

DATUM "A" = PLANE THRU "XY"  
 DATUM "B" = PLANE THRU "XZ"  
 DATUM "C" = PLANE THRU "YZ"

QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
34	-57	SILVER PLATED, 12-POINT BOLTS, .50-20UNF, 2.00 LG	INCO 718	ASTM A1014	57
218	-56	WASHER, Ø0.531 ID X Ø1.062 OD X .095 THICK	A286	ANSI 18.22.1	56
184	-55	NUT, 0.50 X 20UNF	GRADE 8	ASTM A194	55
2 SE121-095 VACUUM VESSEL SEAL DETAIL 54					
1	-53	O-RING, METAL, HELICOFLEX TYPE HNVT	HELICOFLEX PO BOX 9889 COLUMBIA, SC 29209 PHONE # 1-800-233-1722		53
1	-52	O-RING, METAL, HELICOFLEX TYPE HNVT			52
2	-51	CLEVIS BOSS "D"	UNS N06625		51
2	-50	CLEVIS BOSS "C"	UNS N06625		50
2	-49	CLEVIS BOSS "B"	UNS N06625		49
2	-48	CLEVIS BOSS "A"	UNS N06625		48
40	-47	BUTTON HD CAP SCREW #8-32UNC X .25 LG	300 SERIES SST		47
2	-46	O-RING, .211 OD, 95.51 LG +0.0/-0.25	VITON		46
2	-45	O-RING, .211 OD, 90.93 LG +0.0/-0.25	VITON		45
2	-44	O-RING, .211 OD, 117.82 LG +0.0/-0.25	VITON		44
2	-43	O-RING, .211 OD, 113.23 LG +0.0/-0.25	VITON		43
2	-42	O-RING, .211 OD, 63.12 LG +0.0/-0.25	VITON		42
2	-41	O-RING, .211 OD, 53.53 LG +0.0/-0.25	VITON		41
NEXT ASSEMBLY					

QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
1	191094	GASKET, COPPER 10.00 ID, PKG 10 REF 12 FLG			40
1	191019	GASKET, COPPER 8.01 ID, PKG 10 REF 10 FLG			39
1	191017	GASKET, COPPER 6.01 ID, PKG 10 REF 8.00 FLG	MDC VACUUM PRODUCTS CORP. 23842 CABOT BOULEVARD HAYWARD, CA. 94545-1651. OR EQUIVALENT		38
1	191013	GASKET, COPPER 4.01 ID, PKG 10 REF 6.00 FLG			37
1	191011	GASKET, COPPER 3.01 ID, PKG 10 REF 4.63 FLG			36
10	190059	BOLT SET 8.00 OD & 10.00 OD FLG 12PT BOLT, SILVER PLTG, PKG 25			35
12	190058	BOLT SET 4.63 OD & 6.00 OD FLG 12PT BOLT, SILVER PLTG, PKG 25	MDC VACUUM PRODUCTS CORP. 23842 CABOT BOULEVARD HAYWARD, CA. 94545-1651. OR EQUIVALENT		34
4	190165	HEX HD, .312-24UNC, 2.00 LG PKG 36 WITH NUTS & FLAT WASHERS			33
184	-32	SILVER PLATED, 12-POINT BOLTS, .50-20UNF, 3.5 LG	GRADE 660	ASTM A 453	32
2	FA10000133	REDUCING NIPPLE 10.00 TO 1.33	VARIAN VACUUM TECHNOLOGIES		31
4	FA08000133	REDUCING NIPPLE 8.00 TO 1.33	LEXINGTON, MA 02421 OR EQUIVALENT		30
10	FA06000133	REDUCING NIPPLE 6.00 TO 1.33			29
2	FA04620133	REDUCING NIPPLE 4.63 TO 1.33			28
27					
4	130093	CONFLAT, 12.00 OD, TAPPED			26
2	130033	CONFLAT, 10.00 OD, TAPPED	MDC VACUUM PRODUCTS CORP. 23842 CABOT BOULEVARD HAYWARD, CA. 94545-1651. OR EQUIVALENT		25
4	130031	CONFLAT, 8.00 OD, TAPPED			24
10	130026	CONFLAT, 6.00 OD, TAPPED			23
2	130022	CONFLAT, 4.63 OD TAPPED			22
21					
2 SE121-013 VACUUM VESSEL FLANGE DETAIL					
2	-20	ELLIPTICAL HD, 18.00 OD X .375 WALL	BRIGHTON TRU-EDGE HEADS 4955 SPRING GROVE AVE CINCINNATI, OHIO 45232 PHONE # 800 543-1644		20
AR	-19	TUBE, 10.00 X .250 WALL	UNS 06625		19
AR	-18	TUBE, 8.00 X .188 WALL	UNS 06625		18
AR	-17	TUBE, 6.00 X .188 WALL	UNS 06625		17
AR	-16	PIPE, 2.5 SCH 40	UNS 06625		16
AR	-15	PIPE, 3.5 SCH 40	UNS 06625		15
AR	-14	PLATE, .500 THK	UNS 06625		14
AR	-13	PLATE, .375 THK	UNS 06625		13
4	SE122-112	VACUUM VESSEL 12 IN COVER TEST FLANGE DETAIL			12
2	SE121-102	VACUUM VESSEL BLANK OFF COVER SEAL WELDMENT			11
1	SE122-172	VACUUM VESSEL NB PORT COVER TEST FLANGE DETAIL			10
1	SE122-173	VACUUM VESSEL PORT NB SEAL RETAINER DETAIL			9
1	SE122-072	VACUUM VESSEL PORT NB FLANGE DETAIL			8
2	SE122-149	VACUUM VESSEL PORT 4 COVER TEST FLANGE WELDMENT			7
2	SE122-057	VACUUM VESSEL PORT 4 SEAL RETAINER DETAIL			6
2	SE122-049	VACUUM VESSEL PORT 4 FLANGE DETAIL			5
2	SE122-104	VACUUM VESSEL PORT 12 COVER TEST FLANGE WELDMENT			4
2	SE122-019	VACUUM VESSEL PORT 12 SEAL RETAINER DETAIL			3
2	SE122-018	VACUUM VESSEL PORT 12 FLANGE DETAIL			2
1					
NEXT ASSEMBLY					

- NOTES:
- INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
  - DIMENSIONS ARE IN INCHES.
  - FABRICATION, INSPECTION, TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION NCSX-CSPEC-121-02 AND STATEMENT OF WORK NCSX-SOW-121-03.
  - PROFILE TOLERANCE ON OUTER VACUUM SURFACE IS BILATERAL, i.e. 0.1875 EITHER SIDE OF REFERENCE SURFACE.
  - THE MINIMUM THICKNESS AFTER FORMING SHALL BE .338. THINNING BELOW THE STOCK THICKNESS SHALL NOT OCCUR OVER MORE THAN 10% OF THE TOTAL POLOIDAL CIRCUMFERENCE OF ANY CROSS-SECTION
  - PORT LENGTH DIMENSIONS SHOWN ARE FINAL DIMENSIONS AFTER PORTS ARE CUT OFF AND REASSEMBLED. TOLERANCE OF LENGTH IS  $\pm 0.125$ . INSPECTED DIMENSION SHALL AS SHOWN ON DRAWING PLUS 0.50".
  - PORT 4 DIMENSIONS SHOWN ARE INSPECTED DIMENSIONS.
  - SUPPLIED BY PPPL
  - ALL DIMENSIONS TO BE MET AT DWG SE120-002.
  - REDUCING NIPPLES ARE OPTIONAL. BLANK FLANGES MAY BE SUBSTITUTED.
  - A TOLERANCE DEVIATION OF  $+ 3/16 - 7/16$  AT THE PERIMETER OF PORT 4 AND PORT 12 WHICH RETURNS TO THE NOMINAL SHELL PROFILE WITHIN 8" OF THE PERIMETER OF THE PORT, WILL BE ACCEPTED.
  - A TOLERANCE DEVIATION OF  $+ 3/16 - 5/16$  AT THE PERIMETER OF THE ROUND PORTS, NB PORT, AND THE DOME PORT WHICH RETURNS TO THE NOMINAL SHELL PROFILE WITHIN 8" OF THE PERIMETER OF THE PORT, WILL BE ACCEPTED.

REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REG	DATE	ORNL	DOE	DATE
1	REVISED PER ECN-4945 & ECN-4961											
2	REVISED PER ECN-4933											

WELDING ENGINEER  
 APPROVED: R. PARSELLS DATE: 6/04

SCALE NOTED

DES. P. L. GORANSON  
 DRW. M.J. COLE & G.H. JONES

UT-BATTELLE  
 NATIONAL COMPACT STELLARATOR EXPERIMENT  
 VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY

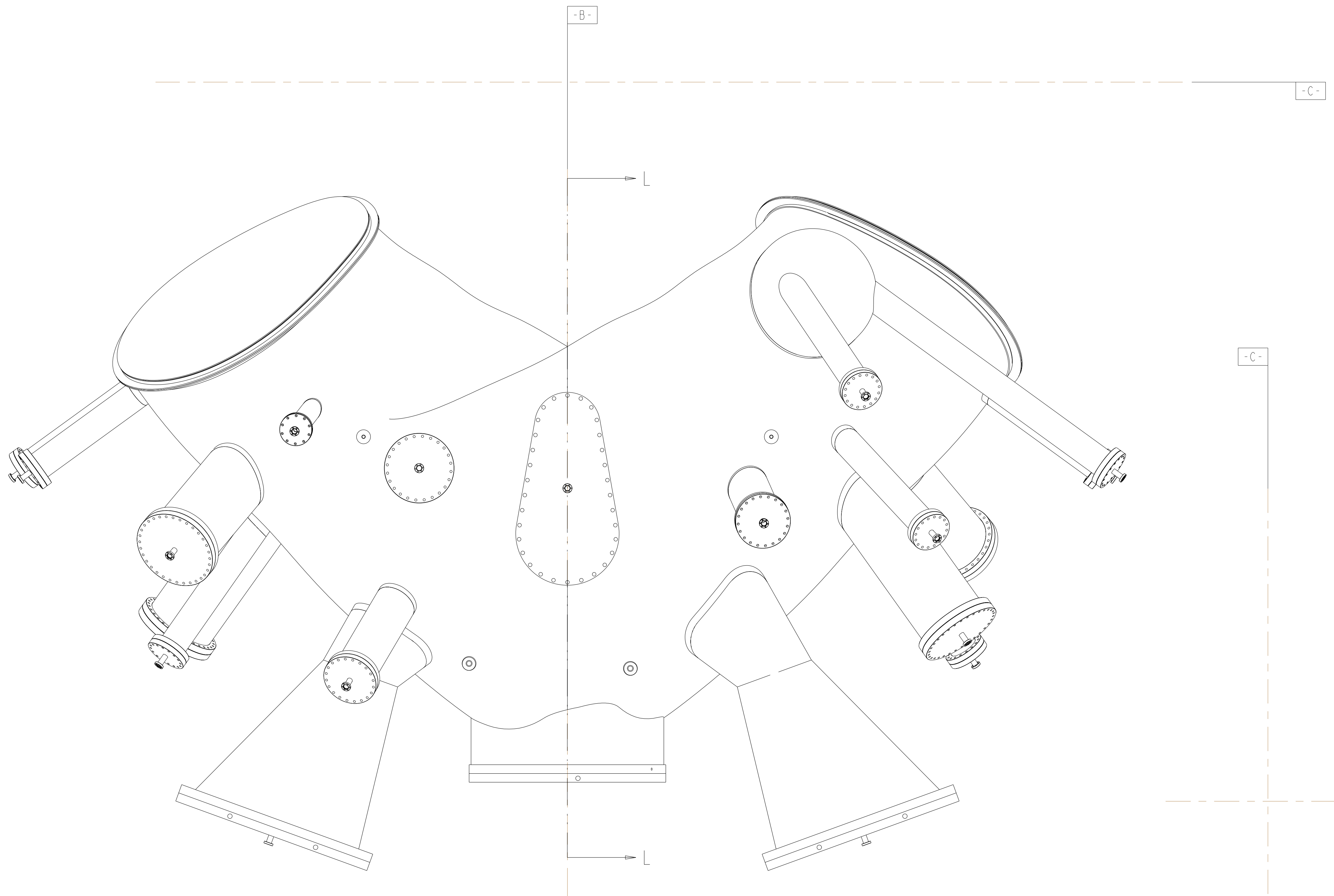
VERSION NO. 4  
 PLANT X-10  
 BLDG 5700  
 FL 3  
 SHT 19  
 TYPE A  
 CLASS U  
 REV 2

THIS DRAWING PRODUCED ON PRO-ENGINEER

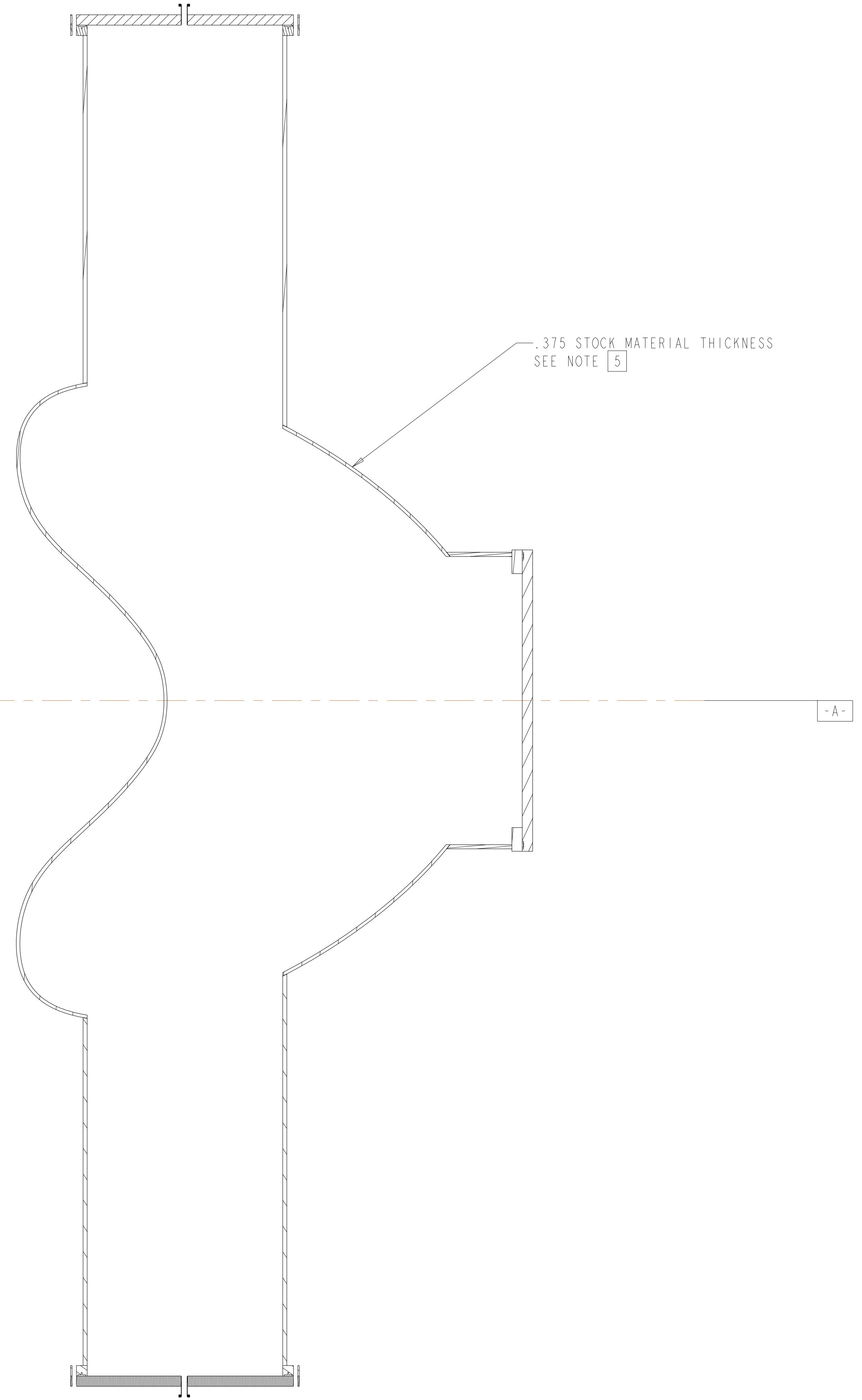
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FOR NOTES AND PARTS LIST SEE SHEET 1



TOP VIEW



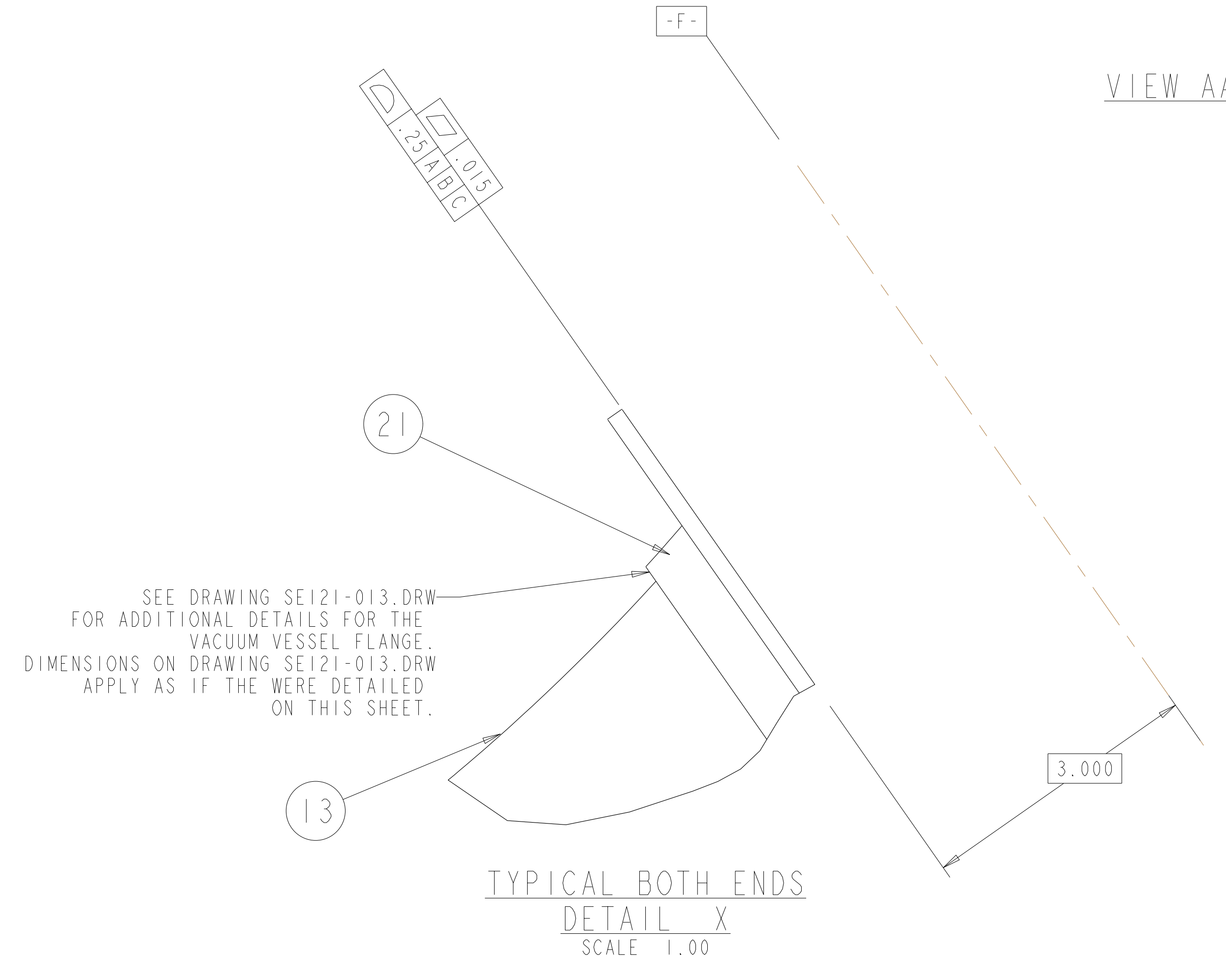
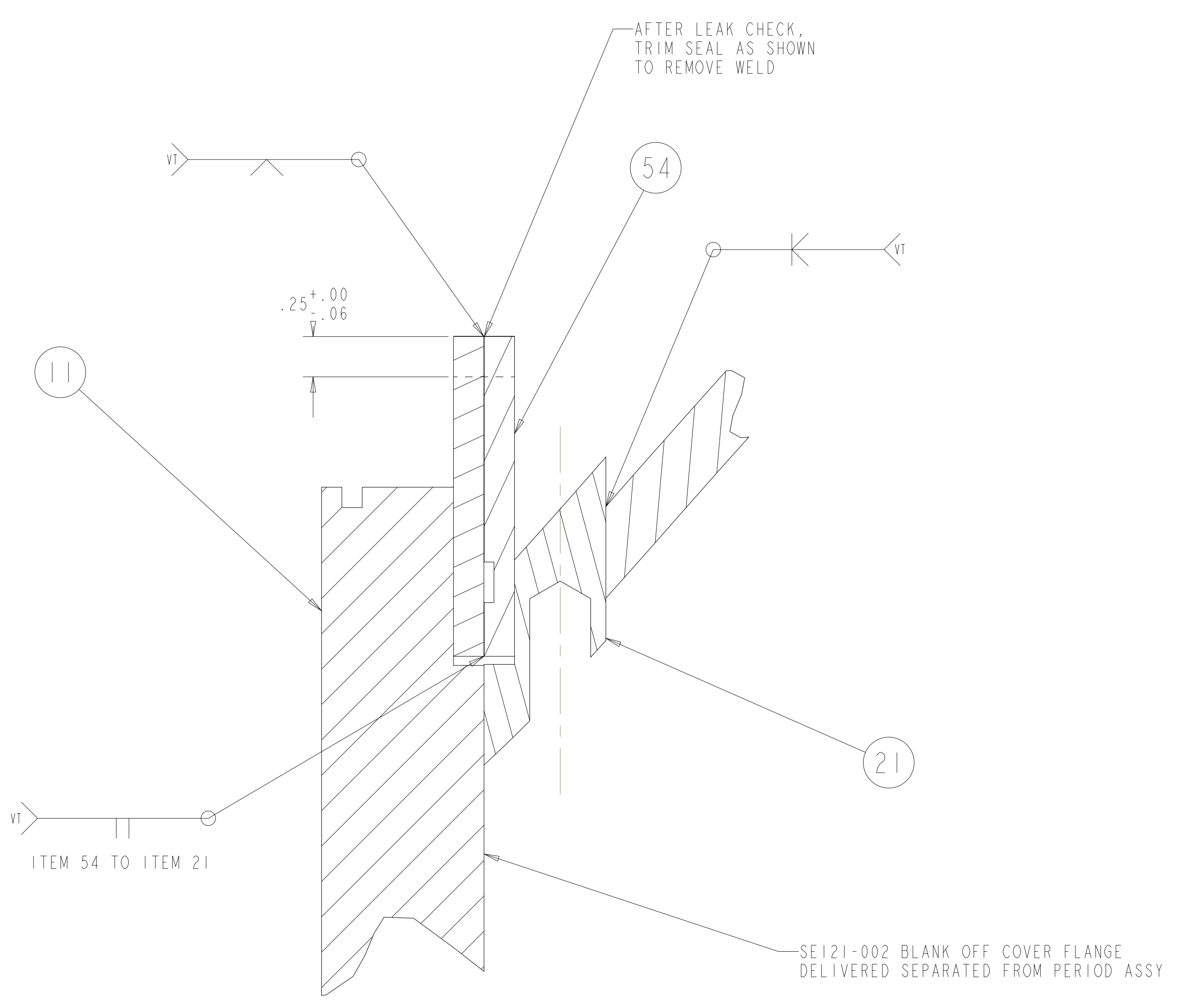
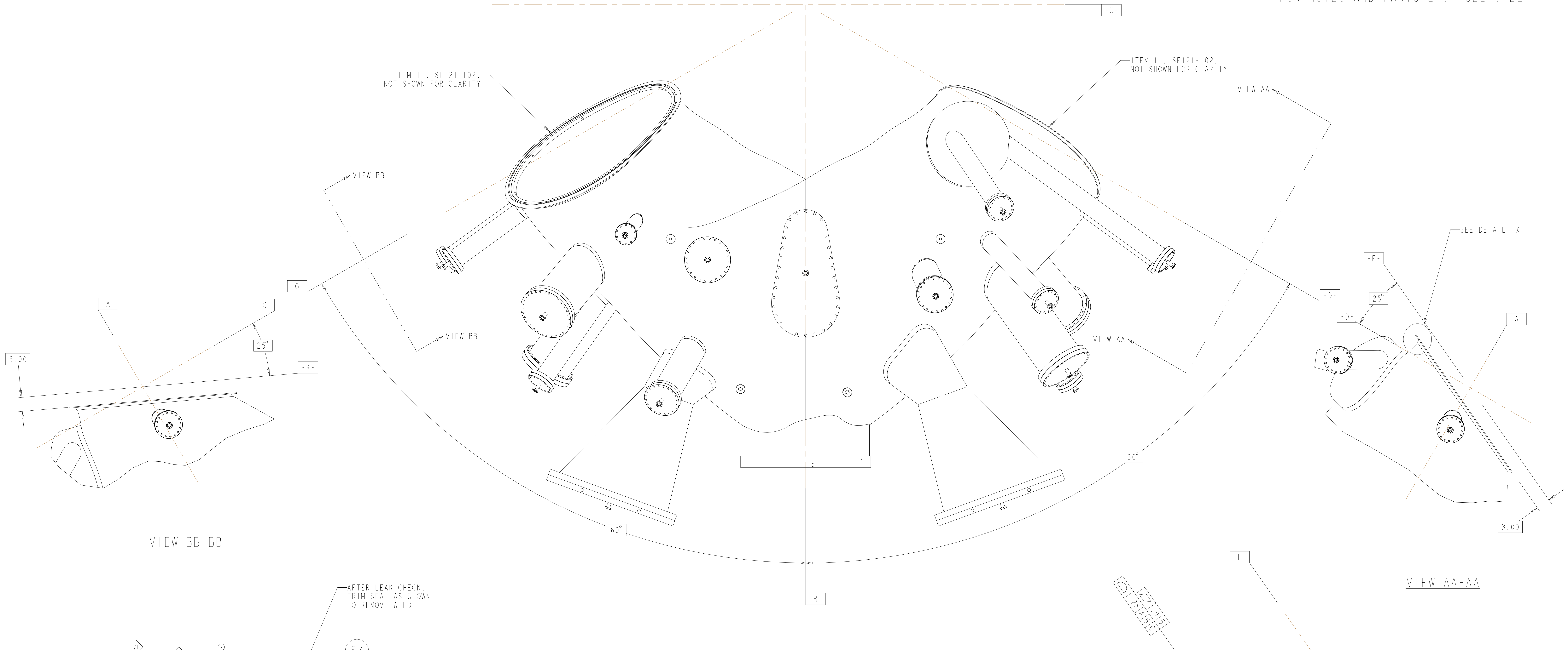
SECTION L-L  
 VESSEL THICKNESS

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 VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
4	X-10	5700	3	2 19	A	U
RELEASE LEVEL		SE120-004			REV	
WIP					2	

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SE120-004

FOR NOTES AND PARTS LIST SEE SHEET 1



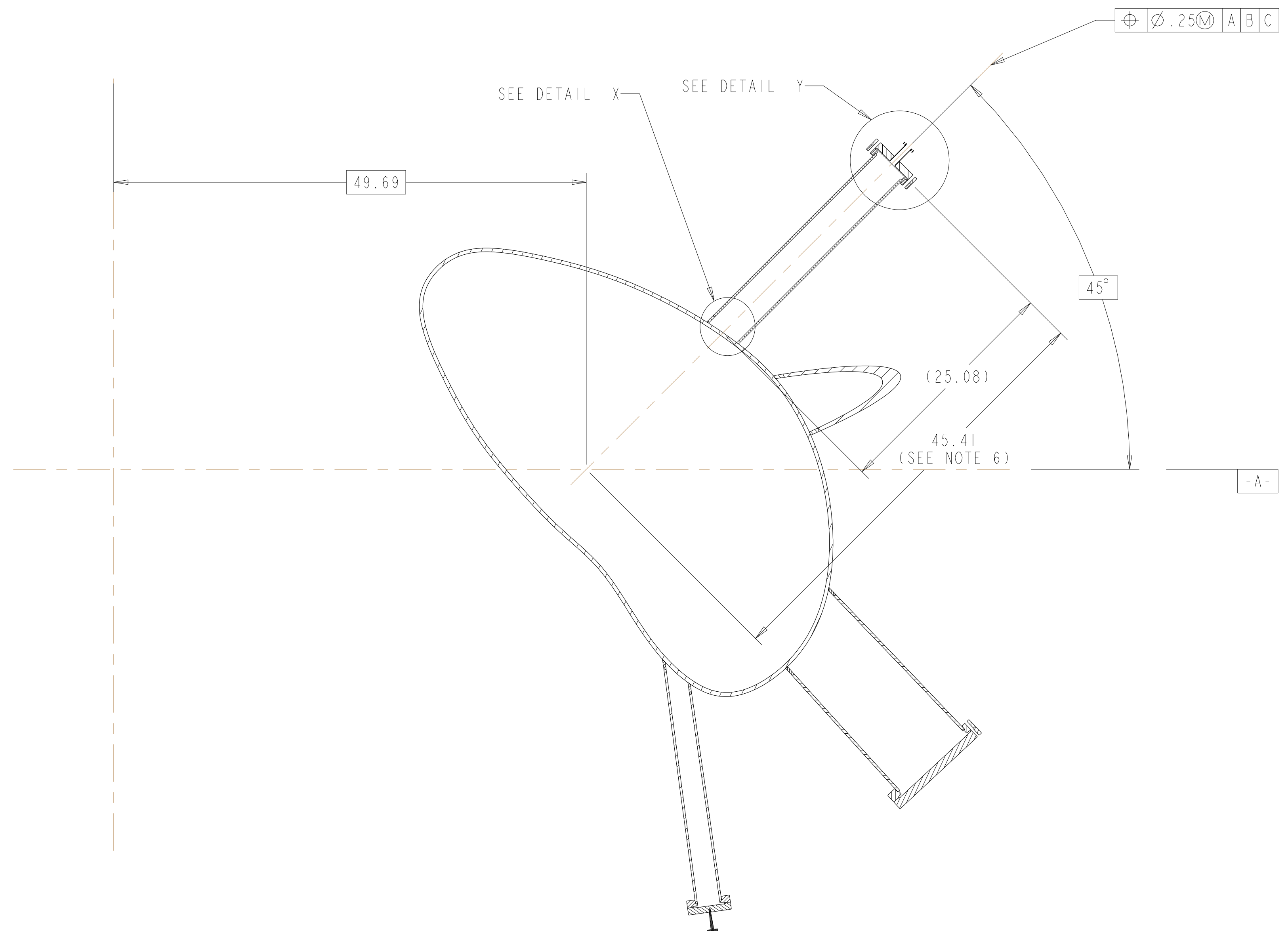
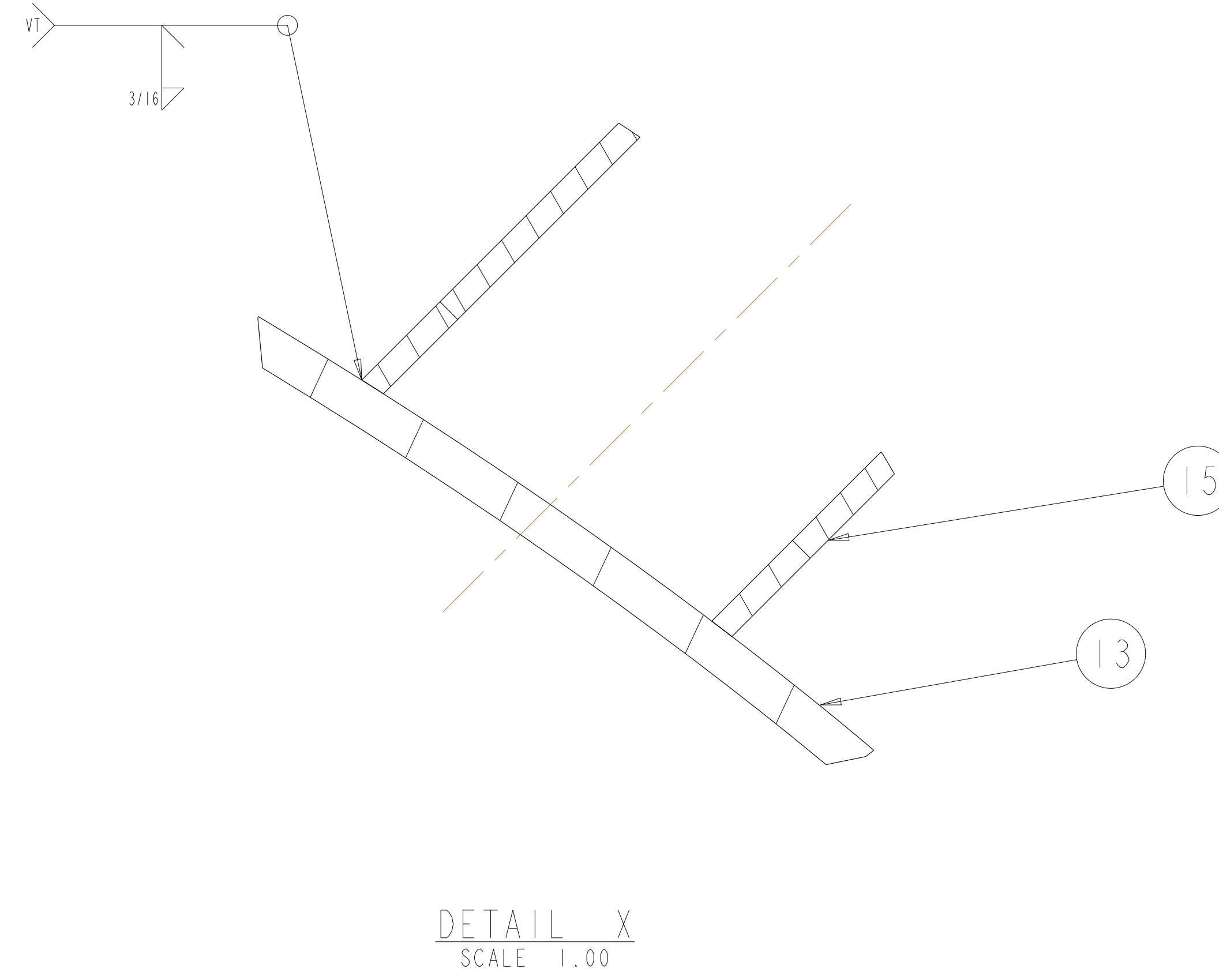
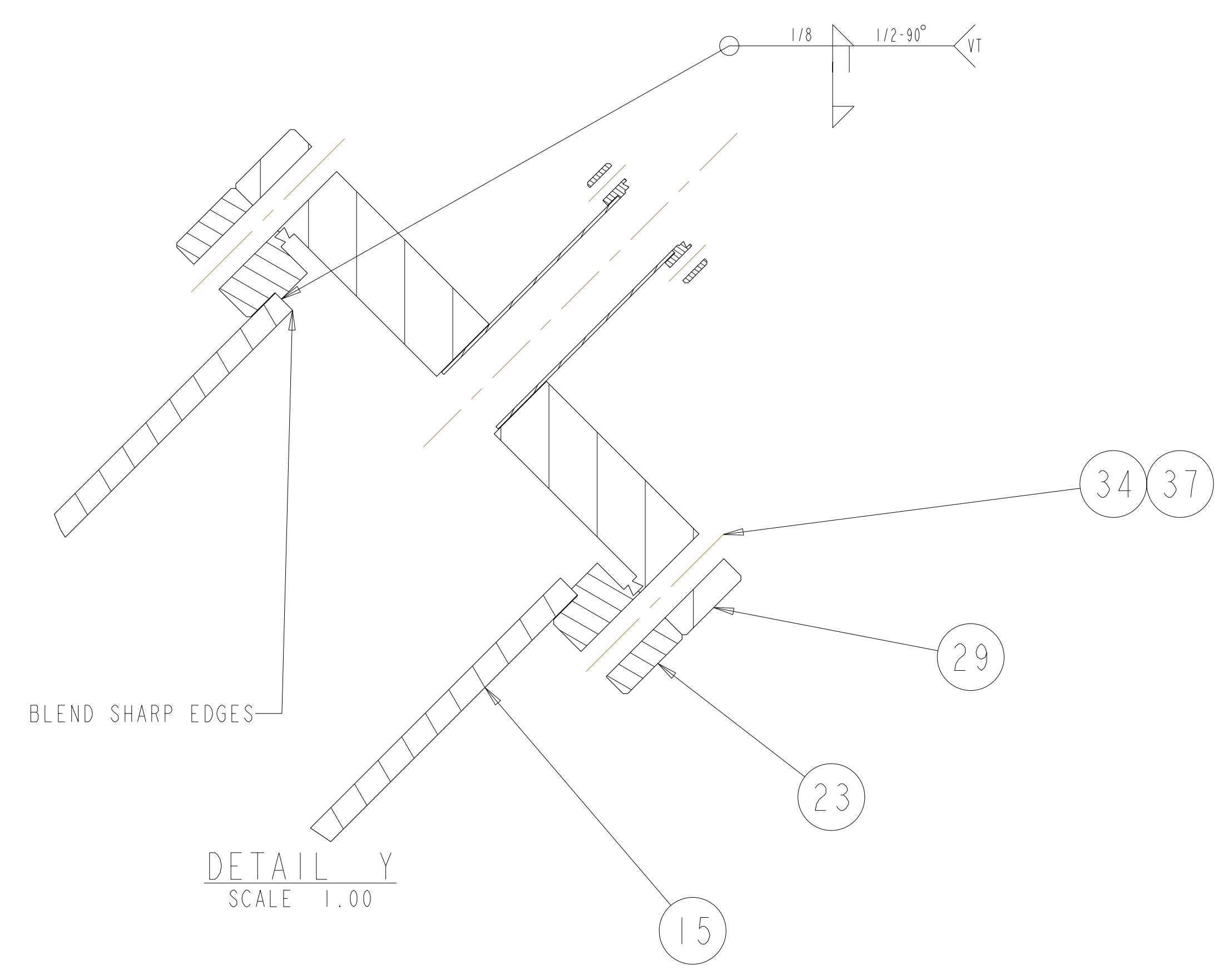
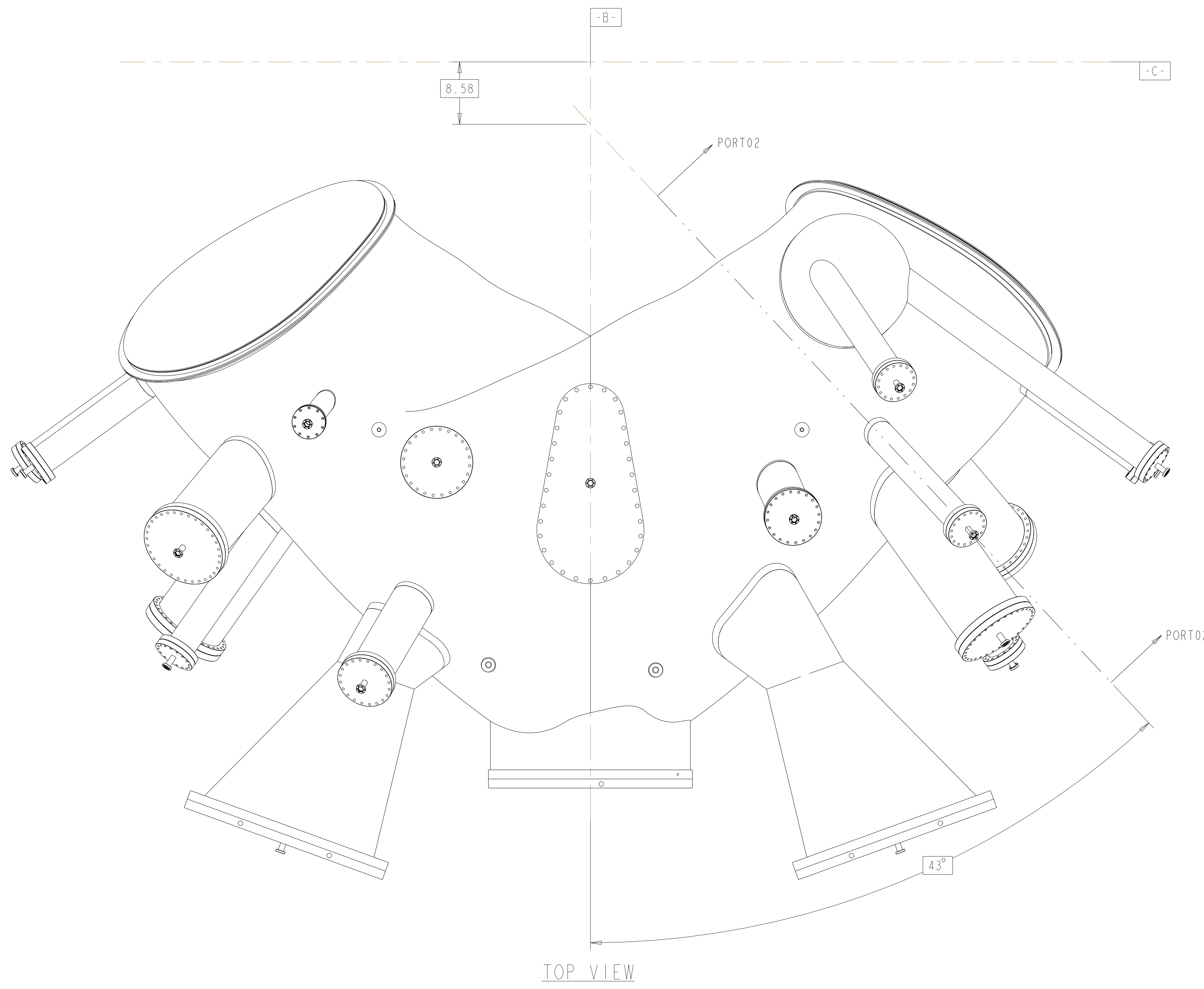
Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee PROJECT NAME						
NATIONAL COMPACT STELLARATOR EXPERIMENT VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
4	X-10	5700	3	3 19	A	U
RELEASE LEVEL	SE120-004					REV
WIP						2

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FOR PARTS LIST AND NOTES SEE SHEET 1.

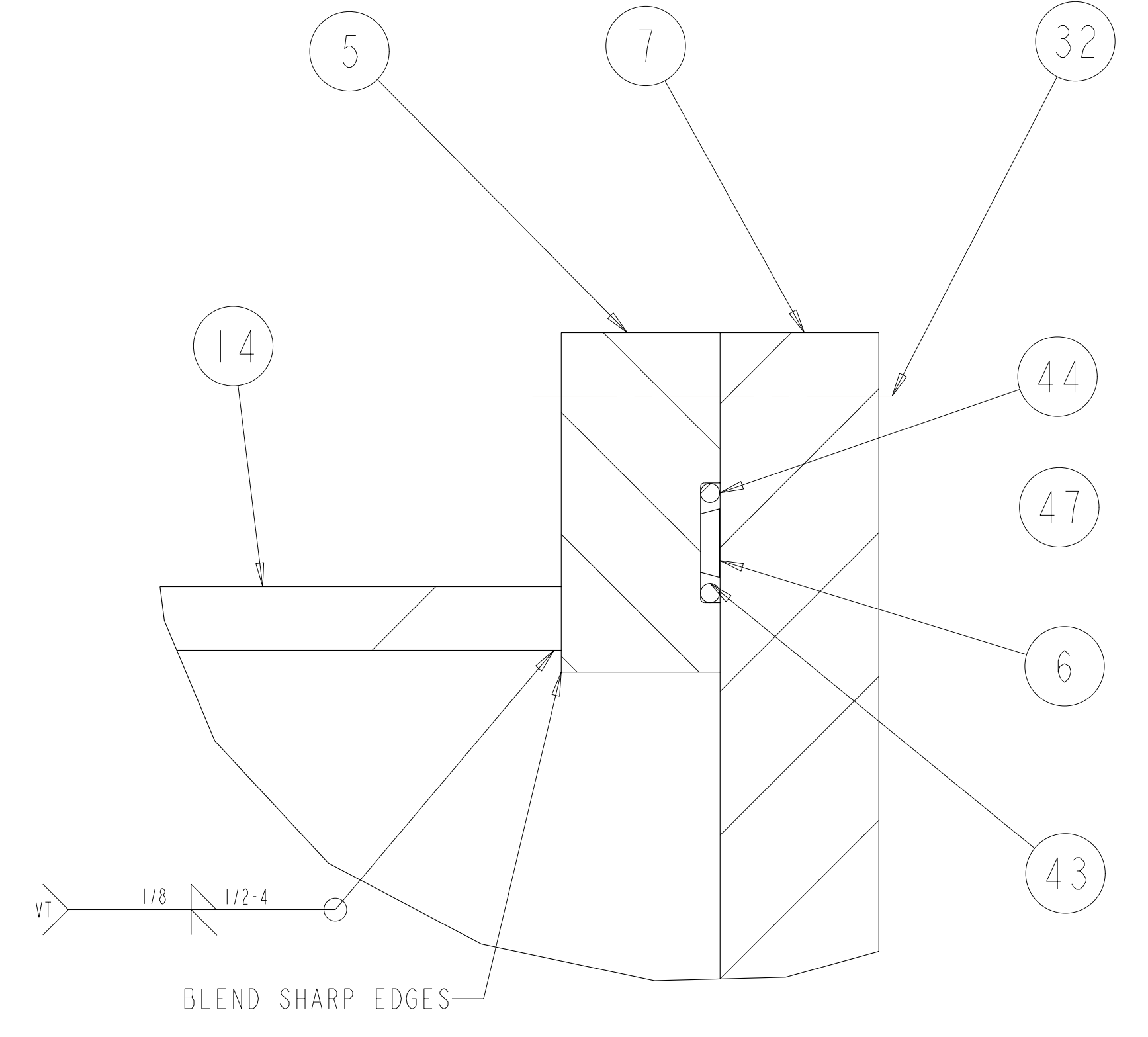
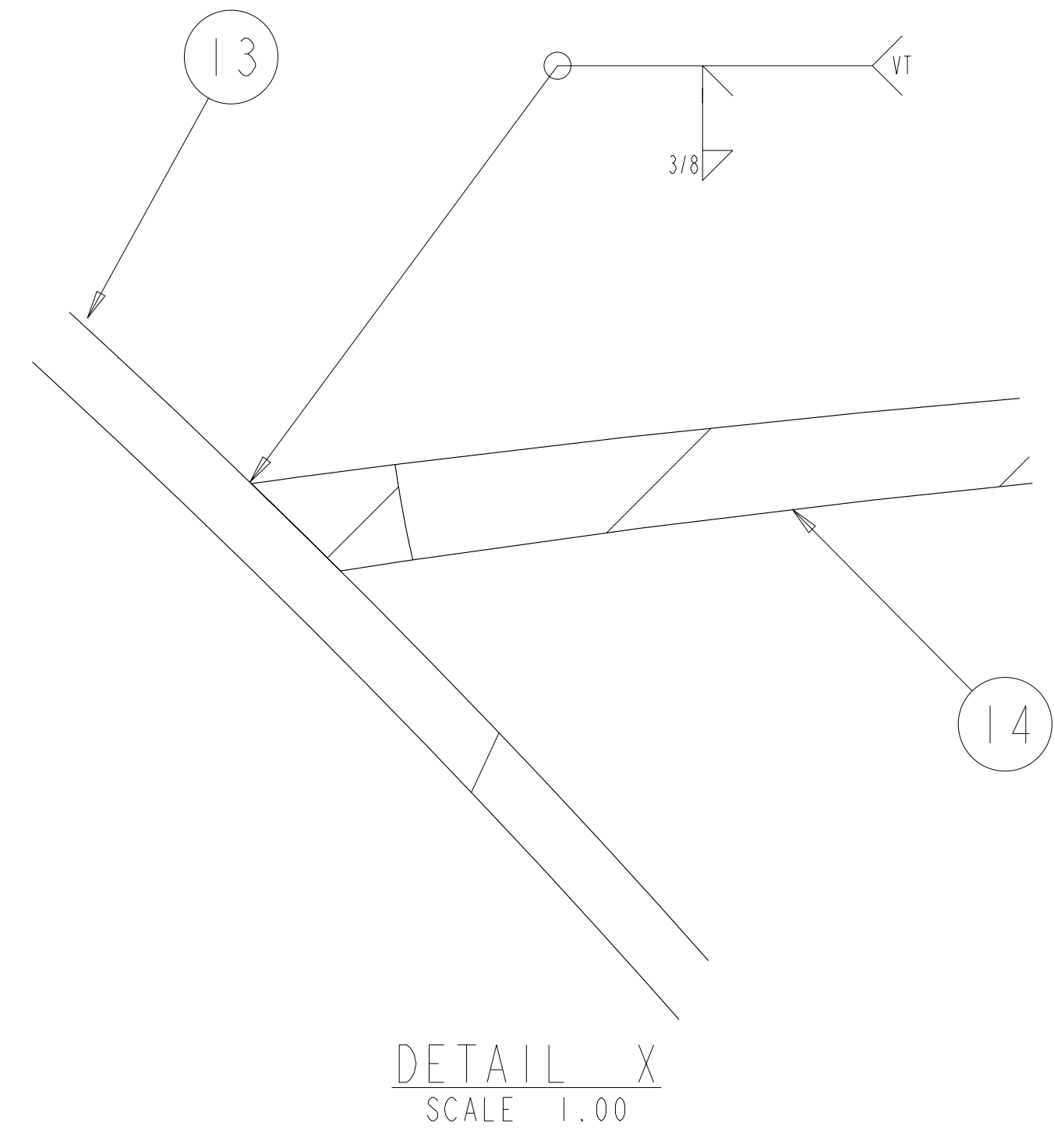
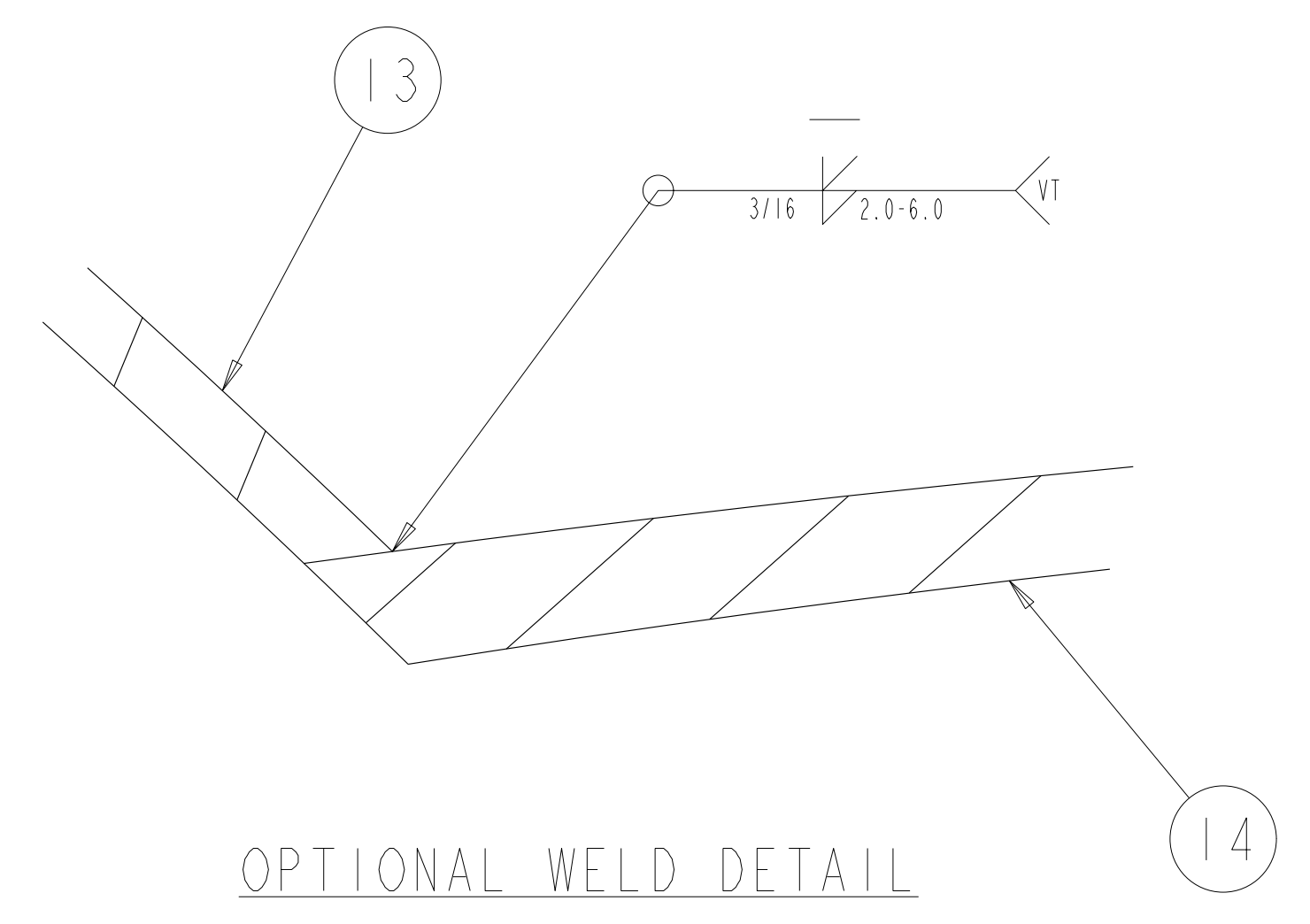
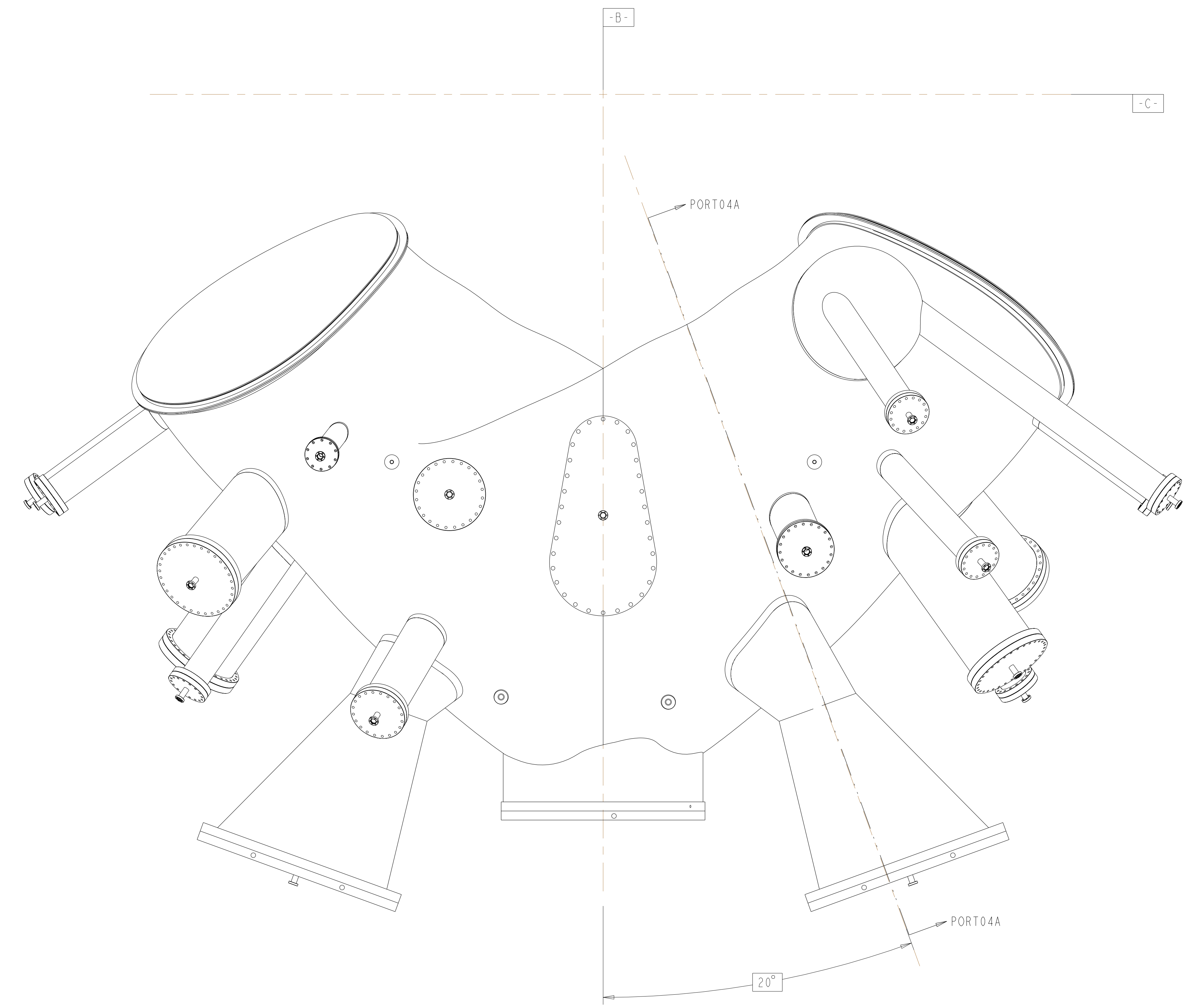


Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee PROJECT NAME						
NATIONAL COMPACT STELLARATOR EXPERIMENT VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
4	X-10	5700	3	4 19	A	U
RELEASE LEVEL		SEI20-004			REV	
WIP					2	

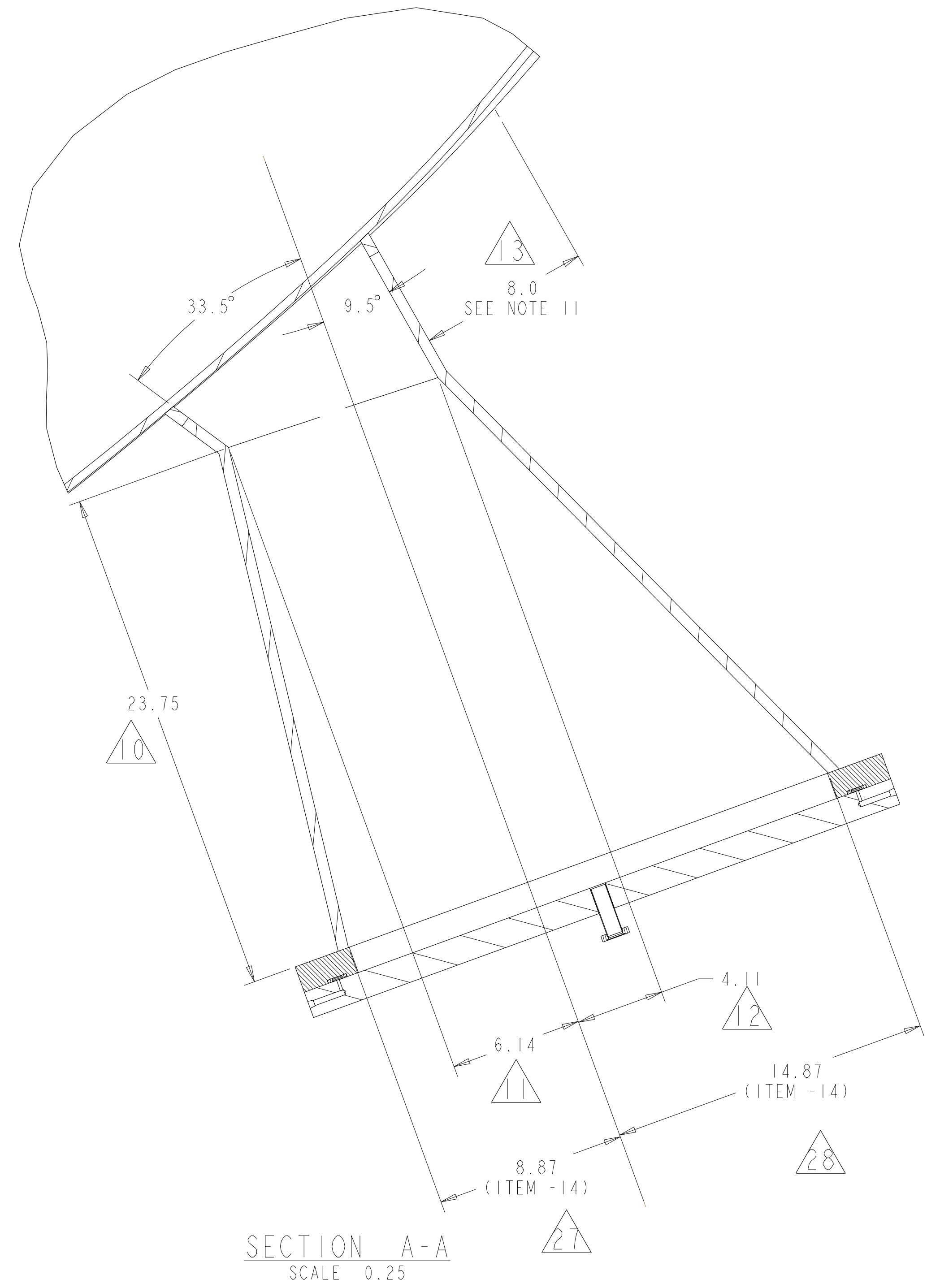
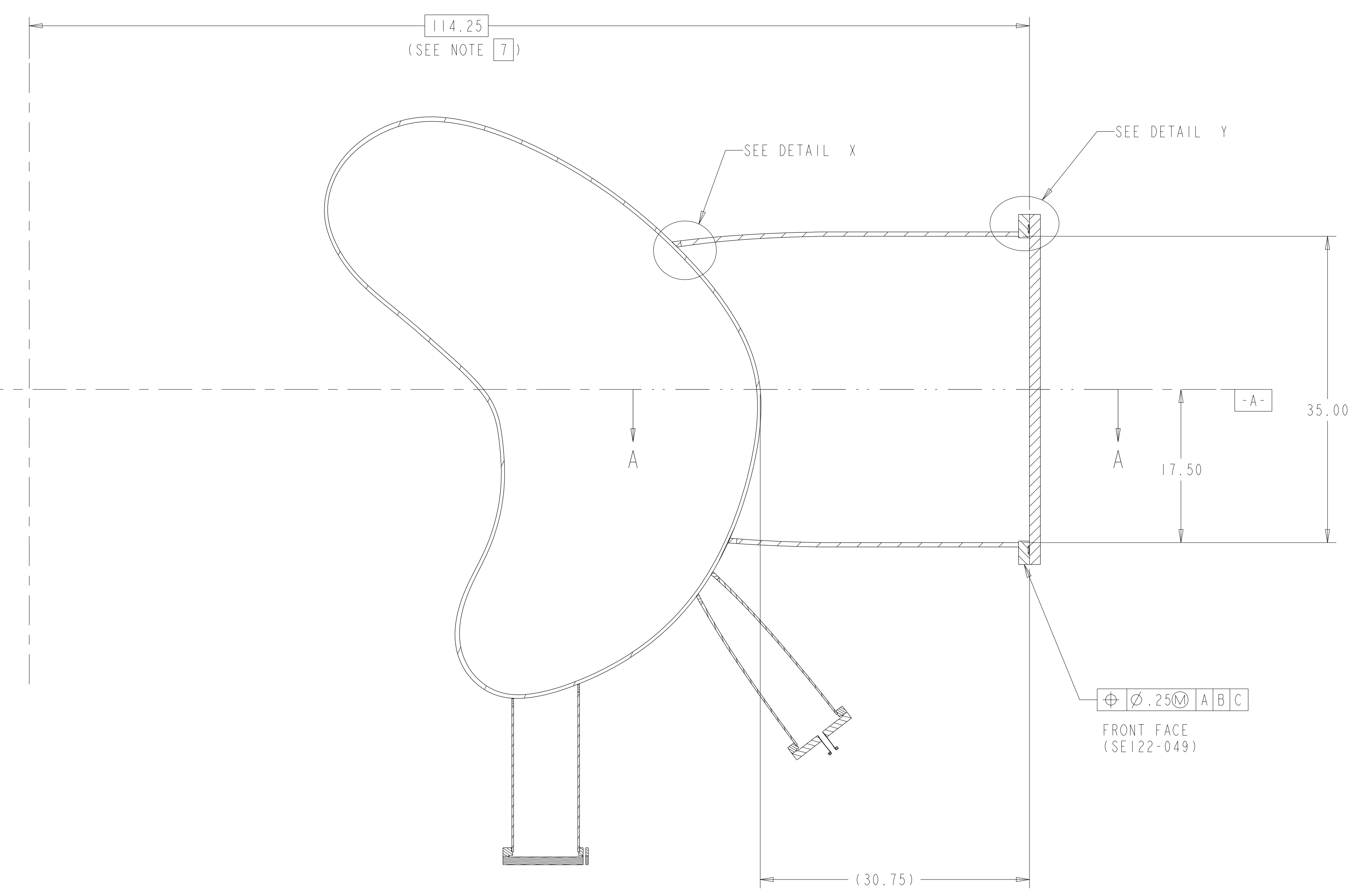
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SEI20-004

FOR PARTS LIST AND NOTES SEE SHEET 1.



TOP VIEW



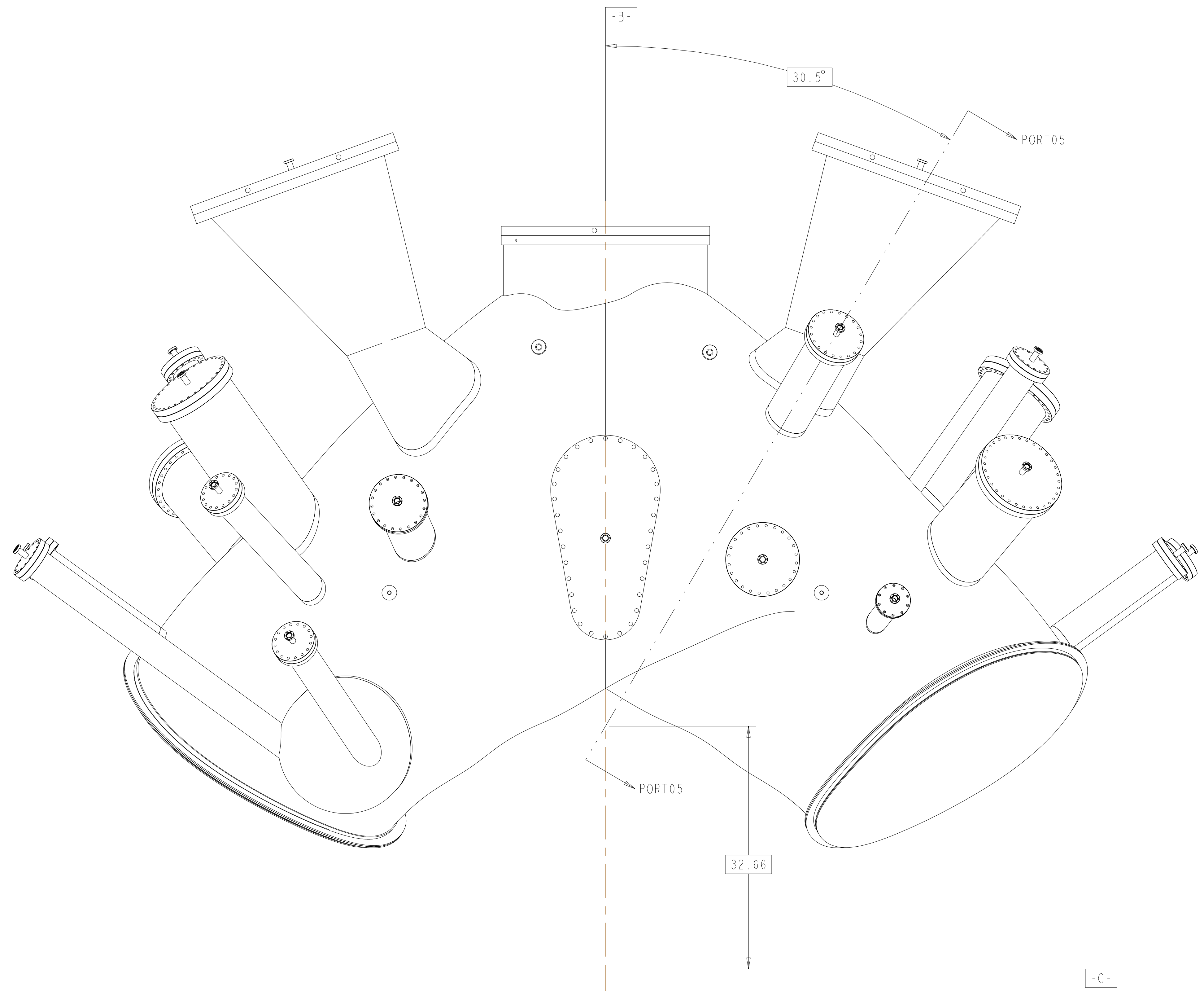
TYPICAL PORT 4A AND 4B SECTION PORT04A-PORT04A

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NATIONAL COMPACT STELLERATOR EXPERIMENT VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO. 4	PLANT X-10	BLDG 5700	FL 3	SHT OF 5 19	TYPE A	CLASS U
RELEASE LEVEL WIP	SE120-004				REV 2	

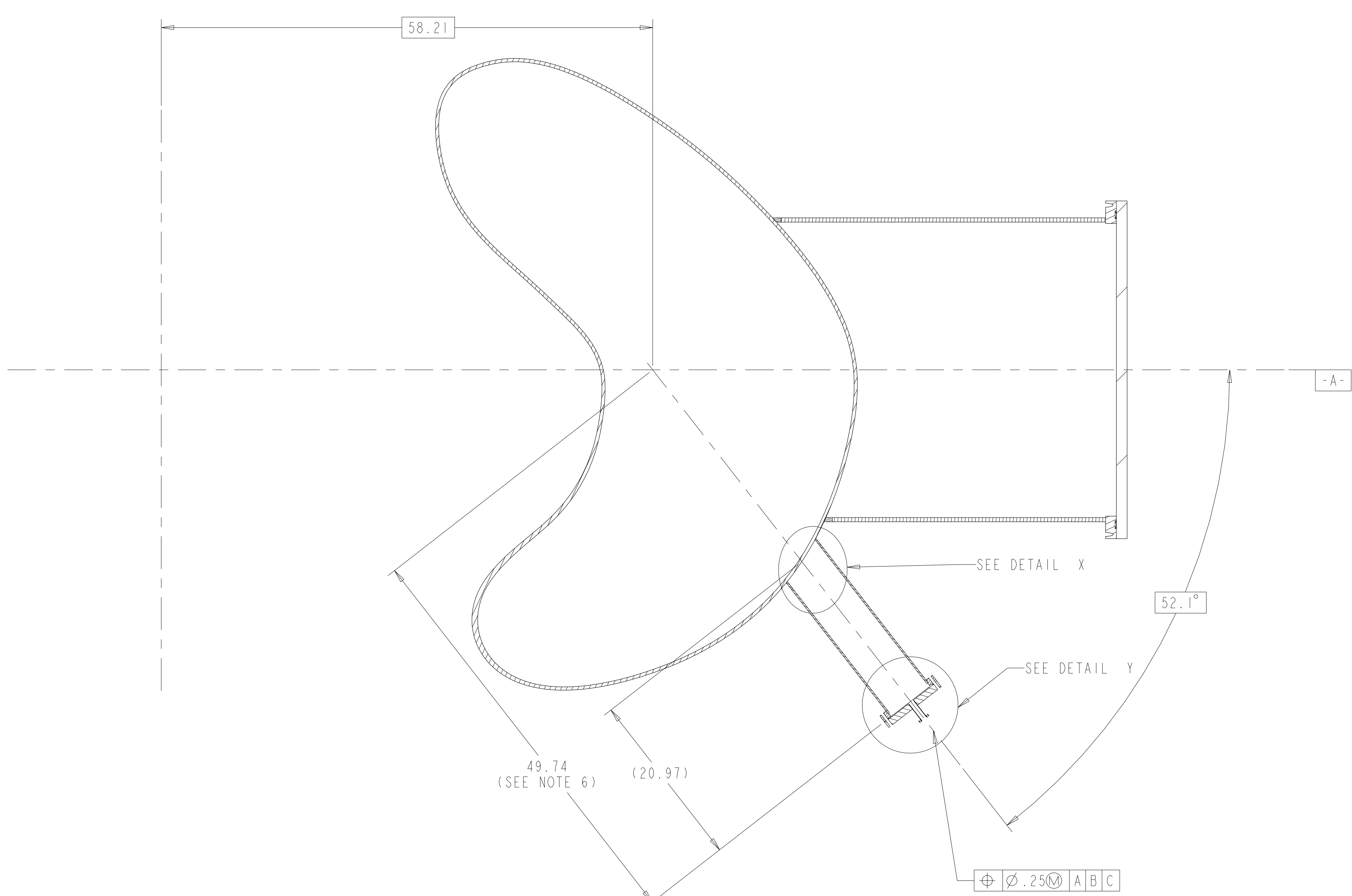
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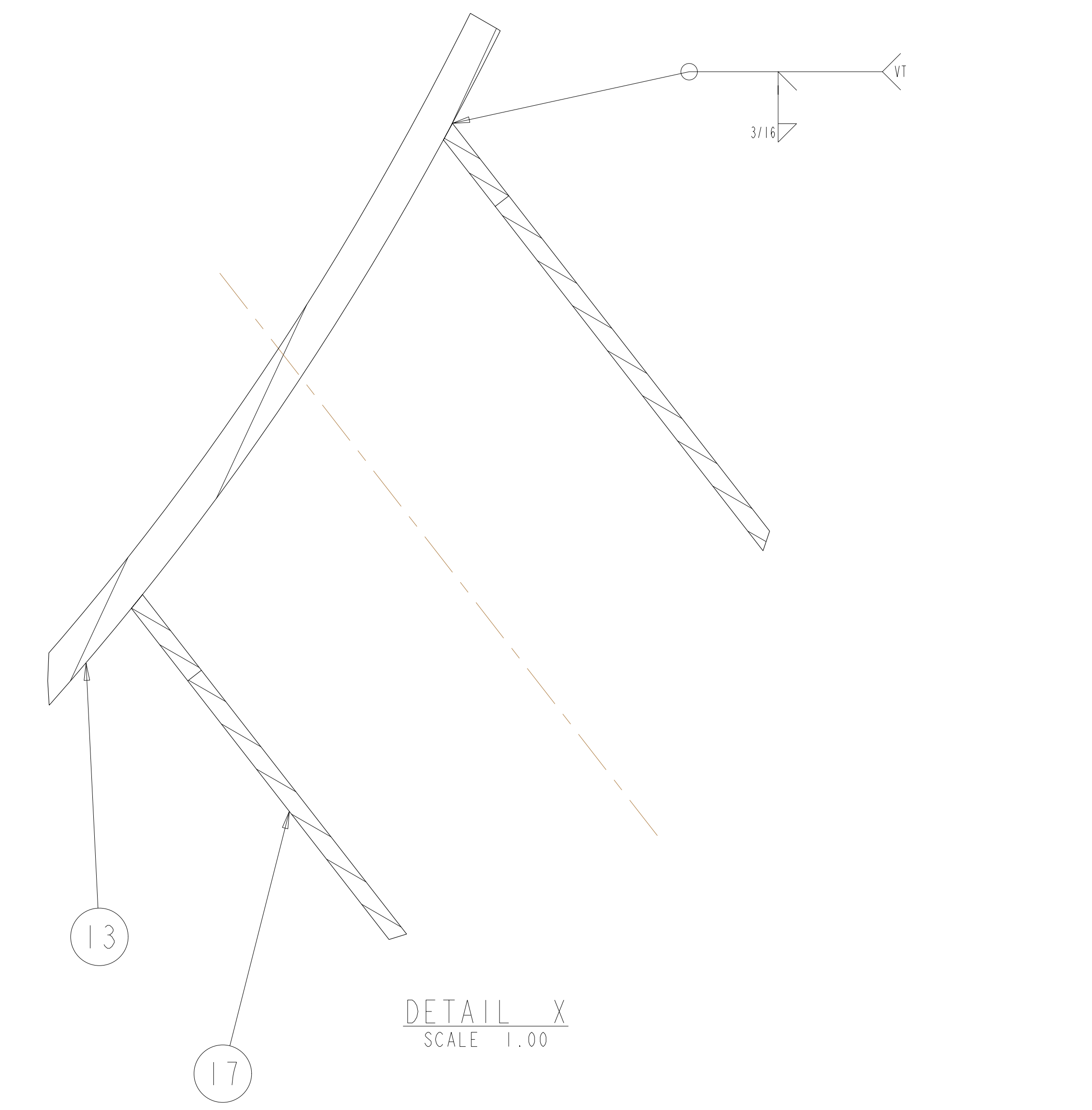


BOTTOM VIEW

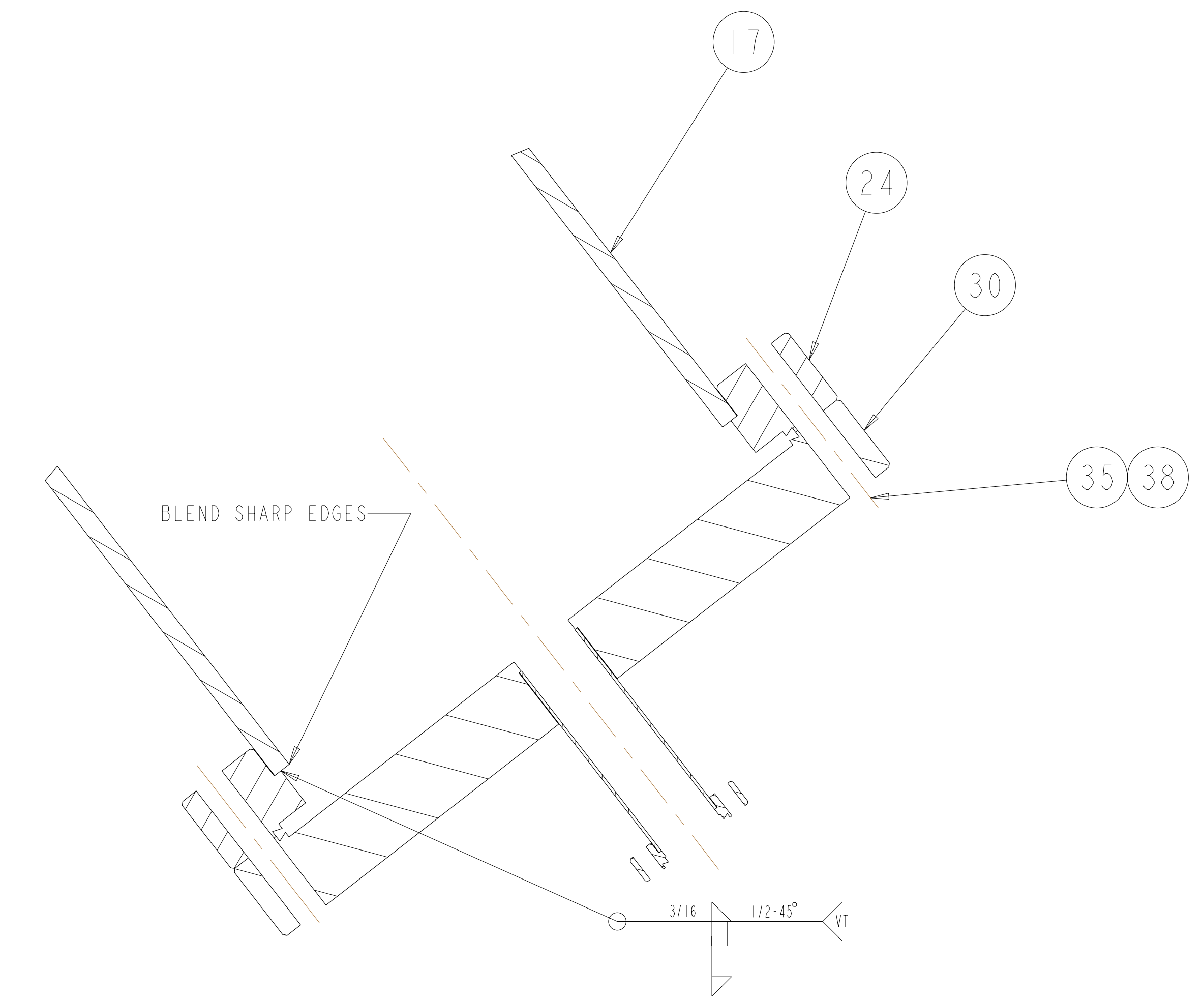


TYPICAL PORT 5A AND 5B SECTION PORT05-PORT05

FOR PARTS LIST AND NOTES SEE SHEET 1.



DETAIL X  
SCALE 1.00

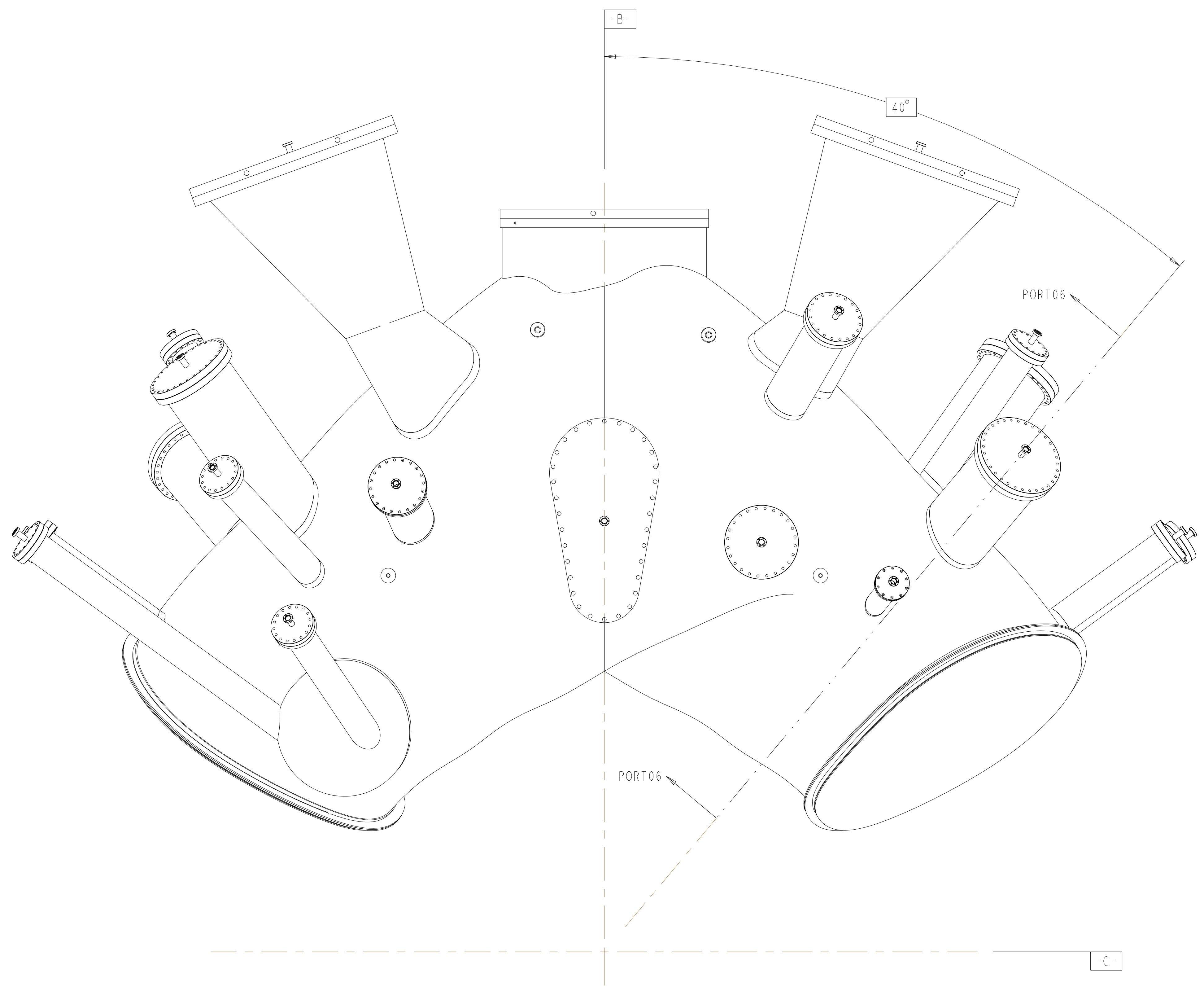


DETAIL Y  
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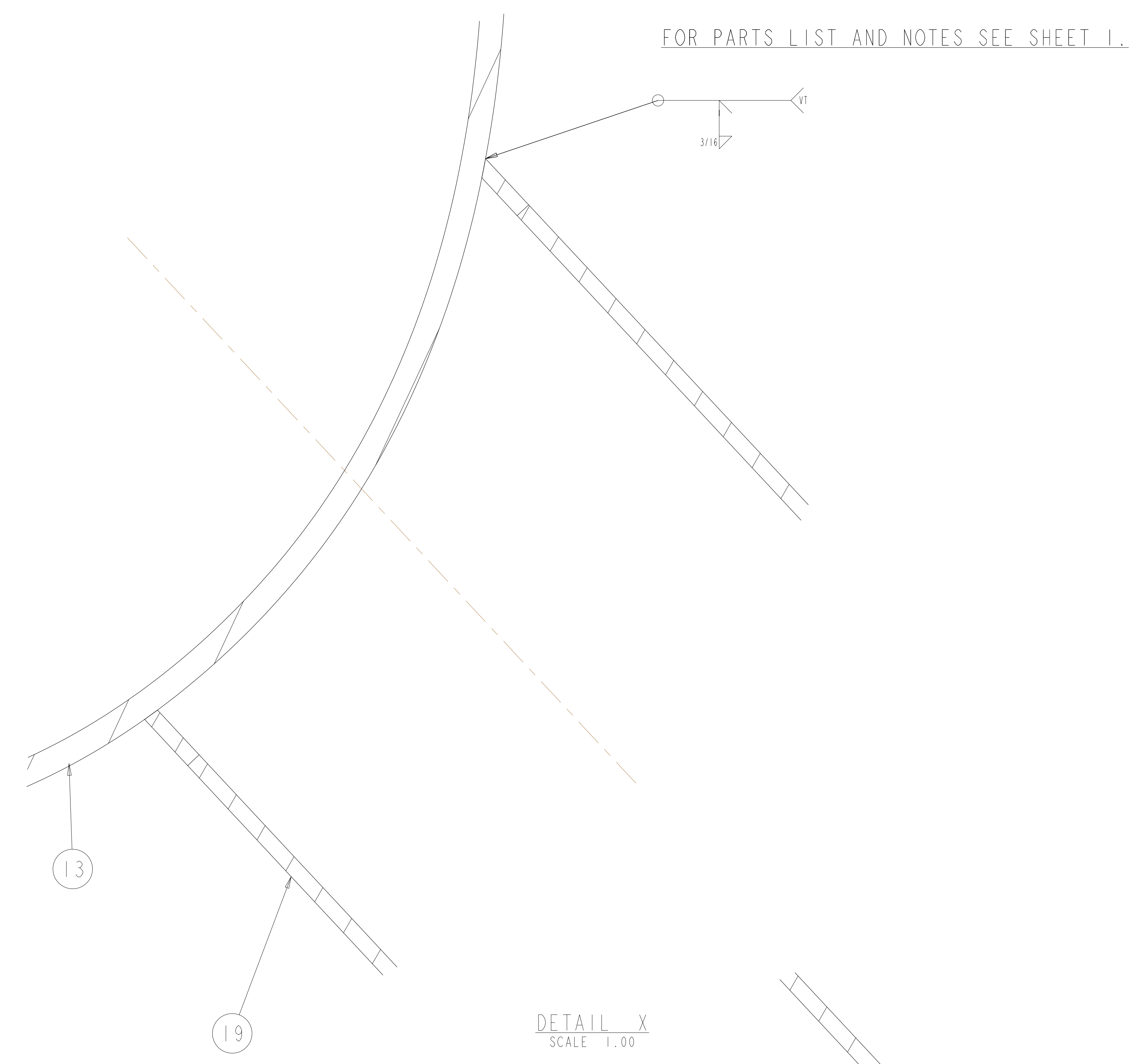
<b>UT-BATTELLE</b>		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee					
PROJECT NAME							
NATIONAL COMPACT STELLARATOR EXPERIMENT							
VACUUM VESSEL							
PERIOD INSPECTION AND LEAK CHECK							
ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
4	X-10	5700	3	6	19	A	U
RELEASE LEVEL	SEI20-004						REV
WIP							2

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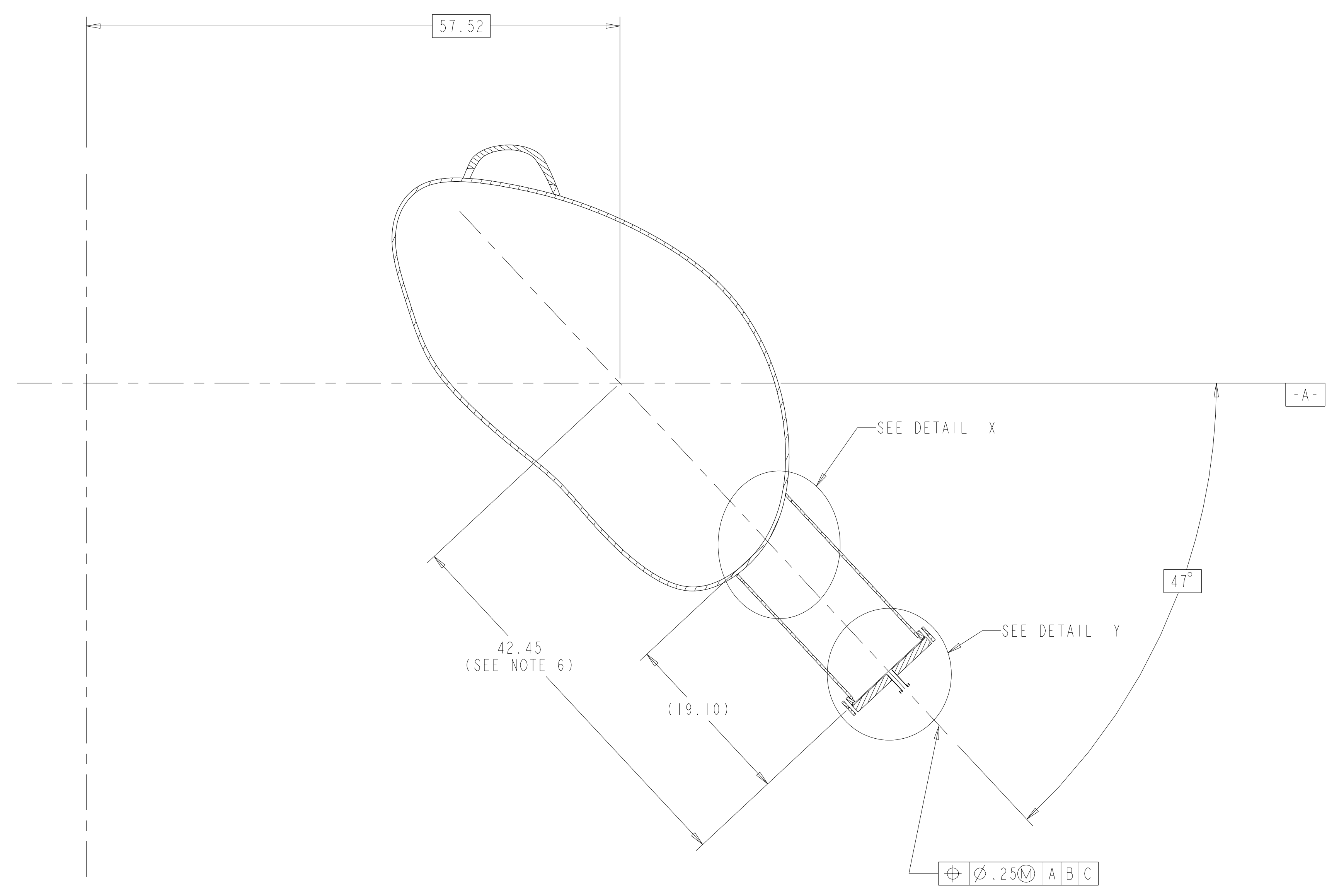
SEI20-004



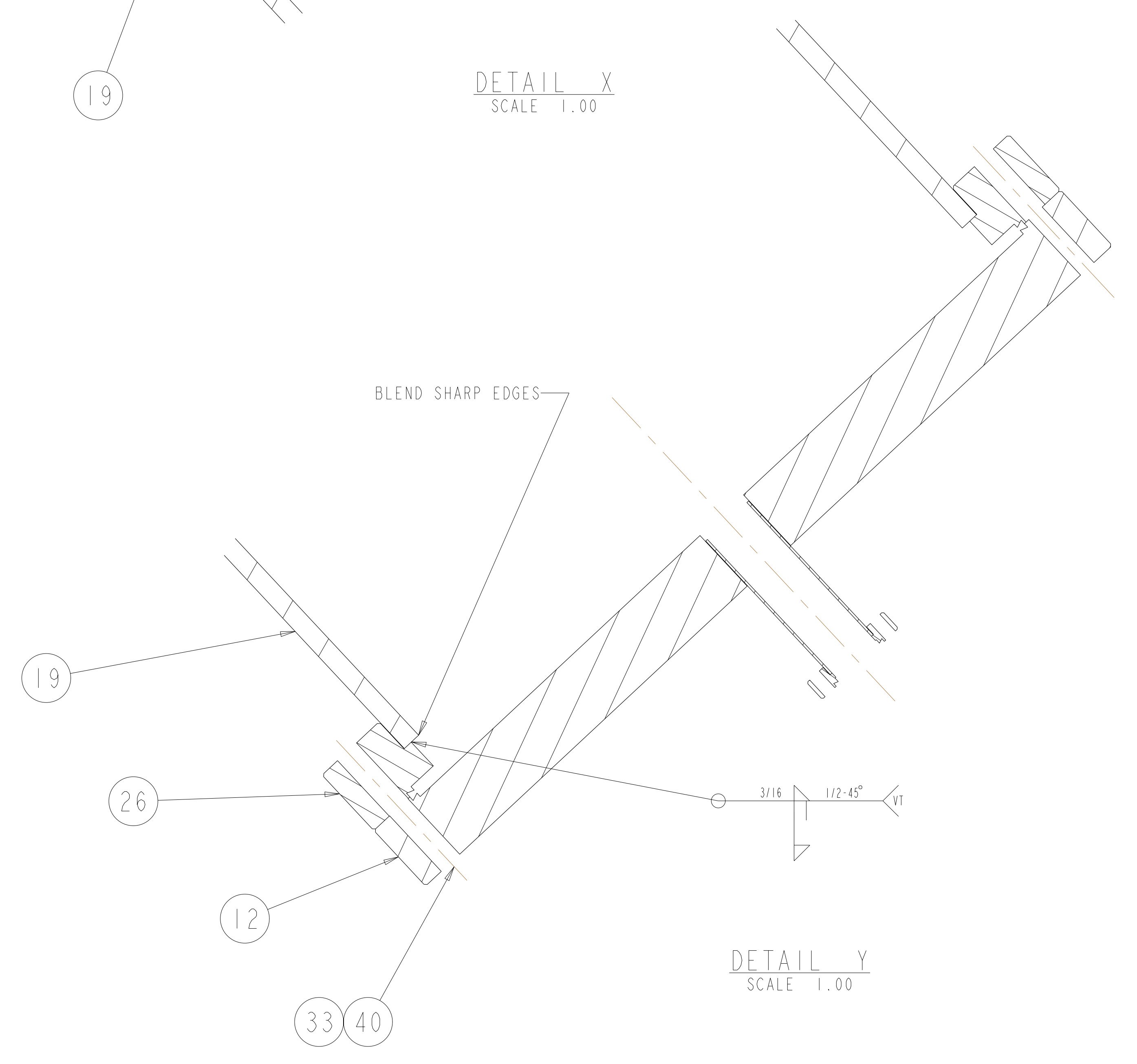
BOTTOM VIEW



DETAIL X  
SCALE 1.00



TYPICAL PORT 6A AND 6B  
SECTION PORT06-PORT06



DETAIL Y  
SCALE 1.00

FOR PARTS LIST AND NOTES SEE SHEET 1.

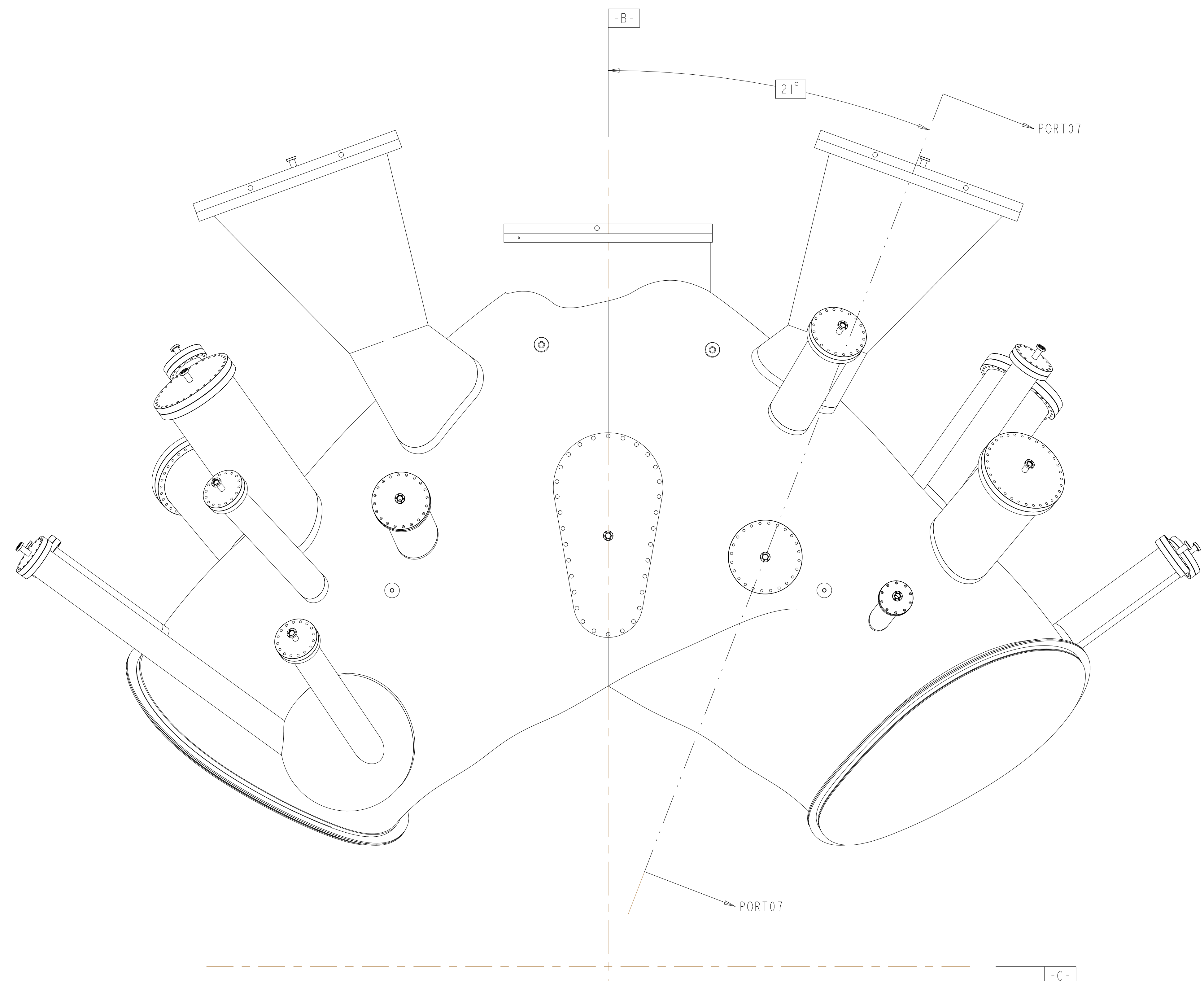
<b>UT-BATTELLE</b>		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee					
PROJECT NAME							
NATIONAL COMPACT STELLARATOR EXPERIMENT							
VACUUM VESSEL							
PERIOD INSPECTION AND LEAK CHECK							
ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
4	X-10	5700	3	7 19	A	U	
RELEASE LEVEL	SEI20-004						REV
WIP							2

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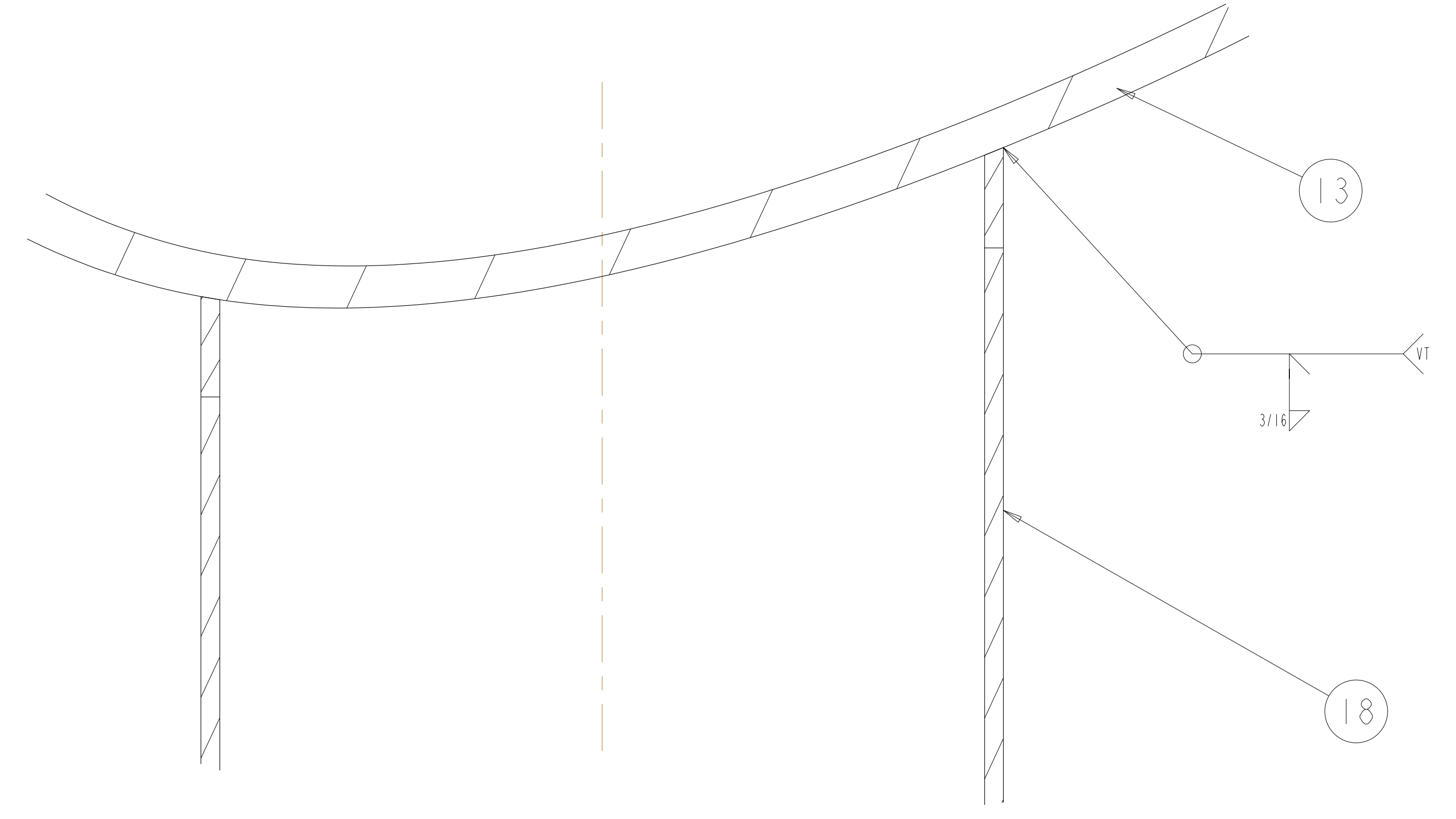
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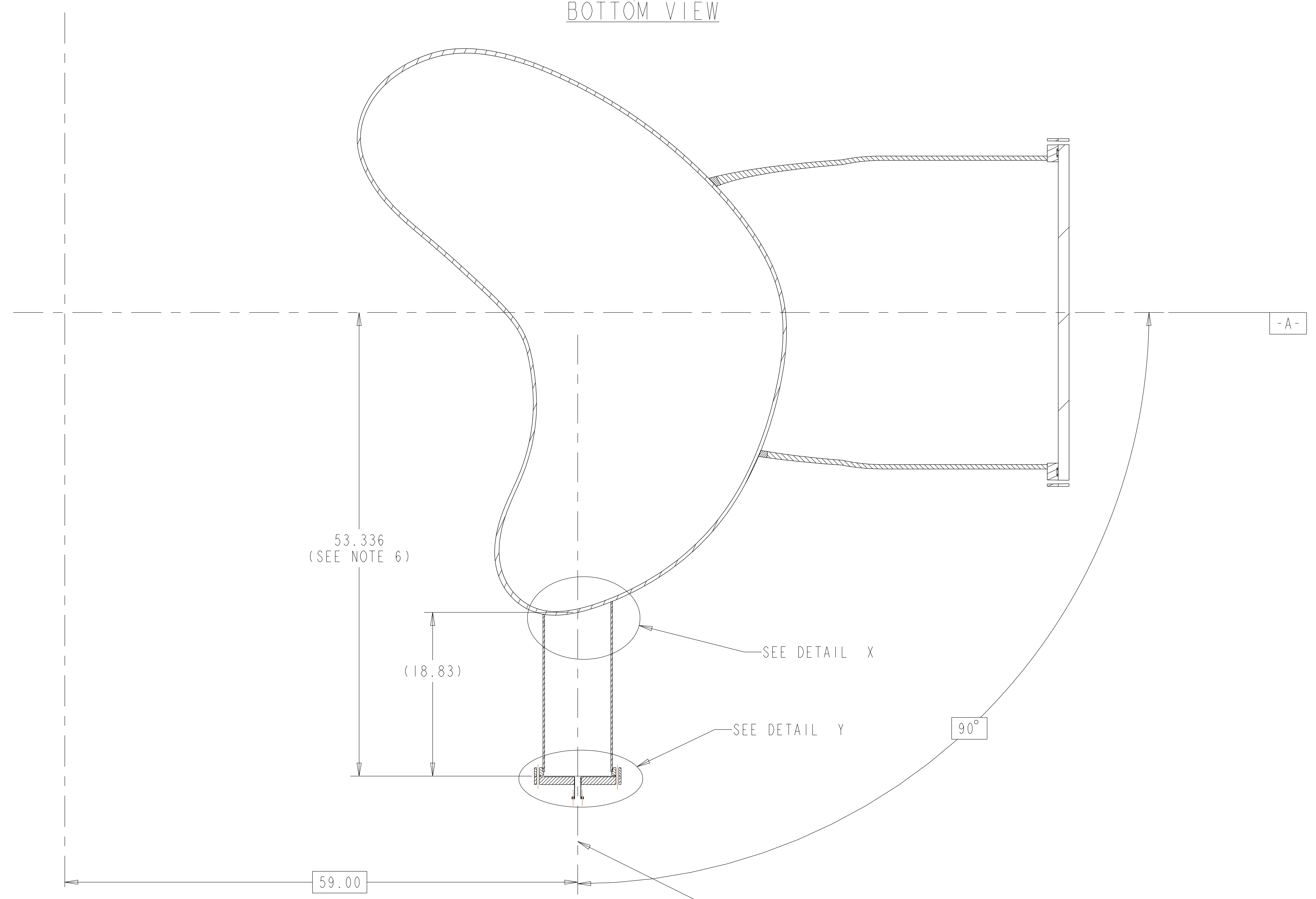
FOR PARTS LIST AND NOTES SEE SHEET 1.



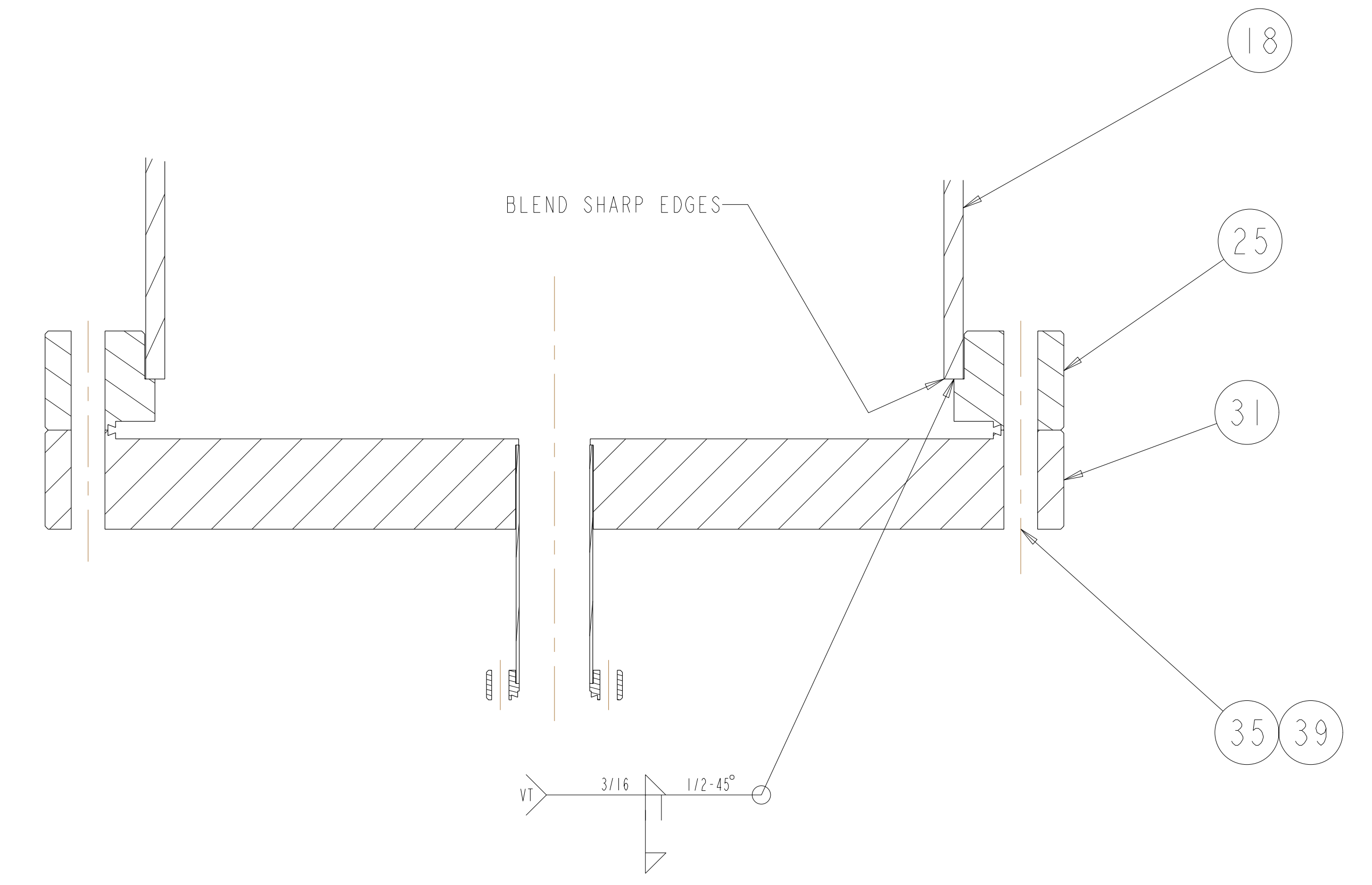
BOTTOM VIEW



DETAIL X  
SCALE 1.00



TYPICAL PORT 7A AND 7B  
SECTION PORT07-PORT07



DETAIL Y  
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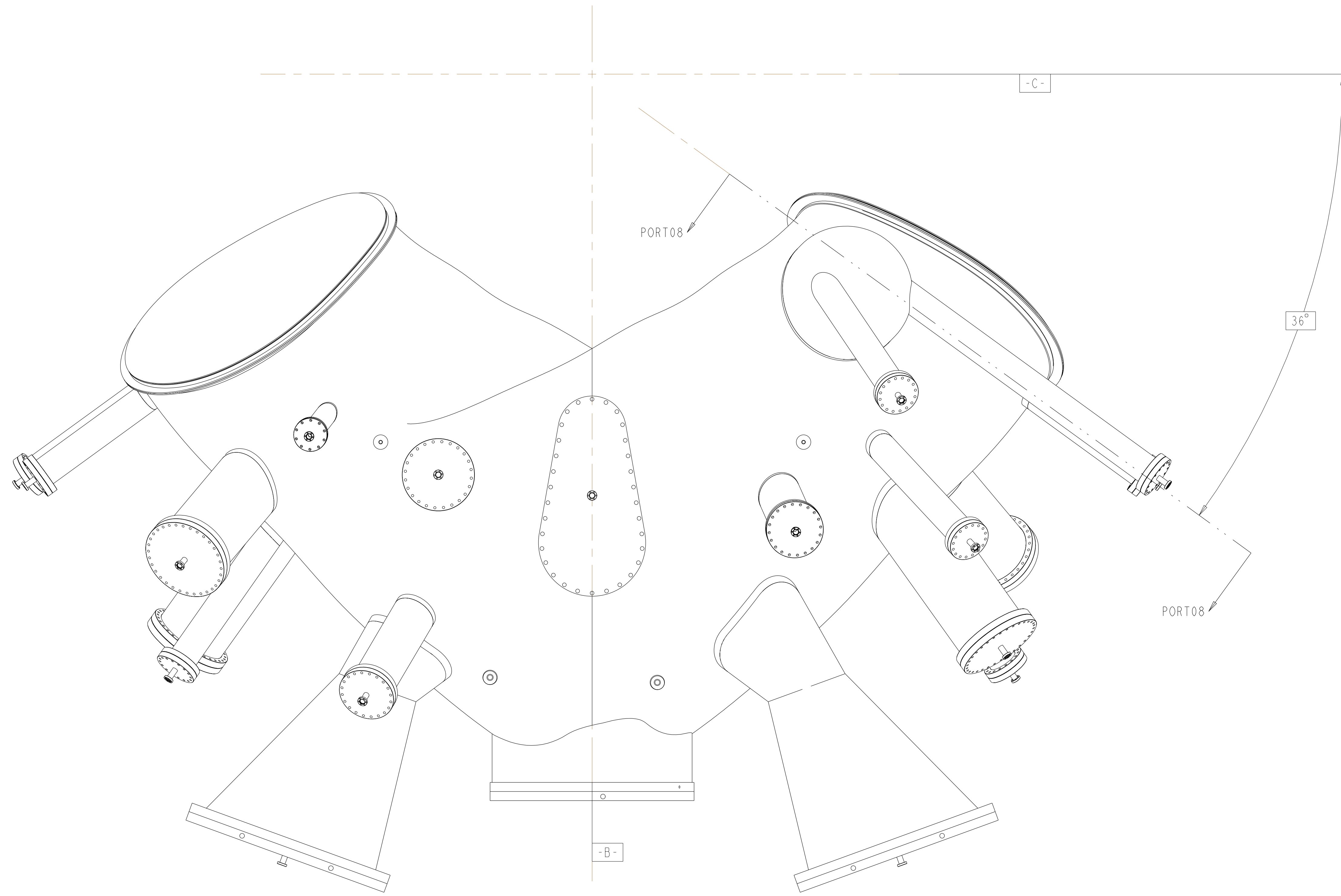
UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee					
NATIONAL COMPACT STELLARATOR EXPERIMENT							
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO. 4	PLANT X-10	BLDG 5700	FL 3	SHT OF 8 19	TYPE A	CLASS U	
RELEASE LEVEL WIP	SE120-004					REV 2	

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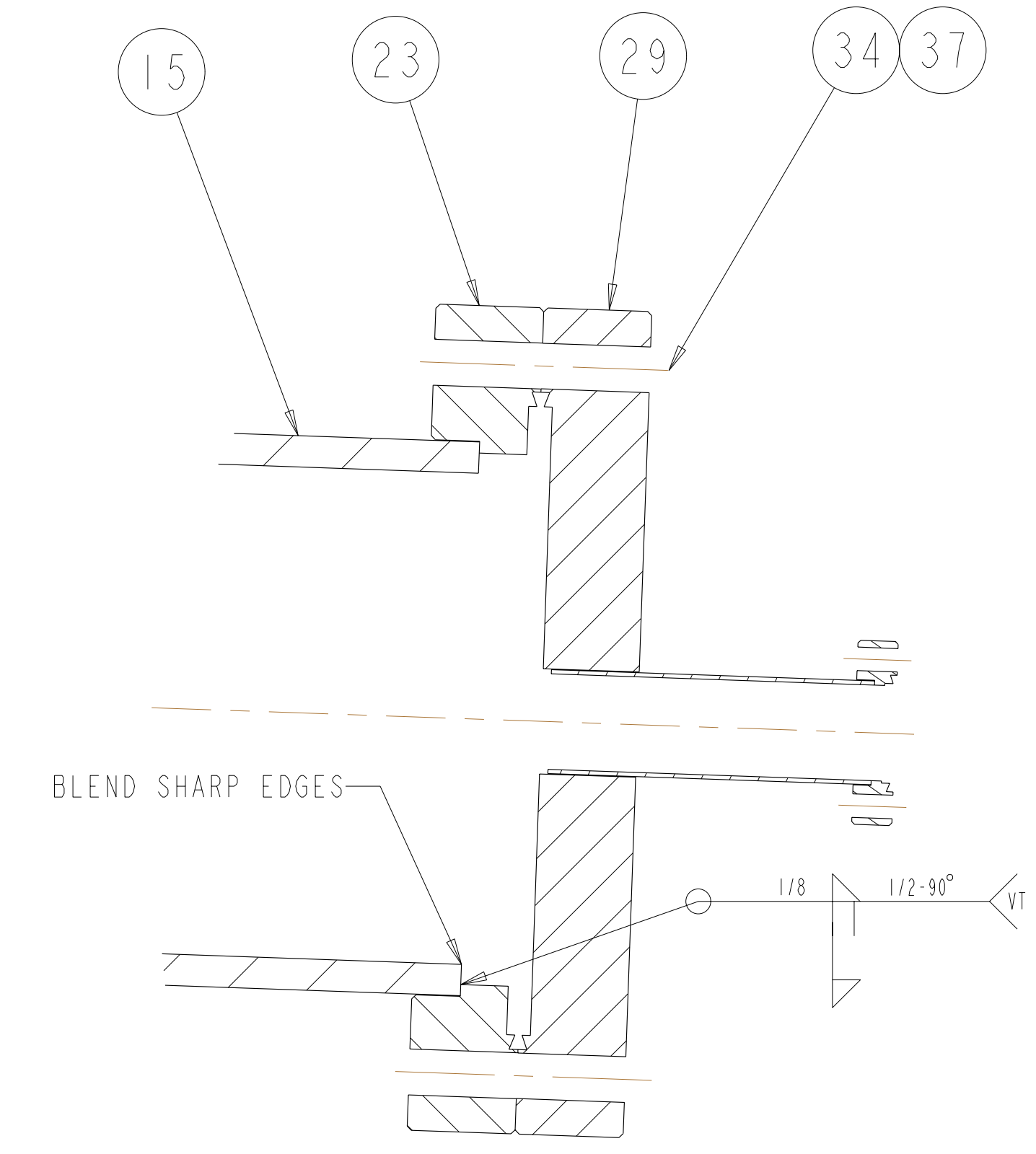
SE120-004



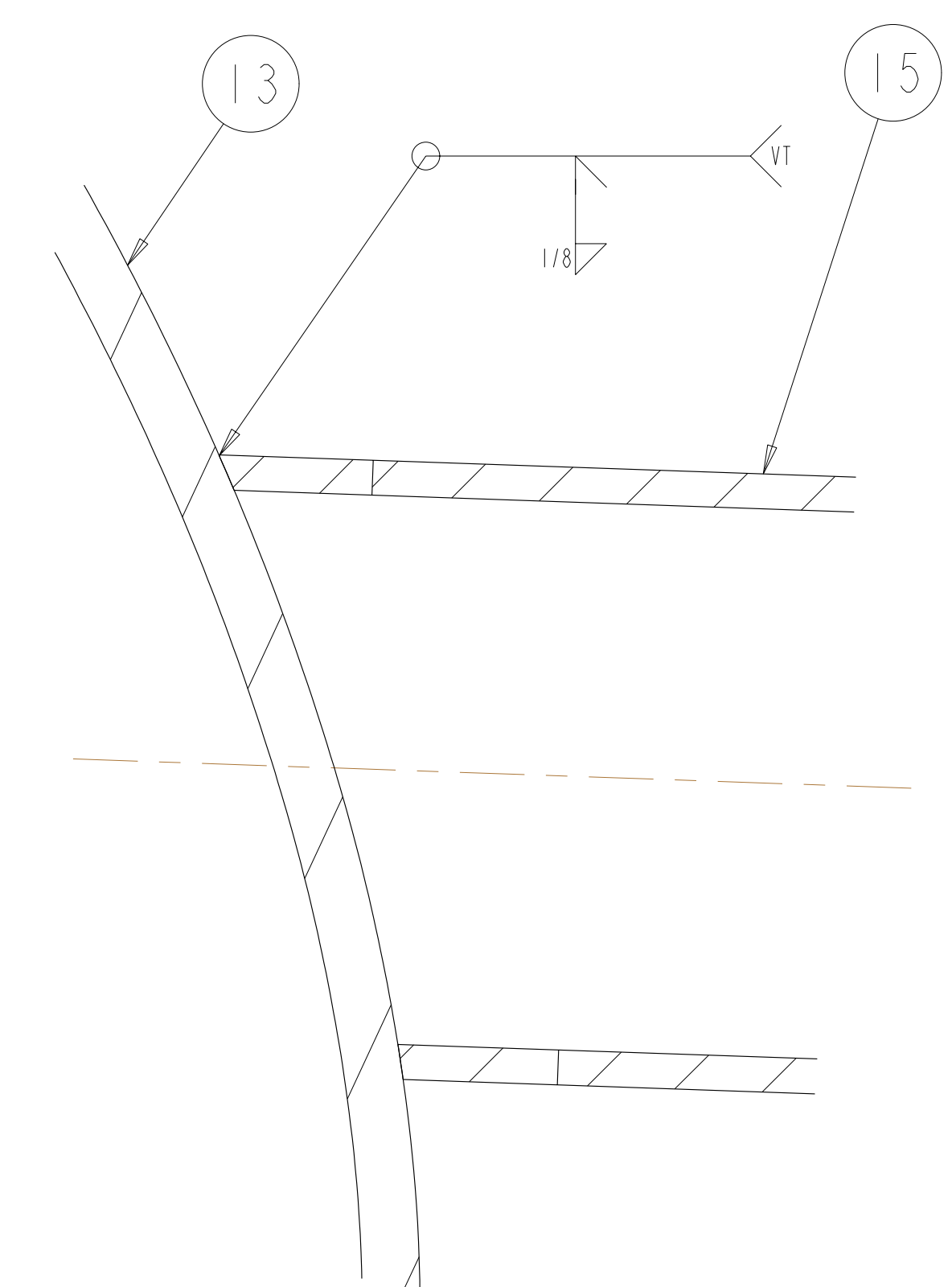
FOR PARTS LIST AND NOTES SEE SHEET 1.



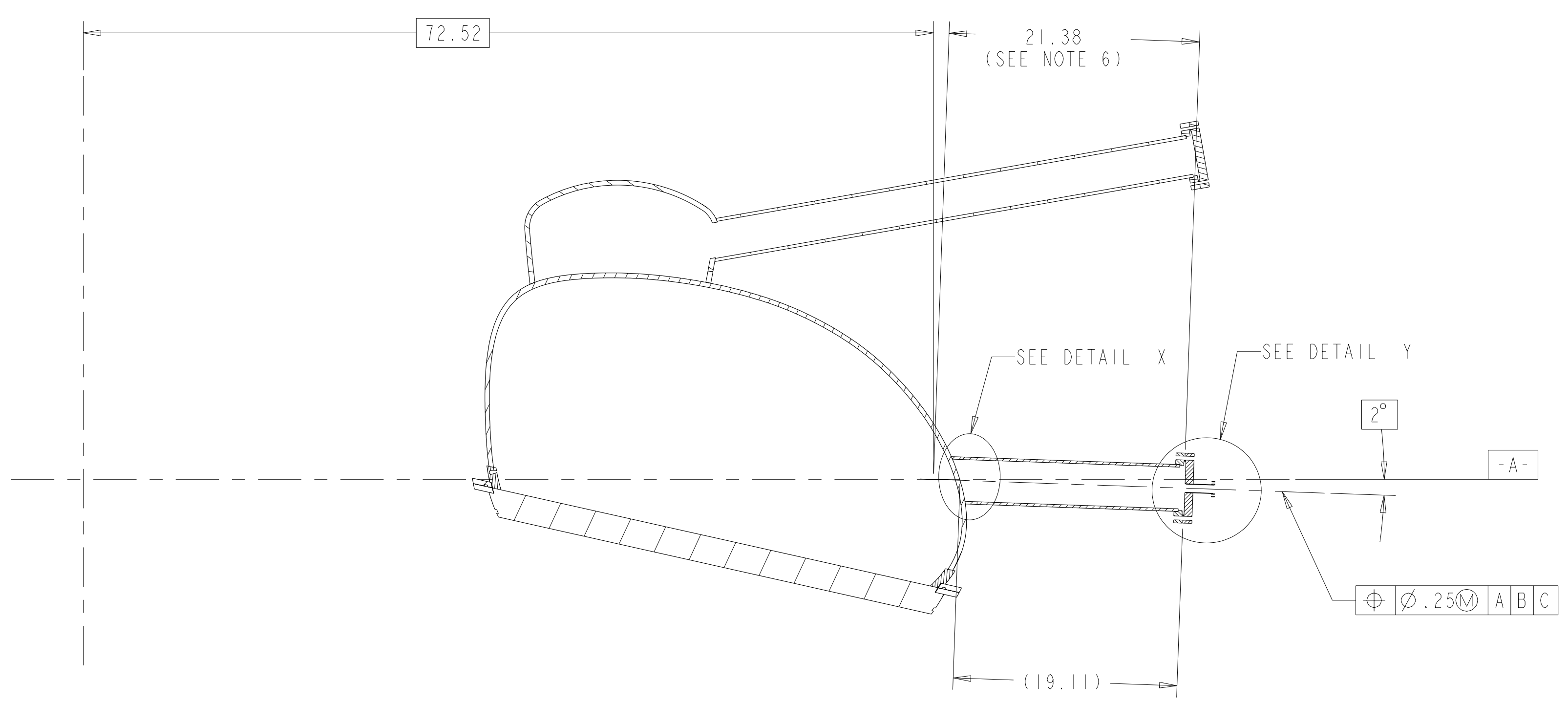
TOP VIEW



DETAIL Y  
 SCALE 1.00



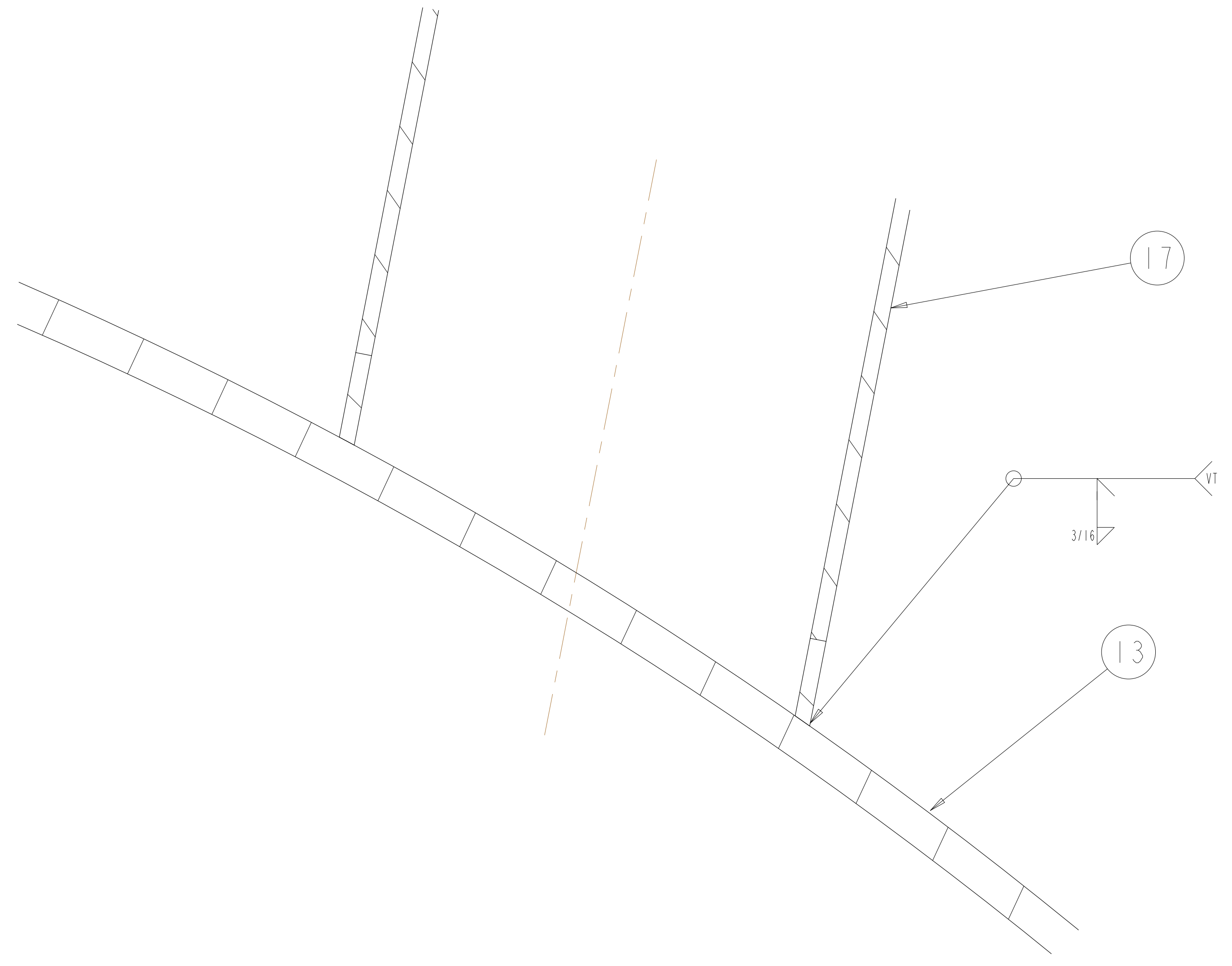
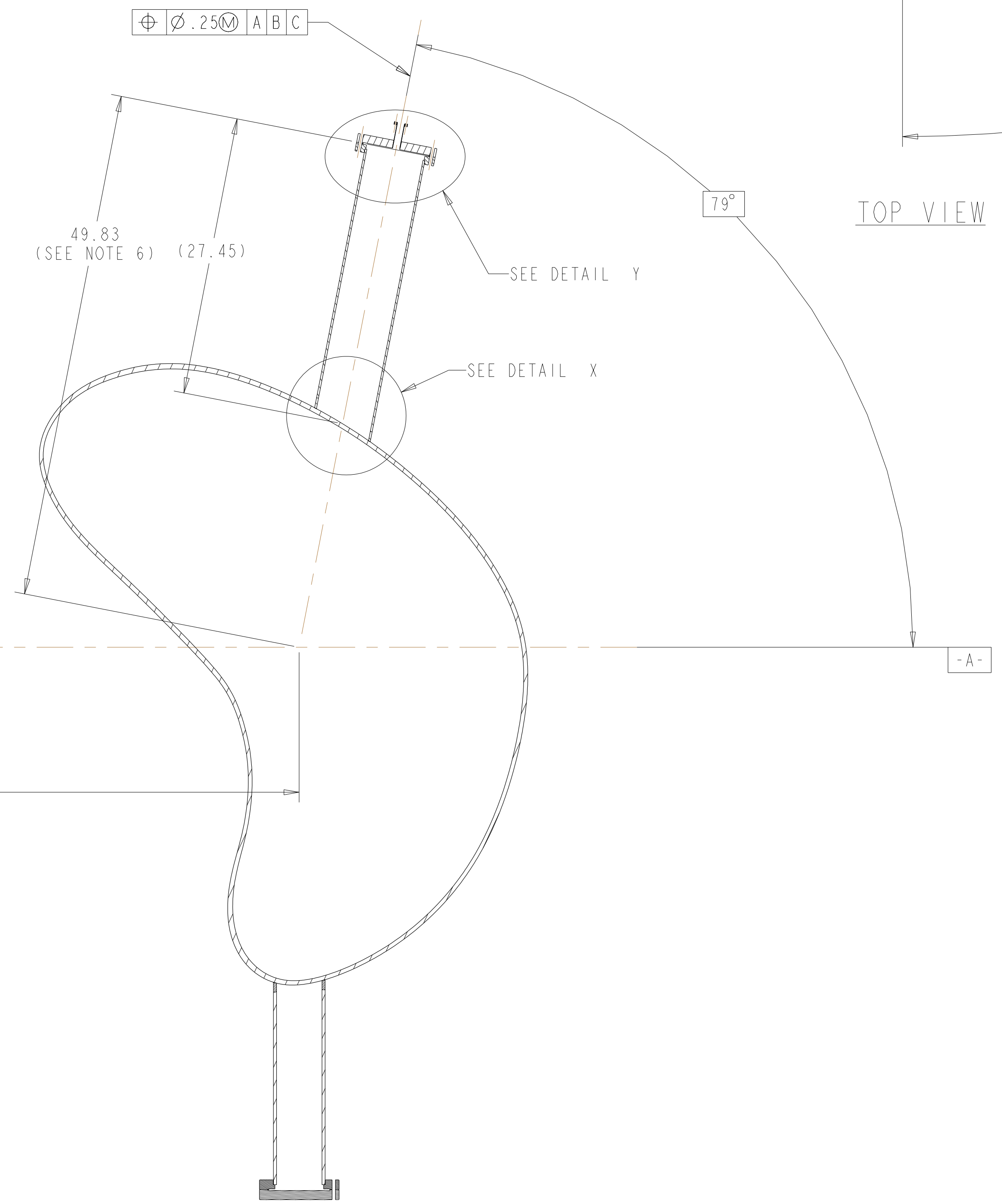
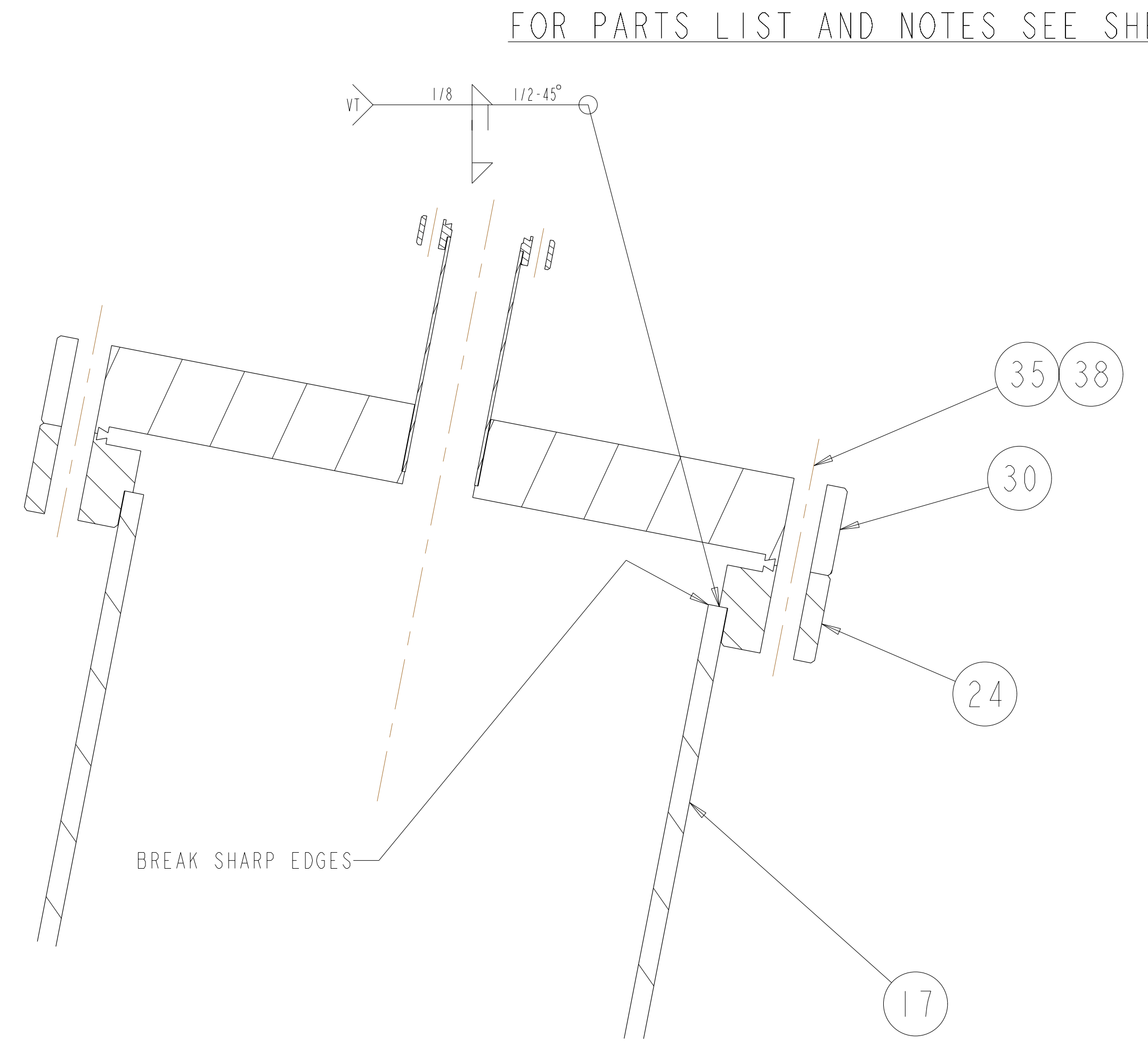
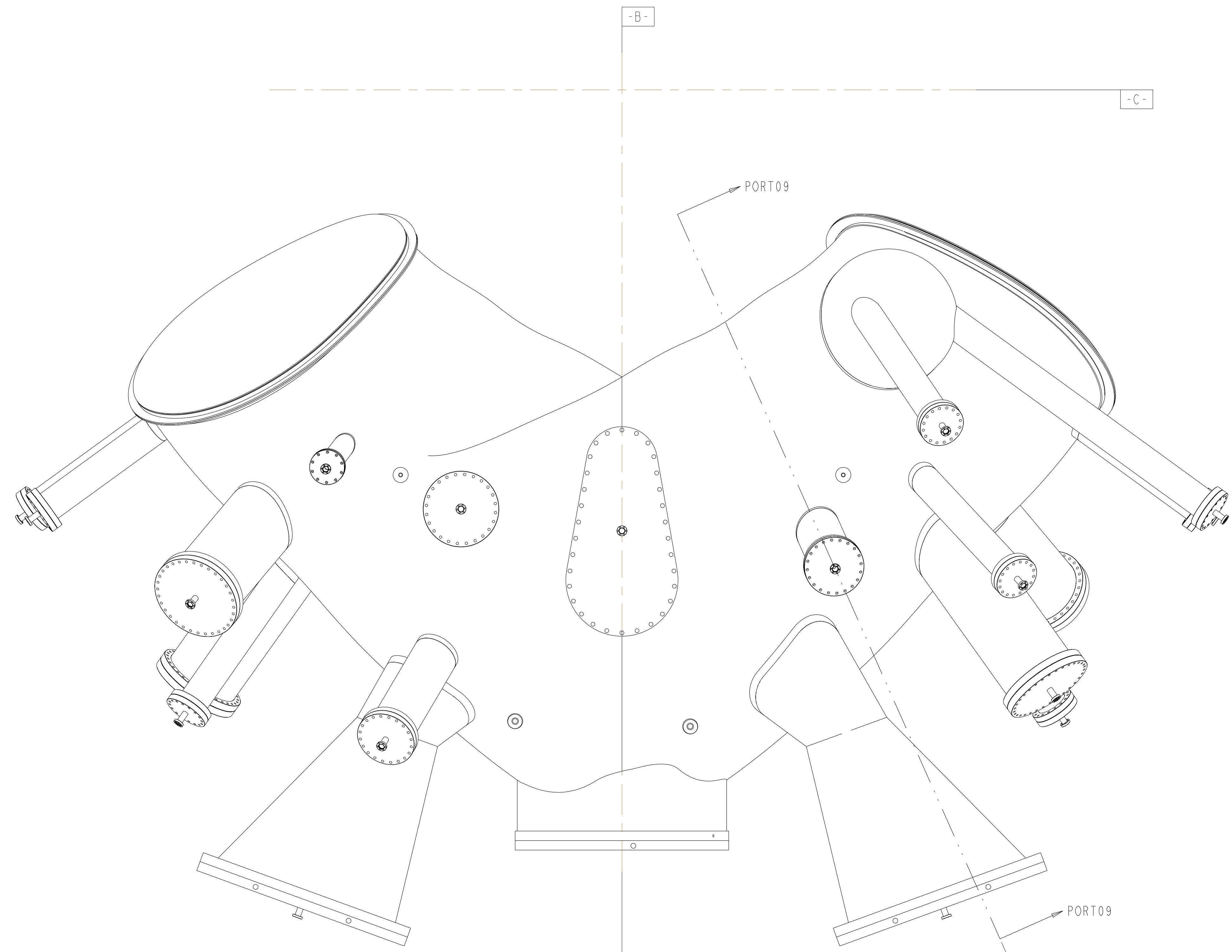
DETAIL X  
 SCALE 1.00



TYPICAL PORT 8A AND 8B  
 SECTION PORT08-PORT08

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NATIONAL COMPACT STELLERATOR EXPERIMENT VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
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RELEASE LEVEL	SEI20-004					REV
WIP						2

SEI20-004



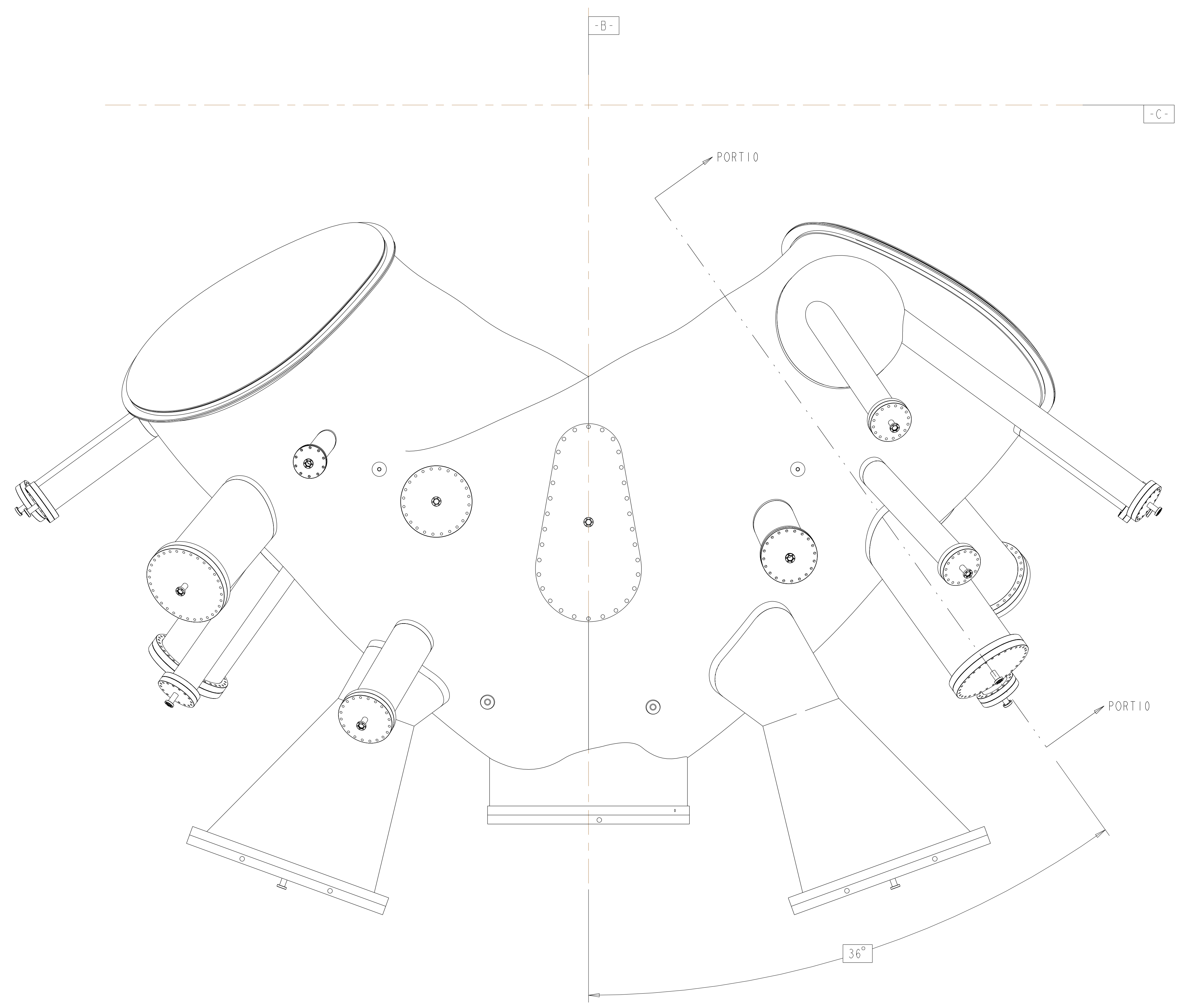
TYPICAL PORT 9A AND 9B SECTION PORT09-PORT09

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						
<b>UT-BATTELLE</b> NATIONAL COMPACT STELLARATOR EXPERIMENT VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
4	X-10	5700	3	10 19	A	U
RELEASE LEVEL	SEI20-004					REV
WIP						2

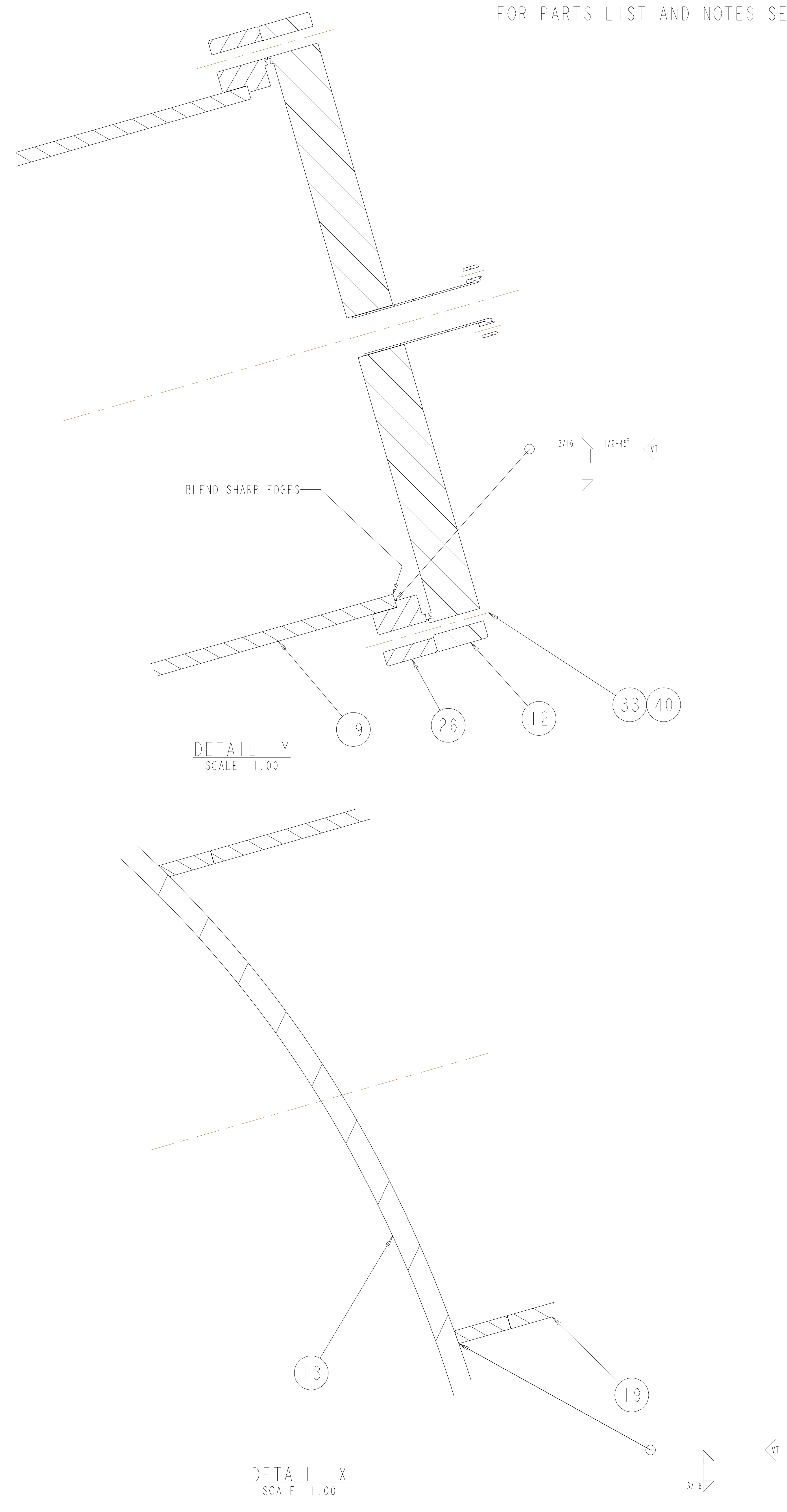
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FOR PARTS LIST AND NOTES SEE SHEET 1.



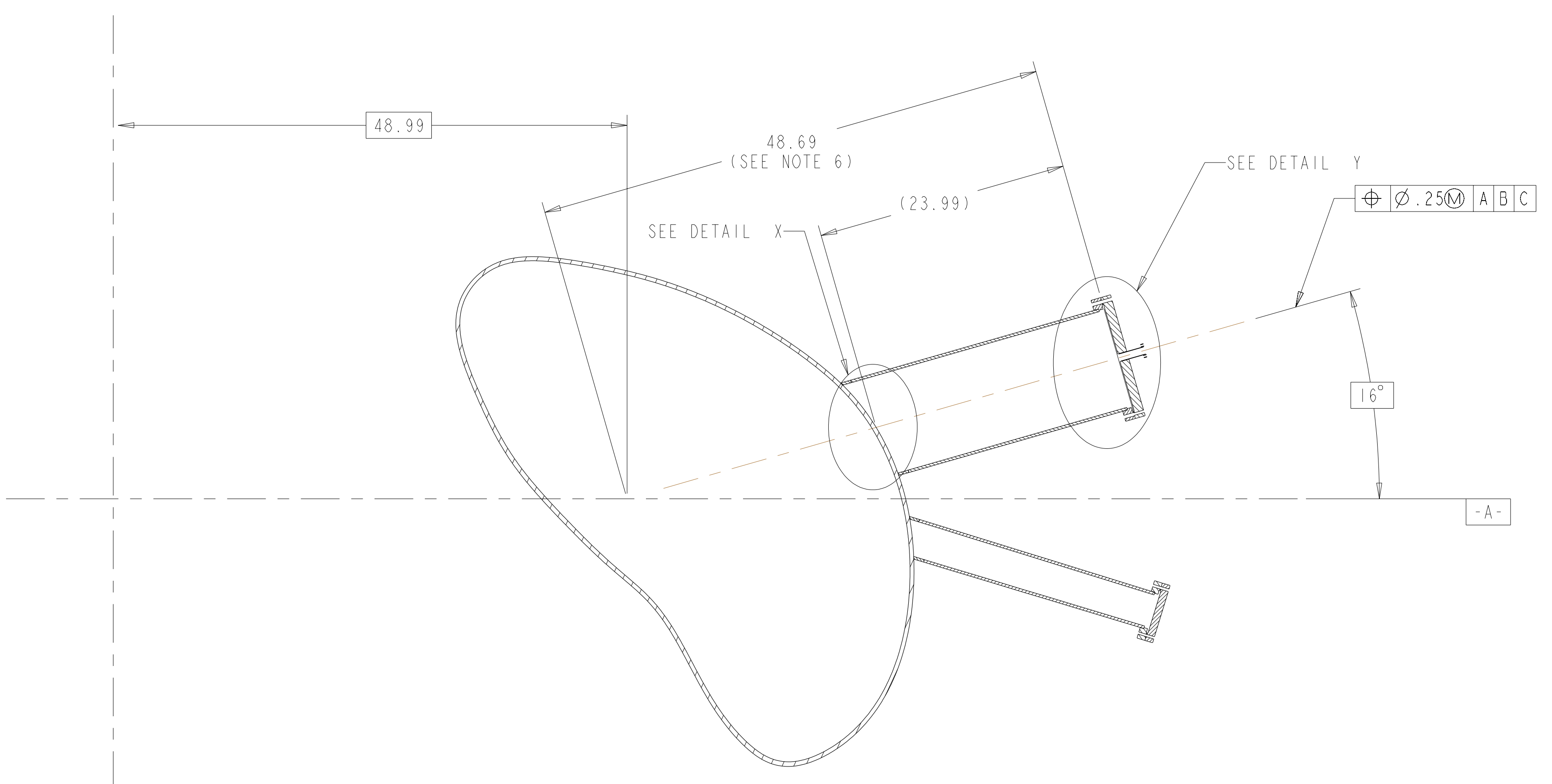
TOP VIEW



BLEND SHARP EDGES

DETAIL Y  
SCALE 1.00

DETAIL X  
SCALE 1.00



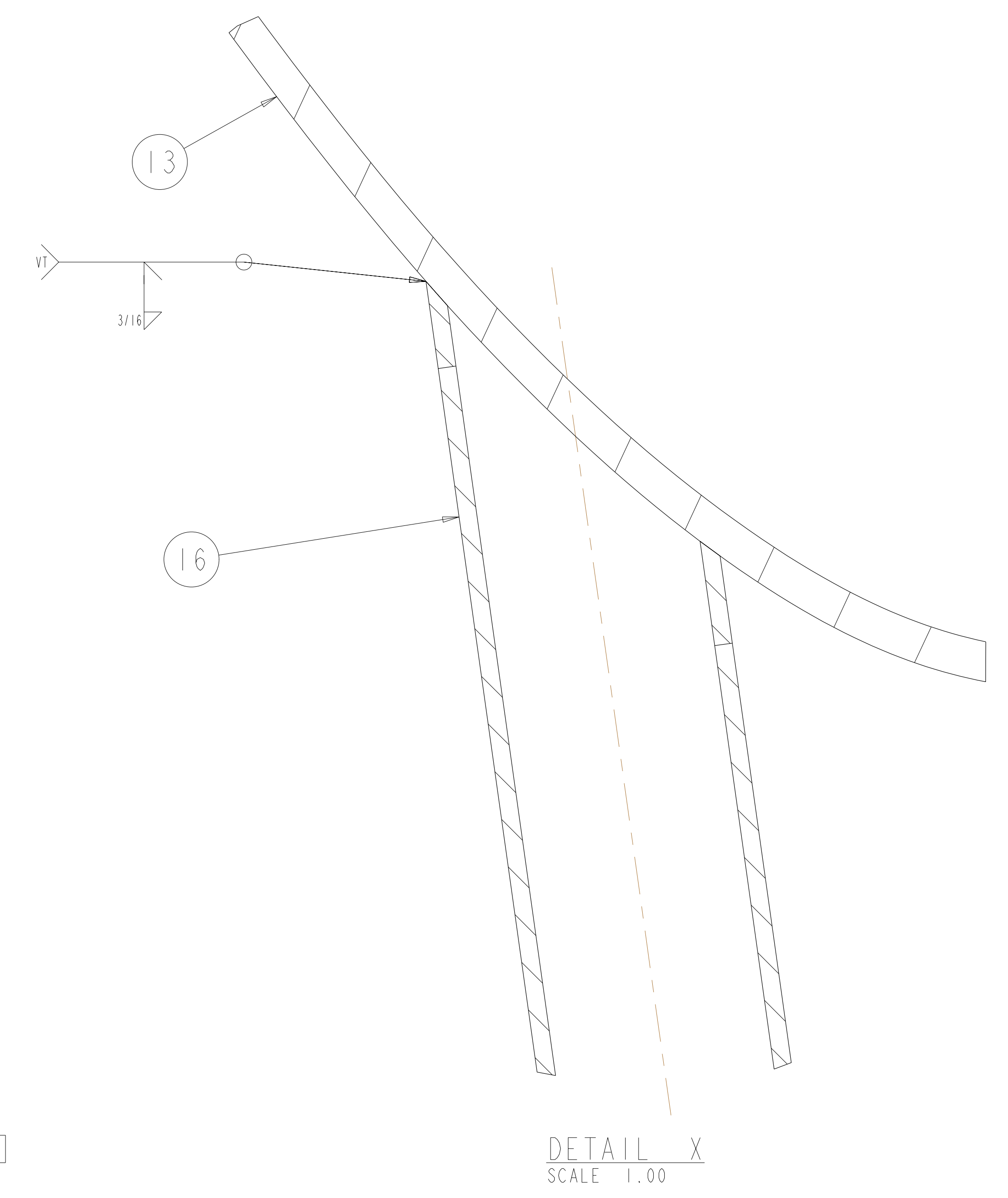
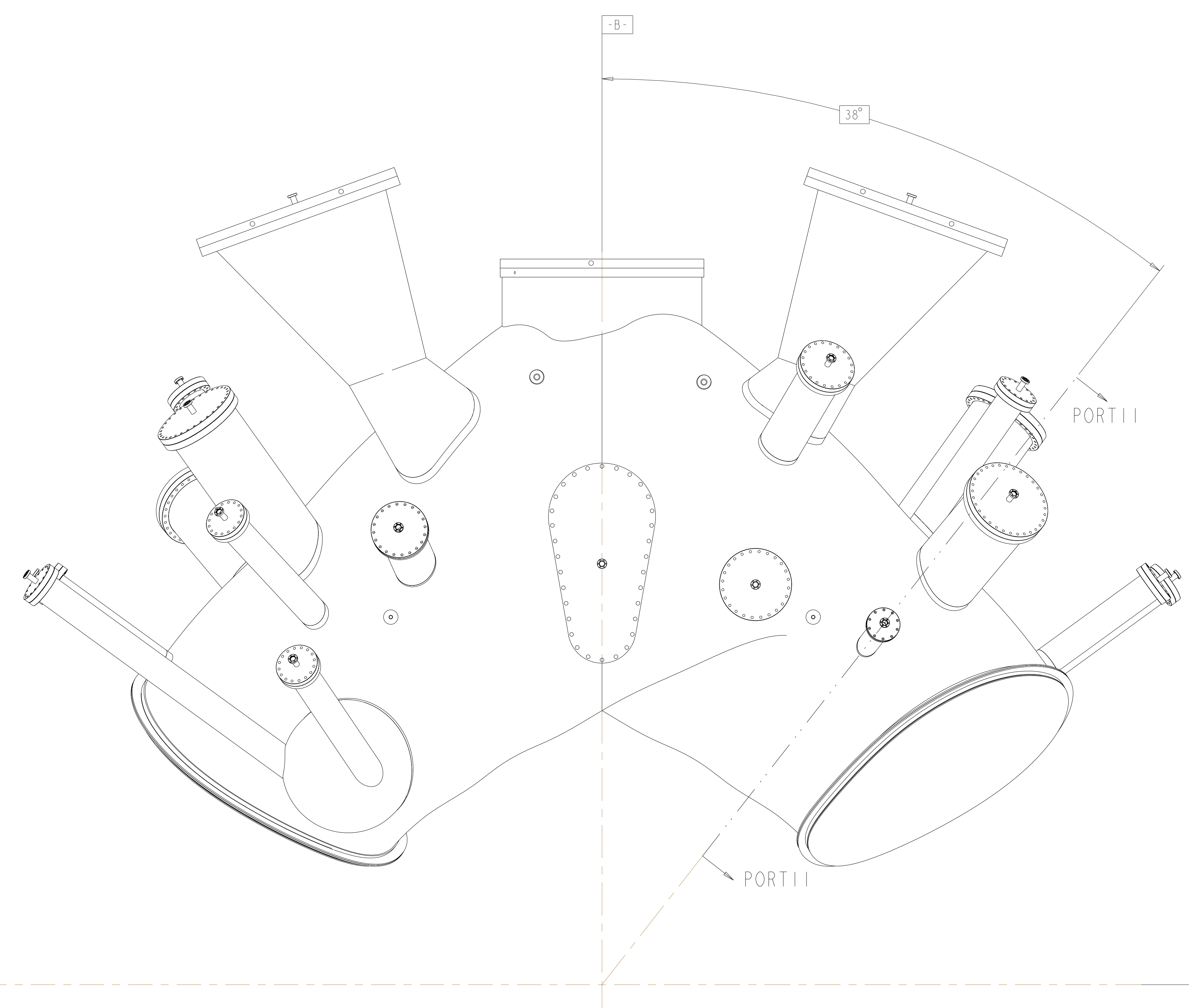
TYPICAL PORT 10A AND 10B  
SECTION PORT10-PORT10

<b>UT-BATTELLE</b>		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							
VACUUM VESSEL							
PERIOD INSPECTION AND LEAK CHECK							
ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
4	X-10	5700	3	11 19	A	U	
RELEASE LEVEL	SEI20-004					REV	
WIP						2	

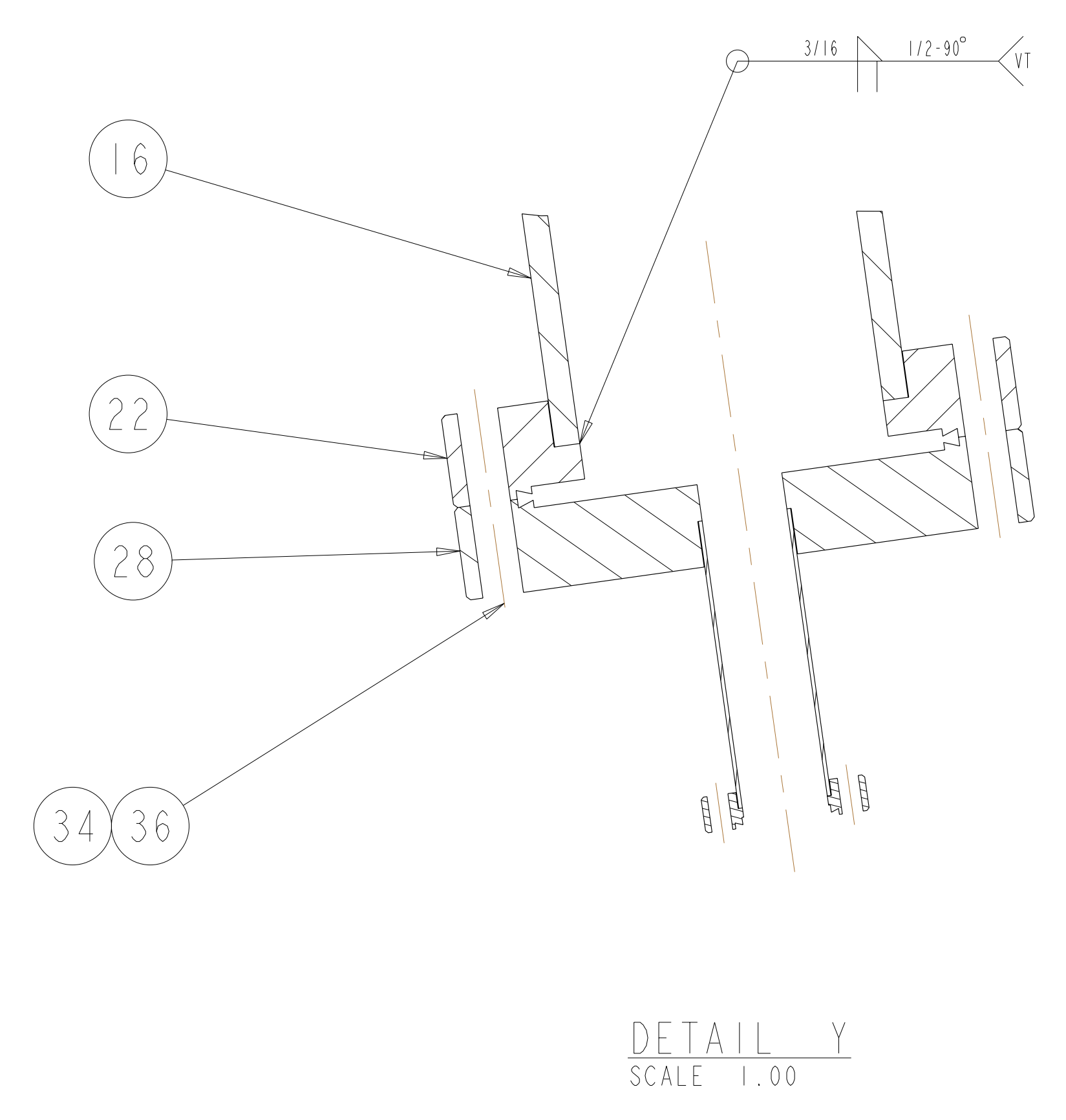
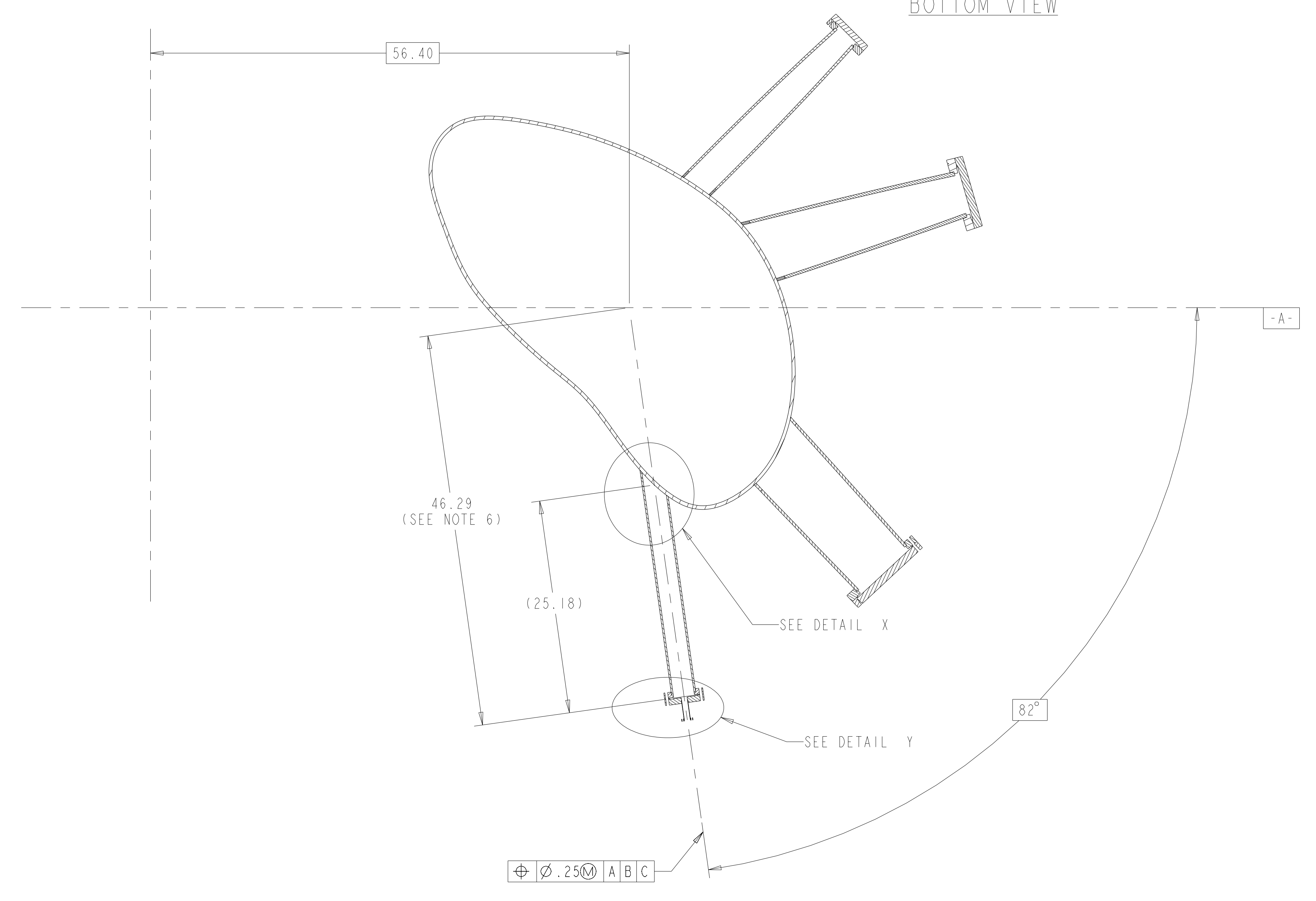
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SEI20-004

FOR PARTS LIST AND NOTES SEE SHEET 1.



BOTTOM VIEW



TYPICAL PORT IIA AND IIB SECTION PORT II-PORT III

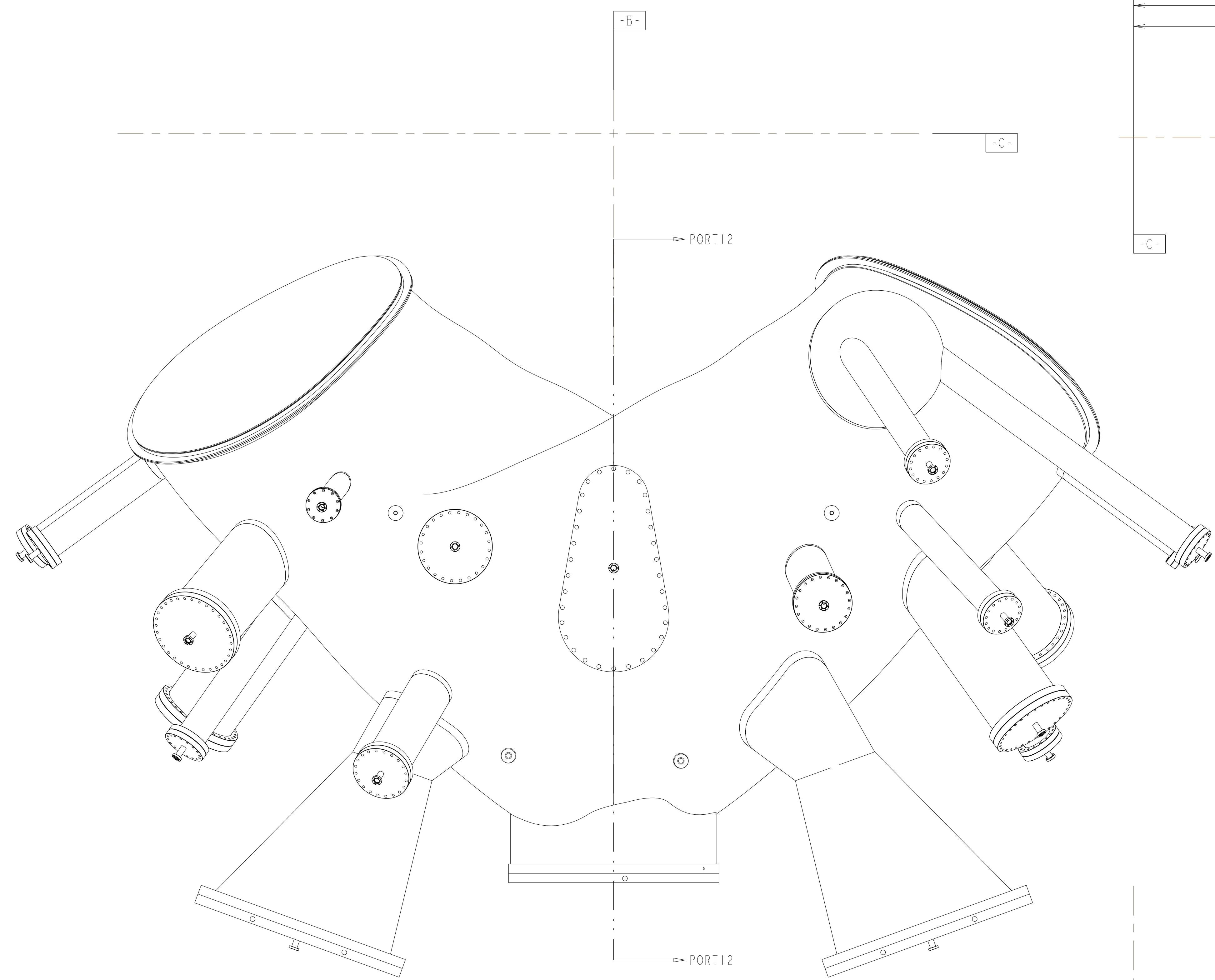
<b>UT-BATTELLE</b>		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee					
PROJECT NAME							
NATIONAL COMPACT STELLARATOR EXPERIMENT							
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
4	X-10	5700	3	12 19	A	U	
RELEASE LEVEL		SEI20-004				REV	
WIP						2	

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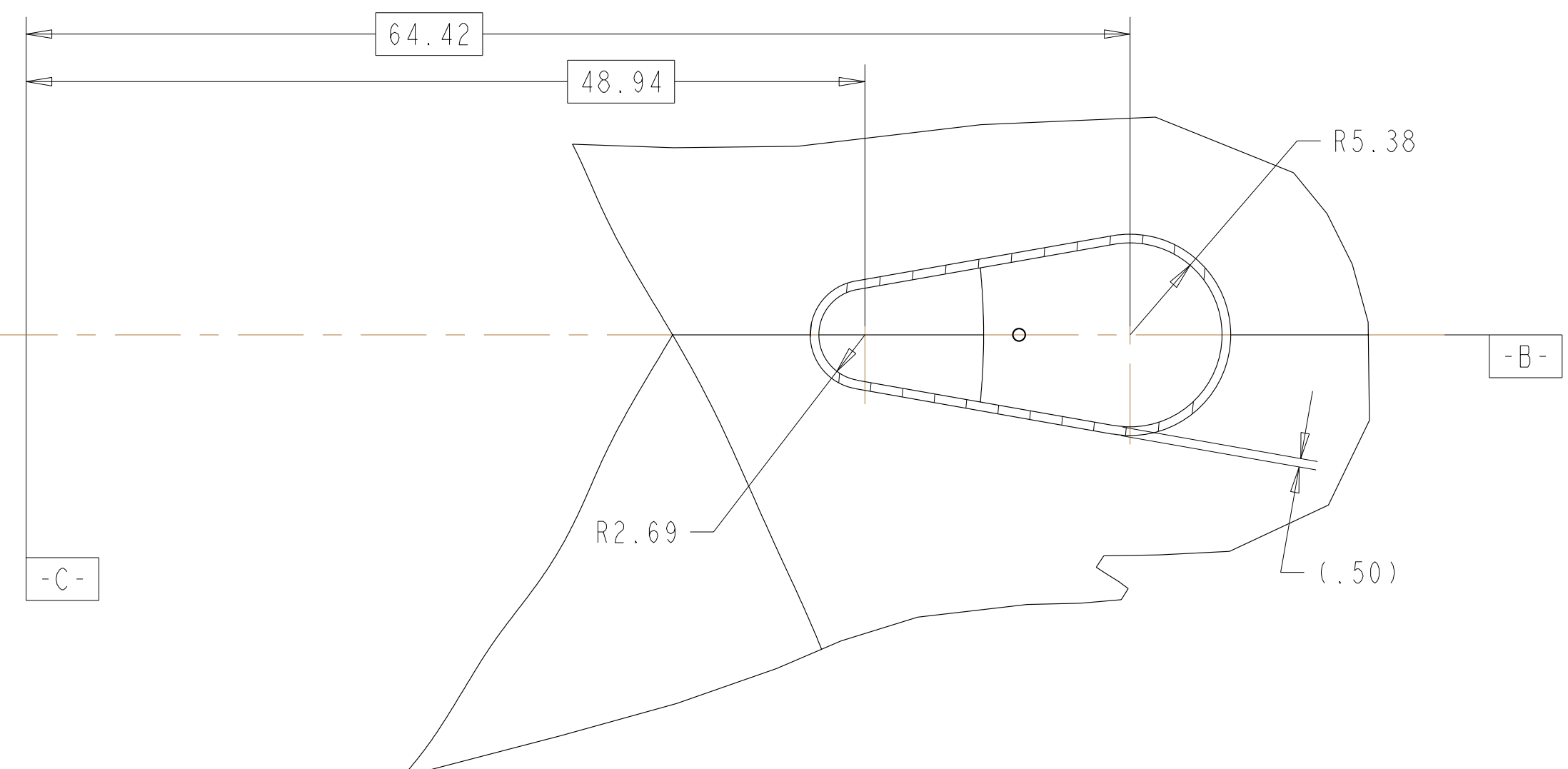
SEI20-004



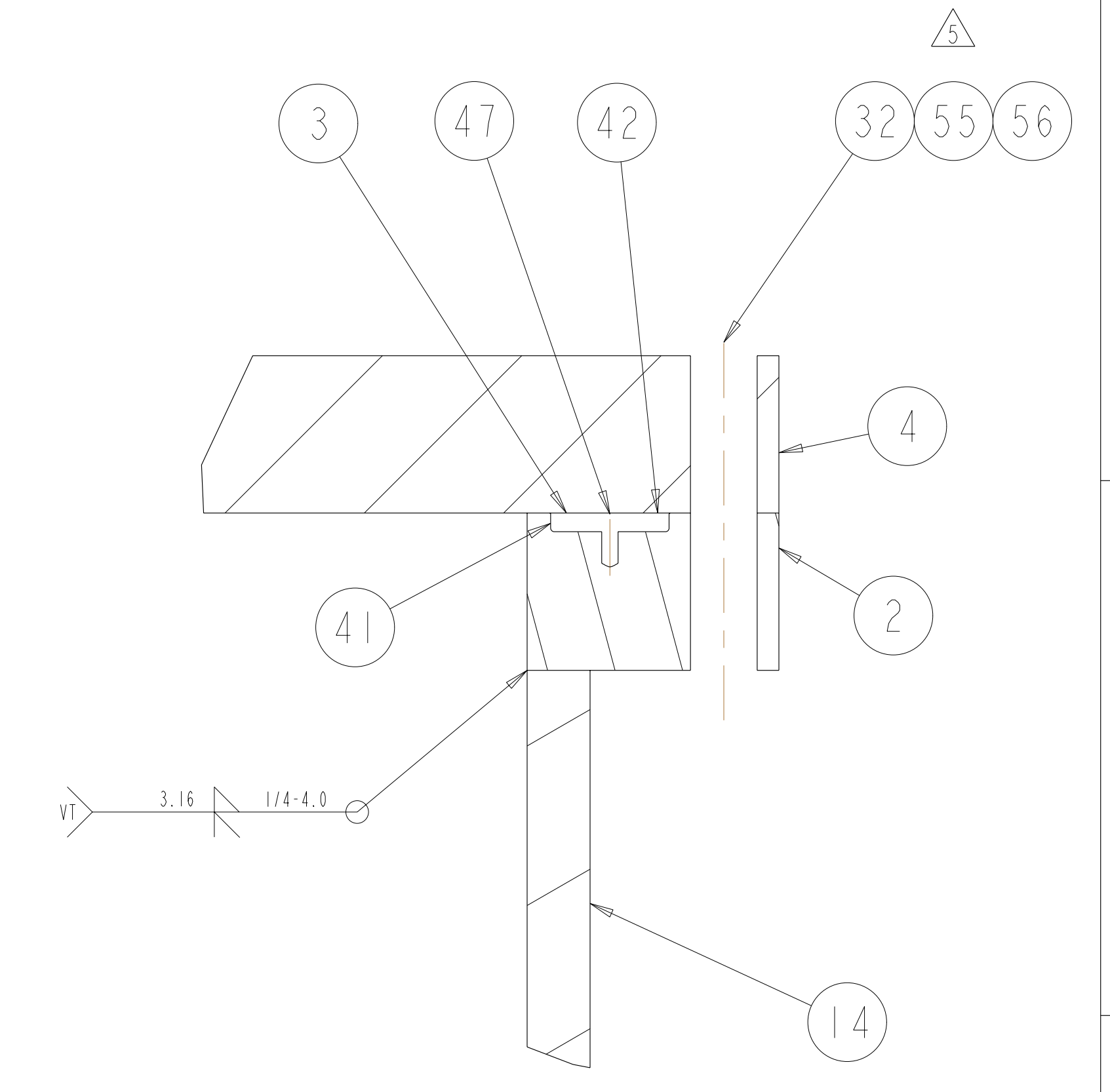
FOR PARTS LIST AND NOTES SEE SHEET 1.



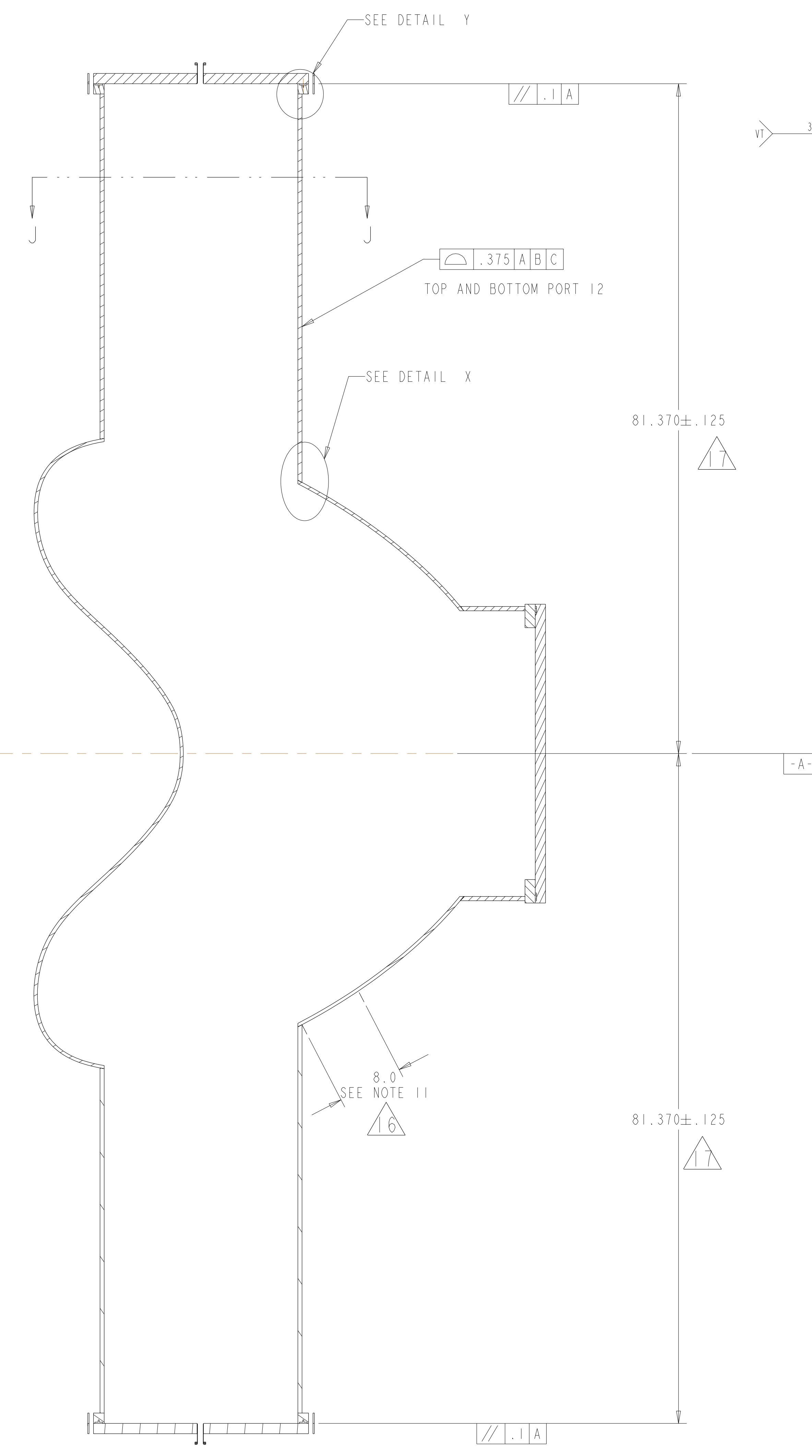
TOP VIEW



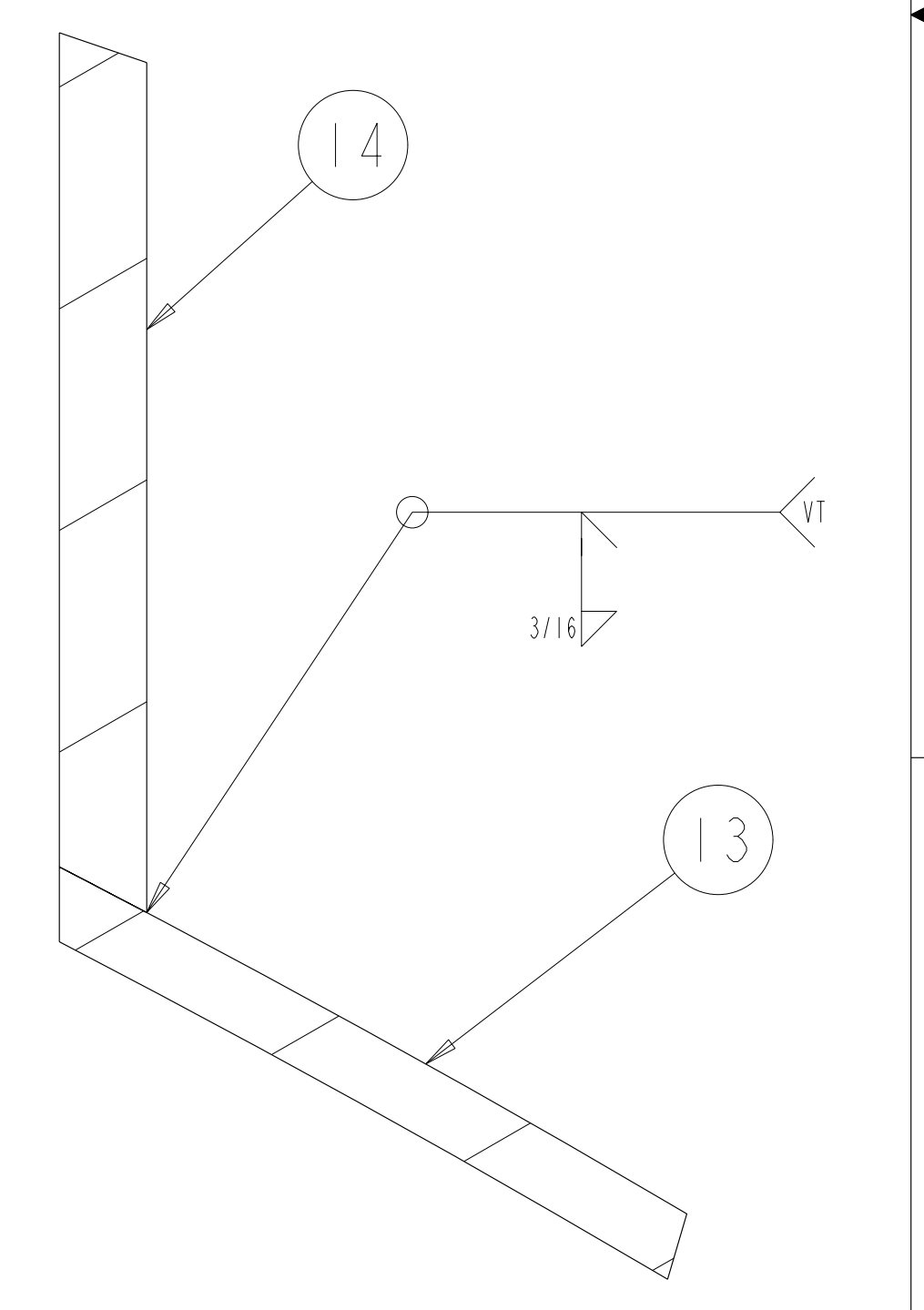
SECTION J-J  
 TYP TOP AND BOTTOM



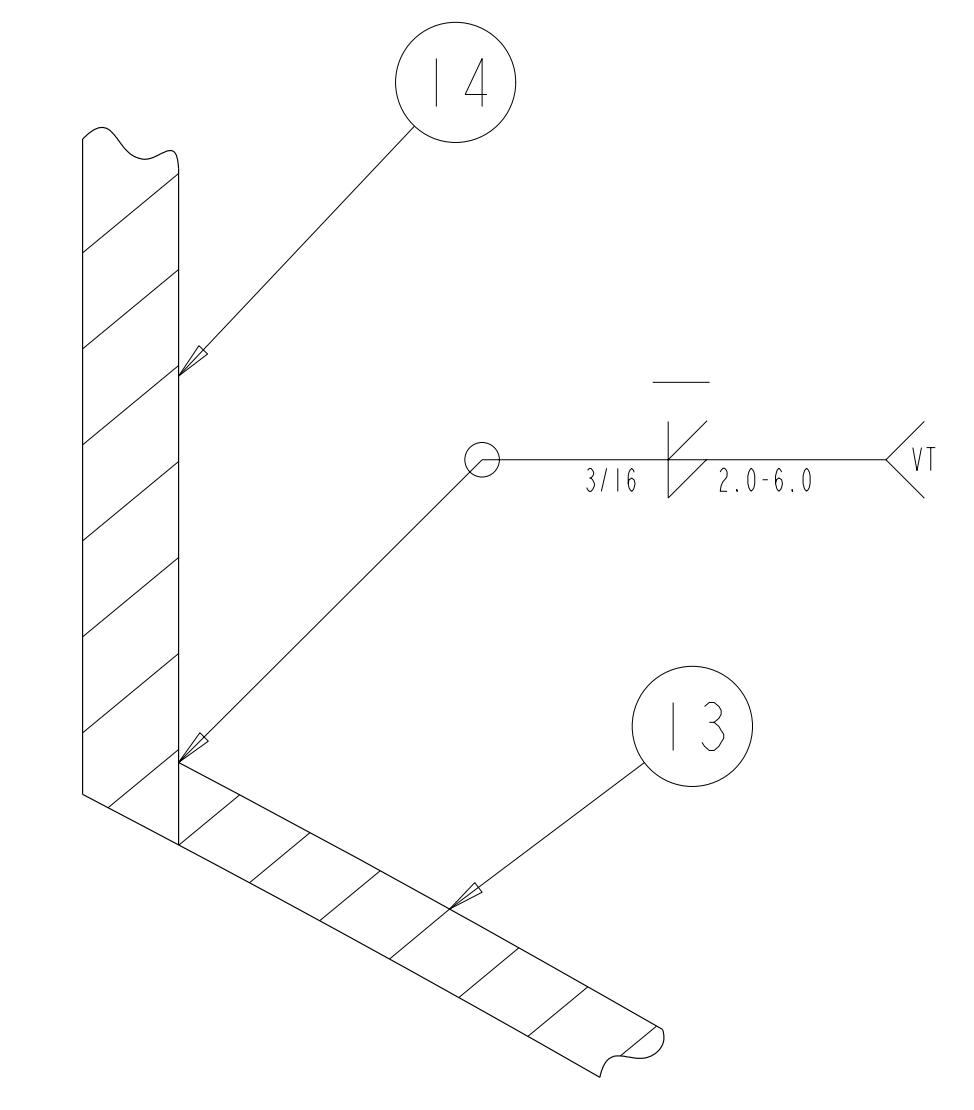
DETAIL Y  
 SCALE 1.00



SECTION PORT12-PORT12



DETAIL X  
 SCALE 1.00



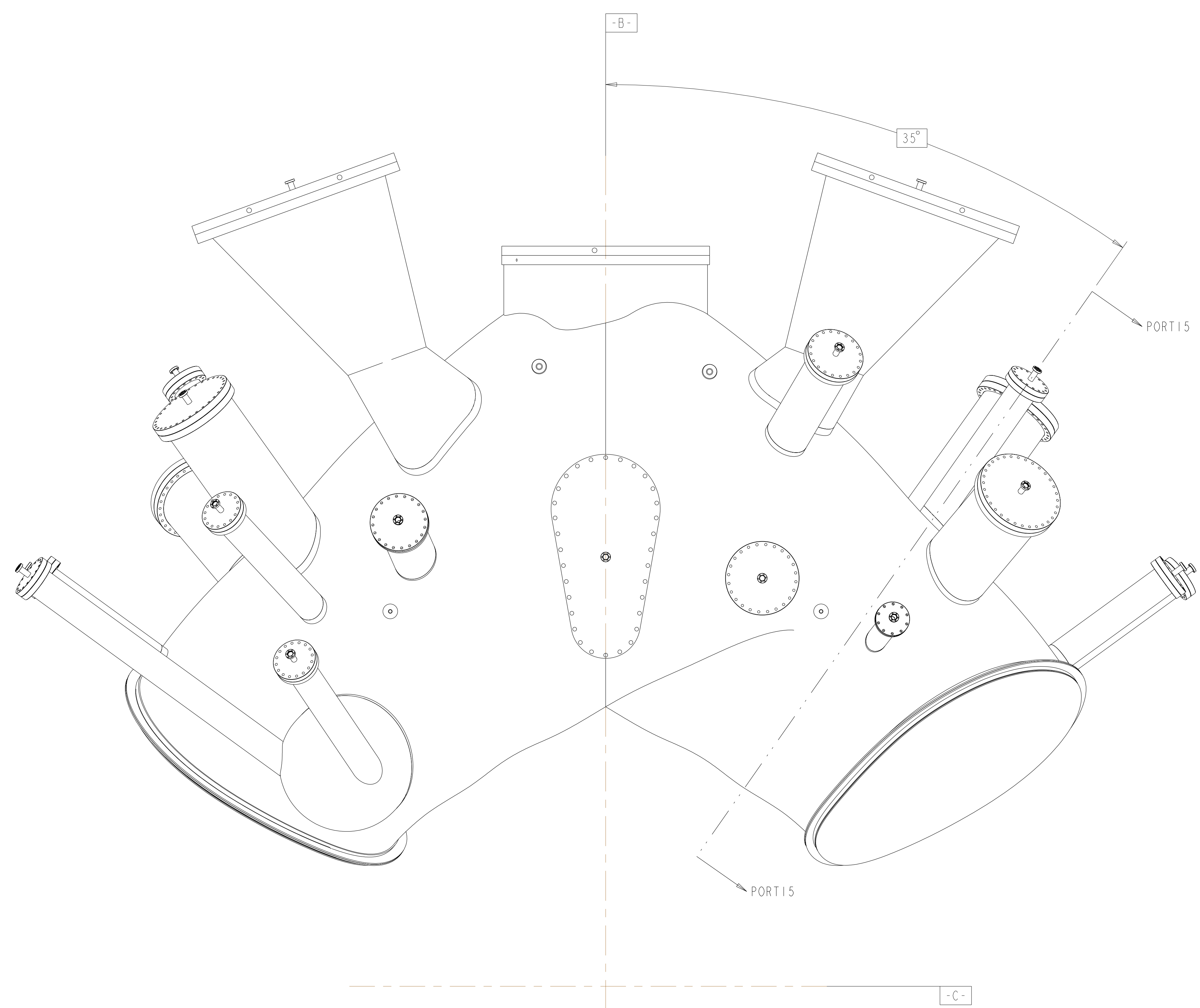
OPTIONAL WELD DETAIL

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 VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
4	X-10	5700	3	13 19	A	U
RELEASE LEVEL	SEI20-004					REV
WIP						2

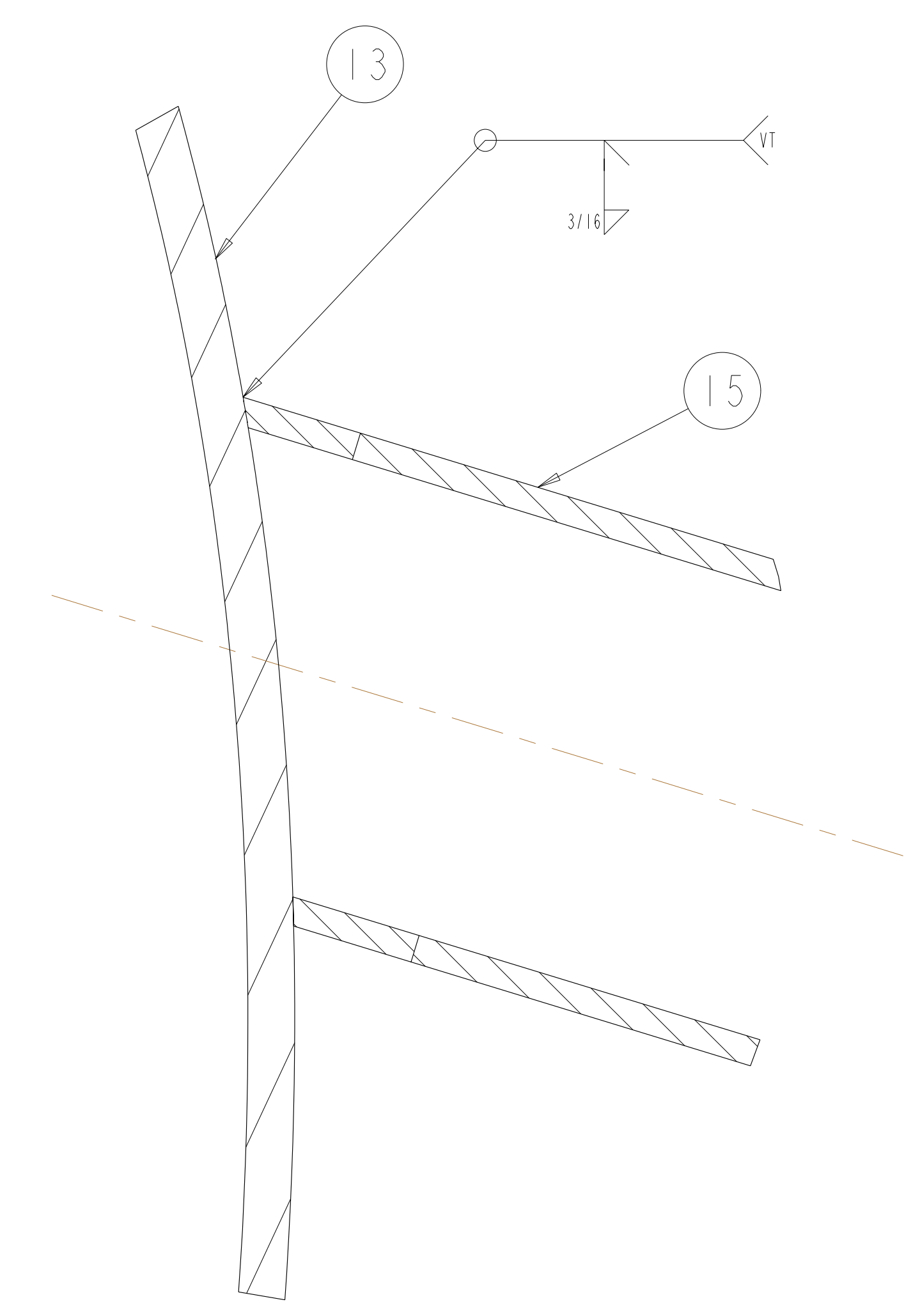
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SEI20-004

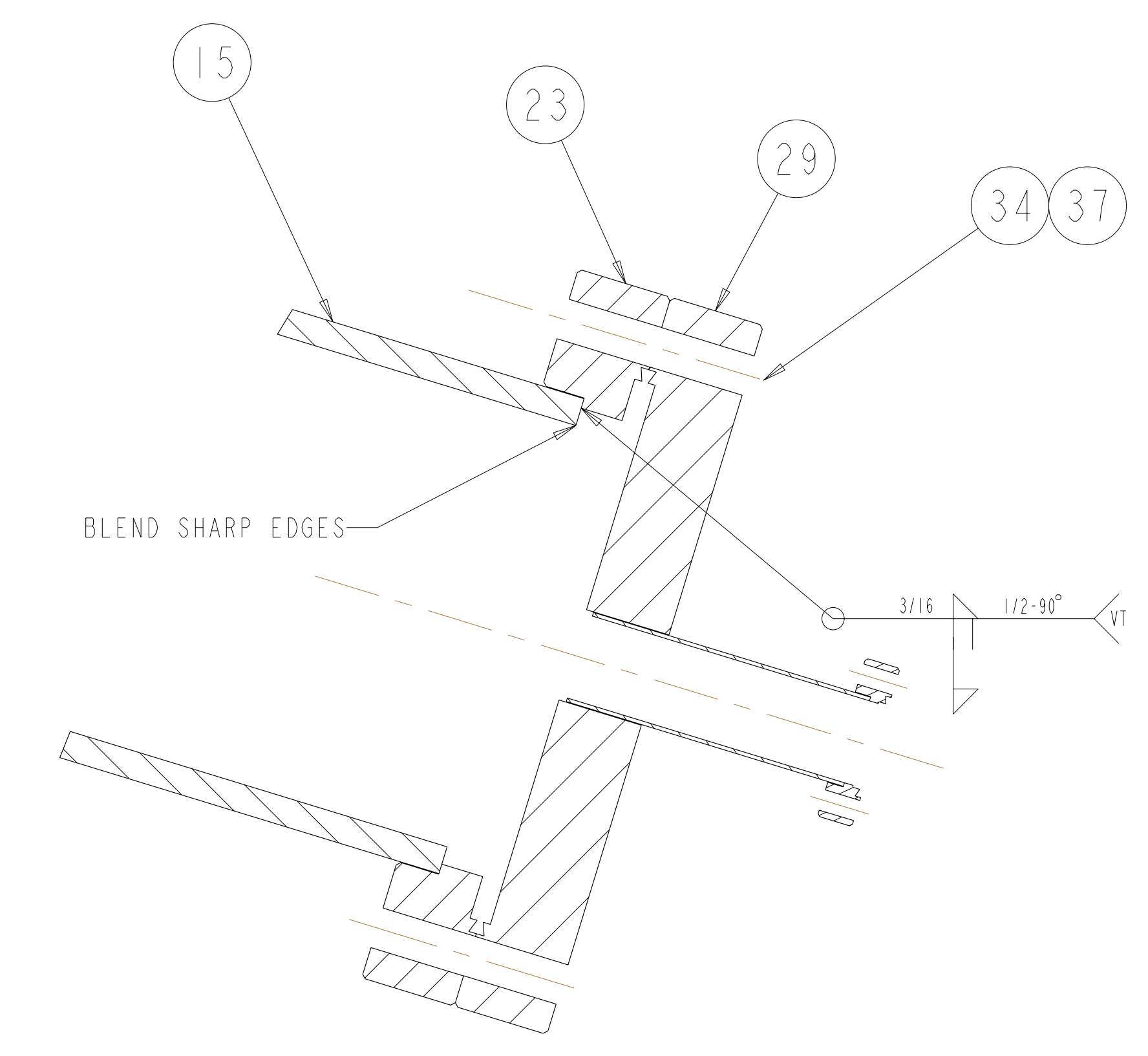
FOR PARTS LIST AND NOTES SEE SHEET 1.



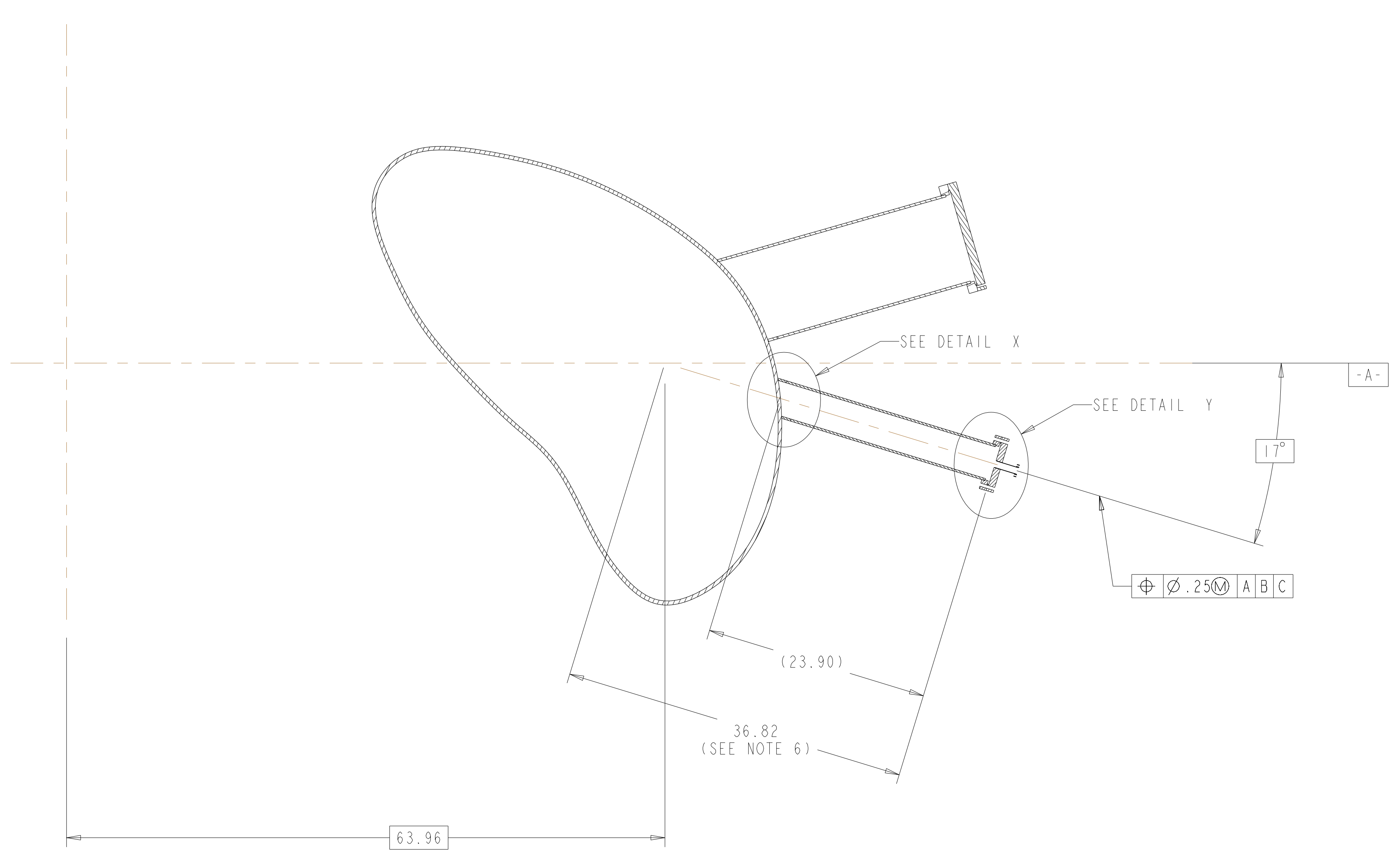
BOTTOM VIEW



DETAIL X  
SCALE 1.00



DETAIL Y  
SCALE 1.00



TYPICAL PORT 15A AND 15B  
SECTION PORT15-PORT15

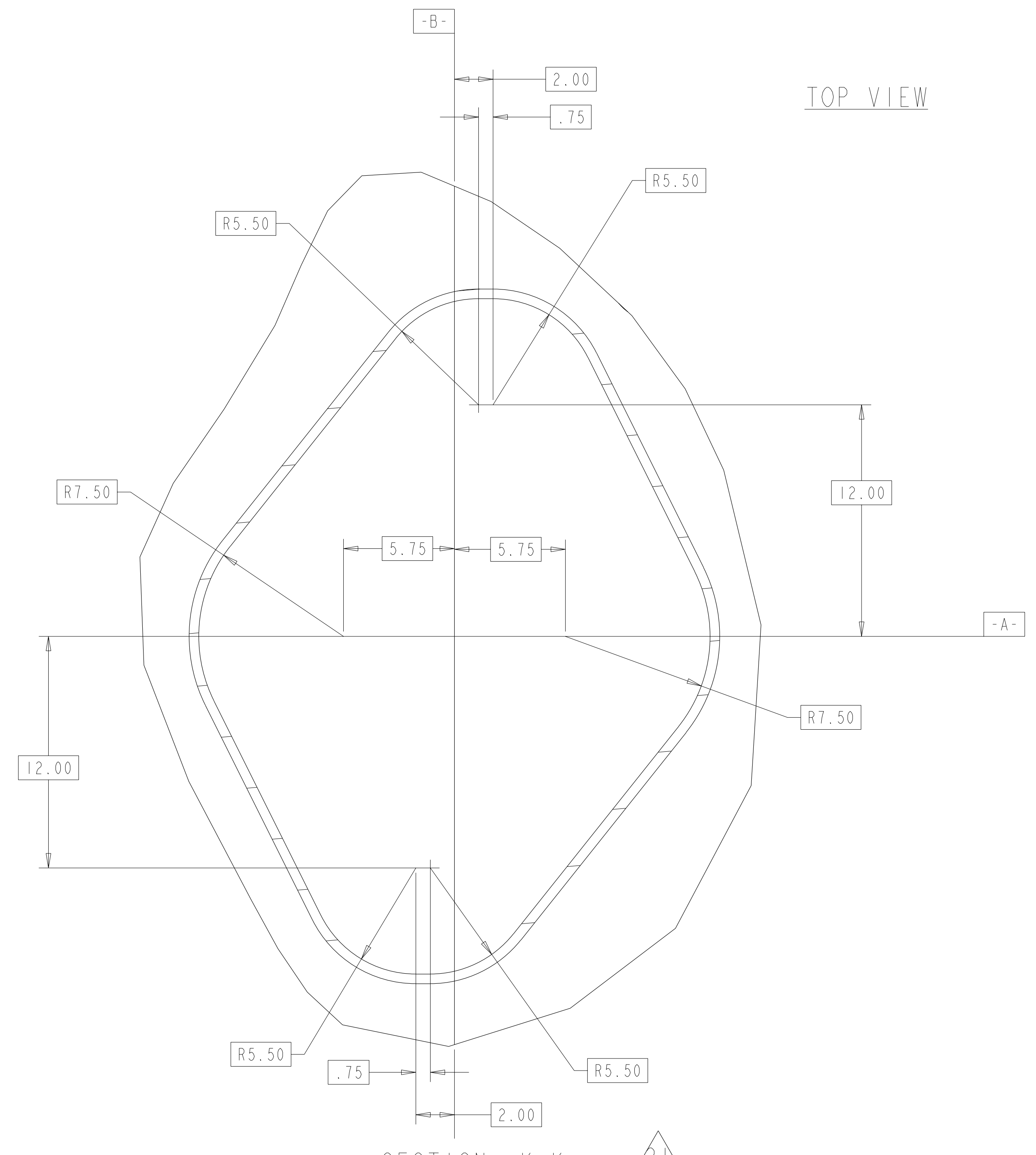
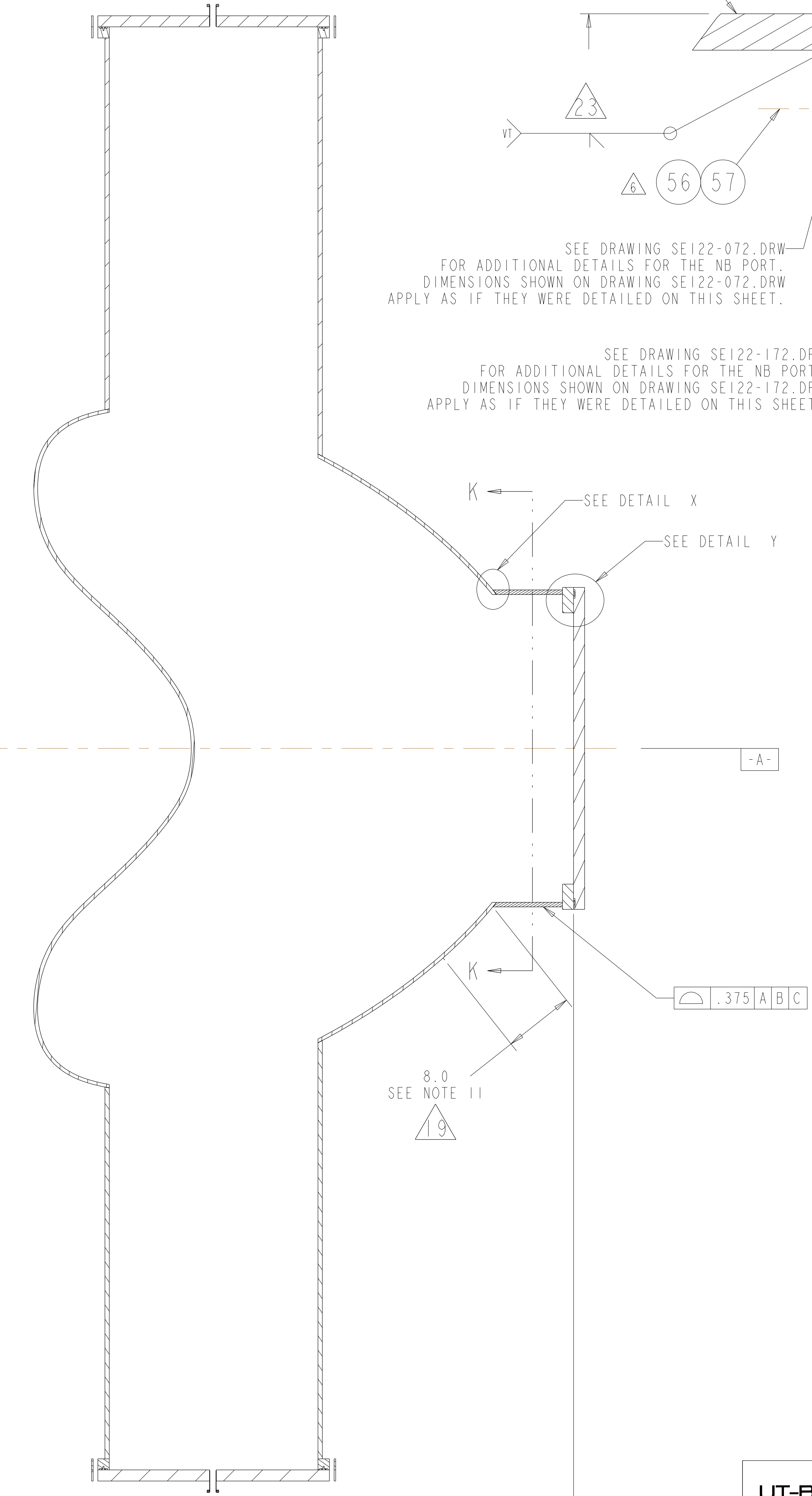
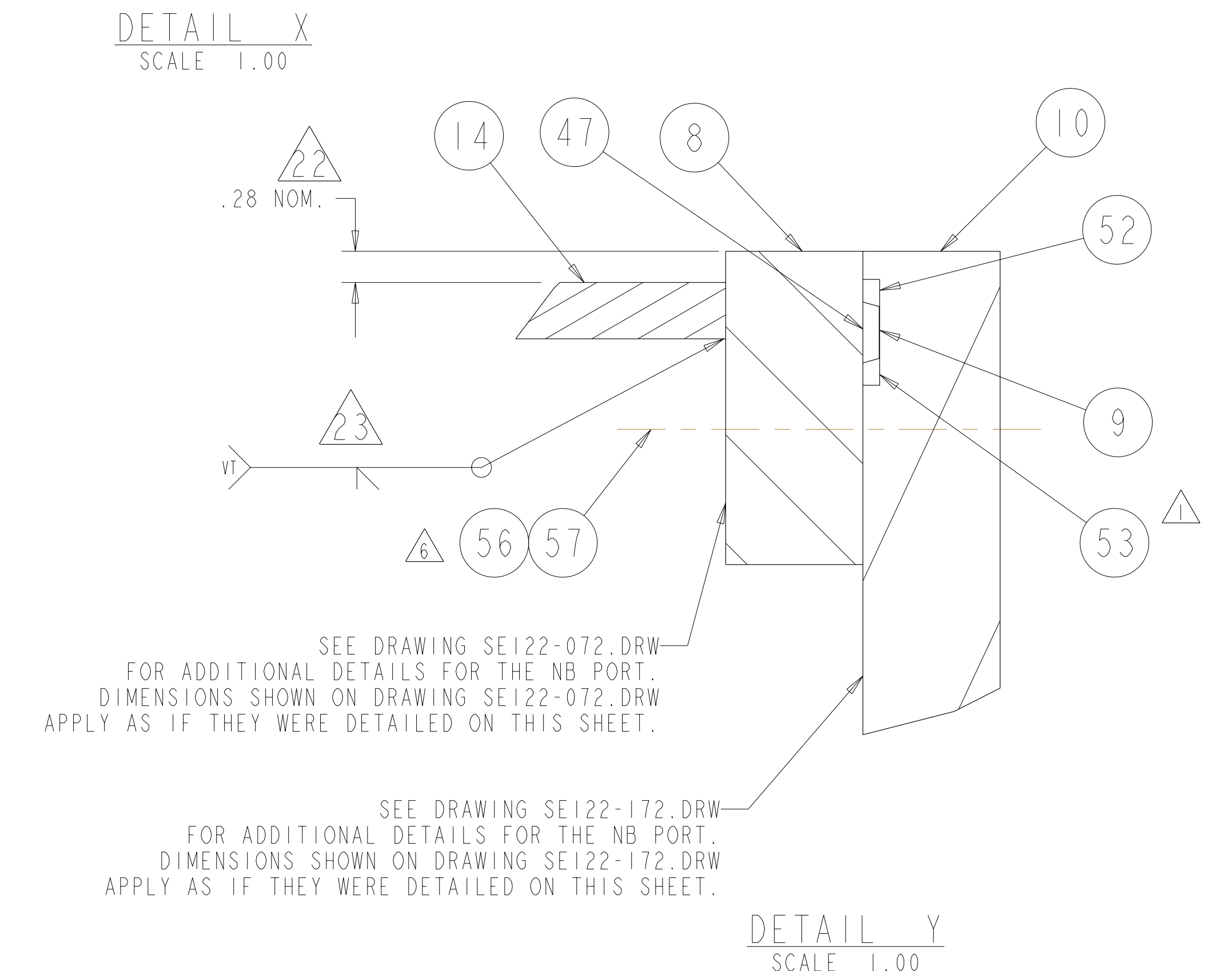
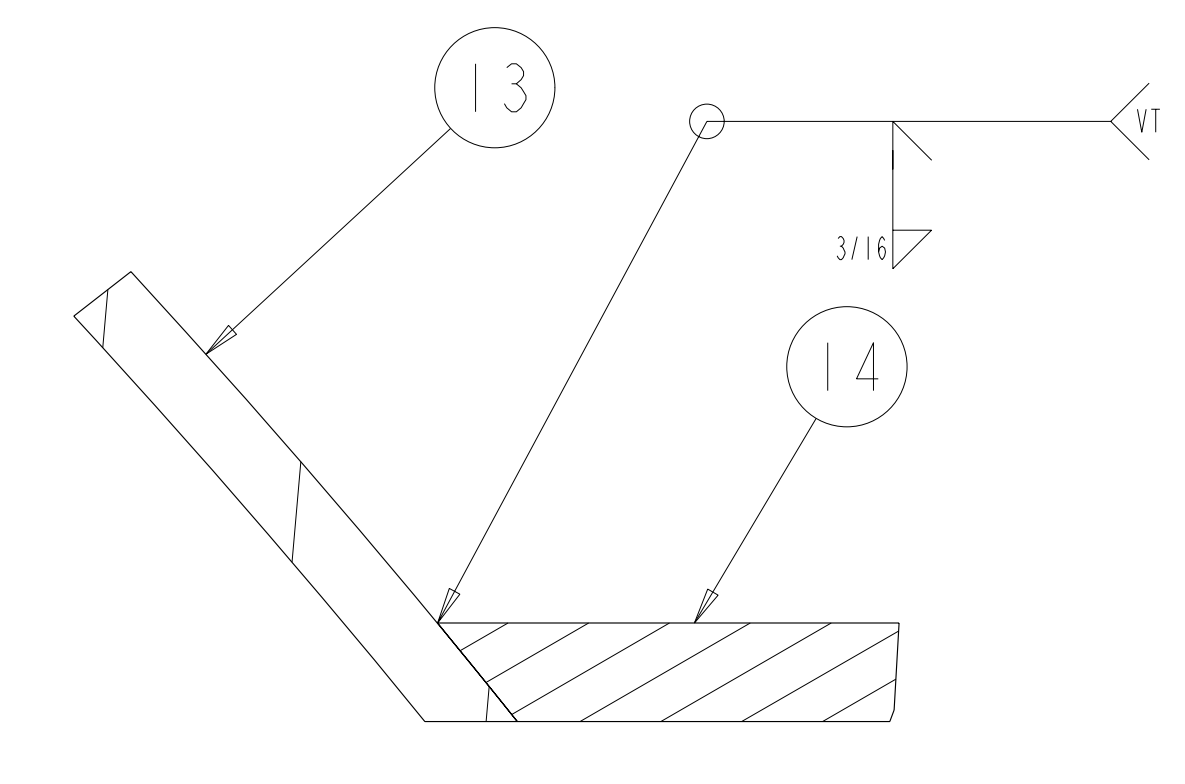
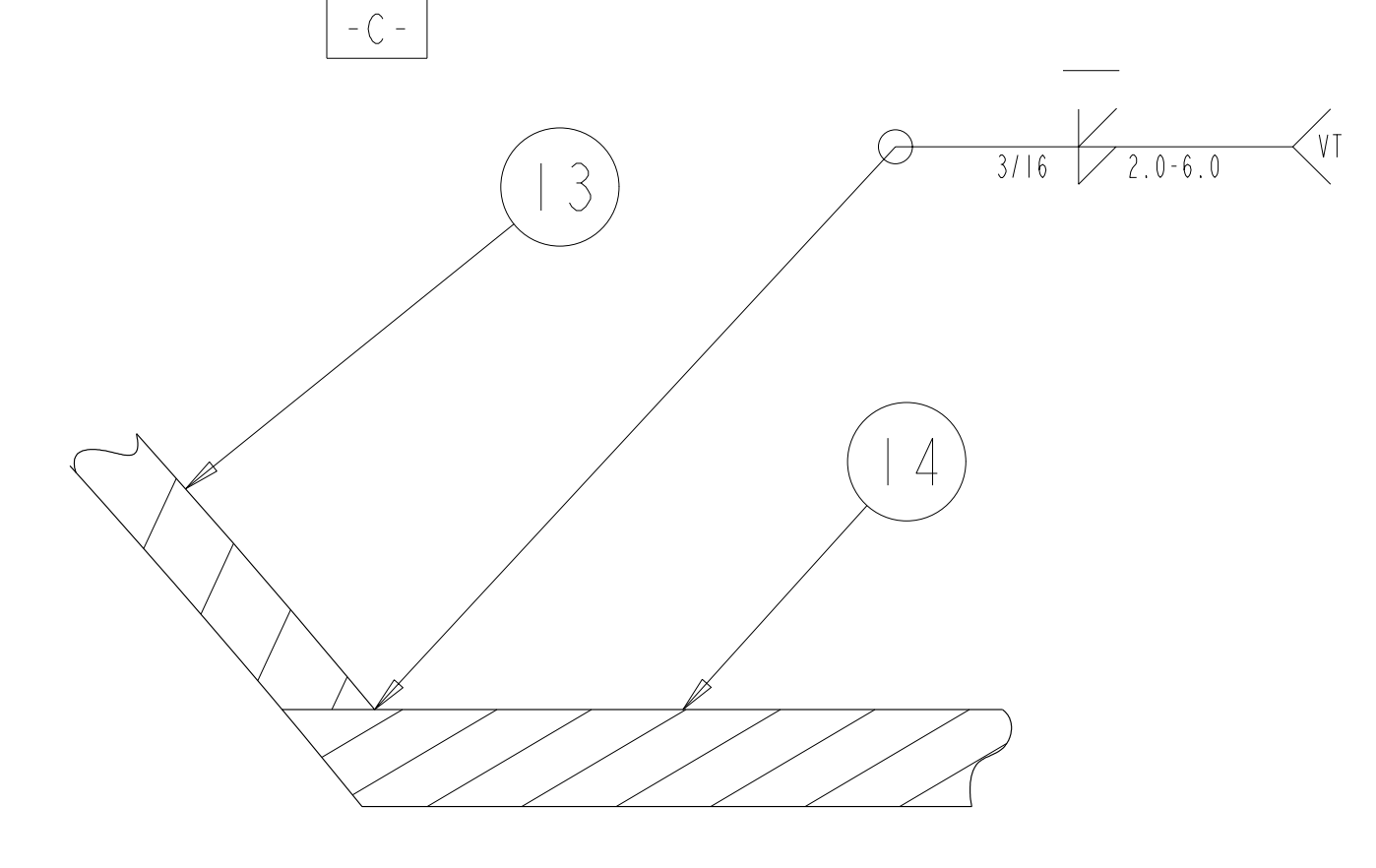
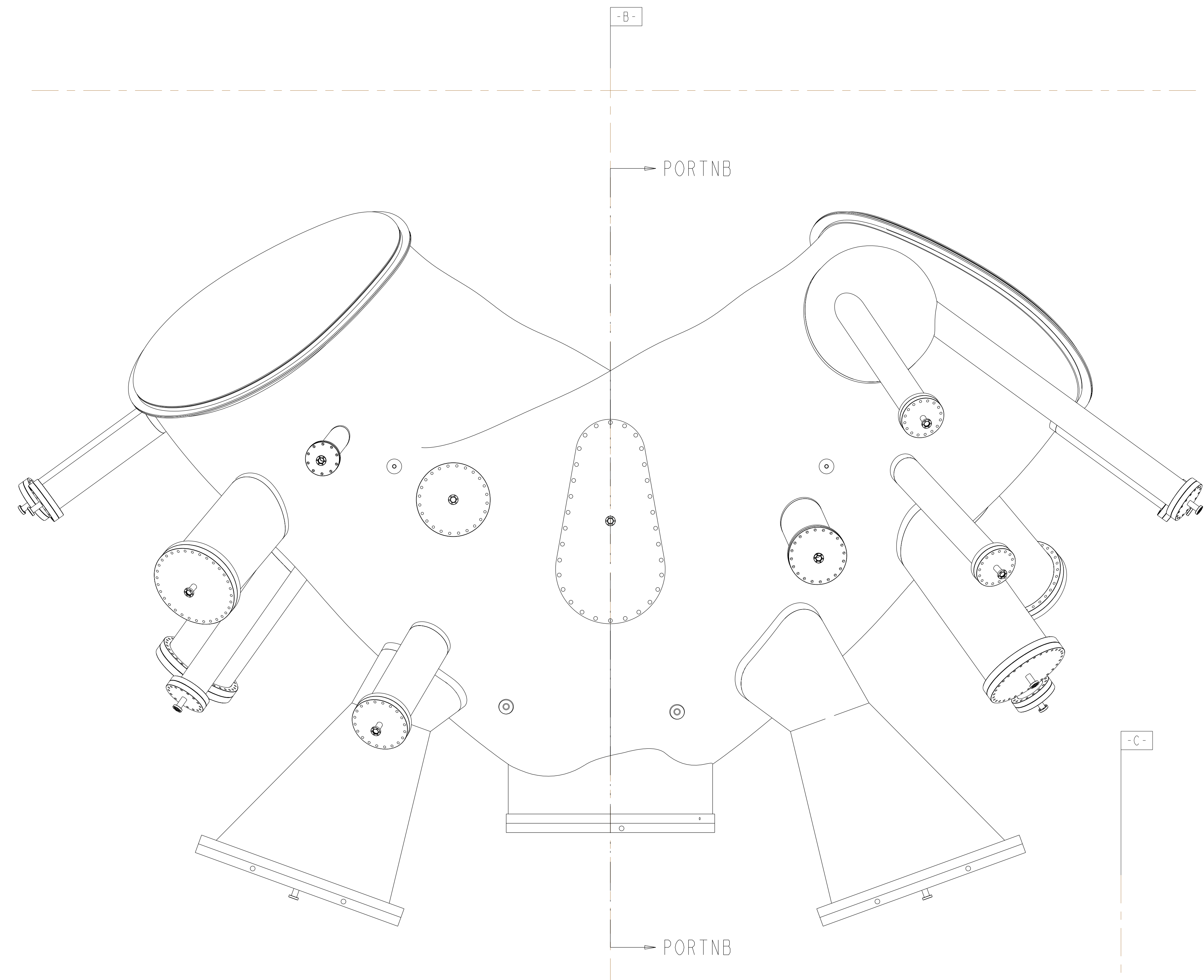
Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC., Oak Ridge, Tennessee PROJECT NAME						
NATIONAL COMPACT STELLARATOR EXPERIMENT VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
4	X-10	5700	3	14 19	A	U
RELEASE LEVEL	SEI20-004					REV
WIP						2

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SEI20-004



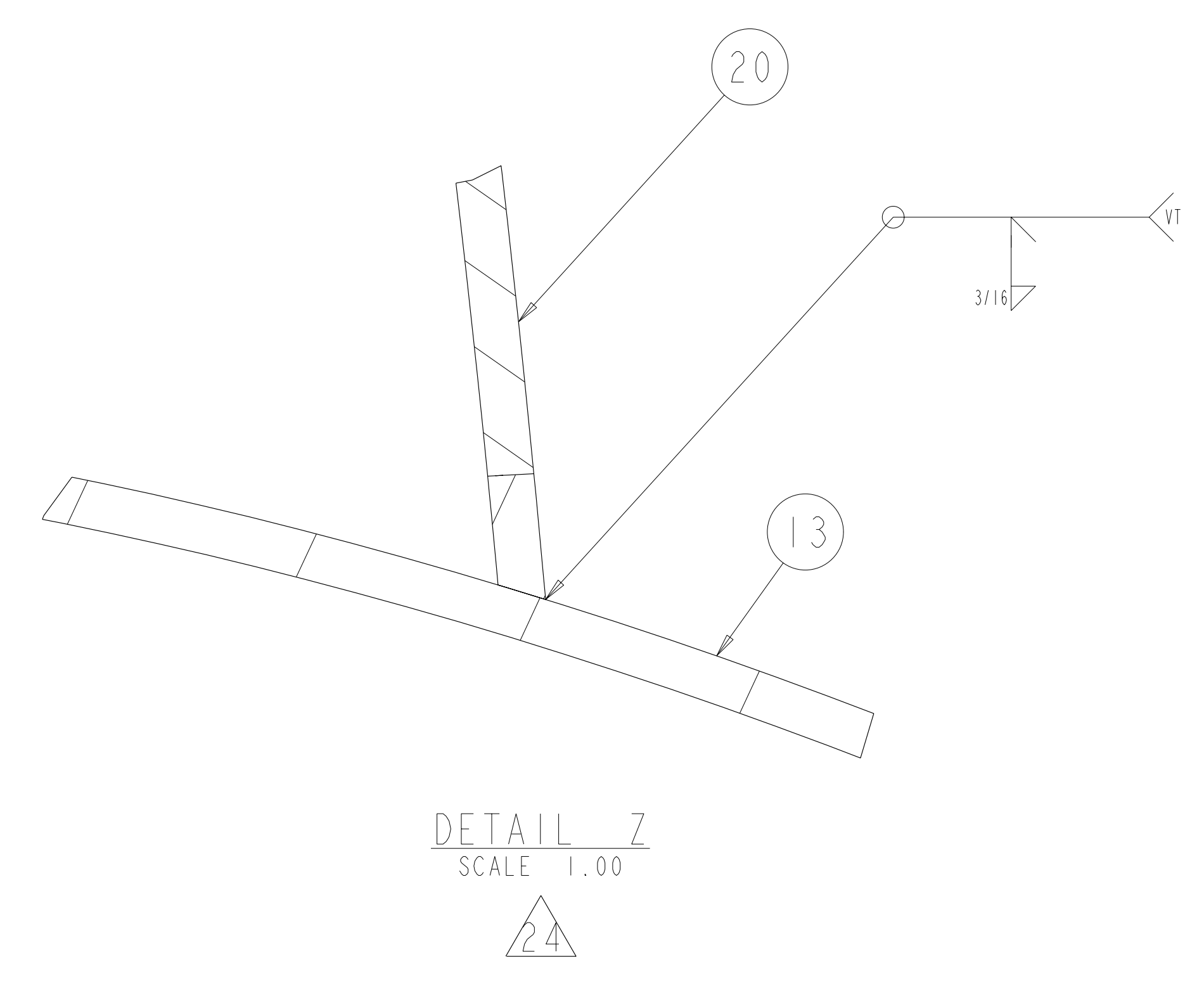
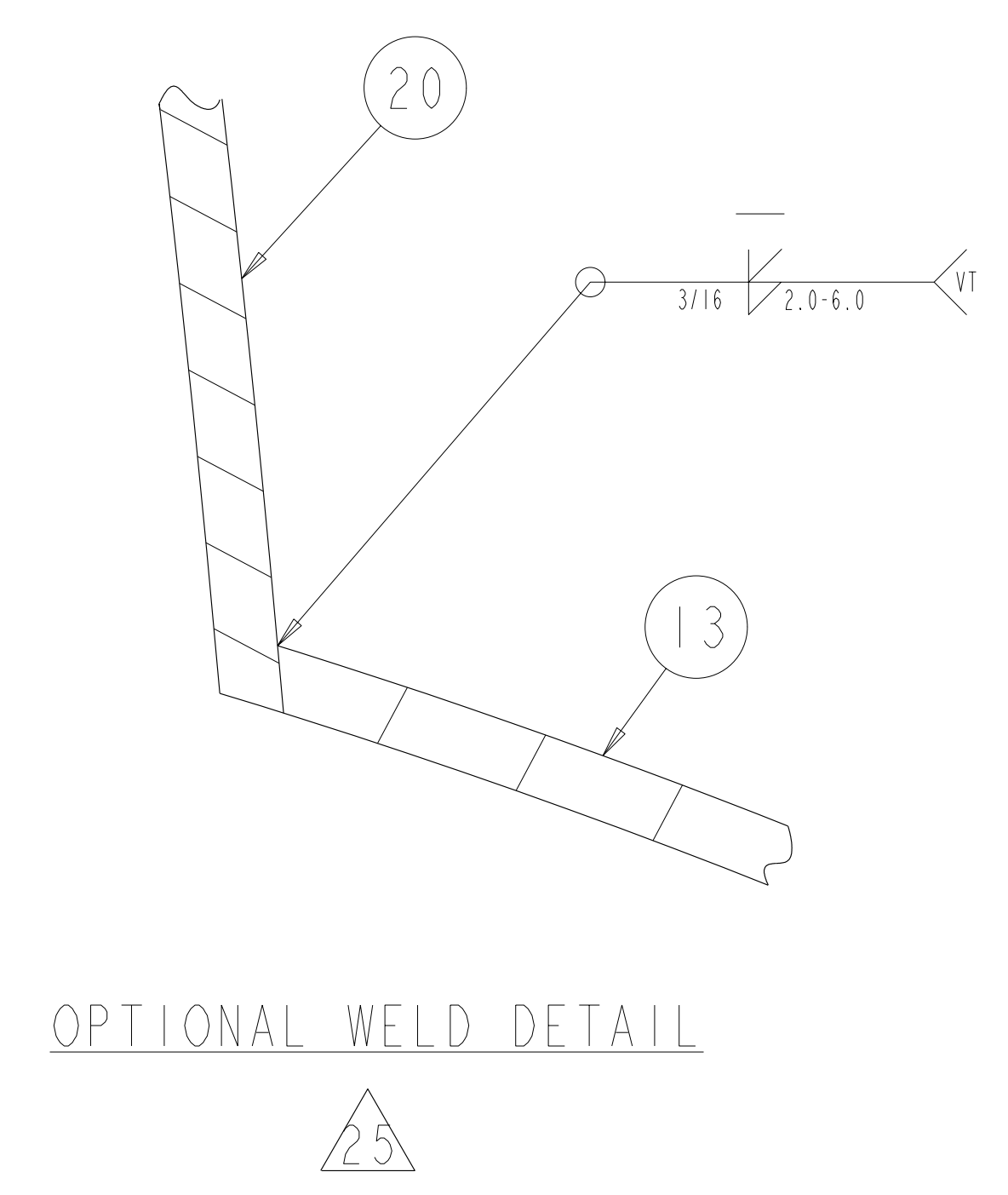
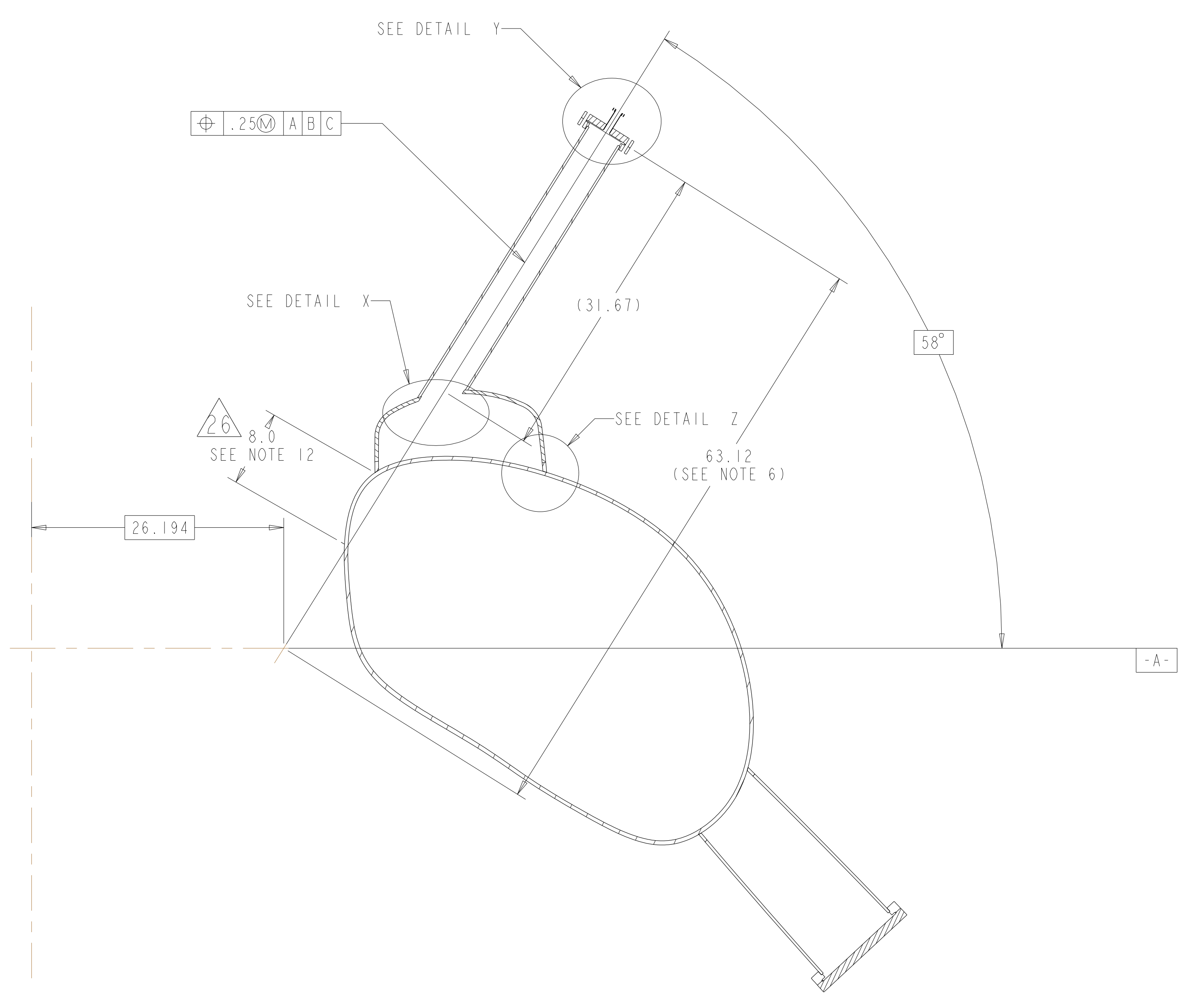
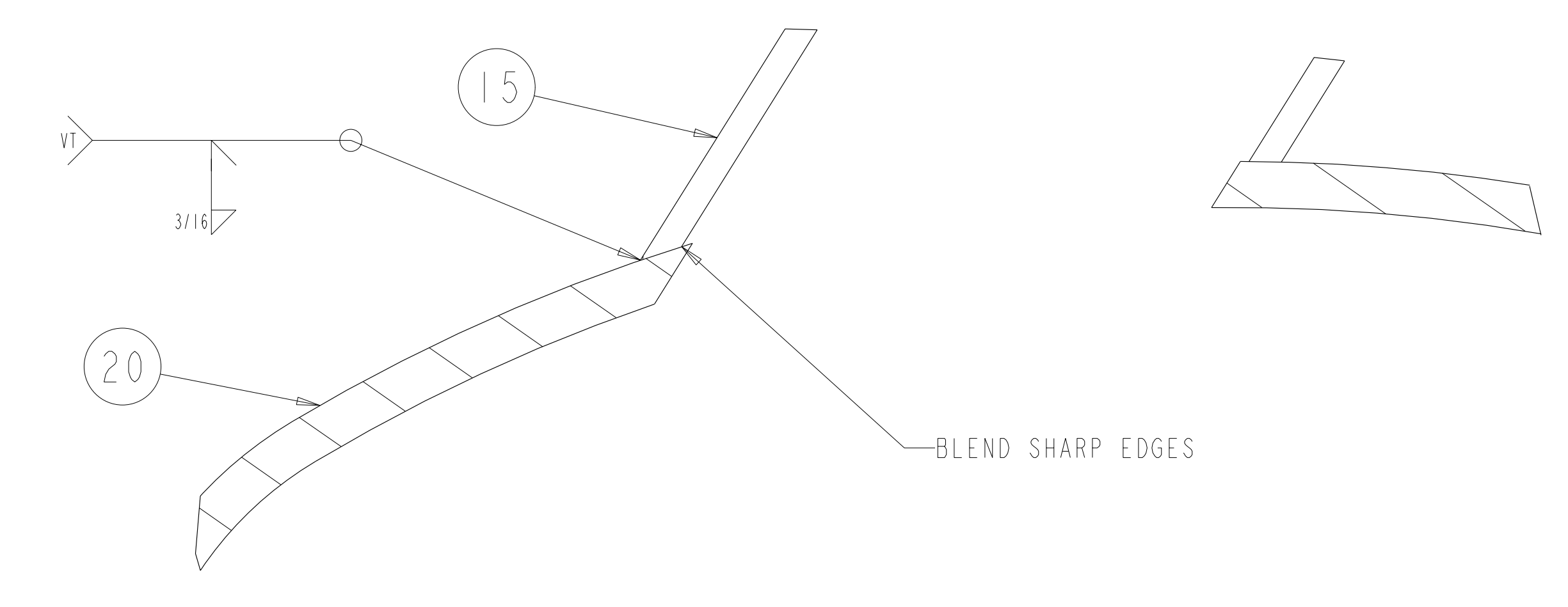
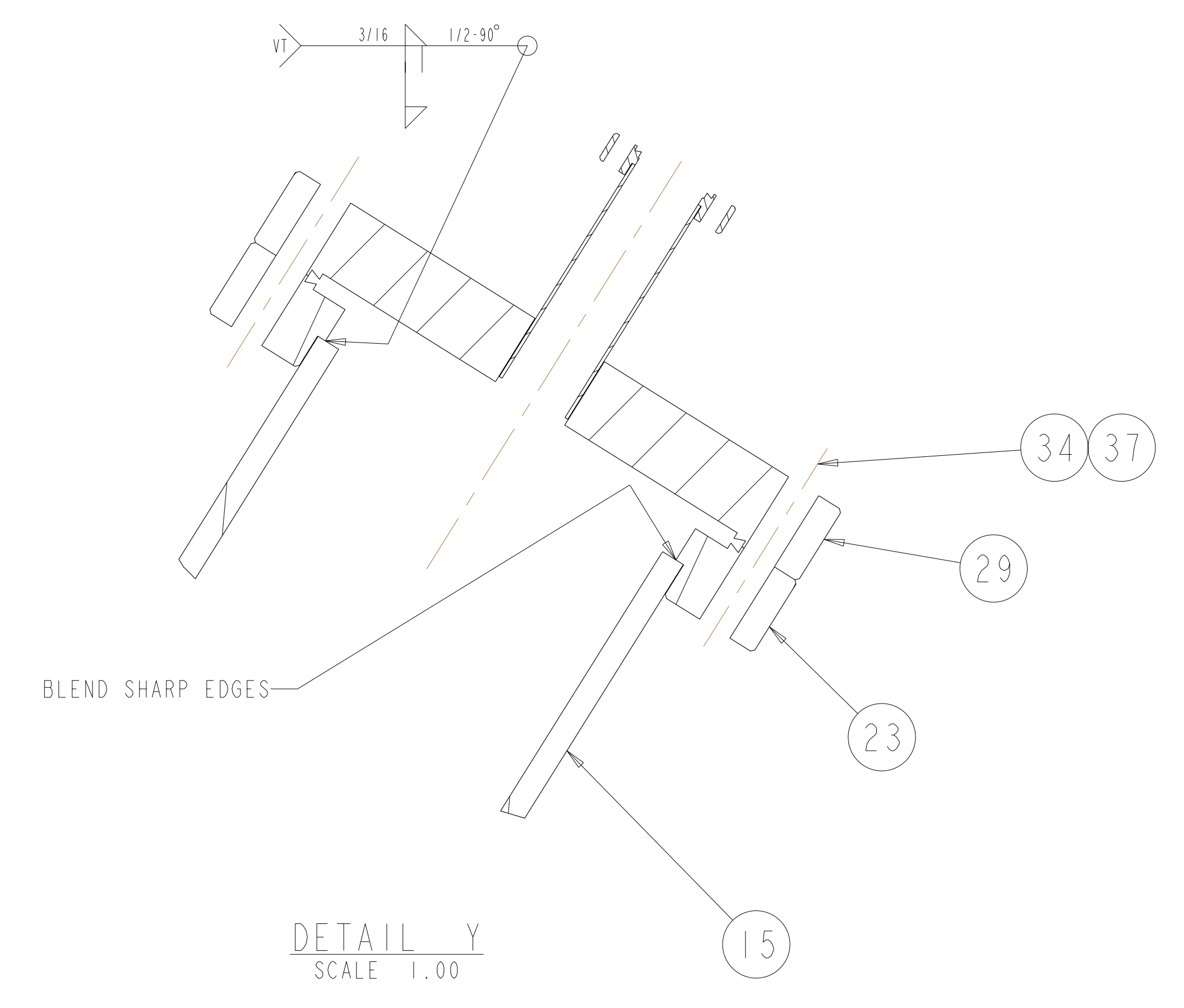
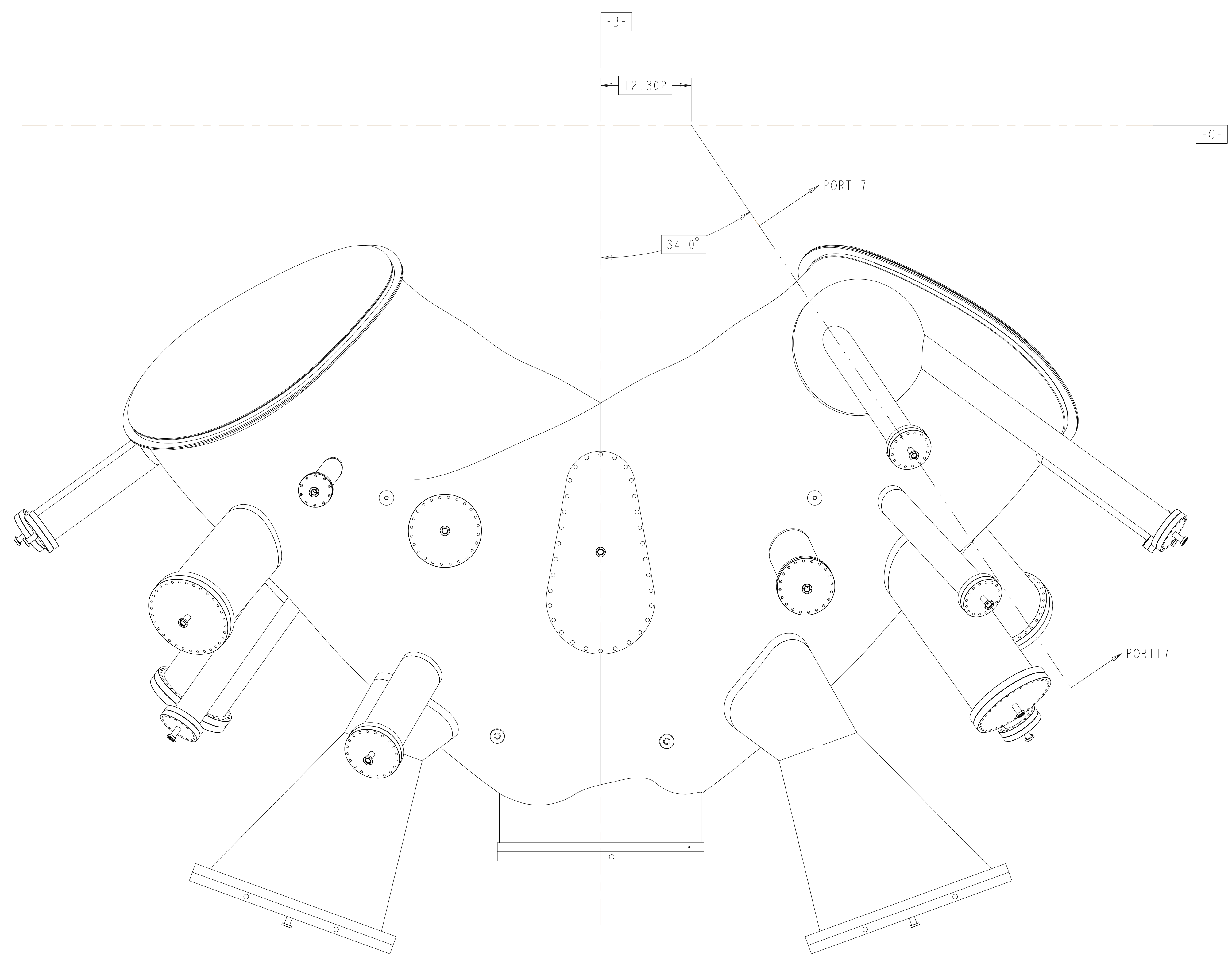
FOR PARTS LIST AND NOTES SEE SHEET 1



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 VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
4	X-10	5700	3	15 19	A	U
RELEASE LEVEL	SE120-004					REV
WIP						2

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FOR PARTS LIST AND NOTES SEE SHEET 1.



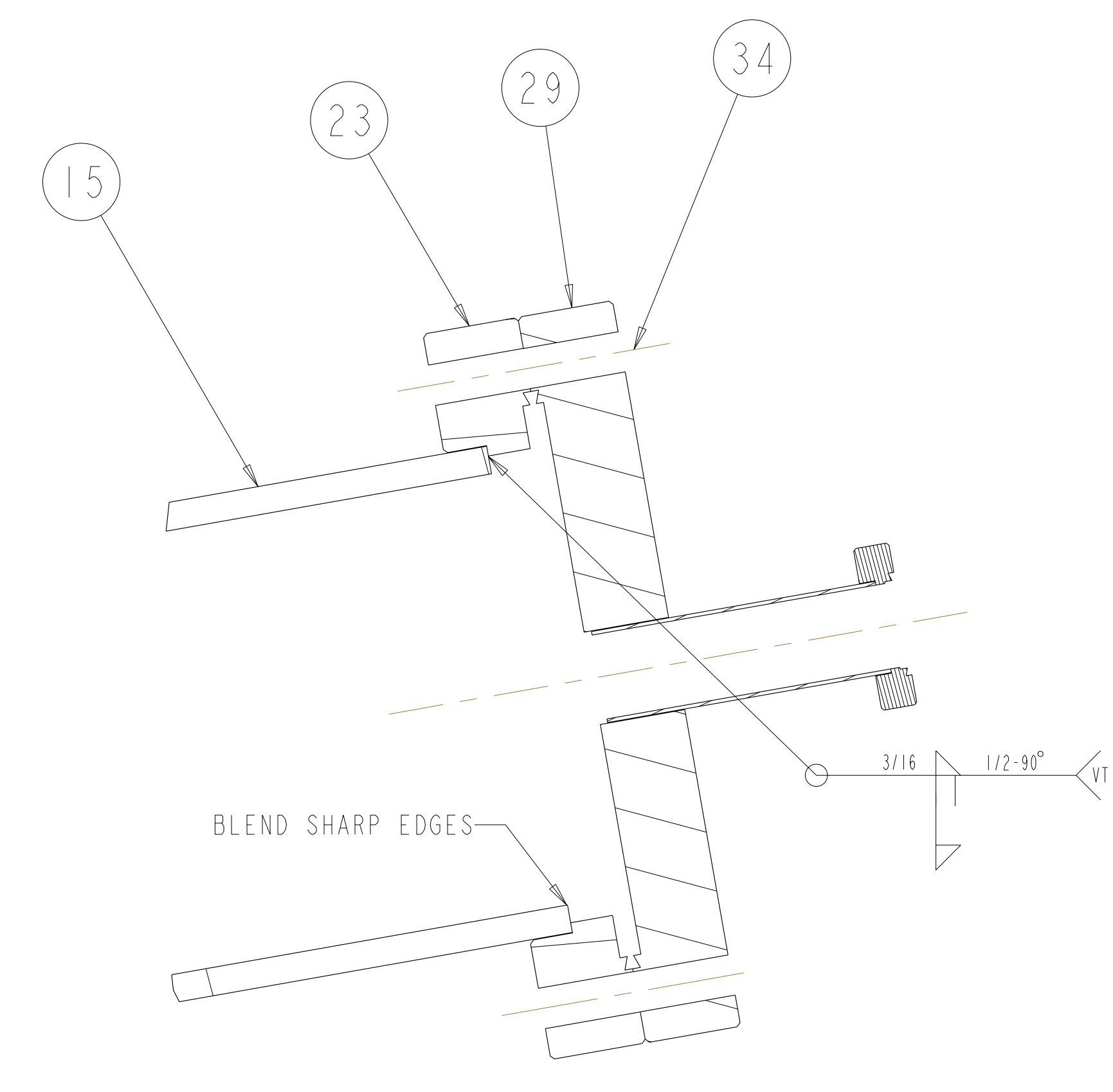
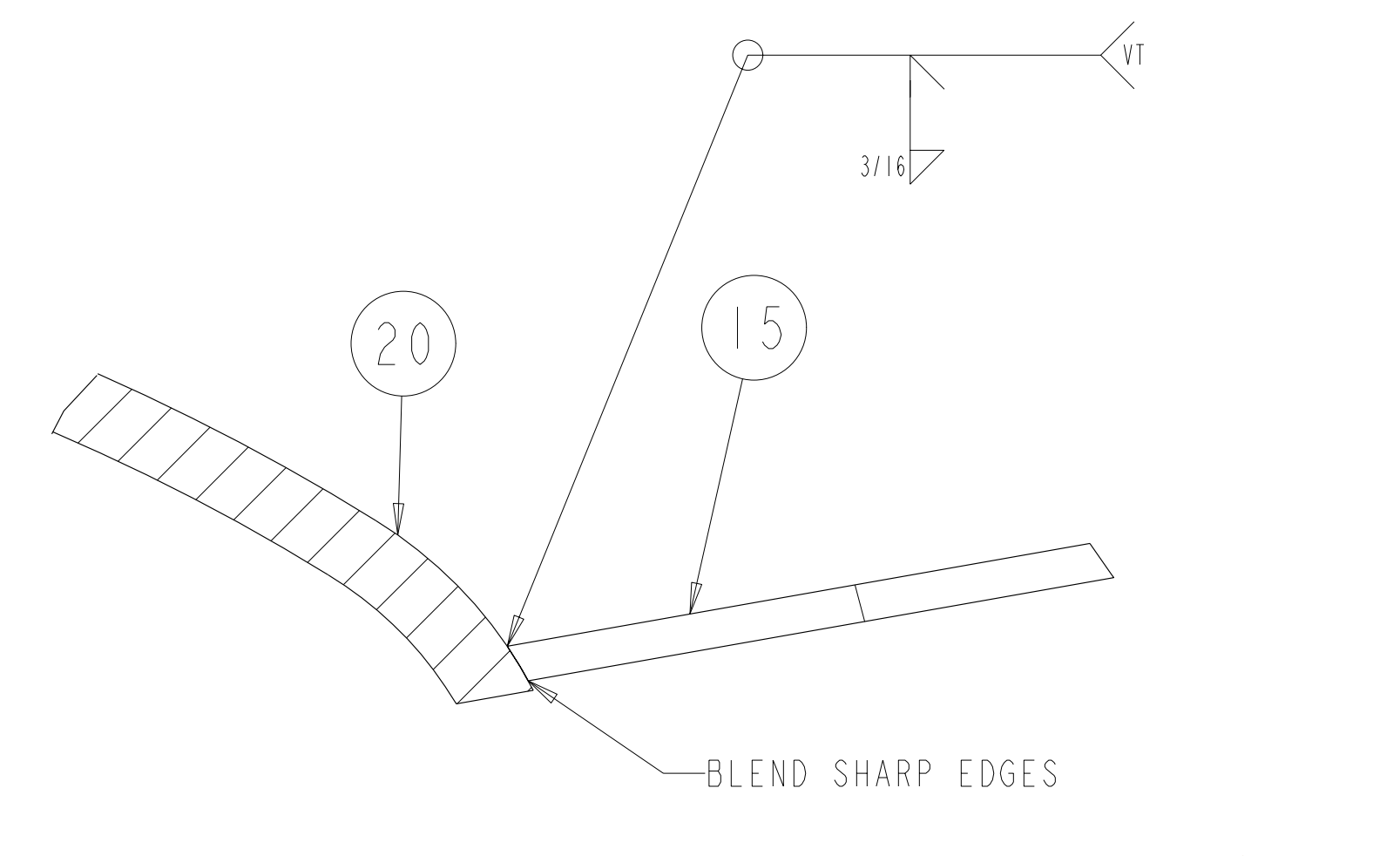
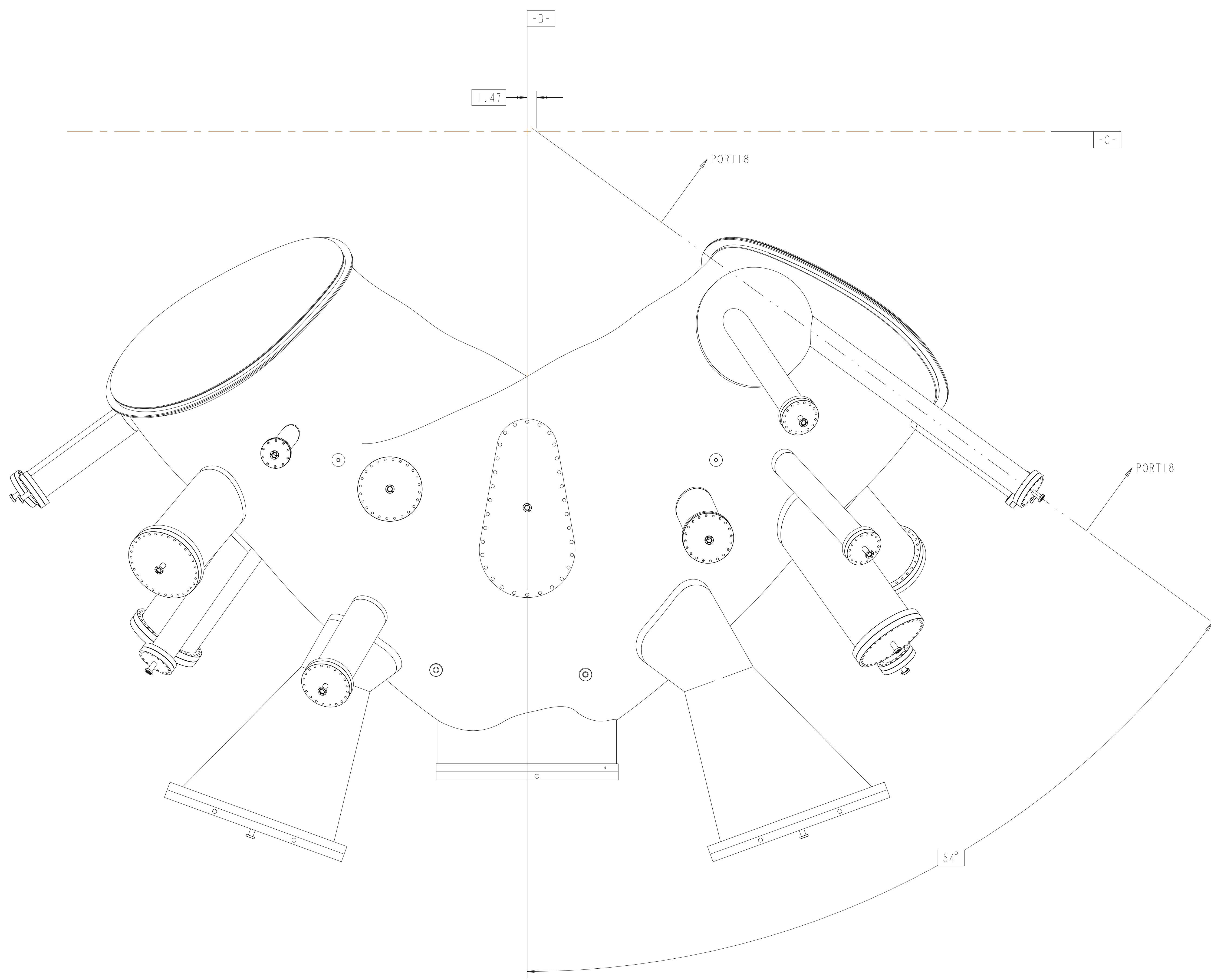
Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee PROJECT NAME						
NATIONAL COMPACT STELLARATOR EXPERIMENT VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
4	X-10	5700	3	16	19	A
RELEASE LEVEL	SEI20-004					REV
WIP						2

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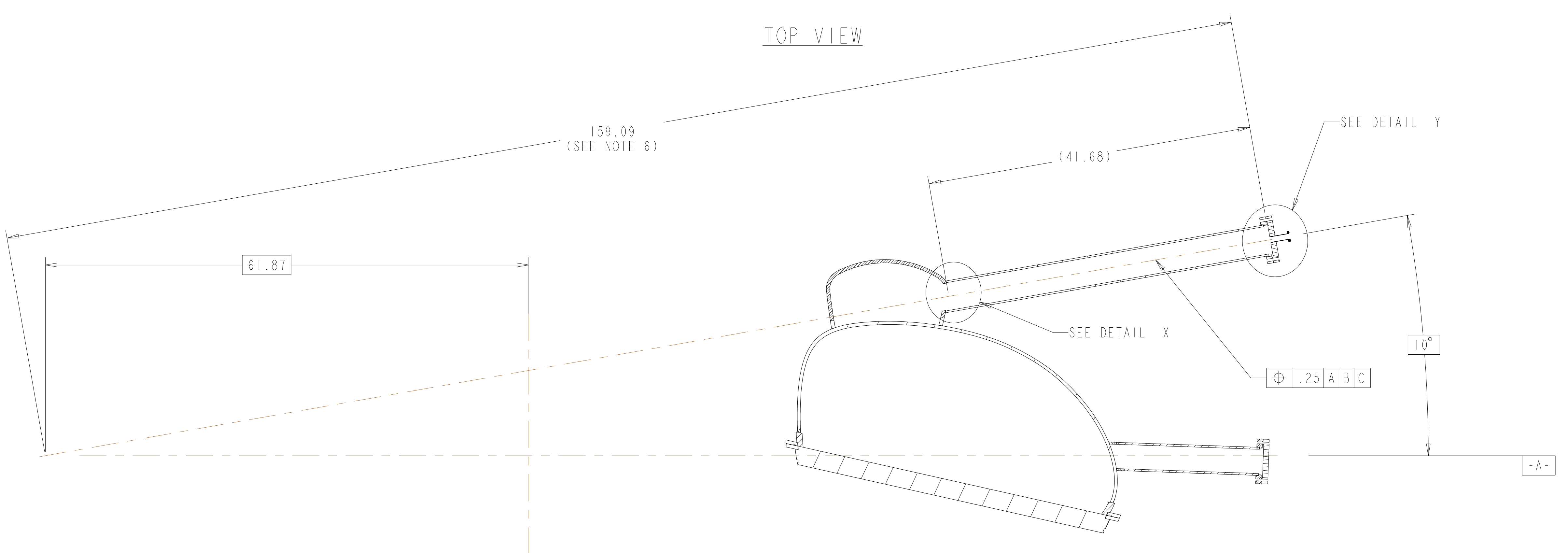
H  
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FOR PARTS LIST AND NOTES SEE SHEET 1.



TOP VIEW



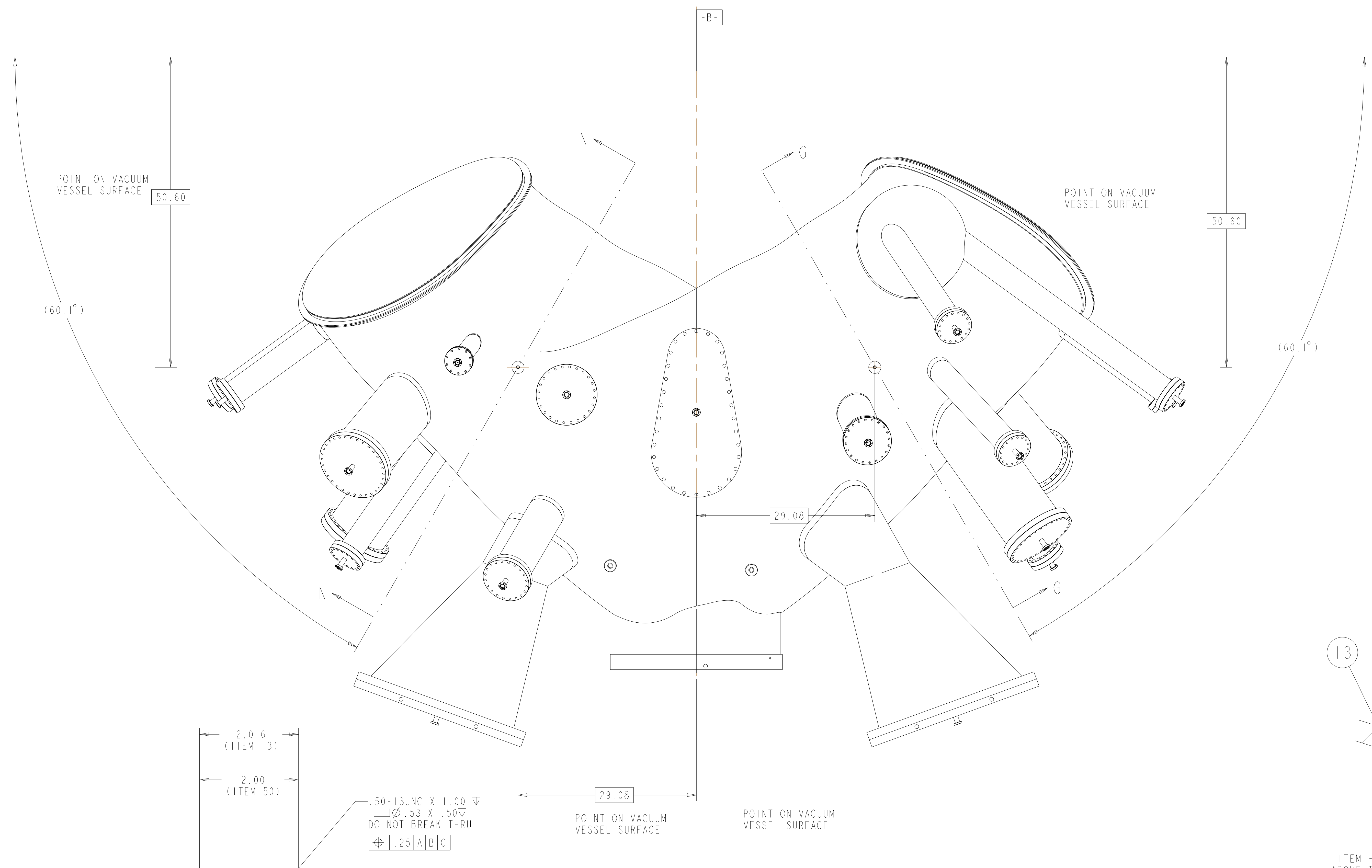
TYPICAL PORT 18A AND 18B  
 SECTION PORT18-PORT18

<b>UT-BATTELLE</b>		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							
VACUUM VESSEL							
PERIOD INSPECTION AND LEAK CHECK							
ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
4	X-10	5700	3	17 19	A	U	
RELEASE LEVEL	SE120-004					REV	
WIP						2	

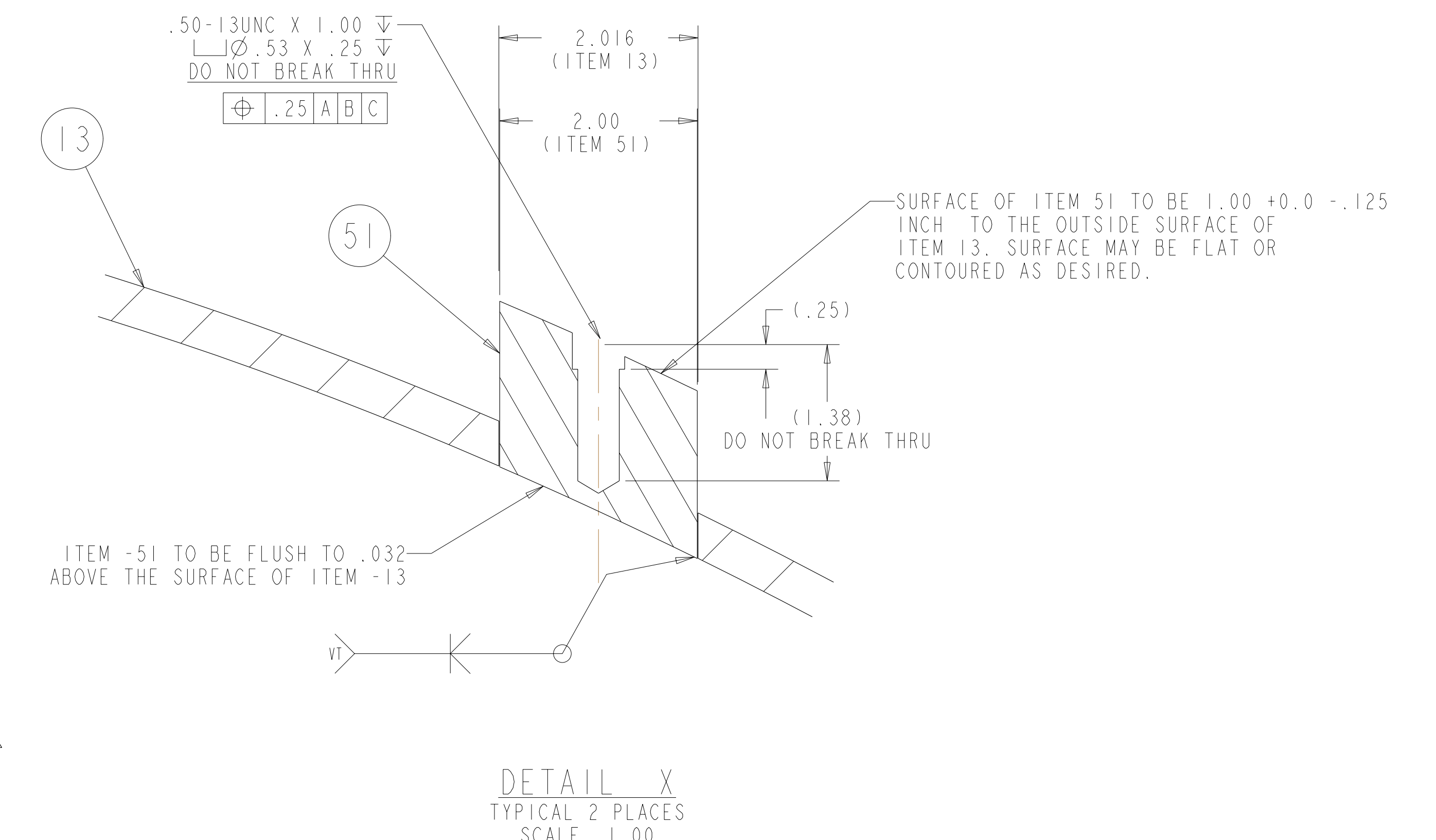
H  
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SE120-004

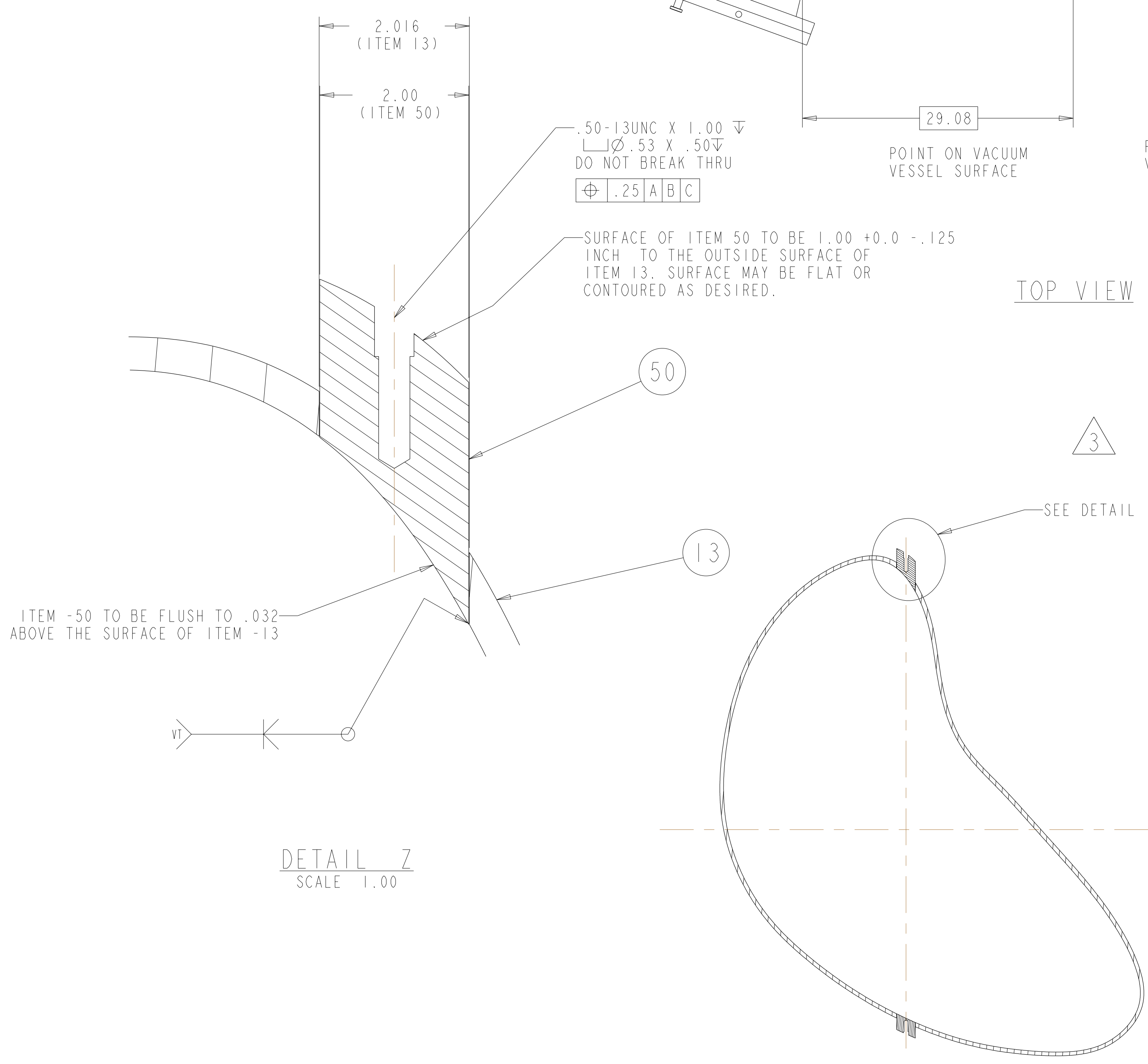
FOR PARTS LIST AND NOTES SEE SHEET 1.



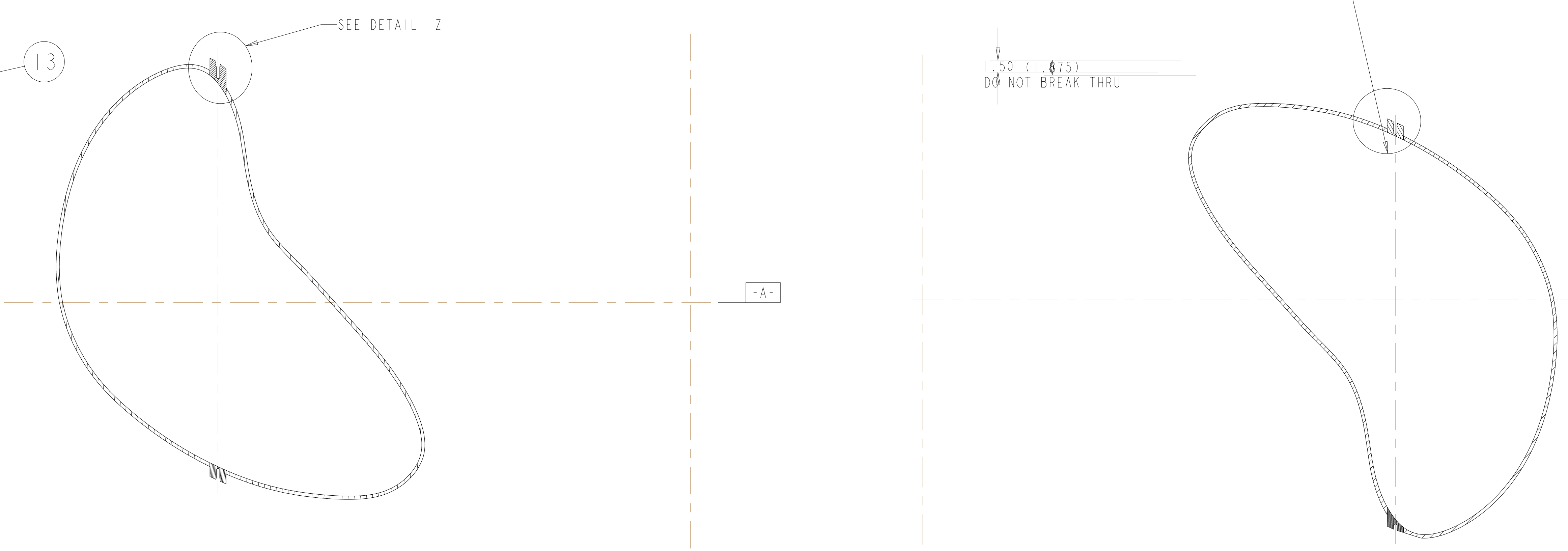
TOP VIEW



DETAIL X



DETAIL Z



SECTION N-N

SECTION G-G

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					
NATIONAL COMPACT STELLARATOR EXPERIMENT							
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
2+	X-10	5700	3	8	19	A	U
RELEASE LEVEL	SEI20-004						REV
WIP							2

SEI20-004



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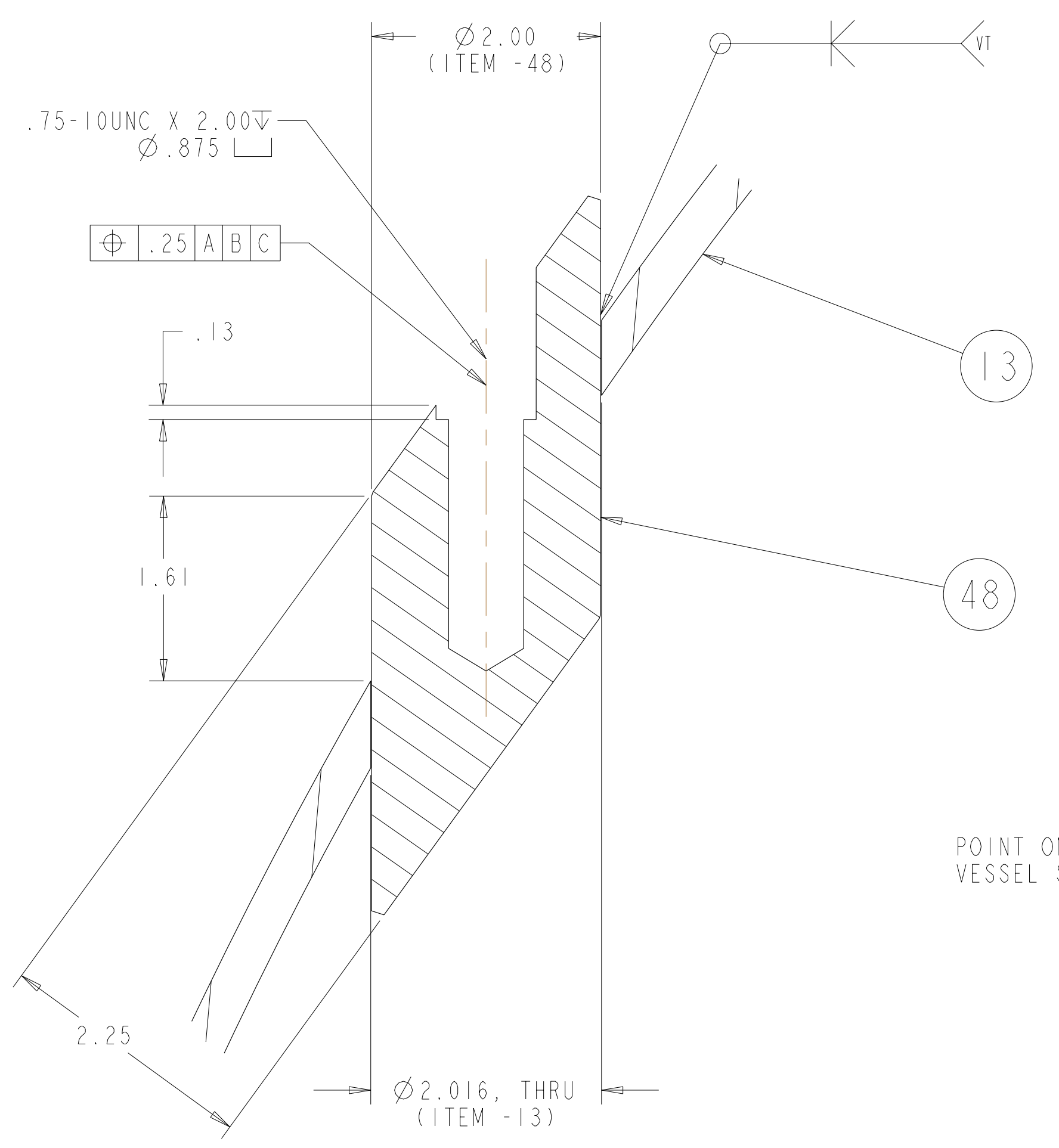
4

3

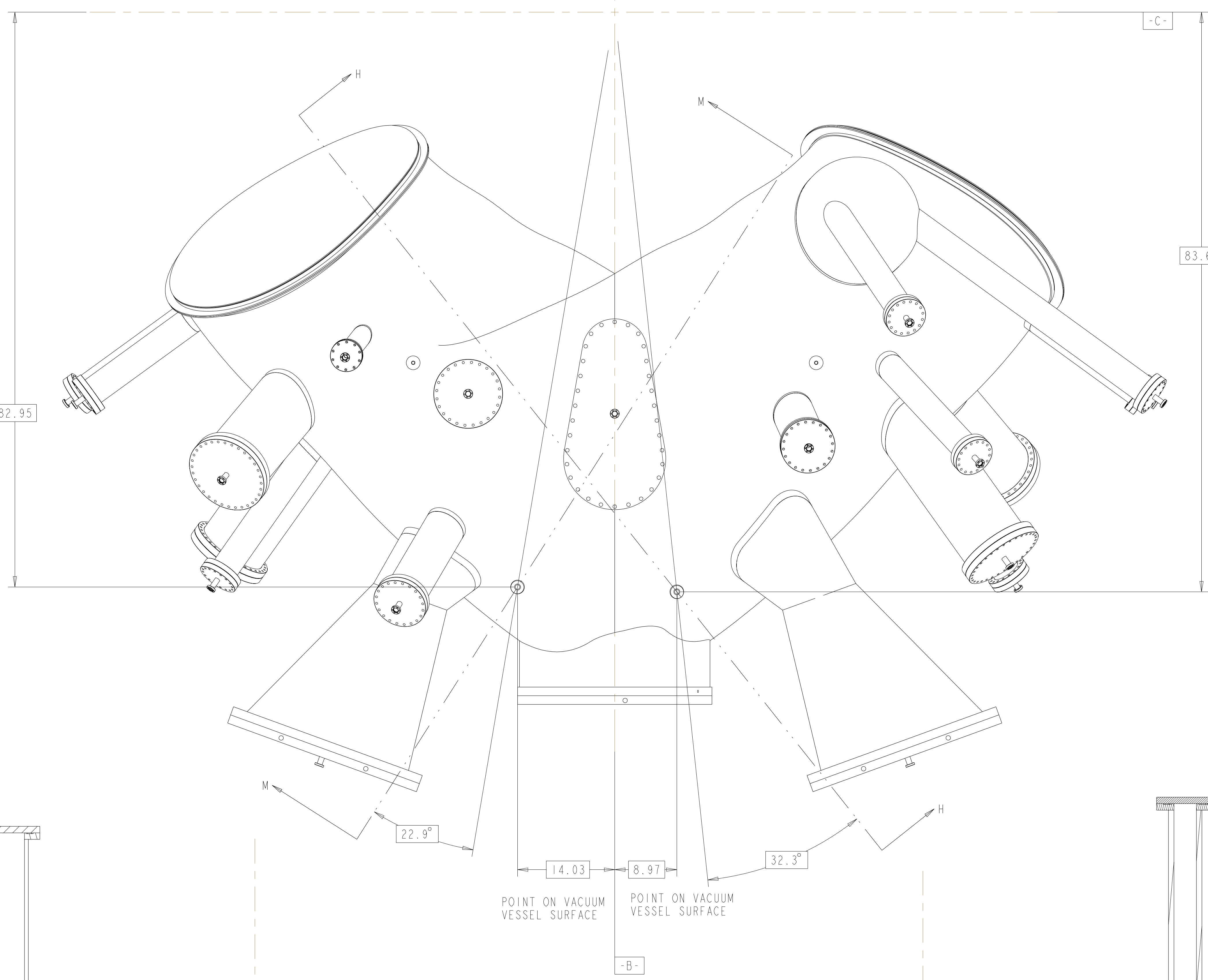
2

1

NEXT ASS'Y: 1 FINAL ASS'Y:



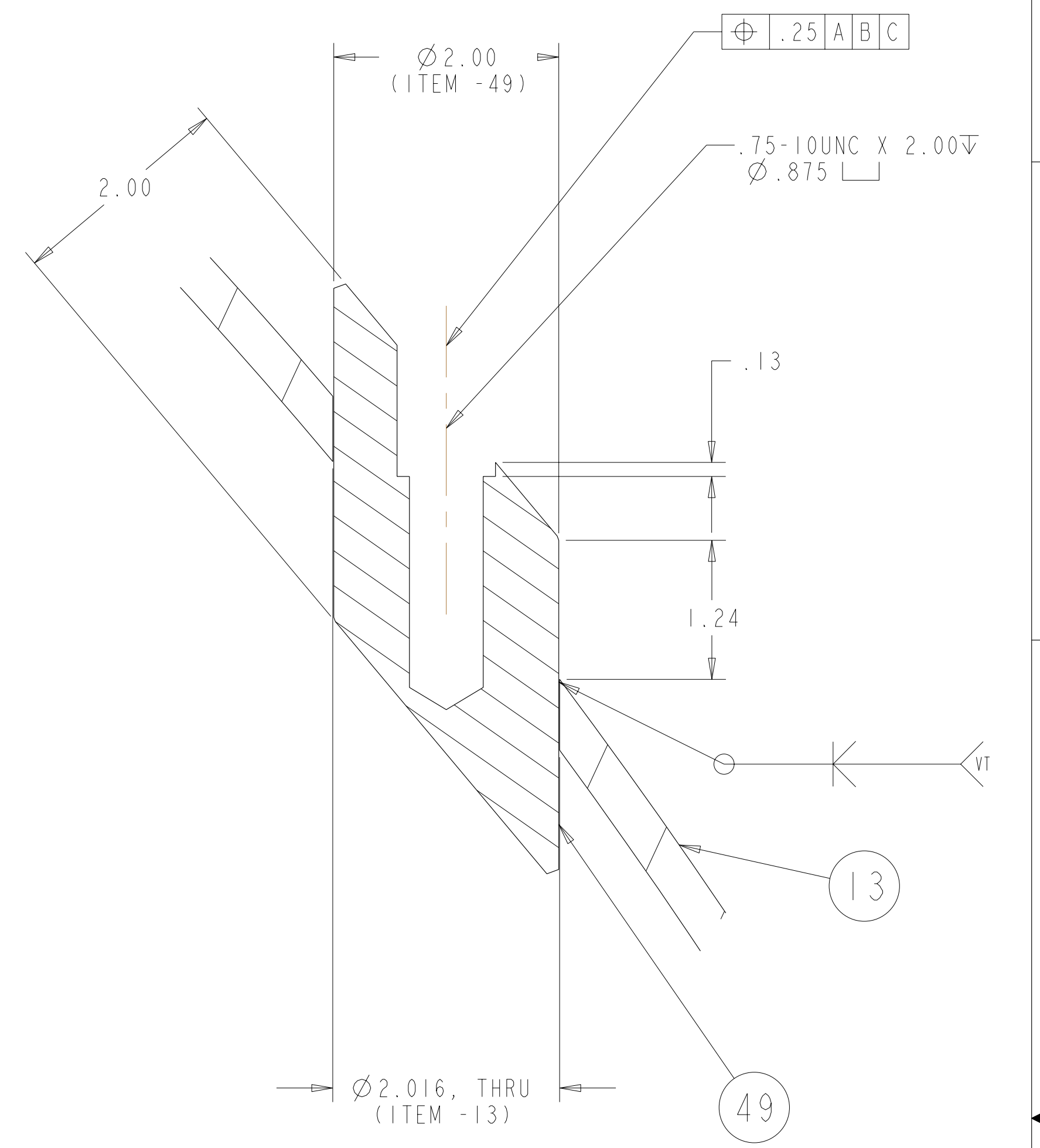
DETAIL W  
SCALE 1.00



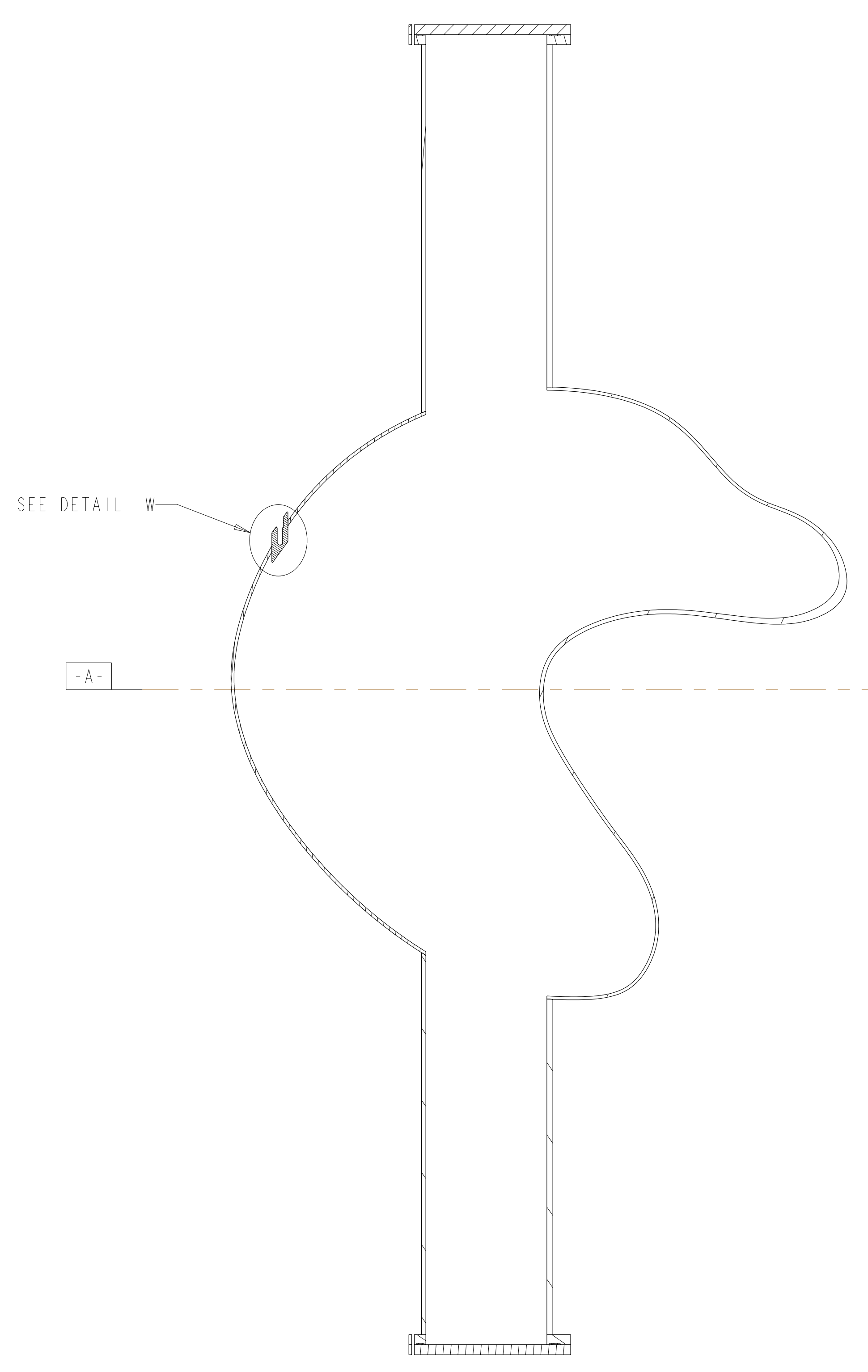
TOP VIEW

FOR PARTS LIST AND NOTES SEE SHEET 1.

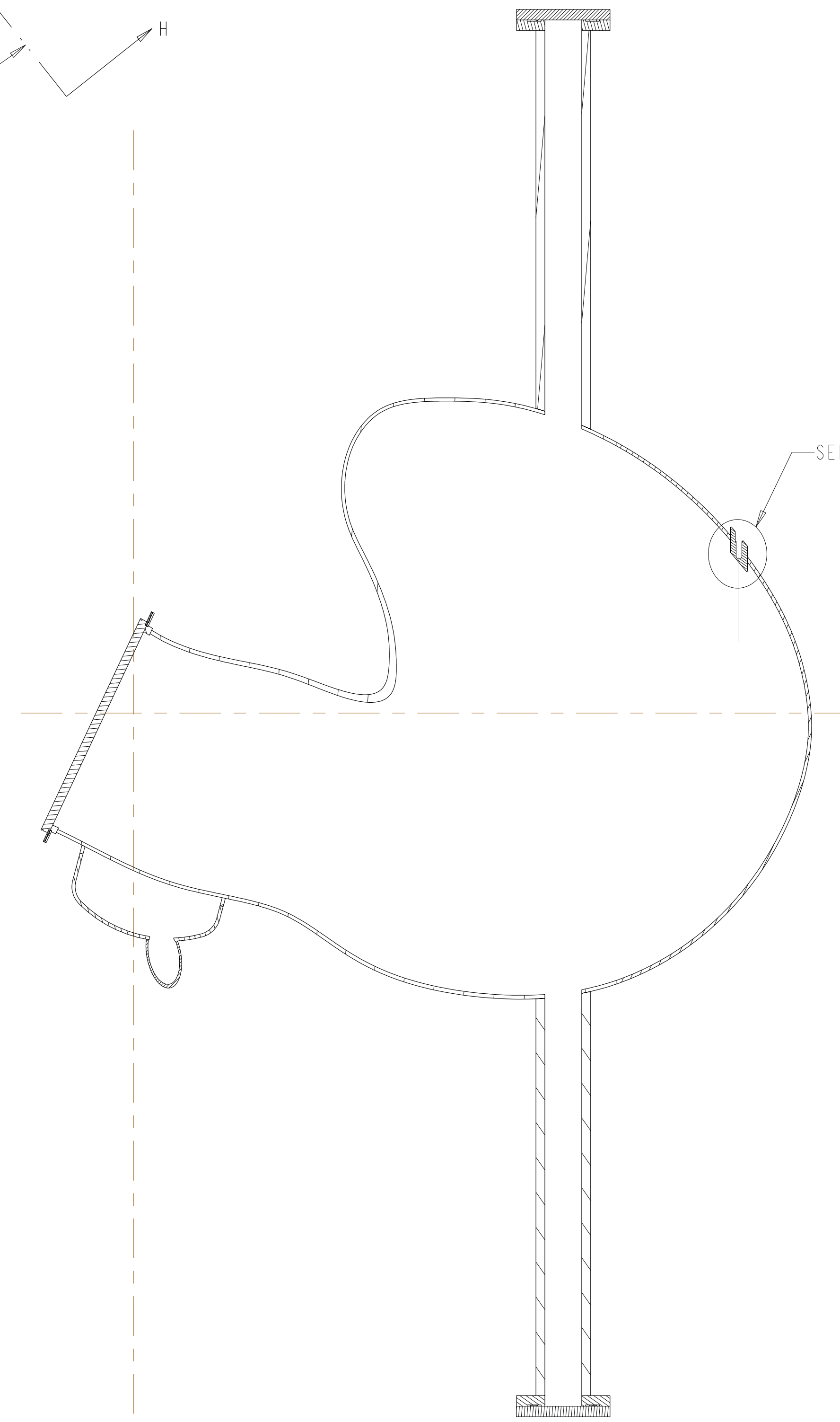
POINT ON VACUUM VESSEL SURFACE



DETAIL Y  
SCALE 1.00



SECTION M-M  
SCALE 0.09



SECTION H-H  
SCALE 0.09

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						
<b>UT-BATTELLE</b> NATIONAL COMPACT STELLARATOR EXPERIMENT VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY						
VERSION NO. 4	PLANT X-10	BLDG 5700	FL 3	SHT OF 19 19	TYPE A	CLASS U
RELEASE LEVEL WIP	SEI20-004				REV 2	

SEI20-004