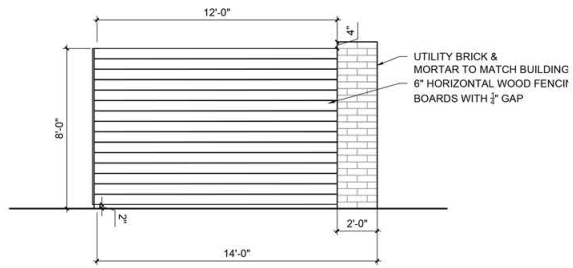
TYPICAL WALL SECTION C
1/2"=1'-0"



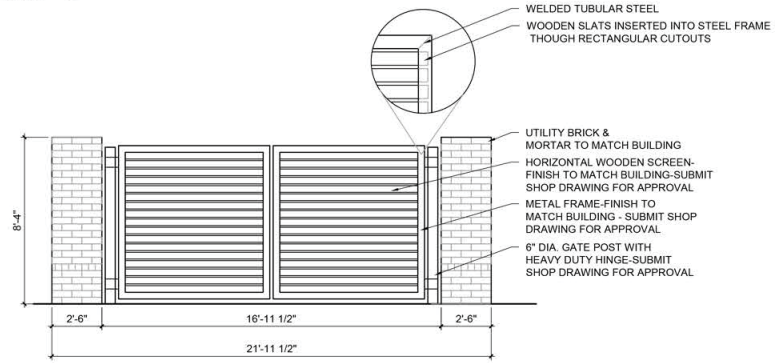
TYPICAL WALL SECTION D
1/2"=1'-0"



PLAN VIEW
SCALE: 1/4" = 1'-0"



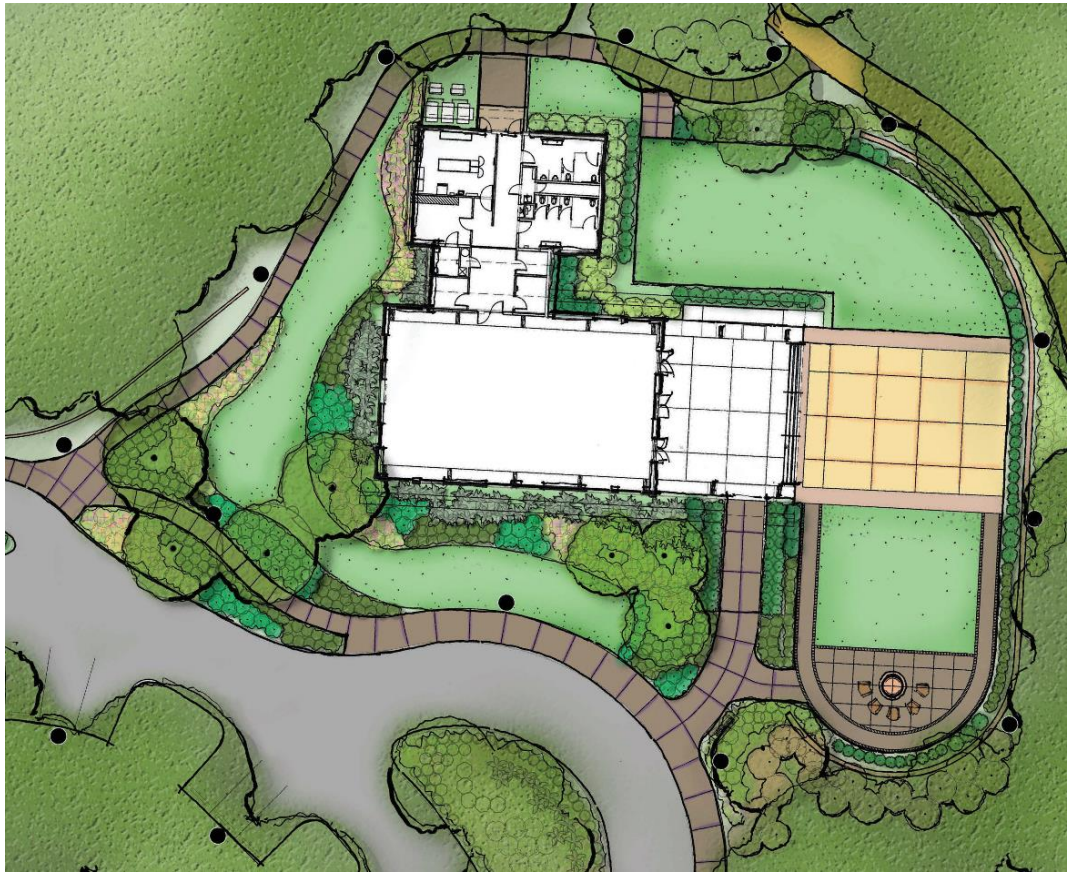
SIDE ELEVATION A
SCALE: 1/4" = 1'-0"



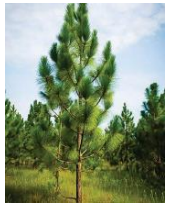
FRONT ELEVATION B
SCALE: 1/4" = 1'-0"

DUMPSTER ENCLOSURE

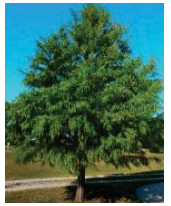
2
1
1



LIVE OAK



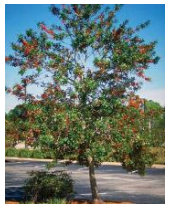
LONGLEAF PINE



BALD CYPRESS

SWEETBAY MAGNOLIA

CAMELLIA SASANQUA 'YULETIDE'



DAHOON HOLLY

FATSIA

PINK MUHLY

AZALEA 'GEORGE TABOR'

GARDENIA 'DOUBLE MINT'

FORTNIGHT LILY

COMMON LADY FERN

CAROLINA ALLSPICE

SABAL MINOR - DWARF PALMETTO

BLUE PLUMBAGO

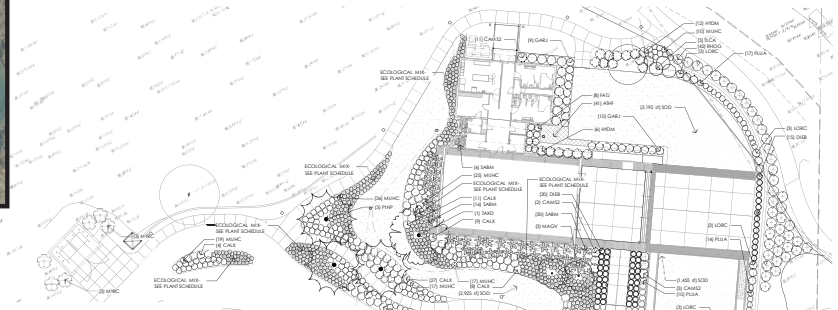
LOROPETALUM 'EMERALD SNOW'

HYDRANGEA 'ENDLESS SUMMER'

DESIGN REVIEW BOARD | SITE SUBMITTAL

EVENTS PAVILION + PARKING AREA | LANDSCAPE PLAN

2
1
2



0 40' 80'

1" = 40'

PLANT SCHEDULE EVENTS PAVILLION

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	SPREAD		REMARKS
	CHIV	1	CHIONANTHUS VIRGINICUS / WHITE FRINGE TREE	B &B	3" CAL	8'-0"	3'-0"		SPECIMEN TREE
	MAGV	9	MAGNOLIA VIRGINIANA / SWEETBAY	65GAL	2.5" CAL	10'-12'			SINGLE TRUNK
	PINP	6	PINUS PALUSTRIS / LONGLEAF PINE	B &B	3.5" - 4" CAL	10'-12'	5-6'		SPECIMEN TREE
	QUES	4	QUERCUS SHUMARDII / SHUMARD RED OAK	B &B	2.5" CAL	12'-14'	4-5'		
	QUEV	1	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK	B &B	2.5" CAL	12'-14'	4-5'		
	TAXD	1	TAXODIUM DISTICHUM / BALD CYPRESS	B &B	3.5" - 4" CAL	10'-12'	5-6'		SPECIMEN TREE
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
	CALY	122	CALYCANTHUS 'X VENUS' / CAROLINA ALLSPICE	7GAL	3'-4'	2-3'			FULL CONTAINER
	CAMS2	17	CAMELLIA SASANQUA 'YULETIDE' / YULETIDE CAMELLIA	15GAL	3'-4'	3-4'			FULL CONTAINER
	DIEB	66	DIETES BICOLOR / FORTNIGHT LILY	3GAL	2'-3'	1' - 2'			FULL CONTAINER
	FATJ	10	FATSIA JAPONICA / JAPANESE FATSIA	7GAL	2'-3'	2-3'			FULL CONTAINER
	GARJ	19	GARDENIA JASMINOIDES 'DOUBLE MINT' / DOUBLE MINT GARDENIA	7GAL	2'-3'	2-3'			FULL CONTAINER
	HYDM	16	HYDRANGEA MACROPHYLLA 'ENDLESS SUMMER' TM / BALMER HYDRANGEA	5GAL	2'-3'	3-4'			FULL CONTAINER
	ILCA	6	ILEX CASSINE / DAHOON HOLLY	45GAL	5'-6'	3-4'			FULL CONTAINER
	LORC	15	LOROPETALUM CHINENSE 'EMERALD SNOW' / EMERALD SNOW LOROPETALUM	7GAL	2'-3'	2-3'			FULL CONTAINER
	MUHC	294	MUHLENBERGIA CAPILLARIS / PINK MUHLY	3GAL	2'-3'	18-24"			FULL CONTAINER
	MYRC	6	MYRICA CERIFERA / WAX MYRTLE	30GAL	6'-7'				
	PLUA	41	PLUMBAGO AURICULATA / BLUE PLUMBAGO	3GAL	1' - 2'	1' - 2'			FULL CONTAINER
	RHDG	42	RHODODENDRON INDICUM 'GEORGE L. TABOR' / LARGE PINK AZALEA	7GAL	3'-4'	2-3'			FULL CONTAINER
	SABM	70	SABAL MINOR / DWARF PALMETTO	7GAL	2'-3'	2-3'			FULL CONTAINER
ECOLOGICAL MIX	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
	A	118	ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED	1GAL	1' - 2'	1' - 2'			FULL CONTAINER
	B	49	BAPTISIA ALBA / WILD INDIGO	1GAL	1' - 2'	1' - 2'			FULL CONTAINER
	C	93	COREOPSIS LANCEOLATA / LANCELEAF TICKSEED	1GAL	1' - 2'	1' - 2'			FULL CONTAINER
	E	110	ECHINACEA PURPUREA / CONEFLOWER	1GAL	1' - 2'	1' - 2'			FULL CONTAINER
	Y	75	ERYNGIUM YUCCIFOLIUM / RATTLESNAKE MASTER	1GAL	1' - 2'	1' - 2'			FULL CONTAINER
	P	139	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY' / LITTLE BUNNY FOUNTAIN GRASS	1GAL	1' - 2'	1' - 2'			FULL CONTAINER
	R	115	RUDBECKIA HIRTA / BLACK-EYED SUSAN	1GAL	1' - 2'	1' - 2'			FULL CONTAINER
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT				SPACING	REMARKS
	ATHF	21	ATHYRIUM FILIX-FEMINA / COMMON LADY FERN	1GAL				24" o.c.	FULL CONTAINER
	SOD	7,575 SF	CYNODON DACTYLON / BERMUDA GRASS TIFTUF	SOD					

Black Eyed Susans

Little Bunny Fountain Grass

Rattlesnake Master

Purple Coneflower

Lanceleaf Tickseed

Wild Indigo

Butterfly Milkweed

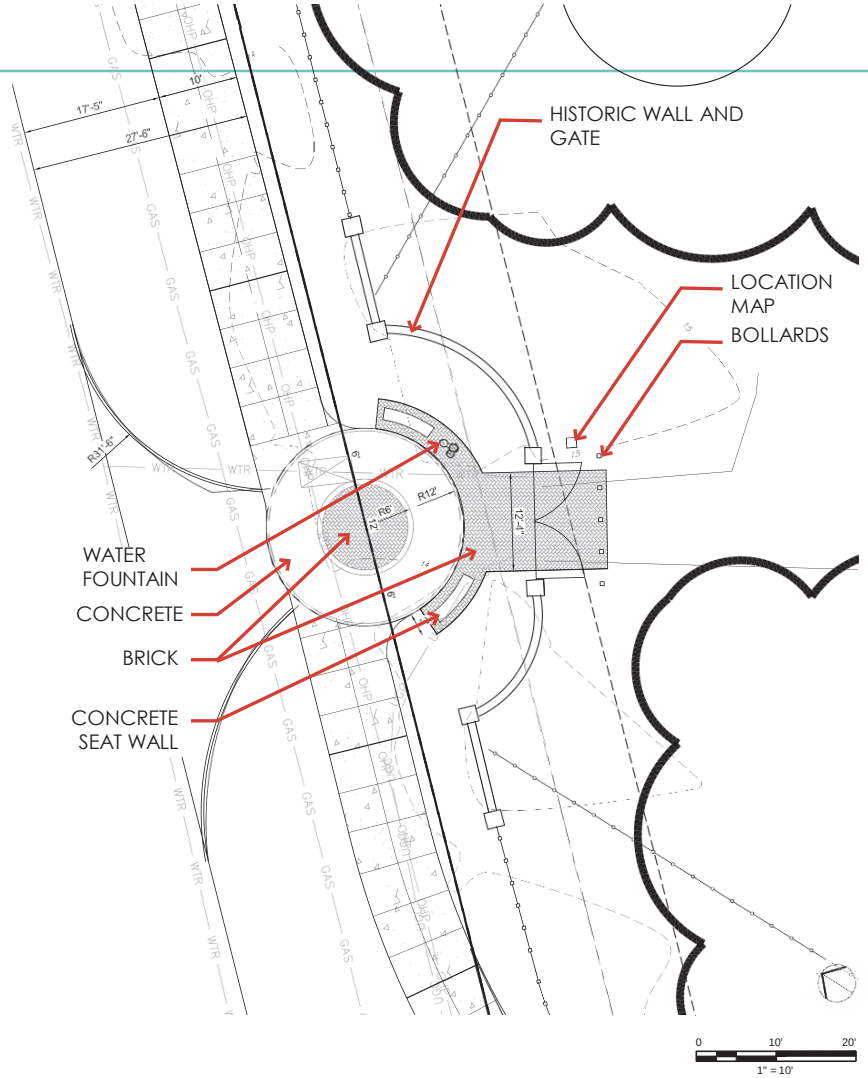
Oakleaf Hydrangea

DESIGN REVIEW BOARD | SITE SUBMITTAL

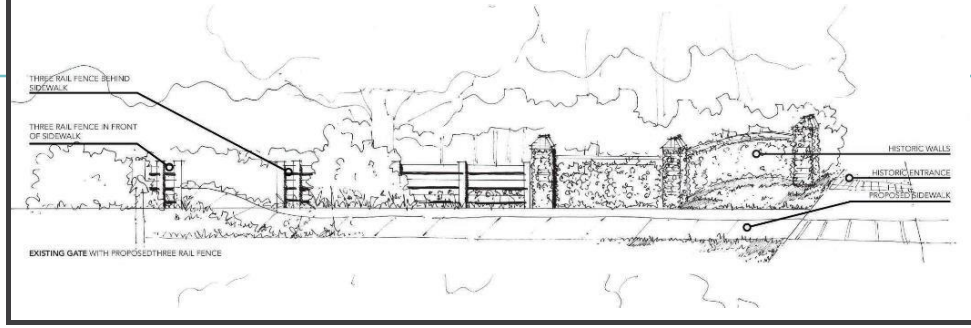
EVENTS PAVILION + PARKING AREA | LANDSCAPE PLAN

2
1
3

Preliminary Submittal - Proposed Pedestrian Entrance



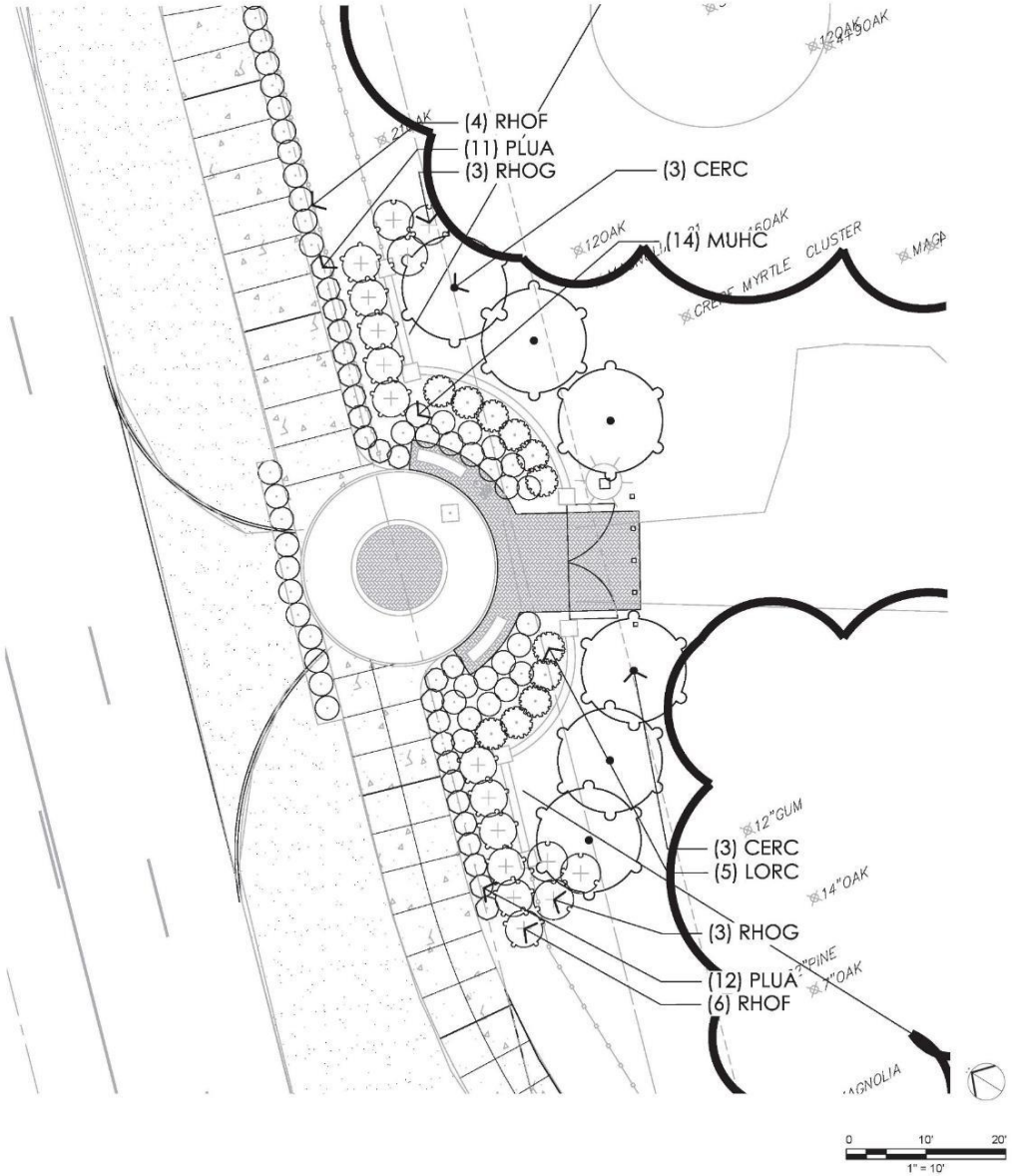
Conceptual Submittal - Proposed Pedestrian Entrance



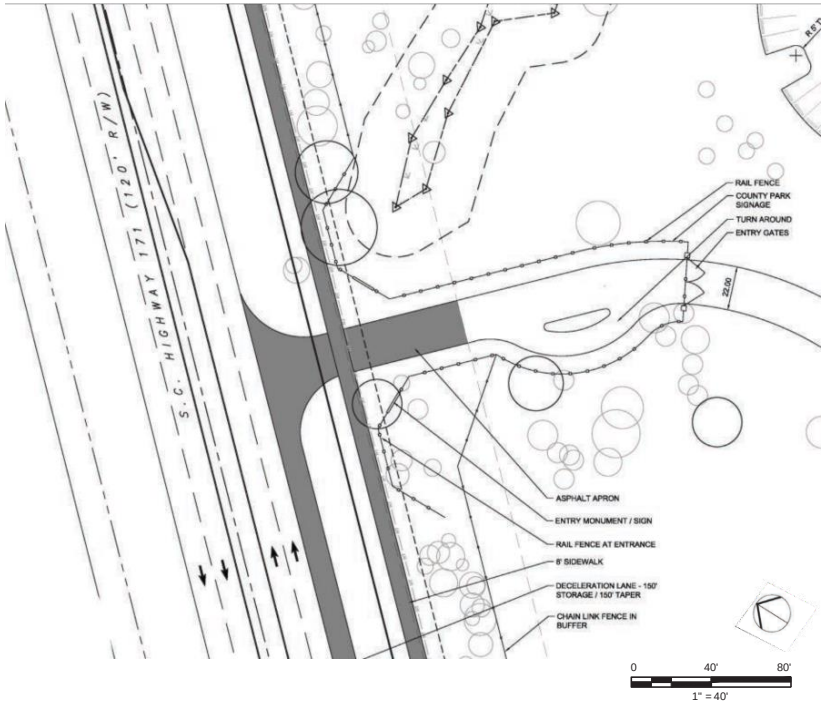
Stantec

CHARLESTON COUNTY PARK & RECREATION COMMISSION

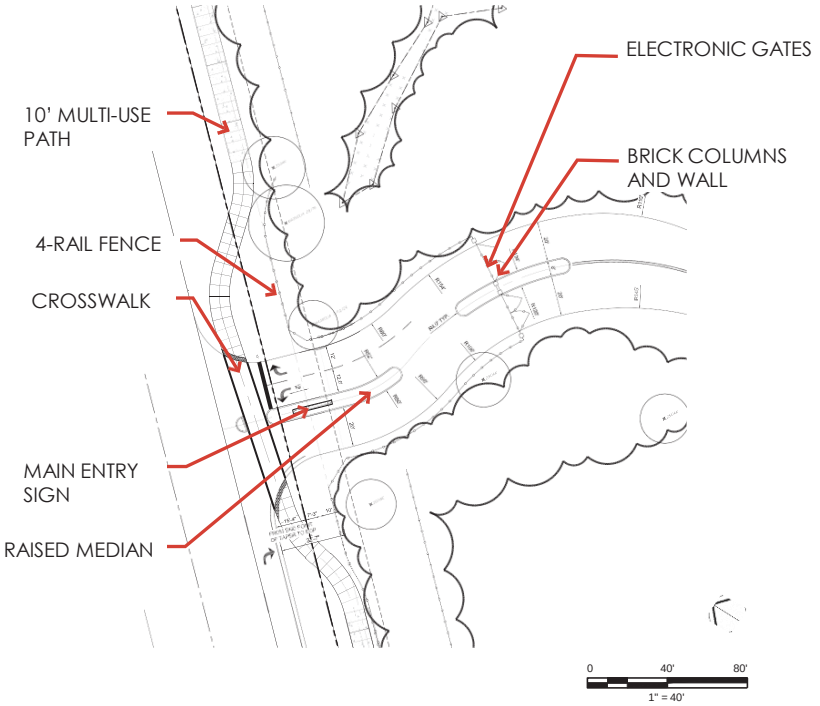
PLANT SCHEDULE PED ENTRANCE								
TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE		REMARKS
	CERC	6	CERCIS CANADENSIS / REDBUD "FOREST PANSY"	B & B	3"-4"	8'-10'		
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD		REMARKS
	LORC	11	LOROPETALUM CHINENSE "EMERALD SNOW" / EMERALD SNOW LOROPETALUM	7 GAL	2'-3'	2-3'		FULL CONTAINER
	MUHC	46	MUHLENBERGIA CAPILLARIS / PINK MUHLY	3 GAL	2'-3'	18-24"		FULL CONTAINER
	PLUA	24	PLUMBAGO AURICULATA / BLUE PLUMBAGO	3 GAL	1' - 2'	1' - 2'		FULL CONTAINER
	RHOF	11	RHODODENDRON INDICUM "FORMOSA" / FORMOSA AZALEA	7 GAL	3'-4'	2-3'		FULL CONTAINER
	RHOG	6	RHODODENDRON INDICUM "GEORGE L. TABOR" / LARGE PINK AZALEA	7 GAL	3'-4'	2-3'		FULL CONTAINER

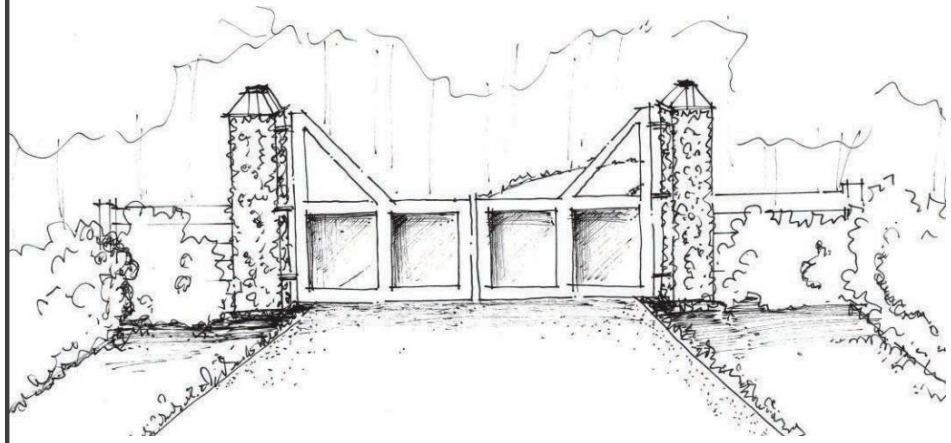


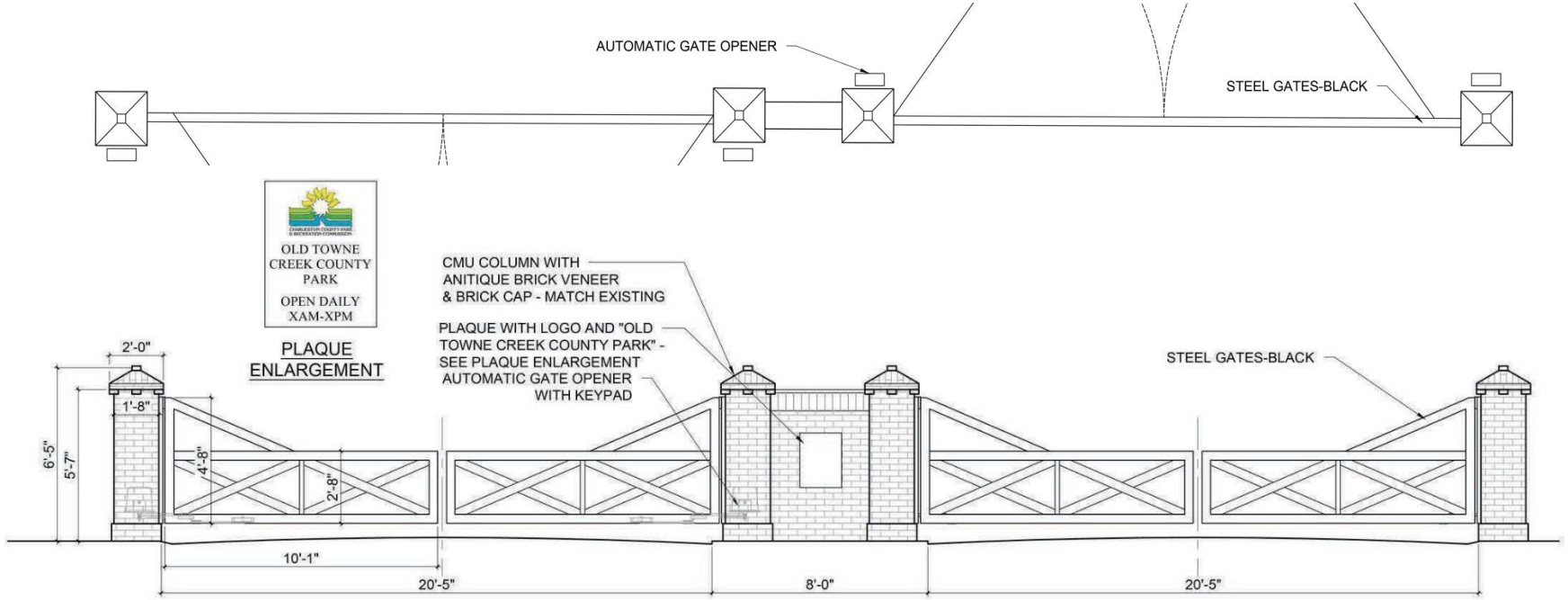
Conceptual Submittal - Proposed New Vehicular Entrance



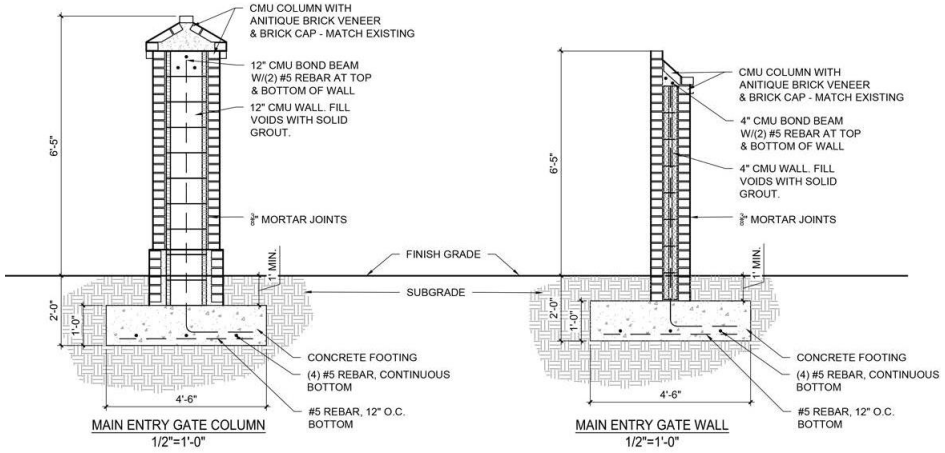
Preliminary Submittal - Proposed New Vehicular Entrance



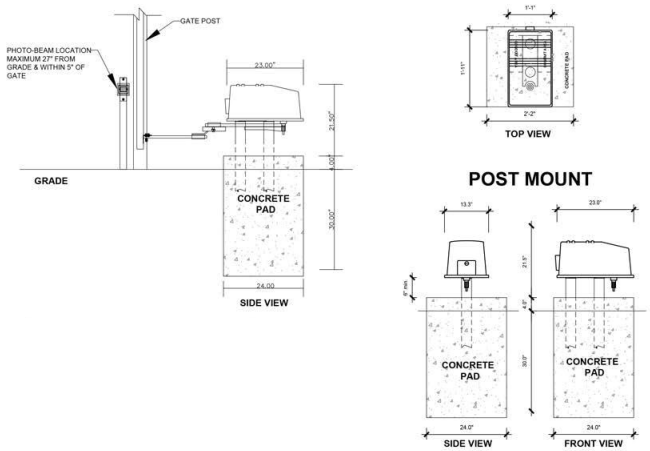




MAIN ENTRY GATES

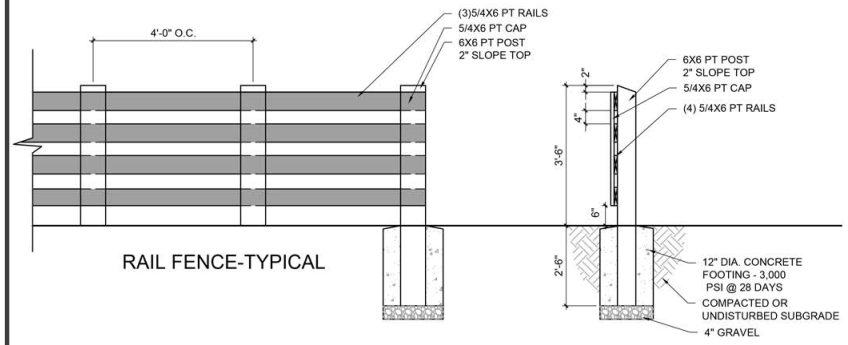


COLUMNS @ MAIN ENTRY GATES



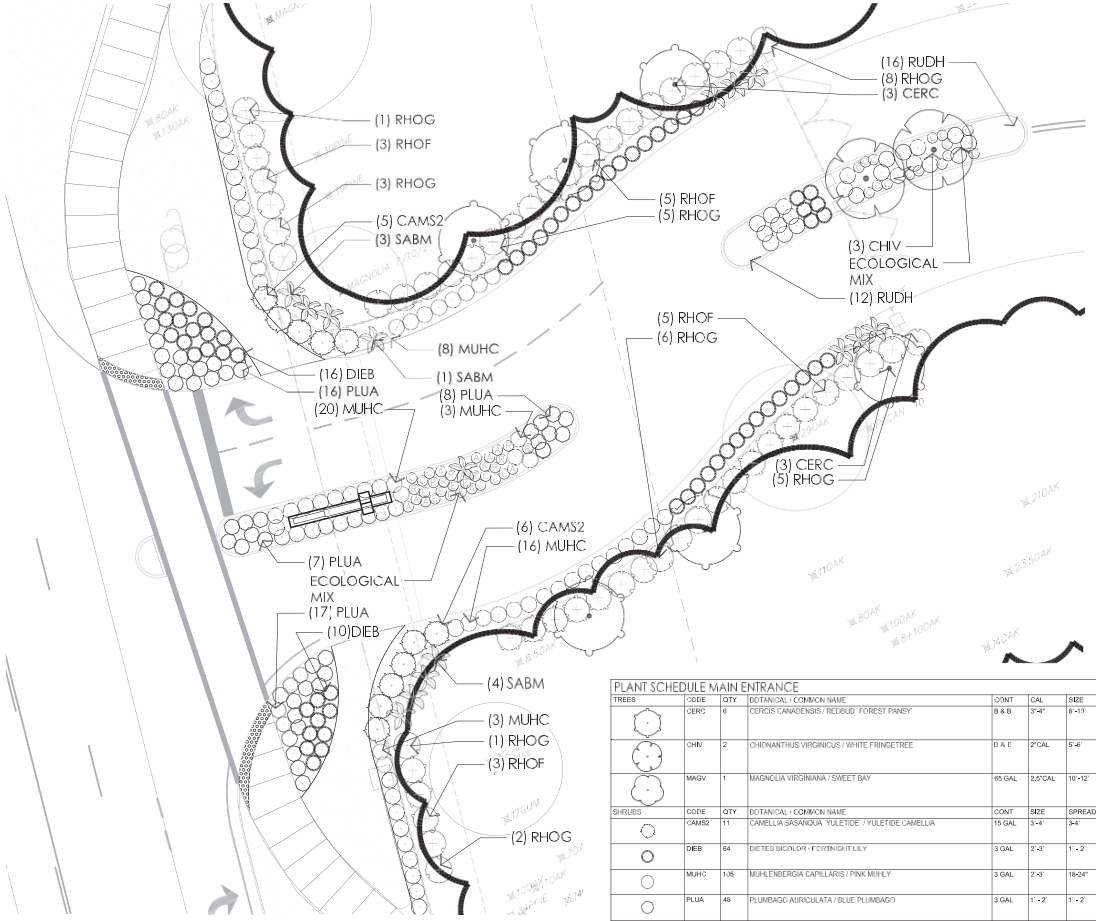
ELECTRONIC HARDWARE @ MAIN ENTRY GATES

MAIN ENTRY SIGN



4-RAIL FENCE

2
1
8



PLANT SCHEDULE MAIN ENTRANCE

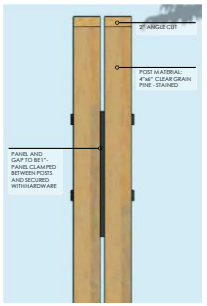
TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	SPREAD		REMARKS
	CERC	6	CERCIS CANADENSIS / REDBUD 'FOREST PANSY'	B & B	3"-4"	8'-10'			
	CHIV	2	CHIONANTHUS VIRGINICUS / WHITE FRINGETREE	B & B	2"CAL	5'-6'	3'-4'		SPECIMEN TREE
	MAGV	1	MAGNOLIA VIRGINIANA / SWEET BAY	65 GAL	2.5"CAL	10'-12'			SINGLE TRUNK
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
	CAMS2	11	CAMELLIA SASANQUA 'YULETIDE' / YULETIDE CAMELLIA	15 GAL	3'-4'	3-4'			FULL CONTAINER
	DIEB	64	DIETES BICOLOR / FORTNIGHT LILY	3 GAL	2'-3'	1' - 2'			FULL CONTAINER
	MUHC	105	MUHLENBERGIA CAPILLARIS / PINK MUHLY	3 GAL	2'-3'	18-24"			FULL CONTAINER
	PLUA	48	PLUMBAGO AURICULATA / BLUE PLUMBAGO	3 GAL	1' - 2'	1' - 2'			FULL CONTAINER
	RHOF	21	RHODODENDRON INDICUM 'FORMOSA' / FORMOSA AZALEA	7 GAL	3'-4'	2-3'			FULL CONTAINER
	RHOG	32	RHODODENDRON INDICUM 'GEORGE L. TABOR' / LARGE PINK AZALEA	7 GAL	3'-4'	2-3'			FULL CONTAINER
	SABM	15	SABAL MINOR / DWARF PALMETTO	7 GAL	2'-3'	2-3'			FULL CONTAINER
ECOLOGICAL MIX	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
	A	9	ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
	C	22	COREOPSIS LANCEOLATA / LANCELEAF TICKSEED	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
	E	7	ECHINACEA PURPUREA / CONEFLOWER	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
	R	10	RUDBECKIA HIRTA / BLACK-EYED SUSAN	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT				SPACING	REMARKS
	RUDH	28	RUDBECKIA HIRTA / BLACK-EYED SUSAN	3 GAL				24" o.c.	FULL CONTAINER

0 30' 60'
1" = 30'

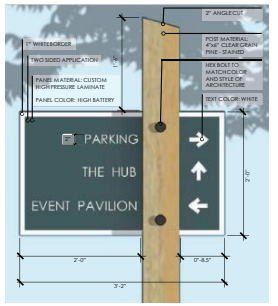
Stantec liollio architecture CHARLESTON COUNTY PARK & RECREATION COMMISSION

DESIGN REVIEW BOARD | SITE SUBMITTAL

MAIN PARK ENTRANCE | LANDSCAPE PLAN



SIDE VIEW



FRONT VIEW

ENLARGEMENTS

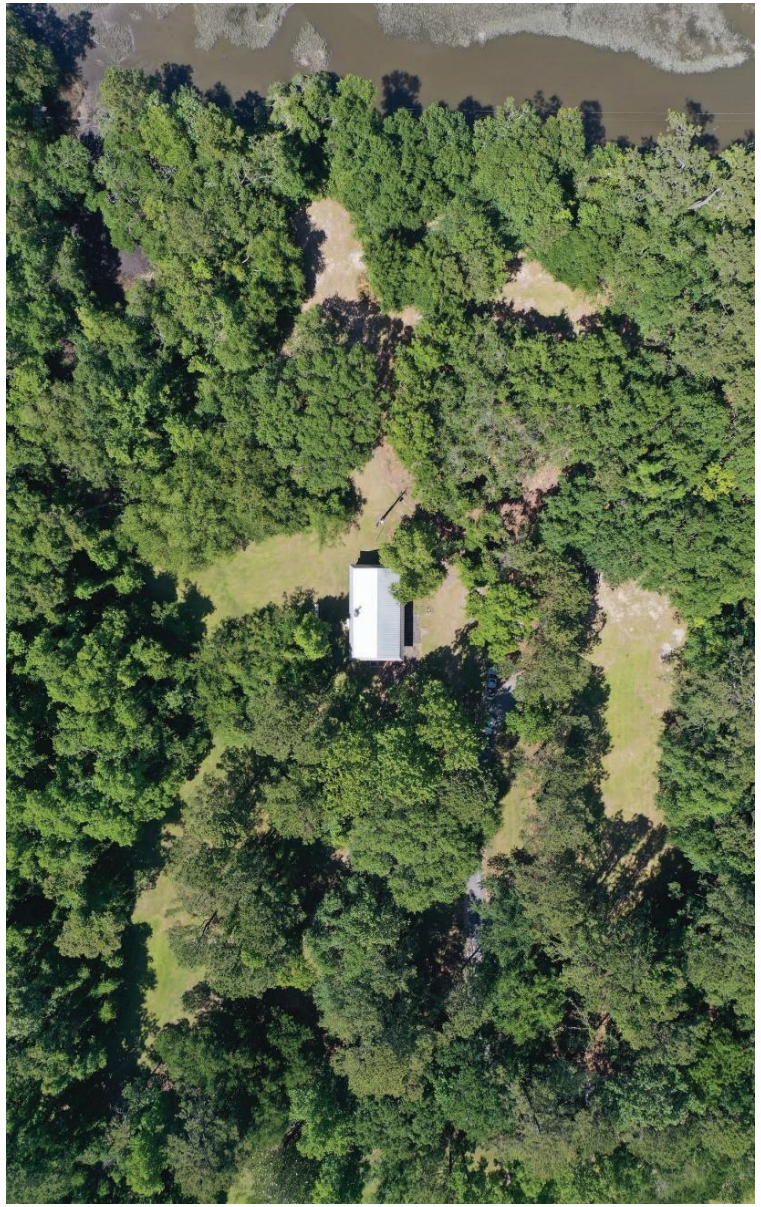

LEGEND
MAIN ENTRY SIGN
KIOSK
VEHICULAR DIRECTIONAL
PEDESTRIAN DIRECTIONAL / DESTINATION
TRAIL MARKER
LOCATION MAP
*INTERPRETATIVE SIGNAGE TO BE DETERMINED BY ONWER

2
2
1

AREA ‘B’

RAIN HUT AND LEARNING CENTER

2
2
2



AERIAL VIEW OF RAIN HUT AND LEARNING CENTER SITE

HISTORIC LIVE OAK

VIEW TOWARDS HISTORIC ALLEE FROM THE RAIN HUT

PARK AREA B | SITE IMAGES

2
2
3

TREES WITHIN THE PLAY AREA

2
2
4

PARK AREA B | RENDERING

2
2
5

DESIGN REVIEW BOARD | SITE SUBMITTAL

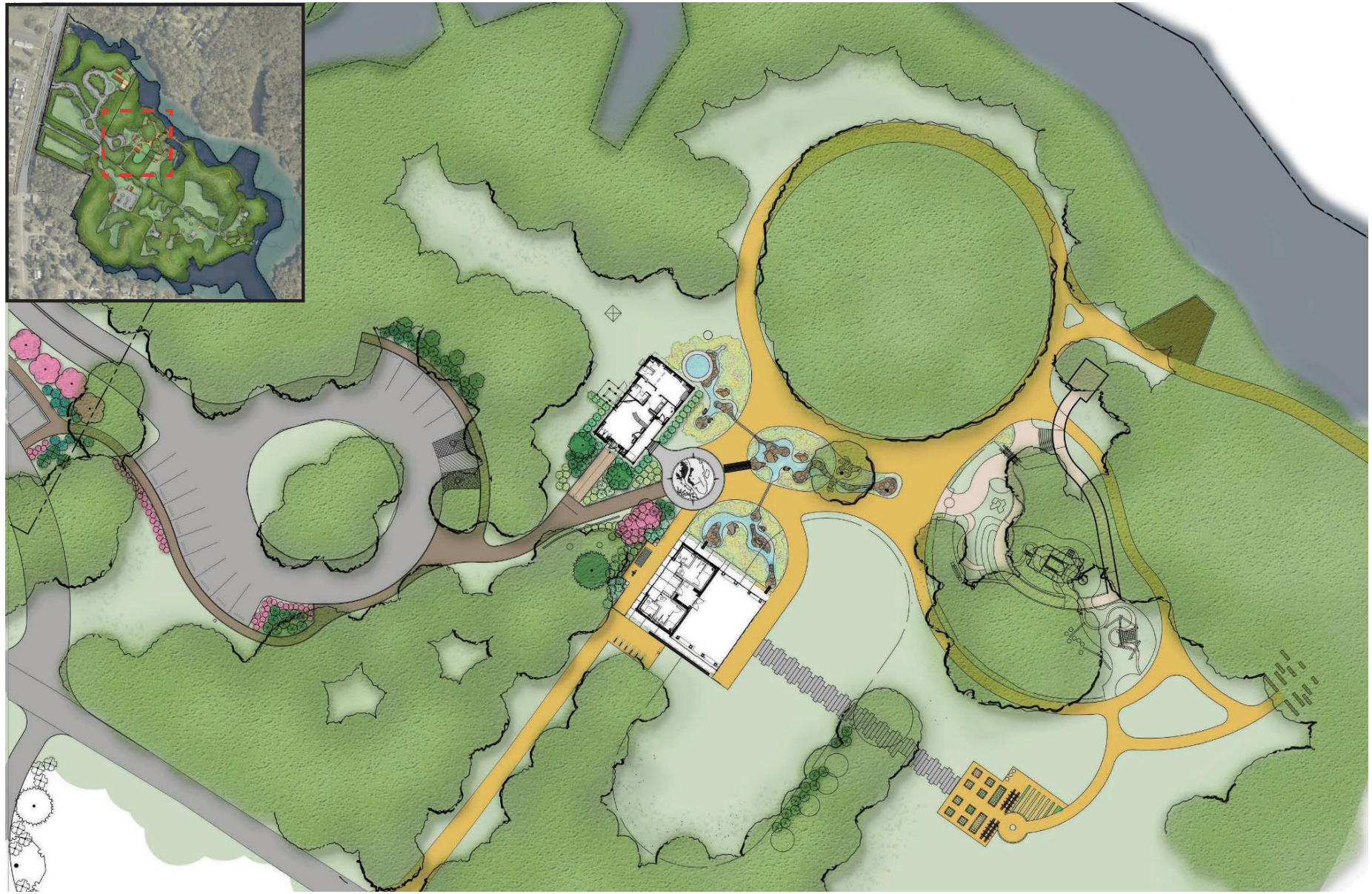
PARK AREA B | DEMO PLAN

2
2
6

DESIGN REVIEW BOARD | SITE SUBMITTAL

PARK AREA B | SITE PLAN

2
2
7



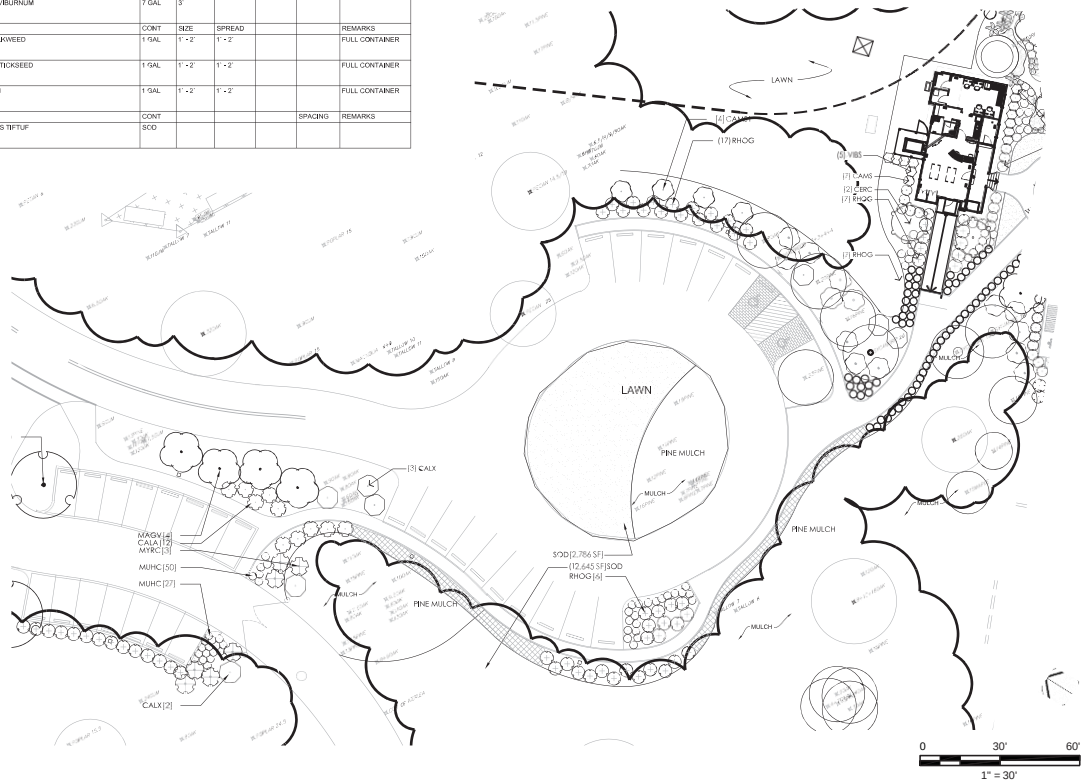
DESIGN REVIEW BOARD | SITE SUBMITTAL

PARK AREA B | LANDSCAPE RENDERING

2
2
8

PLANT SCHEDULE RAIN HUT

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	SPREAD		REMARKS
	CERC	2	CERCIS CANADENSIS / REDBUD 'FOREST PANSY'	B & B	3"-4"	8'-10'			
	MAGV	8	MAGNOLIA VIRGINIANA / SWEET BAY	65 GAL	2.5"CAL	10'-12'			SINGLE TRUNK
	QUES	6	QUERCUS SHUMARDII / SHUMARD RED OAK	B & B	2.5"CAL	12'-14'	4-5'		
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
	CALA	10	CALLICARPA AMERICANA / AMERICAN BEAUTYBERRY	7 GAL	2'-3'	3-4			FULL CONTAINER
	CALX	11	CALYCANTHUS X 'VENUS' / CAROLINA ALLSPICE	7 GAL	3'-4'	2-3'			FULL CONTAINER
	CAMS	18	CAMELLIA SASANQUA 'MINE NO YUKI' / MINE NO YUKI CAMELLIA	7 GAL					
	CAMS1	4	CAMELLIA SASANQUA 'MONDEL' / PINK-A-BOO (TM) CAMELLIA)	3 GAL					
	DIEB	66	DIETES BICOLOR / FORTNIGHT LILY	3 GAL	2'-3'	1' - 2'			FULL CONTAINER
	HYDQ	14	HYDRANGEA QUERCIFOLIA / OAKLEAF HYDRANGEA	7 GAL	2'-3'	1.5'-2'			FULL CONTAINER
	LORC	2	LOROPETALUM CHINENSE 'EMERALD SNOW' / EMERALD SNOW LOROPETALUM	7 GAL	2'-3'	2-3'			FULL CONTAINER
	MUHC	66	MUHLENBERGIA CAPILLARIS / PINK MUHLY	3 GAL	2'-3'	18-24"			FULL CONTAINER
	MYRC	32	MYRICA CERIFERA / WAX MYRTLE	30 GAL	6'-7'				
	RHOG	100	RHODODENDRON INDICUM 'GEORGE L. TABORY' / LARGE PINK AZALEA	7 GAL	3'-4'	2-3'			FULL CONTAINER
	SABM	4	SABAL MINOR / DWARF PALMETTO	7 GAL	2'-3'	2-3'			FULL CONTAINER
	VIBS	12	VIBURNUM SUSPENSUM / SANDANKWA VIBURNUM	7 GAL	3'				
ECOLOGICAL MIX	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
	A	2	ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
	C	1	COREOPSIS LANCEOLATA / LANCELEAF TICKSEED	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
	R	2	RUDBECKIA HIRTA / BLACK-EYED SUSAN	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT				SPACING	REMARKS
	SOD	2,786 SF	CYNODON DACTYLON / BERMUDA GRASS TIFTUF	SOD					

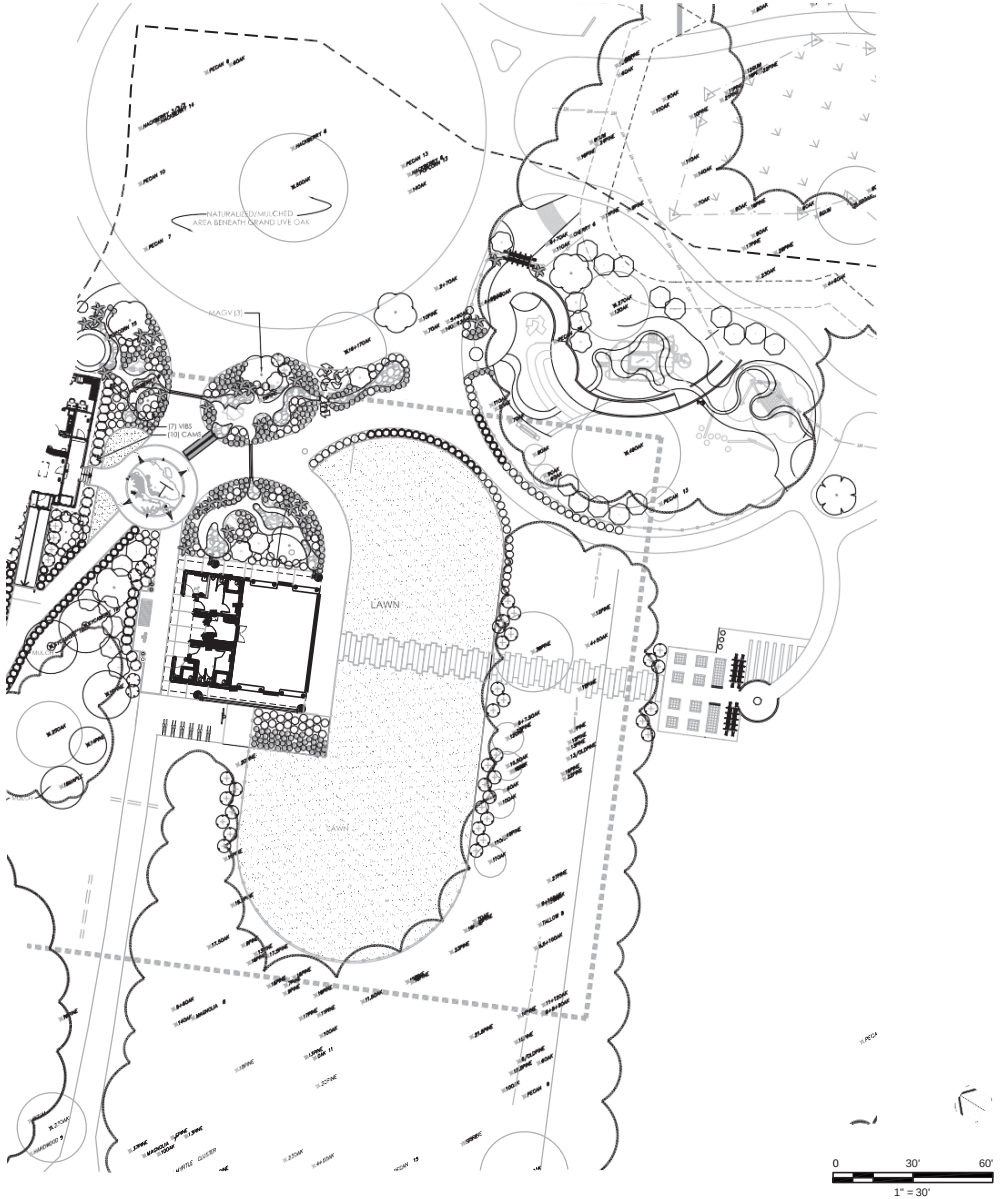


DESIGN REVIEW BOARD | SITE SUBMITTAL

RAIN HUT + PARKING AREA | LANDSCAPE PLAN

PLANT SCHEDULE LEARNING CENTER

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	SPREAD		REMARKS
	CHIV	2	CHIONANTHUS VIRGINICUS / WHITE FRINGETREE	B & B	2"CAL	5'-6'	3'-4'		SPECIMEN TREE
	MAGV	6	MAGNOLIA VIRGINIANA / SWEET BAY	45 GAL	2.5"CAL	10'-12'			SINGLE TRUNK
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
	CALX	16	CALYCANTHUS X 'VENUS' / CAROLINA ALLSPICE	7 GAL	3'-4'	2-3'			FULL CONTAINER
	CAMS	5	CAMELLIA SASANQUA 'MINE NO YUKI' / MINE NO YUKI CAMELLIA	7 GAL					
	DIEB	31	DIETES BICOLOR / FORTNIGHT LILY	3 GAL	2'-3'	1' - 2'			FULL CONTAINER
	HYDM	5	HYDRANGEA MACROPHYLLA 'ENDLESS SUMMER' TM / BAILMER HYDRANGEA	5 GAL	2'-3'	3-4			FULL CONTAINER
	HYDQ	8	HYDRANGEA QUERCIFOLIA / OAKLEAF HYDRANGEA	7 GAL	2'-3'	1.5' -2'			FULL CONTAINER
	LORC	4	LOROPETALUM CHINENSE 'EMERALD SNOW' / EMERALD SNOW LOROPETALUM	7 GAL	2'-3'	2-3'			FULL CONTAINER
	MUHC	132	MUHLENBERGIA CAPILLARIS / PINK MUHLY	3 GAL	2'-3'	18-24"			FULL CONTAINER
	RHOG	34	RHODODENDRON INDICUM 'GEORGE L TABOR' / LARGE PINK AZALEA	7 GAL	3'-4'	2-3'			FULL CONTAINER
	SABM	21	SABAL MINOR / DWARF PALMETTO	7 GAL	2'-3'	2-3'			FULL CONTAINER
ECOLOGICAL MIX	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
A	A	44	ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
C	C	34	COREOPSIS LANCEOLATA / LANCELEAF TICKSEED	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
E	E	61	ECHINACEA PURPUREA / CONEFLOWER	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
Y	Y	5	ERYNGIUM YUCCIFOLIUM / RATTLESNAKE MASTER	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
P	P	1	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY' / LITTLE BUNNY FOUNTAIN GRASS	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
R	R	82	RUDBECKIA HIRTA / BLACK-EYED SUSAN	1 GAL	1' - 2'	1' - 2'			FULL CONTAINER
S	S	48	STOKESIA LAEVIS / STOKES' ASTER	1 GAL					



DESIGN REVIEW BOARD | SITE SUBMITTAL

LEARNING CENTER AND PLAY AREA | LANDSCAPE PLAN

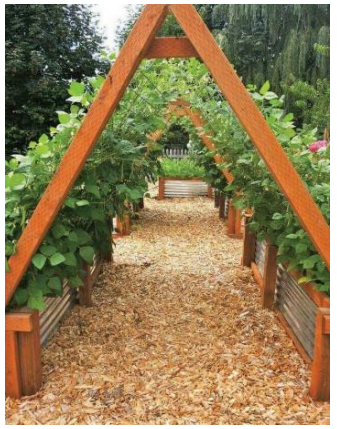
EXISTING MATERIALS ON-SITE

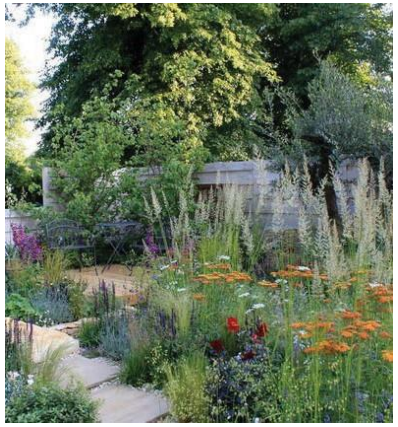
BENCH

BIKE RACK

BIKE REPAIR STATION

CHILLED WATER FOUNTAIN

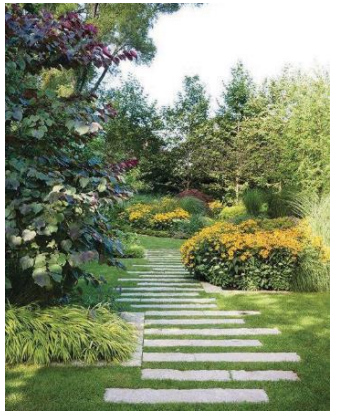




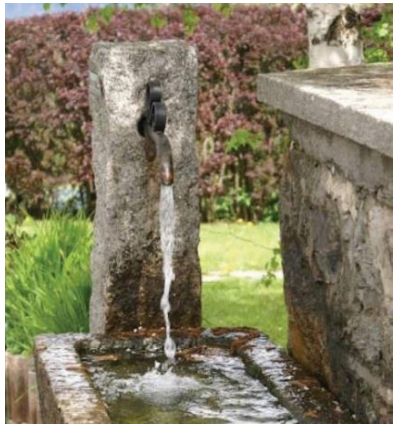
Demonstration Garden and Sensory Garden
- Precedent Imagery

RAIN BARREL at LEARNING CENTER

CISTERN AT RAINHUT



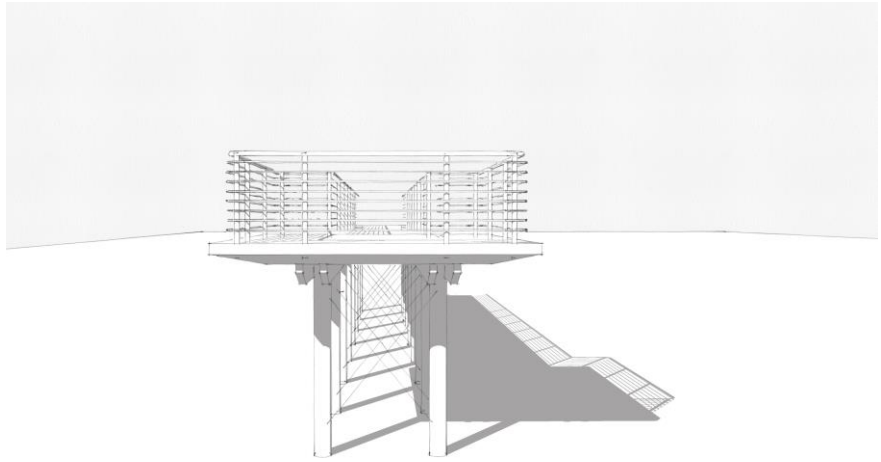
STONE PATH AT LEARNING CENTER



PRECEDENT IMAGE FOR ADAPTIVE REUSE
OF EXISTING TROUGH

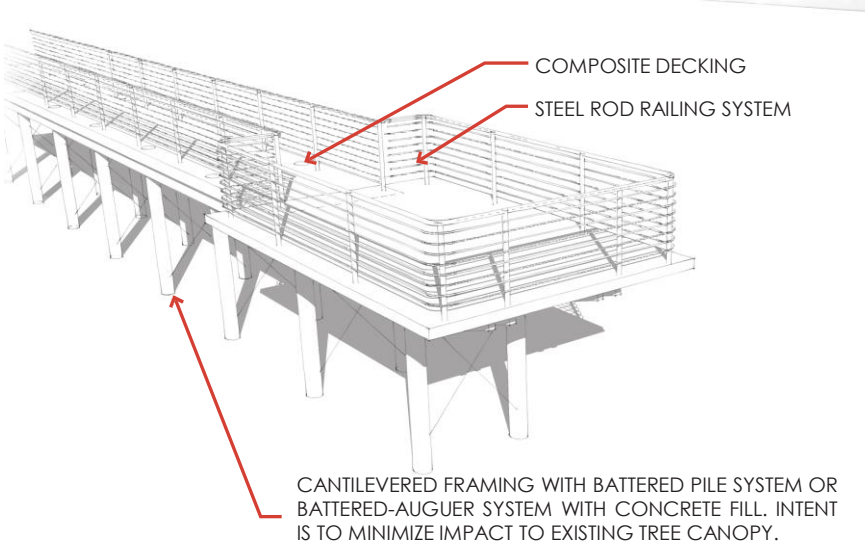




FRONT ELEVATION (LOOKS OUT OVER CREEK/TIDAL IMPOUNDMENT)

SIDE ELEVATION

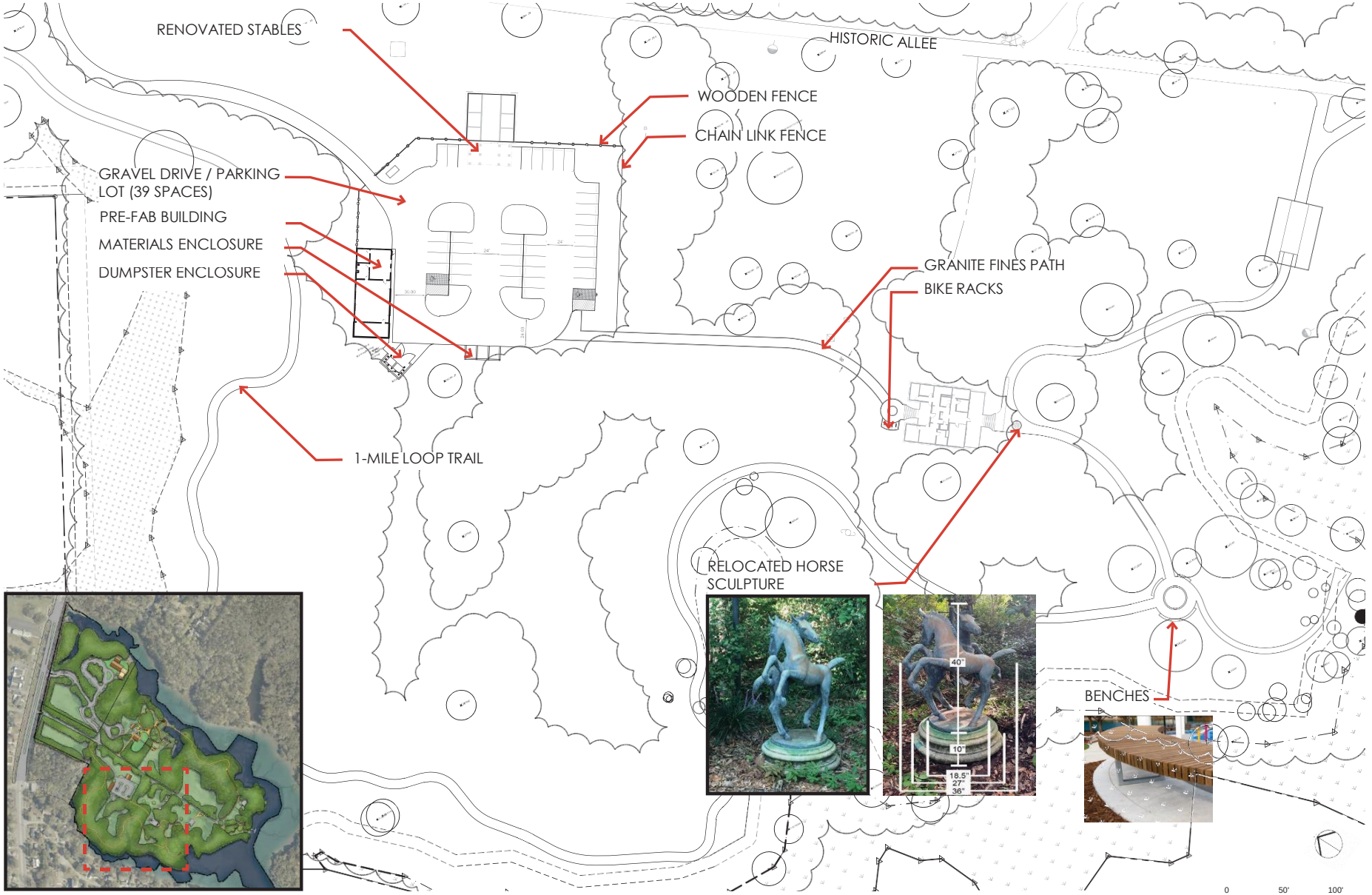


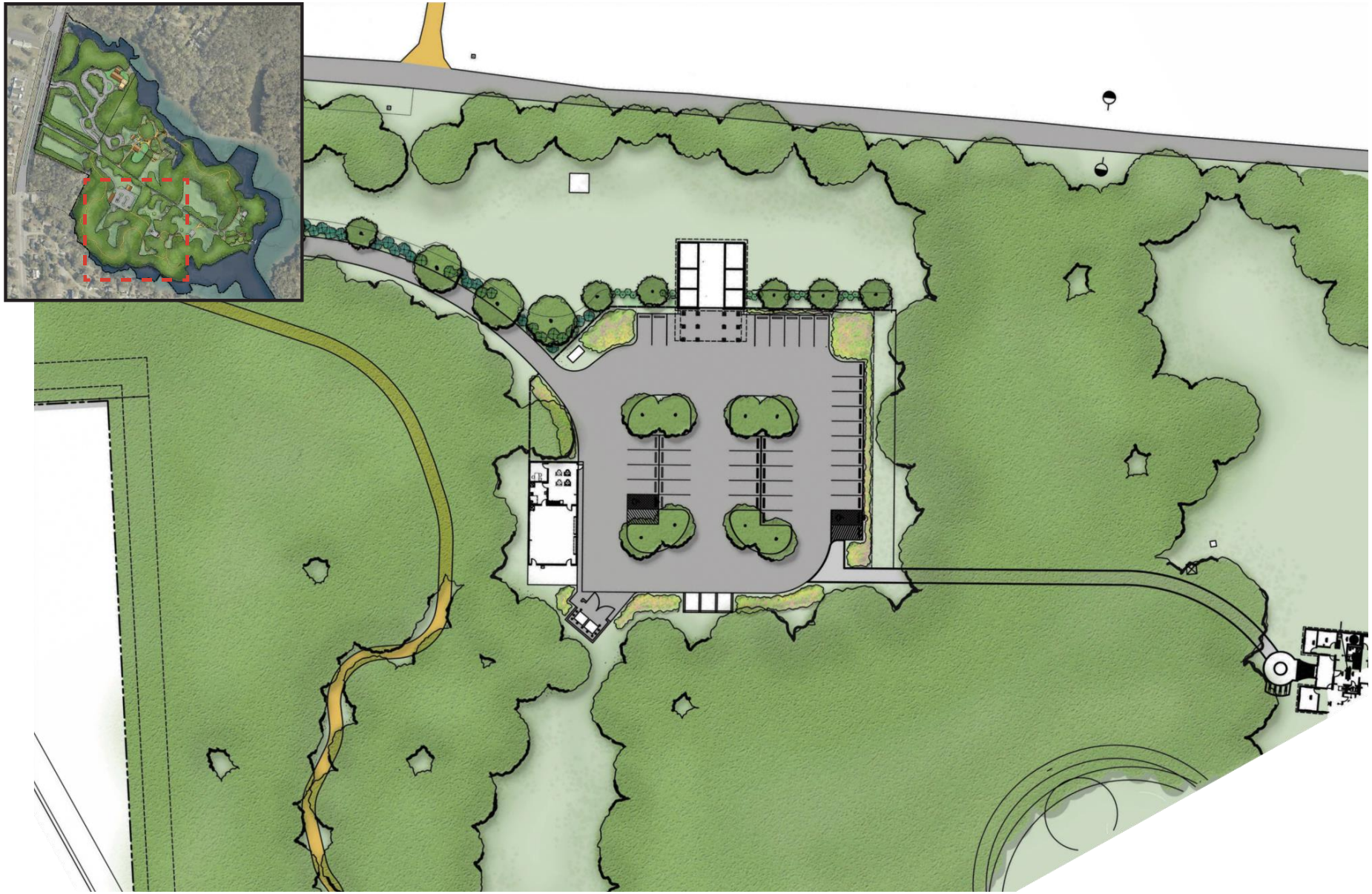
AERIAL

AREA ‘C’ + ‘D’

MAINTENANCE HUB AND MAIN HOUSE


NEW SECTION OF TRAIL - ONLY LAWNSOL REMOVAL FOR GRANITE FINES TRAIL
SELECTIVE CLEARING REQUIRED WITHIN THIS SECTION OF TRAIL (10' WIDE FOR 8' WIDE PATH)
0
50'
100'
1" = 50'


RENOVATED STABLES
HISTORIC ALLEE
WOODEN FENCE
CHAIN LINK FENCE
GRAVEL DRIVE / PARKING LOT (39 SPACES)
PRE-FAB BUILDING
MATERIALS ENCLOSURE
DUMPSTER ENCLOSURE
GRANITE FINES PATH
BIKE RACKS
1-MILE LOOP TRAIL
RELOCATED HORSE SCULPTURE
40"
10"
18.5"
27"
36"
BENCHES
0
50'
100'
1" = 50'

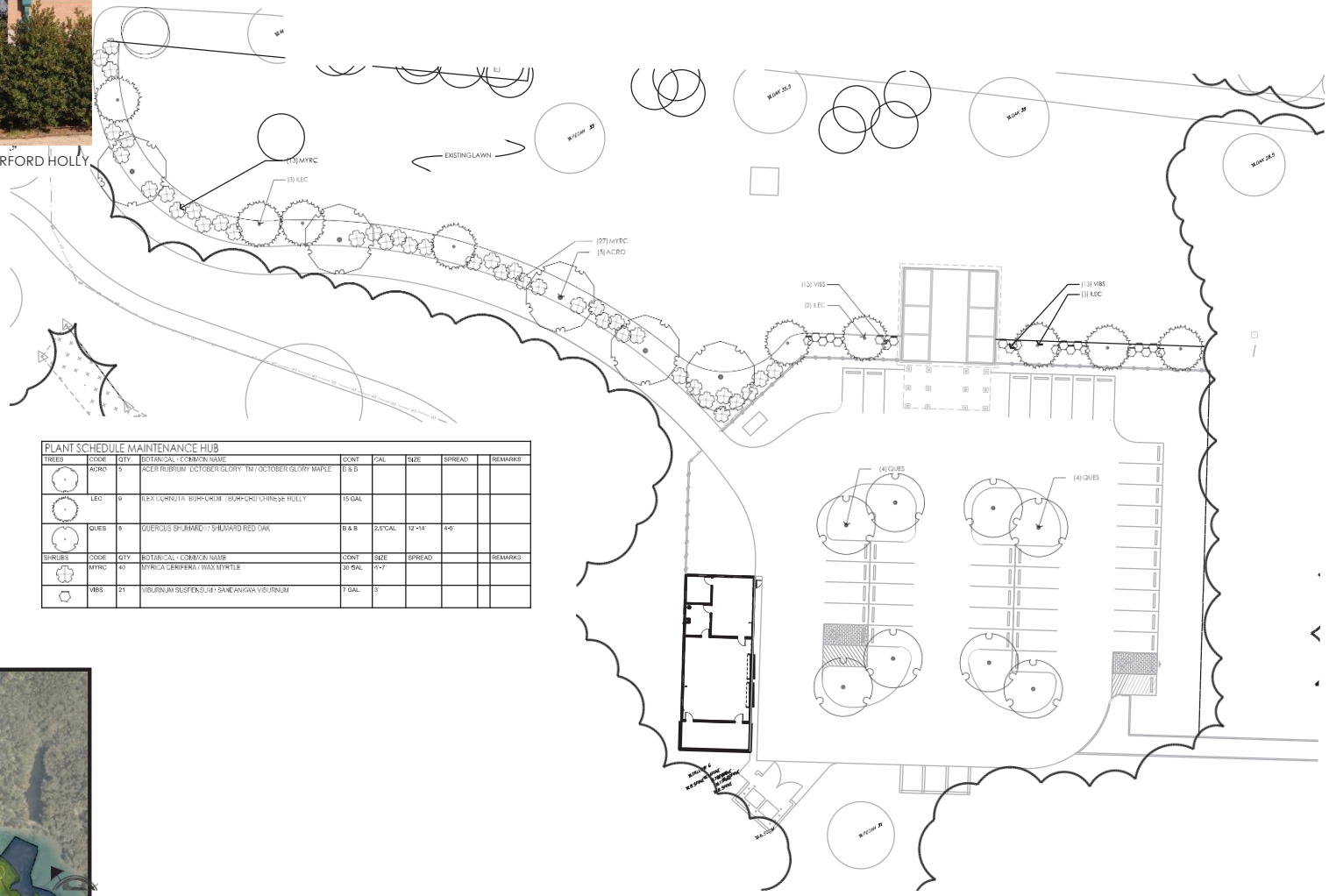


SHUMARD OAK

BURFORD HOLLY

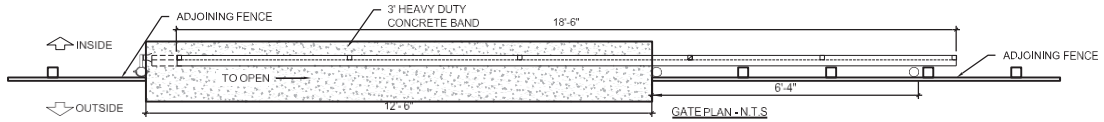
VIBURNUM

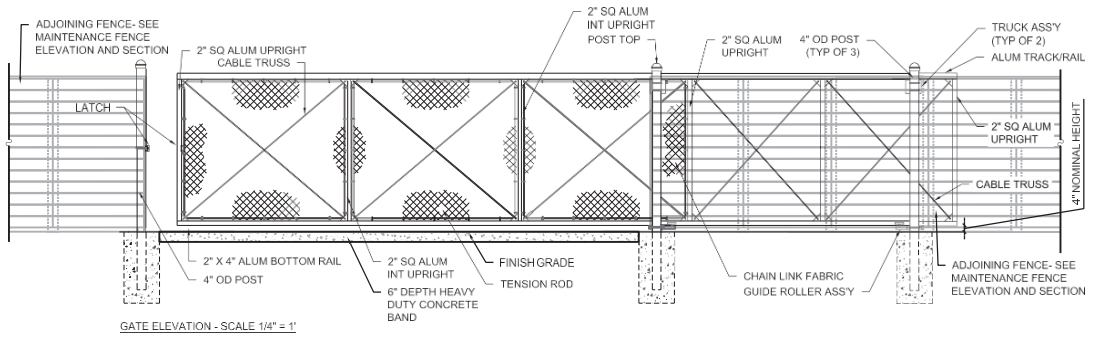
WAX MYRTLE



PLANT SCHEDULE MAINTENANCE HUB

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	SPREAD		REMARKS
	ACRO	5	ACER RUBRUM 'OCTOBER GLORY' TM / OCTOBER GLORY MAPLE	B & B					
	ILEC	9	ILEX CORNUTA 'BURFORDII' / BURFORD CHINESE HOLLY	15 GAL					
	QUES	8	QUERCUS SHUMARDII / SHUMARD RED OAK	B & B	2.5"CAL	12'-14'	4-5'		
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD			REMARKS
	MYRC	40	MYRICA CERIFERA / WAX MYRTLE	30 GAL	6'-7'				
	VIBS	21	VIBURNUM SUSPENSUM / SANDANKWA VIBURNUM	7 GAL	3'				

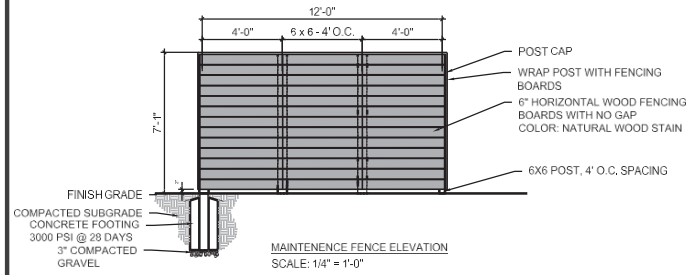




GATE ELEVATION - SCALE 1/4" = 1'

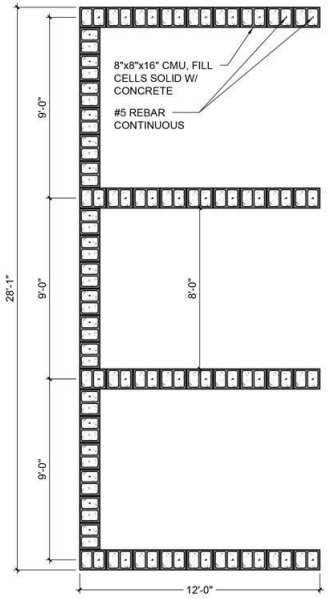
NOTES:
1. FOOTING WIDTH TO BE (4)X POST WIDTH. MIN DEPTH TO BE 36".
2. GATES WILL BE ELECTRONICALLY OPERATED.
3. BASIS OF DESIGN SURTRAC CANTILEVERED GATES BY MASTER HALCO OR APPROVED EQUAL

ELECTRONIC VEHICLE GATE

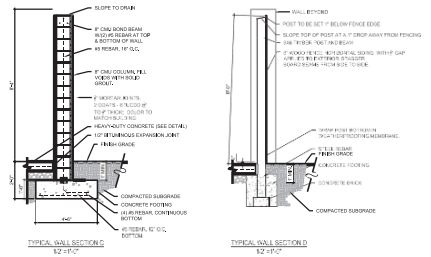


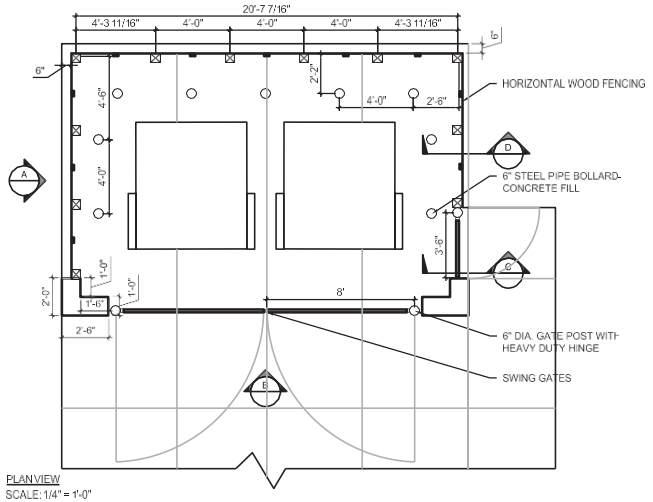
HORIZONTAL WOOD FENCE

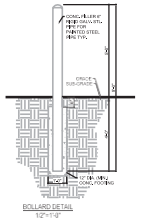
BENCH



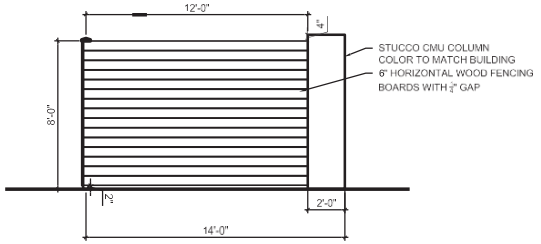
MATERIALS ENCLOSURE



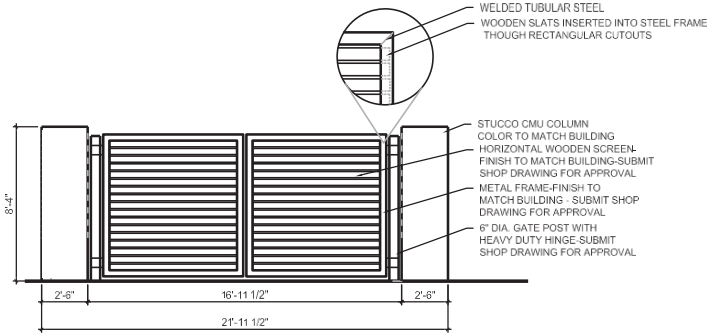




PLAN
SCALE: 1/4" = 1'-0"



SIDE ELEVATION A
SCALE: 1/4" = 1'-0"



DUMPSTER DETAILS AT MAINTENANCE AREA

FRONT ELEVATION B
SCALE: 1/4" = 1'-0"

DUMPSTER ENCLOSURE

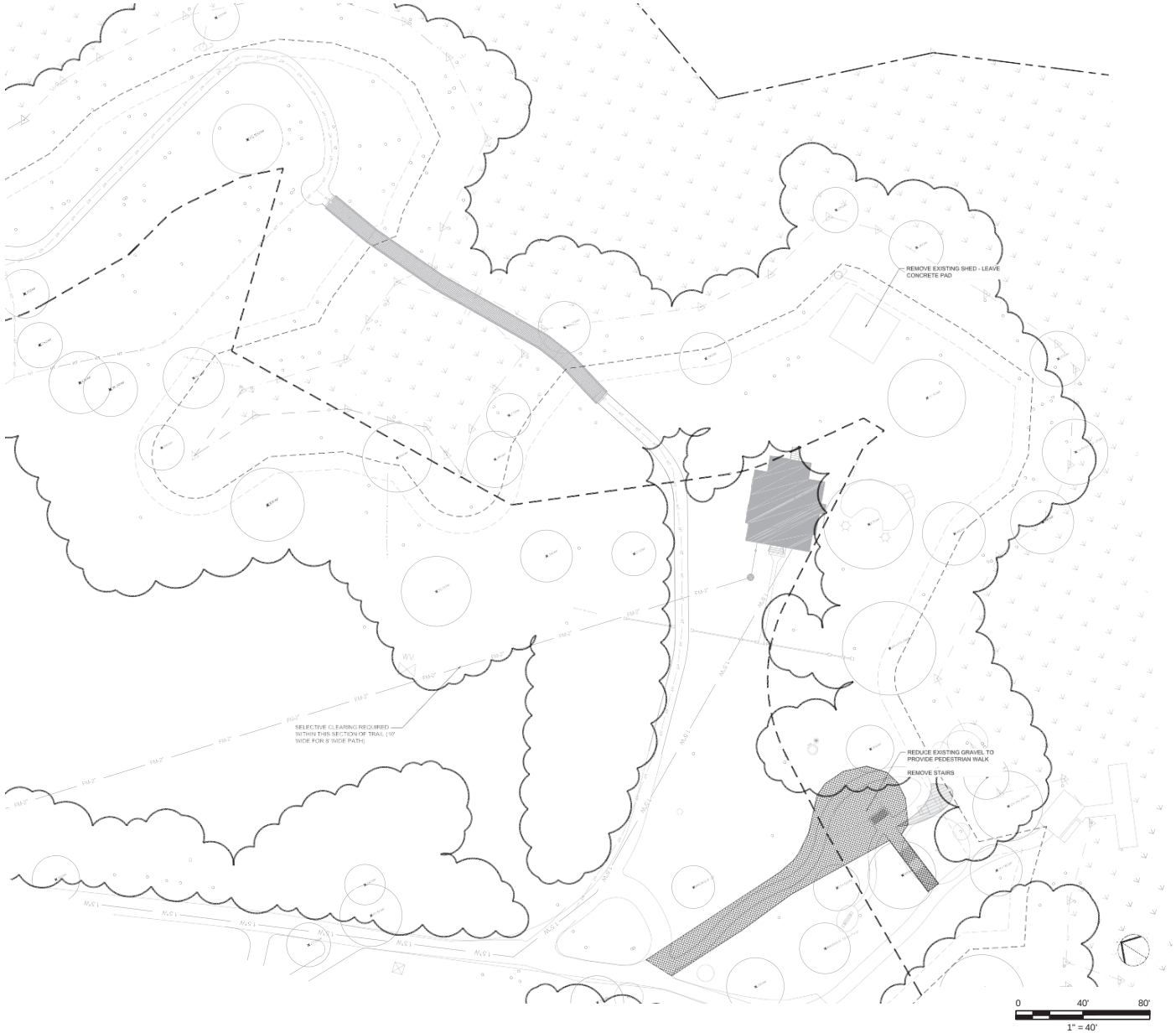

AREA ‘E’ + ‘F’
CARETAKERS AND BLUFF

2
4
3

PARK AREA E AND F | SITE AERIAL

2
4
5

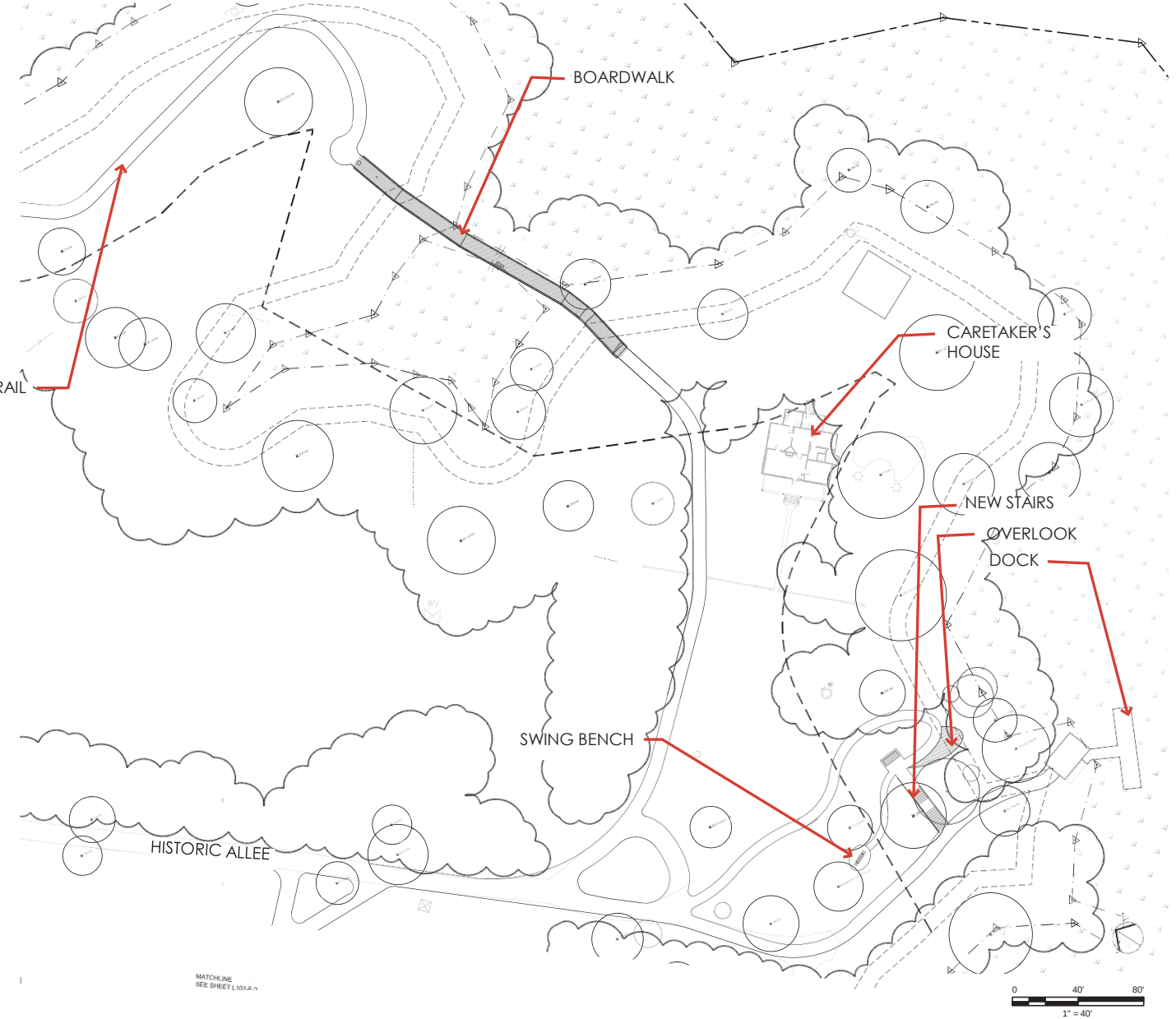
2
4
6



DESIGN REVIEW BOARD | SITE SUBMITTAL

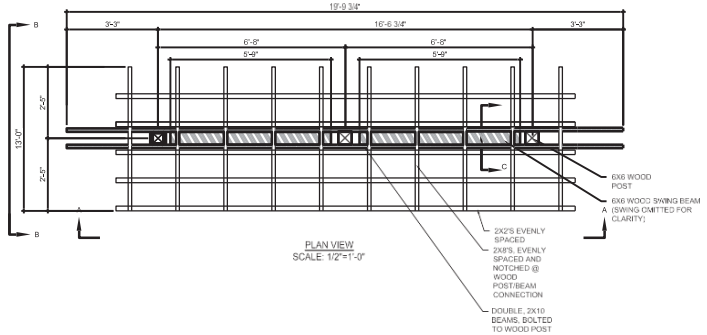
PARK AREA E AND F | DEMO PLAN

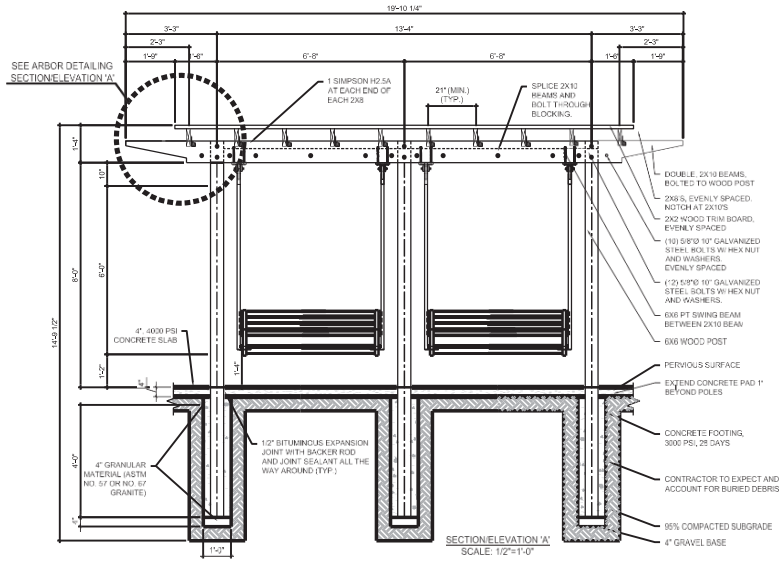
2
4
7



DESIGN REVIEW BOARD | SITE SUBMITTAL

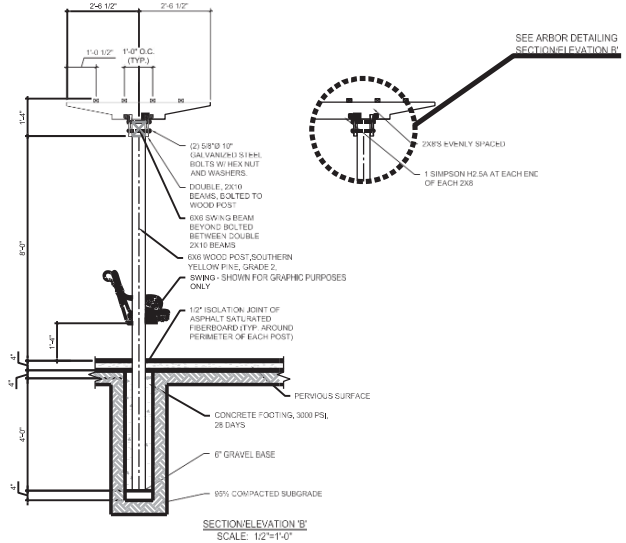
PARK AREA E AND F | SITE PLAN

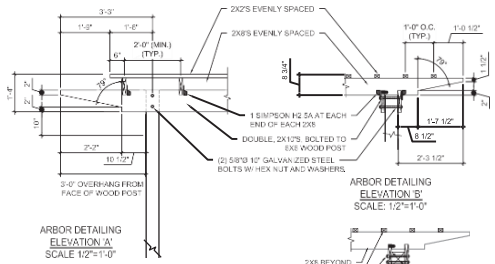


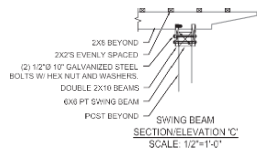


WOOD NOTES:
1. ALL WOOD MEMBERS SHALL BE NO. 1 SOUTHERN YELLOW PINE AND PRESERVATIVE TREATED TO AWPA COMMODITY STANDARDS UC4A OR BETTER, TO AT LEAST 0.15 LBS/CF OF RETENTION WITH COPPER AZOLE (CA-C) FOR "GROUND CONTACT" RESIDENTIAL CONSTRUCTION.
2. ALL JOIST HANGERS, HURRICANE TIES, AND OTHER METAL CONNECTORS SHALL BE "STRONG-TIE" GALVANIZED CONNECTORS AS MANUFACTURED BY SIMPSON COMPANY OR APPROVED EQUAL. ALL METAL CONNECTORS SHALL BE PAINTED TO MATCH WOOD FINISHES.
3. ALL BOLTS, NAILS, AND OTHER METAL CONNECTORS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION AND PAINTED TO MATCH WOOD FINISHES.
4. ALL WOOD MEMBERS TO BE PAINTED. CONTRACTOR TO SUBMIT MANUFACTURER'S RANGE OF COLORS FOR SELECTION AND APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.

BENCH NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SWING ATTACHMENT TO ARBOR.
2. REFER TO MANUFACTURER SPECIFICATIONS FOR RECOMMENDED INSTALLATION.

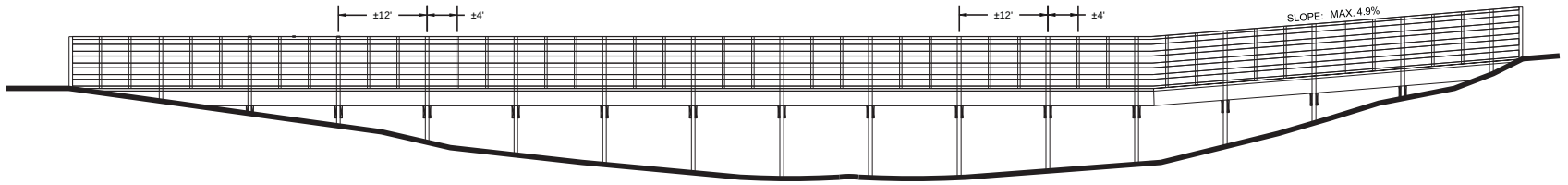




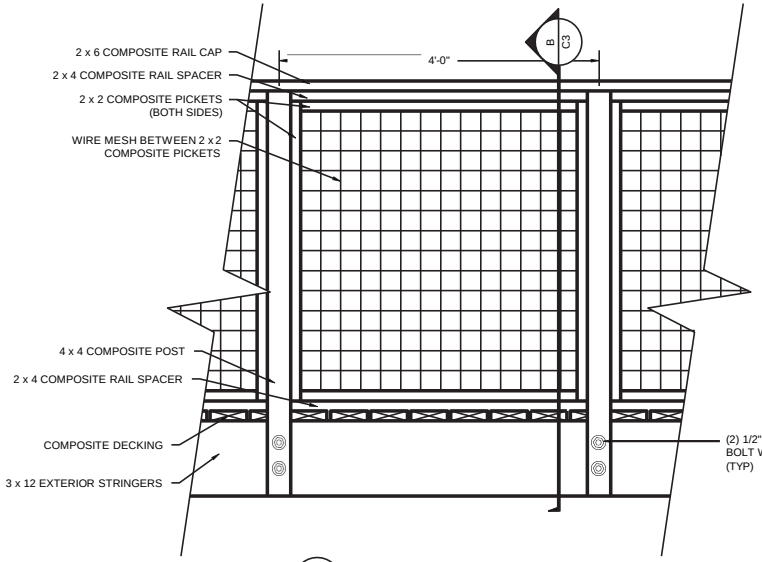


SWING BENCH

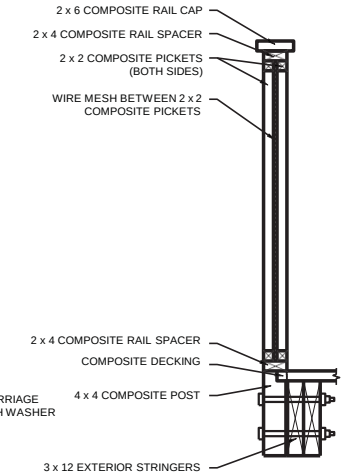
OVERALL LAYOUT PLAN
8' WIDE BOARDWALK SCALE: 1" = 30'



ELEVATION VIEW
8' WIDE BOARDWALK SCALE: 1" = 10'

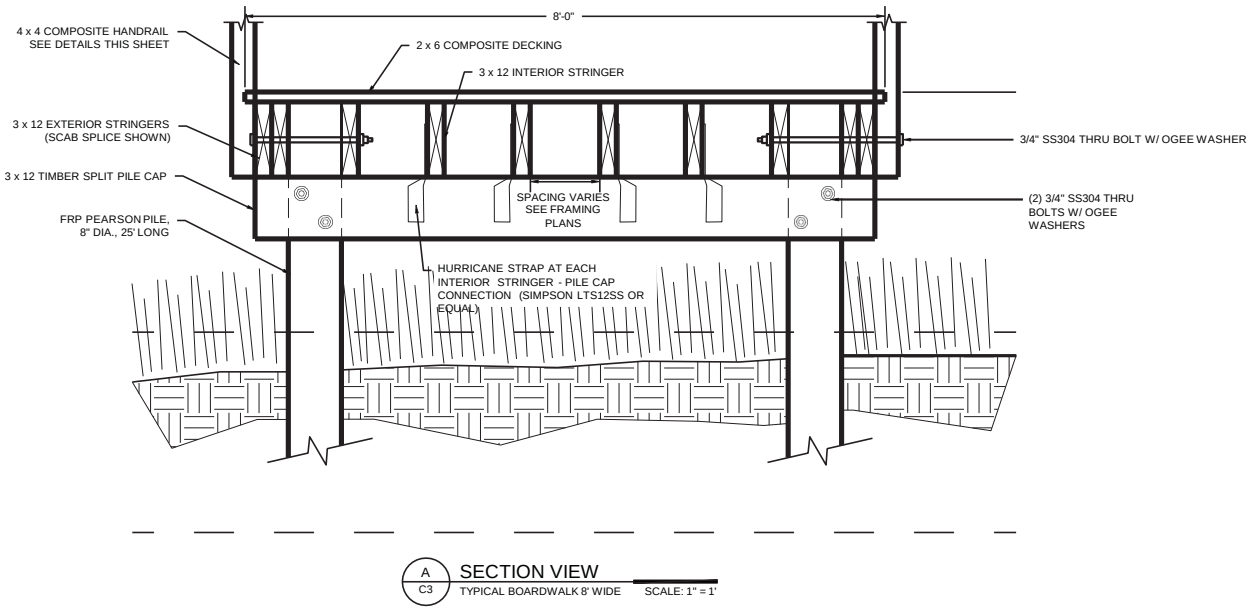


ELEVATION VIEW
TYPICAL BOARDWALK HANDRAIL SCALE: 1" = 1'



B / C3 CROSS SECTION
TYPICAL BOARDWALK HANDRAIL SCALE: 1" = 1'

APPROX. EXISTING



A / C3 SECTION VIEW
TYPICAL BOARDWALK 8' WIDE SCALE: 1" = 1'

VEHICULAR LIGHTING (20-22') AND
PEDESTRIAN LIGHTING (10-12')
THE EDGE SERIES OUTDOOR LIGHT
BY CREE LIGHTING

BOLLARD LIGHTING
GATE PATH LIGHT
BY WAC LIGHTING

SITE LIGHTING PLAN + FIXTURES

Agenda Item #5

1545 SAVANNAH HWY.

TMS #349-01-00-022

Deferred for staff review (building is under 3,000 s.f.)

Request conceptual approval for the construction of a new one story auto dealership.

Agenda Item #6

REVIEW AND APPROVE MINUTES FROM THE 8.17.20 MEETING