

**14th Street Drainage Improvement Project
Hazard Mitigation Grant Program
FEMA Project No: DR-4332-0024**

*City of Galveston
Galveston, TX
5/14/2021
Prepared By:*



**100% Design Submittal
Opinion of Probable Construction Cost - Summary Sheet**

Cost Category	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
DIVISION 01: GENERAL REQUIREMENTS	\$ 6,577,754	\$ 97,501	\$ 6,480,253
DIVISION 02: SITE WORK	\$ 16,331,370	\$ 73,054	\$ 16,258,316
DIVISION 03: CONCRETE	\$ 3,211,629	\$ 336,036	\$ 2,875,593
DIVISION 05: METALS	\$ 888,413	\$ 76,680	\$ 811,733
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	\$ 22,500	\$ 959	\$ 21,542
DIVISION 07: THERMAL AND MOISTURE PROTECTION	\$ 210,060	\$ 44,743	\$ 165,317
DIVISION 08: OPENINGS	\$ 232,830	\$ 9,585	\$ 223,245
DIVISION 09: FINISHES	\$ 136,620	\$ 2,760	\$ 133,860
DIVISION 10: SPECIALTIES	\$ 17,186	\$ 785	\$ 16,400
DIVISION 11: EQUIPMENT	\$ 630,000	\$ -	\$ 630,000
DIVISION 12: FURNISHINGS	\$ 540	\$ -	\$ 540
DIVISION 22: PLUMBING	\$ 152,137	\$ 10,800	\$ 141,337
DIVISION 23: MECHANICAL	\$ 235,674	\$ 46,020	\$ 189,654
DIVISION 26: ELECTRICAL	\$ 2,920,695	\$ 45,939	\$ 2,874,756
DIVISION 27: COMMUNICATIONS	\$ 663,912	\$ 27,352	\$ 636,560
DIVISION 28: SAFETY AND SECURITY	\$ 85,500	\$ 18,212	\$ 67,289
DIVISION 31: EARTHWORK	\$ 1,862,631	\$ 148,721	\$ 1,713,910
DIVISION 33: UTILITIES	\$ 252,180	\$ -	\$ 252,180
DIVISION 35: WATERWAY AND MARINE CONTRUCTION	\$ 2,108,700	\$ -	\$ 2,108,700
DIVISION 41: MATERIAL PROCESSING AND HANDLING EQUIPMENT	\$ 108,000	\$ -	\$ 108,000
Construction Subtotal	\$ 36,648,330	\$ 939,145	\$ 35,709,185
5% Contingency	\$ 1,832,416	\$ 46,957	\$ 1,785,459
Total Estimated Construction Cost	\$ 38,480,746	\$ 986,102	\$ 37,494,645

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**100% Design Submittal
Opinion of Probable Construction Cost**

DIVISION 01: GENERAL REQUIREMENTS								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
1	Mobilization	01505	1	EA	\$765,000.00	\$765,000	\$18,207	\$746,793
2	Implement Traffic Control	01570	1	EA	\$585,000.00	\$585,000	\$0	\$585,000
3	Install Concrete Low Profile Traffic Barrier	01570	9,325	LF	\$18.00	\$167,850	\$0	\$167,850
4	Relocate Concrete Low Profile Traffic Barrier	01570	10,503	LF	\$9.00	\$94,527	\$0	\$94,527
5	Remove Concrete Low Profile Traffic Barrier	01570	9,325	LF	\$9.00	\$83,925	\$0	\$83,925
6	Trench Safety	01526	16,762	LF	\$6.30	\$105,601	\$0	\$105,601
7	Tree Protection	01535	97	EA	\$225.00	\$21,825	\$0	\$21,825
8	Inlet Protection Barriers, Ph I & Ph II	01566	117	EA	\$90.00	\$10,530	\$0	\$10,530
9	Dewatering storm	01563	16,762	LF	\$36.00	\$603,432	\$0	\$603,432
10	Dewatering sanitary	01563	2,870	LF	\$27.00	\$77,490	\$0	\$77,490
11	Dewatering water	01563	5,304	LF	\$27.00	\$143,208	\$0	\$143,208
12	Temporary Retaining Structures (14th and 15th Street Outfall)	015300	2	EA	\$45,000.00	\$90,000	\$0	\$90,000
13	Temporary Retaining Structures (Wet Well and Pump Station Site)	015300	1	EA	\$495,000.00	\$495,000	\$0	\$495,000
14	Project Identification Sign	01580	1	EA	\$2,700.00	\$2,700	\$0	\$2,700
15	Contractor Overhead and Profit (10%)	-	1	-	\$3,331,666.34	\$3,331,666	\$79,294	\$3,252,373
DIVISION 01: GENERAL REQUIREMENTS - SUBTOTAL						\$6,577,754	\$97,501	\$6,480,253
DIVISION 02: SITE WORK								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
SITE WORK - Gravity System Improvements (15th, 16th, Harborside, Strand, Market, Winnie, Sealy, and Ave K)								
DEMOLITION ITEMS								
1	Removal of Buried Rail Lines	02076	800	LF	\$31.50	\$25,200	\$0	\$25,200
2	Removal of Trolley Tracks	02076	60	LF	\$90.00	\$5,400	\$0	\$5,400
3	Full Depth Pavement Removal	02076	25,006	SY	\$13.50	\$337,581	\$0	\$337,581
4	Mill and Remove 2-inch existing AC	02076	21,771	SY	\$5.40	\$117,563	\$0	\$117,563
5	Remove Bridge Block	02076	18	EA	\$225.00	\$4,050	\$0	\$4,050
6	Remove Curb	02076	3,172	LF	\$13.50	\$42,822	\$0	\$42,822
7	Remove and Dispose of existing storm sewer manholes and inlets	02076	42	EA	\$450.00	\$18,900	\$0	\$18,900
8	Remove and Dispose existing storm sewer drain all sizes	02076	3,095	LF	\$45.00	\$139,275	\$0	\$139,275
9	Remove and Dispose of Existing Sanitary Sewer	02076	800	LF	\$108.00	\$86,400	\$0	\$86,400
10	Remove and Dispose of Existing Sanitary Sewer Manholes	02076	11	EA	\$360.00	\$3,960	\$0	\$3,960
11	Remove and Dispose of Existing Water Lines	02076	5,194	LF	\$67.50	\$350,595	\$0	\$350,595
STORM SEWER ITEMS								
12	24-inch diameter storm sewer by open cut	02720	2,256	LF	\$108.00	\$243,648	\$0	\$243,648
13	36-inch diameter storm sewer by open cut	02720	709	LF	\$135.00	\$95,715	\$0	\$95,715
14	42-inch diameter storm sewer by open cut	02720	1,372	LF	\$162.00	\$222,264	\$0	\$222,264
15	48-inch diameter storm sewer by open cut	02720	4,286	LF	\$198.00	\$848,628	\$0	\$848,628
16	4x8 RCB storm sewer by open cut	02720	743	LF	\$765.00	\$568,395	\$0	\$568,395
17	5x8 RCB storm sewer by open cut	02720	5,398	LF	\$922.50	\$4,979,655	\$0	\$4,979,655
18	4x10 RCB storm sewer by open cut	02720	158	LF	\$945.00	\$149,310	\$0	\$149,310
19	5x10 RCB storm sewer by open cut	02720	1,580	LF	\$958.50	\$1,514,430	\$0	\$1,514,430
20	6x10 RCB storm sewer by open cut	02720	242	LF	\$1,350.00	\$326,700	\$0	\$326,700
21	Precast RCB Transition (5'x8' to 4'x10')	02617	18	EA	\$9,000.00	\$162,000	\$0	\$162,000
22	Type C1 Inlet	02606	76	EA	\$3,600.00	\$273,600	\$0	\$273,600
23	Type C1 Inlet w/5' extension	02606	27	EA	\$4,500.00	\$121,500	\$0	\$121,500
24	Precast concrete manholes	02601	27	EA	\$2,376.00	\$64,152	\$0	\$64,152
25	Junction Box (various sizes)	02601	24	EA	\$9,000.00	\$216,000	\$0	\$216,000
26	Television Inspection smaller than 30" Sewer, All Depths	02733	2,256	LF	\$2.70	\$6,091	\$0	\$6,091
27	Television Inspection 30"- 36" Sewer, All Depths	02733	709	LF	\$3.60	\$2,552	\$0	\$2,552
28	Television Inspection 42"- 48" Sewer, All Depths	02733	4,286	LF	\$4.50	\$19,287	\$0	\$19,287
29	Television Inspection Box Culverts Sewer, All Depths and Sizes	02733	6,299	LF	\$2.70	\$17,007	\$0	\$17,007
PAVING ITEMS								
30	2-inch Type D HMA	02510	50,815	SY	\$13.50	\$686,003	\$0	\$686,003
31	1" HMA Base Course (Temporary Pavement)	02238	25,408	SY	\$7.20	\$182,938	\$0	\$182,938
32	8" crushed stone flex base	02231	38,874	SY	\$7.65	\$297,386	\$0	\$297,386
33	6" Stabilized Compacted Subgrade	02233	58,665	SY	\$13.50	\$791,978	\$0	\$791,978
34	10" Concrete Pavement	02521	654	SY	\$99.00	\$64,746	\$0	\$64,746
35	4" Flexible Base	02231	654	SY	\$9.00	\$5,886	\$0	\$5,886
36	HMA Driveway (Width Varies)	02531	538	SY	\$22.50	\$12,105	\$0	\$12,105
37	Concrete Driveway (Width Varies)	02531	158	SY	\$45.00	\$7,110	\$0	\$7,110
38	ADA Parallel Curb Ramps	02530	16	EA	\$1,350.00	\$21,600	\$0	\$21,600
39	ADA Parallel Shared Curb Ramps	02530	16	EA	\$1,012.50	\$16,200	\$0	\$16,200
40	Repair Existing Curb 7" to 12"	02532	4,032	LF	\$36.00	\$145,152	\$0	\$145,152
41	Short Concrete Retaining Wall (2' Maximum)	Plans	40	LF	\$67.50	\$2,700	\$0	\$2,700
42	Reflective pavement marking - 24" white solid	02582	601	LF	\$7.20	\$4,327	\$0	\$4,327
43	Reflective pavement marking - white stenciled	02582	24	EA	\$450.00	\$10,800	\$0	\$10,800
44	Reflective pavement marking - 4" double yellow solid	02582	33	LF	\$1.80	\$59	\$0	\$59
45	Reflective Curb Paint (Red)	02582	100	LF	\$1.80	\$180	\$0	\$180
46	Reflective pavement marking - white 4" stenciled	02582	2	EA	\$450.00	\$900	\$0	\$900
47	Traffic sign W1-8L 18" x 29"	02582	1	EA	\$1,800.00	\$1,800	\$0	\$1,800
48	Traffic sign W1-8R 18" x 29"	02582	1	EA	\$1,800.00	\$1,800	\$0	\$1,800
WATER ITEMS								
49	Replace 2" Water Lines	02664	142	LF	\$45.00	\$6,390	\$0	\$6,390
50	1" Water Service (near side)	02665	7	EA	\$117.00	\$819	\$0	\$819
51	1" Water Service (far side)	02665	4	EA	\$91.80	\$367	\$0	\$367
52	12" Water Lines	02664	5,087	LF	\$103.50	\$526,505	\$0	\$526,505
53	16" Water Lines	02664	70	LF	\$135.00	\$9,450	\$0	\$9,450
54	20" Water Lines	02664	136	LF	\$270.00	\$36,720	\$0	\$36,720
55	18" Steel Casing	02611	392	LF	\$360.00	\$141,120	\$0	\$141,120
56	Wet Connection 2" to 12"	02667	42	EA	\$450.00	\$18,900	\$0	\$18,900
57	Wet Connection 16"	02667	2	EA	\$900.00	\$1,800	\$0	\$1,800
58	Wet Connection 20"	02667	2	EA	\$900.00	\$1,800	\$0	\$1,800
59	12" x 6" Reducer	02664	10	EA	\$450.00	\$4,500	\$0	\$4,500
60	12" x 12" Cross	02664	2	EA	\$540.00	\$1,080	\$0	\$1,080
61	Cut & Plug 2" to 12"	02669	42	EA	\$450.00	\$18,900	\$0	\$18,900
62	Cut & Plug 16"	02669	2	EA	\$900.00	\$1,800	\$0	\$1,800
63	Cut & Plug 20"	02669	2	EA	\$900.00	\$1,800	\$0	\$1,800
64	Installation of owner supplied water meter	02627	2	EA	\$180.00	\$360	\$0	\$360
65	Installation of fire hydrants	02645	10	EA	\$2,700.00	\$27,000	\$0	\$27,000

66	Installation of fire hydrant leads	02645	300	LF	\$9.00	\$2,700	\$0	\$2,700
67	Removing and salvaging of fire hydrants	02645	5	EA	\$900.00	\$4,500	\$0	\$4,500
SANITARY SEWER ITEMS								
68	Sanitary sewer service and clean-out within 5 feet of main	02762	5	EA	\$90.00	\$450	\$0	\$450
69	Sanitary sewer service and clean-out more than 5 feet from main	02762	13	LF	\$180.00	\$2,340	\$0	\$2,340
70	12" Sanitary Sewer Lines	02730	2,021	LF	\$117.00	\$236,457	\$0	\$236,457
71	15" Sanitary Sewer Lines	02730	325	LF	\$135.00	\$43,875	\$0	\$43,875
72	18" Sanitary Sewer Lines	02730	70	LF	\$180.00	\$12,600	\$0	\$12,600
73	24" Sanitary Sewer Lines (C-900)	02730	216	LF	\$315.00	\$68,040	\$0	\$68,040
74	36" Sanitary Sewer Lines (C-900)	02730	238	LF	\$360.00	\$85,680	\$0	\$85,680
75	18" Steel Casing	02611	338	EA	\$270.00	\$91,260	\$0	\$91,260
76	Junctions All Sizes	02730	11	EA	\$720.00	\$7,920	\$0	\$7,920
77	Sanitary Sewer Manhole	02601	38	EA	\$3,600.00	\$136,800	\$0	\$136,800
78	Sanitary Sewer Conflict Manhole	02601	1	EA	\$4,500.00	\$4,500	\$0	\$4,500
79	Sanitary Sewer Siphon	02730	2	EA	\$135,180.00	\$270,360	\$0	\$270,360
80	Siphon Boxes	02730	16	EA	\$9,000.00	\$144,000	\$0	\$144,000
81	Temporary Bypass Pumping	02790	1	EA	\$90,000.00	\$90,000	\$0	\$90,000
EROSION CONTROL								
82	Tree Planting up to 4"	02901	77	EA	\$675.00	\$51,975	\$0	\$51,975
MISCELLANEOUS SITE WORK ITEMS								
83	Installation of Trolley Tracks	Plans	60	LF	\$225.00	\$13,500	\$0	\$13,500
84	Repair Existing Curb 7" to 12"	02532	600	LF	\$18.00	\$10,800	\$0	\$10,800
85	Water Lines 6" to 12"	02664	200	LF	\$63.00	\$12,600	\$0	\$12,600
86	Storm Sewer Junctions All Sizes	02601	4	EA	\$270.00	\$1,080	\$0	\$1,080
87	Cut & Plug 2" to 12"	02627	4	EA	\$315.00	\$1,260	\$0	\$1,260
88	Sanitary Sewer Lines 6" to 12"	02730	100	LF	\$81.00	\$8,100	\$0	\$8,100
89	Sanitary Sewer Junctions All Sizes	02730	10	EA	\$720.00	\$7,200	\$0	\$7,200
90	Optional Additional Storm Sewer	02720	500	LF	\$135.00	\$67,500	\$0	\$67,500
SITE WORK - Gravity System Improvments - Subtotal						\$15,391,158	\$0	\$15,391,158

SITE WORK - Pump Station Improvements								
EROSION CONTROL ITEMS								
1	Erosion Control	01566	1	EA	\$22,500.00	\$22,500	\$4,793	\$17,708
2	Landscaping Planting	02901	1	EA	\$5,400.00	\$5,400	\$0	\$5,400
3	Trees and Shrubs	02953	1	EA	\$21,600.00	\$21,600	\$0	\$21,600
DEMOLITION ITEMS								
4	Full Depth Pavement Removal	02076	3,776	SY	\$9.00	\$33,984	\$7,239	\$26,745
5	Utility Relocations	02227	1	EA	\$67,500.00	\$67,500	\$14,378	\$53,123
6	Removal of Existing Fencing	02050	515	LF	\$4.50	\$2,318	\$0	\$2,318
PAVING ITEMS								
7	Concrete Paving (8" thick)	02521	1,215	SY	\$85.50	\$103,883	\$22,127	\$81,756
8	Concrete Paving (10" thick)	02521	1,185	SY	\$99.00	\$117,315	\$0	\$117,315
9	Cement Stabilized Base Course	02233	2,400	SY	\$18.00	\$43,200	\$9,202	\$33,998
10	Lime Stabilized Subgrade Preparation	02241	2,400	SY	\$9.00	\$21,600	\$4,601	\$16,999
11	Concrete Retaining Wall	Plans	114	LF	\$67.50	\$7,695	\$0	\$7,695
12	Bollards	Plans	29	EA	\$900.00	\$26,100	\$5,559	\$20,541
STORM SEWER ITEMS								
13	6'x10' Reinforced Concrete Box	02720	50	LF	\$1,125.00	\$56,250	\$0	\$56,250
14	8'x10" Reinforced Concrete Box	02720	23	LF	\$1,350.00	\$31,050	\$0	\$31,050
15	Concrete Junction Boxes (15th Street Outfall)	02720	1	LS	\$135,000.00	\$135,000	\$0	\$135,000
16	Catch Basin - Type A	02720	3	EA	\$3,600.00	\$10,800	\$0	\$10,800
17	18-inch diameter storm sewer by open cut (RCP)	02720	31	LF	\$63.00	\$1,953	\$0	\$1,953
WATER ITEMS								
18	Water Line 2" PVC with Service Connection	02665	140	LF	\$27.00	\$3,780	\$805	\$2,975
SANITARY SEWER ITEMS								
19	Sanitary Sewer Cleanout	02762	1	EA	\$1,800.00	\$1,800	\$383	\$1,417
20	Sanitary Sewer Line 6" PVC	02762	100	LF	\$90.00	\$9,000	\$1,917	\$7,083
21	Sanitary Sewer Manhole	02601	1	EA	\$1,080.00	\$1,080	\$230	\$850
FENCING ITEMS								
22	6' H Galvanized Chain Link Fence with 1', 3 strand barbed wire	02831	475	LF	\$18.00	\$8,550	\$1,821	\$6,729
23	6' H x 12' W Galvanized Chain Link Fence Security Gates with 1', 3 strand barbed wire (double swing)	02831	3	EA	\$900.00	\$2,700	\$0	\$2,700
24	6' H x 22' W Galvanized Chain Link Fence Security Gates with 1', 3 strand barbed wire (double swing)	02831	2	EA	\$1,800.00	\$3,600	\$0	\$3,600
25	8' H Decorative Aluminum Security Fencing	Plans	205	LF	\$135.00	\$27,675	\$0	\$27,675
26	8' H x 24' W Decorative Aluminum Security Gate (double swing)	Plans	1	EA	\$10,800.00	\$10,800	\$0	\$10,800
27	Swing Gate Operator	Plans	1	EA	\$8,190.00	\$8,190	\$0	\$8,190
28	Aluminum Handrails	05530	102	LF	\$45.00	\$4,590	\$0	\$4,590
SITE WORK - Pump Station Improvements - Subtotal						\$789,912	\$73,054	\$716,858

SITE WORK - 14th and 15th Street Outfall Structures								
1	Remove or Plug Existing Storm Pipe	02076	1	EA	\$22,500.00	\$22,500	\$0	\$22,500
2	Remove Existing Bulkheads	02050	2	EA	\$45,000.00	\$90,000	\$0	\$90,000
3	Bollards	Plans	42	EA	\$900.00	\$37,800	\$0	\$37,800
SITE WORK - 14th and 15th Street Outfall Structures - Subtotal						\$150,300	\$0	\$150,300
DIVISION 02: SITE WORK - SUBTOTAL						\$16,331,370	\$73,054	\$16,258,316

DIVISION 03: CONCRETE								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
CONCRETE - Pump Station Wet Well								
1	2500 psi Lean Concrete Seal Slab (6" Thick for Sump Tank, 6" Thick for Outfall Basin)	033500	80	CY	\$270.00	\$21,600	\$0	\$21,600
2	4000 psi Concrete Foundation Slab (Wet Well Tank and Outfall Basin)	033500	319	CY	\$1,215.00	\$387,542	\$0	\$387,542
3	4000 psi Concrete Walls (Exterior, Internal Baffle, Baffle Supports, 1' Pump Wall and Outfall Basin Walls)	033500	583	CY	\$1,215.00	\$708,345	\$0	\$708,345
4	18" Sq. 4000 psi Concrete Columns	033500	19	CY	\$1,215.00	\$23,085	\$0	\$23,085
5	12" Sq. 4000 psi Concrete Columns	033500	4	CY	\$1,215.00	\$4,860	\$0	\$4,860
6	4000 psi Concrete Slabs and Beams (Wet Well Top Slab, Beams, Pump Roof Slab and Outfall Basin Roof Slab)	033500	202	CY	\$1,215.00	\$245,430	\$0	\$245,430
CONCRETE - Pump Station Wet Well - Subtotal						\$1,390,862	\$0	\$1,390,862
CONCRETE - Control Building, Fuel Tank Area, and Elevated Transformer Pad								
1	4000 psi Concrete Foundations and Slab on Grades (Control Building, Fuel Tank Area and Transformer Pad)	033500	404	CY	\$1,215.00	\$490,860	\$104,553	\$386,307
2	2500 psi Lean Concrete Seal Slab	033500	79	CY	\$270.00	\$21,330	\$4,543	\$16,787
3	4000 psi Concrete Slab EL 20.0 (Control Building, Fuel Tank Area and Transformer Pad)	033500	136	CY	\$1,215.00	\$165,240	\$35,196	\$130,044
4	8" Pre-Cast Prestressed Concrete Wall Panels (Control Building and Fuel Tank Area)	034500	11,863	SF	\$43.20	\$512,482	\$109,159	\$403,323
5	18" Sq. 4000 psi Concrete Columns (Control Building and Fuel Tank Area)	033500	67	CY	\$1,215.00	\$81,405	\$17,339	\$64,066
6	12" Sq. 4000 psi Concrete Columns (Control Building and Transformer Pad)	033500	7	CY	\$1,215.00	\$8,505	\$1,812	\$6,693
7	4000 psi Concrete Beams (Control Building, Fuel Tank Area and Transformer Pad)	033500	156	CY	\$1,215.00	\$189,540	\$40,372	\$149,168
8	14" Hollow Core Concrete Planks (Control Building EL. 34.0 and EL. 43.0)	034100	2,406	SF	\$45.00	\$108,270	\$23,062	\$85,208
9	8" thk. Removable Pre-Cast Concrete Panels (Generator Floor Opening EL 20.0)	034100	125	SF	\$90.00	\$11,250	\$0	\$11,250
CONCRETE - Control Building, Fuel Tank Area, and Elevated Transformer Pad - Subtotal						\$1,588,882	\$336,036	\$1,252,846
CONCRETE - 14th and 15th Street Outfall Structures								
1	4000 psi Concrete Bottom Slab	033500	67	CY	\$1,215.00	\$81,405	\$0	\$81,405
2	4000 psi Concrete Cap & Perimeter Wall	033500	83	CY	\$1,215.00	\$100,845	\$0	\$100,845
3	4000 psi Concrete Headwall and Beams	033500	35	CY	\$1,215.00	\$42,525	\$0	\$42,525
4	5000 psi Grout Fill	033500	7	CY	\$360.00	\$2,520	\$0	\$2,520
5	2500 psi Lean Concrete Seal Slab	033500	17	CY	\$270.00	\$4,590	\$0	\$4,590
CONCRETE - 14th and 15th Street Outfall Structures - Subtotal						\$231,885	\$0	\$231,885

DIVISION 03: CONCRETE - SUBTOTAL						\$3,211,629	\$336,036	\$2,875,593
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DIVISION 05: METALS								
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Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
METALS - Pump Station Wet Well								
1	Steel Framing (Pump Removal Framing and Outfall Basin Grating Supports)	051200	1	EA	\$180,000.00	\$180,000	\$0	\$180,000
2	Steel Stairs (Access to Outfall Basin Deck)	055100	1	EA	\$22,500.00	\$22,500	\$0	\$22,500
3	Ladders	055100	4	EA	\$4,500.00	\$18,000	\$0	\$18,000
4	Steel Guardrails	055300	201	LF	\$45.00	\$9,045	\$0	\$9,045
5	2" x 3/16" Galvanized Grating (Wet Well EL. -8.25' and Outfall Basin EL 8.0)	055000	1,310	SF	\$67.50	\$88,425	\$0	\$88,425
6	1 -1/4" x 3/16" Galvanized Grating (Grating above Flap Gates EL 20.0)	055000	120	SF	\$67.50	\$8,100	\$0	\$8,100
7	3" x 3/8" Heavy Duty Galvanized Grating (Wet Well Grating EL 7.0)	055000	256	SF	\$90.00	\$23,040	\$0	\$23,040
8	2" x 5/16" Galvanized Bar Screen	055000	471	SF	\$67.50	\$31,793	\$0	\$31,793
METALS - Pump Station Wet Well - Subtotal						\$380,903	\$0	\$380,903

METALS - Control Building, Fuel Tank Area, and Elevated Transformer Pad								
1	Steel Pre-Fabricated Roof Truss and Galvalume Roof	054400	1	EA	\$225,000.00	\$225,000	\$47,925	\$177,075
2	30 lb ASCE Crane Rail Connections and W18x69 Beam Supports	051200	1	EA	\$22,500.00	\$22,500	\$0	\$22,500
3	Control Building Stairs	055100	2	EA	\$67,500.00	\$135,000	\$28,755	\$106,245
4	Transformer Pad Stairs	055100	1	EA	\$67,500.00	\$67,500	\$0	\$67,500
5	Guardrails (Control Building and Fuel Tank Area)	055300	22	LF	\$45.00	\$990	\$0	\$990
6	Guardrails (Transformer Pad)	055300	92	LF	\$45.00	\$4,140	\$0	\$4,140
METALS - Control Building, Fuel Tank Area, and Elevated Transformer Pad - Subtotal						\$455,130	\$76,680	\$378,450

METALS - 14th and 15th Street Outfall Structures								
1	1-1/4" x 3/16" Galvanized Steel Grating	055000	604	SF	\$45.00	\$27,180	\$0	\$27,180
2	Steel Bracing (HSS12"x12"x.625", HSS12"x8"x0.625" and HSS12"x4"x0.625")	051200	1	EA	\$25,200.00	\$25,200	\$0	\$25,200
METALS - 14th and 15th Street Outfall Structures - Subtotal						\$52,380	\$0	\$52,380

DIVISION 05: METALS - SUBTOTAL						\$888,413	\$76,680	\$811,733
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DIVISION 06: WOOD, PLASTICS, AND COMPOSITES								
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Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
WOOD, PLASTICS, AND COMPOSITES - Control Building and Fuel Tank Area								
1	Exterior Carpentry	062013	1	EA	\$18,000.00	\$18,000	\$0	\$18,000
2	Interior Cabinetry and Counters	064100	1	EA	\$4,500.00	\$4,500	\$959	\$3,542
WOOD, PLASTICS, AND COMPOSITES - Control Building and Fuel Tank Area - Subtotal						\$22,500	\$959	\$21,542

DIVISION 06: WOOD, PLASTICS, AND COMPOSITES - SUBTOTAL						\$22,500	\$959	\$21,542
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DIVISION 07: THERMAL AND MOISTURE PROTECTION								
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Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
THERMAL AND MOISTURE PROTECTION - Control Building and Fuel Tank Area								
1	Building Insulation	072100	4,150	SF	\$2.70	\$11,205	\$2,387	\$8,818
2	Below Grade Vapor Retarder	072616	3,650	SF	\$0.90	\$3,285	\$700	\$2,585
3	Standing Seam Metal Roof Panels	074113	4,200	SF	\$45.00	\$189,000	\$40,257	\$148,743
4	Joint Sealers	079000	7,300	SF	\$0.90	\$6,570	\$1,399	\$5,171
THERMAL AND MOISTURE PROTECTION - Control Building and Fuel Tank Area - Subtotal						\$210,060	\$44,743	\$165,317

DIVISION 07: THERMAL AND MOISTURE PROTECTION - SUBTOTAL						\$210,060	\$44,743	\$165,317
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DIVISION 08: OPENINGS								
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Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
OPENINGS - Pump Station Wet Well								
1	5'-0" x 5'-0" Double Door Aluminum Access Cover (300 psf Loading)	083100	8	EA	\$13,500.00	\$108,000	\$0	\$108,000
2	3'-6" x 3'-6" Double Door Aluminum Access Cover (300 psf Loading)	083100	1	EA	\$10,800.00	\$10,800	\$0	\$10,800
3	2'-6" x 2'-6" Aluminum Access Door HS 20 Load Rating (Wet Well Access EL 7.0)	083100	2	EA	\$2,250.00	\$4,500	\$0	\$4,500
4	2'-6" x 2'-6" Aluminum Access Door (Outfall Basin Access EL 20.0)	083100	1	EA	\$900.00	\$900	\$0	\$900
OPENINGS - Pump Station Wet Well - Subtotal						\$124,200	\$0	\$124,200

OPENINGS - Pump Station Site								
1	5'-0" x 12'-0" Double Door Aluminum Access Cover (H-20 Loading)	083100	2	EA	\$10,800.00	\$21,600	\$0	\$21,600
2	2" x 3/16" Galvanized Grating (Wet Well EL. -8.25' Outfall Basin EL 8.0 and Grating above Flap Gates EL 20.0)	083100	178	SF	\$67.50	\$12,015	\$0	\$12,015
OPENINGS - Pump Station Site - Subtotal						\$33,615	\$0	\$33,615

OPENINGS - Control Building and Fuel Tank Area								
1	Exterior Fiberglass Reinforced Plastic Doors and Frames (200 mph)	082200	8	EA	\$2,700.00	\$21,600	\$4,601	\$16,999
2	Fiberglass Reinforced Plastic Double Doors and Frames (200 mph)	082200	1	EA	\$5,400.00	\$5,400	\$1,150	\$4,250
3	Interior Fiberglass Reinforced Plastic Doors and Frames	082200	3	EA	\$720.00	\$2,160	\$460	\$1,700
4	Aluminum Framed Storefront (200 mph)	084100	70	SF	\$157.50	\$11,025	\$0	\$11,025
5	Fire Rated Interior Windows	088813	70	SF	\$45.00	\$3,150	\$0	\$3,150
6	Aluminum Fixed Louvers (Generator Intake)	089118	2	EA	\$2,880.00	\$5,760	\$1,227	\$4,533
7	Aluminum Fixed Louvers (Generator Exhaust)	089118	2	EA	\$2,880.00	\$5,760	\$1,227	\$4,533
8	Aluminum Fixed Louvers (HVAC)	089118	3	EA	\$1,440.00	\$4,320	\$920	\$3,400
9	Aluminum Fixed Louvers (Generator Room Ventilation)	089118	2	EA	\$270.00	\$540	\$0	\$540
10	Attic Hatch and Door	083100	2	EA	\$900.00	\$1,800	\$0	\$1,800
11	Overhead Security Grilles	083330	2	EA	\$6,750.00	\$13,500	\$0	\$13,500
OPENINGS - Control Building and Fuel Tank Area - Subtotal						\$75,015	\$9,585	\$65,430

DIVISION 08: OPENINGS - SUBTOTAL						\$232,830	\$9,585	\$223,245
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DIVISION 09: FINISHES								
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Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
FINISHES - Control Building and Fuel Tank Area								
1	Gypsum Board Assemblies	092116	2,500	SF	\$7.20	\$18,000	\$0	\$18,000
2	Thin-Set Ceramic Tile	093113	350	SF	\$13.50	\$4,725	\$0	\$4,725
3	Acoustical Ceilings	095100	500	SF	\$9.00	\$4,500	\$0	\$4,500
4	Resilient Tile Flooring	096519	500	SF	\$15.75	\$7,875	\$0	\$7,875
5	Fluid Applied Flooring	096700	1,200	SF	\$14.40	\$17,280	\$0	\$17,280
6	Sound-Absorbing Wall Panels	098433	3,400	SF	\$7.20	\$24,480	\$0	\$24,480
7	Sealant (paint) - Walls and Ceilings	099000	3,600	SF	\$3.60	\$12,960	\$2,760	\$10,200
8	Sealant (paint) - Exterior	099000	13,000	SF	\$3.60	\$46,800	\$0	\$46,800
FINISHES - Control Building and Fuel Tank Area - Subtotal						\$136,620	\$2,760	\$133,860

DIVISION 09: FINISHES - SUBTOTAL						\$ 136,620	\$ 2,760	\$133,860
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DIVISION 10: SPECIALTIES								
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Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
SPECIALTIES - Control Building and Fuel Tank Area								
1	Interior Door Signage	101400	12	EA	\$90.00	\$1,080	\$230	\$850
2	Dimensional Letter Signage	101419	3	EA	\$2,250.00	\$6,750	\$0	\$6,750

3	Corner Guards	102613	9	EA	\$67.50	\$608	\$129	\$478
4	Commercial Toilet Accessories	102813	1	EA	\$900.00	\$900	\$192	\$708
5	Architectural Bird Screening	102900	100	EA	\$67.50	\$6,750	\$0	\$6,750
6	Fire Extinguishers	104413	6	EA	\$135.00	\$810	\$173	\$637
7	Recycled Plastic Storage Shelving	105619	40	SF	\$7.20	\$288	\$61	\$227
SPECIALTIES - Control Building and Fuel Tank Area - Subtotal						\$17,186	\$785	\$16,400
DIVISION 10: SPECIALTIES - SUBTOTAL						\$17,186	\$785	\$16,400

DIVISION 11: EQUIPMENT								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
EQUIPMENT - Pump Station Site								
1	Multi Rake Mechanical Bar Screen	111000	2	EA	\$315,000.00	\$630,000	\$0	\$630,000
EQUIPMENT - Pump Station Site - Subtotal						\$630,000	\$0	\$630,000
DIVISION 11: EQUIPMENT - SUBTOTAL						\$630,000	\$0	\$630,000

DIVISION 12: FURNISHINGS								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
FURNISHINGS - Control Building and Fuel Tank Area								
1	Horizontal Louver Blinds	122213	1	EA	\$540.00	\$540	\$0	\$540
FURNISHINGS - Control Building and Fuel Tank Area - Subtotal						\$540	\$0	\$540
DIVISION 12: FURNISHINGS - SUBTOTAL						\$540	\$0	\$540

DIVISION 22: PLUMBING								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
PLUMBING - Control Building and Fuel Tank Area								
1	Floor Drain with Trap Primer	221319	3	EA	\$360.00	\$1,080	\$230	\$850
2	Exposed Hose Bibb	221116	1	EA	\$401.40	\$401	\$0	\$401
3	Lavatory	224216.13	1	EA	\$612.00	\$612	\$130	\$482
4	Mop Sink	224216.16	1	EA	\$945.00	\$945	\$0	\$945
5	Sink	224216.16	1	EA	\$760.50	\$761	\$162	\$599
6	Shower	224223	1	EA	\$139.50	\$140	\$0	\$140
7	Water Closet	224213.13	1	EA	\$1,408.50	\$1,409	\$300	\$1,108
8	Electric Water Heater	223300	1	EA	\$5,391.00	\$5,391	\$1,148	\$4,243
9	Cleanouts	221319	3	EA	\$333.00	\$999	\$213	\$786
10	Waste Piping (2" Dia)	221316	100	LF	\$27.00	\$2,700	\$575	\$2,125
11	Waste Piping (3" Dia)	221316	100	LF	\$31.50	\$3,150	\$671	\$2,479
12	Waste Piping (4" Dia)	221316	150	LF	\$45.00	\$6,750	\$1,438	\$5,312
13	Vent Piping (2" Dia)	221316	100	LF	\$13.50	\$1,350	\$288	\$1,062
14	Cold Water Piping (0.5" Dia)	221116	50	LF	\$13.50	\$675	\$144	\$531
15	Cold Water Piping (0.75" Dia)	221116	200	LF	\$18.00	\$3,600	\$767	\$2,833
16	Cold Water Piping (1" Dia)	221116	100	LF	\$22.50	\$2,250	\$479	\$1,771
17	Cold Water Piping (2" Dia)	221116	150	LF	\$49.50	\$7,425	\$1,582	\$5,843
18	Hot Water or Tempered Piping (0.5" Dia)	221116	50	LF	\$13.50	\$675	\$144	\$531
19	Hot Water or Tempered Piping (0.75" Dia)	221116	100	LF	\$18.00	\$1,800	\$383	\$1,417
20	Piping Insulation	220719	700	LF	\$10.80	\$7,560	\$1,610	\$5,950
21	Thermal Mixing Valve	221119	1	EA	\$1,620.00	\$1,620	\$345	\$1,275
22	Pipe Hangers	220529	100	EA	\$9.00	\$900	\$192	\$708
PLUMBING - Control Building and Fuel Tank Area - Subtotal						\$52,192	\$10,800	\$41,392
PLUMBING - Pump Station Wet Well								
1	48" Storm Water Discharge Pipe and Appurtenances	221413	8	EA	\$10,800.00	\$86,400	\$0	\$86,400
2	24" Storm Water Discharge Pipe and Appurtenances	221413	1	EA	\$2,250.00	\$2,250	\$0	\$2,250
3	Sump Pump (SP-1)	221429	1	EA	\$5,445.00	\$5,445	\$0	\$5,445
4	Sump Pump Piping	Plans	100	LF	\$58.50	\$5,850	\$0	\$5,850
PLUMBING - Pump Station Wet Well - Subtotal						\$99,945	\$0	\$99,945
DIVISION 22: PLUMBING - SUBTOTAL						\$152,137	\$10,800	\$141,337

DIVISION 23: MECHANICAL								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
MECHANICAL - Control Building and Fuel Tank Area								
1	Ductwork	233113	40	LB	\$13.50	\$540	\$115	\$425
2	Ductwork Insulation	230713	60	SF	\$2.70	\$162	\$35	\$127
3	Air Duct Accessories	233300	1	EA	\$8,100.00	\$8,100	\$1,725	\$6,375
4	Test and Balance	230593	2	EA	\$2,250.00	\$4,500	\$959	\$3,542
5	Air Handling Unit (Control Room)	238126	1	EA	\$5,908.50	\$5,909	\$1,259	\$4,650
6	Air Handling Unit (Electrical Room)	238126	1	EA	\$10,170.00	\$10,170	\$0	\$10,170
7	Condensing Unit (Control Room)	238126	1	EA	\$2,353.50	\$2,354	\$501	\$1,852
8	Condensing Unit (Electrical Room)	233423	1	EA	\$5,895.00	\$5,895	\$0	\$5,895
9	Exhaust Fan (Generator Room)	233423	1	EA	\$2,700.00	\$2,700	\$0	\$2,700
10	Exhaust Fan (Restroom)	233423	1	EA	\$720.00	\$720	\$153	\$567
11	Electric Unit Heater (Generator Room)	238239	1	EA	\$855.00	\$855	\$0	\$855
12	Air Devices	233713.13	6	EA	\$360.00	\$2,160	\$460	\$1,700
13	Generator Ductwork	233713.13	20	LB	\$18.00	\$360	\$77	\$283
14	Exhaust Piping	231113	50	LF	\$135.00	\$6,750	\$1,438	\$5,312
15	7500 Gallon Above Ground Fuel-Oil Storage Tank, Steel Double Wall, Concrete Vaulted	231323	1	EA	\$112,500.00	\$112,500	\$23,963	\$88,538
16	660 Gallon Sub-base Day Tank, Steel Double Wall	231323	2	EA	\$18,450.00	\$36,900	\$7,860	\$29,040
17	Fuel Oil Transfer System including Fuel Oil Piping, Transfer Pumps, and Remote Filling Station	231113 & 231213	1	EA	\$27,000.00	\$27,000	\$5,751	\$21,249
18	Storage Tank Monitoring System with High Level Alarms	231323	1	EA	\$8,100.00	\$8,100	\$1,725	\$6,375
MECHANICAL - Control Building and Fuel Tank Area - Subtotal						\$235,674	\$46,020	\$189,654
DIVISION 23: MECHANICAL - SUBTOTAL						\$235,674	\$46,020	\$189,654

DIVISION 26: ELECTRICAL								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
ELECTRICAL - Control Building and Fuel Tank Area								
1	3000 KVA Transformer Service Equipment - Utility Feeder	260519	1	EA	\$31,500.00	\$31,500	\$6,710	\$24,791
2	1000 KW Generator and Appurtenances (includes load bank)	263213	2	EA	\$382,500.00	\$765,000	\$19,125	\$745,875
3	Generator Paralleling Switchgear, Cables, Cable Tray and Supports	262313	1	EA	\$202,735.80	\$202,736	\$0	\$202,736
4	Secondary Feeders, includes cable bus for MCC and generators	260519	1	EA	\$611,003.70	\$611,004	\$0	\$611,004
5	Main 3200 amp , Motor Control Center Lineup, Reduced Voltage Starters, 3200 Amp Bus, With Utility, Generator Mains and Auto Transfer	262419	1	EA	\$714,032.10	\$714,032	\$0	\$714,032
6	Dry Type Transformer, 75 Kva, 480v - 208/120 V, for UPS	262200	1	EA	\$4,855.50	\$4,856	\$0	\$4,856
7	UPS, Maintenance Bypass Switch, Battery Bank, Distribution Panel	265353	1	EA	\$63,904.50	\$63,905	\$0	\$63,905
8	112.5 KVA Dry Type Transformer	262200	1	EA	\$5,704.20	\$5,704	\$0	\$5,704
9	208/120 Volt, 36 Pole Space Panelboard For Station Power And Lighting	262416	2	EA	\$2,068.20	\$4,136	\$881	\$3,255
10	Interior and Exterior Lighting	265119	1	EA	\$70,436.70	\$70,437	\$15,003	\$55,434
11	AC Unit Feeder	260519	1	EA	\$5,783.40	\$5,783	\$1,232	\$4,552
12	Miscellaneous Electrical	-	1	EA	\$67,500.00	\$67,500	\$0	\$67,500
ELECTRICAL - Control Building and Fuel Tank Area - Subtotal						\$2,546,592	\$42,950	\$2,503,642

ELECTRICAL - Pump Station Site								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
1	Pump Motor Conduits And Supports	260533	1	EA	\$48,976.20	\$48,976	\$0	\$48,976
2	Duct Bank from Building to Pumps	260543	1	EA	\$131,386.50	\$131,387	\$0	\$131,387
3	Traffic Rated Pull Boxes	260543	4	EA	\$8,302.50	\$33,210	\$0	\$33,210
4	Pump Motor Feeder Cables	260519	1	EA	\$93,114.90	\$93,115	\$0	\$93,115
5	Pump Motor Cable Tray, Disconnect Switches	262816 & 260536	1	EA	\$23,634.90	\$23,635	\$0	\$23,635
6	Exterior Site Lighting	265600	1	EA	\$29,751.30	\$29,751	\$0	\$29,751
7	Grounding	260526	1	EA	\$14,028.75	\$14,029	\$2,988	\$11,041
ELECTRICAL - Pump Station Site - Subtotal						\$374,103	\$2,988	\$371,114
DIVISION 26: ELECTRICAL - SUBTOTAL						\$2,920,695	\$45,939	\$2,874,756

DIVISION 27: COMMUNICATIONS								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
COMMUNICATIONS - Control Building and Fuel Tank Area								
1	Telecomm Board and Fiber Optic Devices - SCADA to COG Central	271000	1	EA	\$4,500.00	\$4,500	\$959	\$3,542
2	19" Rack - Network Switches (2); Access Ctrl, Surveillance, VOIP connections (EI-003)	271000	1	EA	\$9,000.00	\$9,000	\$1,917	\$7,083
3	19" Rack - SCADA Switches, multiple connections (EI-004)	271000	1	EA	\$6,750.00	\$6,750	\$0	\$6,750
4	SCADA Control System, Incl Configurator & Control Panel (Schneider Eurotherm)	276000	1	EA	\$459,000.00	\$459,000	\$0	\$459,000
5	Operator Workstation - PC & Monitors (2)	276000	1	EA	\$1,800.00	\$1,800	\$0	\$1,800
6	SCADA Workstation - PC & Monitors (2)	276000	1	EA	\$1,800.00	\$1,800	\$0	\$1,800
7	Control System Power Supplies - Wiring from UPS Only	276005	1	EA	\$900.00	\$900	\$0	\$900
8	Control System Instrumentation Connections - Homerun Wiring to Field Junction Box	276005	1	EA	\$4,500.00	\$4,500	\$0	\$4,500
9	Control System Ethernet Connection to Trash Rake Sub-System	276000	1	EA	\$900.00	\$900	\$0	\$900
10	Control System Ethernet Connection to Fuel Tank Monitoring Control Panel Sub-System	276000	1	EA	\$450.00	\$450	\$0	\$450
11	Control System Ethernet Connection to Genset Control Panels 1 & 2 Sub-Systems	276000	2	EA	\$900.00	\$1,800	\$0	\$1,800
12	Control System Ethernet Connection to Genset Control Paralleling Switchgear Panels Sub-System	276000	1	EA	\$450.00	\$450	\$0	\$450
13	Control System Ethernet Connection to UPS Sub-System	276000	1	EA	\$450.00	\$450	\$0	\$450
COMMUNICATIONS - Control Building and Fuel Tank Area - Subtotal						\$492,300	\$2,876	\$489,425
COMMUNICATIONS - Pump Station Site								
1	Field Instrumentation (LTs)	276010	5	EA	\$6,750.00	\$33,750	\$0	\$33,750
2	Field Instrumentation Junction Box	276010	1	EA	\$4,500.00	\$4,500	\$0	\$4,500
3	Field Instrumentation Wiring to Instruments (LTs)	276010	5	EA	\$1,800.00	\$9,000	\$0	\$9,000
4	Field Instrumentation Wiring to Instruments MOVs, HSs, Motor Starters	276010	3	EA	\$3,150.00	\$9,450	\$0	\$9,450
COMMUNICATIONS - Pump Station Site - Subtotal						\$56,700	\$0	\$56,700
COMMUNICATIONS - Pump Station Site to 14th & Broadway								
1	72 Strand Fiber Optic Cable in Concrete Encased Duct Bank (Schedule 80)	276010 and Plans	3,480	LF	\$14.40	\$50,112	\$10,674	\$39,438
2	Precast Fiber Optic Pull Box	276010 and Plans	12	EA	\$5,400.00	\$64,800	\$13,802	\$50,998
COMMUNICATIONS - Pump Station Site to 14th & Broadway - Subtotal						\$114,912	\$24,476	\$90,436
DIVISION 27: COMMUNICATIONS - SUBTOTAL						\$663,912	\$27,352	\$636,560

DIVISION 28: SAFETY AND SECURITY								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
SAFETY AND SECURITY - Control Building and Fuel Tank Area								
1	Communications and Security System	281300 & 282300	1	EA	\$27,000.00	\$27,000	\$5,751	\$21,249
2	Fire Alarm System	283111	1	EA	\$13,500.00	\$13,500	\$2,876	\$10,625
SAFETY AND SECURITY - Control Building and Fuel Tank Area - Subtotal						\$40,500	\$8,627	\$31,874
SAFETY AND SECURITY - Pump Station Site								
1	Communications and Security System	281300 & 282300	1	EA	\$45,000.00	\$45,000	\$9,585	\$35,415
SAFETY AND SECURITY - Pump Station Site - Subtotal						\$45,000	\$9,585	\$35,415
DIVISION 28: SAFETY AND SECURITY - SUBTOTAL						\$85,500	\$18,212	\$67,289

DIVISION 31: EARTHWORK								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
EARTHWORK - Pump Station Wet Well								
1	Structural Excavation	312316.1612	5,858	CY	\$18.00	\$105,444	\$0	\$105,444
2	Structural Backfill	312316.1612	2,319	CY	\$9.00	\$20,871	\$0	\$20,871
3	16" Square Precast-Prestressed Concrete Piles	316213.20	6,266	LF	\$90.00	\$563,940	\$0	\$563,940
4	Static Load Test for 16" Square Precast-Prestressed Concrete Piles	316213.20	1	EA	\$144,000.00	\$144,000	\$0	\$144,000
EARTHWORK - Pump Station Wet Well - Subtotal						\$834,255	\$0	\$834,255
EARTHWORK - Control Building, Fuel Tank Area, and Elevated Transformer Pad								
1	16" Square Precast-Prestressed Concrete Piles	316213.20	6,358	LF	\$90.00	\$572,220	\$121,883	\$450,337
2	Static Load Test for 16" Square Precast-Prestressed Concrete Piles	316213.20	1	EA	\$126,000.00	\$126,000	\$26,838	\$99,162
EARTHWORK - Control Building, Fuel Tank Area, and Elevated Transformer Pad - Subtotal						\$698,220	\$148,721	\$549,499
EARTHWORK - 14th and 15th Street Outfall Structures								
1	Structural Excavation	312316.1612	1,383	CY	\$18.00	\$24,894	\$0	\$24,894
2	Structural Backfill	312316.1612	802	CY	\$9.00	\$7,218	\$0	\$7,218
3	PZ-27 Sheet Pile (Includes Wing Walls and Cutoff Wall)	311416.0012	4,486	SF	\$54.00	\$242,244	\$0	\$242,244
4	PS-27.5 Sheet Pile	311416.0012	302	SF	\$54.00	\$16,308	\$0	\$16,308
5	12" Dia. 70' Treated Timber Piles	316219.0012	568	LF	\$31.50	\$17,892	\$0	\$17,892
6	30" x 1-1/2" Steel Pipe Pile	316214.00	240	LF	\$90.00	\$21,600	\$0	\$21,600
EARTHWORK - 14th and 15th Street Outfall Structures - Subtotal						\$330,156	\$0	\$330,156
DIVISION 31: EARTHWORK - SUBTOTAL						\$1,862,631	\$148,721	\$1,713,910

DIVISION 33: UTILITIES								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
UTILITIES - Pump Station Wet Well								
1	48" Diameter Flap Gates	334000	8	EA	\$16,650.00	\$133,200	\$0	\$133,200
2	24" Diameter Flap Gates	334000	1	EA	\$6,480.00	\$6,480	\$0	\$6,480
UTILITIES - Pump Station Wet Well - Subtotal						\$139,680	\$0	\$139,680
UTILITIES - 14th and 15th Street Outfall Structures								
1	4'H x 10W Flap Gates (Waterman Series F-40 or Approved Equal)	334000	2	EA	\$45,000.00	\$90,000	\$0	\$90,000
2	3'H x 10W Flap Gates (Waterman Series F-40 or Approved Equal)	334000	1	EA	\$22,500.00	\$22,500	\$0	\$22,500
UTILITIES - 14th and 15th Street Outfall Structures - Subtotal						\$112,500	\$0	\$112,500
DIVISION 33: UTILITIES - SUBTOTAL						\$252,180	\$0	\$252,180

DIVISION 35: WATERWAY AND MARINE CONTRUCTION								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
WATERWAY AND MARINE CONTRUCTION - Pump Station Site								
1	Aluminum Stop Logs and Framing (for 6' H x 10' W opening)	352014	2	EA	\$31,500.00	\$63,000	\$0	\$63,000
2	Aluminum Stop Log Framing Only (for 8' H x 10' W opening)	352014	1	EA	\$22,500.00	\$22,500	\$0	\$22,500
3	Sluice Gate Structure, Frame, and Assembly with Actuator (4' H x 10' W)	352016	2	EA	\$70,200.00	\$140,400	\$0	\$140,400
4	48" Diameter Vertical Lift Pump/Motor Assemblies (Flygt PL7101, 170 HP, with Flygt FSI)	354502	8	EA	\$218,700.00	\$1,749,600	\$0	\$1,749,600
5	24" Diameter Vertical Lift Pump/Motor Assemblies (Flygt PL7040, 80 HP)	354502	1	EA	\$81,000.00	\$81,000	\$0	\$81,000
WATERWAY AND MARINE CONTRUCTION - Pump Station Site - Subtotal						\$2,056,500	\$0	\$2,056,500

WATERWAY AND MARINE CONTRUCTION - 14th and 15th Street Outfall Structures								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
1	Aluminum Stop Log Framing Only (for 4' H x 10' W opening)	352014	2	EA	\$18,000.00	\$36,000	\$0	\$36,000
2	Aluminum Stop Log Framing Only (for 3' H x 10' W opening)	352014	1	EA	\$16,200.00	\$16,200	\$0	\$16,200
WATERWAY AND MARINE CONTRUCTION - 14th and 15th Street Outfall Structures - Subtotal						\$52,200	\$0	\$52,200

DIVISION 35: WATERWAY AND MARINE CONTRUCTION - SUBTOTAL						\$2,108,700	\$0	\$2,108,700
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DIVISION 41: MATERIAL PROCESSING AND HANDLING EQUIPMENT								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
MATERIAL PROCESSING AND HANDLING EQUIPMENT - Pump Station Wet Well								
1	5-Ton Monorail Hoist System	412223.19	1	EA	\$18,000.00	\$18,000	\$0	\$18,000
MATERIAL PROCESSING AND HANDLING EQUIPMENT - Pump Station Wet Well - Subtotal						\$18,000	\$0	\$18,000

MATERIAL PROCESSING AND HANDLING EQUIPMENT - Control Building								
Item No.	Description	Specification Section	Quantity	Unit	Unit Price	Total Project Cost	Safe Room Work	Drainage Improvements & Pump Station Work
1	10-Ton Bridge Crane (Includes 1 Top Running Electric, Single Girder and Dual Drive Bridge Crane 10 ton Capacity)	412213.13	1	EA	\$90,000.00	\$90,000	\$0	\$90,000
MATERIAL PROCESSING AND HANDLING EQUIPMENT - Control Building - Subtotal						\$90,000	\$0	\$90,000

DIVISION 41: MATERIAL PROCESSING AND HANDLING EQUIPMENT - SUBTOTAL						\$108,000	\$0	\$108,000
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