



44'6" (42')

46' (44'6")

52'6" (51')

59'6" (57')

66'6" (64')

EXPOSURE C (See Note 3)

The Court of foce more of								
	Column and Foundation Requirements (Based on ASCE 7-10)							
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length				
8'	W8x21	2' (3')	9' (8')	26' (25')				
10'	W10x22	2' (3')	10' (8'6")	29' (27'6")				
12'	W10x26	2' (3')	11' (9'6")	32' (30'6")				
14'	W12x26	2' (3')	11'6" (10')	34'6" (33')				
16'	W12x30	2' (3')	12'6" (10'6")	37'6" (35'6")				
18'	W14x34	2' (3')	13'6" (11'6")	40'6" (38'6")				
20'	W16x36	2' (3')	15' (12')	44' (41')				
22'	W16x40	2' (3')	16'6" (13')	47'6" (44')				
25'	W16x50	3' (4')	14'6" (12')	48'6" (46')				
30'	W18x55	3' (4')	17' (14')	56' (53')				
35'	W21x62	3' (4')	19' (16')	63' (60')				
40'	W24x68	3' (4')	21'6" (18')	70'6" (67')				

20 FEET WIDE INSTALLATIONS (2 COLUMNS)

22

25

30

35

40"

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W8x18	2' (3')	8' (7')	25' (24')	
10"	W8x18	2' (3')	9' (7'6")	28' (26'6")	
12'	W10x22	2' (3')	9'6" (8')	30'6" (29')	
14'	W14x22	2' (3')	10' (9')	33 (32)	
16'	W10x26	2' (3')	11' (9'6")	36' (34'6")	
18"	W12x26	2' (3')	11'6" (10')	38'6" (37')	
20'	W12x30	2' (3')	12' (10'6")	41' (396")	

136" (11')

12 (106")

136" (12)

156" (13')

176" (15)

2 (3)

3' (4')

3' (4')

3' (4')

3' (4')

W14x34

W16x36

W21x44

W18x55

W21x62

EXPOSURE B (See Note 4)

120 MPH WIND ZONES

Column and Foundation Requirements (Based on ASCE 7-10)							
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length			
8'	W10x22	2 (3)	10' (9')	27' (26')			
10'	W10x26	2 (3)	11' (9'6")	30' (28'6")			
12'	W12x30	2 (3)	12' (10'6")	33' (31'6")			
14'	W14x34	2' (3')	13'6" (11')	36'6" (34')			
16'	W18x35	2' (3')	15' (12')	40' (37')			
18'	W16x40	2' (3')	16' (12'6")	43' (39'6")			
20'	W14x43	2' (3')	17'6" (13'6")	46'6" (42'6")			
22'	W16x50	2' (3')	19'6" (15'6")	50'6" (46'6")			
25'	W18x55	3' (4')	17' (14')	51' (48')			
30'	W21x62	3' (4')	20' (16'6")	59' (55'6")			
35'	W24x76	3' (4')	22'6" (19')	66'6" (63')			
40'	W24x84	3' (4')	256" (21'6")	74'6" (70'6")			

20 FEET WIDE INSTALLATIONS (2 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)						
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length		
8'	W8x18	2' (3')	9' (7'6")	26' (24'6")		
10"	W10x22	2' (3')	9'6" (8'6")	28'6" (27'6")		
12'	W10x26	2' (3')	10'6" (9')	31'6" (30')		
14'	W12x26	2' (3')	11'6" (9'6")	346" (326")		
16'	W12x30	2' (3')	12' (10'6")	37" (35'6")		
18'	W14x30	2' (3')	13' (11')	40' (38')		
20'	W14x34	2' (3')	14' (11'6")	43' (40'6")		
22'	W16x40	2' (3')	15'6" (12'6")	46'6" (43'6")		
25	W21x44	3' (4')	13'6" (12')	47'6" (46')		
30'	W18x55	3' (4')	16' (13'6")	55' (52'6")		
35'	W21x62	3' (4')	18'6" (15'6")	62'6" (59'6")		
40'	W24x68	3' (4')	20'6" (17'6")	69'6" (66'6")		

130 MPH WIND ZONES

Column and Foundation Requirements (Based on ASCE 7-10)						
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length		
8'	W10x26	2' (3')	11' (9'6")	28' (26'6")		
10'	W12x26	2' (3')	12' (10')	31' (29')		
12'	W14x30	2' (3')	13'6" (11')	34'6" (32')		
14'	W14x34	2' (3')	15' (12')	38' (35')		
16'	W16x40	2' (3')	16'6" (12'6")	41'6" (37'6")		
18'	W21x44	2' (3')	18' (14')	45' (41')		
20'	W16x50	2' (3')	19'6" (15')	48'6" (44')		
22'	W18x55	2' (3')	22' (17')	53' (48')		
25'	W21x62	3' (4')	186" (156")	52'6" (49'6")		
30'	W24x68	3' (4')	22' (18'6")	61' (57'6")		
35'	W24x84	3' (4')	25' (21')	69' (65')		
40'	W21x101	3' (4')	28' (23'6")	77' (72'6")		

20 FEET WIDE INSTALLATIONS (2 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)						
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length		
8'	W8x21	2' (3')	9'6" (8')	26'6" (25')		
10"	W10x22	2 (3)	10' (9')	29' (28')		
12'	W12x26	2' (3')	11' (9'6")	32' (30'6")		
14'	W12x30	2' (3')	12' (10'6")	35' (33'6")		
16'	W14x30	2' (3')	13' (11')	38' (36')		
18'	W14x34	2' (3')	14' (11'6")	41' (38'6")		
20'	W16x36	2' (3')	156" (12')	44'6" (41')		
22'	W14x43	2' (3')	17'6" (13'6")	48'6" (44'6")		
25	W16x50	3' (4')	15' (12'6")	49' (46'6")		
30'	W21x55	3' (4')	176" (15')	56'6" (54')		
35	W21x68	3' (4')	20' (17')	64' (61')		
40'	W24x76	3' (4')	23' (19')	72' (68')		

Chart Notes:

1. If the display height is between chart values shown above, use the next highest value.

2. * It is required that 4x3x3/16 steel tubing be welded to back of columns 10' from the ground and every 10' to the top of the column for bracing. (See detail on 241-0415).

- 3. 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.
- 4. 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
Pier Installation
2/3 Column With
Laterals

#INEVCO

Nevco, Inc. Greenville, Illinois 62246

Drawing No. 241-0407

Drawn KAB

12/14/2018

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4

3

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2

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1

150 MPH WIND ZONES Rev A **EXPOSURE C (See Note 3) EXPOSURE B (See Note 4)** Column and Foundation Requirements (Based on ASCE 7-10) Column and Foundation Requirements (Based on ASCE 7-10) Braced Column* Pier Dia. Column Length Display Height Pier Depth Pier Dia. Display Height Braced Column* Pier Depth Column Length 12' (10'6") 29' (27'6") 2'(3') W12x26 2 (3) 10'6" (9') 276" (26') W10x22 8' 2' (3') W14x30 10' 14' (11'6") 33' (30'6") W12x26 10' 2' (3') 11'6" (10') 306" (29") 12" 2 (3) 16' (12'6") 37' (33'6") W16x36 12" W12x30 2 (3) 126" (106") 33'6" (31'6") 14' 2 (3) 18' (14') 41' (37') 14' W14x34 W16x40 2 (3) 37' (34'6") 14" (1116") 20 FEET WIDE 2 (3) 16' 16 W16x50 196" (15) 44'6" (40') W16x36 2 (3) 156" (12') 406" (37") **INSTALLATIONS** 486" (436") 2 (3) 2 (3) 21'6" (16'6") 18' 18' W18x50 17' (13') 44' (40') W16x40 (2 COLUMNS) 2 (3) 236" (18') 526" (47) 186" (146") 20' W21x55 20' 2 (3) 476" (436") W21x44 22" W21x62 2 (3) 266" (20") 576" (51') 22 2 (3) 21' (16') 52 (47) W18x50 25 W24x68 3' (4') 226" (186") 566" (526") 25 W21x55 52' (49') 3' (4') 18' (15') 3' (4') 266" (22') 30' W24x84 656" (61") 30, 3' (4') 21' (176") 60' (56'6") W21x68 35 3' (4') 74' (69') 35 24' (20') W24x103 30' (25') W24x84 3' (4') 68' (64') 40' 3' (4') 34' (28') 83' (77') 40' W24x94 3' (4') 276" (23') 766" (72) W24x117 180 MPH WIND ZONES Column and Foundation Requirements (Based on ASCE 7-10) Column and Foundation Requirements (Based on ASCE 7-10) Braced Column* Display Height **Braced Column*** Pier Dia. Pier Depth Column Length Display Height Pier Dia. Pier Depth Column Length 12' (10') 8 W12x26 2 (3) 29' (27') W14x34 2 (3) 15 (12) 32' (29') 2 (3) 13'6" (11') 10' W14x30 326" (30") 2 (3) 176" (136") 366" (326") 10' W16x40 12" 2 (3) W16x36 2 (3) 16' (12'6") 37' (33'6") 206" (156") 416" (366") 12" W14x48 14' 2 (3) 176" (136") 40'6" (36'6") 2 (3) 23' (17'6") W16x40 14' W18x55 46' (40'6") 20 FEET WIDE 16" 2 (3) 2 (3) W14x48 446" (40') 16 W21x55 25 (19) 50' (44') 196" (15) **INSTALLATIONS** 18' 216" (166") 2'(3') 2 (3) W18x50 486" (436") 18' 276" (21') 54'6" (48') W21x62 (2 COLUMNS) 20' W21x55 2 (3) 23'6" (18') 526" (47') W24x68 59' (52') 20' 2 (3) 30' (23') 22' W21x62 2 (3) 266" (206") 576" (516") 22" 2 (3) W24x76 34' (25'6") 65' (56'6") 25 W24x68 566" (53') 3' (4') 22'6" (19') 25 3' (4') 28'6" (23'6") 62'6" (57'6") W24x94 30' W24x84 3' (4') 266" (22') 656" (61") 3' (4') 30' 336" (276") 72'6" (66'6") W24x104 35 W24x104 3' (4') 30'6" (25'6") 74'6" (69'6") 35 3' (4') W24x131 826' (76') 38'6" (32') W24x131 40' 3' (4') 346" (29') 836" (78") 40' W24x162 3' (4') 43'6" (36') 926" (85) В NEVCO Outdoor Scoreboard Pier Installation 2/3 Column With Nevco, Inc. Laterals Greenville, Illinois 62246

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12/14/2018

Drawn

KAB

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Drawing No.

241-0407

186" (146")

20" (15'6")

17' (14'6")

20'6" (17'6")

23'6" (20')

266" (226")

Pier Depth

9' (8')

10' (8'6")

11' (9'6")

11'6" (10')

12'6" (10'6")

136" (116")

15' (12')

12'6" (11')

14' (12')

16" (13'6")

19' (16')

21'6" (18')

Pier Depth

10' (9')

10'6" (9')

11' (9'6")

11'6" (10')

12" (10'6")

126" (106")

13" (11'6")

15'6" (13')

18' (15')

20'6" (17')

24' (20')

47'6" (43'6")

51" (46"6")

51' (48'6")

596" (566")

676" (64")

756" (716")

Column Length

26' (25')

29" (27"6")

32" (30'6")

34'6" (33')

376" (356") 40'6" (38'6")

44" (41)

43'6" (42')

48' (46')

55' (52'6")

63' (60')

70'6" (67')

Column Length

28' (27')

296" (28")

31' (29'6")

326" (31")

34" (32'6") 35'6" (33'6")

42" (40'6")

49'6" (47')

57' (5**4')**

64'6" (61')

73' (69')

INSTALLATI (2 COLUMNS)

/IDE	
IONS	

32 FEET WIDE **INSTALLATIONS** (3 COLUMNS)

EXPOSUR	EB	(See	Note	4)

Rev

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8,	W8x 18	2'(3')	8'6" (7'6")	256" (24'6")	
10"	W8x21	2'(3')	96"(8)	28'6" (27')	
12'	W10x22	2'(3')	10' (8'6")	31' (29'6")	
14	W10x26	2'(3')	11' (9'6")	34' (32'6")	
16'	W12x26	2'(3')	11'6" (10')	36'6" (35')	
18'	W12x30	2'(3')	12'6" (10'6")	396" (37'6")	
20"	W14x34	2'(3')	13'6" (11')	42'6" (40')	
22'	W18x35	2'(3')	14'6" (11'6")	456" (42'6")	
25	W16x40	3' (4')	13' (11'6")	47' (45'6")	
30'	W18x50	3' (4')	15' (13')	54' (52')	
35	W21x55	3' (4')	17'6" (14'6")	616" (58'6")	
40'	W21x68	3' (4')	19'6" (16'6")	686" (65'6")	

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W8x21	2' (3')	9' (7'6")	26' (24'6")	
10"	W10x22	2' (3')	10' (8'6")	29 (276")	
12'	W10x26	2' (3')	10'6" (9')	31'6" (30')	
14	W12x26	2' (3')	11'6" (10')	346" (33')	
16'	W12x30	2' (3')	12'6" (10'6")	376" (35'6")	
18	W14x34	2' (3')	13'6" (11')	40'6" (38')	
20'	W18x35	2' (3')	14'6" (12')	43'6" (41')	
22	W16x40	2' (3')	16' (12'6")	47' (43'6")	
25	W21x44	3' (4')	14' (12')	48' (46')	
30'	W18x55	3' (4')	16'6" (14')	55'6" (53')	
35	W21x62	3' (4')	19' (16')	63' (60')	
40'	W24x68	3' (4')	21'6" (18')	706" (67')	

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8,	W10x17	2' (3')	8' (7')	25' (24')	
10"	W8x 18	2' (3')	8'6" (7'6")	276" (26'6")	
12'	W8x21	2' (3')	96"(8)	306" (29')	
14	W10x22	2' (3')	10' (8'6")	33' (31'6")	
16'	W10x26	2' (3')	10'6" (9'6")	356" (34'6")	
18	W12x26	2' (3')	11'6" (10')	386" (37")	
20'	W12x30	2' (3')	12' (10'6")	41' (39'6")	
22'	W14x34	3' (4')	11' (10')	42'(41')	
25	W18x35	3' (4')	11'6" (10'6")	456" (44'6")	
30'	W21x44	3' (4')	13' (11'6")	52' (50'6")	
35	W18x55	3' (4')	15'6" (13')	59'6" (57')	
40'	W21x62	3' (4')	17'6" (15')	666" (64")	

	Column and Found	ation Requiremen	nts (Based on ASCE 7-	10)
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
9'	W8x21	2' (3')	9' (7'6")	27 (256")
10"	W8x21	2' (3')	9' (8')	28' (27')
11"	W10x22	2' (3')	9'6" (8'6")	296" (28'6")
12'	W10x22	2' (3')	10' (8'6")	31' (29'6")
13'	W14x22	2' (3')	10'6" (9')	32'6" (31')
14	W10x26	2' (3')	10'6" (9'6")	336" (32'6")
15	W12x26	2' (3')	11' (9'6")	35' (33'6")
20"	W14x34	3' (4')	11' (10')	40' (39')
25	W16x40	3' (4')	12'6" (11')	46'6" (45')
30'	W16x50	3' (4')	14'6" (12'6")	536" (51'6")
35	W21x55	3' (4')	16'6" (14')	60'6" (58')
40'	W21x68	3' (4')	19'6" (16'6")	686" (65'6")

Chart Notes:

20'

22

25'

30'

35'

40'

Display Height

8'

10"

12'

14

16'

18'

20'

22

25'

30'

35'

40'

Display Height

9'

10"

11'

12

13'

14

15' 20'

25'

30'

35'

40'

W21x44

W 16x 50

W18x55

W21x68

W24x76

W24x94

Braced Column*

W8x21

W 10x 22

W10x26

W12x26

W12x30

W14x34

W 16x 36

W 16x 40

W21x44

W18x55

W21x62

W24x68

Braced Column*

W 10x 22

W10x26

W 10x 26

W12x26

W12x30

W12x30

W 16x 40

W18x50

W21x55

W21x68

W24x84

2'(3')

2' (3')

3' (4')

3' (4')

3' (4')

3' (4')

Pier Dia.

2'(3')

2'(3')

2' (3')

2' (3')

2' (3')

2'(3')

2'(3')

3' (4')

3' (4')

3' (4')

3' (4')

3' (4')

Pier Dia.

2' (3')

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2'(3')

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3' (4')

3' (4')

3' (4')

3' (4')

Column and Foundation Requirements (Based on ASCE 7-10)

Column and Foundation Requirements (Based on ASCE 7-10)

1. If the display height is between chart values shown above, use the next highest value.

2. * It is required that 4x3x3/16 steel tubing be welded to back of columns 10' from the ground and every 10' to the top of the column for bracing. (See detail on 241-0415).

- 3. 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.
- 4. 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 Pier Installation 2/3 Column With Laterals

KAB



Nevco, Inc. Greenville, Illinois 62246

Drawing No. 241-0407 Drawn Sheet of

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EXPOSURE C (See Note 3)

	Column and Found	ation Requireme	nts (Based on ASCE 7-	10)
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
8'	W10x26	2'(3')	11' (9'6")	28 (2667)
10"	W12x26	2'(3')	12' (10')	31'(29')
12'	W14x30	2'(3')	13'6" (11')	346" (32')
14'	W18x35	3'(4')	12' (10'6")	35 (336")
16'	W16x40	3'(4')	13' (11'6")	38 (366")
18'	W21x44	3'(4')	14' (12')	41'(39')
20'	W16x50	3'(4')	15'6" (13')	446" (42')
22'	W18x55	3'(4')	16'6" (14')	476" (45')
25'	W21x62	3'(4')	19' (16')	53'(50')
30'	W24x68	3'(4')	22' (18'6")	61' (57'6")
35'	W24x84	3'(4')	25'6" (21')	696" (65')
40'	W21x101	3'(4')	28'6" (24')	776" (73')

24 FEET WIDE
INSTALLATIONS
(2 COLUMNS)

	Column and Found	ation Requireme	nts (Based on ASCE 7-1	10)
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
8'	W8x21	2'(3')	9'6" (8')	266" (25')
10"	W10x22	2'(3')	10'6" (9')	296" (28')
12"	W12x26	2'(3')	11' (9'6")	32 (306")
14'	W12x30	3'(4')	10'6" (9'6")	33'6" (32'6")
16'	W14x30	3'(4')	11' (10')	36'(35')
18'	W14x34	3'(4')	11'6" (10'6")	38'6" (37'6")
20"	W16x40	3'(4')	12' (11')	41'(40')
22	W14x43	3'(4')	13' (11'6")	44 (4267)
25'	W18x50	3'(4')	15'6" (13')	496" (47')
30'	W21x55	3'(4')	18' (15')	57'(54')
35'	W21x68	3'(4')	20'6" (17')	646" (61')
40'	W24x76	3'(4')	23' (19'6")	72 (686")

EXPOSURE B (See Note 4)

	Column and Founda	ation Requireme	nts (Based on ASCE 7-	10)
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
8,	W12x26	2'(3')	11'6" (10')	286" (27')
10'	W12x30	2'(3')	13' (11')	32'(30')
12'	W14x34	2'(3')	14'6" (11'6")	35'6" (32'6")
14'	W16x40	3'(4')	12'6" (11')	356" (34')
16'	W21x44	3'(4')	14' (12')	39'(37')
18'	W16x50	3'(4')	15'6" (13')	426" (40")
20'	W18x55	3'(4')	17' (14')	46'(43')
22'	W21x55	3'(4')	18 (15')	49'(46')
25'	W21x62	3'(4')	20' (17')	54'(51')
30'	W24x76	3'(4')	24'6" (20'6")	63'6" (59'6")
35'	W24x94	3'(4')	28' (23'6")	72 (676")
40'	W24x104	3'(4')	31'6" (26'6")	80'6" (75'6")

28 FEET WIDE
INSTALLATIONS
(2 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)				
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
8'	W10x22	2'(3')	10' (8'6")	27 (256")
10'	W10x26	2'(3')	11' (9'6")	30 (286")
12'	W12x26	2'(3')	12' (10')	33'(31')
14'	W14x30	3'(4')	11' (10')	34'(33')
16'	W14x34	3'(4')	11'6" (10'6")	36'6" (35'6")
18'	W16x40	3'(4')	12'6" (11')	396" (38')
20'	W14x43	3'(4')	13'6" (11'6")	42'6" (40'6")
22'	W14x48	3'(4')	14'6" (12')	456" (43')
25'	W18x55	3'(4')	16' (13'6")	50' (47'6")
30"	W21x62	3'(4')	19'6" (16'6")	58'6" (55'6")
35'	W24x76	3'(4')	22'6" (19')	666" (63')
40'	W24x94	3'(4')	25'6" (21'6")	74'6" (70'6")

Column and Foundation Requirements (Based on ASCE 7-10)				
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
8'	W10x22	2'(3')	10' (8'6")	27 (2567)
10"	W10x26	2'(3')	11' (9'6")	30 (2867)
12'	W10x30	2'(3')	12' (10'6")	33 (316")
14'	W14x30	3'(4')	11' (10')	34'(33')
16'	W14x34	3'(4')	11'6" (10'6")	36'6" (35'6")
18'	W16x40	3'(4')	12'6" (11')	396" (38')
20'	W14x43	3'(4')	13'6" (12')	42'6" (41')
22'	W16x50	3'(4')	14'6" (12'6")	45'6" (43'6")
25'	W18x55	3'(4')	16'6" (13'6")	50'6" (47'6")
30'	W21x62	3'(4')	19' (16')	58'(55')
35'	W24x76	3'(4')	22'6" (19')	666" (63')
40'	W24x84	3'(4')	25'6" (21')	746" (70')

32 FEET WIDE
INSTALLATIONS
(3 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)				
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
8'	W8x 18	2'(3')	9" (7"6")	26 (246")
10"	W10x22	2'(3')	9'6" (8'6")	28'6" (27'6")
12'	W14x22	2'(3')	10'6" (9')	316"(30')
14'	W12x26	3'(4')	9'6" (8'6")	32'6" (31'6")
16'	W12x30	3'(4')	10' (9')	35'(34')
18'	W14x30	3'(4')	11' (10')	38'(37')
20"	W14x34	3'(4')	11'6" (10'6")	40'6" (39'6")
22'	W16x36	3'(4')	12' (11')	43'(42')
25'	W14x43	3'(4')	13' (11'6")	47' (45'6")
30"	W18x50	3'(4')	15'6" (13')	546" (52')
35'	W21x62	3'(4')	18'6" (15'6")	62'6" (59'6")
40'	W24x68	3'(4')	20'6" (17'6")	69'6" (66'6")

Т			ts (Based on ASCE 7-	_
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
9'	W10x26	2'(3')	11'6" (9'6")	29'6" (27'6")
10"	W12x26	2'(3')	12' (10')	31'(29')
11'	W12x30	2'(3')	12'6" (10'6")	32'6" (30'6")
12'	W14x30	3'(4')	11' (10')	32'(31')
13'	W14x34	3'(4')	11'6" (10')	336" (32')
14'	W14x34	3'(4')	11'6" (10'6")	34'6" (33'6")
15'	W16x36	3'(4')	12' (11')	36'(35')
20'	W16x50	3'(4')	15' (13')	44'(42')
25'	W21x55	3'(4')	18' (15')	52'(49')
30'	W21x68	3'(4')	21' (17'6")	60 (566")
35'	W24x76	3'(4')	24' (20')	68'(64')
40'	W21x101	3'(4')	28'6" (23'6")	77'6" (72'6")

36 FEET WIDE
INSTALLATIONS
(3 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)				
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
9'	W10x22	2'(3')	10' (8'6")	28 (266")
10'	W10x22	2'(3')	10' (9')	29'(28')
11'	W10x26	2'(3')	10'6" (9')	30'6" (29')
12'	W10x26	3'(4')	9'6" (8'6")	30'6" (29'6")
13'	W12x26	3'(4')	10' (9')	32'(31')
14'	W12x26	3'(4')	10' (9')	33'(32')
15'	W12x30	3'(4')	10'6" (9'6")	34'6" (33'6")
20'	W16x36	3'(4')	12' (11')	41'(40')
25'	W16x50	3'(4')	14'6" (12'6")	48'6" (46'6")
30'	W21x55	3'(4')	17" (14'6")	56 (536")
35'	W21x68	3'(4')	19'6" (16'6")	63'6" (60'6")
40'	W24x76	3'(4')	23' (19'6")	72 (686")

Chart Notes:

- 1. If the display height is between chart values shown above, use the next highest value.
- 2. * It is required that 4x3x3/16 steel tubing be welded to back of columns 10' from the ground and every 10' to the top of the column for bracing. (See detail on sheet 7)
- 3. 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.
- 4. 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
Pier Installation
2/3 Column With
Laterals



Nevco, Inc. Greenville, Illinois 62246

Drawing No. 241-0407

Drawn KAB Date 12/14/2018 Sheet of 6 9

 Δ 2

Rev	A
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Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W12x26	2'(3')	11'6" (10')	286"(27')	
10"	W12x30	2'(3')	13' (11')	32'(30')	
12'	W14x34	2'(3')	14'6" (11'6")	35'6" (32'6")	
14'	W16x40	3'(4')	13' (11'6")	36 (346")	
16'	W21x44	3'(4')	14'6" (12')	396" (37')	
18'	W16x50	3'(4')	15'6" (13')	426"(40')	
20'	W18x55	3'(4')	17' (14')	46'(43')	
22'	W21x55	3'(4')	18' (15')	49'(46')	
25'	W21x68	3'(4')	21' (17'6")	55' (51'6")	
30'	W24x76	3'(4')	24'6" (20'6")	63'6" (59'6")	
35'	W24x94	3'(4')	28' (23'6")	72' (67'6")	
40'	W24x104	3'(4')	32' (26'6")	81' (75'6")	

EXPOSURE C (See Note 3)

24 FEET WIDE
INSTALLATIONS
(2 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W10x22	2'(3')	10' (8'6")	27 (2567)	
10"	W10x26	2'(3')	11' (9'6")	30 (286")	
12"	W12x26	2'(3')	12' (10')	33'(31')	
14"	W14x30	3'(4')	11' (10')	34'(33')	
16'	W14x34	3'(4')	11'6" (10'6")	36'6" (35'6")	
18'	W16x40	3'(4')	12'6" (11')	396" (38')	
20"	W14x43	3'(4')	13'6" (11'6")	42'6" (40'6")	
22'	W14x48	3'(4')	14'6" (12'6")	45'6" (43'6")	
25'	W18x55	3'(4')	17' (14')	51'(48')	
30'	W21x62	3'(4')	19'6" (16'6")	58'6" (55'6")	
35'	W24x76	3'(4')	22'6" (19')	666" (63')	
40'	W24x94	3'(4')	25'6" (21'6")	74'6" (70'6")	

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W12x26	2'(3')	12' (10'6")	29 (2767)	
10"	W14x34	2'(3')	14' (11'6")	33 (30'6")	
12'	W16x36	2'(3')	16' (12'6")	37 (336")	
14'	W14x43	3'(4')	14' (12')	37'(35')	
16'	W16x50	3'(4')	15'6" (13')	406" (38')	
18'	W18x55	3'(4')	17' (14'6")	44 (4167)	
20'	W21x55	3'(4')	18'6" (15'6")	47'6" (44'6")	
22'	W21x62	3'(4')	20' (17')	51'(48')	
25'	W24x64	3'(4')	22'6" (18'6")	56'6" (52'6")	
30'	W24x94	3'(4')	27'6" (22'6")	66'6" (61'6")	
35'	W24x104	3'(4')	31'6" (26')	756"(70')	
40'	W24x131	3'(4')	35'6" (29')	846" (78')	

28 FEET WIDE
INSTALLATIONS
(2 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W14x22	2'(3')	10'6" (9')	276" (26')	
10"	W12x26	2'(3')	11'6" (10')	30'6" (29')	
12'	W12x30	2'(3')	12'6" (11')	336" (32')	
14'	W14x34	3'(4')	11'6" (10'6")	34'6" (33'6")	
16'	W16x36	3'(4')	12'6" (11')	376" (36')	
18'	W14x43	3'(4')	13'6" (12')	40'6" (39')	
20'	W16x50	3'(4')	15' (12'6")	44 (4167)	
22'	W18x50	3'(4')	16' (13'6")	47' (44'6")	
25'	W21x55	3'(4')	18' (15')	52'(49')	
30'	W24x68	3'(4')	22' (18')	61'(57')	
35'	W24x84	3'(4')	25' (21')	69'(65')	
40'	W21x101	3'(4')	28'6" (23'6")	77'6" (72'6")	

	***ZIA 10 1	~ (.,	000 (20)	0.00 (1.07			
	Column and Found	ation Requiremer	nts (Based on ASCE 7-1	10)			
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length			
8'	W10x26	2'(3')	11' (9'6")	28 (266")			
10'	W12x26	2'(3')	12' (10')	31'(29')			
12'	W12x30	2'(3')	13' (11')	34'(32')			
14'	W14x34	3'(4')	11'6" (10'6")	34'6" (33'6")			
16'	W16x40	3'(4')	12'6" (11')	376" (36')			
18'	W21x44	3'(4')	14' (12')	41'(39')			
20'	W16x50	3'(4')	15' (12'6 ")	44 (416")			
22'	W18x50	3'(4')	16' (13'6")	47 (446")			
25'	W21x55	3'(4')	18' (15')	52'(49')			
30'	W21x68	3'(4')	21' (17'6")	60 (566")			
35'	W24x84	3'(4')	25' (21')	69'(65')			
40'	W21x101	3'(4')	28' (23'6")	77" (72'6")			

32 FEET WIDE
INSTALLATIONS
(3 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)						
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length		
8'	W8x21	2'(3')	9'6" (8')	266" (25')		
10"	W10x22	2'(3')	10' (9')	29'(28')		
12'	W10x26	2'(3')	11' (9'6")	32 (306")		
14'	W12x26	3'(4')	10' (9')	33'(32')		
16'	W14x30	3'(4')	11' (9'6")	36 (346")		
18'	W14x34	3'(4')	11'6" (10'6")	38'6" (37'6")		
20'	W16x36	3'(4')	12' (11')	41'(40')		
22'	W16x40	3'(4')	13' (11'6")	44 (426")		
25'	W16x50	3'(4')	14'6" (12')	486" (46')		
30"	W21x55	3'(4')	17' (14')	56'(53')		
35'	W21x68	3'(4')	20' (17')	64'(61')		
40'	W24x76	3'(4')	23' (19')	72'(68')		

**ZIX 10 1	2 (7)	20 (250)	11 (120)		
Column and Foundation Requirements (Based on ASCE 7-10)					
Braced Column*	Pier Dia.	Pier Depth	Column Length		
W12x26	2'(3')	12' (10'6")	30 (286")		
W12x30	2'(3')	12'6" (10'6")	31'6" (29'6")		
W14x30	2'(3')	13'6" (11')	336" (31')		
W14x34	3'(4')	11'6" (10'6")	32'6" (31'6")		
W18x35	3'(4')	12' (11')	34'(33')		
W16x36	3'(4')	12'6" (11')	356" (34")		
W16x40	3'(4')	13' (11'6")	37 (356")		
W18x55	3'(4')	17' (14')	46'(43')		
W21x62	3'(4')	20' (17')	54'(51')		
W24x76	3'(4')	23'6" (19'6")	62'6" (58'6")		
W24x94	3'(4')	26'6" (22')	706" (66')		
W24x104	3'(4')	31'6" (26')	806"(75')		
	Column and Founda Braced Column* W12x26 W12x30 W14x30 W14x34 W18x35 W16x36 W16x40 W18x55 W21x62 W24x76 W24x94	Column and Foundation Requirements Braced Column* Pier Dia. W12x26 2'(3') W12x30 2'(3') W14x30 2'(3') W14x34 3'(4') W18x35 3'(4') W16x36 3'(4') W16x40 3'(4') W18x55 3'(4') W21x62 3'(4') W24x76 3'(4') W24x94 3'(4')	Column and Foundation Requirements (Based on ASCE 7-Braced Column* Pier Dia. Pier Depth W12x26 2'(3') 12'(10'6") W12x30 2'(3') 12'6" (10'6") W14x30 2'(3') 13'6" (11') W14x34 3'(4') 11'6" (10'6") W18x35 3'(4') 12' (11') W16x36 3'(4') 12'6" (11') W16x40 3'(4') 13' (11'6") W18x55 3'(4') 13' (11'6") W18x55 3'(4') 20' (17') W21x62 3'(4') 23'6" (19'6") W24x94 3'(4') 26'6" (22')		

36 FEET WIDE **INSTALLATIONS** (3 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
9'	W10x22	2'(3')	10'6" (9')	286"(27")	
10'	W10x26	2'(3')	11' (9'6")	30 (286")	
11'	W12x26	2'(3')	11'6" (9'6")	31'6" (29'6")	
12'	W12x26	3'(4')	10' (9')	31'(30')	
13'	W12x30	3'(4')	10'6" (9'6")	32'6" (31'6")	
14'	W12x30	3'(4')	11' (9'6")	34 (326")	
15'	W14x34	3'(4')	11' (10')	35'(34')	
20'	W14x43	3'(4')	13'6" (11'6")	42'6" (40'6")	
25'	W18x55	3'(4')	16' (13'6")	50' (47'6")	
30'	W21x62	3'(4')	19' (16')	58'(55')	
35'	W24x68	3'(4')	21'6" (18')	656" (62')	
40'	W24x94	3'(4')	25'6" (21'6")	74'6" (70'6")	

Chart Notes:

- 1. If the display height is between chart values shown above, use the next highest value.
- 2. * It is required that 4x3x3/16 steel tubing be welded to back of columns 10' from the ground and every 10' to the top of the column for bracing. (See detail on 241-0415).
- 3. 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.
- 4. 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 Pier Installation 2/3 Column With Laterals



Nevco, Inc. Greenville, Illinois 62246

241-0407

Drawing No.

Drawn Sheet of 12/14/2018 KAB 7 9

EXPOSURE C (See Note 3)

150 MPH WIND ZONES

EXPOSURE B (See Note 4)

Rev

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W12x30	2'(3')	13'6" (11')	306"(28)	
10'	W18x35	2'(3')	15'6" (12')	346" (31")	
12'	W16x40	2'(3')	17'6" (13'6")	386" (34'6")	
14'	W16x50	2'(3')	20' (15'6")	43 (386")	
16'	W18x55	2'(3')	226"(17')	476" (42)	
18'	W21x55	2'(3')	24'6" (18'6")	516" (45'6")	
20'	W21x62	2'(3')	26'6" (20'6")	55'6" (49'6")	
22'	W21x68	3'(4')	22' (18')	53' (49')	
25'	W24x76	3'(4')	256" (21')	596" (55)	
30'	W21x101	3'(4')	29'6" (24'6")	686" (63'6")	
35'	W24x117	3'(4')	34' (28')	78' (72')	
40'	W24x146	3'(4')	386" (32')	876" (81')	

24 FEET WIDE
INSTALLATIONS
(2 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W10x26	2'(3')	11' (9'6")	28 (266")	
10'	W12x30	2'(3')	12' (10'6")	31' (29'6")	
12'	W1 4x34	2'(3')	14 (11'6")	35 (326")	
14'	W16x36	2'(3')	16' (12')	39' (35')	
16'	W16x40	2'(3')	17'6" (13'6")	426" (38'6")	
18'	W1 4x48	2'(3')	19' (15')	46' (42')	
20'	W18x50	2'(3')	21' (16')	50' (45')	
22'	W18x55	3'(4')	17'6" (14'6")	48'6" (45'6")	
25'	W21x62	3'(4')	20' (17')	54' (51')	
30'	W24x76	3'(4')	23'6" (19'6")	626" (58'6")	
35'	W24x94	3'(4')	27'6" (226")	716" (66'6")	
40'	W24x104	3'(4')	31' (25'6")	80' (74'6")	

	Column and Foundation Requirements (Based on ASCE 7-10)				
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W1 4x34	2'(3')	14'6" (11'6")	316" (28'6")	
10'	W16x40	2'(3')	17' (13')	36' (32')	
12"	W21x44	2'(3')	19'6" (15')	40'6" (36')	
14'	W18x50	2'(3')	22' (17')	45' (40')	
16'	W21x55	2'(3')	25' (19')	50' (44')	
18'	W21x62	2'(3')	27' (20'6")	54 (47'6")	
20'	W21x68	2'(3')	29'6" (22'6")	586" (51'6")	
22'	W18x76	3'(4')	246" (20")	55'6" (51')	
25'	W24x84	3'(4')	27' (22'6")	61' (56'6")	
30'	W24x104	3'(4')	33' (27')	72' (66')	
35'	W24x131	3'(4')	38' (31'6")	82 (756")	
40'	W24x162	3'(4')	43' (35'6")	92' (84'6")	

28 FEET WIDE
INSTALLATIONS
(2 COLUMNS)

		- 1-7	\ ,	1)
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	Column and Founda	ation Requiremen	ts (Based on ASCE 7	-10)
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length
8'	W12x26	2'(3')	11'6" (10')	286"(27")
10'	W14x30	2'(3')	13'6" (11')	326" (30')
12'	W18x35	2'(3')	15' (12')	36' (33')
14'	W16x40	2'(3')	17' (13')	40' (36')
16'	W21x44	2'(3')	19'6" (15')	446" (40')
18'	W18x50	2'(3')	21' (16'6")	48' (43'6")
20'	W18x55	2'(3')	23 (17'6")	52' (46'6")
22'	W21x62	3'(4')	19' (16')	50' (47')
25'	W21x68	3'(4')	21'6" (18')	556" (52')
30'	W24x84	3'(4')	26' (22')	65' (61')
35'	W24x103	3'(4')	30' (25')	74' (69')
40'	W24x117	3'(4')	34 (28'6")	83' (77'6")

	Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length		
8'	W12x26	2'(3')	12' (10'6")	29 (276")		
10'	W1 4x30	2'(3')	13'6" (11')	326" (30')		
12'	W18x35	2'(3')	156" (12')	366" (33')		
14'	W16x40	2'(3')	17'6" (13'6")	40'6" (36'6")		
16'	W21x44	3'(4')	15 (12'6")	40' (37'6")		
18'	W18x50	3'(4')	16'6" (14')	43'6" (41')		
20'	W21x55	3'(4')	18' (15')	47' (44')		
22'	W21x62	3'(4')	196"(16')	50'6" (47')		
25'	W21x68	3'(4')	21'6" (18')	556" (52)		
30'	W24x84	3'(4')	25' (21')	64' (60')		
35'	W21x101	3'(4')	30' (25')	74' (69')		
40'	W24x117	3'(4')	34' (28')	83' (77')		

32 FEET WIDE
INSTALLATIONS
(3 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8,	W10x22	2'(3')	10'6" (9')	276" (26')	
10'	W12x26	2'(3')	11'6" (9'6")	306" (28'6")	
12'	W12x30	2'(3')	12'6" (10'6")	336" (31'6")	
14'	W1 4x34	2'(3')	14 (11'6")	37' (34'6")	
16'	W16x36	3'(4')	12' (11')	37' (36')	
18'	W16x40	3'(4')	13' (11'6")	40' (38'6")	
20'	W21x44	3'(4')	146" (12')	43'6" (41')	
22'	W18x50	3'(4')	156"(13')	46'6" (44')	
25'	W21x55	3'(4')	17'6" (14'6")	51'6" (48'6")	
30'	W21x68	3'(4')	20' (17')	59' (56')	
35'	W24x84	3'(4')	24' (20')	68' (64')	
40'	W24x94	3'(4')	27'6" (23')	76'6" (72')	

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Column and Foundation Requirements (Based on ASCE 7-10)						
	Column and Full Na	anni redni di d	IG (DESCU OHASCE 1-	10)		
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length		
9'	W1 4x34	2'(3')	14 (11'6")	32 (296")		
10"	W14x34	2'(3')	15' (12')	34' (31')		
11'	W1 6x36	2'(3')	16'6" (12'6")	366" (32'6")		
12'	W16x40	2'(3')	17'6" (13'6")	386" (34'6")		
13'	W1 4x43	3'(4')	14' (12')	36' (34')		
14'	W21x44	3'(4')	15' (12'6")	38 (356")		
15'	W16x50	3'(4')	16' (13')	40' (37')		
20'	W21x62	3'(4')	20' (17')	49' (46')		
25'	W24x76	3'(4')	24' (20')	58' (54')		
30'	W24x94	3'(4')	28 (23'6")	67' (62'6")		
35'	W24x104	3'(4')	32'6" (26'6")	766" (70'6")		
40'	W24x146	3'(4')	38 (31'6")	87" (80"6")		

36 FEET WIDE **INSTALLATIONS** (3 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Braced Column*	Pier Dia.	Pier Depth	Column Length	
9'	W12x26	2'(3')	11'6" (10')	296" (28)	
10'	W12x26	2'(3')	12' (10'6")	31' (29'6")	
11'	W12x30	2'(3')	13' (11')	33' (31')	
12'	W1 4x30	2'(3')	13'6" (11')	346" (32)	
13'	W1 4x34	3'(4')	11'6" (10'6")	33'6" (32'6")	
14'	W18x35	3'(4')	12' (11')	35' (34')	
15'	W16x36	3'(4')	126"(11')	366" (35)	
20'	W18x50	3'(4')	16' (13'6")	45 (426")	
25'	W21x62	3'(4')	19'6" (16')	536" (50')	
30'	W24x68	3'(4')	22'6" (19')	61'6" (58')	
35'	W24x84	3'(4')	26' (21'6")	70' (65'6")	
40'	W24x104	3'(4')	30'6" (25'6")	796" (74'6")	

12/14/2018

Chart Notes:

- 1. If the display height is between chart values shown above, use the next highest value.
- * It is required that 4x3x3/16 steel tubing be welded to back of columns 10' from the ground and every 10' to the top of the column for bracing. (See detail on 241-0415).
 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.
- 4. 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 Pier Installation 2/3 Column With Laterals

Drawn

KAB



Nevco, Inc. Greenville, Illinois 62246

Drawing No.

241-0407 Sheet of 8

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EXPOSURE B (See Note 4)

Column and Foundation Doguiromente (Bacod on ASCE 7.10)						
Column and Foundation Requirements (Based on ASCE 7-10)						
DisplayHeight	Braced Column*	Pier Dia.	Pier Depth	Column Length		
8'	W16x36	2' (3')	17' (13')	34' (30')		
10	W21x44	2' (3')	19'6" (15')	386" (34)		
12'	W18x50	2' (3')	22'6" (17')	43'6" (38')		
14	W21x55	2' (3')	26' (19'6")	49 (426")		
16	W21x62	2' (3')	28'6" (21'6")	53'6" (46'6")		
18'	W24x68	2' (3')	31'6" (23'6")	58'6" (50'6")		
20"	W24x76	2' (3')	34' (26')	63' (55')		
22	W24x84	3' (4')	28' (23')	59' (54')		
25	W24x103	3' (4')	32'6" (26'6")	66'6" (60'6")		
30'	W24x131	3'(4')	38' (31'6")	77" (70'6")		
35	W24x162	3' (4')	44' (36')	88' (80')		
40'	W24x192	3' (4')	49'6" (40'6")	98'6" (89'6")		

24 FEET WIDE **INSTALLATIONS** (2 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
DisplayHeight	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W12x30	2' (3')	13' (11')	30' (28')	
10"	W1 4x34	2' (3')	15'6" (12')	34'6" (31')	
12'	W16x40	2' (3')	17'6" (13'6")	38'6" (34'6")	
14	W1 4x48	2' (3')	20' (15'6")	43' (386")	
16	W18x50	2' (3')	22' (17')	47' (42')	
18'	W21x55	2' (3')	24'6" (18'6")	51'6" (45'6")	
20	W21x62	2' (3')	26'6" (20')	55'6" (49')	
22	W21x68	3' (4')	22' (18'6")	53' (49'6")	
25	W24x76	3' (4')	25'6" (21')	596" (55')	
30'	W21x101	3' (4')	30' (25')	69' (64')	
35	W24x117	3' (4')	34'6" (28'6")	78'6" (72'6")	
40'	W24x146	3' (4')	39'6" (32'6")	88'6" (81'6")	

Column and Foundation Requirements (Based on ASCE 7-10)					
DisplayHeight	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W16x40	2' (3')	18'6" (14')	35'6" (31')	
10"	W16x50	2' (3')	22' (16'6")	41' (356")	
12	W18x55	2' (3')	25' (19')	46' (40')	
14	W21x62	2' (3')	28'6" (21'6")	51'6" (44'6")	
16'	W24x68	2' (3')	32' (24')	57' (49')	
18'	W24x76	2' (3')	35' (26'6")	62 (536")	
20'	W24x84	2' (3')	38'6" (28'6")	676" (57'6")	
22	W24x94	3' (4')	31' (25'6")	62' (566")	
25	W24x104	3' (4')	34'6" (28'6")	686" (62'6")	
30'	W24x146	3' (4')	42'6" (35')	816" (74')	
35	W24x192	3' (4')	49' (40')	93' (84')	
40'	W18x283	3' (4')	55'6" (45'6")	1046" (946")	

28 FEET WIDE **INSTALLATIONS** (2 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
DisplayHeight	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8'	W14x34	2' (3')	14'6" (11'6")	31'6" (28'6")	
10'	W16x36	2'(3')	17' (13')	36' (32')	
12'	W21x44	2'(3')	19'6" (15')	40'6" (36')	
14	W18x50	2'(3')	22' (16'6")	45' (396")	
16'	W21x55	2'(3')	24'6" (19')	49'6" (44')	
18'	W21x62	2'(3')	27' (20'6")	54' (47'6")	
20'	W21x68	2'(3')	29'6" (22'6")	58'6" (51'6")	
22'	W18x76	3'(4')	24'6" (20')	55 '6" (51')	
25	W24x84	3' (4')	27 (22'6")	61' (56'6")	
30'	W24x104	3'(4')	33'6" (27'6")	72'6" (66'6")	
35	W24x131	3' (4')	38'6" (32')	826" (76')	
40'	W24x162	3' (4')	44' (36')	93' (85')	

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Column and Foundation Requirements (Based on ASCE 7-10)					
DisplayHeight	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8.	W1 4x34	2'(3')	15' (12')	32' (29')	
10"	W1 6x40	2'(3')	17'6" (13'6")	36'6" (32'6")	
12'	W21x44	2'(3')	20' (15')	41' (36')	
14	W18x50	2'(3')	22'6" (17')	45'6" (40')	
16'	W21x55	3'(4')	19' (15'6")	44' (40'6")	
18'	W21x62	3'(4')	21' (17'6")	48' (44'6")	
20'	W24x68	3'(4')	23' (19')	52' (48')	
22	W24x76	3' (4')	24'6" (20'6")	55'6" (51'6")	
25	W24x84	3'(4')	27'6" (22'6")	61'6" (56'6")	
30'	W24x104	3'(4')	32 (266")	71' (656")	
35	W24x131	3' (4')	38'6" (31'6")	82'6" (75'6")	
40'	W24x162	3'(4')	43'6" (35'6")	92'6" (84'6")	

32 FEET WIDE **INSTALLATIONS** (3 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
DisplayHeight	Braced Column*	Pier Dia.	Pier Depth	Column Length	
8,	W12x26	2'(3')	12' (10')	29' (27')	
10"	W14x30	2'(3')	13'6" (11')	32'6" (30')	
12'	W18x35	2'(3')	15'6" (12')	36'6" (33')	
14	W16x40	2'(3')	17'6" (13'6")	40'6" (36'6")	
16	W21x44	3'(4')	15' (12'6")	40' (376")	
18'	W18x50	3'(4')	16'6" (14')	43'6" (41')	
20	W21x55	3' (4')	18' (15')	47' (44')	
22	W21x62	3'(4')	19'6" (16'6")	50'6" (47'6")	
25	W21x68	3'(4')	21'6" (18')	55'6" (52')	
30	W24x84	3' (4')	25'6" (21')	64'6" (60')	
35	W24x104	3'(4')	30'6" (25'6")	74'6" (69'6")	
40'	W24x117	3' (4')	34'6" (28'6")	83'6" (77'6")	

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Column and Foundation Requirements (Based on ASCE 7-10)					
DisplayHeight	Braced Column*	Pier Dia.	Pier Depth	Column Length	
9'	W16x40	2' (3')	18' (14')	36' (32')	
10'	W21x44	2'(3')	19'6" (15')	386" (34)	
11"	W16x50	2'(3')	21' (16')	41' (36')	
12'	W18x50	2'(3')	22' (17')	43' (38')	
13'	W18x55	3'(4')	18' (15')	40' (37')	
14	W21x55	3'(4')	19' (16')	42'(39')	
15	W21x62	3'(4')	20' (16'6")	44' (40'6")	
20	W24x76	3' (4')	25'6" (21')	54'6" (50')	
25	W21x101	3'(4')	31' (25'6")	65' (59'6")	
30'	W24x117	3'(4')	36' (29'6")	75' (68'6")	
35	W24x146	3'(4')	41'6" (34')	85'6" (78')	
40'	W24x192	3'(4')	49' (40'6")	98' (89'6")	

36 FEET WIDE **INSTALLATIONS** (3 COLUMNS)

Column and Foundation Requirements (Based on ASCE 7-10)					
DisplayHeight	Braced Column*	Pier Dia.	Pier Depth	Column Length	
9'	W1 4x30	2' (3')	14' (11'6")	32 (296")	
10"	W1 4x34	2' (3')	15' (12')	34' (31')	
11	W16x36	2' (3')	16' (12'6")	36 (326")	
12'	W16x40	2' (3')	17' (13'6")	38 (346")	
13'	W1 4x43	3' (4')	14' (12')	36' (34')	
14	W21x44	3' (4')	15' (12'6")	38 (356")	
15	W16x50	3' (4')	15'6" (13')	396" (37')	
20"	W21x62	3' (4')	20' (17')	49' (46')	
25	W24x76	3' (4')	24'6" (20')	586" (54")	
30'	W24x94	3' (4')	28'6" (23'6")	67'6" (62'6")	
35	W24x104	3' (4')	33' (27')	77' (71')	
40'	W24x146	3' (4')	39' (32')	88' (81')	

Chart Notes:

1. If the display height is between chart values shown above, use the next highest value.

2. * It is required that 4x3x3/16 steel tubing be welded to back of columns 10' from the ground and every 10' to the top of the column for bracing. (See detail on 241-0415).

3. 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.
- 4. 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 Pier Installation 2/3 Column With Laterals

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Nevco, Inc. Greenville, Illinois 62246

Drawing No. 241-0407

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