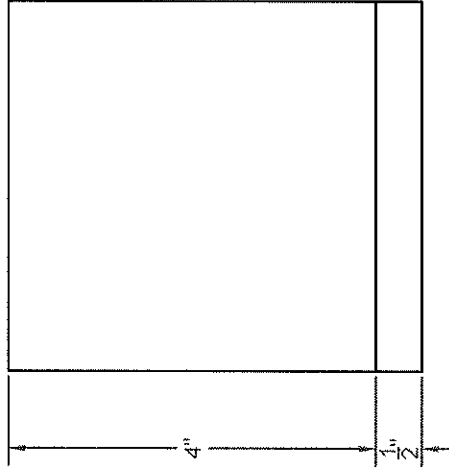
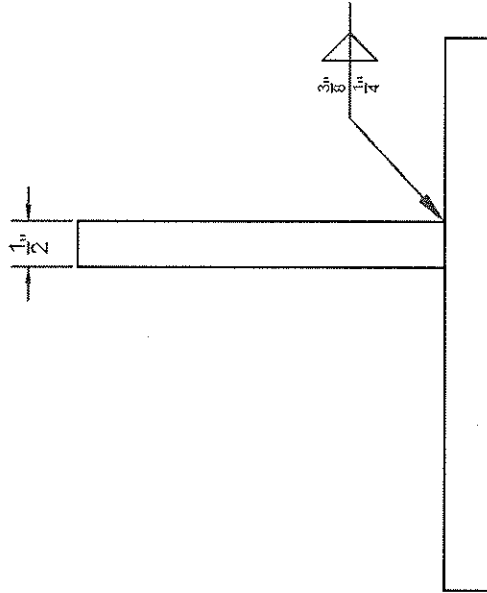
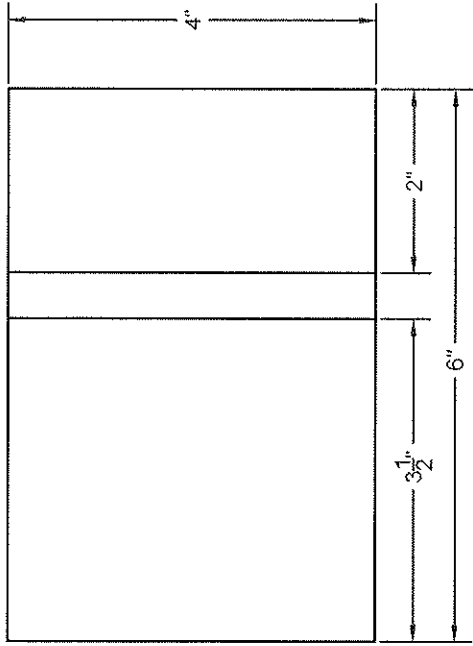


Lesson Identification and TEKS Addressed	
<b>Career Cluster</b>	Industrial Technology
<b>Course Name</b>	Welding 153 – Layout and Fitting for Welders
<b>Lesson/Unit Title</b>	Basic Welding Detail Drawings – NCCER Level 2 Module 2
<b>NCCER Requirements</b>	<p><b>Learning Objective 1</b></p> <ul style="list-style-type: none"> <li>• Describe welding detail drawings and identify basic drawing elements and features</li> <li>a. Describe the object views used to depict welding details.</li> <li>b. Identify basic drawing elements related to welding detail drawings.</li> </ul> <p><b>Learning Objective 2</b></p> <ul style="list-style-type: none"> <li>• Identify and explain how to interpret dimensional information, notes, and a bill of materials.</li> <li>a. Identify and explain how to interpret dimensional information.</li> <li>b. Identify and explain how to interpret notes and a bill of materials</li> </ul>
<b>Instructional Objectives</b>	<p><b>Students will:</b></p> <p>Determine scale based up a drawing and physical part then determine the measurements of the other components. Then they will cut and weld the pieces together to complete the project.</p>
<b>Rationale</b>	Often students will be tasking with reading/interpreting incomplete drawings on the jobsite and will need be able to compute and analyze what is given to complete the task. They will also have to understand the data to make this assumption.
<b>Duration of Lesson</b>	One class period
<b>Materials/Specialized Equipment Needed</b>	<p><b>Equipment:</b></p> <ul style="list-style-type: none"> <li>• Torch</li> <li>• Welder</li> <li>• Tape Measure</li> <li>• Square</li> <li>• Soapstone</li> <li>• PPE</li> </ul> <p><b>Materials:</b></p>

\* Special Education Modifications or Accommodations, if applicable

1. What tools are you going to need to determine the missing information?
  
2. Describe your method for determining the missing information.
  
3. What were your calculations for the missing measurements?
  
4. How would you improve your process for determining the scale of the drawing?
  
5. What was the scale in the drawing presented (remember units)?
  
6. What assumptions did you have to make to calculate the scale?
  
7. What were your calculations for the missing measurements?
  
8. How were able to determine the types of welds necessary to use based upon the drawings?
  
9. What symbols would be necessary if you were drawing the blueprint for others to understand?



### Quantitative Wedge

Scale 1:2

Drawn by: JG

Revision A

Checked by: JP

Drawing # 001

Approved: BA

# MECC WELD SHOP