DocuSign Envelope ID: FC61B8C7-3B3D-4C36-9AE3-112CEBEC2D45

TIP NO.	SHEET NO.
W-5107	SIGN-2

APPROVED: DocuSigned by: Zhaolong Ting ECE10C7968CC46F... 11/24/2014

DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 032179 ENGINEER ZHAOLONG TING

WSP
Transportation & Infrastructure
15401 Weston Parkway, Suite 100 • Cary, NC 27513
Tel: 919.678.0035 Fax: 919.678.0206
NC License No. F-0891

TYPE "A" GROUND MOUNTED SIGNS

SIGN NO.	SIGN TYPE	SIGN SIZE (in.) w	x	h	ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft) SNS HT H	MTG HT C	EMBED MENT	LEFT SUPPORT (ft) S	L	TOTAL LENGTH	CENTER SUPPORT (ft) S	L	TOTAL LENGTH	RIGHT SUPPORT (ft) S	L	TOTAL LENGTH	FOOTING DIAMETE (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	PLAIN FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
101	A	156	X	150	8+65±	2	W10x22	BA	N/A	N/A	18.00	12.50	7.00	6	1.98	21.48	27.48	0.00	0.00	0.00	3.43	22.93	28.93	2.5	6.5	1479.87	0.00	2.36	0.00	
102	A	156	X	150	26+18±	2	W8x21	BA	N/A	N/A	18.00	12.50	7.00	6	1.18	20.68	26.68	0.00	0.00	0.00	2.07	21.57	27.57	2	6.5	1324.87	0.00	1.51	0.00	
103	A	156	X	156	13+00.00	2	W10x26	BA	N/A	N/A	30.00	13.00	7.00	6	3.51	23.51	29.51	0.00	0.00	0.00	4.66	24.66	30.66	2.5	6.5	1852.56	0.00	2.36	0.00	
104	A	156	X	132	49+00.00	2	W8x18	BA	N/A	N/A	30.00	11.00	7.00	5.5	2.08	20.08	25.58	0.00	0.00	0.00	0.34	18.34	23.84	2	6	1051.68	0.00	1.40	0.00	
105	A	186	X	72	56+00.00	2	W6x16	BA	N/A	N/A	18.00	6.00	7.00	5	1.90	14.90	19.90	0.00	0.00	0.00	2.71	15.71	20.71	1.5	5.5	782.14	0.00	0.72	0.00	
106	A	156	X	132	60+00.00	2	W8x21	BA	N/A	N/A	18.00	11.00	7.00	6	2.38	20.38	26.38	0.00	0.00	0.00	4.51	22.51	28.51	2	6.5	1338.31	0.00	1.51	0.00	
107	A	186	X	72	86+50.00	2	W6x16	BA	N/A	N/A	18.00	6.00	7.00	5.5	2.39	15.39	20.89	0.00	0.00	0.00	4.52	17.52	23.02	1.5	6	834.94	0.00	0.79	0.00	
108	A	156	X	132	87+00.00	2	W8x21	BA	N/A	N/A	18.00	11.00	7.00	6	1.63	19.63	25.63	0.00	0.00	0.00	3.34	21.34	27.34	2	6.5	1297.99	0.00	1.51	0.00	
109	A	186	X	78	101+60.00	2	W6x16	BA	N/A	N/A	18.00	6.50	7.00	5.5	2.30	15.80	21.30	0.00	0.00	0.00	2.84	16.34	21.84	1.5	6	822.62	0.00	0.79	0.00	
110	A	186	X	78	119+30.00	2	W8x18	BA	N/A	N/A	18.00	6.50	7.00	5	3.75	17.25	22.25	0.00	0.00	0.00	6.04	19.54	24.54	2	5.5	1004.34	0.00	1.28	0.00	
111	A	186	X	72	SEE NOTE 5	2	W6x16	BA	N/A	N/A	18.00	6.00	7.00	5	3.14	16.14	21.14	0.00	0.00	0.00	3.56	16.56	21.56	1.5	5.5	815.58	0.00	0.72	0.00	
112	A	186	X	72	SEE NOTE 5	2	W6x16	BA	N/A	N/A	28.00	6.00	7.00	5.5	4.85	17.85	23.35	0.00	0.00	0.00	2.63	15.63	21.13	1.5	6	844.06	0.00	0.79	0.00	
201	A	72	X	60	21+82.00	2	S3x5.7	BA	N/A	N/A	10.00	5.00	7.00	3.5	0.36	12.36	15.86	0.00	0.00	0.00	0.47	12.47	15.97	1	4	216.96	0.00	0.00	0.23	
202	A	72	X	60	43+21.00	2	S3x5.7	BA	N/A	N/A	10.00	5.00	7.00	3.5	0.01	12.01	15.51	0.00	0.00	0.00	0.01	12.01	15.51	1	4	212.35	0.00	0.00	0.23	
203	A	72	X	60	109+71.00	2	S3x5.7	BA	N/A	N/A	10.00	5.00	7.41	3.5	-0.32	12.09	15.59	0.00	0.00	0.00	-0.41	12.00	15.50	1	4	212.75	0.00	0.00	0.23	
204	A	72	X	60	110+72.00	2	S4x7.7	BA	N/A	N/A	10.00	5.00	7.00	3.5	0.90	12.90	16.40	0.00	0.00	0.00	1.48	13.48	16.98	1	4	297.63	0.00	0.00	0.23	
																										TOTAL 14388.68	TOTAL 0.00	TOTAL 15.74	TOTAL 0.93	
																								USE:		14389	0	16	1	

NOTES

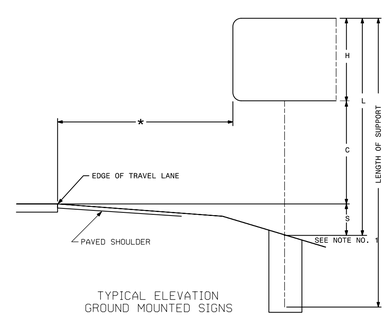
1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.

2. FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES

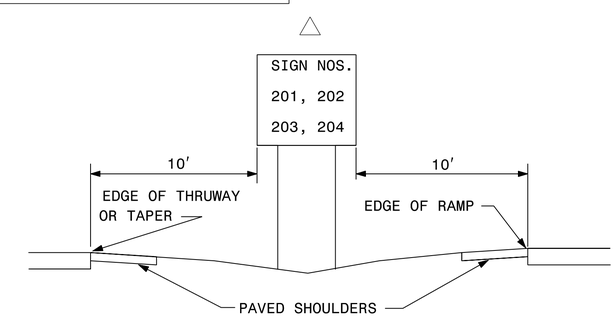
3. PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.

4. IF THE GROUNDWATER IS ENCOUNTERED AT AN DEPTH SHALLOWER THAN 7 FEET, THE SIGN FOUNDATION MUST BE REDESIGNED BASED UPON THE ACTUAL FIELD CONDITIONS. THE FOUNDATION DESIGN DOES NOT APPLY TO VERY SOFT OR LOOSE SOIL, MUCK, WEATHERED ROCK, OR HARD ROCK.

5. SIGNS NO. 111 AND 112 SHALL BE FIELD LOCATED BY THE ENGINEER. SIGN SUPPORT REQUIREMENTS MAY BE DIFFERENT FROM WHAT IS SHOWN ABOVE. SIGN NO. 112 MAY BE REPLACED WITH A ¼ MILE EXIT SIGN IF APPROVED BY THE ENGINEER.



TYPICAL ELEVATION
GROUND MOUNTED SIGNS



TYPE "A" GROUND MOUNTED SIGNS

11/3/2014
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USER:104226