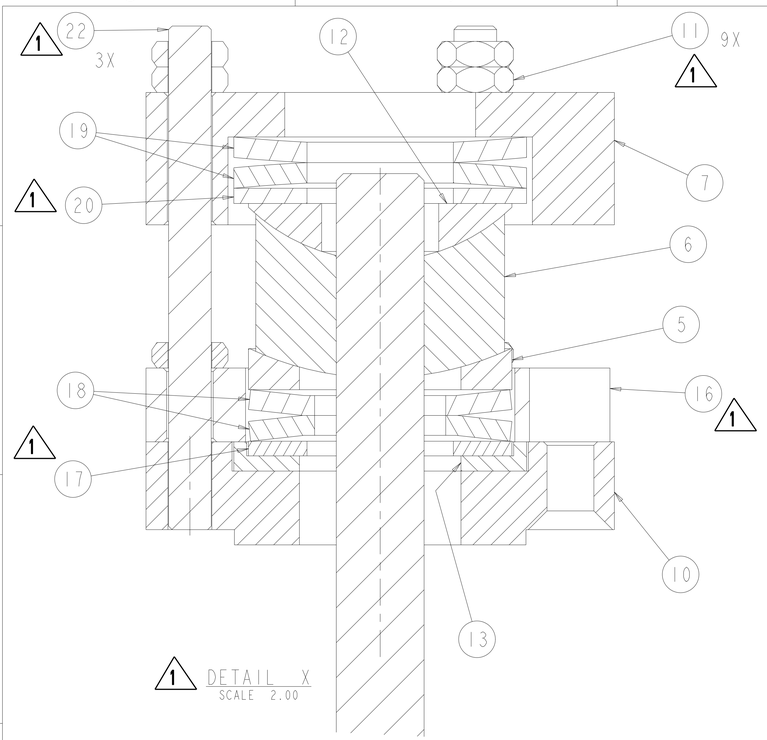
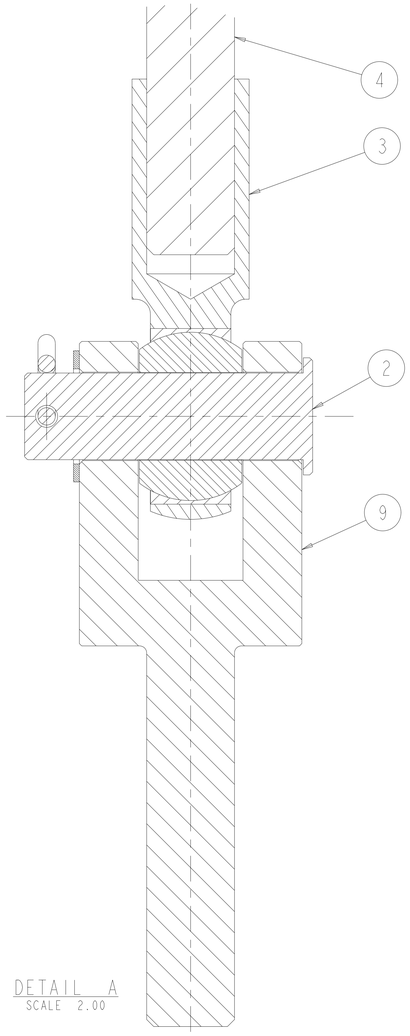
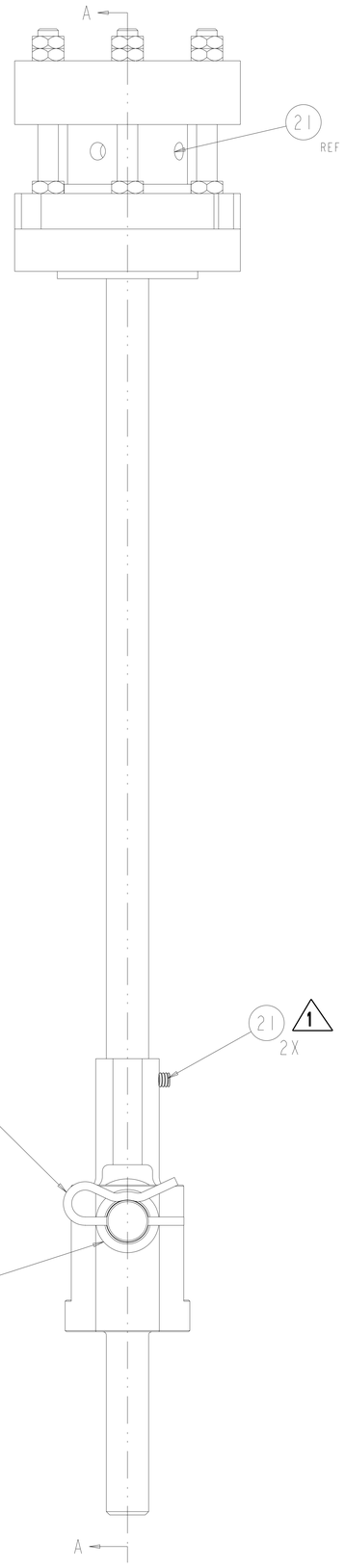


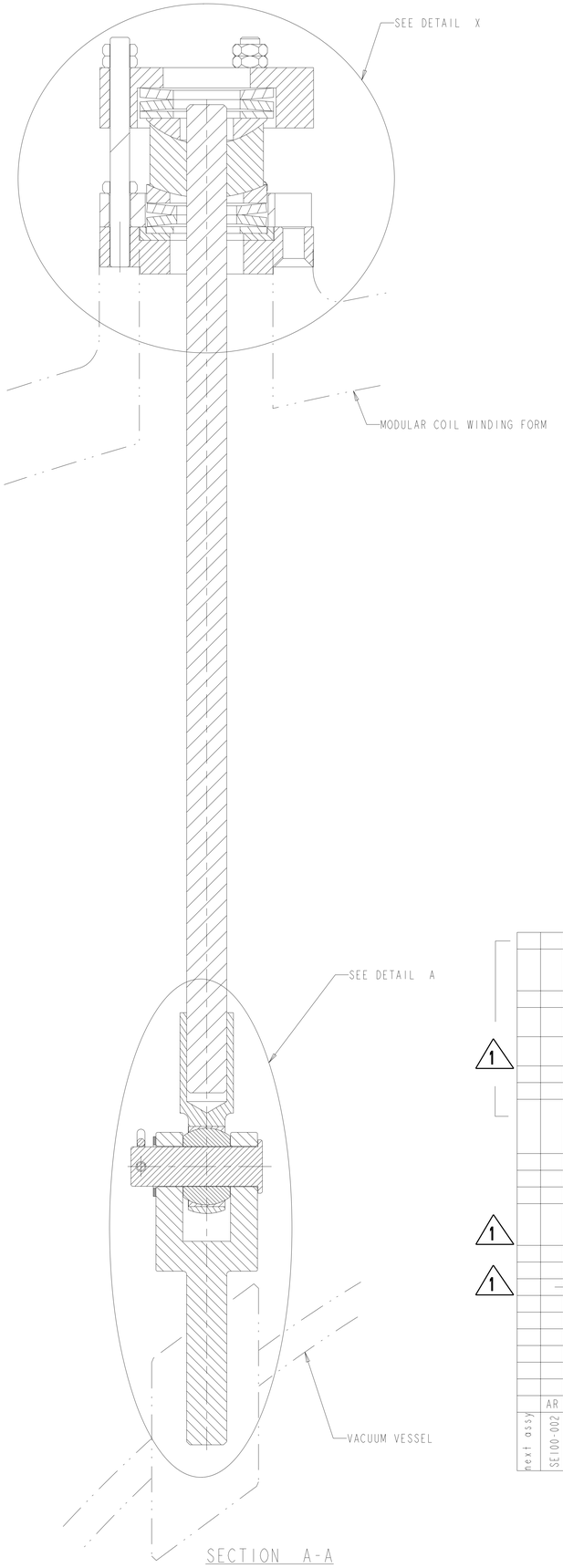
1 DETAIL X
SCALE 2.00



DETAIL A
SCALE 2.00



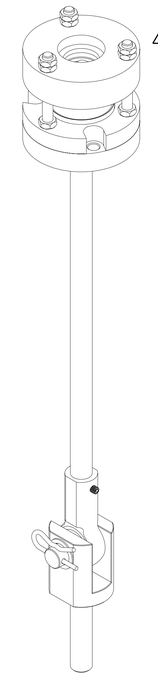
1 SCALE: 1.00



SECTION A-A

NOTES:

1. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M
2. DIMENSIONS ARE IN INCHES
3. DIMENSIONS APPLY AT TEMPERATURE OF 20-30°C (68-86°F)
4. APPROXIMATE TOTAL WEIGHT = 10 lbs
5. MAGNETIC PERMEABILITY SHALL NOT EXCEED 1.02 AS TESTED ON A SEVERN INDICATOR AVAILABLE FROM :
   SEVERN ENGINEERING
   555 OLD STAGE ROAD
   AUBURN, ALABAMA 36830



ISOMETRIC VIEW
SCALE 0.50

		3	SE124-075	VERTICAL UPPER SUPPORT STUD		22
		2	#92313A535	1/4-20 UNC X .375 LNG SET SCREW	MCMASTER-CARR P.O.BOX 549670 LOS ANGELES, CA. 90054-0960	21
		1	SE124-081	2.5 OD X 1.25 ID X .125 THK FLAT WASHER	UNS 31600 / ANSI B18.22.1	20
		2	SE124-079	2.50D X 1.25 ID DISC SPRING	KEY BELLEVILLE K2500-M-175-1	19
1		2	SE124-082	2.25 OD X 1.125 ID DISC SPRING	KEY BELLEVILLE K2250-L-168-1	18
		1	SE124-078	2.25 OD X 1.25 ID X .125 THK FLAT WASHER	UNS S31600 / ANSI B18.22.1	17
		1	SE124-076	VERTICAL UPPER SUPPORT SPACER		16
		1	#92391A778	HAIRPIN COTTER PIN	MCMASTER-CARR P.O.BOX 549670 LOS ANGELES, CA. 90054-0960	15
		1	Ø.75	WASHER, FLAT	300 SERIES SST / ANSI B18.22.1	14
		1	SE124-069	VERTICAL UPPER SUPPORT INSULATION WASHER		13
		1	SE124-068	VERTICAL UPPER SUPPORT INSULATION SPHERICAL WASHER		12
1		9	#94805A217	VERTICAL UPPER SUPPORT JAM NUT	MCMASTER-CARR P.O.BOX 549670 LOS ANGELES, CA. 90054-0960	11
		1	SE124-065	VERTICAL UPPER SUPPORT INSERT		10
		1	SE124-055	VERTICAL SUPPORT CLEVIS		9
1		~~3~~	~~SE124-037~~	~~VERTICAL UPPER SUPPORT STUD~~		~~8~~
		1	SE124-036	VERTICAL UPPER SUPPORT RETAINER RING		7
		1	SE124-034	VERTICAL UPPER SUPPORT SPHERICAL NUT		6
		1	SE124-033	VERTICAL UPPER SUPPORT SPHERICAL BEARING		5
		1	SE124-020	VERTICAL UPPER SUPPORT ROD		4
		1	SE124-014	VERTICAL SUPPORT ROD END, FEMALE		3
		1	SE124-013	VERTICAL SUPPORT CLEVIS PIN		2
next assy		AR	-1	VERTICAL UPPER SUPPORT ASSEMBLY		1
SE100-020		-	CAGE CODE / PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPECIFICATION	FIND NO
			← NEXT ASSEMBLY	PARTS LIST		

SE124-051 B

RELEASED FOR FABRICATION / INSTALLATION
PPPL Drafting: Jerry Siegel
Digitally signed by Jerry Siegel
DN: CN = Jerry Siegel, C = US, O = PPPL, Reason: I am approving this document
Date: 2005.03.08 08:10:02 -05'00'

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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	REVISE ASM AND DRAWING PER ECN 5283	GLL	09-07	MJC			PG					
0	ORIGINAL ISSUE	GHJ	3/3/05									

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	PAUL MILLER	08-17-04
DRW	PAUL MILLER	08-17-04
CHK	J.M.RAY	04-07-05
SECT	:	:
DEPT	:	:
PE	:	:
CR	:	:
PJ	:	:
REQ	:	:
PPPL DRFT	:	:
	:	:
	:	:
DRAWING APPROVALS		DATE

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

VERTICAL UPPER SUPPORT ASSEMBLY

VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
7	X10	5700	3	1	1	A	U

RELEASE LEVEL: Fabrication
SE124-051 REV 1