

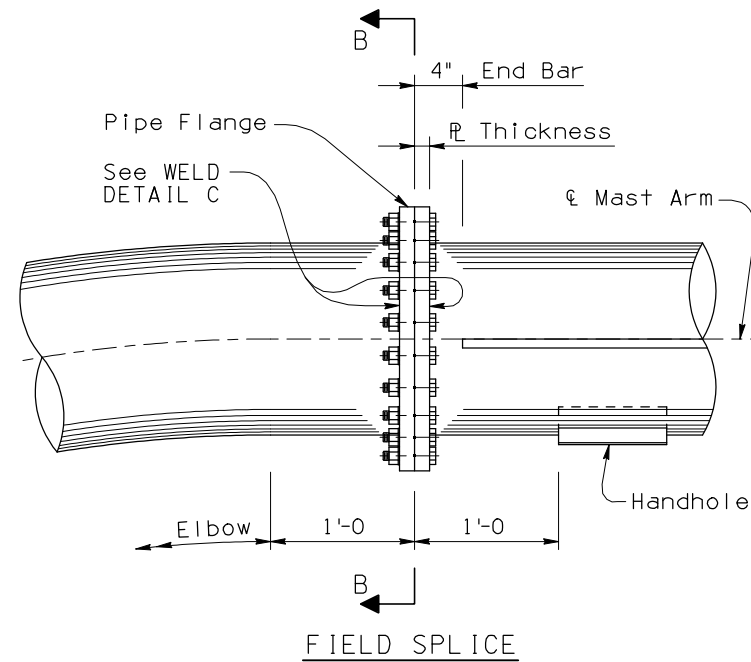
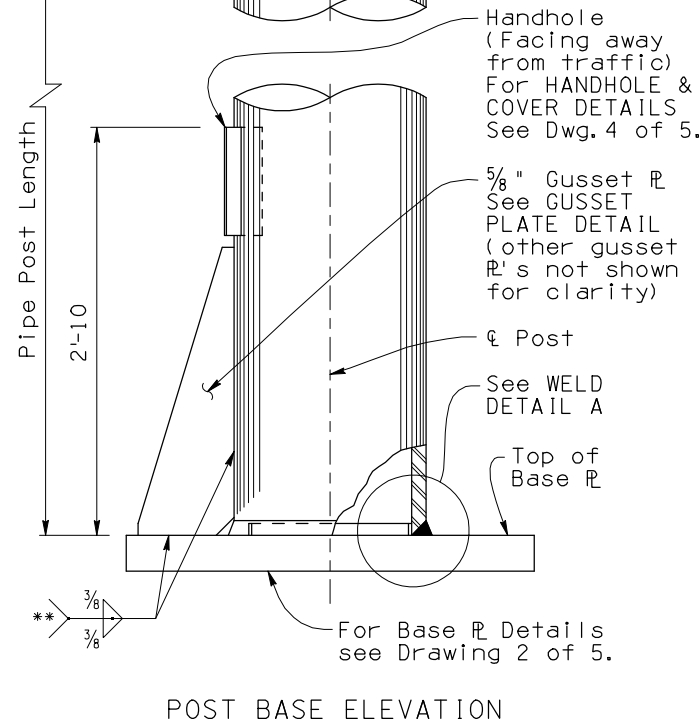
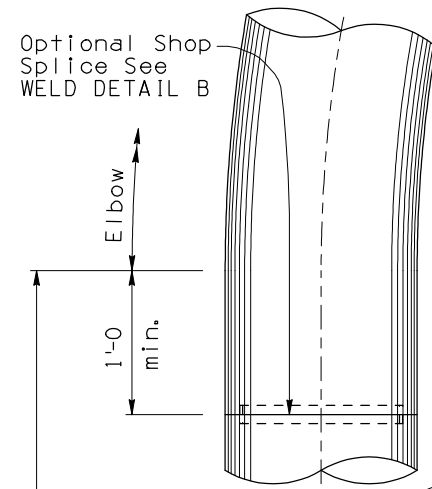
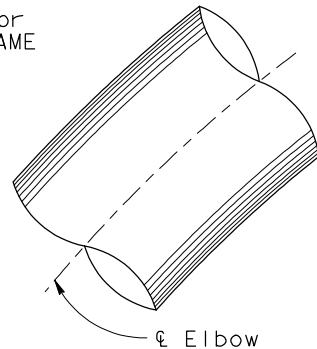
Note to Designer:
 The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO.	DESCRIPTION OF REVISIONS	DATE	MADE BY
1	Original Issue	6-01	U.R.P.
2	General Update	3-11	E.U.H.
3			
4			

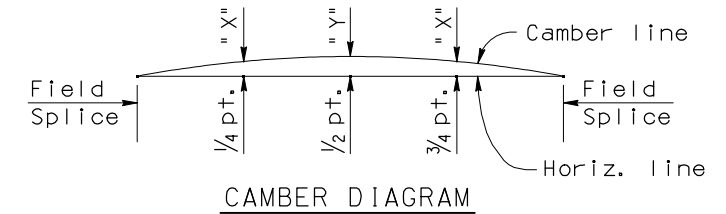
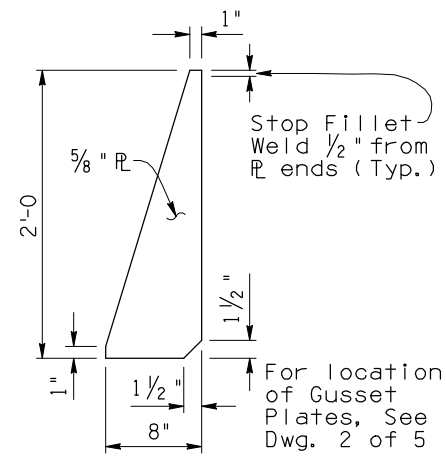
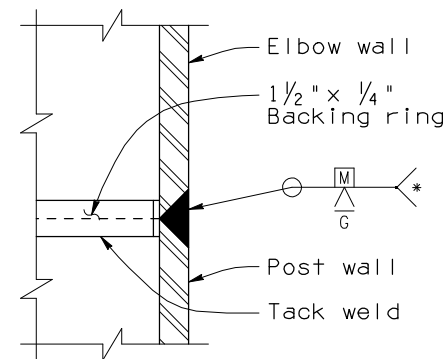
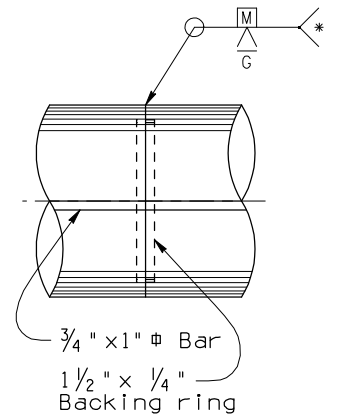
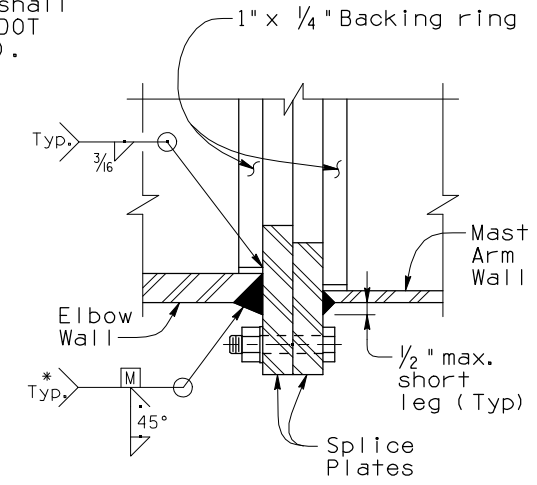
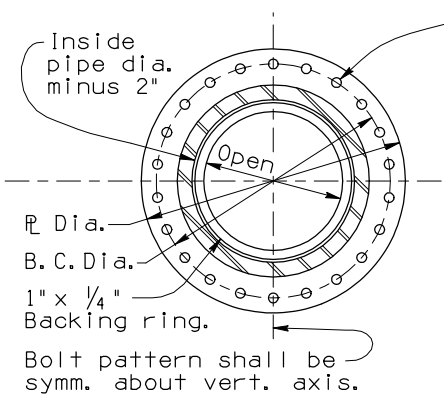
Field Splice					
Frame Type	Pipe Dia.	R Dia.	R Thickness	No. of Bolts	B. C. Dia.
1F	12"	18"	1"	16	15 1/2"
2F	16"	22"	1 1/4"	22	19 1/2"
3F	20"	26"	1 3/8"	29	23 1/2"
4F	22"	28"	1 1/2"	31	25 1/2"

NOTE:

Provide handholes for TUBULAR OVERHEAD FRAME on one side only. For HANDHOLE & COVER DETAILS See Dwg. 4 of 5.



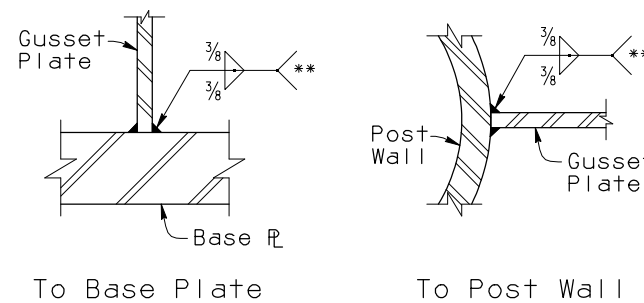
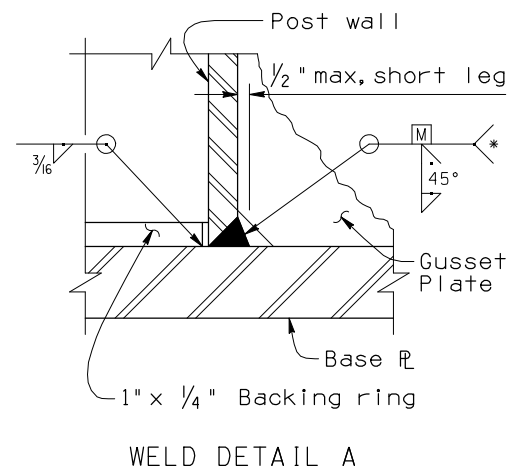
3/4" Φ ATSM A325 bolts equally spaced. Bolt hole dia. = 13/16". Torque bolts to a tension of 28K. All A325 bolts shall be installed in accordance with ADOT Standard Specification 604-2.03(c). See table for other details.



Camber shown is required to be built into horizontal members. Members shall be erected so that camber is provided above the Horizontal line.

TUBULAR FRAME CAMBER (INCHES)											
Frame Type	1F	1F	2F	2F	2F	3F	3F	3F	4F	4F	4F
Span	40'-0"	70'-0"	46'-0"	58'-0"	70'-0"	82'-0"	94'-0"	106'-0"	118'-0"	130'-0"	142'-0"
"X"	3/4"	2"	1/2"	1"	1 1/2"	1 3/4"	2 1/2"	3 1/2"	4"	6"	7 3/4"
"Y"	1 1/2"	2 1/2"	3/4"	1 1/4"	2"	2 1/4"	3 1/2"	4 3/4"	6"	8 1/4"	11 1/4"

Calculated camber provides for deflections due to dead load of tubular structure and dead loads due to sign panels and attachments. For spans other than shown, interpolate for "X" and "Y" dimensions.



* Preheat per AWS requirements.

** Stop Fillet Weld 1/2" from R ends.

DESIGN APPROVED <i>Shafi U. Hasan</i>		ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STRUCTURE DETAIL	
APPROVED FOR DISTRIBUTION <i>Teon A. Nehme</i>		TUBULAR SIGN STRUCTURES TUBULAR FRAME POST AND MAST ARM DETAILS	
ROUTE	PROJECT NO.	FA NO.	DRAWING NO. SD 9.20 (3 of 5)
LOCATION			SHEET NO. OF