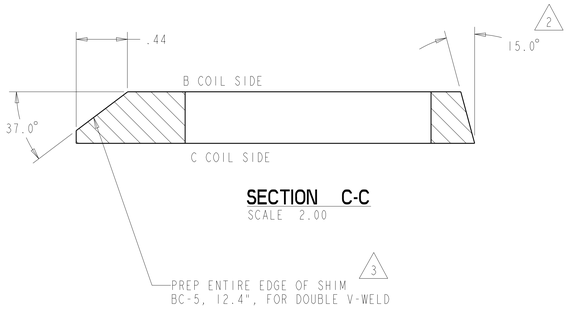
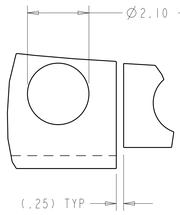
NOTES

1. DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.100-2004.
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
3. DIMENSIONS ARE IN INCHES
4. MAGNETIC PERMEABILITY NOT TO EXCEED 1.02 AS TESTED BY A SEVERN INDICATOR. AVAILABLE FROM:
   SEVERN ENGINEERING
   AUBURN, ALABAMA 36830
   WWW.SEVERNENGINEERING.COM
5. SHIMS TO BE ANNEALED AFTER ALL CUTTING AND GRINDING IF PERMEABILITY SPEC IN NOTE 4 IS NOT MEET
6. SHIMS MAY BE FIELD TRIMMED AS REQUIRED
7. COMPLETED PARTS TO BE CLEAN AND FREE OF ANY OIL, DEBRIS, OR CONTAMINATES.

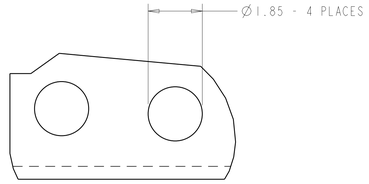
△2



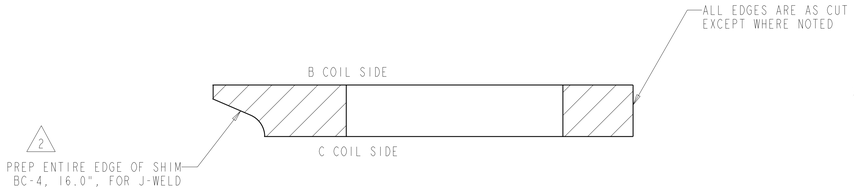
SECTION C-C
SCALE 2.00



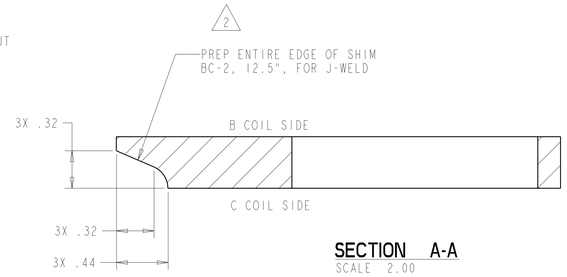
DETAIL E
SCALE 0.50



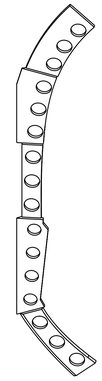
DETAIL D
SCALE 0.50



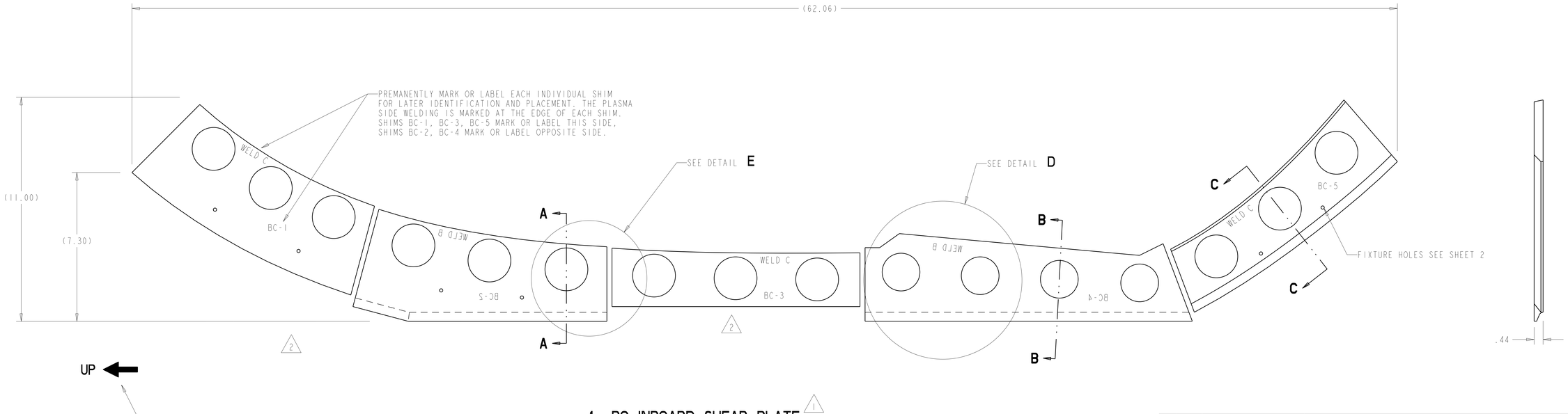
SECTION B-B
SCALE 2.00



SECTION A-A
SCALE 2.00



ISOMETRIC VIEW
SCALE 0.125



-1 BC INBOARD SHEAR PLATE △1

SCALE 0.50

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

AR		-1	BC INBOARD SHEAR PLATE	316L ANNEALED	ASTM A240	1
SE140-046	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
△2	← NEXT ASSEMBLY		PARTS LIST			

SE140-053 B

RELEASED FOR FABRICATION / INSTALLATION
PPPL Drafting: jerome siegel

REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REQ	DATE	ORNL	DOE	DATE
	REVISION OR ISSUE PURPOSE	REVISION APPROVAL										
3	CHANGED J WELD TO DOUBLE V WELD. ECN# 5381	GM	07/08									
2	TO SE140-046. PER ECN # 5332	GM	05/08	MC		05/08						
2	AND J PREPS ON BC-3. CHANGED "NEXT ASSY"											
2	EDGES ON BC-2, BC-4, AND BC-5. DELETED NOTE 8											
2	V WELD PREP TO 15° CHAMFER. ADDED J WELD PREP											
2	SHORTENED BACK EDGE OF BC-5 AND CHANGED											
1	NOTE 8, CHANGED TITLE, PER ECN # 5319	GM	01/08	MC		01/08						
1	ADDED EXTRA MATERIAL TO BC-5, ADDED											
0	ORIGINAL ISSUE	SH	01/08	MC		01/08						

SCALE NOTED
TOLERANCES UNLESS OTHERWISE SPECIFIED
FRACTIONS
XX DECIMALS ±.01
XXX DECIMALS ±.005
ANGLES ±0° 15'
BREAK SHARP EDGES .06 MAX
FINISH 125 UNLESS OTHERWISE SPECIFIED

DRAWING APPROVALS		DATE
DES	D WILLIAMSON	01/2008
DRW	S HOMESCU	01/2008
CHK	M COLE	01/2008
SECT	:	:
DEPT	:	:
PE	:	:
CR	:	:
PJ	:	:
REQ	:	:
PPPL DRFT	J SIEGEL	01/2008
	:	:
	:	:

UT-BATTELLE
Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT contract DE-AC05-00OR22725
UT-BATTELLE, LLC. Oak Ridge, Tennessee

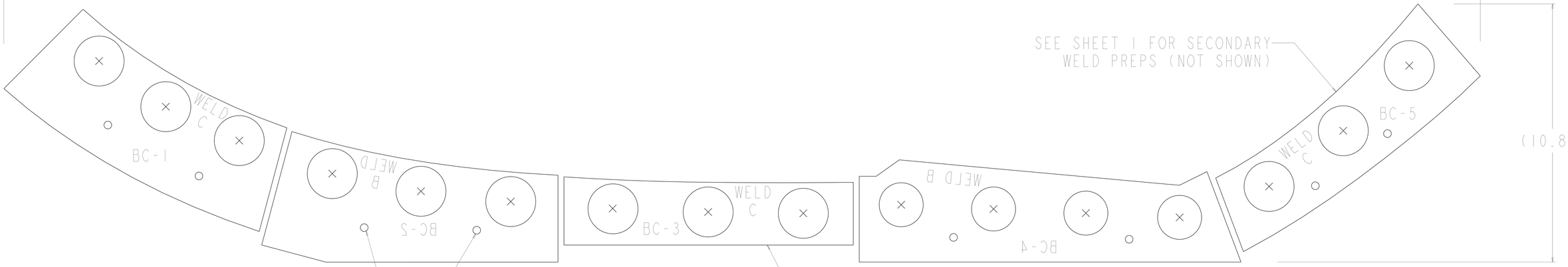
PROJECT NAME
NATIONAL COMPACT STELLARATOR EXPERIMENT

B-C INBOARD SHEAR PLATE

VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
1	ORNL	5700	3	1	2	S	U

RELEASE LEVEL: Fabrication
SE140-053
REV 3

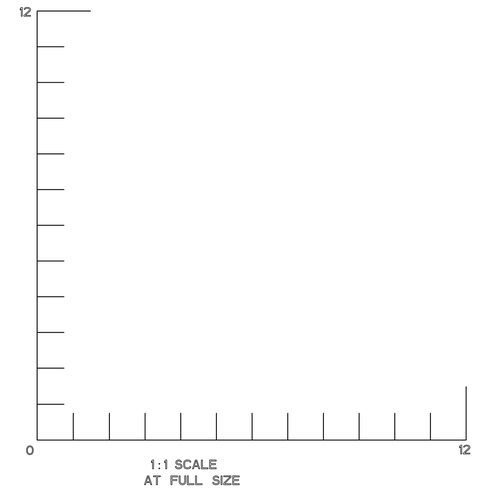
P THIS DRAWING PRODUCED ON PRO-ENGINEER



FULL SIZE TEMPLATE - CREATED FROM DXF FILE SE140-053.DXF

SCALE 1 : 1

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



RELEASED FOR FABRICATION / INSTALLATION

PPPL Drafting: jerome sieger — Digitally signed by jerome sieger, DN: cn=jerome sieger, email=jsieger@pppl.gov, c=US, Date: 2008.08.05 14:29:50 -04'00'

UT-BATTELLE — Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 by UT-BATTELLE, LLC Oak Ridge, Tennessee

NATIONAL COMPACT STELLARATOR EXPERIMENT

B-C INBOARD SHEAR PLATE

VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
	ORNL	5700	3	2	2	S	U
RELEASE LEVEL: Fabrication		SE140-053					REV 3