

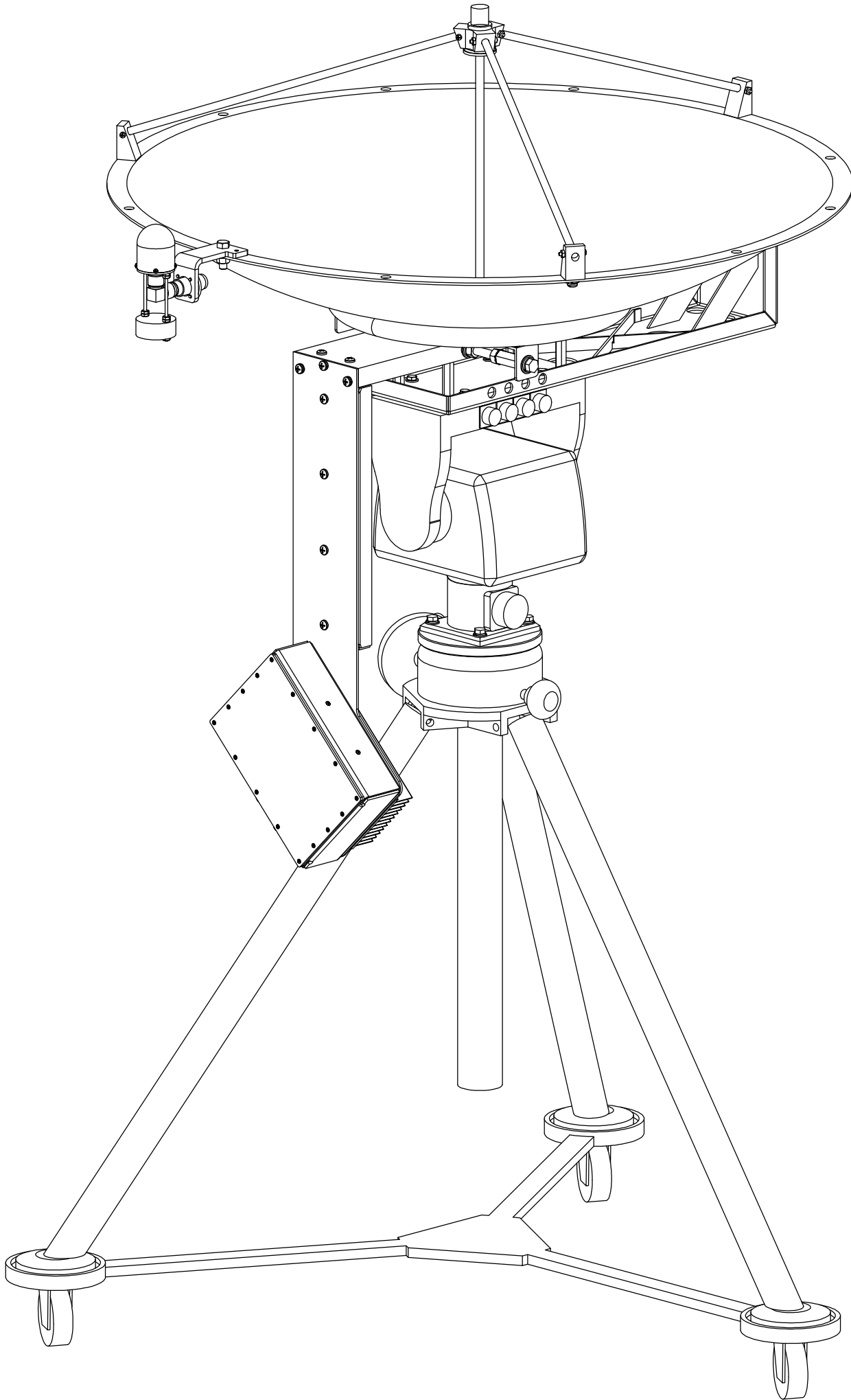
8765432

DWG. NO. 05A-0030-00REV 0

NOTES:
1- SEE SHEET 2 AND 3 .

ZONE	REV	DESCRIPTION	APPR	DATE
ALL	0	RELEASE FOR PROTOTYPE		

7N	3	91831A007	MCMaster Carr	NUT, NYLON INSERT, locking 6-32	EA
12S	3	91772A150	MCMaster Carr	SCREW, PAN HEAD 6-32 X 5 /8	EA
6N	6	94924A009	MCMaster Carr	NUT, WING NYLON 8-32	EA
11S	6	94320A203	MCMaster Carr	SCREW, NYLON KNURLED, FIL HD 8-32 X 1- 1 /4	EA
10S	4	93085A144	MCMaster Carr	SCREW, FLAT HEAD 100 DEG , 6-32 X 1 /4	EA
5N	1	91240A009	MCMaster Carr	NUT, HEX 8-32	EA
9S	1	91400A192	MCMaster Carr	SCREW, PAN HEAD 8-32 X 3 /8	EA
8S	4	91400A194	MCMaster Carr	SCREW, PAN HEAD 8-32 X 1/2	EA
8W	4	91475A025	MCMaster Carr	WASHER, SPRING LOCK #8	EA
7W	4	92141A009	MCMaster Carr	WASHER, FLAT #8	EA
4N	10	91831A029	MCMaster Carr	NUT, NYLON INSERT, LOCKING 1 /4-20	EA
6W	18	98019A355	MCMaster Carr	WASHER, FLAT 1/4"	EA
7S	2	91772A546	MCMaster Carr	SCREW, PAN HEAD 1/4-20 X 1- 1/2	EA
6S	3	91400A537	MCMaster Carr	SCREW, PAN HEAD 1/4-20 X 1/2	EA
5S	8	92245A546	MCMaster Carr	SCREW, HEX HEAD 1/4-20 X 1-1 /2	EA
4S	4	91400A539	MCMaster Carr	SCREW, PAN HEAD 1/4-20 X 5 /8	EA
3S	3	93135A540	MCMaster Carr	SCREW, NYLON SLOTTED, 1 /4-20 X 3 /4	EA
5W	10	91475A029	MCMaster Carr	WASHER, SPRING LOCK 1/4	EA
3N	1	91831A127	MCMaster Carr	NUT, NYLON INSERT LOCKING 3/ 8-16	EA
2S	1	92245A625	MCMaster Carr	CAP SCREW, STND HEX, 3 /8-16 X 1- 1 /8	EA
4W	1	90107A031	MCMaster Carr	WASHER, FLAT 3/8	EA
2N	1	93190A681	MCMaster Carr	CAP SCREW, STND HEX, 7 /16 -14 X 4	EA
1N	5	92673A131	MCMaster Carr	NUT, HEX 7/16-14	EA
3W	6	98019A502	MCMaster Carr	WASHER , FLAT 7 /16	EA
1S	2	93190A670	MCMaster Carr	SCREW, HEX HEAD 7 /16-14 X 1	EA
2W	5	92147A032	MCMaster Carr	WASHER, SPRING LOCK 7 /16	EA
1W	2	98438A032	MCMaster Carr	WASHER, EXTERNAL TOOTH 7 /16	EA
ITEM NO.	QTY	PART NO.	MFG:	DESCRIPTION	U/M
HARDWARE					



23	NA	1	RDI-103-4032	RDI	CABLE,130 FOOT ,QUICKSET	EA
22	NA	1	RDI-103-4069	RDI	CABLE,ANTENNA	EA
21	NA	1	RDI-103-4068	RDI	CABLE, VIDEO AND COMPASS	EA
20	NA	3	MS25281-R11	JACO AEROSPACE	CABLE STRAP	EA
19	NA	4	91075A199	MCMaster Carr	STANDOFF, HEX M/F, 1/4-20 X 2	EA
18	NA	2	90977A180	MCMaster Carr	COUPLING NUT, HEX 7/16-14 X 1-3 /4	EA
17	NA	1	HG5833D	L-COM	ANTENNA, PARABOLIC DIRECTIONAL	EA
16	NA	1	2118-1400	UAVS	CAMERA ASSEMBLY	EA
15	NA	1	2118-1200	UAVS	OMNI ASSEMBLY	EA
14	NA	1	05A-0030-00	UAVS	TRACKER, BOX ASSEMBLY	EA
13	NA	1	2118-1011	MACHINED	ROD, FULLY THREADED 7 /16-14	EA
12	NA	1	2118-1009	MACHINED	ANTENNA UNIT HEAT SINK	EA
11	NA	1	2118-1008	MACHINED	SIDE PLATE STIFFENER	EA
10	NA	1	2118-1007	MACHINED	SIDE MOUNT PLATE	EA
9	NA	3	2118-1006	MACHINED	DISH ANTENNA SPACER	EA
8	NA	3	2118-1005	MACHINED	DISH STRUT MOUNT	EA
7	NA	1	2118-1004	MACHINED	HUB, DISH STRUT	EA
6	NA	3	2118-1003	MACHINED	STRUT, DISH ANTENNA	EA
5	NA	1	2118-1002	MACHINED	PLATE, DISH INTERFACE	EA
4	NA	1	2118-1001	MACHINED	PLATE, INTERFACE QUICKSET	EA
3	NA	1	7-62130-MWS	MOOG QUICKSET	QUICKSET PAN/TILT POSITIONER, SENTRY 50	EA
2	NA	1	4-55730-2	MOOG QUICKSET	PLATE, ADAPTOR, QUICKSET	EA
1	NA	1	4-53021-8	MOOG QUICKSET	TRIPOD, QUICKSET	EA
ITEM NO.	WIRE DIAGRAM REF.	QTY	PART NO.	MFG:	DESCRIPTION	U/M
BILL OF MATERIALS						

26	NA	1	2118-1370	MACHINED	CAMERA ARM	EA
25	NA	1	RDI-103-4073	RDI	CABLE,OMNI ANTENNA	EA
24	NA	1	RDI-103-4074	RDI	CABLE, DIRECTIONAL ANTENNA	EA
ITEM NO.	WIRE DIAGRAM REF.	QTY	PART NO.	MFG:	DESCRIPTION	U/M
BILL OF MATERIALS						

THIRD ANDLE PROJECTION IN ACCORDANCE WITH ASME Y14.5

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR +/- 5 BEND +/- .3 TWO PLACE DECIMAL +/- .05 THREE PLACE DECIMAL +/- .001

ORIG. ENG. SKTCH NO.:

INITIALS

DATE

DRAFTER: RGB

06/27/11

CHECKER:

ENG. APPR:

WORKMANSHIP PER QOP ISO STD 001-XXX

8280 PATUXENT RANGE RD. SUITE E JESSUP, MD 20794
PHONE: 240-456-0195 EMAIL: INFO@UAV-SOLUTIONS.COM

TITLE: GCSBLKII ROTARY ANT ASSEMBLY

SIZE B

DWG. NO. 05A-0030-00

REV 0

CAGE CODE: 61F14

SCALE: NTS

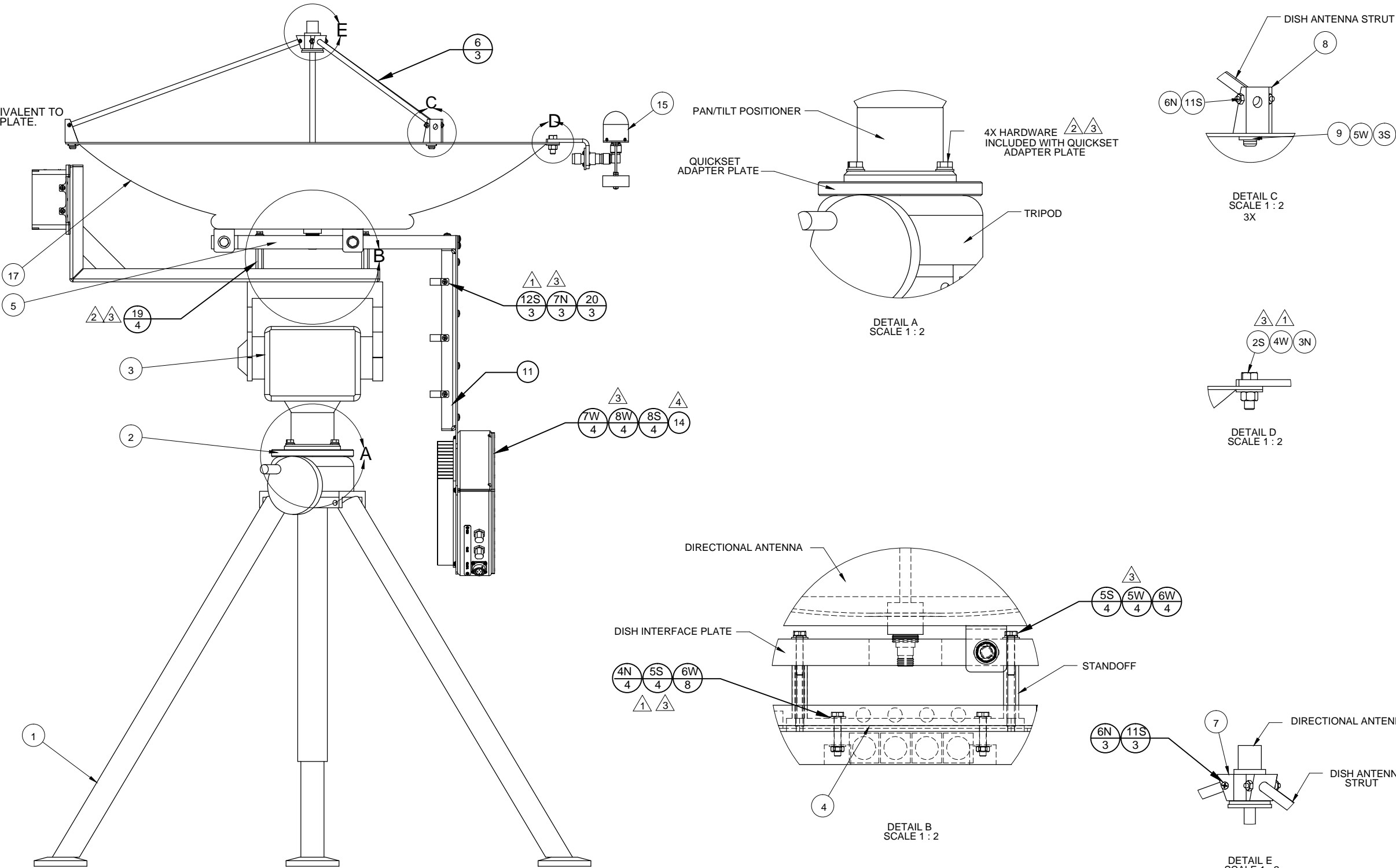
SHEET 1 OF 3

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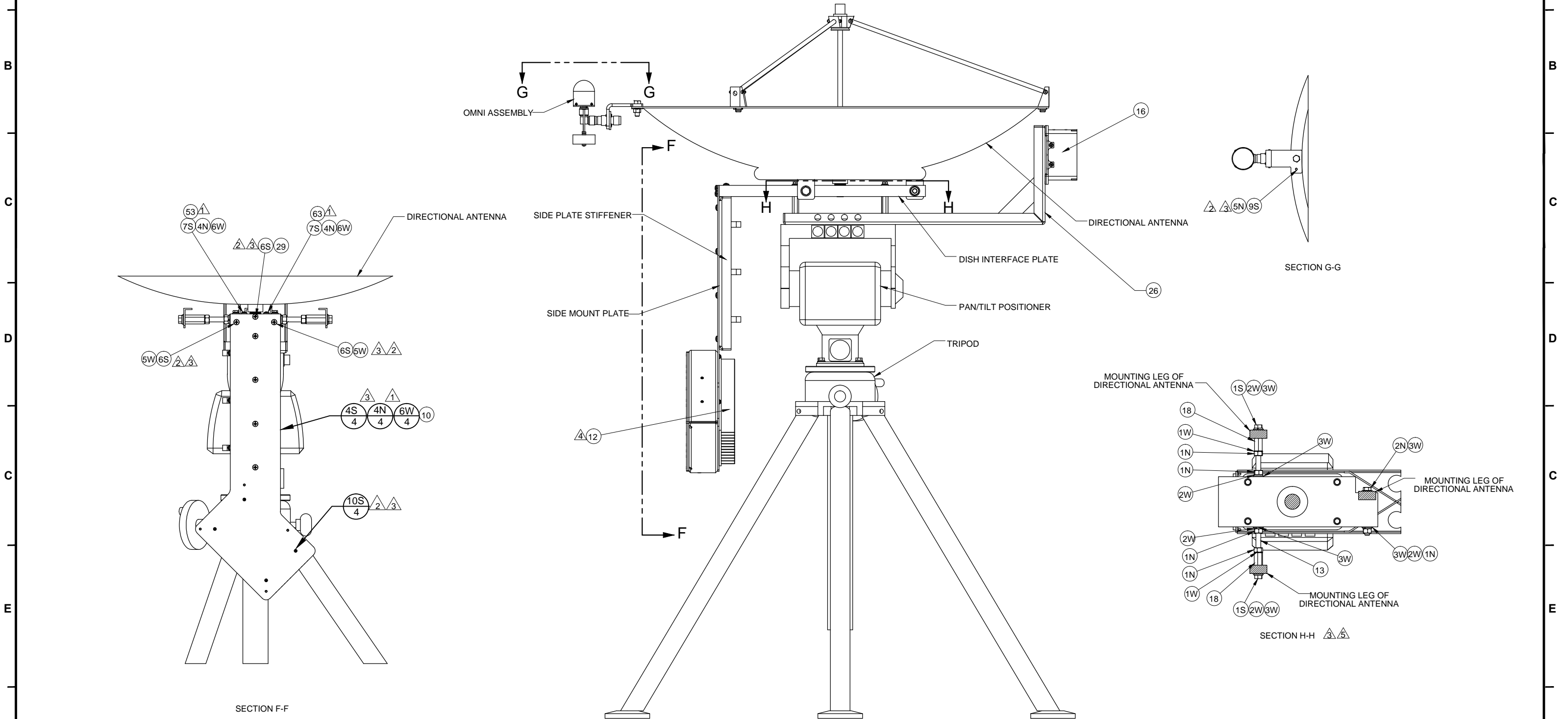
NOTES:

- 1 AFTER EACH REMOVAL, DISCARD AND REPLACE NYLON INSERT LOCKNUT.
- 2 APPLY LOCTITE 248 OR EQUAL TO HARDWARE THREADS.
- 3 TORQUE SPECS SHOWN IN CHART BELOW ARE ABOVE RUNNING TORQUE ON UNLUBRICATED HARDWARE UNLESS OTHERWISE NOTED (SSTL FASTENERS):
- | HARDWARE | TORQUE (IN-LBS) | TORQUE (FT-LBS) |
|----------|-----------------|-----------------|
| 6-32 | 9 | - |
| 8-32 | 16 | - |
| 10-32 | 22 | - |
| 1/4-20 | 45 | - |
| 3/8-16 | 133 | 11 |
| 7/16-14 | 240 | 20 |
| | (LUBRICATED) | (LUBRICATED) |
- 4 APPLY HEAT SINK COMPOUND DOW CORNING 340 OR EQUIVALENT TO HEAT SINK SURFACE BEFORE MOUNTING TO SIDE MOUNT PLATE.
- 5 APPLY ANTISEIZE LUBRICANT, MCMASTER-CARR P/N 1820K1 OR EQUIVALENT, TO HARDWARE THREADS.



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