



*City of Charleston*  
*South Carolina*  
*Department of Public Service*

JOHN J. TECKLENBURG  
Mayor

THOMAS F. O'BRIEN  
Director  
of Public Service

**PUBLIC WORKS AND UTILITIES COMMITTEE  
AGENDA**

There will be a meeting of the Public Works and Utilities Committee on March 21, 2022 to begin at 3:30 pm. The following items will be heard via call-in number 1-929-205-6099 and access code 592 385 519:

**A. Invocation**

**B. Approval of Public Works and Utilities Committee Minutes**

1. **March 7, 2022 (Deferred)**

**C. Request to Set a Public Hearing**

None

**D. Old Business**

None

**E. Acceptance and Dedication of Rights-of-Way and Easements**

**F. Temporary Encroachments Approved by The Department of Public Service  
(For information only)**

1. **61 Iron Bottom Lane-** Installing irrigation in the City r/w. This encroachment is temporary.
2. **2755 Calico Bass Lane-** Installing a fence in a City drainage easement. This encroachment is temporary.
3. **3302 Zoe Street-** Installing a fence in a City drainage easement. This encroachment is temporary.
4. **1704 Drakeford Drive-** Installing a fence in a City drainage easement. This encroachment is temporary.
5. **209 Brailsford Street-** Installing irrigation in the City r/w. This encroachment is temporary.

6. **201 King George Street-** Installing irrigation in the City r/w. This encroachment is temporary.
7. **6184 Fieldstone Circle-** Installing a fence in a City Drainage easement.

#### **G. Public Service Department Update**

1. Presentation on Third Party Reviews for TRC Projects.
2. Approval of the Scope of Undergrounding for the Archer School. ***(To be distributed under separate cover)***

#### **H. Stormwater Management Department Update**

1. Update on Calhoun West Project *(Requested by Councilmember Mike Seekings)*
2. Update on Orleans Woods area and Dupont Wappoo Project *(Requested by Councilmember Keith Waring)*
3. Update on Cooper/Jackson (Upper East Side) Project
4. Discussion on Current Stormwater Capital Improvement Plan Project Allocations and the Drainage Fund Allocation Process
5. Request to allocate funding for the Lake Dotterer Outfall Project from the City Drainage Fund *(Requested by Councilmember Kevin Shealy)*

#### **I. Miscellaneous Business**

Councilmember Keith Waring,  
Chairperson

In accordance with the Americans with Disabilities Act, people who need alternative formats, ASL (American Sign Language) Interpretation or other accommodation please contact Janet Schumacher at (843) 577-1389 or email to [schumacherj@charleston-sc.gov](mailto:schumacherj@charleston-sc.gov) three business days prior to the meeting.

**BID FORM**  
**Page Four**

\*\*REVISED BID FORM 10/28/2021\*\*  
Lot A  
GLENN MCCONNELL PARKWAY

*NOTE: THE QUANTITIES LISTED HEREIN ARE ESTIMATES ONLY AND DO NOT CONSTITUTE ANY WARRANTY OR GUARANTEE BY THE COUNTY, AND SHOULD NOT BE RELIED UPON BY BIDDERS. ALL QUANTITIES MAY VARY. THE TOTALS REQUIRED ON THE BID FORM HEREIN ARE FOR INFORMAL COMPARISON ONLY.*

ITEM NO.	PAY ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE
1031000	MOBILIZATION	LS	NEC	\$700,000.00	\$700,000.00
1032010	BONDS AND INSURANCE	LS	1.000	\$250,000.00	\$250,000.00
1050800	CONSTRUCTION STAKES, LINES & GRADES	EA	1.000	\$700,000.00	\$700,000.00
1071000	TRAFFIC CONTROL	LS	NEC	\$850,000.00	\$850,000.00
1080300	CPM PROGRESS SCHEDULE	LS	1.000	\$39,861.15	\$39,861.15
1090200	AS-BUILT CONSTRUCTION PLANS	LS	1.000	\$50,000.00	\$50,000.00
2012000	CLEARING & GRUBBING WITHIN ROADWAY	LS	NEC	\$250,000.00	\$250,000.00
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	SY	2,928	\$4.40	\$12,883.20
2027801	REMOVAL OF EXIST. GUARDRAIL	LF	2,700.000	\$1.05	\$2,835.00
2031000	UNCLASSIFIED EXCAVATION	CY	20,791.000	\$11.00	\$228,701.00
2033000	BORROW EXCAVATION	CY	61,308.000	\$18.00	\$1,103,544.00
2034000	MUCK EXCAVATION	CY	5,810.000	\$11.85	\$68,848.50
2036020	GEOTEXTILE, SEPARATION	SY	9,573.000	\$1.60	\$15,316.80
2037030	GEOGRID STABILIZATION	SY	9,573.000	\$2.40	\$22,975.20
2052010	STONE BRIDGE LIFT MATERIAL	TON	3,530.000	\$59.40	\$209,682.00
2052000	NO. 57 STONE FOR BACKFILL	TON	150.000	\$65.15	\$9,772.50
2081001	FINE GRADING	SY	58,040.000	\$2.50	\$145,100.00
2103000	FLOWABLE FILL	CY	50.000	\$172.72	\$8,636.00
3021000	SOIL-AGGREGATE SUBBASE CR.- AGGR. NO. CR-14	TON	725.000	\$51.06	\$37,018.50
3050106	GRADED AGGREGATE BASE COURSE (6" UNIFORM)	SY	14,821.000	\$19.10	\$283,081.10
3063312	CEMENT MODIFIED RECYCLED BASE (12" UNIFORM)	SY	10,584.000	\$5.60	\$59,270.40
3064000	PORTLAND CEMENT FOR CEMENT MODIFIED RECYCLED BASE COURSE	TON	424.000	\$160.00	\$67,840.00
3069900	MAINTENANCE STONE	TON	380.000	\$79.85	\$30,343.00
3100310	HOT MIX ASPHALT BASE COURSE - TYPE A	TON	11,064.000	\$75.00	\$829,800.00
4010005	PRIME COAT	GAL	4,001.670	\$4.50	\$18,007.52
4011004	LIQUID ASPHALT BINDER PG64-22	TON	965.000	\$550.00	\$530,750.00
4011008	LIQUID ASPHALT BINDER PG76-22	TON	1,032.000	\$750.00	\$774,000.00
4012080	FULL DEP.ASPH.PAV.PATCH-8"UNIF	SY	1400.000	\$52.00	\$72,800.00
4013010	SURFACE PLANE ASPHALT PAVEMENT 1.0"	SY	112,100.000	\$1.25	\$140,125.00
4013099	SURFACE PLANE ASPHALT PAVEMENT VARIABLE	SY	5,605.000	\$1.50	\$8,407.50

4013300	MILLING EXISTING ASPHALT PAVEMENT 3.0"	SY	6,820.000		\$7,843.00
4019000	MILLED-IN RUMBLE STRIP	MI	6.430	\$1.15	\$10,474.47
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	TON	6,957.000	\$1,629.00	\$556,560.00
4030310	HOT MIX ASPHALT SURFACE COURSE TYPE A	TON	18,752.000	\$80.00	\$1,387,648.00
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	TON	1,483.000	\$74.00	\$126,055.00
4030360	HOT MIX ASPHALT SURFACE COURSE TYPE E	TON	140.000	\$85.00	\$19,320.00
4037000	HOT MIX ASPH. CONC. SURF. CR. FOR DITCH PAVING	TON	103.000	\$138.00	\$17,510.00
6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	SF	704.000	\$170.00	\$3,696.00
6052122	PORTABLE TERMINAL IMPACT ATTENUATOR-TEST LEVEL 3(60 MPH)	EA	2.000	\$5.25	\$21,525.00
605212B	ANCHOR KIT - PORT.	EA	2.000	\$10,762.50	\$5,985.00
6053110	TEMPORARY CONCRETE BARRIER	LF	2,950.000	\$2,992.50	\$115,640.00
6062000	CONSTRUCTION ZONE ELECTRIC CHANGEABLE MESSAGE SIGN	EA	2.000	\$39.20	\$16,000.00
6250007	6" WHITE BROKEN LINES -(GAPS EXCLUDED)-FAST DRY PAINT	LF	38,250.000	\$8,000.00	\$6,120.00
6250012	6" WHITE SOLID LINES (PVT. EDGE LINES)-FAST DRY PAINT	LF	93,330.000	\$0.16	\$14,932.80
6250015	8"WHITE SOLID	LF	9,420.000	\$0.16	\$4,710.00
6250020	12" WHITE SOLID LINES - FAST DRY PAINT	LF	300.000	\$0.50	\$315.00
6250025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	LF	15,750.000	\$1.05	\$16,537.50
6250030	WHITE SINGLE ARROW (LEFT, STRAIGHT, RIGHT)-FAST DRY PAINT	EA	183.000	\$1.05	\$2,882.25
6250035	WHITE WORD MESSAGE "ONLY"-FAST DRY PAINT	EA	162.000	\$15.75	\$2,551.50
6250040	WHITE COMBINATION ARROW(STR.& RT.OR STR.& LT.)FAST DRY PAINT	EA	15.000	\$15.75	\$236.25
6250107	6" YELLOW BROKEN LINES(GAPS EXC) - FAST DRY PAINT	LF	120.000	\$15.75	\$19.20
6250111	6"YELLOW SOLID LINE(PVT.EDGE&NO PASSING ZONE)-FAST DRY PAINT	LF	77,970.000	\$0.16	\$12,475.20
6250115	24" YELLOW DIAGONAL LINES - FAST DRY PAINT	LF	390.000	\$0.16	\$409.50
6262007	6" WHITE BROKEN LINES -(GAPS EXCLUDED) EPOXY PAINT	LF	322.000	\$1.05	\$837.20
6262012	6" WHITE SOLID LINES (PVT. EDGE LINES) EPOXY PAINT	LF	644.000	\$2.60	\$1,674.40
				\$2.60	

6262112	6"YELLOW SOLID LINES-PVT.EDGE&NO PASS. ZONE - EPOXY PAINT	LF	644.000		\$1,674.40
				\$2.60	
6271007	6" WHITE BROKEN LINES(GAPS EXCL.)THERMOPLASTIC- 90 MIL.	LF	12,428.000		\$11,185.20
				\$0.90	
6271012	6" WHITE SOLID LINES (PVT. EDGE LINES) THERMO.- 90 MIL.	LF	30,466.000		\$27,419.40
				\$0.90	
6271015	8" WHITE SOLID LINES THERMOPLASTIC - 125 MIL.	LF	3,140.000		\$9,106.00
				\$2.90	
6271020	12" WHITE SOLID LINES - THERMO. - 125 MIL.	LF	100.000		\$370.00
				\$3.70	
6271024	24IN X 36IN WHITE TRIANG. YIELD BAR (GAPS EXC)THERMO-125MIL	LF	20.000		\$315.00
				\$15.75	
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	LF	5,250.000		\$44,100.00
				\$8.40	
6271030	WHITE SINGLE ARROWS (LT, STRGHT, RT) THERMO.-125 MIL.	EA	61.000		\$5,444.25
				\$89.25	
6271035	WHITE WORD MESSAGE "ONLY" - THERMOPLASTIC - 125 MIL.	EA	54.000		\$5,670.00
				\$105.00	
6271040	WHITE COMBINATION ARROWS(STR&RT.OR STR&LT)THERMO-125MIL	EA	5.000		\$787.50
				\$157.50	
6271066	6" YELLOW BROKEN LINES(GAPS EXC)THERMOPLASTIC - 90 MIL.	LF	40.000		\$36.00
				\$0.90	
6271076	6" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	LF	25,346.000		\$22,811.40
				\$0.90	
6271080	24" YELLOW SOLID LINES - THERMOPLASTIC - 125 MIL.	LF	130.000		\$1,092.00
				\$8.40	
6300005	PERMANENT CLEAR PAVEMENT MARKERS- MONO-DIR.- 4"X4"	EA	700.000		\$5,530.00
				\$7.90	
6301100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	EA	170.000		\$1,343.00
				\$7.90	
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	SF	226.000		\$4,384.40
				\$19.40	
6510108	Flat Sheet, Type XI, Size Determined by MSG, Overhead	SF	220.000		\$6,820.00
				\$31.00	
6513020	F&I MOUNTING ASSEMBLY FOR F.S. SIGN ERCTD ON MAST ARM	EA	30.000		\$11,604.00
				\$386.80	
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	LF	500.000		\$4,450.00
				\$8.90	
675027C	FURNISH & INSTALL 3.0" SCHEDULE 80 PVC CONDUIT	LF	400.000		\$8,000.00
				\$20.00	
675027S	FURNISH & INSTALL 2.0" SCHD 80 PVC CONDUIT (DIRECTION.BORED)	LF	1,350.000		\$26,325.00
				\$19.50	
675027Z	FURNISH ADDITIONAL CONDUIT WITHIN DIRECTIONAL BORE	LF	1,350.000		\$9,315.00
				\$6.90	
6750275	FURNISH & INSTALL 1.0" SCHEDULE 80 PVC CONDUIT	LF	1,300.000		\$11,700.00
				\$9.00	
6750278	FURNISH & INSTALL 2.0" SCHEDULE 80 PVC CONDUIT	LF	10,900.000		\$118,810.00
				\$10.90	

6770388	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - BLACK	LF	9,000.000		\$27,000.00
				\$3.00	
6770389	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - GRAY	LF	11,000.000		\$34,650.00
				\$3.15	
6770393	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (BLACK)	LF	7,000.000		\$23,800.00
				\$3.40	
6770394	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (GRAY)	LF	5,000.000		\$17,500.00
				\$3.50	
6770413	FURNISH & INSTL NO. 14 COPPER WIRE, I-CONDUCTOR FOR LOOP WIRE	LF	11,900.000		\$8,330.00
				\$0.70	
6770506	F&I WIRELESS DETECTION SYSTEM	EA	3.000	\$41,221.35	\$123,664.05
6780495	SAWCUT FOR LOOP DETECTOR	LF	6,650.000	\$7.70	\$51,205.00
6800499	FURNISH & INSTALL ELECTRICAL SERVICE FOR TRAFFIC SIGNAL	EA	3.000		\$3,553.20
				\$1,184.40	
6800518	F&I-13"X24"X18"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	EA	60.000		\$28,035.00
				\$467.25	
680052C	F&I-17"X30"X26"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	EA	15.000		\$8,111.25
				\$540.75	
6825020	FURNISH & INSTALL - 35' WOOD POLE-CLASS II-CCA TR(0.60)	EA	30.000		\$24,027.00
				\$800.90	
6825045	FURNISH & INSTALL 3/8" BACK GUY FOR WOOD POLE	EA	30.000		\$10,867.50
				\$362.25	
6825092	FURNISH & INSTALL 3/8" GALVANIZED STEEL CABLE	LF	9,300.000		\$60,915.00
				\$6.55	
6825484	FURNISH & INSTALL 10' BREAK-AWAY ALUM PEDESTAL POLE AND BASE	EA	8.000		\$40,558.80
				\$5,069.85	
6845511	F&I - CONTR 332/336 CABINET ASSEMBLY - BASE MOUNTED	EA	3.000	\$15,695.60	\$47,086.80
6845518	FURNISH AND INSTALL BATTERY BACK-UP INCLUDING FOUNDATION	EA	3.000		\$28,301.85
				\$9,433.95	
6845520	FURNISH & INSTALL 2070L CONTROLLER UNIT IN EXISTING CABINET	EA	3.000		\$15,596.40
				\$5,198.80	
6845691	CLOSED CIRCUIT TV CAMERA-HIGHWAY USE	EA	3.000		\$17,840.85
				\$5,946.95	
6865710	FURNISH & INSTALL - 12" 5 SECTION SIGNAL HEAD	EA	3.000		\$3,239.40
				\$1,079.80	
6865720	FURNISH & INSTALL -12" 4 SECTION SIGNAL HEAD	EA	7.000		\$6,561.80
				\$937.40	
6865723	FURNISH & INSTALL - 12" 3 SECTION SIGNAL HEAD	EA	40.000		\$32,112.00
				\$802.80	
6865782	F&I - 1-WAY-1SECT.HAND/MAN COUNTDOWN PEDESTRIAN SIGNAL HEAD	EA	22.000		\$12,585.10
				\$572.05	

6865797	F&I-PED PUSH BUT.SOLID STATE W/ LIGHT&TONE ASSEM 9"X15"&SIGN (R- 10-3E or R10-4a)	EA	22.000		\$8,831.90
				\$401.45	
6865831	F&I VEHICLE TRAFFIC SINGAL HEAD MOUNTING ASSEMBLY FOR MAST ARM	EA	50.000		\$20,205.00
				\$404.10	
6865834	BACKPLATE W/ RETROREFL.BORDERS FOR TRAFF. SIG.	EA	50.000		\$9,910.00
				\$198.20	
6885982	REMOVE FOUNDATION OF STEEL STRAIN POLE - 18" BELOW GRADE	LS	9.000		\$23,625.00
				\$2,625.00	
6885990	REMOVAL,SALVAGE,&DISP.OF EXISTING TRAF. SIGNAL EQUIPMENT	LS	1.000		\$9,870.00
				\$9,870.00	
6885992	TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT	LS	1.000		\$28,980.00
				\$28,980.00	
6886040	F&I - VIDEO DETECTION SYSTEM W/ ONE CAMERA, HARDWARE & LEAD-IN	EA	23.000		\$140,569.10
				\$6,111.70	
6886072	INSTALL SPREADSPECTRUM RADIO ASSEM WITH OMNI DIRECT.ANTENNA	EA	3.000		\$22,386.45
				\$7,462.15	
6887951	FURNISH & INSTALL CONCRETE CABINET FOUNDATION	EA	4.000		\$6,006.00
				\$1,501.50	
6888163	DESIGN MAST ARM FOUNDATION	EA	13.000		\$16,380.00
				\$1,260.00	
6888167	POWDERCOATING PER MAST ARM OVER GALVANIZED	EA	18.000		\$34,020.00
				\$1,890.00	
6888168	DECORATIVE OPTION PER MAST ARM	EA	18.000		\$50,652.00
				\$2,814.00	
6888172	DESIGN,FURNISH,INSTALL STEEL POLE W/ MAST ARM W/O FOUNDATION	EA	8.000		\$338,589.20
				\$42,323.65	
6888173	SOIL BORING - UTILITY REVIEW FOR MAST ARM DESIGN PER QUADRANT	EA	11.000		\$24,809.40
				\$2,255.40	
6888174	INSTALL FOUNDATION FOR MAST ARM INCLUDING CONCRETE AND REBAR	CY	130.000		\$141,771.50
				\$1,090.55	
6888178	DESIGN, FURNISH & INSTALL STEEL POLE WITH TWIN MAST ARMS WITHOUT FOUNDATION	EA	5.000		\$258,772.50
				\$51,754.50	
6888194	POWDERCOATING OPTION FOR 10' ALUMINUM PEDESTAL POLE	EA	8.000		\$2,721.60
				\$340.20	
7031200	REINF. STEEL FOR STRUCTURES (BRIDGE)	LB	6,224.000		\$13,070.40
				\$2.10	
7051100	CONCRETE BRIDGE MEDIAN BARRIER	LF	322.000		\$59,167.50
				\$183.75	
7052010	ALUMINUM 1-TUBE BRIDGE RAILING	LF	294.400		\$63,001.60
				\$214.00	
7055020	ALUMINUM PIPE HANDRAILING	LF	13.000		\$982.80
				\$75.60	

7141142	19"X 30" HORIZONTAL ELLIPTICAL(HE) RC PIPE CUL.-CLASS HE-III	LF	56.000		\$9,673.44
				\$172.74	
7141146	29"X 45" HORIZONTAL ELLIPTICAL(HE) RC PIPE CUL.-CLASS HE-III	LF	192.000		\$29,137.92
				\$151.76	
7143615	15" SMOOTH WALL PIPE	LF	120.000	\$82.18	\$9,861.60
7143618	18" SMOOTH WALL PIPE	LF	666.000	\$78.11	\$52,021.26
7143624	24" SMOOTH WALL PIPE	LF	504.000	\$78.49	\$39,558.96
7143630	30" SMOOTH WALL PIPE	LF	856.000	\$97.04	\$83,066.24
7143636	36" SMOOTH WALL PIPE	LF	798.000	\$120.53	\$96,182.94
7191005	CATCH BASIN -TYPE I CB - TYPE I	EA	1.000	\$3,788.58	\$3,788.58
7191205	CATCH BASIN -TYPE 9	EA	7.000	\$3,284.58	\$22,992.06
7191515	CATCH BASIN TYPE 25 - SINGLE 5' BOX	EA	4.000		\$20,453.20
				\$5,113.30	
7191605	CATCH BASIN -TYPE 16	EA	1.000	\$4,503.06	\$4,503.06
7192020	DROP INLET (24" X 36")	EA	11.000	\$3,259.28	\$35,852.08
7192040	DROP INLET TYPE 112	EA	7.000	\$5,051.11	\$35,357.77
7192105	MANHOLE	EA	10.000	\$3,738.84	\$37,388.40
719228Z	JUNCTION BOX (SPECIAL) 36"X90"	EA	2.000	\$5,978.69	\$11,957.38
7195500	WATER QUALITY STRUCTURE (48"X48")	EA	3.000		\$19,279.62
				\$6,426.54	
719550A	WATER QUALITY STRUCTURE (36"X90")	EA	2.000		\$15,916.44
				\$7,958.22	
7197052	CONCRETE COLLAR FOR UP TO 24" PIPE	EA	14.000		\$37,961.28
				\$2,711.52	
7197053	CONCRETE COLLAR FOR UP TO 36" PIPE	EA	10.000		\$28,020.40
				\$2,802.04	
7198420	MANHOLE-CONVERT D.I. 24"X 36"	EA	1.000	\$3,187.78	\$3,187.78
7199100	BEVELING OF PIPE END	EA	46.000	\$207.06	\$9,524.76
7199200	4' SLOPE FLUME (6" CURB STYLE WITH CUTOFFS)	LF	14.000		\$7,350.00
				\$525.00	
7203130	CONCRETE CURB AND GUTTER(1'-6") OGEE	LF	20.000		\$735.00
				\$36.75	
7203210	CONCRETE CURB AND GUTTER(2'-0") VERTICAL FACE	LF	980.000		\$37,044.00
				\$37.80	
7204100	CONCRETE SIDEWALK(4" UNIFORM)	SY	1,470.000		\$100,327.50
				\$68.25	
7204900	DETECTABLE WARNING MATERIAL	SF	37.500		\$2,559.38
				\$68.25	
7206000	CONCRETE MEDIAN	SY	805.000	\$99.75	\$80,298.75
7206100	CONCRETE MEDIAN OVERLAY	SY	43.000	\$105.00	\$4,515.00
7209000	PEDESTRIAN RAMP CONSTRUCTION	SY	75.000	\$236.25	\$17,718.75
7209100	SURFACE APPLIED DETECTABLE WARNING	SF	360.000		\$28,350.00
				\$78.75	
8034120	12" PIPE SLOPE DRAIN	LF	212.000	\$39.72	\$8,420.64
8041020	RIP-RAP (CLASS B)	TON	888.000	\$120.00	\$106,560.00
8048210	GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP(CLASS 2)TYPE C	SY	1,241.000		\$2,916.35
				\$2.35	



8051050	STEEL BEAM GUARDRAIL W-BEAM SYSTEM	LF	887.500		\$24,228.75
				\$27.30	
8051710	MB TRAILING END TREATMENT	EA	2.000	\$1,995.00	\$3,990.00
8052100	MGS3 GR STANDARD SHOULDER	LF	2,575.000	\$28.35	\$73,001.25
8053250	PREMASH THRIEBEAM BRIDGE CONN TBBC3	EA	1.000		\$2,520.00
				\$2,520.00	
8057100	PREMASH TYPE T TL3 LEADING 50'	EA	2.000	\$2,992.50	\$5,985.00
8057350	2' CRASH CUSHION 3A	EA	1.000	\$27,825.00	\$27,825.00
8058053	36SS REINFORCED BARRIER WALL	LF	1,725.000	\$152.25	\$262,631.25
8058054	46SS REINFORCED BARRIER WALL	LF	20.000	\$420.00	\$8,400.00
8100100	PERMANENT COVER	ACRE	32.100	\$1,417.50	\$45,501.75
8100200	TEMPORARY COVER	ACRE	16.100	\$945.00	\$15,214.50
8104005	FERTILIZER (NITROGEN)	LB	3,209.000	\$3.25	\$10,429.25
8104010	FERTILIZER (PHOSPHORIC ACID)	LB	3,209.000	\$3.25	\$10,429.25
8104015	FERTILIZER (POTASH)	LB	3,209.000	\$3.25	\$10,429.25
8104100	FERTILIZER(10-10-10)	TON	0.230	\$892.50	\$205.28
8105005	AGRICULTURAL GRANULAR LIME	LB	64,173.000	\$0.50	\$32,086.50
8109050	SELECTIVE WATERING	GAL	871,138.000	\$0.10	\$87,113.80
8109901	MOWING	ACRE	97.000	\$315.00	\$30,555.00
811114G	LAGERSTROEMIA INDICA "NATCHEZ" 6'	EA	5.000		\$918.75
				\$183.75	
8111185	SABAL PALMETTO 12' - 15	EA	70.000	\$262.50	\$18,375.00
8151110	TEMPORARY EROSION CONTROL BLANKET (ECB)	MSY	23.871		\$42,609.74
				\$1,785.00	
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	ACRE	64.172		\$185,296.65
				\$2,887.50	
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	LF	30.000		\$660.00
				\$22.00	
8152006	INLET STRUCTURE FILTER - TYPE F (NON-WEIGHTED)	LF	1,105.000		\$17,127.50
				\$15.50	
8152007	SEDIMENT TUBES FOR DITCH CHECKS	LF	2,848.000		\$42,435.20
				\$14.90	
8153000	SILT FENCE	LF	33,210.000	\$2.40	\$79,704.00
8153090	REPLACE/REPAIR SILT FENCE	LF	3,321.000	\$2.90	\$9,630.90
8154010	CLEANING SILT BASINS	CY	8,384.000	\$7.80	\$65,395.20
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	LF	8,303.000		\$23,995.67
				\$2.89	
8156205	INLET STRUCTURE FILTER - TYPE D1	EA	19.000		\$11,643.20
				\$612.80	
8156210	INLET STRUCTURE FILTER - TYPE B	EA	6.000	\$235.00	\$1,410.00
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	TON	9.000		\$917.10
				\$101.90	
8156490	STABILIZED CONSTRUCTION ENTRANCE	SY	1,650.000		\$34,072.50
				\$20.65	
S0000001	BRASCO SUNLINE SERIES BUS SHELTER MATERIALS AND LABOR - EQUIVALENT OR BETTER	EA	7.000		\$224,057.40
				\$32,008.20	
S0000002	2-BIKE INVERTED 'U' BIKE RACK 36"H X 25-5/8"W	EA	14.000		\$14,753.20
				\$1,053.80	
S0000003	42" SAFETY RAIL	LF	8,842.000	\$75.60	\$668,455.20
S0000004	MAGNOLIA VIRGINIANA	EA	36.000	\$252.00	\$9,072.00

S0000005	CHIONANTHUS VIRGINICUS	EA	16.000	\$220.50	\$3,528.00
S0000006	DIANELLA TASMANICA 'VARIEGATA' (1" CAL.)	SF	341.000	\$10.50	\$3,580.50
S0000007	LIRIOPE MUSCARI 'EMERALD GODDESS' (3" CAL.)	EA	774.000	\$8.90	\$6,888.60
S0000008	LOMANDRA LONGIFOLLA 'BREEZE' TM (3" CAL.)	EA	243.000	\$9.45	\$2,296.35
S0000009	MUHLENBERGIA FILIPES (3 GAL.)	EA	421.000	\$21.00	\$8,841.00
S0000014	PLUMBAGO AURICULATA	EA	51.000	\$31.50	\$1,606.50
S0000015	SABAL MINOR / DWARF PALMETTO	EA	7.000	\$341.25	\$2,388.75
S0000016	RUSSELIA EQUISETIFORMIS	EA	156.000	\$12.60	\$1,965.60
S0000017	SALVIA LEUCANTHA	EA	190.000	\$26.25	\$4,987.50
S0000018	SERENOA REPENS 'CINEREA'	EA	16.000	\$288.75	\$4,620.00
S0000019	DIETES IRIDIOIDES	SF	321.000	\$31.50	\$10,111.50
S0000020	HELIANTHUS DEBILIS	SF	577.000	\$11.55	\$6,664.35
S0000021	PINEBARK MULCH	SF	4,318.000	\$0.89	\$3,843.02
S0000022	ROSA X 'MEIJOCOS' TM	SF	655.000	\$31.50	\$20,632.50
S0000023	TURF SEED	SF	280.000	\$1.05	\$294.00
S0000024	LAGERSTROEMIA (INDICA x FAURIEI) "MIAMI" 6'	EA	14.000	\$183.75	\$2,572.50
S0000025	LAGERSTROEMIA (INDICA x FAURIEI) "TUSKEGEE" 6'	EA	24.000	\$183.75	\$4,410.00
S0000026	DESIGN/BUILD IRRIGATION SYSTEM	LS	1.000	\$68,250.00	\$68,250.00
S0000029	WIRE FROM CAMERA TO CONTROLLER	LF	12,300.000	\$3.60	\$44,280.00
				Total	\$15,415,027.37

**BID FORM**  
**Page Four**

*Lot B*  
**CITY OF CHARLESTON**  
**LAKE DOTTERER ALTERNATIVE OUTFALL PROJECT**

<i>Description of item</i>	<i>QTY</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Extended Price</i>
Bonds, Insurance, & Mobilization (3%)	1	LS	\$51,500.00	\$51,500.00
Silt Fence	700	LF	\$2.90	\$2,030.00
Removing Vegetation	0.25	AC	\$42,000.00	\$10,500.00
Install Temporary Mats	800	LF	\$77.25	\$61,800.00
Construction Entrance	232	SY	\$19.76	\$4,584.32
Temporary Fill	500	CY	\$20.74	\$10,370.00
Boom & Turbidity Curtain	150	LF	\$31.50	\$4,725.00
Articulated Mat	1,400	SF	\$31.50	\$44,100.00
Sheet Piling w/ Wales (U/S & D/S)	7,650	SF	\$56.80	\$434,520.00
Dewatering (U/S & D/S)	21	Day	\$1,128.10	\$23,690.10
Construction Survey & Staking	1	LS	\$4,716.90	\$4,716.90
Traffic Control	1	LS	\$9,775.59	\$9,775.59
Portable Terminal Impact Attenuator 3 Bay 2.5 ft Wide	2	EA	\$10,762.50	\$21,525.00
Concrete Barriers	1,060	LF	\$39.20	\$41,552.00
Remove and Replace Guard Rail	200	LF	\$31.50	\$6,300.00
Removal of Abandoned DIP Water Main	68	LF	\$682.50	\$46,410.00
Relocation of active 12" DIP Water Main	68	LF	\$2,332.00	\$158,576.00
Relocation of Electrical Utility (Allowance)	1	LS	\$75,000.00	\$75,000.00
Prepare Jacking Pit	420	CY	\$153.00	\$64,260.00
Jack & Bore (3) 54" Steel Casing	600	LF	\$2,080.75	\$1,248,450.00
Install (3) 42" Hobas Pipe	600	LF	\$334.00	\$200,400.00
Grout Annular Space	141	CY	\$292.00	\$41,172.00
CCTV Inspection	600	LF	\$6.85	\$4,110.00
Plug/Cap Both Ends	6	EA	\$1,201.00	\$7,206.00
Record Drawings	1	LS	\$3,084.71	\$3,084.71
			<b>TOTAL</b>	<b>\$2,580,357.62</b>