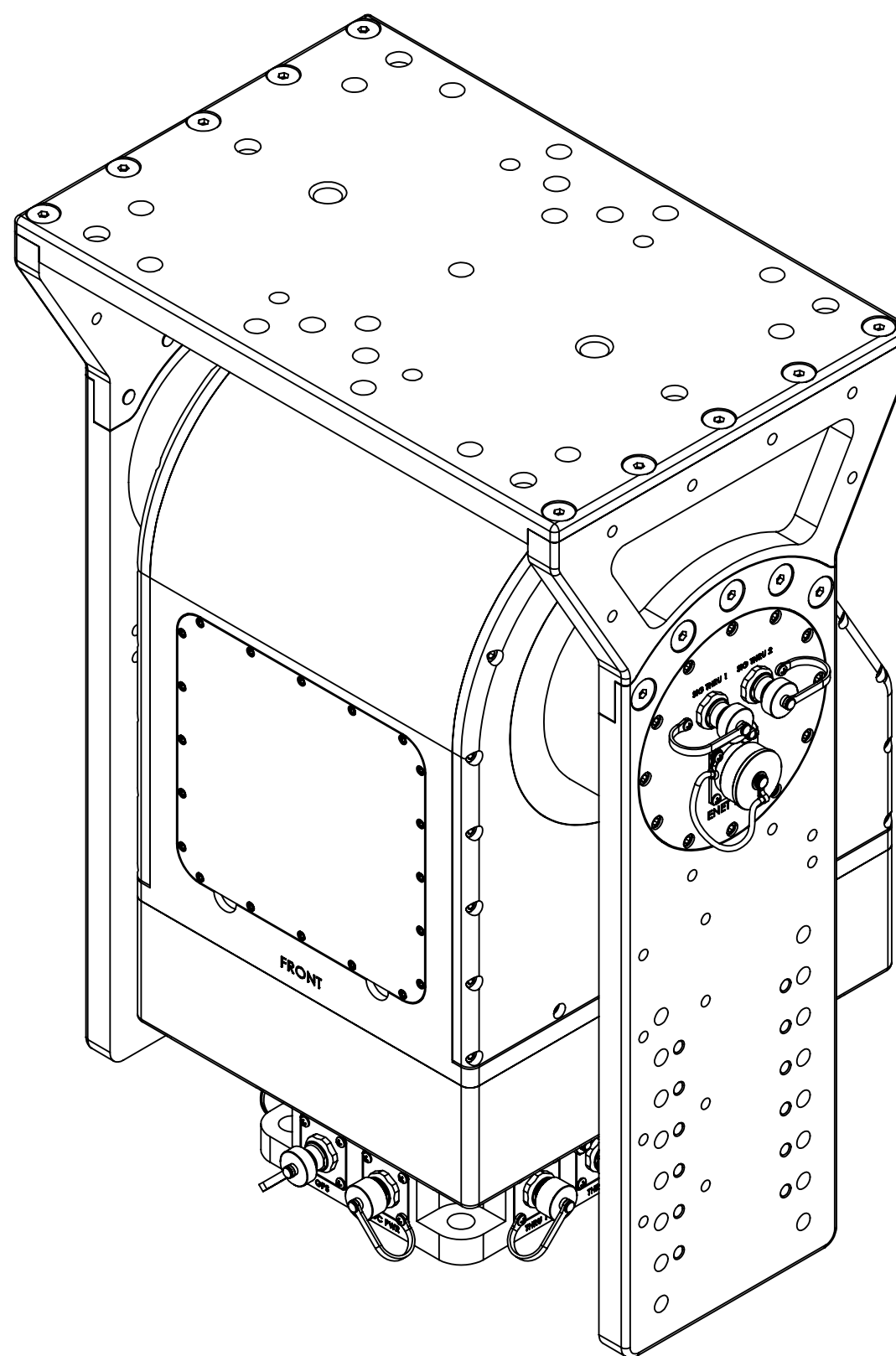


NOTES: UNLESS OTHERWISE SPECIFIED

1. LINKALIGN-360FER-55 CONFIGURABLE OPTIONS PER TABLE I. SHOWN WITH COUNTERWEIGHTS ON SHEET 6. LINKALIGN-360FER-55 SUPPLIED WITH 60 LBS OF COUNTERWEIGHTS (EQUIVALENT TO 60 FT-LBS OF COUNTER BALANCE TORQUE)
2. USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500216 (LA-360FER-55), N500217 (LA-360FER-56)
3. USE TABLE II FOR AVAILABLE LINKALIGN-360FER-55 ACCESSORY OPTIONS
4. POSITIONER POWERED BY POWER OVER ETHERNET 50-57 VDC, 4 PAIR, PoH (INDOOR RATED 54 VDC POWER SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DRAWING). OPTIONAL DC POWER INPUT MAY BE USED AS ALTERNATE CUSTOM CONFIGURATION, 20-60 V. STANDBY POWER DRAWS LESS THAN 16 W. MAXIMUM POWER DRAW, 95 W
5. EXTERNAL CONSTRUCTION COMPRISED OF HARD COAT ANODIZE ALUMINUM WITH STAINLESS STEEL HARDWARE
6. 440° (+/-220°) AZIMUTH TRAVEL WITH UP TO 0.5°/SEC DRIVE RATE (MAX LOAD). DRIVE RATE CUSTOMIZABLE (SEE TABLE I). CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
7. 120° ELEVATION TRAVEL CONFIGURABLE TO (+120°/0°) OR (+30°/-90°) ELEVATION DRIVE RATE UP TO 0.5°/SEC (MAX LOAD). DRIVE RATE CUSTOMIZABLE (SEE TABLE I). CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
8. -40° TO 140°F (-40° TO 60°C) OPERATIONAL TEMPERATURE RANGE. MINIMUM OPERATIONAL TEMPERATURE SPECIFIED AT NO LOAD. -40 TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE
9. 0.1° FEEDBACK RESOLUTION. FOR 0.01° FEEDBACK RESOLUTION AVAILABLE WITH CUSTOM MOTOR ENCODER OPTION (SEE TABLE I). CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
10. AZIMUTH AND ELEVATION BACKLASH LESS THAN 0.05°
11. 21.43" (54.4 cm) HIGH X 17.30" (43.9 cm) WIDE X 12.50" (31.8 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES
12. WEIGHT APPROXIMATELY 115 LBS (52.2 kg) OR 175 LBS (79.4 kg) WITH 60 LBS OF INCLUDED COUNTERWEIGHTS
13. PAYLOAD NOT TO EXCEED 500 LBS OR 290 FT-LBS OF NET TORQUE ABOUT THE ELEVATION AXIS. EFFORT SHOULD BE MADE TO BALANCE ELEVATION PAYLOAD AS MUCH AS POSSIBLE BY USING THE (6) 10 LB COUNTERWEIGHTS PROVIDED. TO CALCULATE TORQUE, TAKE THE DISTANCE FROM THE PAYLOAD CENTER OF GRAVITY TO DATUM -B- IN FEET AND MULTIPLY BY THE PAYLOAD WEIGHT. ELEVATION TORQUE IS CUSTOMIZABLE (SEE TABLE I). CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
14. TABLE TOP MOUNTING HOLES USES NEXTMOVE TYPE 4.750-P INTERFACE. ACCESSORIES AVAILABLE TO MATE WITH THIS INTERFACE (SEE TABLE II). CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
15. CENTER OF GRAVITY 0.2" (0.5 cm) IN THE X-DIRECTION, 11.1" (28.2 cm) IN THE Y-DIRECTION AND 0.5" (1.3 cm) IN THE Z-DIRECTION (WITHOUT COUNTERWEIGHTS)
16. RF PASS THRU COMPRISED OF TWO 35" (20 cm) DC-3GHz N-TYPE FEMALE TO N-TYPE FEMALE CABLE. RF PASS THRU IS CUSTOMIZABLE (SEE TABLE I). CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
17. SIGNAL PASS THRU WIRES ABLE TO CARRY UP TO 60 VAC / 75 VDC, 2A
18. PASS THRU CONNECTORS MAY BE CUSTOMIZED UPON REQUEST. CONTACT NEXTMOVE FOR MORE INFORMATION
19. ETHERNET PASS THRU USES 24 INCH LONG CAT6 ETHERNET CABLE
20. SUPPLEMENTAL INTERFACE CONTROL DRAWING FOR CUSTOM CONFIGURATIONS AVAILABLE UPON REQUEST

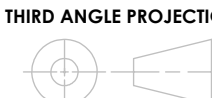
NOTES CONTINUED ON SHEET 6

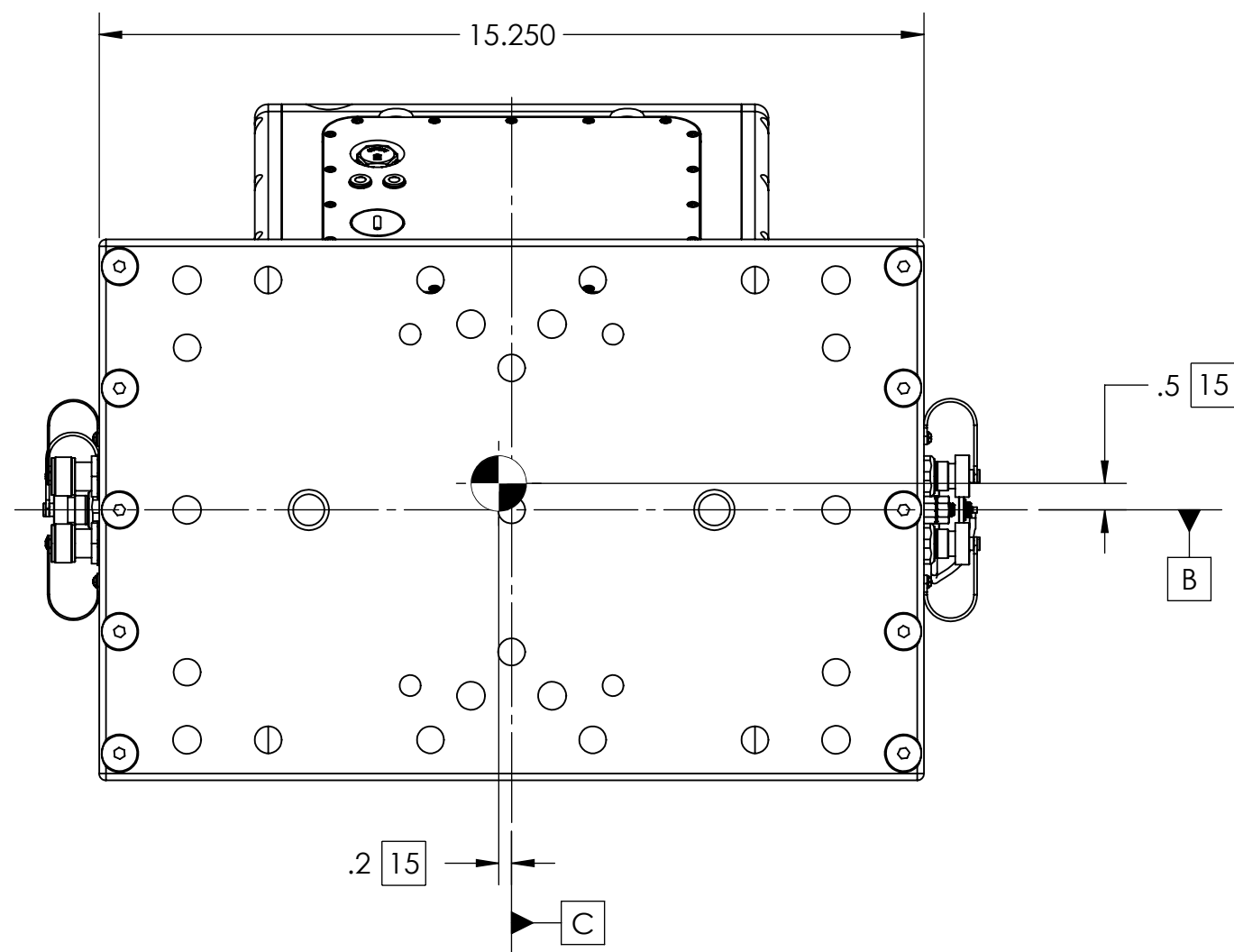
ACCESSORY DESCRIPTION	ACCESSORY PART NUMBER	ACCESSORY ICD
QUADPOD, TYPE 4.750-P INTERFACE	ACC-N901369-1	ICDN901369
TRANSIT CASE, FER-55	TC-LA-360FER-55-1	N/A



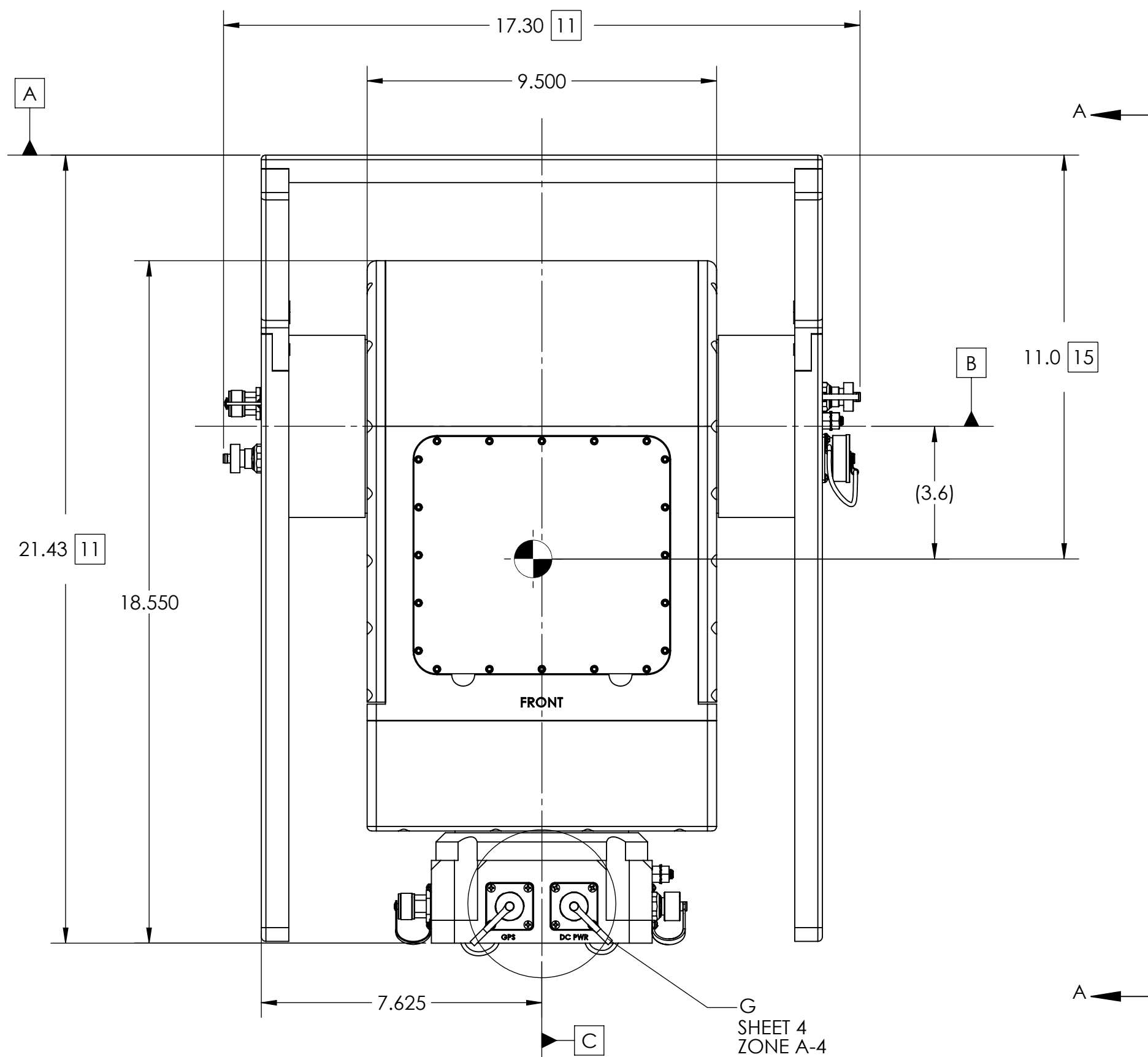
REV	DESCRIPTION	DATE	APPROVED
A	IR800795	2023-01-18	CLC

BUILDING A PART NUMBER	STANDARD OPTIONS
LA-360FER - 55 - - 100	<<EXAMPLE
	SHIELDED ETHERNET CABLE STANDARD LENGTHS
	050 = 50 ft
	100 = 100 ft
	150 = 150 ft
	200 = 200 ft
	250 = 250 ft
	300 = 300 ft
	XXX = Custom length in feet
	XXXC = Add "C" to end of cable length for unterminated mating connector
	CUSTOM CONFIGURATION
	= Standard options - leave blank
	ME = Motor Encoders
	2RF18G = (2) Custom DC-18 GHz RF Pass Thrus
	MOTOR DRIVES AND PAYLOAD
	55 = Az/EI Travel @ 0.5°/s, EI Torque 100 ft-lbs, 500 lb payload. Typically paired with 4-8 ft antenna
	56 = Az Travel @ 2°/s, EI Travel @ 0.5°/s, EI Torque 100 ft-lbs, 500 lb payload. Typically paired with 4-8 ft antenna
	MODEL
	LA-360FER = LinkAlign-360FER (+/-220° azimuth, +120/0 elevation)

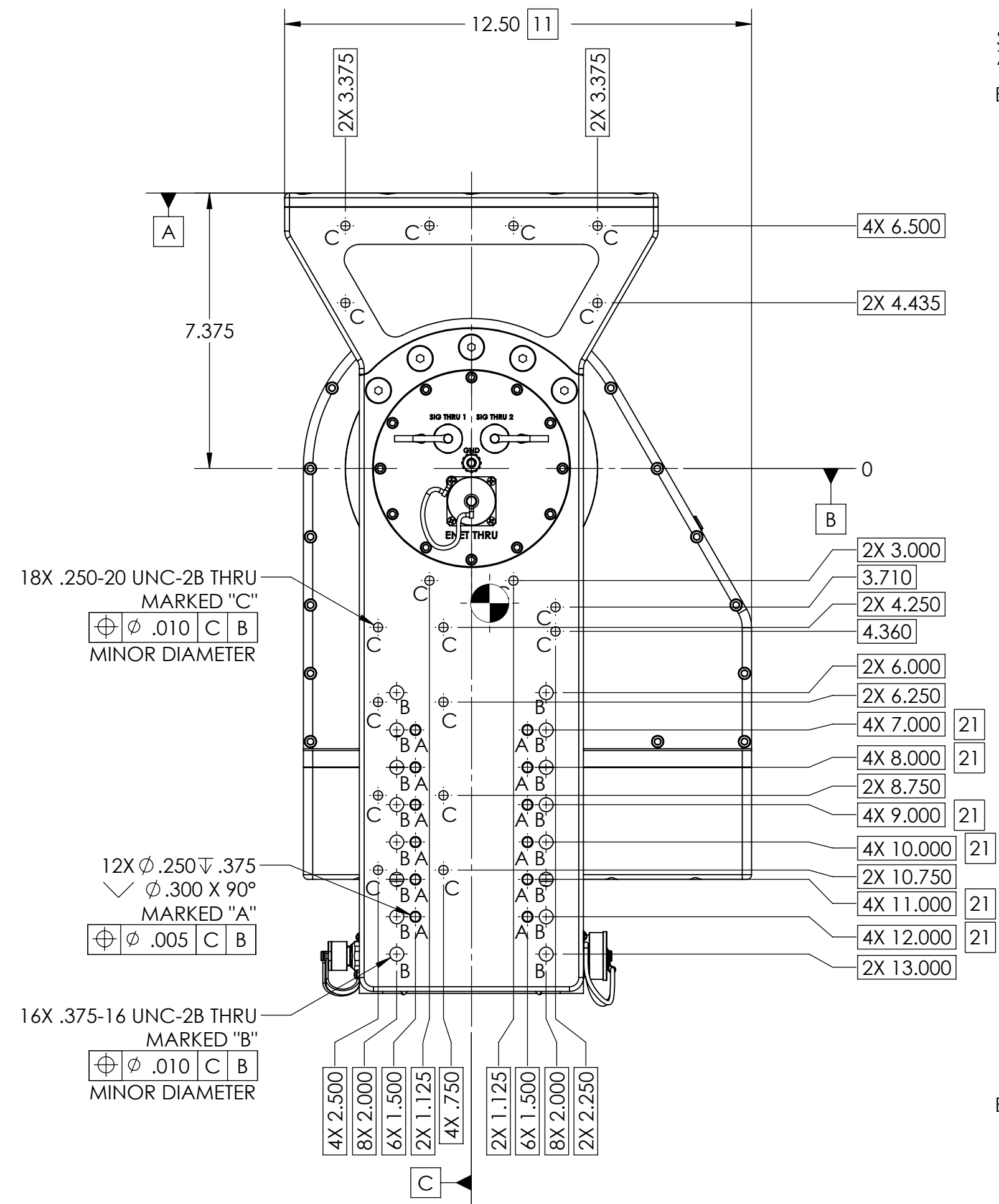
SYMBOL KEY <input type="checkbox"/> NOTE <input type="checkbox"/> PL ITEMS PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NEXTMOVE TECHNOLOGIES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NEXTMOVE TECHNOLOGIES IS PROHIBITED. NEXTMOVE TECHNOLOGIES, LLC HOLLIS, NH 03049 www.nextmove.tech.com	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLE ± 5 DEGREES TWO PLACE DECIMAL ±.030 THREE PLACE DECIMAL ±.010 INTERPRET DIM AND TOL PER ASME Y14.5M - 1994 THIRD ANGLE PROJECTION  DO NOT SCALE DRAWING	DRAWN C. CHEYNE 2023-01-18 CHECKED S. CHEYNE 2023-01-18 ME APPR. C. CHEYNE 2023-01-18 EE APPR.	NEXTMOVE TECHNOLOGIES TITLE: LINKALIGN-360FER-55, INTERFACE CONTROL DRAWING
		PART NO. SEE TABLE I	SIZE DWG. NO. REV C ICDN901361 A
		SCALE: 5:16	SHEET 1 OF 6



TOP VIEW

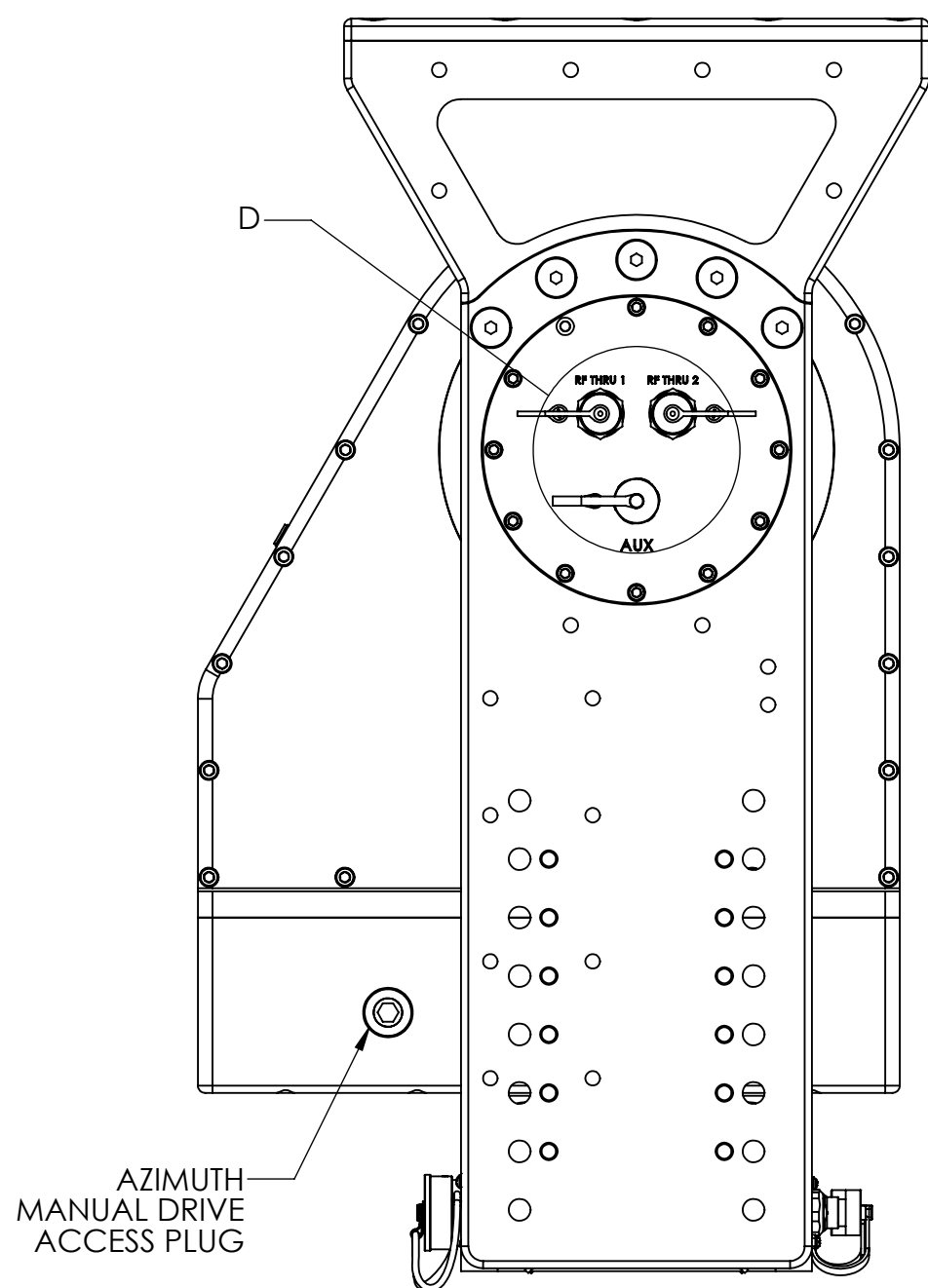
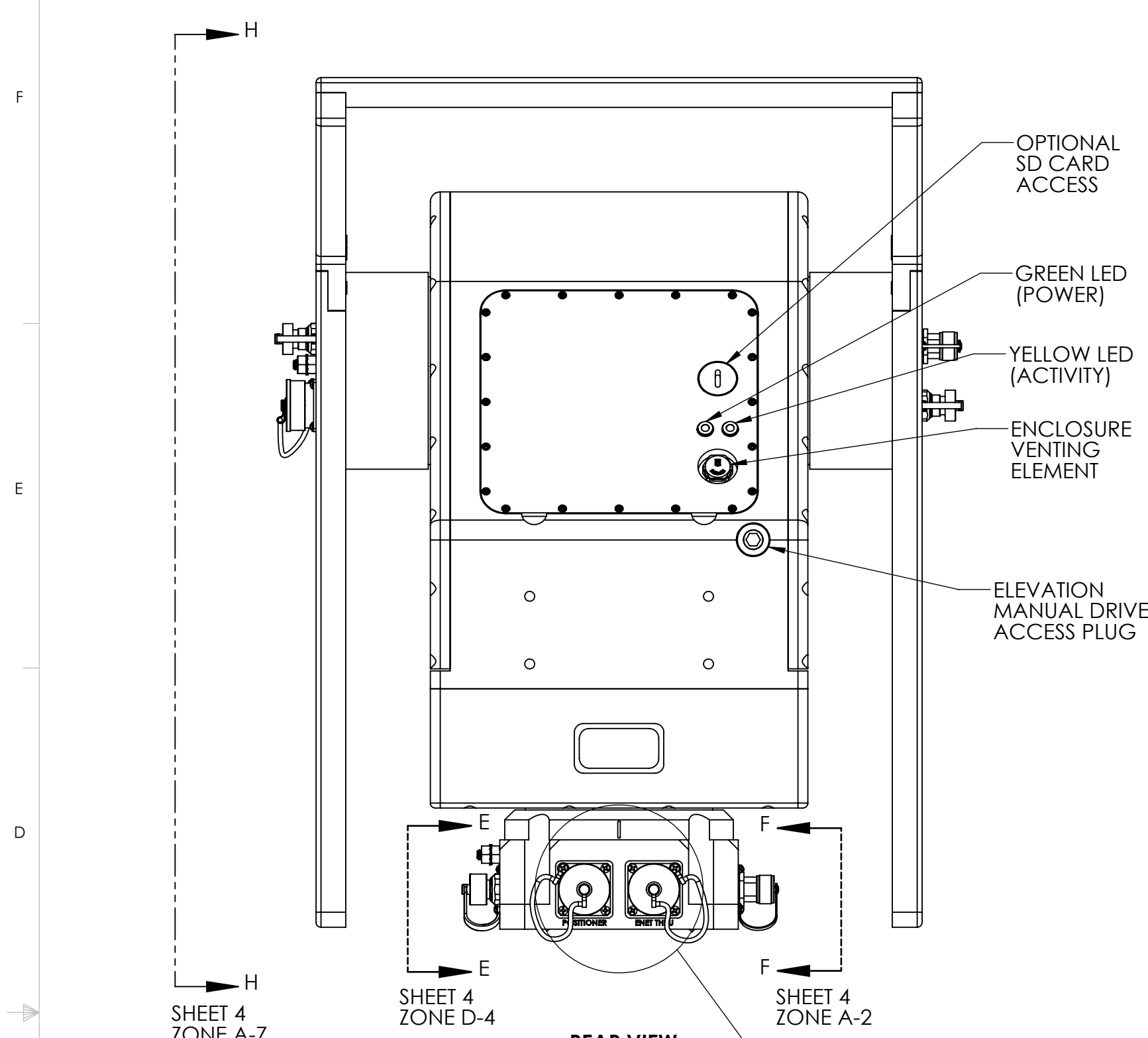


FRONT VIEW

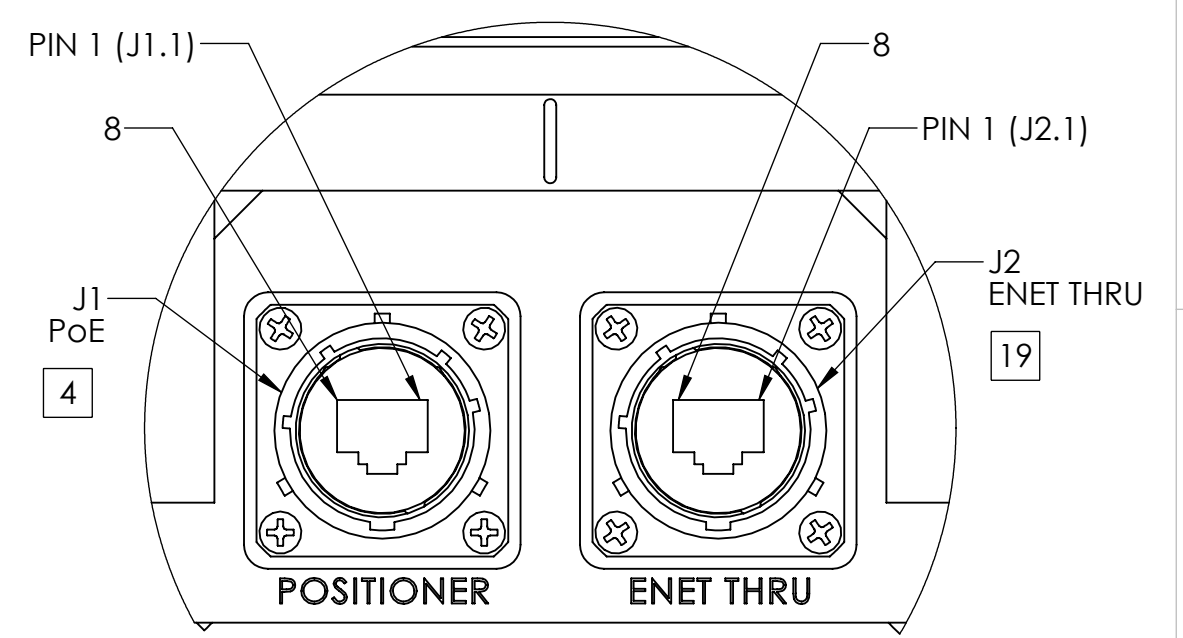


RIGHT VIEW
VIEW A-A
HOLES "A", "B" & "C" ON BOTH SIDES

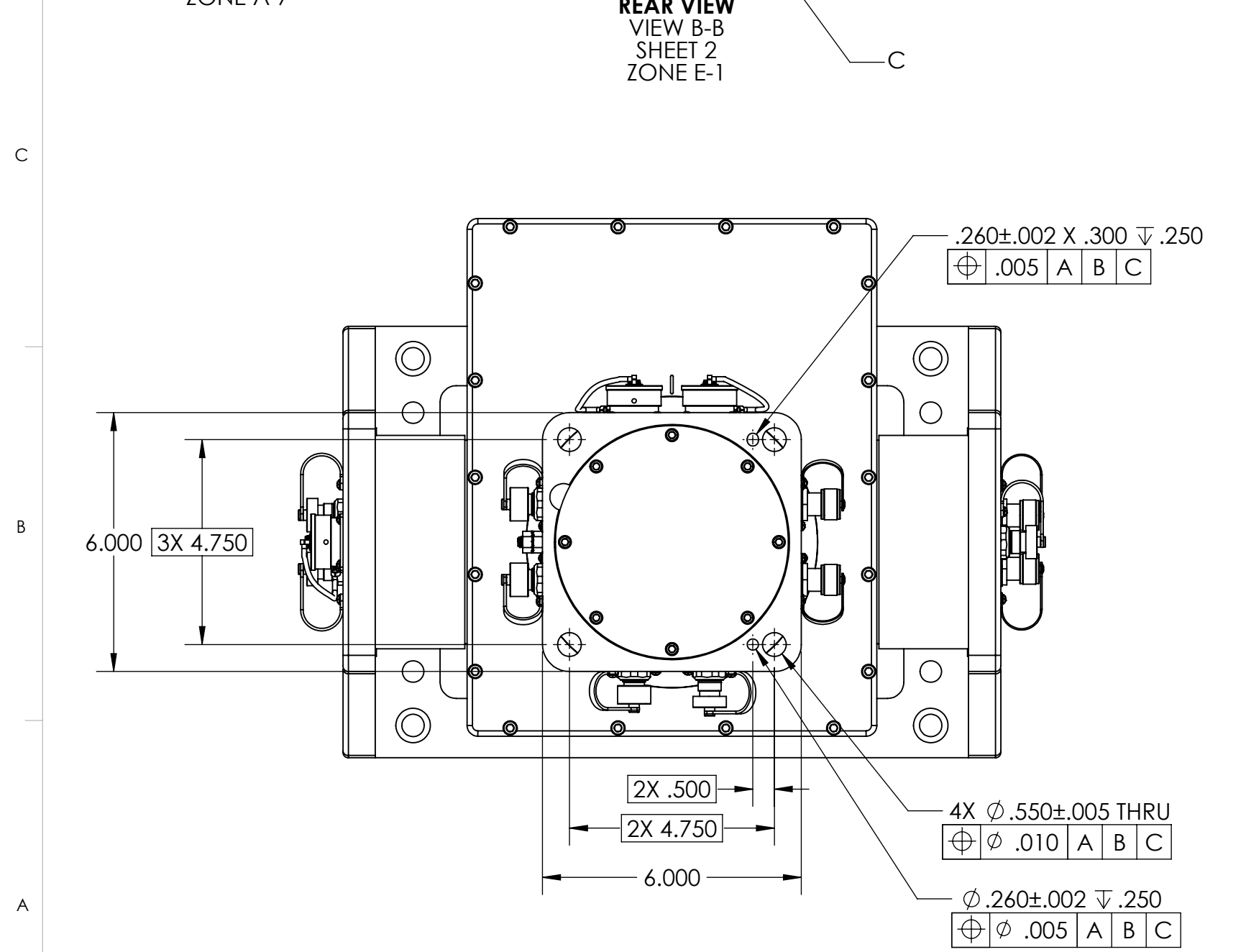
SHEET 3
ZONE C-7



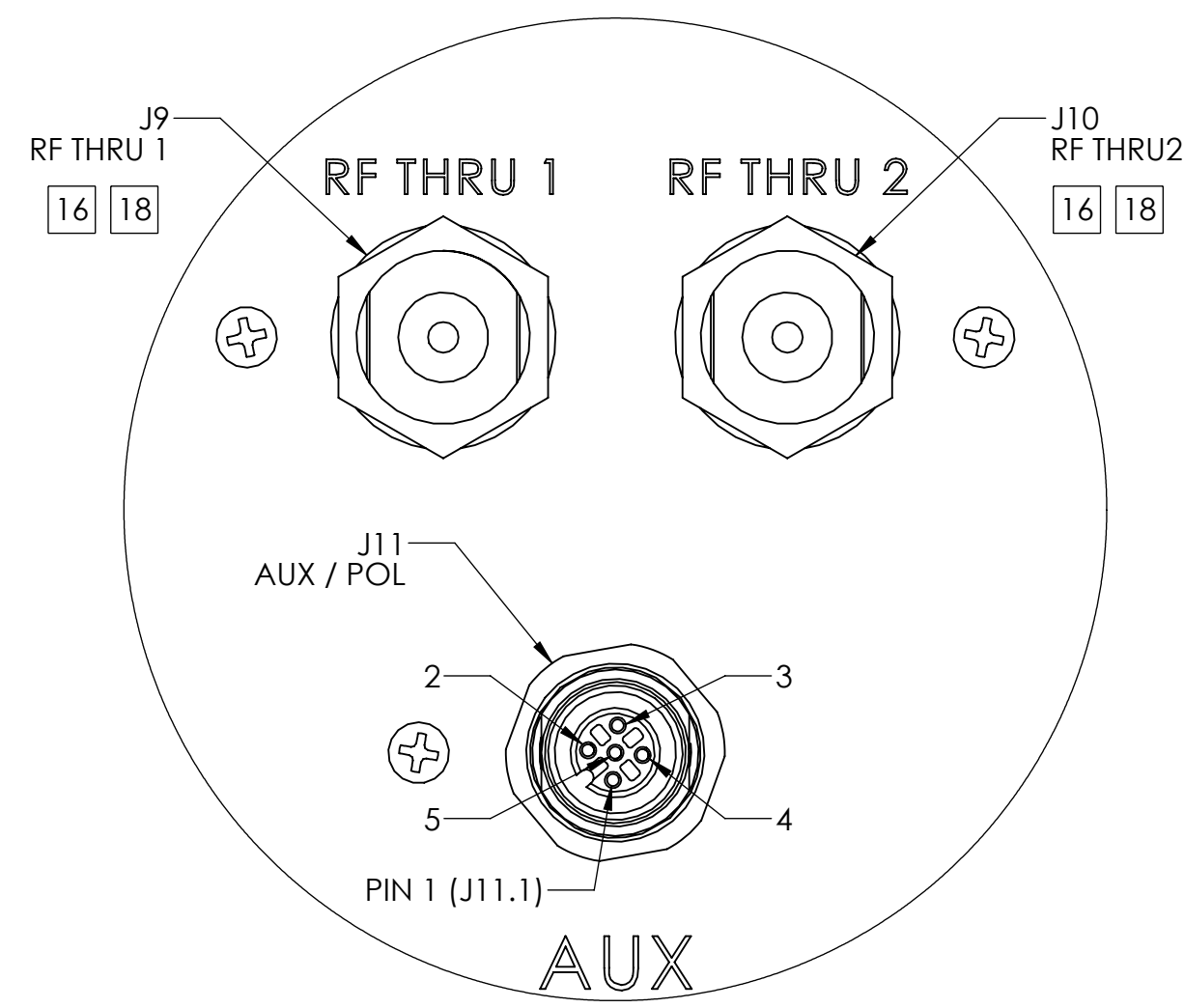
LEFT VIEW



CONNECTORS SHOWN FROM MATING SIDE
 J1 & J2 MATES WITH AMPHENOL P/N RJF6B
 DETAIL C
 SCALE 1 : 1
REAR VIEW, AZIMUTH BASE CONNECTORS
 SHOWN WITHOUT CONNECTOR CAPS
 SEE TABLE III FOR J1 PoE CONNECTOR PINOUT DETAILS
 SEE TABLE VI FOR J2 PASS THRU CONNECTOR PINOUT DETAILS



BOTTOM VIEW
 TABLE TOP MOUNTING HOLES
 NEXTMOVE TYPE 4.750-P INTERFACE



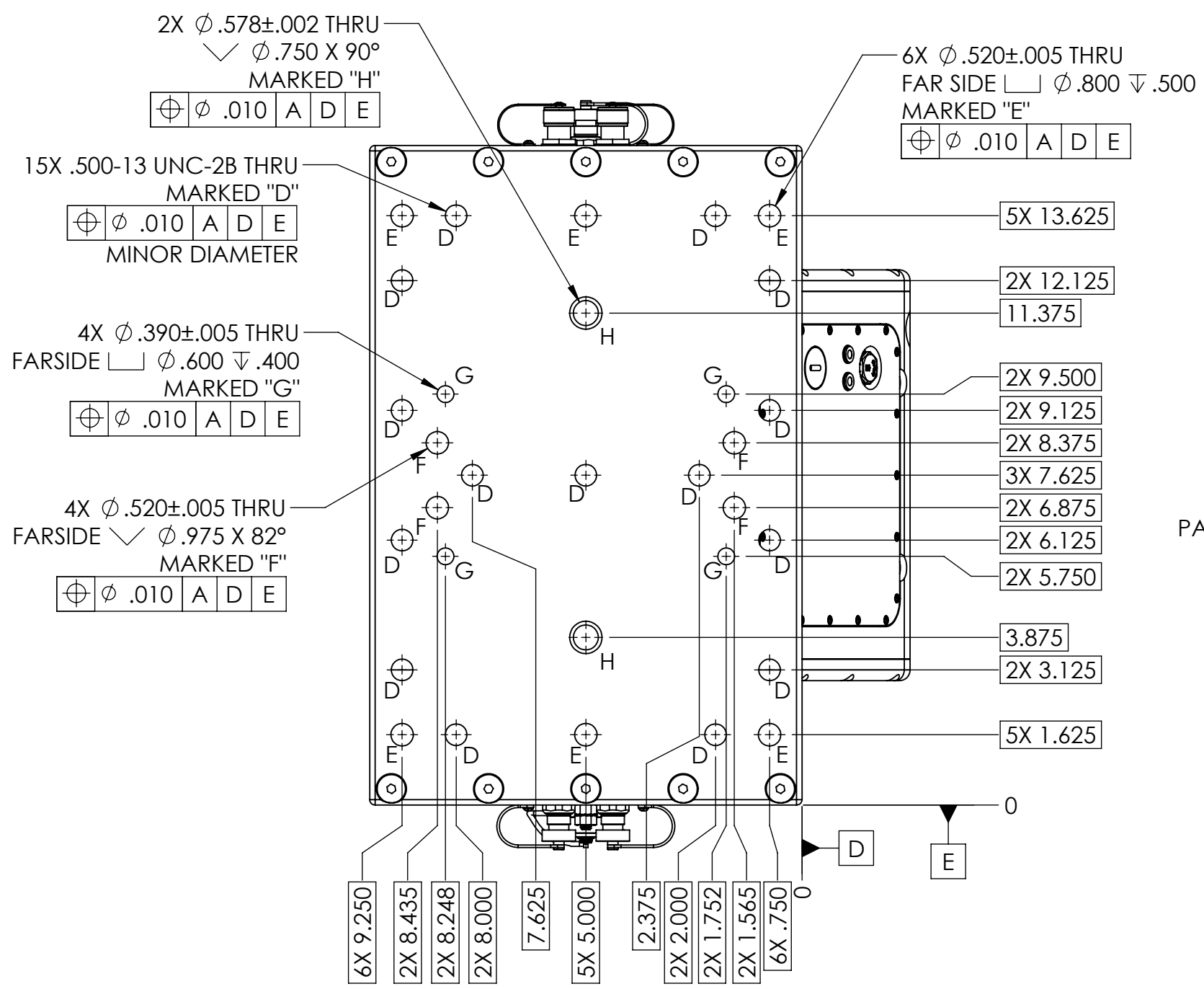
CONNECTORS SHOWN FROM MATING SIDE
 J9 AND J10 MATES WITH N-TYPE MALE CONNECTOR
 STANDARD RF PASS THRUS - DC-3GHZ
 J11 USED FOR NEXTMOVE OPTIONAL CROSS ELEVATION ACCESSORY
 DETAIL D
 SCALE 3 : 2
LEFT VIEW, ELEVATION PANEL CONNECTORS
 SHOWN WITHOUT CONNECTOR CAPS
 SEE TABLE VI FOR J9 & J10 PASS THRU CONNECTOR PINOUT DETAILS
 SEE TABLE IV FOR AUX/POL CONNECTOR DETAILS

TABLE III (PoE CONNECTOR)

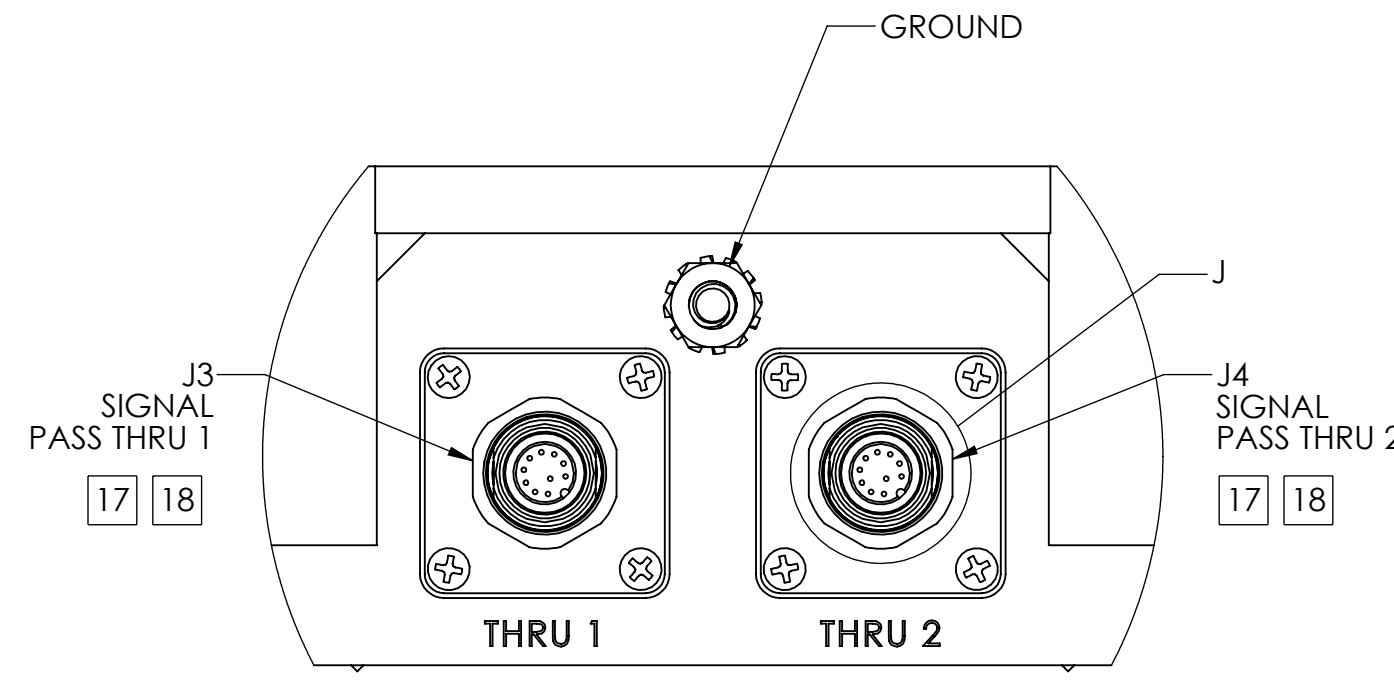
CONNECTOR DESIGNATION	FUNCTION
J1.1	DATA PAIR 1
J1.2	DATA PAIR 1
J1.3	DATA PAIR 2
J1.4	+50-57 VDC PoE POWER INPUT
J1.5	+50-57 VDC PoE POWER INPUT
J1.6	DATA PAIR 2
J1.7	DC RETURN FOR PoE INPUT
J1.8	DC RETURN FOR PoE INPUT

TABLE IV (AUX/POLARIZATION CONNECTOR)

CONNECTOR DESIGNATION	FUNCTION
J11.1	GND
J11.2	+/-12 VDC MOTOR
J11.3	+/-12 VDC MOTOR
J11.4	POT WIPER
J11.5	+3.3V



TOP VIEW



CONNECTORS SHOWN FROM MATING SIDE
 J3 & J4 MATES WITH TURCK P/N RK 10T-* (*LENGTH IN METERS)

SECTION E-E
 SCALE 1 : 1
 SHEET 3 ZONE D-7
RIGHT VIEW, AZIMUTH BASE CONNECTORS
 SHOWN WITHOUT CONNECTOR CAPS
 SEE TABLE VI FOR J3 & J4 PASS THRU CONNECTOR PINOUT DETAILS

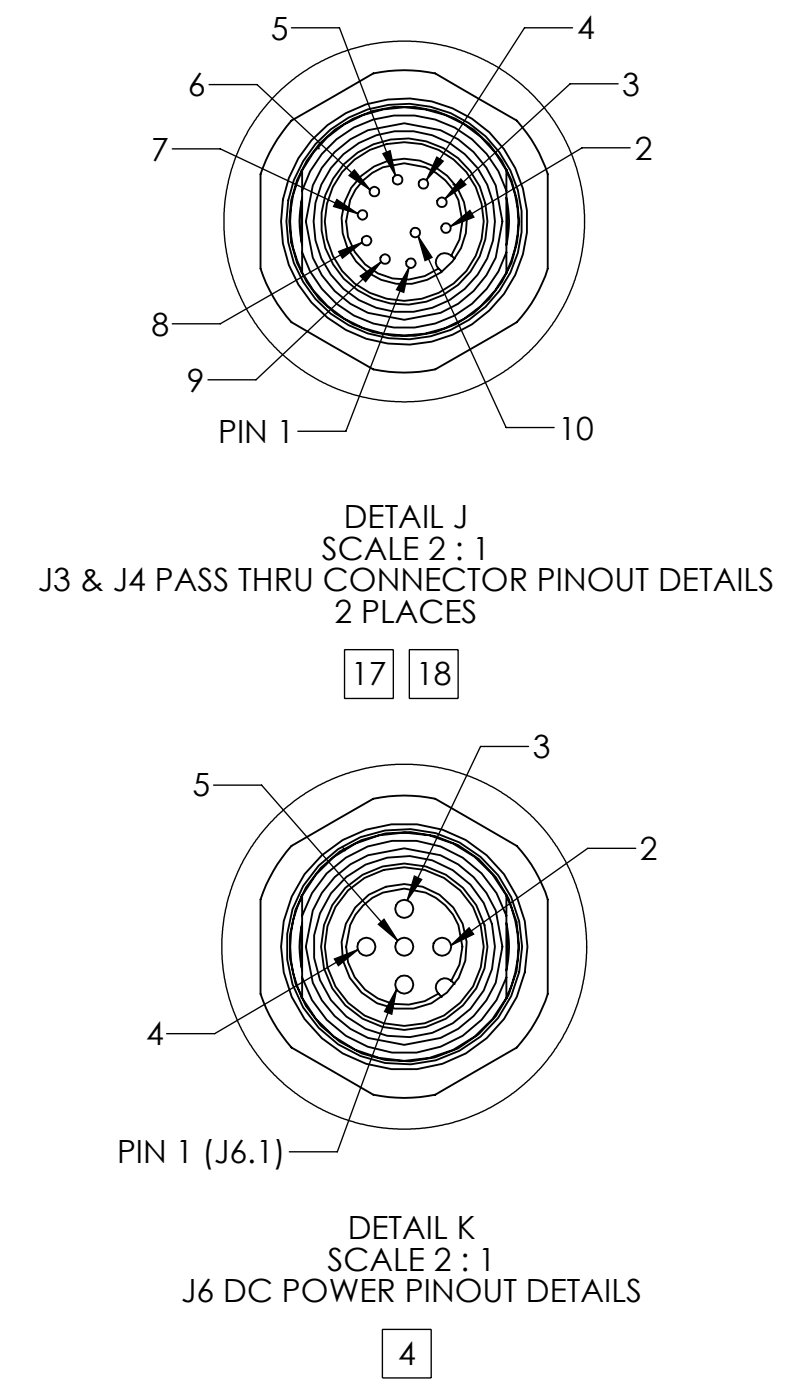
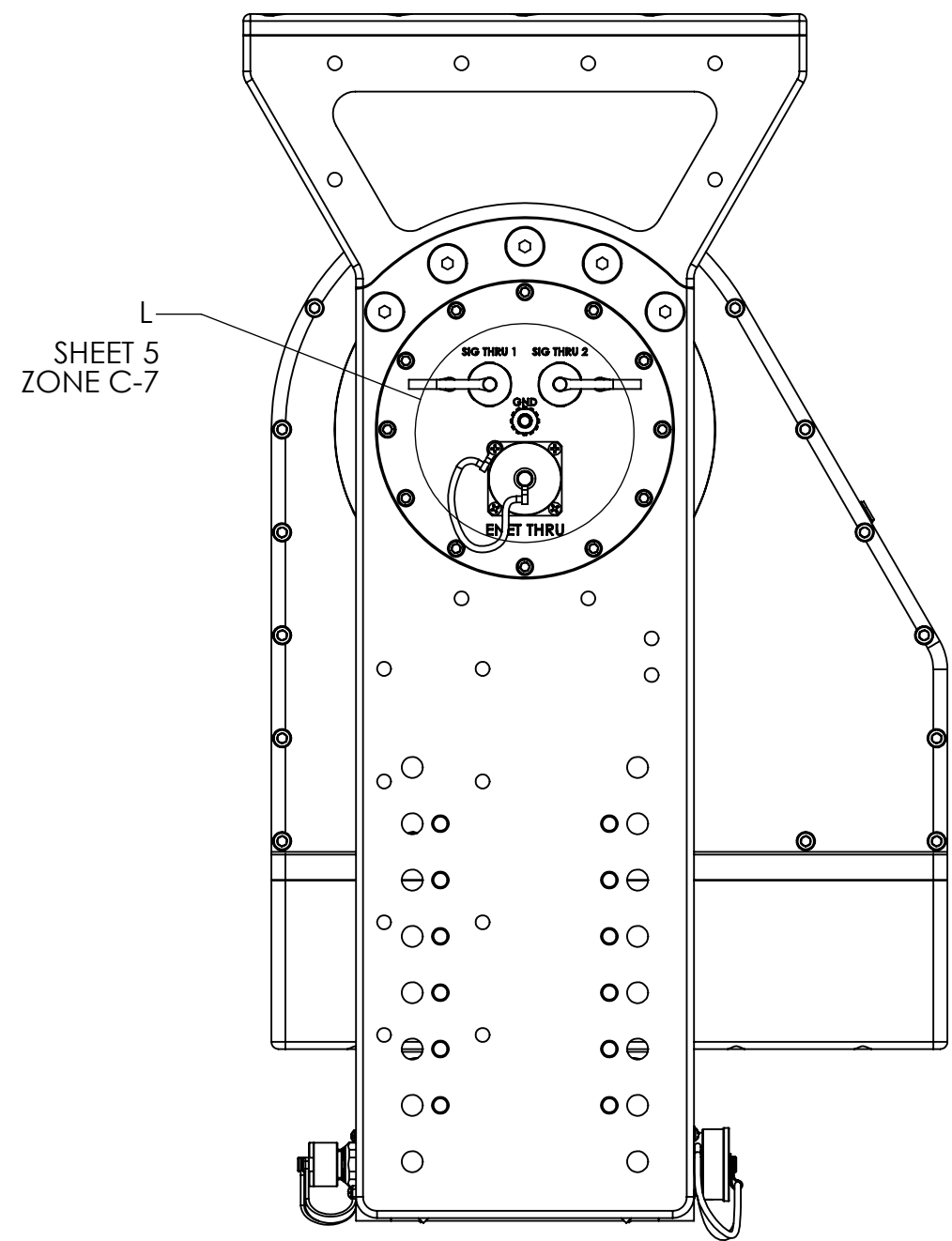
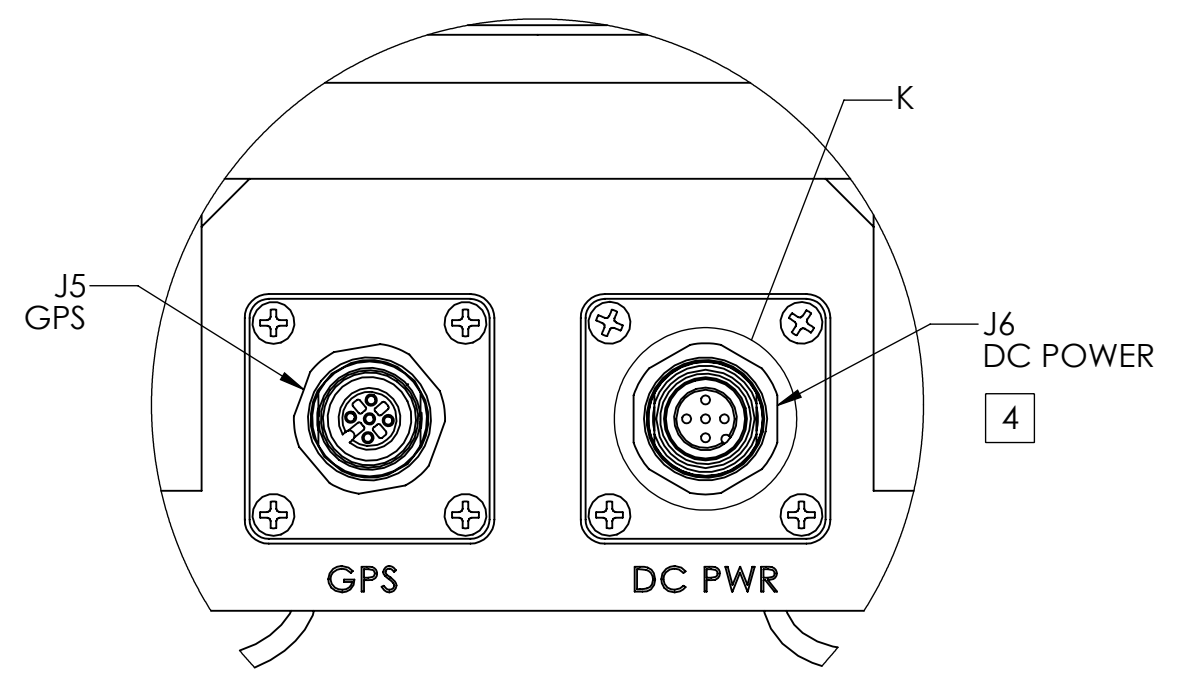


TABLE V (DC POWER CONNECTOR) 4	
CONNECTOR DESIGNATION	FUNCTION
J6.1	N/C
J6.2	N/C
J6.3	+20-60 VDC POWER INPUT
J6.4	N/C
J6.5	GND

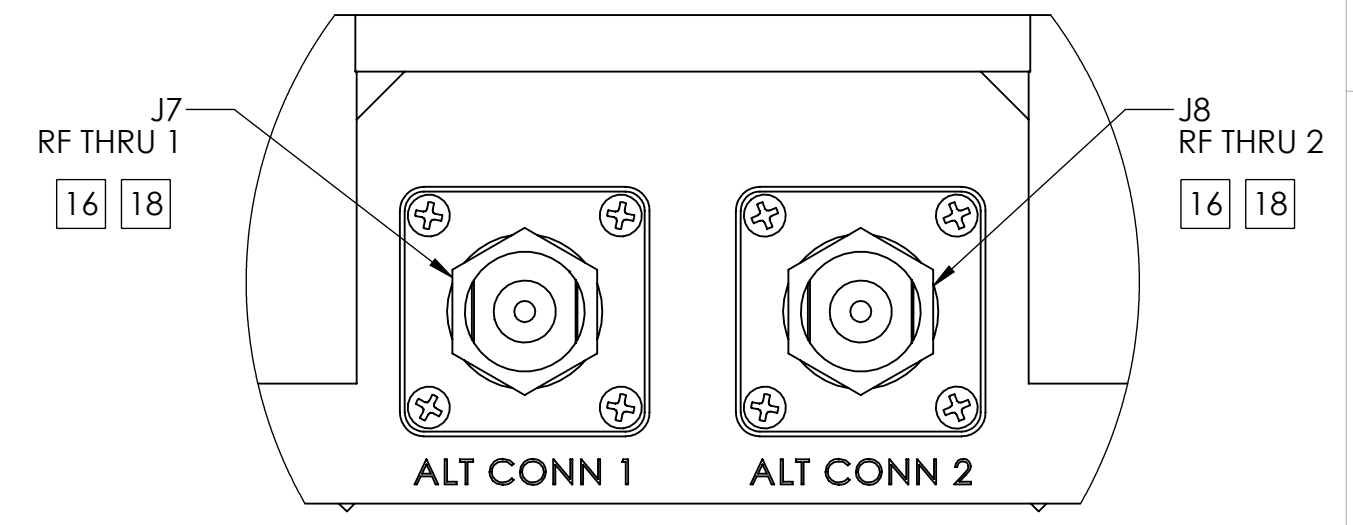


RIGHT VIEW
 VIEW H-H
 SHEET 3
 ZONE D-8



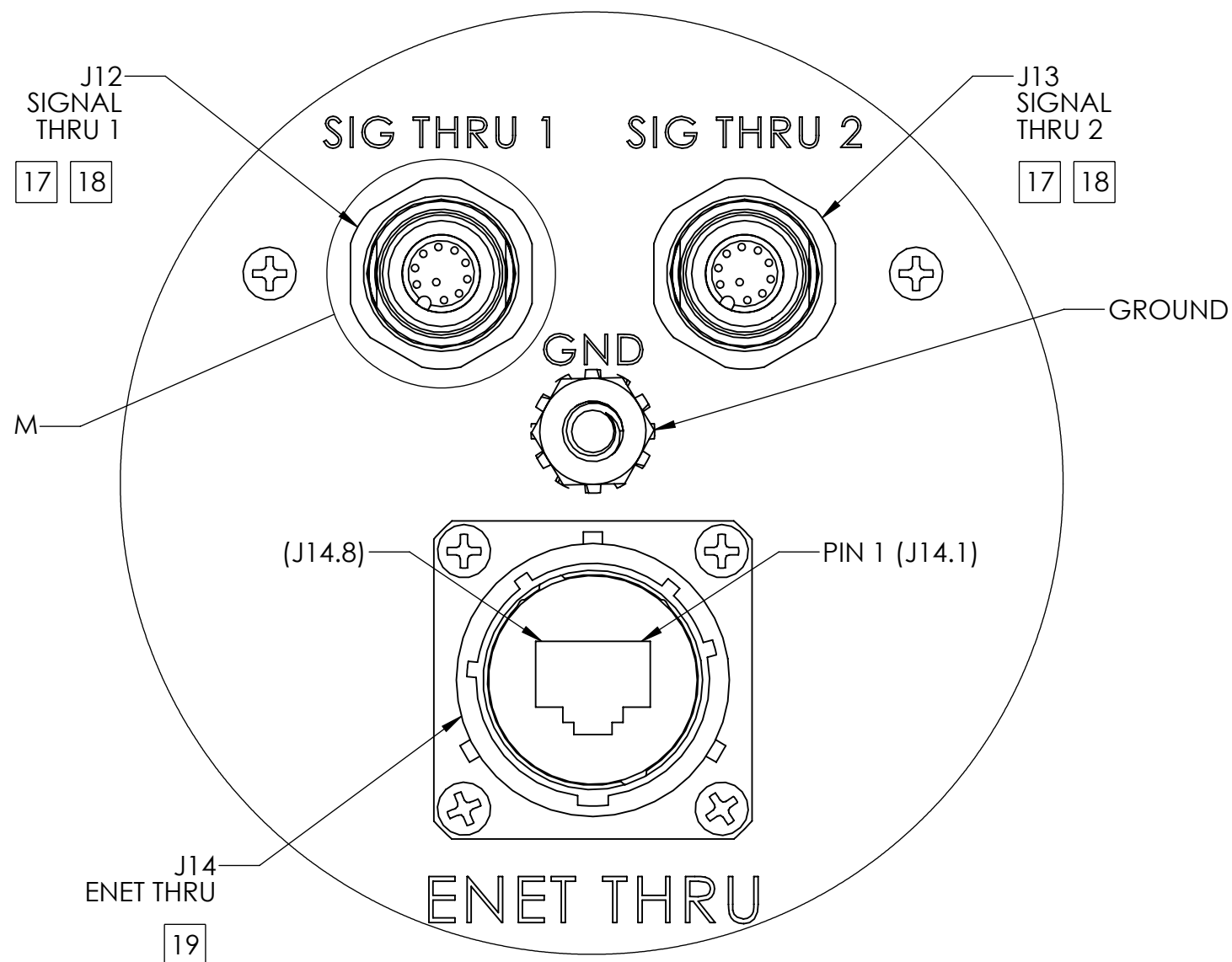
CONNECTORS SHOWN FROM MATING SIDE
 J5 USED FOR NEXTMOVE GPS OR OPTIONAL GHU ACCESSORY
 J6 MATES WITH TURCK P/N RK 4.5T-* (*LENGTH IN METERS)

DETAIL G
 SCALE 1 : 1
 SHEET 2 ZONE A-6
FRONT VIEW, AZIMUTH BASE CONNECTORS
 SHOWN WITHOUT CONNECTOR CAPS
 SEE TABLE V FOR J6 DC POWER CONNECTOR PINOUT DETAILS



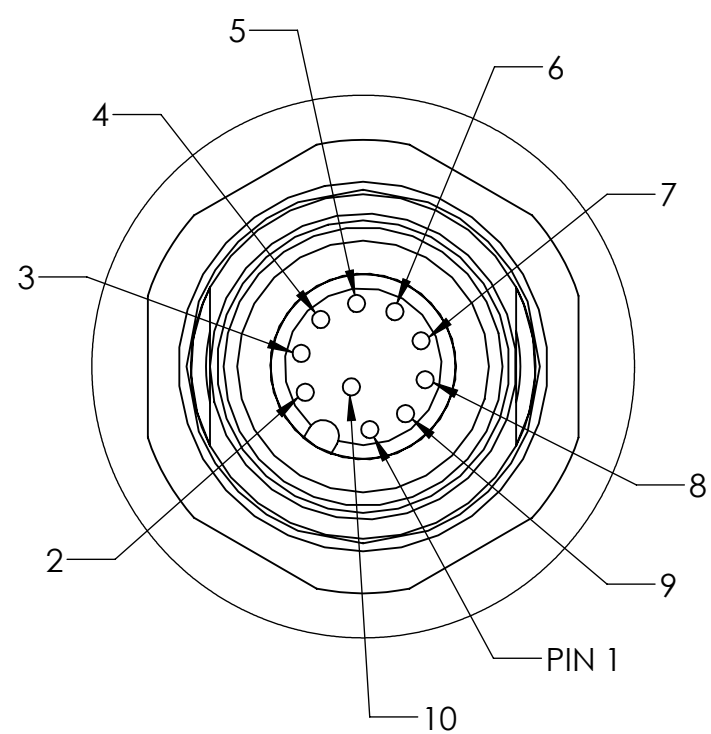
CONNECTORS SHOWN FROM MATING SIDE
 J7 AND J8 MATES WITH N-TYPE MALE CONNECTOR
 STANDARD RF PASS THRU'S - DC-3GHz

SECTION F-F
 SCALE 1 : 1
 SHEET 3 ZONE D-6
LEFT VIEW, AZIMUTH BASE CONNECTORS
 SHOWN WITHOUT CONNECTOR CAPS
 SEE TABLE VI FOR J7 & J8 PASS THRU CONNECTOR PINOUT DETAILS



CONNECTORS SHOWN FROM MATING SIDE
 J12 & J13 MATES WITH TURCK P/N RS 10T-* (*LENGTH IN METERS)
 J14 MATES WITH AMPHENOL P/N RJF6B

DETAIL L
 SCALE 3 : 2
 SHEET 4 ZONE C-8
RIGHT VIEW, ELEVATION PANEL CONNECTORS
 SHOWN WITHOUT CONNECTOR CAPS
 SEE TABLE VI FOR J12, J13 & J14 PASS THRU CONNECTOR PINOUT DETAILS



DETAIL M
 SCALE 3 : 1
 J12 & J13 PASS THRU CONNECTOR PINOUT DETAILS
 2 PLACES

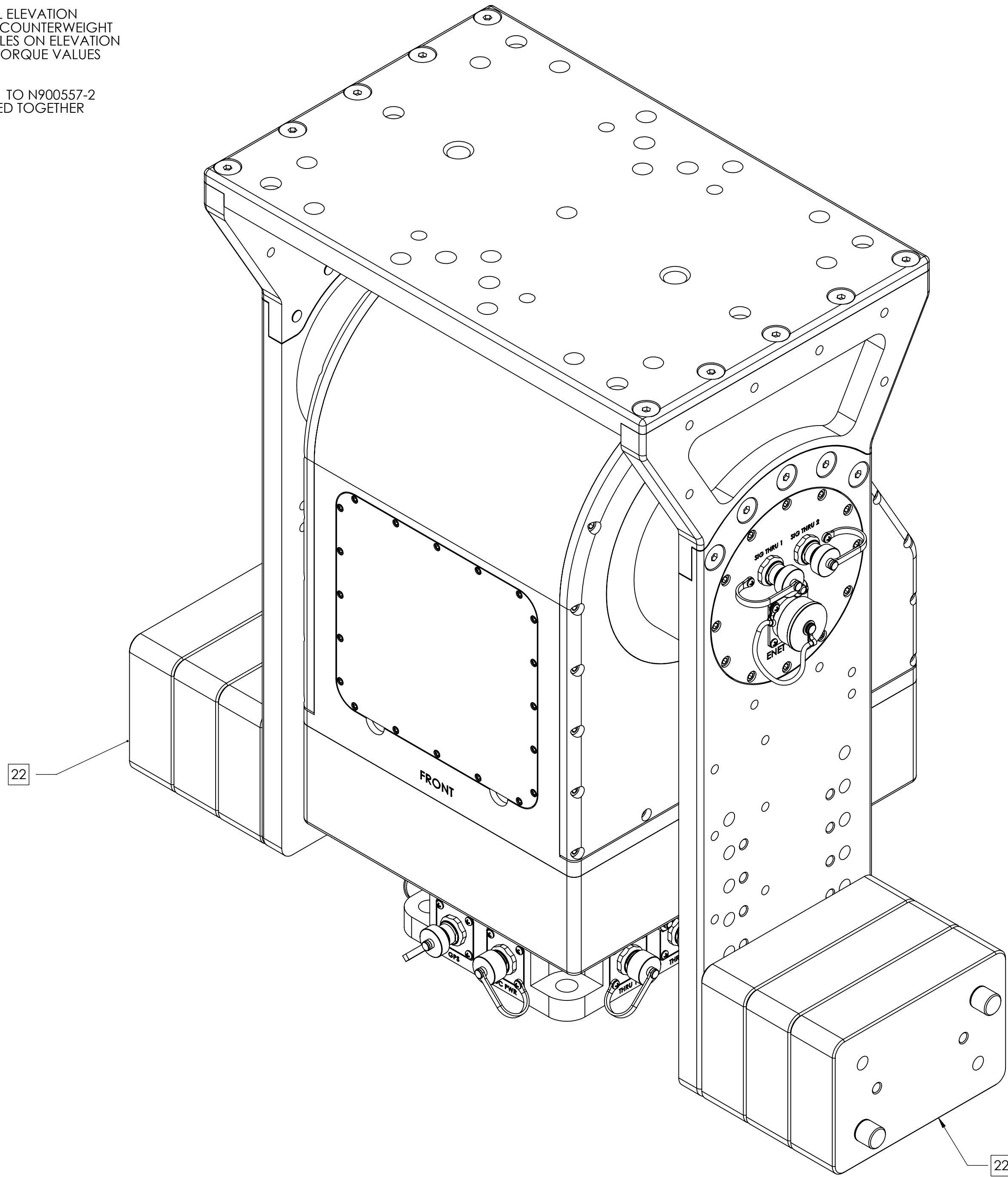
[17] [18]

TABLE VI (PASS THRU CONNECTORS) 18

FROM	TO
J2.1	J14.1
↓	↓
J2.8	J14.8
J3.1	J12.1
↓	↓
J3.10	J12.10
J4.1	J13.1
↓	↓
J4.10	J13.10
J7.1	J9.1
J8.1	J10.1

NOTES CONTINUED:

- 21 COUNTERWEIGHTS SHOWN AT MAXIMUM ADDITIONAL ELEVATION TORQUE OF 60 FT-LBS TO ADJUST ELEVATION TORQUE COUNTERWEIGHT LOCATIONS MAY BE ADJUSTED USING MOUNTING HOLES ON ELEVATION ARM. SEE DIMENSIONS ON VIEW A-A TO CALCULATE TORQUE VALUES AT RESPECTIVE MOUNTING HOLE LOCATIONS
- 22 COUNTERWEIGHTS MUST ALTERNATE FROM N900557-1 TO N900557-2 OR VICE VERSA WHEN COUNTERWEIGHTS ARE STACKED TOGETHER (COUNTERWEIGHTS WEIGH 10 LBS EACH)



SHOWN WITH COUNTERWEIGHTS