

# Highway Safety Corporation

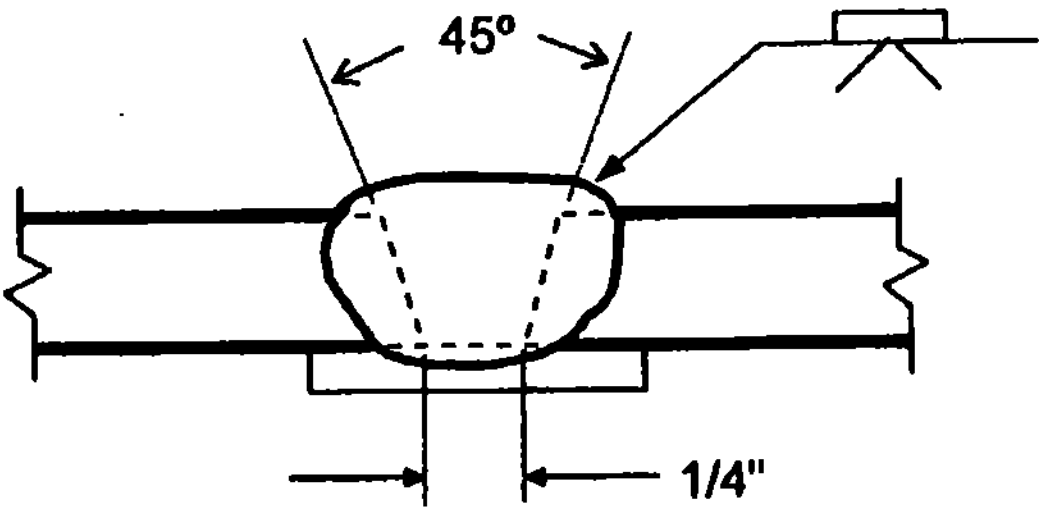
Glastonbury, CT

## Welding Procedure Specification

BRIDGE  
RAILING 06

Material specification ASTM A500 gr B  
 Welding process Gas Metal Arc Welding (GMAW)  
 Manual, semi-automatic, or automatic Semi-Automatic  
 Position of welding Flat (1F) or Horizontal (2F)  
 Filler metal specification AWS A5.18  
 Filler metal classification ER70S-3  
 Electrode and manufacturer Lincoln Electric Lincoln Weld L-50  
 Flux and manufacturer N/A  
 Shielding gas 85% Argon / 15% CO2 Flow rate 19-27 L / min  
 Single or multiple pass Single  
 Single or multiple arc Single  
 Welding current DCEP  
 Polarity Reverse - electrode positive  
 Welding progression Stringers  
 Root treatment clean base metal  
 Preheat and interpass temperature base metal up to 3/4" (50°F)  
 Postheat treatment None  
 Electrode extension 3/4" ± 1/4"

### WELDING PROCEDURE

Weld size	Pass no.	Electrode size	Welding parameters		Travel speed	Joint detail
			Amperes	Volts		
	1	0.045"	300 A ± 30	29 V ± 2	14 lpm ± 2	B-U2a 
TRANS RECEIVED CK'D BY _____ OK'D BY JWC JUL 22 2010 RESUBMIT _____ APPROVED ✓ BY _____ DATE 7-29-10						

This procedure may vary due to fabrication sequence, fit-up, pass size, etc. within the limitation of variables given in section 5 of latest edition AWS D1.1

WPS no. W-1769A  
 Revision no. 0  
 Supporting PQR no. Pre-Qualified  
 Project Name Readsboro, VT

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