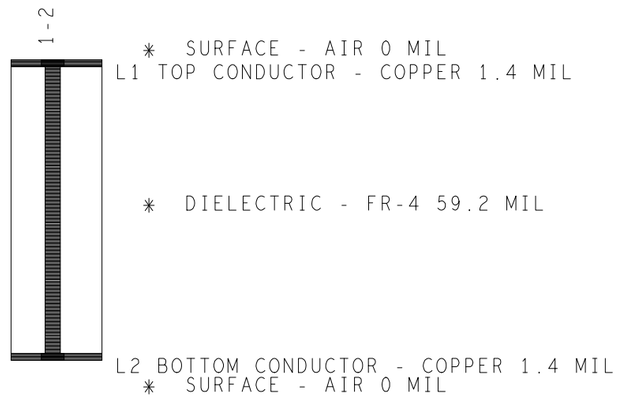
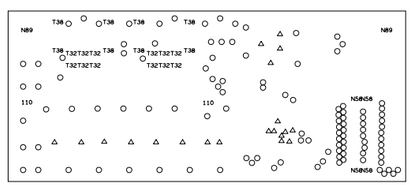
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DESIGN CROSS SECTION CHART



CLASS II FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED)

1. BOARDS SHALL BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED IPC-D-356 NETLIST.
2. THIS BOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH IPC-6012A CLASS II SPECIFICATIONS AND MEET IPC-600 CLASS II ACCEPTABILITY STANDARDS.
3. MATERIAL:
   a. FR4 PER IPC 4101B/24 /26, OR /28.
   b. SIGNAL LAYERS TO BE 1 OZ. COPPER.
   ~~c. PLANE LAYERS TO BE 1 OZ. COPPER.~~
   d. OVERALL THICKNESS TO BE 0.062" +/- 10%
4. LEGEND:
   a. WHITE NON-CONDUCTIVE EPOXY INK BOTH SIDES.
5. SOLDERMASK:
   a. APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR MATTE BLUE, BOTH SIDES.
6. PLATING FINISH:
   a. HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
   ~~b. IMMERSION SILVER (Ag).~~
7. PROCESS ALLOWANCES:
   a. MAXIMUM BOW AND TWIST ACROSS DIAGONAL CORNERS OF THE BOARD SHALL NOT EXCEED 0.75%.
   b. HOLE DIMENSIONS APPLY AFTER PLATING.
   c. ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.
   d. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003".
   e. CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".
   f. REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.
   g. CUT OUTSIDE OF 0.001" BOARD OUTLINE.

DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	FINISHED_SIZE	PLATED	QTY
○	10.0	PLATED	114
△	12.0	PLATED	20
T32	32.0	PLATED	12
T38	38.0	PLATED	8
N58	58.0	NON-PLATED	4
N89	89.0	NON-PLATED	2
110	110.0	NON-PLATED	2

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	ESP G3 CAM204 Type 6 Elf Expansion		
DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 Degree FRACTIONS +			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA		
			SIZE B	REVISION A	DWG NO 100221153
	DESIGNED BY: SCOTT JENSEN				
	LAYOUT BY: JOSE ROSAL		SCALE 1-1		SHEET 1-1