SINGLE COLUMN GROUND SIGN NOTES:

1. DESIGN WIND SPEED: See Wind Speeds by County.
2. GENERAL SPECIFICATIONS: Current FDOT Standard Specifications for Road and Bridge Construction and supplements thereto.
3. DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, as modified by the FDOT Structures Manual.
4. ALUMINUM: Aluminum Materials shall meet the requirements of Aluminum Association Alloy 6061-T6 (ASTM B209, B221, or B308), except as noted below.
5. CONCRETE: Class I.
6. SIGN PANELS: 0.08 inches min. thick Aluminum Plate with all corners rounded.
7. ALUMINUM BOLTS, NUTS, AND LOCK WASHERS:
   a. Aluminum bolts: ASTM F468, Alloy 2042-T4 with at least 0.0002 inches thick anodic coating and chromate sealed.
   b. Nuts: ASTM F467, Alloy 6061-T6 or 6262-T9.
   c. Lockwashers: ASTM B221, Alloy 7075-T6.
8. STAINLESS STEEL BOLTS, NUTS, AND LOCKWASHERS: Stainless Steel Bolts, Nuts, and Lockwashers: ASTM F593 and ASTM F594, Alloy Group 2. Condition A, CW2, or SH4 may be provided in lieu of Aluminum Bolts, Nuts, and Washers.
9. U-BOLTS, NUTS, AND LOCKWASHERS: U-bolts, Nuts, and Lockwashers: ASTM A307, Grade A, galvanized in accordance with ASTM F2329.
10. BREAKAWAY SUPPORTS REQUIREMENTS: Install non-frangible aluminum column (post) (larger than 3½") with breakaway supports as shown on Sheet 5. Signs shielded by barrier wall or guardrail do not require breakaway support.

WIND SPEEDS BY COUNTY:

110 MPH
Alachua, Baker, Bradford, Clay, Columbia, Gadsden, Gilchrist, Hamilton, Hardee, Jackson, Jefferson, Lafayette, Lake, Leon, Madison, Marion, Polk, Putnam, Sumter, Suwannee and Union counties.

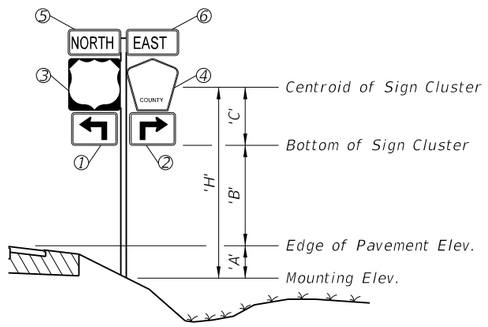
130 MPH
Bay, Brevard, Calhoun, Charlotte, Citrus, De Soto, Dixie, Duval, Flagler, Franklin, Glades, Gulf, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lee, Levy, Liberty, Manatee, Nassau, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Sarasota, Seminole, St Johns, Taylor, Volusia, Wakulla, Walton and Washington counties.

150 MPH
Broward, Collier, Dade, Escambia, Indian River, Martin, Monroe, Palm Beach, Santa Rosa and St. Lucie counties.

GUIDE TO USE THIS STANDARD:

1. Calculate the area and the centroid for an individual sign or a sign cluster. Note that the centroid and areas have been calculated for frequently used sign clusters. These are shown on Sheet No. 6, 7 & 8 of 8.
2. Determine the height 'H' from groundline for the individual sign or the cluster.
3. Select the appropriate Column (Post) Selection Tables by Wind Speed and find the intersection point.
4. Design the post and the foundation according to the dark-bold lines or shaded area (if cantilever sign) in the Column (Post) Selection Tables and Post and Foundation Table. For sign posts with signs oriented in two directions, only the sign with the largest area should be analyzed to determine the post requirements.

EXAMPLE:



	Size H x V	Centroid: local $'Y_n'$	Centroid: global $'X_n'$	Centroid: global $'Y_n'$	$'A_n'$	$'X_n'$ x $'A_n'$	$'Y_n'$ x $'A_n'$	
	(in. x in.)	(in.)	(in.)	(in.)	($in.^2$)	($in.^3$)	($in.^3$)	
①	21 x 15	7.5	-10.5-1.5-1.5 = -13.5	7.5	315	-4,252.5	2,362.5	
②	21 x 15	7.5	10.5+1.5+1.5 = 13.5	7.5	315	+4,252.5	2,362.5	
③	24 x 24	12	-12-1.5 = -13.5	15+1+12= 28	576	-7,776	16,128	
④	24 x 24	12	12+1.5 = 13.5	15+1+12= 28	436	5,886	12,208	
⑤	24 x 12	6	-12-1.5 = -13.5	15+1+24+ 1+6=47	288	-3,888	13,536	
⑥	24 x 12	6	12+1.5 = 13.5	15+1+24+ 1+6=47	288	3,888	13,536	
					2,218	-1,890	60,133	TOTALS

$\Sigma('A_n') = 2{,}218\ in.^2 = 15.4\ ft.^2$ $\quad \Sigma('X_n' \times 'A_n') = -1{,}890\ in.^3 = -1.09\ ft.^3$ $\quad \Sigma('Y_n' \times 'A_n') = 60{,}133\ in.^3 = 34.8\ ft.^3$

$'X'_c = \dfrac{\Sigma('X'_n \times 'A'_n)}{\Sigma 'A'_n} = -0.1\ ft.$ $\quad 'Y'_c = \dfrac{\Sigma('Y'_n \times 'A'_n)}{\Sigma 'A'_n} = 2.26\ ft.$

Assume: Bay County, 'A' = 1 ft., 'B' = 7 ft.

Calculated: $'X'_c = -0.1$ ft. 'C' = $'Y'_c = 2.26$ ft.

Since $'X'_c < 6"$, it is not a cantilever sign, only dark-bold lines in the table will be referenced to.

'H' = 'A' +'B' +'C' = 10.26 ft. ==> USE 11 ft. $\Sigma('A_n') = 15.4\ ft.^2$ ==> USE 16 $ft.^2$

ALUMINUM COLUMN (POST) SELECTION TABLE (WIND SPEED = 130 MPH)

TOTAL PANEL AREA (SF)	'H' (ft.) 8 [0]	9	10	11 [1]	12	13	14 [2]	15	16	17	18	19	20	
3	▨													3
4						▨								
5														
6			▨											
7		▨												
8	▨													4
9						▨						▨		
10					▨						▨			
11														5
12														
13														
14														6
15							▨			▨				
16	▨	–	–	–	–	–	X							
17														
18					▨			▨						
19														
20				▨										
21														
22			▨											
23								▨						
24					▨								▨	7
25		▨					▨							
26				▨								▨		
27														
28	▨										▨			
29	▨		▨											
30					▨									8

For WIND SPEED = 130 MPH, 'H' = 11 ft., Area = 16 $ft.^2$

- Refer to the 130 mph Column (Post) Selection Table, as copied from Sheet 3 and shown here.
- Using the 16 $ft.^2$ area on the left hand side of the table, go across to the 11 ft. height and find the cell marked with X.
- find the symbol [4] which the dark-bold line under the X cell leads to.
- In the Post and Foundation Table, the symbol [4] concludes that the design requires a 4.0" diameter and 0.25" thick Aluminum Column (Post) and a 2.0' diameter and 4.0' deep Concrete Foundation.

▨ = If CANTILEVER SIGN configuration (see Cantilever Sign Details) falls in this region, use next larger post size than that indicated.

NOTES AND EXAMPLE

LAST REVISION	REVISION	DESCRIPTION:		FDOT DESIGN STANDARDS 2013	SINGLE COLUMN GROUND SIGNS	INDEX NO.	SHEET NO.
01/01/12						11860	1

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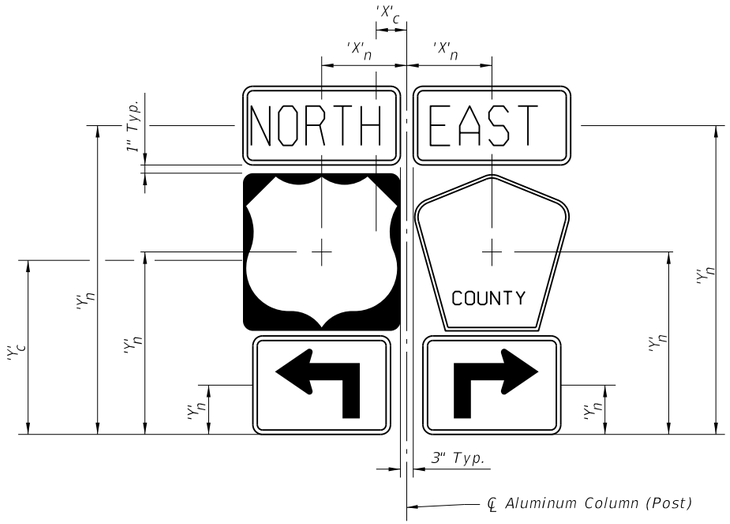


SIGN CLUSTER

CALCULATION OF SIGN CLUSTER CENTROID:

$$'X'_c = \frac{\Sigma\,('X'_n \times 'A'_n)}{\Sigma\,'A'_n}$$

$$'C' = 'Y'_c = \frac{\Sigma\,('Y'_n \times 'A'_n)}{\Sigma\,'A'_n}$$

$'X'_c$ = Centroid horizontal location of sign or cluster from ℄ Column (post)

$'Y'_c$ = Centroid height of sign or cluster from bottommost edge

$'H'$ = Height of sign or cluster centroid from groundline

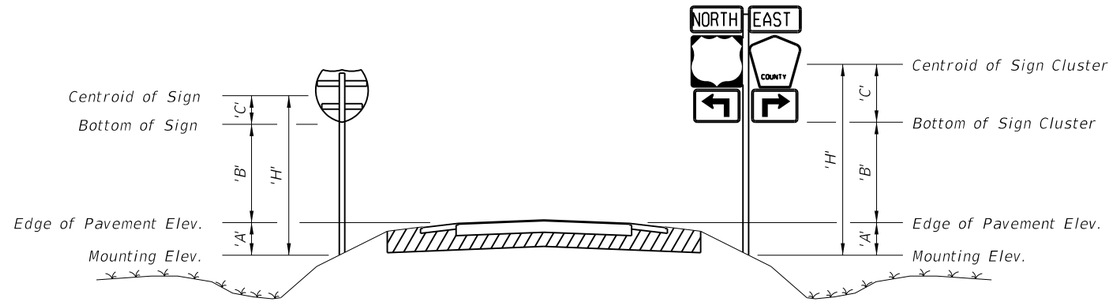
$'X'_n$ = Individual sign centroid horizontal location from ℄ Column (post)

$'Y'_n$ = Individual sign centroid height from bottommost edge

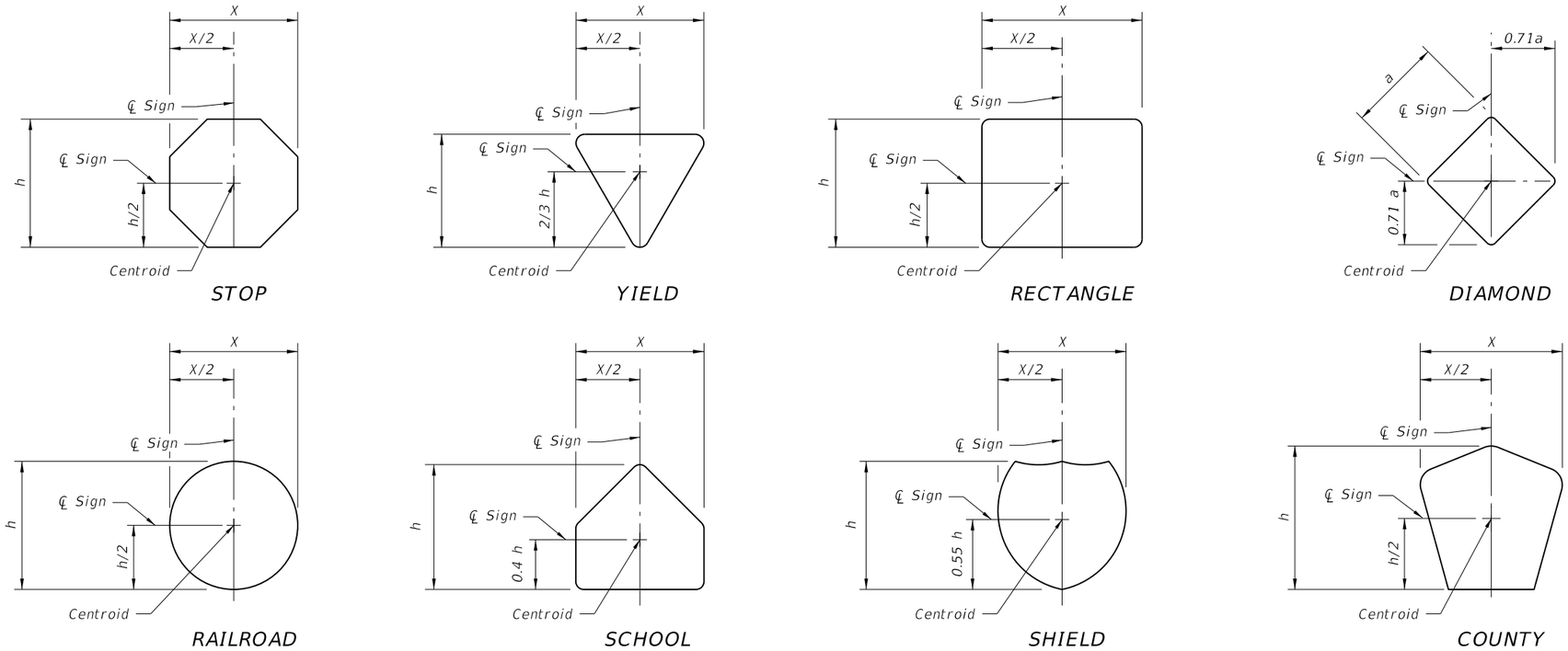
$'A'_n$ = Area of individual sign

For 'A' & 'B' see Index No. 17302 and Roadway Plans.

NOTE:
No sign or sign cluster area shall exceed 30 SF nor shall any sign or sign cluster have a total width exceeding 60 inches.



TYPICAL SECTION



STOP YIELD RECTANGLE DIAMOND

RAILROAD SCHOOL SHIELD COUNTY

CENTROID AND HEIGHT

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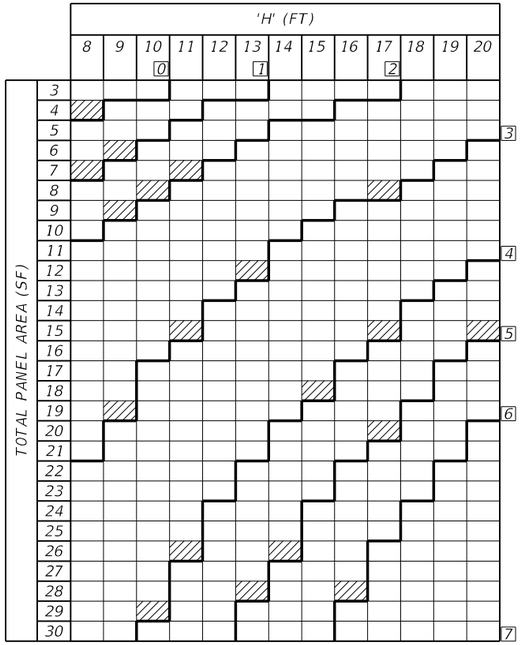
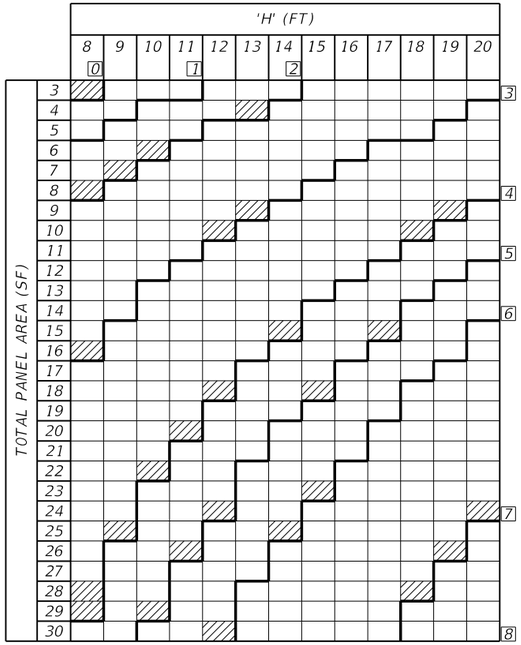
LAST REVISION	REVISION	DESCRIPTION:			INDEX NO.	SHEET NO.
07/01/09			FDOT DESIGN STANDARDS 2013	SINGLE COLUMN GROUND SIGNS	11860	2

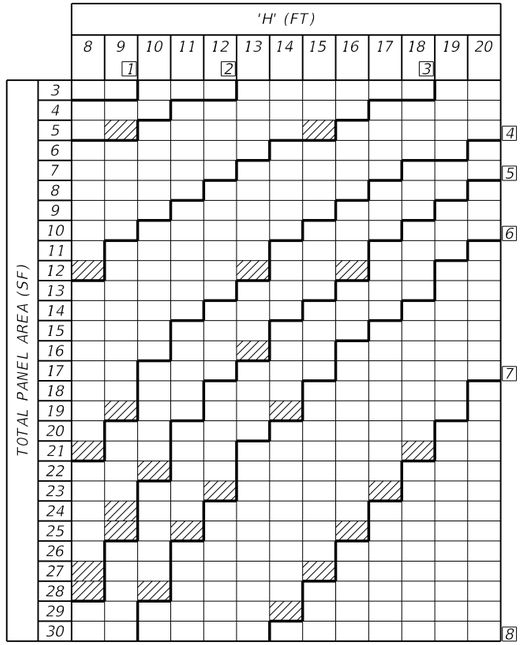
ALUMINUM COLUMN (POST) SELECTION TABLE (WIND SPEED = 110 MPH)



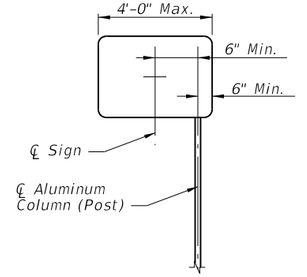
ALUMINUM COLUMN (POST) SELECTION TABLE (WIND SPEED = 130 MPH)



ALUMINUM COLUMN (POST) SELECTION TABLE (WIND SPEED = 150 MPH)



▨ = If CANTILEVER SIGN configuration (see Cantilever Sign Details) falls in this region, use next larger post size than that indicated.



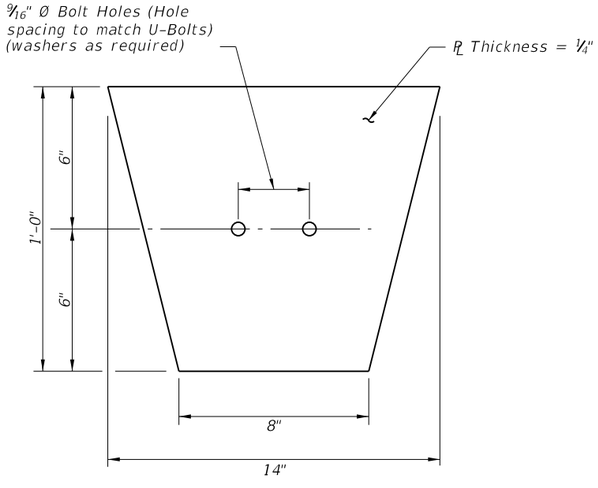
CANTILEVER SIGN

NOTE:
All cantilever sign installations shall comply with Standard Index 17302.

POST AND FOUNDATION TABLE

	Foundation Alternatives						
	Post Size		Driven Post *		Concrete (Class I)		
	Diameter (IN)	Wall (IN)	Depth (FT) without Soil Plate	Depth (FT) with Soil Plate	Diameter (FT)	Depth (FT)	Stub Length (FT)
0	2.0	1/8	4.5	2.5	2.0	2.0	2.0
1	2.5	1/8	5.0	3.0	2.0	2.0	2.0
2	3.0	1/8	5.0	3.5	2.0	2.5	2.5
3	3.5	3/16	6.0	4.5	2.0	3.0	3.0
4	4.0	1/4	---	---	2.0	4.0	3.0
5	4.5	1/4	---	---	2.0	4.0	3.0
6	5.0	1/4	---	---	2.0	4.5	3.0
7	6.0	1/4	---	---	2.0	5.0	3.0
8	8.0	5/16	---	---	2.0	5.5	3.0

* INSTALLING FRANGIBLE COLUMN SUPPORTS:
Columns (posts) may be installed by driving the columns in accordance with this Index, or as an alternate method, the columns (posts) may be set to the depth indicated in preformed holes backfilled with suitable material tamped in layers not thicker than 6" to provide adequate compaction or filled with flowable fill or bagged concrete.



ALUMINUM SOIL PLATE DETAILS

NOTES:
1. Align Soil Plate bottom at 2/3 of foundation depth.
2. Slot up to 1" long is allowed to accommodate various post sizes.
3. Rectangular soil plate of size 1'-2" x 1'-0" may be used as an alternative.

POST AND FOUNDATION TABLES

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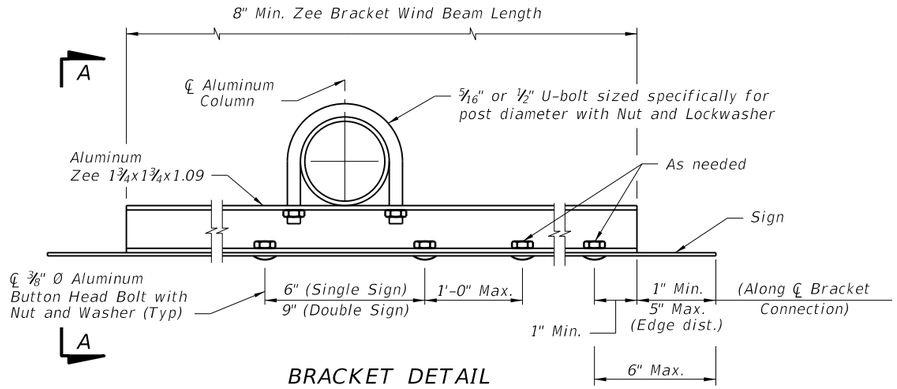
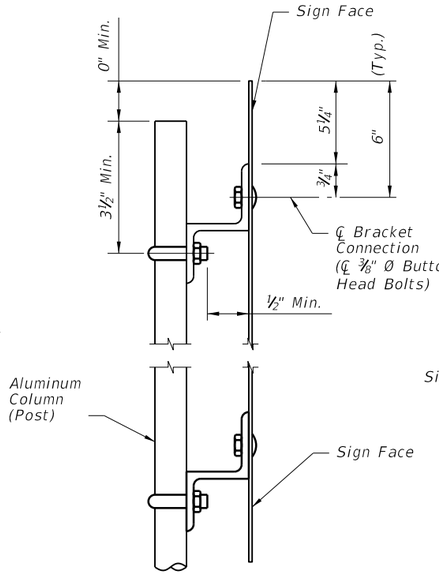


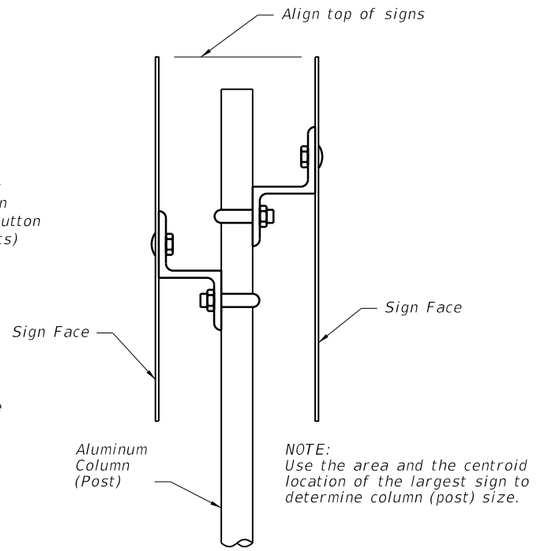
BRACKET DETAIL

NOTES:
1. 5/16" Ø Stainless Steel Hex Head Bolts with Flat Washer under Head and Lockwasher under Nut may be used in lieu of 3/8" Ø Aluminum Button Head Bolts.
2. Nylon washers provided by the sheeting supplier shall be used on all ground mounted signs. The washers shall be installed under the sign bolt head to protect the sheeting.
3. Vertical spacing of brackets shall not exceed 2'-6". Use additional brackets, spaced evenly, to maintain maximum spacing.

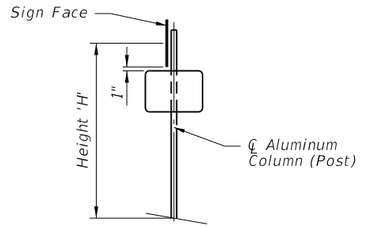
* For signs with either dimension of sign size greater than 30" a third zee bracket wind beam shall be installed along the ℄.



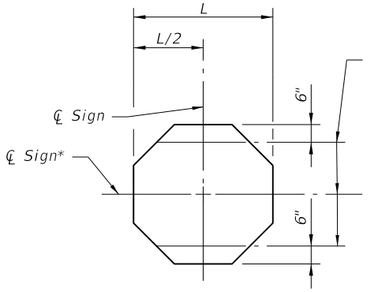
VIEW A-A



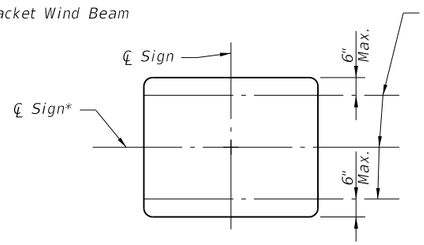
SIGNS BACK-TO-BACK



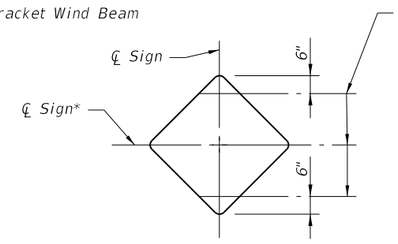
SIGNS AT 90°



STOP

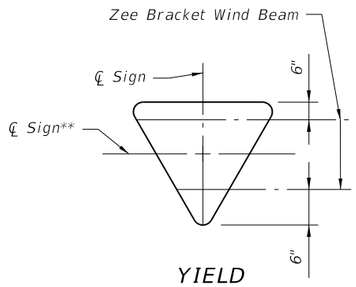


RECTANGLE
(Use only one Wind Beam at ℄ Sign for sign height up to 12")

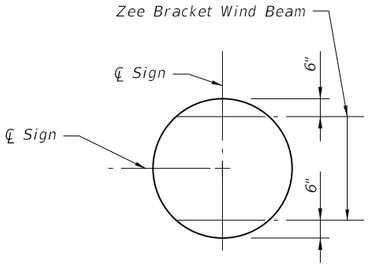


DIAMOND

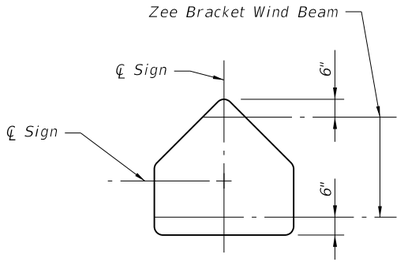
** For Yield signs greater than 36" a third zee bracket wind beam shall be installed along the ℄.



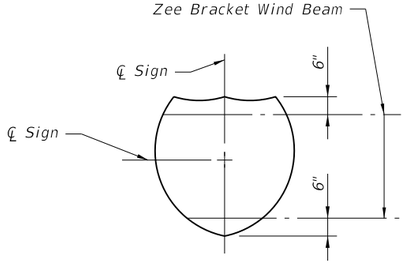
YIELD



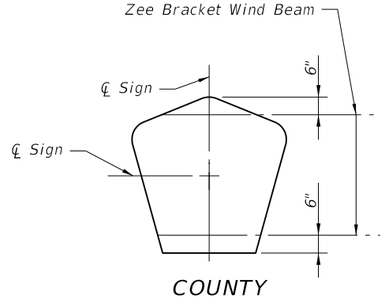
RAILROAD



SCHOOL



SHIELD



COUNTY

CONNECTION AND WIND BEAM

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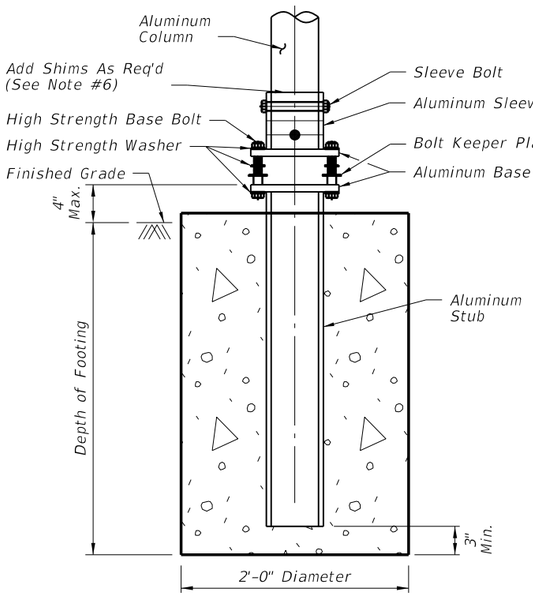
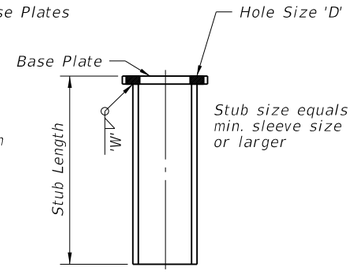
LAST REVISION	REVISION	DESCRIPTION:			INDEX NO.	SHEET NO.
07/01/12			FDOT DESIGN STANDARDS 2013	SINGLE COLUMN GROUND SIGNS	11860	4



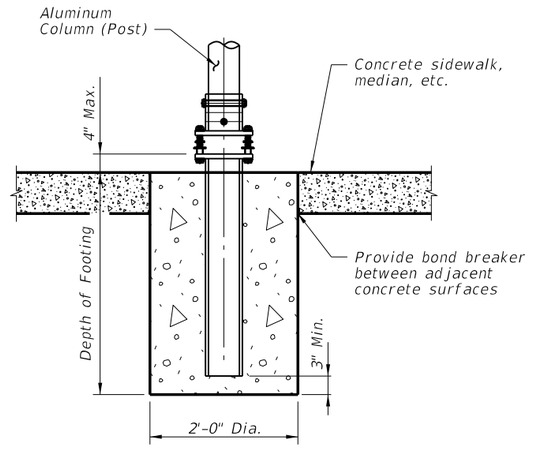
SLIP BASE AND FOOTING DETAIL
(non-frangible post)



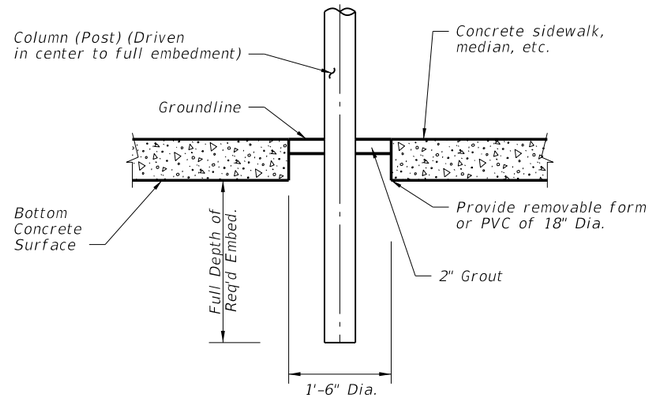
STUB DETAIL

SLIP BASE NOTES:

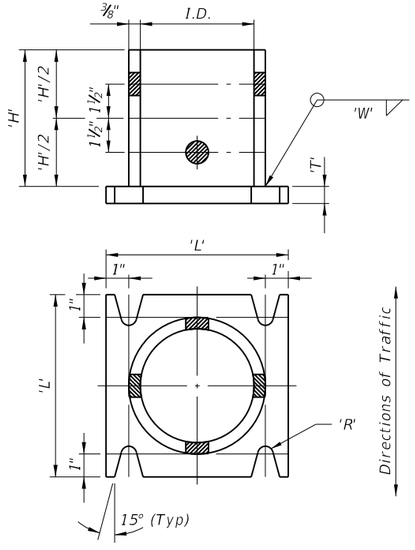
1. Use sleeves with an inside diameter (I.D.) no more than 1/16" larger than the outside diameter (O.D.) of the column.
2. Sleeve Bolts: ASTM A-307, 1/2" Ø galvanized steel bolt (with lock nuts) or Alloy 2024-T4 or 6061-T6 (ASTM B-211).
3. Base bolts, Nuts, and Washers: high strength ASTM A-325 galvanized per ASTM F2329.
4. Base plates may have either single or double beveled slots.
5. An alternate cast base plate of aluminum alloy 356 and T6 temper in lieu of the fabricated base plate may be submitted for approval. If a cast base plate is used, the stub will be the same size as the column and will be bolted to the casting.
6. Assemble the slip base connection in the following manner:
   a. Connect column to sleeve using two 1/2" Ø machine bolts.
   b. Assemble top base plate to stub base plate using high strength bolts with three hardened washers per bolt. One of the three washers per bolt and two bolt keeper plates go between the base plates. Orient the bolt keeper plates in the Directions of Traffic.
   c. Use shim stock as required to plumb the column.
   d. Tighten all bolts to the maximum possible with a 12" to 15" wrench. (This will bed the washers and shims and clear the bolt threads.)
   e. Loosen each bolt one turn and using a calibrated wrench retighten to the prescribed torque (see table) under the supervision of the Project Engineer.
   f. Burr threads at junction with nut using a center punch to prevent nut loosening.
7. Use galvanized steel shims to obtain a tight fit between the column face and the sleeve. Place shims in all quadrants between the 1/2" Ø sleeve bolts. Use shims that are 1" shorter than the height of the sleeve.
8. Both fabricated and cast base assemblies were impact tested by the Texas Transportation Institute, College Station, TX on February 10, 2003, and both alternate assemblies were determined to be compliant with the performance recommendations of the National Cooperative Highway Research Program (NCHRP) report 350.



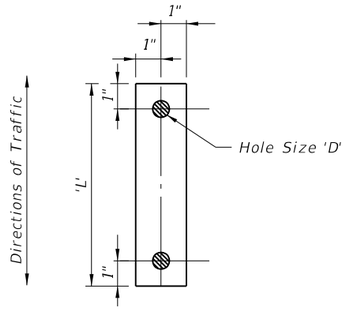
SLIP BASE AND FOOTING DETAIL IN CONCRETE
(non-frangible post in crossovers, medians, & sidewalks)



DRIVEN POST DETAIL IN CONCRETE
(frangible post in crossovers, medians, & sidewalks)



ALUMINUM SLEEVE & BASE PLATE DETAILS
(DOUBLE BEVELED SLOTS)



0.0149" Thick Alum. Strip - 2 Req'd Per Base
BOLT KEEPER PLATE DETAIL

SLIP BASE DETAILS

Column Size	Sleeve I.D. (Max)	Sleeve Height 'H'	Weld 'W'	Base Plate		Radius 'R'	Base Bolt		Base Plate Torque		Hole Size 'D'
				'L'	'T'		Size	Length	ft-lbs	in.-lbs	
4 x 1/4	4 1/16	6	5/8	8	3/4	11/32	5/8	3	29	345	11/16
4 1/2 x 1/4	4 9/16	6	5/8	8	7/8	11/32	5/8	3 1/4	29	345	11/16
5 x 1/4	5 1/16	7	5/8	8	7/8	11/32	5/8	3 1/4	29	345	11/16
6 x 1/4	6 1/16	8	11/16	9	1	13/32	3/4	3 1/2	46	554	13/16
8 x 5/16	8 1/16	10	3/4	11	1	15/32	7/8	3 3/4	53	640	15/16

Note: Unless noted otherwise, all dimensions are in inches.

BASE AND FOUNDATION DETAILS

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	Size	Area	Total Area	Centroid
ONE WAY / STOP	36x12	3.00 SF	6.31 SF	1.75 Ft.
	24x24	3.31 SF		

	Size	Area	Total Area	Centroid
ONE WAY / STOP	36x12	3.00 SF	8.18 SF	1.92 Ft.
	30x30	5.18 SF		

	Size	Area	Total Area	Centroid
ONE WAY / STOP / DIVIDED HIGHWAY	36x12	3.00 SF	10.46 SF	2.10 Ft.
	36x36	7.46 SF		

	Size	Area	Total Area	Centroid
ONE WAY / STOP	36x12	3.00 SF	16.25 SF	2.48 Ft.
	48x48	13.25 SF		

	Size	Area	Total Area	Centroid
STOP	24x24	3.31 SF	6.31 SF	1.71 Ft.
DIVIDED HIGHWAY	24x18	3.00 SF		

	Size	Area	Total Area	Centroid
STOP	30x30	5.18 SF	10.18 SF	2.19 Ft.
DIVIDED HIGHWAY	30x24	5.00 SF		

	Size	Area	Total Area	Centroid
STOP	36x36	7.46 SF	12.46 SF	2.55 Ft.
DIVIDED HIGHWAY	30x24	5.00 SF		

	Size	Area	Total Area	Centroid
ONE WAY / STOP / DIVIDED HIGHWAY	36x12	3.00 SF	13.18 SF	2.87 Ft.
	30x30	5.18 SF		
	30x24	5.00 SF		

	Size	Area	Total Area	Centroid
ONE WAY / STOP / DIVIDED HIGHWAY	36x12	3.00 SF	15.46 SF	3.15 Ft.
	36x36	7.46 SF		
	30x24	5.00 SF		

	Size	Area	Total Area	Centroid
JCT / 27	21x15	2.19 SF	6.19 SF	1.60 Ft.
	24x24	4.00 SF		

	Size	Area	Total Area	Centroid
JCT / 301	21x15	2.19 SF	7.19 SF	1.52 Ft.
	30x24	5.00 SF		

	Size	Area	Total Area	Centroid
BUSINESS OR EAST / 27 27	24x12	2.00 SF	6.00 SF	1.53 Ft.
	24x24	4.00 SF		

	Size	Area	Total Area	Centroid
BUSINESS OR EAST / 301 301	24x12	2.00 SF	7.00 SF	1.45 Ft.
	30x24	5.00 SF		

	Size	Area	Total Area	Centroid
BUSINESS OR EAST / 301 301	30x15	3.13 SF	8.13 SF	1.66 Ft.
	30x24	5.00 SF		

	Size	Area	Total Area	Centroid
27	24x24	4.00 SF	6.19 SF	1.73 Ft.
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
27	30x24	5.00 SF	7.19 SF	1.81 Ft.
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
BUSINESS OR EAST / 27 27	24x12	2.00 SF	8.19 SF	2.26 Ft.
	24x24	4.00 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
BUSINESS OR EAST / 301 301	24x12	2.00 SF	9.19 SF	2.27 Ft.
	30x24	5.00 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
BUSINESS OR EAST / 301 301	30x15	3.13 SF	10.32 SF	2.49 Ft.
	30x24	5.00 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
EAST / BUSINESS / 27	24x12	2.00 SF	10.19 SF	2.80 Ft.
	24x12	2.00 SF		
	24x24	4.00 SF		
	21x15	2.19 SF		

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LAST REVISION	REVISION	DESCRIPTION:		FDOT DESIGN STANDARDS 2013	SINGLE COLUMN GROUND SIGNS	INDEX NO.	SHEET NO.
07/01/07						11860	6

	Size	Area	Total Area	Centroid
EAST	24x12	2.00 SF	11.19 SF	2.76 Ft.
BUSINESS	24x12	2.00 SF		
301	30x24	5.00 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
EAST	30x15	3.13 SF	13.45 SF	3.16 Ft.
BUSINESS	30x15	3.13 SF		
301	30x24	5.00 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	3.90 SF	1.57 Ft.
LEON 56 COUNTY	18x18	1.71 SF		

	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	5.22 SF	1.72 Ft.
LEON 56 COUNTY	24x24	3.03 SF		

	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	6.95 SF	1.87 Ft.
LEON 56 COUNTY	30x30	4.76 SF		

	Size	Area	Total Area	Centroid
LEON 56 COUNTY	18x18	1.71 SF	3.90 SF	1.26 Ft.
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
LEON 56 COUNTY	24x24	3.03 SF	5.22 SF	1.62 Ft.
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
LEON 56 COUNTY	30x30	4.76 SF	6.95 SF	1.97 Ft.
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
TO	24x12	2.00 SF	9.39 SF	2.87 Ft.
EAST	24x12	2.00 SF		
INTERSTATE 75	24x24	3.20 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
TO	24x12	2.00 SF	10.18 SF	2.84 Ft.
EAST	24x12	2.00 SF		
INTERSTATE 295	30x24	3.99 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
TO	30x15	3.13 SF	12.44 SF	3.26 Ft.
EAST	30x15	3.13 SF		
INTERSTATE 295	30x24	3.99 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	5.39 SF	1.75 Ft.
INTERSTATE 75	24x24	3.20 SF		

	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	6.18 SF	1.67 Ft.
INTERSTATE 295	30x24	3.99 SF		

	Size	Area	Total Area	Centroid
EAST INTERSTATE 75 OR TO INTERSTATE 75	24x12	2.00 SF	5.20 SF	1.67 Ft.
	24x24	3.20 SF		

	Size	Area	Total Area	Centroid
EAST INTERSTATE 295 OR TO INTERSTATE 295	24x12	2.00 SF	5.99 SF	1.60 Ft.
	30x24	3.99 SF		

	Size	Area	Total Area	Centroid
EAST INTERSTATE 295 OR TO INTERSTATE 295	30x15	3.13 SF	7.12 SF	1.81 Ft.
	30x24	3.99 SF		

	Size	Area	Total Area	Centroid
EAST INTERSTATE 75 OR TO INTERSTATE 75	30x15	3.13 SF	10.33 SF	2.27 Ft.
	36x36	7.20 SF		

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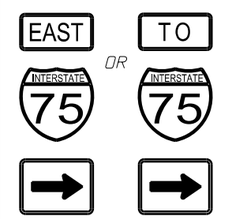
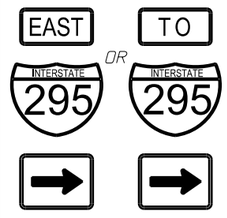
LAST REVISION	REVISION	DESCRIPTION:		FDOT DESIGN STANDARDS 2013	SINGLE COLUMN GROUND SIGNS	INDEX NO.	SHEET NO.
07/01/07						11860	7

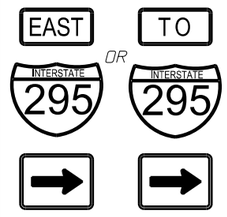
Size	Area	Total Area	Centroid
30x15	3.13 SF	12.12 SF	2.18 Ft.
45x36	8.99 SF		



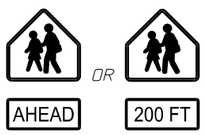
Size	Area	Total Area	Centroid
24x12	2.00 SF	7.39 SF	2.30 Ft.
24x24	3.20 SF		
21x15	2.19 SF		



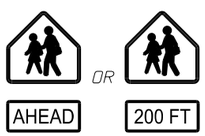
Size	Area	Total Area	Centroid
24x12	2.00 SF	8.18 SF	2.31 Ft.
30x24	3.99 SF		
21x15	2.19 SF		



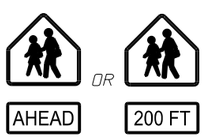
Size	Area	Total Area	Centroid
30x15	3.13 SF	9.31 SF	2.55 Ft.
30x24	3.99 SF		
21x15	2.19 SF		



Size	Area	Total Area	Centroid
30x30	4.69 SF	6.69 SF	1.61 Ft.
24x12	2.00 SF		



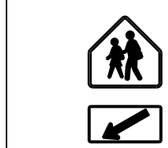
Size	Area	Total Area	Centroid
30x30	4.69 SF	8.44 SF	1.77 Ft.
30x18	3.75 SF		



Size	Area	Total Area	Centroid
36x36	6.75 SF	10.50 SF	2.06 Ft.
30x18	3.75 SF		

Size	Area	Total Area	Centroid
30X30	4.69 SF	6.69 SF	1.61 Ft.
24X12	2.00 SF		

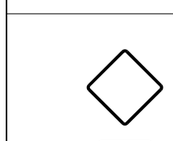
Size	Area	Total Area	Centroid
30X30	4.69 SF	8.44 SF	1.77 Ft.
30X18	3.75 SF		



Size	Area	Total Area	Centroid
36X36	6.75 SF	10.50 SF	2.06 Ft.
30X18	3.75 SF		

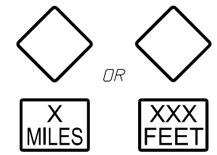
Size	Area	Total Area	Centroid
30X30	6.25 SF	8.25 SF	2.28 Ft.
24X12	2.00 SF		

Size	Area	Total Area	Centroid
36X36	9.00 SF	12.75 SF	2.84 Ft.
30X18	3.75 SF		

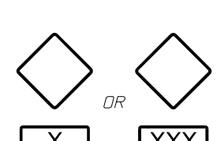


Size	Area	Total Area	Centroid
30X30	6.25 SF	10.25 SF	2.74 Ft.
24X24	4.00 SF		

Size	Area	Total Area	Centroid
36X36	9.00 SF	15.25 SF	3.29 Ft.
30X30	6.25 SF		



Size	Area	Total Area	Centroid
30X30	6.25 SF	9.25 SF	2.51 Ft.
24X18	3.00 SF		



Size	Area	Total Area	Centroid
36X36	9.00 SF	14.00 SF	3.06 Ft.
30X24	5.00 SF		

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LAST REVISION	REVISION	DESCRIPTION:			INDEX NO.	SHEET NO.
07/01/07			FDOT DESIGN STANDARDS 2013	SINGLE COLUMN GROUND SIGNS	11860	8