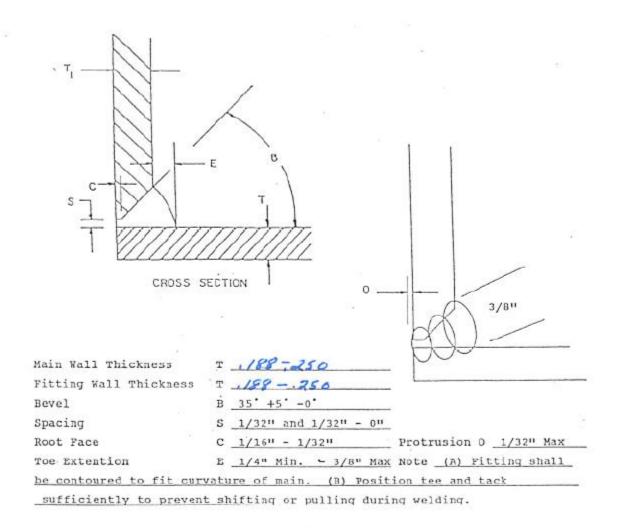
CONSTRUCTION: JOINING OF PIPES BY WELDING

A.	Process: Manual Electric Arc									
В.	Material: 2 3/8 thru 12-inch header X 1-inch thru 4-inch branch									
C.	Diameter and Wall Thickness: 0.188 WT thru 0.500 WT									
D.	Joint Design: Standard Vee Groove 35 degrees									
E.	Filler Metal and Number of Beads: Electrode Classification Electrode E6010 & E8010									
	AWS Class A Minimum of 3 Passes									
F.	Electrical or Flame Characteristics: D.C. Reverse Polarity, Electrode Positive									
G.	Position: N/A									
Н.	Direction of Welding: N/A									
I.	Number of Welders: 1									
J.	Time Lapse Between Passes: Maximum of 5 minutes between stringer and hot pass; 3									
	minutes maximum when temperature is below 35° F									
Κ.	Type of Line-up Clamp: None									
L.	Removal of Line-up Clamp: N/A									
M.	Cleaning: Taper grind starts and craters and flatten crown by grinding stringer bead,									
N.I	power buff all remaining passes									
N.	Speed of Travel: String bead 10 inches per minute maximum									
Ο.	*Preheat, Stress Relief: Maximum of 300°F, Minimum of 150°F Preheating shall be done with device or equipment which will heat entire circumference(s) in single									
	application 2" back from pipe ends									
Р.	Notes: Welded pipe strings shall be temporarily capped to prevent air draft cooling of									
	stringer beads. Weld shall be completely protected from moisture until it has cooled t									
	ambient temperature. Weld zone shall be protected so that the wind velocity near it									
	does not exceed 8mph.									
*	X-rated pipe must be stress relief if the carbon content exceeds 32% or C+1/4 Mn									
	exceeds 65%. Heating of X-rated pipe is limited to 600°F.									

CONSTRUCTION: JOINING OF PIPES BY WELDING



Bead	Ele	ectrode	Ampera	ge	Voltage	•			
No.			Range Rai		Range	e Type Rod			Notes
1	1/8		90-120		25-33		E6010 5	P+	_
2	1/8		94-120		26-34		E8010		
3	5/32		110-145		22-30		E8010		
4	5/32		95-120		22-30		E8010		
5						_			

Bead No.		Notes								
	Electrodes may be substituted within rod group 1&2 of AWS A5.1-A5.5									
	* If another pass is needed same amps and volts as pass #4									

CONSTRUCTION: JOINING OF PIPES BY WELDING

	D TEST RE	PORT			ATE FORM FOR E	ACH WELDING	ROCEDURE)					
ATE			WELDER'S NAM		///			SOCIAL SECURI	_	ER		
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POSITION ELECTRIC ARC INDOORS						WEATHER	TEMPERATURE	TIME OF DAY		WIND BREAK	WSED	
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NPE WELD	HOT PASS	18 70	+ 4	w	120-190	60	94-12	20 26-31				
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