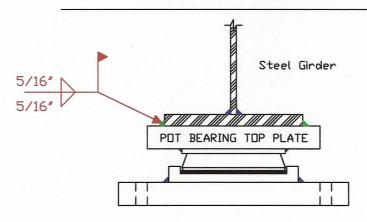
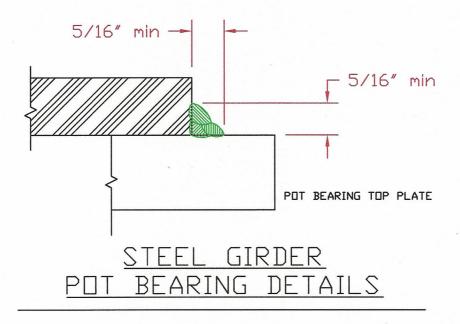
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STEEL GIRDER POT BEARING WELDING PROCEDURE SPECIFICATION (WPS) AWS D1.5

Specifications & Codes: NCDOT Standard Specifications/AASHTO/AWS D1.5, Section 2, 5 and 12							.5, Section 2, 5 and 12	
Material S	Specifications	:	AS	STM A-36, A	572, (A	709-36, 50),	(M270-GR250, 345)	Unlimited Thickness
Welding I	Process:	SMA	W	Manual or Semi- Automatic or Automatic: Manual				
Filler Metal Specification: NCDOT Approved Manufacturer: Electrodes			oved	Single or			E-7018 Position of Weld	– Flat, Horizontal
Welding Current: DC				olarity: Positive		sitive	Progression:	N/A
Root Treatment: N/A								
Preheat T	emp: <u>10</u>	0° minimun	<u>n</u>]	Interpass:	450°	maximum	Post Heat:	N/A
Pass Num.	Electrode Size	Welding C Amperes	urrent Volts	Travel Speed		Joint Details		
All	1/8" 5/32" 3/16"	90-150 120-200 170-280	20-23 21-24 21-24	6-9 ipm 6-10 ipm 6-11 ipm			SEE ATT	ACHMENT
PREHEAT Thickness Min. Temp. Up to 3/4" 100° Over 3/4" to 1 1/2" 100° Over 1 1/2" to 2 1/2" 150° Over 2 1/2" 225°			np.	COMMENTS: 1. Bearing Assemblies shall not be lifted by their top plates. Any handing shall support the bearing unit from the underside. 2. Bearings are to be protected from the dust during storage and erection. 3. Remove keeper straps after the bearing has been positioned at its permanent location and prior to erection of the superstructure. 4. When welding the top plate to the girder flange, use temperature indicating				
WPS Description		el Girder Po Bearing	ot	crayons or other suitable means to ensure that the bearing does not exceed 250°. 5. Do not permit welding current to pass through the interior parts of the bearing. Arcing may occur which can permanently damage the bearing. 6. Disassembly of the bearing unit is not permitted without written consent from the manufacturer. Unauthorized disassembly could result in bearing failure. 7. The Contractor shall rotate the top plates of the bearing so that the alignment is parallel to the center line of the girder. Written By: Randy Dempsey, CWI/CWE, TT IV				
				Signature:				
WPS #: 022811017				Authorized By: Steve Walton, Metals Engineer				
Revision #: 1				Signature:	Stather			

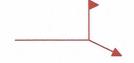
NCDOT MATERIALS & TESTS UNIT (STEEL SECTION)

WPS STEEL GIRDER POT BEARING 022811017 R1 JOINT DETAIL ATTACHMENT

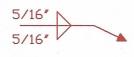




Weld Symbol definitions per AWS A2.4:2007



FIELD WELD SYMBOL



FILLET WELD, BOTH SIDES with WELD SIZE

Illustrations for Pot Bearing.



As Received



Installed

NCDOT MATERIALS & TESTS UNIT (STEEL SECTION)