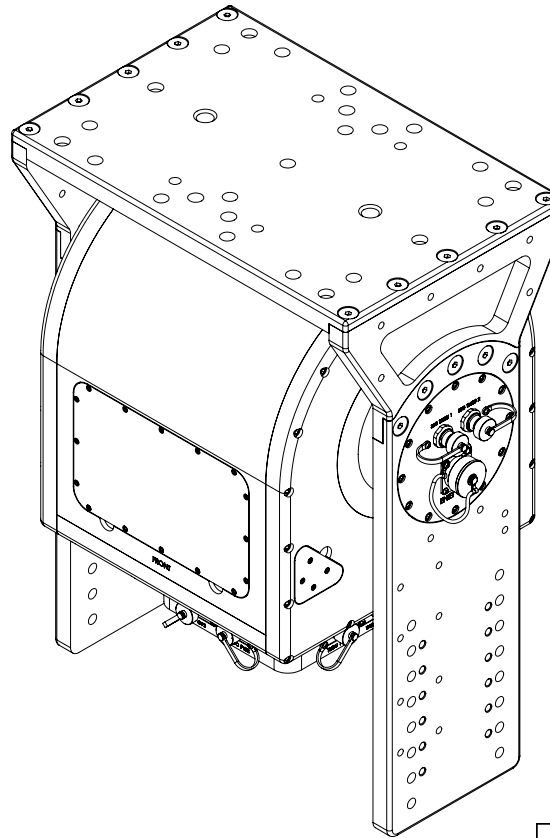


REV	DESCRIPTION	DATE	APPROVED
E	CN601209	2023-02-09	CLC

NOTES: UNLESS OTHERWISE SPECIFIED

1. LINKALIGN-360MPT-40 CONFIGURABLE OPTIONS PER TABLE I. SHOWN WITH COUNTERWEIGHTS ON SHEET 6. LINKALIGN-360MPT-40 SUPPLIED WITH 60 LBS OF COUNTERWEIGHTS (EQUIVALENT TO 60 FT-LBS OF TORQUE)
2. USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500159 (LA-360MPT-40), N500164 (LA-360MPT-41), N500176 (LA-360MPT-42), N500213 (LA-360MPT-43)
3. SEE TABLE II FOR AVAILABLE LINKALIGN-360MPT-40 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.) DC POWER INPUT MAY BE USED AS ALTERNATE POWER, 20-60V. 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. 480° (+/-240°) AZIMUTH TRAVEL WITH UP TO 15°/SEC DRIVE RATE (NO LOAD). DRIVE RATE CUSTOMIZABLE (SEE TABLE I). CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
- 7 190° ELEVATION TRAVEL, CONFIGURABLE TO (+185/-5°) OR (+95°/-95°). ELEVATION DRIVE RATE UP TO 8°/SEC (NO LOAD). DRIVE RATE CUSTOMIZABLE (SEE TABLE I). CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
8. -10° TO 140°F (-23° TO 60°C) OPERATIONAL TEMPERATURE RANGE. -40 TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE
9. 0.01° FEEDBACK RESOLUTION IN ALL AXES
10. AZIMUTH AND ELEVATION BACKLASH LESS THAN 0.1°
- 11 21.38" (54.3 cm) HIGH X 11.50" (29.2 cm) WIDE X 17.32" (44.0 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES
12. WEIGHT APPROXIMATELY 99 LBS (44.9 kg), WITHOUT COUNTERWEIGHTS
13. PAYLOAD SHALL NOT EXCEED 160 LB (72.6 kg) (INCLUDING COUNTERWEIGHTS) OR 40 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. POSITIONER IS BACKDRIVABLE WHEN NOT POWERED UP OR IN STANDBY MODE. ELEVATION HOLDING TORQUE IN STANDBY IS 15 FT-LBS. MAXIMUM OPERATING TORQUE MAY BE REDUCED AT TEMPERATURES BELOW 17°F (-8°C) AND/OR WITH USE OF PERIPHERAL DEVICES. 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, 9.2" (23.4 cm) IN THE Y-DIRECTION AND 0.2" (0.5 cm) IN THE Z-DIRECTION
- 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

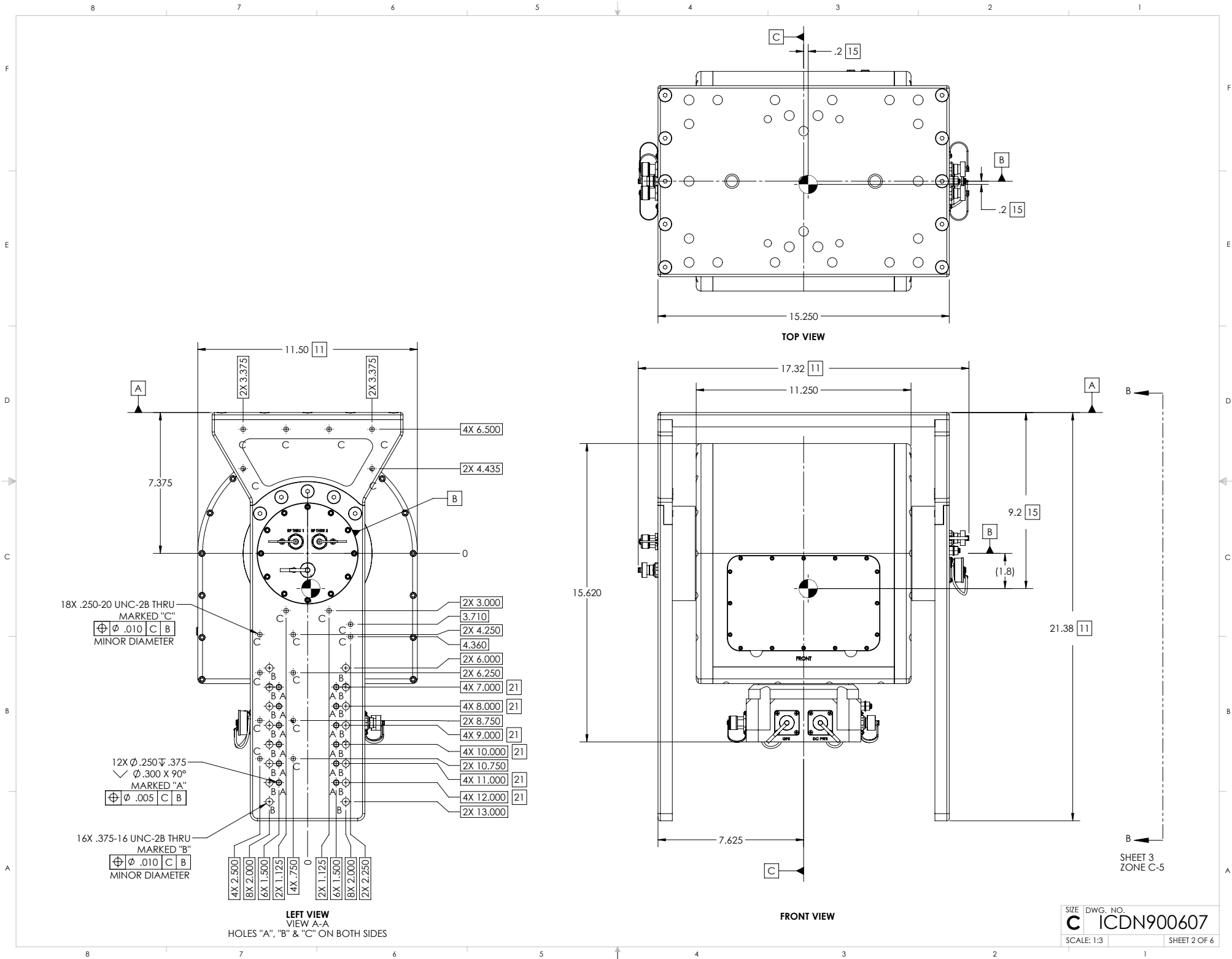


NOTES CONTINUED ON SHEET 6

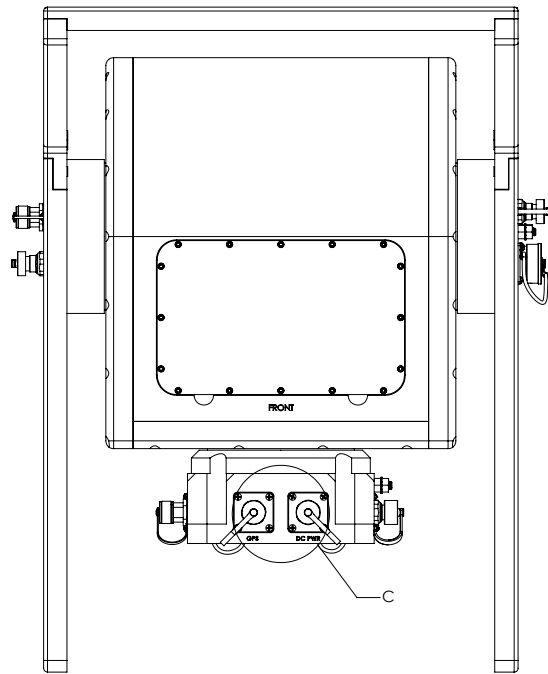
ACCESSORY DESCRIPTION	ACCESSORY PART NUMBER	ACCESSORY ICD
CROSS ELEVATION DRIVE ASSEMBLY KIT, MPT-40	ACC-N900555-1	ICDN900555
QUADPOD, TYPE 4.750-P INTERFACE	ACC-N901369-1	ICDN901369
TRANSIT CASE, MPT-40	TC-LA-360MPT-40-1	N/A

BUILDING A PART NUMBER	STANDARD OPTIONS
LA-360MPT - 40 - - 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
	18G = 18GHz RF Pass Thrus
	NRF = No RF Pass Thrus
	GR = GHU Ready
MOTOR DRIVES AND PAYLOAD	
	40 = Az Travel @ 15°/s, El Travel @ 8°/s, El torque 40 ft-lbs, 160 lb payload (including Ctrweights.) Typically paired with 3-4 ft antennas
	41 = Az/El Travel @ 3°/s, El torque 100 ft-lbs, 160 lb payload (including Ctrweights.) Typically paired with 3-4 ft antennas
	42 = Az Travel @ 15°/s, El Travel @ 3°/s, El torque 100 ft-lbs, 160 lb payload (including Ctrweights.) Typically paired with 3-4 ft antennas
	43 = Az Travel @ 8°/s, El Travel @ 3°/s, El torque 100 ft-lbs, 160 lb payload (including Ctrweights.) Typically paired with 3-4 ft antennas
MODEL	
	LA-360MPT = LinkAlign-360MPT (See motor drives and payload section for positioner travel range info)

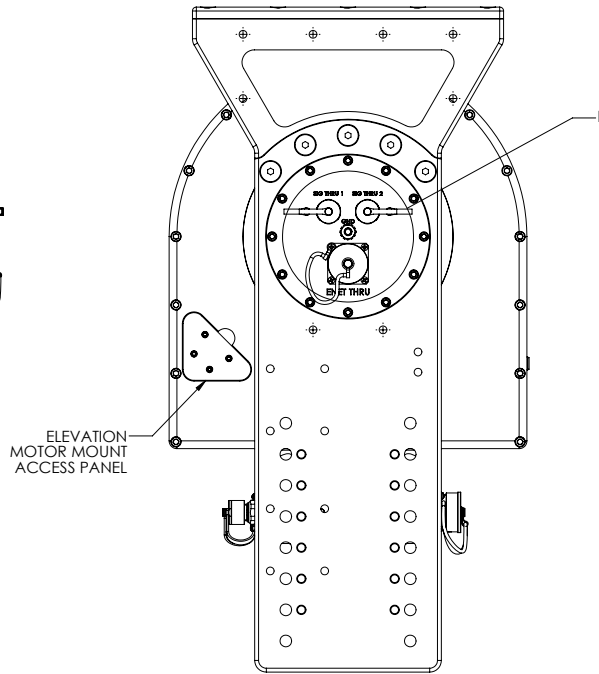
SYMBOL KEY <input type="checkbox"/> NOTE <input type="checkbox"/> PL ITEMS PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF QPAR ANTENNAS USA, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NEXTMOVE TECHNOLOGIES IS PROHIBITED. QPAR ANTENNAS USA, LLC San Diego, CA 92160 www.qparusa.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	DRAWN: C. CHEYNE 2019-02-06 CHECKED: S. CHEYNE 2019-02-06 ME APPR: S. CHEYNE 2019-02-06 EE APPR:	QPAR ANTENNAS USA, LLC TITLE: LINKALIGN-360MPT-40 INTERFACE CONTROL DRAWING	
	THIRD ANGLE PROJECTION DO NOT SCALE DRAWING	PART NO. SEE TABLE I	SIZE DWG. NO. C ICDN900607	REV E
	SCALE: 1:3		SHEET 1 OF 6	
	SHEET 1 OF 6			



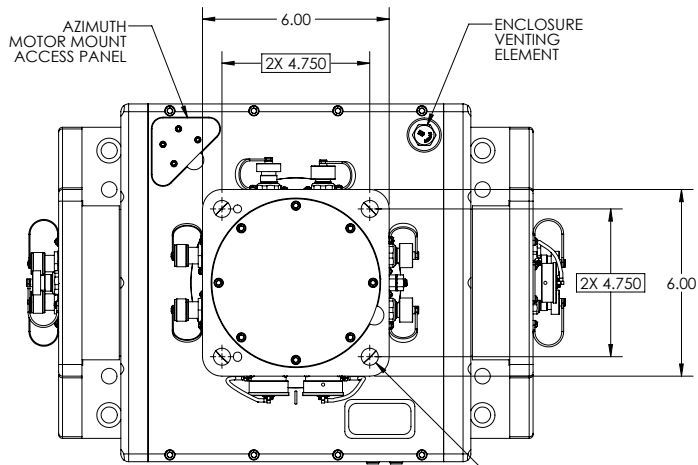
SIZE DWG. NO.
C ICDN900607
 SCALE: 1:3 SHEET 2 OF 6



FRONT VIEW

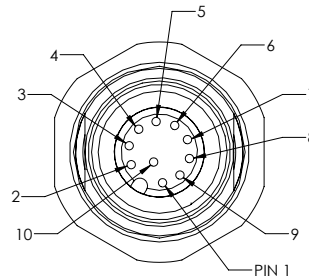


RIGHT VIEW
VIEW B-B
SHEET 2
ZONE A-1



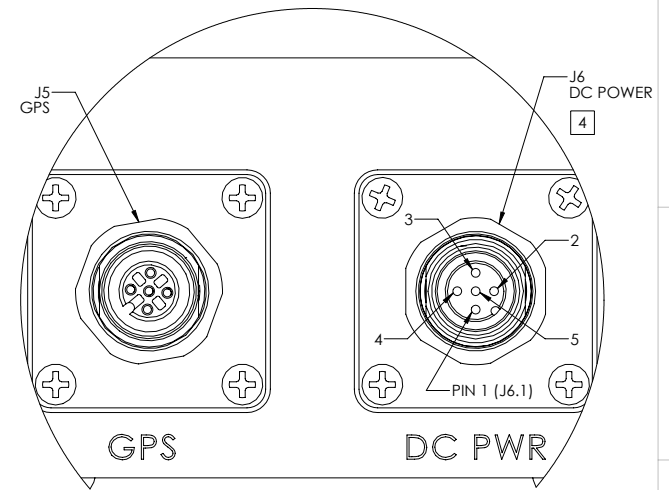
BOTTOM VIEW
TABLE TOP MOUNTING HOLES
NEXTMOVE TYPE 4.750-P INTERFACE

14



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

17 18

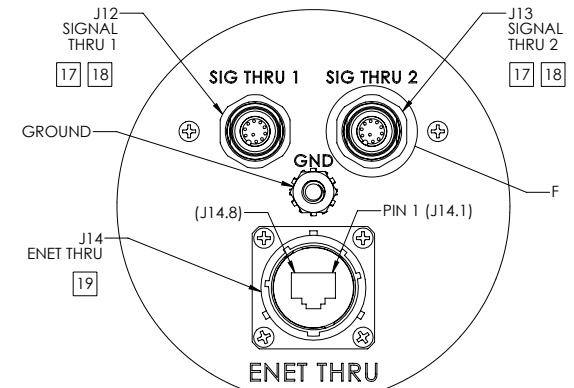


CONNECTORS SHOWN FROM MATING SIDE
J5 USED FOR NEXTMOVE GPS OR OPTIONAL GHU ACCESSORY
J6 MATES WITH TURCK P/N RK 4.5T-* (*LENGTH IN METERS)

DETAIL C
SCALE 2 : 1

FRONT VIEW, AZIMUTH BASE CONNECTORS
SHOWN WITHOUT CONNECTOR CAPS

SEE TABLE V FOR J6 DC POWER 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

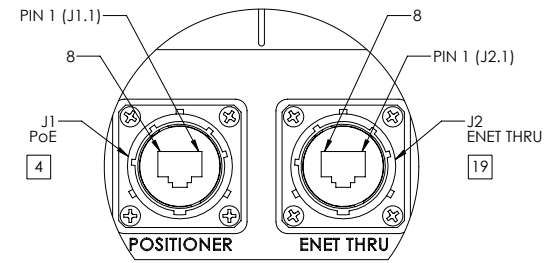
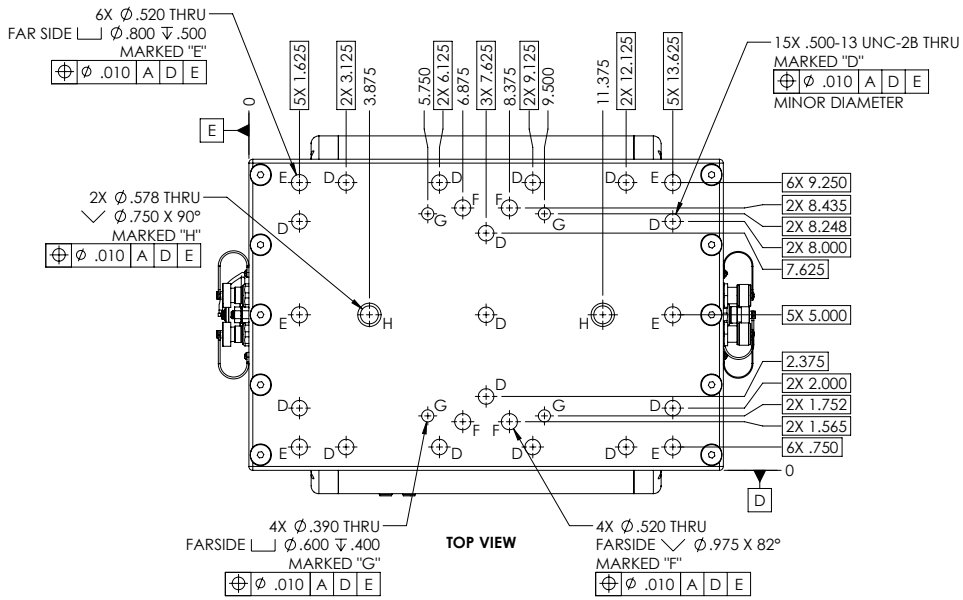
DETAIL D
SCALE 1 : 1

RIGHT VIEW, ELEVATION PANEL CONNECTORS
SHOWN WITHOUT CONNECTOR CAPS

SEE TABLE VI FOR J12, J13 & J14 PASS THRU CONNECTOR PINOUT DETAILS

SIZE DWG. NO.
C ICDN900607

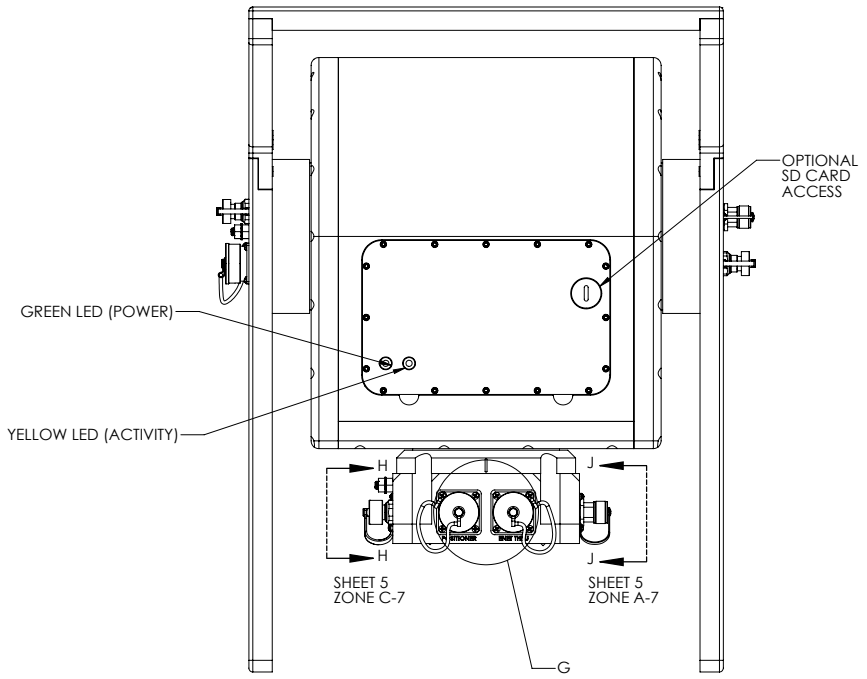
SCALE: 1:3 SHEET 3 OF 6



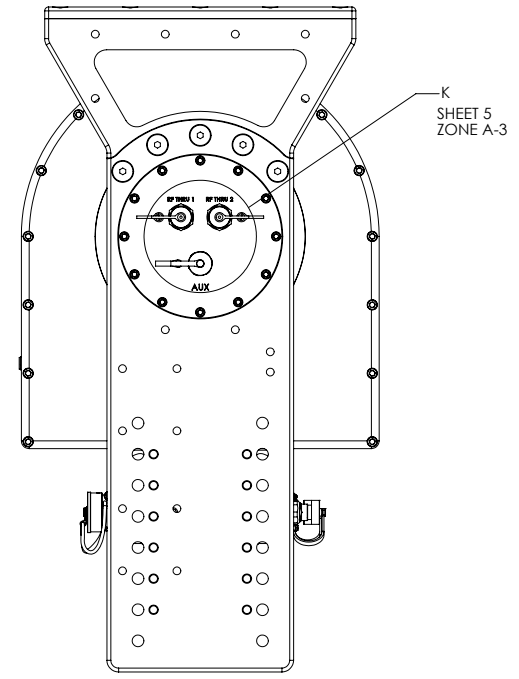
CONNECTORS SHOWN FROM MATING SIDE
 J1 & J2 MATES WITH AMPHENOL P/N RJF6B

DETAIL G
 SCALE 1:1

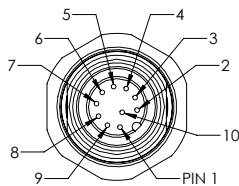
REAR VIEW, AZIMUTH BASE CONNECTORS
 SHOWN WITHOUT PROTECTIVE CAP
 SEE TABLE III FOR J1 PoE CONNECTOR PINOUT DETAILS
 SEE TABLE VI FOR J2 PASS THRU CONNECTOR PINOUT DETAILS



REAR VIEW
 VIEW E-E
 SHEET 3
 ZONE C-4

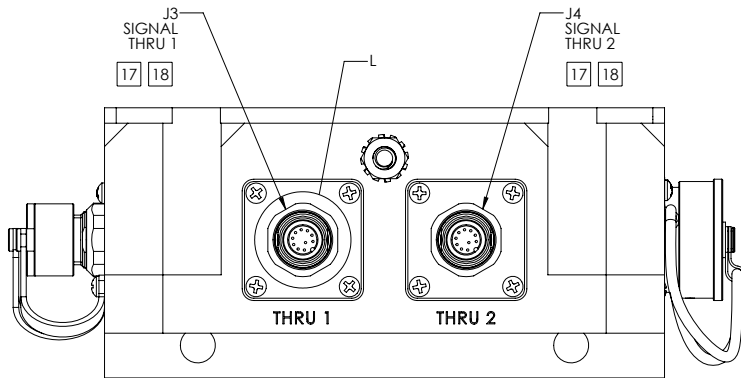


LEFT VIEW



DETAIL L
SCALE 2 : 1
J3 & J4 PASS THRU CONNECTOR PINOUT DETAILS
2 PLACES

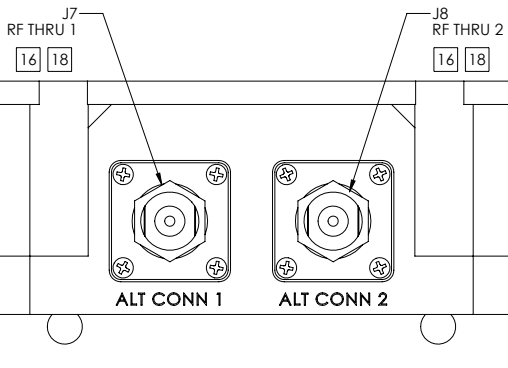
17 18



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

SECTION H-H
SCALE 1 : 1
SHEET 4
ZONE A-8

RIGHT VIEW, AZIMUTH BASE CONNECTORS
SHOWN WITHOUT CONNECTOR CAPS
SEE TABLE VI FOR J3 & J4 PASS THRU CONNECTOR PINOUT DETAILS



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

SECTION J-J
SCALE 1 : 1
SHEET 4
ZONE A-7

LEFT VIEW, AZIMUTH BASE CONNECTORS
SHOWN WITHOUT CONNECTOR CAPS
SEE TABLE VI FOR J7 & J8 PASS THRU CONNECTOR PINOUT DETAILS

TABLE III (PoE CONNECTOR) 4

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)

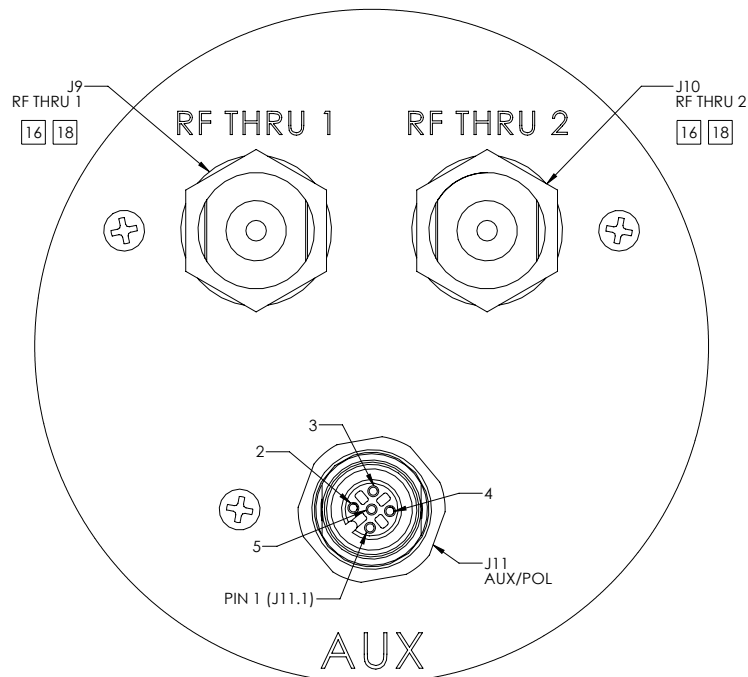
CONNECTOR DESIGNATION	FUNCTION
J11.1	GND
J11.2	+/-12 VDC MOTOR
J11.3	+/-12 VDC MOTOR
J11.4	POT WIPER
J11.5	+3.3V

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

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



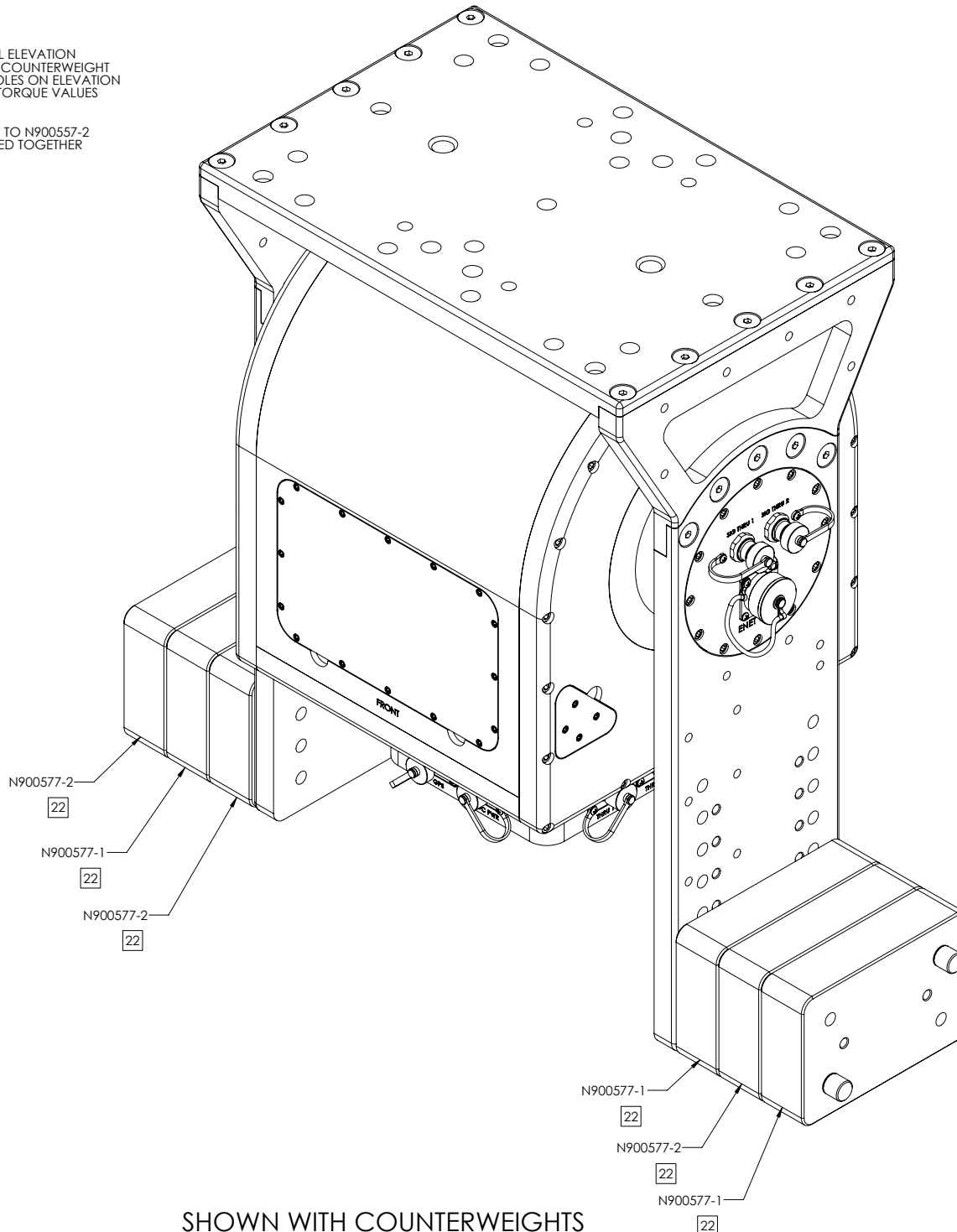
CONNECTORS SHOWN FROM MATING SIDE
J9 AND J10 MATES WITH N-TYPE MALE CONNECTOR
STANDARD RF PASS THRU - DC-3GHz
J11 USED FOR NEXTMOVE OPTIONAL CROSS ELEVATION ACCESSORY

DETAIL K
SCALE 2 : 1
SHEET 4
ZONE C-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

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