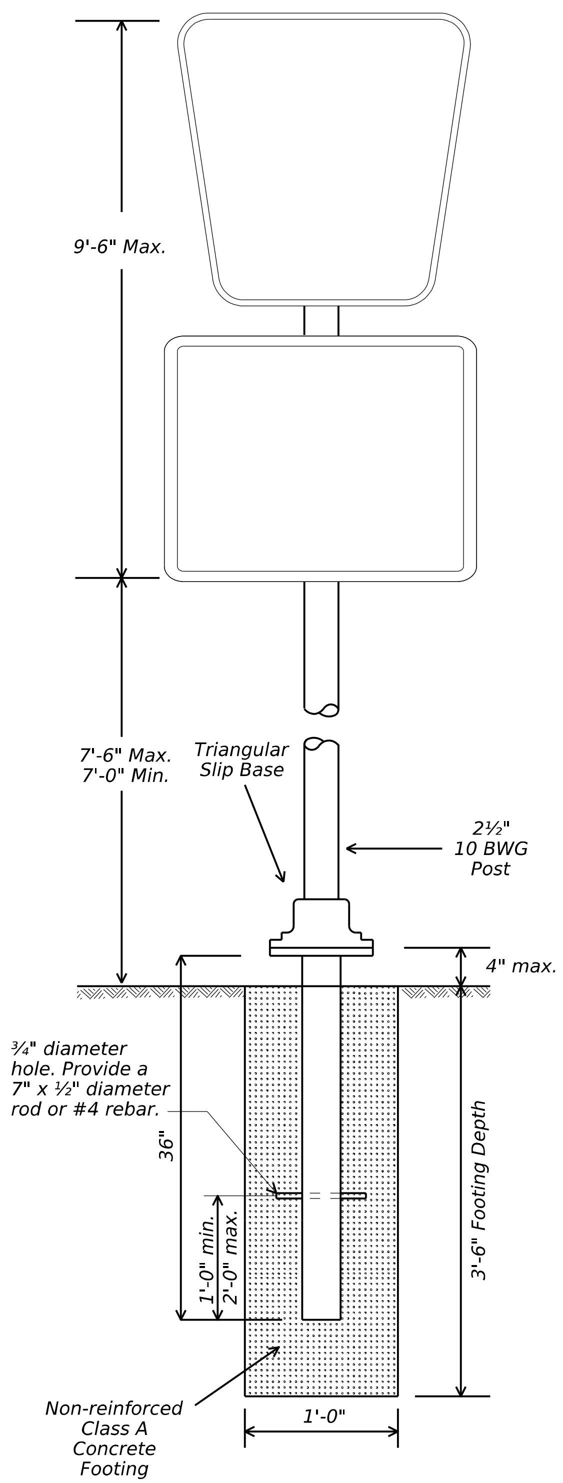
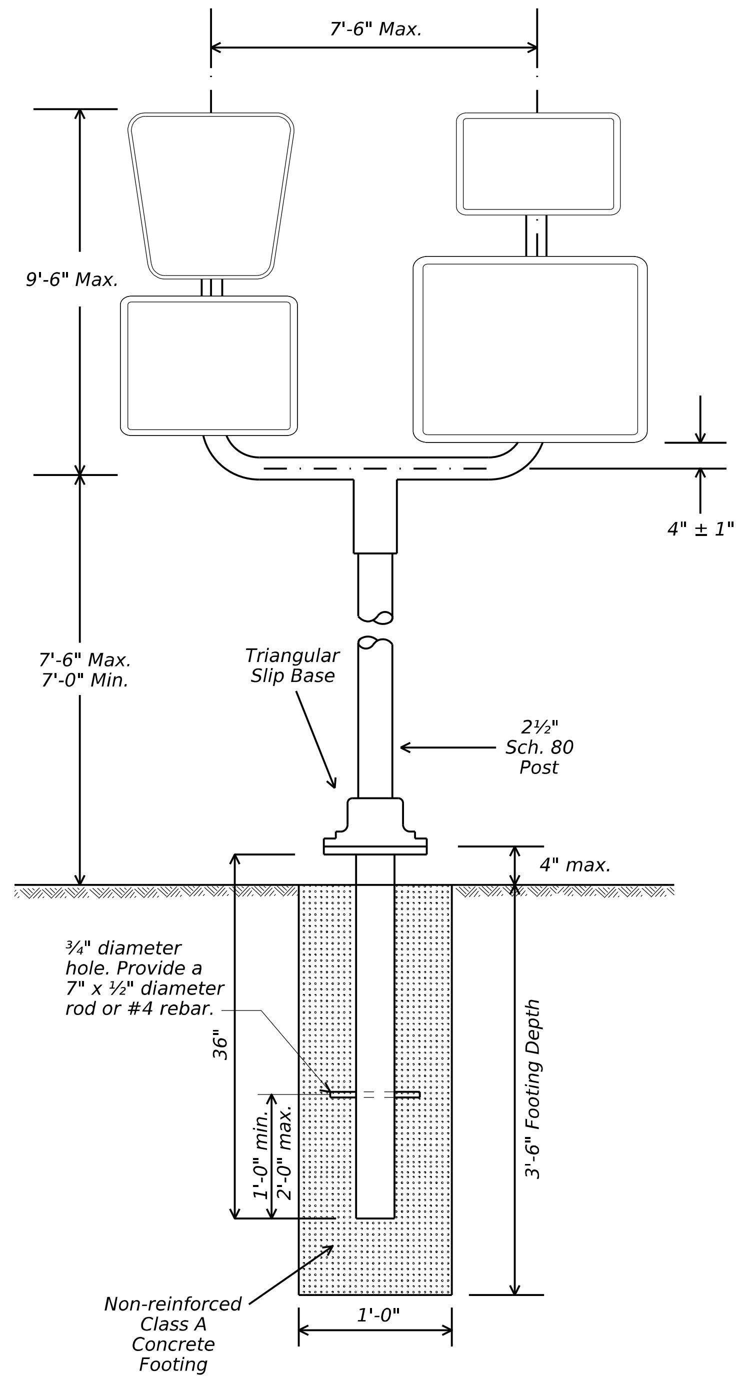
Option A
Single Post
Max. 16 sq.ft. of sign(s)



Triangular Slip Base or Other Approved Fittings

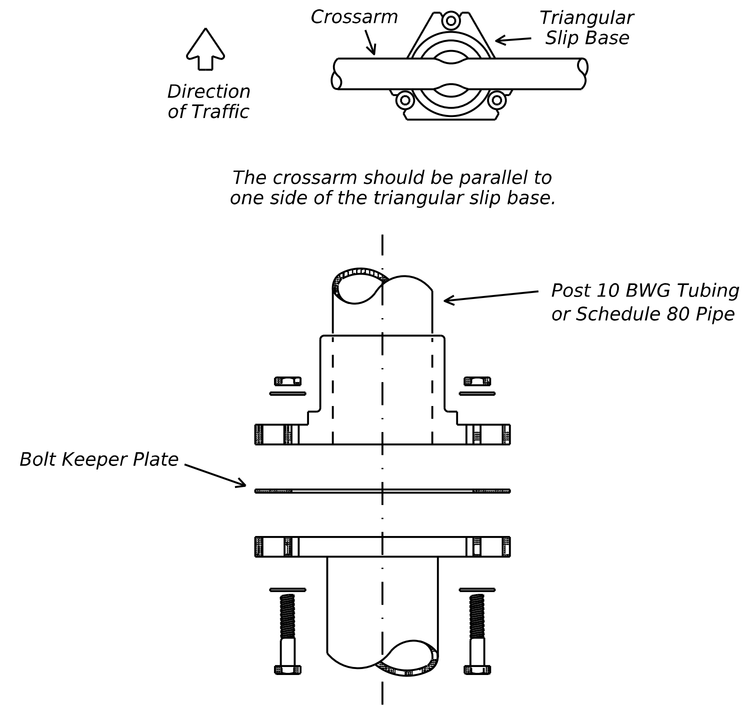
Option B
Single Post with Horn
Max. 32 sq.ft. of sign(s)



Triangular Slip Base

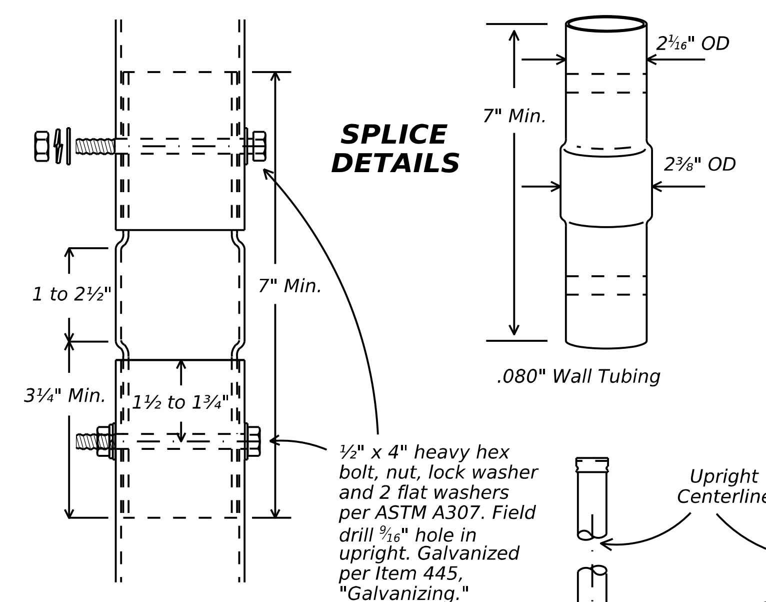
ALUMINUM SIGN BLANKS THICKNESS	
SQUARE FEET	MINIMUM THICKNESS
Less than 7.5	0.080"
7.5 to 15	0.100"
Greater than 15	0.125"

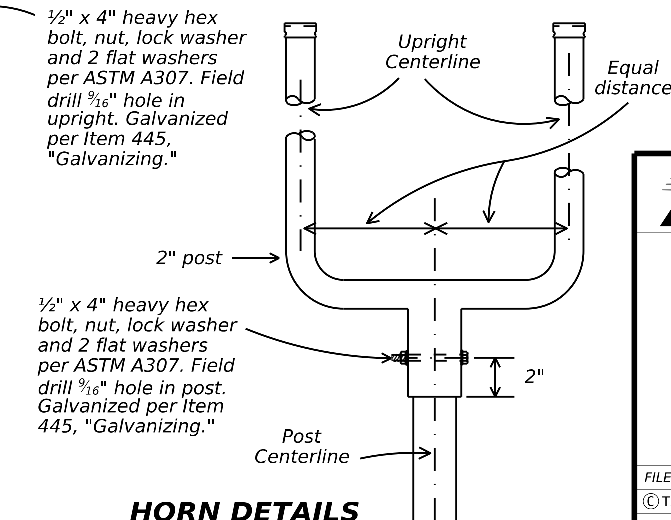
Texas Universal Triangular Slip Base



For additional information refer to SMD(SLIP-1)

SPLICE DETAILS





HORN DETAILS

GENERAL NOTES

OPTIONS A and B

1. A City Pride Sign shall not contain words, symbols, or messages that may be construed as advertising, including, but not limited to, the offering of products and services, notification of municipal ordinances or regulations, or resembling official traffic control devices.
2. Banners, flags, streamers, flashing lights, or other appurtenances shall not be attached to a City Pride Sign or sign supports.
3. City name, symbol, slogan or combination thereof may be direct apply or an attachment sign.
4. Direct apply and attachment signs may be any color or combination of colors and may be of any design or shape. Direct apply or attachment signs shall not be greater than 48 inches in width and 36 inches in height, and shall not consist of text, symbols, trademarks or a legend message identifying the name or abbreviation of a commercial establishment, service or product, or contain supplemental address or directional information such as meeting dates or locations.
5. A City Pride Sign shall not be illuminated internally or externally.
6. Support and design shall conform with the 1985 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals with a design wind speed of 60 mph.
7. Steel pipe sign supports shall be galvanized in accordance to ASTM A123.
8. The minimum sign height from the ground shall be 7 feet.
9. Where solid rock is encountered at ground level the foundation shall be a minimum depth of 18 inches. When solid rock is encountered below ground level the foundation shall extend into the solid rock a minimum depth of 18 inches or provide a minimum foundation depth of 30 inches. Only concrete foundations shall be used in rock.

OPTION C

Refer to SMD(CPS-2)

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN HARDWARE	DMS-7120
SIGN FACE MATERIALS	DMS-8300

SIGN SUPPORTS SHALL ONLY BE SPLICED BEHIND THE SIGN SUBSTRATE

Texas Department of Transportation

Traffic Safety Division Standard

CITY PRIDE SIGN

SMD(CPS-1)-23

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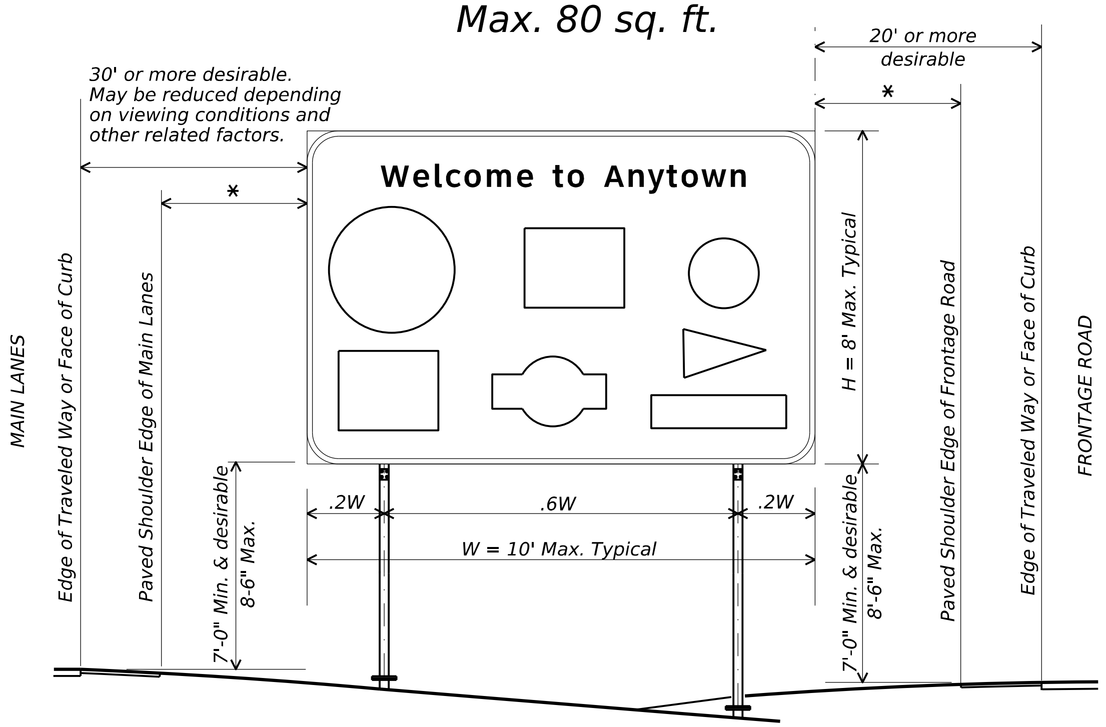
DATE:
FILE:

TYPICAL SIGN INSTALLATION AND LOCATION

Option C
Two Post/Solid Background
Max. 80 sq. ft.



LATERAL CLEARANCE NOTES:

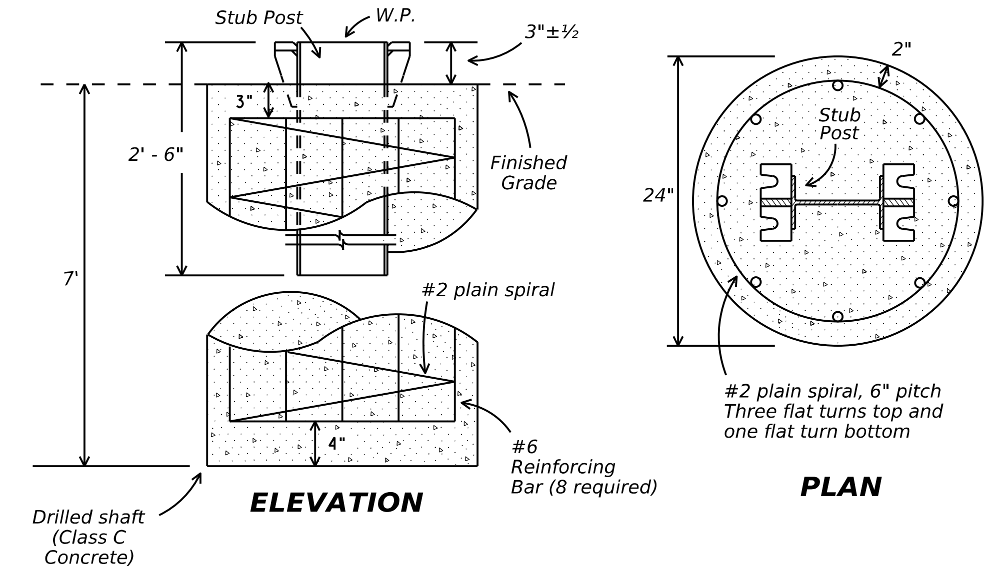
10. Lateral clearances of signs mounted on median side of main lanes are the same as shown, where space will permit.
11. Where a sign is to be located behind guardrail, an allowable minimum clearance of five feet may be used, measured from the face of the guardrail to the near edge of sign.
12. * 6' minimum and desirable may be used only in areas of limited lateral clearance and when approved by the Engineer.

POST SPACING NOTES:

13. Post spacing on a two post sign may vary a maximum of plus or minus 10% of total sign width to fit field conditions.

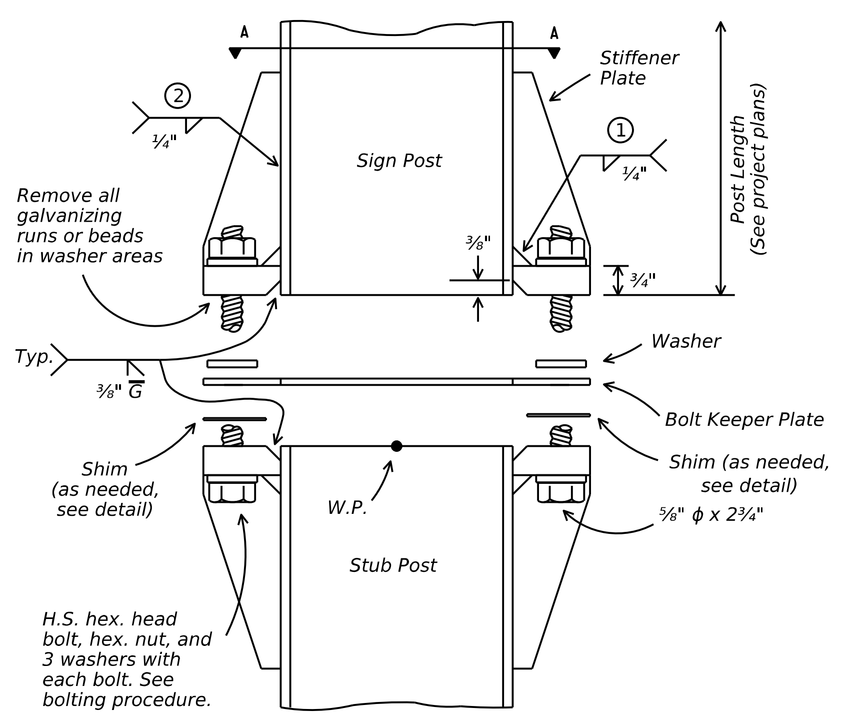
CITY PRIDE SIGN NOTES:

14. Typical maximum dimensions are 10 foot width by 8 foot height, however, TxDOT will consider other shapes and designs upon request. Maximum size of sign face shall not exceed 80 square feet.
15. Background shall be brown in color.
16. Optional City name, symbols, slogan or combination thereof may be direct apply, an attachment sign, or lettering on the sign face. Lettering may be any style or font, but shall not be greater than 8 inches in height. Lettering and or optional 2 inch border shall be white in color.



FOUNDATION DETAIL

DEPARTMENTAL MATERIAL SPECIFICATIONS	
SIGN HARDWARE	DMS-7120

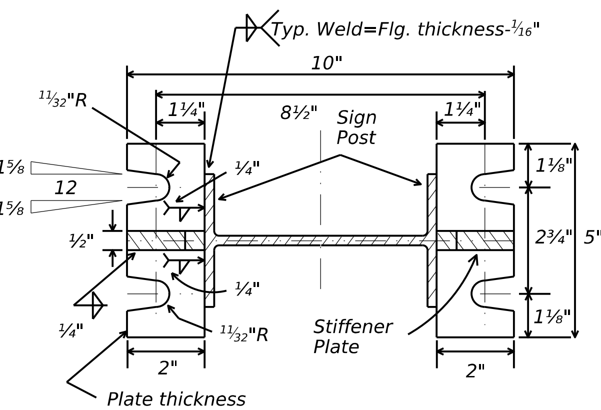


1 Back up weld to be made before installing stiffener plate

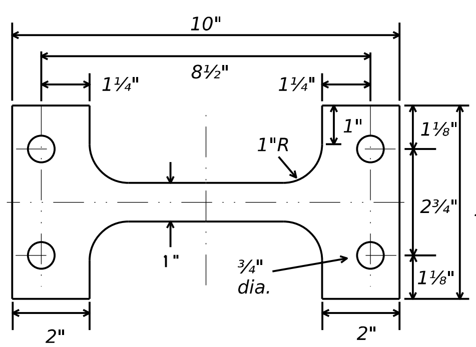
2 Weld W may be continued across clips to seal joint

W6x15
SIGN POST AND STUB POST

BOLTING PROCEDURE FOR ASSEMBLY OF BASE CONNECTION
1. Assemble sign post, bolt keeper plate, and stub post with bolts and three flat washers per bolt, as shown.
2. Shim as required, to plumb post.
3. Tighten all bolts to the maximum possible with a 12 to 15 inch wrench to clean bolt threads and to bed washers and shims.
4. Loosen each bolt in sequence and retighten bolts in a systematic order to the prescribed torque (440-450 inch pounds, 36-38 foot pounds). Do not overtighten.
5. To prevent nut loosening, burr threads of bolt at junction with nut using a center punch.

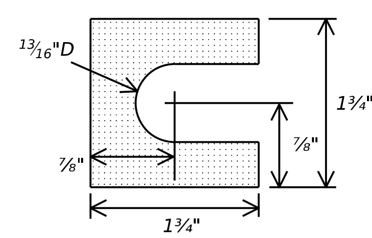


SECTION A-A



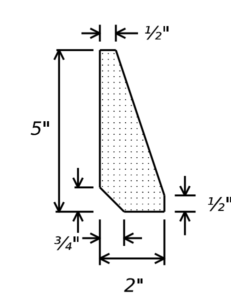
BOLT KEEPER PLATE

30 Ga galv. sheet steel



SHIM DETAIL

Shims shall be fabricated from brass shim stock or strip conforming to ASTM B36. Shims shall have a thickness of .012"± or .032"±.



STIFFENER PLATE DETAIL

Steel Plate (thickness = ½")

Texas Department of Transportation

Traffic Safety Division Standard

CITY PRIDE SIGN

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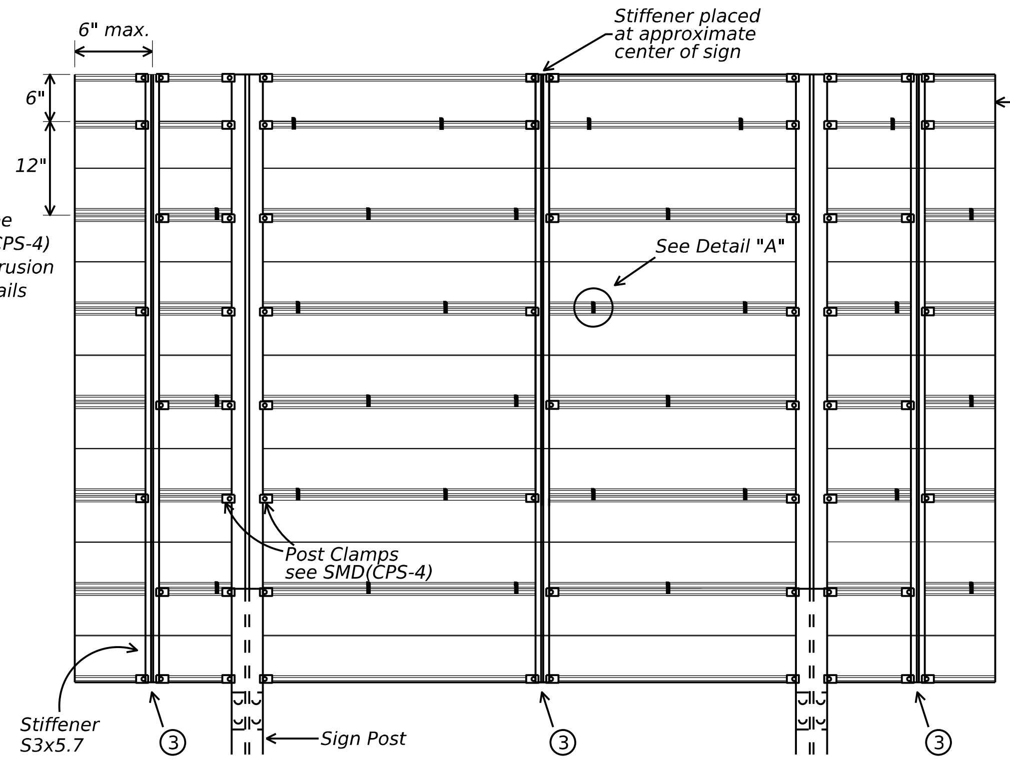
BASE CONNECTION ASSEMBLY - SIGN POST AND STUB POST

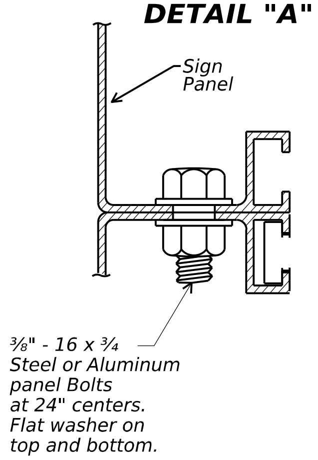
DATE:
FILE:

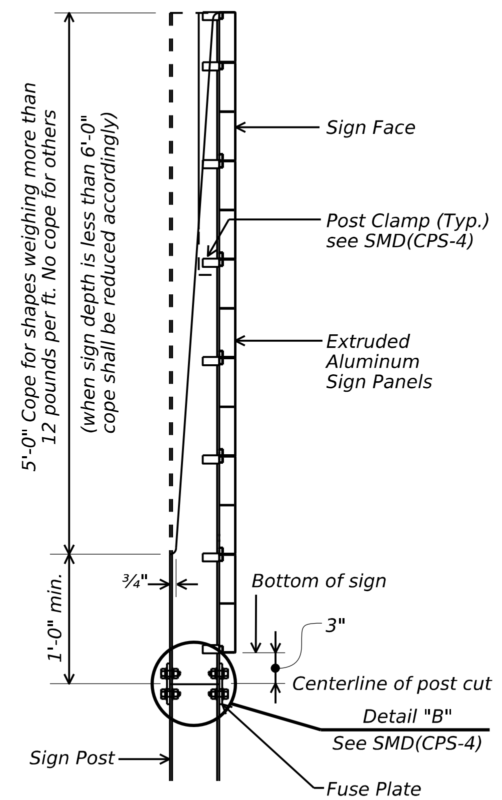
TYPICAL ALUMINUM SIGN ASSEMBLY DETAILS



REAR VIEW

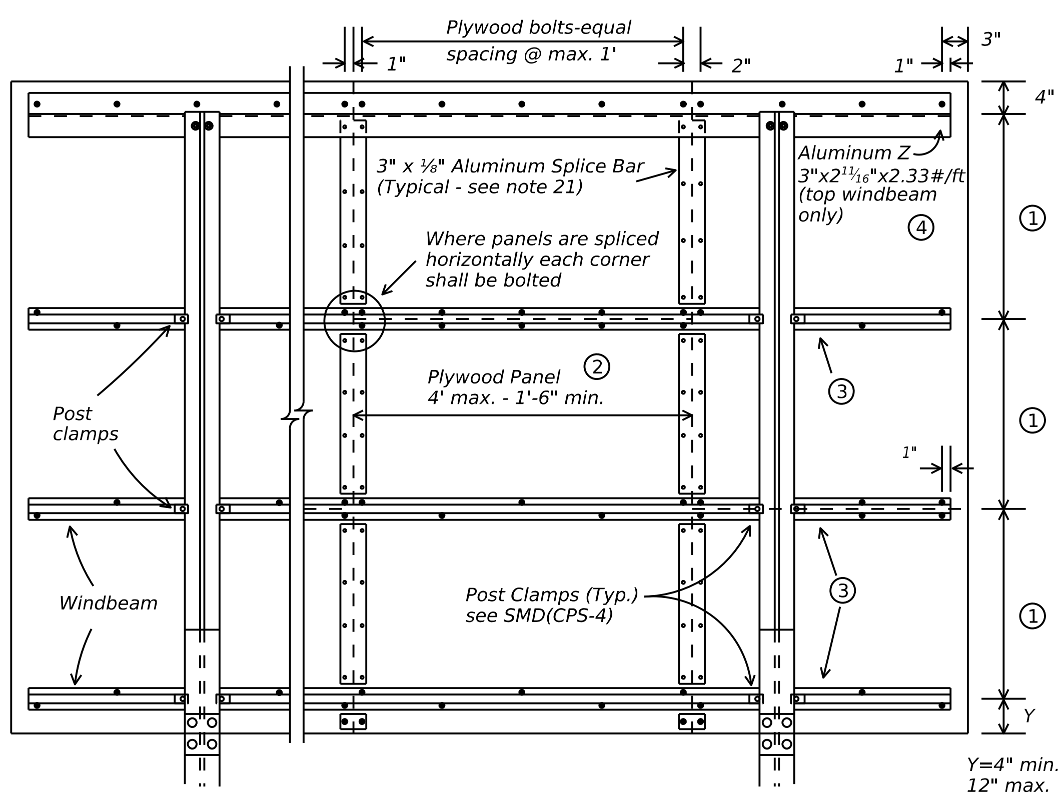
DETAIL "A"



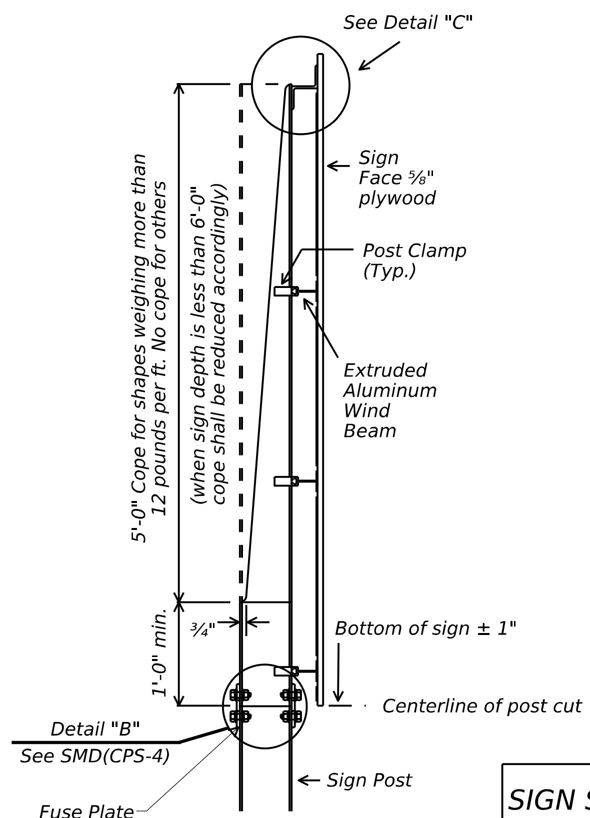


SIDE VIEW

TYPICAL PLYWOOD SIGN ASSEMBLY DETAILS



REAR VIEW



SIDE VIEW

GENERAL NOTES:

17. All bolts, nuts and washers shall be galvanized per ASTM Designation: B695 Class 50, or A153 Class C or D.
18. Posts and sign panels shall comply with notes on sheets SMD(CPS-2) and SMD(CPS-4).

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN HARDWARE	DMS-7120
SIGN FACE MATERIALS	DMS-8300

PLYWOOD ASSEMBLY NOTES:

19. A tolerance of plus or minus ¼ inch will be permitted in the plan dimensions for fabrication of each single increment sign panel when necessary for squaring. A tolerance of plus or minus ¼ inch will be permitted for each increment of a multi-increment sign panel where necessary to secure square, tight-fitting joints.
20. Plywood bolts shall be 5/16" x 1½" elevator type steel with flat or slightly hemispherical head and ¾" minimum thread length. The head shall have a minimum diameter of 11/16" and a minimum of two fins on the underside. Each bolt shall be provided with one 5/16" steel hex nut, one 5/16" steel flat washer, and one 5/16" steel lock washer. Bolts, nuts and washers shall be galvanized in accordance with ASTM Designation: B695, Class 50, or A153 Class C or D.
21. Splice bars shall be secured with ⅝" long x #10 round head, stainless steel wood screws spaced at 6" maximum along double row spacing with the exception at extreme ends of splice bars, along outside edge of sign, where plywood bolts shall be used as shown. A maximum of one horizontal joint per vertical section will be permitted using a ⅛" gap between panels.
22. Splices shall be kept to a minimum. Panels 4'x8' or larger shall be used to the maximum extent possible in the fabrication of any sign. Signs or sign sections which cannot be fabricated from at least a 4'x8' panel shall be of one piece construction.

DETAIL

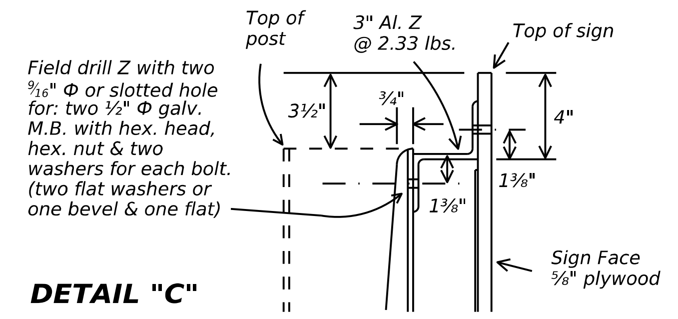
1. Approximately equal spacing, fabricator may vary spacing for least interference with message and to utilize wind beam for horizontal splice. Staggered arrangement of horizontal splices as shown is preferred. However, a single horizontal joint across the sign face is permissible.

   Wind beam spacing shall not exceed the maximum shown in the following table:

		Two Posts						
Wind Zone	Sign Width (W)	4' thru 12'	13'	14'	15'	16'	17'	18'
Zone 1	Max. Wind Beam Spacing	4'-0"	3'-8"	3'-4"	3'-0"	2'-8"	2'-4"	2'-0"
Zone 2	Max. Wind Beam Spacing	4'-0"					3'-9"	3'-6"
Zone 3	Max. Wind Beam Spacing	4'-0"						

   For additional information on wind zones refer to the standard Wind Velocity Worksheet.

2. For signs 4'-0" or less in height the plywood panel may exceed 4'-0" in width.
3. Extruded aluminum wind beams shall be continuous with no splices.
4. Aluminum Z will be provided unless stated otherwise in the plans. If noted elsewhere in the plans, 1.175 lb/ft extruded aluminum windbeam may be used.



DETAIL "C"

SIGN SUPPORTS SHALL ONLY BE SPLICED BEHIND THE SIGN SUBSTRATE

Texas Department of Transportation

Traffic Safety Division Standard

CITY PRIDE SIGN

SMD(CPS-3)-23

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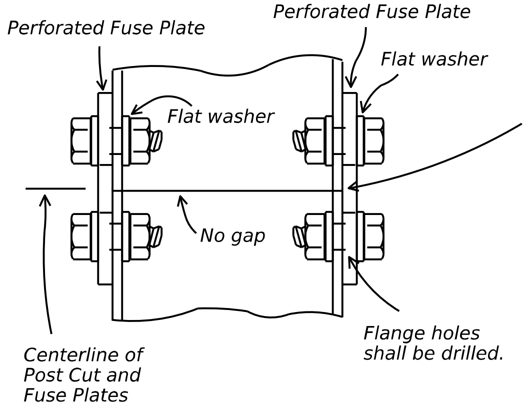
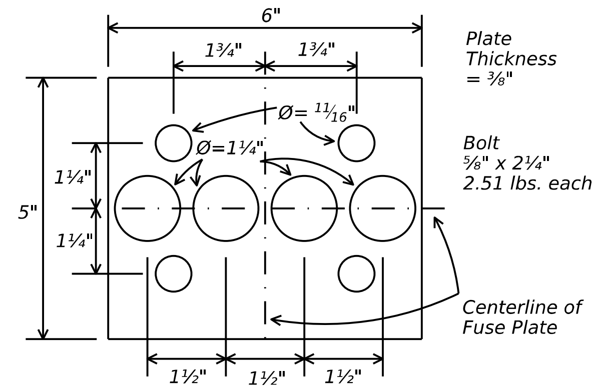
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

Parts shall be saw cut either before galvanizing and the galvanized cut cleaned of zinc build-up, or saw cut after galvanizing and the cut surface treated with zinc-based solder or zinc-rich paint in accordance with ASTM A780, as required per Item 445, "Galvanizing". (Cut surface will not be treated until plate is installed and all bolts fully tightened.)

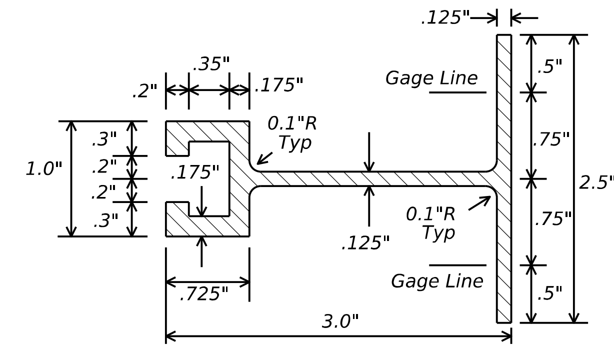


DETAIL "B"



PERFORATED FUSE PLATE DETAIL

Use H.S. hex head bolts, hex head nut and bevel or flat washer (where required) under nut. All holes shall be drilled. All plate cuts shall preferably be saw cuts. However, flame cutting will be permitted provided all edges are ground. Metal projecting beyond the plane of the plate face will not be permitted. Steel fuse plates shall conform to the requirements of ASTM A36. ASTM A572 Grade 50 or ASTM A588 may be substituted for A36 at the option of the fabricator. Mill test reports shall be submitted for Fuse Plates. Steel used shall have an ultimate tensile strength not to exceed 80 KSI.



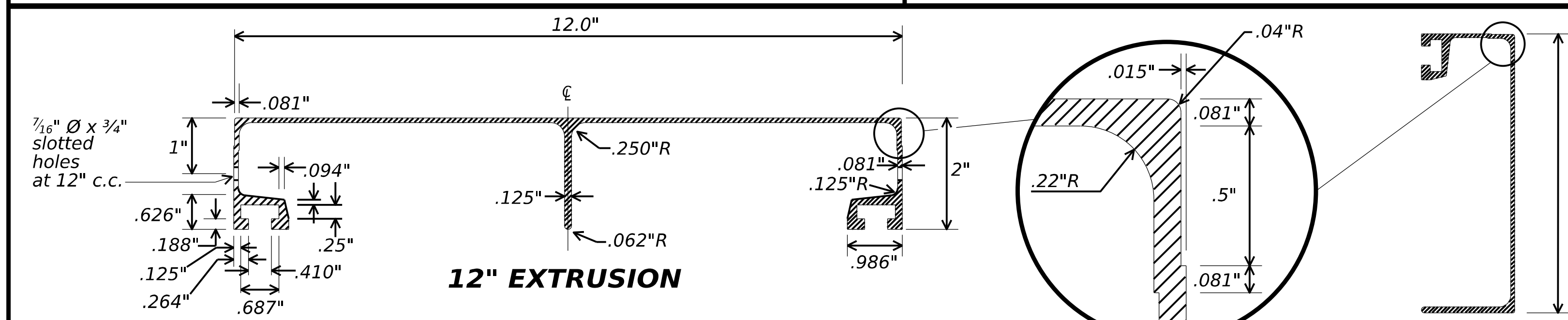
Windbeam to be extruded aluminum (1.175 lbs/ft)

WINDBEAM CROSS SECTION

GENERAL NOTES:

1. Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
2. Materials and fabrication shall conform to the requirements of the Departmental Material Specifications (DMS).
3. Structural steel shall be "low-alloy steel" for non-bridge structures per Item 442, "Metal For Structures."

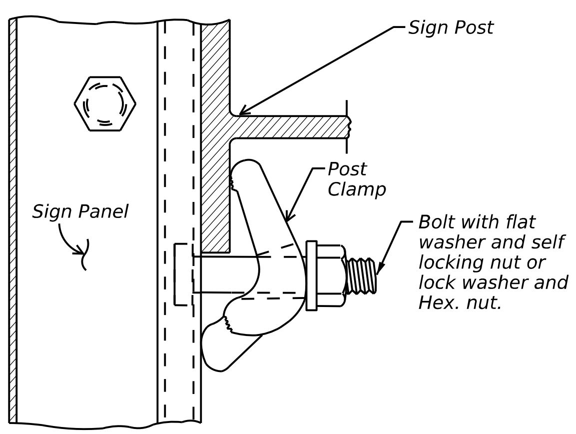
DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN HARDWARE	DMS-7120



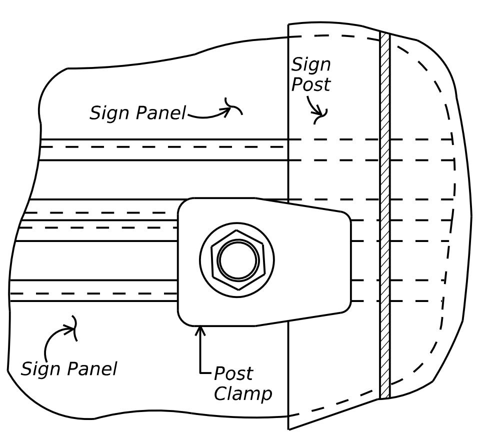
12" EXTRUSION

ALUMINUM SIGN PANEL

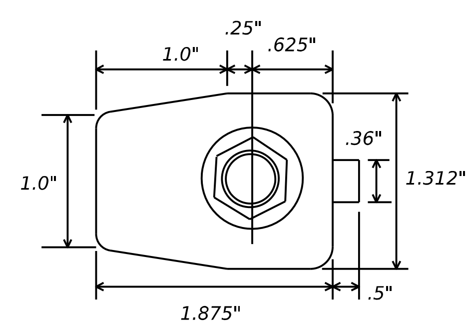
6" EXTRUSION



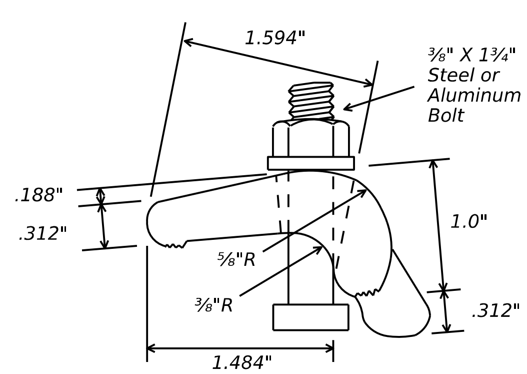
TOP VIEW OF POST



TOP VIEW OF CLAMP



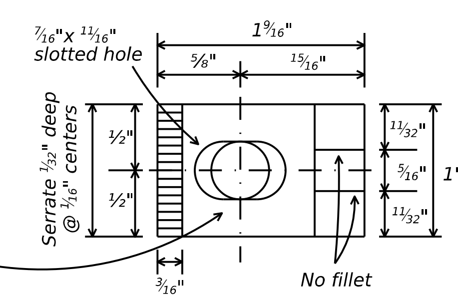
PLAN



ELEVATION

REGULAR POST CLAMP DETAIL

NOTE: Centerline of hole for ⅜" diameter square head bolt x 2 ¼" long with a flat washer and self-locking nut, or lock washer and hex nut. Bolt head dimensions shall be in accordance with ANSI B 18.2.1 as referred to in the AISC Steel Construction Manual. Bolt assembly shall be galvanized.

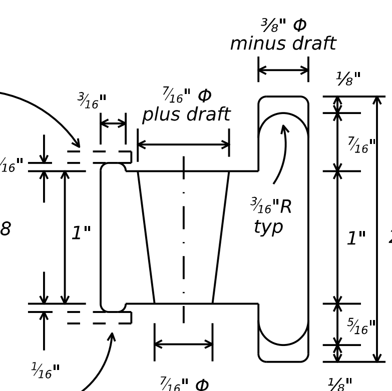


PLAN

Beam flange of W shapes: 7/16" leg of clamp toward W shapes 15 lbs/ft and greater.

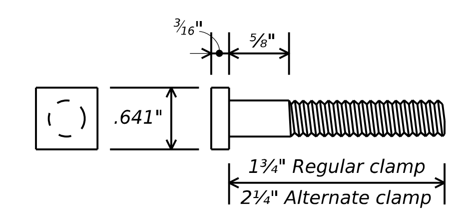
Post Clamp to be ASTM B26 or B108 cast Aluminum alloy 356.0-T6 (.173 lbs each)

Beam flange of W and S shapes: 5/16" leg of clamp toward W and S shapes 12 lbs/ft and less.



ELEVATION

ALTERNATE POST CLAMP DETAIL



POST CLAMP BOLT DETAIL

SHEET 4 OF 4

Texas Department of Transportation

Traffic Safety Division Standard

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