

**PILE LAYOUT**

Pile	Offset (Ft.)	Top of Wall El.	Top of Pile Elevation	Bott. of Facing Elevation	Section	Pile Tip Elevation	Pile Length (Ft.)
P-1	4.66	15.37	14.37	11.36	W10x33	-3.81	18.18
P-2	4.66	15.35	14.35	11.35	W10x33	-3.81	18.17
P-3	4.66	15.34	14.34	11.34	W10x33	-3.81	18.15
P-4	4.66	15.33	14.33	11.33	W10x33	-4.34	18.67
P-5	4.66	15.32	14.32	11.32	W10x33	-4.34	18.66
P-6	4.66	15.32	14.32	11.32	W10x33	-4.34	18.66
P-7	4.66	15.31	14.31	11.30	W10x33	-5.40	19.71
P-8	4.66	15.30	14.30	11.30	W10x33	-5.40	19.70
P-9	4.66	15.29	14.29	11.29	W10x33	-5.40	19.69
P-10	4.66	15.28	14.28	11.29	W10x33	-5.40	19.69
P-11	4.83	15.28	14.28	11.14	W14x61	-10.65	24.93
P-12	4.83	15.28	14.28	10.99	W14x61	-10.65	24.92
P-13	4.83	15.27	14.27	10.85	W14x61	-10.65	24.92
P-14	4.83	15.27	14.27	10.71	W14x61	-10.65	24.92
P-15	4.83	15.28	14.28	10.16	W14x61	-11.95	26.23
P-16	4.83	15.29	14.29	9.94	W14x61	-11.95	26.24
P-17	4.83	15.30	14.30	9.73	W14x61	-11.95	26.25
P-18	4.83	15.31	14.31	9.51	W14x61	-11.95	26.26
P-19	5.36	15.32	14.32	8.86	W27x84	-16.64	30.96
P-20	5.36	15.34	14.34	8.64	W27x84	-16.64	30.98
P-21	5.36	15.36	14.36	8.42	W27x84	-16.64	31.00
P-22	5.36	15.39	14.39	8.20	W27x84	-16.64	31.02
P-23	5.36	15.40	14.40	7.55	W27x84	-17.94	32.35
P-24	5.36	15.43	14.43	7.33	W27x84	-17.94	32.37
P-25	5.36	15.46	14.46	7.12	W27x84	-17.94	32.40
P-26	5.36	15.49	14.49	6.90	W27x84	-17.94	32.43
P-27	5.36	15.51	14.51	6.25	W27x84	-19.25	33.76
P-28	5.36	15.54	14.54	6.03	W27x84	-19.25	33.79
P-29	5.36	15.57	14.57	5.81	W27x84	-19.25	33.82
P-30	5.36	15.60	14.60	5.59	W27x84	-19.25	33.85
P-31	5.37	15.63	14.63	4.95	W27x94	-18.91	33.54
P-32	5.37	15.65	14.65	4.74	W27x94	-18.91	33.57
P-33	5.37	15.68	14.68	4.53	W27x94	-18.91	33.59
P-34	5.37	15.71	14.71	4.32	W27x94	-18.91	33.62
P-35	5.37	15.74	14.74	4.11	W27x94	-18.91	33.65
P-36	2.03	15.75	14.75	3.71	W27x94	-20.04	34.79
P-37	2.04	15.74	14.74	3.52	W27x94	-20.04	34.78
P-38	2.05	15.73	14.73	3.34	W27x94	-20.04	34.77
P-39	2.05	15.73	14.73	3.15	W27x94	-20.04	34.77
P-40	2.06	15.72	14.72	2.96	W27x94	-20.04	34.76
P-41	2.04	15.71	14.71	2.61	W27x146	-21.25	35.96
P-42	2.03	15.69	14.69	2.44	W27x146	-21.25	35.94
P-43	2.03	15.68	14.68	2.28	W27x146	-21.25	35.93
P-44	2.02	15.66	14.66	2.11	W27x146	-21.25	35.91
P-45	2.02	15.65	14.65	1.95	W27x146	-21.25	35.90
P-46	2.01	15.62	14.62	1.68	W27x146	-21.92	36.54
P-47	2.01	15.58	14.58	1.57	W27x146	-21.92	36.50
P-48	2.01	15.53	14.53	1.45	W27x146	-21.92	36.45
P-49	2.00	15.49	14.49	1.34	W27x146	-21.92	36.41
P-50	2.00	15.45	14.45	1.23	W27x146	-21.92	36.37
P-51	2.03	15.41	14.41	1.04	W27x146	-22.41	36.82
P-52	2.11	15.38	14.38	0.96	W27x146	-22.41	36.79
P-53	2.19	15.35	14.35	0.88	W27x146	-22.41	36.76
P-54	2.27	15.32	14.32	0.79	W27x146	-22.41	36.74
P-55	2.34	15.29	14.29	0.71	W27x146	-22.41	36.71
P-56	2.49	15.27	14.27	0.58	W27x146	-22.29	36.55
P-57	2.71	15.24	14.24	0.52	W27x146	-22.29	36.53

**PILE LAYOUT**

Pile	Offset (Ft.)	Top of Wall El.	Top of Pile Elevation	Bott. of Facing Elevation	Section	Pile Tip Elevation	Pile Length (Ft.)
P-58	2.92	15.22	14.22	0.46	W27x146	-22.29	36.51
P-59	3.14	15.20	14.20	0.40	W27x146	-22.29	36.48
P-60	3.36	15.17	14.17	0.34	W27x146	-22.29	36.46
P-61	3.46	15.15	14.15	0.33	W27x146	-22.29	36.43
P-62	3.46	15.12	14.12	0.37	W27x146	-22.29	36.41
P-63	3.46	15.09	14.09	0.41	W27x146	-22.29	36.38
P-64	3.46	15.07	14.07	0.45	W27x146	-22.29	36.35
P-65	3.46	15.04	14.04	0.49	W27x146	-22.29	36.32
P-66	3.44	15.04	14.04	0.60	W27x129	-22.65	36.69
P-67	3.44	15.07	14.07	0.68	W27x129	-22.65	36.72
P-68	3.44	15.10	14.10	0.75	W27x129	-22.65	36.75
P-69	3.44	15.13	14.13	0.83	W27x129	-22.65	36.78
P-70	3.44	15.16	14.16	0.90	W27x129	-22.65	36.81
P-71	3.44	15.19	14.19	1.08	W27x129	-22.21	36.39
P-72	3.44	15.22	14.22	1.19	W27x129	-22.21	36.42
P-73	3.44	15.25	14.25	1.30	W27x129	-22.21	36.45
P-74	3.44	15.28	14.28	1.41	W27x129	-22.21	36.48
P-75	3.44	15.31	14.31	1.51	W27x129	-22.21	36.51
P-76	3.44	15.33	14.33	1.76	W27x129	-21.56	35.89
P-77	3.44	15.36	14.36	1.91	W27x129	-21.56	35.91
P-78	3.44	15.38	14.38	2.05	W27x129	-21.56	35.94
P-79	3.44	15.40	14.40	2.19	W27x129	-21.56	35.96
P-80	3.44	15.43	14.43	2.33	W27x129	-21.56	35.98
P-81	3.46	15.48	14.48	2.77	W27x114	-22.12	36.59
P-82	3.46	15.50	14.50	2.97	W27x114	-22.12	36.62
P-83	3.46	15.53	14.53	3.16	W27x114	-22.12	36.65
P-84	3.46	15.56	14.56	3.35	W27x114	-22.12	36.68
P-85	3.46	15.59	14.59	3.58	W27x114	-21.35	35.94
P-86	3.46	15.61	14.61	3.78	W27x114	-21.35	35.96
P-87	3.47	15.63	14.63	3.97	W27x114	-21.35	35.98
P-88	3.47	15.65	14.65	4.16	W27x114	-21.35	36.00
P-89	3.47	15.67	14.67	4.32	W27x114	-21.35	36.02
P-90	3.47	15.69	14.69	4.52	W27x114	-20.38	35.08
P-91	3.47	15.71	14.71	4.69	W27x114	-20.38	35.10
P-92	3.48	15.73	14.73	4.86	W27x114	-20.38	35.12
P-93	3.48	15.75	14.75	5.03	W27x114	-20.38	35.14
P-94	3.48	15.77	14.77	5.20	W27x114	-20.38	35.16
P-95	3.52	15.77	14.77	5.51	W27x114	-19.38	34.15
P-96	3.58	15.76	14.76	5.65	W27x114	-19.38	34.14
P-97	3.64	15.75	14.75	5.80	W27x114	-19.38	34.13
P-98	3.70	15.74	14.74	5.94	W27x114	-19.38	34.12
P-99	3.76	15.73	14.73	6.08	W27x114	-19.38	34.11
P-100	4.02	15.71	14.71	6.38	W24x76	-16.32	31.04
P-101	4.21	15.69	14.69	6.54	W24x76	-16.32	31.01
P-102	4.26	15.66	14.66	6.70	W27x102	-18.36	33.03
P-103	4.50	15.61	14.61	7.11	W27x102	-18.36	32.97
P-104	4.51	15.55	14.55	7.36	W24x76	-16.32	30.88
P-105	4.41	15.50	14.50	7.62	W24x76	-16.32	30.83
P-106	4.38	15.46	14.46	8.11	W24x76	-16.32	30.79
P-107	4.42	15.43	14.43	8.34	W24x76	-16.32	30.76
P-108	4.47	15.40	14.40	8.57	W24x76	-16.32	30.73

**OFFSET TABLE**

PT.	Station	Offset	'A'
1	17+95.22	4.47'	-0.36'
2	17+28.72	4.64'	-0.26'
3	16+78.72	4.77'	-0.20'
4	16+28.83	4.87'	0.0'
5	15+79.06	5.09'	0.29'
6	15+29.26	5.29'	0.32'
7	14+79.47	5.49'	0.41'
8	14+30.54	5.67'	0.34'
8A	14+29.68	5.63'	0.33'
9	13+79.38	4.62'	0.38'
9A	13+79.90	4.63'	0.36'
9B	13+30.13	4.60'	0.44'
9C	12+72.08	4.57'	0.21'
10	11+69.25	4.65'	NA
11	11+09.44	3.14'	NA
12	10+23.13	3.21'	NA

'A' Distance between Exist. E.O.P. and W Wentworth Ave and Prop. E.O.P. (Negative value equates to left offset)

**NOTES**

- All W12 and W14 piles have drilled shaft dia = 2'-0". All W24 and W27 piles have drilled shaft dia = 3'-0", except for W27x146, which has drilled shaft dia = 3'-6".

**BILL OF MATERIAL**

Item	Unit	Quantity
Furnishing Soldier Piles (W Sections)	Foot	3,536
Drill/Set Soldier Piles (In Soil)	Cu. Ft.	26,076

SHEET 11 OF 24

REVISIONS	
NAME	DATE
REVISED	6/13/06
REVISED	7/13/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 COOK COUNTY  
 STA. 3532+90.57 TO STA. 3543+57.42  
 RETAINING WALL S-455-F  
 PILE LAYOUT  
 S.N. 016-W978

SCALE: NTS  
 DATE: JUNE 9, 2006  
 DRAWN BY: MTR  
 CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.  
 CONSULTING ENGINEERS  
 Chicago, Illinois  
 312 228.0100  
 www.bbainc.com

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