

VIEW Z-Z

1. SEE SHEET 2 FOR RECOMMENDED P.C. BOARD LAYOUT. TRUE POSITION TOLERANCE FOR P.C. BOARD LAYOUT IS .010 [0.25] AT MAX MATERIAL CONDITION. SUGGESTED BOARD THICKNESS IS .125 [3.18]

2. THE CONNECTORS DESCRIBED IN THIS DOCUMENT MEET THE REQUIREMENTS OF MIL-C-24308 AND MATE WITH ANY PLUG CONNECTOR WITH SAME INSERT ARRANGEMENT.

3. MARK WITH .047 [1.19] - .062 [1.57] HIGH CHARACTERS. FAR SIDE REFERS TO THE WIDE SIDE OF THE KEYSTONE. NEAR SIDE REFERS TO THE NARROW SIDE OF THE KEYSTONE. IF THE REAR SHELL IS TOO SMALL FOR THE ENTIRE MILITARY PART NUMBER, MARKING SHALL BE LOCATED AS FOLLOWS:

- A. "M24308" ON FRONT SHELL, FAR SIDE.
 - B. SLASH SHEET AND DASH NUMBER ON REAR SHELL, FAR SIDE.
 - C. "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
 - D. PART NUMBER ON REAR SHELL, NEAR SIDE.
- IF THE FRONT SHELL IS TOO SMALL FOR "AMP", PART NUMBER AND DATE CODE, THEN SPLIT AS FOLLOWS:
- A. PART NUMBER ON REAR SHELL, NEAR SIDE.
 - B. "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
 - C. MILITARY PART NUMBER ON REAR SHELL, FAR SIDE.

4. POINT OF ELECTRICAL ENGAGEMENT - AS MEASURED WITH A .0390 [0.991] - .0393 [0.998] DIA SQUARE ENDED TEST PIN.

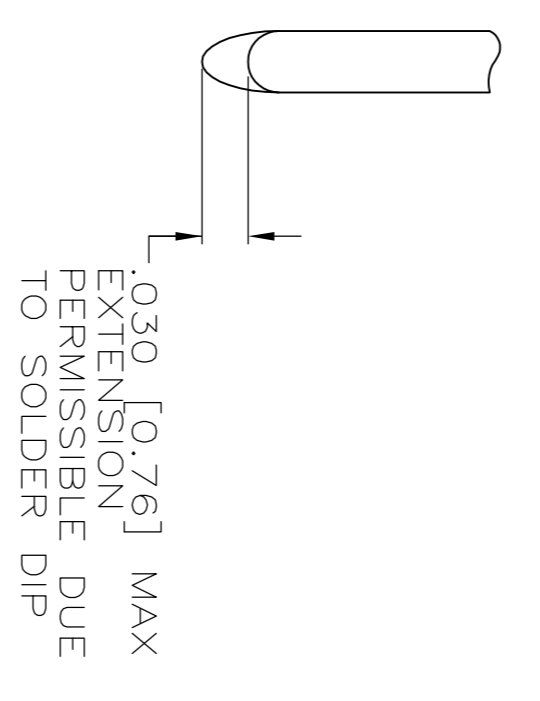
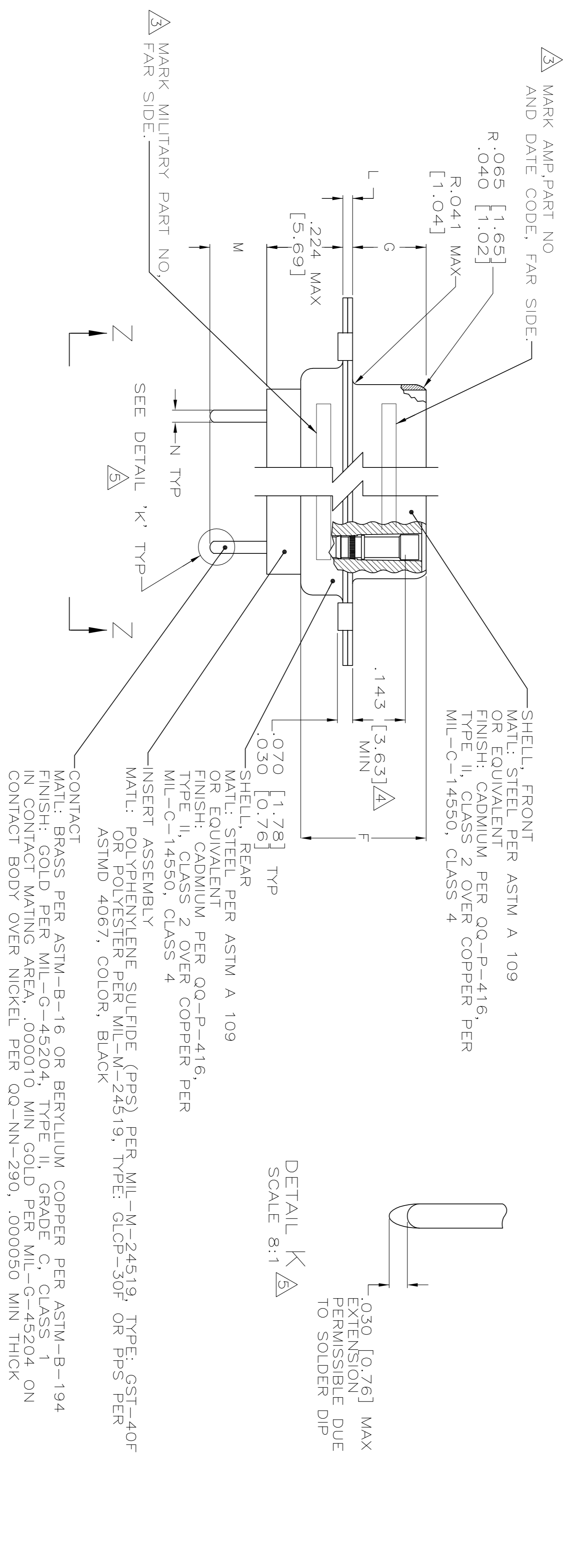
5. SOLDER DIP PER MIL-STD-2000 COMPOSITION Sn63 CONFORMING TO QQ-S-571. COVERAGE SHALL BE COMPLETE TO A DISTANCE .020 [0.51] MAX FROM INSERT ASSEMBLY.

6. THE SOLDER DIP PROCESS IS PERFORMED SUBSEQUENT TO THE COMPLETION OF PRODUCTION OF THE MILITARY QUALIFIED CONNECTOR. DIMENSIONS APPLY PRIOR TO SOLDER DIPPING.

7. SPACERS (QTY 2) ARE SUPPLIED WITH CONNECTORS (NOT ATTACHED TO THE CONNECTOR).

8. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.

9. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100.



DETAIL K SCALE 8:1

CONTACT MATL: BRASS PER ASTM-B-16 OR BERYLLIUM COPPER PER ASTM-B-194 FINISH: GOLD PER MIL-C-45204, TYPE II, GRADE C, CLASS 1 IN CONTACT MATING AREA, .000010 MIN GOLD PER MIL-C-45204. ON CONTACT BODY OVER NICKEL PER QQ-MN-290, .000050 MIN THICK

INSERT ASSEMBLY MATL: POLYPHENYLENE SULFIDE (PPS) PER MIL-M-24519, TYPE: GST-40F OR POLYESTER PER MIL-M-24519, TYPE: GLCP-30F OR PPS PER ASTM D 4067, COLOR: BLACK

MATL: STEEL PER ASTM A 109 OR EQUIVALENT FINISH: CADMIUM PER QQ-P-416, PER MIL-C-14550, CLASS 4

MATL: STEEL PER ASTM A 109 OR EQUIVALENT FINISH: CADMIUM PER QQ-P-416, PER MIL-C-14550, CLASS 4

SHELL, FRONT MATL: STEEL PER ASTM A 109 OR EQUIVALENT FINISH: CADMIUM PER QQ-P-416, PER MIL-C-14550, CLASS 4

SHELL, REAR MATL: STEEL PER ASTM A 109 OR EQUIVALENT FINISH: CADMIUM PER QQ-P-416, PER MIL-C-14550, CLASS 4

SPACER MATL: ALUMINUM ALLOY PER ASTM B 211 FINISH: IRIDIUM PER MIL-C-5541, CLASS 3, COLOR GOLD

QTY	DESCRIPTION	WGT	UNIT	MATERIAL	FINISH	INSERT ARRANGEMENT	NO. OF POS	SHELL SIZE	P/N ON CONNECTOR	P/N ON CONNECTOR	PART NUMBER
50	M24308/23-11F	443976-5	1-443976-0			MS18277-1	50	5	M24308/23-11F	443976-5	
37	M24308/23-10F	443976-4	443976-9			MS18276-1	37	4	M24308/23-10F	443976-4	
25	M24308/23-9F	443976-3	443976-8			MS18275-1	25	3	M24308/23-9F	443976-3	
15	M24308/23-8F	443976-2	443976-7			MS18274-1	15	2	M24308/23-8F	443976-2	
9	M24308/23-7F	443976-1	443976-6			MS18273-1	9	1	M24308/23-7F	443976-1	
50	M24308/23-11F	443976-5	443976-5			MS18277-1	50	5	M24308/23-11F	443976-5	
37	M24308/23-10F	443976-4	443976-4			MS18276-1	37	4	M24308/23-10F	443976-4	
25	M24308/23-9F	443976-3	443976-3			MS18275-1	25	3	M24308/23-9F	443976-3	
15	M24308/23-8F	443976-2	443976-2			MS18274-1	15	2	M24308/23-8F	443976-2	
9	M24308/23-7F	443976-1	443976-1			MS18273-1	9	1	M24308/23-7F	443976-1	

1.20 REF [3.05]

1.95 MAX [4.95]

2.46±0.03 [6.25±0.08]

SPACER MATL: ALUMINUM ALLOY PER ASTM B 211 FINISH: IRIDIUM PER MIL-C-5541, CLASS 3, COLOR GOLD

SCALE 4:1

CUSTOMER DRAWING

DATE 11MAY11

BY R11

REVISIONS

REVISION 1: 11MAY11 R11

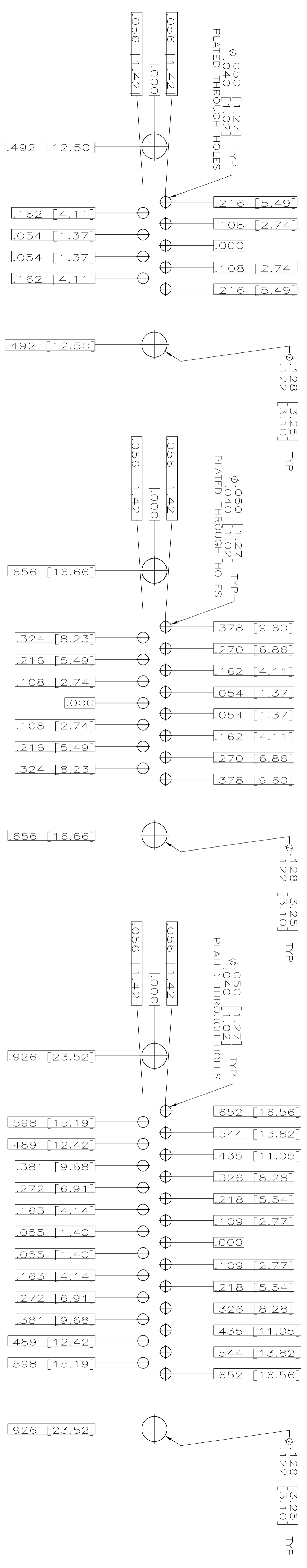
TE Connectivity

AMPLITUDE RECEPTACLE ASSY W/ SIZE 20 POSTED PC BOARD CONTACTS SERIES 109, SHELL SIZES 1 THRU 5

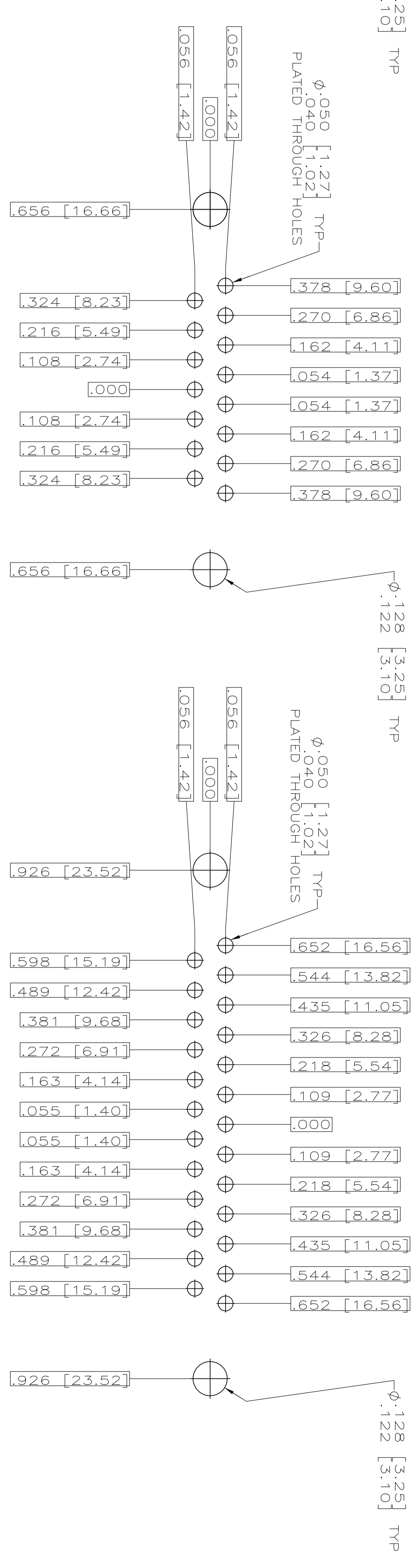
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RESTRICTED TO

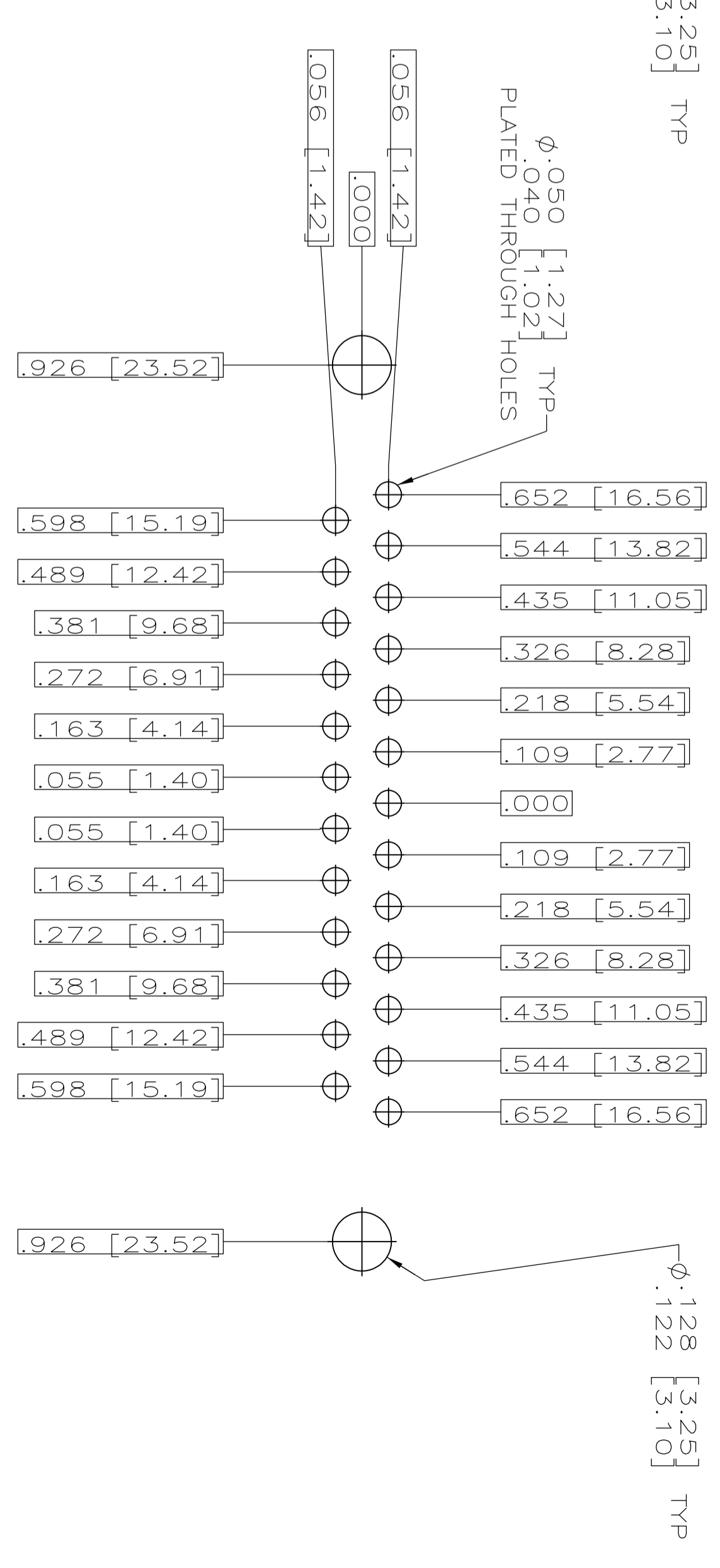
1 OF 2



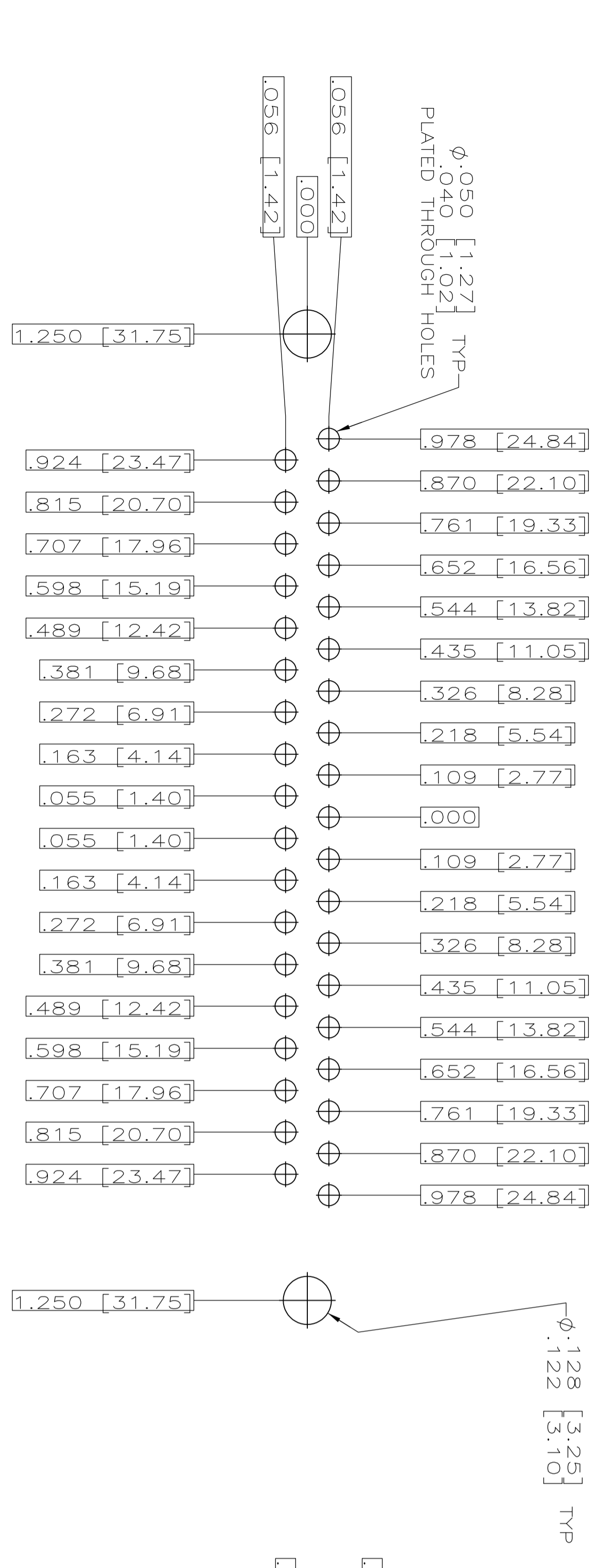
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 1 (9 POSITION)



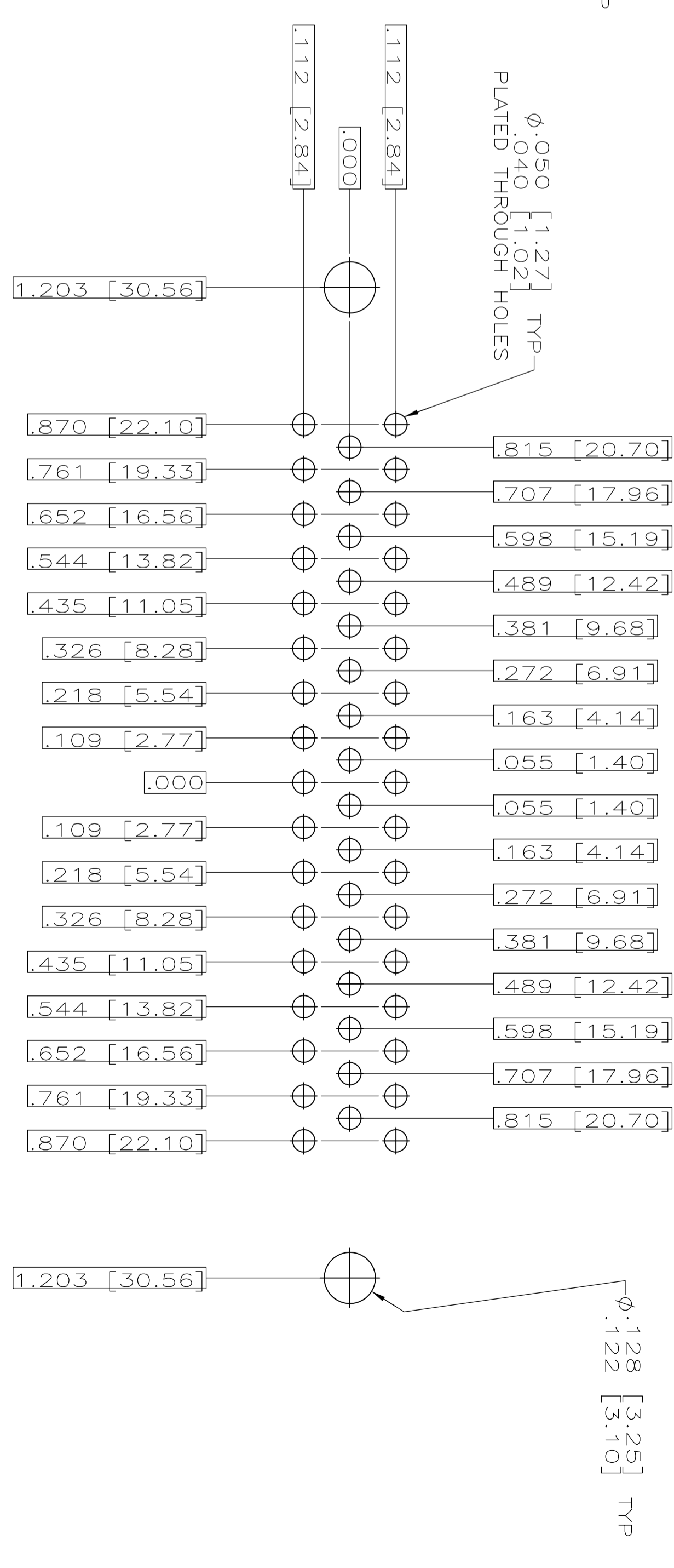
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 2 (15 POSITION)



RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 3 (25 POSITION)



RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 4 (37 POSITION)



RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 5 (50 POSITION)

THIS DRAWING IS A CONTROLLED DOCUMENT.

DM: A. Boller	OSMAY7
CHK: G. O'VER	13MAY98
DATE: 13MAY98	SCALE: 4:1
REV: 1	SHEET: 2 OF 2
REV: D1	REV: D1

STE TE Connectivity

AMPLITUDE RECEPTACLE ASSY
WITH SIZE 20 STRAIGHT POSTED
P.C. BOARD CONTACTS, SERIES 109, RESTRICTED TO

PRODUCT SPEC: MIL-C-24308
APPLICATION SPEC: SEE CALLOUTS
WEIGHT: SEE CALLOUTS

MATERIAL: SEE CALLOUTS

FINISH: SEE CALLOUTS

SIZE: A1 007799-443976