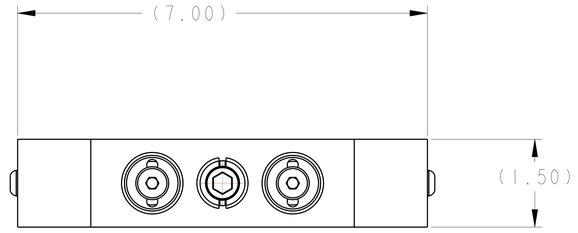
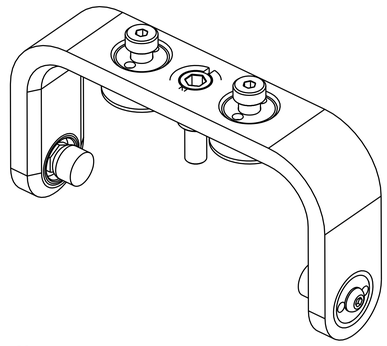
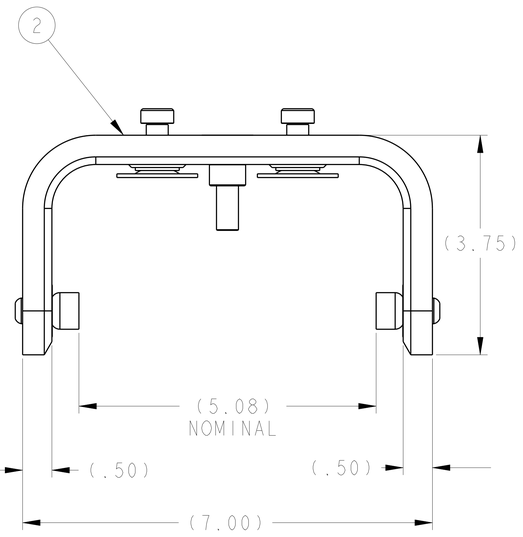
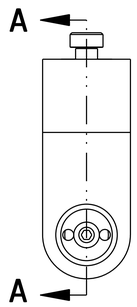
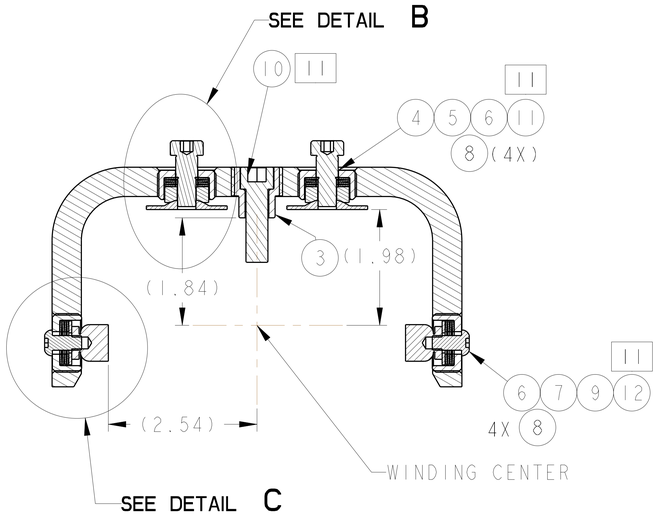




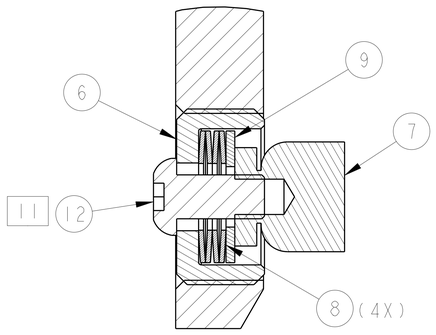
1 CLAMP ASSEMBLY
SCALE 1.0



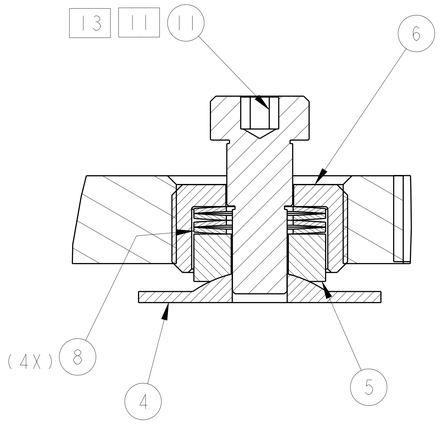




SECTION A-A



DETAIL C
SCALE 3.0



DETAIL B
SCALE 3.0

NOTES:

1. DRAWING PREPARED IN ACCORDANCEWITH ASME Y14.100-2000.
2. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1994.
3. DIMENSIONS ARE IN INCHES
4. DIMENSIONS APPLY AT ROOM TEMPERATURE. OPERATING TEMP 80 K
5. GEOMETRY IS DEFINED IN PRO ENGINEER CAD MODELS/FILES
6. DRAWING AND MODELS COMBINED DEFINE FINISHED MACHINED PART
7. MAGNETIC PERMABILITY SHALL NOT EXCEED 1.02 AS TESTED BY A SEVERN-TYPE INDICATOR. AVAILABLE FROM

   SEVERN ENGINEERING COMPANY
   555 OLD STAGE ROAD SUITE 14
   AUBURN, ALABAMA 36830

8. SOLON MANUFACTURING CO. — CAGE CODE: 5L934
   7 ISLAND AVENUE — PHONE: 207-474-6213
   SKOWHEGAN, ME 04976-1102 — FAX: 207-474-7320

9. VLIER — CAGE CODE: 01226
   40 GUEST ST. — PHONE: 800-821-1090
   BRIGHTON, MA 02135 — FAX: 800-457-2020

10. MCMASTER-CARR SUPPLY — CAGE CODE: 39428
    600 COUNTY LINE RD — PHONE: 630-833-0300
    ELMHURST, IL 60126-2081

11. SILVER PLATE PER AMS 2410J.
    PLATING THICKNESS .0002 TO .0005 INCH

12. ITEM 6 USES SPANNER WRENCH, 5981A1 FROM MCMASTER CARR OR EQUAL.

13. FIND NUMBER 11 TO BE REMOVED AT NEXT ASSEMBLY.

RELEASED FOR FABRICATION / INSTALLATION
PPPL Drafting: Jerry Siegel 2005.12.02 14:59:32 -05'00'

11 10		2		98164A211	BUTTONHEAD CAP SCREW, 1/4-20 UNC X .50 LG, 5/32 HEX DRIVE	UNS S31600		12
11 10		2		97345A601	BOLT, SOC HEAD, 5/16-18 UNC, .375 OD X 3/8" LG SHLDR , 3/8 HEX DRIVE	UNS S31600		11
11 10		1		92185A626	SOCKET HD CAP SCREW, 3/8-16 UNC X 1.25 LG	UNS S31600		10
10		2		90107A030	WASHER, FLAT, .75 OD X .344 ID X .050 THK	UNS S31600		9
8		16		61240718	WASHER, BELLEVILLE, 3/8 ID X 3/4 OD X.040 THK X .056 FREE HT	INCONEL 718		8
9		2		SSP300	CLAMP SWIVEL, 1/4-20 UNC X 5/16 LG THD, PAD DIA 5/8, OA LENGTH 5/8	SS, UNS S31600		7
		4		SE142C-275	KEEPER, SCREW, SET			6
		2		SE142C-274	WASHER, SPHERICAL, CONCAVE			5
		2		SE142C-273	WASHER, SPHERICAL, CONVEX			4
		1		SE142C-272	BUSHING, SPACER			3
		1		SE142C-271	BAR, CLAMP			2
7	AR	X		-1	CLAMP ASSEMBLY			1
SE140-103	-1	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO	
		←	NEXT ASSEMBLY	PARTS LIST				

SE142C-270

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P THIS DRAWING PRODUCED ON PRO-ENGINEER

REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REQ	DATE	ORNL	DOE	DATE
	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

DES	D WILLIAMSON	1-27-05
DRW	GARY LOVETT	1-27-05
CHK	TOM HARGROVE	8-26-05
SECT	:	:
DEPT	:	:
PE	:D WILLIAMSON	8-26-05
CR	:	:
PJ	:	:
REQ	:	:
PPPL DRFT	J SIEGEL	8-26-05
	:	:
	:	:

DRAWING APPROVALS DATE

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

CLAMP ASSEMBLY

VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
8	X-10	5700	3	1	1	S	U

RELEASE LEVEL: Fabrication
SE142C-270
REV 0