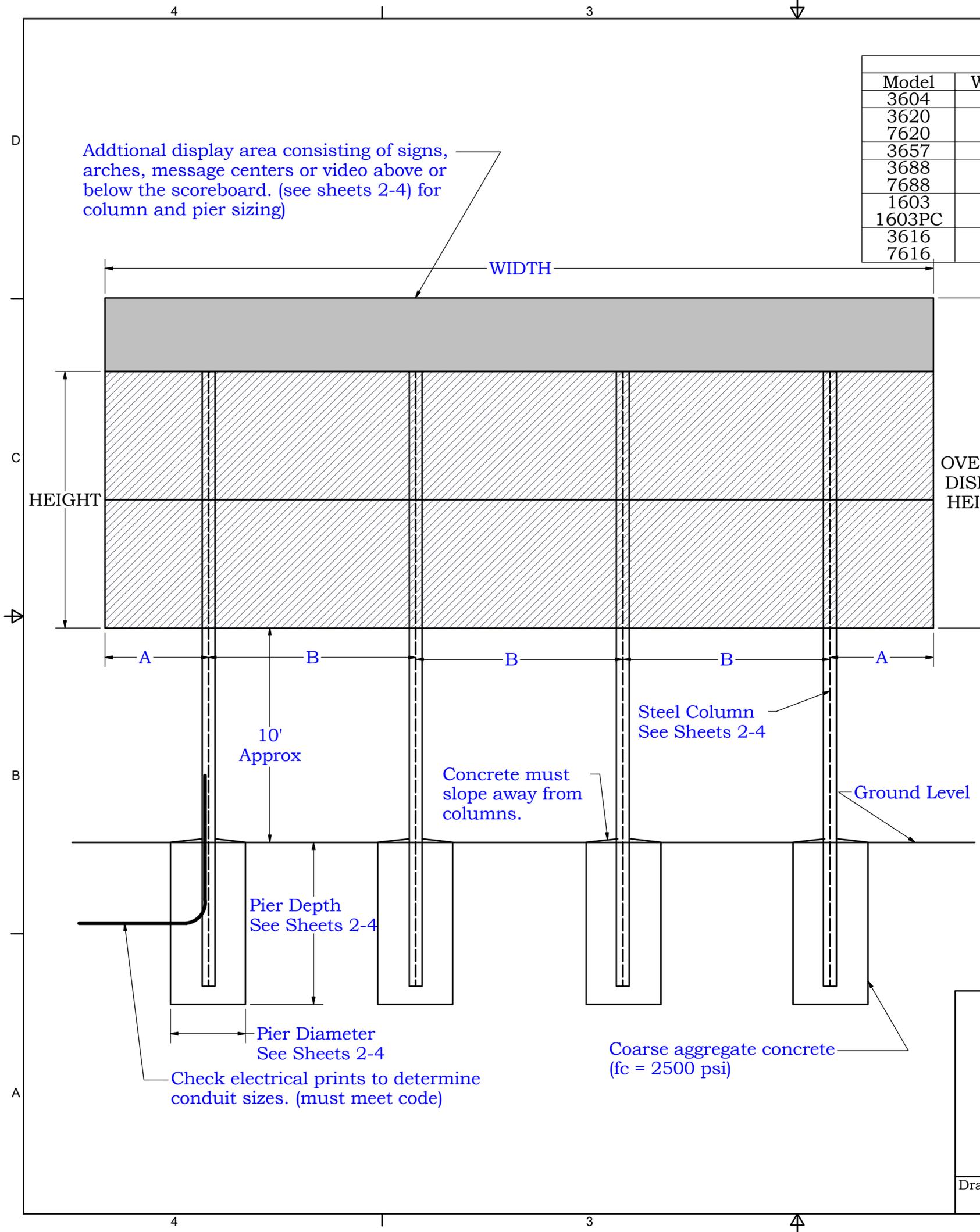


DIMENSIONS AND SPECIFICATIONS						
Model	WIDTH	HEIGHT	WEIGHT	WEIGHT W/ETN	DIM "A"	DIM "B"
3604	30'	10' 3/16"	630 lbs	692 lbs	3'	8'
3620 7620	32'	8' 3/16"	760 lbs	822 lbs	4'	8'
3657	32'	10' 3/16"	890 lbs	952 lbs	4'	8'
3688 7688	32'	8' 3/16"	N/A	930 lbs	4'	8'
1603 1603PC	36'	9' 3/16"	930 lbs	992 lbs	3'	10'
3616 7616	36'	10' 3/16"	1020 lbs	1220 lbs	3'	10'

- General Notes:
1. Column steel to be grade A992 (50 ksi steel minimum).
 2. Bracing steel to be ASTM A500 Grade B minimum (see note 1 on sheets 4-6).
 3. Minimum bolt grade: A307
 4. All welds to conform to AWS standards
 5. The dimensions in the charts on sheets 4-6 are calculated using the requirements specified in IBC 2009, and the Manual of Steel Construction (13th Edition). Soil lateral bearing pressure is considered to be 150 psf/f.
 6. The weights of signs to be calculated using 4.3 lb/sq. ft of sign area.
 7. The weights of Nevco message centers to be calculated using 8.5 lb/sq ft.
 8. The weights of Nevco video displays to be calculated using 9.5 lbs/sq. ft.
 9. The weights of Nevco arches to be calculated using 7.7 lbs/sq. ft.

Important. Read before installation.
 This is not an engineered drawing. It is intended for representational purposes only. The dimensions called out on this drawing are intended to be used as a guide only, and are not intended to be suitable for all conditions. Adding signs or other components around the scoreboard beyond the scope of this drawing or increasing the display height from the ground will affect the installation requirements. Nevco recommends that you consult a professional engineer or architect familiar with the area before attempting installation. They can verify that the selected mounting beams or posts along with the brackets, screws, and other hardware items provided by others or Nevco are adequate for your local soil conditions, wind loads and other local codes. If procedures are used that are not covered in this drawing, careful analysis of the installation is urged.



Outdoor Scoreboard Installation 4 Column Multi-Section		 Nevco, Inc. Greenville, Illinois 62246		
				Drawing No. 241-0365
Drawn	WHP	Date	12/14/18	Sheet 1 of 7

90 MPH WIND ZONES

Rev	B
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Exposure C 30 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05)

Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Colu	Braced Column
10	2' (3')	10'6" (9')	30'6" (29')	W10 x 33	W10 x 22
12	2' (3')	11' (9'6")	33' (31'6")	W10 x 39	W10 x 26
14	2' (3')	12' (10')	36' (34')	W14 x 43	W12 x 30
16	2' (3')	13' (11')	39' (37')	W10 x 49	W14 x 30
18	2' (3')	14' (11'6")	42' (39'6")	W12 x 53	W14 x 34
20	2' (3')	15'6" (12')	45'6" (42')	W10 x 60	W16 x 36
22	2' (3')	16'6" (13')	48'6" (45')	W12 x 65	W16 x 40
25	2' (3')	18'6" (14'6")	53'6" (49'6")	W12 x 79	W14 x 48
30	2' (3')	21'6" (16'6")	61'6" (56'6")	W12 x 96	W18 x 55
35	3' (4')	20' (16'6")	65' (61'6")	W14 x 120	W21 x 68
40	3' (4')	22' (18'6")	72' (68'6")	W14 x 145	W24 x 76

Exposure B 30 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05)

Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column
10	2' (3')	9' (7'6")	29' (27'6")	W12 x 26	W8 x 21
12	2' (3')	9'6" (8'6")	31'6" (30'6")	W10 x 33	W10 x 22
14	2' (3')	10'6" (9')	34'6" (33')	W10 x 33	W14 x 22
16	2' (3')	11' (9'6")	37' (35'6")	W10 x 39	W12 x 26
18	2' (3')	11'6" (10')	39'6" (38')	W10 x 45	W12 x 30
20	2' (3')	12'6" (10'6")	42'6" (40'6")	W10 x 49	W12 x 30
22	2' (3')	13'6" (11')	45'6" (43')	W12 x 53	W14 x 34
25	2' (3')	15' (12')	50' (47')	W12 x 65	W16 x 36
30	2' (3')	17' (13'6")	57' (53'6")	W12 x 79	W21 x 44
35	3' (4')	16' (13'6")	61' (58'6")	W12 x 106	W18 x 55
40	3' (4')	18' (15'6")	68' (65'6")	W12 x 120	W21 x 62

Exposure C 32 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05 Exposure C for 90mph Wind Load)

Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
8	2' (3')	10' (8'6")	28' (26'6")	W8 x 28	W10 x 22
10	2' (3')	11' (9'6")	31' (29'6")	W10 x 33	W10 x 26
12	2' (3')	11'6" (10')	33'6" (32')	W10 x 39	W12 x 26
14	2' (3')	12'6" (10'6")	36'6" (34'6")	W10 x 45	W12 x 30
16	2' (3')	14' (11'6")	40' (37'6")	W10 x 49	W14 x 34
18	2' (3')	15'6" (12')	43'6" (40')	W10 x 60	W16 x 36
20	2' (3')	16'6" (13')	46'6" (43')	W12 x 65	W16 x 40
22	2' (3')	18' (14')	50' (46')	W12 x 72	W21 x 44
25	2' (3')	20' (15'6")	55' (50'6")	W12 x 79	W18 x 50
30	3' (4')	18' (15')	58' (55')	W24 x 104	W21 x 55
35	3' (4')	21'6" (18')	66'6" (63')	W14 x 132	W24 x 68
40	3' (4')	24' (20')	74' (70')	W14 x 159	W24 x 84

Exposure B 32 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 90mph Wind Load)

Display Height	Pier Dia	Pier Depth	Col. Len.	Unbraced Column	Braced Column *
8	2' (3')	8'6" (7'6")	26'6" (25'6")	W8 x 24	W8 x 18
10	2' (3')	9'6" (8')	29'6" (28')	W8 x 28	W8 x 21
12	2' (3')	10' (8'6")	32' (30'6")	W10 x 33	W10 x 22
14	2' (3')	11' (9'6")	35' (33'6")	W10 x 39	W10 x 26
16	2' (3')	11'6" (10')	37'6" (36')	W14 x 43	W12 x 26
18	2' (3')	12'6" (10'6")	40'6" (38'6")	W10 x 49	W12 x 30
20	2' (3')	13'6" (11')	43'6" (41')	W12 x 53	W14 x 34
22	2' (3')	14'6" (11'6")	46'6" (43'6")	W10 x 60	W18 x 35
25	2' (3')	16' (12'6")	51' (47'6")	W12 x 65	W16 x 40
30	3' (4')	14'6" (12'6")	54'6" (52'6")	W12 x 87	W16 x 50
35	3' (4')	17'6" (14'6")	62'6" (59'6")	W12 x 106	W21 x 55
40	3' (4')	19'6" (16'6")	69'6" (66'6")	W14 x 120	W21 x 68

Exposure C 36 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05 Exposure C for 90mph Wind Load)

Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
8	2'	10'6"	28'6"	W12 x 30	W14 x 22
10	2'	11'6"	31'6"	W14 x 38	W12 x 26
12	2' (3')	12'6" (11')	34'6" (33')	W14 x 43	W12 x 30
14	2' (3')	14' (11'6")	38' (35'6")	W10 x 49	W14 x 34
16	2' (3')	15'6" (12')	41'6" (38')	W12 x 53	W16 x 36
18	2' (3')	17' (13'6")	45' (41'6")	W14 x 61	W16 x 40
20	2' (3')	19' (14'6")	49' (44'6")	W12 x 72	W14 x 48
22	3' (4')	16' (13'6")	48' (45'6")	W12 x 79	W18 x 50
25	3' (4')	17'6" (14'6")	52'6" (49'6")	W12 x 96	W21 x 55
30	3' (4')	20'6" (17')	60'6" (57')	W14 x 109	W21 x 68
35	3' (4')	23' (19'6")	68' (64'6")	W14 x 145	W24 x 76
40	3' (4')	27'6" (23')	77'6" (73')	W14 x 176	W24 x 94

Exposure B 36 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 90mph Wind Load)

Display Height	Pier Dia	Pier Depth	Col Len	Unbraced Column	Braced Column *
8	2'	9'	27'	W8 x 24	W8 x 21
10	2'	10'	30'	W10 x 33	W10 x 22
12	2' (3')	11' (9'6")	33' (31'6")	W10 x 33	W10 x 26
14	2' (3')	11'6" (10')	35'6" (34')	W10 x 39	W12 x 26
16	2' (3')	12'6" (10'6")	38'6" (36'6")	W14 x 48	W12 x 30
18	2' (3')	13'6" (11'6")	41'6" (39'6")	W12 x 53	W14 x 34
20	2' (3')	15' (12')	45' (42')	W10 x 60	W16 x 36
22	3' (4')	12'6" (11'6")	44'6" (43'6")	W12 x 65	W16 x 40
25	3' (4')	14' (12')	49' (47')	W12 x 72	W21 x 44
30	3' (4')	16'6" (14')	56'6" (54')	W12 x 96	W18 x 55
35	3' (4')	19' (16')	64' (61')	W14 x 109	W21 x 62
40	3' (4')	22' (18'6")	72' (68'6")	W14 x 145	W24 x 76

Chart Notes:

1. * Requires that braces be placed every 10' interval from ground level that spans all columns. See detail on sheet 5.
2. Wind loading figured at **Exposure "C" - Open terrain** with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.
3. Wind loading figured at **Exposure "B" - Urban and suburban areas**, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.

Outdoor Scoreboard
Installation
4 Column
Multi-Section



Nevco, Inc.
Greenville, Illinois 62246

Drawing No. 241-0365

Drawn **WHP**

Date 12/14/18

Sheet 2 of 7

130 MPH WIND ZONES

Exposure C 30 FEET WIDE INSTALLATIONS

Exposure B 30 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05)					
Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Colu	Braced Column *
10	2' (3')	14'6" (11'6")	34'6" (31'6")	W14 x 43	W14 x 34
12	2' (3')	16'6" (13')	38'6" (35')	W12 x 53	W16 x 36
14	2' (3')	18'6" (14'6")	42'6" (38'6")	W14 x 61	W21 x 44
16	2' (3')	21' (16')	47' (42')	W16 x 67	W16 x 50
18	2' (3')	23' (17'6")	51' (45'6")	W18 x 76	W18 x 55
20	2' (3')	24'6" (19')	54'6" (49')	W12 x 96	W21 x 55
22	3' (4')	20'6" (17')	52'6" (49')	W21 x 101	W21 x 62
25	3' (4')	22'6" (19')	57'6" (54')	W24 x 117	W24 x 68
30	3' (4')	26'6" (22')	66'6" (62')	W14 x 145	W24 x 84
35	3' (4')	31'6" (26')	76'6" (71')	W18 x 192	W24 x 104
40	3' (4')	35'6" (29'6")	85'6" (79'6")	W14 x 233	W24 x 131

Column and Pier Requirements (Based on ASCE 7-05)					
Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
10	2' (3')	11'6" (10')	31'6" (30')	W10 x 39	W12 x 26
12	2' (3')	13' (11')	35' (33')	W14 x 43	W12 x 30
14	2' (3')	14'6" (11'6")	38'6" (35'6")	W10 x 49	W14 x 34
16	2' (3')	16'6" (12'6")	42'6" (38'6")	W10 x 60	W16 x 40
18	2' (3')	18' (14')	46' (42')	W12 x 65	W21 x 44
20	2' (3')	19'6" (15')	49'6" (45')	W12 x 72	W16 x 50
22	3' (4')	16'6" (13'6")	48'6" (45'6")	W12 x 79	W18 x 50
25	3' (4')	18' (15')	53' (50')	W12 x 96	W21 x 55
30	3' (4')	21' (17'6")	61' (57'6")	W14 x 120	W21 x 68
35	3' (4')	25'6" (21')	70'6" (66')	W18 x 158	W24 x 84
40	3' (4')	28'6" (24')	78'6" (74')	W18 x 192	W21 x 101

Exposure C 32 FEET WIDE INSTALLATIONS

Exposure B 32 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05)					
Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
8	2' (3')	13'6" (11')	31'6" (29')	W12 x 40	W14 x 30
10	2' (3')	15'6" (12')	35'6" (32')	W14 x 48	W18 x 35
12	2' (3')	18' (14')	40' (36')	W10 x 60	W16 x 40
14	2' (3')	20' (15'6")	44' (39'6")	W12 x 65	W14 x 48
16	2' (3')	22' (17')	48' (43')	W14 x 74	W18 x 50
18	2' (3')	25' (19')	53' (47')	W18 x 86	W21 x 55
20	2' (3')	27' (20'6")	57' (50'6")	W18 x 97	W21 x 62
22	3' (4')	22' (18'6")	54' (50'6")	W21 x 101	W21 x 68
25	3' (4')	24'6" (20'6")	59'6" (55'6")	W18 x 130	W24 x 76
30	3' (4')	28'6" (23'6")	68'6" (63'6")	W14 x 159	W24 x 94
35	3' (4')	34'6" (28'6")	79'6" (73'6")	W21 x 201	W24 x 117
40	3' (4')	39' (32')	89' (82')	W14 x 257	W24 x 146

Column and Pier Requirements (Based on ASCE 7-05)					
Display Height	Pier Dia	Pier Depth	Col. Len.	Unbraced Column	Braced Column *
8	2' (3')	11' (9'6")	29' (27'6")	W10 x 33	W10 x 26
10	2' (3')	12'6" (10'6")	32'6" (30'6")	W10 x 39	W12 x 30
12	2' (3')	14' (11'6")	36' (33'6")	W12 x 45	W14 x 34
14	2' (3')	15'6" (12')	39'6" (36')	W12 x 53	W16 x 36
16	2' (3')	17'6" (13'6")	43'6" (39'6")	W14 x 61	W16 x 40
18	2' (3')	19'6" (15')	47'6" (43')	W14 x 68	W16 x 50
20	2' (3')	21' (16'6")	51' (46'6")	W18 x 76	W18 x 50
22	3' (4')	17'6" (14'6")	49'6" (46'6")	W12 x 87	W21 x 55
25	3' (4')	19'6" (16'6")	54'6" (51'6")	W21 x 101	W21 x 62
30	3' (4')	23' (19')	63' (59')	W24 x 131	W18 x 76
35	3' (4')	27'6" (23')	72'6" (68')	W18 x 175	W24 x 94
40	3' (4')	31' (26')	81' (76')	W21 x 201	W24 x 104

Exposure C 36 FEET WIDE INSTALLATIONS

Exposure B 36 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05)					
Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
8	2' (3')	15'6" (12')	33'6" (30')	W14 x 43	W14 x 34
10	3' (4')	13'6" (12')	33'6" (32')	W12 x 53	W16 x 40
12	3' (4')	15'6" (13')	37'6" (35')	W14 x 61	W14 x 48
14	3' (4')	17'6" (14'6")	41'6" (38'6")	W12 x 72	W18 x 55
16	3' (4')	19'6" (16')	45'6" (42')	W18 x 86	W21 x 55
18	3' (4')	21'6" (17'6")	49'6" (45'6")	W18 x 97	W21 x 62
20	3' (4')	23'6" (19'6")	53'6" (49'6")	W21 x 101	W24 x 68
22	3' (4')	25'6" (21')	57'6" (53')	W24 x 117	W24 x 76
25	3' (4')	28' (23'6")	63' (58'6")	W18 x 143	W24 x 94
30	3' (4')	33' (27')	73' (67')	W24 x 176	W24 x 104
35	3' (4')	37'6" (31')	82'6" (76')	W14 x 233	W24 x 131
40	3' (4')	44'6" (36'6")	94'6" (86'6")	W18 x 283	W24 x 176

Column and Pier Requirements (Based on ASCE 7-05)					
Display Height	Pier Dia	Pier Depth	Col Len	Unbraced Colum	Braced Column *
8	2' (3')	12' (10'6")	30' (28'6")	W16 x 36	W12 x 26
10	3' (4')	11'6" (10')	31'6" (30')	W14 x 43	W14 x 30
12	3' (4')	12'6" (11')	34'6" (33')	W12 x 53	W16 x 36
14	3' (4')	14' (12')	38' (36')	W14 x 61	W16 x 40
16	3' (4')	15'6" (13')	41'6" (39')	W12 x 65	W16 x 50
18	3' (4')	17' (14')	45' (42')	W18 x 76	W18 x 50
20	3' (4')	18'6" (15'6")	48'6" (45'6")	W18 x 86	W21 x 55
22	3' (4')	20' (16'6")	52' (48'6")	W16 x 100	W21 x 62
25	3' (4')	22'6" (18'6")	57'6" (53'6")	W14 x 109	W24 x 68
30	3' (4')	26' (21'6")	66' (61'6")	W14 x 145	W24 x 84
35	3' (4')	30' (25')	75' (70')	W14 x 176	W21 x 101
40	3' (4')	35'6" (29'6")	85'6" (79'6")	W14 x 233	W24 x 131

Chart Notes:

- * Requires that braces be placed every 10' interval from ground level that spans all columns. See detail on sheet 5.
- Wind loading figured at **Exposure "C" - Open terrain** with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.
- Wind loading figured at **Exposure "B" - Urban and suburban areas**, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.

Outdoor Scoreboard
Installation
4 Column
Multi-Section



Nevco, Inc.
Greenville, Illinois 62246

Drawing No. 241-0365

Drawn **WHP** Date 12/14/18

Sheet 3 of 7

150 MPH WIND ZONES

Exposure C 30 FEET WIDE INSTALLATIONS

Exposure B 30 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05)

Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column
10	2' (3')	17'6" (13'6")	37'6" (33'6")	W12 x 53	W14 x 30
12	3' (4')	15'6" (13')	37'6" (35')	W14 x 61	W18 x 35
14	3' (4')	17' (14'6")	41' (38'6")	W16 x 67	W16 x 40
16	3' (4')	19'6" (16')	45'6" (42')	W18 x 86	W16 x 50
18	3' (4')	21' (17'6")	49' (45'6")	W18 x 97	W18 x 50
20	3' (4')	23' (19')	53' (49')	W21 x 101	W21 x 55
22	3' (4')	24'6" (20'6")	56'6" (52'6")	W24 x 117	W21 x 62
25	3' (4')	27'6" (22'6")	62'6" (57'6")	W18 x 143	W21 x 68
30	3' (4')	32' (26'6")	72' (66'6")	W14 x 176	W24 x 84
35	3' (4')	38'6" (31'6")	83'6" (76'6")	W14 x 233	W24 x 104
40	3' (4')	43'6" (35'6")	93'6" (85'6")	W14 x 283	W24 x 117

Column and Pier Requirements (Based on ASCE 7-05)

Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column
10	2' (3')	13'6" (11')	33'6" (31')	W12 x 40	W16 x 40
12	3' (4')	12' (11')	34' (33')	W10 x 49	W21 x 44
14	3' (4')	13'6" (11'6")	37'6" (35'6")	W10 x 60	W18 x 50
16	3' (4')	15' (12'6")	41' (38'6")	W12 x 65	W21 x 55
18	3' (4')	16'6" (14')	44'6" (42')	W18 x 76	W21 x 62
20	3' (4')	18' (15')	48' (45')	W18 x 86	W24 x 68
22	3' (4')	19'6" (16'6")	51'6" (48'6")	W18 x 97	W24 x 76
25	3' (4')	21'6" (18')	56'6" (53')	W14 x 109	W24 x 84
30	3' (4')	25'6" (21')	65'6" (61')	W14 x 145	W24 x 104
35	3' (4')	30'6" (25'6")	75'6" (70'6")	W21 x 182	W24 x 131
40	3' (4')	34'6" (28'6")	84'6" (78'6")	W14 x 233	W24 x 162

Exposure C 32 FEET WIDE INSTALLATIONS

Exposure B 32 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05)

Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
8	2' (3')	16'6" (12'6")	34'6" (30'6")	W14 x 48	W18 x 35
10	2' (3')	19' (14'6")	39' (34'6")	W10 x 60	W14 x 43
12	2' (3')	21'6" (16'6")	43'6" (38'6")	W12 x 65	W16 x 50
14	2' (3')	24'6" (18'6")	48'6" (42'6")	W18 x 76	W18 x 55
16	2' (3')	27' (20'6")	53' (46'6")	W18 x 86	W21 x 62
18	3' (4')	23' (19')	51' (47')	W21 x 101	W21 x 68
20	3' (4')	25' (20'6")	55' (50'6")	W24 x 104	W24 x 76
22	3' (4')	27' (22')	59' (54')	W21 x 122	W24 x 84
25	3' (4')	30' (24'6")	65' (59'6")	W24 x 146	W24 x 94
30	3' (4')	34'6" (28'6")	74'6" (68'6")	W21 x 182	W24 x 117
35	3' (4')	42' (34'6")	87' (79'6")	W14 x 257	W24 x 146
40	3' (4')	47'6" (38'6")	97'6" (88'6")	W14 x 311	W24 x 192

Column and Pier Requirements (Based on ASCE 7-05)

Display Height	Pier Dia	Pier Depth	Col. Len.	Unbraced Column	Braced Column *
8	2' (3')	12'6" (10'6")	30'6" (28'6")	W10 x 39	W12 x 30
10	2' (3')	14'6" (11'6")	34'6" (31'6")	W14 x 43	W14 x 34
12	2' (3')	17' (13')	39' (35')	W12 x 53	W16 x 40
14	2' (3')	19' (14'6")	43' (38'6")	W14 x 61	W21 x 44
16	2' (3')	21' (16')	47' (42')	W16 x 67	W18 x 50
18	3' (4')	18' (15')	46' (43')	W18 x 86	W18 x 55
20	3' (4')	19'6" (16')	49'6" (46')	W12 x 96	W21 x 62
22	3' (4')	21' (17'6")	53' (49'6")	W21 x 101	W21 x 68
25	3' (4')	23'6" (19'6")	58'6" (54'6")	W24 x 117	W24 x 68
30	3' (4')	27'6" (23')	67'6" (63')	W18 x 158	W24 x 94
35	3' (4')	33' (27'6")	78' (72'6")	W21 x 201	W24 x 117
40	3' (4')	37'6" (31')	87'6" (81')	W14 x 257	W24 x 131

Exposure C 36 FEET WIDE INSTALLATIONS

Exposure B 36 FEET WIDE INSTALLATIONS

Column and Pier Requirements (Based on ASCE 7-05)

Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
8	2' (3')	18'6" (14')	36'6" (32')	W12 x 53	W16 x 40
10	3' (4')	16'6" (13'6")	36'6" (33'6")	W14 x 61	W16 x 50
12	3' (4')	19' (15'6")	41' (37'6")	W14 x 74	W18 x 55
14	3' (4')	21' (17'6")	45' (41'6")	W18 x 86	W21 x 62
16	3' (4')	23'6" (19'6")	49'6" (45'6")	W18 x 97	W21 x 68
18	3' (4')	26' (21')	54' (49')	W21 x 101	W24 x 76
20	3' (4')	28'6" (23'6")	58'6" (53'6")	W24 x 117	W24 x 84
22	3' (4')	31' (25'6")	63' (57'6")	W24 x 146	W24 x 94
25	3' (4')	34'6" (28')	69'6" (63')	W24 x 162	W24 x 104
30	3' (4')	40' (33')	80' (73')	W24 x 207	W24 x 131
35	3' (4')	46' (37'6")	91' (82'6")	W18 x 283	W24 x 176
40	3' (4')	55' (44'6")	105' (94'6")	W14 x 370	W18 x 283

Column and Pier Requirements (Based on ASCE 7-05)

Display Height	Pier Dia	Pier Depth	Col Len	Unbraced Colum	Braced Column *
8	2' (3')	14'6" (11'6")	32'6" (29'6")	W12 x 40	W14 x 34
10	3' (4')	13' (11'6")	33' (31'6")	W12 x 53	W16 x 36
12	3' (4')	14'6" (12'6")	36'6" (34'6")	W14 x 61	W21 x 44
14	3' (4')	16'6" (14')	40'6" (38')	W16 x 67	W18 x 50
16	3' (4')	18'6" (15')	44'6" (41')	W18 x 76	W18 x 55
18	3' (4')	20' (16'6")	48' (44'6")	W18 x 86	W21 x 62
20	3' (4')	22'6" (18'6")	52'6" (48'6")	W21 x 101	W21 x 68
22	3' (4')	24' (20')	56' (52')	W21 x 111	W18 x 76
25	3' (4')	27' (22'6")	62' (57'6")	W24 x 131	W24 x 84
30	3' (4')	31'6" (26')	71'6" (66')	W18 x 175	W24 x 104
35	3' (4')	36'6" (30')	81'6" (75')	W14 x 233	W24 x 131
40	3' (4')	43'6" (35'6")	93'6" (85'6")	W14 x 283	W24 x 162

Chart Notes:

- * Requires that braces be placed every 10' interval from ground level that spans all columns. See detail on sheet 5.
- Wind loading figured at **Exposure "C" - Open terrain** with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.
- Wind loading figured at **Exposure "B" - Urban and suburban areas**, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.

Outdoor Scoreboard
Installation
4 Column
Multi-Section



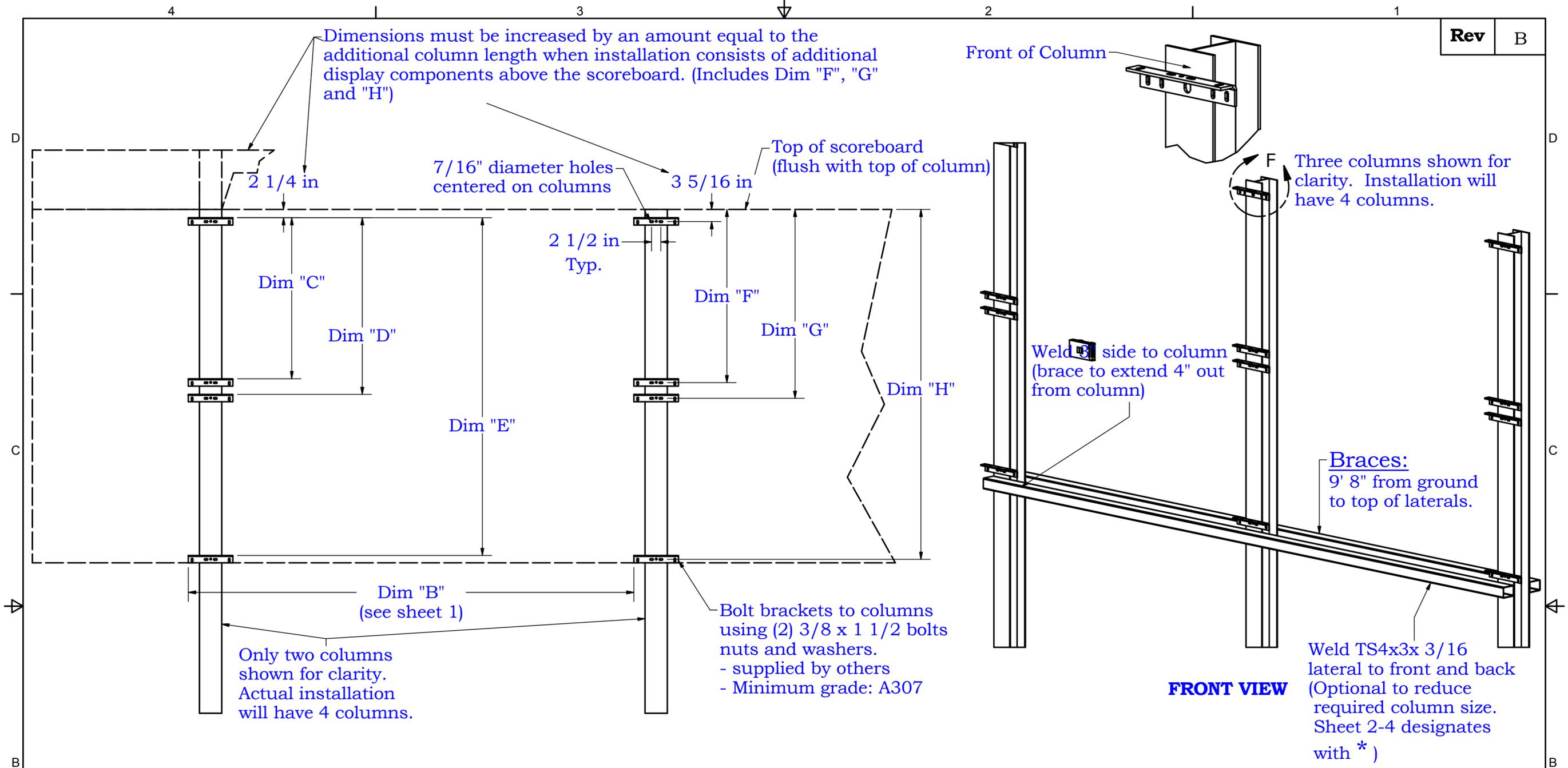
Nevco, Inc.
Greenville, Illinois 62246

Drawing No. 241-0365

Drawn **WHP** Date **12/14/18**

Sheet **4** of **7**

Dimensions must be increased by an amount equal to the additional column length when installation consists of additional display components above the scoreboard. (Includes Dim "F", "G" and "H")



	WELDING DIMENSIONS			BOLTING DIMENSIONS		
--	--------------------	--	--	--------------------	--	--

Model #	Dim "C"	Dim "D"	* Dim "E"	Dim "F"	Dim "G"	Dim "H"
1603, 1603PC	43 7/8"	48 1/8"	103 15/16"	47 5/32"	51 7/16"	107 1/4"
3620, 7620 3688, 7688	43 7/8"	48 1/8"	91 15/16"	47 5/32"	51 7/16"	95 1/4"
3604, 3616 3657, 7616	55 7/8"	60 1/8"	115 15/16"	59 5/32"	63 7/16"	119 1/4"

HARDWARE SUPPLIED BY OTHERS	
Description	Quantity
3/8 x 1 1/2 Bolt	32
3/8 Flat Washer	64
3/8 Lock Washer	32
3/8 Nut	32
3/8-16 eye bolts (see sheet 6)	2

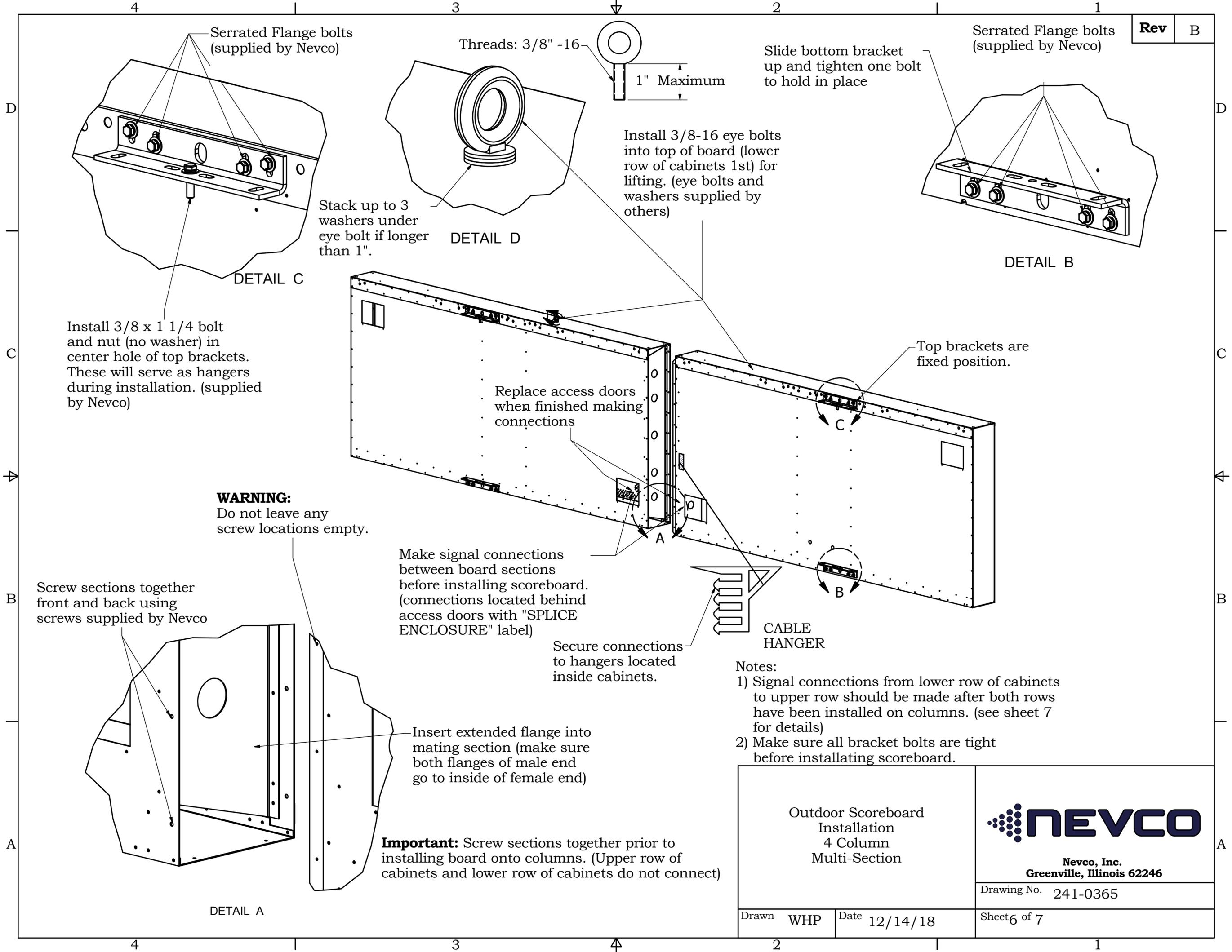
Required Hand Tools:

1. Phillips head screw driver/drill with phillips driver.
2. 9/16" wrench
3. Ratchet wrench and 9/16" socket
4. Level
5. Tape measure

Notes:

- 1) If welding brackets to columns, weld around full contact surface of brackets.
- 2) **FOR HIGH WIND AREAS:** For installations in wind zones higher than 150 mph, brackets must be welded to columns.
- 3) Dimensions above should be taken from the top of the SHORTEST column, marked and leveled across to other column.
- 4) Brackets shipped in separate container.

Outdoor Scoreboard Installation 4 Column Multi-Section		 NEVCO Nevco, Inc. Greenville, Illinois 62246
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- Notes:
- 1) Signal connections from lower row of cabinets to upper row should be made after both rows have been installed on columns. (see sheet 7 for details)
 - 2) Make sure all bracket bolts are tight before installing scoreboard.

Outdoor Scoreboard Installation 4 Column Multi-Section		 Nevco, Inc. Greenville, Illinois 62246		
				Drawing No. 241-0365
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Remove eye bolts from first row and install on second row

Spreader bar preferred for lifting (see installation instructions for more details)

Note: Details below show only two columns for clarity. Actual installation will have 4 columns.

Make power/signal connection between upper and lower rows of cabinets after board has been installed.
 - connections located behind access doors)
 - Pull cables from lower section into upper section (connections must be made and permanently located in upper section)

CABLE HANGER

Tighten all bracket bolts on first row before installing second row.

WARNING:
 Do not lift scoreboards with any other additional weight attached such as laterals or other structural components

Install top row and tighten all bracket bolts.

Secure connections to hangers located inside cabinets.

STEP ONE
 Install First Row

STEP TWO
 Install Second Row

Scoreboard

Bolt installed in top brackets of each row will serve as hanger.

Column

2 bolts required per bracket set.

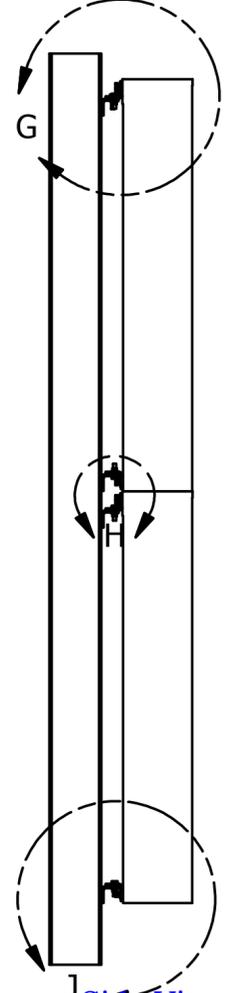
Hanging Detail

DETAIL G

DETAIL H

DETAIL J

Bolt brackets together using bolts, nuts, washers and lock washers supplied by Nevco. (3/8 x 1 3/4 bolts)



Outdoor Scoreboard
 Installation
 4 Column
 Multi-Section



Nevco, Inc.
 Greenville, Illinois 62246

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