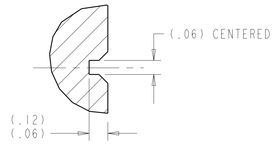
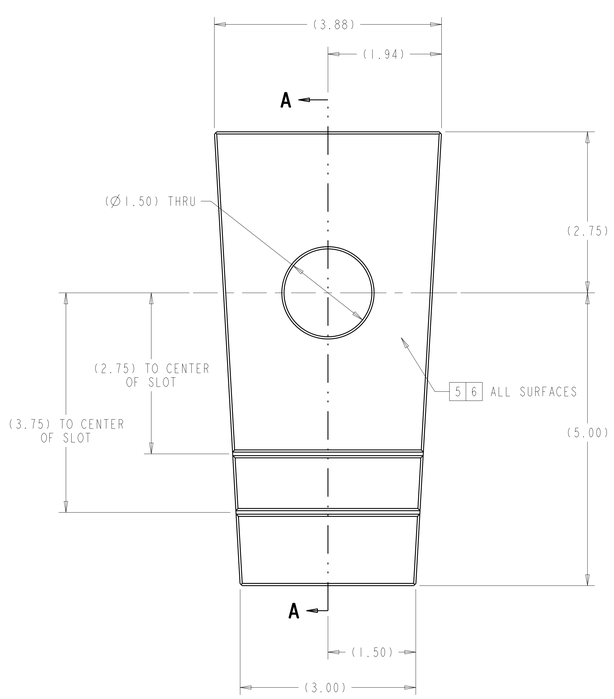
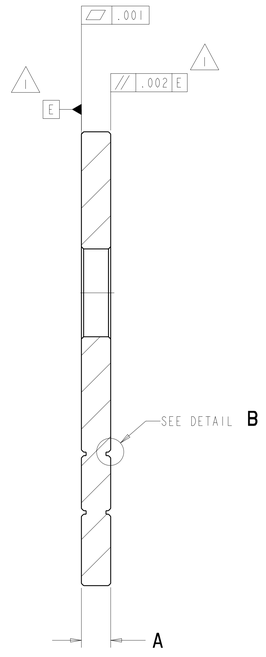


DETAIL B
SCALE 4.00





SECTION A-A

1 SINGLE HOLE SHIM
SCALE 1.00

NOTE: DIMENSIONS SHOWN ON THIS SHEET APPLY AFTER COATING

SEE SHEET 2 FOR NON-COATED PART

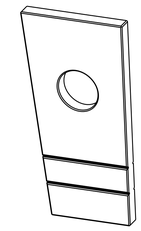
NOTES

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

   IF PERMEABILITY SPEC IS NOT ACHIEVED THEN SOLUTION ANNEAL PART PRIOR TO COATING.
5. ALUMINA COATING PER SPECIFICATION NCSX-CSPEC-142-06-00.
6. SURFACE FINISH AFTER COATING 150-500. SURFACE FINISH ON NON-COATED PART 125 OR LESS UNLESS OTHERWISE SPECIFIED BY COATING SUPPLIER.

TOTAL 214

QTY REQ'D	DIM A FINISHED SIZE ALUMINA COATED THICKNESS PER SIDE .025 +.003 / -.002	MIN FINISHED SIZE	MAX FINISHED SIZE	THICKNESS OF SS ± .001	PART NO
1	.540	.535	.547	.490	-36
1	.538	.533	.545	.488	-35
1	.536	.531	.543	.486	-34
1	.534	.529	.541	.484	-33
2	.532	.527	.539	.482	-32
2	.530	.525	.537	.480	-31
3	.528	.523	.535	.478	-30
4	.526	.521	.533	.476	-29
5	.524	.519	.531	.474	-28
6	.522	.517	.529	.472	-27
7	.520	.515	.527	.470	-26
8	.518	.513	.525	.468	-25
9	.516	.511	.523	.466	-24
10	.514	.509	.521	.464	-23
10	.512	.507	.519	.462	-22
11	.510	.505	.517	.460	-21
12	.508	.503	.515	.458	-20
12	.506	.501	.513	.456	-19
12	.504	.499	.511	.454	-18
12	.502	.497	.509	.452	-17
11	.500	.495	.507	.450	-16
11	.498	.493	.505	.448	-15
10	.496	.491	.503	.446	-14
9	.494	.489	.501	.444	-13
8	.492	.487	.499	.442	-12
7	.490	.485	.497	.440	-11
6	.488	.483	.495	.438	-10
5	.486	.481	.493	.436	-9
4	.484	.479	.491	.434	-8
4	.482	.477	.489	.432	-7
3	.480	.475	.487	.430	-6
2	.478	.473	.485	.428	-5
2	.476	.471	.483	.426	-4
1	.474	.469	.481	.424	-3
1	.472	.467	.479	.422	-2
1	.470	.465	.477	.420	-1



ISOMETRIC VIEW
SCALE .50

SE140-044						
AR		SEE CHART	SINGLE HOLE SHIM	316 SST 4 PLASMA ALUMINA COATED 5	ASTM A240	1
	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
	← NEXT ASSEMBLY		PARTS LIST			

SE140-040

RELEASED FOR FABRICATION / INSTALLATION
PPPL Drafting: ? Jerry Siegel 2008.03.19 13:14:48 -05'00'

REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REQ	DATE	ORNL	DOE	DATE
1	PER ECN # 5325	GM	03/08	MC		03/08						
1	CHANGED "NEXT ASSY" TO SE140-044.											
1	ADDED DATUM F AND PARALLEL TOLERANCE SHEET 2.											
1	ADDED DATUM E AND PARALLEL TOLERANCE SHEET 1.											
0	ORIGINAL ISSUE	GM	07/07	MC		07/07	DW		07/07			

REVISION OR ISSUE PURPOSE — REVISION APPROVAL

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	07/07
DRW	G MCGINNIS	07/07
CHK	M COLE	07/07
SECT	:	:
DEPT	:	:
PE	:	:
CR	:	:
PJ	:	:
REQ	:	:
PPPL DRFT	J SIEGEL	07/07
	:	:
	:	:

UT-BATTELLE
Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-000R22725
UT-BATTELLE, LLC. Oak Ridge, Tennessee

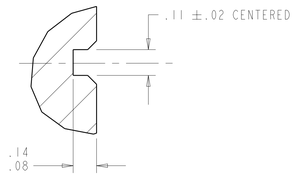
PROJECT NAME: NATIONAL COMPACT STELLARATOR EXPERIMENT

SINGLE HOLE SHIM PLATE

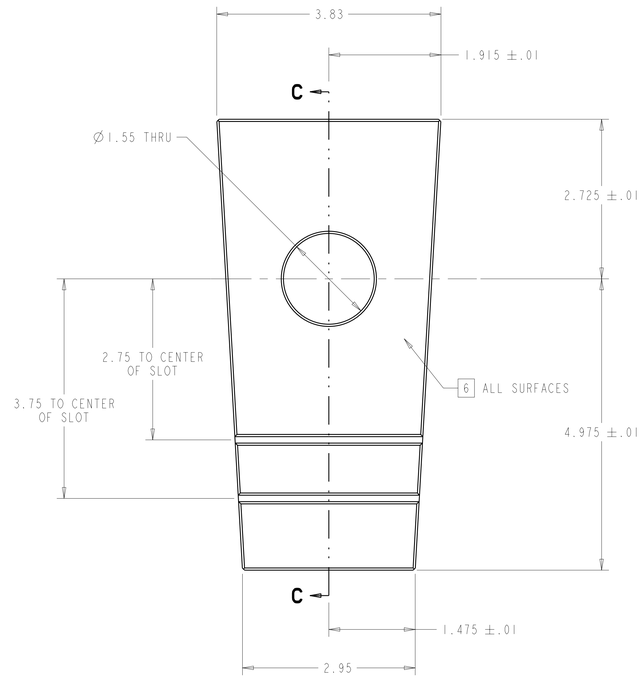
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
6	ORNL	5700	3	1	2	S	U

RELEASE LEVEL: Fabrication — SE140-040 — REV 1

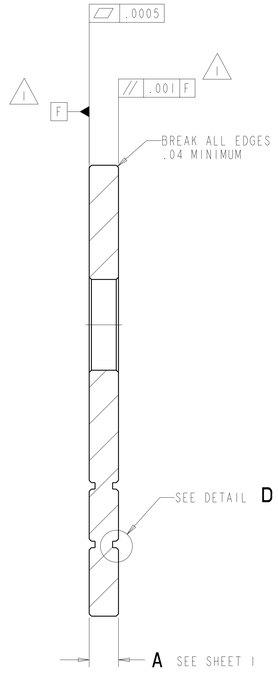
P THIS DRAWING PRODUCED ON PRO-ENGINEER



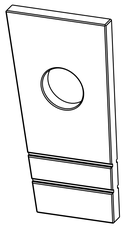
DETAIL D
SCALE 4.00



SCALE 1.00



SECTION C-C



ISOMETRIC VIEW
SCALE 0.50

NOTE: DIMENSIONS SHOWN ON THIS SHEET ARE FOR NON-COATED PART

SEE SHEET 1 FOR ADDITIONAL NOTES AND SPECIFICATIONS

RELEASED FOR FABRICATION / INSTALLATION
PPPL Drafting: Jerry Siegel 2008.03.19 13:14:48 -05'00'

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SINGLE HOLE SHIM PLATE

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

RELEASE LEVEL: Fabrication
SE140-040
REV 1

SE140-040