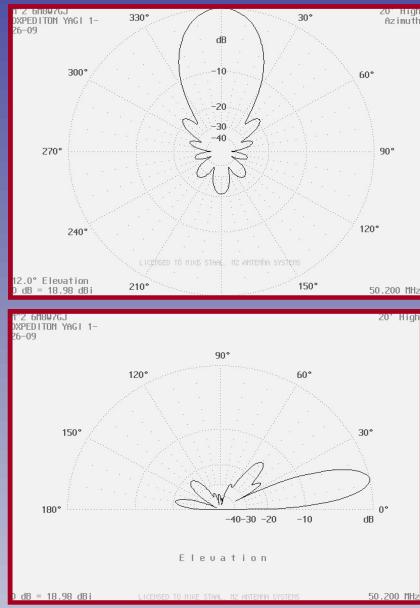
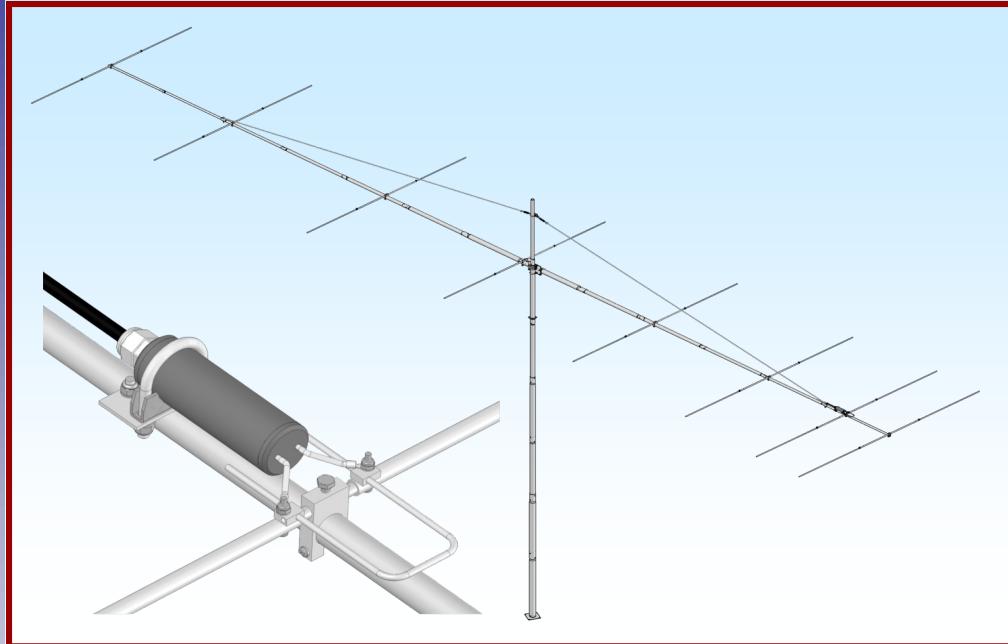




M2 Antenna Systems, Inc.

Model No: 6M8GJ



SPECIFICATIONS:

Model	6M8GJ
Frequency Range.....	50.0 To 50.4 MHz
*Gain, (FS) / Over gnd	14.2 dBi / 19 dBi @ 20'
Front to back	20 dB Typical
Beamwidth	E=33° H=38°
Feed type	Direct feed
Feed Impedance	50 Ohms Unbalanced
Maximum VSWR.....	1.2 Typical
Input Connector.....	"N" Female

Power Handling	3 kW, Higher avl.
Boom Length / Dia.....	42' 8" / 2-1/2" To 1"
Maximum Element Length.....	9' 9"
Turning Radius:	23' 6"
Stacking Distance.....	30' High & 30' Wide
Mast Size.....	2" Nom.
Wind area / Survival	4.3 Sq. Ft. / 100 MPH
Weight / Ship Wt.....	23 Lbs. / 28 Lbs.

*Subtract 2.14 from dBi for dBd / FS = Free Space

FEATURES:

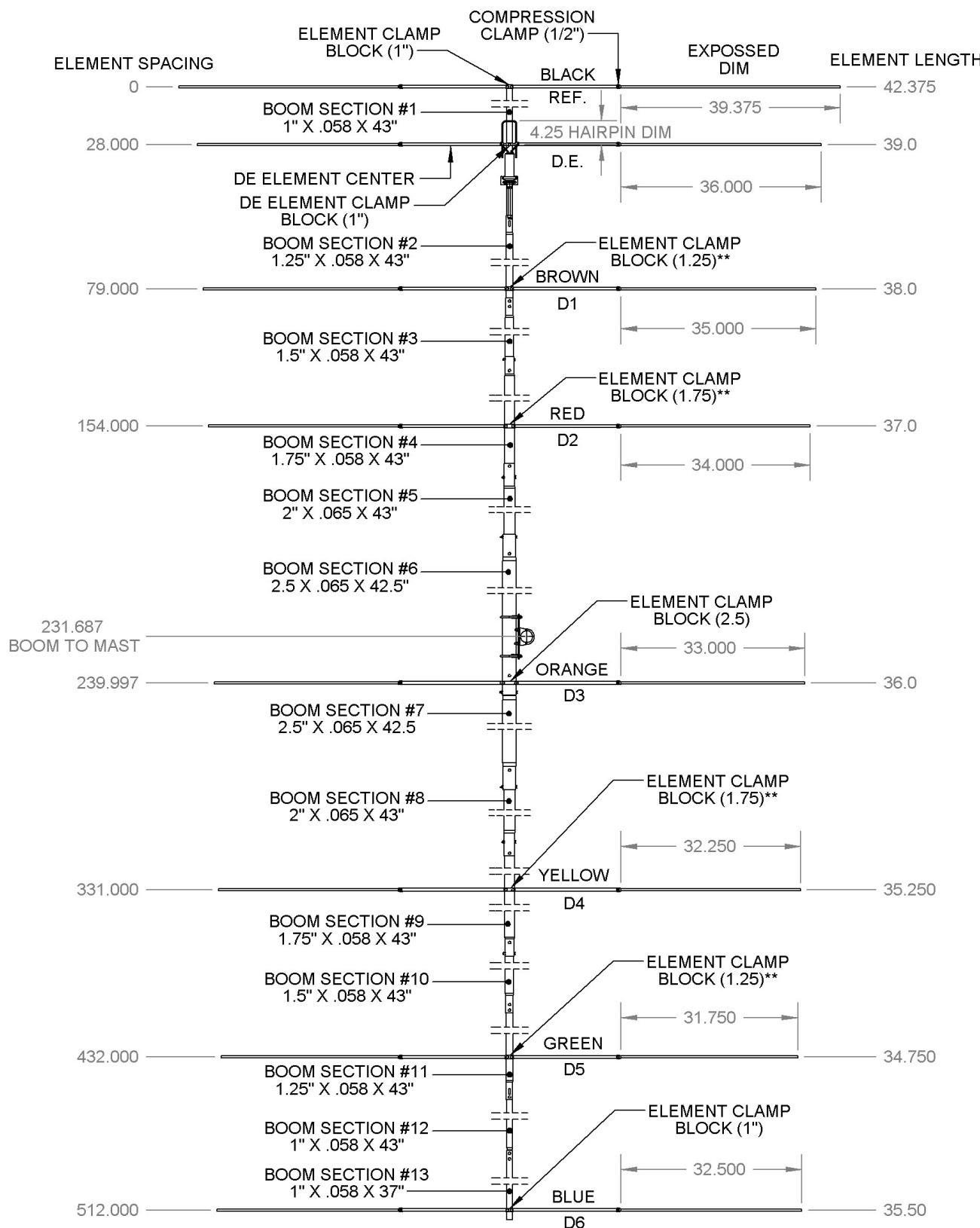
The 6M8GJ Yagi is the culmination of many years & countless versions of the "40' Trip Yagi". Inspired by W7GJ who, for years has tirelessly promoted 6M EME & DXpedition activity, the product bears his amateur call suffix "GJ". Computer optimized for the exact conditions we find in most DXpedition locations, a height of 20' to 30', it turns out to be perfect for use at any height and in 2X or 4X array stacks.

Is it built strong enough for home use? Yes in spades! Boom center sections are 2-1/2" dia. & the rest of the sections all telescope in 1/2" or 1/4" increments. The entire boom breaks down to a 2-1/2" X 5" X 43" bundle (just 1.09M long). It will survive horrible DXpedition conditions (100 MPH). Rugged 1/2" X 40" element center sections and 3/8" dia. tips mounted on machined, "slip on" element to boom clamps guarantees this antenna will stay up for years to come. It is easy to assemble & breakdown and we will give you tips how to eliminate any field measurements on DXpeditions. Lastly, in the worst case scenario if you get to a location where it is impossible to put up the full 6M8GJ, we will give you a second set of dimensions allowing you to still get on the air with a hi performance short yagi still capable of EME and top terrestrial performance!

Optional items include: Nylon carry bag & portable 20+foot mast that telescopes as well and fits in the same carry bag with the antenna! The mast comes with Dacron guys, slip ring & guy anchors. Everything fits into the nylon carry bag and this package can be mailed or UPS'd almost anywhere in the world.

6M8GJ DIMENSION SHEET

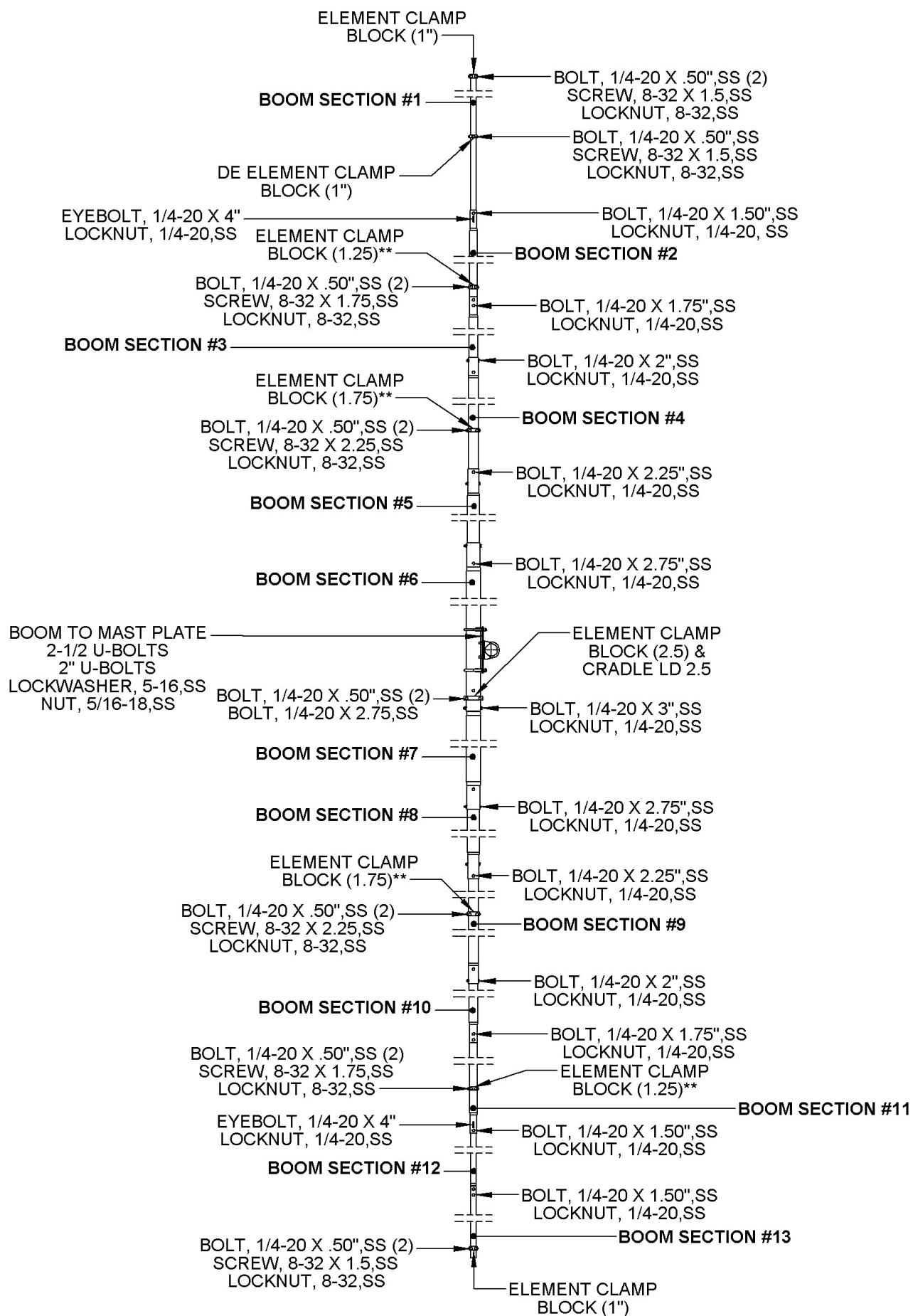
TOOLS REQUIRED: Screwdriver, 11/32 wrench, socket or spintite, a 7/16" and 1/2" wrench or socket, tape measure.



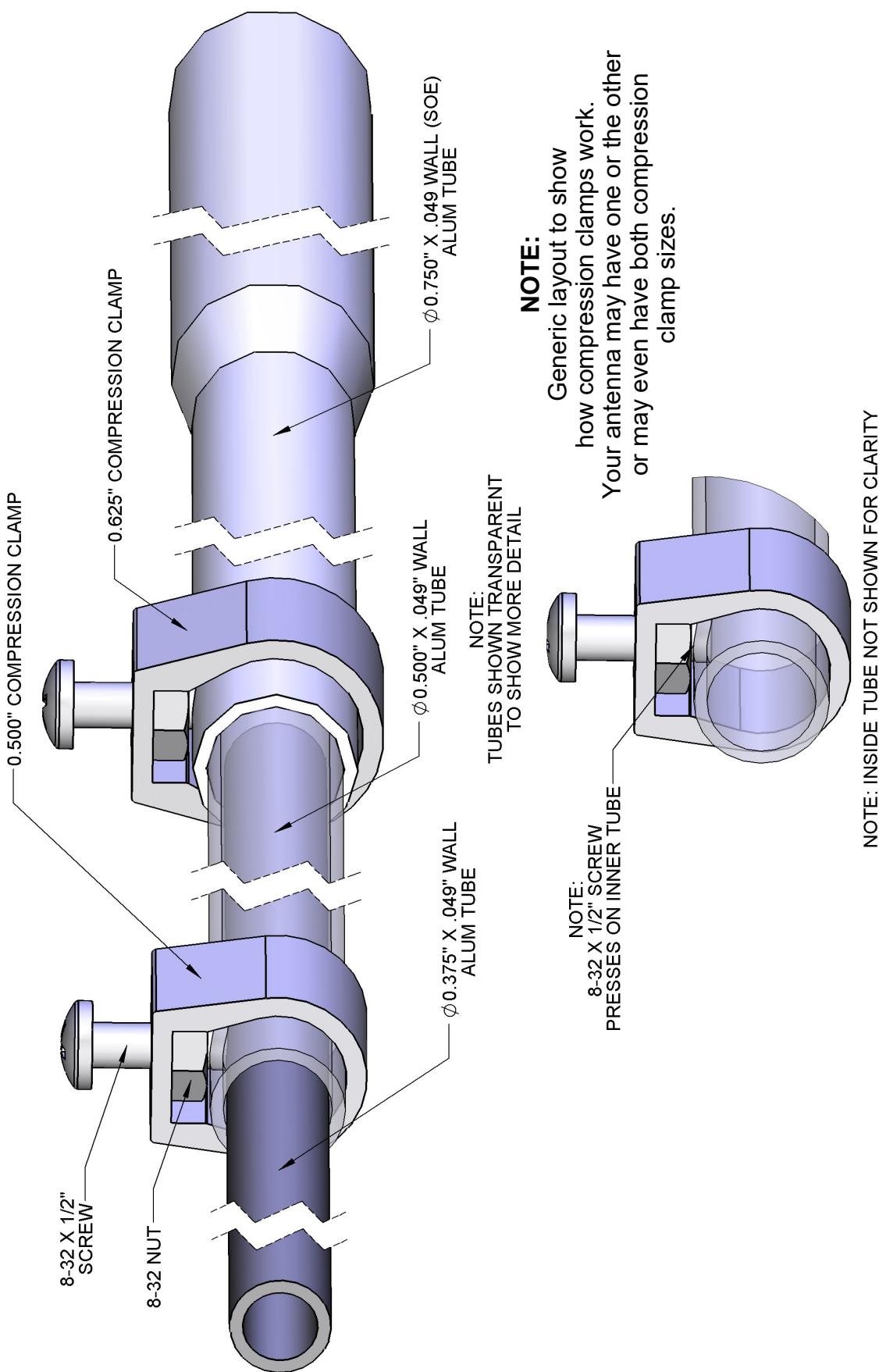
**Please be sure to slip element clamp block before adding the next boom section.

Note: You may choose to color code your element clamps, center sections, tips & compression clamps for installation ease in the future. If you chose to color code your antenna, we recommend you follow the color scheme above. These colors are recommended because they are identifiable in the antenna industry.

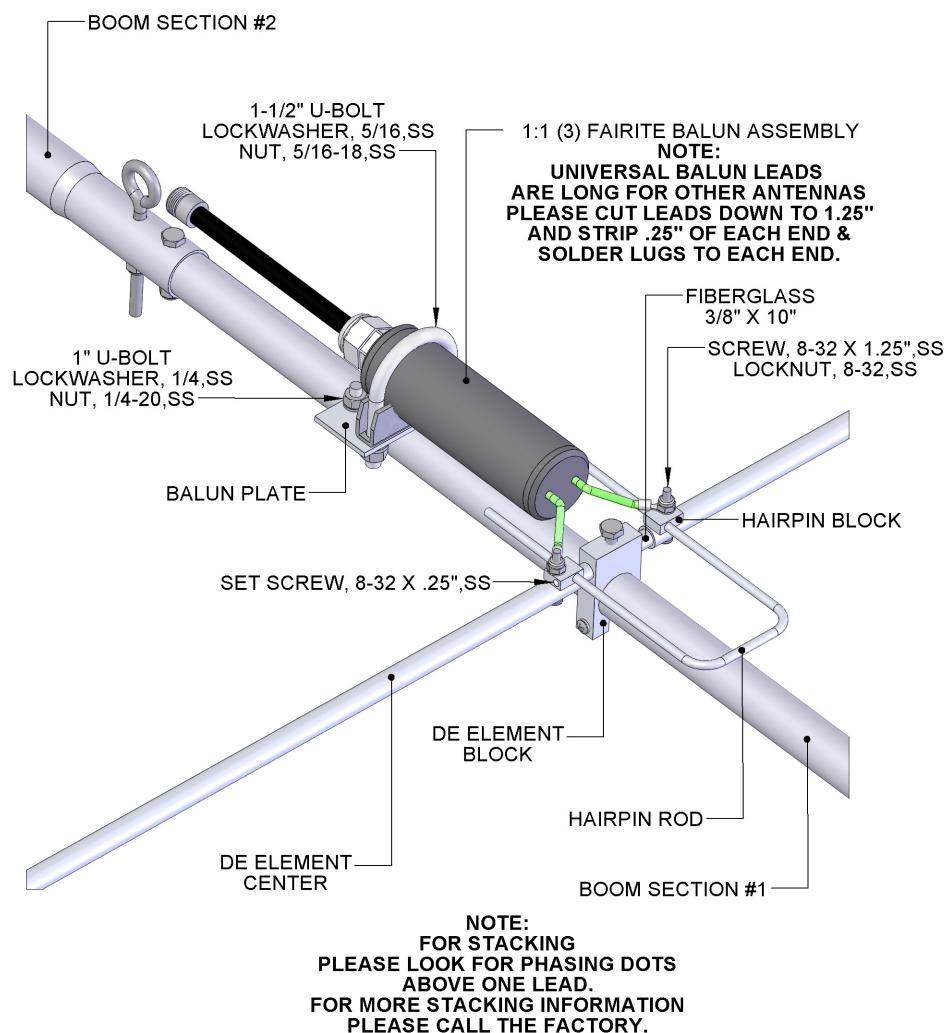
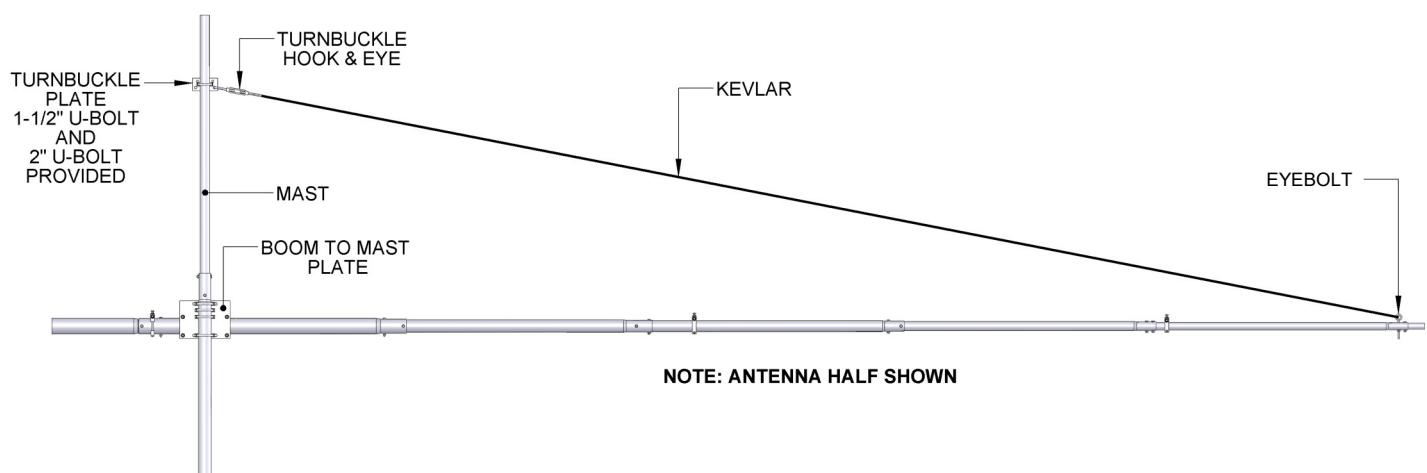
6M8GJ BOOM LAYOUT



GENERIC COMPRESSION CLAMP DETAIL



OVERHEAD SUPPORT & BALUN DETAIL



M² ANTENNA SYSTEMS, INC.
 4402 N. SELLAND AVE.
 FRESNO, CA 93722
 (559) 432-8873 FAX: 432-3059
www.m2inc.com Email: sales@m2inc.com

6M8GJ PARTS & HARDWARE

DESCRIPTION.....	QTY
BOOM SECTION #1: 1" X .058 X 43"	1
BOOM SECTION #2 & #11: 1.25" X .058 X 43" SOE	2
BOOM SECTION #3 & #10: 1.5" X .058 X 43" SOE	2
BOOM SECTION #4 & #9: 1.75" X .058 X 43" SOE	2
BOOM SECTION #5 & #8: 2" X .065 X 43" SOE	2
BOOM SECTION #6: 2.5" X .065 X 42.5" SOE	1
BOOM SECTION #7: 2.5" X .065 X 42.5" SBE	1
BOOM SECTION #12: 1" X .058 X 43" SOE	1
BOOM SECTION #13: 1" X .058 X 37"	1
ELEMENT CENTER, .50" X .049 X 40"	7
DE ELEMENT CENTER, .50" X .049 X 19"	2
ELEMENT TIPS 3/8", .375" X .049 X SEE CHART	16
FIBERGLASS DE CENTER, .375" X 10"	1
DE CLAMP BLOCK 1", 1.25" X .500 X 2.126"	1
ELEMENT CLAMP BLOCK 1, 1.25" X .625 X 2.126"	2
ELEMENT CLAMP BLOCK 1-1/4, 1.5" X .625 X 2.375"	2
ELEMENT CLAMP BLOCK 1-3/4" X .625 X 2.860"	2
ELEMENT CLAMP BLOCK 2-1/2, 3.25" X .625 X 1.25"	1
CRADLE LD 2-1/2, 3.25" X .500 X .75"	1
DE HAIRPIN BTLOCK, .50" X .250 X .625"	2
HAIRPIN ROD 3/16"	1
BALUN PLATE, .125" X 1.5" X 3"	1
TURNBUCKLE PLATE, 2" X .125 X 4"	1
BOOM TO MAST PLATE, 6" X .125 X 8"	1
(3) FAIRITE 1:1 VHF BALUN ASSEMBLY	1
CABLE TIE, 8"	3
CABLE TIE, 14"	2
PENETROX / ZINC PASTE CUP	1
ASSEMBLY MANUAL	1
HARDWARE:	
TURNBUCKLE, 1/4" X 5-1/4, HOOK & EYE	2
KEVLAR 5/32 X 17'	2
COMPRESSION CLAMP, 1/2"	16
U-BOLT AND CRADLE, 2-1/2"	2
U-BOLT AND CRADLE, 2"	5
U-BOLT AND CRADLE, 1-1/2"	2
U-BOLT, 1"	1
LOCKWASHER, 5/16, SS	18
NUT, 5/16-18, SS	18
EYEBOLT, 1/4-20 X 4", ZINC	2
BOLT, 1/4-20 X 3", SS	2
BOLT, 1/4-20 X 2-3/4", SS	6
BOLT, 1/4-20 X 2-1/4", SS	4
BOLT, 1/4-20 X 2", SS	4
BOLT, 1/4-20 X 1-3/4", SS	4
BOLT, 1/4-20 X 1-1/2", SS	4
BOLT, 1/4-20 X 1/2", SS	15
LOCKWASHERS, 1/4, SS	2
NUT, 1/4-20, SS	2
LOCKNUT, 1/4-20, SS	24
SCREW, 8-32 X 2-1/4", SS	2
SCREW, 8-32 X 1-3/4", SS	2
SCREW, 8-32 X 1-1/2", SS	3
SCREW, 8-32 X 1-1/4", SS	2
SCREW, 8-32 X 1/2", SS	16
SET SCREW, 8-32 X 1/4", SS	2
NUT, 8-32, SS	16
LOCKNUT, 8-32, SS	9
ALLEN HEAD WRENCH, 5/64"	1

M² ANTENNA SYSTEMS, INC.

4402 N. SELLAND AVE.

FRESNO, CA 93722

(559) 432-8873 FAX: 432-3059

www.m2inc.com Email: sales@m2inc.com