QLA-15LPT-40



AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LINE OF SIGHT



The QLA-15LPT-40 is an antenna positioner designed from the ground up to automatically maintain microwave line of sight communication links for 4-6 ft antennas. Narrow beam antennas often require realignment due to seasonal fading of misalignment caused by wind loading.

The full featured web based user interface provides rapid and accurate antenna realignment. The user interface includes remote signal strength monitoring and auto peaking tools that can automatically trigger antenna realignment based on radio signal strength.

The QLA-15LPT-40 is typically paired with 4-6 ft antennas, payloads up to 300 lbs (136.1 kg), and offers +/-15° of azimuth and elevation range. Download the Interface Control Drawing (ICD) for more details.

	TECHNICAL SPECIFICATIONS – QLA-15LPT-40
Power	48V DC
Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize
Positioner Travel	
Azimuth	15° (+/-7.5°)
Elevation	15° (+/-7.5°)
Positioner Drive Rate	
Azimuth	Variable, up to 0.5°/sec no load
Elevation	Variable, up to 0.5°/sec no load
Temperature	
Operational	-22 to 140°F (-30 to 60°C)
Survival	-40 to 158°F (-40 to 70°C)
Az / El Repeatability	+/-0.05°
Torque	
Operational (both axes)	500 ft-lbs (677.9 Nm)
Survival (both axes)	1000 ft-lbs (1355.8 Nm)
Payload	300 lbs (136.1 kg)
Dimensions	Height: 37.0" (94.0 cm), Width: 37.0" (94.0 cm), Depth: 22.5" (57.2 cm)
Weight	130 lbs (59.0 kg)
Mounting Interface	Clamps standard to a 4.5" dia mast (11.4 cm)
Antenna Mount Options	Any commercial antenna between 4 and 6 feet in diameter
Communication Interface	
User Interfaces	Web based hosted internal to unit, Pelco I
Ethernet	10/100 Ethernet
Serial	RS-485
EV G	Specifications subject to change w

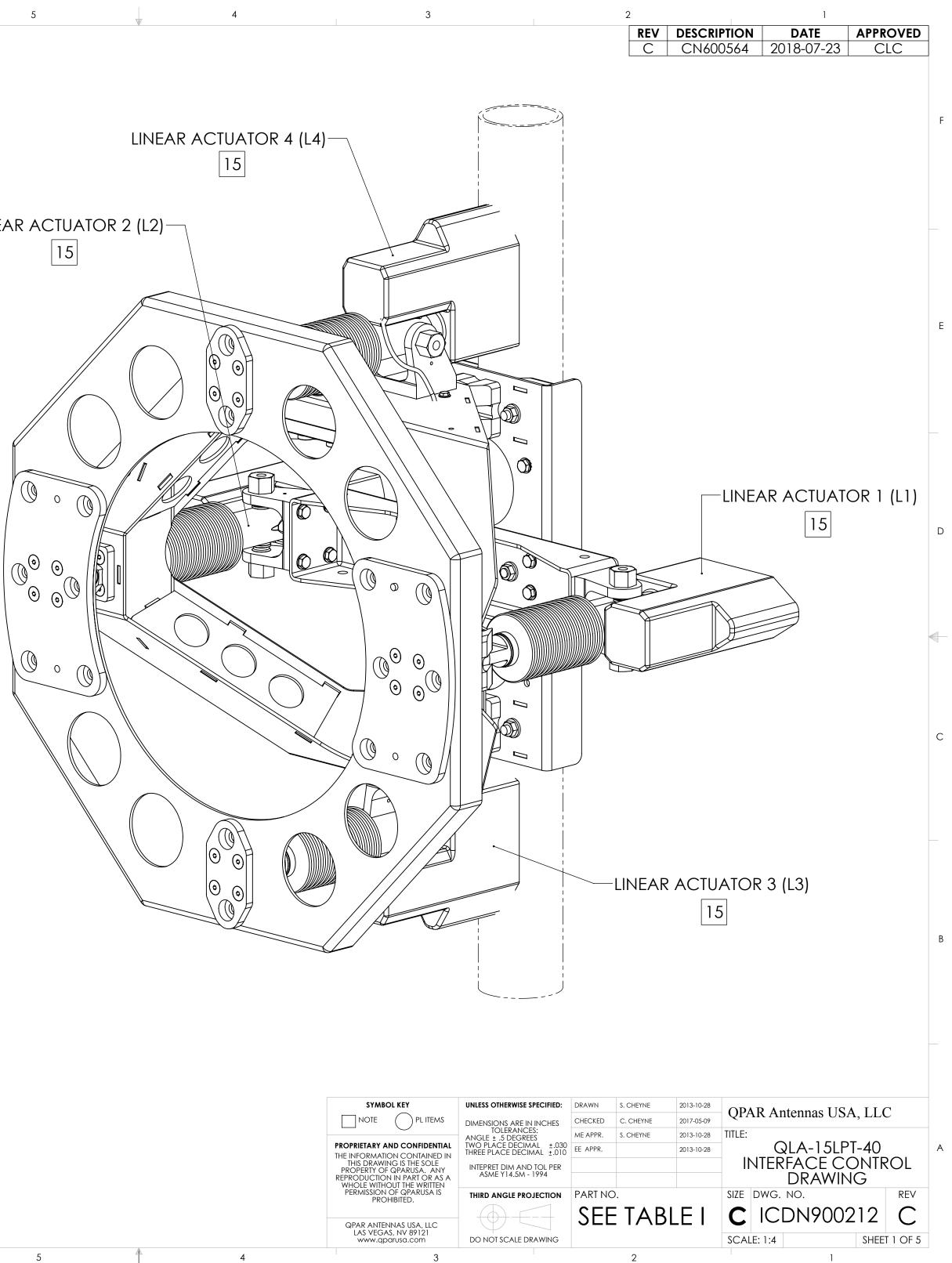
Q-PAR Antennas USA, LLC – <u>sales@gparusa.com</u> – Tel: 702-208-9973 – Fax: 702-208-9984

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NOTES: UNLESS OTHERWIS	SE SPECIFIED		
	IGURABLE OPTIONS PER TABLE I. F I SHOWN THROUGHOUT THIS DRA		
2. USE INTERFACE CON	ITROL DRAWING IN CONJUNCTIO	on with datasheet n500109	
3. INPUT POWER SHALL	BE NOMINALLY 48VDC (45VDC 1	10 55VDC)	
4. HARD COAT ANNOE HARDWARE	DIZE ALUMINUM CONSTRUCTION	WITH STAINLESS STEEL	
5. 15° (+/-7.5°) AZIMUTH	H TRAVEL WITH 0.25°/SEC DRIVE R	ATE	
6. 15° (+/-7.5°) ELEVATI	ON TRAVEL WITH 0.25°/SEC DRIVI	ERATE	LINEAR ACTU
722 TO 140°F (-30 TO TO 70°C) NON-OPEI	60°C) OPERATIONAL TEMPERATU RATIONAL TEMPERATURE RANGE	RE RANGE40 TO 158°F (-40	1.
8. +/-0.1° PAN/TILT REPI	EATABILITY		
 65 MPH (104KPH) OF 124 MPH (200 KPH) S RADOME 	PERATIONAL WIND SPEED WITH G SURVIVAL WIND SPEED. ASSUMES	USTS UP TO 80 MPH (128 KPH). 6' DIAMETER DISH WITH	
10 39" (99 cm) HIGH X 3 CENTER OF 4.5" DIAN	39" (99 cm) WIDE X 22" (56 cm) D METER MOUNTING POLE	EEP. DEPTH MEASURED TO	
11. WEIGHT APPROXIMA	TELY 130 LBS		
12 mounts to standa Shown	ARD 4.5" 0.D. POLE (NOT INCLUDE	D) WITH 3 SUPPLIED U-BOLTS	
WITH 6' DIAMETER CO	IOWN CONTAINS MOUNTING HO OMSCOPE ANTENNA PART NUMB ADAPTER MAY BE REQUIRED TO I	ers uhx6-59W-p3A/b and	
(NOT INCLUDED) TO ENSURE THAT THE STR	RUT ON EITHER SIDE OF THE MOUN PREVENT POSITIONER FROM TWIS RUTS ARE INSTALLED SUCH THAT THE D THE ANGLE SHOWN	STING ON MOUNT FROM WINE	
	BLE +48VDC AND GROUND CORI ETAIL E, SHEET 3. L1, L2, L3, AND NEAR ACTUATORS (CABLES AND	L4 INTERFACE WITH	
16 APPLY LOCTITE THRE	ADLOCKER RED 271 TO THREADS	OF INDICATED FASTENERS	Q o
17 TORQUE INDICATED	1/2-13 FASTENERS TO 40 FT-LBS		
	LINEAR ACTUATORS. ENSURE ALL ORS AS TO NOT DAMAGE THE PO		-
MEASURED FROM TH	Y 0.3" (0.8 cm) IN THE Y-DIRECTIO HE HORIZONTAL CENTER OF THE F cm) IN THE Z-DIRECTION MEASUF NTING POLE.	OSITIONER. CENTER OF	

	TABLE I	
BUILDING A PART NUMBER STANDARD OPTIONS		
LA-15LPT - 40	100 - 100 < <example< th=""></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 POWER CABLE STANDARD LENGTHS (CONNECTOR BY FLYING LEAD) 050 = 50 ft 100 = 100 ft 150 = 150 ft 200 = 200 ft	
	XXX = Custom length in feet CUSTOM CONFIGURATION = Standard options - leave blank	
	40 = Az 500 ft-lbs @ 0.5°/s, El 500 ft-lbs @ 0.5°/s, 300 lb payload. Typically paired with 4-6 ft antenna	
	MODEL LA-15LPT = LinkAlign-15LPT (+/-7.5° azimuth, +/-7.5° elevation)	

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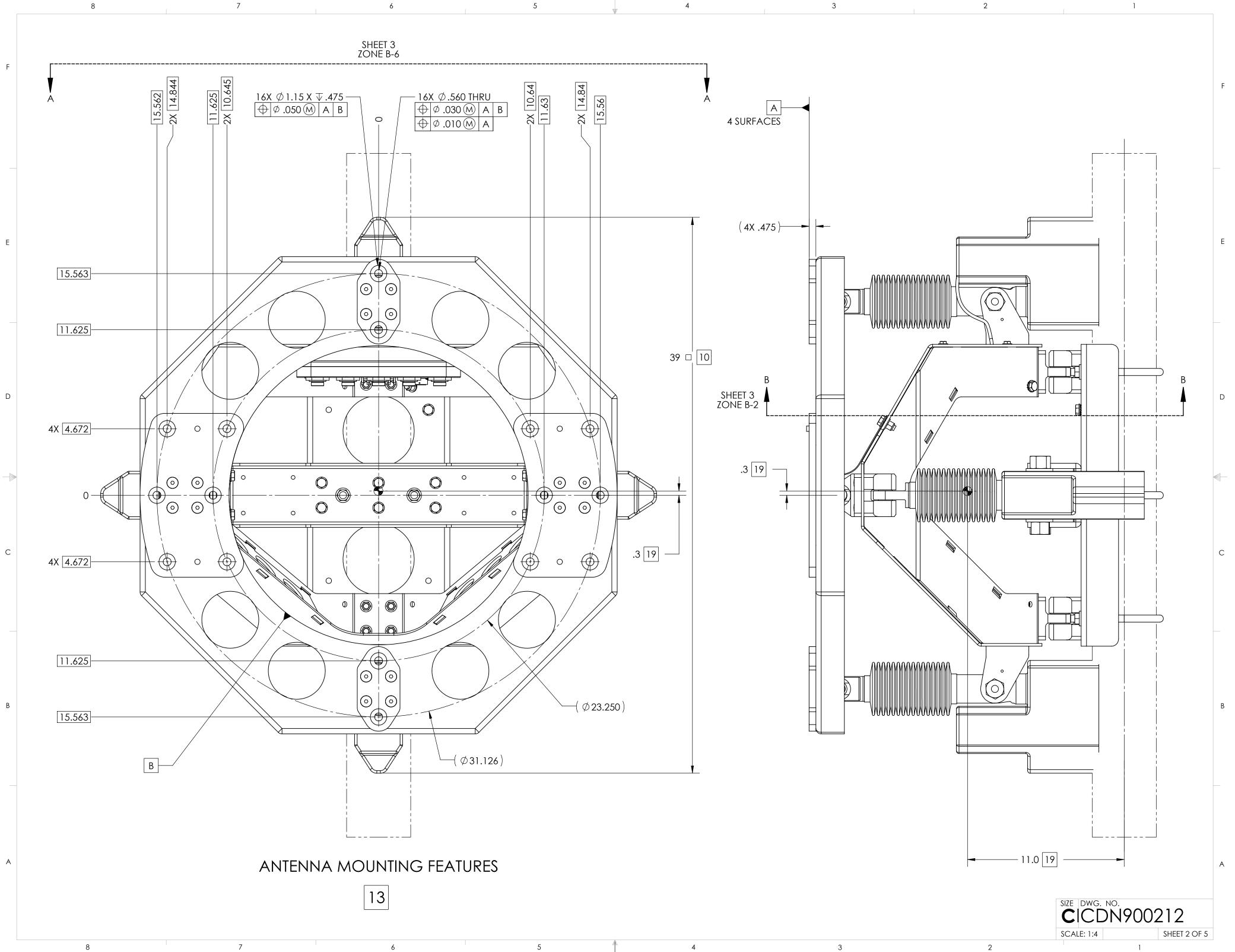
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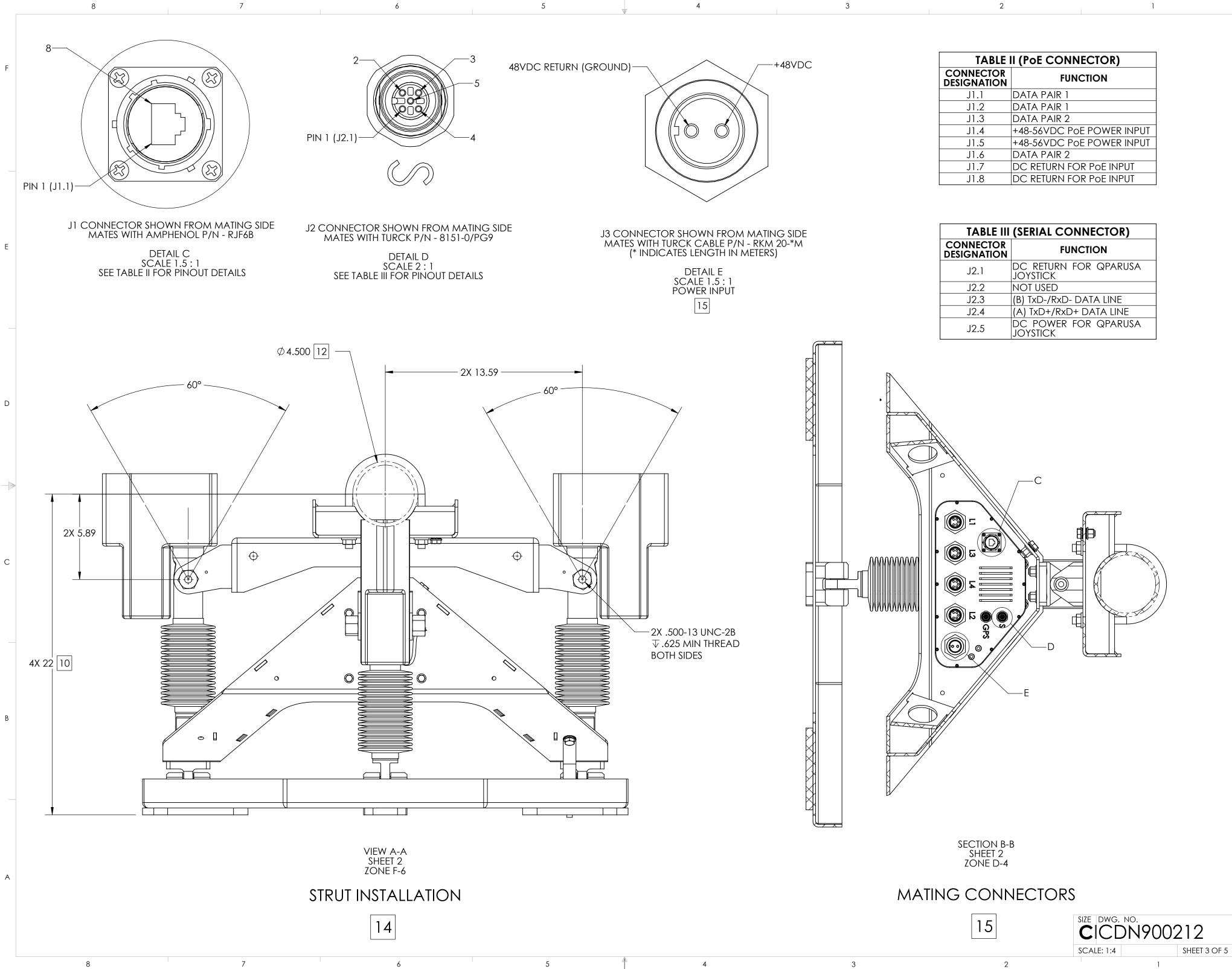


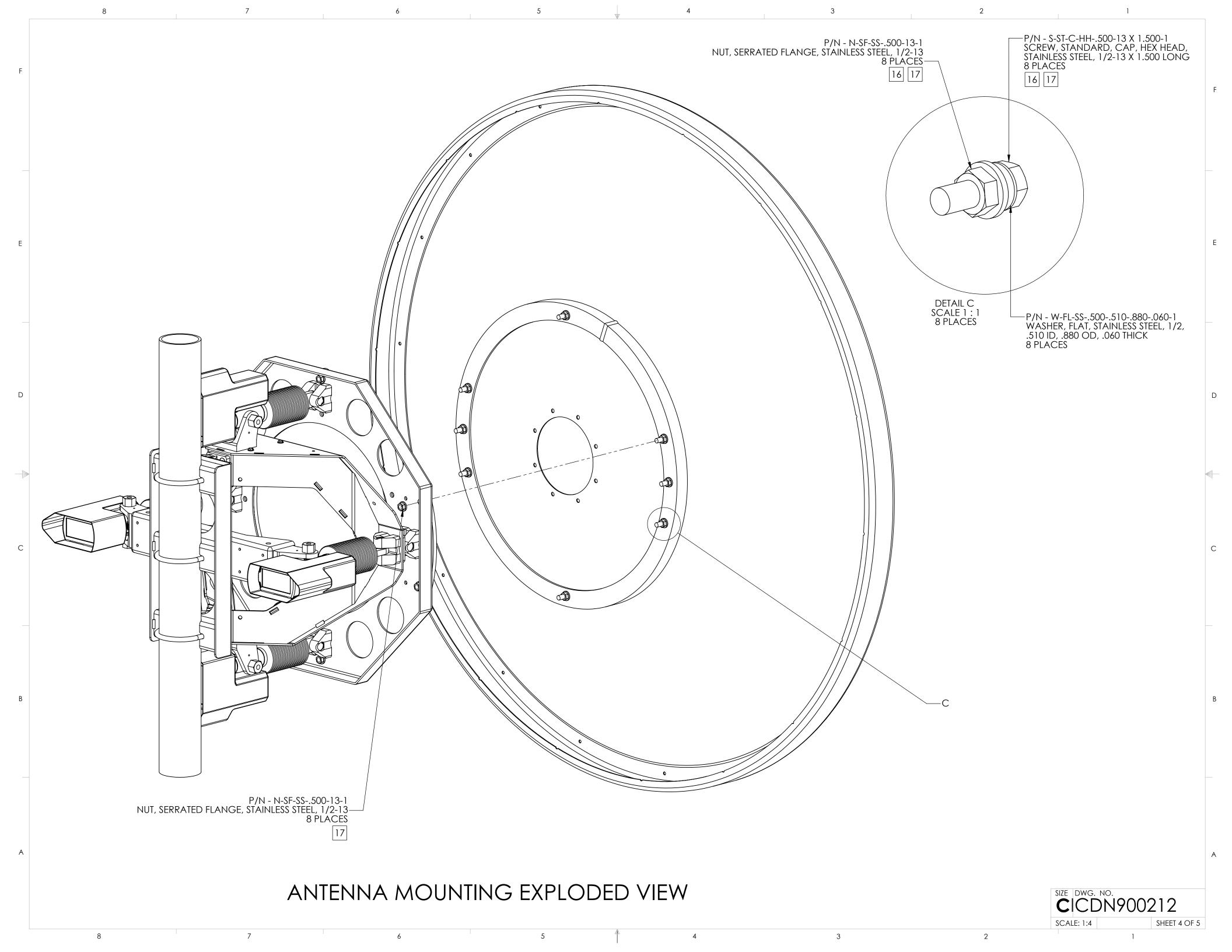
TABLE II (POE CONNECTOR)				
CONNECTOR DESIGNATION	FUNCTION			
J1.1	DATA PAIR 1			
J1.2	DATA PAIR 1			
J1.3	DATA PAIR 2			
J1.4	+48-56VDC PoE POWER INPUT			
J1.5	+48-56VDC PoE POWER INPUT			
J1.6	DATA PAIR 2			
J1.7	DC RETURN FOR POE INPUT			
J1.8	DC RETURN FOR POE INPUT			

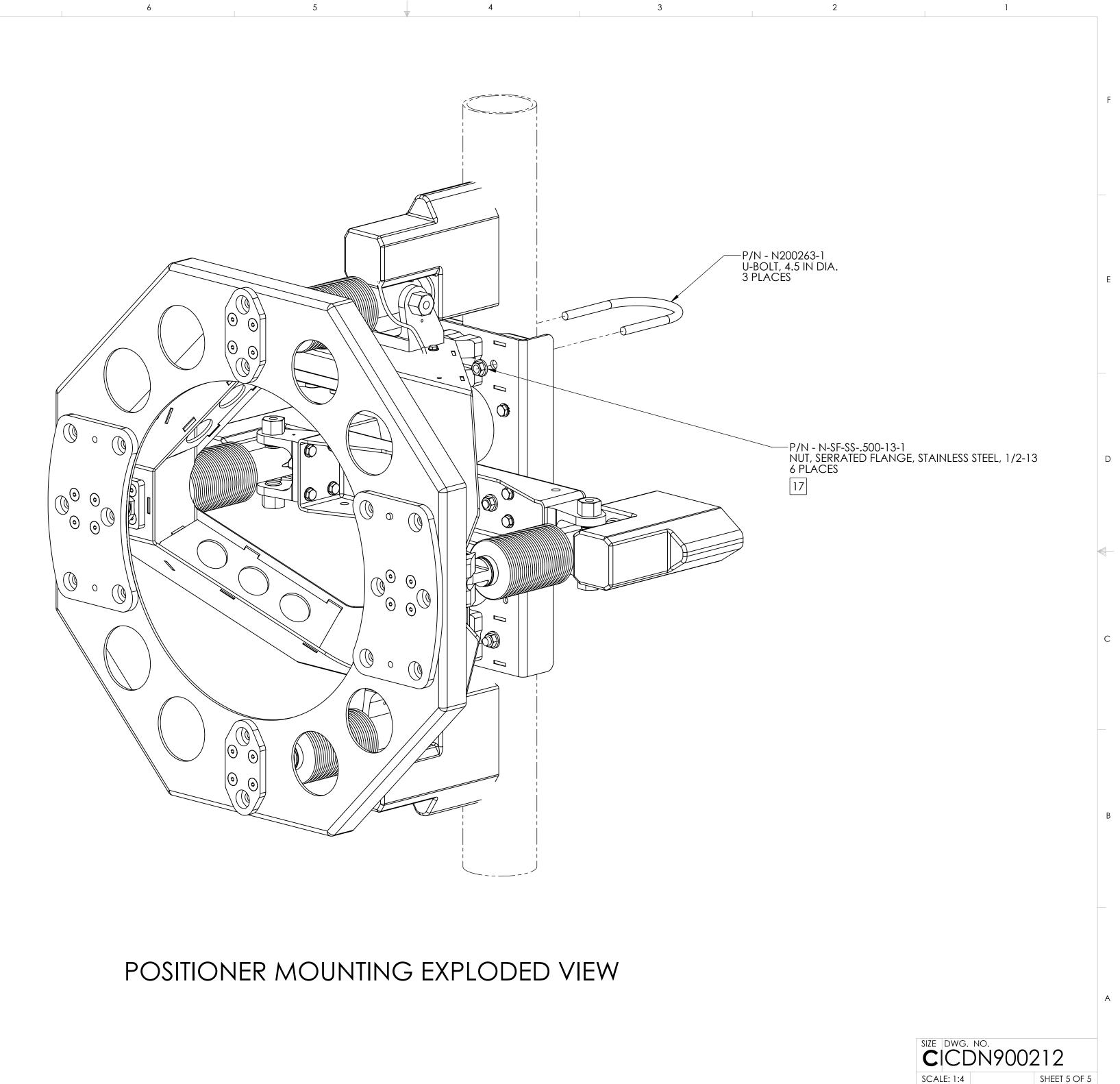
TABLE III (SERIAL CONNECTOR)				
CONNECTOR DESIGNATION	FUNCTION			
J2.1	dc return for qparusa Joystick			
J2.2	NOT USED			
J2.3	(B) TxD-/RxD- DATA LINE			
J2.4	(A) TxD+/RxD+ DATA LINE			
J2.5	DC POWER FOR QPARUSA JOYSTICK			

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