



## Gas Metal Arc Welding (Flat and Horizontal)

### Project 6 – Specification and Print

<b>Weld Type</b>	Vee Groove Weld
<b>Welding Process</b>	GMAW
<b>Position</b>	Horizontal
<b>Material</b>	1/4" Steel
<b>Joint Type</b>	Butt
<b>Backing Option</b>	CJP
<b>Backing Material</b>	

<b>Polarity</b>	DC+
<b>Electrode</b>	ER70s-6
<b>Transfer Mode</b>	Short Circuit Transfer
<b>Tungsten Electrode</b>	
<b>Shielding Gas</b>	75% Argon/25% CO2
<b>Flow Rate</b>	25 cfh
<b>Cup Size</b>	

Welding Procedure									
Weld Layers	Pass No.	Process	Filler Metal Classification	Filler Metal Diameter in (mm)	Current Amps	Current Type and Polarity	Wire Feed Speed	Volts	Remarks
Stringer	Butt	GMAW	ER-70s-6	.035"		DC+	40	5.5	





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#### **Heat Treatment:**

**Preheat Temperature:**

**Post Heat Temperature:**

**Interpass Temperature:** Quench between passes

**Stress Relieving:**

**Technique:** Butt Joint filled with stringer beads till just over flush

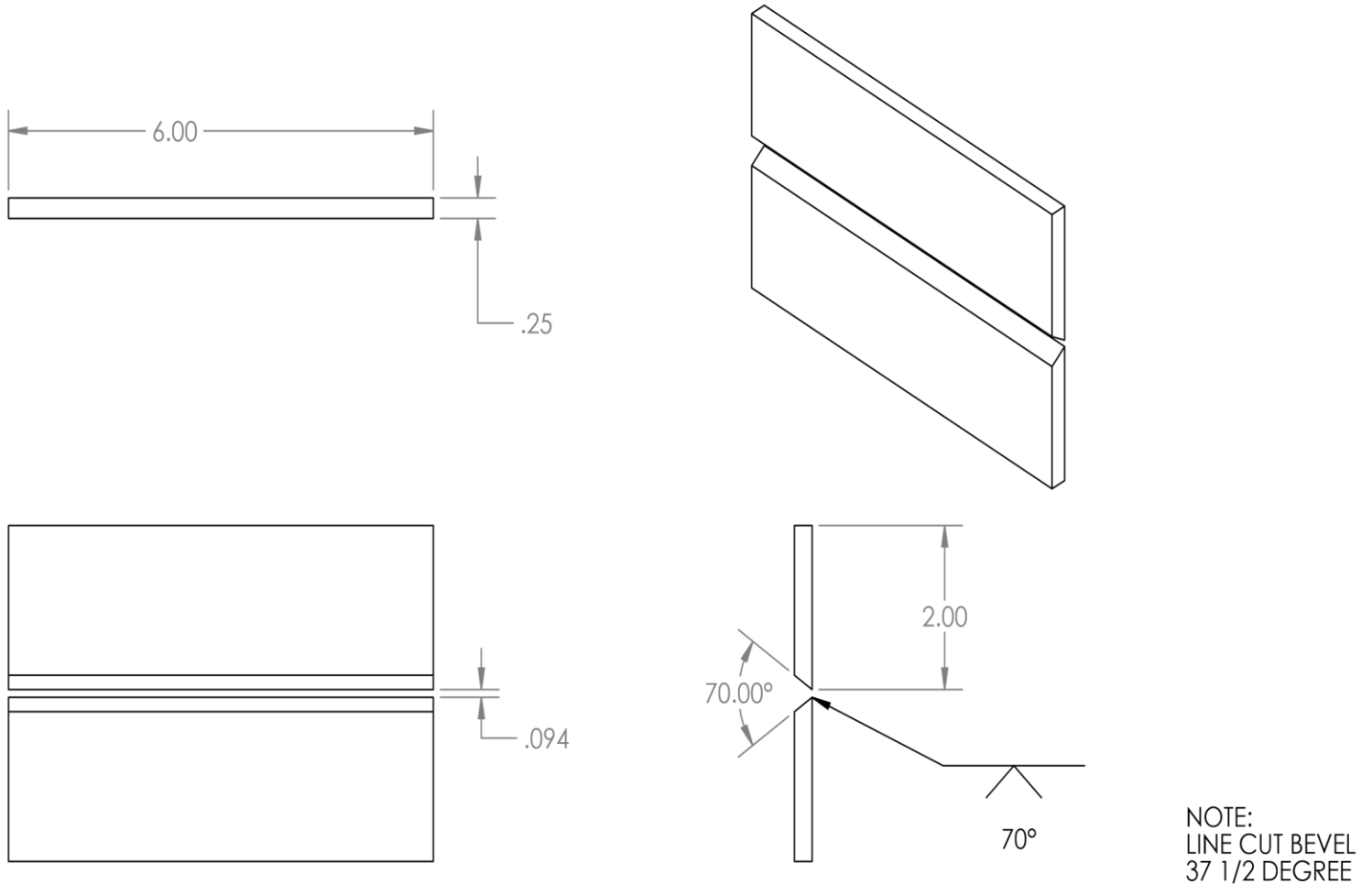
**Additional Notes:** Show instructor progress every 30 minutes minimum.





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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <b>CIMWD-130 Project 6</b>	
		DIMENSIONS ARE IN INCHES		DRAWN	J.SIBERT		4/2/15
		TOLERANCES:		CHECKED			
		FRACTIONAL ±		ENG APPR.			
		ANGULAR: MACH ± BEND ±		MFG APPR.			
		TWO PLACE DECIMAL ±		Q.A.			
		THREE PLACE DECIMAL ±		COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				SIZE DWG. NO. REV	
		MATERIAL				<b>A PART 10.2 0</b>	
		FINISH				SCALE: 1:2 WEIGHT: SHEET 1 OF 1	
		DO NOT SCALE DRAWING					

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