REV	ZONE	DESCRIPTION OF CHANGE

									81
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									52
					RER-1	RICH-ECAL RADIATOR			51
					TRR-1	TRACKER RADIATOR			50
					BOX-C	TRD GAS SYSTEM BOX-C			49
					BOX-S	TRD GAS SYSTEM BOX-S			48
					TTCS-2	TRACKER THERMAL CONTROL SYSTEM BOX ASSEMBLY			47
					TTCS-1	TRACKER THERMAL CONTROL SYSTEM BOX ASSEMBLY			46
					WHB-1	WARM HELIUM BOX			45
					UPS-1	UNITERRUPTIBLE POWER SOURCE BOX ASSEMBLY			44
					CAB-1	CRYOMAGENT AVIONICS BOX			43
					CRA-2	CRATES RADIATORS ASSEMBLY			42
					CRA-1	CRATES RADIATORS ASSEMBLY			41
					ECAL-1	ELECTRONIC CALORIMETER ASSEMBLY			40
					RICH-1	RING IMAGING CHERENCOV COUNTER ASSEMBLY			39

					LTOF-1	LOWER TIME OF FLIGHT ASSEMBLY			38
					ACC-1	ANTICOINCIDENCE COUNTER			37
					TR-1	TRACKER ASSEMBLY			36
					UTOF-1	UPPER TIME OF FLIGHT ASSEMBLY			35
					TRD-1	TRANSITION RADIATION DETECTOR			34
					ZRA-1	ZENITH RADIATOR ASSEMBLY			33
									32
					-001	UMBILICAL MECHANISM ASSEMBLY			31
					-001	FLIGHT RELEASEABLE GRAPPLE FIXTURE			30
					-001	POWER VIDEO GRAPPLE FIXTURE			29
					-001	PDA HARNESS CONNECTOR			28
					-001	ROEU PDA			27
									26
					SEG33106860-301	SIDE MOUNTED PASSIVE WIF ASSY			25
					SEG33106347-813	HANDRAIL ASSEMBLY, TOP MOUNTED - ISS (6.15")			24
					SEG33106347-811	HANDRAIL ASSEMBLY, TOP MOUNTED - ISS (15.44"			23
					SEG33106347-809	HANDRAIL ASSEMBLY, TOP MOUNTED - ISS (8.63")			22
					SEG39136119-301	PVGF DUMMEY CONNECTOR PANEL			21
					SEG39136118-301	ROEU CONNECTOR PANEL BRACKET			20
					SEG39136117-301	ROEU CONNECTOR PANEL (PANEL A)			19
					SEG39136085-301	EVA CONNECTOR PANEL			18
					SDG39135878-307	HANDRAIL BRACKETS			17
					SDG39135878-305	HANDRAIL BRACKETS			16
					SDG39135878-303	HANDRAIL BRACKETS			15
					SDG39135878-301	HANDRAIL BRACKETS			14
					SDG39135867-001	SCUFF PLATE			13
					SEG39135862-301	ROEU BRACKET ASSEMBLY			12
					SDG39135861-301	FRGF BRACKET			11
					SDG39135860-301	PVGF BRACKET			10
					SDG39135859-003	UMA SHIMS			9
					SDG39135859-001	UMA SHIMS			8
					SDG39135858-001	UMA BRACKET			7
									6
					SEG39135812-301	PAYLOAD ATTACH SYSTEM			5
					SEG39135768-301	KEEL ASSEMBLY			4
					SEG39135758-301	LOWER USS-02			3
					SEG39135726-301	UPPER USS-02			2
					SEG39135724-301	UNIQUE SUPPORT STRUCTURE - 02			1
X					-309	PAYLOAD PAS ASSEMBLY			
	X				-307	PAYLOAD KEEL ASSEMBLY			
		X			-305	LOWER PAYLOAD ASSEMBLY			
			X		-303	UPPER PAYLOAD ASSEMBLY			
				X	-301	AMS-02 PAYLOAD ASSEMBLY			
QTY					PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATION	ITEM

7 ALL PART NUMBERS SHALL BE MARKED BY CONTAINER MARKING IN ACCORDANCE WITH NASA/JSC PRC-9002.

6 CLEAN TO LEVEL GC PER NASA/JSC PRC-5001.

5 ALODINE CONVERSION COAT (CLASS 3) PER NASA/JSC PRC-5005.

4 BREAK ALL EDGES AND CORNERS .04-.06.

3 ALL DIMENSIONS ARE IN INCHES.

2 ALL FABRICATION WILL CONFORM TO NASA/JSC DWG SKZ36103755D JSC FABRICATION TOLERANCES AND PRACTICE STANDARDS.

1 INTERPRET DRAWING PER NASA/JSC JPG8500.4, ENGINEERING DRAWING SYSTEM MANUAL.

NOTES: UNLESS OTHERWISE SPECIFIED

1 ALL PART NUMBERS SHALL BE MARKED BY RUBBER STAMPING USING 73X BLACK INK IN ACCORDANCE WITH NASA/JSC PRC-9002. LOCATE APPROXIMATELY WHERE SHOWN.

FLAG NOTES:

DIMENSIONAL TOLERANCE UNLESS NOTED OTHERWISE
.0 ± .1 .000 ± .005
.00 ± .02 ANGULAR ± .5°

SURFACE FINISH IN MICROINCHES RMS UNLESS NOTED OTHERWISE ✓

FRACTURE CRITICAL ☐ YES ☒ NO

NEXT ASSY N/A

☒ FLT HDWR ☐ APPLICABLE GSE

☐ OTHER (SPECIFY) _____

SIGNATURES		DATE
DR	R HAROLD	03-04-10
ENG	R HAROLD	03-04-10
CH	H MILLER	
APP	T. APPROVER	99/99/99
QE	T. QE	99/99/99
MATL	T. MATERIALS	99/99/99
STRESS	T. STRESS	99/99/99
AUTH	T. AUTHORIZER	99/99/99
	TEST APP	99/99/99

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

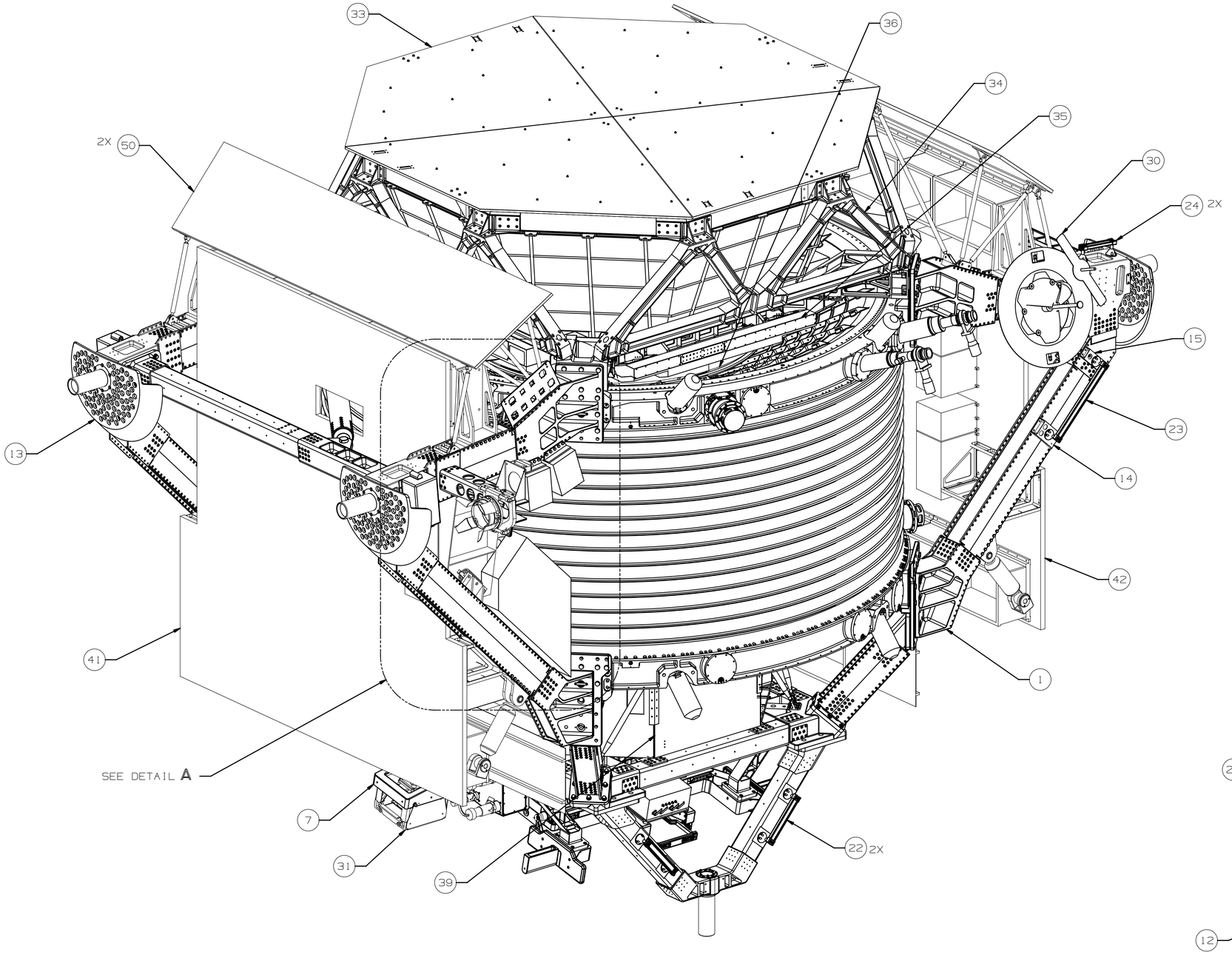
AMS-02 PAYLOAD ASSEMBLY

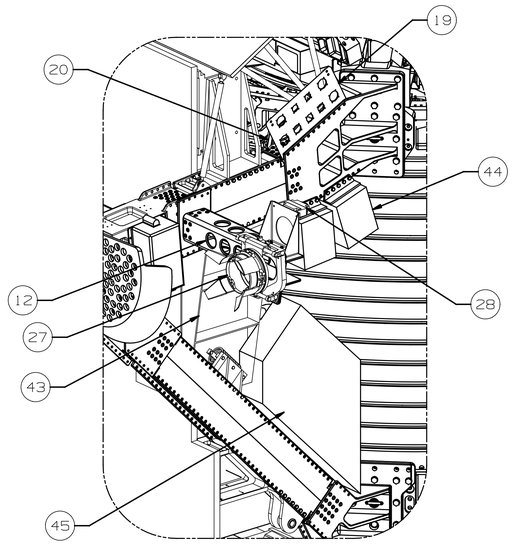
PROJECT ALPHA MAGNETIC SPECTROMETER (AMS)-02

SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST

SCALE 1/8 ORG SF3 SHEET 1 OF 15

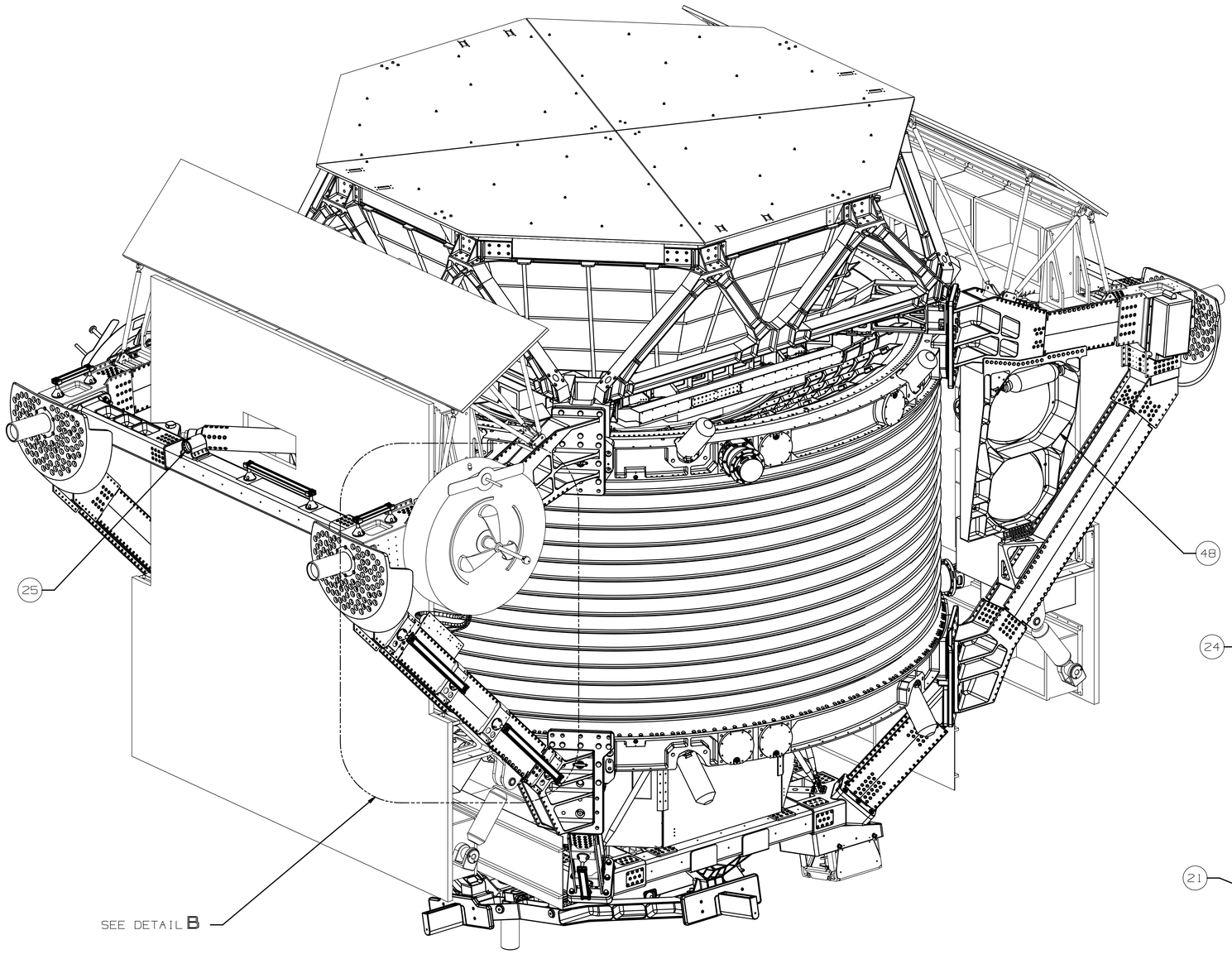
STATUS: Check for DCNs against the drawing.

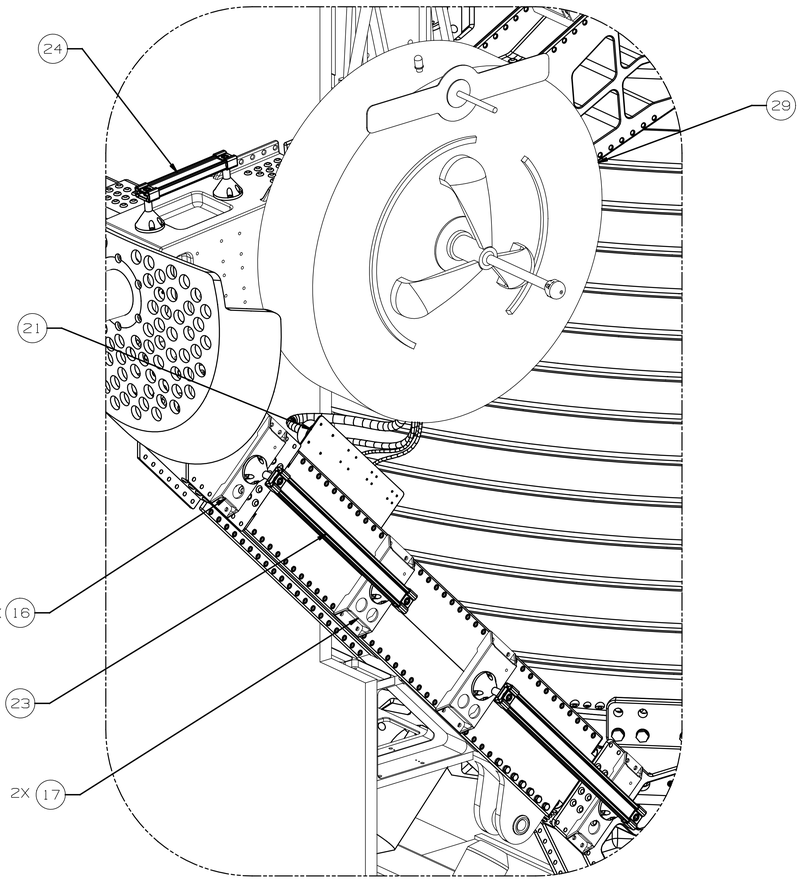




DETAIL A

SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE 1/1	ORG SF3	SHEET 2 OF 15	

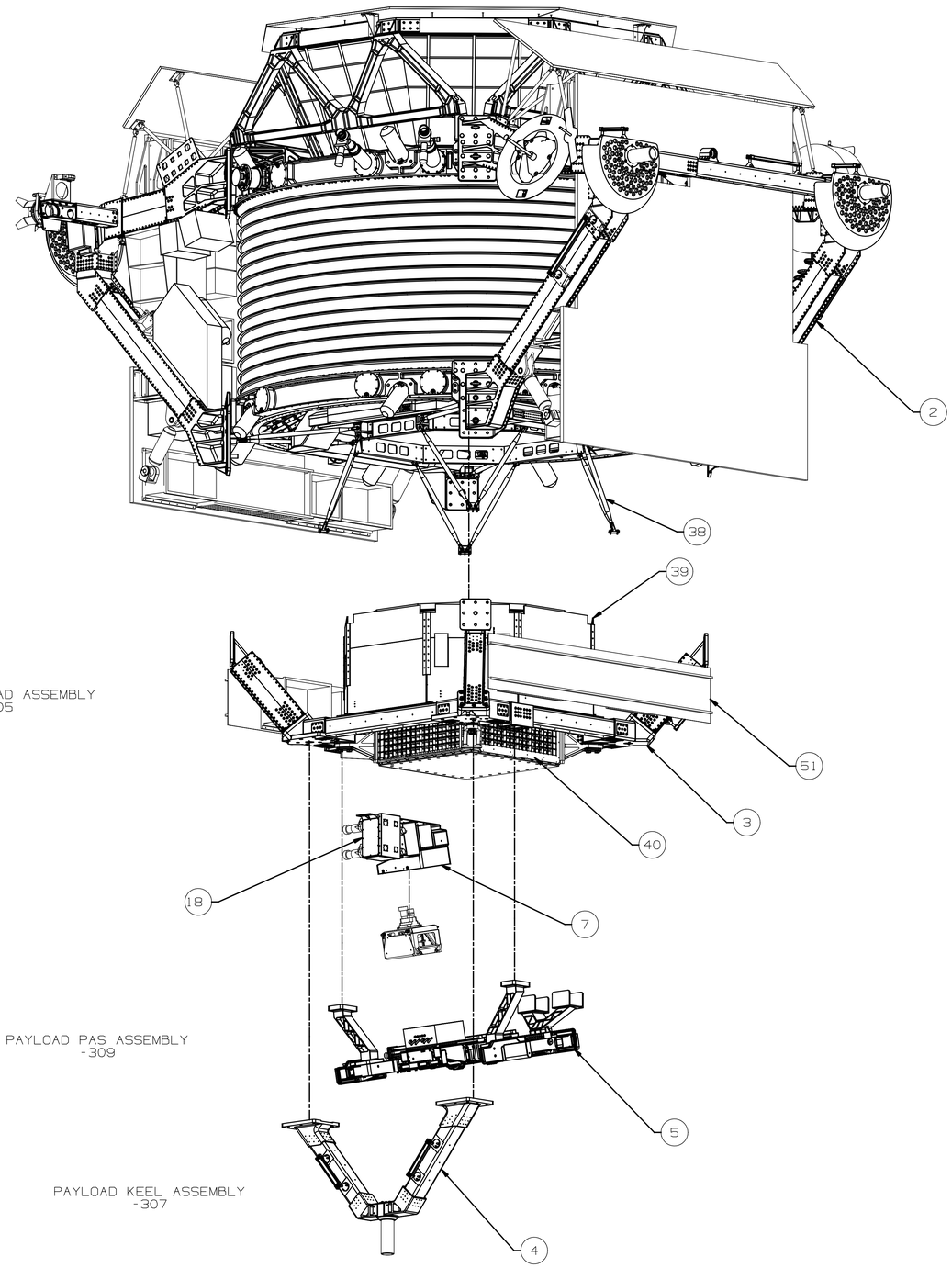




DETAIL B
SCALE 1/4

SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE 1/8	ORG SF3	SHEET 3 OF 15	

UPPER PAYLOAD ASSEMBLY
-303

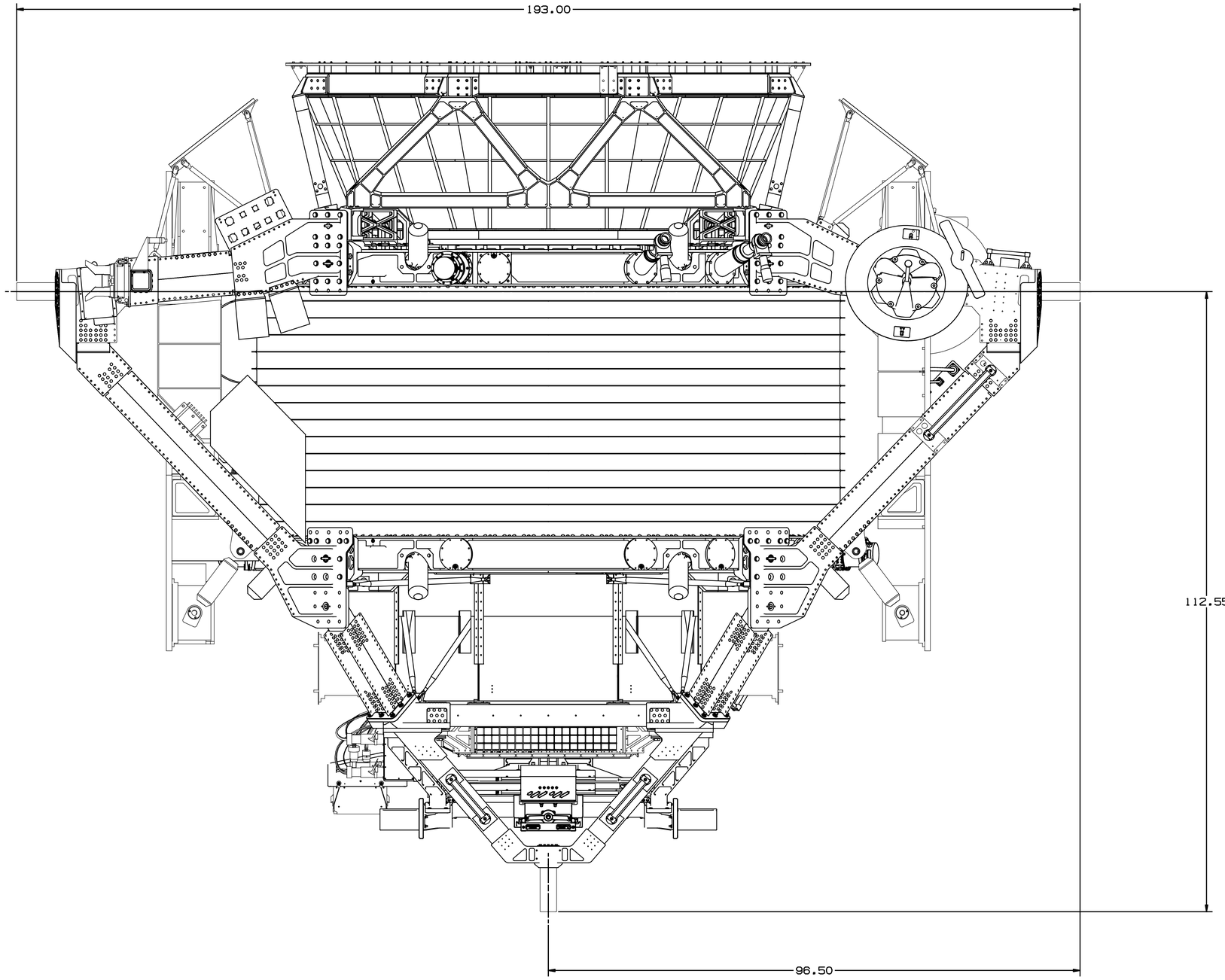


LOWER PAYLOAD ASSEMBLY
-305

PAYLOAD PAS ASSEMBLY
-309

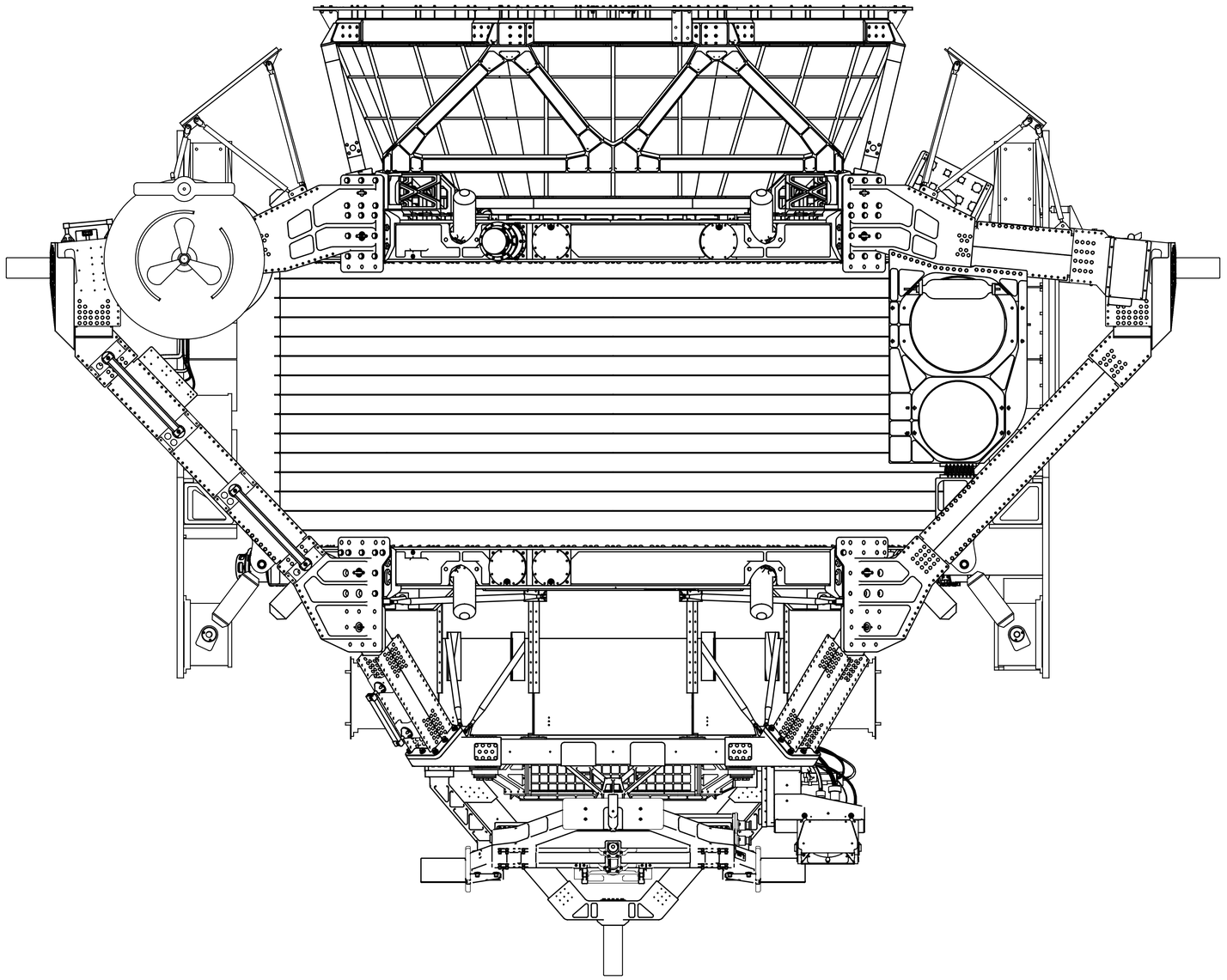
PAYLOAD KEEL ASSEMBLY
-307

SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE NONE	ORG SM2	SHEET 4 OF 15	



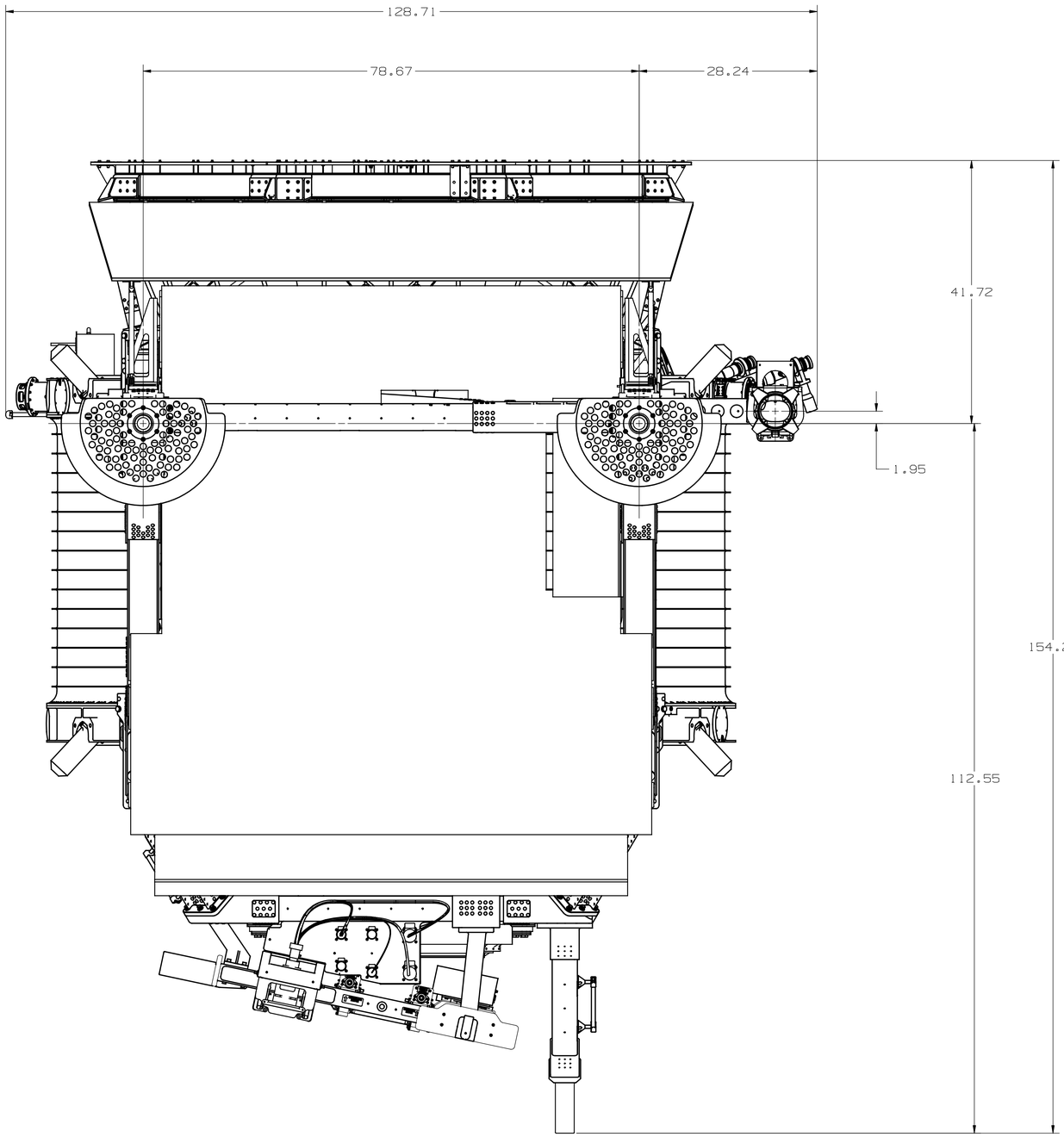
FRONT VIEW

SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE 1/8	ORG SF3	SHEET 5 OF 15	

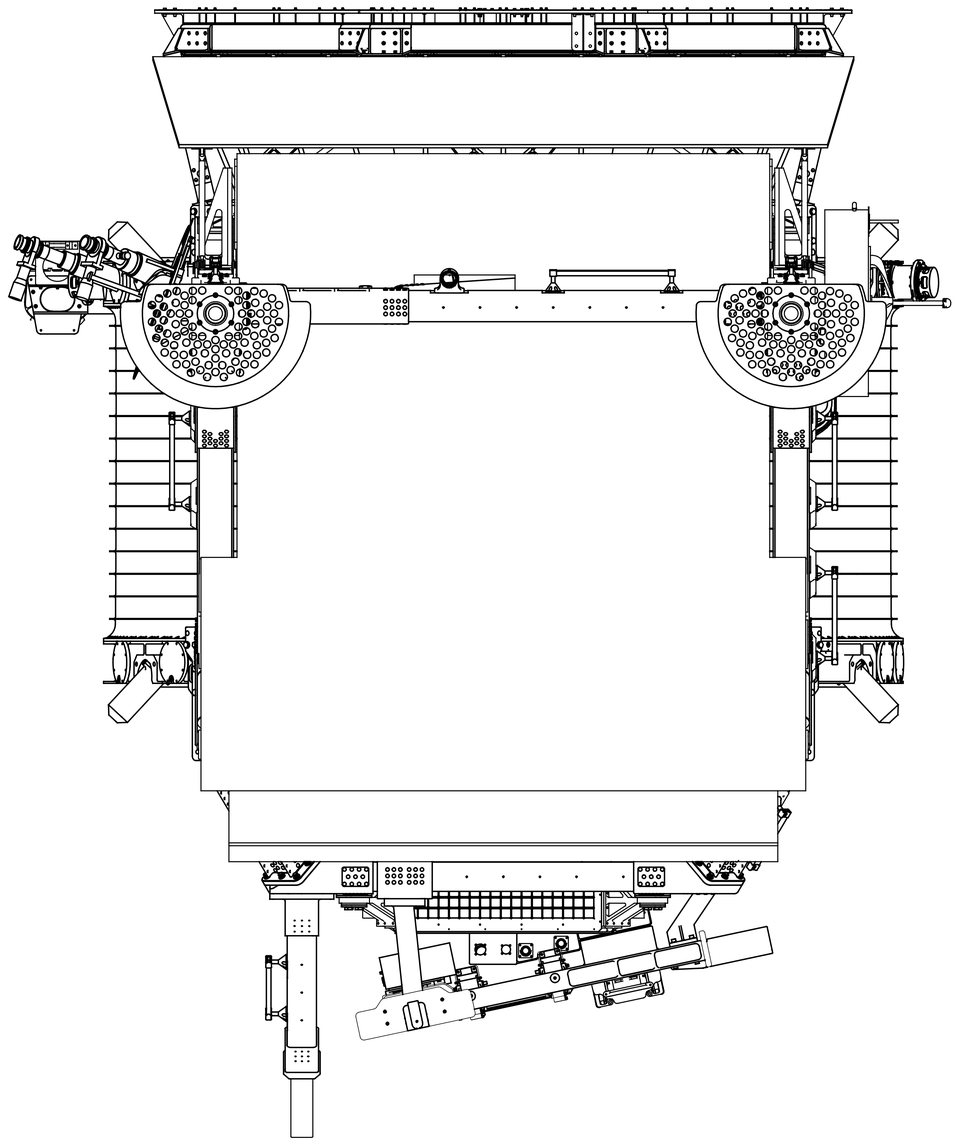


BACK VIEW

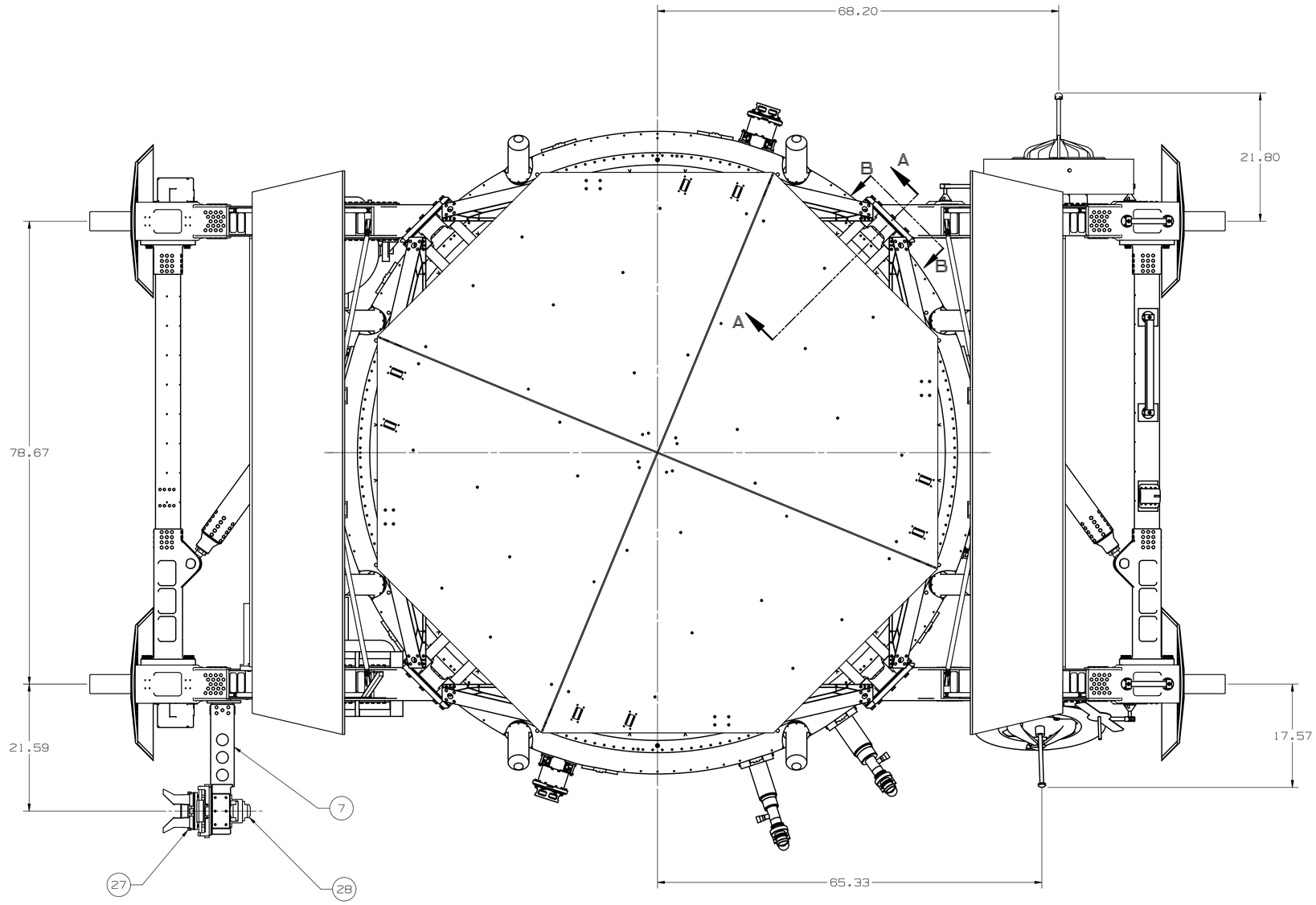
SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE 1/8	ORG SF3	SHEET 6 OF 15	



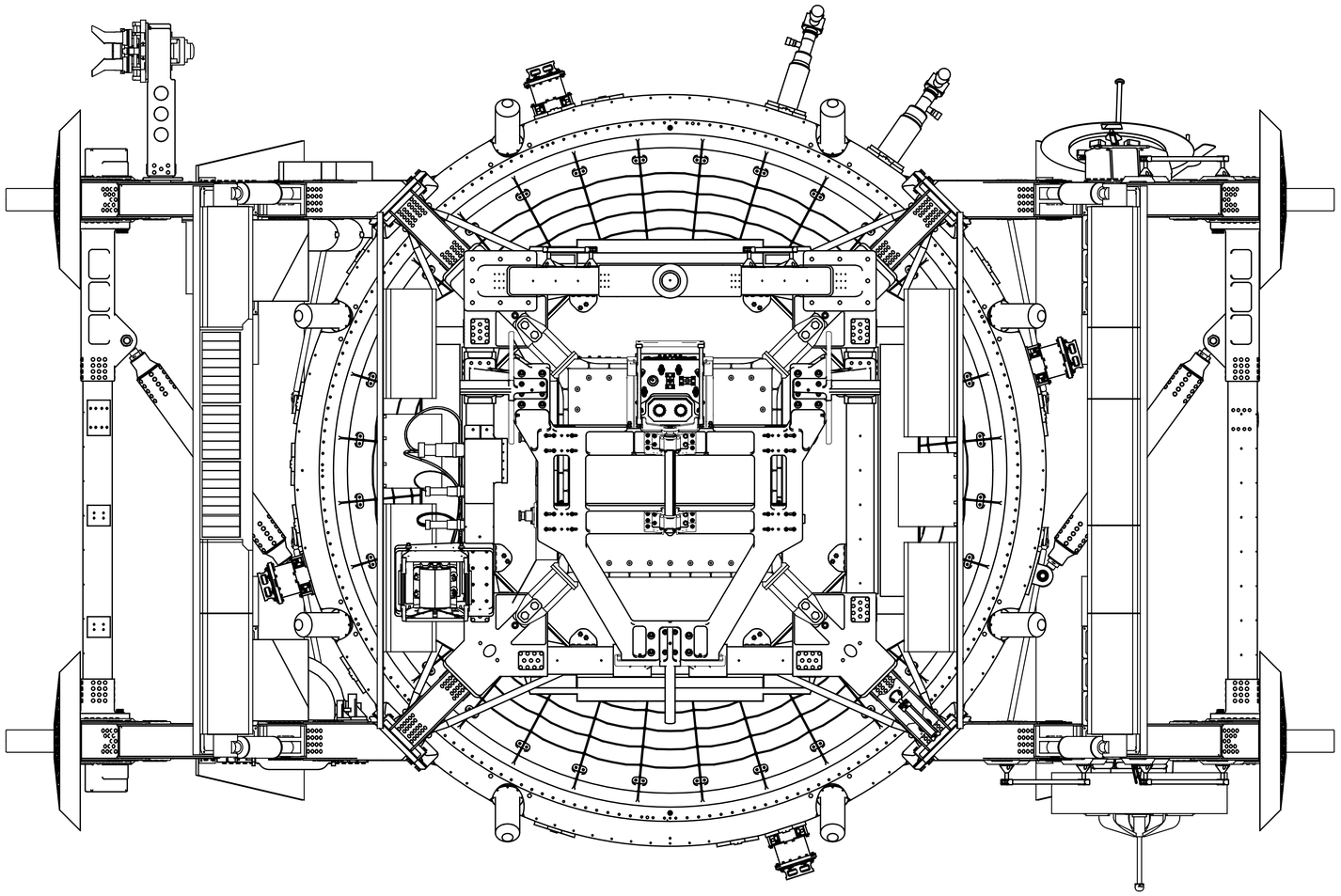
SIZE	CODE ID NO	DWG NO	REV
E	21356	SE639135720	TST
SCALE 1/8	ORG SF3	SHEET 7 OF 15	



SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE 1/8	ORG SF3	SHEET 8 OF 15	

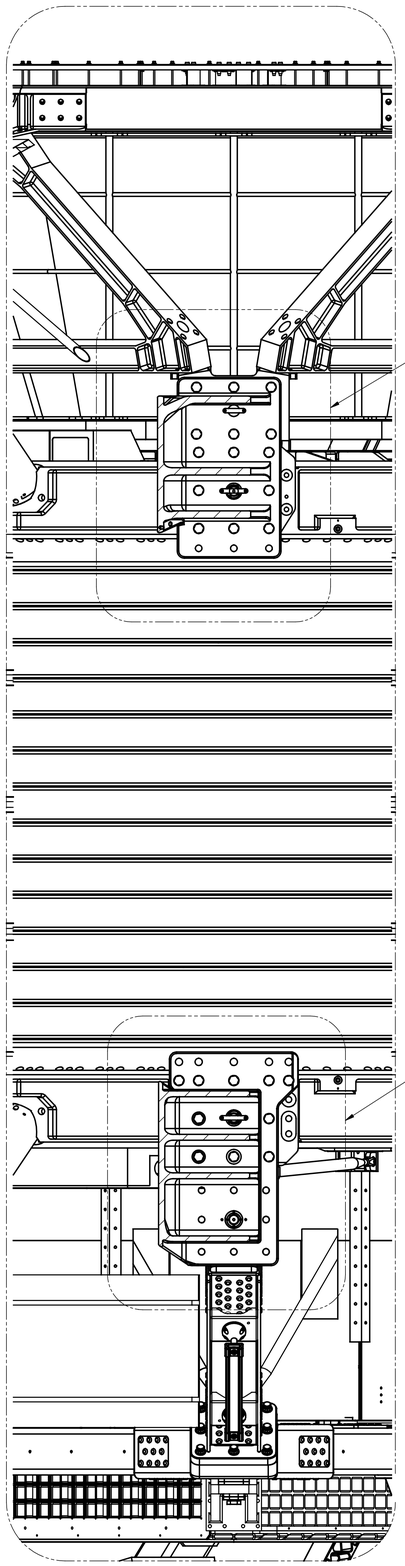


SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE 1/8	ORG SF3	SHEET 9 OF 15	

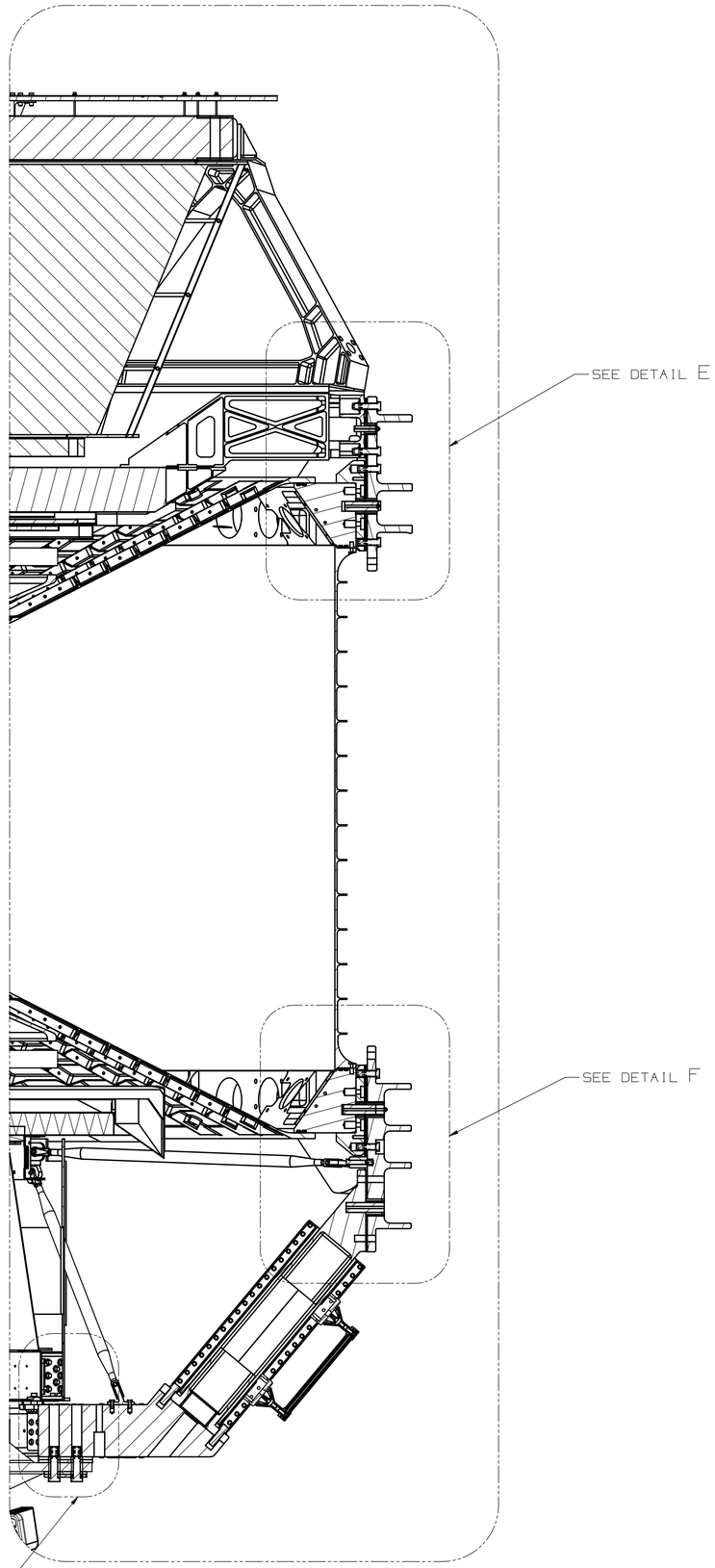


BOTTOM VIEW

SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE 1/8	ORG SF3	SHEET 10 OF 15	

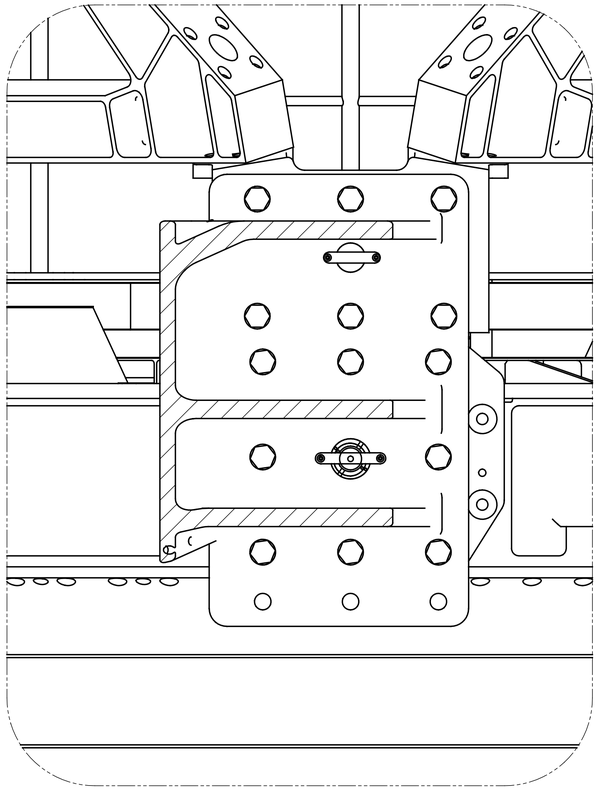


SECTION B-B
ROTATED 135° CW
SCALE: NONE

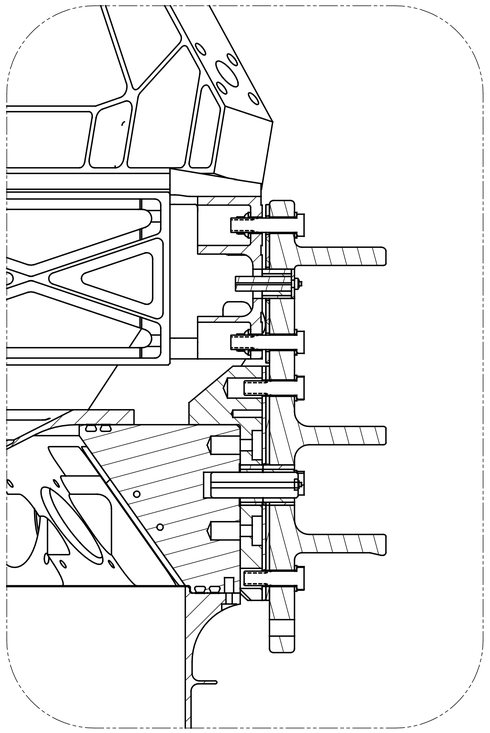


SECTION **A-A**
(ROTATED 45° CW)
SCALE: NONE

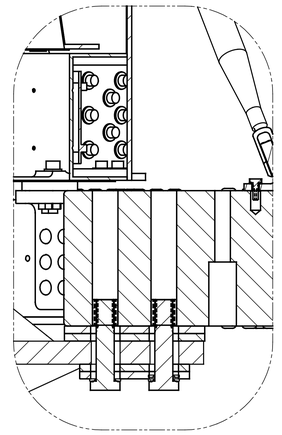
SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE 1/8	ORG SF3	SHEET 11 OF 15	



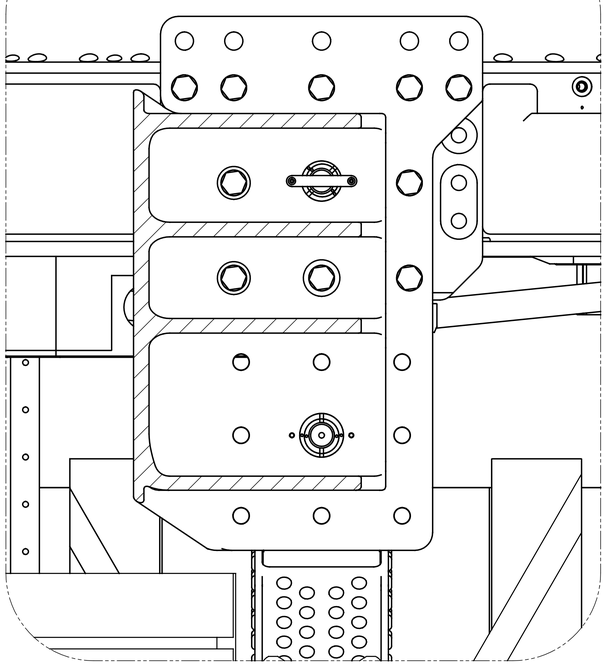
DETAIL C
SCALE 1/2



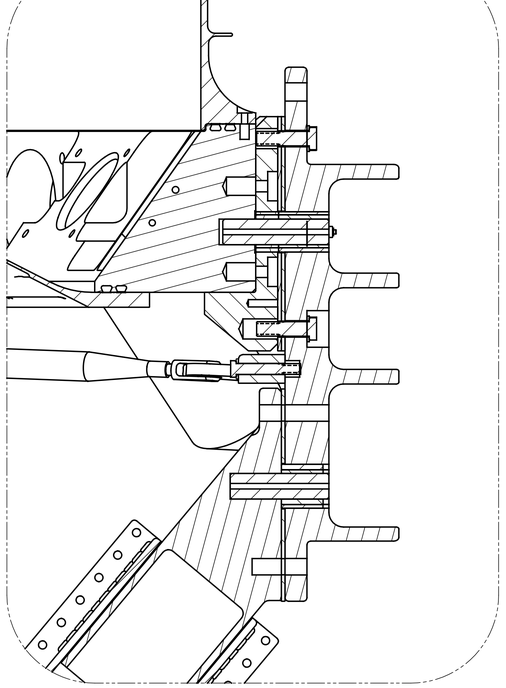
DETAIL E
SCALE 1/2



DETAIL G
SCALE 1/2

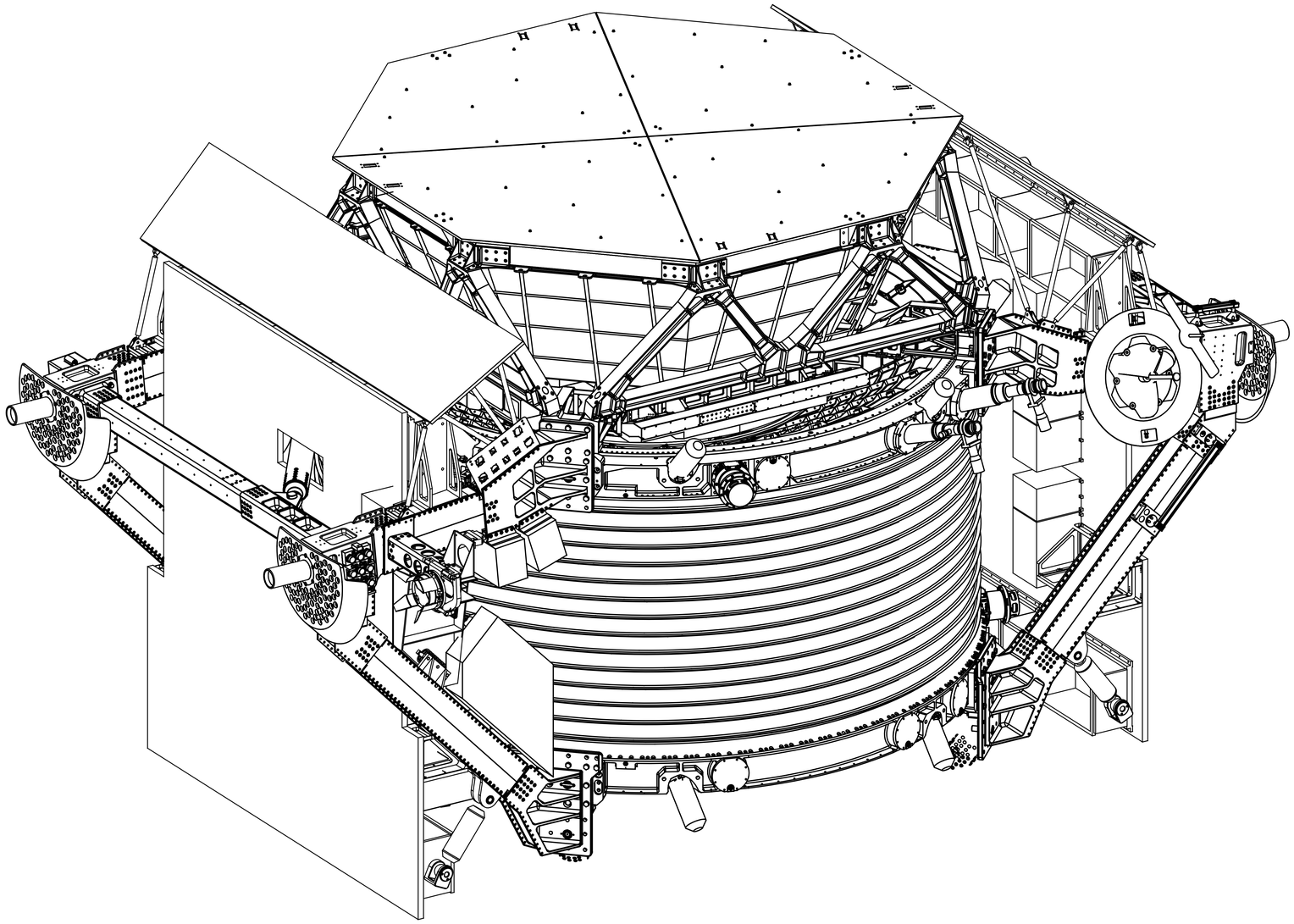


DETAIL D
SCALE 1/2

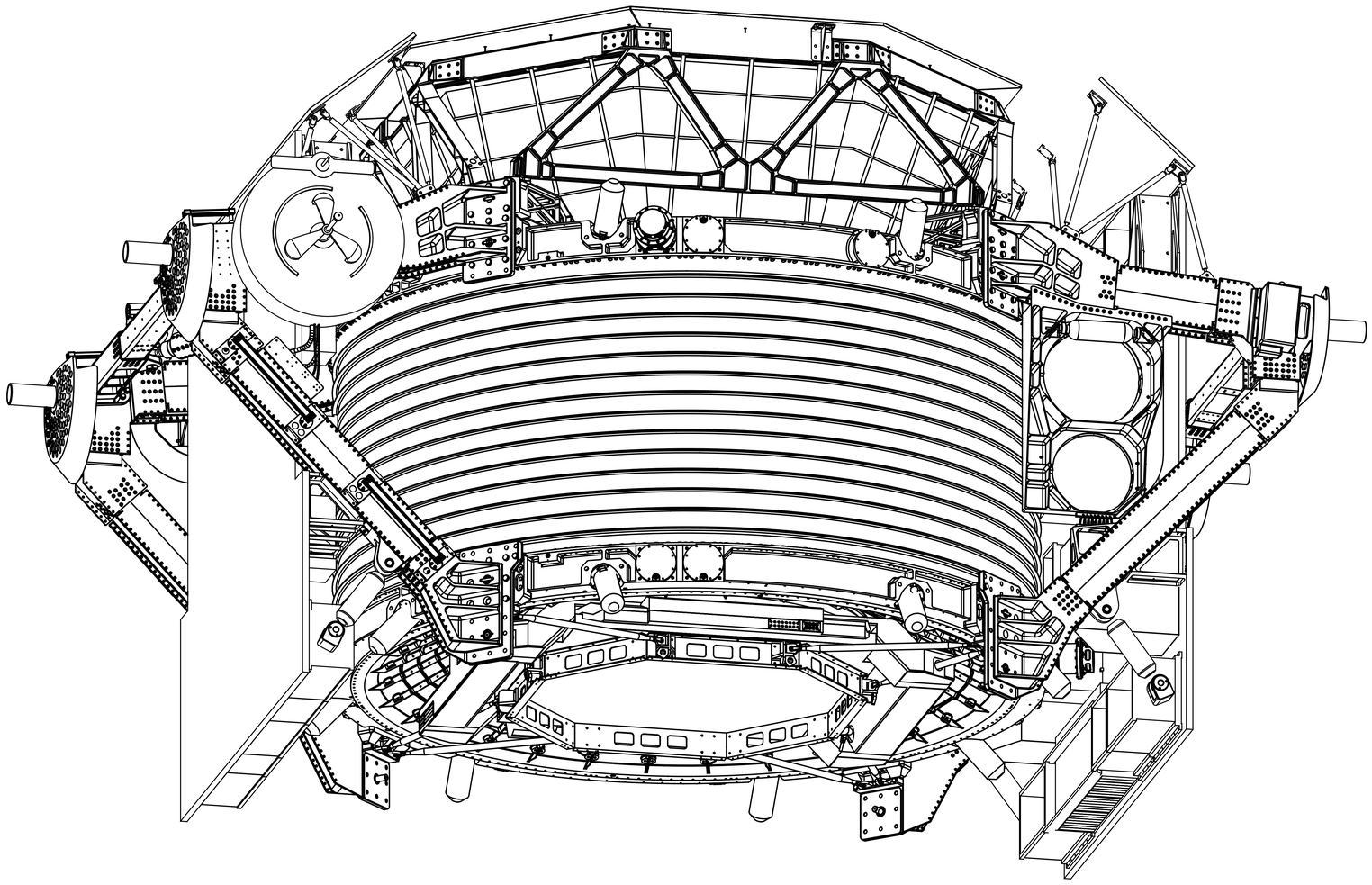


DETAIL F
SCALE 1/2

SIZE	CODE ID NO	DWG NO	REV
E	21356	SE639135720	TST
SCALE 1/8	ORG SM2	SHEET 12 OF 15	



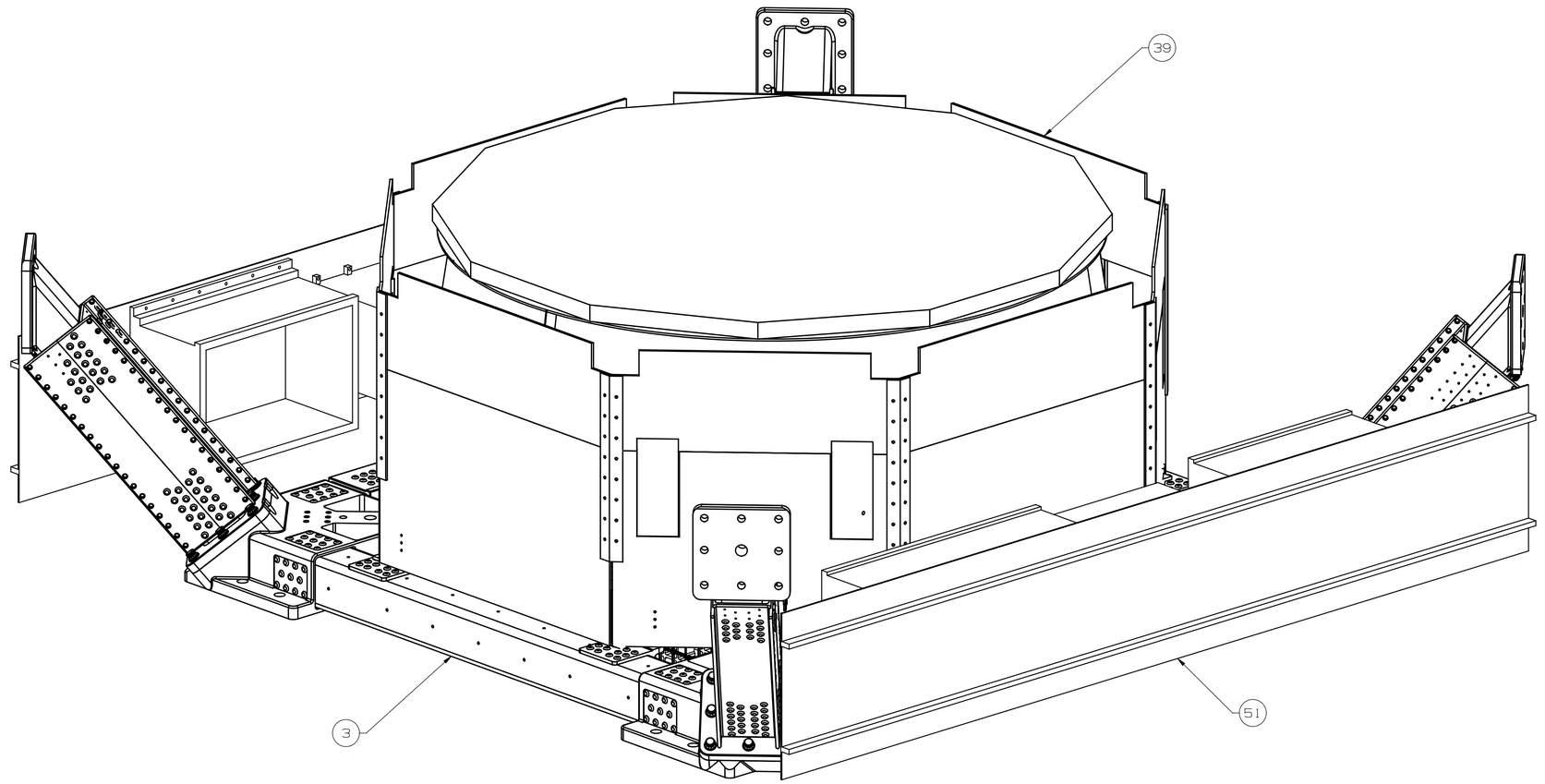
SIZE	CODE ID NO	DWG NO	REV
E	21356	SE639135720	TST
SCALE 1/8	ORG SM2	SHEET 13 OF 15	



-303

UPPER PAYLOAD ASSY

SIZE	CODE ID NO	DWG NO	REV
E	21356	SEG39135720	TST
SCALE NONE	ORG SM2	SHEET 14 OF 15	



-305

LOWER PAYLOAD ASSEMBLY
SCALE = 1/4

SIZE	CODE ID NO	DWG NO	REV
E	21356	SE639135720	TST
SCALE 1/8	ORG SM2	SHEET 15 OF 15	