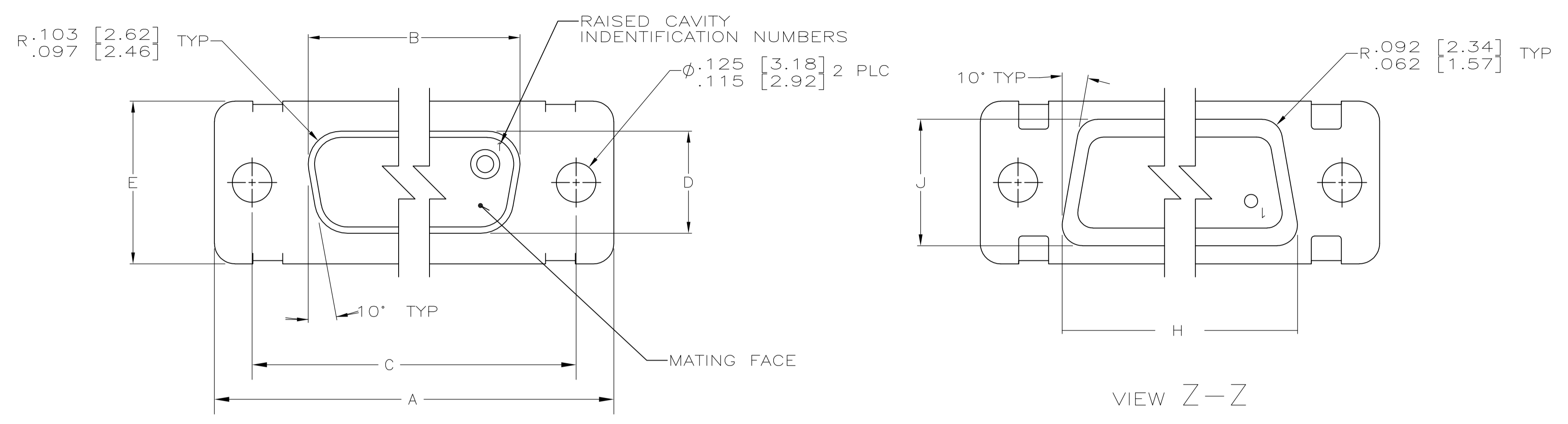
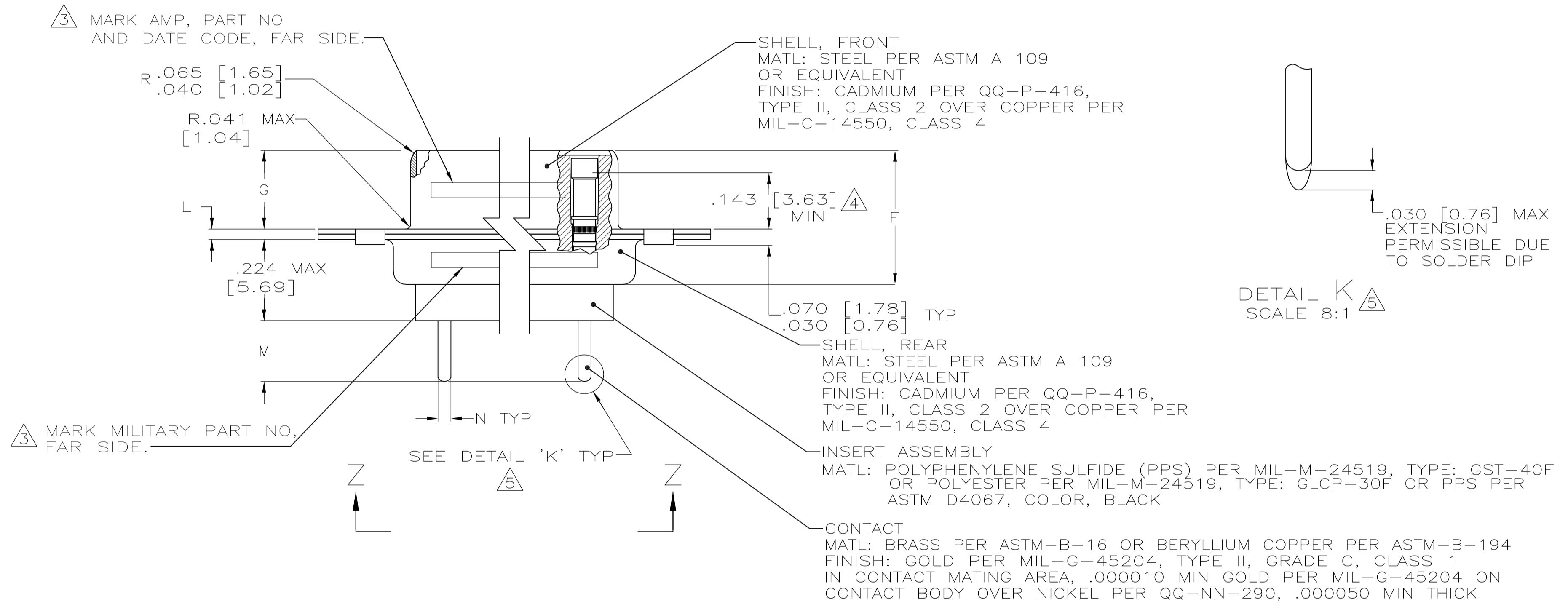


REVISONS		DATE	DN	APVD
LOC	DIST			
P	LTR	DESCRIPTION		
D1	REVISED PER ECO-11-005030		11MAR11	RK HMR

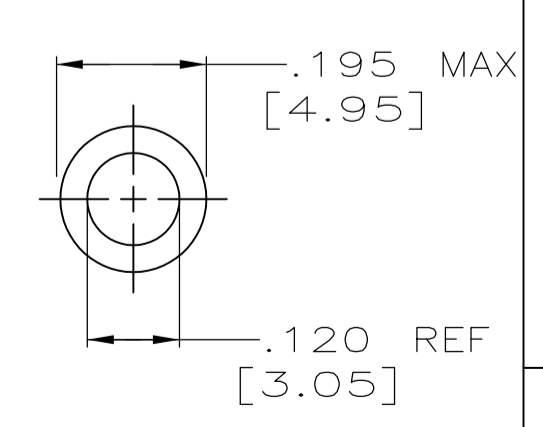


- 1. SEE SHEET 2 FOR RECOMMENDED P.C. BOARD LAYOUT. TRUE POSITION TOLERANCE FOR P.C. BOARD LAYOUT IS .010 [0.25] AT MAX MATERIAL CONDITION. SUGGESTED BOARD THICKNESS IS .125 [3.18]
  - 2. THE CONNECTORS DESCRIBED IN THIS DOCUMENT MEET THE REQUIREMENTS OF MIL-C-24308 AND MATE WITH ANY PLUG CONNECTOR WITH 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.

N	M	L	J	H	G	F	E	D	C	B	A	INSERT ARRANGEMENT	NO OF POS	SHELL SIZE	MILITARY P/N ON CONNECTOR	P/N ON CONNECTOR	PART NUMBER
.033 [0.84] .027 [0.69]	.176 [4.47] .136 [3.45]	.040 [1.02] .020 [0.51]	.544 [13.82] .524 [13.31]	2.188 [55.58] 2.168 [55.07]	.248 [6.30] .238 [6.05]	.439 [11.15] .419 [10.64]	.620 [15.75] .590 [14.99]	.428 [10.87] .418 [10.62]	2.411 [61.24] 2.401 [60.99]	2.069 [52.55] 2.059 [52.30]	2.650 [67.31] 2.620 [66.55]	MS18277-1	50	5	M24308/23-5F	443975-5	1-443975-0
			2.282 [57.96] 2.262 [57.45]	2.505 [63.63] 2.495 [63.37]			2.164 [54.97] 2.154 [54.71]	2.744 [69.70] 2.714 [68.94]	MS18276-1	37	4	M24308/23-4F	443975-4	443975-9			
.432 [10.97] .412 [10.46]	1.093 [27.76] 1.073 [27.25]	.769 [19.53] .749 [19.02]	1.635 [41.53] 1.615 [41.02]	1.857 [47.17] 1.847 [46.91]	.316 [8.03] .306 [7.77]	1.317 [33.45] 1.307 [33.20]	.976 [24.79] .966 [24.54]	1.516 [38.51] 1.506 [38.25]	2.103 [53.42] 2.073 [52.65]	1.556 [39.52] 1.526 [38.76]	1.228 [31.19] 1.198 [30.43]	MS18275-1	25	3	M24308/23-3F	443975-3	443975-8
			MS18274-1	15								2	M24308/23-2F	443975-2	443975-7		
.989 [25.12] .979 [24.87]	.648 [16.46] .638 [16.21]	1.228 [31.19] 1.198 [30.43]	MS18273-1	9	1	M24308/23-1F	443975-1	443975-6									
			MS18277-1	50	5	M24308/23-5F	443975-5	443975-5									
.544 [13.82] .524 [13.31]	2.188 [55.58] 2.168 [55.07]	.248 [6.30] .238 [6.05]	.439 [11.15] .419 [10.64]	.620 [15.75] .590 [14.99]	.428 [10.87] .418 [10.62]	2.411 [61.24] 2.401 [60.99]	2.069 [52.55] 2.059 [52.30]	2.650 [67.31] 2.620 [66.55]	2.505 [63.63] 2.495 [63.37]	2.164 [54.97] 2.154 [54.71]	2.744 [69.70] 2.714 [68.94]	MS18276-1	37	4	M24308/23-4F	443975-4	443975-4
												MS18275-1	25	3	M24308/23-3F	443975-3	443975-3
.432 [10.97] .412 [10.46]	1.093 [27.76] 1.073 [27.25]	.769 [19.53] .749 [19.02]	MS18274-1	15	2	M24308/23-2F	443975-2	443975-2									
			MS18273-1	9	1	M24308/23-1F	443975-1	443975-1									



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

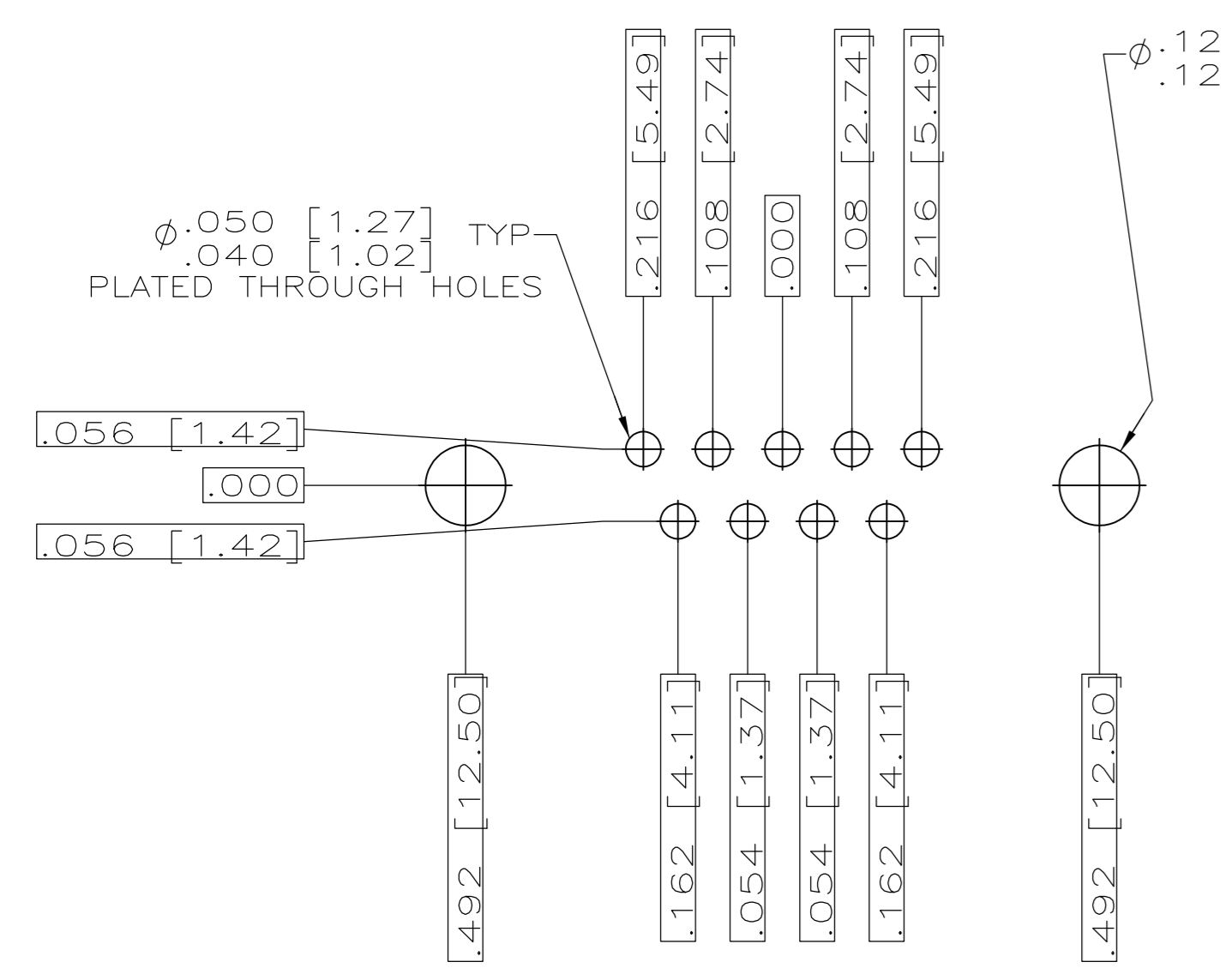
THIS DRAWING IS A CONTROLLED DOCUMENT.

STE TE Connectivity

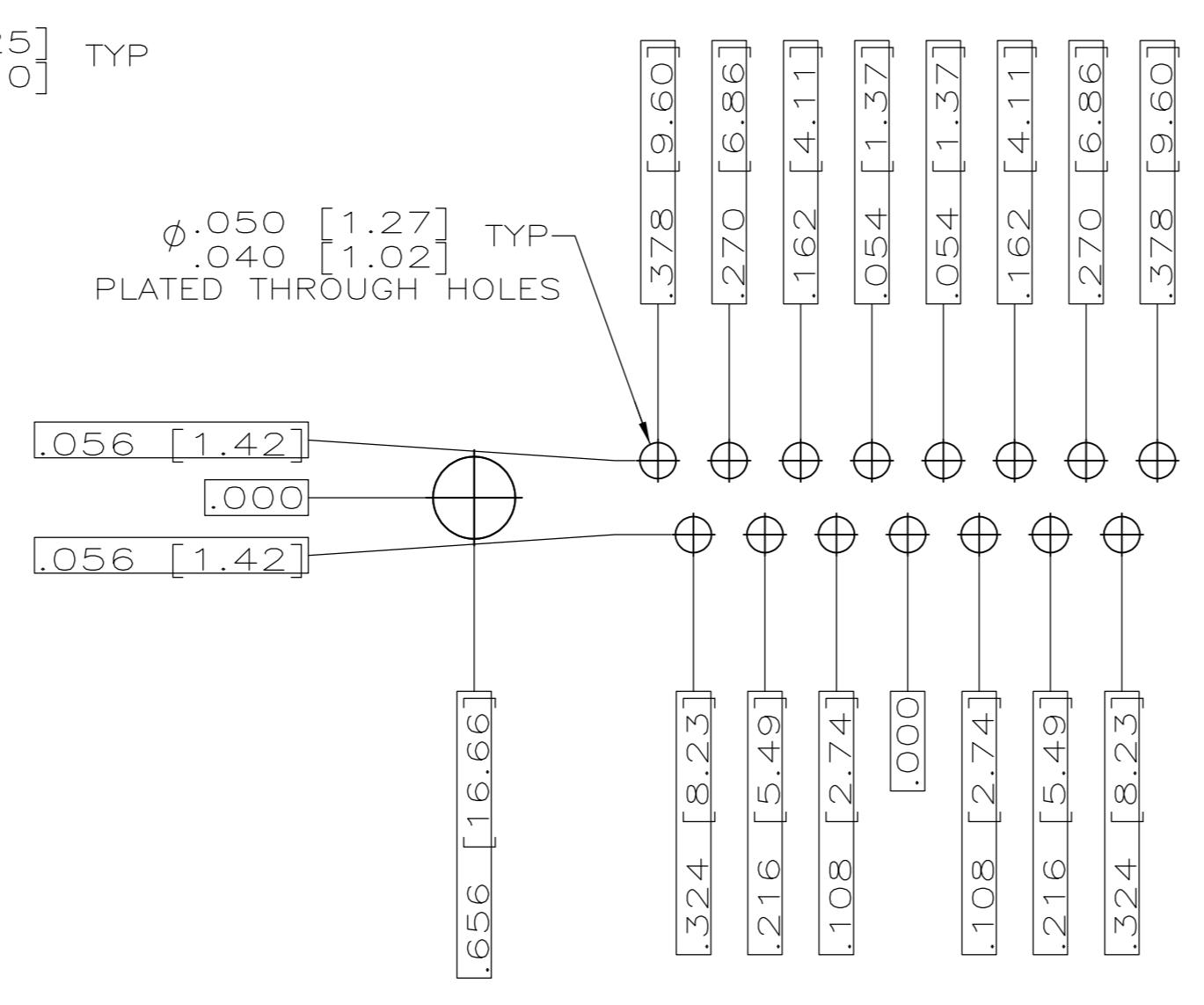
AMPLIMITE RECEPTACLE ASSY  
W/ SIZE 20 POSTED PC BOARD CONTACTS  
SERIES 109, SIZES 1 THRU 5

00779-443975

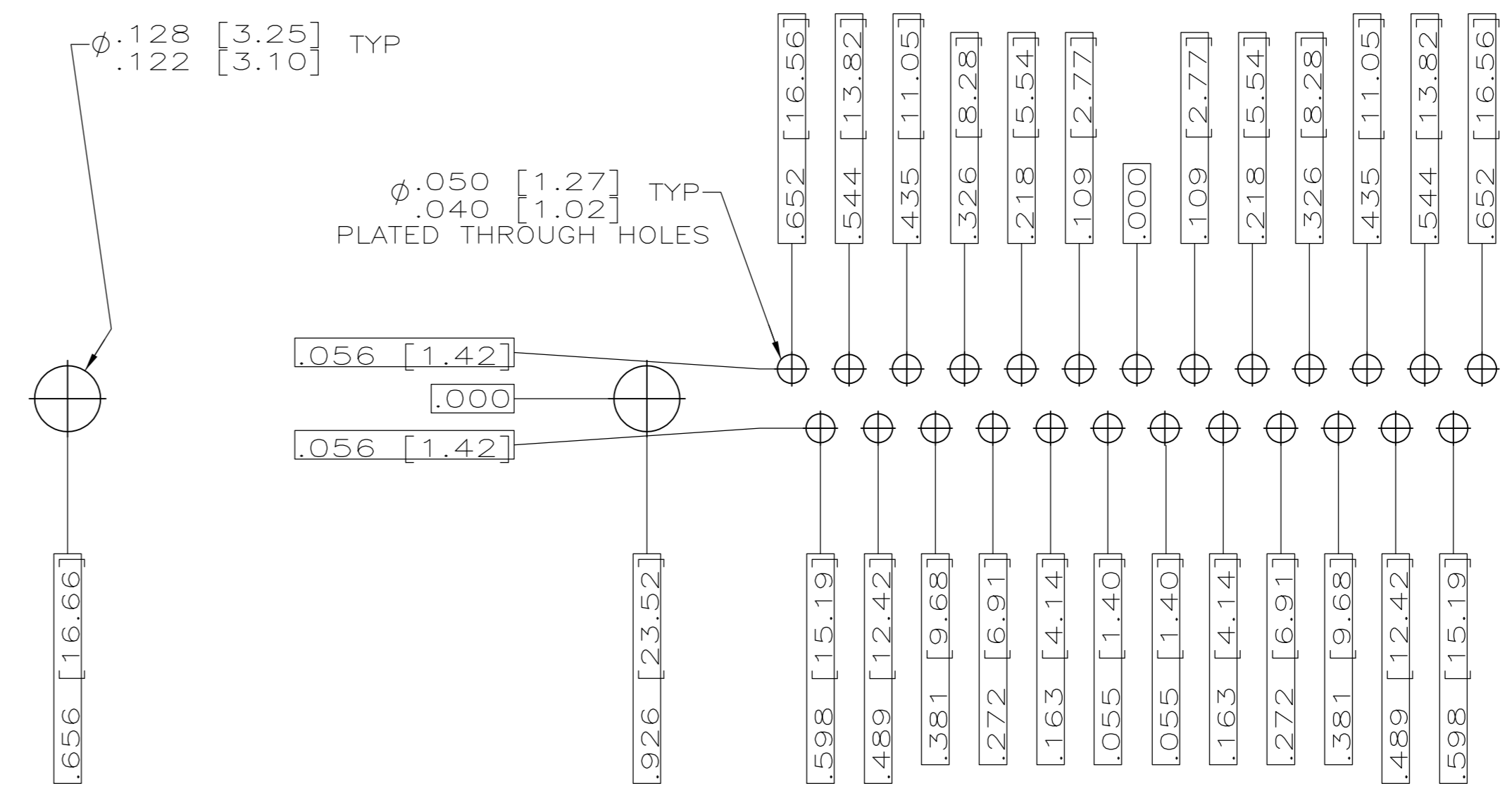
SCALE 4:1 SHEET 1 OF 2 REV D1



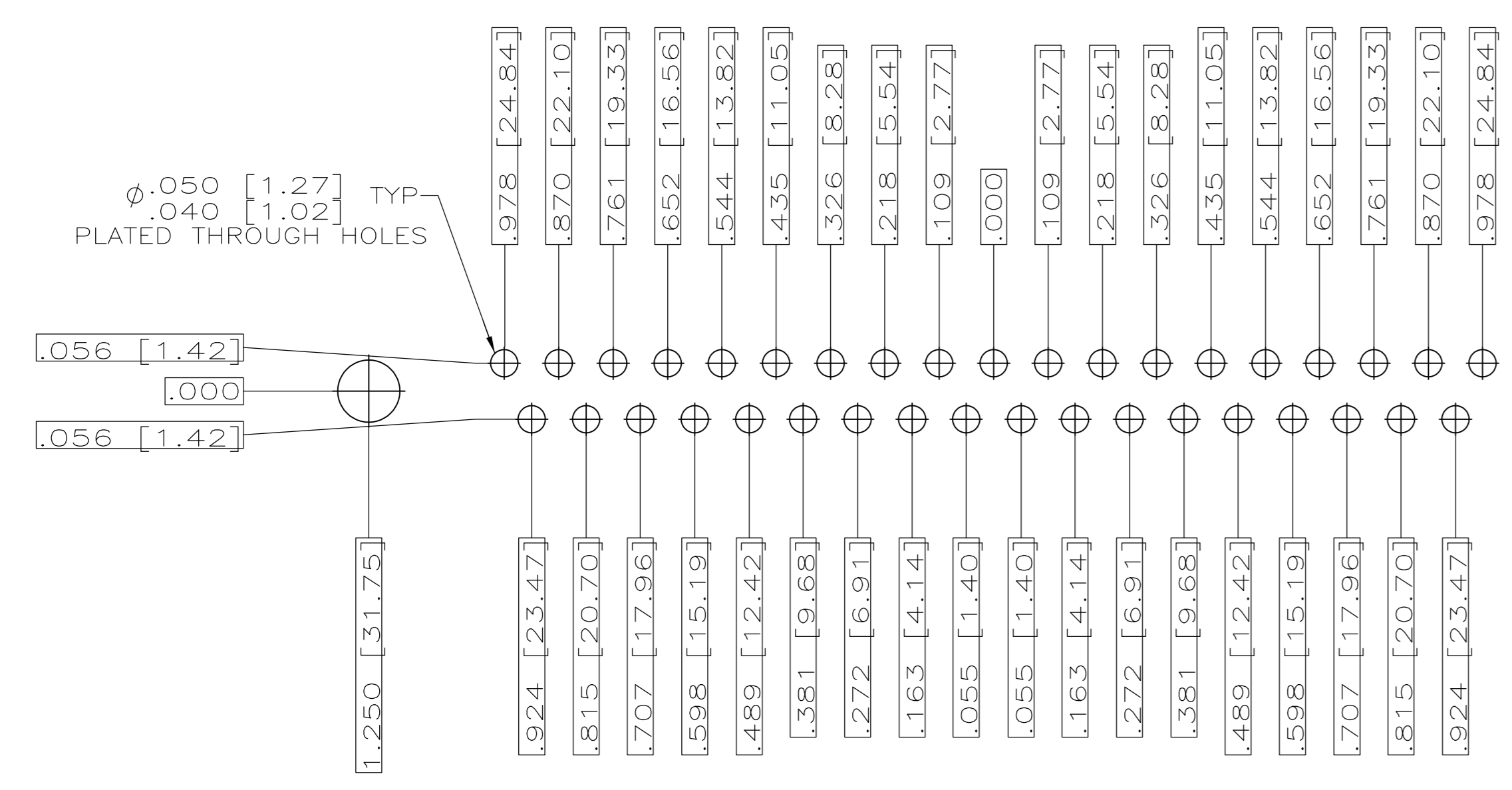
RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 1 (9 POSITION)  $\triangle$



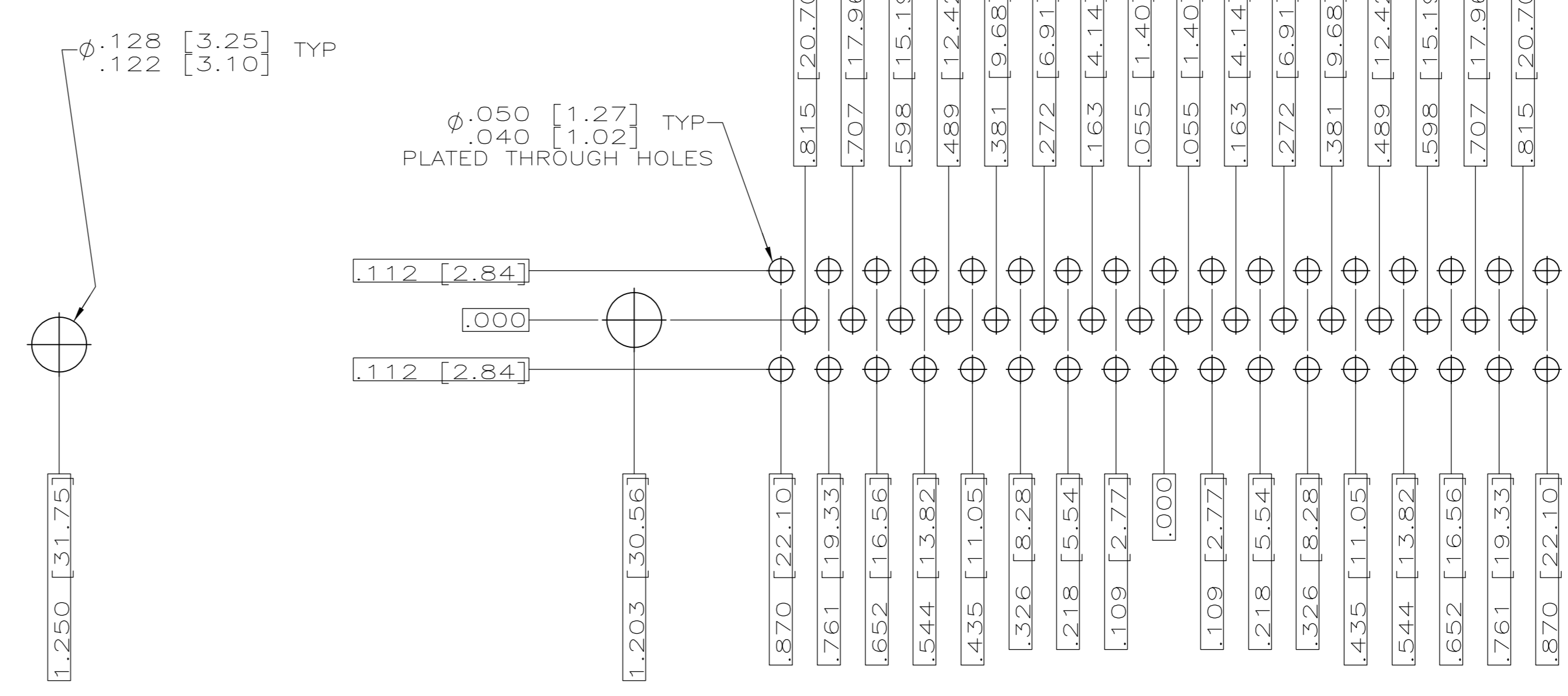
RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 2 (15 POSITION)  $\triangle$



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



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



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN J.A. Baker	OSMAY97	 TE Connectivity
DIMENSIONS: INCHES		CHK G. OVER	15MAY98	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD		NAME
0 PL	± .005	PRODUCT SPEC		AMPLIMITE RECEPTACLE ASSY WITH SIZE 20 STRAIGHT POSTED P.C. BOARD CONTACTS, SERIES 109,
1 PL	± .005	APPLICATION SPEC		
2 PL	± .005	MATERIAL		SIZE
3 PL	± .005	FINISH		DWG CODE
4 PL	± .005	MATERIAL		DRAWING NO
5 PL	± .005	FINISH		RESTRICTED TO
6 PL	± .005	MATERIAL		WEIGHT
7 PL	± .005	FINISH		A1
8 PL	± .005	MATERIAL		00779
9 PL	± .005	FINISH		443975
10 PL	± .005	MATERIAL		CUSTOMER DRAWING
11 PL	± .005	FINISH		SCALE 4:1
12 PL	± .005	MATERIAL		SHEET 2 OF 2
13 PL	± .005	FINISH		REV D1