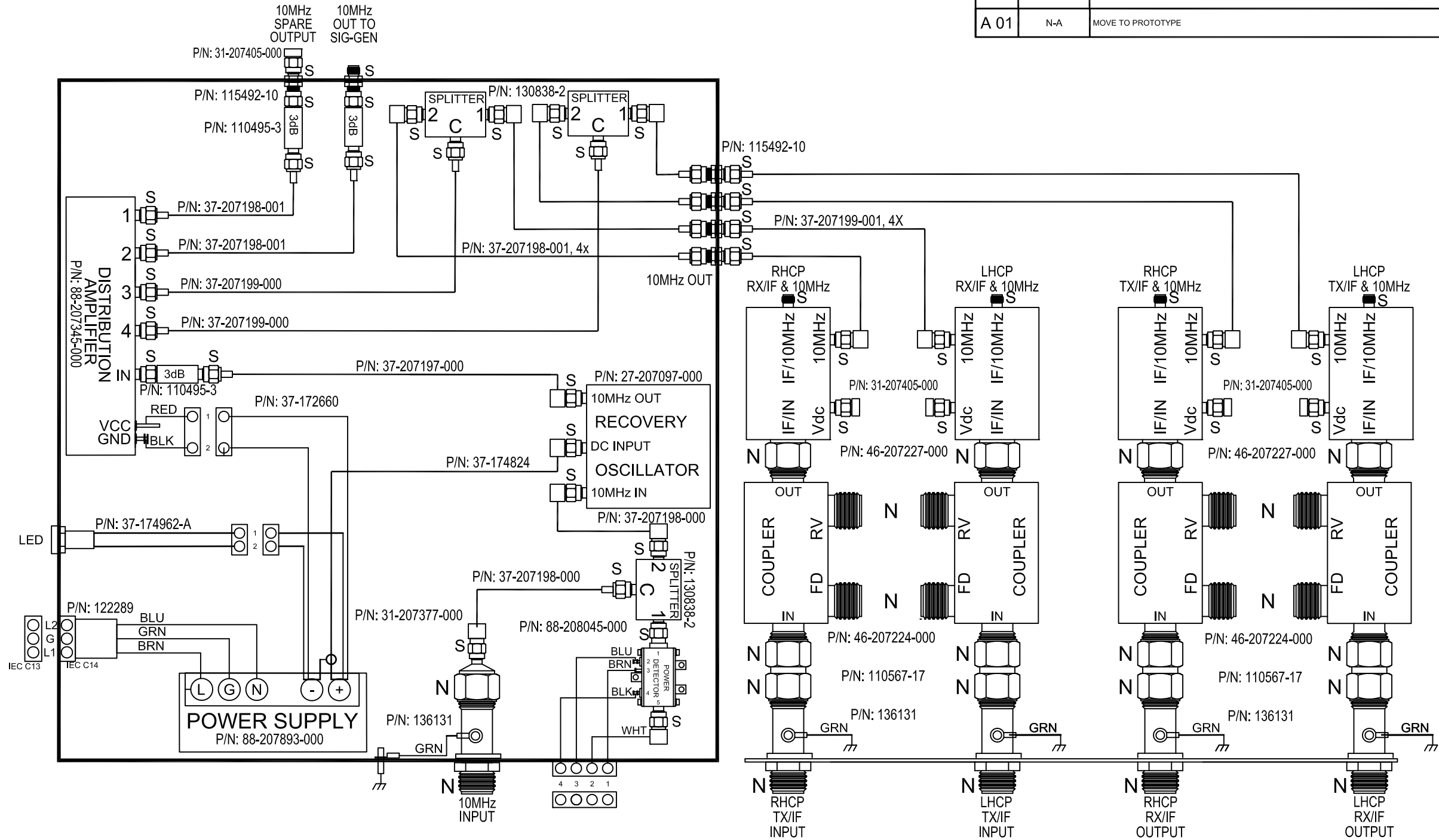


VERSION HISTORY				
VER	DCO	DESCRIPTION	DATE	BY
A 01	N-A	MOVE TO PROTOTYPE	12/4/2020	JWM



ASSEMBLY NOTES:

1. TERMINATE ALL WIRE WITH PIN TERMINALS BEFORE INSTALLING INTO TERMINAL BLOCKS USING TOOL 90143 FROM WEIDMULLER.
2. TERMINATE ALL WIRE WITH RIGHT ANGLE QUICK TERMINALS BEFORE CONNECTING TO SNAP IN OUTLET USING TOOL 118629 FROM MORRIS TOOLS CAT # 5448.
3. TERMINATE ALL WIRE WITH RING TERMINALS BEFORE CONNECTING TO CIRCUIT BREAKERS USING TOOL 30-502 FROM IDEAL.

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DRAWN BY: JWM		COBHAM Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986	
DRAWN DATE: 11/09/2020			
APPROVED BY:		TITLE: SCHEMATIC, IF INTERFACE & 10MHz DISTRIBUTION ASSY	
APPROVED DATE:			
SIZE B	SCALE: N/A	DRAWING NUMBER 93-174825	VER A
FIRST USED: GLOBALSTAR 800W		SHEET NUMBER	1 OF 1

ORACLE BOM Explosion Report

Item Number: 62-173278
Description: CIRCUIT BREAKER ASSY, 3 PHASE 32 AMP, T6000, 800W
Item Revision: A.04 ECO-00039316
Date as of: 03/24/2021 06:36:42 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM N
0	REF	pcs	97-173278	A.01 ECO-00039305	CIRCUIT BREAKER ASSEMBLY, T6000 800W	
1	1	ea	41-207876-0733728	MCO-00051801	ENCLOSURE, ALTECH/SPELSBERG MODEL AK-F 28 Plus	
2	1	ea	41-207876-733820	MCO-00051937	BLANK ENCLOSURE PANEL, NO NOCKOUTS, AK3-FL00	
3	1	ea	41-207876-733821	MCO-00051937	ENCLOSURE PANEL, 1-M50/M40, 2-M40/32, 2-M20, N-OUT	
5	4	ea	137751	MCO-00012115	DIN RAIL, END STOP, 6mm, ASIUD1B	
6	2	pcs	88-207388-000	MCO-00018973	Cord Grip Kit, 0.28" - 0.81" Cable OD.	
7	1	ea	109258-10	MCO-00047507	RELIEF, STRAIN	
8	1	ea	131302-1	MCO-00012114	LOCKNUT, CONDUIT, 1/2", SEALING	
9	2	pcs	41-174946-A	02 ECO-00038465	PLATE, ENCLOSURE CIRCUIT BREAKER	
10	1	ea	33-207335-032	MCO-00051967	GF CIRCUIT BREAKER, 3 POLE +N, 32 AMP, 277V, 300mA	
11	2	pcs	33-207206-000	MCO-00034157	CIRCUIT BREAKER, DPDT-25AMP-480VAC-D CURVE, UL1077	
12	2	pcs	130834-6	MCO-00016171	CIRCUIT BREAKER, DIN RAIL MOUNT, TWO POLE, 10 AMP	
13	1	ea	130834-3	MCO-00052245	CIRCUIT BREAKER, DIN RAIL MOUNT, TWO POLE, 2 AMP	
14	1	ea	46-207284-000	MCO-00051801	MODULAR TERMINAL BLOCK, 4 POLE, 13 POS, 40 A, 400V	
15	1	ea	46-207291-G12	MCO-00052578	GROUND BUSS BAR, DINRAIL, 12CH, 500V, 63A, GREEN	
16	1	ea	52-207196-000	MCO-00053288	LOCKNUT, M50 x 1.5, NYLON CONDUIT	
18	3	ea	46-207289-000	MCO-00051967	SPLIT CORE CT AMP SENSOR, 50 AMP, 14/2 AWG WIRES	
19	1	ea	20-207114-024	MCO-00051843	POWER SUPPLY, 24VDC, 60WATT, DIN RAIL	
20	1	ea	33-207336-000	MCO-00052391	SPD, 3CH 277V, 50kA, 25ns, DIN RAIL	
21	2	ea	141222-72	A.01 ECO-00038646	POWER CORD ASSY, AC PWR TERM. TO C13, 72IN	
22	1	pcs	37-174947-A	03 ...	POWER CORD ASSY, CIRCUIT BREAKER OUTLET ...	

Created By: Mike Needham
Create Time: 03/24/2021 06:37:52 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-173278
Description: CIRCUIT BREAKER ASSY, 3 PHASE 32 AMP, T6000, 800W
Item Revision: A.04 ECO-00039316
Date as of: 03/24/2021 06:36:42 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
				...ECO-00038974	...2X5 APP	
23	4	ft	41-207892-000	MCO-00053161	FLEX CONDUIT, CRUSH-RESISTANT1.5"	
24	1	ea	41-207893-000	MCO-00053161	Straight Adapter, Flex Conduit 1-1/2 Female x M50	
25	40	ea	121899-12	MCO-00042451	WIRE PIN TERMINAL, CRIMP, 12 AWG, ORG or GRY	
26	12	ea	121899-18	MCO-00012115	WIRE PIN TERMINAL, CRIMP, 18 AWG, RED	
27	4	ea	121899-22	MCO-00034863	WIRE PIN TERMINAL, CRIMP, 22 AWG, TRQS	
28	78	in	113343-072	MCO-00012114	WIRE, 22G, COPPER STRAND, RED, UL1061	
29	78	in	113343-070	MCO-00012114	WIRE, 22G, COPPER STRAND, BLK, UL1061	
30	50	in	32-127763-029	MCO-00029852	WIRE, HOOKUP, 12 AWG, WHT, UL1015, 65/30, 600V	
31	4.5	ft	32-127763-025	MCO-00029853	WIRE, HOOKUP, 12 AWG, GRN, UL1015, 65/30, 600V	
32	12.5	ft	32-127763-020	MCO-00029854	WIRE, HOOKUP, 12 AWG, BLK, UL1015, 65/30, 600V	
33	8.0	ft	32-127763-022	MCO-00051491	WIRE, HOOKUP, 12 AWG, RED, UL1015, 65/30, 600V	
34	150	in	127763-026	MCO-00012113	WIRE, 12AWG, COPPER STRAND, BLU, UL1015/600V	
35	14	in	127763-0554	MCO-00012113	WIRE,18AWG,COPPER STRAND,GRN / YEL, UL1015/600V	
36	96	in	127763-050	MCO-00012113	WIRE, 18AWG, COPPER STRAND, BLK, UL1015/600V	
37	96	in	127763-056	MCO-00012113	WIRE, 18AWG, COPPER STRAND, BLU, UL1015/600V	
38	76	in	127763-059	MCO-00012113	WIRE, 18AWG, COPPER STRAND, WHT, UL1015/600V	
39	76	in	32-127763-052	MCO-00053241	WIRE, 18AWG, COPPER STRAND, RED, UL1015/600V	
44	1	pcs	41-175193-A	05 ECO-00039368	COVER, CIRCUIT BREAKER,PWR OUTPUT CABLE, T6000 800W	
45	1	pcs	41-175636-A	01 ECO-00038797	PLATE RETAINER,INPUT,CIRCUIT BREAKER, 800W	

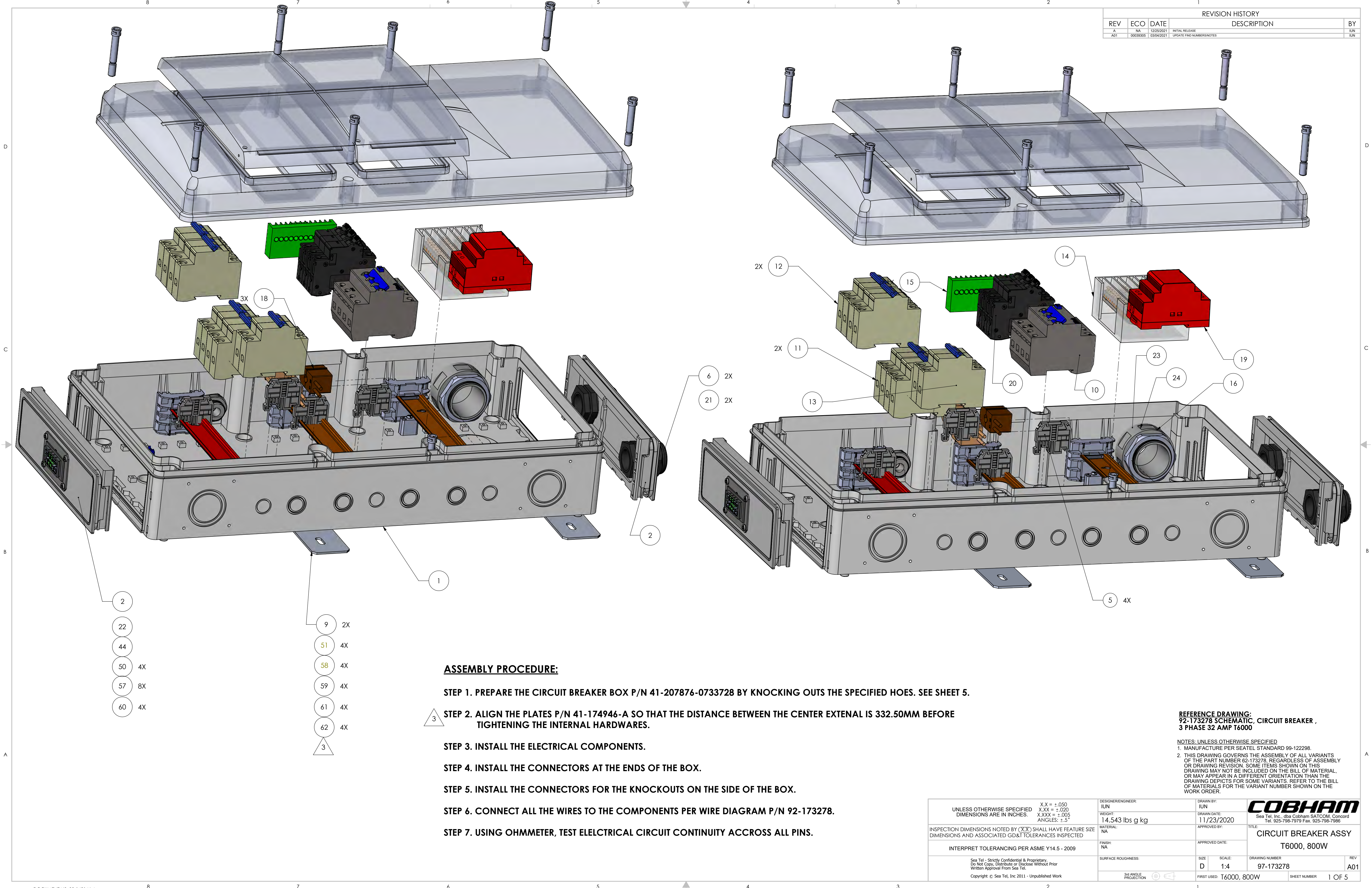
Created By: Mike Needham
Create Time: 03/24/2021 06:37:52 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-173278
Description: CIRCUIT BREAKER ASSY, 3 PHASE 32 AMP, T6000, 800W
Item Revision: A.04 ECO-00039316
Date as of: 03/24/2021 06:36:42 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
50	4	ea	119973-117	MCO-00018237	SCREW, SOCKET HD, M4 X 12, SS.	
51	4	ea	119973-135	MCO-00012113	SCREW, SOCKET HD, M6 X 16, SS.	
57	8	ea	53-207184-000	MCO-00051892	M4 FLAT WASHER,THICKNESS=0.4-0.6MM,SSTL	
58	4	ea	131552-150	MCO-00012113	WASHER, FENDER, M6, 18-8 SS. (18MM OD)	
59	4	ea	09C000794	MCO-00013956	M6 LOCK WASHER,11.8MM O.D.,18-8 S.S	
60	4	ea	120089-231	MCO-00012113	NUT, HEX, M4, SS.	
61	4	ea	120089-251	MCO-00047258	NUT, HEX, M6, SS.	
62	4	ea	114580-250	MCO-00050675	WASHER, FLAT, M6, SS.	
		pcs	62-173278	A.04 ECO-00039316	CIRCUIT BREAKER ASSY, 3 PHASE 32 AMP, T6000, 800W	

Created By: Mike Needham
Create Time: 03/24/2021 06:37:52 AM PDT



REVISION HISTORY				
REV	ECO	DATE	DESCRIPTION	BY
A	NA	12/25/2021	INITIAL RELEASE	IUN
A01	00039305	03/04/2021	UPDATE FIND NUMBERS/NOTES	IUN

ASSEMBLY PROCEDURE:

STEP 1. PREPARE THE CIRCUIT BREAKER BOX P/N 41-207876-0733728 BY KNOCKING OUTS THE SPECIFIED HOES. SEE SHEET 5.

STEP 2. ALIGN THE PLATES P/N 41-174946-A SO THAT THE DISTANCE BETWEEN THE CENTER EXTENAL IS 332.50MM BEFORE TIGHTENING THE INTERNAL HARDWARES.

STEP 3. INSTALL THE ELECTRICAL COMPONENTS.

STEP 4. INSTALL THE CONNECTORS AT THE ENDS OF THE BOX.

STEP 5. INSTALL THE CONNECTORS FOR THE KNOCKOUTS ON THE SIDE OF THE BOX.

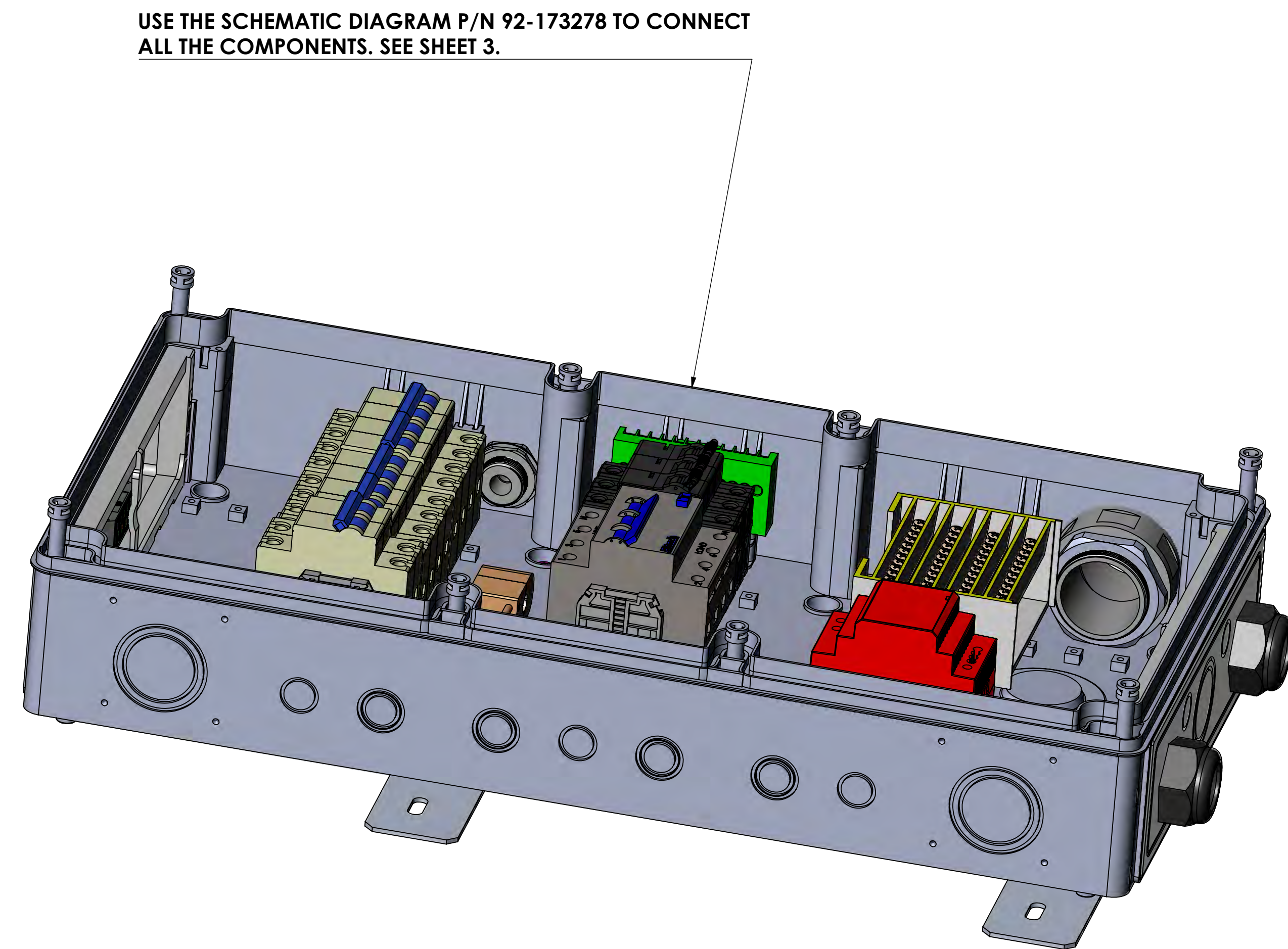
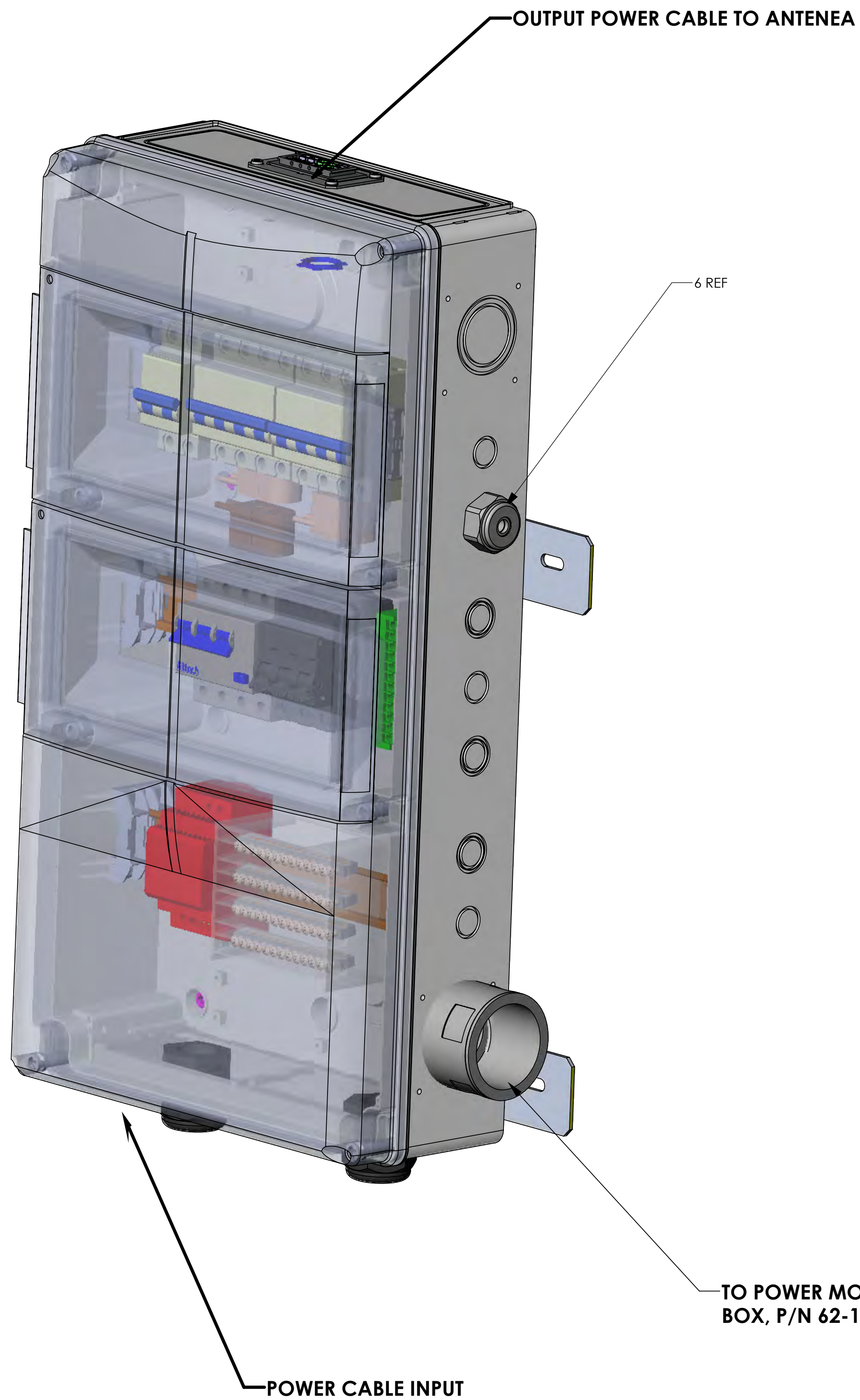
STEP 6. CONNECT ALL THE WIRES TO THE COMPONENTS PER WIRE DIAGRAM P/N 92-173278.

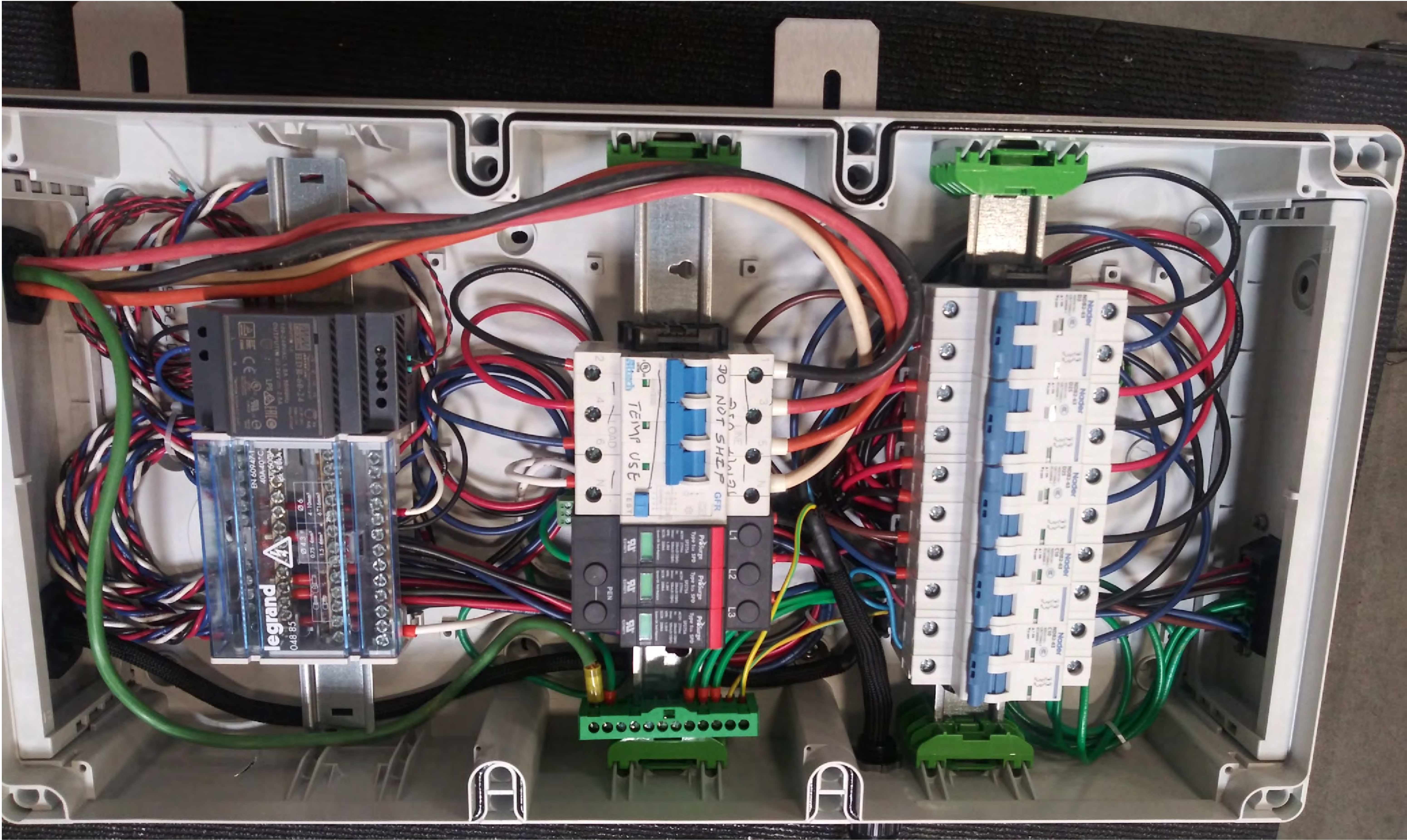
STEP 7. USING OHMMETER, TEST ELECTRICAL CIRCUIT CONTINUITY ACCROSS ALL PINS.

REFERENCE DRAWING:
92-173278 SCHEMATIC, CIRCUIT BREAKER ,
3 PHASE 32 AMP T6000

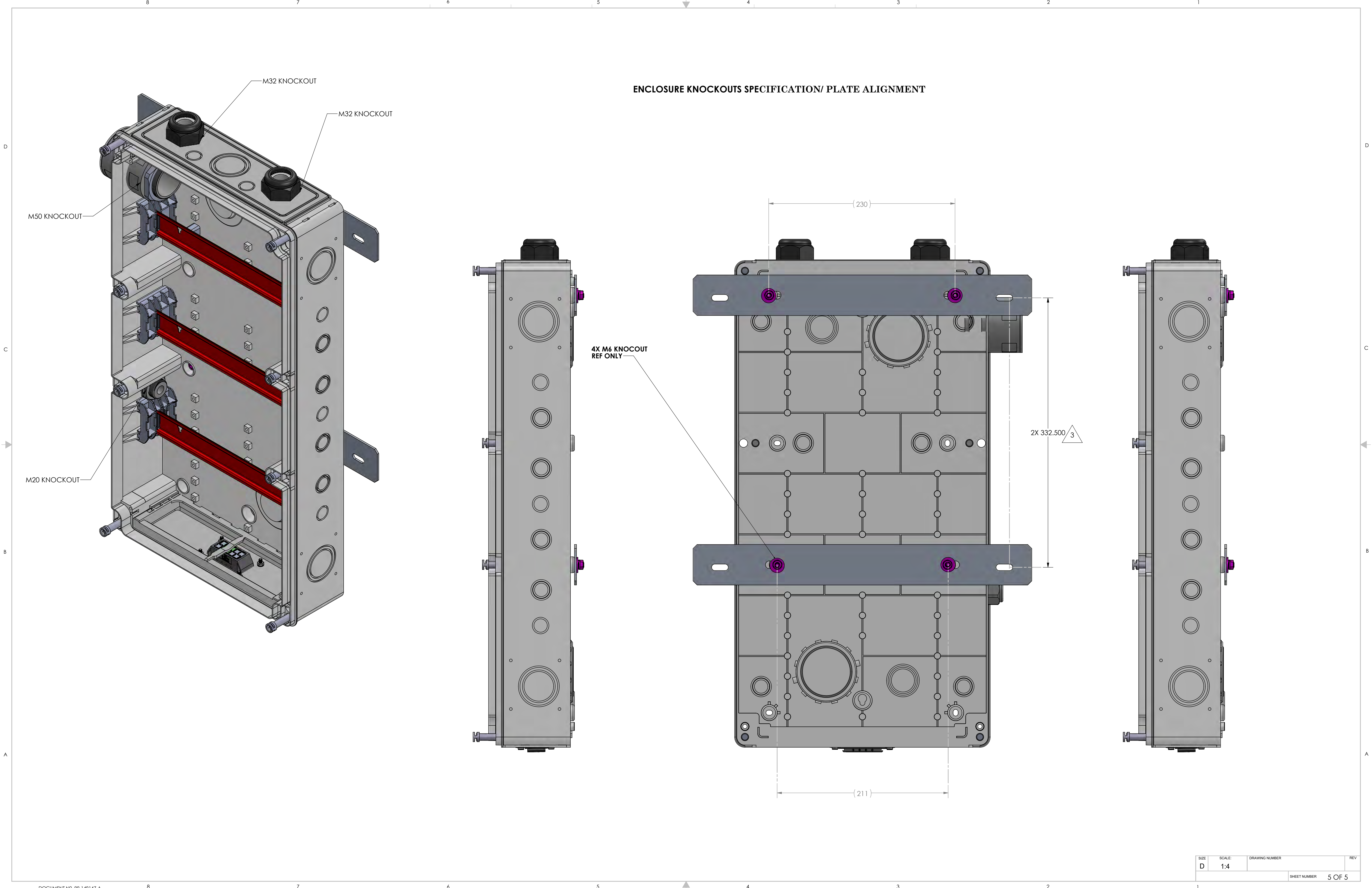
NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-173278, REGARDLESS OF ASSEMBLY OR DRAWING REVISION. SOME ITEMS SHOWN ON THIS DRAWING MAY NOT BE INCLUDED ON THE BILL OF MATERIAL, OR MAY APPEAR IN A DIFFERENT ORIENTATION THAN THE DRAWING DEPICTS FOR SOME VARIANTS. REFER TO THE BILL OF MATERIALS FOR THE VARIANT NUMBER SHOWN ON THE WORK ORDER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5° INSPECTION DIMENSIONS NOTED BY (XX) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED INTERPRET TOLERANCING PER ASME Y14.5 - 2009	DESIGNER/ENGINEER: IUN WEIGHT: 14.543 lbs g kg MATERIAL: NA FINISH: NA	DRAWN BY: IUN DRAWN DATE: 11/23/2020 APPROVED BY:	COBHAM Sea Tel, Inc. dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986 TITLE CIRCUIT BREAKER ASSY T6000, 800W DRAWING NUMBER 97-173278
	SURFACE ROUGHNESS: 3rd ANGLE PROJECTION	APPROVED DATE: SIZE D SCALE: 1:4 FIRST USED: T6000, 800W	
Sea Tel - Strictly Confidential & Proprietary. Do Not Copy, Distribute or Disclose Without Prior Written Approval From Sea Tel. Copyright © Sea Tel, Inc 2011 - Unpublished Work		REV A01	SHEET NUMBER 1 OF 5





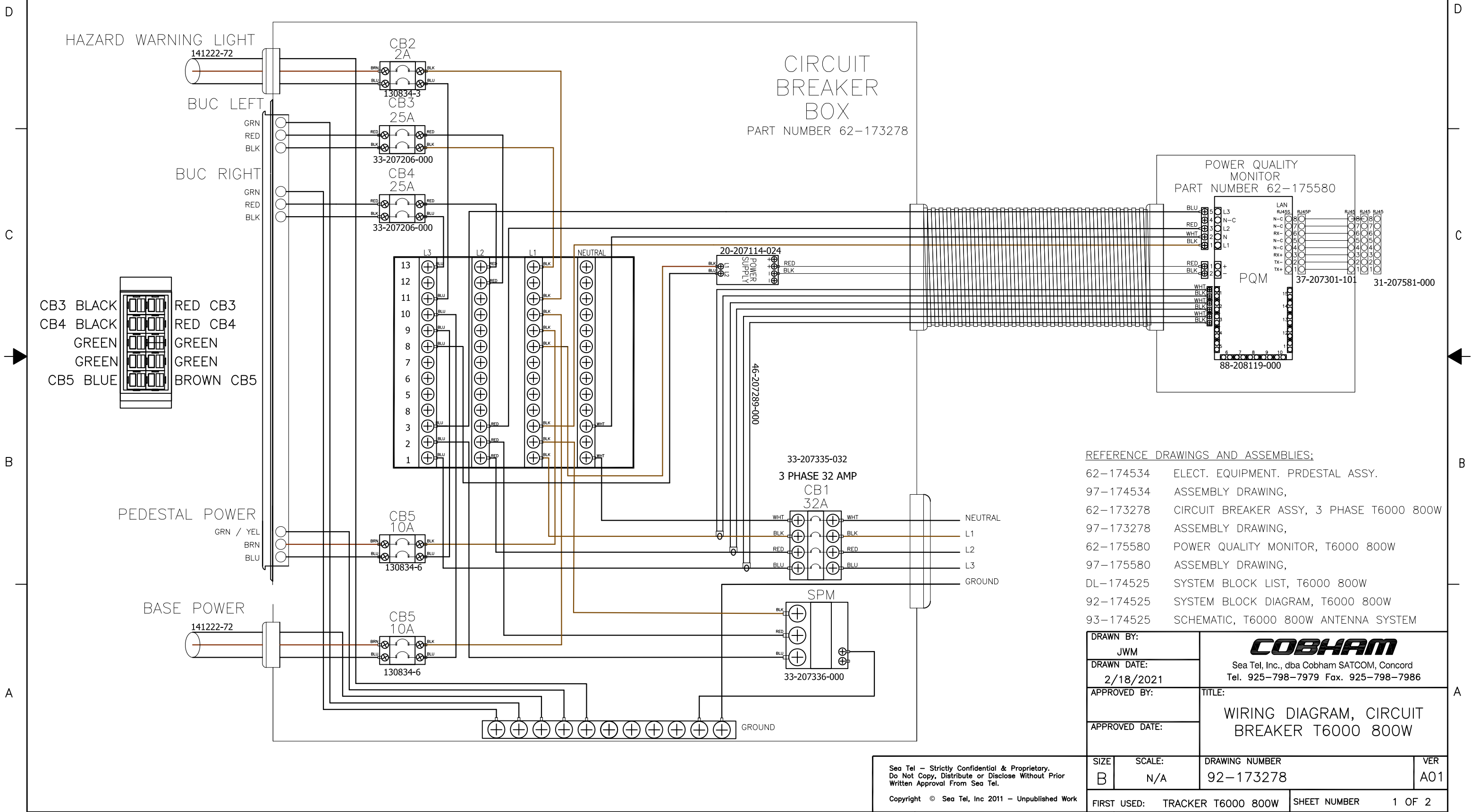


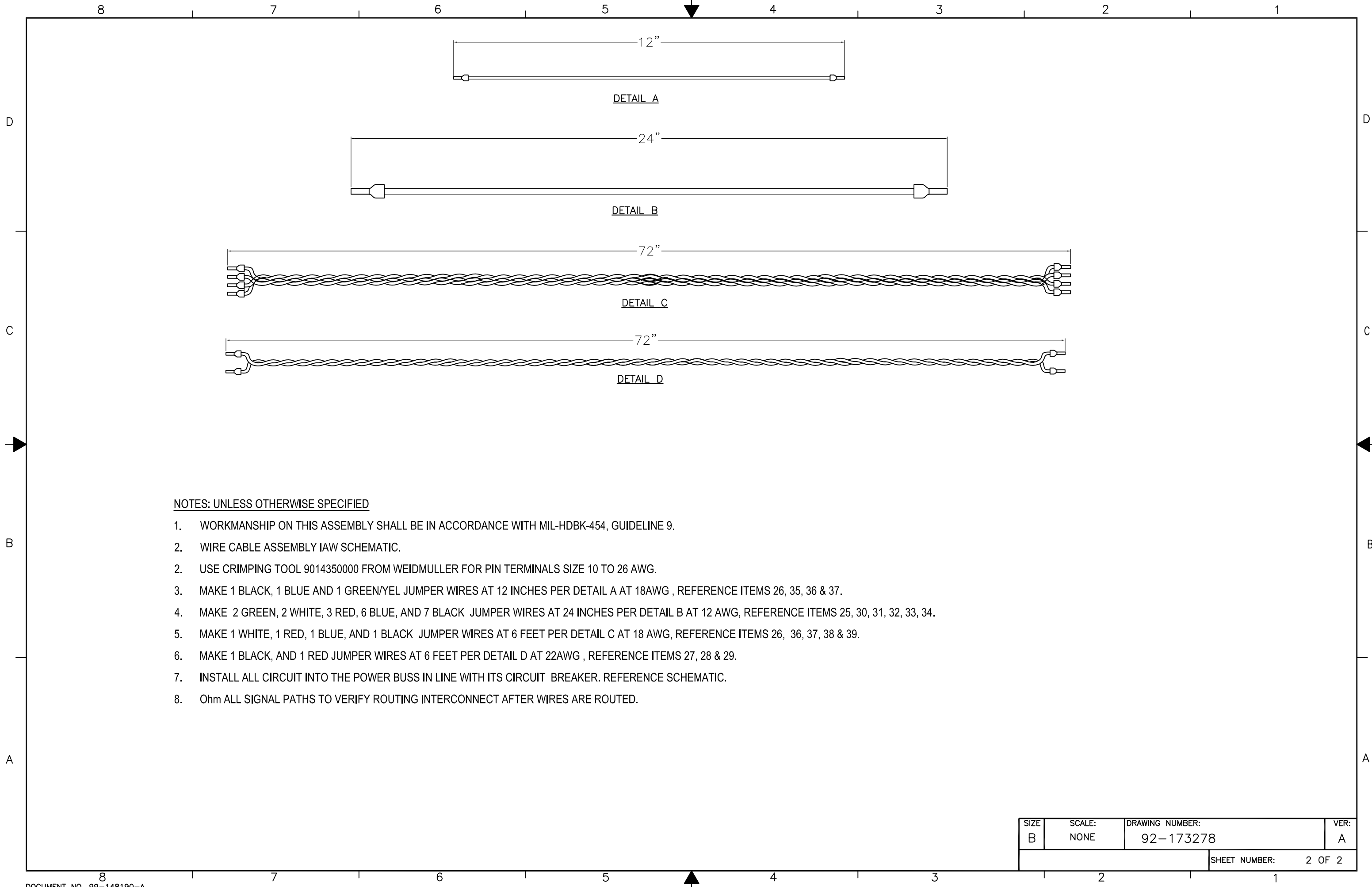


ENCLOSURE KNOCKOUTS SPECIFICATION/ PLATE ALIGNMENT

SIZE	SCALE	DRAWING NUMBER	REV
D	1:4		
		SHEET NUMBER	5 OF 5

VERSION HISTORY				
VER	DCO	DESCRIPTION	DATE	BY
A01	TBD	MOVE TO PROTOTYPE	3/2/2021	JWM





SIZE	SCALE:	DRAWING NUMBER:	VER:
B	NONE	92-173278	A
SHEET NUMBER:			2 OF 2

ORACLE BOM Explosion Report

Item Number: 62-166653

Description: SAFETY CIRCUIT INTERFACE BOX ASSY

Item Revision: A.03 MCO-00049369

Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	93-166653	A MCO-00049369	SCHEMATIC, SAFETY CIRCUIT INTERFACE BOX ASSY	
0	REF	pcs	97-166653	A MCO-00049240	SAFETY CIRCUIT INTERFACE BOX ASSY	
1	1	pcs	41-167117-A	02 MCO-00049205	MACHINING, SAFETY ENCLOSURE	
2	1	pcs	135235-5	A MCO-00041705	POWER SUPPLY, SWITCHING, 24V, 25W, 1.1AMP	
3	1	ea	122289-2	G ECO-00008543	POWER ENTRY MODULE ASSY, 11 IN LEADS	
4	1	pcs	33-207272-000	MCO-00042184	SWITCH, GREEN 22MM PANEL MOUNT, 24VDC, 2.5A	
5	1	pcs	33-207272-001	MCO-00042175	SWITCH, YELLOW 22MM PANEL MOUNT, 24VDC, 2.5A	
6	3	pcs	37-207295-000	MCO-00040777	CONNECTOR, M8-3S BH	
7	11	ea	121899-24	MCO-00012115	WIRE PIN TERMINAL, CRIMP, 24 AWG, LT BLU	NOT SHOWN
20	2	ea	119745-118	MCO-00046136	SCREW, PAN HD, PHIL, M3 X 8, S S	
21	4	ea	119973-128	MCO-00030005	SCREW, SOCKET HD, M5 X 20, SS.	
30	4	ea	114580-210	MCO-00046136	WASHER, FLAT, M3, SS.	
40	2	ea	120089-211	MCO-00023264	NUT, HEX, M3, SS.	
		pcs	62-166653	A.03 MCO-00049369	SAFETY CIRCUIT INTERFACE BOX ASSY	

Created By: Mike Needham

Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-175119
Description: BRACKET KIT, SERVICE, T6000 800W
Item Revision: A.01 ECO-00038243
Date as of: 03/24/2021 06:36:42 AM PDT

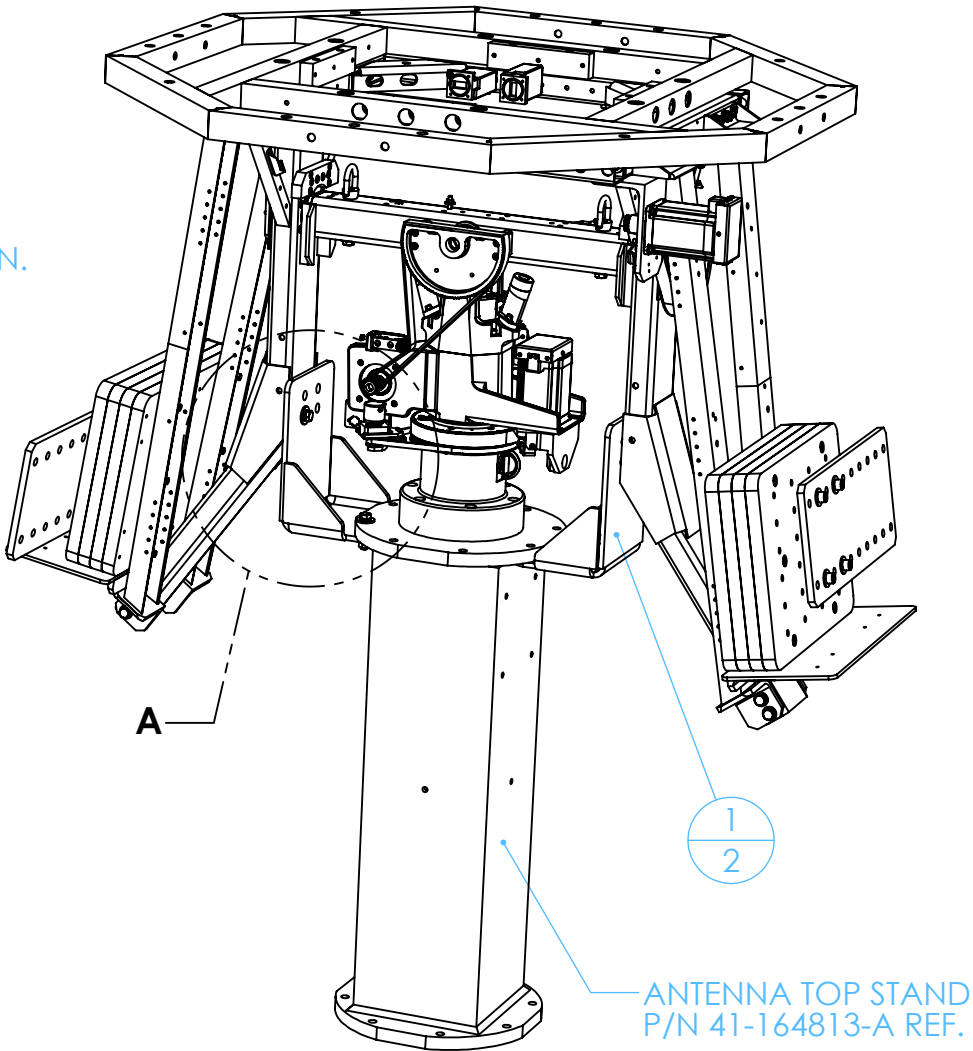
Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	97-175119	A.01 ECO-00038243	ASSY DRAWING, BRACKET KIT, SERVICE, T6000 800W	
1	2	pcs	41-175106-A	01 ECO-00038124	BRACKET, LOCKING, EL, CL, AZ, T6000 800W	
2	1	ea	41-164616-A	01 MCO-00049204	BRACKET, ELEVATION LOCK, T6000	
3	1	pcs	41-169162-A	02 MCO-00049205	BRACKET, LIFTING SPREADER, T6000	
40	8	pcs	52-207179-000	MCO-00045771	EYE NUT, M12, GALVANIZED STEEL	
50	4	ea	114586-551	MCO-00012113	SCREW, HEX HD, 1/4-20 x 4, SS.	
58	8	ea	114625-105	MCO-00012113	WASHER,FENDER,1/4IN,18-8 SS. (3/4 IN OD x 9/32 IN	
59	4	ea	114583-029	MCO-00012113	NUT, HEX, 1/4-20, SS.	
60	4	ea	114589-189	MCO-00012113	SCREW, HEX HD M12X30	
61	12	ea	51-207596-000	MCO-00052173	SCREW, HEX HD, M12 X 45mm LG, SST	
62	2	pcs	51-207504-000	MCO-00042655	SCREW, HEX HD, M12 X 80, SS	
63	10	ea	51-207597-000	MCO-00052173	SCREW, HEX HD, M12 X 60mm LG, SST	
67	16	ea	114581-290	MCO-00012113	WASHER, LOCK, M12, SS.	
68	40	ea	114580-290	MCO-00012113	WASHER, FLAT, M12, SS.	
69	12	ea	120089-420	MCO-00012113	NUT, HEX, M12, SS.	
		ea	62-175119	A.01 ECO-00038243	BRACKET KIT, SERVICE, T6000 800W	

Created By: Mike Needham
Create Time: 03/24/2021 06:37:52 AM PDT

THIS DRAWING SHOWS HOW TO INSTALL LOCKING BRACKETS
(REMOVE BRACKETS AFTER USE):

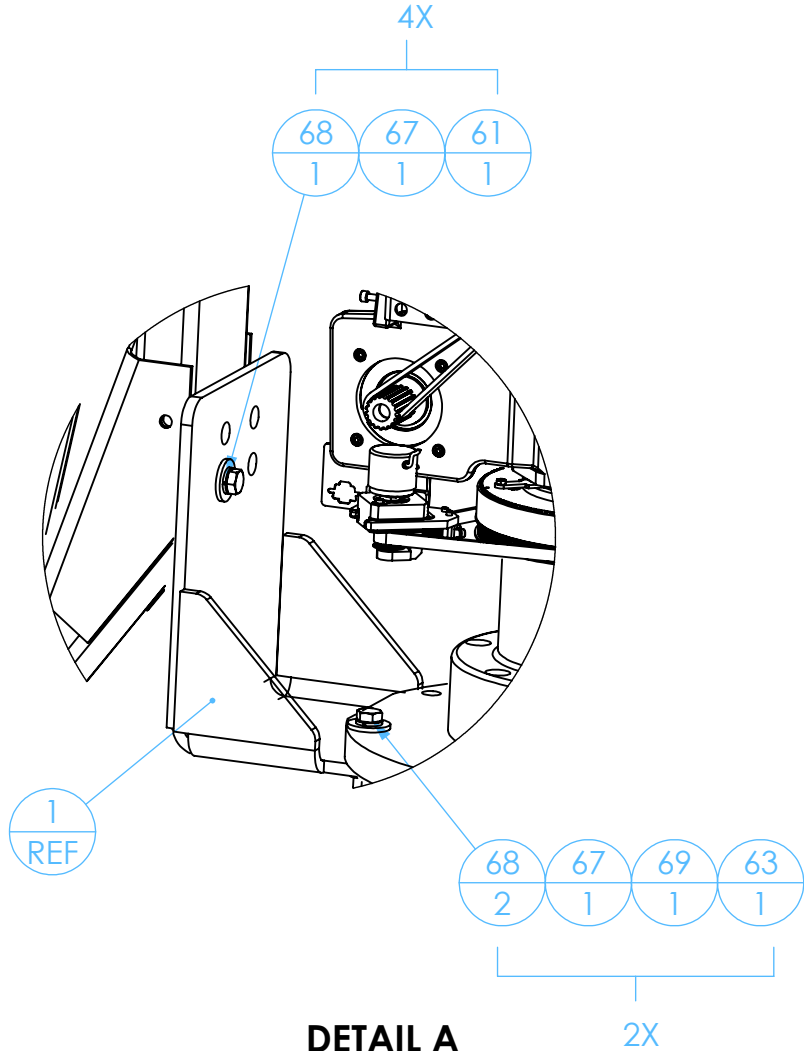
- 1) 2X 41-175106-A (LOCKING BRACKET, EL-CL, ITEM 1).
- 2) 41-164616-A (LOCKING BRACKET, EL, ITEM 2).
- 3) 41-169162-A (BRACKET, LIFTING SPREADER, ITEM 3).

*DO NOT USE LOCTITE ON FASTENERS.
*LOCKING BRACKET WILL RESTRICT THE
MOVEMENT OF AN ASSEMBLY IN ELEVATION,
CROSS-LEVEL AND AZIMUTH ROTATIONS.
*BRACKET SHOULD BE USED WHILE
MOUNTING WEIGHT PLATES AND REFLECTOR
ASSEMBLY. AS WELL AS, IT CAN BE USED TO
MOUNT ELECTRONICS AND RF COMPONENTS.
*KEEP BRACKETS MOUNTED DURING SHIPPING.
*REMOVE BRACKETS BEFORE TURNING THE SYSTEM ON.



STEP 1:
INSTALLATION GUIDE FOR BRACKET ITEM 1, P/N 41-175106-A.

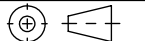
REVISION HISTORY				
REV	ECO	DATE	DESCRIPTION	BY
XXXX	XXXX	XXXXXX	DESCRIPTION	XXXX



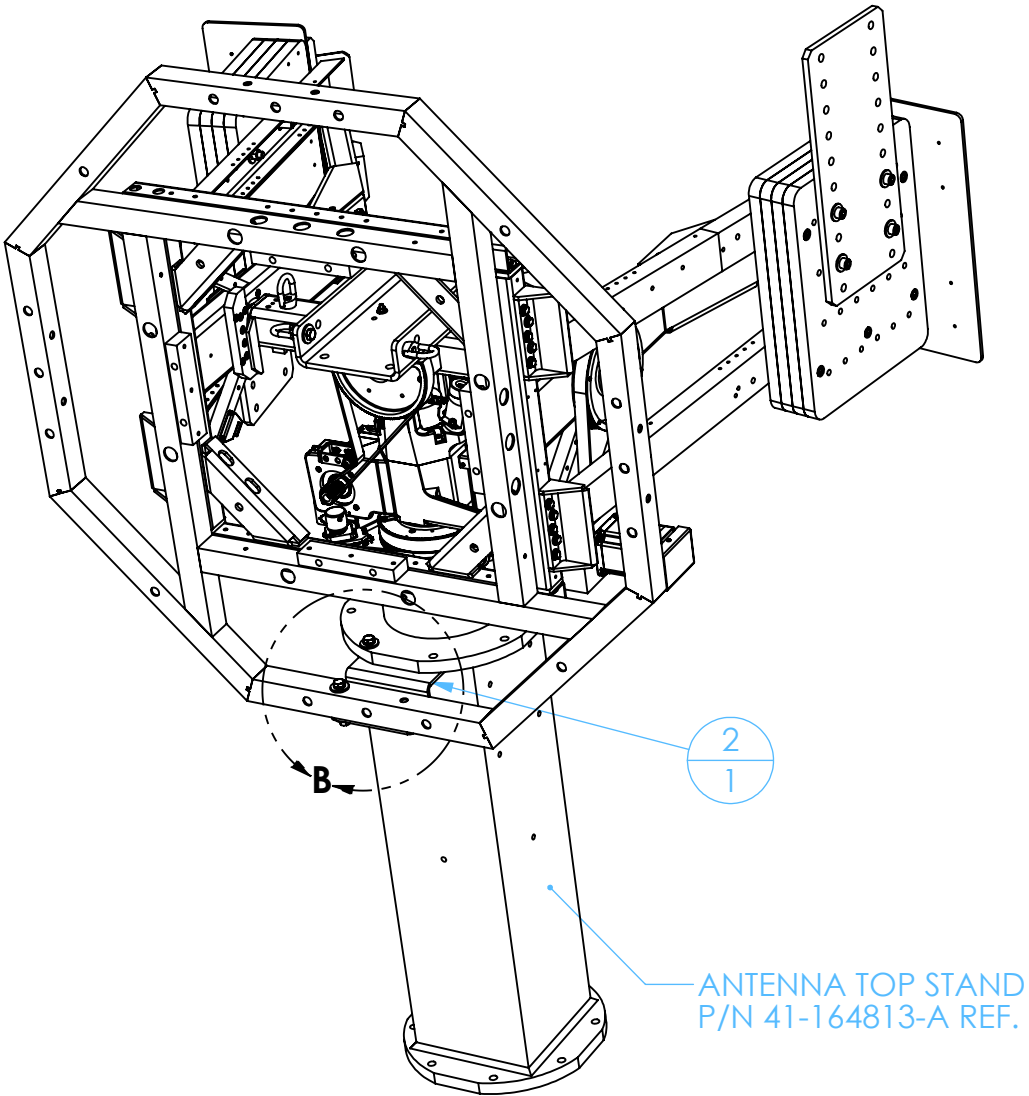
DETAIL A
SCALE 1 : 6
AT 2 PLACES

NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY.

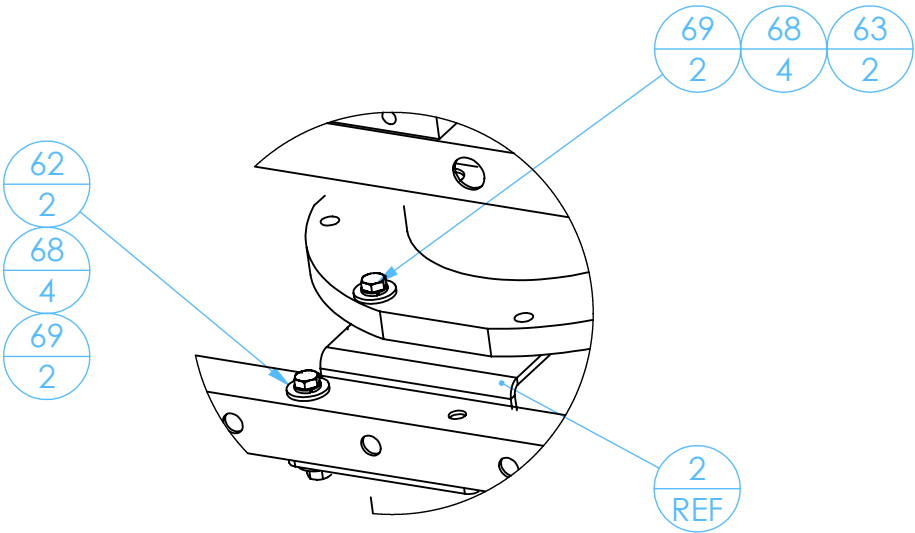
- NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
 2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-175119, REGARDLESS OF ASSEMBLY OR DRAWING REVISION. SOME ITEMS SHOWN ON THIS DRAWING MAY NOT BE INCLUDED ON THE BILL OF MATERIAL, OR MAY APPEAR IN A DIFFERENT ORIENTATION THAN THE DRAWING DEPICTS FOR SOME VARIANTS. REFER TO THE BILL OF MATERIALS FOR THE VARIANT NUMBER SHOWN ON THE WORK ORDER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5°	DESIGNER/ENGINEER: CONG N.	DRAWN BY: CONG N.		COBHAM Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986	
	WEIGHT: N/A	DRAWN DATE: 07 DEC 2020			
INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED	MATERIAL: N/A	APPROVED BY:		TITLE: ASSY DRAWING, BRACKET KIT, SERVICE, T6000 800W	
INTERPRET TOLERANCING PER ASME Y14.5 - 2009	FINISH: N/A	APPROVED DATE:			
Sea Tel - Strictly Confidential & Proprietary. Do Not Copy, Distribute or Disclose Without Prior Written Approval From Sea Tel. Copyright © Sea Tel, Inc 2011 - Unpublished Work	SURFACE ROUGHNESS: 	SIZE B	SCALE: 1:12	DRAWING NUMBER 97-175119	REV A01
	3rd ANGLE PROJECTION 	FIRST USED: T6000, 800 WATT		SHEET NUMBER 1 OF 6	

STEP 2:
INSTALLATION GUIDE FOR ELEVATION LOCKING BRACKET, ITEM 2, P/N 41-164616-A.
THIS BRACKET CAN HOLD ANTENNA AT 0° OR 180°. BRACKET CAN BE USED
TO REPLACE WAVEGUIDES/LNB/ELECTRONICS. DO NOT USE LOCTITE.
ROTATE ANTENNA AND SET IT APPROX. 0° OR 180°. FASTEN HARDWARE BETWEEN
OCTAGON FRAME AND BRACKET AS SHOWN.



ANTENNA TOP STAND
P/N 41-164813-A REF.

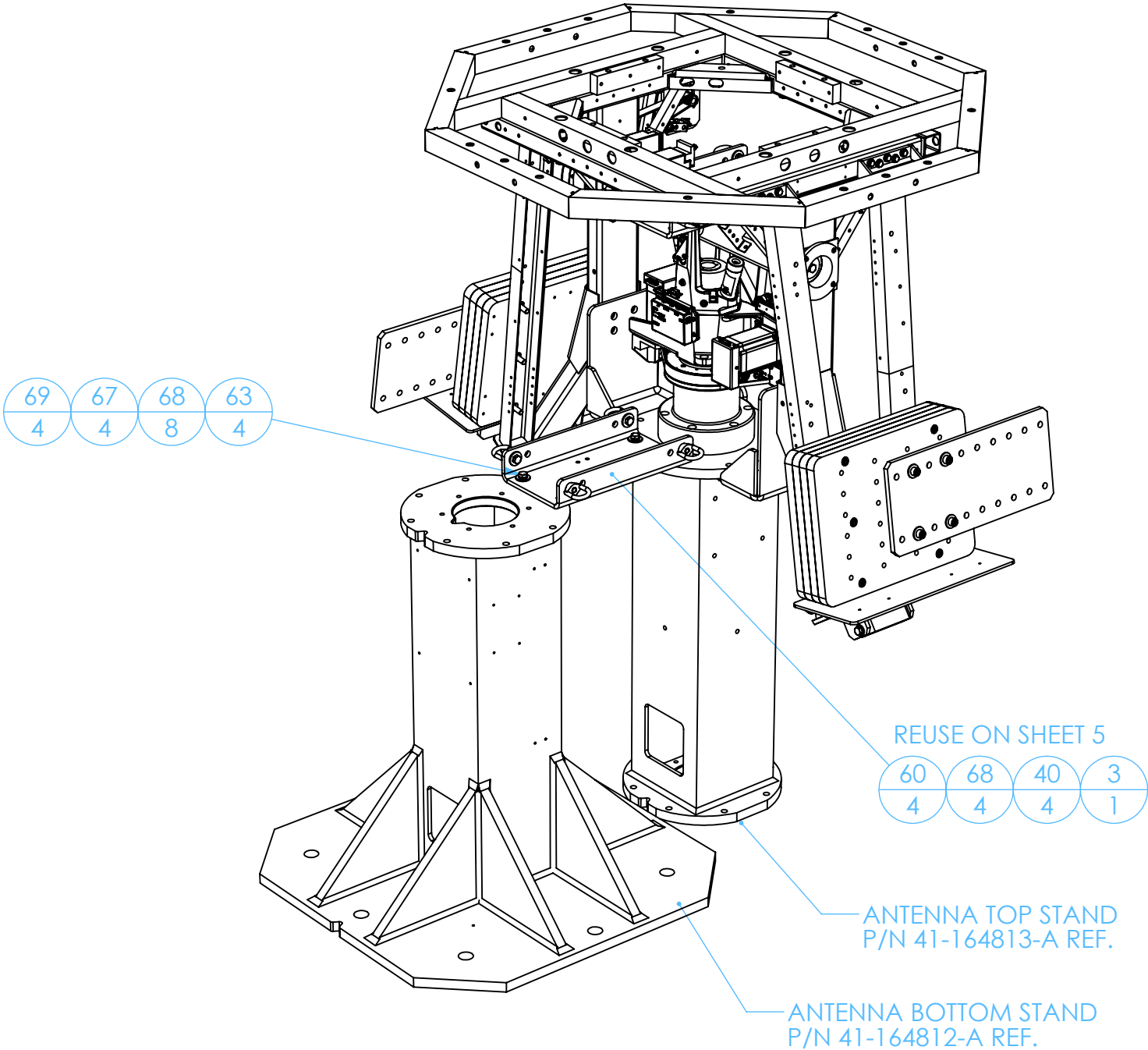


DETAIL B
SCALE 1 : 6

NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY.

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:16	97-175119	A01
		SHEET NUMBER	2 OF 6

STEP 3:
INSTALLATION GUIDE FOR BRACKET, ITEM 3, P/N 41-169162-A.
THIS BRACKET IS USEFUL FOR TWO PURPOSE:
A) DURING SHIPMENT OF GENERAL ASSEMBLY, T6000 AND T6000 800W.
B) GUIDE BRACKET FOR ON-SITE ASSEMBLY OF T6000 AND T6000 800W.



NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY.

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:16	97-175119	A01
		SHEET NUMBER	3 OF 6

8 7 6 5 4 3 2 1

D

C

B

A



ITEM 3 (BRACKET P/N 41-169162-A)



2X ITEM 1 (BRACKET P/N 41-175106-A)

USE OF BRACKETS DURING SHIPPING (REF. IMAGES)

D

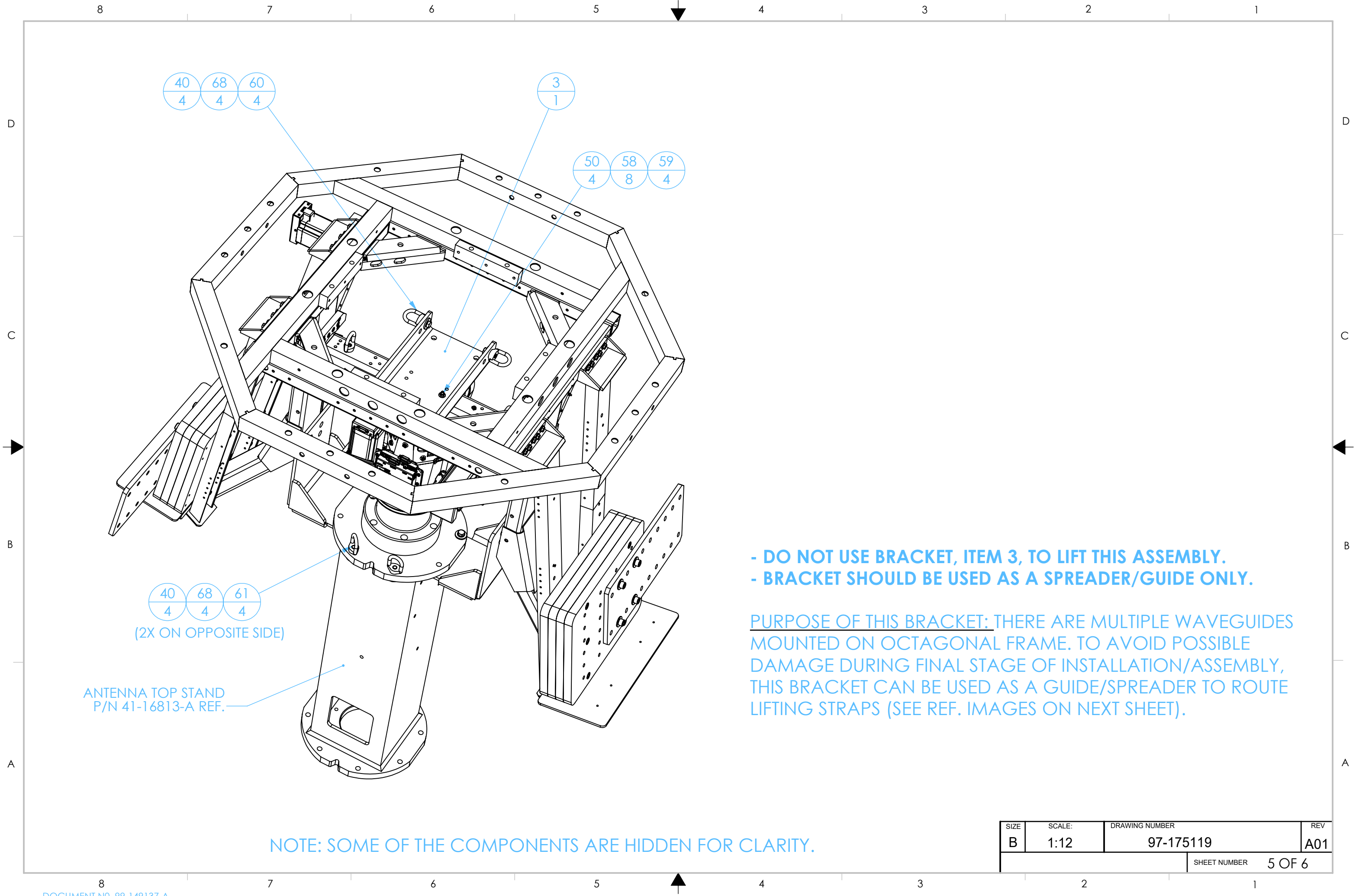
C

B

A

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:48	97-175119	A01
		SHEET NUMBER	4 OF 6

8 7 6 5 4 3 2 1



- DO NOT USE BRACKET, ITEM 3, TO LIFT THIS ASSEMBLY.
- BRACKET SHOULD BE USED AS A SPREADER/GUIDE ONLY.

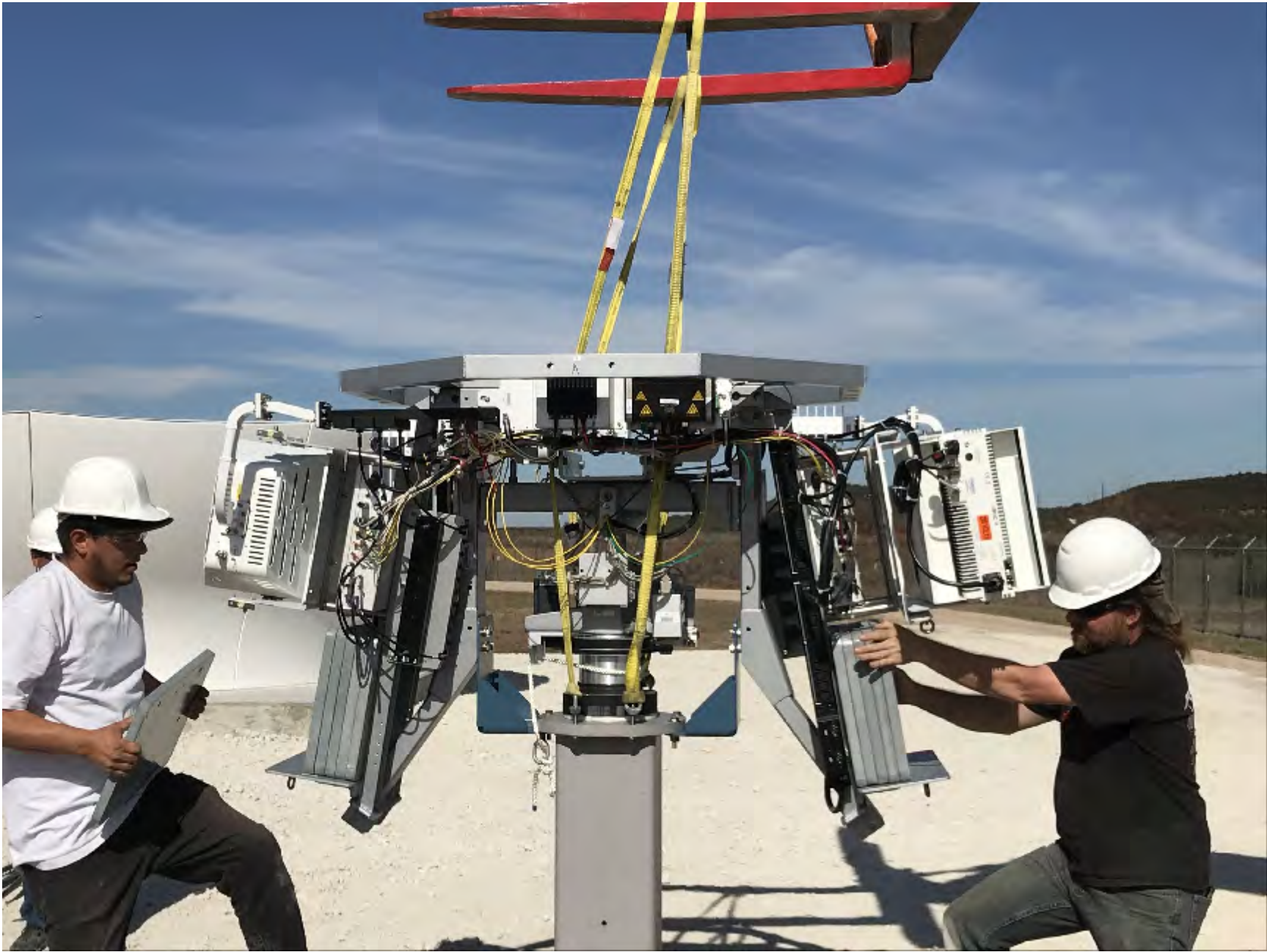
PURPOSE OF THIS BRACKET: THERE ARE MULTIPLE WAVEGUIDES MOUNTED ON OCTAGONAL FRAME. TO AVOID POSSIBLE DAMAGE DURING FINAL STAGE OF INSTALLATION/ASSEMBLY, THIS BRACKET CAN BE USED AS A GUIDE/SPREADER TO ROUTE LIFTING STRAPS (SEE REF. IMAGES ON NEXT SHEET).

NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY.

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:12	97-175119	A01
		SHEET NUMBER	5 OF 6



STRAPS ROUTING



ITEM 3 (BRACKET P/N 41-169162-A)

LIFTING STRAP

USE OF BRACKET AS A GUIDE/SPREADER (REF. IMAGES)

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:24	97-167134	A01
		SHEET NUMBER	6 OF 6

T6000 Antenna and Radome Mounting Hole Layout Instructions

Project Name: Globalstar T6000

Project Category: Installation

Approved by:

Date:

(Reference Assigned LCM category)

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Revision history is Appendix I

Signed hardcopy maintained in engineering project binder.

Electronic copy maintained under M:\Projects (ref procedure 118476)

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Reviewer	
(Print Name)	(Signature and Date)

Scope

The purpose of this document is to offer options for accurately locating the mounting holes for the T6000 antenna and radome.

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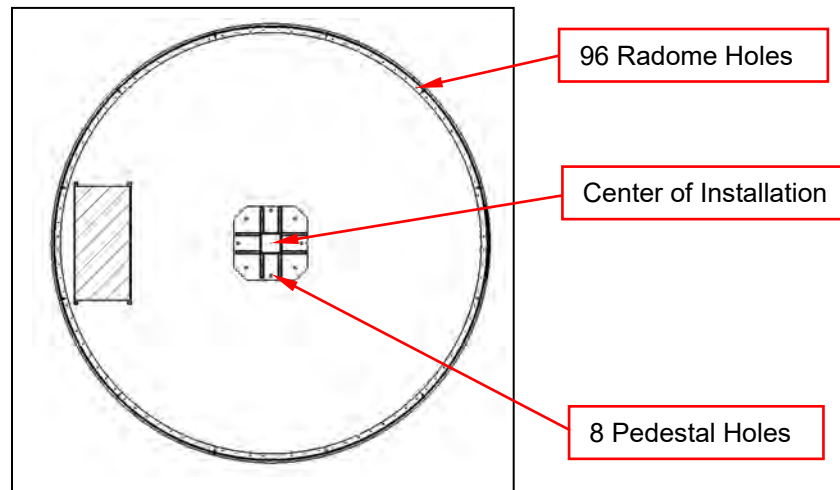
1. Step 1 – Locate Center of Installation and True North

During the planning process you will have determined the location for the T6000 antenna, HVAC and radome. Locating the center point of the antenna and radome is a critical first step in laying out all the fastening locations.



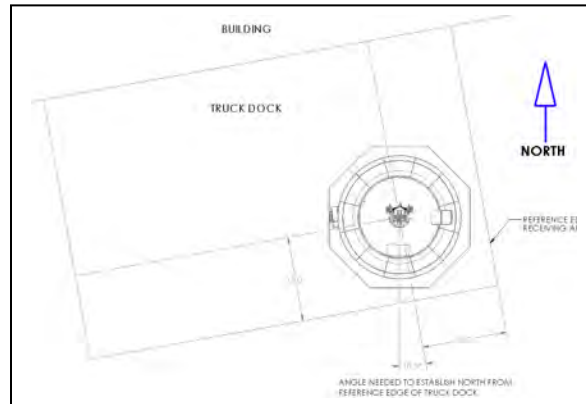
1.1. Mounting Holes Related to Center

When completed you will have marked 8 holes for the antenna pedestal and 96 holes for the radome. Both sets of holes depend on center location. Once center is located drill a $\varnothing 5/16$ " hole 2 inches deep in mounting surface for 1/4-20 female threaded anchor (see appendix for anchor detail).



1.2. True North

The example below is for the Cobham T6000 prototype installation. Based on Cobham building drawings true north was 10.3° off a line defining a reference edge. Create a line through the center point, at the true north angle, approximately 2 feet in both directions from center point.



2. Step 2 – Locating Pedestal Mounting Holes

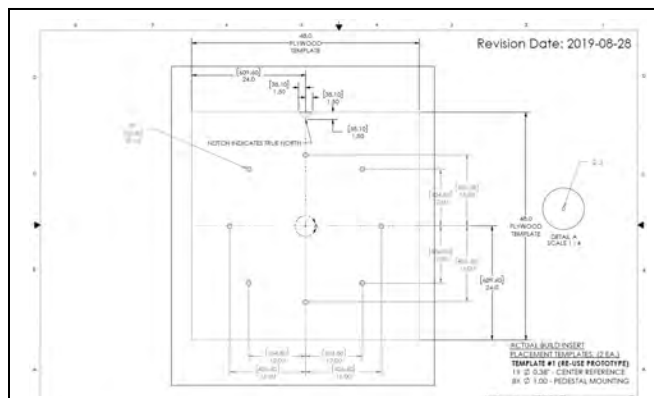
There are 2 approaches to laying out the holes on for the pedestal.

1. Creating a template
2. Lay out by hand using site drawing

2.1. Method 1 - Creating template

Begin by reviewing site arrangement drawing 94-163300. Page 2 contains the layout for a plywood template. The hole pattern is not symmetric and layout has a “notch” identifying which way the pedestal faces true north. Cobham recommends having the template water jet cut from made from 3/4” marine plywood.

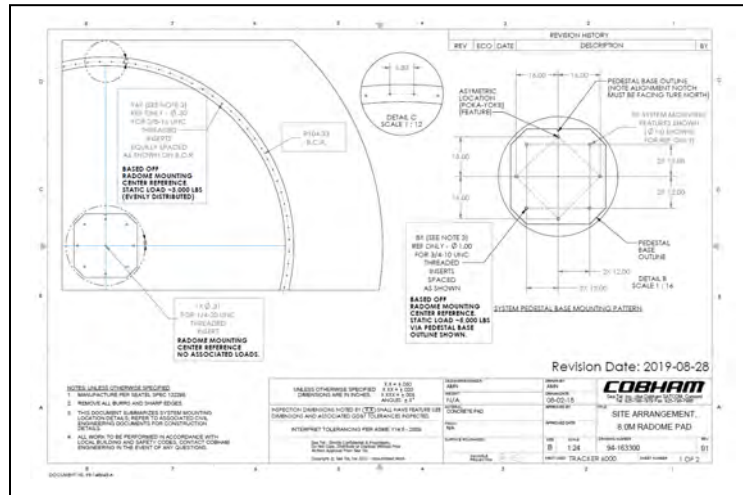
Once template is in hand secure to center point of location anchor with 1/4-20 fastener with notch aligned with line for true north facing north. Mark holes for drilling.



2.2. Method 2 – Lay Out by Hand Using Site Drawing

Again, by using the center mark and true north line construct a grid of lines.

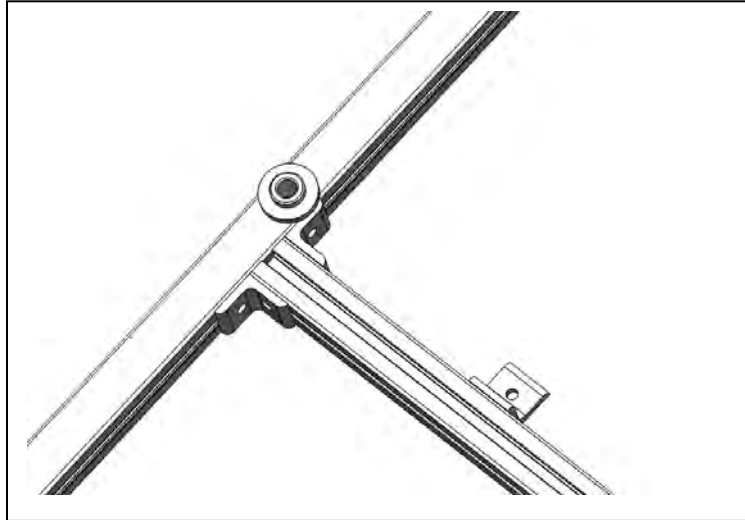
- Locate Site Drawing 94-163300. Antenna mounting dimensions are located on upper right.



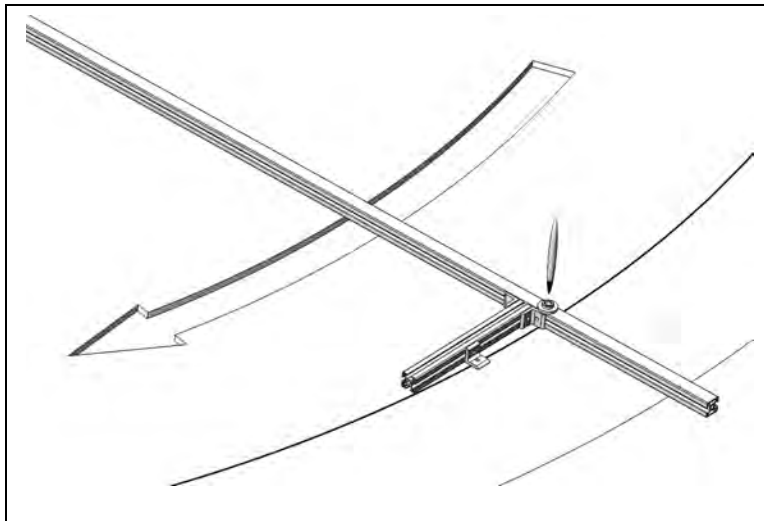
- Using a straight edge, rule and square layout mounting pattern. Example below is from Cobham prototype installation.



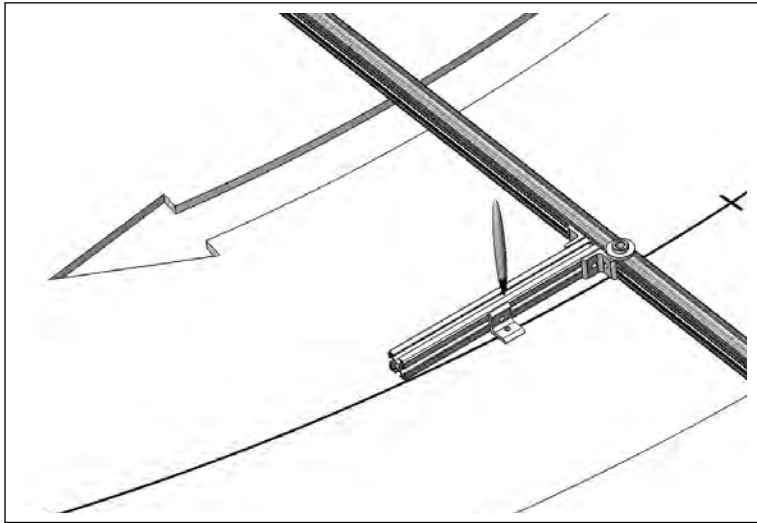
- The marking end of the jig has two holes locations set at the chord length between mounting holes.



- Use the marking jig to construct the B.C.R. (bolt circle radius).



- Mark open hole.



- Repeat the last 2 steps until all 96 holes are marked.

