

ITEM 503E11101	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN,
	LS

ITEM 503E21301	UNCLASSIFIED EXCAVATION, AS PER PLAN,
	LS

ITEM 507E00400	STEEL PILES, MISC.: SOLDIER PILES, W27X178, FT
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Pile/Shaft Number	Station	Top of Cap Elev.	Top of Pile Elev.	Bott. Cap/Top Shaft	Exist. Ground Elev.	Bottom of Facing Elev.	Bottom of Shaft Elev.	Pile Length	Shaft Length	Pile Size	Shaft Dia.	Shaft Casing	Number Shear Studs	Timber Lagging (SF)	Winchell SUP Elev	Aesthetic Surface Treatment (SF)	Station	XGL
1	1+04.09	508.95	507.95	506.95	509.28	495	467	40.95	42.28	W27 X 258	48	YES	20	47.80147	500.19	31.74	1+00.00	509.5
2	1+22.27	508.42	507.42	506.42	508.32	495	467	40.42	41.32	W27 X 258	48	YES	20		500.15	136.64	1+25.00	508.18
3	1+32.64	508.12	507.12	506.12	507.99	495	467	40.12	40.99	W27 X 258	48	NO	18	113.0825	500.13	73.90	1+50.00	507.55
4	1+39.66	507.91	506.91	505.91	507.81	495	477.5	29.41	30.31	W27 X 178	42	NO	18	73.63767	500.13	48.31	1+75.00	506.47
5	1+46.67	507.90	506.90	505.90	507.63	495	477.5	29.40	30.13	W27 X 178	42	NO	18	72.80887	500.12	47.52	2+00.00	505.09
6	1+53.69	507.90	506.90	505.90	507.39	495	477.5	29.40	29.89	W27 X 178	42	NO	18	72.88467	500.13	47.57	2+25.00	504.11
7	1+60.70	507.90	506.90	505.90	507.09	495	477.5	29.40	29.59	W27 X 178	42	NO	18	72.77567	500.14	47.45	2+50.00	503.57
8	1+67.72	507.90	506.90	505.90	506.78	495	477.5	29.40	29.28	W27 X 178	42	NO	18	72.88467	500.15	47.44	2+75.00	503.44
9	1+74.73	507.70	506.70	505.70	506.48	495	477.5	29.20	28.98	W27 X 178	42	NO	18	72.10458	500.16	46.59	3+00.00	503.37
10	1+81.74	507.40	506.40	505.40	506.10	495	477.5	28.90	28.60	W27 X 178	42	NO	18	70.43892	500.17	44.75	3+25.00	502.74
11	1+88.76	507.10	506.10	505.10	505.71	495	477.5	28.60	28.21	W27 X 178	42	NO	18	68.55087	500.19	42.62	3+50.00	503.66
12	1+95.77	506.80	505.80	504.80	505.32	495	477.5	28.30	27.82	W27 X 178	42	NO	16	66.45779	500.20	40.37	3+75.00	504.87
13	2+02.79	506.51	505.51	504.51	504.98	495	477.5	28.01	27.48	W27 X 178	42	NO	16	64.56378	500.21	38.27	4+00.00	505.76
14	2+09.80	506.21	505.21	504.21	504.71	495	477.5	27.71	27.21	W27 X 178	42	NO	16	62.47666	500.20	36.14	4+25.00	505.52
15	2+16.82	505.91	504.91	503.91	504.43	495	477.5	27.41	26.93	W27 X 178	42	NO	16	60.57669	500.19	34.15	4+50.00	505.52
16	2+23.83	505.61	504.61	503.61	504.16	495	476	28.61	28.16	W27 X 258	48	NO	14	58.49553	500.18	32.07	4+75.00	505.45
17	2+37.86	505.02	504.02	503.02	503.83	495	476	28.02	27.83	W27 X 258	48	NO	14		500.13	58.35	5+00.00	505.36
18	2+44.87	504.72	503.72	502.72	503.68	495	480.5	23.22	23.18	W27 X 178	42	NO	14	52.52525	500.10	26.30	5+25.00	505.37
19	2+51.89	504.50	503.50	502.50	503.56	495	480.5	23.00	23.06	W27 X 178	42	NO	14	50.87893	500.07	24.75	5+50.00	505.5
20	2+58.90	504.50	503.50	502.50	503.52	495	480.5	23.00	23.02	W27 X 178	42	NO	14	50.075	500.01	24.26	5+75.00	505.69
21	2+65.92	504.50	503.50	502.50	503.49	495	480.5	23.00	22.99	W27 X 178	42	NO	14	50.15	499.96	24.67	6+00.00	505.93
22	2+72.93	504.50	503.50	502.50	503.45	495	480.5	23.00	22.95	W27 X 178	42	NO	14	50.075	499.91	25.01	6+25.00	505.9
23	2+79.94	505.00	504.00	503.00	503.43	495	480.5	23.50	22.93	W27 X 178	42	NO	14	51.74417	499.84	27.19	6+50.00	505.8
24	2+86.96	505.00	504.00	503.00	503.41	495	480.5	23.50	22.91	W27 X 178	42	NO	14	53.49333	499.76	29.49	6+75.00	505.57
25	2+93.97	505.00	504.00	503.00	503.39	495	480.5	23.50	22.89	W27 X 178	42	NO	14	53.41333	499.69	29.98	7+00.00	505.3
26	3+00.99	505.00	504.00	503.00	503.35	495	480.5	23.50	22.85	W27 X 178	42	NO	14	53.49333	499.61	30.57	7+25.00	505.1
27	3+08.00	505.00	504.00	503.00	503.17	495	480.5	23.50	22.67	W27 X 178	42	NO	14	53.41333	499.51	31.14	7+50.00	505.13
28	3+15.02	505.00	504.00	503.00	502.99	495	480.5	23.50	22.50	W27 X 178	42	NO	14	53.49333	499.41	31.88	7+75.00	505.45
29	3+22.03	505.00	504.00	503.00	502.81	495	480.5	23.50	22.50	W27 X 178	42	NO	14	53.41333	499.31	32.52	8+00.00	505.76
30	3+29.05	505.00	504.00	503.00	502.89	495	480.5	23.50	22.50	W27 X 178	42	NO	14	53.49333	499.20	33.30	8+25.00	505.68
31	3+36.06	505.00	504.00	503.00	503.15	495	480.5	23.50	22.65	W27 X 178	42	NO	14	53.41333	499.08	34.07	8+50.00	506.28
32	3+43.07	505.00	504.00	503.00	503.40	495	480.5	23.50	22.90	W27 X 178	42	NO	14	53.41333	498.96	34.91	8+75.00	506.87
33	3+50.09	505.00	504.00	503.00	503.66	495	480.5	23.50	23.16	W27 X 178	42	NO	14	53.49333	498.84	35.81	9+00.00	507.5
34	3+57.10	505.00	504.00	503.00	504.00	495	480.5	23.50	23.50	W27 X 178	42	NO	14	53.41333	498.69	36.70	9+25.00	507.3
35	3+64.11	505.00	504.00	503.00	504.34	495	480.5	23.50	23.84	W27 X 178	42	NO	14	53.41333	498.55	37.72	9+50.00	505.48
36	3+71.12	505.00	504.00	503.00	504.68	495	480.5	23.50	24.18	W27 X 178	42	NO	14	53.41333	498.40	38.74	9+75.00	504.56
37	3+78.13	505.00	504.00	503.00	504.98	495	480.5	23.50	24.48	W27 X 178	42	NO	14	53.41333	498.25	39.78	10+00.00	504.1
Total								990.97	986.68				574	2103.18		1482.69	10+25.00	503.75

LENGTH = 813 FT

<u>10+50.00</u>	<u>502.7</u>
<u>10+75.00</u>	<u>502.21</u>
<u>11+00.00</u>	<u>501.56</u>
<u>11+25.00</u>	<u>500.97</u>

ITEM 507E00400 STEEL PILES, MISC.: SOLDIER PILES, W27X258, FT

LENGTH = 179 FT

ITEM 509E26000 GALVANIZED STEEL REINFORCEMENT, LB

WEIGHT = 176174 LBS - SEE REINFORCING STEEL IST

ITEM 510E10000 DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, EACH

Pile/Shaft Number	Station	Top of Cap Elev.	Bott. Cap/Top Shaft	Exist. Ground Elev.	Bottom of Footing Elev.	Bottom of Facing Elev.	Bottom of Shaft Elev.	Shaft Length	Facing Height (ft)	Number Dowels	Winchell SUP Elev.	Aesthetic Surface Treatment (SF)
38	3+82.62	503.80	501.80	505.14	493.00	494	475.25	29.89	7.80	8.00	498.15	20.88
39	3+87.85	503.80	501.80	505.33	493.00	494	475.25	30.08	7.80	8.00	498.03	24.63
40	3+93.08	503.80	501.80	505.51	493.00	494	475.25	30.26	7.80	8.00	497.92	25.24
41	3+98.31	503.80	501.80	505.70	493.00	494	475.25	30.45	7.80	8.00	497.80	25.85
42	4+03.54	503.80	501.80	505.73	493.00	494	475.25	30.48	7.80	8.00	497.68	26.47
43	4+08.77	503.80	501.80	505.68	493.00	494	475.25	30.43	7.80	8.00	497.56	27.09
44	4+14.01	503.80	501.80	505.63	493.00	494	475.25	30.38	7.80	8.00	497.44	27.77
45	4+19.24	503.80	501.80	505.58	493.00	494	475.25	30.33	7.80	8.00	497.32	28.34
46	4+24.47	503.80	501.80	505.53	493.00	494	475.25	30.28	7.80	8.00	497.20	28.97
47	4+29.70	503.80	501.80	505.52	493.00	494	475.25	30.27	7.80	8.00	497.08	29.60
48	4+34.93	503.80	501.80	505.52	493.00	494	468.25	37.27	7.80	8.00	496.95	30.26
49	4+40.16	503.80	501.80	505.52	490.50	491.5	468.25	37.27	10.30	11.00	496.83	30.91
50	4+45.40	503.80	501.80	505.52	490.50	491.5	468.25	37.27	10.30	11.00	496.70	31.63
51	4+50.63	503.80	501.80	505.52	490.50	491.5	468.25	37.27	10.30	11.00	496.57	32.24
52	4+55.86	503.80	501.80	505.50	490.50	491.5	468.25	37.25	10.30	11.00	496.42	32.97
53	4+61.09	503.80	501.80	505.49	490.50	491.5	468.25	37.24	10.30	11.00	496.27	33.75
54	4+66.32	503.80	501.80	505.47	490.50	491.5	468.25	37.22	10.30	11.00	496.12	34.54
55	4+71.55	503.80	501.80	505.46	490.50	491.5	468.25	37.21	10.30	11.00	495.97	35.33
56	4+76.78	503.80	501.80	505.44	490.50	491.5	468.25	37.19	10.30	11.00	495.81	36.14
57	4+82.05	503.80	501.80	505.42	490.50	491.5	468.25	37.17	10.30	11.00	495.64	37.28
58	4+87.31	503.80	501.80	505.41	490.50	491.5	468.25	37.16	10.30	11.00	495.47	38.12
59	4+92.57	503.80	501.80	505.39	490.50	491.5	468.25	37.14	10.30	11.00	495.29	39.03
60	4+97.83	503.80	501.80	505.37	490.50	491.5	468.25	37.12	10.30	11.00	495.12	39.94
61	5+03.10	503.80	501.80	505.36	490.50	491.5	468.25	37.11	10.30	11.00	494.93	40.96
62	5+08.36	503.80	501.80	505.36	490.50	491.5	468.25	37.11	10.30	11.00	494.74	41.90
63	5+13.63	503.80	501.80	505.37	488.50	489.5	468.25	37.12	12.30	13.00	494.54	43.02
64	5+18.91	503.80	501.80	505.37	488.50	489.5	468.25	37.12	12.30	13.00	494.34	44.15
65	5+24.19	503.80	501.80	505.37	488.50	489.5	468.25	37.12	12.30	13.00	494.14	45.20
66	5+29.47	503.80	501.80	505.39	488.50	489.5	468.25	37.14	12.30	13.00	493.92	46.30
67	5+34.75	503.80	501.80	505.42	488.50	489.5	468.25	37.17	12.30	13.00	493.70	47.47
68	5+40.03	503.80	501.80	505.45	488.50	489.5	468.25	37.20	12.30	13.00	493.47	48.66
69	5+45.31	503.80	501.80	505.48	488.50	489.5	468.25	37.23	12.30	13.00	493.25	49.84
70	5+50.59	503.80	501.80	505.50	488.50	489.5	468.25	37.25	12.30	13.00	493.02	51.03

WALL 2
ESTIMATED QUANTITIES

71	5+55.87	503.80	501.80	505.54	488.50	489.5	468.25	37.29	12.30	13.00	492.78	52.27
72	5+61.15	503.80	501.80	505.58	488.50	489.5	468.25	37.33	12.30	13.00	492.53	53.56
73	5+66.43	503.80	501.80	505.62	487.00	488	460.75	44.87	13.80	14.00	492.29	54.86
74	5+71.70	503.80	501.80	505.66	487.00	488	460.75	44.91	13.80	14.00	492.04	56.04
75	5+76.98	503.80	501.80	505.71	487.00	488	460.75	44.96	13.80	14.00	491.80	57.45
76	5+82.26	503.80	501.80	505.76	487.00	488	460.75	45.01	13.80	14.00	491.54	58.77
77	5+87.54	503.80	501.80	505.81	487.00	488	460.75	45.06	13.80	14.00	491.29	60.09
78	5+92.82	503.80	501.80	505.86	485.50	486.5	460.75	45.11	15.30	16.00	491.04	61.42
79	5+98.10	503.80	501.80	505.91	485.50	486.5	460.75	45.16	15.30	16.00	490.79	62.75
80	6+03.38	503.80	501.80	505.93	485.50	486.5	460.75	45.18	15.30	16.00	490.54	64.07
81	6+08.64	503.80	501.80	505.92	485.50	486.5	460.75	45.17	15.30	16.00	490.29	65.14
82	6+13.91	503.80	501.80	505.91	485.50	486.5	460.75	45.16	15.30	16.00	490.04	66.57
83	6+19.18	503.80	501.80	505.91	485.50	486.5	460.75	45.16	15.30	16.00	489.79	67.88
84	6+24.44	503.80	501.80	505.90	484.00	485	460.75	45.15	16.80	17.00	489.55	69.06
85	6+29.71	503.80	501.80	505.88	484.00	485	460.75	45.13	16.80	17.00	489.30	70.50
86	6+34.98	503.80	501.80	505.86	484.00	485	460.75	45.11	16.80	17.00	489.05	71.80
87	6+40.25	503.80	501.80	505.84	484.00	485	460.75	45.09	16.80	17.00	488.81	73.10
88	6+45.51	503.80	501.80	505.82	484.00	485	460.75	45.07	16.80	17.00	488.56	74.25
89	6+50.78	503.80	501.80	505.79	483.00	484	449.5	56.29	17.80	18.00	488.32	75.68
90	6+56.05	503.80	501.80	505.74	483.00	484	449.5	56.24	17.80	18.00	488.11	76.87
91	6+61.31	503.80	501.80	505.70	483.00	484	449.5	56.20	17.80	18.00	487.90	77.83
92	6+66.58	503.80	501.80	505.65	483.00	484	449.5	56.15	17.80	18.00	487.69	79.09
93	6+71.85	503.80	501.80	505.60	483.00	484	449.5	56.10	17.80	18.00	487.48	80.20
94	6+77.11	503.80	501.80	505.55	483.00	484	449.5	56.05	17.80	18.00	487.29	81.08
95	6+82.38	503.80	501.80	505.49	482.00	483	449.5	55.99	18.80	19.00	487.15	82.09
96	6+87.65	503.80	501.80	505.43	482.00	483	449.5	55.93	18.80	19.00	487.01	82.84
97	6+92.92	503.80	<u>501.80</u>	505.38	482.00	483	449.5	55.88	18.80	19.00	486.87	83.58
98	6+98.18	503.80	501.80	505.32	482.00	483	449.5	55.82	18.80	19.00	486.73	84.16
99	7+03.45	503.80	<u>501.80</u>	505.27	482.00	483	449.5	55.77	18.80	19.00	486.63	84.94
100	7+08.72	503.80	501.80	505.23	482.00	483	449.5	55.73	18.80	19.00	486.56	85.38
101	7+13.98	503.80	<u>501.80</u>	505.19	482.00	483	449.5	55.69	18.80	19.00	486.50	85.58
102	7+19.25	503.80	501.80	505.15	482.00	483	449.5	55.65	18.80	19.00	486.43	86.11
103	7+24.52	503.80	<u>501.80</u>	505.10	482.00	483	449.5	55.60	18.80	19.00	486.36	86.47
104	7+29.78	503.80	501.80	505.11	482.00	483	449.5	55.61	18.80	19.00	486.35	86.51
105	7+35.05	503.80	<u>501.80</u>	505.11	482.00	483	449.5	55.61	18.80	19.00	486.35	86.69
106	7+40.32	503.80	501.80	505.12	482.00	483	449.5	55.62	18.80	19.00	486.35	86.69
107	7+45.59	503.80	<u>501.80</u>	505.12	482.00	483	449.5	55.62	18.80	19.00	486.35	86.69
108	7+50.85	503.80	501.80	505.14	482.00	483	449.5	55.64	18.80	19.00	486.36	86.50
109	7+56.12	503.80	<u>501.80</u>	505.21	482.00	483	449.5	55.71	18.80	19.00	486.43	86.44
110	7+61.39	503.80	501.80	505.28	482.00	483	449.5	55.78	18.80	19.00	486.50	86.06
111	7+66.65	503.80	<u>501.80</u>	505.34	482.00	483	449.5	55.84	18.80	19.00	486.58	85.52
112	7+71.92	503.80	501.80	505.41	482.00	483	449.5	55.91	18.80	19.00	486.65	85.31
113	7+77.19	503.80	<u>501.80</u>	505.48	482.00	483	449.5	55.98	18.80	19.00	486.75	84.85
114	7+82.45	503.80	501.80	505.54	482.00	483	449.5	56.04	18.80	19.00	486.89	84.05
115	7+87.72	503.80	<u>501.80</u>	505.61	482.00	483	449.5	56.11	18.80	19.00	487.04	83.45
116	7+92.99	503.80	501.80	505.67	482.00	483	449.5	56.17	18.80	19.00	487.18	82.70
117	7+98.26	503.80	<u>501.80</u>	505.74	482.00	483	449.5	56.24	18.80	19.00	487.32	81.94
118	8+03.52	503.80	501.80	505.75	482.00	483	449.5	56.25	18.80	19.00	487.51	80.91
119	8+08.79	503.80	<u>501.80</u>	505.73	482.00	483	449.5	56.23	18.80	19.00	487.73	79.99
120	8+14.06	503.80	501.80	505.72	482.00	483	449.5	56.22	18.80	19.00	487.94	78.86
121	8+19.32	503.80	<u>501.80</u>	505.70	482.00	483	449.5	56.20	18.80	19.00	488.16	77.58
122	8+24.59	503.80	501.80	505.68	482.00	483	449.5	56.18	18.80	19.00	488.37	76.60

WALL 2
ESTIMATED QUANTITIES

123	8+29.86	503.80	<u>501.80</u>	505.80	482.00	483	449.5	56.30	18.80	19.00	488.65	75.29
124	8+35.12	503.80	501.80	505.92	482.00	483	449.5	56.42	18.80	19.00	488.94	73.67
125	8+40.39	503.80	<u>501.80</u>	506.05	482.00	483	449.5	56.55	18.80	19.00	489.22	72.31
126	8+45.66	503.80	501.80	506.18	484.50	485.5	449.5	56.68	16.30	17.00	489.51	70.81
127	8+50.92	503.80	<u>501.80</u>	506.30	484.50	485.5	459.5	46.80	16.30	17.00	489.80	69.15
128	8+56.19	503.80	501.80	506.43	484.50	485.5	459.5	46.93	16.30	17.00	490.16	67.56
129	8+61.46	503.80	<u>501.80</u>	506.55	484.50	485.5	459.5	47.05	16.30	17.00	490.51	65.68
130	8+66.73	503.80	501.80	506.67	484.50	485.5	459.5	47.17	16.30	17.00	490.87	63.80
131	8+71.99	503.80	<u>501.80</u>	506.80	487.00	488	459.5	47.30	13.80	14.00	491.23	61.81
132	8+77.26	503.80	501.80	506.93	487.00	488	459.5	47.43	13.80	14.00	491.60	60.01
133	8+82.53	503.80	<u>501.80</u>	507.06	487.00	488	465	42.06	13.80	14.00	491.99	57.99
134	8+87.79	503.80	501.80	507.19	487.00	488	465	42.19	13.80	14.00	492.39	55.81
135	8+93.06	503.80	<u>501.80</u>	507.33	487.00	488	465	42.33	13.80	14.00	492.78	53.84
136	8+98.33	503.80	501.80	507.46	488.50	489.5	465	42.46	12.30	13.00	493.18	51.76
137	9+03.59	503.80	<u>501.80</u>	507.47	488.50	489.5	465	42.47	12.30	13.00	493.57	49.59
138	9+08.86	503.80	501.80	507.43	488.50	489.5	451	56.43	12.30	13.00	493.97	47.60
139	9+14.13	503.80	<u>501.80</u>	507.39	488.50	489.5	451	56.39	12.30	13.00	494.36	45.51
140	9+19.40	503.80	501.80	507.34	488.50	489.5	451	56.34	12.30	13.00	494.76	43.42
141	9+24.66	505.50	<u>503.50</u>	507.30	490.50	491.5	451	56.30	12.00	12.00	495.15	45.73
142	9+29.93	505.50	503.50	506.94	490.50	491.5	465.25	41.69	12.00	12.00	495.52	48.29
143	9+35.20	505.50	<u>503.50</u>	506.56	490.50	491.5	465.25	41.31	12.00	12.00	495.88	46.37
144	9+40.46	505.50	503.50	506.17	490.50	491.5	465.25	40.92	12.00	12.00	496.24	44.38
145	9+45.73	505.50	<u>503.50</u>	505.79	492.00	493	466.75	39.04	10.50	11.00	496.61	42.56
146	9+51.00	505.50	503.50	505.44	492.00	493	466.75	38.69	10.50	11.00	496.96	40.67
147	9+56.26	505.50	<u>503.50</u>	505.25	492.00	493	466.75	38.50	10.50	11.00	497.27	38.84
148	9+61.53	505.50	503.50	505.06	492.00	493	466.75	38.31	10.50	11.00	497.59	37.26
149	9+66.80	505.50	<u>503.50</u>	504.86	493.50	494.5	468.25	36.61	9.00	9.00	497.90	35.60
150	9+72.07	505.50	503.50	504.67	493.50	494.5	468.25	36.42	9.00	9.00	498.22	33.95
151	9+77.33	505.50	<u>503.50</u>	504.52	493.50	494.5	468.25	36.27	9.00	9.00	498.51	32.29
152	9+82.60	505.50	503.50	504.42	494.50	495.5	469.25	35.17	8.00	9.00	498.77	30.88
153	9+87.87	505.50	<u>503.50</u>	504.32	494.50	495.5	469.25	35.07	8.00	9.00	499.04	29.48
Total								5259.76	1677.00		6726.30	

NUMBER DOWEL HOLES = 1677 EACH

ITEM 511E46012 CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, CY

SOLDIER PILE FACING

FACING THICKNESS 18 IN

Section	Begin Station	End Station	Begin Height	End Height	Volume (CY)
1	1+00.00	1+40.00	12.07	10.90	25.52
2	1+40.00	1+70.00	10.90	10.90	18.17
3	1+70.00	2+50.00	10.90	7.50	40.89
4	2+50.00	2+76.00	7.50	7.50	10.83
5	2+76.00	3+80.14	8.00	8.00	46.28
Total					141.70

TANGENT DRILLED SHAFT FACING

FACING THICKNESS19IN

VOID AREA PER SHAFT4.56SF

VOID AREA BETWEEN SHAFTS AND BACK SIDE OF FACING

Section	Begin Station	End Station	Begin Height	End Height	Volume (CY)
1	3+80.14	4+36.14	7.80	7.80	26.93
2	4+36.14	5+12.14	10.30	10.30	47.64
3	5+12.14	5+64.14	12.30	12.30	39.58
4	5+64.14	5+92.14	13.80	13.80	24.99
5	5+92.14	6+22.14	15.30	15.30	29.50
6	6+22.14	6+50.14	16.80	16.80	30.42
7	6+50.14	6+78.14	17.80	17.80	32.23
8	6+78.14	8+44.14	18.80	18.80	186.18
9	8+44.14	8+69.14	16.30	16.30	26.65
10	8+69.14	8+94.14	13.80	13.80	22.56
11	8+94.14	9+23.42	12.30	12.30	23.20
12	9+23.42	9+42.42	11.50	11.50	14.75
13	9+42.42	9+64.42	10.00	10.00	14.59
14	9+64.42	9+80.42	8.50	8.50	9.41
15	9+80.42	9+90.42	7.50	7.50	5.66
14	9+08.50	9+08.50	12.07	10.90	1.94
Total					536.24

CAST IN PLACE WALL

STEM THICKNESS12IN

COPING THICKNESS14IN

Section	Begin Station	End Station	Begin Height	End Height	Volume (CY)
1	9+90.50	10+50.25	8.50	7.50	17.70
2	10+50.25	11+10.00	10.30	10.30	26.59
1-COPING	9+90.50	10+50.25	2.00	2.00	0.74
Total					45.03

OVERALL TOTAL = 723CY

ITEM 511E46512 CLASS QC1 CONCRETE WITH QC/QA, FOOTING, CY

TANGENT DRILLED SHAFT WALL FACING FOOTING

FOOTING THICKNESS 12 IN
FOOTING WIDTH 27 IN

Section	Length	Volume (CY)
1	56.00	4.67
2	76.00	6.33
3	52.00	4.33
4	28.00	2.33
5	30.00	2.50
6	28.00	2.33
7	28.00	2.33
8	166.00	13.83
9	25.00	2.08
10	25.00	2.08
11	29.28	2.44
12	19.00	1.58
13	22.00	1.83
14	16.00	1.33
15	10.00	0.83
Total		50.86

CAST IN PLACE WALL FOOTING

FOOTING THICKNESS 24 IN
FOOTING WIDTH 84 IN
TOE WIDTH 18 IN
TOE HEIGHT 18 IN

FOOTING AREA 16.25 SQ. FT.
LEGNTH 119.5 FT

VOLUME CIP WALL FTG 71.92 CY

TOTAL FTG = 123.00 CY

ITEM 511E53010 CLASS QC1 CONCRETE, MISC.: SHAFT CAP WITH QC/QA, CY

Section	Begin Station	End Station	Cap Thicknes	Cap Width (f	Volume (CY)
Soldier Pile	1+00.00	3+80.14	2.00	6.33	131.42
T Drilled Shaft to Ped Bridge	3+80.14	9+10.07	2.00	7.42	291.13
Ped Bridge	9+10.07	9+23.40	0.00	0.00	0.00
Ped Bridge to End T DS	9+23.40	9+90.50	2.50	8.92	55.40
Catch Basin Cutout	4+61.43	4+66.27	2.00	-3.38	-1.21
Catch Basin Cutout	5+11.73	5+16.57	2.00	-2.08	-0.75
Catch Basin Cutout	5+78.38	5+83.22	2.00	-1.08	-0.39
Catch Basin Cutout	6+85.08	6+89.92	2.00	-1.50	-0.54
MSE LP Cutout	9+87.00	9+90.50	2.50	-2.00	-0.65
Total					474.43

Paid for with pedestrian bridge

OVERALL TOTAL = 475 CY

ITEM 511E53010 CLASS QC1 CONCRETE, MISC.: MOMENT SLAB WITH QC/QA, CY

Section	Begin Station	End Station	Area (SF)	Volume (CY)
Soldier Pile Sect AA	1+00.00	2+76.00	7.08	46.17
Soldier Pile Sect CC	2+76.00	3+80.14	6.33	24.43
T Drilled Shaft Sect EE	2+76.00	9+23.40	9.08	217.67
Ped Bridge	9+10.07	9+23.40	0.00	0.00
			12.07	0.00
Total				288.27

Section	Begin Station	End Station	MS Thicknes	MS Width (ft	Volume (CY)
Catch Basin Cutout	4+61.43	4+66.27	0.75	-3.38	-0.45
Catch Basin Cutout	5+11.73	5+16.57	0.75	-2.08	-0.28
Catch Basin Cutout	5+78.38	5+83.22	0.75	-1.08	-0.15
Catch Basin Cutout	6+85.08	6+89.92	0.75	-1.50	-0.20
Total					-1.08

OVERALL TOTAL = 288 CY

ITEM 512E10000 SEALING OF CONCRETE SURFACES, SY

Assume soil is 3" below railing construction joint

Section	Begin Station	End Station	ing Perimete	Area (SY)
Soldier Pile Railing + Cap	1+00.00	2+76.00	13.83	270.52
Soldier Pile Railing + Cap	2+76.00	3+80.14	13.33	154.28
TDS Railing + Cap	3+80.14	9+10.07	14.53	855.62
Ped Bridge Cap	9+10.07	9+23.40	0.00	0.00
TDS Cap	9+23.40	9+90.50	9.75	72.69
Total				1353.11

Paid for with pedestrian bridge

Station	W SUP PG
1+00.00	500.2
1+25.00	500.14
1+50.00	500.12
1+75.00	500.16
2+00.00	500.21
2+25.00	500.18
2+50.00	500.08
2+75.00	499.89
3+00.00	499.62
3+25.00	499.27
3+50.00	498.84
3+75.00	498.32

ITEM 516E136001" PREFORMED EXPANSION JOINT FILLER, SF

AT WALL EXPANSION JOINTS

Height (ft)	Width (ft)	Area (SF)
10.9	1.50	16.35
7.5	1.50	11.25
8	1.50	12.00
8	1.50	12.00
9	1.58	14.25
11.3	1.58	17.89
12.3	1.58	19.48
16.8	1.58	26.60
18.8	1.58	29.77
18.8	1.58	29.77
16.3	1.58	25.81
12.3	1.58	19.48
13.5	1.58	21.38
9.5	1.17	11.08
7.5	1.17	8.75
Total		275.84

AT WALL CAP

Height (ft)	Width (ft)	Area (SF)
2	6.33	12.67
2	6.33	12.67
2	6.33	12.67
2	6.33	12.67
2	6.33	12.67
2	7.42	14.83
2	7.42	14.83
2	7.42	14.83
2	7.42	14.83
2	7.42	14.83
2	7.42	14.83
2	7.42	14.83
2.5	8.92	22.29
2.5	8.92	22.29
Total		211.75

TOTAL = 488 SF

ITEM 517E76300RAILING, MISC.: TEXAS RAILING, FT

START STATION1+00.00
END STATION9+09.91

TOTAL = 810 FT

ITEM 518E20000

PREFABRICATED GEOCOMPOSITE DRAIN, SY

SOLDIER PILE FACING

W27 x 258 FLANGE WIDTH	14.3	IN
W27 x 178 FLANGE WIDTH	14.1	IN

Width (ft)	Height (ft)	Area (SY)
3.49	11.95	4.64
16.99	11.42	21.55
9.18	11.12	11.34
5.85	10.91	7.09
5.83	10.90	7.07
5.85	10.90	7.08
5.83	10.90	7.07
5.85	10.90	7.08
5.83	10.70	6.94
5.84	10.40	6.74
5.84	10.10	6.56
5.84	9.80	6.36
5.84	9.51	6.17
5.84	9.21	5.97
5.84	8.91	5.79
5.84	8.61	5.58
12.86	8.02	11.45
5.83	7.72	5.00
5.84	7.50	4.87
5.83	7.50	4.86
5.85	7.50	4.87
5.83	7.50	4.86
5.83	8.00	5.19
5.84	8.00	5.20
5.84	8.00	5.19
5.84	8.00	5.20
5.83	8.00	5.19
5.84	8.00	5.20
5.83	8.00	5.19
5.85	8.00	5.20
5.83	8.00	5.19
5.83	8.00	5.19
5.84	8.00	5.20
5.84	8.00	5.19
5.83	8.00	5.19
5.83	8.00	5.19
5.83	8.00	5.19
Total		236.78

AREA

237SY



ITEM 518E21200

POROUS BACKFILL WITH GEOTEXTILE FABRIC, CY

SOLDIER PILE WALL

AREA	4	SF
LENGTH	280	FT
VOLUME	41.48	CY

TANGENT SHAFT WALL

AREA	3.17	SF
LENGTH	610.5	FT
INCREASE % FOR STEPS	10%	
VOLUME	78.76	CY

CIP WALL

WIDTH	1.5	FT
AVERAGE HEIGHT	6	FT
LENGTH	119.5	FT
VOLUME	39.83	CY

TOTAL VOLUME = 160CY

ITEM 518E39900

4" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, FT

NUMBER OF BAYS	36.00	
LENGTH PER BAY	2.00	FT

TOTAL LENGTH = 72FT

ITEM 518E40000

6" PERFORATED CORRUGATED PLASTIC PIPE, FT

SOLDIER PILE WALL	280.00	FT
TANGENT DS WALL	606.78	FT
TANGENT DS WALL	122.50	FT

TOTAL LENGTH = 1010FT

ITEM 518E40010

6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, FT

STATION	LENGTH	
385	20	
610	20	
765	20	FT
835	20	

TOTAL LENGTH = 80FT

ITEM 524E94803

DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN,FT

TOTAL LENGTH =

807

FT

ITEM 524E94903

DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN,FT

TOTAL LENGTH =

181

FT

ITEM 524E94915

DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK, AS PER PLAN,FT

TOTAL LENGTH =

5260

FT

ITEM SPECIALE53000200

STRUCTURES: PRECONSTRUCTION CONDITION SURVEY,

LS

ITEM SPECIALE53051010

RETAINING WALL, PRECAST CONCRETE LAGGING, SF

HEIGHT BTWN PILES 1 & 2

11.95

FT

HEIGHT OF PRECAST

10.00

FT

LENGTH

17.83

FT

AREA

178.33

SF

HT BTWN PILES 16 & 17

8.02

FT

HEIGHT OF PRECAST

8.00

FT

LENGTH

13.67

FT

AREA

109.33

SF

TOTAL

288

SF

ITEM SPECIALE53051020

RETAINING WALL, TIMBER LAGGING,SF

TOTAL

2,104

SF

ITEM 607E39901

VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN,FT

TOTAL LENGTH =

809

FT

ITEM 840E26050

AESTHETIC SURFACE TREATMENT, SF

SOLDIER PILE

1482.69

SF

TANGENT DRILLED SHAFT

6726.30

SF

AVG HT EXPOSED CIP WALL

2.20

FT

CIP WALL AREA

191.20

SF

TOTAL AREA =

8,401

SF

ITEM 894E10000		THERMAL INTEGRITY PROFILING (TIP) TEST, EACH	
# SHAFTS WITH CAGE		<u>116</u>	
% TESTED		<u>10%</u>	
TOTAL		12	EACH