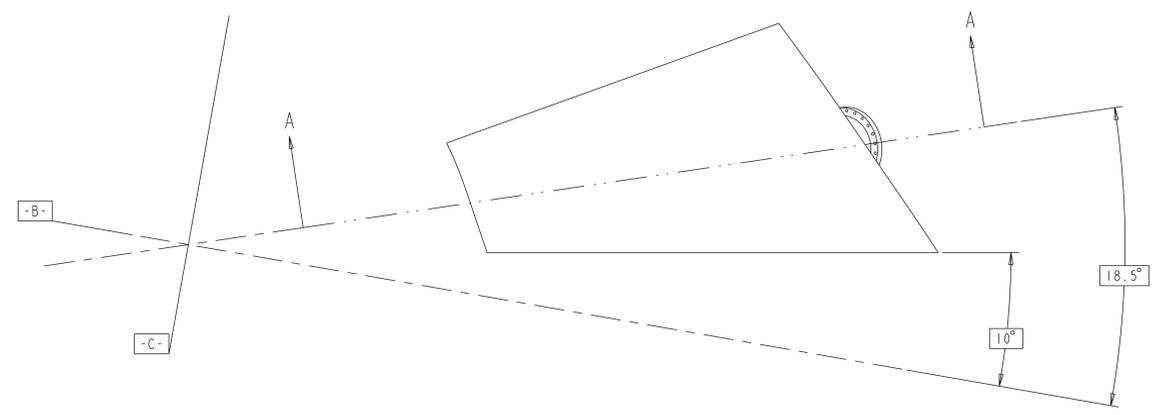
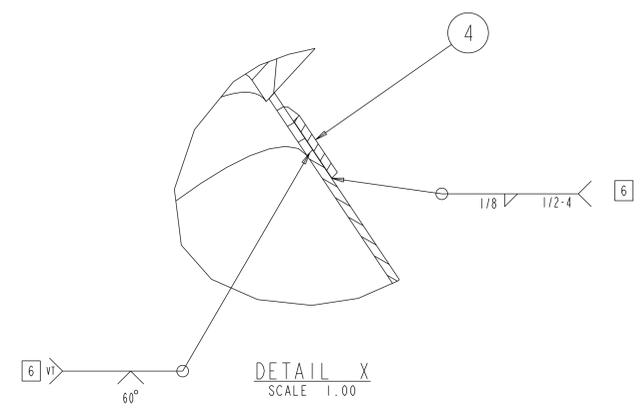
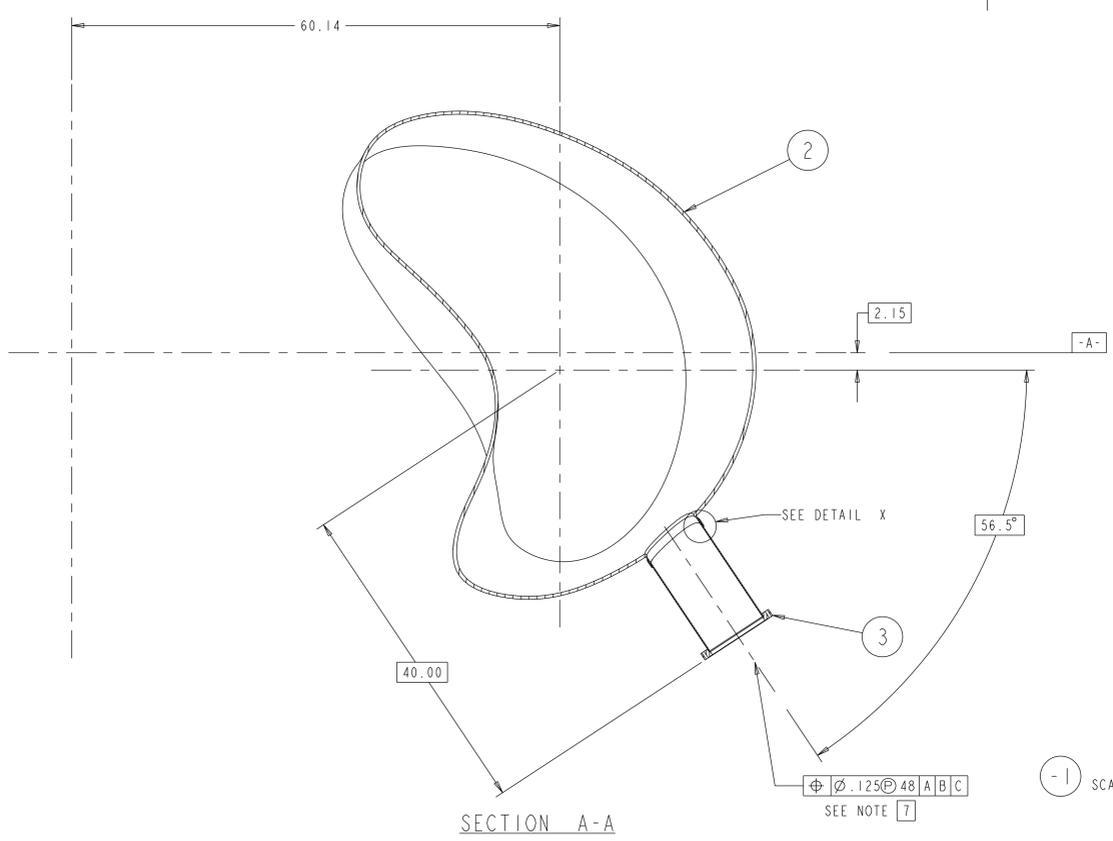
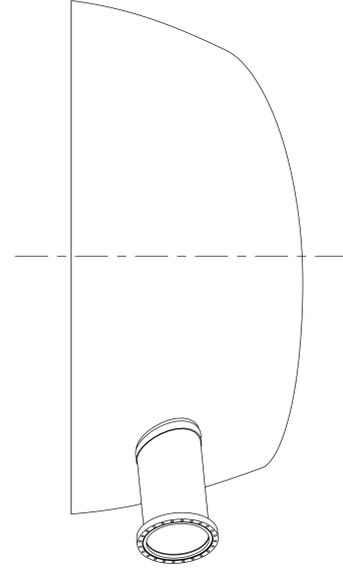
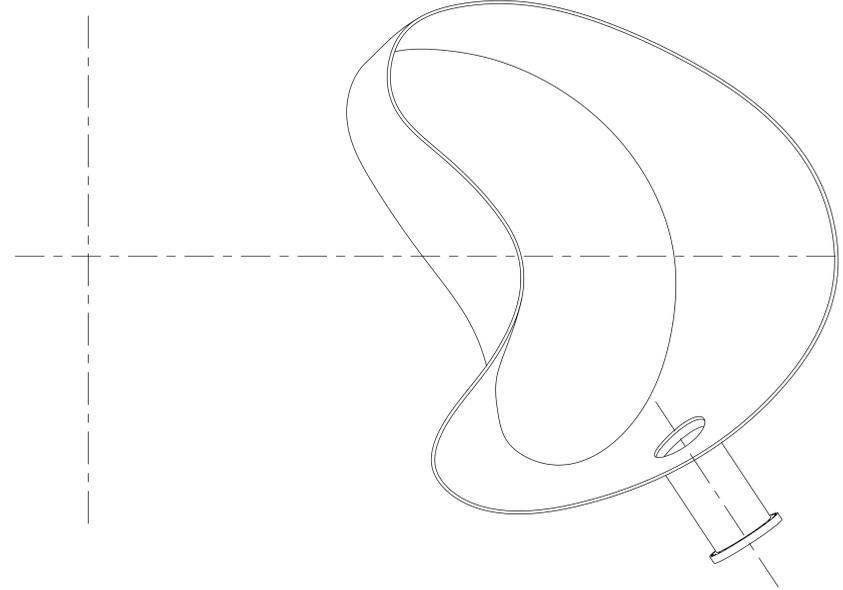


ISOMETRIC VIEW



- NOTES:
1. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
  2. DIMENSION ARE IN INCHES.
  3. REQUIREMENTS FOR FABRICATING THE VACUUM VESSEL PROTOTYPE ARE DEFINED IN THE DRAWINGS, MODELS, AND SPECIFICATION, NCSX-CSPEC-121-01.
  4. GEOMETRY OF VACUUM VESSEL PROTOTYPE IS DEFINED IN CAD MODELS/FILES SE121-001P.ASM, SE121-002P.ASM, AND SE121-003P.ASM.
  5. ITEMS -3 AND -4 FROM DRAWING SE121-001P.
  6. WELDING PROCEDURES AND PERFORMANCE QUALIFICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ASME CODE, SECTION IX. WELDS MAY BE MADE BY THE GTAW OR GMAW PROCESSES. WELDS USING SMAW PROCESS ARE NOT PERMITTED. WELD INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION NCSX-CSPEC-121-01-00.
  7. PROJECTED TOLERANCE ZONE STARTS AT INTERSECTION OF PORT AXIS AND VACUUM VESSEL OUTER SURFACE AND EXTENDS OUTWARD.



WELDING ENGINEER  
 APPROVED \_\_\_\_\_ DATE: \_\_\_\_\_

AR	IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
-5		WELD FILLER METAL			5
-4		WELD BACKING RING	UNS N06625		4
-3		PORT EXTENSION			3
-2		PORT MODIFICATION DETAILS			2
-1		PORT MODIFICATION WELDMENT			1

QV CLAUSE	DOCUMENTS REQUIRED	APPLICABLE TO PART NO
303	MATERIAL MILL TEST REPORT	
325	MATERIAL SELLER CERT	
326	SPECIM MATERIAL INSPECTION REPORT	
205	WELDING, INSPECTION, AND TEST PLAN	X
312	FIELD INSPECTION AND TEST PLAN	
321	WELD AND BRAZE INSPECTION REPORT	X
322	HEAT TREAT REPORT (W/CRAT)	
318	LEAK TEST REPORT	X
315	CLEANING CERT	X
318	DEVIATION REQUEST	X
319	NONCONFORMANCE REPORT	X
323	DIMENSIONAL REPORT	X
330	FUNCTIONAL TEST REPORT	
100	DOCUMENTATION	X

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF, ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES, AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

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

REV	DESCRIPTION	A-E	BY	CHK	SECT	DEPT	DATE	PE	REQ	DATE	ORNL	DATE	DOE	DATE	QA	CV	EC	EE	EM	IE	M	PD	SE	ST	XAD	PES

SCALE NOTED	DESIGNER: P. L. GORANSON	DATE: _____
TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN: G. H. JONES	
FRACTIONS: 1/16	CHK: M. J. COLE	
XX DECIMALS: ±.01	SECT: _____	
XXX DECIMALS: ±.005	DEPT: _____	
ANGLES: ±0°15'	DRFT: J. SIEGEL	
BREAK SHARP EDGES OR MAX FINISH: .125 UNLESS OTHERWISE SPECIFIED	VERSION NO. 9+	PLANT Y-12
	BLDG 9201-2	FL 2
	SHT 1	OF 1
	TYPE I	CLASS A
	RELEASE LEVEL WIP	REV 0

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 STELLERATOR EXPERIMENT  
 PROTOTYPE VACUUM VESSEL SUPPORT PORT MODIFICATIONS  
 WELDMENT  
 SE121-003P