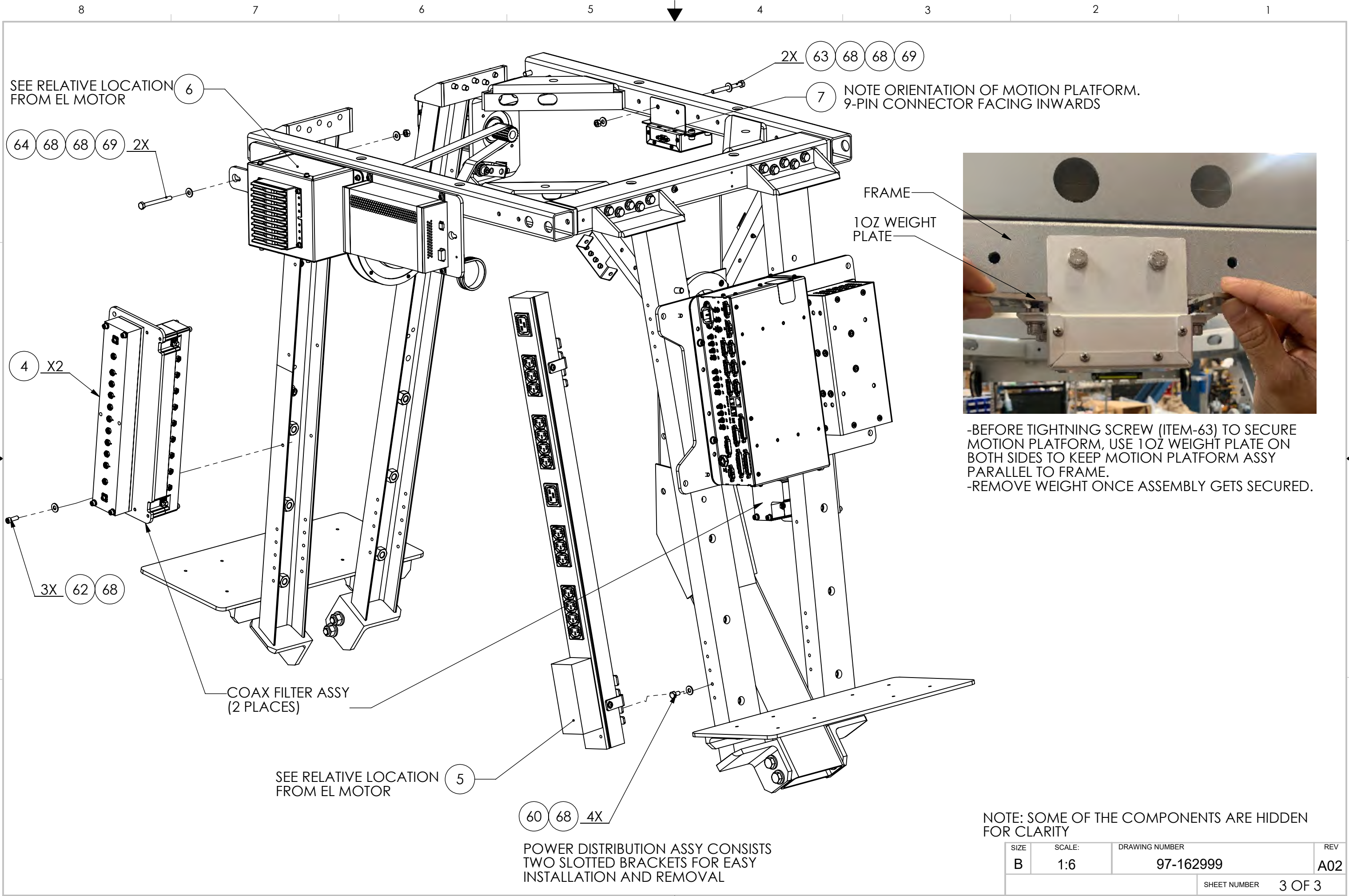


SIZE	SCALE:	DRAWING NUMBER	REV
B	1:6	97-162999	A02
		SHEET NUMBER	2 OF 3



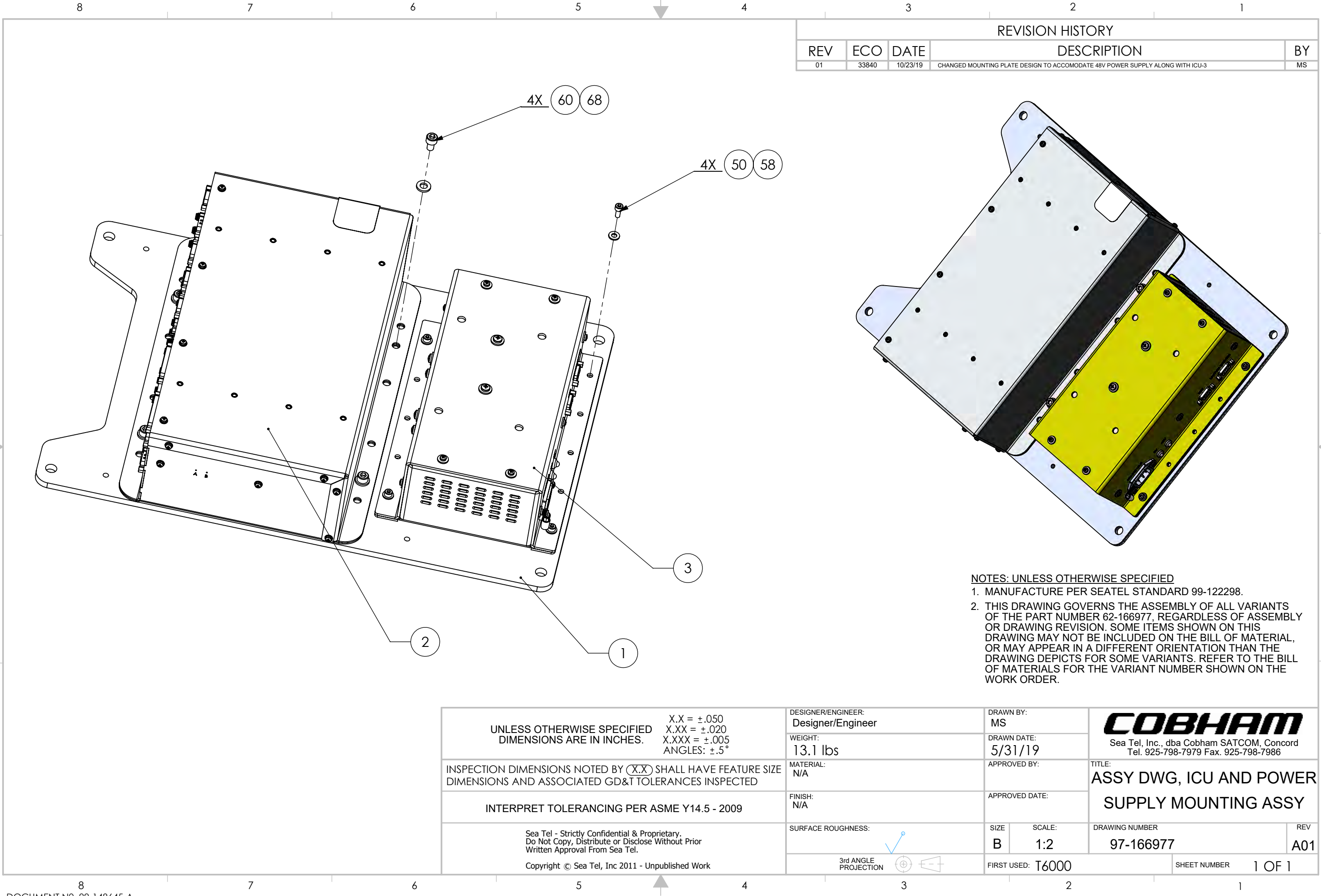
SIZE	SCALE:	DRAWING NUMBER	REV
B	1:6	97-162999	A02
		SHEET NUMBER	3 OF 3

ORACLE BOM Explosion Report

Item Number: 62-166977
Description: ICU AND POWER SUPPLY MOUNTING ASSY, T6000
Item Revision: A.01 MCO-00049240
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	ea	97-166977	A.01 MCO-00049240	ASSY DRAWING, ICU AND POWER SUPPLY MOUNTING ASSY	
1	1	ea	41-164073-A	02 MCO-00049204	PLATE, ICU AND POWER SUPPLY MOUNTING, T6000	
2	1	pcs	62-164506	A.01 MCO-00046477	ENCLOSURE ASSY, ICU3,	
3	1	ea	62-169591	A.02 MCO-00049240	POWER SUPPLY ASSY, 48V, T6000	
50	4	ea	119973-116	MCO-00012113	SCREW, SOCKET HD, M4 X 10, SS.	
58	4	ea	114580-230	MCO-00039541	WASHER, FLAT, M4, SS.	
60	4	ea	119973-441	MCO-00012113	SCREW, SOCKET HD, M6 X 10, SS.	
68	4	ea	114580-250	MCO-00031530	WASHER, FLAT, M6, SS.	
		pcs	62-166977	A.01 MCO-00049240	ICU AND POWER SUPPLY MOUNTING ASSY, T6000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT



REVISION HISTORY				
REV	ECO	DATE	DESCRIPTION	BY
01	33840	10/23/19	CHANGED MOUNTING PLATE DESIGN TO ACCOMODATE 48V POWER SUPPLY ALONG WITH ICU-3	MS

- NOTES: UNLESS OTHERWISE SPECIFIED
- 1. MANUFACTURE PER SEATEL STANDARD 99-122298.
 - 2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-166977, 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.

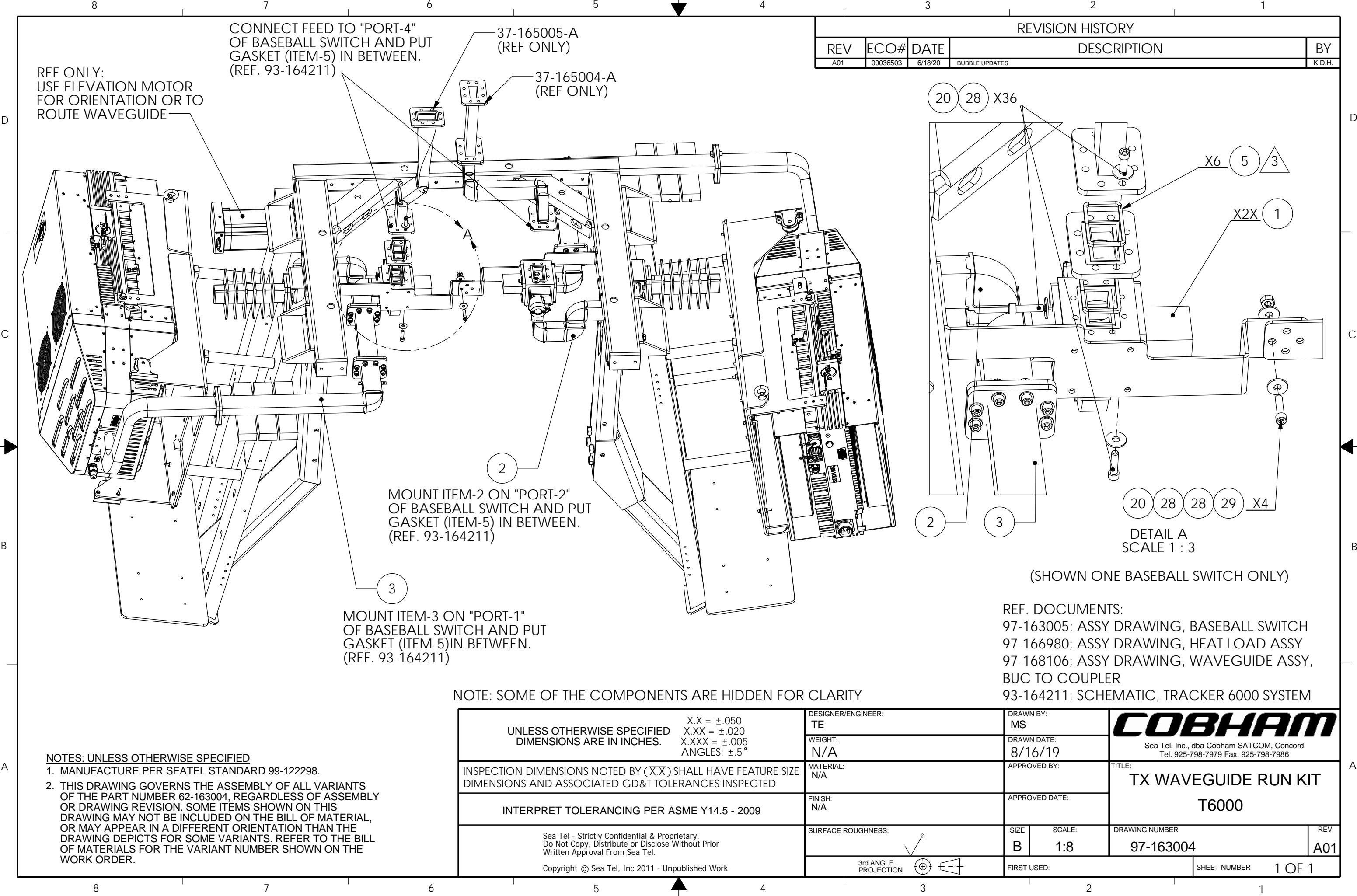
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5° INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED INTERPRET TOLERANCING PER ASME Y14.5 - 2009 Sea Tel - Strictly Confidential & Proprietary. Do Not Copy, Distribute or Disclose Without Prior Written Approval From Sea Tel. Copyright © Sea Tel, Inc 2011 - Unpublished Work	DESIGNER/ENGINEER: Designer/Engineer	DRAWN BY: MS	COBHAM Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986	
	WEIGHT: 13.1 lbs	DRAWN DATE: 5/31/19		
	MATERIAL: N/A	APPROVED BY:	TITLE: ASSY DWG, ICU AND POWER SUPPLY MOUNTING ASSY	
	FINISH: N/A	APPROVED DATE:		
3rd ANGLE PROJECTION	SURFACE ROUGHNESS:	SIZE B	SCALE: 1:2	DRAWING NUMBER 97-166977
		FIRST USED: T6000		REV A01
			SHEET NUMBER	1 OF 1

ORACLE BOM Explosion Report

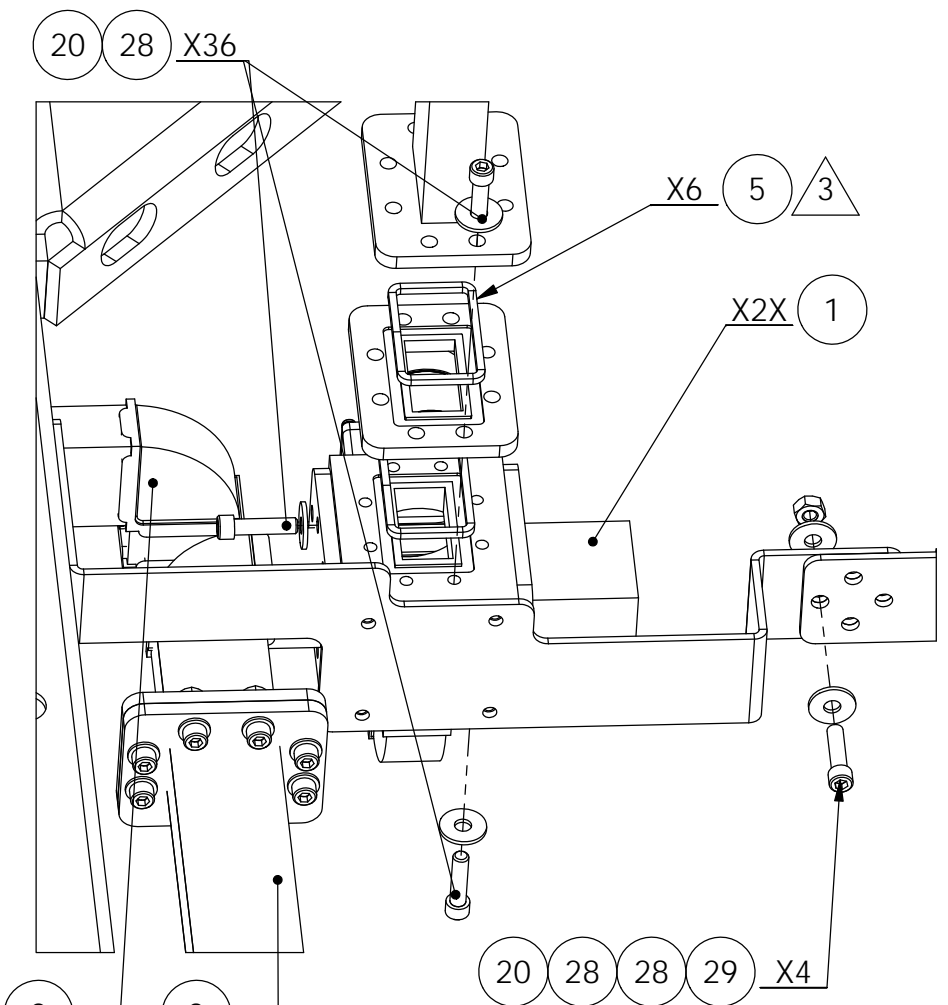
Item Number: 62-163004
Description: TX WAVEGUIDE RUN KIT, T6000
Item Revision: A.05 MCO-00049369
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	ea	97-163004	A.01 MCO-00049369	ASSY DRAWING, TX WAVEGUIDE RUN KIT, T6000	
1	2	pcs	62-163005	A.01 MCO-00049343	BASEBALL SWITCH SUB ASSY, WR159	
2	2	pcs	62-166980	A MCO-00049240	HEAT LOAD ASSY, T6000	
3	2	pcs	62-168106	A.02 MCO-00049240	WAVEGUIDE ASSY, BUC TO COUPLER, T6000	
5	6	ea	41-123618-29	MCO-00044158	WR159 HALF CPRG WAVEGUIDE GASKET	
20	40	ea	114593-206	MCO-00012113	SCREW, SOCKET HD, 1/4-20 x 5/8, SS.	
28	44	ea	114580-029	MCO-00012113	WASHER, FLAT, 1/4, SS.	
29	4	ea	114583-029	MCO-00012113	NUT, HEX, 1/4-20, SS.	
		pcs	62-163004	A.05 MCO-00049369	TX WAVEGUIDE RUN KIT, T6000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT



REVISION HISTORY				
REV	ECO#	DATE	DESCRIPTION	BY
A01	00036503	6/18/20	BUBBLE UPDATES	K.D.H.



DETAIL A
SCALE 1 : 3

(SHOWN ONE BASEBALL SWITCH ONLY)

REF. DOCUMENTS:
97-163005; ASSY DRAWING, BASEBALL SWITCH
97-166980; ASSY DRAWING, HEAT LOAD ASSY
97-168106; ASSY DRAWING, WAVEGUIDE ASSY,
BUC TO COUPLER
93-164211; SCHEMATIC, TRACKER 6000 SYSTEM

NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-163004, 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.

NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5°	DESIGNER/ENGINEER: TE	DRAWN BY: MS	
	WEIGHT: N/A	DRAWN DATE: 8/16/19	
INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED	MATERIAL: N/A	APPROVED BY:	
	FINISH: N/A	APPROVED DATE:	
INTERPRET TOLERANCING PER ASME Y14.5 - 2009	SURFACE ROUGHNESS:	SIZE B	SCALE: 1:8
	3rd ANGLE PROJECTION	FIRST USED:	SHEET NUMBER 1 OF 1
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		TITLE: TX WAVEGUIDE RUN KIT T6000	
		DRAWING NUMBER 97-163004	REV A01



ORACLE BOM Explosion Report

Item Number: 62-167134
Description: BRACKET KIT, SERVICE, T6000
Item Revision: A.02 MCO-00049240
Date as of: 07/31/2020 08:53:28 AM PDT

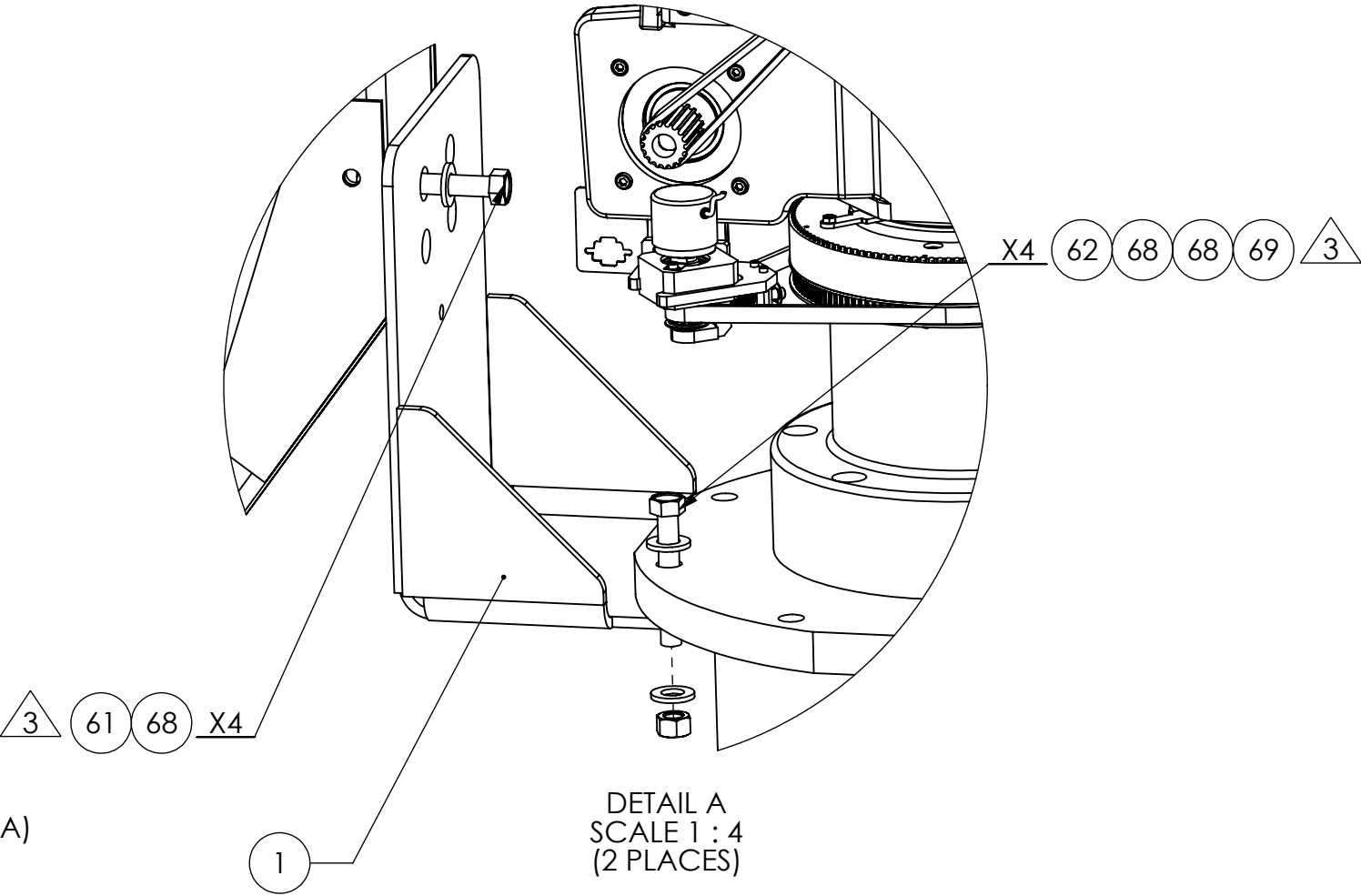
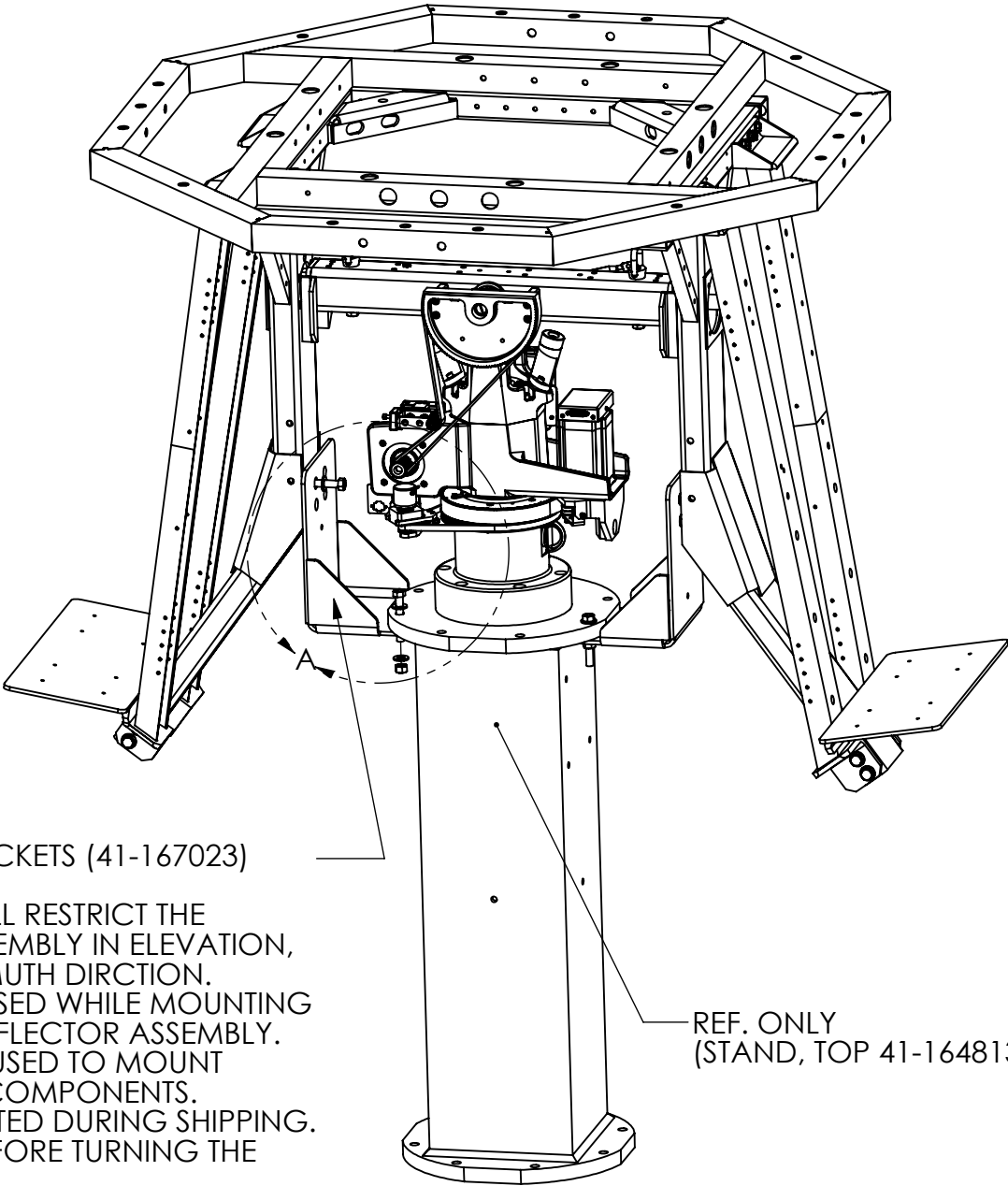
Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	97-167134	A MCO-00049240	ASSY DRAWING, BRACKET KIT, SERVICE, T6000	
1	2	ea	41-167023-A	01 MCO-00049205	BRACKET, LOCKING, EL, CL, T6000	
2	1	ea	41-164616-A	01 MCO-00049204	BRACKET, ELEVATION LOCK, T6000	
3	1	pcs	41-169162-A	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	8	ea	114589-192	MCO-00012113	SCREW, HEX HD M12X40	
62	12	pcs	51-207504-000	MCO-00042655	SCREW, HEX HD, M12 X 80, SS	
67	20	ea	114581-290	MCO-00012113	WASHER, LOCK, M12, SS.	
68	32	ea	114580-290	MCO-00012113	WASHER, FLAT, M12, SS.	
69	8	ea	120089-420	MCO-00012113	NUT, HEX, M12, SS.	
		pcs	62-167134	A.02 MCO-00049240	BRACKET KIT, SERVICE, T6000	

Created By: Mike Needham
Create Time: 07/31/2020 08:53:40 AM PDT

THIS DRAWING SHOWS HOW TO INSTALL LOCKING BRACKETS:
1) 41-167023-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)
REMOVE BRACKETS AFTER USE

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

1) INSTALLATION GUIDE FOR EL-CL LOCKING BRACKET 41-167023-A



- ALWAYS USE TWO BRACKETS (41-167023)
- DO NOT USE LOCTITE.
- LOCKING BRACKET WILL RESTRICT THE MOVEMENT OF AN ASSEMBLY IN ELEVATION, CROSS-LEVEL AND AZIMUTH DIRCTION.
- 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.

REF. ONLY
(STAND, TOP 41-164813-A)

DETAIL A
SCALE 1 : 4
(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 62-167134, 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.

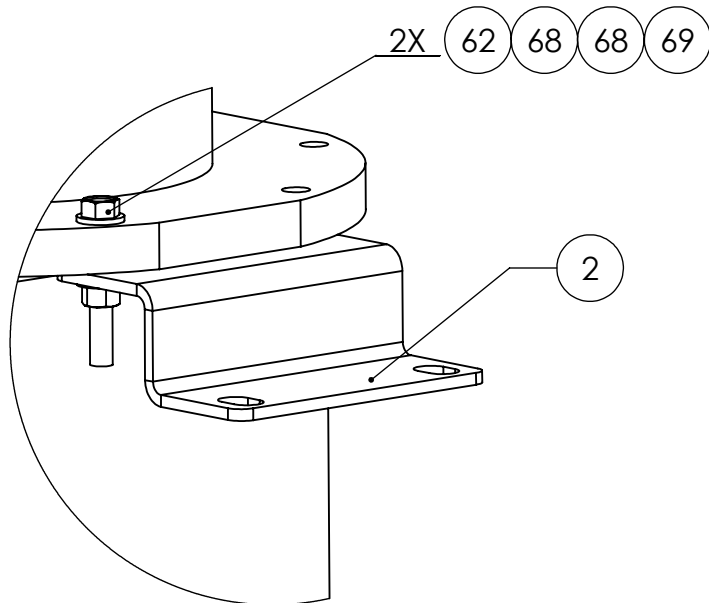
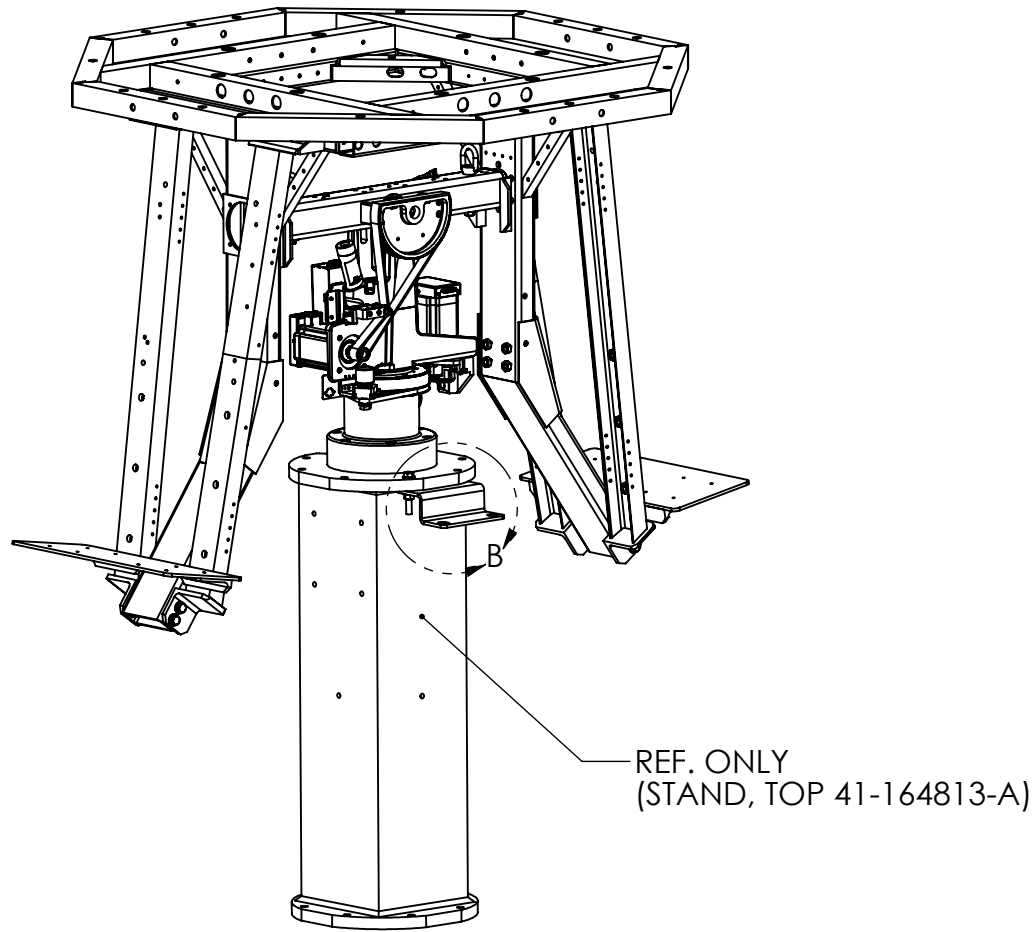
3 USE M12 LOCK WASHER (ITEM-67 FROM BOM 62-167134) DURING SHIPPING.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5° INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED INTERPRET TOLERANCING PER ASME Y14.5 - 2009 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	DESIGNER/ENGINEER: TE	DRAWN BY: MS	COBHAM Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986	
	WEIGHT: N/A	DRAWN DATE: 12/21/19		
	MATERIAL: N/A	APPROVED BY:	TITLE: ASSY DRAWING, BRACKET KIT, SERVICE, T6000	
	FINISH: N/A	APPROVED DATE:		
3rd ANGLE PROJECTION	SURFACE ROUGHNESS:	SIZE B	SCALE: 1:12	DRAWING NUMBER 97-167134
		FIRST USED:		REV A
			SHEET NUMBER	1 OF 6

2) INSTALLATION GUIDE FOR ELEVATION LOCKING BRACKET 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.

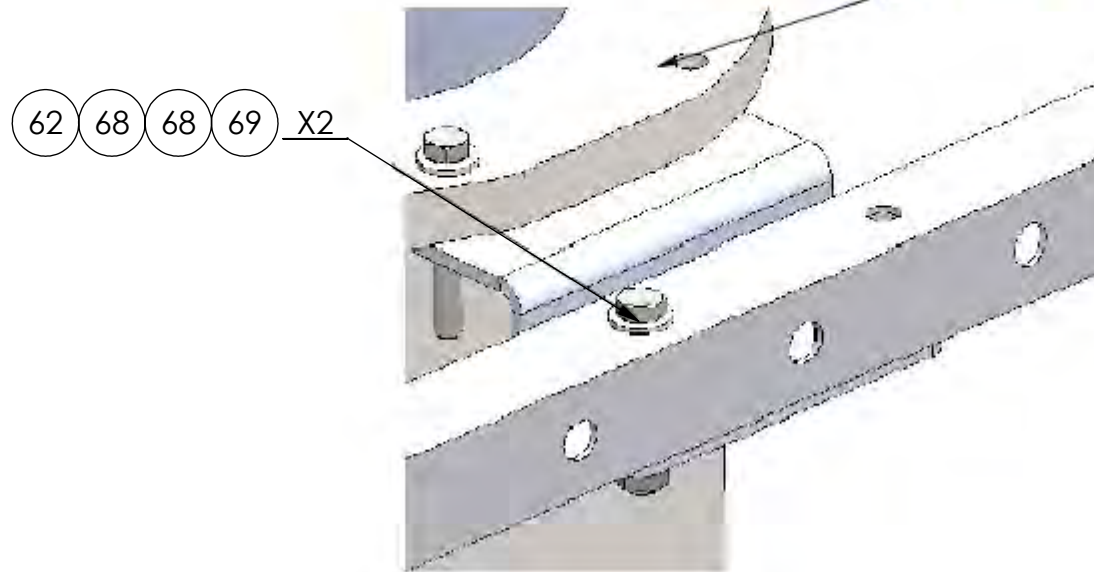
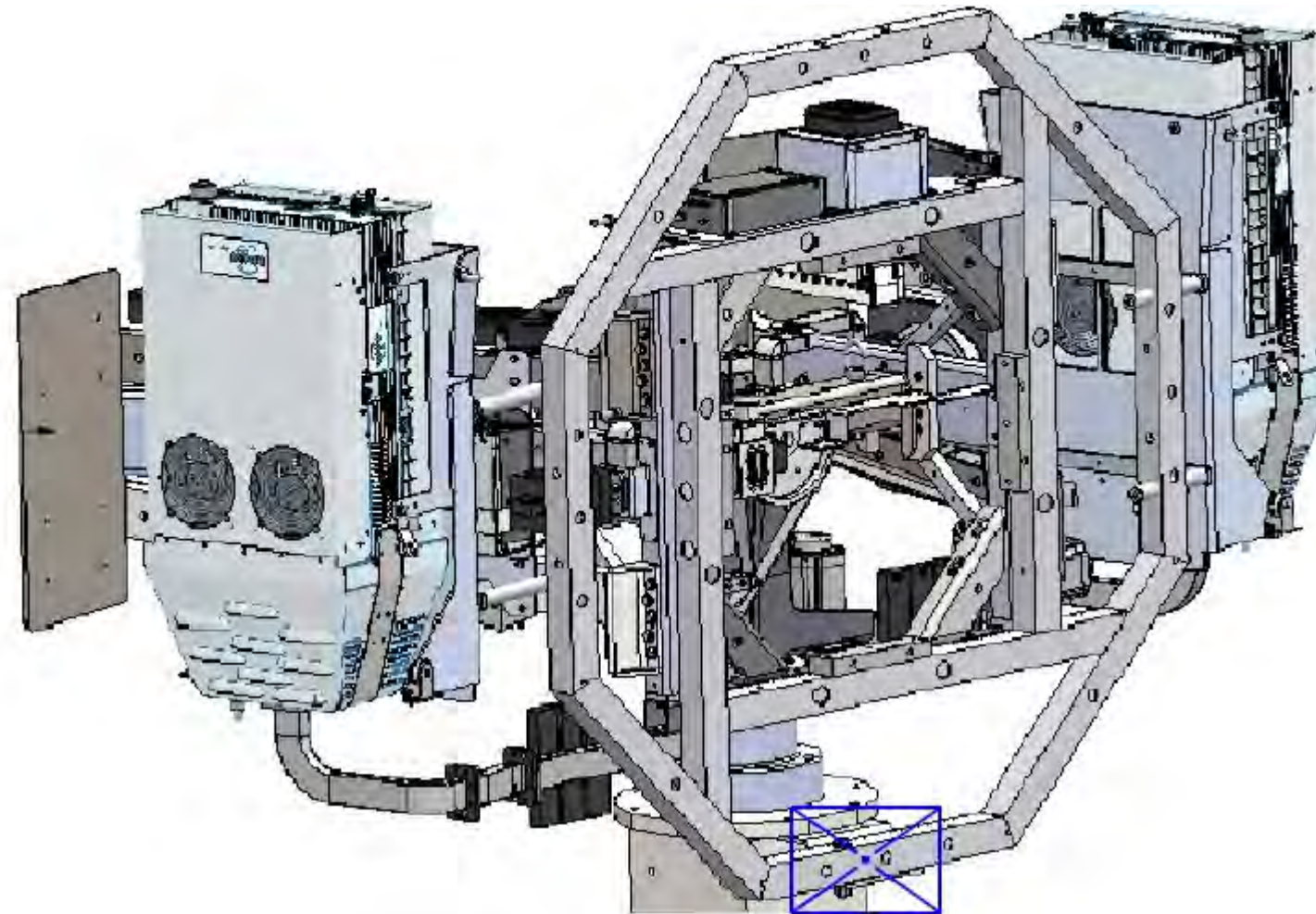
STEP 1- INSTALL EL-LOCKING BRACKET (ITEM-2) AND REQUIRED HARDWARE

STEP 2- ROTATE ANTENNA AND SET IT APPROX. 0° OR 180°. FASTEN HARDWARE BETWEEN OCTAGONAL FRAME AND BRACKET AS SHOWN.



DETAIL B
SCALE 1 : 4

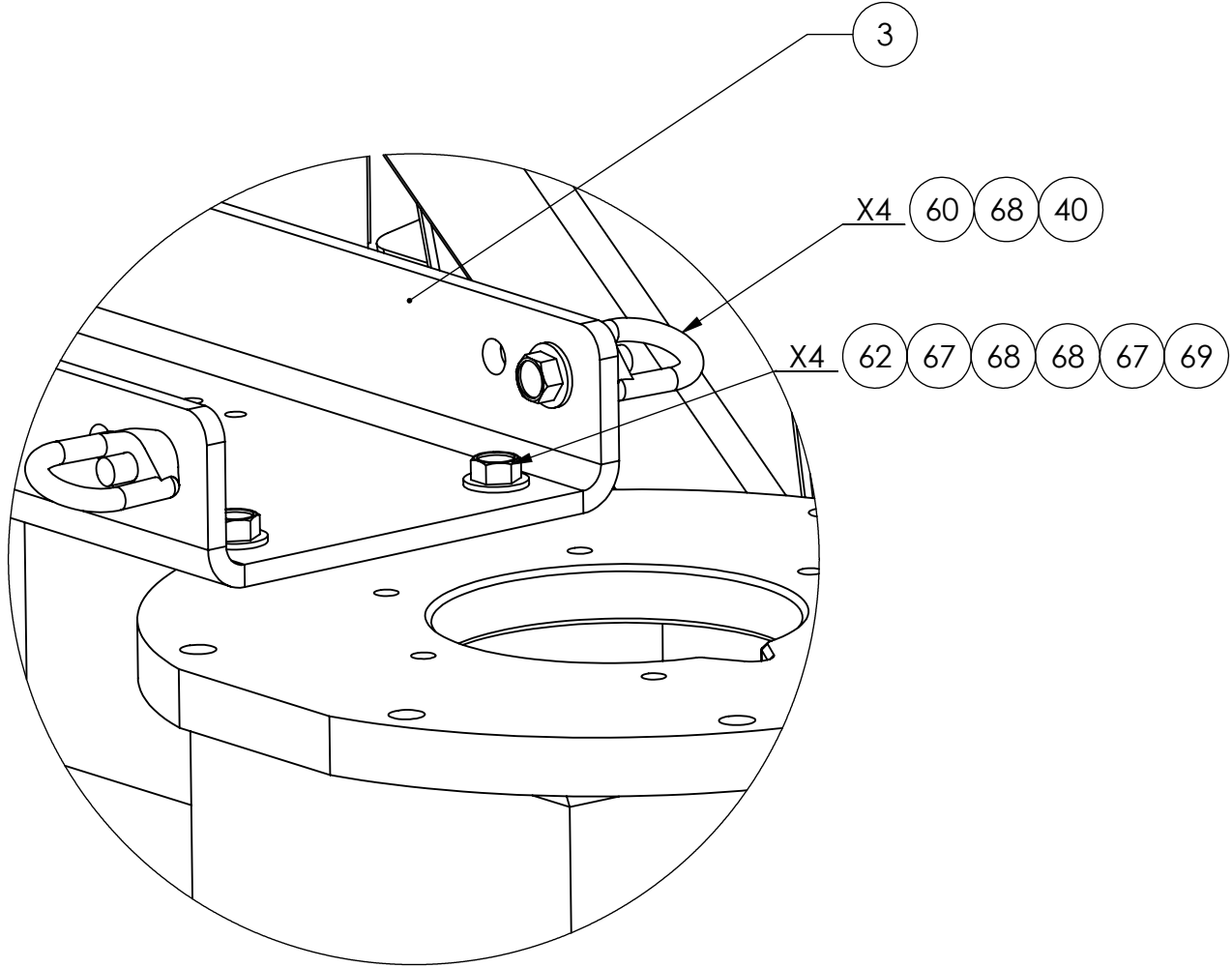
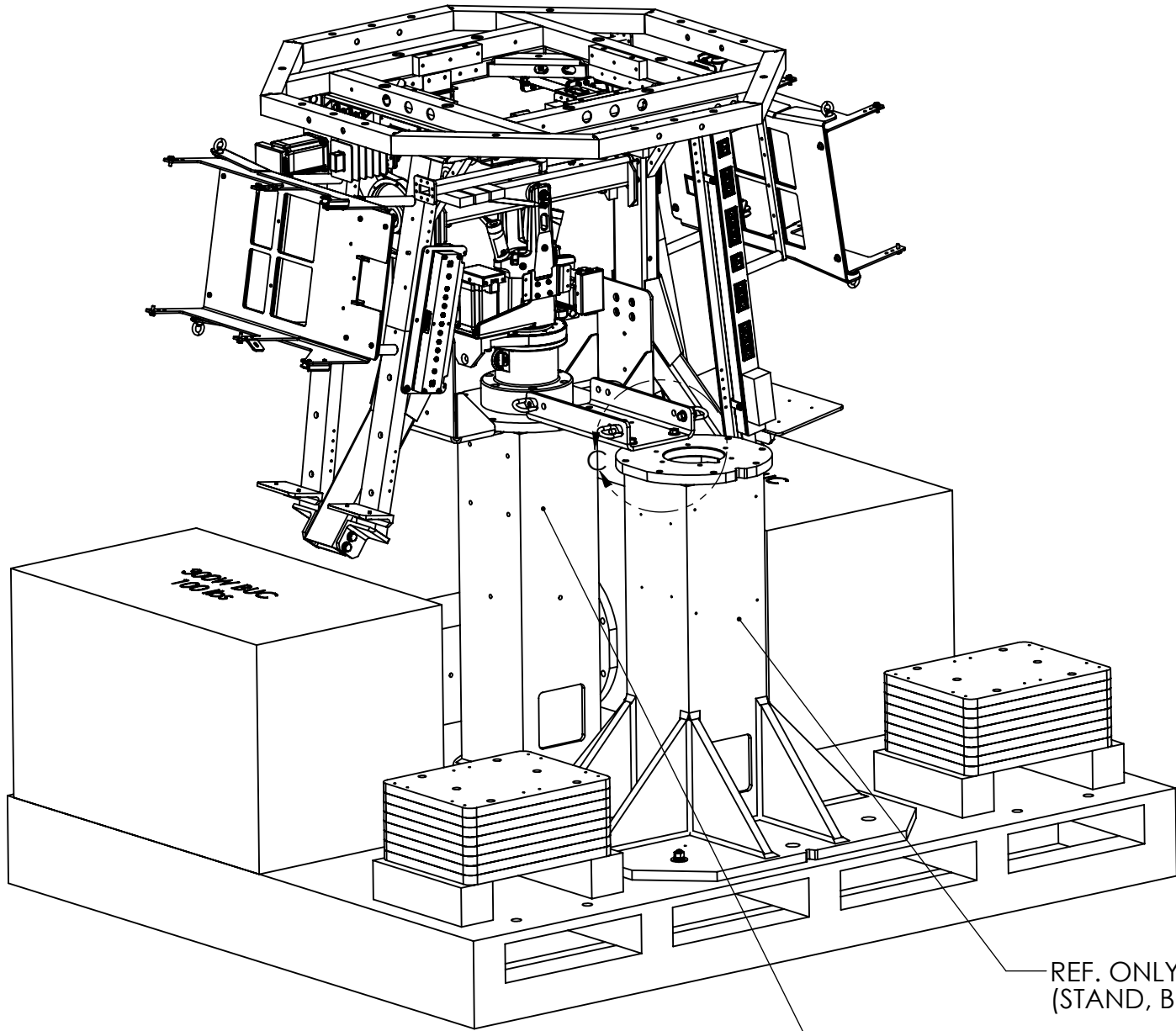
NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY.



SIZE	SCALE:	DRAWING NUMBER	REV
B	1:16	97-167134	A
		SHEET NUMBER	2 OF 6

3) INSTALLATION GUIDE FOR BRACKET, LIFTING SPREADER 41-169162-A
THIS BRACKET IS USEFUL FOR TWO PURPOSE:
A) DURING SHIPMENT OF GENERAL ASSEMBLY, T6000 AND
B) GUIDE BRACKET FOR ON-SITE ASSEMBLY OF T6000

A) USE OF BRACKET DURING SHIPPING
(DO NOT USE LOCTITE)



DETAIL C
SCALE 1 : 3

NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY.

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:16	97-167134	A
		SHEET NUMBER	3 OF 6



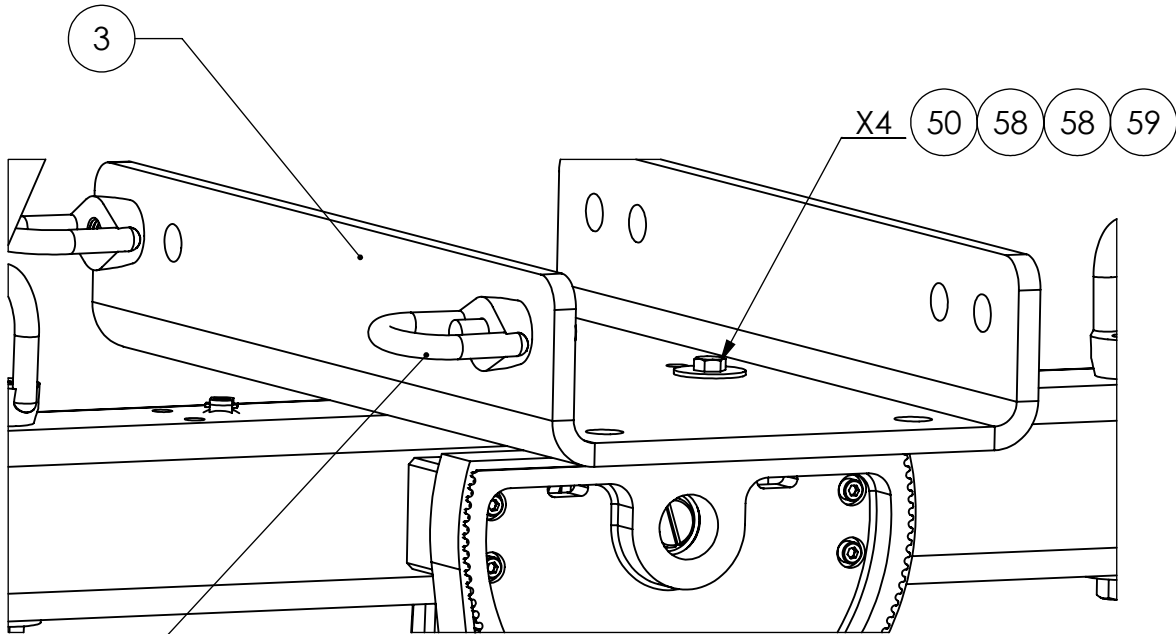
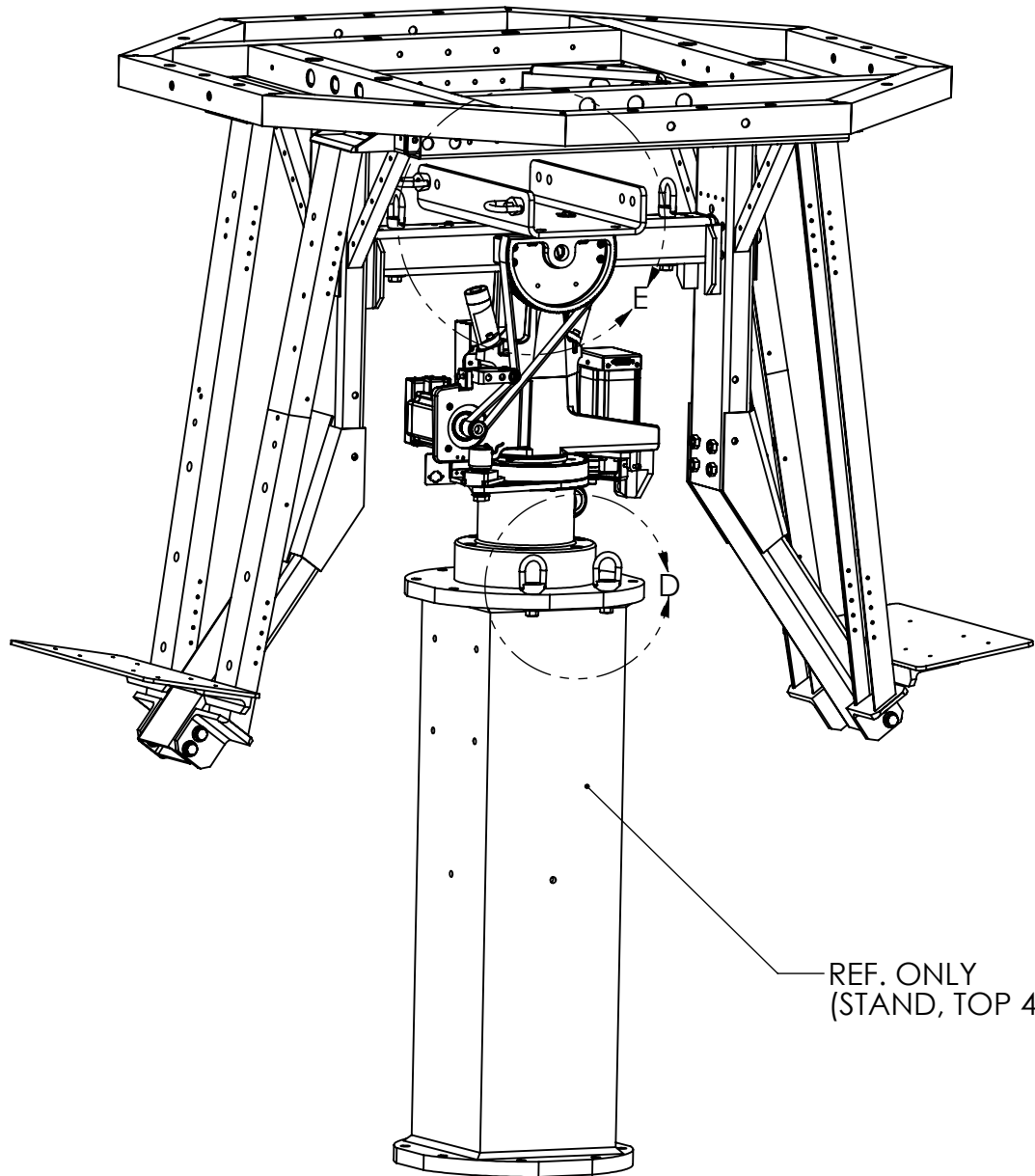
A) USE OF BRACKET DURING SHIPPING
(REF. IMAGES)

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:48	97-167134	A
		SHEET NUMBER	4 OF 6

B) USE OF BRACKET AS A GUIDE/SPREADER
(DO NOT USE LOCTITE)

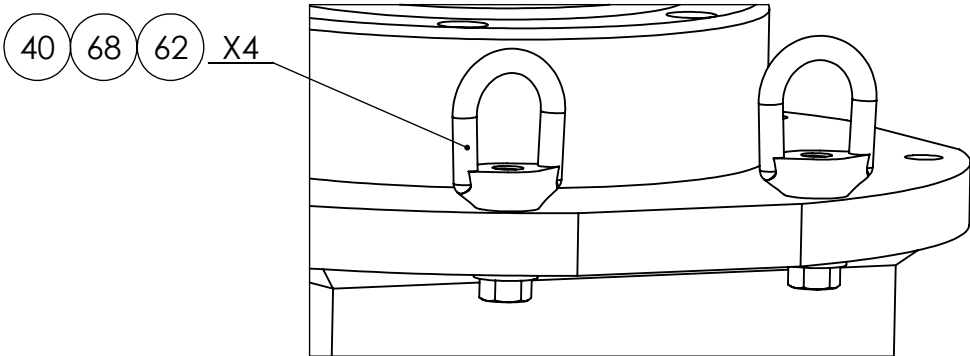
- DO NOT USE BRACKET (41-169162-A) TO LIFT THIS ASSEMBLY
- BRACKET SHOULD BE USED AS A SPREADER/GUIDE ONLY.

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. IMAGE)



DETAIL E
SCALE 1 : 3

-SEE DETAIL VIEW-C FOR
INSTALLATION (INSTRUCTION "USE OF
BRACKET DURING SHIPMENT")
-CHECK HARDWARE ARE NOT LOSE
DUE TO SHIPPING.



DETAIL D
SCALE 1 : 3

NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY.

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:12	97-167134	A
		SHEET NUMBER	5 OF 6



LIFTING STRAP STRAPS ROUTING

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

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

ORACLE BOM Explosion Report

Item Number: 62-162996
Description: ANTENNA ASSY, T6000
Item Revision: A.03 MCO-00049561
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	97-162996	A.02 MCO-00049369	ANTENNA ASSY, T6000	
1	1	pcs	62-163000	A.05 MCO-00049343	FEED TOWER ASSY, T6000	
2	1	pcs	62-170933	A.01 MCO-00049369	REFLECTOR, 6M	
3	3	ea	41-166759-A	02 MCO-00049204	ABSORBER PLATE, OPENING, T6000 FEED	
21	3	ea	41-166762-A	01 MCO-00049204	ABSORBER, OPENING, T6000 FEED	
22	1	pcs	37-165004-A	01 MCO-00045413	WAVEGUIDE, WR159, MULTI BEND, T6000	
23	1	ea	41-166958-A	01 MCO-00049205	STRAP, WR159, T6000	
24	2	pcs	46-207221-001	MCO-00044595	WR112 UG-F/UG-G, RING COUPLER, 40dB, 6.7-7.1MHz	
25	2	pcs	46-207222-000	MCO-00042482	WR112 UG TO UG WAVEGUIDE ISOLATOR, 6.75 - 7.10 GHz	
50	8	ea	114593-145	MCO-00012113	SCREW, SOCKET HD, 8-32 x 1/2, SS.	
51	8	ea	114593-147	MCO-00012113	SCREW, SOCKET HD, 8-32 x 5/8, SS.	
58	8	ea	114580-009	MCO-00012113	WASHER, FLAT, #8, SS.	
60	2	ea	114593-162	MCO-00012113	SCREW, SOCKET HD, 10-32 x 3/8, SS.	
61	12	ea	114593-164	MCO-00037692	SCREW, SOCKET HD, 10-32 x 1/2, SS.	
68	14	ea	114580-011	MCO-00012113	WASHER, FLAT, #10, SS.	
70	8	ea	114593-206	MCO-00012113	SCREW, SOCKET HD, 1/4-20 x 5/8, SS.	
78	8	ea	114580-029	MCO-00012113	WASHER, FLAT, 1/4, SS.	
80	3	ea	51-207518-000	MCO-00044017	SCREW, FLAT HD, SOCKET, 1/2-13 x 2, SS.	
90	4	ea	123618-17	MCO-00012114	GASKET, WR-112, UG-52B/U (1/2)	
91	1	ea	41-123618-29	MCO-00044158	WR159 HALF CPRG WAVEGUIDE GASKET	
92	10	ea	53-207169-000	MCO-00046805	SHIM, 0.002" Thick, .5/8" ID, 1" OD	
93	5	ea	53-207170-000	MCO-00046805	SHIM, 0.005" Thick, .5/8" ID, 1" OD	
94	5	pcs	53-207171-000	MCO-00046805	SHIM, 0.010" Thick, .5/8" ID, 1" OD	
95	3	ea	53-207172-000	MCO-00046805	SHIM, 0.025" Thick, .5/8" ID, 1" OD	
		pcs	62-162996	A.03 ...	ANTENNA ASSY, T6000	

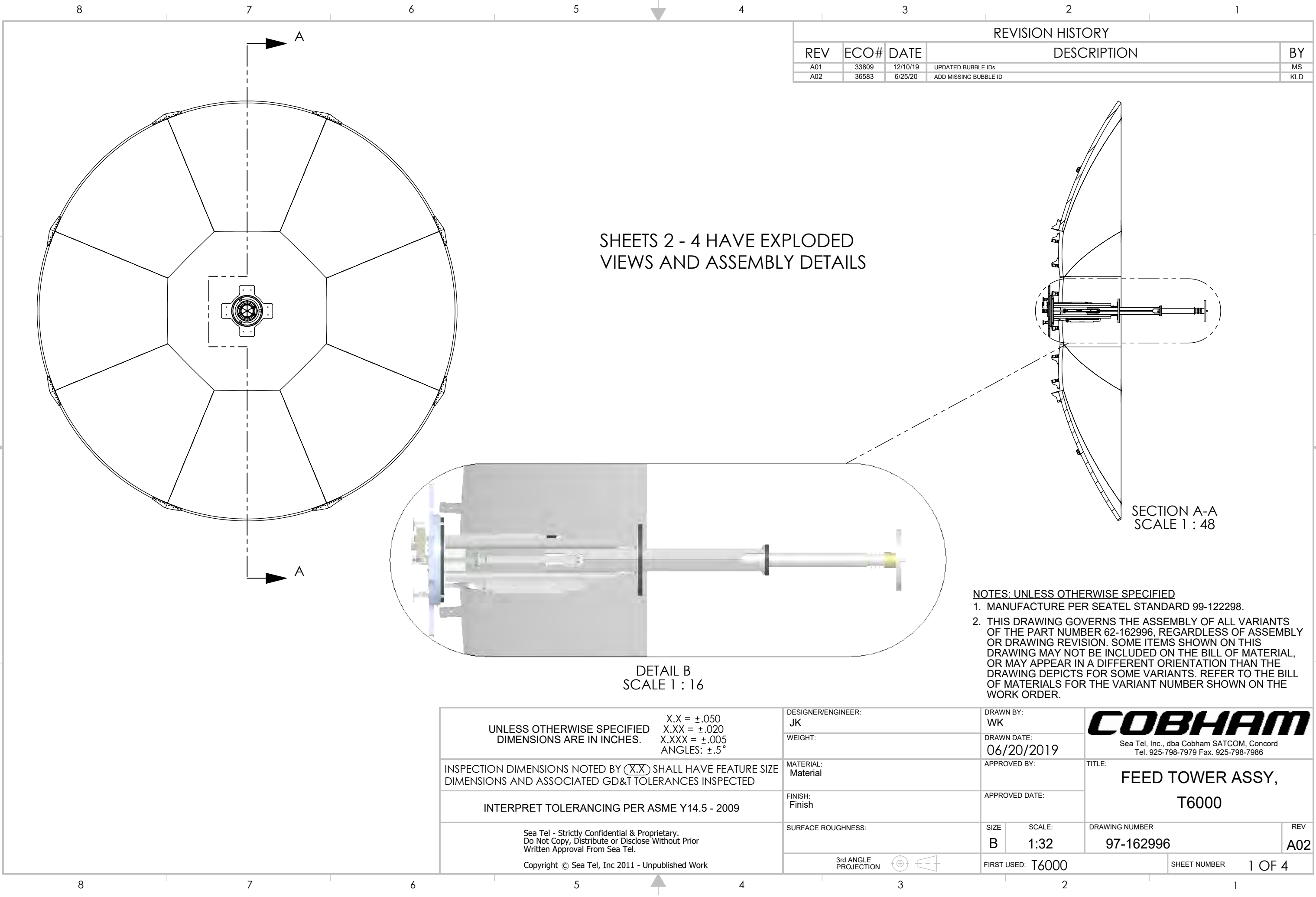
Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-162996
Description: ANTENNA ASSY, T6000
Item Revision: A.03 MCO-00049561
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
				...MCO-00049561		

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT




REVISION HISTORY				
REV	ECO#	DATE	DESCRIPTION	BY
A01	33809	12/10/19	UPDATED BUBBLE IDs	MS
A02	36583	6/25/20	ADD MISSING BUBBLE ID	KLD

SHEETS 2 - 4 HAVE EXPLODED
VIEWS AND ASSEMBLY DETAILS

SECTION A-A
SCALE 1 : 48

DETAIL B
SCALE 1 : 16

- NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
 2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-162996, 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.

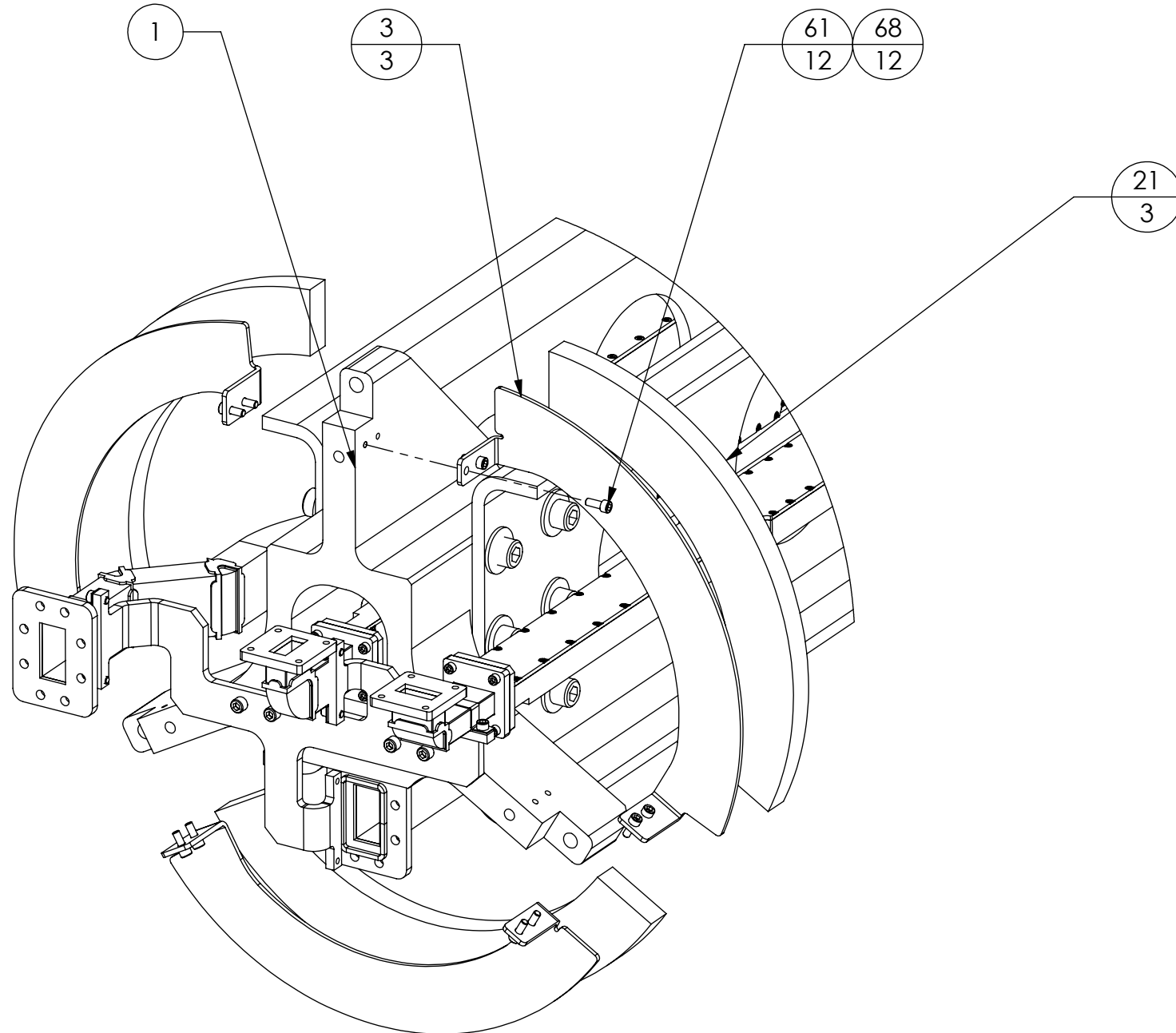
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.	X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5°	DESIGNER/ENGINEER: JK	DRAWN BY: WK		<div>COBHAM</div> <div>Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986</div>	
	WEIGHT:	DRAWN DATE: 06/20/2019				
INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED	MATERIAL: Material	APPROVED BY:		TITLE: FEED TOWER ASSY, T6000		
	FINISH: Finish	APPROVED DATE:				
INTERPRET TOLERANCING PER ASME Y14.5 - 2009	SURFACE ROUGHNESS:	SIZE B	SCALE: 1:32	DRAWING NUMBER 97-162996		REV A02
Sea Tel - Strictly Confidential & Proprietary. Do Not Copy, Distribute or Disclose Without Prior Written Approval From Sea Tel.	<div>3rd ANGLE PROJECTION</div> <div></div>	FIRST USED: T6000			SHEET NUMBER 1 OF 4	
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D

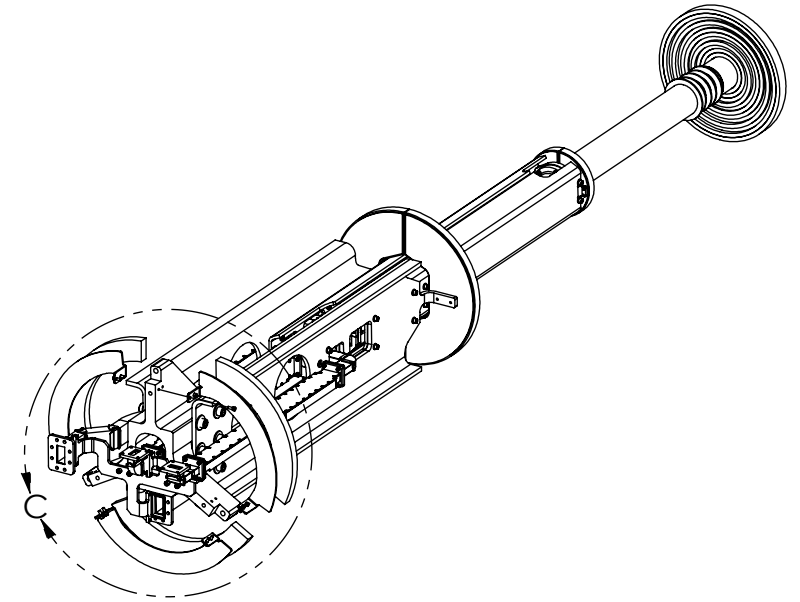
C

B

A



DETAIL C
SCALE 1 : 4



D

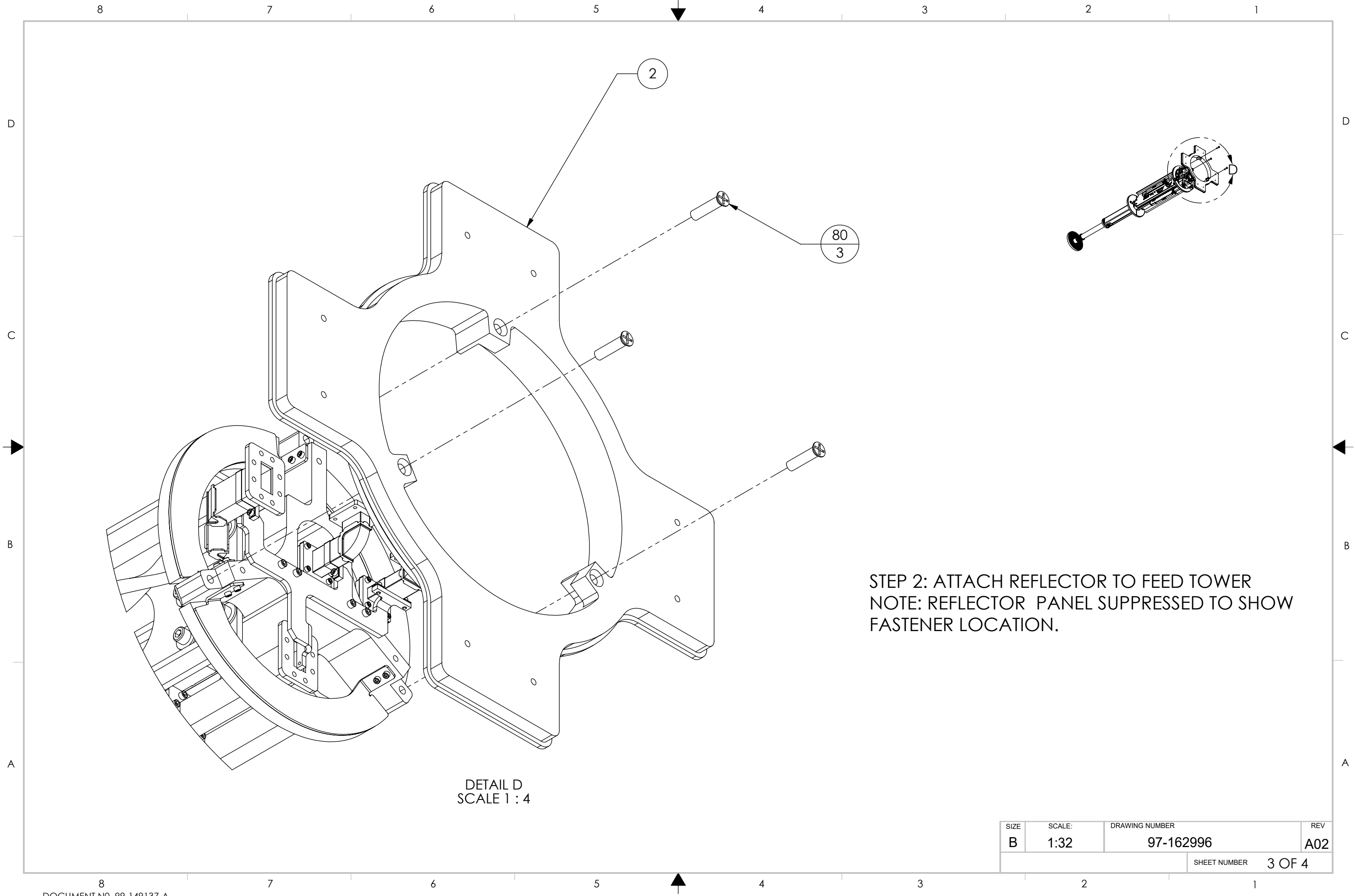
C

B

A

STEP 1: ATTACH ABSORBER TO FEED TOWER
NOTE: REFLECTOR PANEL SUPPRESSED FOR CLARITY.

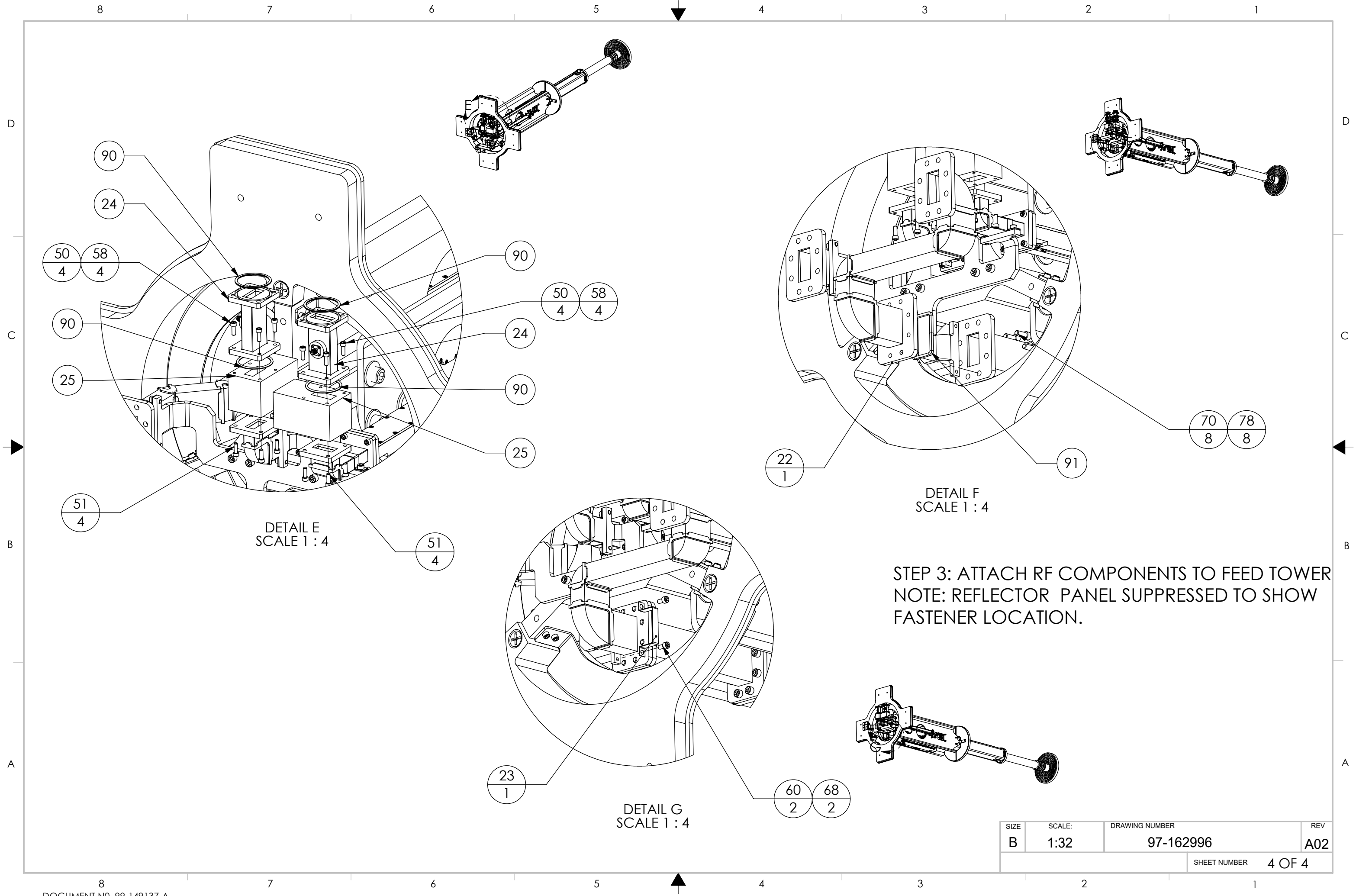
SIZE	SCALE:	DRAWING NUMBER	REV
B	1:32	97-162996	A02
		SHEET NUMBER	2 OF 4



DETAIL D
SCALE 1 : 4

STEP 2: ATTACH REFLECTOR TO FEED TOWER
NOTE: REFLECTOR PANEL SUPPRESSED TO SHOW
FASTENER LOCATION.

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:32	97-162996	A02
		SHEET NUMBER	3 OF 4



ORACLE BOM Explosion Report

Item Number: 62-163000
Description: FEED TOWER ASSY, T6000
Item Revision: A.05 MCO-00049343
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	97-163000	A.01 MCO-00049343	FEED TOWER ASSY, T6000	
1	1	pcs	62-166765	A.04 MCO-00049240	FEED TOWER, T6000 FEED	
2	2	pcs	46-163106-A	01 MCO-00049235	BAND PASS FILTER, WR112, 6.875 - 7.055 GHz	
3	2	pcs	46-163006-A	01 MCO-00049235	WR159 BAND PASS FILTER, 5-5.25 GHz	
4	1	pcs	41-167316-A	01 MCO-00049205	WAVEGUIDE, WR-112 UG, 90 DEG H-BEND,	
5	1	pcs	37-165007-A	01 MCO-00045413	WAVEGUIDE, WR112, E-BEND, 1.26X2.98" T6000	
6	1	pcs	41-166956-A	01 MCO-00049205	WAVEGUIDE ELBOW, WR112, RECEIVE LINE, T6000	
7	1	pcs	37-165006-A	01 MCO-00045413	WAVEGUIDE, WR159, 7.94" EXTENTION, T6000	
8	1	pcs	37-165005-A	01 MCO-00045413	WAVEGUIDE, WR159, TWIST MULTI BEND, T6000	
10	1	ea	41-166955-A	02 MCO-00049205	BRACKET, WG MOUNT, FEED, T6000	
11	2	ea	115998-4	J.07 ECO-00034906	STRAP, RIGID WAVEGUIDE, WR-112 E	
12	1	ea	41-166958-A	01 MCO-00049205	STRAP, WR159, T6000	
13	2	ea	41-166760-A	01 MCO-00049204	ABSORBER PLATE, BOTTOM, T6000 FEED	
14	1	ea	41-166763-A	01 MCO-00049204	ABSORBER, BOTTOM, T6000 FEED	
15	2	ea	41-166761-A	01 MCO-00049204	ABSORBER PLATE, TOP, T6000 FEED	
16	1	ea	41-166764-A	01 MCO-00049204	ABSORBER, TOP, T6000 FEED	
50	4	pcs	51-207503-000	MCO-00042655	SCREW, FLAT HD, SKT DRV, 8-32 X 7/16 IN	
51	8	ea	114593-145	MCO-00012113	SCREW, SOCKET HD, 8-32 x 1/2, SS.	

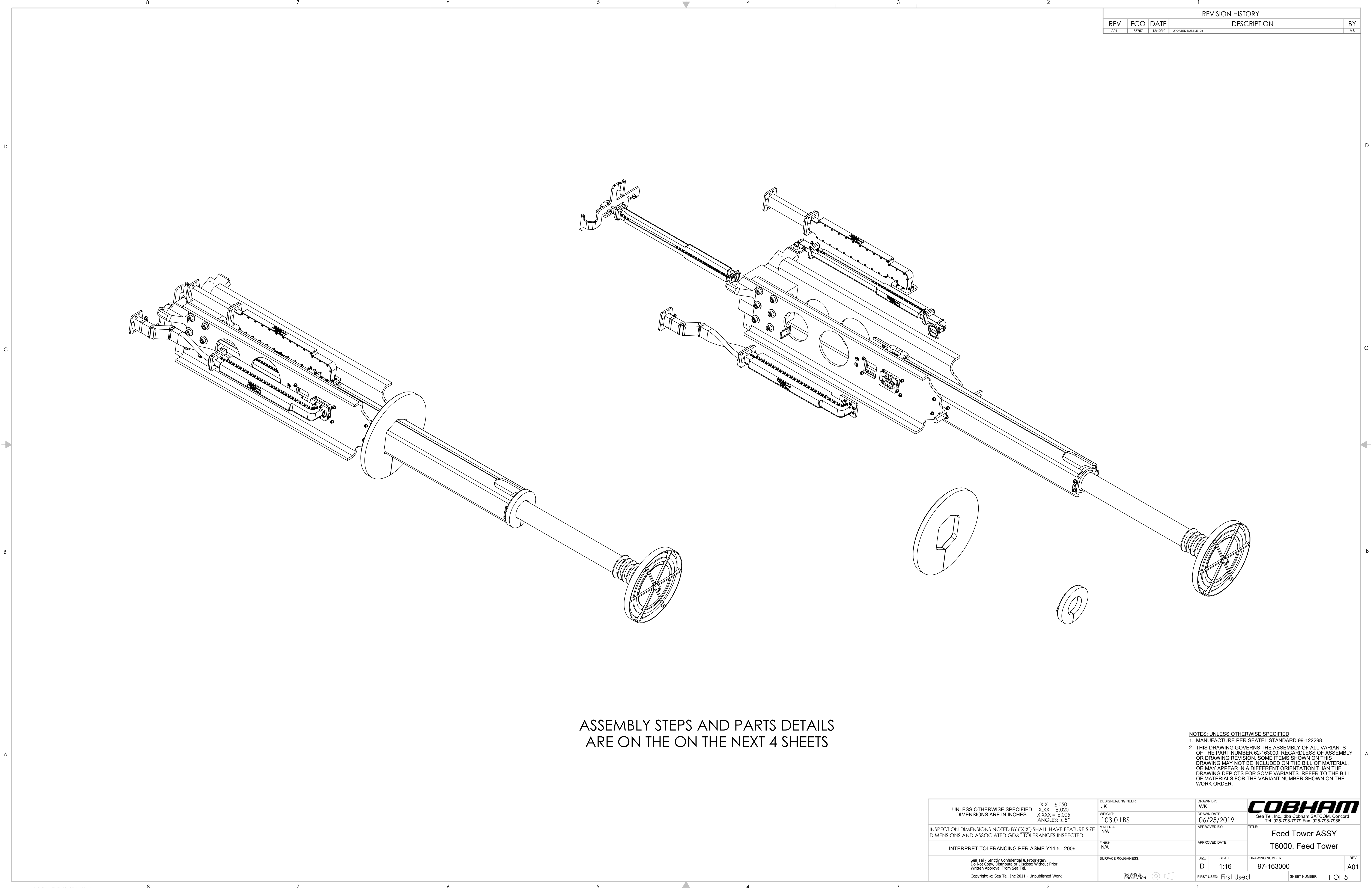
Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-163000
Description: FEED TOWER ASSY, T6000
Item Revision: A.05 MCO-00049343
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
52	4	pcs	51-207502-000	MCO-00042655	SCREW, FLAT HD, SKT DRV, 8-32 X 9/16 IN	
53	6	ea	114593-147	MCO-00012113	SCREW, SOCKET HD, 8-32 x 5/8, SS.	
58	30	ea	114580-009	MCO-00012113	WASHER, FLAT, #8, SS.	
60	6	ea	114593-162	MCO-00012113	SCREW, SOCKET HD, 10-32 x 3/8, SS.	
68	6	ea	114580-011	MCO-00012113	WASHER, FLAT, #10, SS.	
71	28	ea	114593-206	MCO-00012113	SCREW, SOCKET HD, 1/4-20 x 5/8, SS.	
72	4	ea	114593-207	MCO-00012113	SCREW, SOCKET HD, 1/4-20 x 3/4, SS.	
73	4	ea	114592-539	MCO-00012113	STUD, FULLY THREADED, 1/4-20 x 7/8, SS.	
78	38	ea	114580-029	MCO-00012113	WASHER, FLAT, 1/4, SS.	
79	4	ea	114583-029	MCO-00012113	NUT, HEX, 1/4-20, SS.	
80	5	ea	123618-17	MCO-00012114	GASKET, WR-112, UG-52B/U (1/2)	
81	4	ea	41-123618-29	MCO-00044158	WR159 HALF CPRG WAVEGUIDE GASKET	
		pcs	62-163000	A.05 MCO-00049343	FEED TOWER ASSY, T6000	

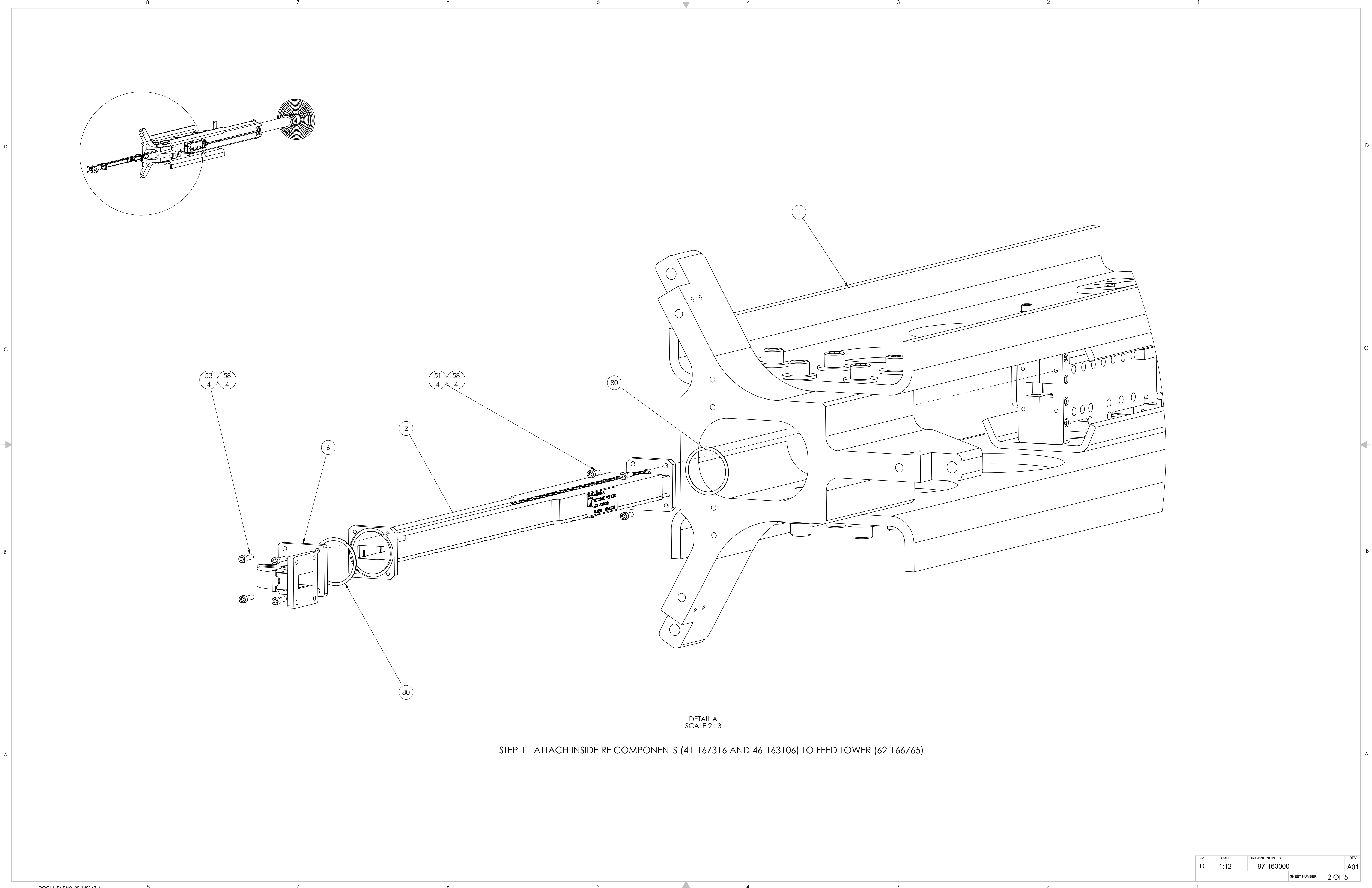
Created By: Mike Needham
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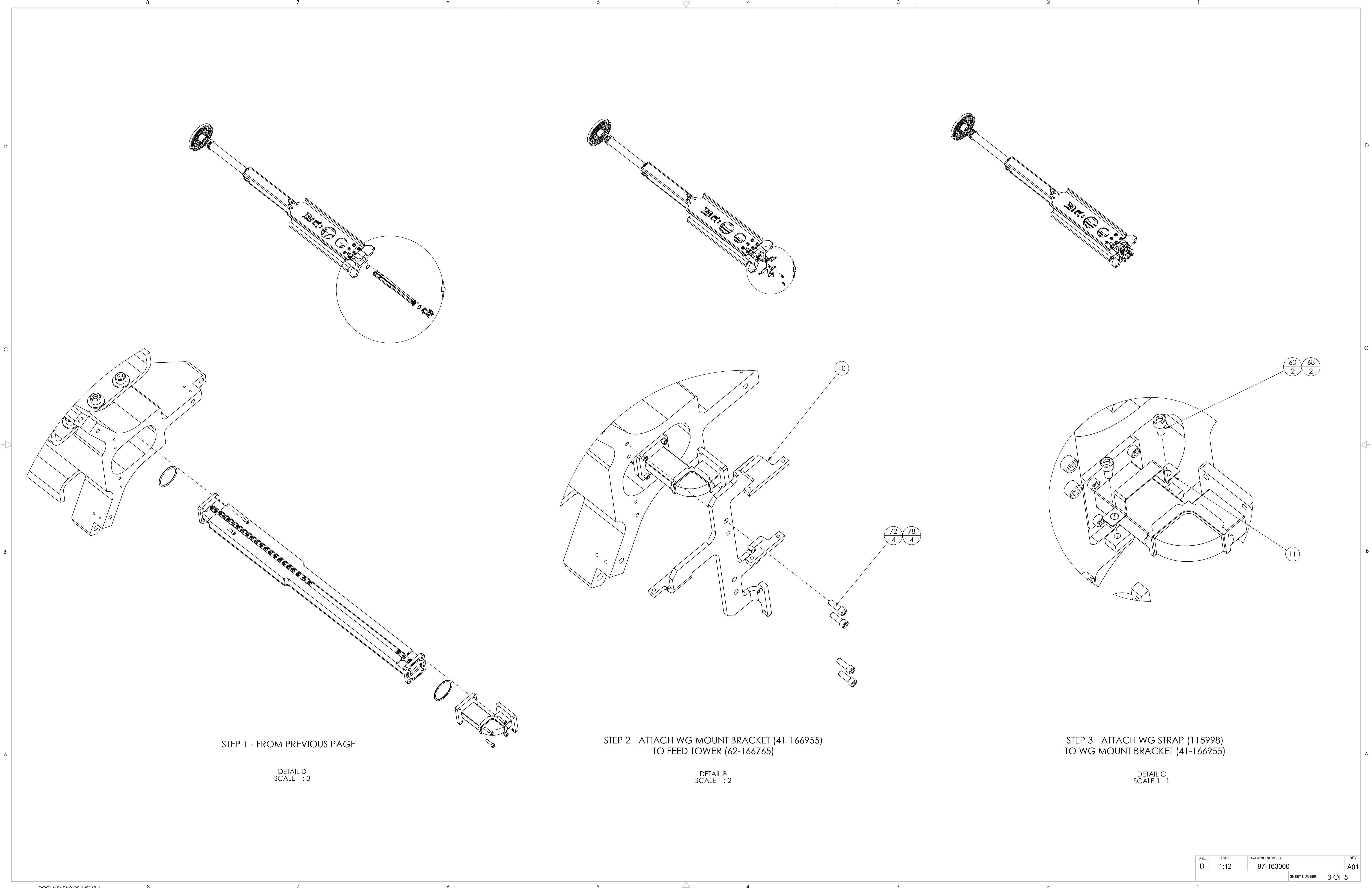


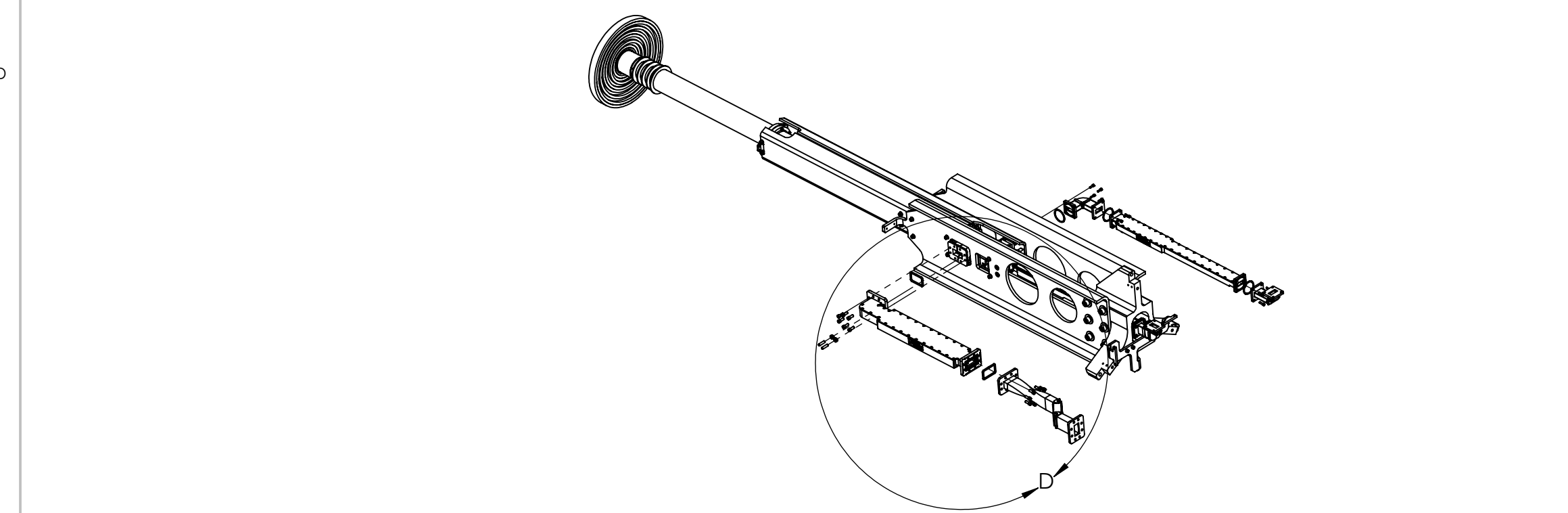
ASSEMBLY STEPS AND PARTS DETAILS
ARE ON THE ON THE NEXT 4 SHEETS

NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-163000, 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: JK	DRAWN BY: WK	<div>COBHAM</div> <div>Sea Tel, Inc. dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986</div>		
	WEIGHT: 103.0 LBS	DRAWN DATE: 06/25/2019				
INSPECTION DIMENSIONS NOTED BY (XX) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED		MATERIAL: N/A	APPROVED BY:	TITLE: Feed Tower ASSY		
INTERPRET TOLERANCING PER ASME Y14.5 - 2009		FINISH: N/A	APPROVED DATE:	T6000, Feed Tower		
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	SCALE:	DRAWING NUMBER	REV
			D	1:16	97-163000	A01
		3rd ANGLE PROJECTION	FIRST USED	First Used	SHEET NUMBER	1 OF 5

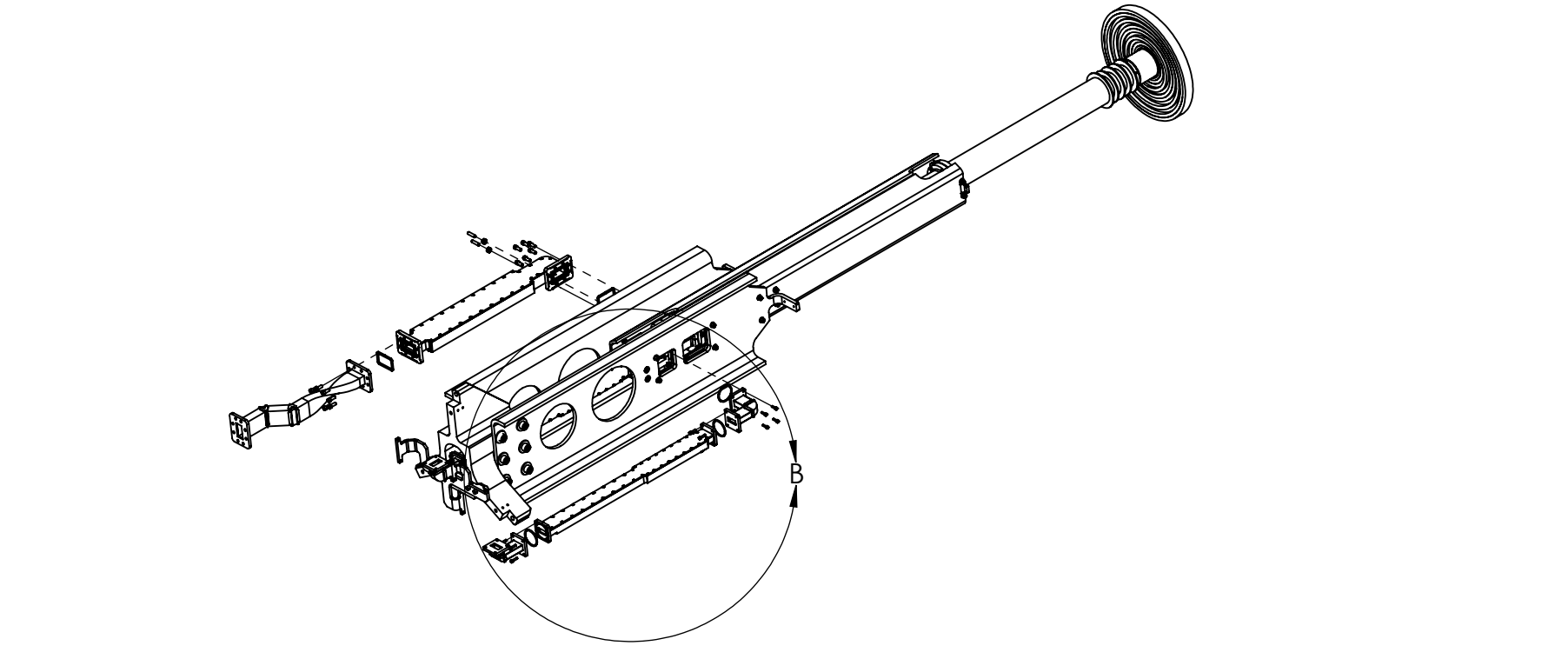






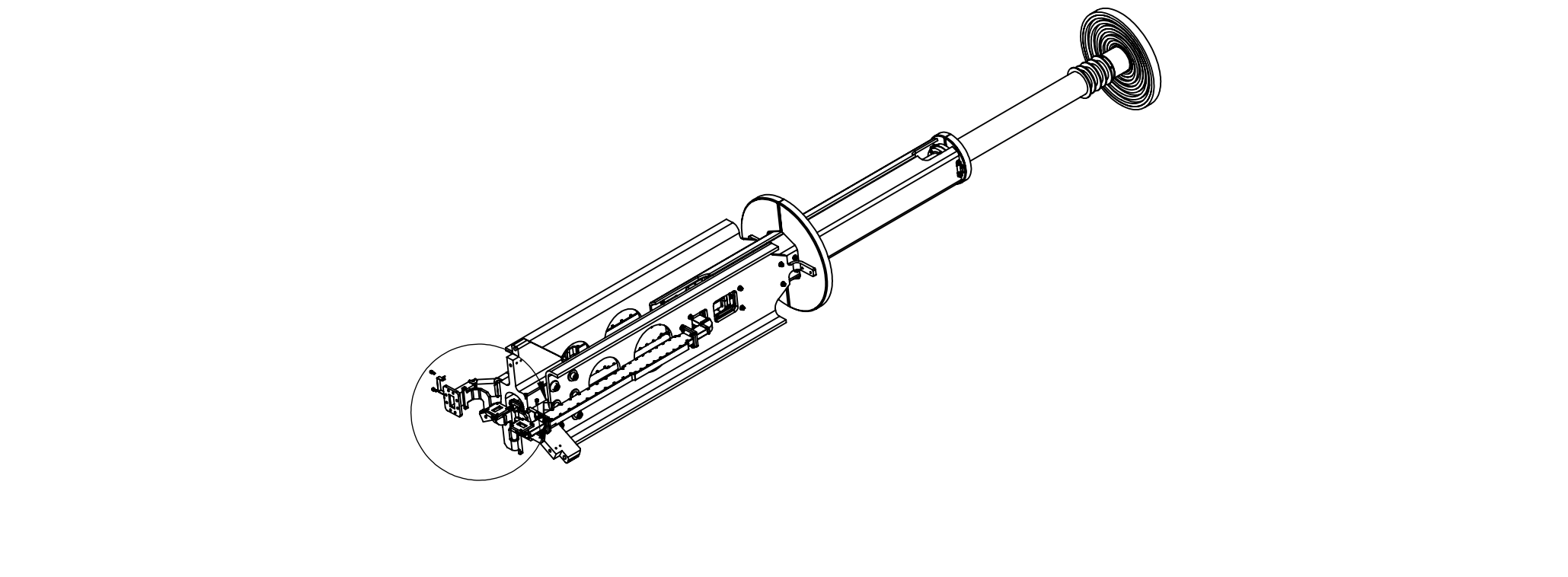
STEP 4 - ATTACH INSIDE RF COMPONENTS (46-163006 AND 37-165005) TO FEED TOWER (62-166765)

DETAIL D
SCALE 1 : 3



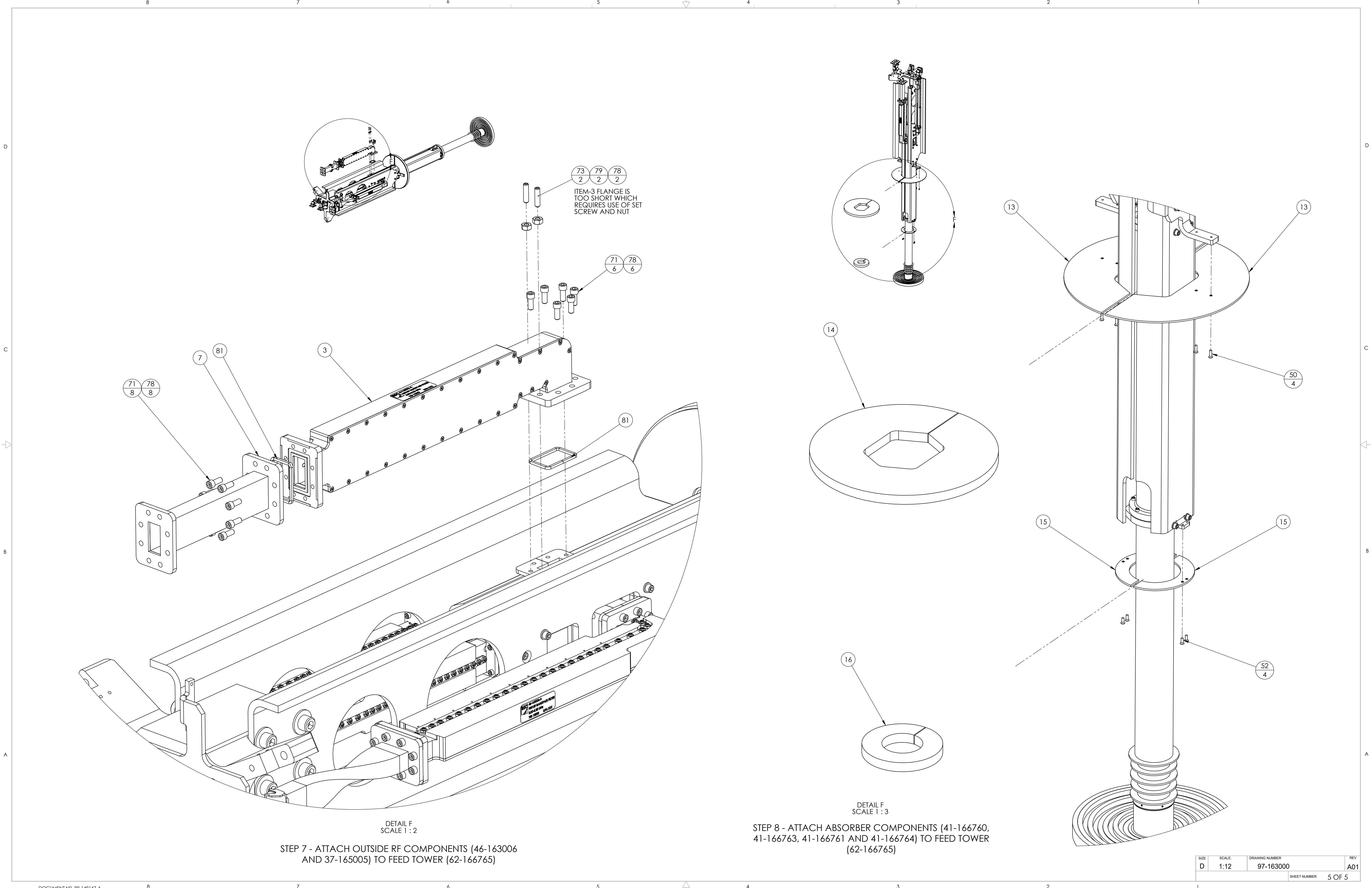
STEP 5 - ATTACH INSIDE RF COMPONENTS (37-165007, 46-163106 AND 41-167316) TO FEED TOWER (62-166765)

DETAIL B
SCALE 1 : 3



STEP 6 - ATTACH WG STRAPS (115998 AND 41-166958) TO WG MOUNT BRACKET (41-166955)

DETAIL E
SCALE 1 : 1.5



ORACLE BOM Explosion Report

Item Number: 62-172014

Description: KIT, BALANCE WEIGHT, T6000

Item Revision: A.04 ECO-00036560

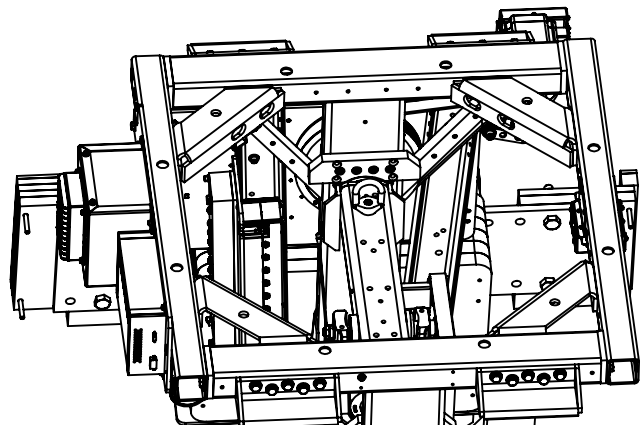
Date as of: 07/31/2020 09:35:38 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	ea	97-172014	A.01 MCO-00049240	ASSY DRAWING, BALANCE WEIGHT KIT, T6000	
1	4	ea	128595-1	A.01 ECO-00008544	WEIGHT MOUNTING PLATE	
2	10	ea	108724-1	C.02 MCO-00015435	PLATE, COUNTER WEIGHT, 3/4 X 7-1/4 X 10	
3	2	ea	108724-3	C.02 ECO-00008542	PLATE, COUNTER WEIGHT, 1/2 X 7-1/4 X 10	
4	4	ea	108894-3	G.02 ECO-00008542	WEIGHT, TRIM, 1/2 X 3 X 10, 4.25 LBS	
5	1	ea	108894-4	G.02 ECO-00008542	WEIGHT, TRIM, 1/4 X 3 X 10, 2.12 LBS	
6	2	ea	108894-7	G.02 ECO-00008542	WEIGHT, TRIM, 1 X 1 X 10, 2.8 LBS	
7	2	ea	108894-1	G.02 ECO-00008542	WEIGHT, TRIM, 1/4 X 1 X 10, .71 LBS	
50	2	ea	114586-547	MCO-00012113	SCREW, HEX HD, 1/4-20 x 3, SS.	
51	2	ea	114586-548	MCO-00012113	SCREW, HEX HD, 1/4-20 x 3-1/4, SS.	
52	2	ea	114586-553	MCO-00012113	SCREW, HEX HD, 1/4-20 x 5, SS.	
58	12	ea	114580-029	MCO-00012113	WASHER, FLAT, 1/4, SS.	
59	6	ea	114583-029	MCO-00012113	NUT, HEX, 1/4-20, SS.	
60	8	ea	114586-674	MCO-00012113	SCREW, HEX HD, 1/2-13 x 1-1/2, SS.	
61	2	ea	114586-679	MCO-00012113	SCREW, HEX HD, 1/2-13 x 2-3/4, SS.	
62	4	ea	114586-683	MCO-00012113	SCREW, HEX HD, 1/2-13 x 3-3/4, SS.	
63	2	ea	114586-684	MCO-00012113	SCREW, HEX HD, 1/2-13 x 4, SS.	
68	24	ea	53-207137-500	MCO-00032624	WASHER, FLAT, 1/2, 1.250 OD, 18-8, ASTM A380	
69	8	ea	114583-033	MCO-00012113	NUT, HEX, 1/2-13, SS.	
		ea	62-172014	A.04 ECO-00036560	KIT, BALANCE WEIGHT, T6000	

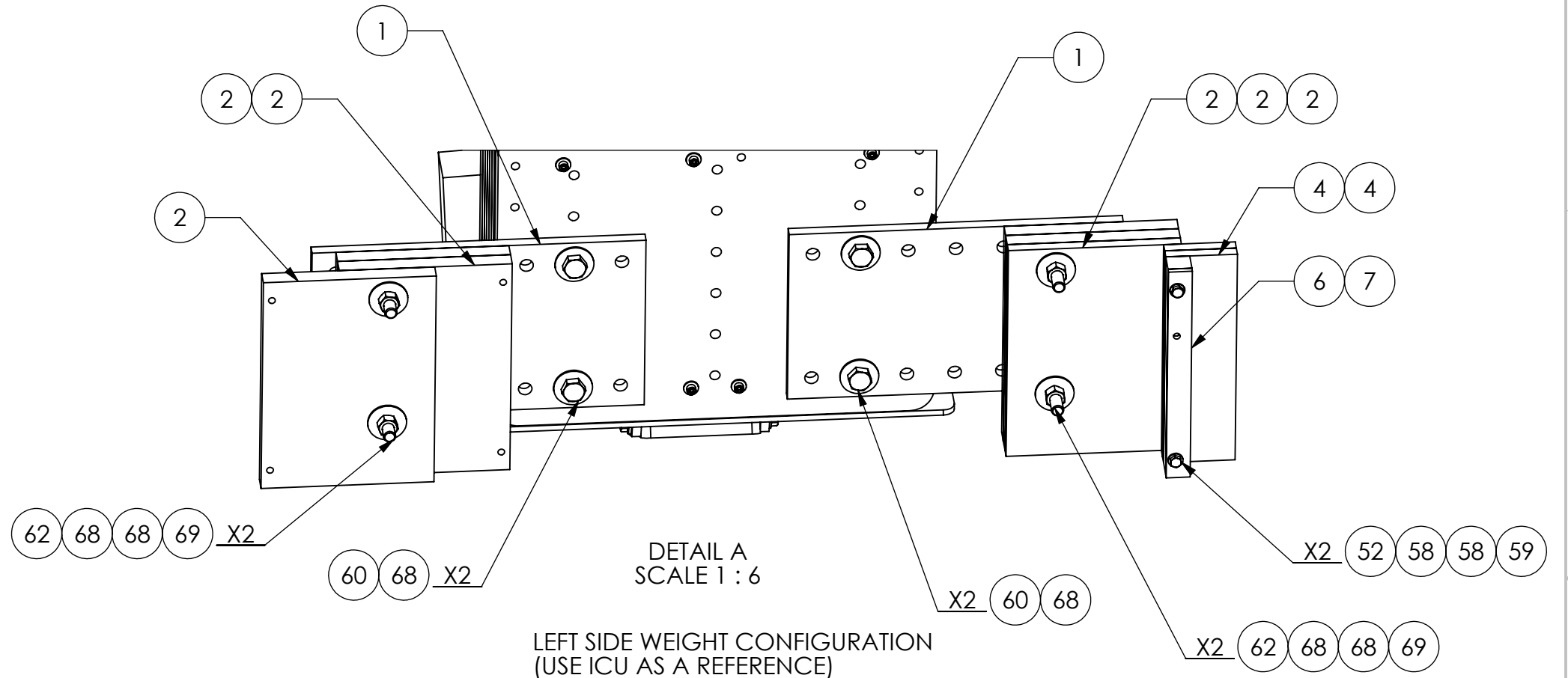
Created By: Mike Needham

Create Time: 07/31/2020 09:35:48 AM PDT

REVISION HISTORY				
REV	ECO	DATE	DESCRIPTION	BY
A01	36181	5/12/20	UPDATED BALANCE WEIGHT CONFIGURATION	MS



ICU
(REF. ONLY)



DETAIL A
SCALE 1 : 6

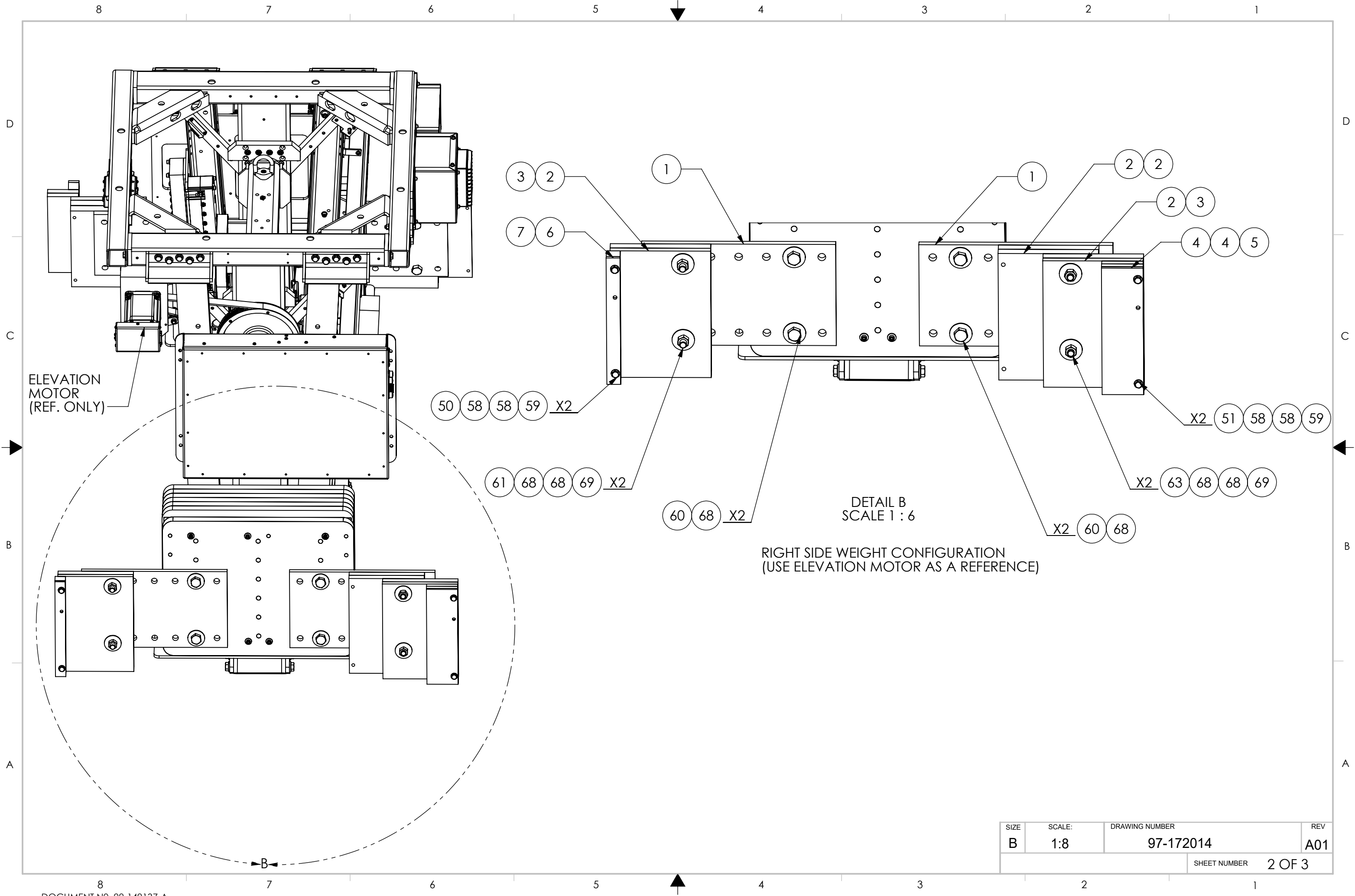
LEFT SIDE WEIGHT CONFIGURATION
(USE ICU AS A REFERENCE)

NOTES:
-KEEP INTERFACE PLATE (ITEM-100 FROM BOM 62-163093) ON TOP.
-SEE DRAWING 97-163093 AND BOM 62-163093 FOR ASSEMBLY INSTRUCTIONS.

NOTES:
-HARDWARE ITEM 102 (CHANNEL NUT), ITEM 104 (SCREW), ITEM 105 (WASHER) FROM BOM 62-163093 CAN BE ADJUSTED AS PER WEIGHT CONFIGURATION. USE ATLEAST 5 PAIRS OF CHANNEL NUT, SCREW AND WASHER TO MOUNT INTERFACE PLATE. FOR EXAMPLE, THIS DRAWAING SHOWS 3 SCREW ON UPPER SIDE AND 2 AT THE BOTTOM.
-SEE DRAWING 97-163093 AND BOM 62-163093 FOR ASSEMBLY INSTRUCTIONS.

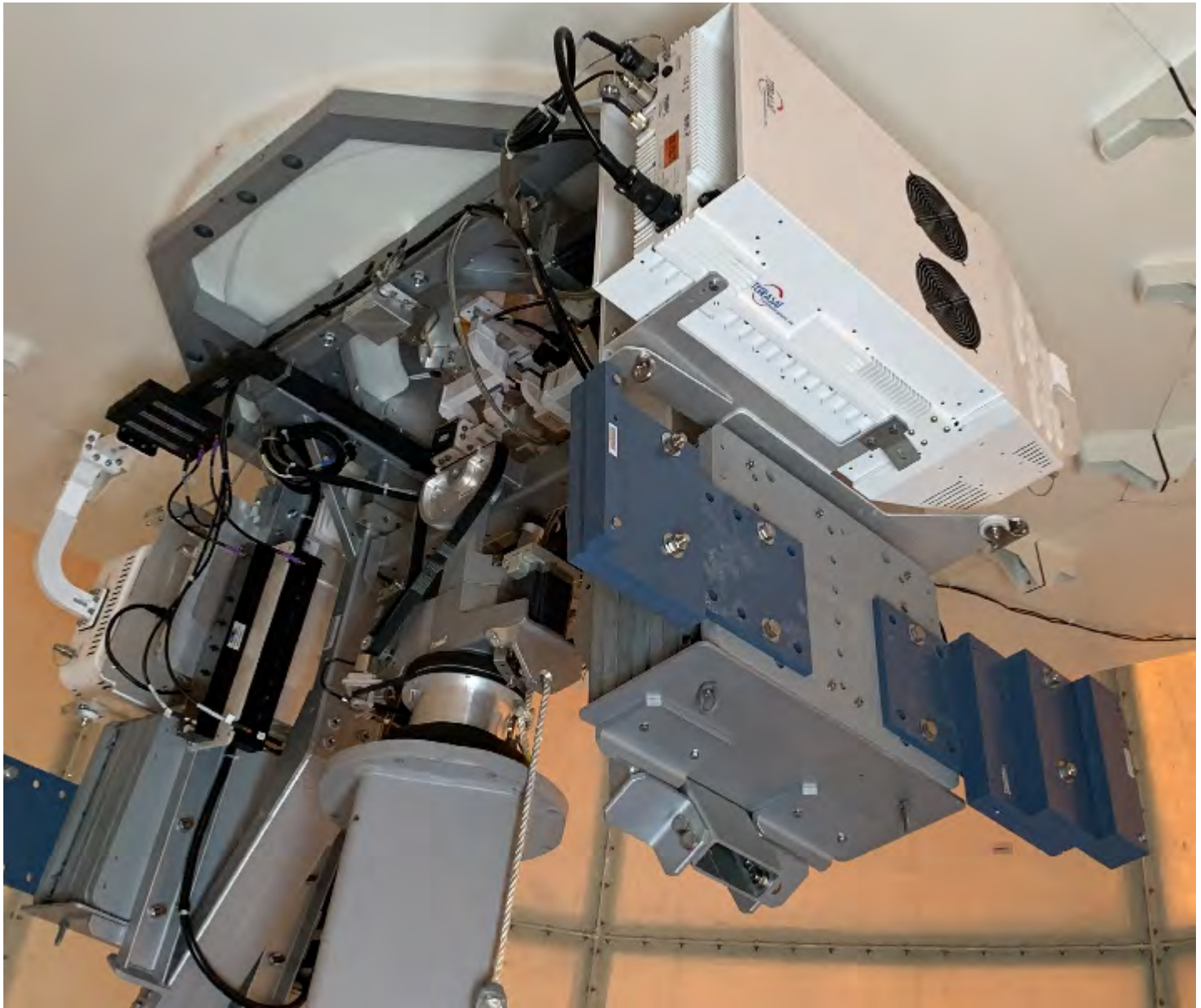
NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-172014, REGARDLESS OF ASSEMBLY OR DRAWING REVISION. SOME ITEMS SHOWN ON THIS DRAWING MAY NOT BE INCLUDED ON THE BILL OF MATERIAL, OR MAY APPEAR IN 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.
3. COUNTERWEIGHTS SHOWN ARE STARTING POINT ONLY. TRIM/ADJUST AS NEEDED TO ACHIEVE PROPER BALANCE.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.	X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5°	DESIGNER/ENGINEER: TE	DRAWN BY: MS		<div>COBHAM</div> <div>Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986</div>		
		WEIGHT: N/A	DRAWN DATE: 03/10/2020				
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, BALANCE WEIGHT, T6000		
		FINISH: N/A	APPROVED DATE:				
INTERPRET TOLERANCING PER ASME Y14.5 - 2009		SURFACE ROUGHNESS:		SIZE B	SCALE: 1:12	DRAWING NUMBER 97-172014	REV A01
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		<div>3rd ANGLE PROJECTION</div> <div></div>		FIRST USED:		SHEET NUMBER 1 OF 3	





LEFT SIDE WEIGHT CONFIGURATION
(USE ICU AS A REFERENCE)



RIGHT SIDE WEIGHT CONFIGURATION
(USE ELEVATION MOTOR AS A REFERENCE)

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:16	97-172014	A01
		SHEET NUMBER	3 OF 3

ORACLE BOM Explosion Report

Item Number: 62-170239
Description: HARDWARE KIT, FIELD INSTALLATION, TRACKER 6000
Item Revision: A.03 MCO-00049343
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
1	1	pcs	62-170236	A.01 MCO-00049343	HARDWARE KIT, BUC MOUNTING	
2	2	pcs	62-170233	A.01 MCO-00049343	HARDWARE KIT, WAVEGUIDE TO BUC	
3	1	pcs	62-170299	A.01 MCO-00049343	HARDWARE KIT, LNB	
4	1	pcs	62-170237	A.03 MCO-00049343	HARDWARE KIT, BALANCE WEIGHTS	
5	1	pcs	62-170230	A.01 MCO-00049343	HARDWARE KIT, REFLECTOR TO MOUNTING WELDMENT	
6	1	pcs	62-170231	A.01 MCO-00049343	HARDWARE KIT, ABSORBER PLATES TO FEED	
7	1	pcs	62-170240	A.01 MCO-00049343	HARDWARE KIT, FEED TO REFLECTOR HUB	
8	1	pcs	62-170238	A.02 MCO-00049343	HARDWARE KIT, FEED & BASEBALL SWITCH TO WAVEGUIDE	
9	1	pcs	62-170232	A.01 MCO-00049343	HARDWARE KIT, BASE STAND ASS"Y	
10	1	ea	48-207483-000	MCO-00046423	LUBRICANT, ELETRICAL CONTACT, CONDUCTIVE	
20	1	ea	48-207231-003	MCO-00015399	BOX, BROWN, 28 X 16 X 14	
		pcs	62-170239	A.03 MCO-00049343	HARDWARE KIT, FIELD INSTALLATION, TRACKER 6000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-172181

Description: RADOME ASSY, GA INSTALL, 8.0M, KATX-E, LEO, WHITE

Item Revision: A MCO-00049343

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

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	B
0	REF	pcs	94-163300	A MCO-00049343	SITE ARRANGEMENT, RADOME PAD, 8.0M, LEO	
0	REF	pcs	97-163300	A MCO-00049343	ASSY DWG, RADOME GA INSTALL, 8.0M, T6000	
1	1	pcs	88-208026-SAAA	B MCO-00049206	RADOME ASSY, 8.0M (30FT), C-XTX, SIDE DOOR, WHITE	
10	16	ea	119918	01 ECO-00013239	STRAP, RADOME	
20	1	pcs	62-156979	A MCO-00049240	KIT, SNOW ROPE ASSEMBLY	Not shown. In on anticipated instructions inc
30	1	pcs	62-171768	A.03 MCO-00049240	KIT, OBSTRUCTION LIGHT AND LIGHTNING DIVERter	
40	1	pcs	62-170734	A.02 MCO-00049343	HARDWARE KIT, RADOME ASSY, 8.0M, T6000	
		pcs	62-172181	A MCO-00049343	RADOME ASSY, GA INSTALL, 8.0M, KATX-E, LEO, WHITE	

Created By: Mike Needham

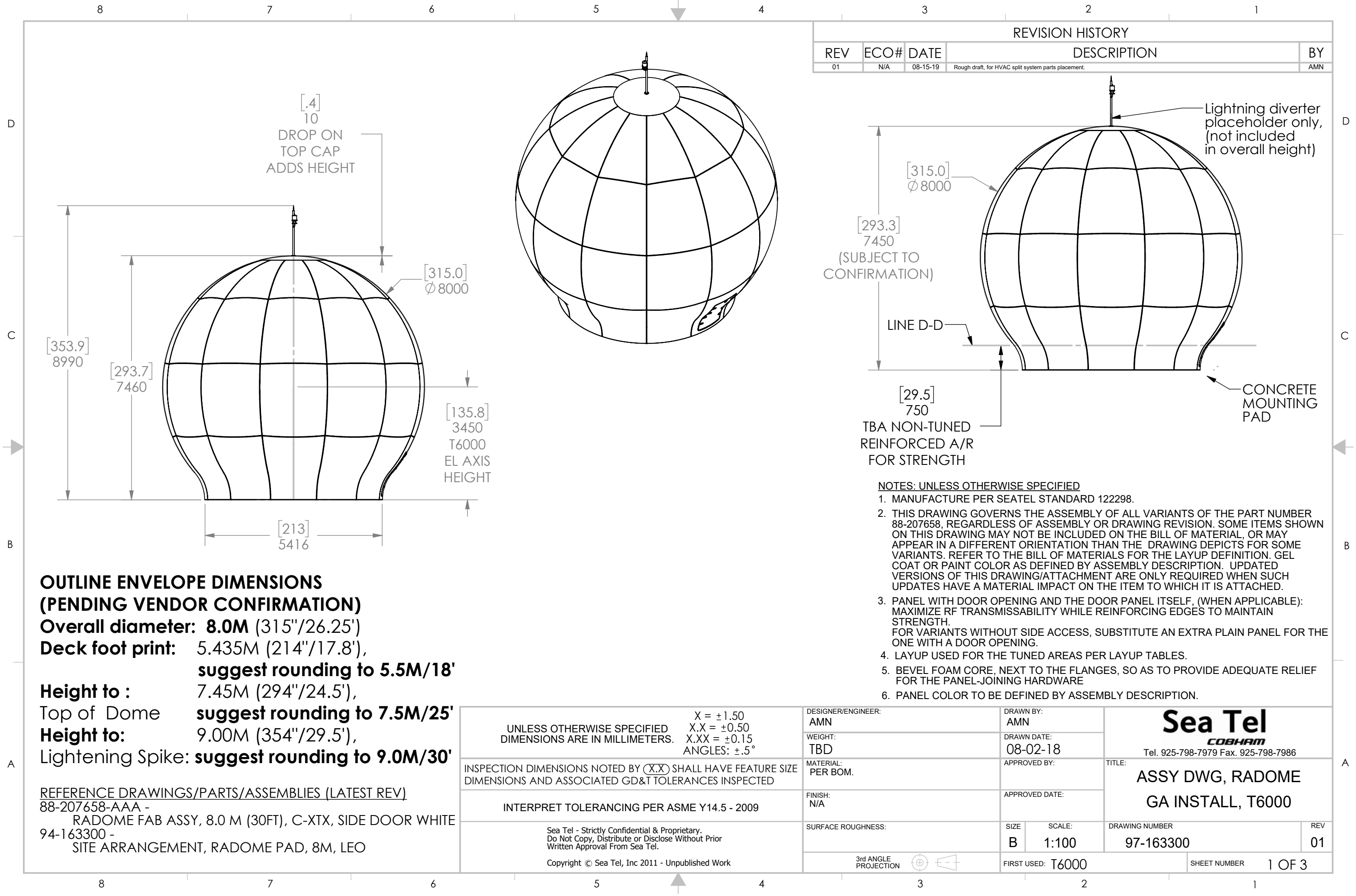
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

Item Number: 88-207658-SAAA
Description: RADOME PANEL SET, 8.0M, C-XTX, SIDE DOOR, WHITE
Item Revision: Introductory
Date as of: 07/09/2020 11:46:54 AM PDT

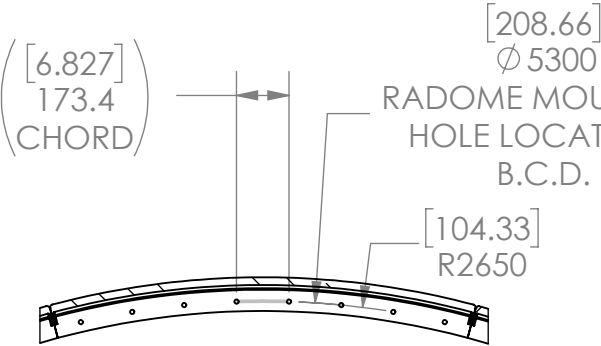
Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM N
1	1	pcs	88-124573-S	01 MCO-00049206	RADOME TUNED LAYUP, C-XTX, LARGE (ALT)	Defines tuned are
2	1	pcs	97-122979-NN	A ECO-00033235	COLOR SAMPLE LISTING	Reference for col
10	1	pcs	41-169009-A	02 ECO-00036265	TOP CAP, 8M	
11	12	pcs	41-169010-A	02 ECO-00036265	UPPER PANEL, 8M	
12	12	pcs	41-169011-A	02 ECO-00036265	MIDDLE-UPPER PANEL, 8M	
13	12	pcs	41-169057-A	02 ECO-00036265	MIDDLE-LOWER PANEL, 8M	
14	11	pcs	41-169058-A	02 ECO-00036265	BOTTOM PANEL, 8M	
15	1	pcs	41-169059-A	02 ECO-00036265	BOTTOM PANEL WITH DOOR OPENING, 8M	
16	1	pcs	41-169060-A	02 ECO-00036265	DOOR, 8M	
		pcs	88-207658-SAAA	Introductory	RADOME PANEL SET, 8.0M, C-XTX, SIDE DOOR, WHITE	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT



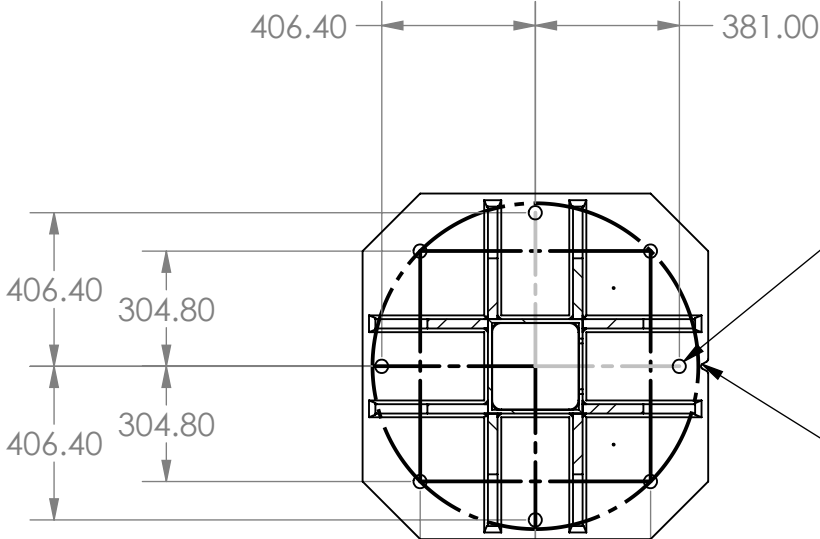
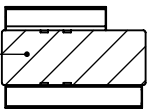
**PROPOSED GENERAL ASSEMBLY (GA)
MOUNTING HOLE PATTERN
NOMINAL SIZE: 3/4" THREADED INSERTS OR STUDS
B.C.D.: 5300 MM [208.66"]
QTY: 8, (NOTE ONE MOUNTING HOLE LOCATION,
TO CONTROL SYSTEM ORIENTATION.**

**PROPOSED RADOME MOUNTING HOLE PATTERN
NOMINAL SIZE: 3/8" THREADED INSERTS OR STUDS
B.C.D.: 5300 MM [208.66"]
QTY: 96 (CHORD LENGTH ~173.4MM [6.83"]).**



DETAIL E
SCALE 1 : 25

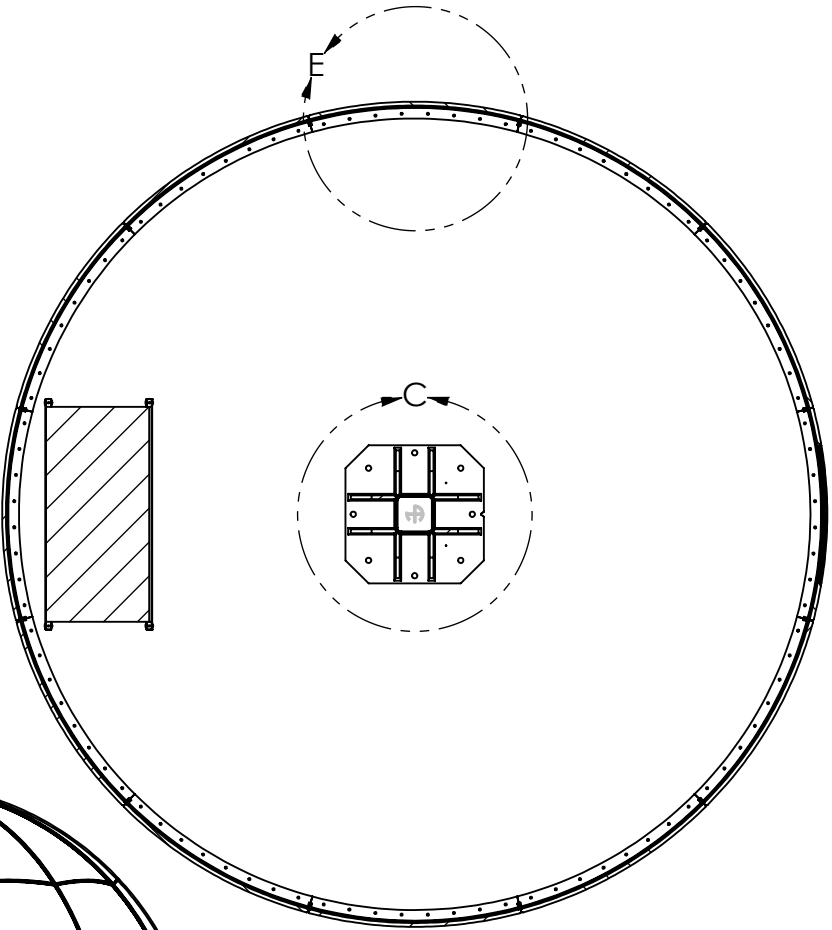
OUTSIDE
AIR CONDITIONER
LOCATION
(MAY VARY)



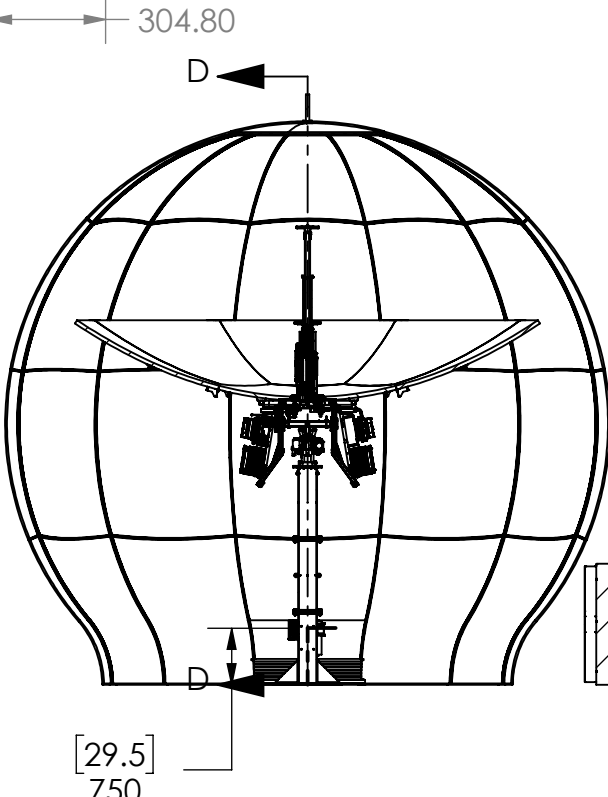
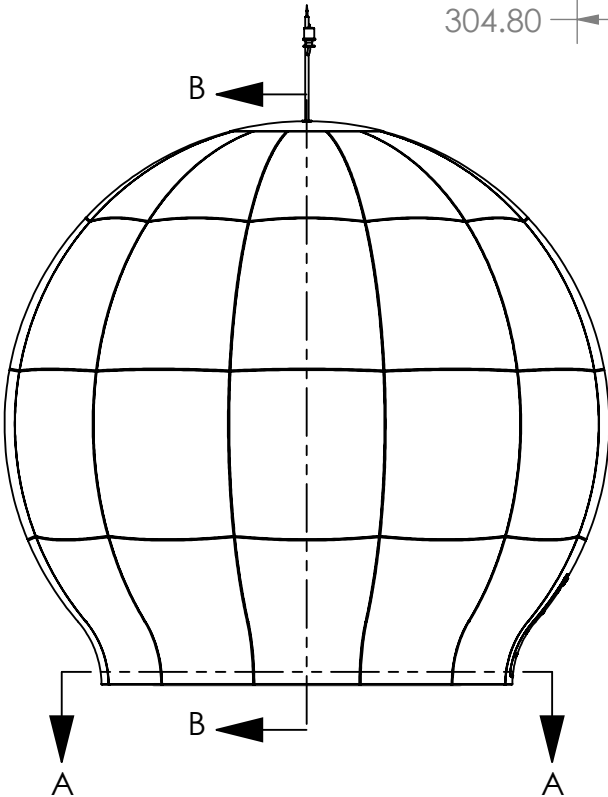
THIS HOLE OFFSET
TO CONTROL
SYSTEM ORIENTATION

NOTCH IN BASE
MUST FACE
TRUE NORTH

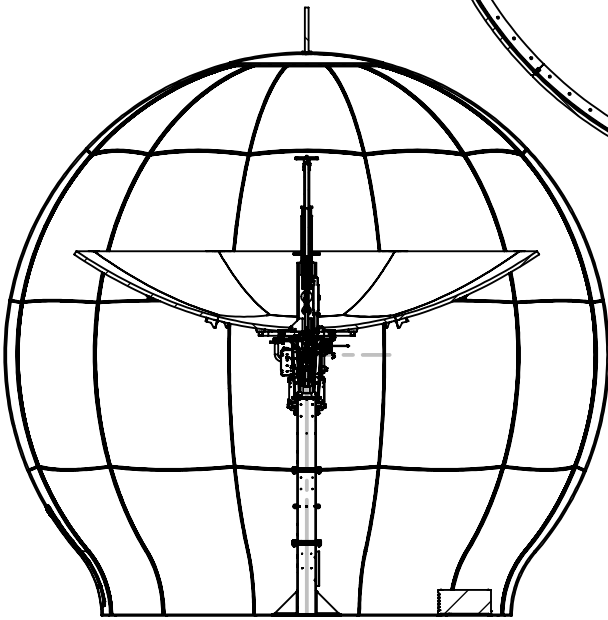
DETAIL C
SCALE 1 : 20



SECTION A-A
SCALE 1 : 50

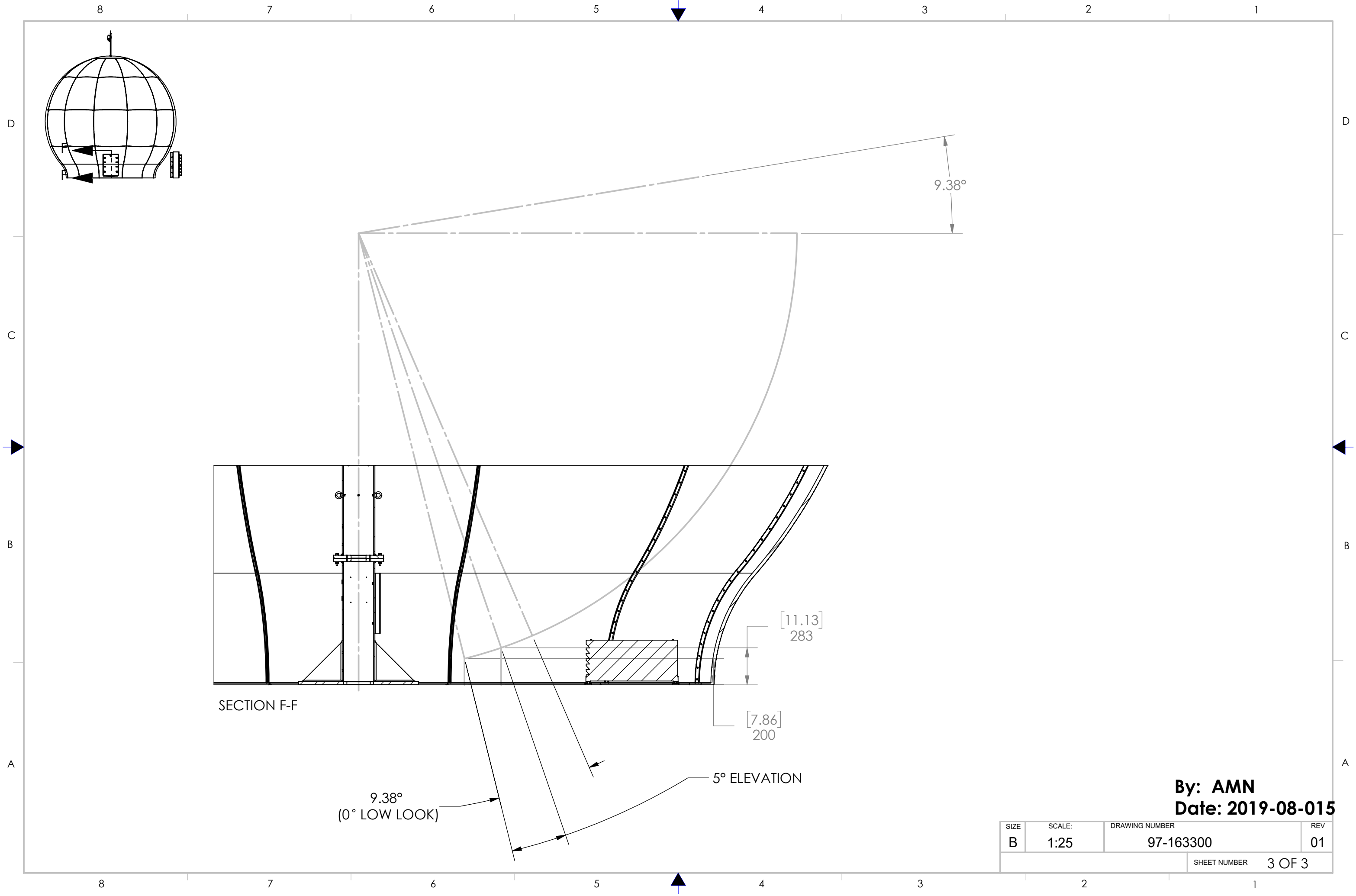


SECTION B-B



SECTION D-D

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:100	97-163300	01
SHEET NUMBER		2 OF 3	



T6000 Antenna and Radome Mounting Hole Layout Instructions

Project Name: Globalstar T6000

Project Category: Installation

Approved by:

Date:

(Reference Assigned LCM category)

Submitted By: William G. Kurth

Date: 9-18-2019

Revision history is Appendix I

Signed hardcopy maintained in engineering project binder.

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

Document maintained for 10 years after project closure date (ref procedure 124055).

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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Contents

SCOPE.....	1
1. STEP 1 – LOCATE CENTER OF INSTALLATION AND TRUE NORTH	3
1.1. MOUNTING HOLES RELATED TO CENTER	3
1.2. TRUE NORTH.....	4
2. STEP 2 – LOCATING PEDESTAL MOUNTING HOLES.....	4
2.1. METHOD 1 - CREATING TEMPLATE	4
2.2. METHOD 2 – LAY OUT BY HAND USING SITE DRAWING.....	5
3. STEP 3 – LOCATING RADOME MOUNTING HOLES.....	6
3.1. METHOD 1 – JIG WITH SIDE ATTACHMENT.....	6
3.2. METHOD 2 – JIG WITH COMPASS	10
4. APPENDIX.....	13
4.1. THREADED ANCHOR	13
4.2. MARKING COMPASS.....	13
4.3. RADOME REFERENCE DIMENSIONS	14

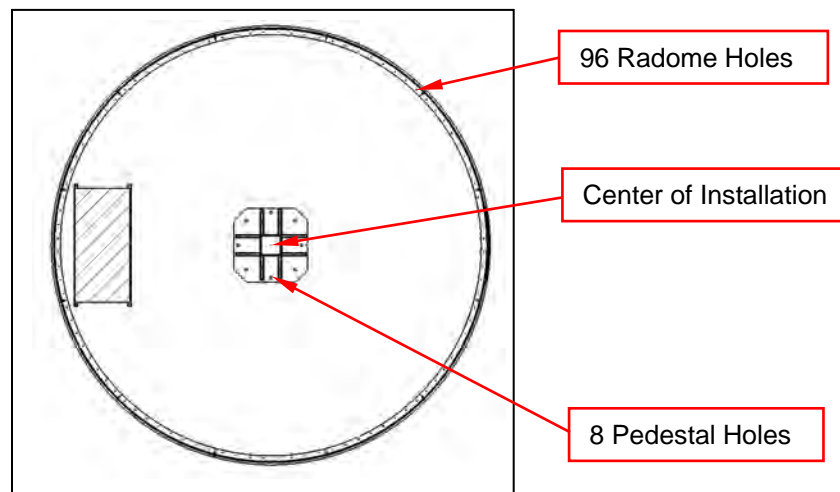
1. Step 1 – Locate Center of Installation and True North

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.



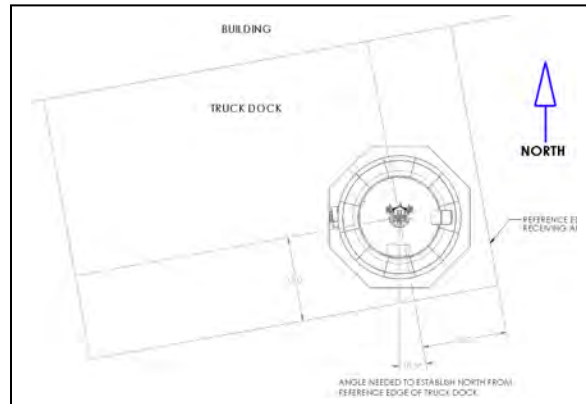
1.1. Mounting Holes Related to Center

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.

