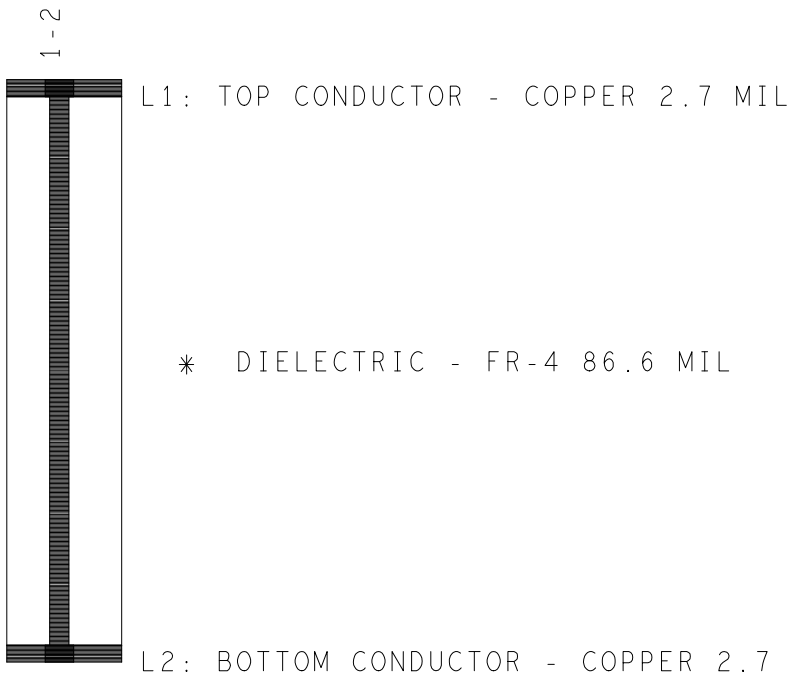


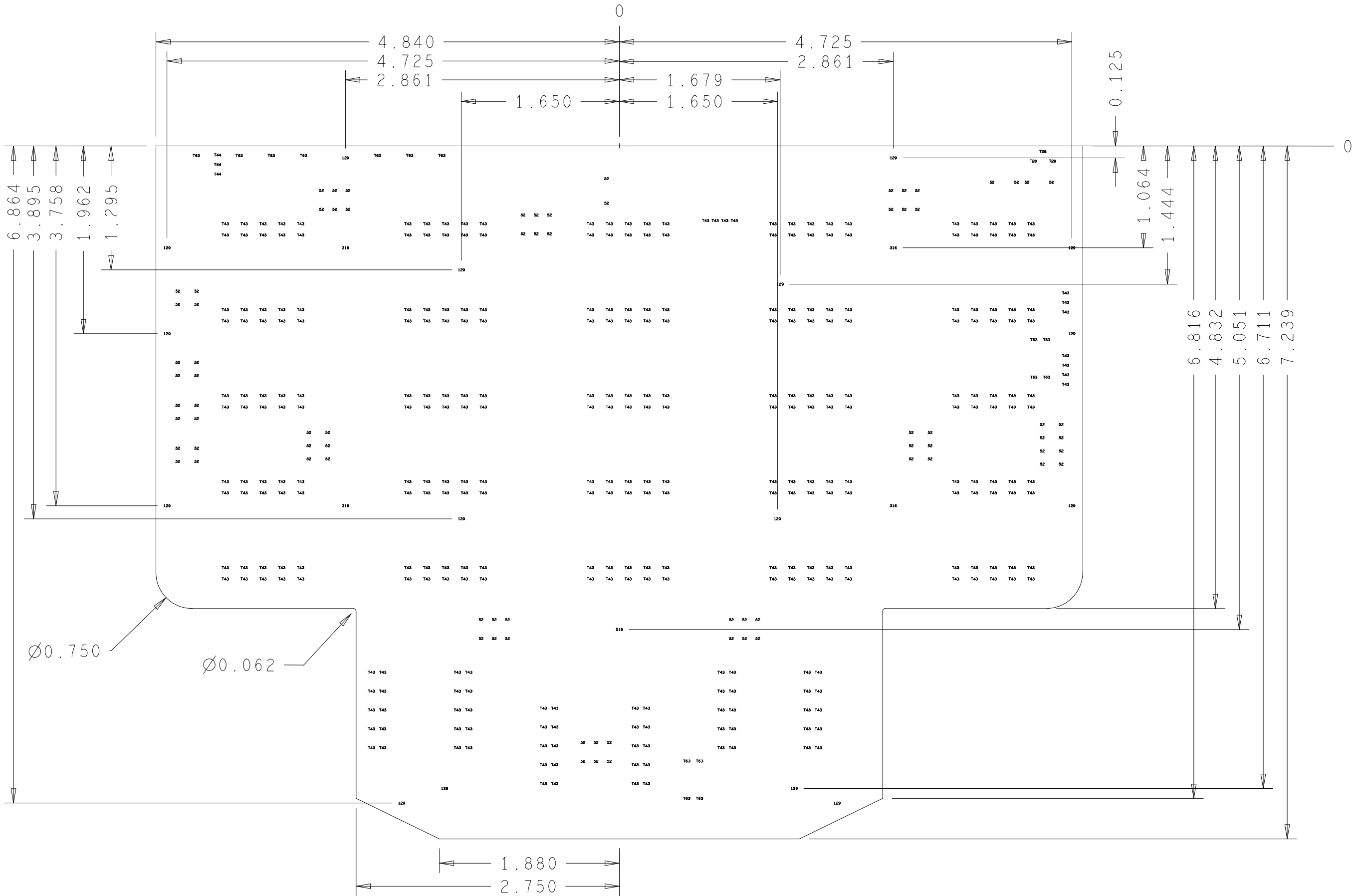
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DESIGN CROSS SECTION CHART
TOTAL THICKNESS 92 MIL

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 2 OZ. COPPER
 - c. ~~OVERALL THICKNESS TO BE 0.092" +/- 0.008"~~
4. ~~LEGEND:~~
 - a. ~~WHITE NON CONDUCTIVE EPOXY INK BOTH SIDES.~~
5. ~~SOLDERMASK / LIQUID PHOTO IMAGEABLE (LPI) SOLDER MASK OVER BOTH SIDES PER IPC 6013 CLASS 4, SOLDER BLACK, BOTH SIDES.~~
6. PLATING FINISH:
 - a. ~~HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.~~
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	SIZE	PLATED	QTY
129	28.0	PLATED	3
143	43.0	PLATED	321
144	44.0	PLATED	3
52	52.0	PLATED	78
163	63.0	PLATED	15
129	129.0	NON-PLATED	16
316	316.0	NON-PLATED	4
516	516.0	NON-PLATED	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 Degree FRACTIONS .	SIGNATURES	DATE	LRAUV BATTERY PACK CONTROLLER		
			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA		
	DESIGNED BY: engineer		SIZE C	REVISION PROTO-A	DWG NO 10021057
	LAYOUT BY: JOSE ROSAL		SCALE 1-1	SHEET 1-1	