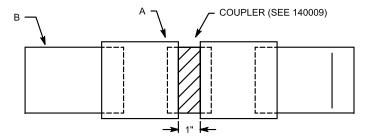


T-20 (SEE NOTE 4) COMPONENTS, DIMENSIONS: TRAPPED ELEMENTS



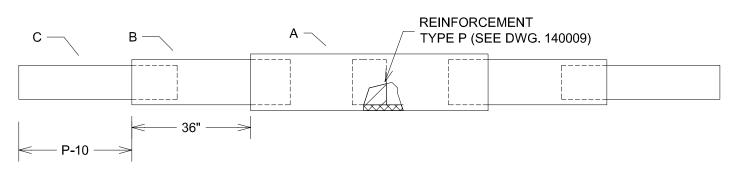
CENTER SECTION DETAIL, TRAP DRIVEN ELEMENT ONLY

TRAPPED ELE	MENT DIM	ENSIONS
ELEMENT	T -15	T -2 0
Reflector	3 9	24.5
Driven	28.5	24.5
Director	1 5	22.5

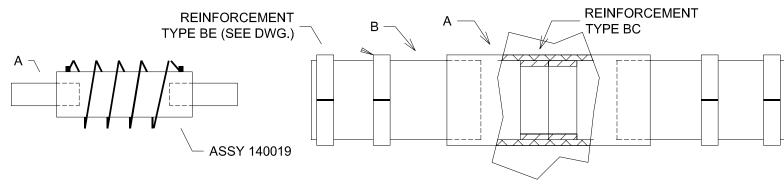
NOTES:

- 1. Unless otherwise noted; X.XXX = +/-0.005, X.XX = +/-0.020, X.X = +/-0.032
- 2. Drawing not to scale
- 3. Tubes "D" and "E" butt up against the trap body. T-15 is adjusted by sliding "D" in or out of "C".
- 4. T-20 is adjusted by sliding "F" in or out of "E".
- 5. Edge of capacitive hat angle bracket mount is alligned with end of tubing slot

TITLE	EL	EMENT ASSEMBLY	
SIZE A	DATE 04-10-0	DWG NO 140002	REV H
SCALE	NONE	SHEET 1 OF 3	

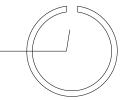


COMPONENTS, DIMENSIONS: PARASITIC ELEMENTS



COMPONENTS, TRAP ASSEMBLY

SLOT WITH SINGLE HACK SAW BLADE



COMPONENTS, BOOM (SEE DETAIL DWG.)

REINFORCEMENT TYPE "BE"

NON-TRAP PARASITIC ELEMENTS

ELEMENT	P-10
10M Reflector	39
10m Rear Driver	28
10M Front Driver	28
10M Director	24

2. Drawing not to scale
1. Unless otherwise noted; XXXX = +/-0.005, XXX = +/-0.020, XX = +/-0.032
NOTES:

TITLE

ELEMENT ASSEMBLY

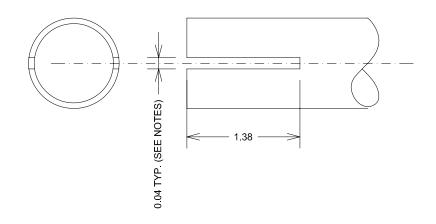
SIZE	DATE 04-10-0	DWG NO	140	0002		REV H
SCALE	NONE			SHEET	2 OF 3	

Revision C, 2-11-01																						
ITEM	P	ART A		PA	RT B	3	P/	ART C	;	PART D)	PART E			PART F			REINFORCEMENT			
	MTL	QTY	LEN	MTL	QTY	LEN	MTL	QTY	LEN	MTL	QTY	LEN	MTL	QTY	LEN	MTL	QTY	LEN	TYPE	MTL	QTY	LEN
TRAP DRIVEN ELEMENT	1	2	36	2	2	44	3	2	44	4	2	35	4	2	20.5	5	2	28				
TRAP REFLECTOR	1	1	72	2	2	44	3	2	44	4	2	45	4	2	20.5	5	2	28				
TRAP DIRECTOR	1	1	72	2	2	44	3	2	44	4	2	21	4	2	20.5	5	2	26				
PARASITIC DRIVEN ELEMENT	2	2	72	3	4	44	4	4	45													
PARASITIC REFLECTOR	2	1	72	3	2	44	4	2	55													
PARASITIC DIRECTOR	2	1	72	3	2	44	4	2	40													
TRAP	5	12	4																	8	12	1
воом	7	1	72	6	2	62													ВС	6	2	10
воом																			BE	7	4	2

	MATERIALS TABLE	
MTL#	DESCRIPTION	
1	1.125 OD X 0.058 WALL, 6063-T8 OR EQUIV	
2	1.00 OD X 0.058 WALL, 6063-T8 OR EQUIV	
3	0.875 OD X 0.058 WALL, 6063-T8 OR EQUIV	-
4	0.75 OD X 0.058 WALL, 6063-T8 OR EQUIV	
5	0.625 OD X 0.058 WALL, 6063-T8 OR EQUIV	
6	1.875 OD X 0.058 WALL, 6063-T8 OR EQUIV	
7	2.00 OD X 0.058 WALL, 6063-T8 OR EQUIV	
8	0.50 OD X 0.058 WALL, 6063-T8 OR EQUIV	

TITLE										
	ELEMENT ASSEMBLY									
SIZE	DATE	DWG NO	⊤REV							
A	04-10-0		H							
SCALE	NONE	SHEET 3 OF 3								

Drawing not to scale
 Unless otherwise noted; XXXX = +/-0.005, XXX = +/-0.020, XX = +/-0.032
NOTES:



ITEM	PART	PART B	PART C	PART D	PART E	PART F
	SLOT:	SLOT:	SLOT:	SLOT:	SLOT:	SLOT:
TRAP DRIVEN ELEMENT	ONE END	ONE END	ONE END	ONE END	ONE END	DO NOT SLOT
TRAP REFLECTOR	BOTH ENDS	ONE END	ONE END	ONE END	ONE END	DO NOT SLOT
TRAP DIRECTOR	BOTH ENDS	ONE END	ONE END	ONE END	ONE END	DO NOT SLOT
PARASITIC DRIVEN ELEMENT	BOTH ENDS	ONE END	DO NOT SLOT			
PARASITIC REFLECTOR	BOTH ENDS	ONE END	DO NOT SLOT			
PARASITIC DIRECTOR	BOTH ENDS	ONE END	DO NOT SLOT			
TRAP	SEE DWG.					
BOOM	SEE DWG.	SEE DWG.				

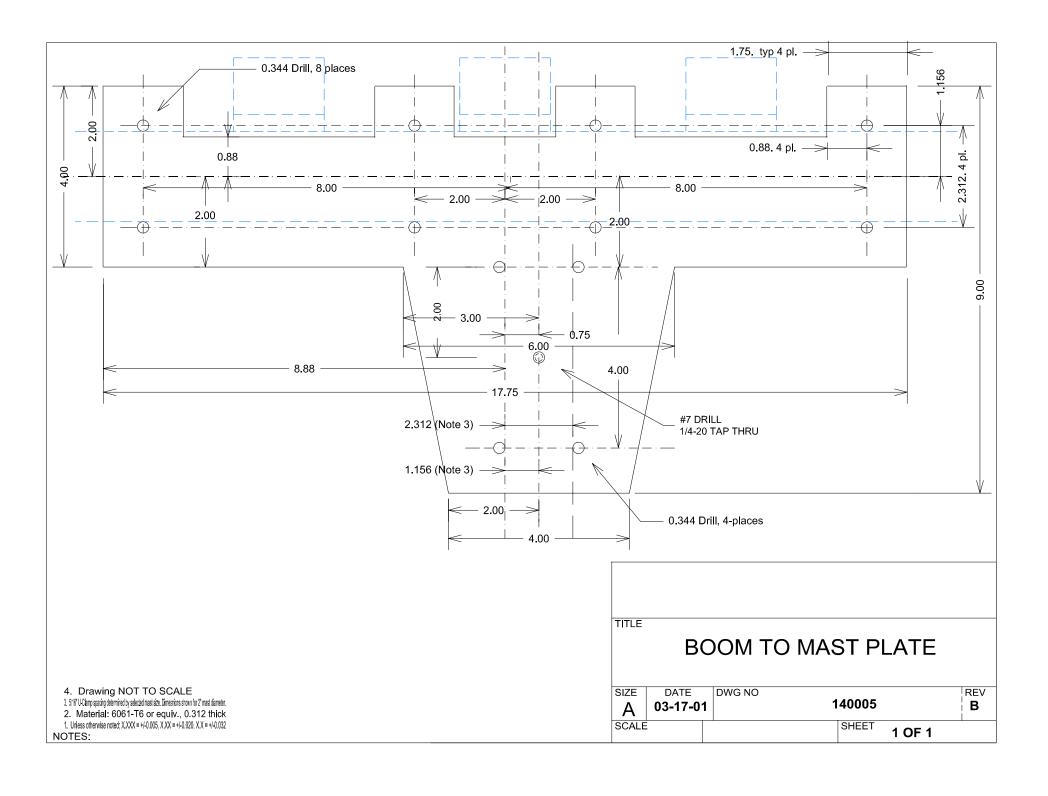
TUBE SLOTTING CHART

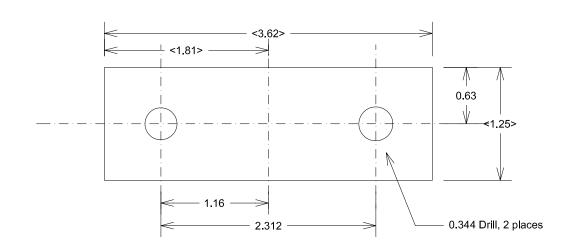
SIZE DATE DWG NO 140004 C C

SCALE SHEET 1 OF1

NOTES:

Slot tubing as shown, using a single 18 tooth/in. hacksaw blade.
 Unless otherwise noted; X,XXX = +/-0.005, X,XX = +/-0.020, X,X = +/-0.032





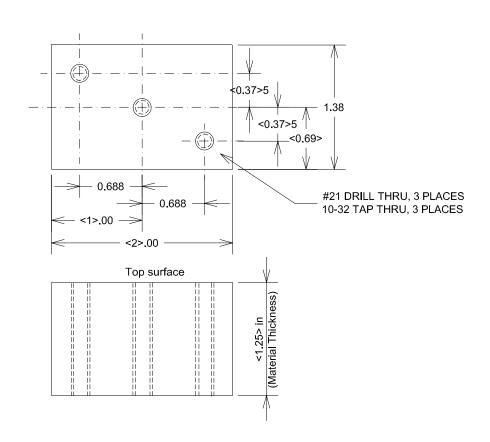
TITLE

BOOM / MAST PLATE SPACER

SIZE DATE DWG NO REV 140006 В 03-16-01 SCALE SHEET 1 OF 1

3. (8) pieces required per assembly
2. Material: 6061-T6 or equivalent, 0.250 thick
1. Unless otherwise noted; XXXX = +(-0.005, XXX = +(-0.020, XX = +(-0.032), XX = +(-0.032

NOTES:

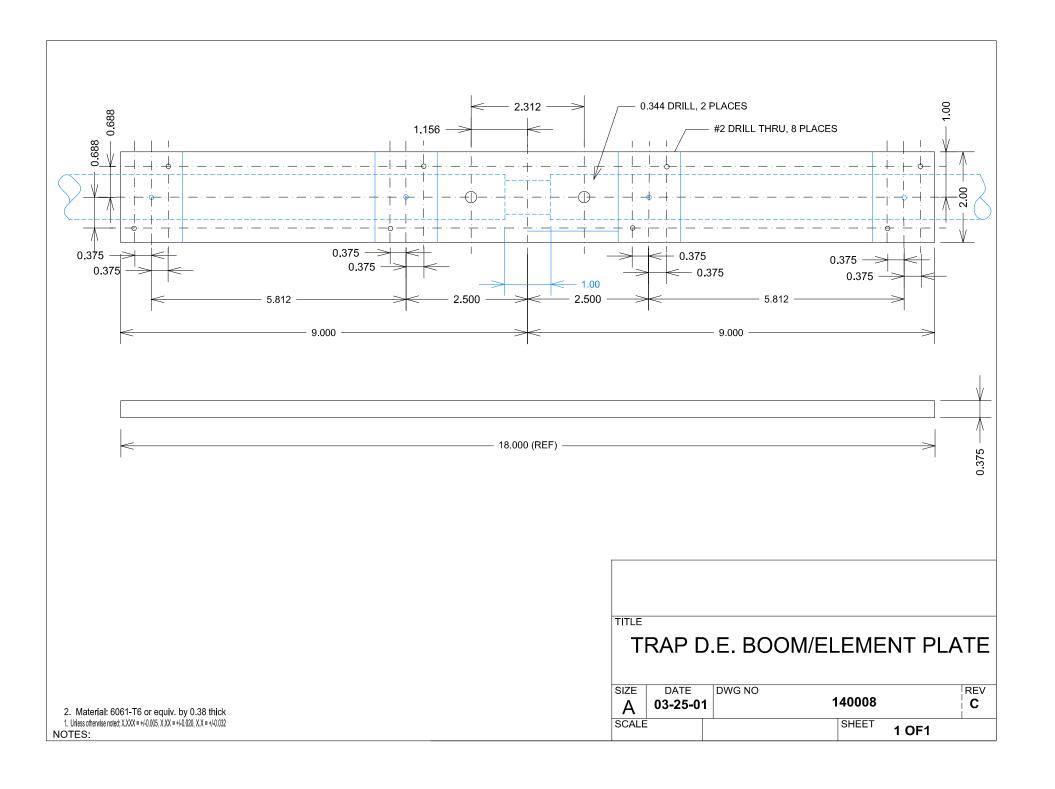


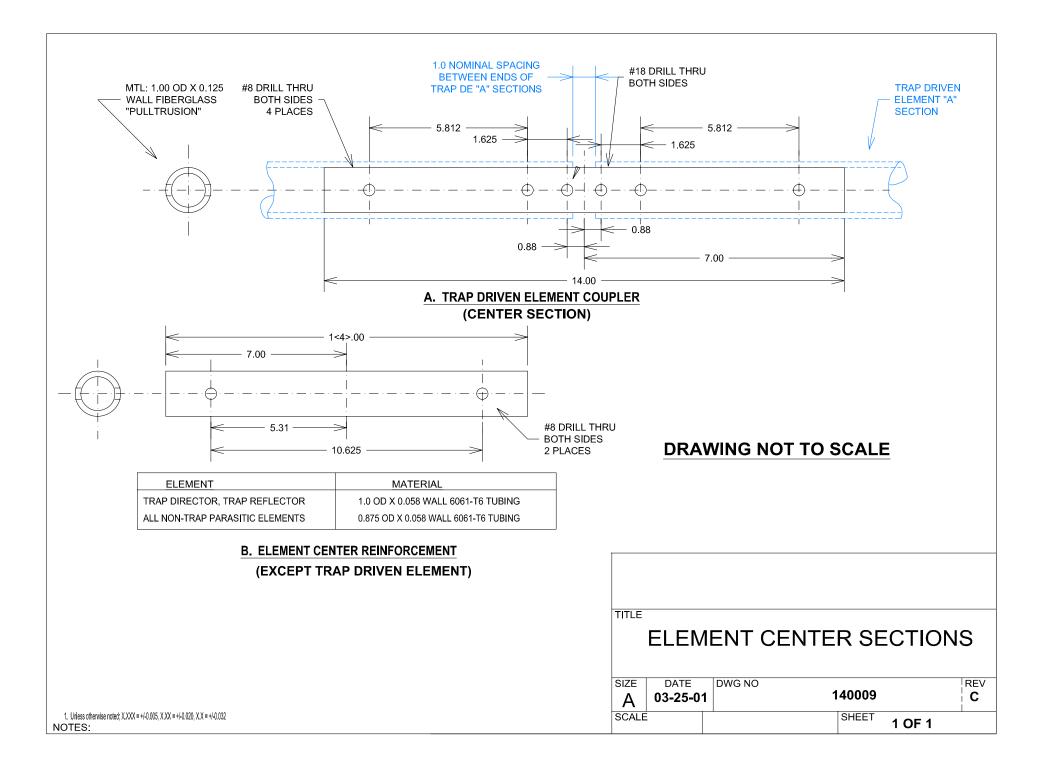
INSULATOR, ELEMENT

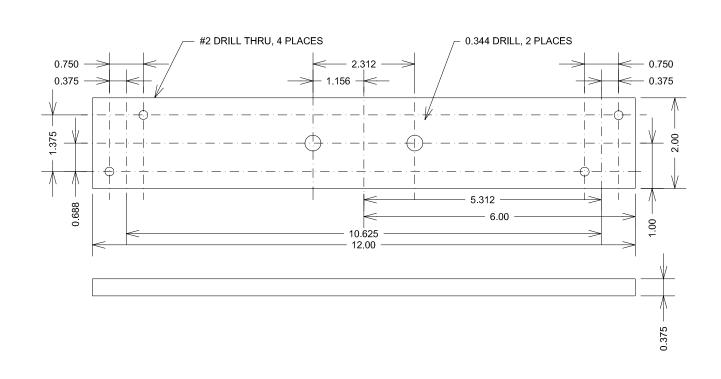
SIZE DATE DWG NO 140007 A

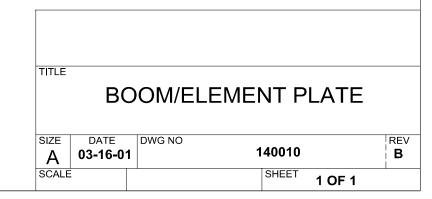
SCALE SHEET 1 OF 1

2. Material: Cast Acrylic, 16 pieces required
1. Unless otherwise noted; XXXX=+/-0.005, XXX=+/-0.020, XX=+/-0.032
NOTES:

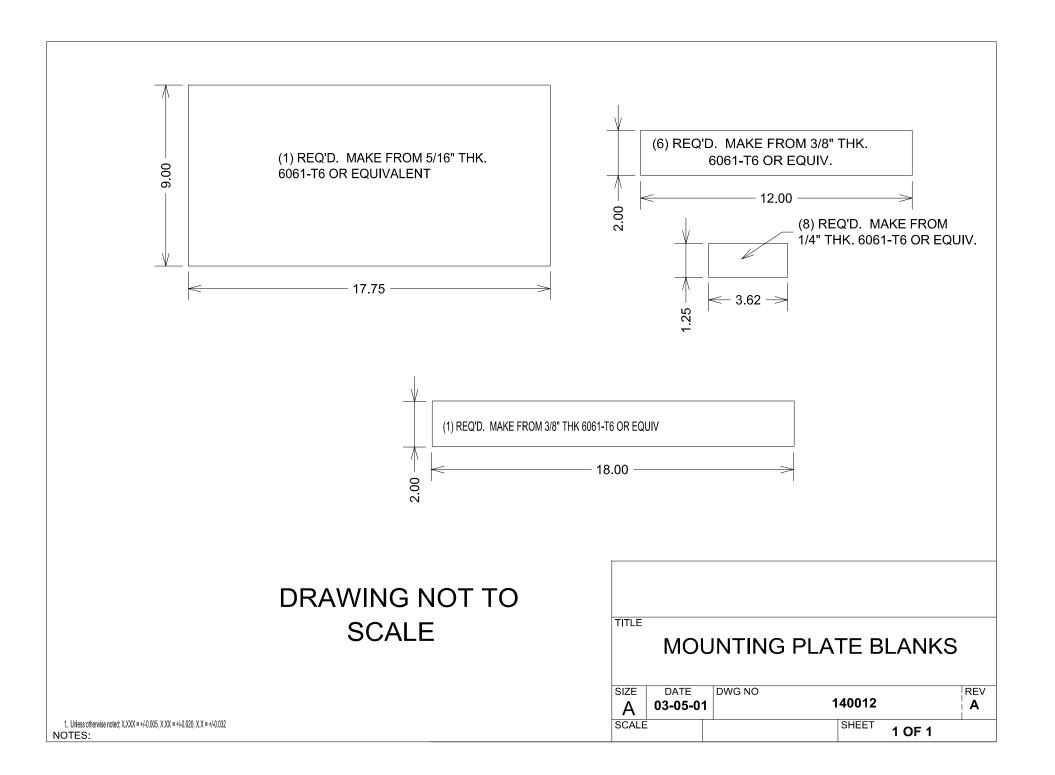


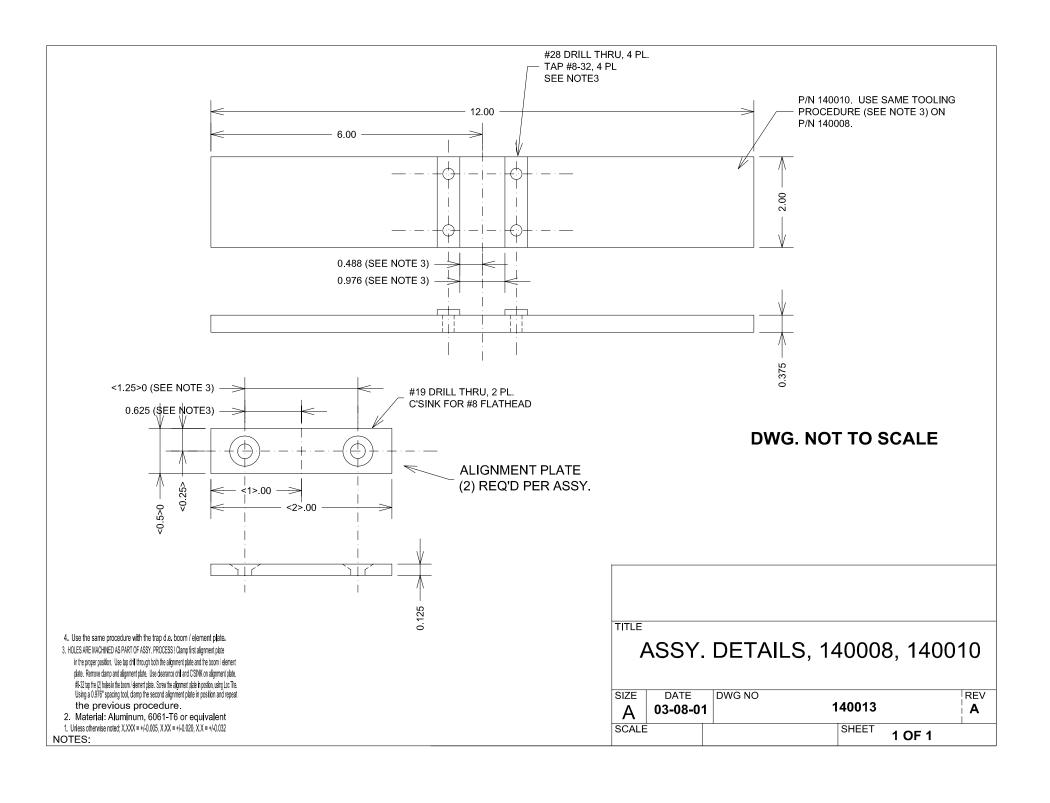


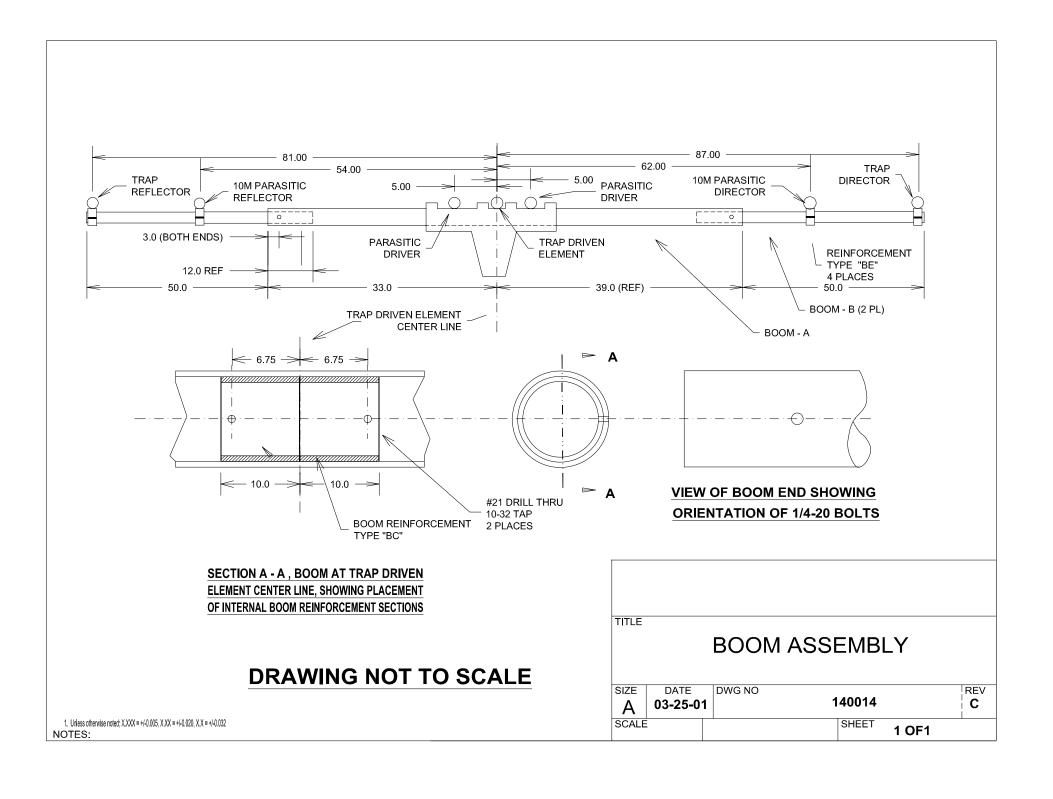


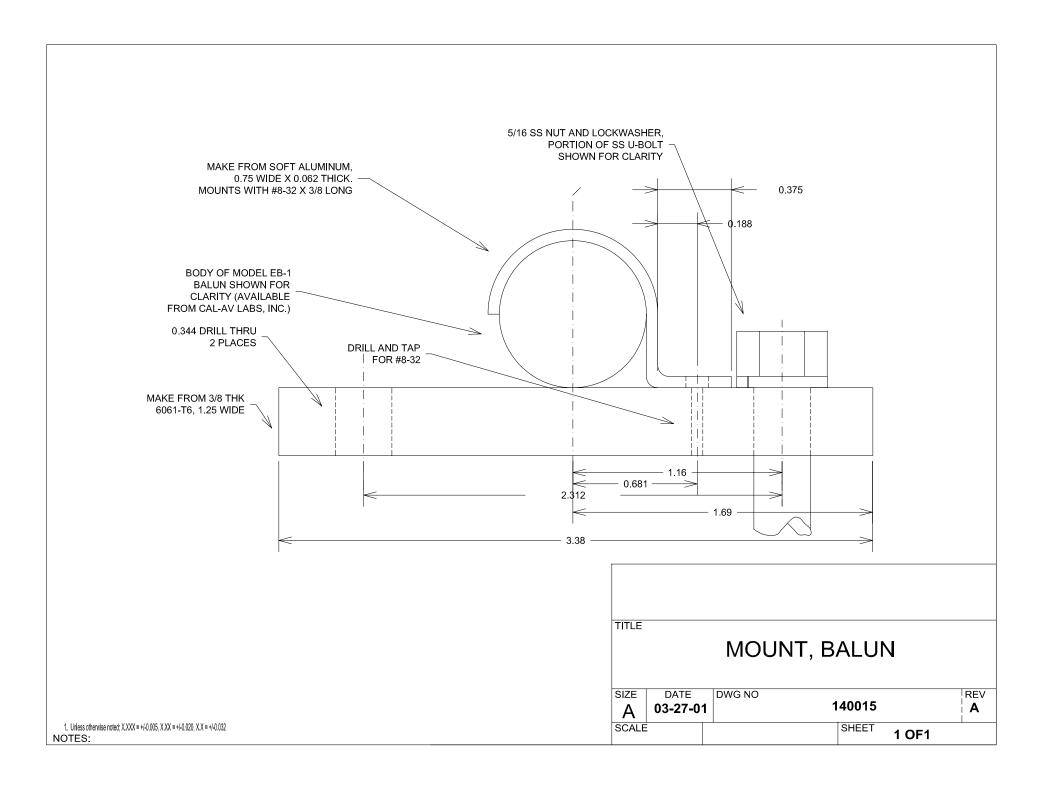


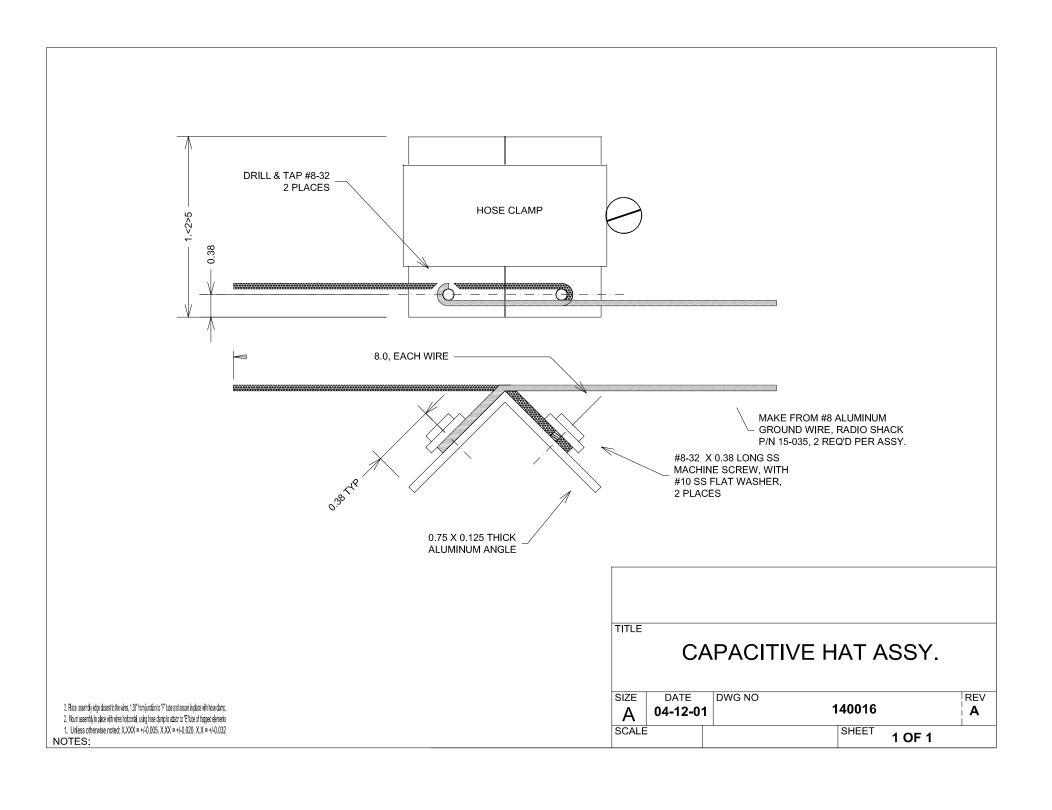
2. Material: 6061-T6 or equiv. by 0.38 thick, 6 required
1. Unless otherwise noted; XXXX = +/-0.005, XXX = +/-0.020, XX = +/-0.032
NOTES:

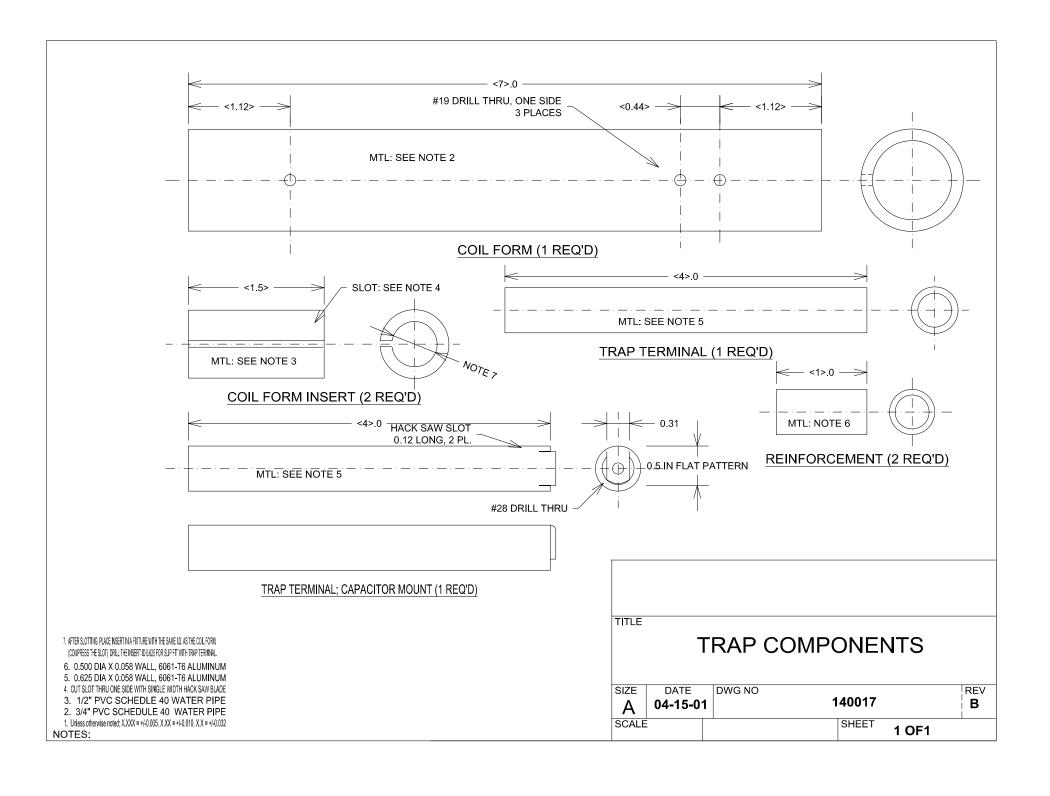


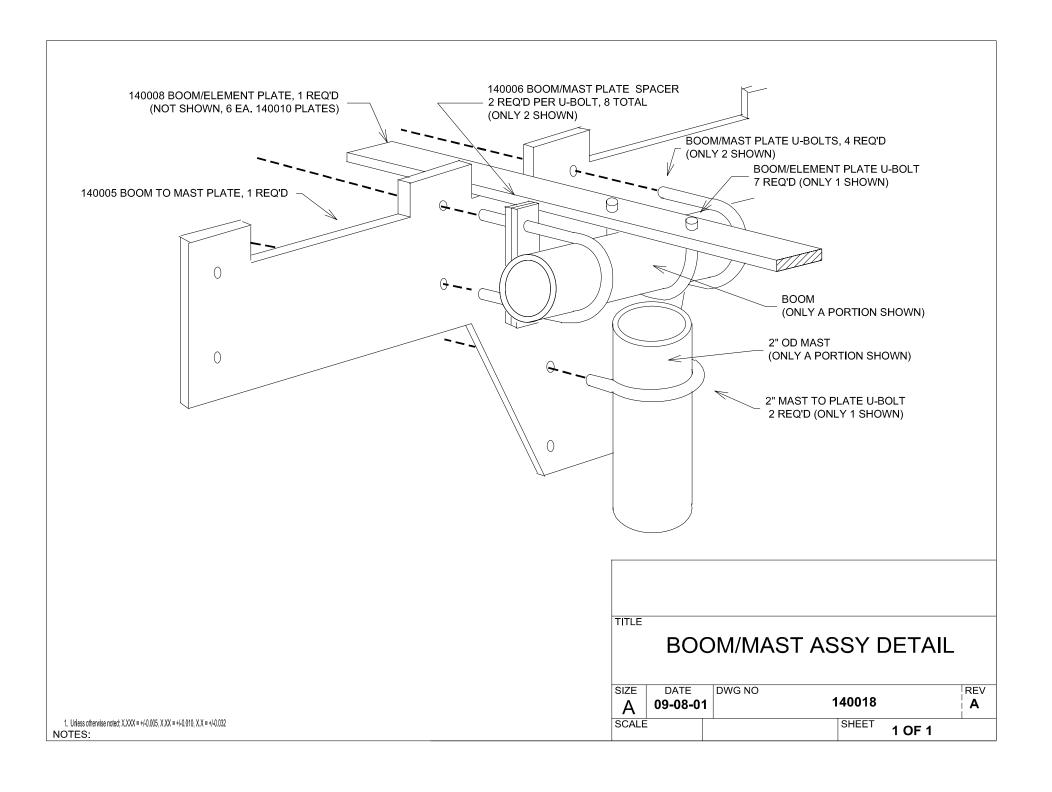


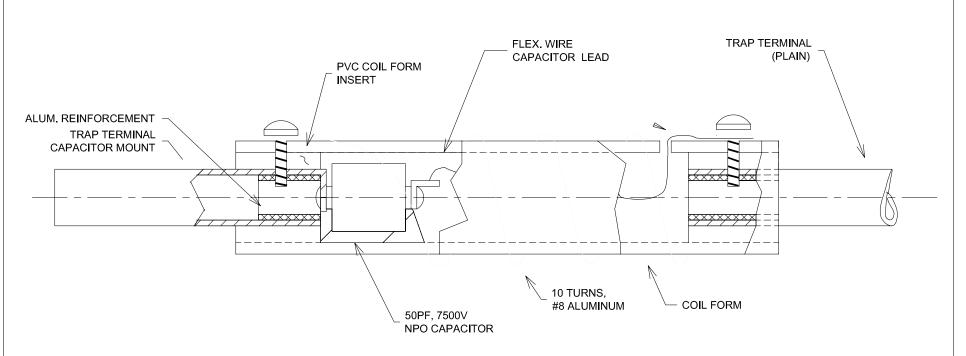












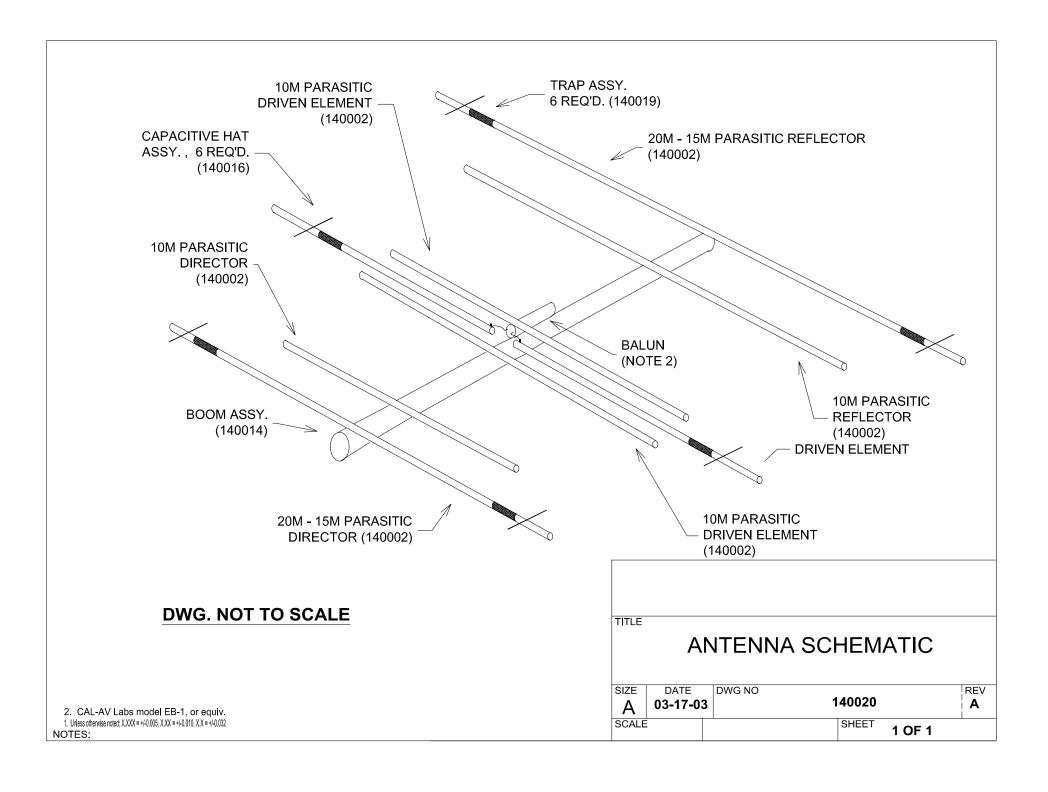
NOTES:

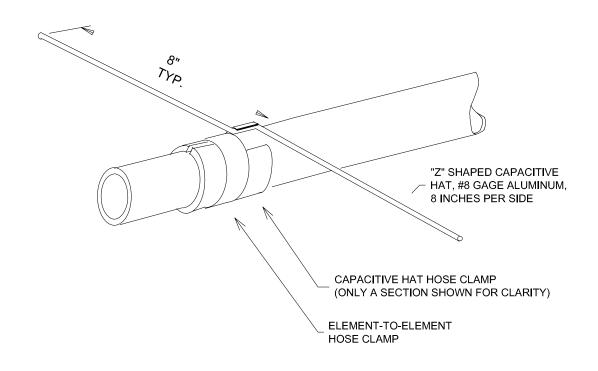
- 1. Unless otherwise noted; X.XXX = +/-0.005, X.XX = +/-0.010, X.X = +/-0.032
- 2. Assemble the Trap Term/Cap mount, Capacitor, and flex wire Cap, lead as an assembly,
- 3. Insert one Coll Form Insert in the end of the Coll Form that has ONE hole through the side wall.
- 4. Press the Coll Form Insert until the end of the Coll Form and Insert are aligned.
- 5. Insert the assembly of note (2), Trap Terminal first, into the OPPOSITE end of the Coil Form.
- 6. Push the assembly through the Coll Form Insert until the Trap Terminal portion protrudes 2.5 inches.
- 7. Feed the Flex Wire Capacitor Lead through the "inside" hole at the other end of the Coll Form.
- 8. Install the remaining Coil Form Insert in the open end of the Coil Form.
- 9. As done before, press the Insert until it is flush with the end of the Coll Form.
- 10. Insert the Plain Trap Terminal until 2.5 inches remains exposed.
- 11. Using 5-Minute Epoxy and a screwdriver, glue and insert the Alum. Reinforcement pieces.
- 12. Using the 2 holes in the Coil Form as a guide, drill the appropriate size hole in each end of the Coil Form for the terminal screw.
- 13. This model used a #8-32 SS screw, and required the usual tap size drill, and tapping operation.
- 14. Insert the two terminal screws/washers, and attach one end of the aluminum wire Capacitor end.
- 15. Wind the coil carefully, starting the first turn as shown, so as to clear most of the capacitor.
- 16. Terminate the other coll end and the capacitor Flex Wire.
- 17. Adjust the trap resonant frequency to range from 21.175 to 21.200 MHz by squeezing or spreading turns.
- 18 Coat the completed Coil Form/Winding assy, with 2 layers of epoxy paint (mask the Alum Trap Terms)

DWG. NOT TO SCALE

(SEE DWG. 140017 FOR COMPONENT DETAILS)

v.	TITLE		TRAF	P ASS	SY.		
	SIZE	DATE	DWG NO	14	0019		REV
	A	03-13-03	5				Α
	SCALE			S	HEET	1 OF 1	





TITLE

ALTERNATIVE CAPACITIVE HAT ASSY.

1. Unless otherwise noted; X,XXX = +/-0.005, X,XX = +/-0.010, X,X = +/-0.032 NOTES: