

MONTGOMERY ALABAMA ICTF

PROJECT NO. 2022-0854

PREPARED: JANUARY 19, 2024



PORT OF MOBILE
ALABAMA PORT AUTHORITY



						ENGINEER'S OPINION	
Item No.	Description	Quantity	Unit	Unit Cost	Subtotal	Total	
CIVIL & TRACK CONSTRUCTION COSTS:							
Demolition							
1	Waterline Removed & Disposed Of	800	L.F.	\$20.00	\$16,000		
2	Sanitary Removed & Disposed Of	135	L.F.	\$25.00	\$3,375		
3	Sanitary Manhole Removed & Disposed Of	1	Each	\$1,800.00	\$1,800		
4	Building Removed & Disposed Of	4,700	S.F.	\$5.50	\$25,850		
5	Chain Link Fence Removed & Disposed Of	10,250	L.F.	\$7.50	\$76,875		
6							
Demolition Subtotal:							\$123,900
Site Preparation							
7	Clearing & Grubbing (Includes Tree Removal)	100	Acre	\$3,500.00	\$350,000		
8	Topsoil Striping (3") and Placement in Greenscape/Mound/Stockpile Areas	36,000	C.Y.	\$8.50	\$306,000		
9	Excavation of Material Including Embankment Construction (Compacted Effort)	205,000	C.Y.	\$10.00	\$2,050,000		
10	Excavation of Material and Placed In Stockpile	70,000	C.Y.	\$8.50	\$595,000		
11	Application of 30" Lime Stabilization	191,795	S.Y.	\$7.50	\$1,438,463		
12	Lime (based upon 5% in-situ)	12,946	TN	\$250.00	\$3,236,541		
13							
Site Preparation Subtotal:							\$7,976,003
Erosion & Sedimentation Control							
14	Seeding and Mulching	275,000	S.Y.	\$.55	\$151,250		
15	Erosion Control Blanket	150,000	S.Y.	\$2.50	\$375,000		
16	Rock-Lined Ditches - 12" Aggregate Depth with Fabric Underlayment	40,000	S.Y.	\$50.00	\$2,000,000		
17	Erosion Control Measures	1	Lump Sum	\$800,000.00	\$800,000		
18							
Erosion & Sedimentation Control Subtotal:							\$3,326,250
Drainage Improvements							
19	Oil Water Separator	1	Each	\$55,000.00	\$55,000		
20	Storm Sewer Structure	70	Each	\$5,000.00	\$350,000		
21	Headwall	13	Each	\$3,000.00	\$39,000		
22	Storm Sewer Pipe	8,600	L.F.	\$165.00	\$1,419,000		
23	Underdrain	3,600	L.F.	\$60.00	\$216,000		
24	Trench Drain	110	L.F.	\$350.00	\$38,500		
25							
Drainage Improvements Subtotal:							\$2,117,500
Paving & Traffic Control							
26	Light Duty Pavement - 2" Asphalt on 6" Aggregate	4,095	S.Y.				
27	2" Superpave Bituminous Concrete Wearing Surface Layer, 1/2 Inch Maximum Aggregate	456	Tons	\$150.00	\$68,400		
28	6" Crushed Aggregate Base Course, Type B	683	C.Y.	\$120.00	\$81,960		
29	Roadbed Processing	4,095	S.Y.	\$2.50	\$10,238		
30	Grunt Lane Pavement - 3" Asphalt on 6" Aggregate	3,200	S.Y.				
31	3" Superpave Bituminous Concrete Wearing Surface Layer, 1/2 Inch Maximum Aggregate	534	Tons	\$150.00	\$80,100		
32	6" Crushed Aggregate Base Course, Type B	534	C.Y.	\$120.00	\$64,080		
33	Standard Duty Pavement - 7.75" Asphalt on 8" Aggregate	19,315	S.Y.				
34	2" Superpave Bituminous Concrete Wearing Surface Layer, 1/2 Inch Maximum Aggregate	2,151	Tons	\$150.00	\$322,650		
35	2.75" Superpave Bituminous Concrete Upper Binder Layer, 1 Inch Maximum Aggregate	2,949	Tons	\$125.00	\$368,625		
36	3" Superpave Bituminous Concrete Lower Binder Layer, 1 Inch Maximum Aggregate	3,220	Tons	\$120.00	\$386,400		
37	8" Crushed Aggregate Base Course, Type B	4,288	C.Y.	\$120.00	\$514,560		
38	Roadbed Processing	19,315	S.Y.	\$2.50	\$48,288		
39	Heavy Duty Pavement - 11.75" Asphalt on 8" Aggregate	24,120	S.Y.				
40	2" Superpave Bituminous Concrete Wearing Surface Layer, 1/2 Inch Maximum Aggregate	2,670	Tons	\$150.00	\$400,500		
41	2.25" Superpave Bituminous Concrete Upper Binder Layer, 1 Inch Maximum Aggregate	3,015	Tons	\$125.00	\$376,875		
42	2.5" Superpave Bituminous Concrete Lower Binder Layer, 1 Inch Maximum Aggregate	3,350	Tons	\$125.00	\$418,750		
43	2.5" Superpave Bituminous Concrete Lower Binder Layer, 1 Inch Maximum Aggregate	3,350	Tons	\$125.00	\$418,750		
44	2.5" Superpave Bituminous Concrete Lower Binder Layer, 1 Inch Maximum Aggregate	3,350	Tons	\$120.00	\$402,000		
45	8" Crushed Aggregate Base Course, Type B	5,355	C.Y.	\$120.00	\$642,600		
46	Roadbed Processing	24,120	S.Y.	\$2.50	\$60,300		
47	Medium Duty RCC Pavement - 12" RCC on 6" Aggregate	5,450	S.Y.				
48	12" Roller Compacted Concrete	5,450	S.Y.	\$115.00	\$626,750		
49	6" Crushed Aggregate Base Course, Type B	909	C.Y.	\$120.00	\$109,080		
50	Roadbed Processing	5,450	S.Y.	\$2.50	\$13,625		
51	Medium Duty RCC Pavement - 12" RCC on 12" Aggregate	8,955	S.Y.				
52	12" Roller Compacted Concrete	8,955	S.Y.	\$115.00	\$1,029,825		
53	6" Crushed Aggregate Base Course, Type B	1,493	C.Y.	\$120.00	\$179,160		
54	Roadbed Processing	8,955	S.Y.	\$2.50	\$22,388		
55	Heavy Duty RCC Pavement - 18" RCC on 6" Aggregate	16,800	S.Y.				
56	18" Roller Compacted Concrete	16,800	S.Y.	\$125.00	\$2,100,000		
57	6" Crushed Aggregate Base Course, Type B	2,800	C.Y.	\$120.00	\$336,000		
58	Roadbed Processing	16,800	S.Y.	\$2.50	\$42,000		
59	Standard Duty PCC Pavement - 9" PCC on 6" Aggregate	4,450	S.Y.				
60	9" Portland Cement Concrete	4,450	S.Y.	\$150.00	\$667,500		
61	6.75" Crushed Aggregate Base Course, Type B	835	C.Y.	\$120.00	\$100,200		
62	Roadbed Processing	4,450	S.Y.	\$2.50	\$11,125		
63	Medium Duty PCC Pavement - 12" PCC on 6" Aggregate	6,800	S.Y.				
64	12" Portland Cement Concrete	6,800	S.Y.	\$175.00	\$1,190,000		
65	12" Crushed Aggregate Base Course, Type B	2,267	C.Y.	\$120.00	\$272,040		
66	Roadbed Processing	6,800	S.Y.	\$2.50	\$17,000		
67	Heavy Duty PCC Pavement - 18" PCC on 6" Aggregate	5,500	S.Y.				
68	18" Portland Cement Concrete	5,500	S.Y.	\$215.00	\$1,182,500		
69	6" Crushed Aggregate Base Course, Type B	917	C.Y.	\$120.00	\$110,040		
70	Roadbed Processing	5,500	S.Y.	\$2.50	\$13,750		

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71	Fuel Area Pavement - 10" RPCC on 6" Aggregate	210	S.Y.			
72	10" Reinforced Portland Cement Concrete	210	S.Y.	\$225.00	\$47,250	
73	6" Crushed Aggregate Base Course, Type B	35	C.Y.	\$120.00	\$4,200	
74	Roadbed Processing	210	S.Y.	\$2.50	\$525	
75	Maintenance Pavement - 16" RPCC on 6" Aggregate	1,405	S.Y.			
76	16" Reinforced Portland Cement Concrete	1,405	S.Y.	\$250.00	\$351,250	
77	6" Crushed Aggregate Base Course, Type B	235	C.Y.	\$120.00	\$28,200	
78	Roadbed Processing	1,405	S.Y.	\$2.50	\$3,513	
79	Concrete Craneway Pavement - 18" RPCC on 6" Aggregate	6,400	S.Y.			
80	18" Reinforced Portland Cement Concrete	6,400	S.Y.	\$260.00	\$1,664,000	
81	6" Crushed Aggregate Base Course, Type B	1,067	C.Y.	\$120.00	\$128,040	
82	Roadbed Processing	6,400	S.Y.	\$2.50	\$16,000	
83	Gravel Stacking	42,710	S.Y.			
84	18" Crushed Aggregate Base Course, Type B	21,355	C.Y.	\$120.00	\$2,562,600	
85	Roadbed Processing	6,400	S.Y.	\$2.50	\$16,000	
86	Gravel Berm/Drive - 6" Aggregate	15,850	S.Y.			
87	6" Crushed Aggregate Base Course, Type B	2,642	C.Y.	\$120.00	\$317,040	
88	Sidewalk - 4" PCC on 4" Aggregate	35	S.Y.			
89	4" Portland Cement Concrete	35	S.Y.	\$75.00	\$2,625	
90	4" Crushed Aggregate Base Course, Type B	4	C.Y.	\$120.00	\$480	
91	Overlay - 1.5" Asphalt	4,010	S.Y.			
92	1.5" Superpave Bituminous Concrete Wearing Surface Layer, 1/2 Inch Maximum Aggr	335	Tons	\$150.00	\$50,250	
93	Concrete Curb	1,140	L.F.	\$35.00	\$39,900	
94	Pavement Striping	1	L.S.	\$75,000.00	\$75,000	
95	Parking Blocks	100	Each	\$175.00	\$17,500	
96	Signage (Entrance Monument Sign)	1	Allowance	\$35,000.00	\$35,000	
97	Signage (Internal Directional)	1	Allowance	\$80,000.00	\$80,000	
98						
Paving & Traffic Control Subtotal:					\$18,127,430	
Gate, Guardrail, Fence & Traffic Barriers						
99	Site Pipe Bollards	80	Each	\$2,000.00	\$160,000	
100	Portable Concrete Barrier	350	Each	\$750.00	\$262,500	
101	Chain Link Fence - Perimeter	12,170	L.F.	\$40.00	\$486,800	
102	Terminal Entry Gate	3	Each	\$4,500.00	\$13,500	
103	Truck Portal Foundation	4	Each	\$8,000.00	\$32,000	
104	Rail Portal Foundation	4	Each	\$8,000.00	\$32,000	
105	Rear Camera Foundation	2	Each	\$6,000.00	\$12,000	
106	Kiosk Foundation	6	Each	\$1,750.00	\$10,500	
107	Gate Arm Foundation	2	Each	\$1,750.00	\$3,500	
108						
Gate, Guardrail, Fence & Traffic Barriers Subtotal:					\$1,012,800	
Electric & Communication						
109	Electric Miscellaneous	1	Lump Sum	\$ 475,000.00	\$475,000	
110	Electrical Distribution Equipment	1	Lump Sum	\$ 700,000.00	\$700,000	
111	Duct Banks	1	Lump Sum	\$ 2,800,000.00	\$2,800,000	
112	Electrical Feeders	1	Lump Sum	\$ 1,650,000.00	\$1,650,000	
113	Electrical boxes, Devices	1	Lump Sum	\$ 1,275,000.00	\$1,275,000	
114	Lighting Systems	1	Lump Sum	\$ 3,900,000.00	\$3,900,000	
115	Grounding Systems	1	Lump Sum	\$ 65,000.00	\$65,000	
116	Technology Equipment Infrastructure	1	Lump Sum	\$ 375,000.00	\$375,000	
117						
Electric & Communication Subtotal:					\$11,240,000	
Water Improvements						
118	8" Water Main including Appurtenances	4,600	L.F.	\$70.00	\$322,000	
119	6" Water Main (includes hydrant leads & Appurtenances)	405	L.F.	\$60.00	\$24,300	
120	2" Water Service including Appurtenances	2,700	L.F.	\$40.00	\$108,000	
121	8" Tapping Sleeve and Valve	1	Each	\$12,500.00	\$12,500	
122	Water Meter and Backflow Preventor	1	Each	\$45,000.00	\$45,000	
123	Fire Hydrant	12	Each	\$9,000.00	\$108,000	
124	Yard Hydrant	1	Each	\$2,000.00	\$2,000	
125	8" Water Main Valves	5	Each	\$4,300.00	\$21,500	
126	6" Water Main Valves (Includes Hydrant Valves)	12	Each	\$3,200.00	\$38,400	
127	2" Water Main Valves (Includes Hydrant Valves)	3	Each	\$1,900.00	\$5,700	
128	8" Plug and Thrust Block	2	Each	\$750.00	\$1,500	
129						
Water Improvements Total:					\$688,900	
Sanitary Improvements						
130	Reconstruction Existing Manhole to Grade	6	Each	\$3,000.00	\$18,000	
131	Lift Station	1	Each	\$135,000.00	\$135,000	
132	2" Forcemain	1,900	L.F.	\$40.00	\$76,000	
133	6" Sanitary Service	160	L.F.	\$50.00	\$8,000	
134	Cleanout	3	Each	\$1,000.00	\$3,000	
135						
Sanitary Improvements Total:					\$240,000	
Terminal Trackwork						
136	Furnish Materials and Construct #136 CWR Track, Complete Rail, Ties, Plates, Spikes, Anchors, OTM, Transition Rails, Ballast, and Walkway Ballast	12,920	T.F.	\$180.00	\$2,325,600	
137	Furnish and Construct No. 10 - #136 CWR Turnout, Complete including Ballast	5	Each	\$125,000.00	\$625,000	
138	Furnish and Install DTMF Switch Machine	6	Each	\$85,000.00	\$510,000	
139	Provide & Install Derail and Blue Flag Protection	6	Each	\$5,000.00	\$30,000	
140	Vertical Lift Derail	1	Each	\$7,500.00	\$7,500	
141	Track Subballast (6") - Material Provided & Installed (2 Tons/C.Y.)	16,800	Tons	\$50.00	\$840,000	
142	Unload And Distribute/Re-Distribute Track Materials	1	Lump Sum	\$150,000.00	\$150,000	
143	Furnish & Install Concrete Crossing	690	T.F.	\$150.00	\$103,500	
144						
Terminal Trackwork Subtotal:					\$4,591,600	

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Item No.	Description	Quantity	Unit	Unit Cost	Subtotal	Total
Compressed Air System						
144	Compressed Air - 3" Mains	700	L.F.	\$75.00	\$52,500	
145	Compressed Air - 2" Mains	45	L.F.	\$60.00	\$2,700	
146	Compressed Air Outlet - 2" (Complete)	6	Each	\$3,500.00	\$21,000	
147	Compressed Air - 3" Valve	2	Each	\$8,500.00	\$17,000	
148	Compressed Air - 3" Plug and Valve	2	Each	\$9,500.00	\$19,000	
149	Compressed Air - 3"x2"x3" Tee	6	Each	\$200.00	\$1,200	
150	Compressed Air - Remote Compressed Air Building(Single 30 HP Comp) with Slab	2	Each	\$100,000.00	\$200,000	
151						
Compressed Air System Subtotal:					\$313,400	
Lead Track Construction						
145	Furnish Materials and Construct #136 CWR Track, Complete Rail, Ties, Plates, Spikes, Anchors, OTM, Transition Rails, Ballast, and Walkway Ballast	11,620	Each	\$180.00	\$2,091,600	
146	Furnish and Construct No. 15 - #136 CWR Turnout, Complete including Ballast	2	Each	\$150,000.00	\$300,000	
147	Furnish and Construct No. 15 - #136 CWR Crossover, Complete including Ballast	1	Each	\$275,000.00	\$275,000	
148	Furnish and Construct No. 10 - #136 CWR Crossover, Complete including Ballast	1	Each	\$225,000.00	\$225,000	
147	Track Subballast (12") - Material Provided & Installed (2 Tons/C.Y.)	28,390	Tons	\$50.00	\$1,419,500	
148	Furnish & Install Concrete Crossing	30	L.F.	\$150.00	\$4,500	
149	Box Culvert Extention	1	Lump Sum	\$150,000.00	\$150,000	
150	Box Culvert Headwall	1	Lump Sum	\$25,000.00	\$25,000	
151	Wasden Road Signal Modification (By CSX)	1	Allowance	\$50,000.00	\$50,000	
152	Railroad Bridge	1	Lump Sum	\$4,100,000.00	\$4,100,000	
153						
Lead Track Construction Subtotal:					\$8,640,600	
Buildings (Includes Furniture)						
154	Administration Building	5,600	S.F.	\$315.00	\$1,764,000	
155	Maintenance Building	4,100	S.F.	\$245.00	\$1,004,500	
156	Guard Building	1	Each	\$55,000.00	\$55,000	
157	Site Fuel Tank (6,000 gal.), Includes dispenser system	1	Allowance	\$100,000.00	\$100,000	
158	Dumpster Enclosure, Includes Fencing/Screening Wall W/Gate	2	Allowance	\$20,000.00	\$40,000	
159						
Buildings (Includes Furniture) Subtotal:					\$2,963,500	
SUBTOTAL CIVIL & TRACK CONSTRUCTION COSTS:					\$61,361,883	
Engineering & Construction Management						
160	Engineering/Permitting/Surveying	3.0%	Allowance	\$1,840,856.49	\$1,840,856	
161	Construction Management (Includes Material Testing)	3.0%	Allowance	\$1,840,856.49	\$1,840,856	
162						
Engineering & Construction Management Subtotal:					\$3,681,713	
Equipment/Technology Costs						
161	Rubber Tired Gantry	2	Each	\$2,800,000.00	\$5,600,000	
162	Reach Stacker	2	Each	\$950,000.00	\$1,900,000	
163	Empty Handler	1	Each	\$700,000.00	\$700,000	
164	Hostler	3	Each	\$100,000.00	\$300,000	
165	Grunt	2	Each	\$20,000.00	\$40,000	
166	Fork Lift	1	Each	\$50,000.00	\$50,000	
167	Bomb Cart	3	Each	\$40,000.00	\$120,000	
168	Terminal Vehicles	3	Each	\$50,000.00	\$150,000	
169	Technology	1	Allowance	\$1,500,000.00	\$1,500,000	
170						
Equipment Cost Subtotal:					\$10,360,000	
Contingency (Construction Costs Only)				20%	\$12,272,380	
TOTAL OPINION OF PROBABLE PROJECT COST (INCLUDES CONTINGENCY):					\$87,675,976	

Notes:

- Unit abbreviations: T.F. = Track Feet; L.F. = Linear Feet; L.Y. = Linear Yard, C.Y. = Cubic Yard; S.F. = Square Feet; S.Y.= Square Yard.
- Opinion of Probable Cost based on Concept Plan completed by EMH&T on October 10, 2022.
- Cost does not include any crane tie downs that may be required from the crane manufacturer.
- Cost does not include mitigation or fees associated with Wetland or Stream Impacts.
- '*' denotes contingency item.