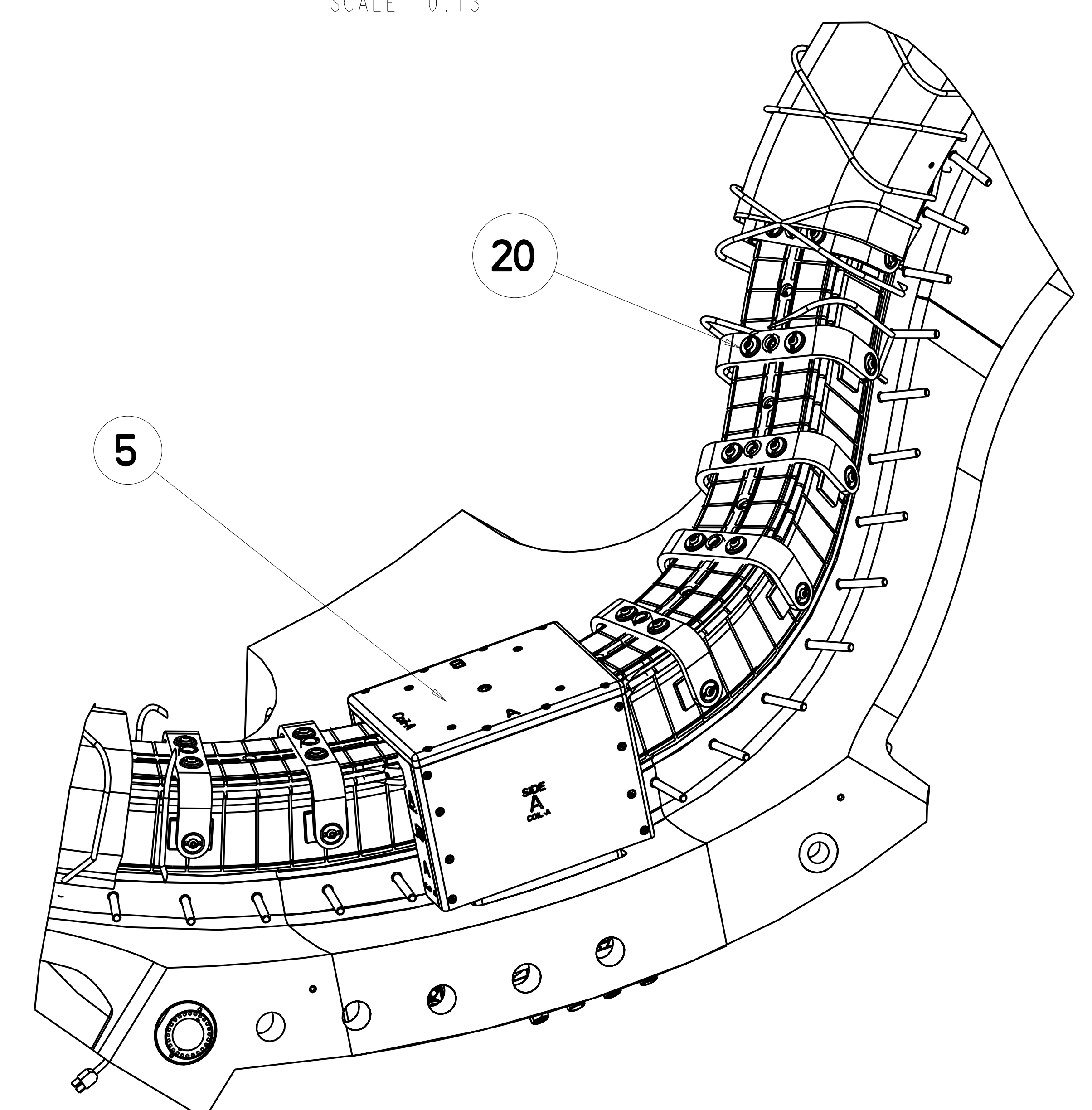
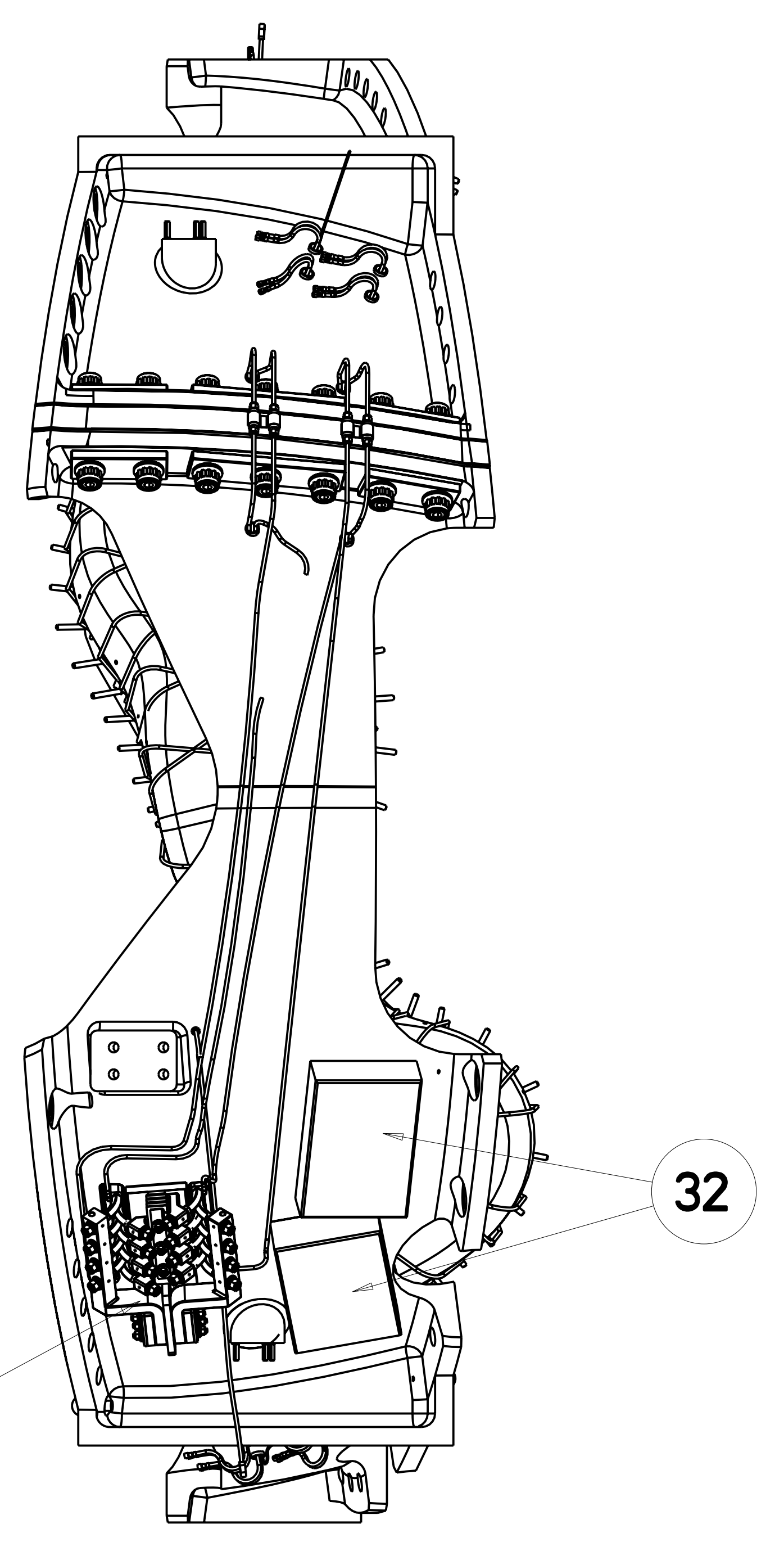


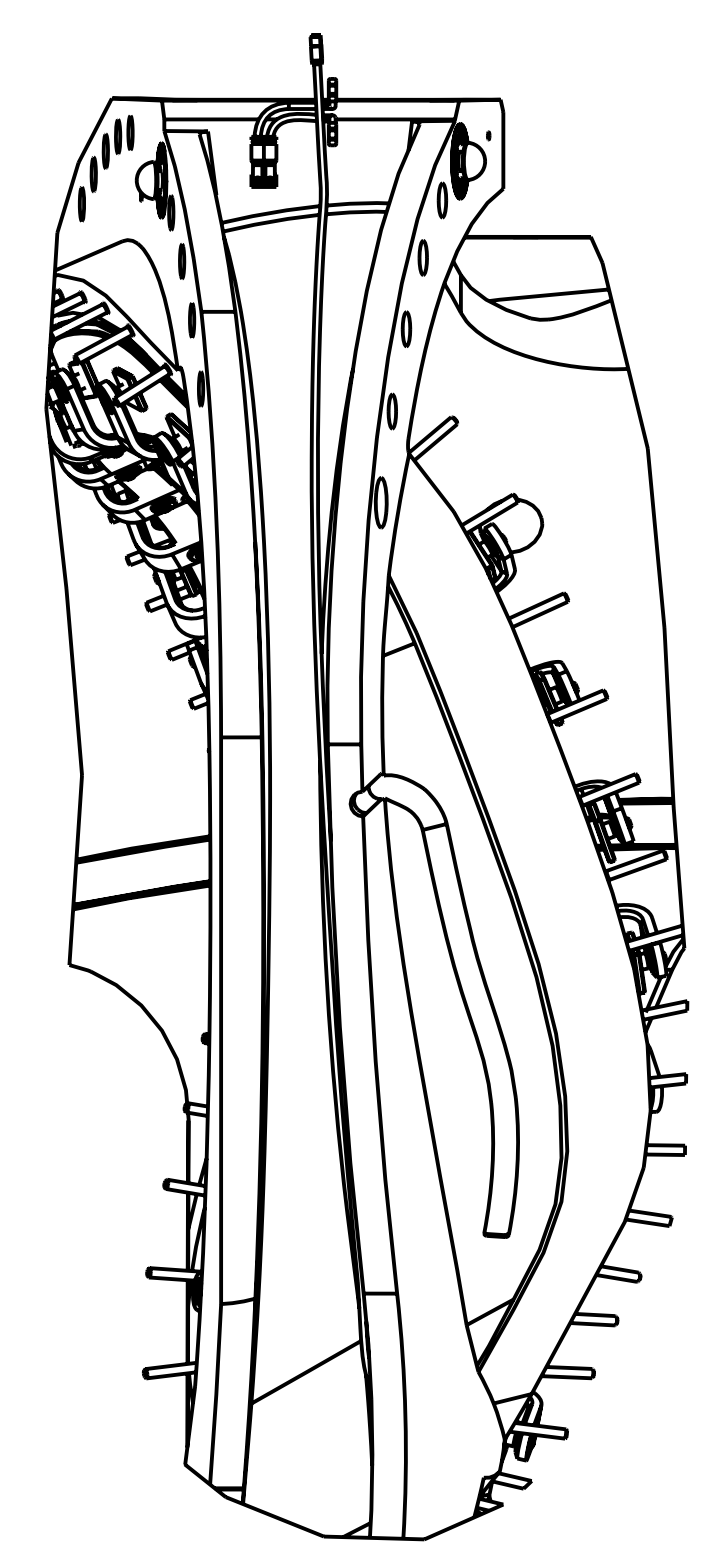
1  
SCALE 0.13



5  
SCALE 0.25



4



SCALE 0.130

- NOTES:
- DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.100-2000.
  - INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M
  - DIMENSIONS ARE IN INCHES
  - DIMENSIONS APPLY AT ROOM TEMPERATURE. OPERATING TEMP 80 K.
  - LEADS AREA SHALL BE COVERED OR SPRAYED WITH AN INSULATING MATERIAL TO PREVENT DEBRIS FROM CAUSING AN ELECTRICAL SHORT DURING OPERATION.
  - OPTIONAL BLANKET INSULATION ASSEMBLY, F/N 18, NOT SHOWN. SEE DRAWING SEI22-009 FOR INSTALLATION.
  - SEE LATEST REVISION OF PROCEDURE D-NCSX-MCF-001 FOR ADDITIONAL REQUIREMENTS.
  - WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF PPPL PROCEDURE NO. ENG-037. VISUAL WELD INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ACCEPTANCE CRITERIA OF AWS D1.6.
  - VENDOR INFORMATION: TRULY TUBULAR FITTING CORP  
PO BOX 1160  
MT VERNON, NY 10550  
914-664-8686 OR WWW.TRULYTUBULAR.COM
  - VENDOR INFORMATION: FISO FIBER OPTICS  
500 ST. JEAN BAPTISTE AVE SUITE 195  
QUEBEC QC, G2E 5R CANADA  
418-688-8065 OR WWW.FISO.COM
  - VENDOR INFORMATION: OMEGA ENGINEERING CORP  
ONE OMEGA DRIVE  
STAMFORD, CT 06907  
800-848-4286 OR WWW.OMEGA.COM
  - SOME PARTS IN THIS ASSEMBLY ARE GRAPHIC REPRESENTATIONS OF ACTUAL PARTS/ASSEMBLIES. PART IDENTIFICATION NUMBERS REFER TO ACTUAL PARTS. FOR FULL MODELED ASSEMBLY SEE SEI40-102.
  - TYPE "A" COIL: REMOVE NOTED STUDS AFTER CLAMP AND INSULATION BLANKETS ARE ASSEMBLED (POST VPI).

REV	QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
2		-34	WASHER	SS 316L		
4		-33	3/8 - 16UNC HEX NUT	SS 316L		
12		SEI42C-014	LINED INSULATING SLEEVE			33
2		SEI42C-015	3"x8"x12" FLUX LOOP BOX			32
10	AR	SEI42C-013	FISO FIBER OPTIC STRAIN SENSOR			31
2		SS-810-1-8	BLEED VALVE			30
11	2	TEMP-THERMOCOUPLER1	THERMO COUPLER			29
6		SE185I-170	BALL ALIGNMENT ASSEMBLY			28
13		SE141-204	FLANGE BUSHINGS			27
			TRULY TUBULAR FITTING	BRAZETYTE		26
	AR	SEI42C-011	TUBE CLAMP			25
2		SEI42A-025	POL BR CONNECTOR ASSEMBLY			24
2		90FF-4	TRULY TUBULAR 1/4 ELBOW	BRAZETYTE		23
9	2	10FF-4	TRULY TUBULAR 1/4 UNION	BRAZETYTE		22
6	AR	SEI22-009	WINDING FORM INSULATION ASSY			21
AR		SEI42A-010	CLAMP ASSEMBLY			20
AR		SEI42A-248	SIDE B COOLING TUBES			19
I		SEI42A-246-4	SIDE "B" CHILL PLATES (SIDE)			18
I		SEI42A-246-3	SIDE "B" UPPER CHILL PLATES (TOP)			17
AR		SEI42A-243	SIDE "B" GROUNDWRAP			16
I		SEI42A-241	SIDE "B" WINDING ASSEMBLY			15
I		SEI42A-244-4	SIDE "B" LOWER CLADDING (BASE)			14
I		SEI42A-244-3	SIDE "B" UPPER CLADDING (SEPTUM)			13
AR		SEI42A-258	SIDE A COOLING TUBES			12
I		SEI42A-256-4	SIDE A LOWER CHILL PLATES (SIDE)			11
I		SEI42A-256-3	SIDE A UPPER CHILL PLATES (TOP)			10
AR		SEI42A-253	SIDE-A WP GROUNDWRAP			9
I		SEI42A-251	SIDE "A" WINDINGS ASSEMBLY			8
I		SEI42A-254-4	SIDE "A" LOWER CLADDING (BASE)			7
I		SEI42A-254-3	SIDE "A" UPPER CLADDING (SEPTUM)			6
I		SEI42A-080	TYPE "A" LEADS ASSEMBLY			5
I		SEI42C-050	TYPE "A" TERMINAL ASSEMBLY			4
		SE141-121	STUDS (SEE SHT 2)			3
I		SE141-101	MOD COIL WINDING FORM ASSEMBLY TYPE-A			2
I		-1	MCWF-TYPE A ASM			1

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	BY	DATE	CHK	DEPT	DATE	PE	REQ	DATE	ORNL	DOE	DATE	SCALE NOTED	DESIGN	DATE	UT-BATTELLE	PROJECT NAME	VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
													25	X-10	5700	3	1	2	1	S	U				
																		SEI40-101							

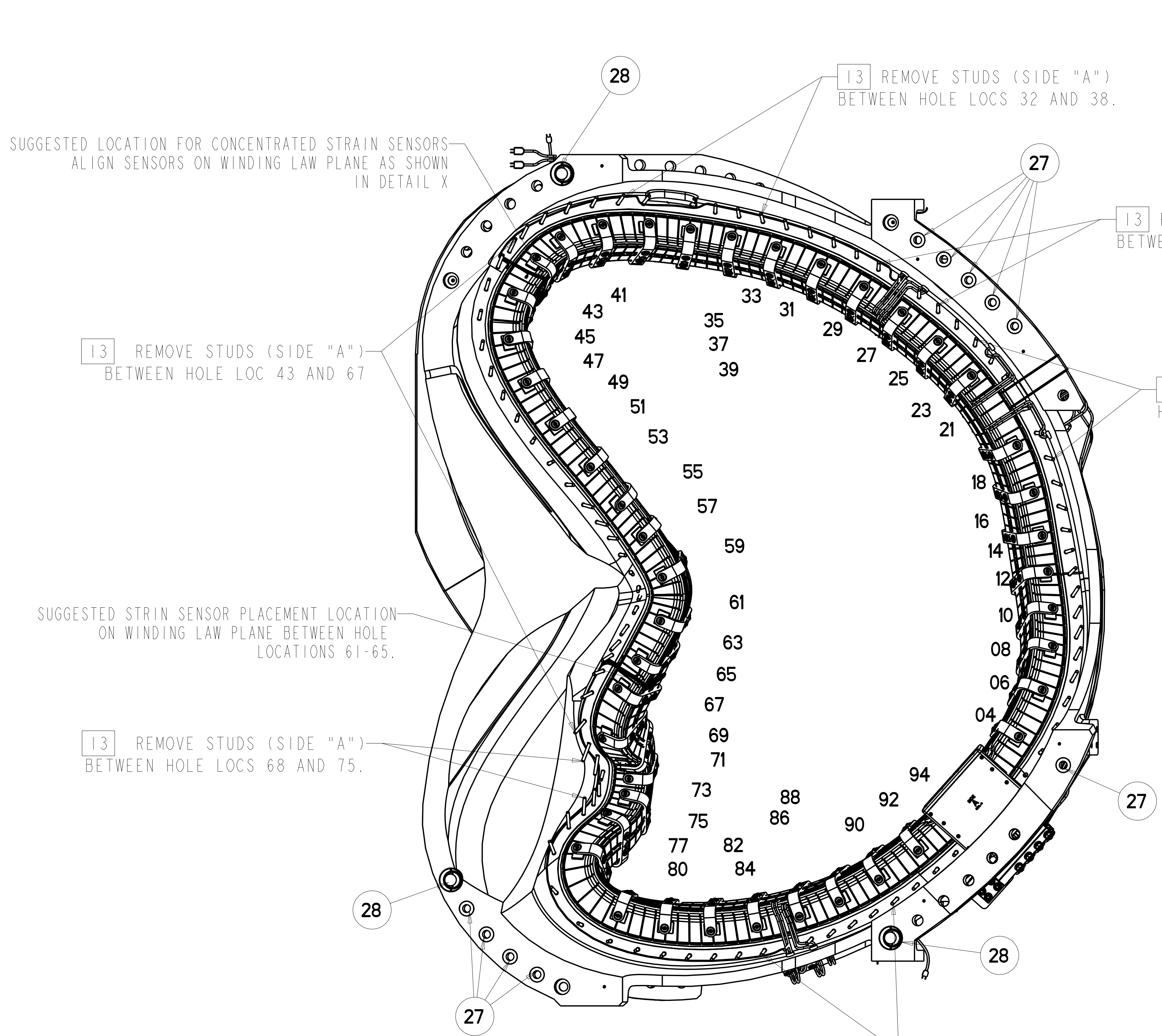
SCALE NOTED: TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS: XX DECIMALS ±.01, XXX DECIMALS ±.005, ANGLES: ±0.15°, BREAK SHARP EDGES OF MAX FINISH: UNLESS OTHERWISE SPECIFIED

DESIGN: D WILLIAMSON, G LOVETT, M COLE

UT-BATTELLE NATIONAL COMPACT STELLARATOR EXPERIMENT

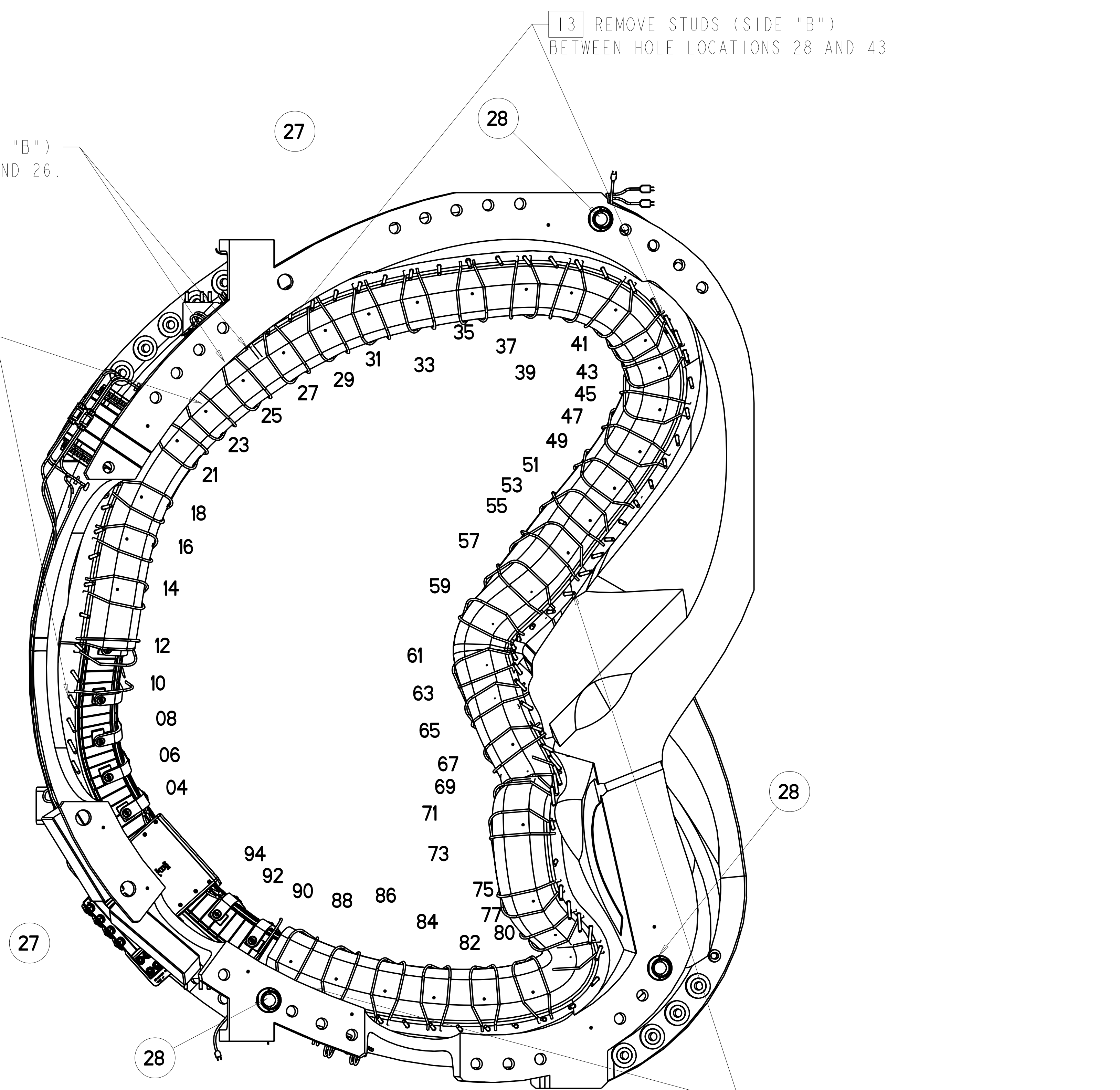
MCWF TYPE "A" FULL COIL ASSEMBLY

REVISIONS: REV 25, WIP



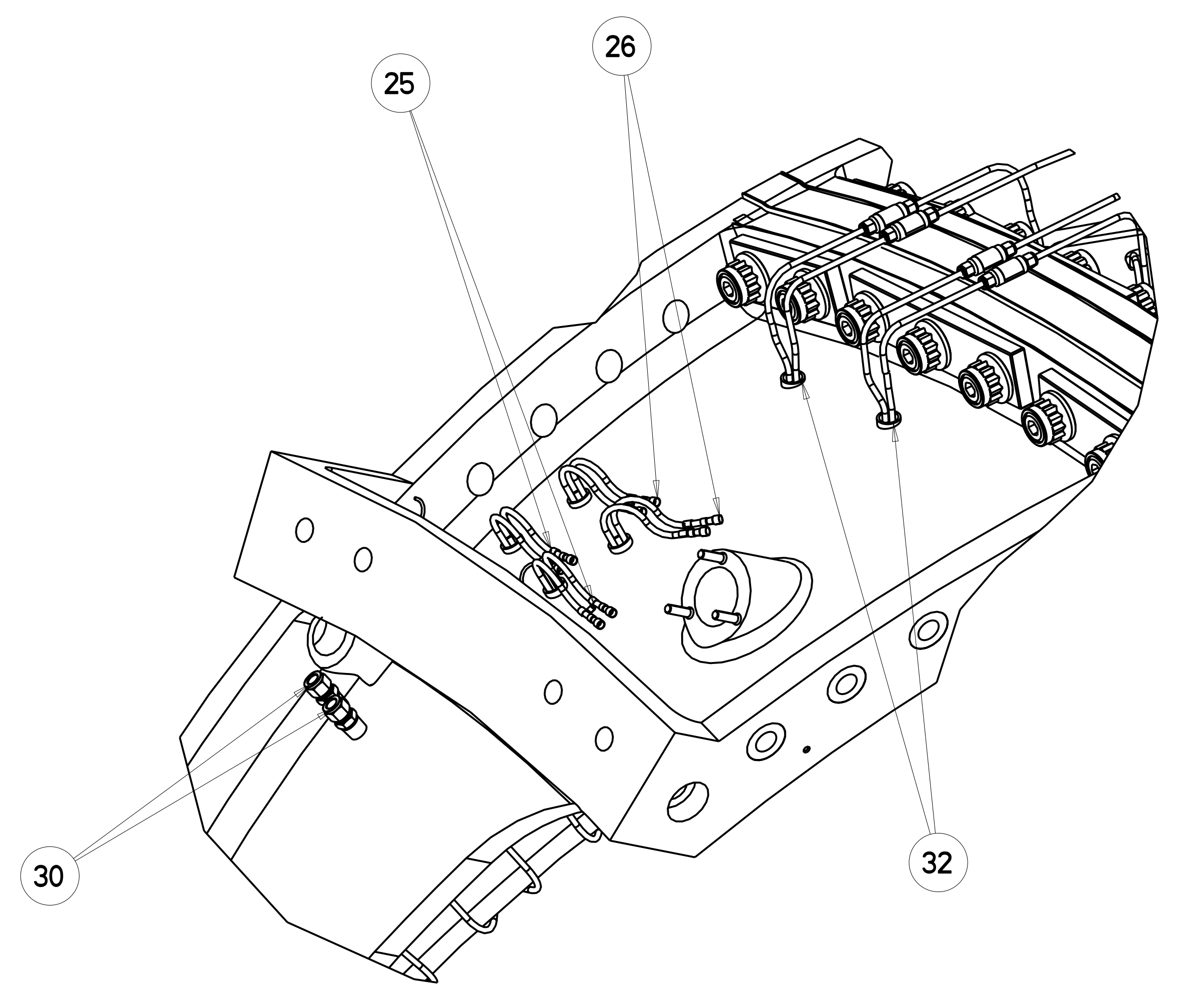
SIDE "A" VIEW  
SCALE 0.125

CLAMP / HOLE NUMBER LOCATIONS

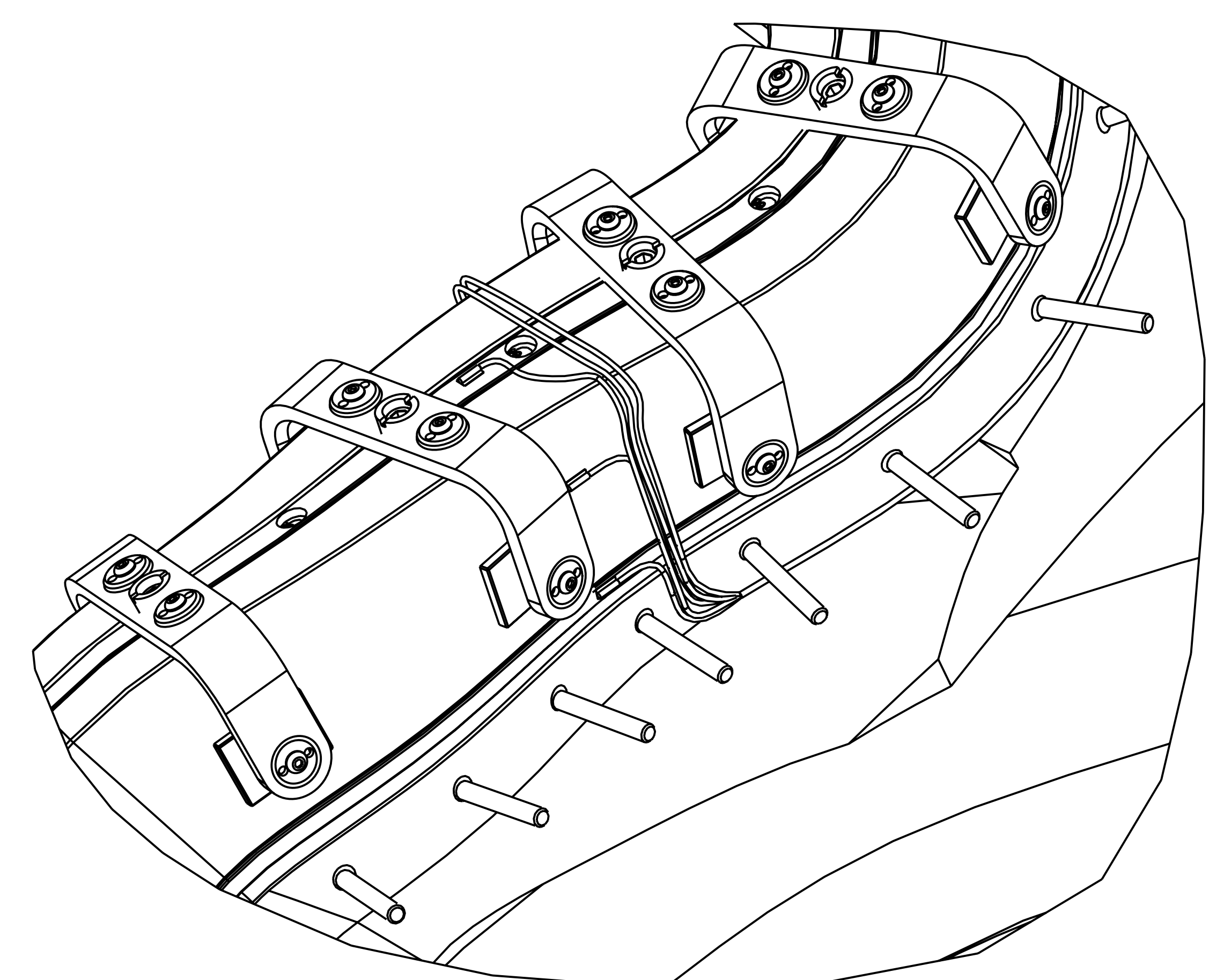
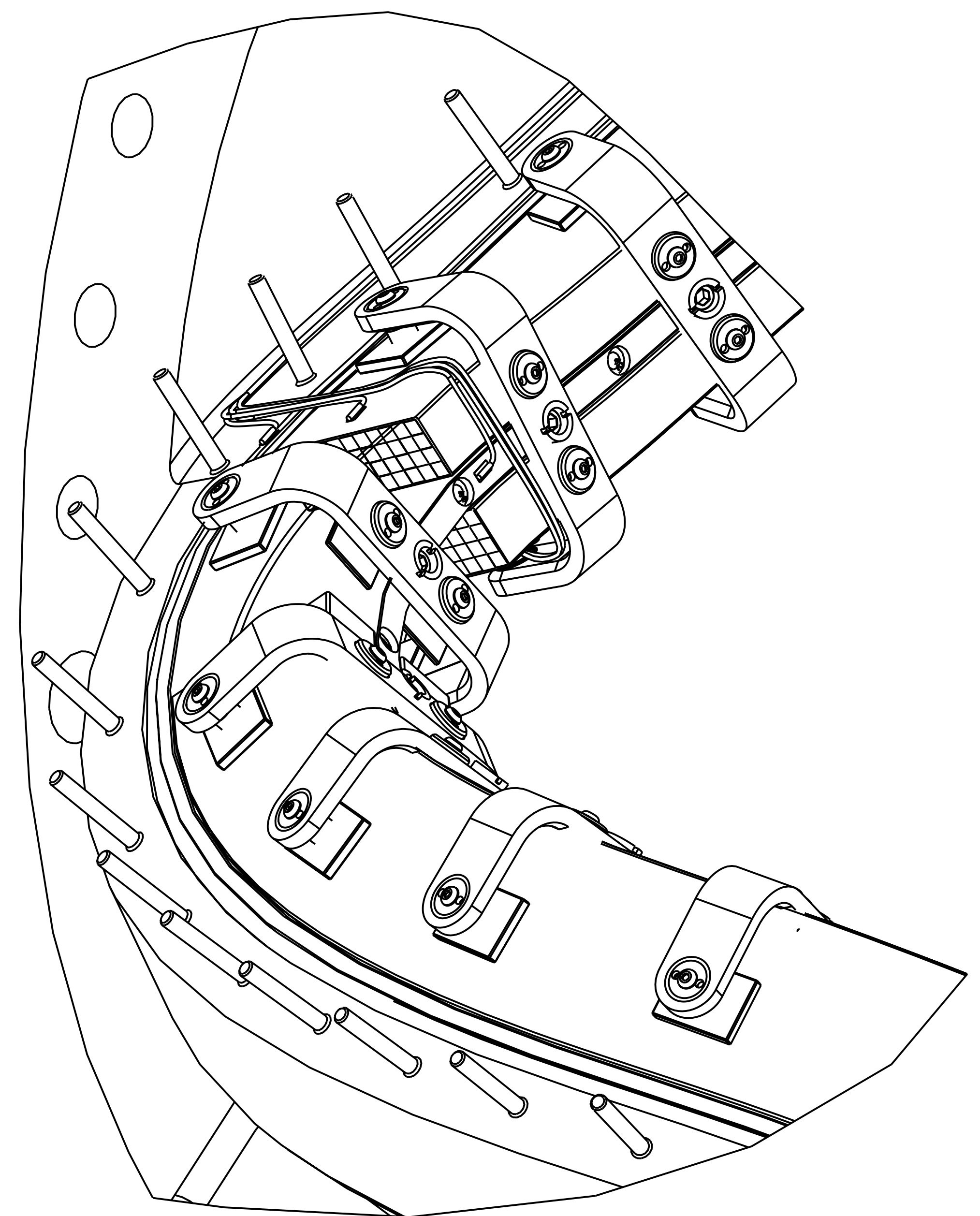


SIDE "B" VIEW  
SCALE 0.125

CLAMP / HOLE NUMBER LOCATIONS



SCALE 0.250



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			
MCWF TYPE "A" FULL COIL ASSEMBLY			
VERSION NO.	PLANT	BLDG	FL
48	X-10	5700	3
REV	DATE	BY	CHKD
0			
RELEASE LEVEL		SEI40-101	
WIP		REV 0	