

US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE

10/05/2015

VERSION

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Shielded Metal Arc Welding (Vertical Welding)

PRIMARY DEVELOPER: Kevin Ridge, Welding Instructor, Henry Ford College

Project 4 - Specification and Print

Weld Type	Vee Groove Weld
Welding Process	SMAW
Position	Vertical
Material	1/4" Steel
Joint Type	Butt
Backing Option	CJP
Backing Material	

Polarity	DC+					
Electrode	E6010 3/32 and E7018 3/32					
Transfer Mode						
Tungsten Electrode						
Shielding Gas						
Flow Rate						
Cup Size						

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	Root	SMAW	E6010	3/32	50	DC+						
	Fill	SMAW	E7018	3/32	70	u						
	Cover	SMAW	E7018	3/32	70	и						







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Heat Treatment:

Preheat Temperature:

Post Heat Temperature:

Interpass Temperature: Quench between passes

Stress Relieving:

Technique: Root Pass using E6010 for CJP. Grind root on face side smooth. Fill and cover using E7018

with a stringer or weave in vertical up position.

Number of Electrodes:

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







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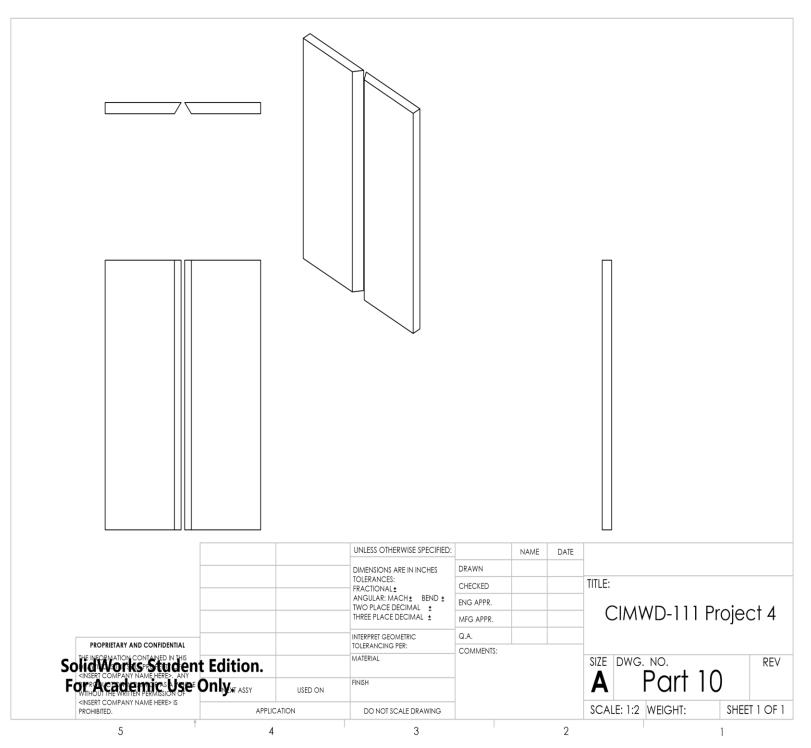
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