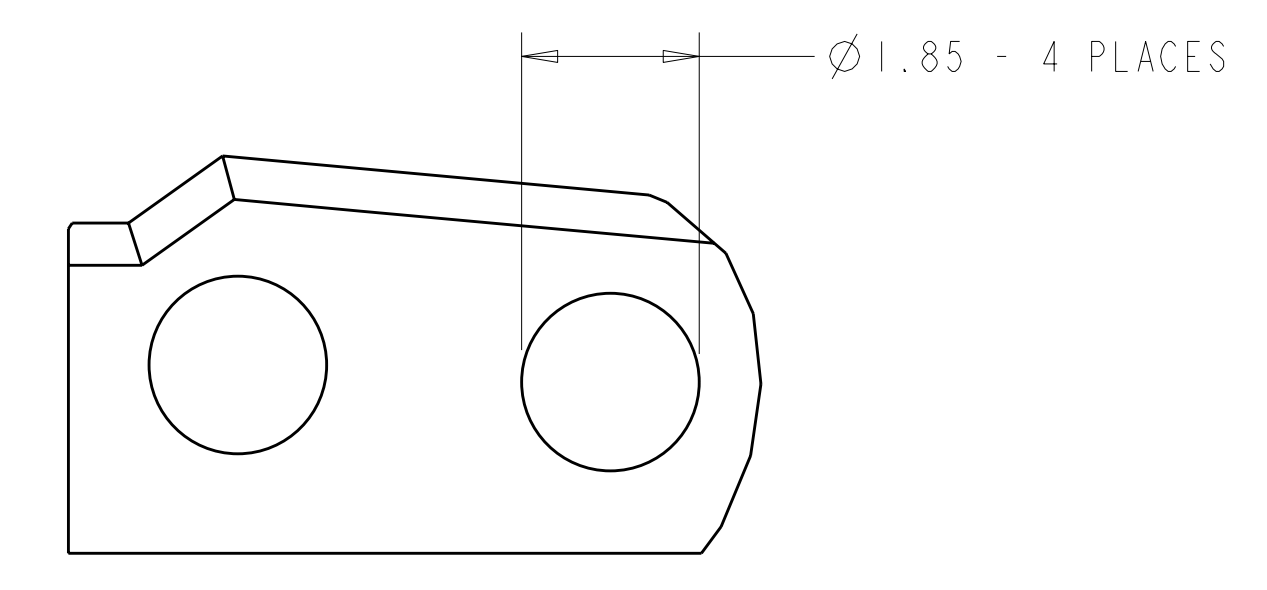
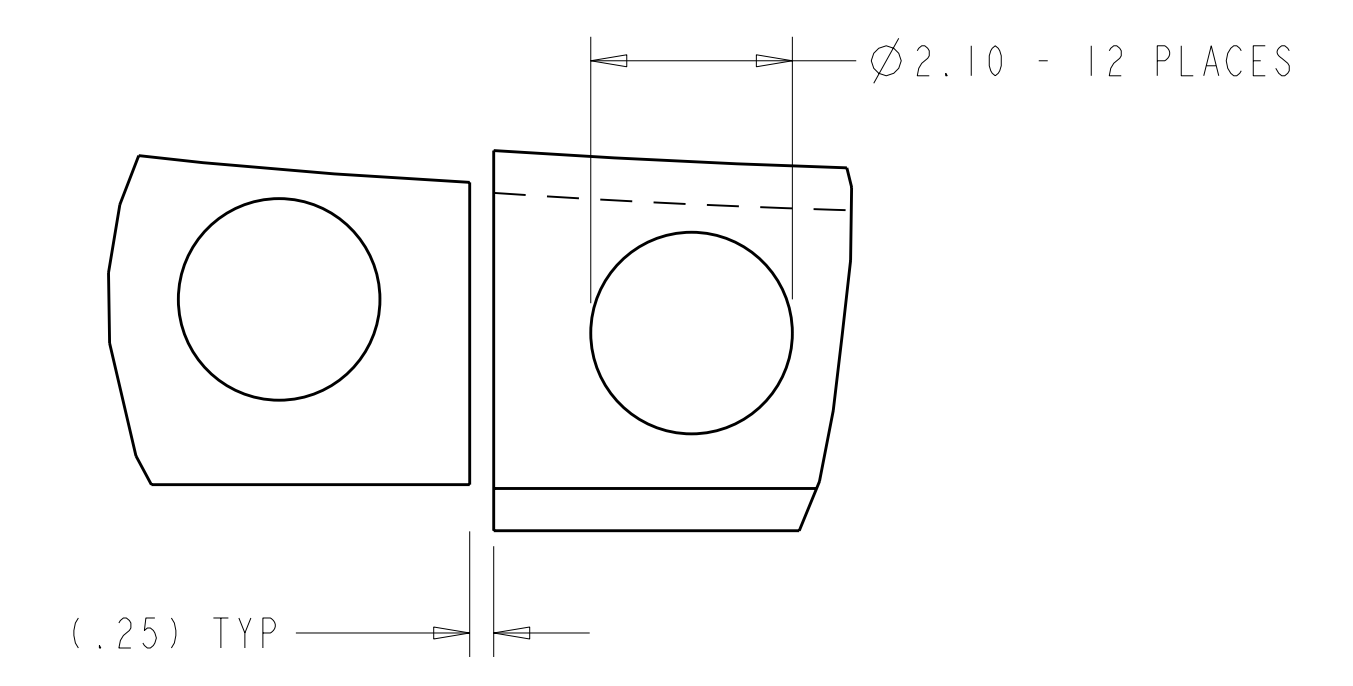


**SECTION C-C**  
SCALE 2.00

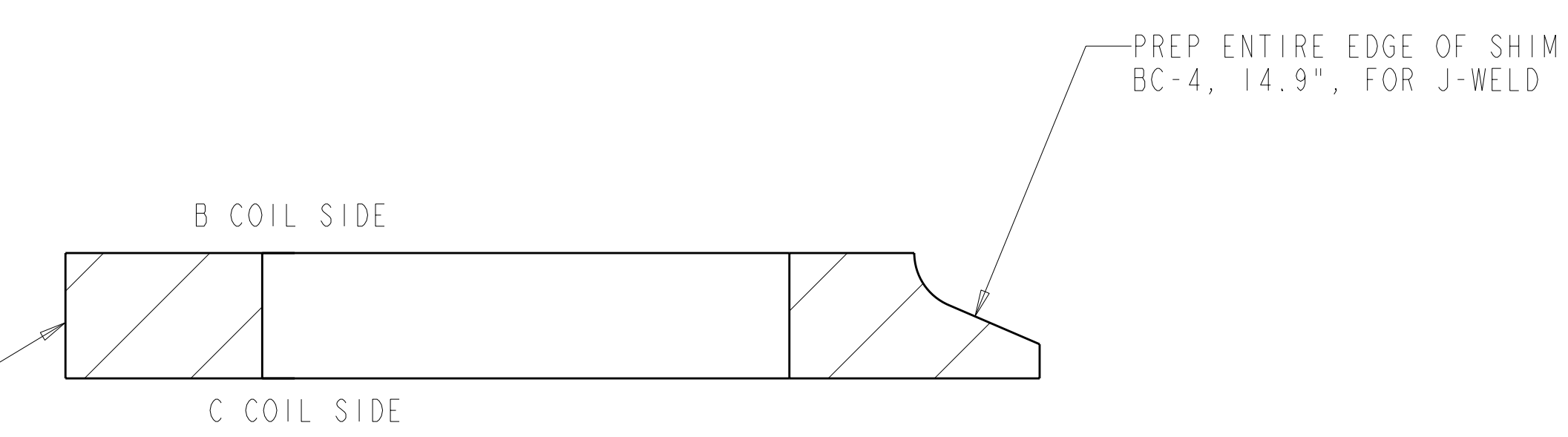


**DETAIL D**  
SCALE 0.50

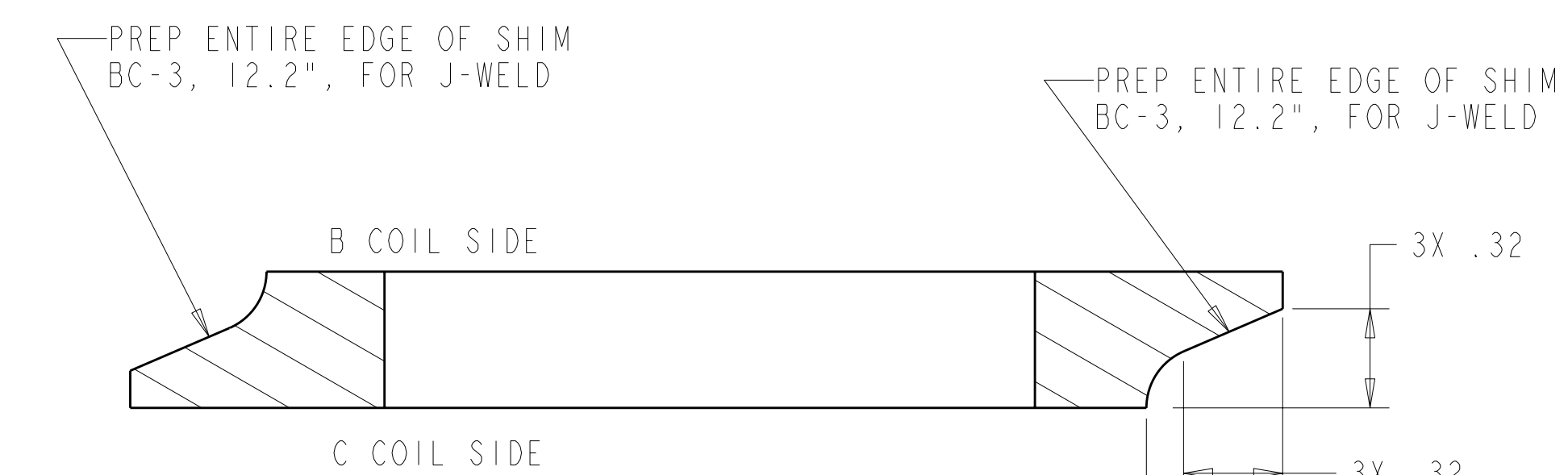


**DETAIL E**  
SCALE 0.50

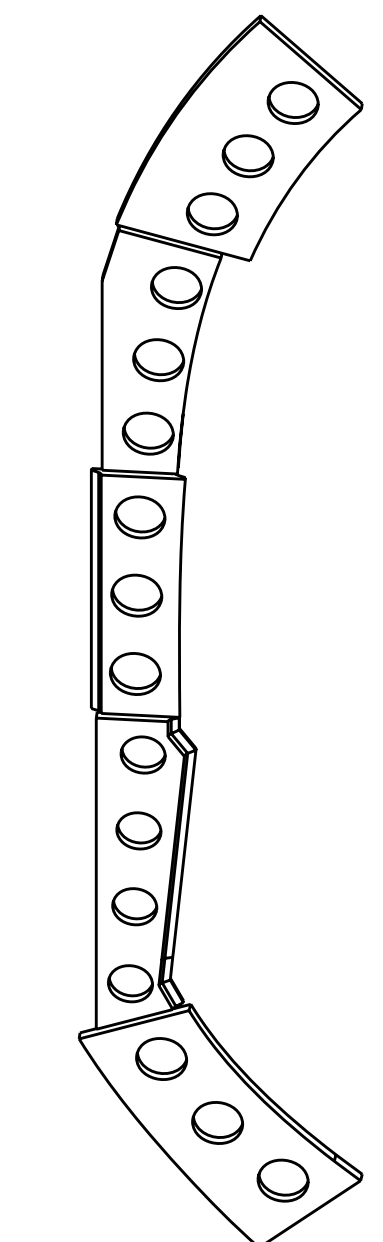
- NOTES
- DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.100-2004.
  - INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
  - DIMENSIONS ARE IN INCHES
  - MAGNETIC PERMEABILITY NOT TO EXCEED 1.02 AS TESTED BY A SEVERN INDICATOR. AVAILABLE FROM:  
SEVERN ENGINEERING  
AUBURN, ALABAMA 36830  
WWW.SEVERNENGINEERING.COM
  - SHIMS TO BE ANNEALED AFTER ALL CUTTING AND GRINDING IF PERMEABILITY SPEC IN NOTE 4 IS NOT MET
  - SHIMS MAY BE FIELD TRIMMED AS REQUIRED
  - COMPLETED PARTS TO BE CLEAN AND FREE OF ANY OIL, DEBRIS, OR CONTAMINATES.
- 1 8 EXTRA MATERIAL ALONG THIS EDGE OF BC-5 MAY BE TRIMMED AS NECESSARY PRIOR TO PREP FOR WELDING.



**SECTION B-B**  
SCALE 2.00

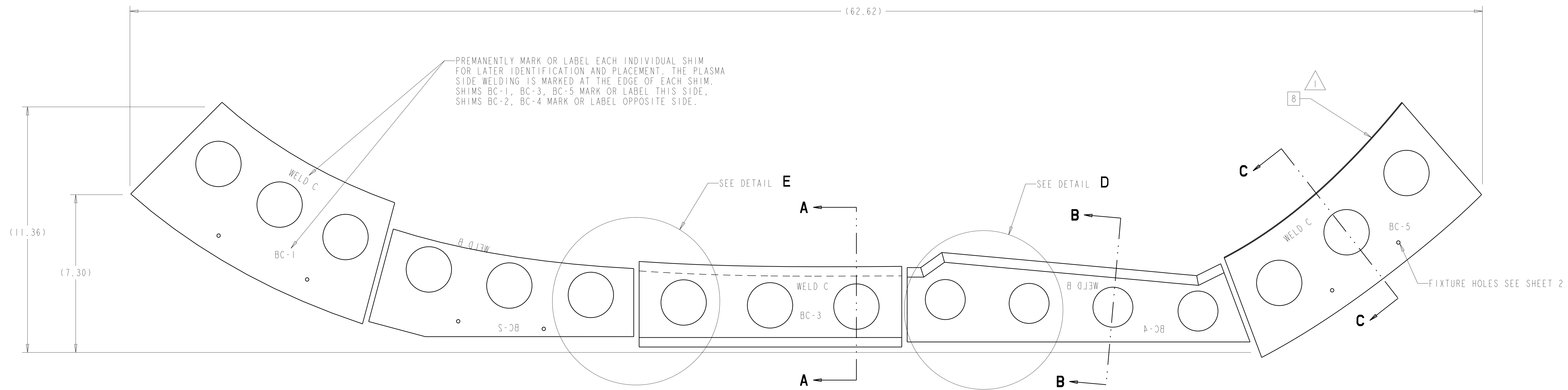


**SECTION A-A**  
SCALE 2.00



**ISOMETRIC VIEW**  
SCALE 0.125

ALL EDGES ARE AS CUT EXCEPT WHERE NOTED



**-1 BC INBOARD SHEAR PLATE**  
SCALE 0.50

NOTE: PART TO BE CUT FROM FULL SIZE TEMPLATE CREATED BY DXF FILE SE140-053.DXF, SEE SHEET 2.

UP ←

ORIENTATION TO DETERMINE SHIM POSITION AT INSTALLATION. SEE DRAWING SE140-046 FOR ADDITIONAL INFORMATION

AR	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
SE140-053	-1	BC INBOARD SHEAR PLATE	316L ANNEALED	ASTM A240		

← NEXT ASSEMBLY

PARTS LIST

RELEASED FOR FABRICATION/INSTALLATION  
PPPI Drafting

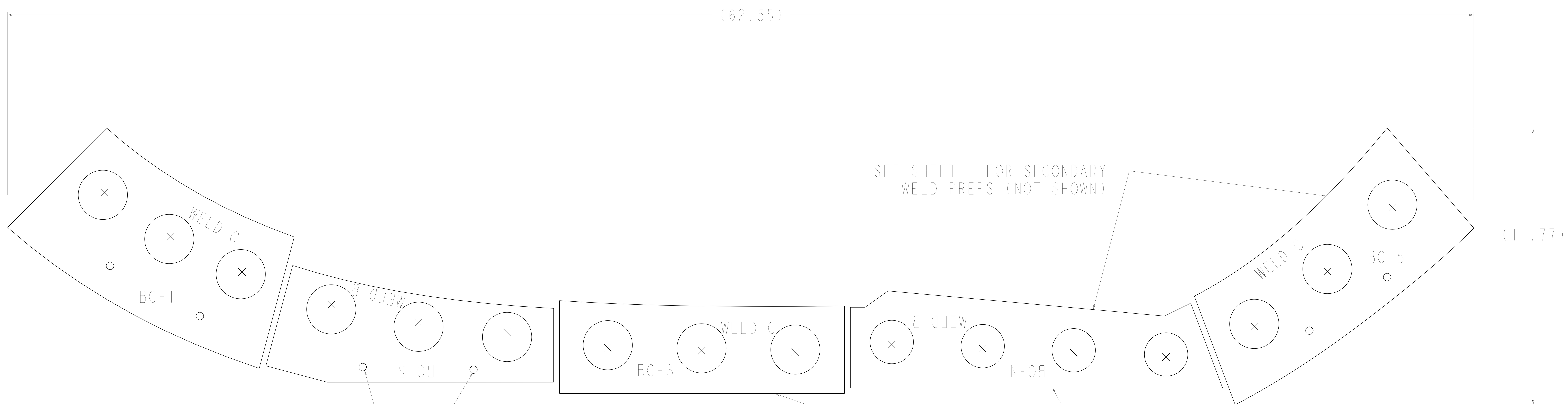
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**P** THIS DRAWING PRODUCED ON PRO-ENGINEER

REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REQ	DATE	ORNL	DOE	DATE
1	NOTE 8, CHANGED TITLE, PER ECN # 5319	GM	01/08	MC		01/08						
0	ORIGINAL ISSUE	SH	01/08	MC		01/08						

SCALE NOTED		DES: D WILLIAMSON	01/2008
TOLERANCES UNLESS OTHERWISE SPECIFIED		DRW: S HOMESCU	01/2008
FRACTIONS		CHK: M COLE	01/2008
XX DECIMALS ±.01		SECT:	
XXX DECIMALS ±.005		DEPT:	
ANGLES ±0°15'		PE:	
BREAK SHARP EDGES OR MAX		CR:	
FINISH .125 UNLESS OTHERWISE SPECIFIED		PJ:	
		REQ:	
		PPPL DRFT J SIEGEL	01/2008
		VERSION NO.	0
		PLANT	ORNL
		BLDG	5700
		FL	3
		SHT	1
		OF	2
		TYPE	S
		CLASS	U
		RELEASE LEVEL	
		Fabrication	
		SE140-053	
		REV	

Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC. Oak Ridge, Tennessee	
PROJECT NAME: <b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>	
<b>B-C INBOARD SHEAR PLATE</b>	
VERSION NO.	0
PLANT	ORNL
BLDG	5700
FL	3
SHT	1
OF	2
TYPE	S
CLASS	U
RELEASE LEVEL	
Fabrication	
SE140-053	
REV	



2 FIXTURE HOLES PER SHIM,  $\phi$ .31 DIA, MAY BE LOCATED APPROXIMATELY IN AREAS SHOWN AS REQUIRED.

NOTE: PART SIZE AND HOLE LOCATIONS MUST NOT DEVIATE FROM DXF FILE BY MORE THAN  $\pm .03$

FIXTURE HOLES MAY NOT BE LOCATED INSIDE PERIMETER OF NARROW SHIMS. VENDOR OPTION TO FIXTURE WITH OTHER METHODS.

**FULL SIZE TEMPLATE - CREATED FROM DXF FILE SE140-053.DXF**  
SCALE 1 : 1

RELEASED FOR  
FABRICATION/INSTALLATION  
EFTL Drawing

Oak Ridge National Laboratory Managed by the Department of Energy for the Office of Fusion Energy Research at ORNL, LLC, for the U.S. Government					
<b>UT-BATTELLE</b>					
NATIONAL COMPACT STELLARATOR EXPERIMENT					
B-C INBOARD SHEAR PLATE					
DESIGN NO.	PLANT	BUILD	FL	INT	OR TYPE
SE140-053	ORNL	S100	3	12	2 S U
FABRICATION					SE140-053