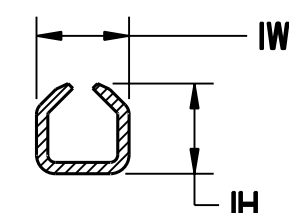
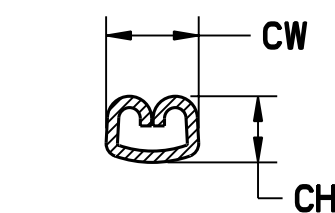
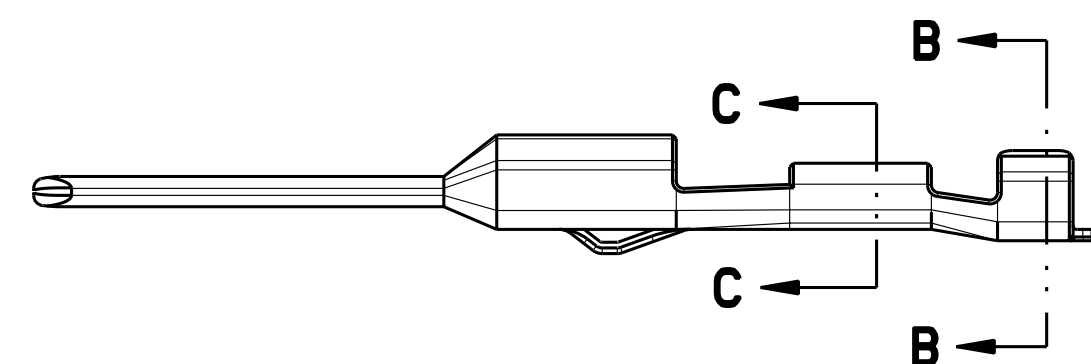
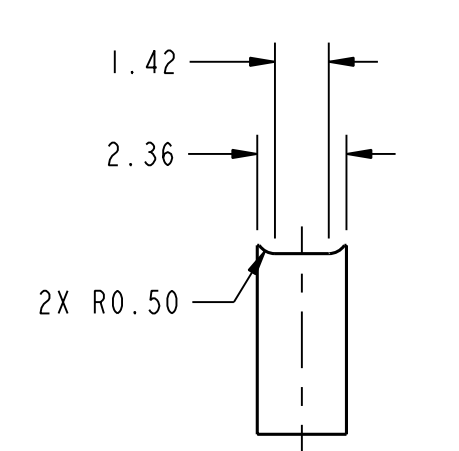


TABLE 1 - TERMINAL CRIMP DIMENSION REFERENCE TABLE

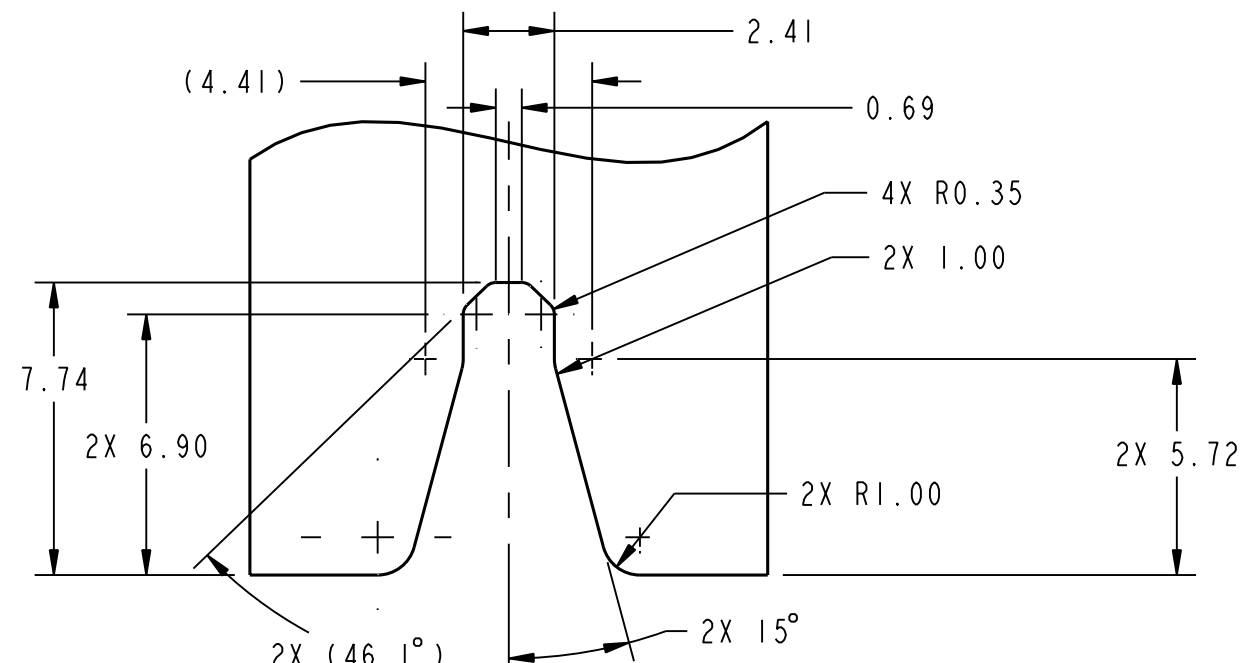
PART NO. (LEFT TO RIGHT PAYOFF)	PART NO. (RIGHT TO LEFT PAYOFF)	GRIP SIZE (ga.)	WIRE SIZE (awg)	WIRE SPECIFICATION	CONDUCTOR	CONDUCTOR	INSULATOR	INSULATOR	NOMINAL PULL TEST (N)
					CH (SEC C-C) ±0.05	CW (SEC C-C) ±0.10	IH (SEC B-B) ±0.10	IW (SEC B-B) ±0.10	
31296-0008	31296-1008	18/20	18	MIL-123A	1.25	2.15	2.40	2.45	173
31296-0008	31296-1008	18/20	20	MIL-123A	1.15	2.15	2.40	2.45	133



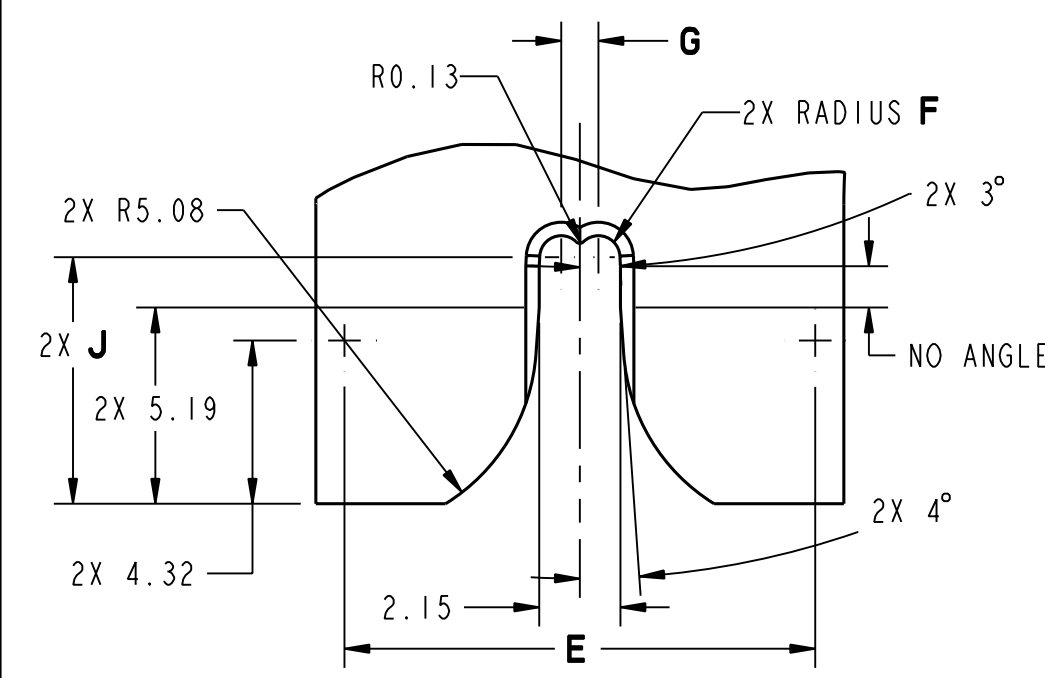
CRIMP INFORMATION



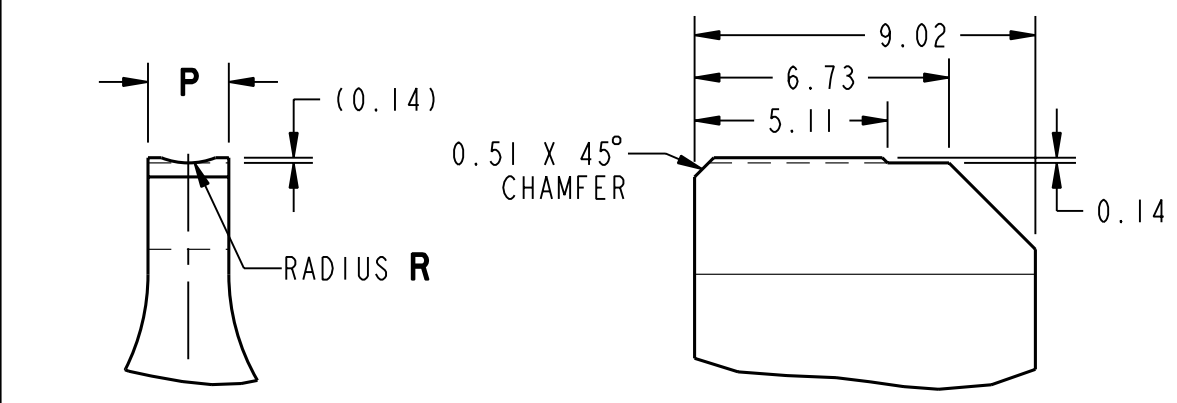
INSULATOR ANVIL
SCALE 5:1



INSULATOR PUNCH

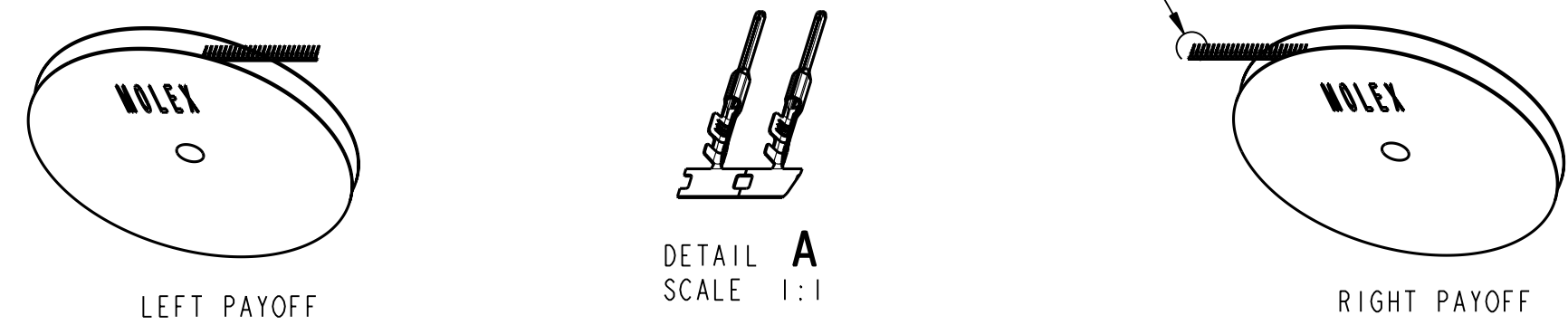


CONDUCTOR PUNCH



CONDUCTOR ANVIL
FRONT VIEW SCALE 5:1
CONDUCTOR ANVIL
SIDE VIEW

CRIMP TOOL INFORMATION



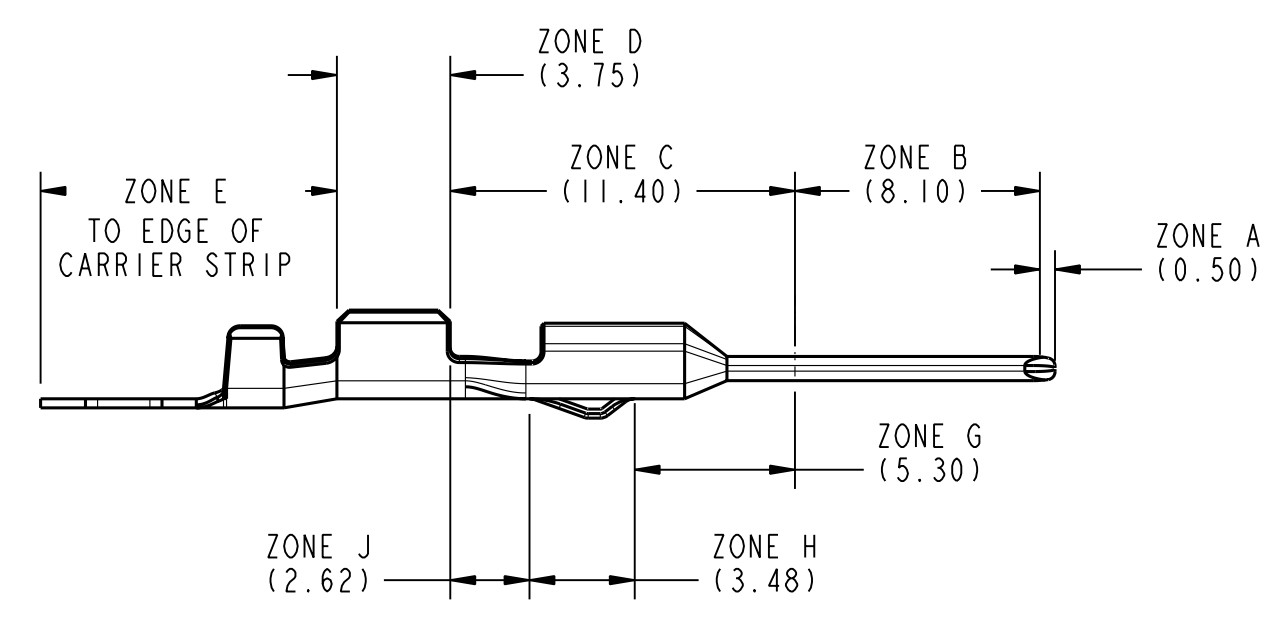
DETAIL A
SCALE 1:1

TABLE 2 - TERMINAL GRIP/CRIMP TOOL DIMENSION REFERENCE TABLE

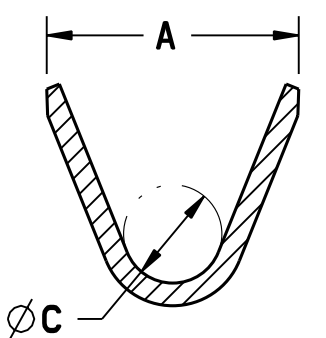
PART NO. LEFT PAYOFF	PART NO. RIGHT PAYOFF	PLATING (STAMPING)	WIRE APPLICATION		A±0.30	B±0.30	C±0.30	D±0.30	E±0.005	F±0.005	G±0.005	J±0.005	K±0.005	M±0.005	N±0.005	P±0.005	R±0.005	U±0.005	V±0.005	
			SAE	METRIC																
31296-0008	31296-1008	GOLD	18, 20	TBD	3.3	4.5	1.3	-	12.46	0.57	0.99	6.52	-	-	-	2.14	1.94	-	-	-

PLATING NOTES:

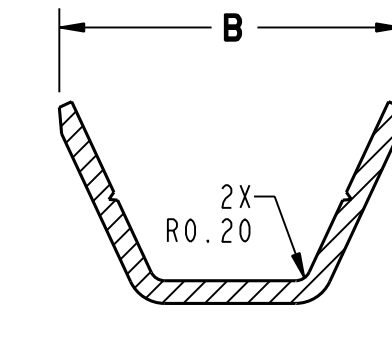
- PRECIOUS METAL PLATING: PER MOLEX ES-88 (REVISION: REL)
 - CONTACT ZONE "B" (ELECTROPLATED GOLD OVER NICKEL)
 - ZONE "A": REDUCED THICKNESS FROM ZONE "B" IS PERMITTED. ZONE "A" SHALL BE COMPLETELY COVERED TO PREVENT EXPOSED BASE METAL
 - ZONE "B": THICKNESS 1 (1.25 - 2.25 MICROMETERS) ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)
THICKNESS 2 (0.76 MICROMETER MINIMUM) ELECTRODEPOSITED GOLD CAP
 - ZONE "C": REDUCED THICKNESS FROM ZONE "B" AND ZONE "D" IS PERMITTED. ZONE "C" SHALL BE COMPLETELY COVERED TO PREVENT EXPOSED BASE METAL
 - ZONE "D": TIN PLATING EXCEPT NICKEL THICKNESS (1.25 - 2.25 MICROMETERS); ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)
THICKNESS 2 (2.50 - 4.00 MICROMETERS); ELECTRODEPOSITED TIN (100% TIN)
- ZONE "E": REDUCED TIN THICKNESS FROM ZONE "D" IS PERMITTED. ZONE "E" SHALL BE COMPLETELY COVERED WITH NICKEL.
- ZONE "G": THICKNESS 1 (1.25 - 2.25 MICROMETERS) ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)
THICKNESS 2 (0.05 MICROMETERS MINIMUM) ELECTRODEPOSITED GOLD CAP
- ZONE "H": THICKNESS 1 (1.25 - 2.25 MICROMETERS) ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)
THICKNESS 2 (0.76 MICROMETER MINIMUM) ELECTRODEPOSITED GOLD CAP
- ZONE "J": REDUCED THICKNESS FROM ZONE "D" AND ZONE "H" PERMITTED. ZONE "J" SHALL BE COMPLETELY COVERED WITH NICKEL TO PREVENT EXPOSED BASE METAL.



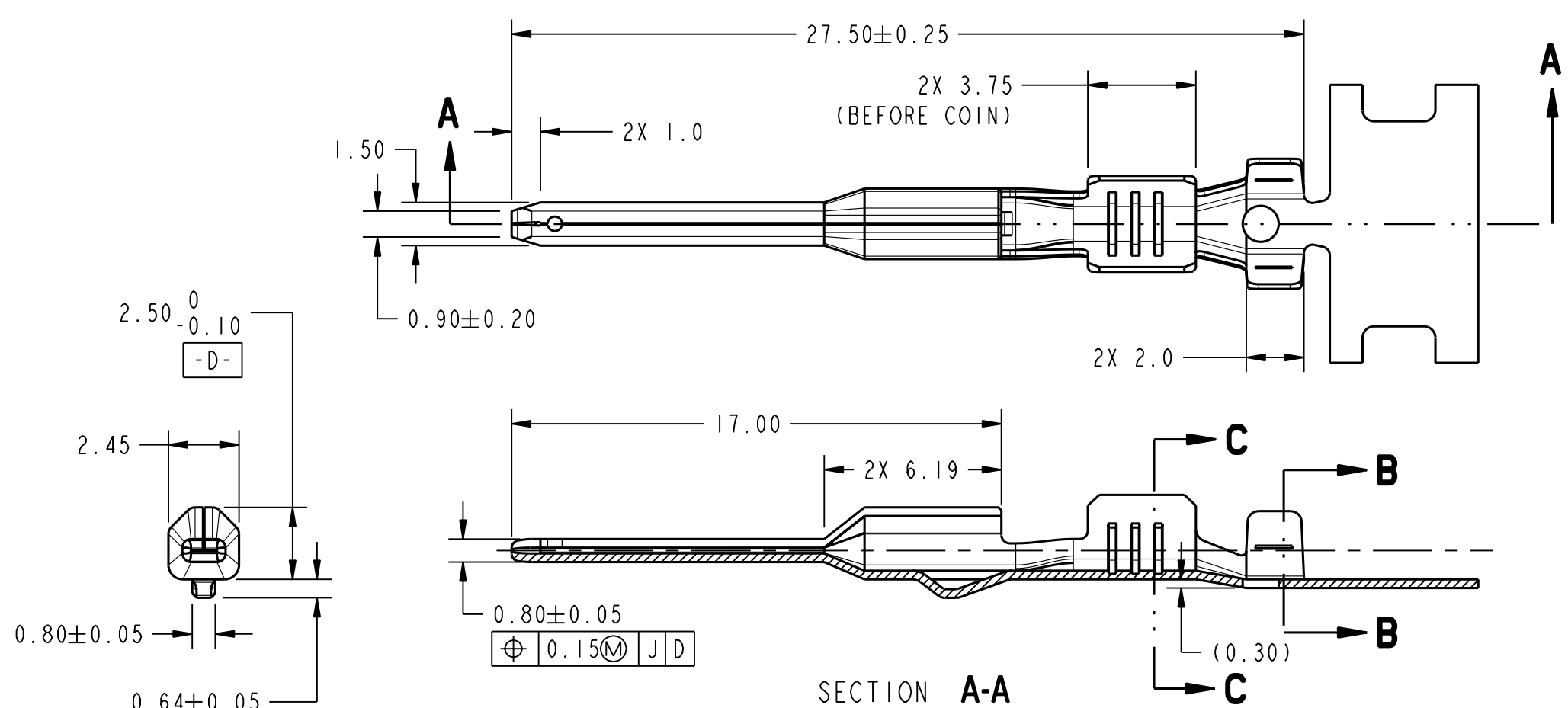
SCALE 4:1



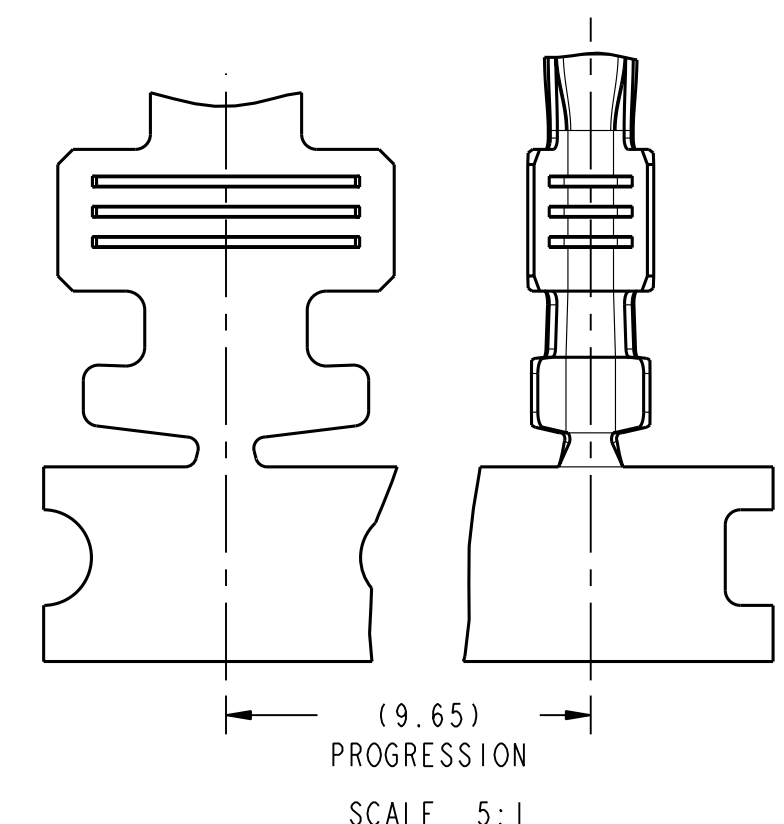
SECTION C-C
SCALE 10:1



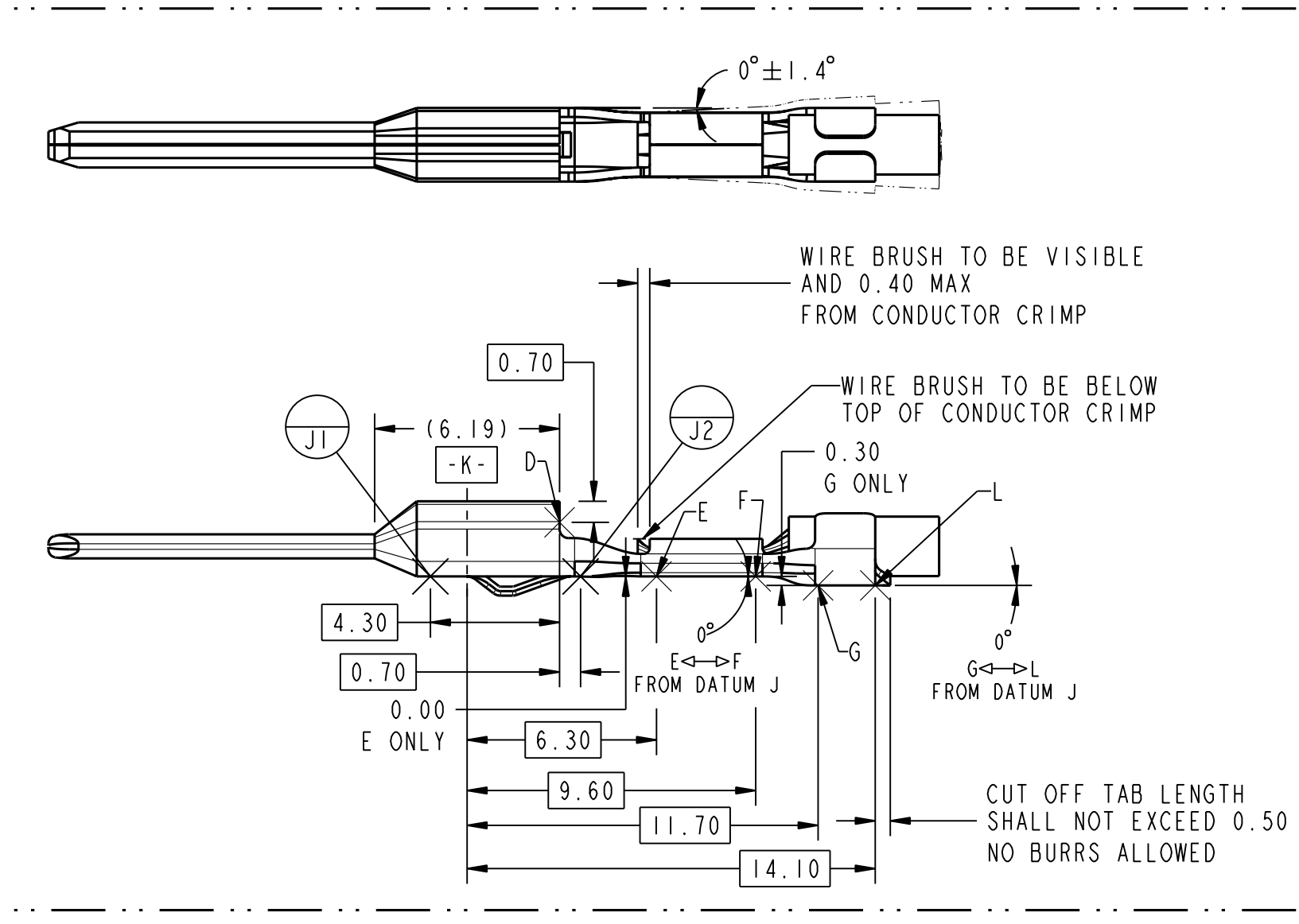
SECTION B-B
SCALE 10:1



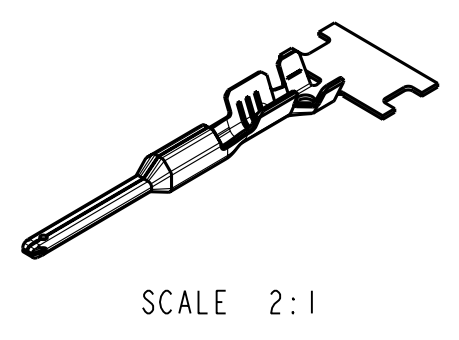
SECTION A-A



PROGRESSION
SCALE 5:1

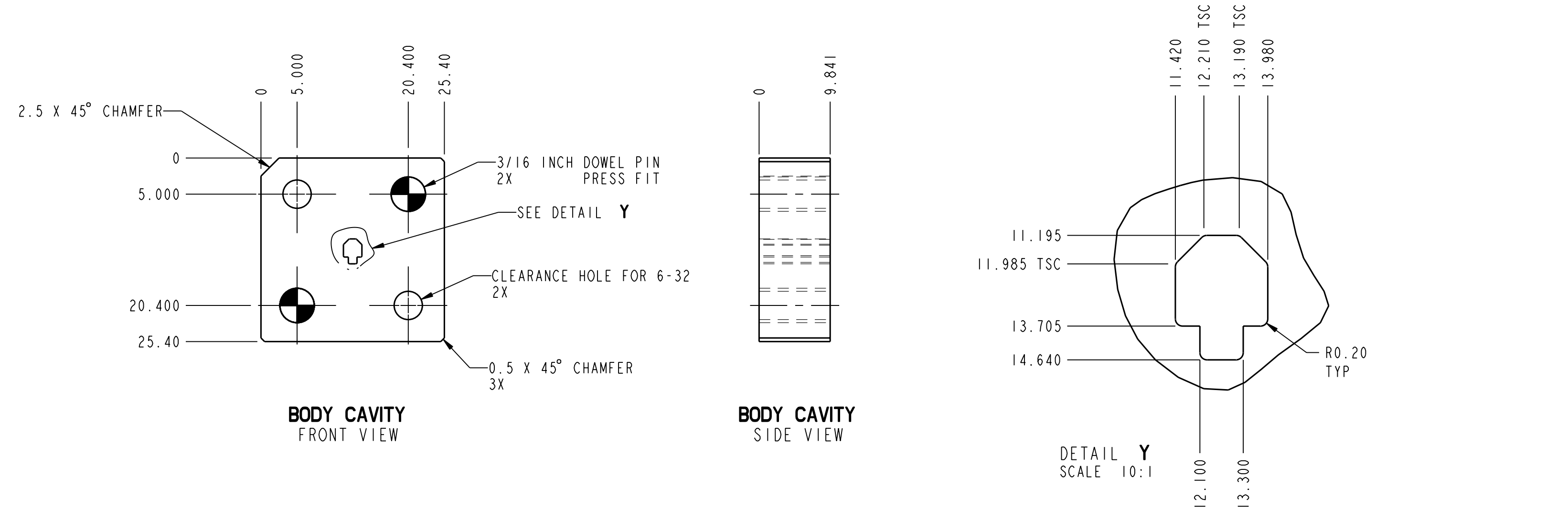


- NOTES: UNLESS OTHERWISE SPECIFIED
- MATERIAL: ASTM B422, UNS C19025, HR04
THICKNESS: 0.30 mm ±0.01
TEMPER: FULL HARD (REF.)
TENSILE: 496-572 MPA
PLATING: SEE PLATING NOTES ABOVE
 - MEETS CRIMP PERFORMANCE SPECIFICATION SAE/USCAR-21 (REL:108/29/01)
 - MEETS SAE/USCAR-2 REV 3 (TEMP CLASS 3) (REL: APRIL 2001)
SAE/USCAR-20 (REL: DECEMBER 2001)
SAE/USCAR -12 REV 2 (REL: DECEMBER 2001)
 - MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) REV. 10
 - "TSC" ON A DIMENSION TO BE INTERPRETED AS DISTANCE TO A THEORETICAL SHARP CORNER AS IF THE RADIUS WERE NOT PRESENT.
 - ENGINEERING APPROVAL REQUIRED FOR ALL SOURCING AND TOOLING OF THIS PART.
 - FOR ENGINEERING APPROVED SOURCE SEE ENGINEERING RELEASE.
 - CHANGES IN DESIGN COMPOSITION OR PROCESSING FROM THE PART PREVIOUSLY APPROVED FOR PART PRODUCTION REQUIRES PRIOR ENGINEERING APPROVAL.
 - GENERAL TOLERANCES: ±0.3 ALL ONE PLACE DIMENSIONS, ±0.10 ALL TWO PLACE DIMENSIONS, ±3° ALL ANGULAR DIMENSIONS.
 - 0.2mm MAXIMUM RADIUS PERMISSIBLE ON EDGES AND FILLETS SHOWN AS SHARP FOR STAMPING PARTS.
 - ALL RADIUS 0.25 MAX.



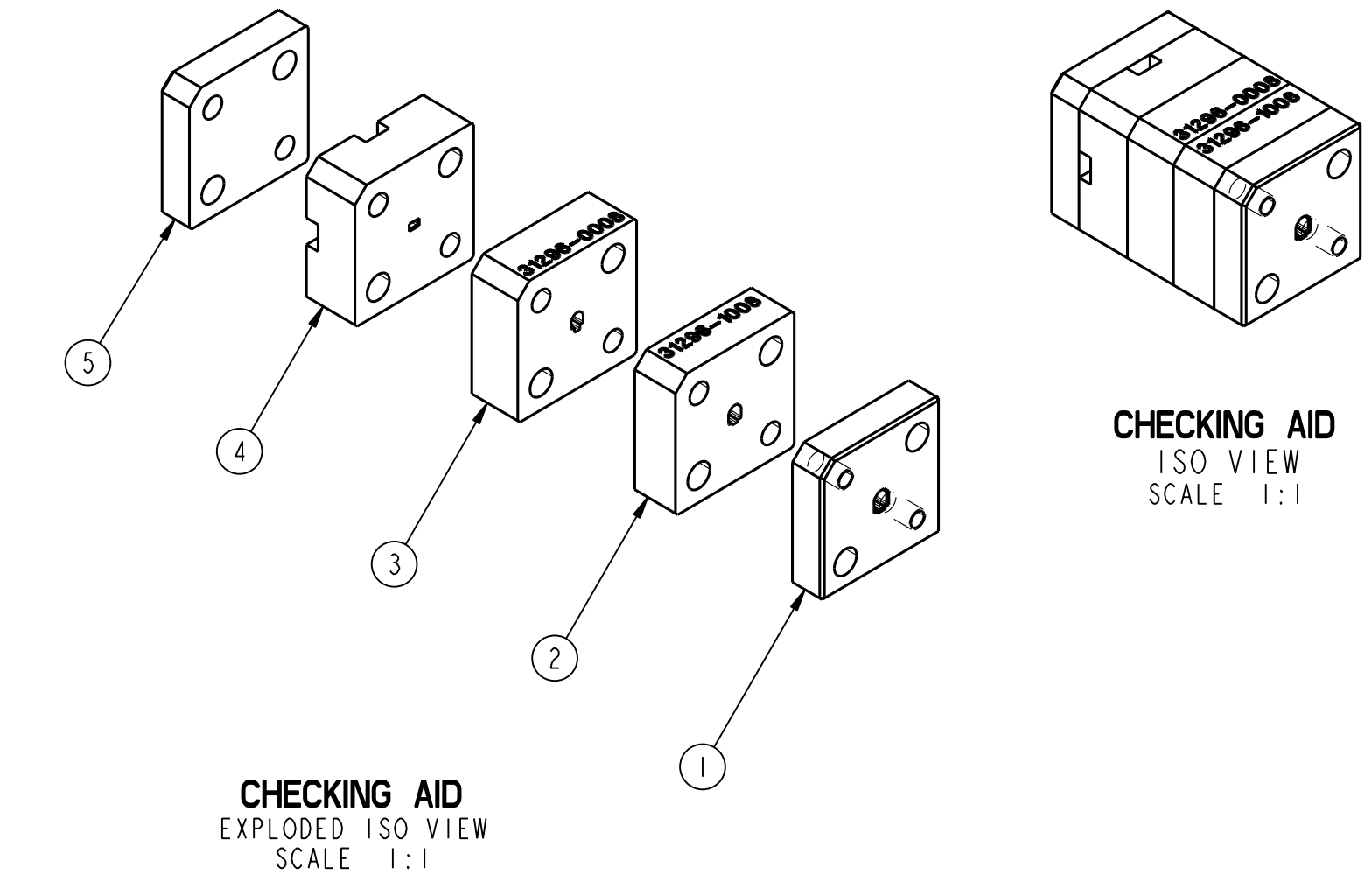
SCALE 2:1

EC NO: UAU2008-0063 DRWN: L.PULLIAM 2007/07/24 CH'K: A.DHIR 2007/07/25 APPR: B.MOSER 2007/07/31	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 5:1	DESIGN UNITS mm	THIRD ANGLE PROJECTION REVISE ON CAD ONLY	TITLE BLADE, SHORTING BAR TERMINAL MX150
		mm	INCH	DIMENSION STYLE			
		4 PLACES ± -- ± --					
		3 PLACES ± -- ± --					
		2 PLACES ± 0.10 ± --					
		1 PLACE ± 0.3 ± --					
		ANGULAR ± 3°					
				DRAWN BY D.GRIFFITHS	DATE 6/15/99		
				CHECKED BY	DATE		
				D.G./V.P.	7/28/99		
				APPROVED BY	DATE		
				V.PURUSHOTHAMAN	7/28/99		
				MATERIAL NO. SEE CHART		DOCUMENT NO. SD-31296-001	SHEET NO. 1 OF 2
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



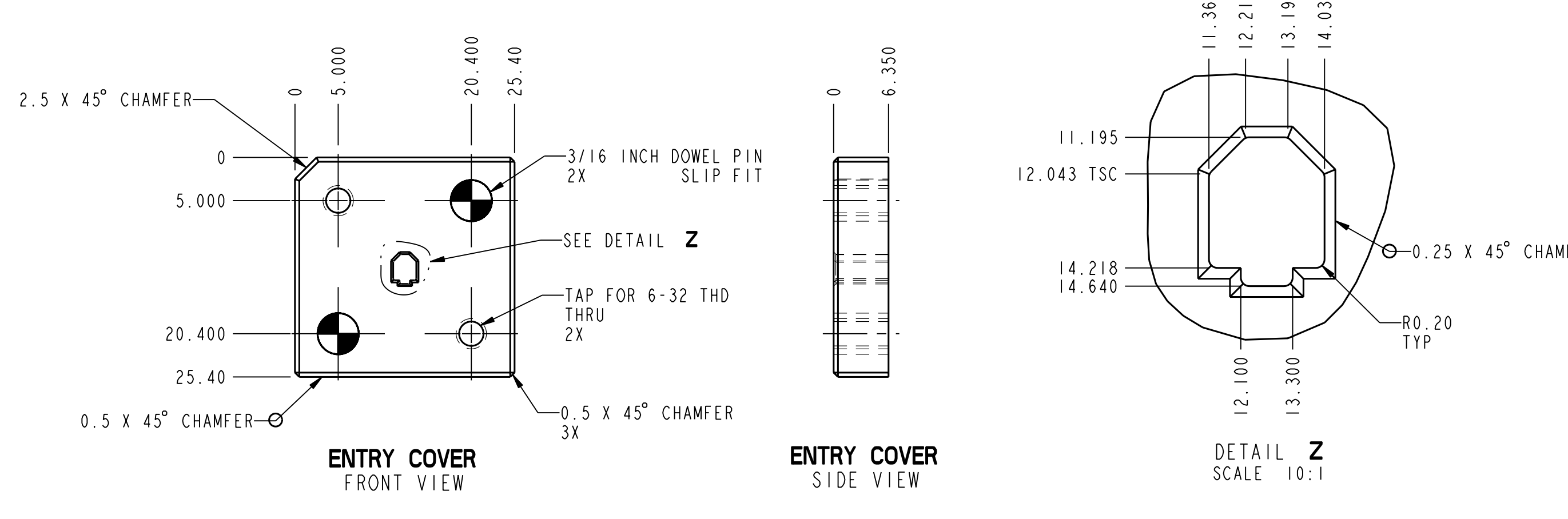
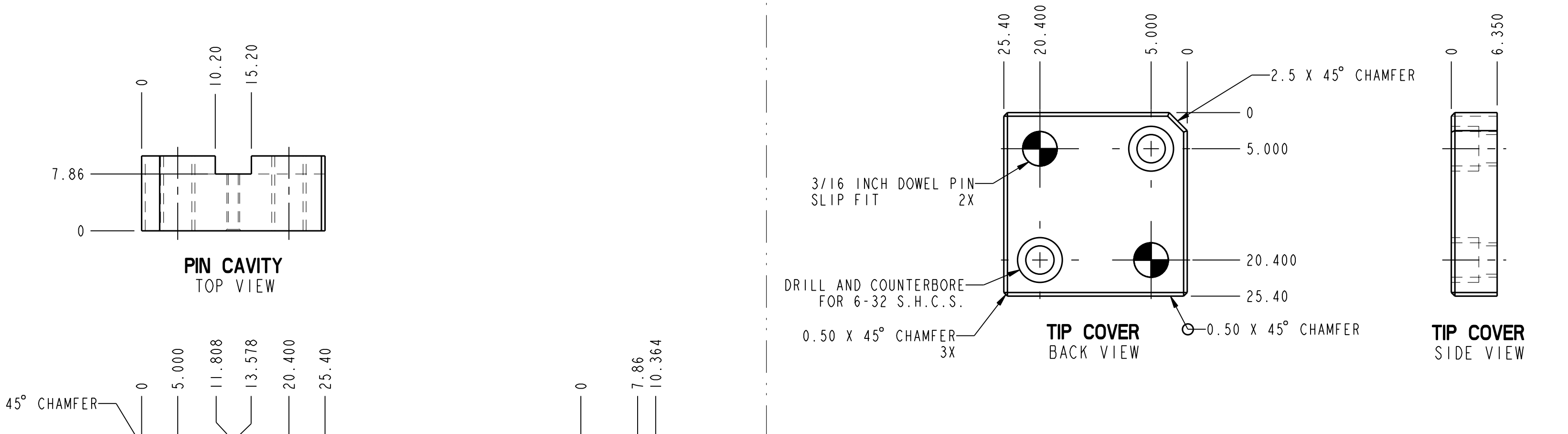
CHECKING AID		
ITEM NO.	DESCRIPTION	QUANTITY
1	ENTRY COVER	1
2	GRIP CAVITY	1
3	BODY CAVITY	1
4	PIN CAVITY	1
5	TIP COVER	1

HARDENED TOOL STEEL

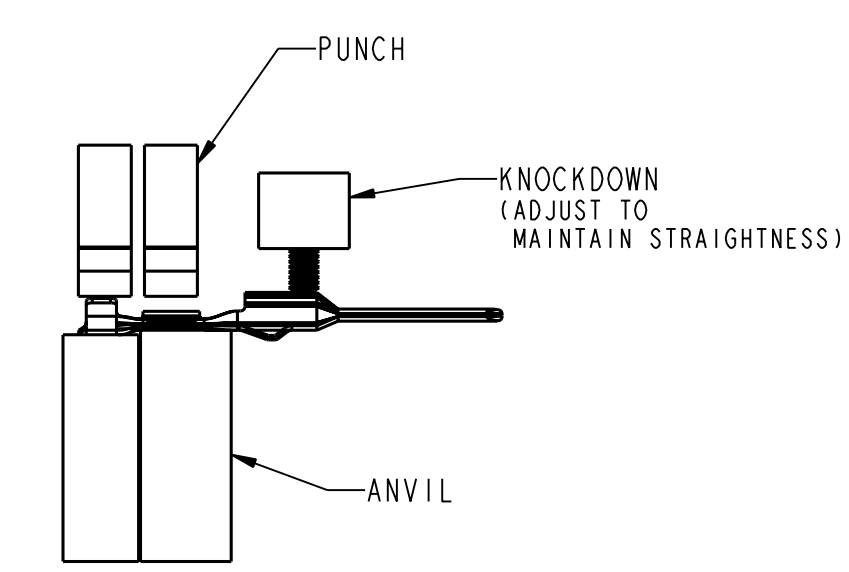


CHECKING AID
ISO VIEW
SCALE 1:1

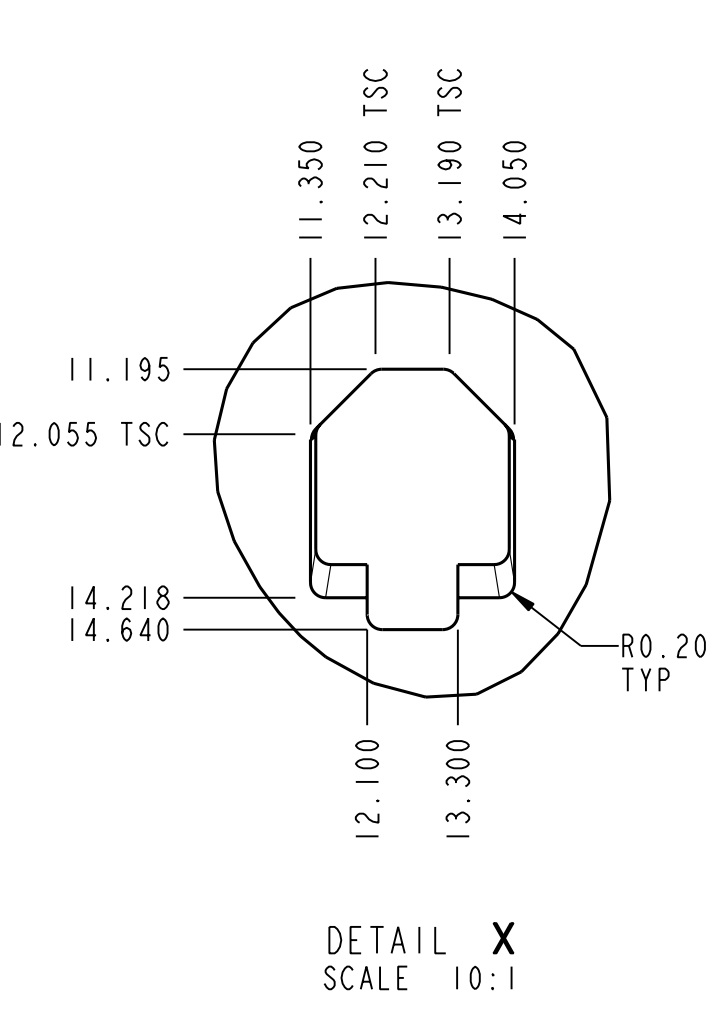
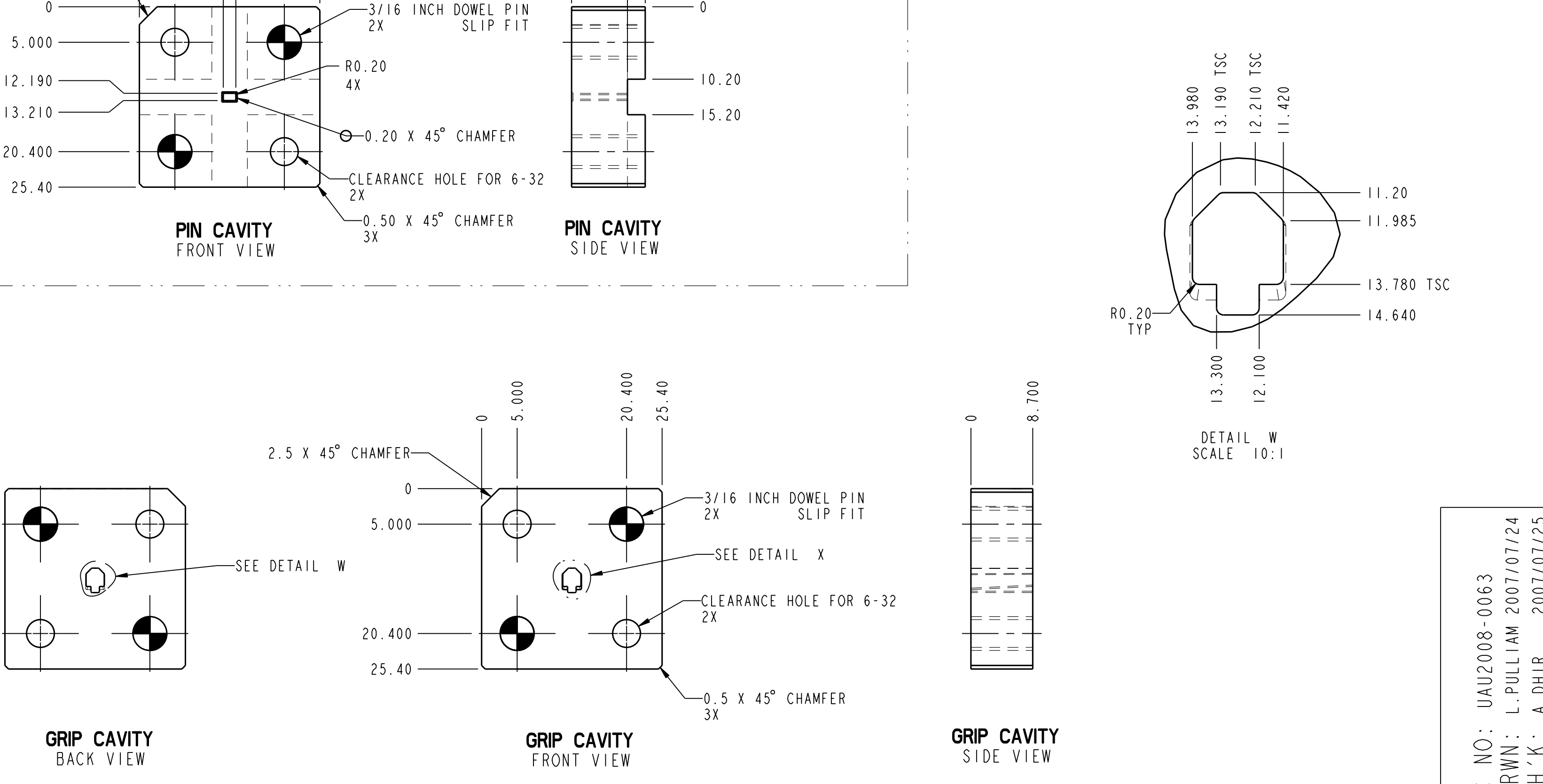
CHECKING AID
EXPLODED ISO VIEW
SCALE 1:1



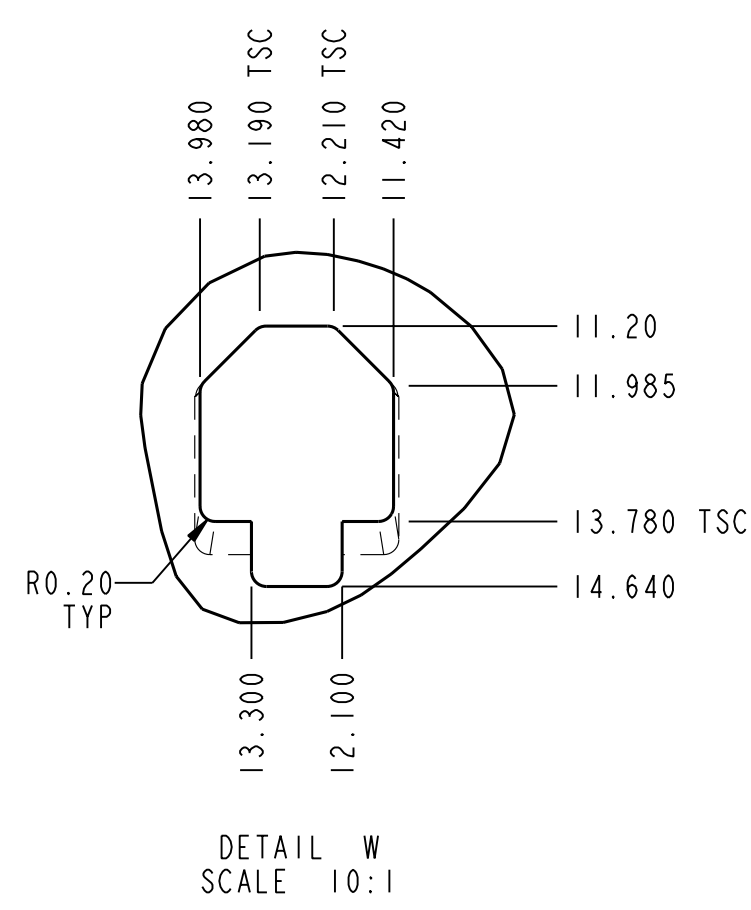
- CRIMP REQUIREMENTS:
1. CRIMP STRAIGHTNESS MUST MEET THE REQUIREMENTS AS DESCRIBED ON SHEET 1
 2. THE CRIMPED TERMINAL MUST FIT FREELY INTO THE CHECKING AID AS SHOWN ON THIS PAGE
 3. FOR OTHER MECHANICAL REQUIREMENTS ON CRIMPED TERMINALS REFER TO SAE/JUSCAR-21 (5-13-02) SECTIONS: 4.2 (VISUAL INSPECTION), 4.3 (CROSS SECTION ANALYSIS) AND 4.4 (CONDUCTOR CRIMP PULLOUT FORCE)



CRIMP TOOLING



DETAIL X
SCALE 10:1



DETAIL W
SCALE 10:1

EC NO: UAU2008-0063 DRWN: L.PULLIAM 2007/07/24 CHK: A.DHIR 2007/07/25 APPR: B.MOSER 2007/07/31	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2:1	DESIGN UNITS mm	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
		mm	INCH	DIMENSION STYLE mm		TITLE BLADE, SHORTING BAR TERMINAL MX150			
G4	REV	4 PLACES	± --	± --	DRAWN BY D.GRIFFITHS	DATE 6/15/99	MOLEX INCORPORATED		
		3 PLACES	± 0.005	± --	CHECKED BY	DATE			
		2 PLACES	± 0.03	± --	APPROVED BY V.PURUSHOTHAMAN	DATE 7/28/99	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-31296-001	SHEET NO. 2 OF 2
		1 PLACE	± 0.3	± --	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
		ANGULAR ± 3°							