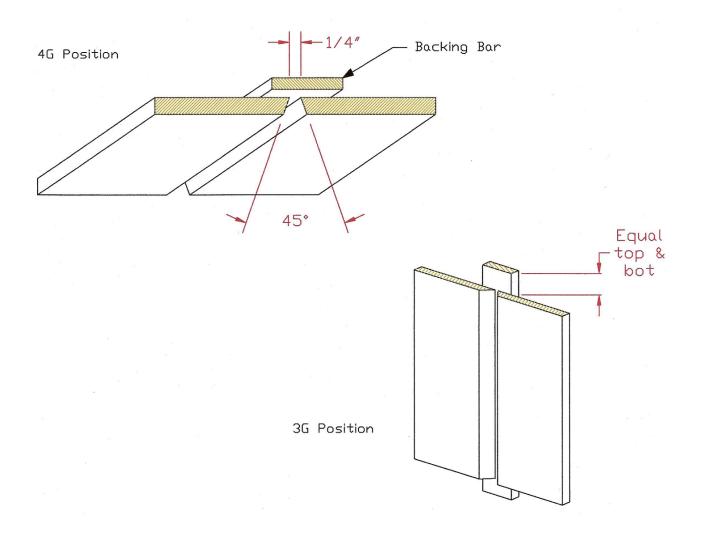
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 3G-4G PLATE CERTIFICATION TEST (BRIDGE WELDER - LIMITED) WELDING PROCEDURE SPECIFICATION (WPS) AWS D1.5

| Specifications & Codes: | | | NCDOT Standard Specifications/AASHTO/AWS D1.5 | | | | | |
|--|-------------------|-----------------------|---|---|----------|--|-------------------------|--|
| Material Specifications: | | | | | ASTM A-3 | 36, 3/8" THICK | | |
| Welding Process: SMA | | | IAW | Manual or Semi- Automatic or Automatic: | | | Manual | |
| Filler Metal Specification: | | | AWS A5.1 | Classif | ication: | E-7018 Position of | - | |
| Manufacturer: Made in the USA | | | | le Pass | Multiple | Weld | Vertical & Overhead | |
| Welding Current: | | DC | Polarity: | Positive | | Progression: | Vertical - up | |
| Root Treatment: N/A | | | | | | | | |
| Preheat Temp: 50° minin | | minimum ' | Interpass: 450° ma | | naximum | Post Heat: | N/A | |
| Pass Num. | Electrode Size | Welding Amperes | Current Volts | Travel Speed | | Joint Details | | |
| All All | 3/32" 1/8" | 70 - 110 90 - 140 | Ampere Controlled | 4–11 ipm 4–11 ipm | | SEE ATTACHMENT | | |
| | | | | | | | | |
| PREHEAT Thickness Min. Tem Up to 3/4" 50° | | Min. Temp. | The Rem | COMMENTS: The backing bar must be in close contact with the test material. Remove all rust and mill scale within one inch of the area to be welded prior to fit-up. Remove all slag and spatter between passes. Clean the completed weld of all debris, slag, and spatter. | | | | |
| Fill the groove to the full cross section of the member. | | | | | | | | |
| | | -4G Plate ication Tes | | | Michae | Michael Pulley, CWI, Metals Products Speci | | |
| | | | Signa | ature: | Mic | chael Pulle | Date: 11/04/2021 | |
| WPS #:0 | | 0209009 | Authorized By: | | Randy | Randy Porter, CWI, Metals Engineer | | |
| Revision #: | | 4 | Signature: | | | | | |
| Revision [| Date:11 | /04/2021 | | | St | ephen R Por | ter Date: 11/04/2021 | |

WPS 3G-4G PLATE CERTIFICATION TEST 040209009 R4 JOINT DETAIL ATTACHMENT



3G - 4G Groove Weld Joint Details

Weld Symbol definitions per AWS A2.4:2007



Illustrations for Plate Weld Tests

Unacceptable Weld



