



2026 WELDING COMPETITION

Thursday, March 5th, 2026

**College of Western Idaho
Nampa Micron Education Center
Welding Lab 1, NMEC 134**

**5725 E. Franklin Road
Nampa, ID 83687**

Orientation: 8:00 am

Project layout will be conducted at mandatory pre-contest orientation briefing.

Come prepared; that includes appropriate PPE (shoes) for handling test plates.

SUPPLIED BY THE TECHNICAL COMMITTEE

- All necessary welding equipment, filler metals, and base materials
- All instructions, Welding Procedure Specifications (WPS), and prints

CONTESTANT SUPPLIED TOOL LIST REQUIRED ITEMS

- Hearing and/or ear protection
- Welding gloves — full length (gauntlet) for SMAW and FCAW
- Welding gloves — appropriate for GTAW
- Welding cap/beanie
- Welding helmet with appropriate filter plate/lens and protective cover lens for tacking and welding; auto darkening filter plate/lens permissible. Spare filter plate and cover lens.
- Angle grinder, suitable for beveling steel plate.
- Pocket flashlight
- Fillet weld gauge — standard set
- Lead pencil and/or ballpoint pen
- Soapstone with or without holder or silver streak pencil, sharpie marker, paint marker
- Scribe without magnet
- Either: Combination square set or speed square
- 10-foot (3.1 meters) minimum steel tape measure
- 16-ounce (.45 kilogram) ball peen hammer (Not a claw hammer)
- Center punch
- Cold chisel
- Either: 11R or 10-inch (254 millimeters) vise grips
- Either: 6-inch (152 millimeters) side cutting pliers or diagonal cutting pliers
- 6-inch (152 millimeters) needle nose pliers – welpers are permitted
- Chipping hammer
- Carbon steel wire brush or wheel
- Stainless steel wire brush or wheel
- **RESUME; ONE PAGE – TYPED OR PRINTED – MUST be turned in at orientation meeting. Resumes must have contestant ID number added on the resume. Resumes turned in after orientation will not be scored.**

OPTIONAL ITEMS

- Weld fume mask or respirator

REMINDER: All test plates, filler metals and welding equipment will be supplied by the welding committee.

Resumes:

Resumes may be in any format, as long as, they are recognizable as a format. The most common point deductions are formatting errors.

- Single page only
- **Please omit contestant names.**
- Use “**Contestant # _____**” and write your contestant number on the line when you receive it at SLSC registration.
- To preserve contestants’ personal information please use a fictitious address, for example: **6011 WELD LANE, SPARKS IDAHO, 837018**
- Include a Professional Summary/Objective
- Include education
- Include experience
- Include Skills / Certifications

Welding Projects:

Contestants are responsible for legibly marking their projects. If the judges can not clearly identify the contestant number on any project the entire project will not be scored.

Scoring will begin once the first round of projects is completed. Contestants, advisors, and observers will not be allowed to communicate with or impede the judges.

Each contestant will complete their project according to the following sequence:

- Using the drawings gather all the required material and get approval for a judge.
- Prep the carbon steel bevel(s) with a hand grinder and layout weldment.
- Weld the Carbon project using **FCAW** in accordance with the drawing.
- Weld the Carbon project using **SMAW** in accordance with the drawing.
- Weld the Aluminum project using **GTAW** in accordance with the drawing.

Contestants will have 120 minutes to complete their projects. Contestants will be assigned times and welding stations once the contest chairs have received the contestant numbers.

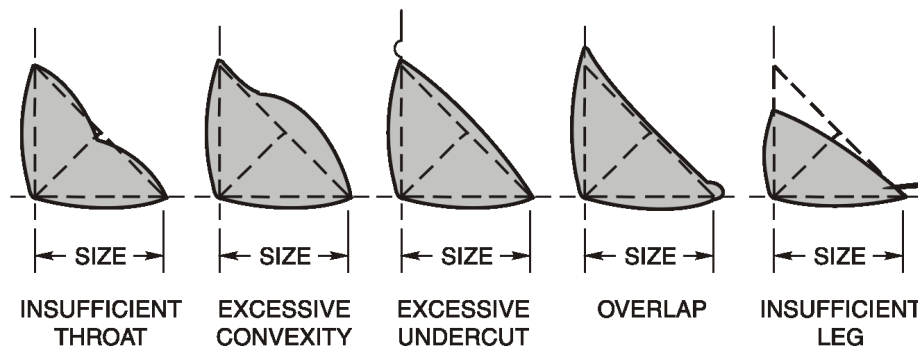
Contestants and observers only will be allowed in the welding lab on the day of the competition. Contestants, observers and advisors are allowed during the orientation.

Reminder: We will be guests of the College of Western Idaho, all contestants, advisors and observers are expected to move quietly and efficiently through the facility and are asked not to disrupt normal classes in any way. No tobacco or vaping products are

allowed on this campus. Contestants found using these products will be in violation of contest site rules and will be disqualified.

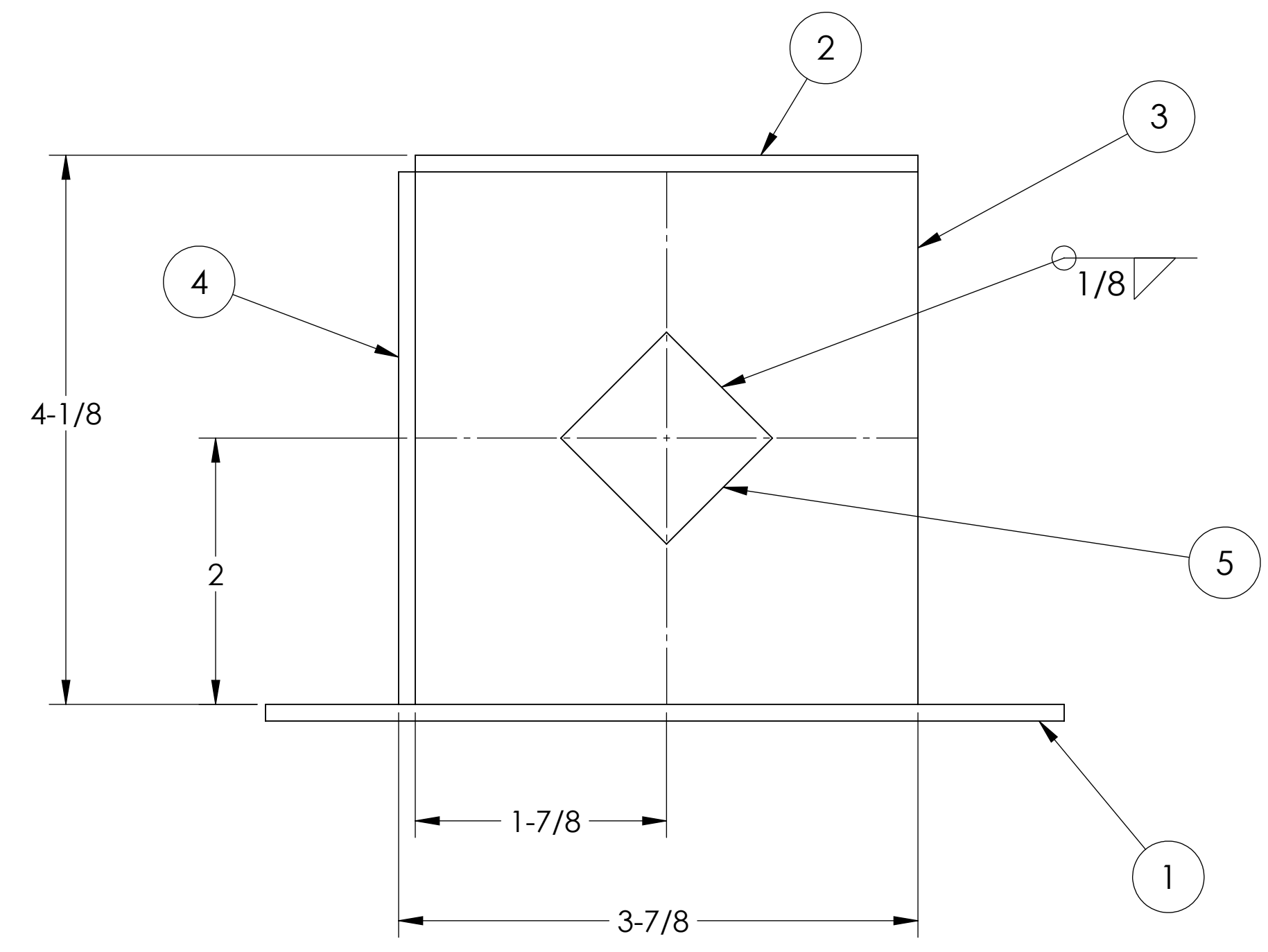
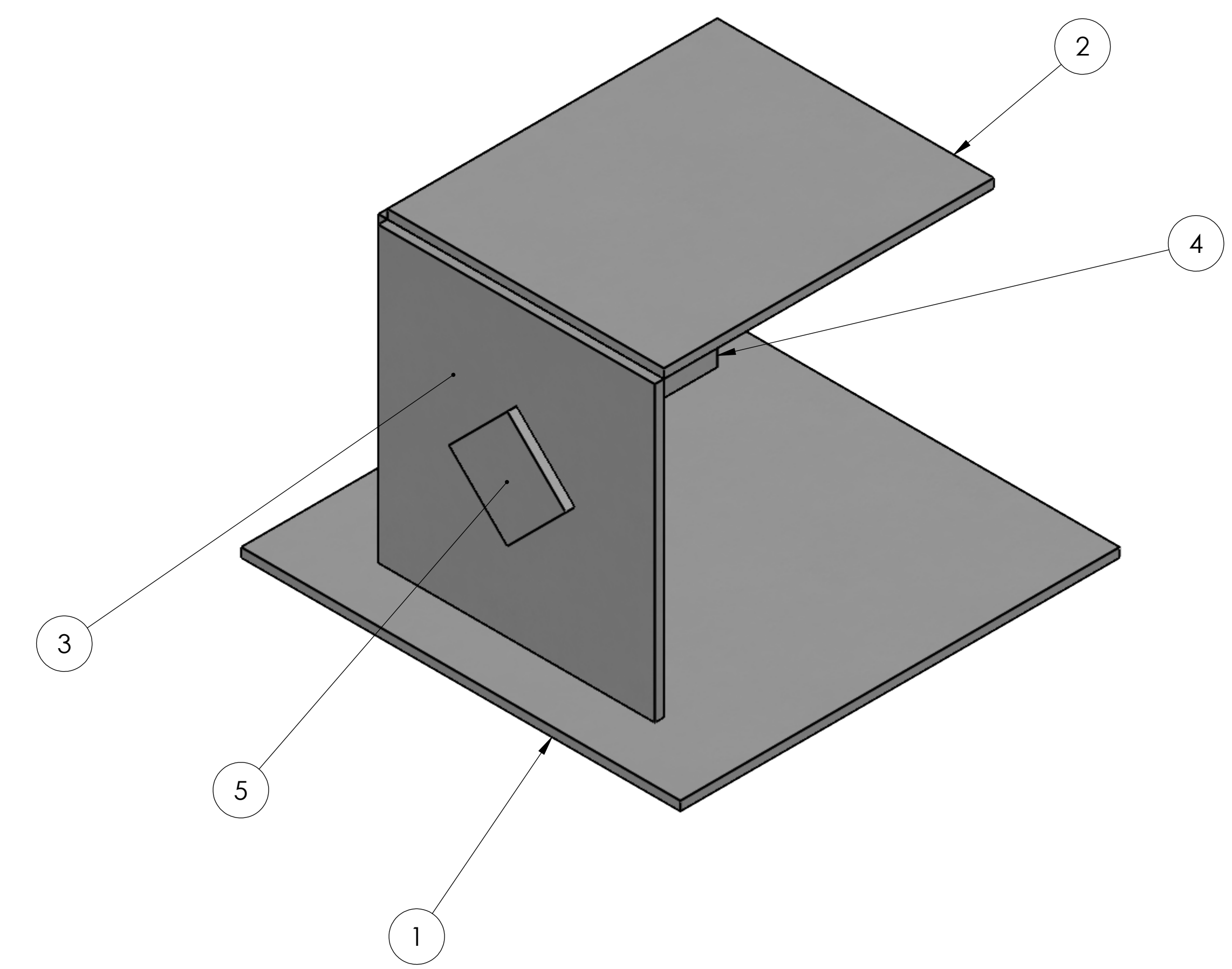
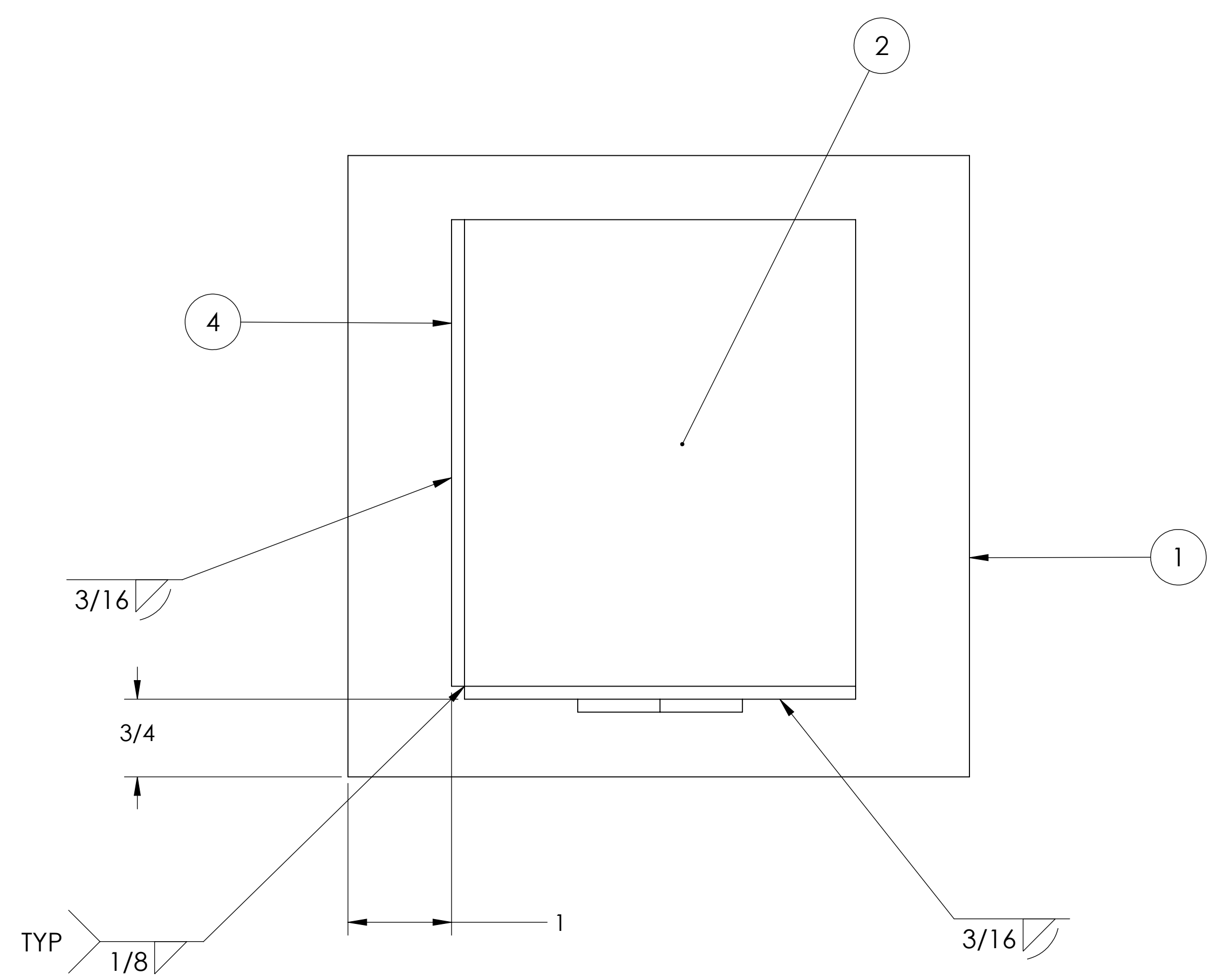
Contest scoring notes:

- **Welding project:** Projects must be made in accordance with the welding drawing and the WPS. The weldment must be assembled correctly, made with the correct welding process, and welded in the correct position following the correct progression (progression is only applicable to vertical welds).
- Any of the following discontinuities will reduce points.
 - Cracks
 - Crater Cracks
 - Undercut exceeding 1/32" in depth
 - Excessive reinforcement greater than 1/8"
 - Visible porosity
 - Overlap
 - Undersized /oversized welds
 - Excessive spatter
- Carbon Steel Project
 - FCAW flat, horizontal, vertical, with vertical up progression
 - SMAW vertical up
- Aluminum Project
 - GTAW All position, vertical up progression



(C) UNACCEPTABLE FILLET WELD PROFILES

REVISIONS		
REV.	DESCRIPTION	DATE



ITEM NO.	QTY.	DESCRIPTION	LENGTH	MATERIAL
1	1	PL, 1/8" X 6" X 6"		ALUMINUM
2	1	PL, 1/8" X 4-1/2" X 3-3/4"		ALUMINUM
3	1	PL, 1/8" X 4" X 3-3/4"		ALUMINUM
4	1	PL, 1/8" X 4-1/2" X 4"		ALUMINUM
5	1	PL, 1/8" X 1-1/8" X 1-1/8"		ALUMINUM

PARTS LIST

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DIMENSIONS ARE IN INCHES
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 DIMENSIONING & TOLERANCING PER ANSI Y14.5
 UNLESS OTHERWISE SPECIFIED:
 TOLERANCES X = ± .06 [1.52MM]
 .XX = ± .03 [0.76MM]
 .XXX = ± .010 [0.254MM]
 .XXXX = ± .0005 [0.013MM]
 ANGLES ± 0°30'
 FRACTIONS ± 1/16 [1.59MM]
 BREAK EDGES .010-.020 [0.25-0.50mm]
 ALL SMALL FILLETS .020-.040 [0.50-1.0mm]
 ALL FINISHED SURFACES 125 ✓

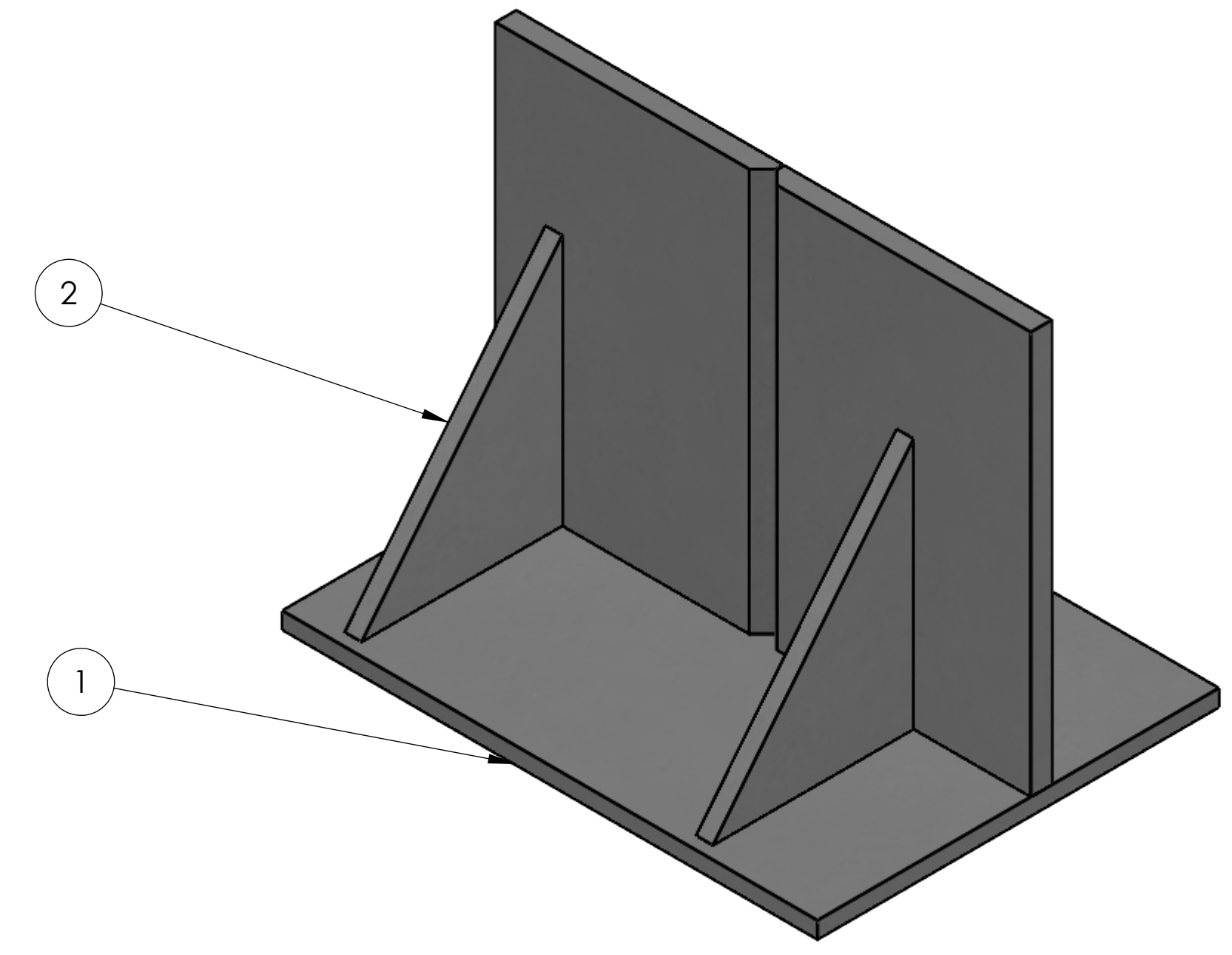
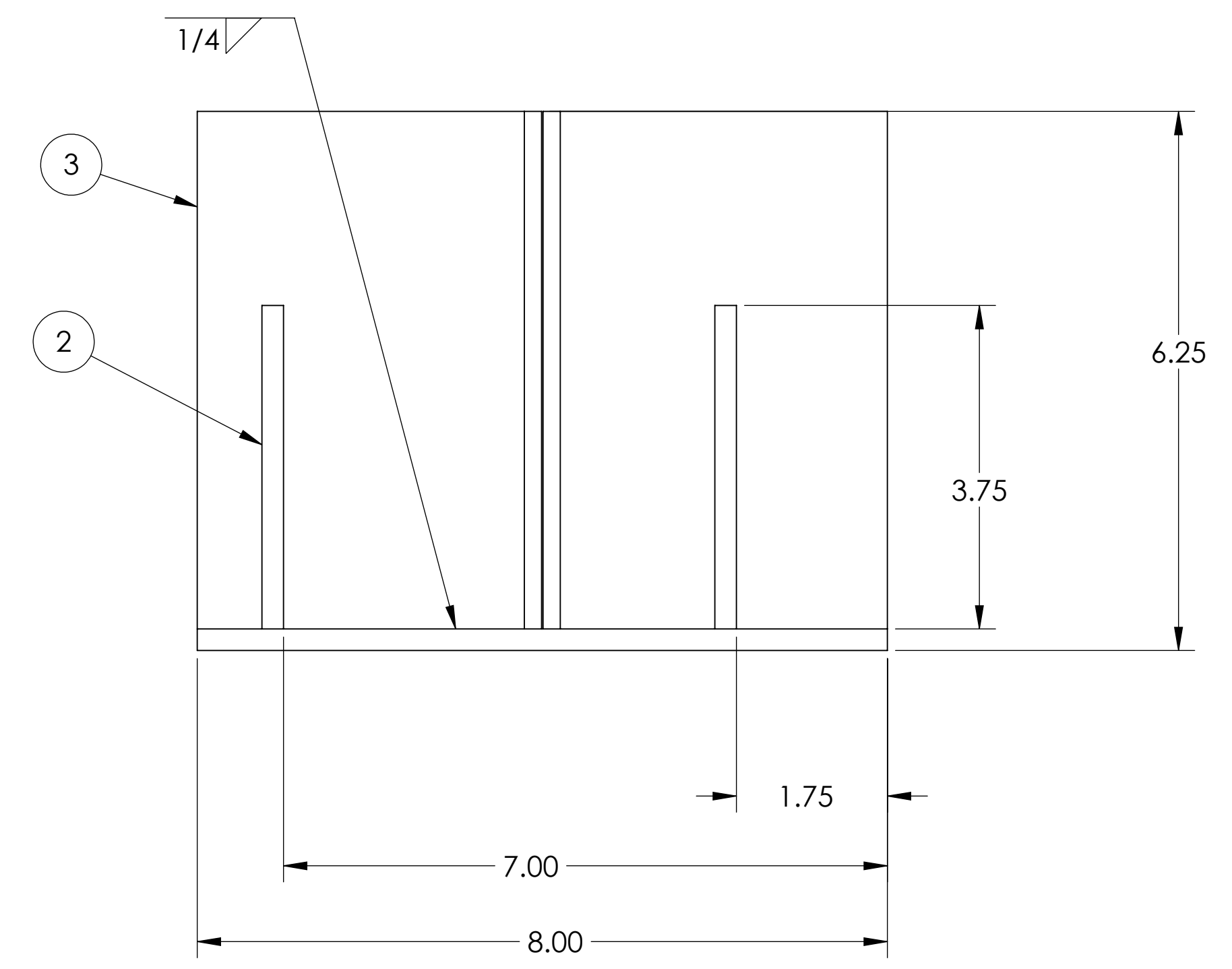
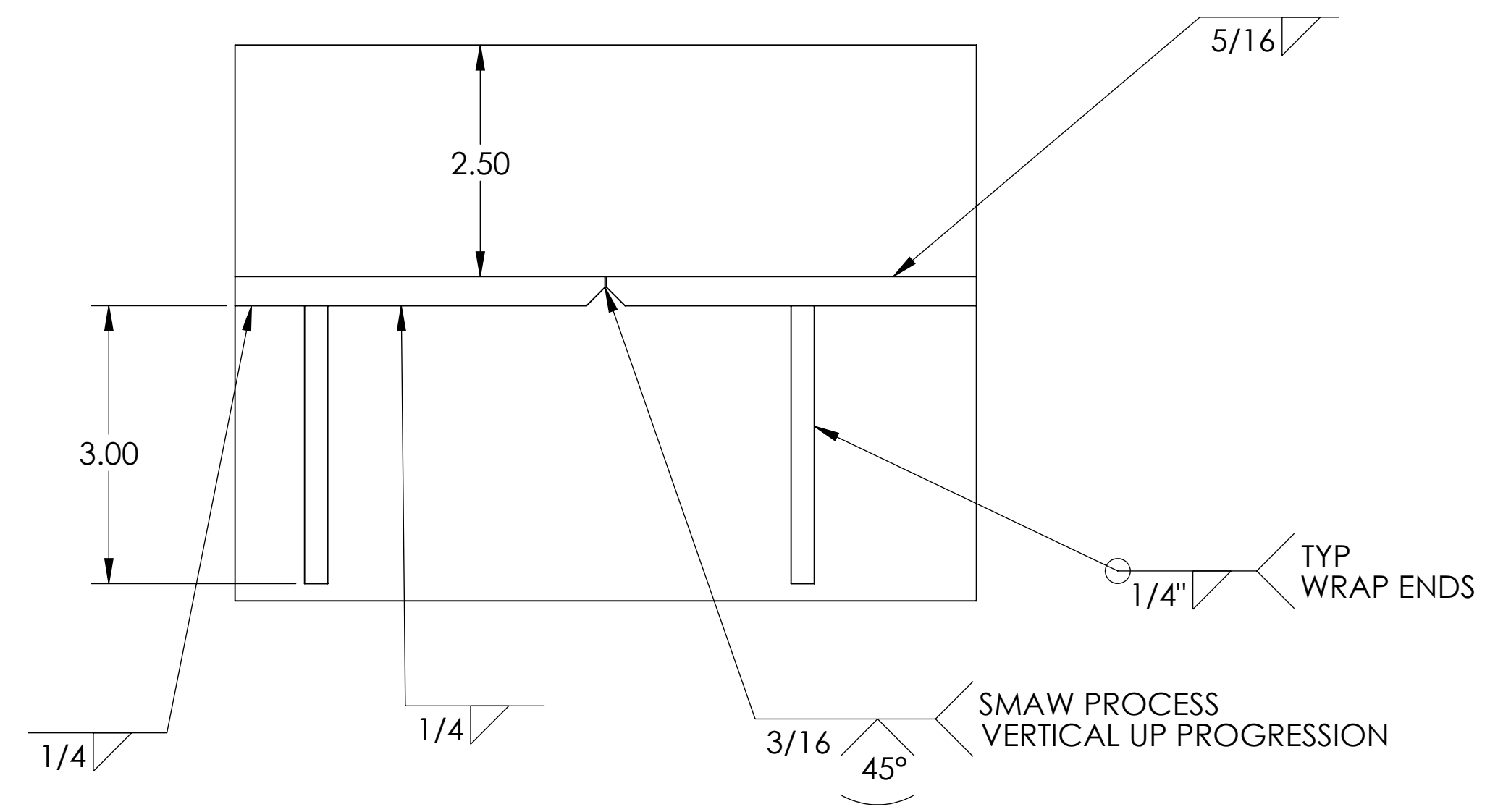
SIGNATURE	DATE
DRAWN DWALKER	2/6/26
CHECKED	
ENGINEER	
APPROVED	
APPROVED	
RELEASED	
CUSTOMER	
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IDAHO MANUFACTURING SOLUTIONS
 POCATELLO, IDAHO
 TITLE/DESCRIPTION
AL-GTAW
SKILLS USA 2026

VENDOR DWG NO.	DRAWING NUMBER	REV
	AL-GTAW	-

EST WT: 1.0578 DO NOT SCALE DRAWING SCALE: 1:1 SHEET 1 OF 1

REVISIONS		
REV.	DESCRIPTION	DATE



ITEM NO.	QTY.	DESCRIPTION	LENGTH	MATERIAL
1	1	PL 1/4" x 6" x 8"		ASTM A36
2	2	PL 1/4" x 3" x 3.75"		ASTM A36
3	2	PL 5/16" X 4" X 6"		ASTM A36

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 FRACTIONS ± 1/16 [1.59MM]
 BREAK EDGES .010-.020 [0.25-0.50mm]
 ALL SMALL FILLETS .020-.040 [0.50-1.0mm]
 ALL FINISHED SURFACES 125 ✓

SIGNATURE	DATE
DRAWN DWALKER	2/6/26
CHECKED	
ENGINEER	
APPROVED	
APPROVED	
RELEASED	
CUSTOMER	
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IDAHO MANUFACTURING SOLUTIONS
 POCATELLO, IDAHO

TITLE/DESCRIPTION
CS-FCAW
 SKILLS USA 2026

VENDOR DWG NO.	DRAWING NUMBER	REV
	CS-FCAW	-

SCALE: 1:1.5 SHEET 1 OF 1