

# HILMAR HIGH SCHOOL

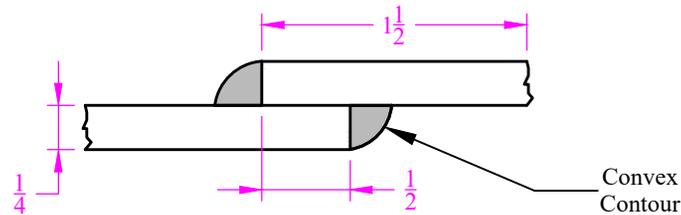
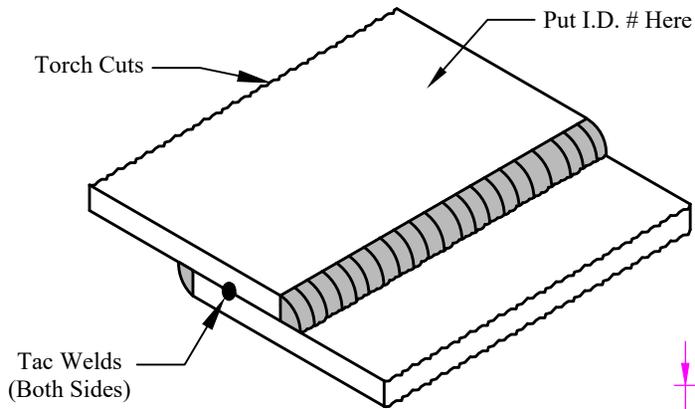
## Arc Welding

### Lap Joint

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

I.D #: \_\_\_\_\_



#### Materials:

- 1-  $\frac{3}{16}$ " or  $\frac{1}{4}$ " plate, 3" x 4"
- 6011 or 6010 x  $\frac{1}{8}$ " welding rod

#### Instructions:

1. Make sure you have on hand the appropriate safety gear and to wear it at all times.
2. Use the O/A torch to cut the plate into 2 pieces as indicated in the diagram.
3. Perform a single pass lap weld as indicated on the diagram. (Both sides)
4. Weld will be graded on correctness, uniformity, smoothness, and placement.
5. General Consideration is given to layout, neatness, and overall workmanship.
6. Be sure that your ID # is stamped on the project.

O/A Cuts	(10)	
Bead Uniformity	(25)	
Bead Correctness	(25)	
Edges of Welds	(15)	
Convex Contour	(15)	
General Consideration	(10)	
TOTAL SCORE = (100)		