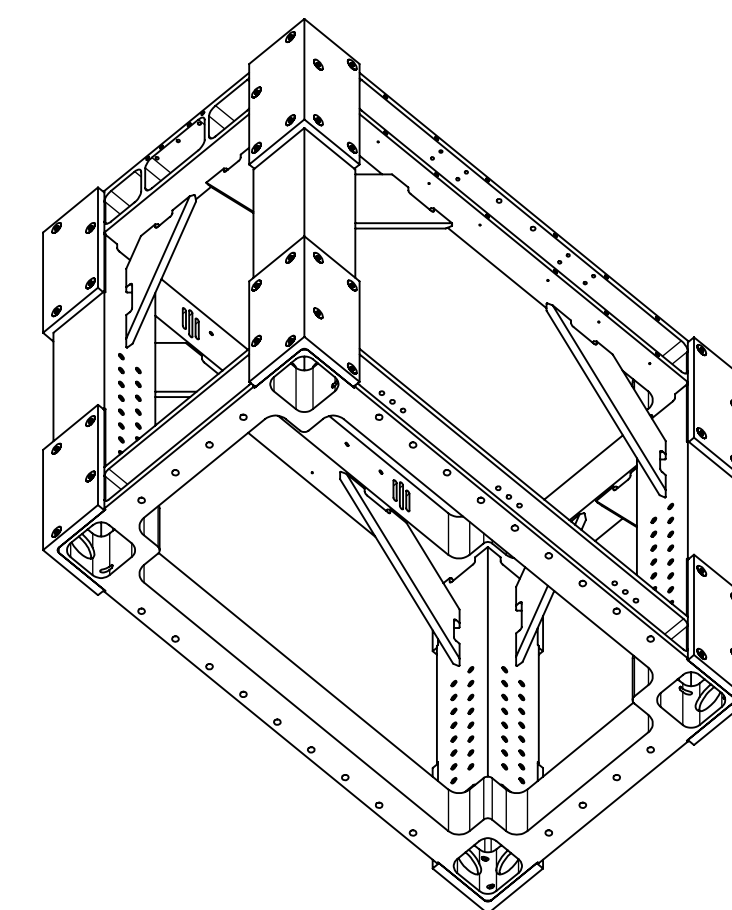
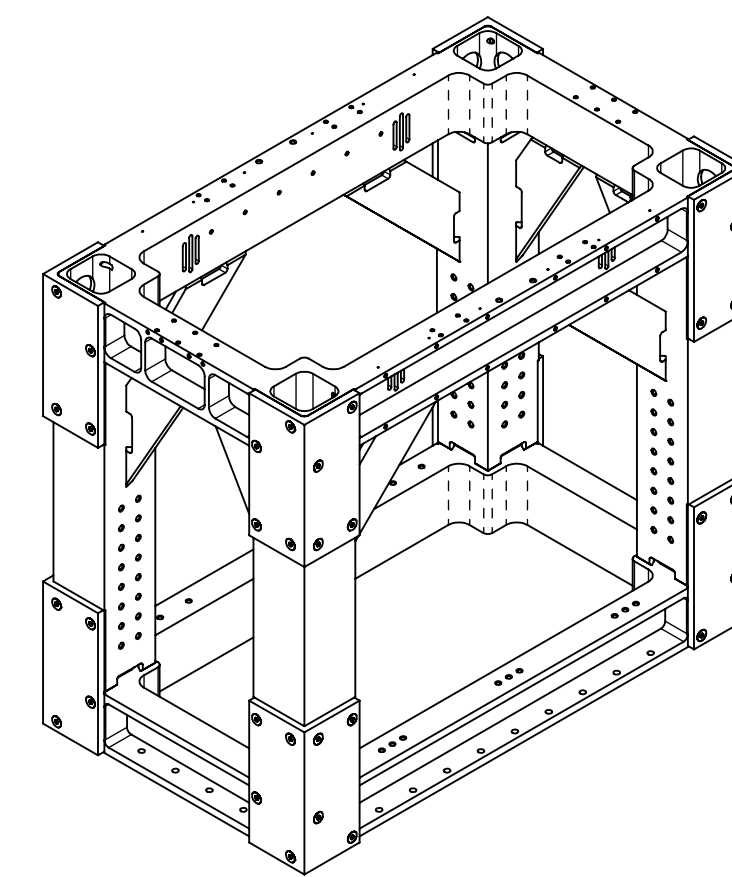
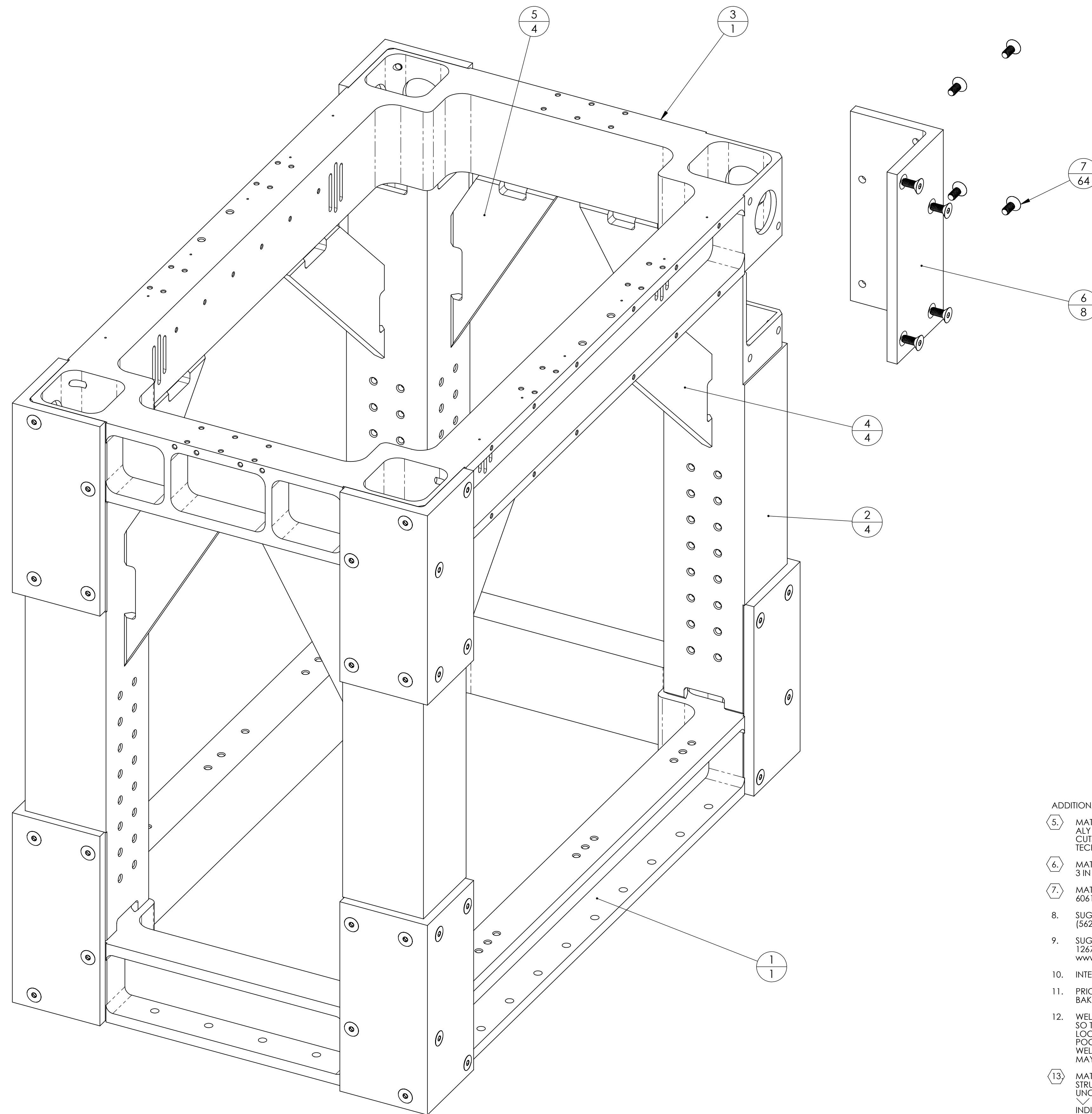


REV.	DATE	DCN #	DRAWING TREE #
A	28 MAR 2008	E080113	
B	10 APR 2008	E080157	



ADDITIONAL NOTES:

5. MATERIAL FOR BASE AND TOP, D060296-1 AND -2, SHALL BE AL ALY 6061-T6 PLATE. OUTSIDE PROFILE AND LARGE INTERIOR CUTS SHALL BE PERFORMED USING WATERJET MACHINING TECHNOLOGY.
6. MATERIAL FOR LEGS, D060296-2, SHALL BE AL ALY 6061-T6 3 IN X 3 IN EXTRUSION, .25 IN WALL THICKNESS.
7. MATERIAL FOR GUSSETS, D060296-4 AND -5, SHALL BE AL ALY 6061-T6 PLATE, .375 IN THICK.
8. SUGGESTED SOURCE OF SUPPLY FOR ITEM 7: McMASTER-CARR, (562) 463-4277, www.mcmaster.com.
9. SUGGESTED SOURCE OF SUPPLY FOR ITEM 8: AIR HARDWARE, 12675 ENCINAS AVE, SYLMAR CA 91342, (877) 247-4393, www.airhardware.com.
10. INTERPRET DRAWING PER ANSI Y14.5 1994.
11. PRIOR TO WELDING, ALL PARTS SHALL BE CLEANED, VACUUM BAKED AND SEALED IN BAGS FOR DELIVERY TO THE WELDER.
12. WELDING PROCEDURES AND TECHNIQUES SHALL BE CHOSEN SO THAT FULL PENETRATION WELDS ARE ACHIEVED IN ALL LOCATIONS, WITH NO INCLUSIONS OR SIGNIFICANT GAS POCKETS. A REASONABLE ATTEMPT TO ACHIEVE CLASS A WELDS PER MIL-STD-2219 SHALL BE MADE. NO DYE PENETRANTS MAY BE USED DURING ANY STAGE OF THIS PROCESS.
13. MATCH DRILL CORNER BRACE (D060296-6) AND WELDED STRUCTURE. DRILL AND TAP WELDED STRUCTURE FOR 1/4-20 UNC-2B +.005 OVERSIZE BY $\nabla .50$, .43 MIN FULL THD DEPTH, $\nabla \phi .265 \times 82^\circ$. DRILL AND COUNTERSINK CORNER BRACE AS INDICATED.
14. INSTALL ITEM 8, #8-32 HELICOILS, IN INDICATED LOCATIONS AFTER CLEANING AND BAKING.
15. AFTER WELDING, MACHINE INDICATED SURFACES TO ACHIEVE NOTED DIMENSIONS.
16. ESTIMATED WEIGHT FROM CAD MODEL: 59.8 lbs. [27.1 kg]

ITEM NO.	PART NUMBER	DESCRIPTION	MATL	QTY
8	1185-2EN328	#8-32 X .328" LONG HELICOIL	NITRONIC 60	AR
7	90585A358	1/4-20 X 5/8" LONG COUNTERSUNK HEAD CAP SCREW	316 SS	64
6	D060296-6	CORNER BRACE, OMC	AL ALY 6061-T6	8
5	D060296-5	GUSSET, 7" X 4", OMC WELDMENT	7	4
4	D060296-4	GUSSET, 7" X 7", OMC WELDMENT	7	4
3	D060296-3	TOP, OMC STRUCTURE WELDMENT	5	1
2	D060296-2	LEG, OMC STRUCTURE WELDMENT	6	4
1	D060296-1	BASE, OMC STRUCTURE WELDMENT	5	1

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. DO NOT SCALE FROM DRAWING.

2. REMOVE ALL SHARP EDGES, R.02 MAX.

3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE.

4. SCRIBE, ENGRAVE OR MECHANICALLY STAMP DRAWING DIMENSIONS OR DIMENSION PART NUMBER, REV. AND DASH NO. ON NOTED SURFACE OF PART FOLLOWED BY THE PART LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS SHALL BE 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE 17 HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLES:

D060296-2-A
379/001

DIMENSIONS ARE IN INCHES

TOLERANCES:
 .XX ± 0.1
 .XX ± 0.01
 .XXX ± 0.005
 ANGULAR ± 0.5°

MATERIAL: AL ALY 6061-T6

FINISH: N/A

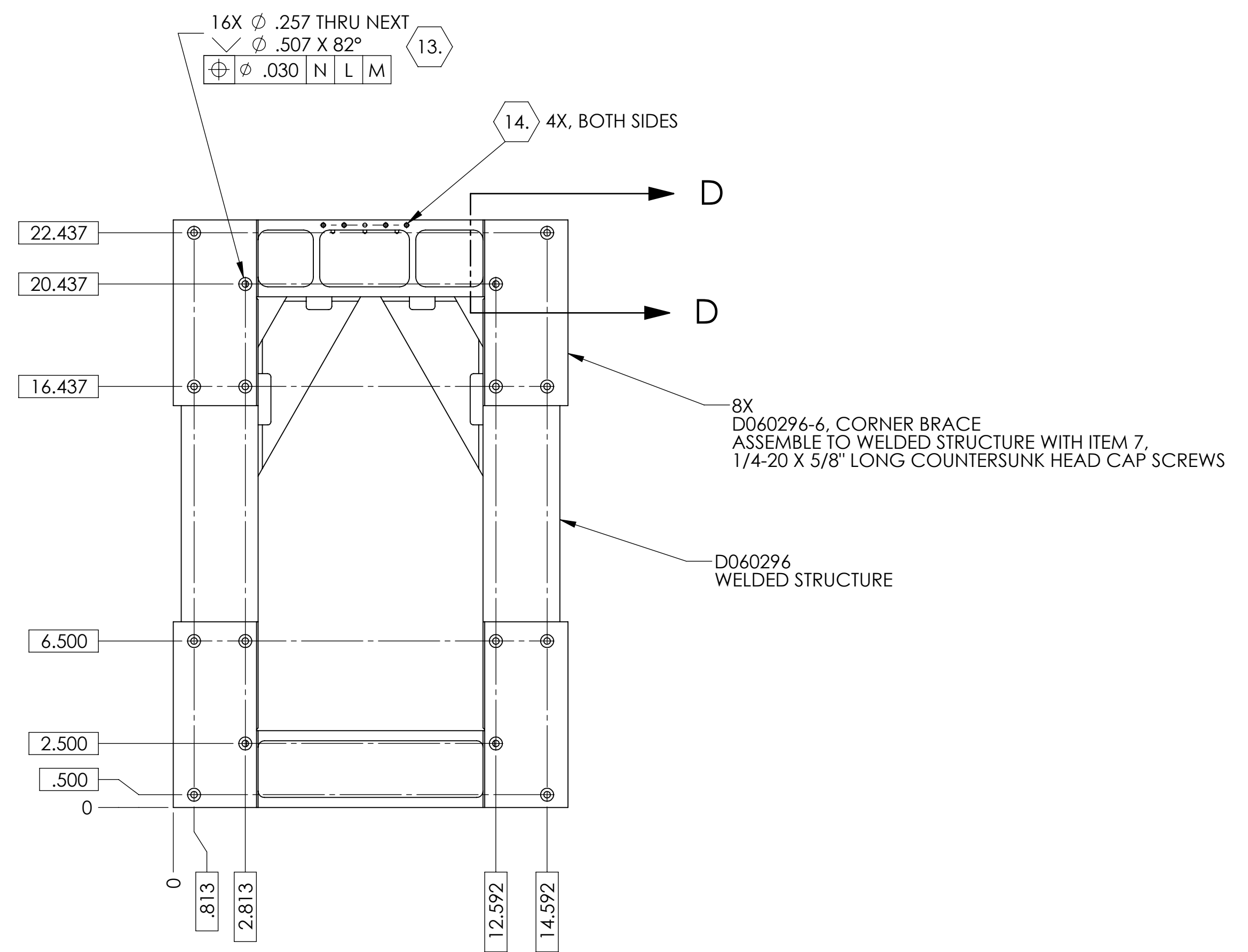
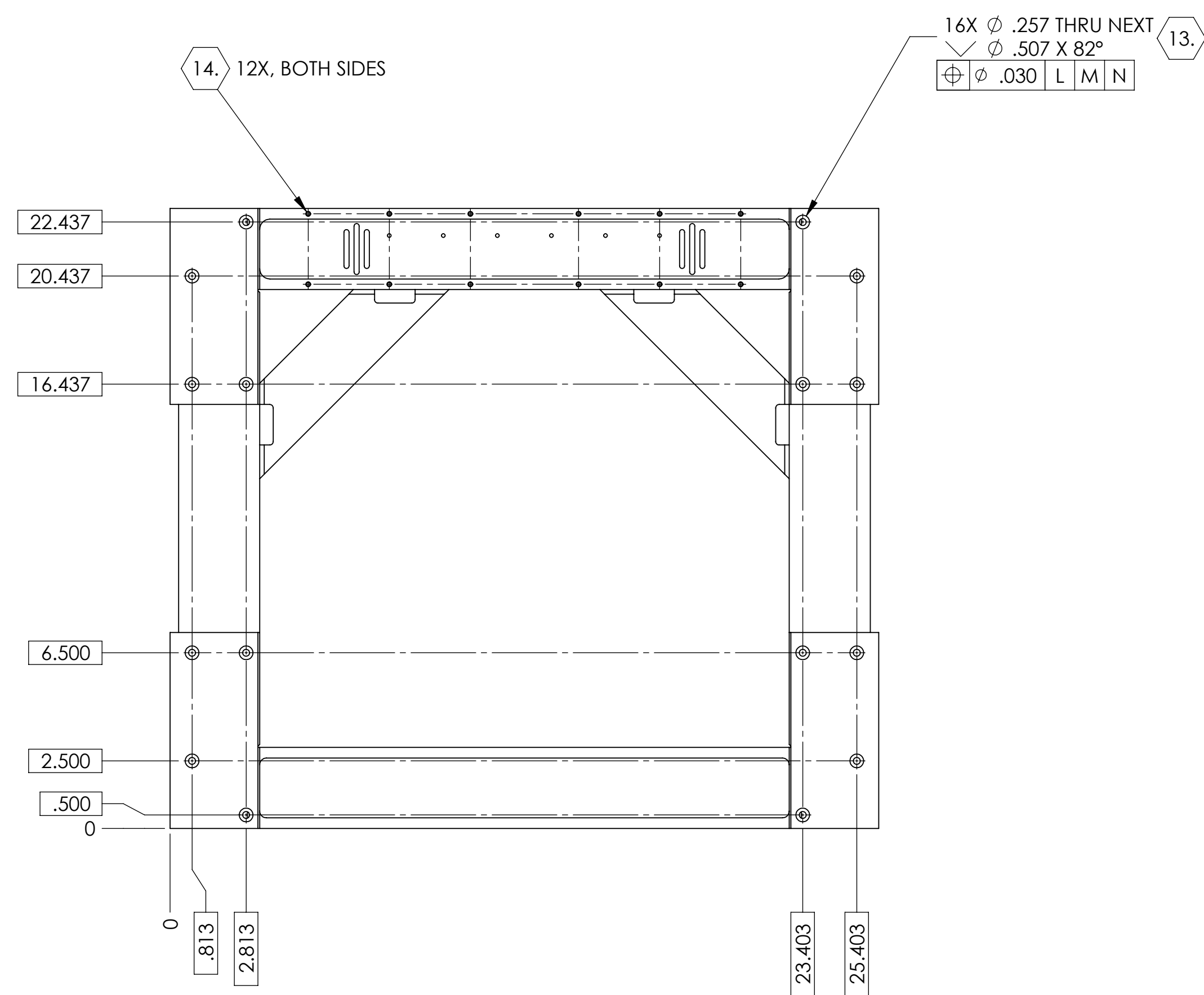
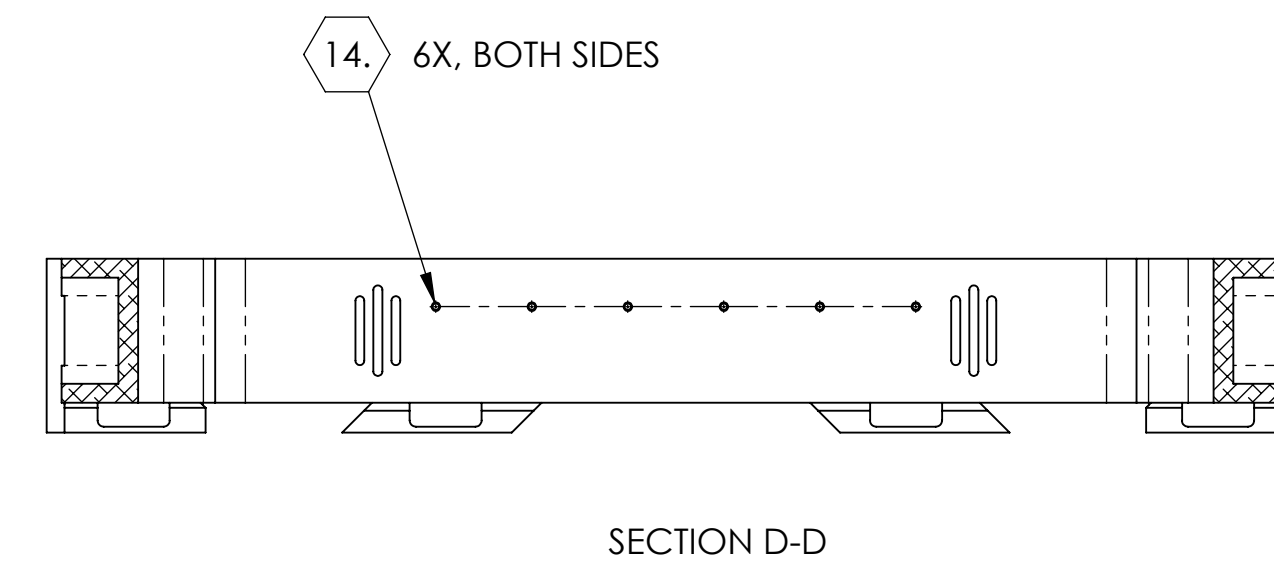
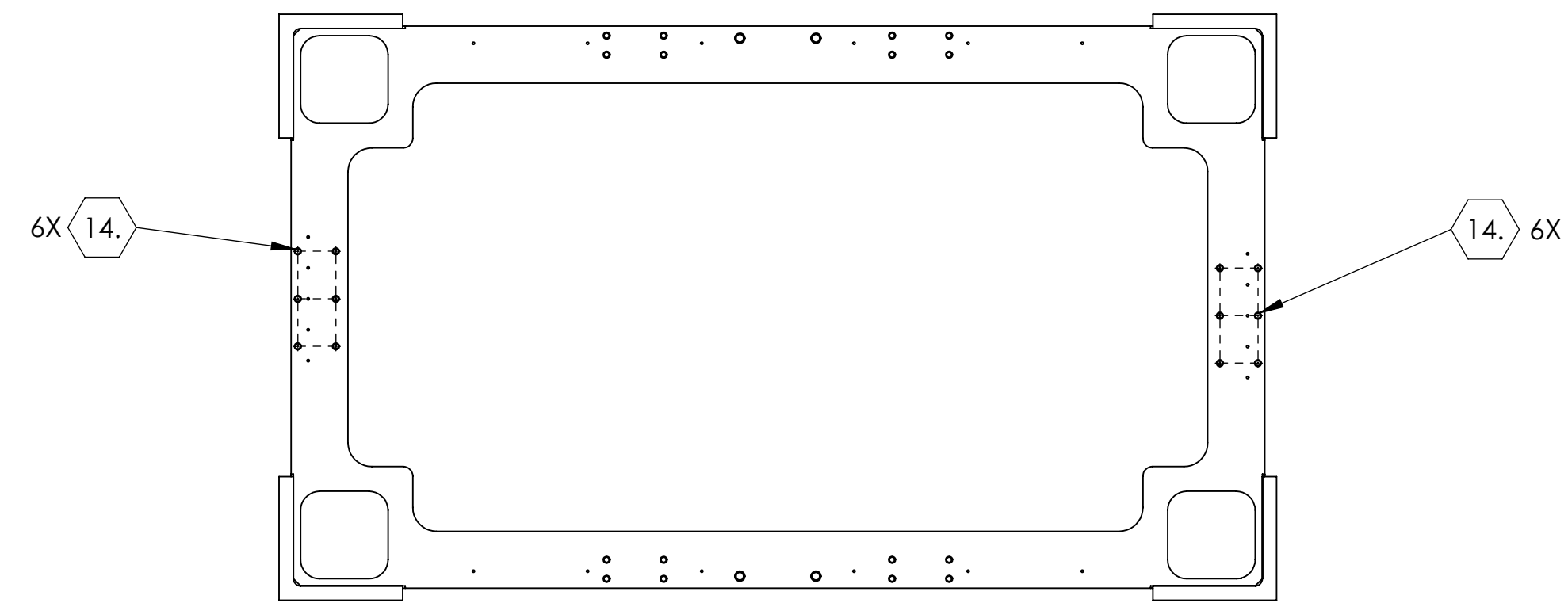
NAME: DATE: PART NAME: STRUCTURE WELDMENT, OUTPUT MODE CLEANER

DRAWN: C. RICHES 17 DEC 2006 SIZ: DWG. NO. D060296

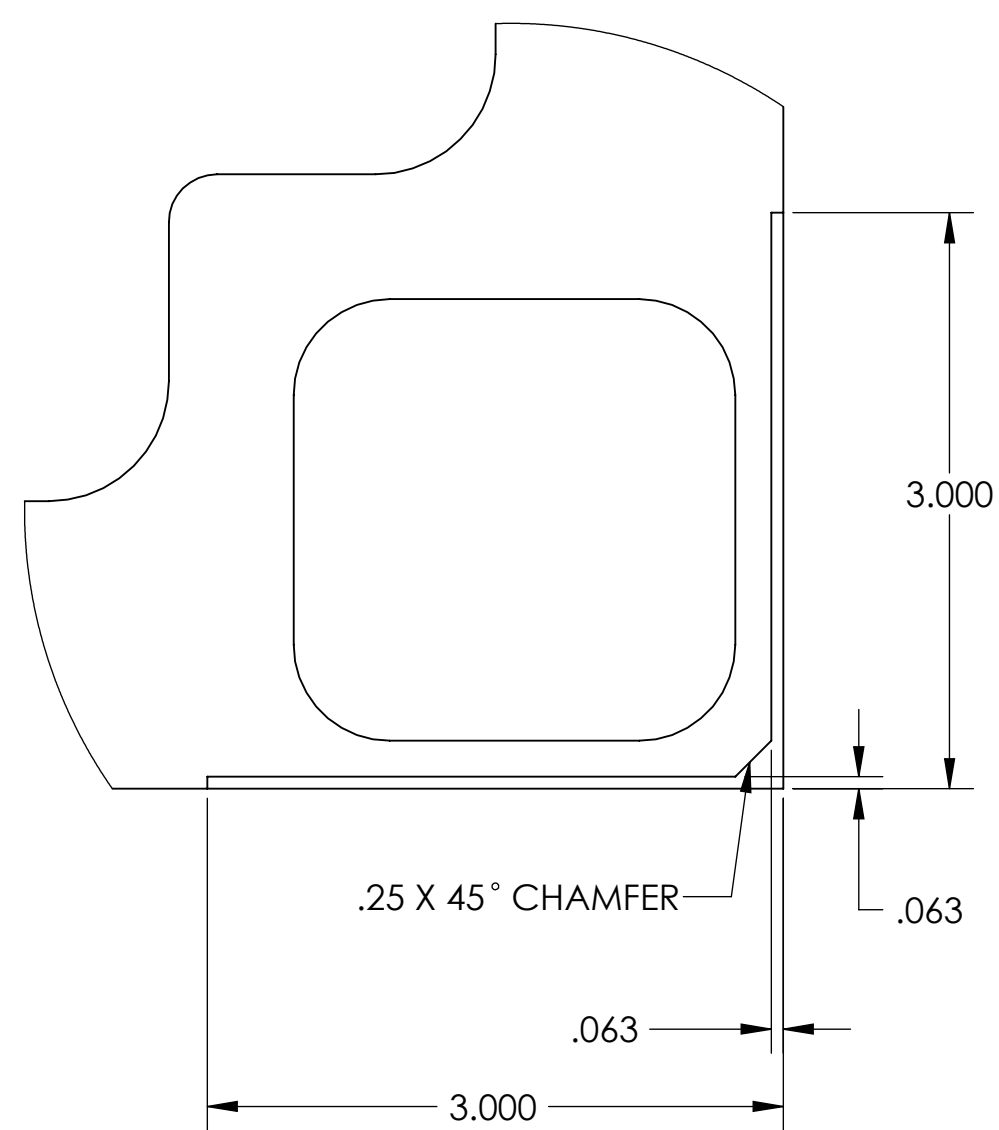
CHECKED: J. HARRIS

ENGR: C. HARRIS

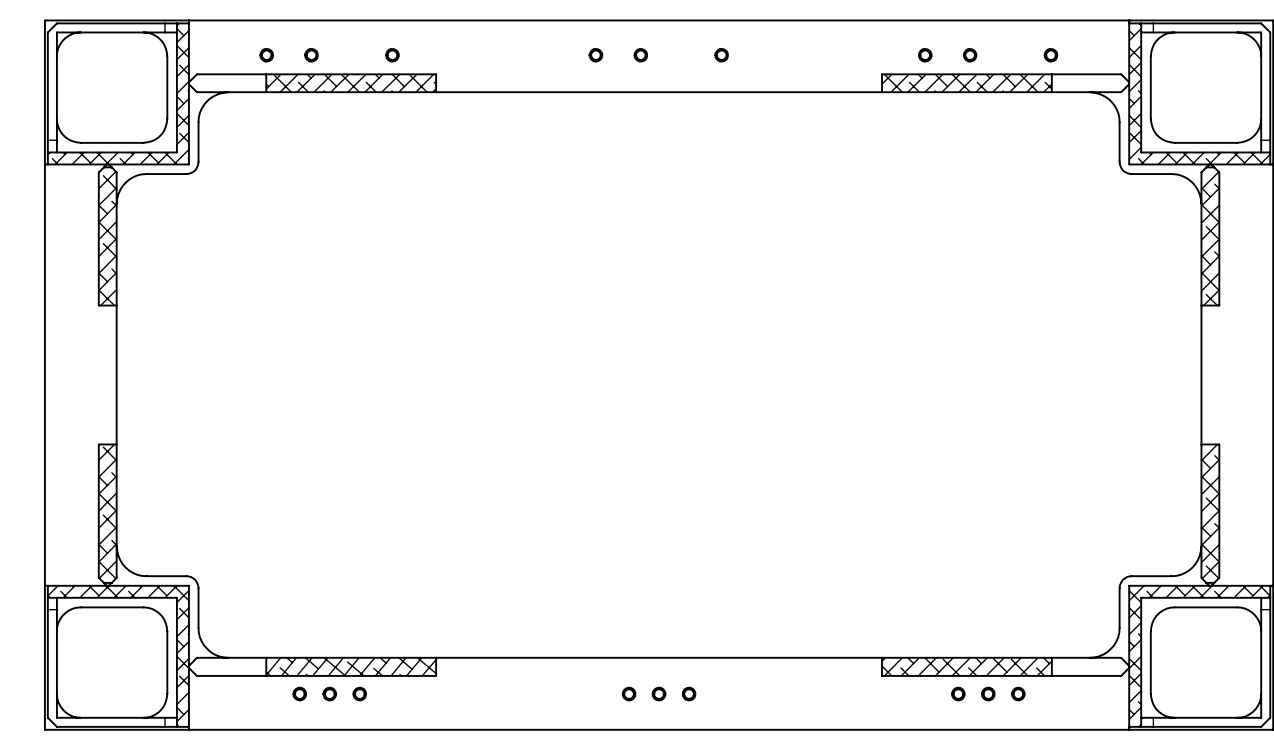
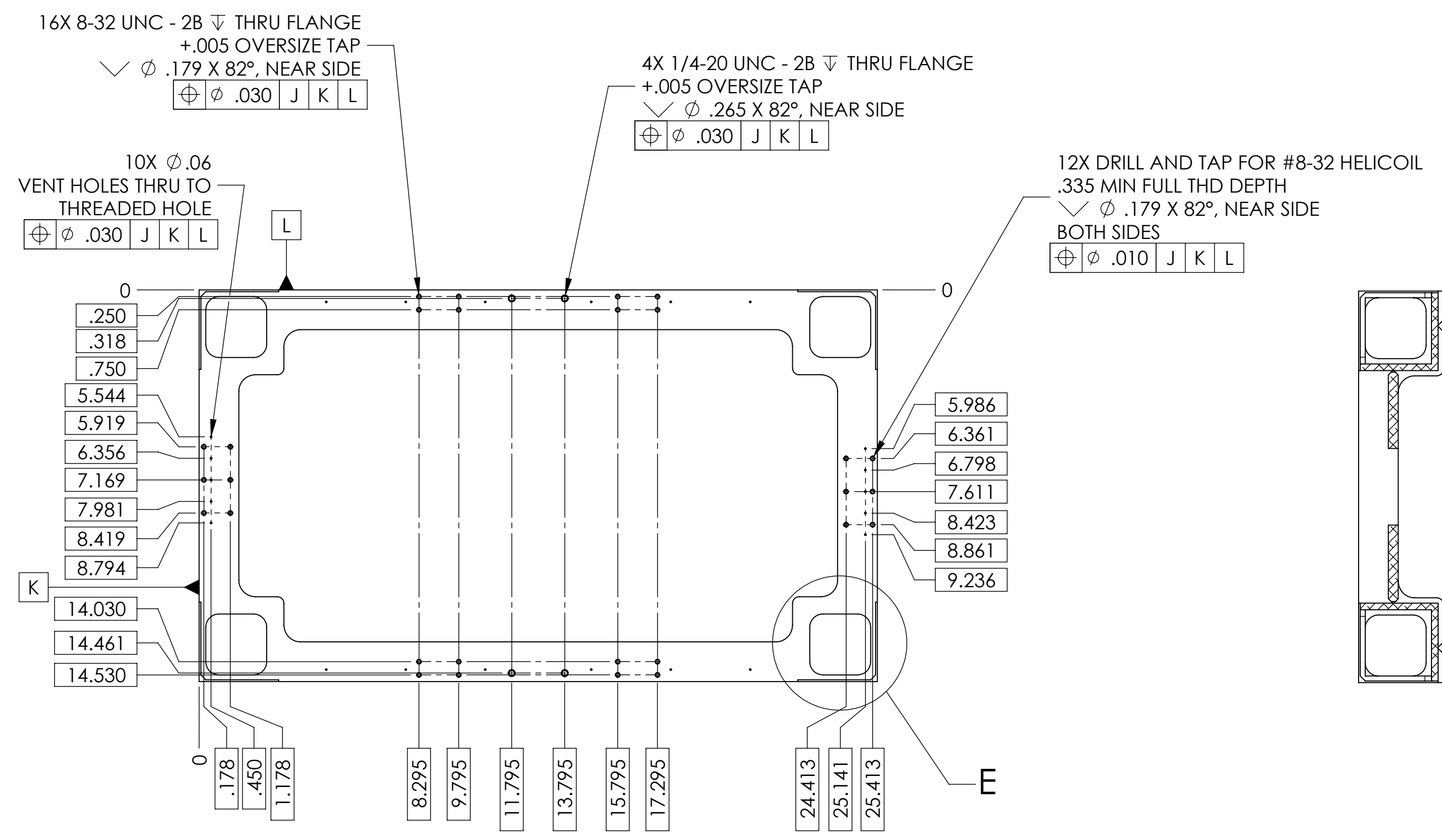
SCALE: 1:2 PROJECTION: 1st ANGLE SHEET 1 OF 8



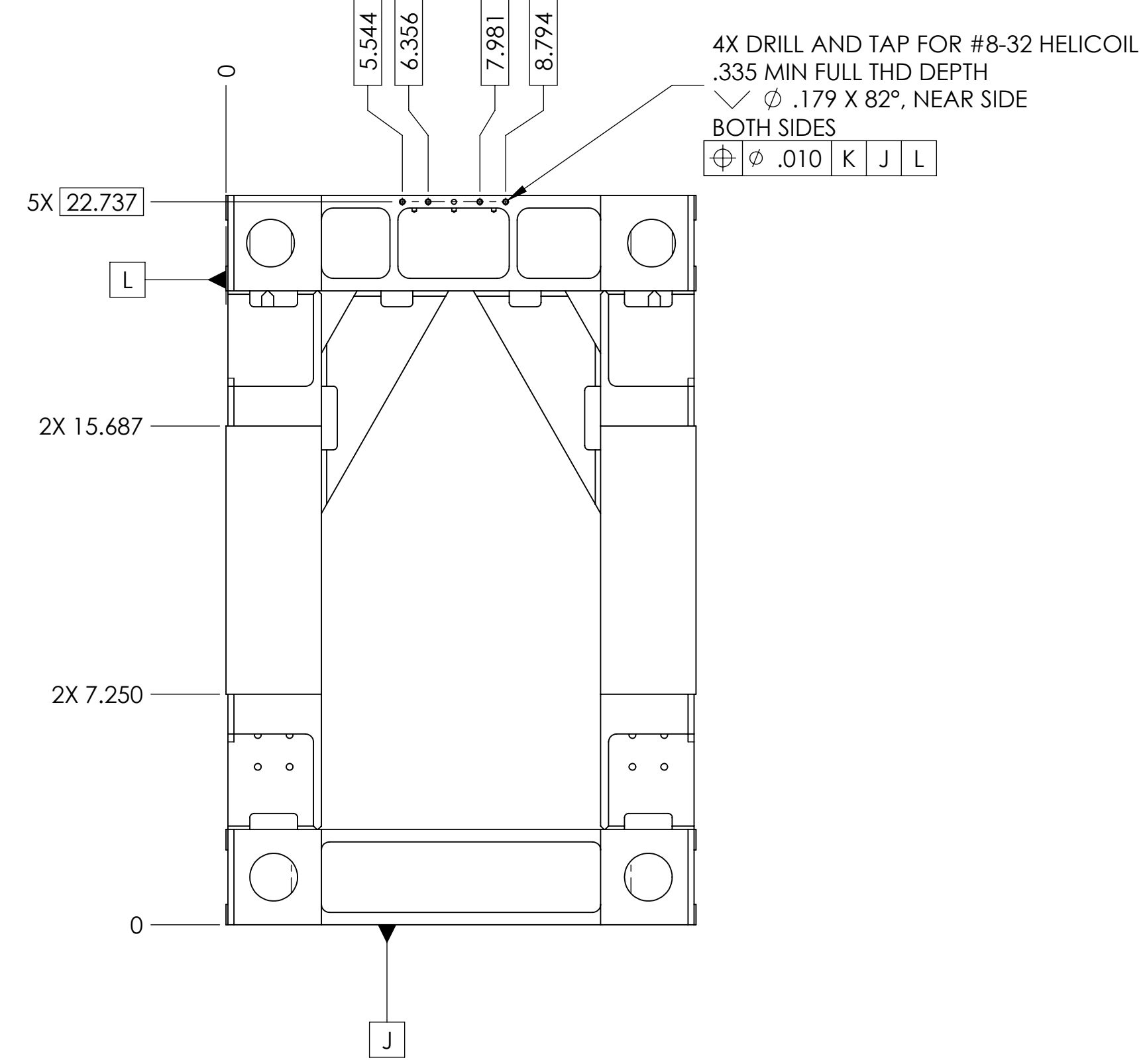
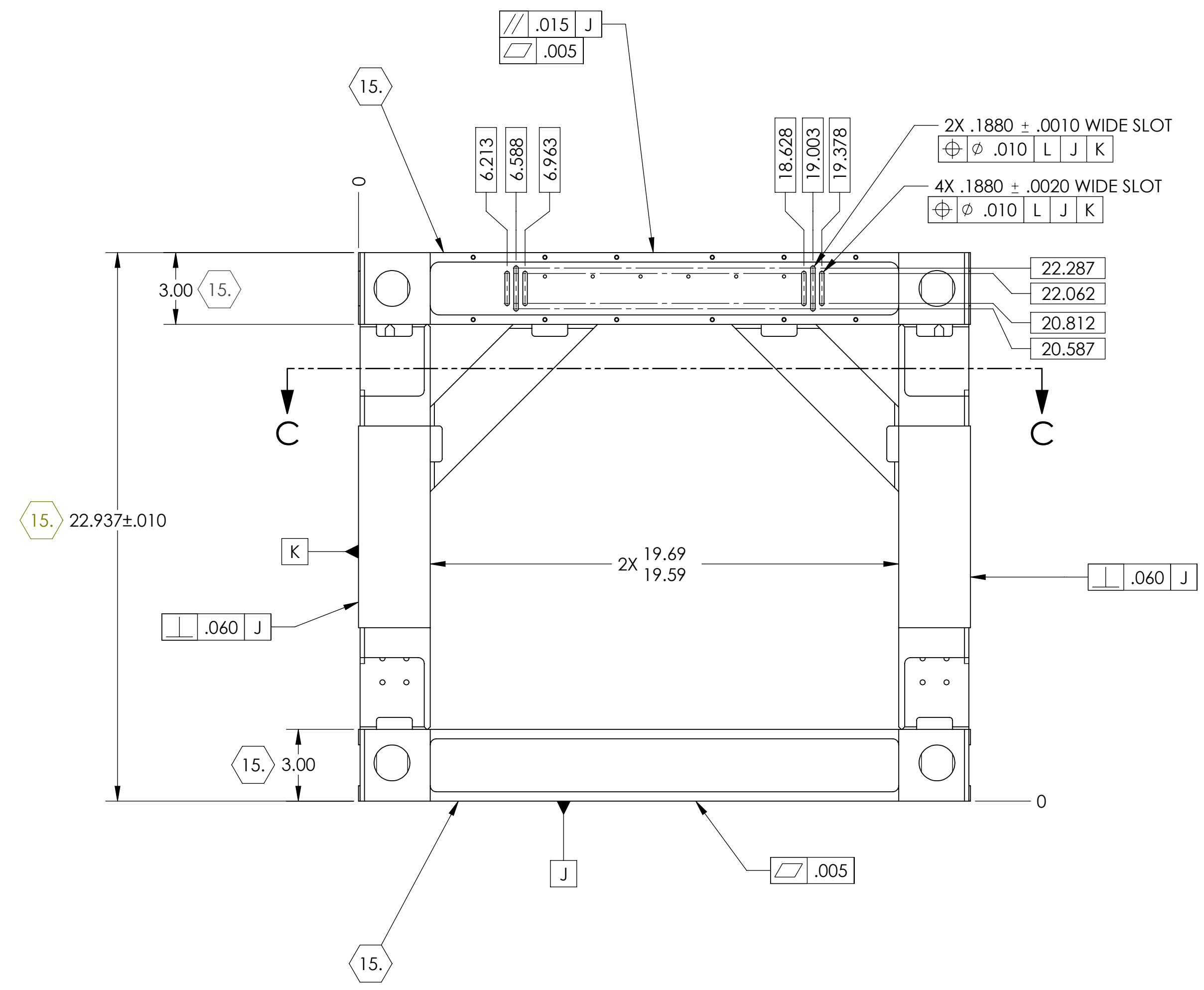
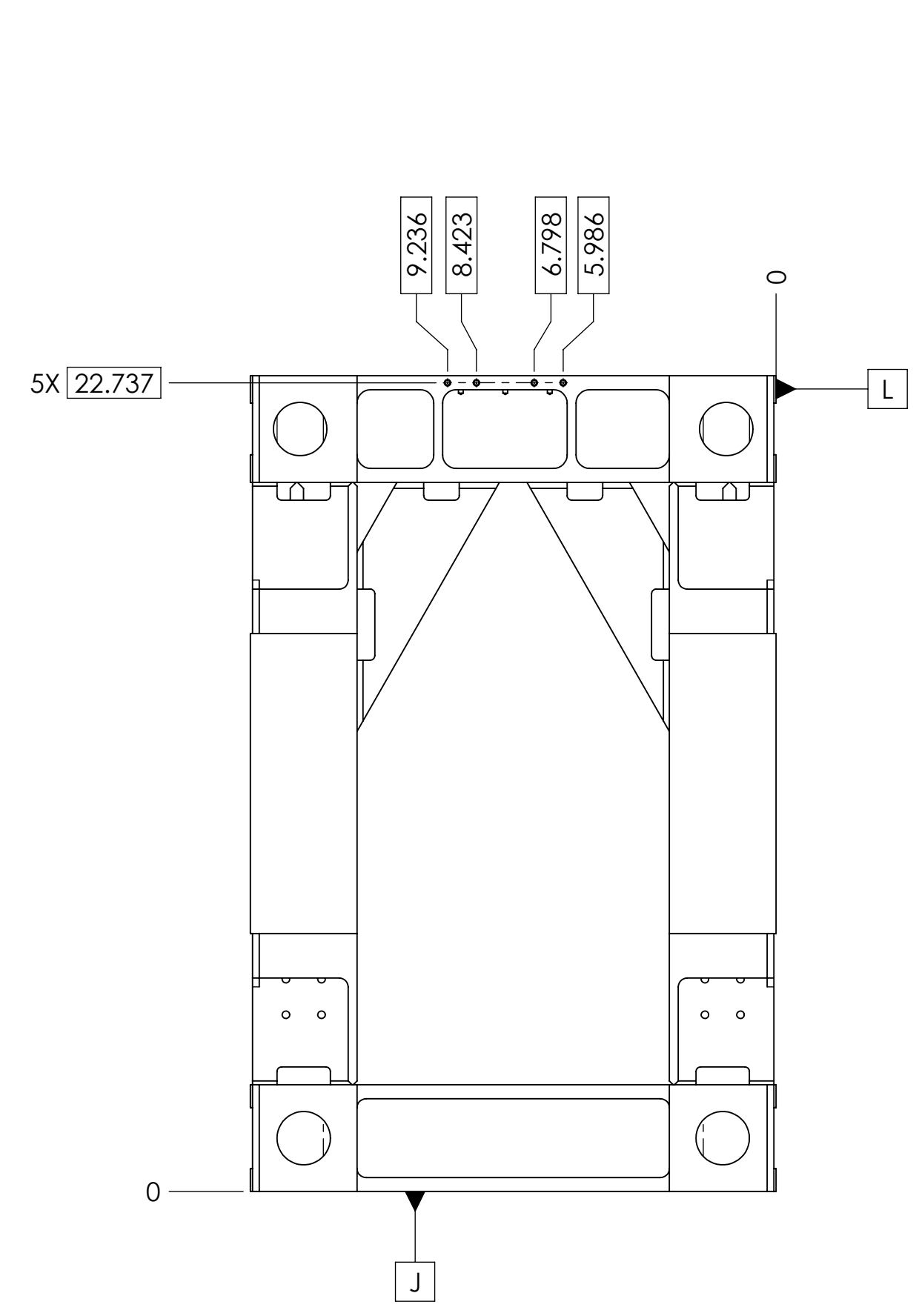
FINAL MACHINING AND ASSEMBLY



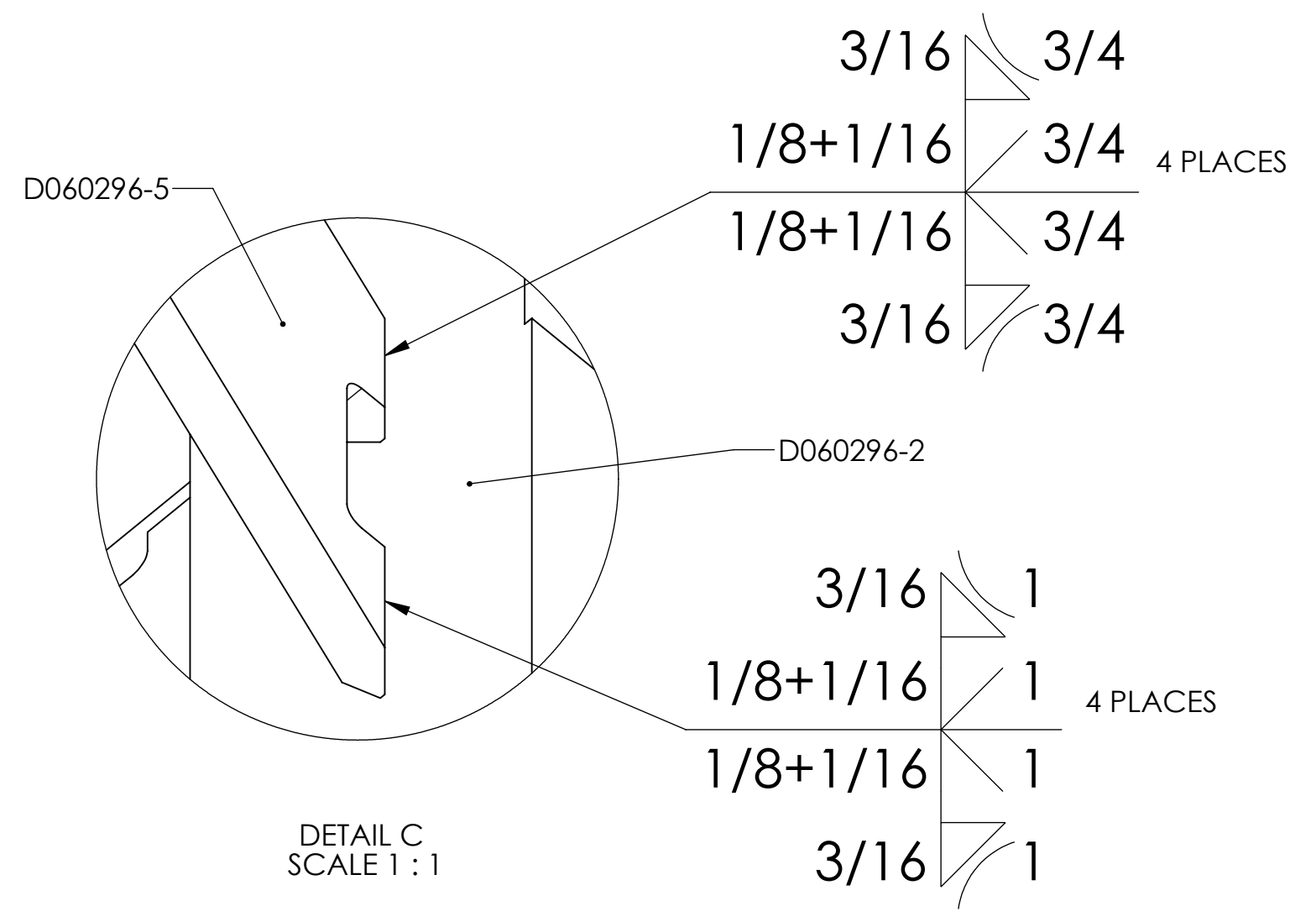
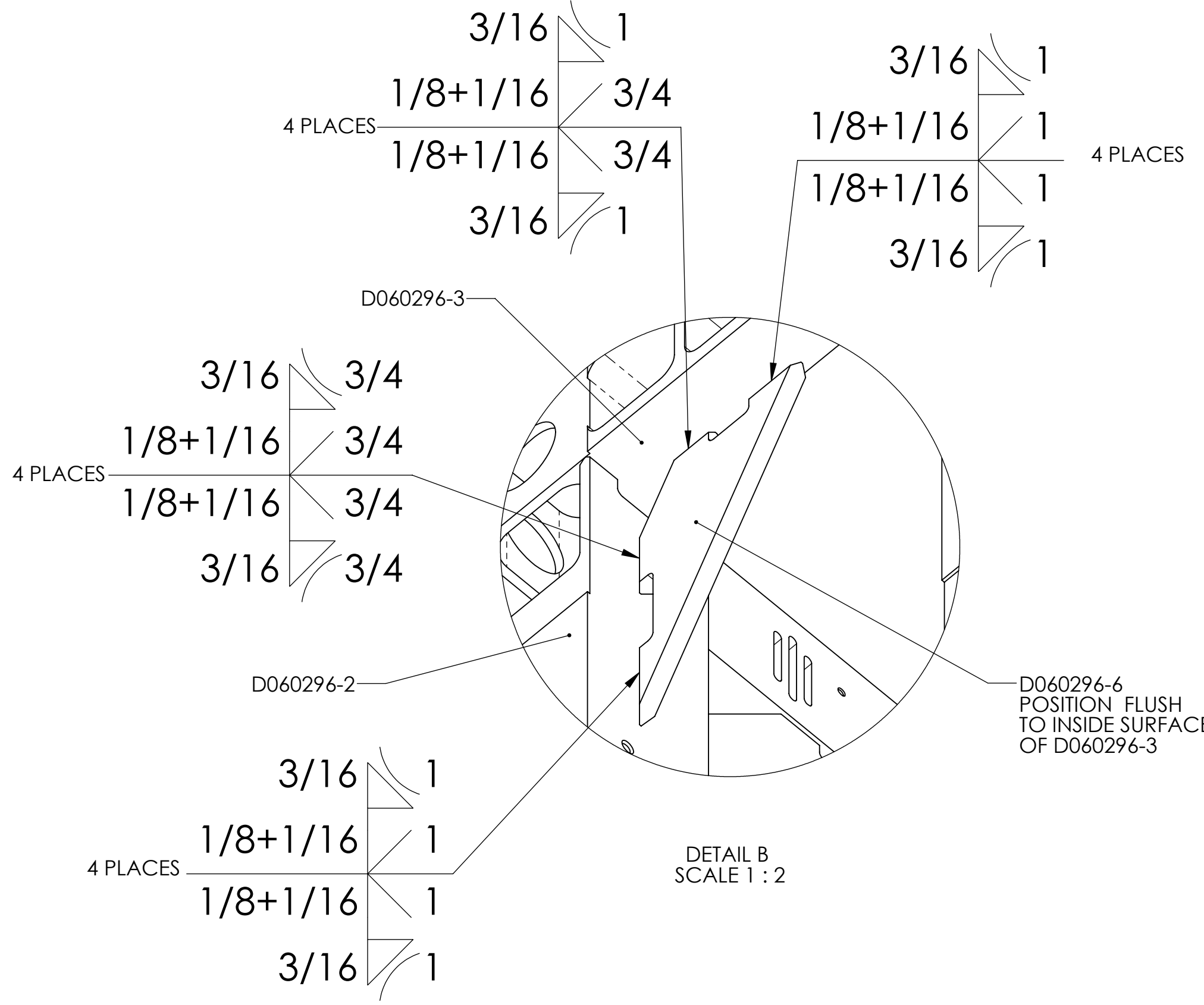
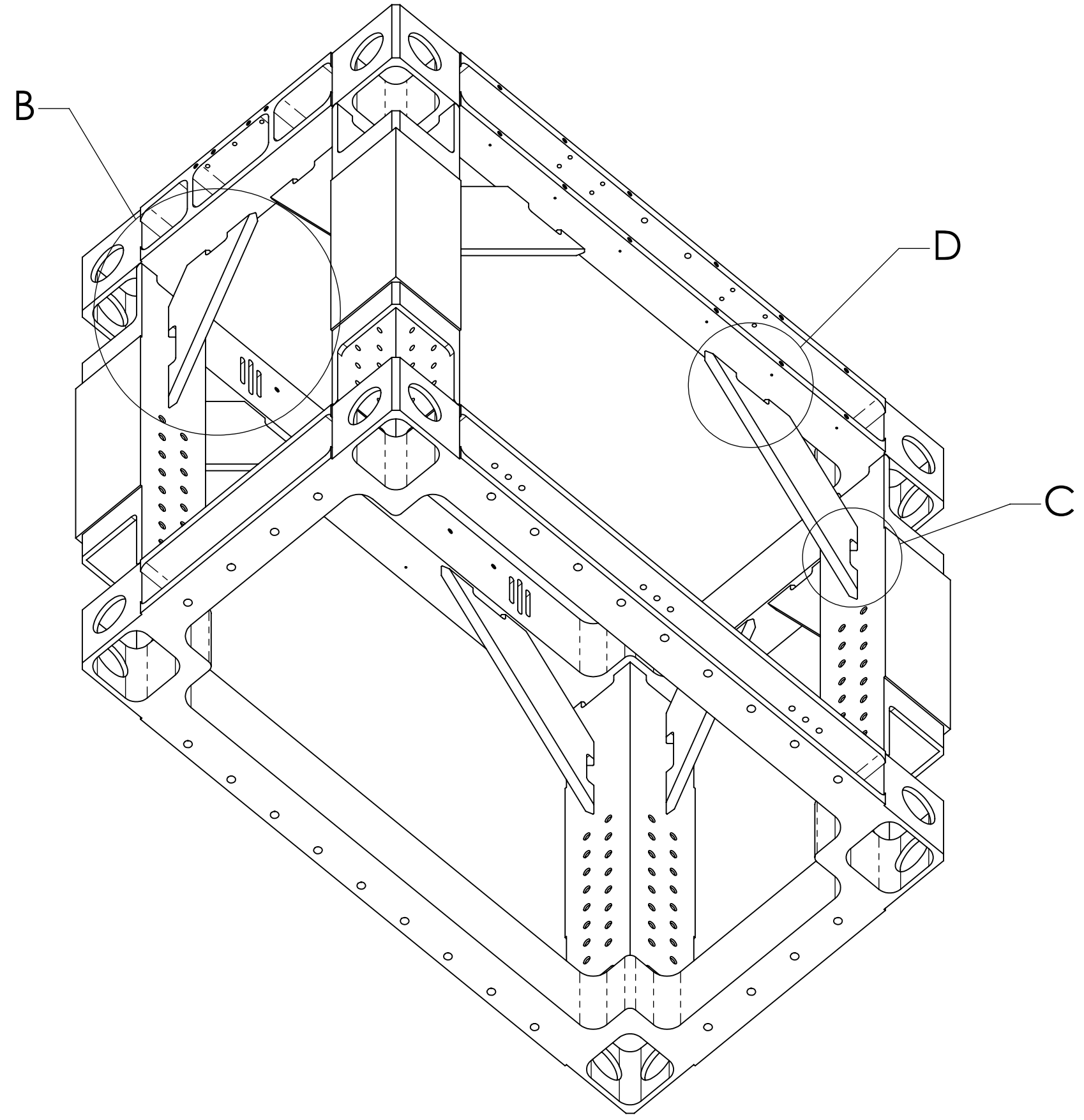
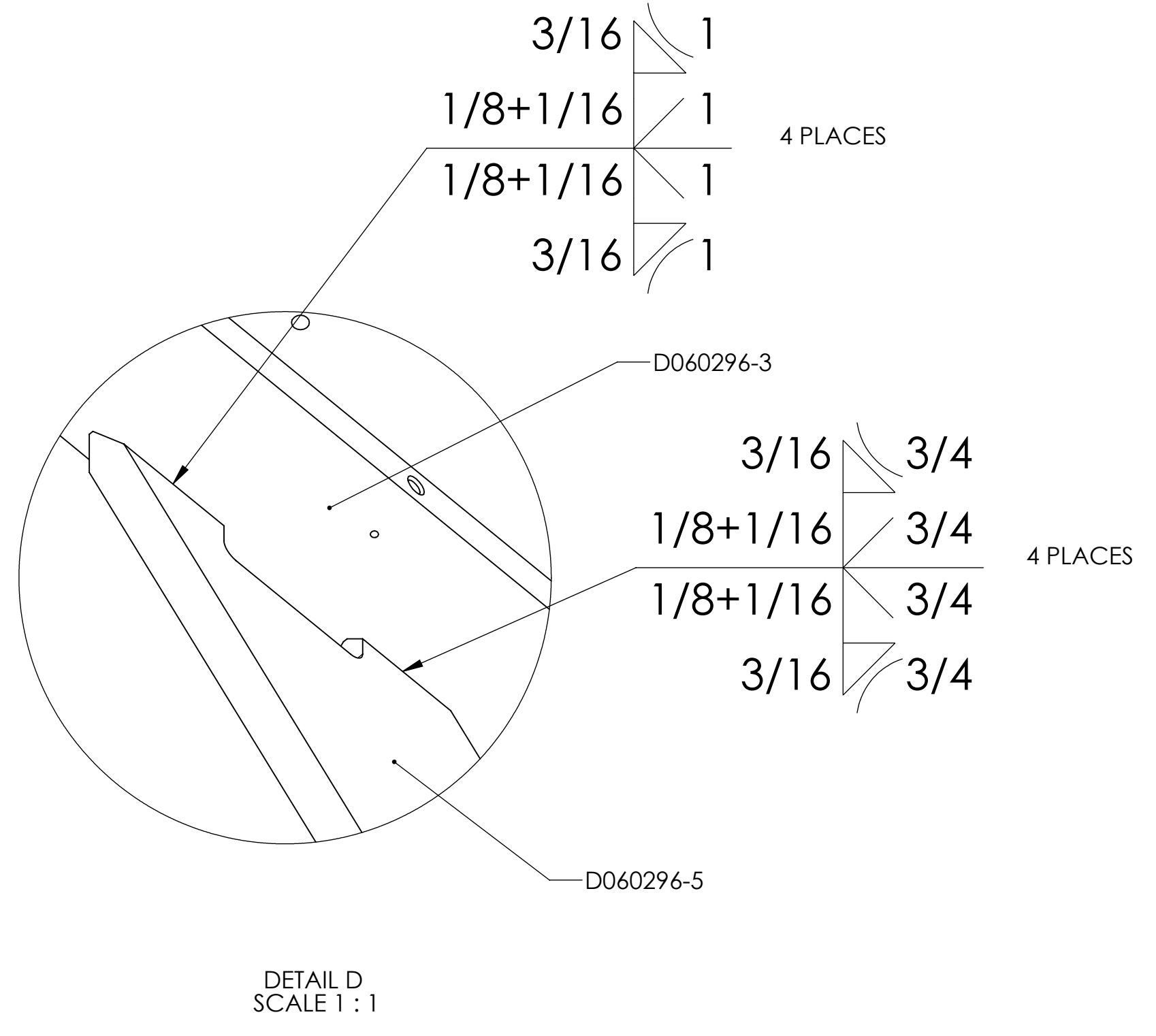
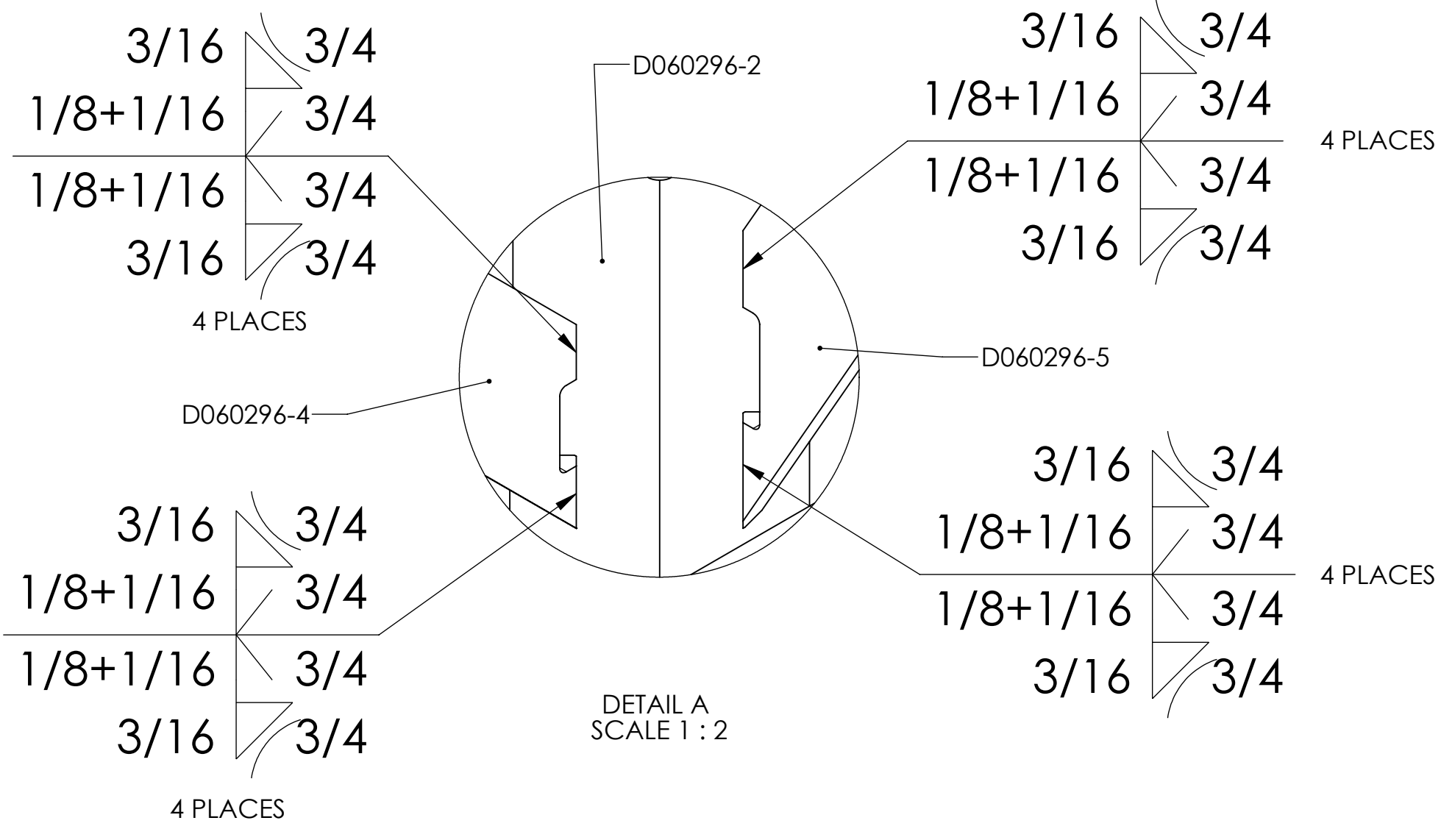
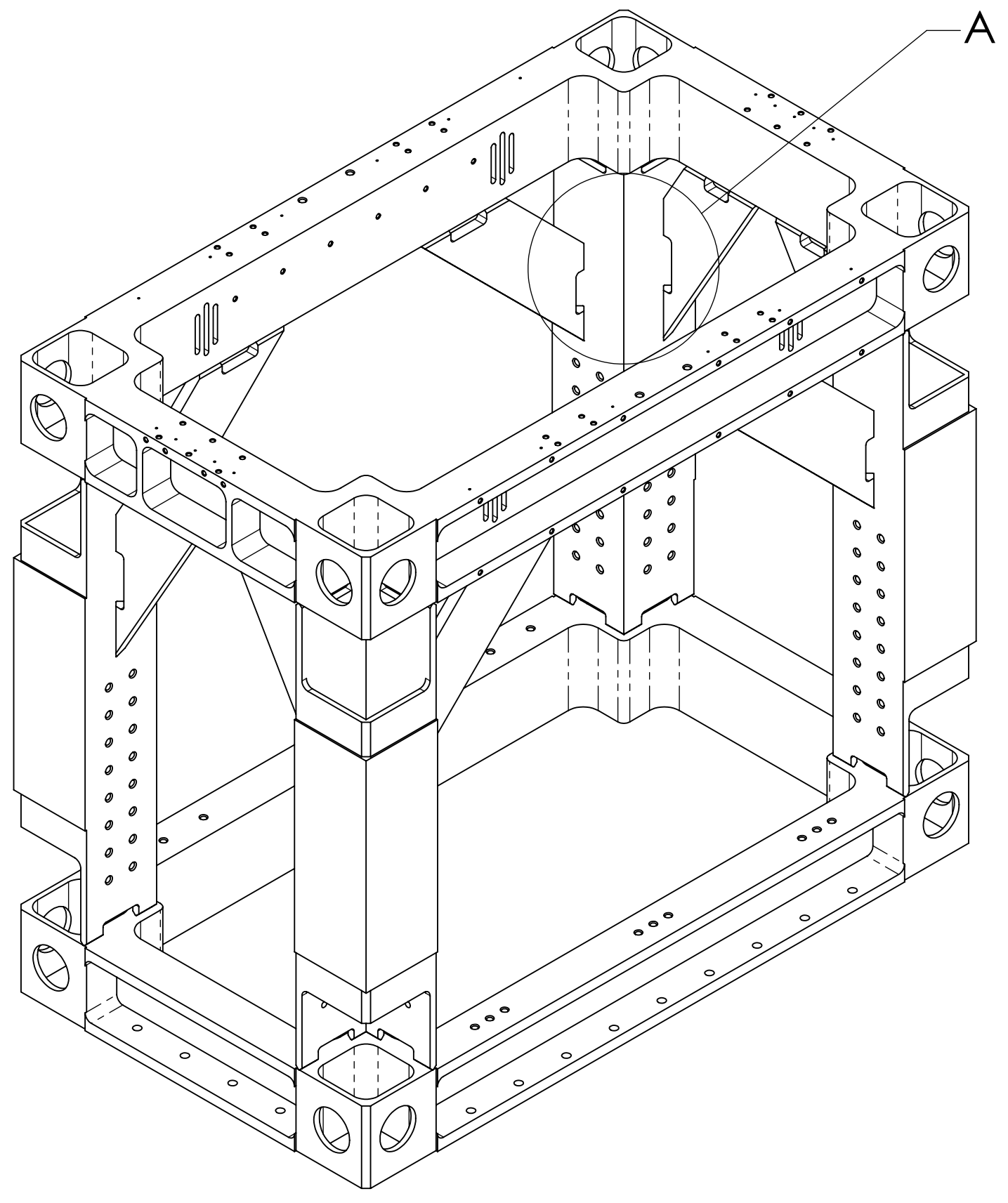
DETAIL E
SCALE 1 : 1



SECTION C-C



POST-WELD MACHINING

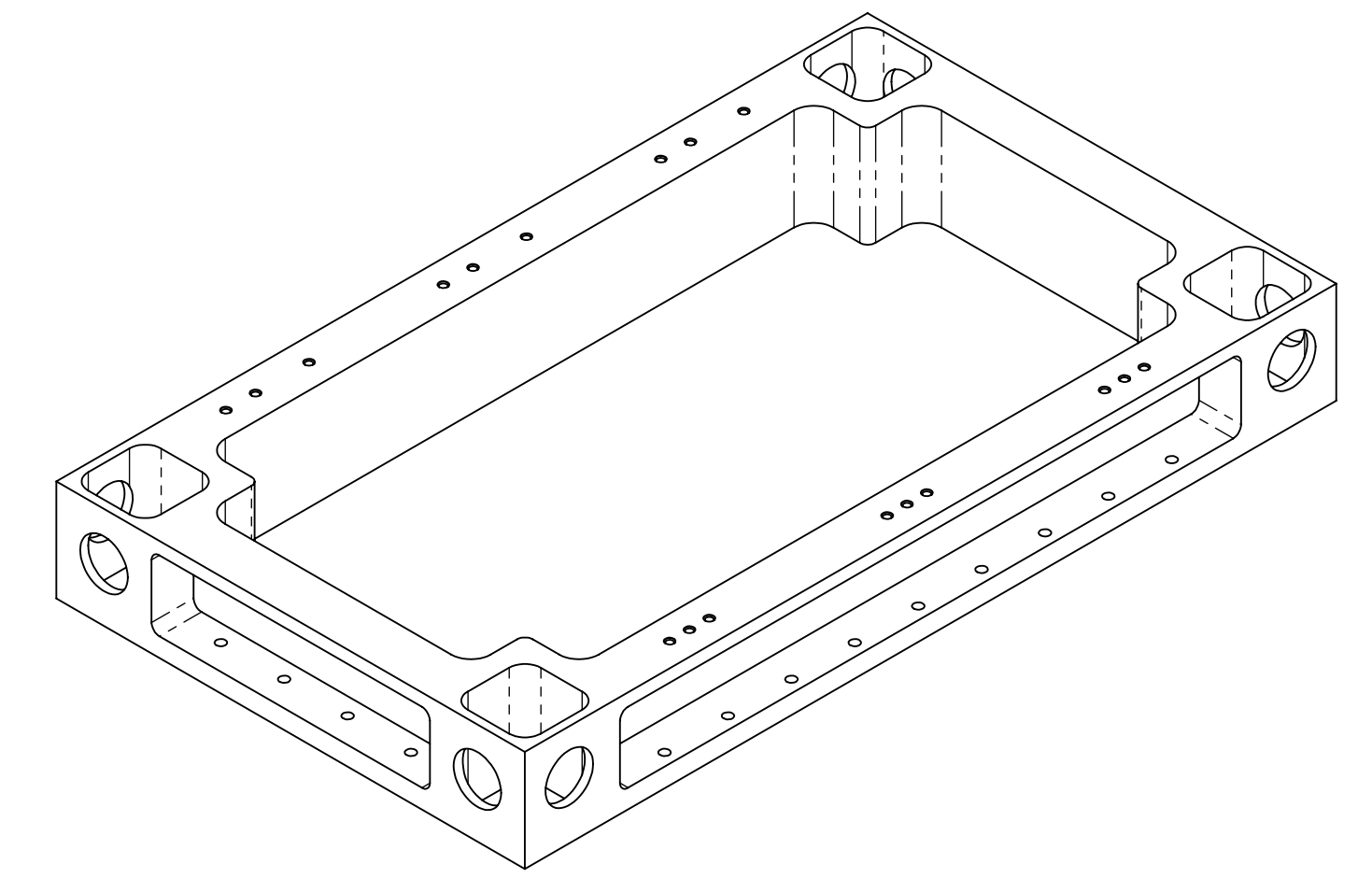
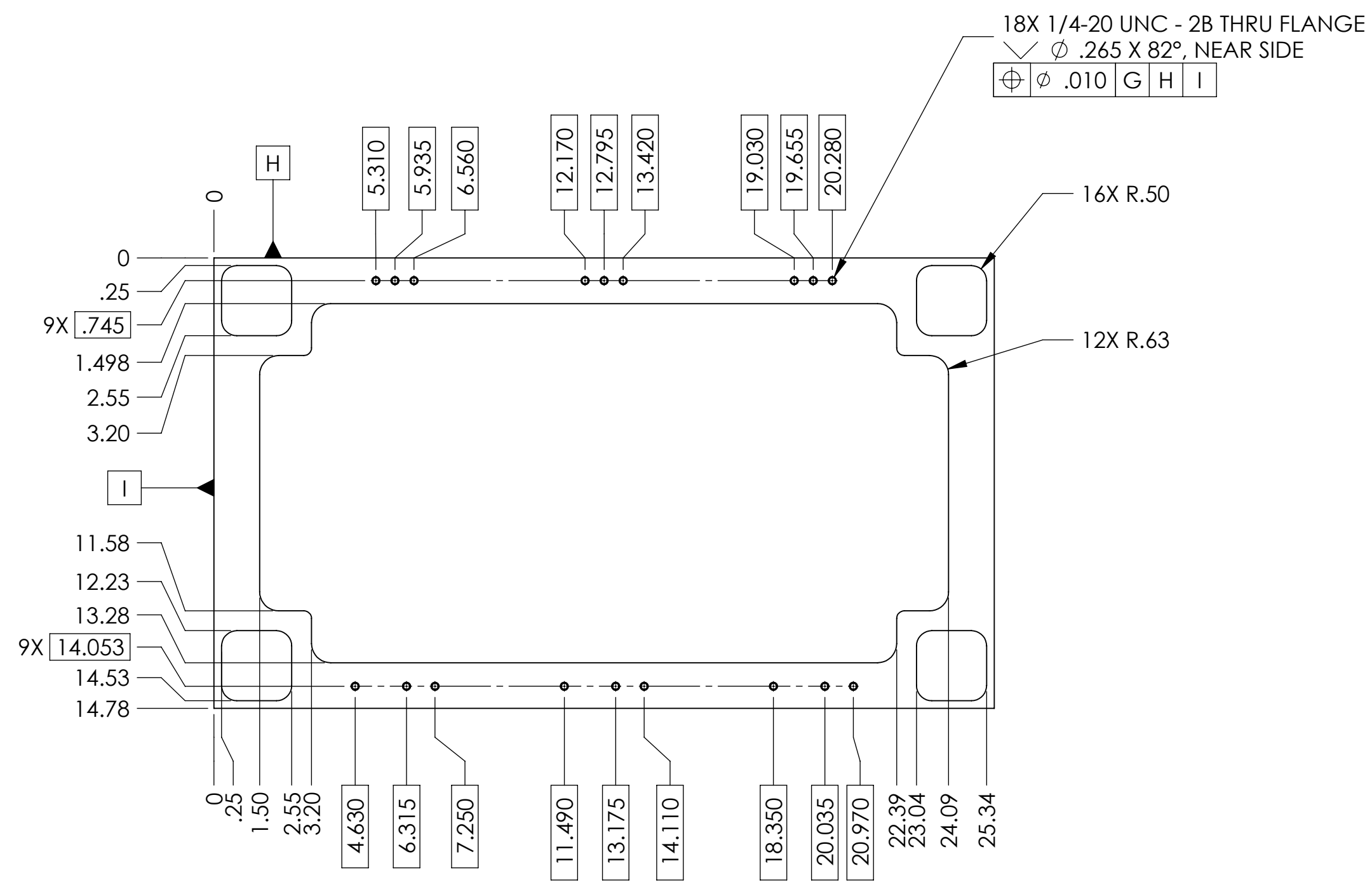


WELDMENT DETAILS

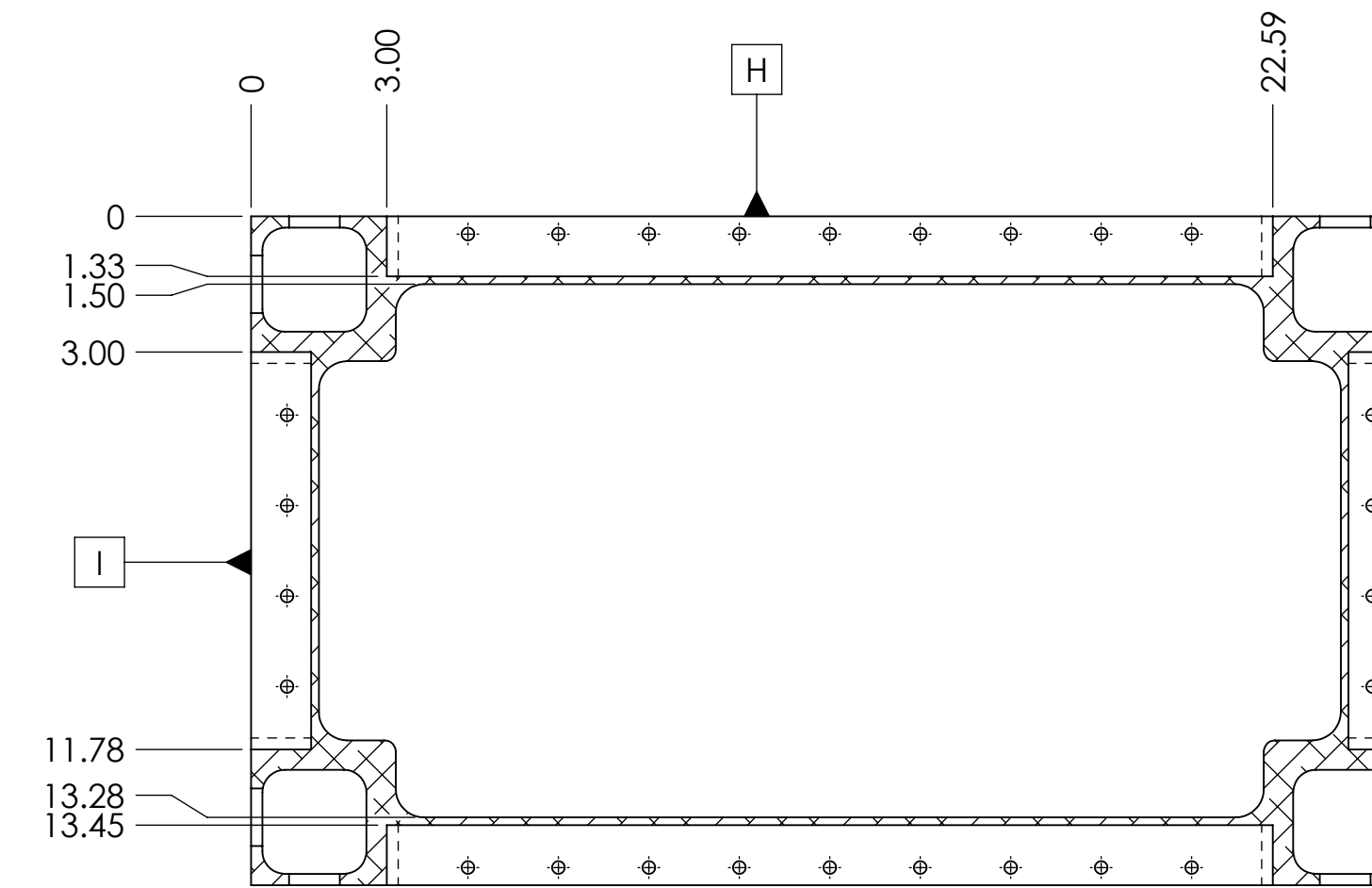
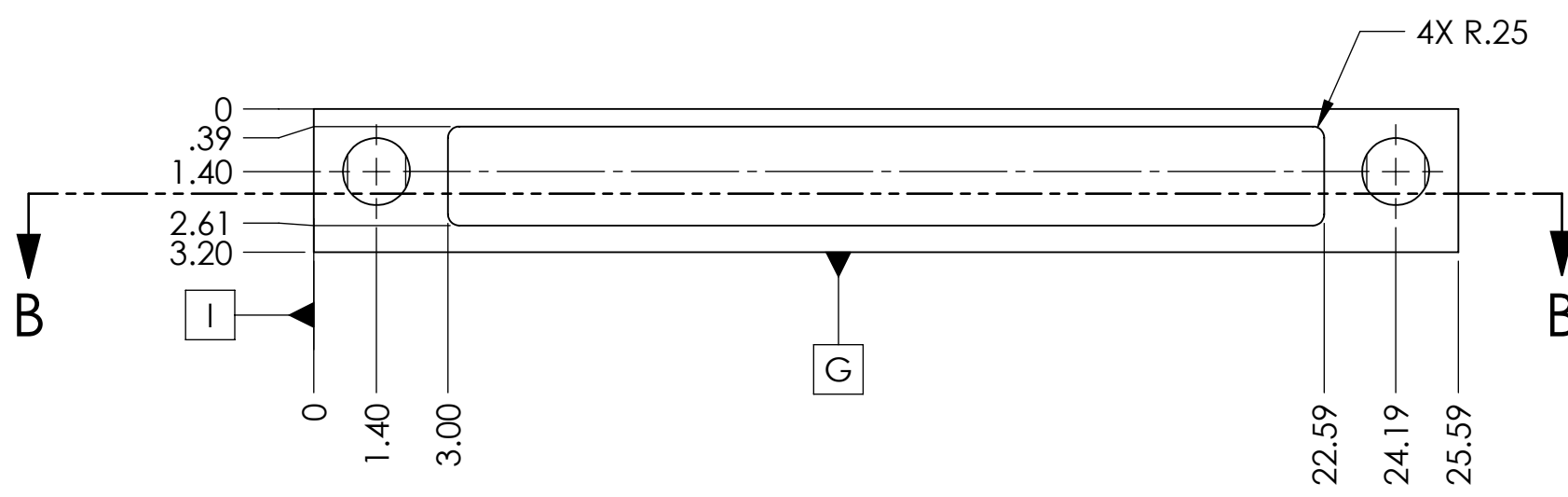
DIMENSIONS ARE IN INCHES	
TOLERANCES:	
XXX ± 0.01	
XXXX ± 0.005	
ANGULAR ± 0.5°	
SCALE: 1/4"	PROJECTION:
REV. B	

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 600 GROUP	
SYSTEM:	ADVANCED LIGO
SUB-SYSTEM:	SUS
NEXT ASSY:	D080125
PART NAME:	STRUCTURE WELDMENT, OUTPUT MODE CLEANER
REV.:	B

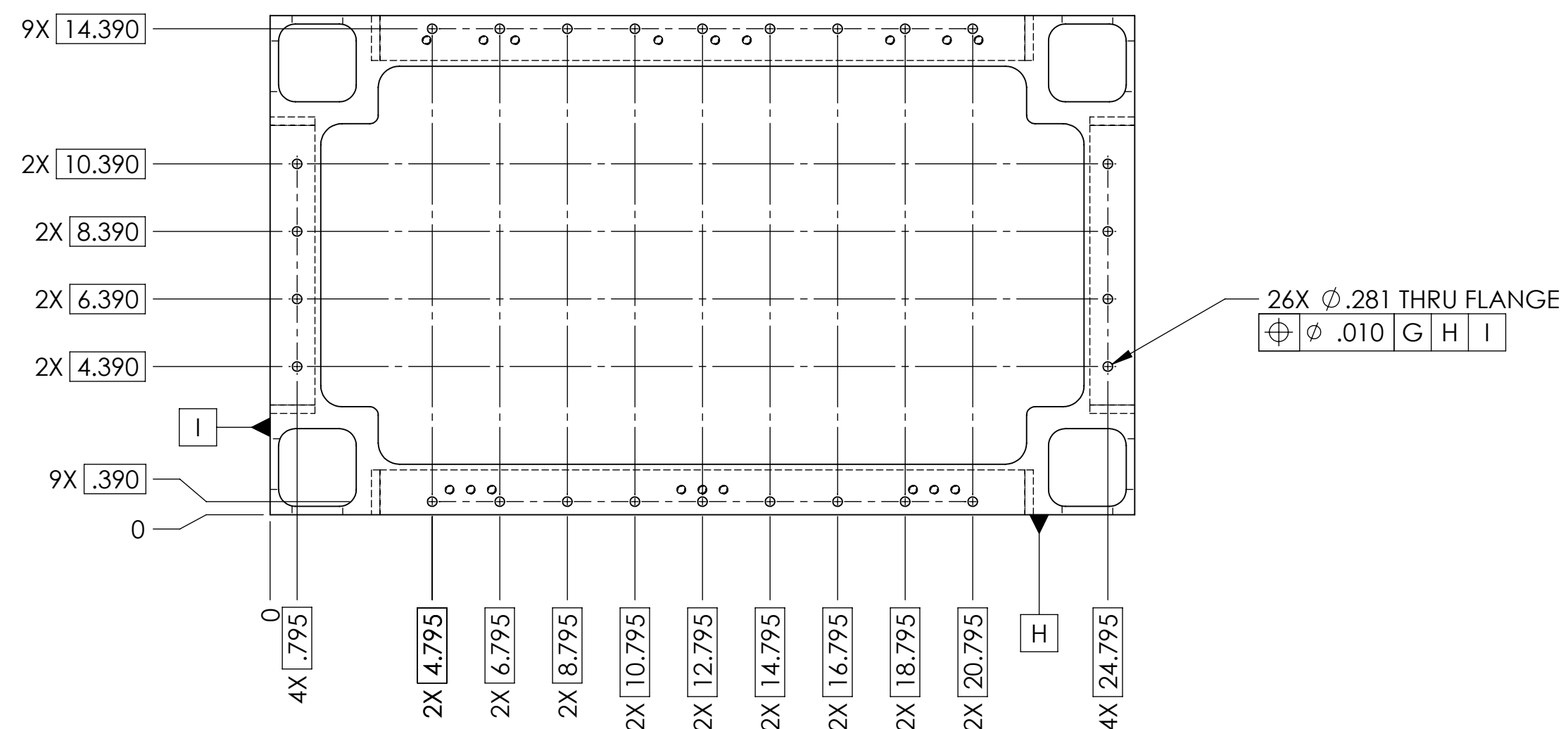
REV.:	B
DWG. NO.:	D060296
SHEET:	4 OF 8



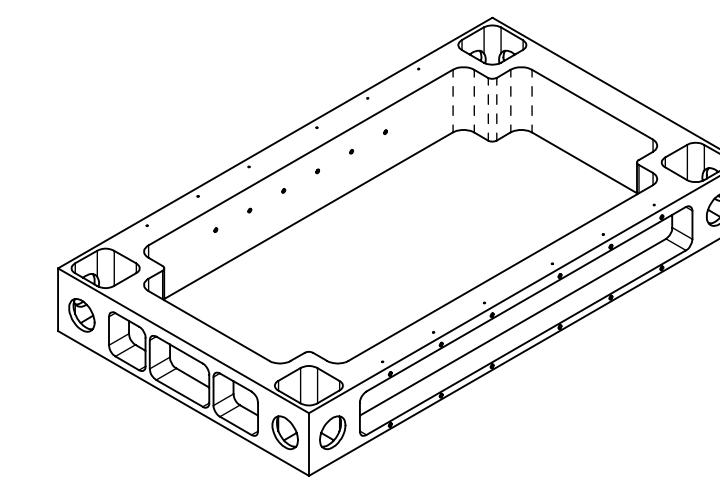
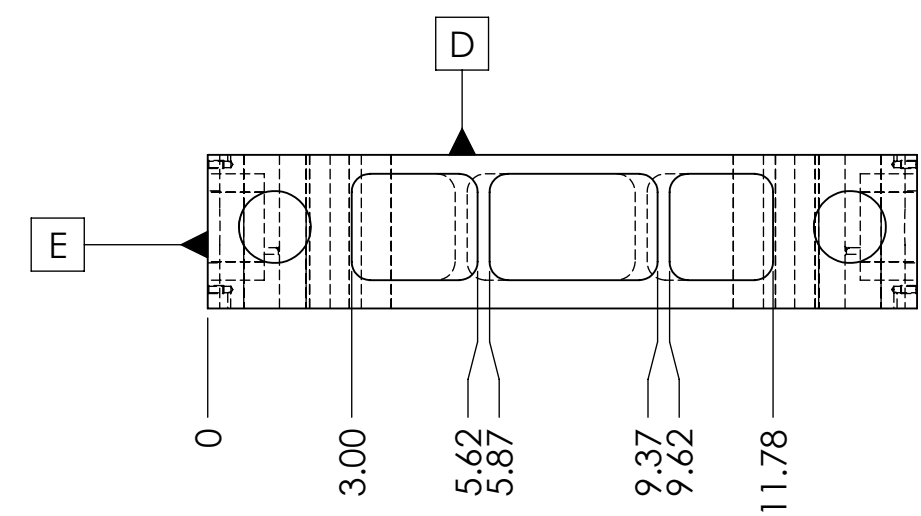
GENERAL VIEW
 FOR REFERENCE ONLY
 NO SCALE



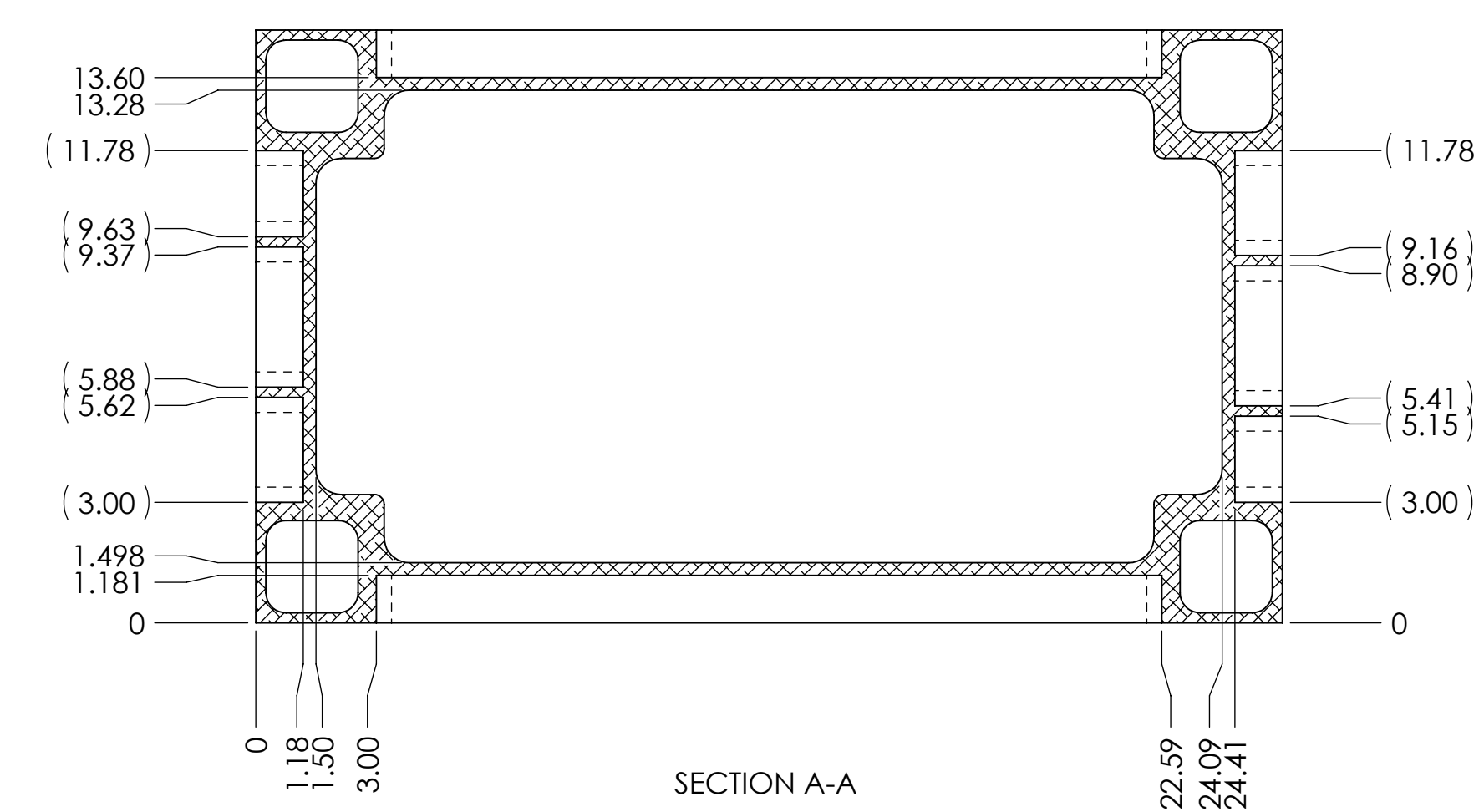
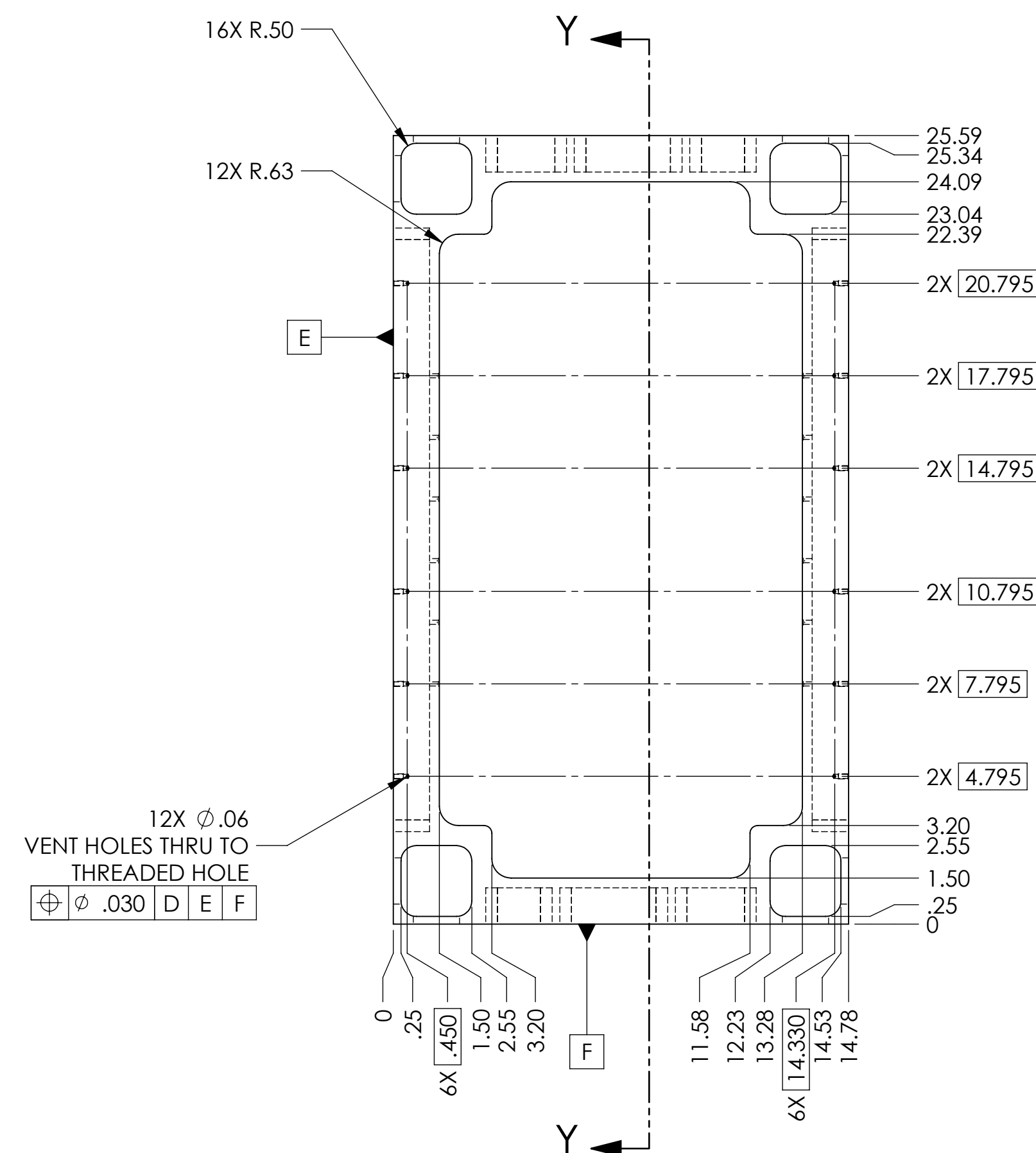
SECTION B-B



D060296-1
 BOTTOM

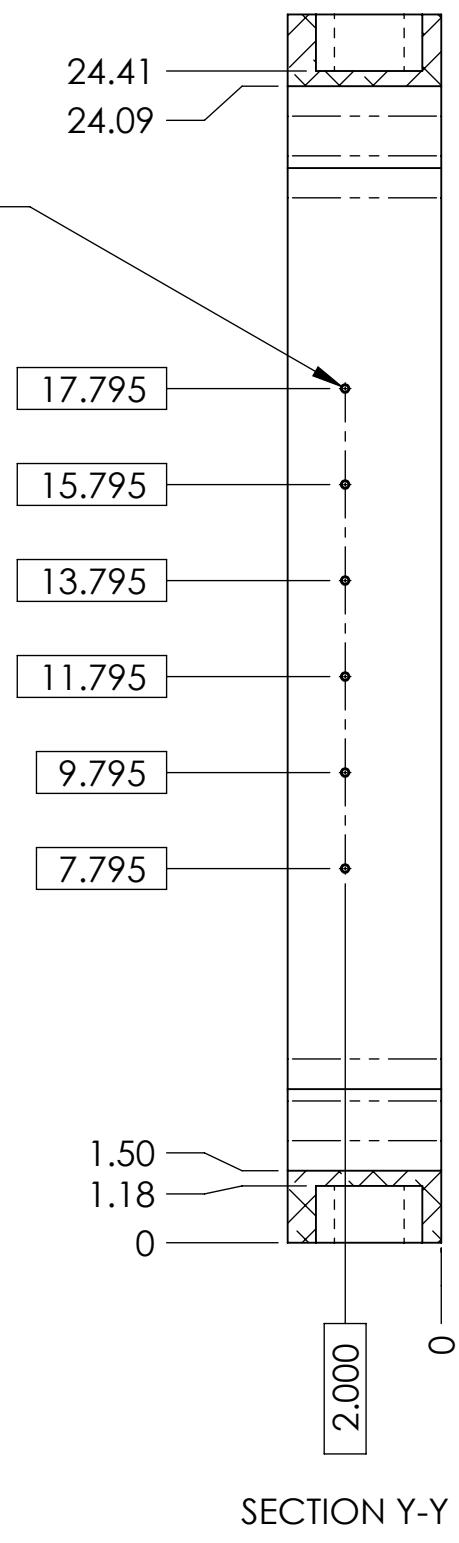


GENERAL VIEW
FOR REFERENCE ONLY
NO SCALE

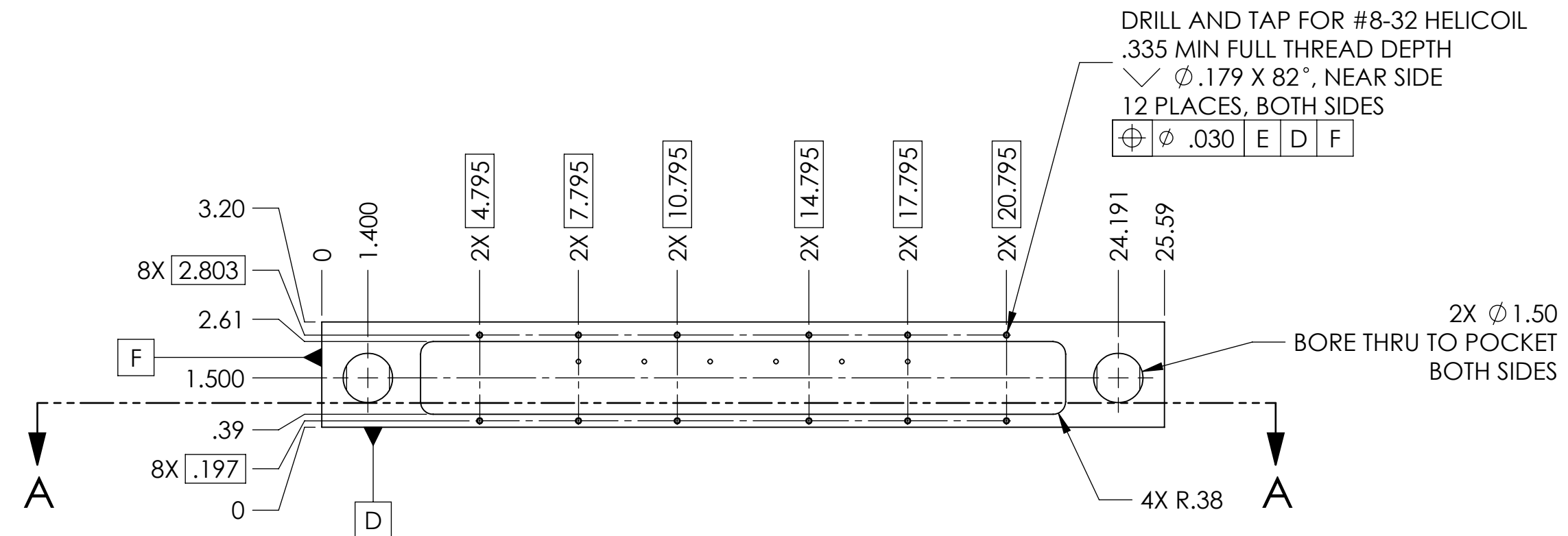
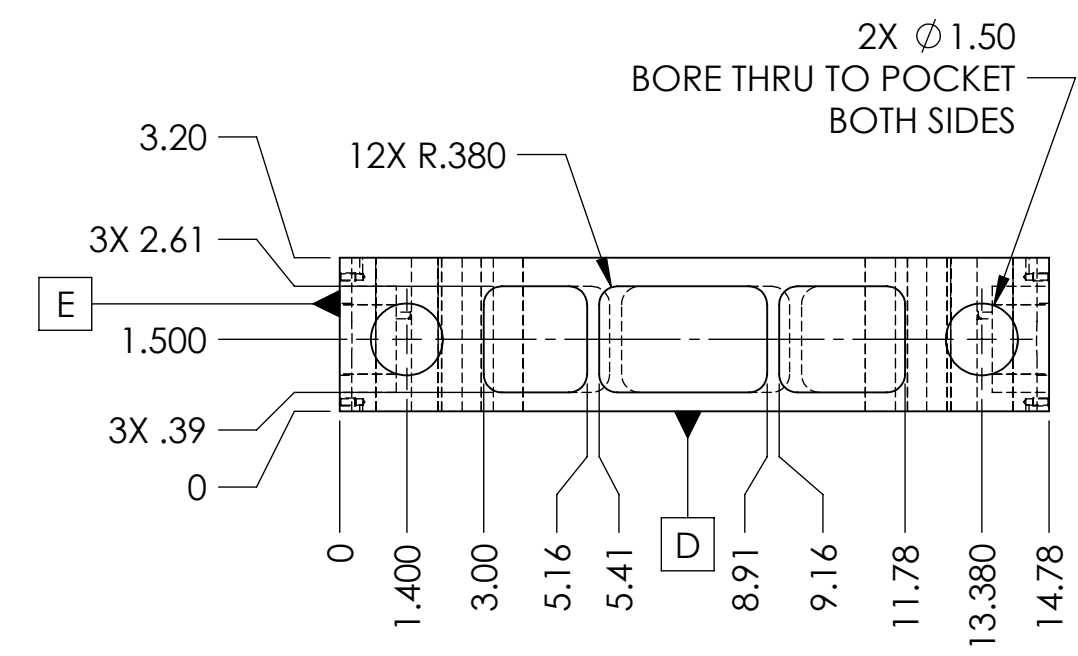


SECTION A-A

DRILL AND TAP FOR #8-32 HELICOIL, THRU WALL
∅.179 X 82°, NEAR SIDE
6 PLACES, BOTH SIDES
[⊕ ⊖] Ø .030 [E D F]



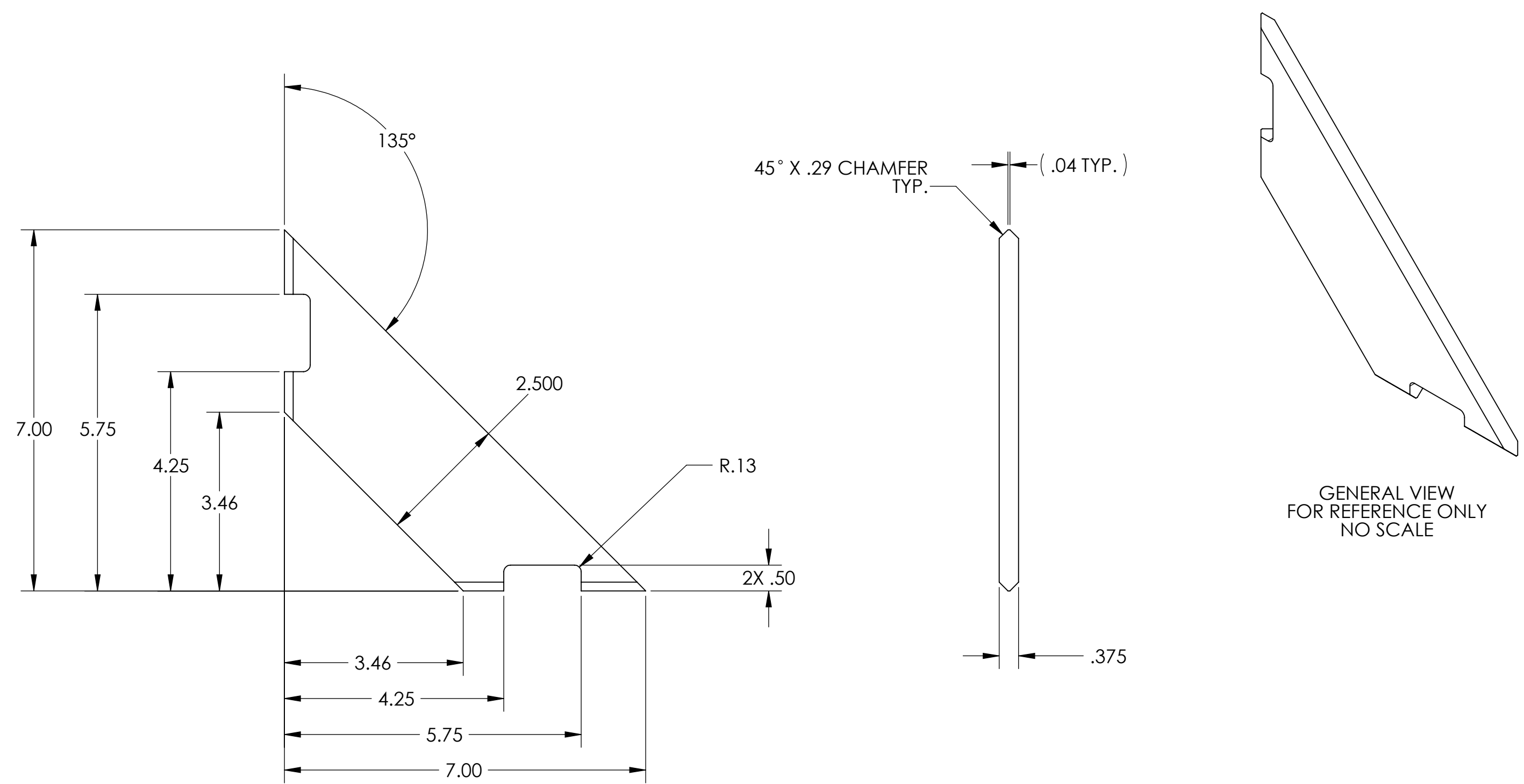
SECTION Y-Y



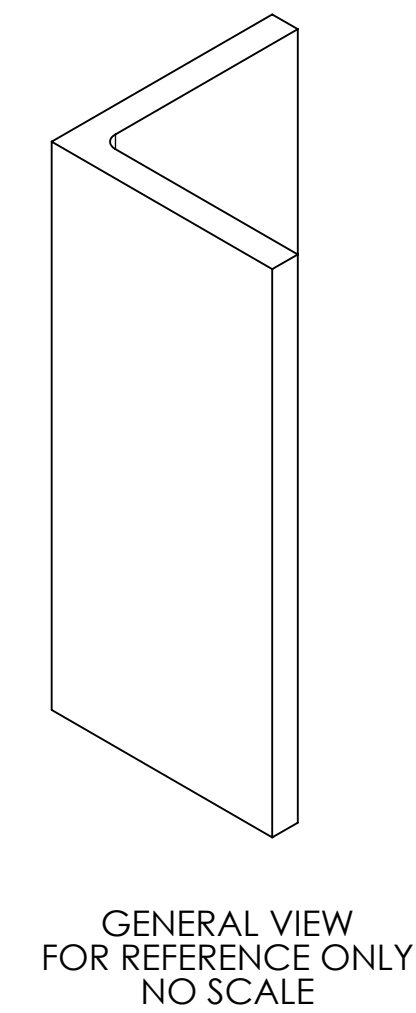
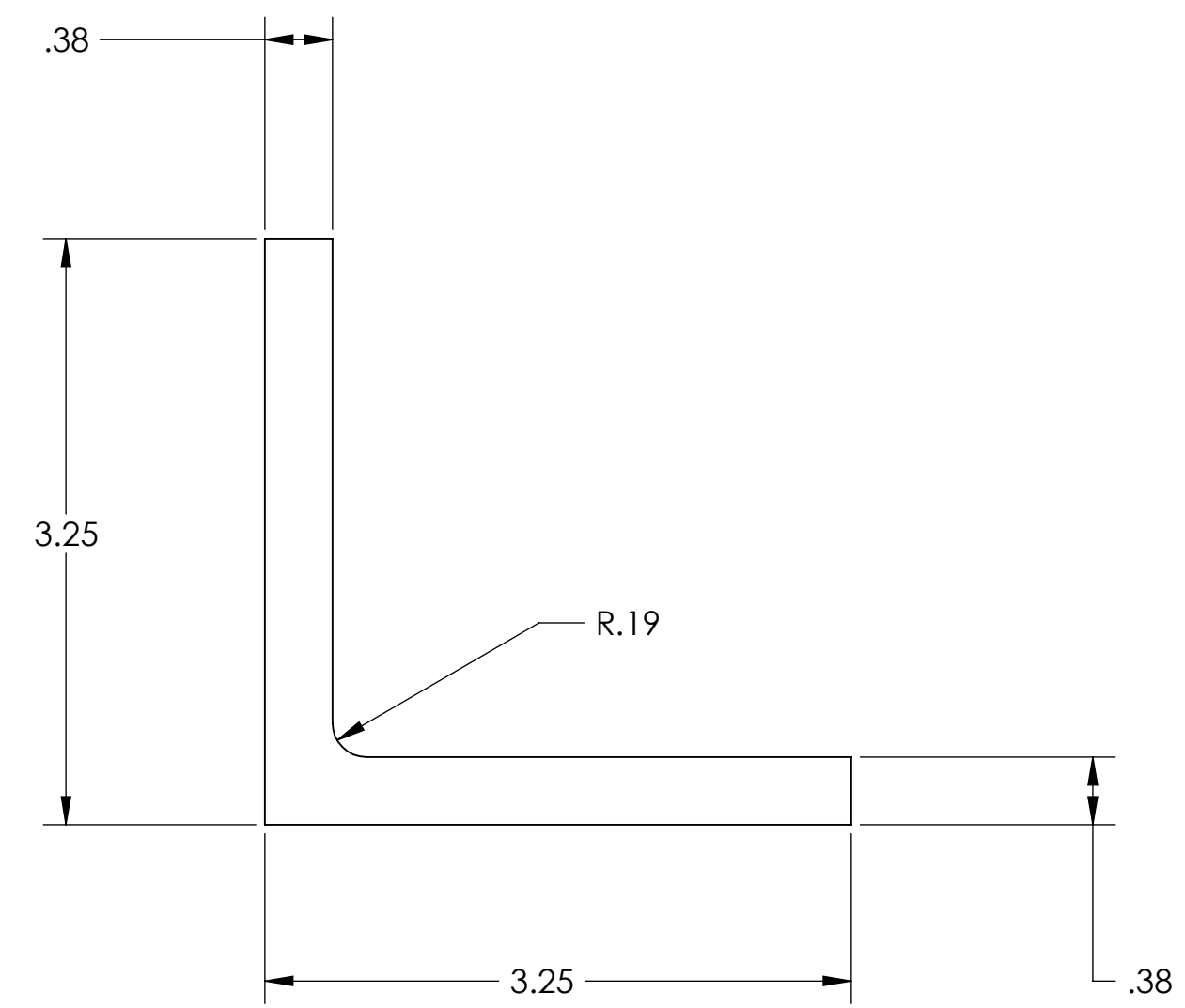
D060296-3
TOP

DIMENSIONS ARE IN INCHES		TOLERANCES:		SEE DWG. NO.	REV.
XXX	± 0.01	XXX	± 0.005	D	D060296
ANGULAR	± 0.5°	SCALE: 1:4	PROJECTION:	SHEET 6 OF 8	

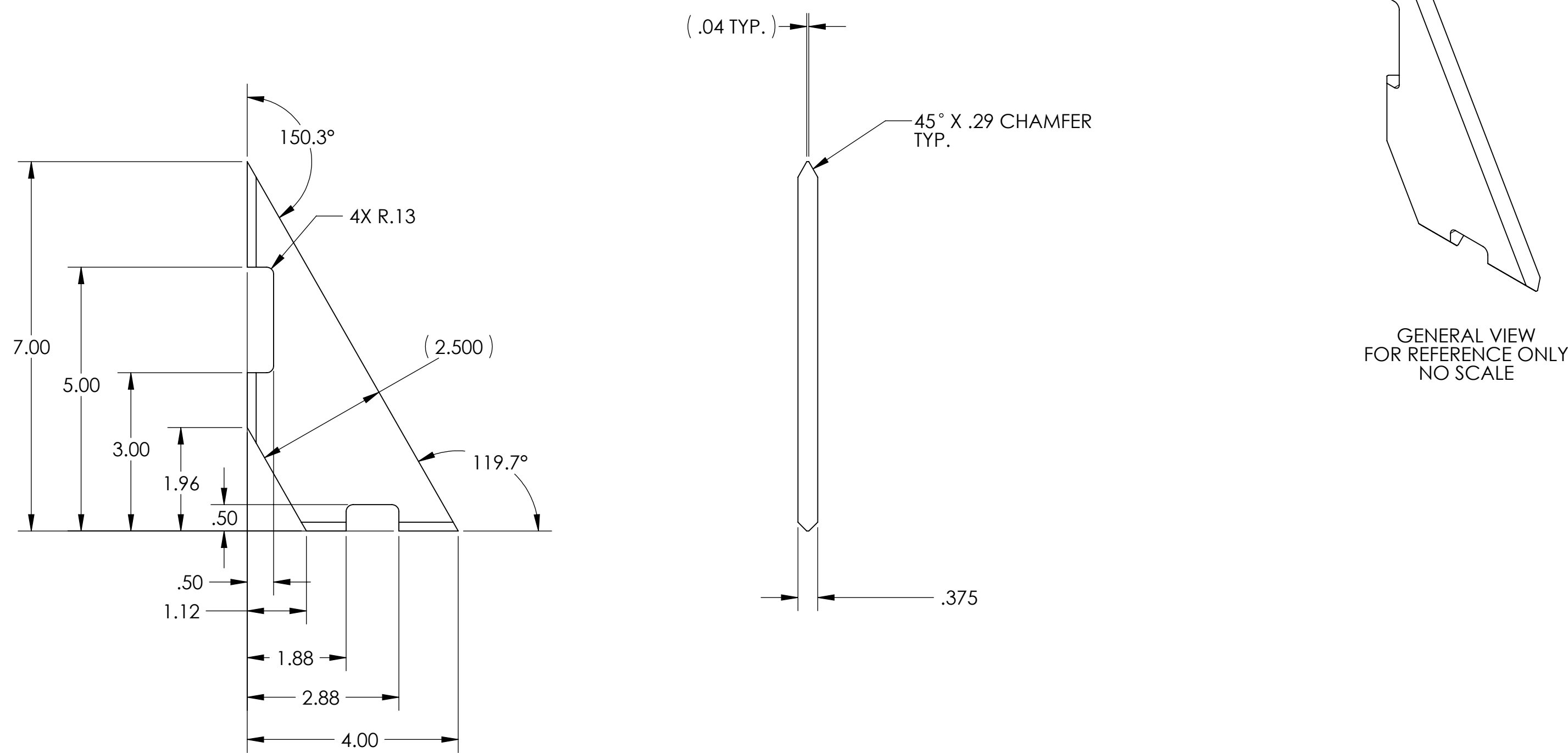
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 600 GROUP	
SYSTEM	ADVANCED LIGO
SUB-SYSTEM	SUS
NEXT ASSY	D080125
PART NAME STRUCTURE WELDMENT, OUTPUT MODE CLEANER	



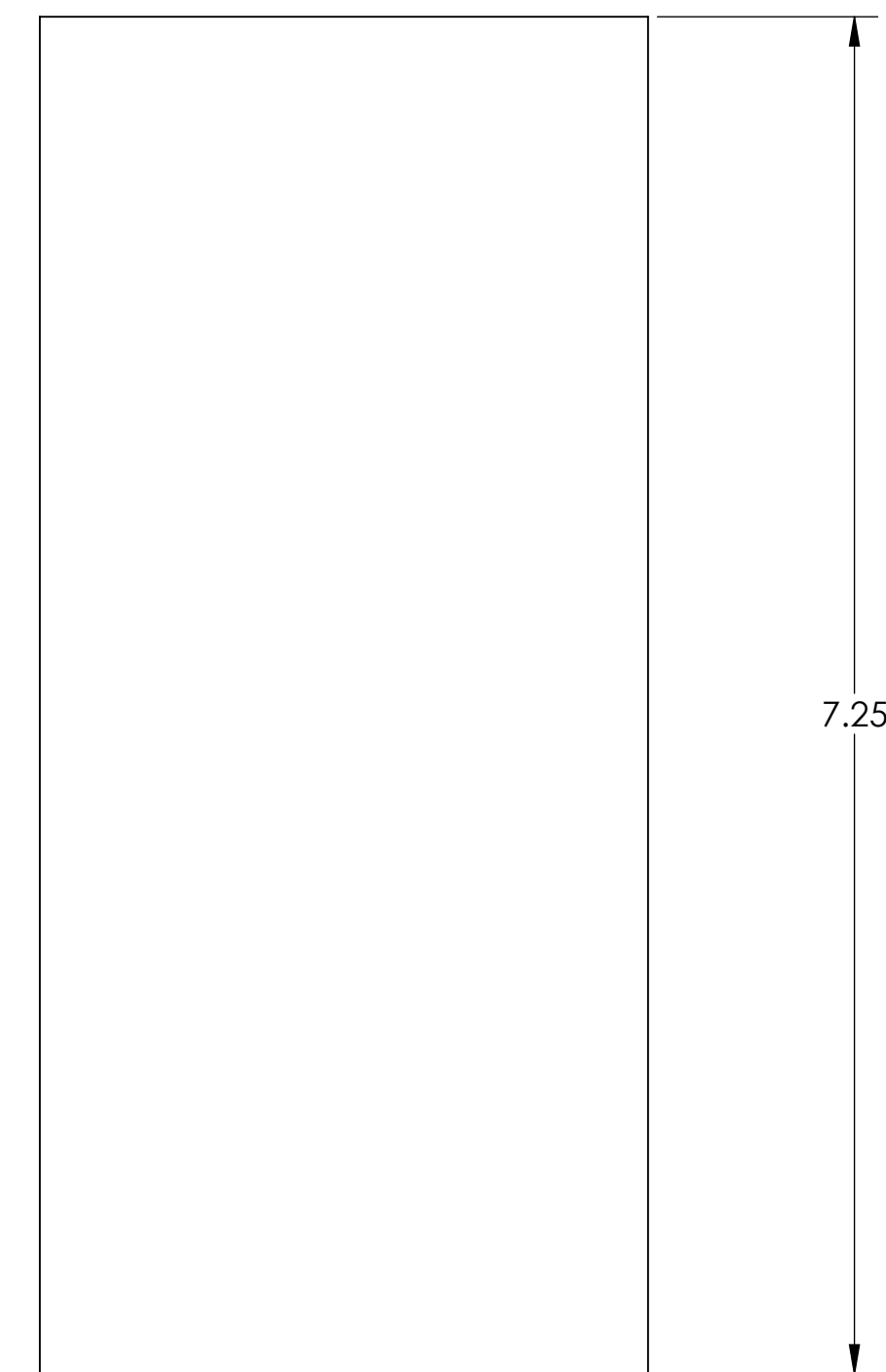
D060296-4
7 IN X 7 IN GUSSET



D060296-6
CORNER BRACE

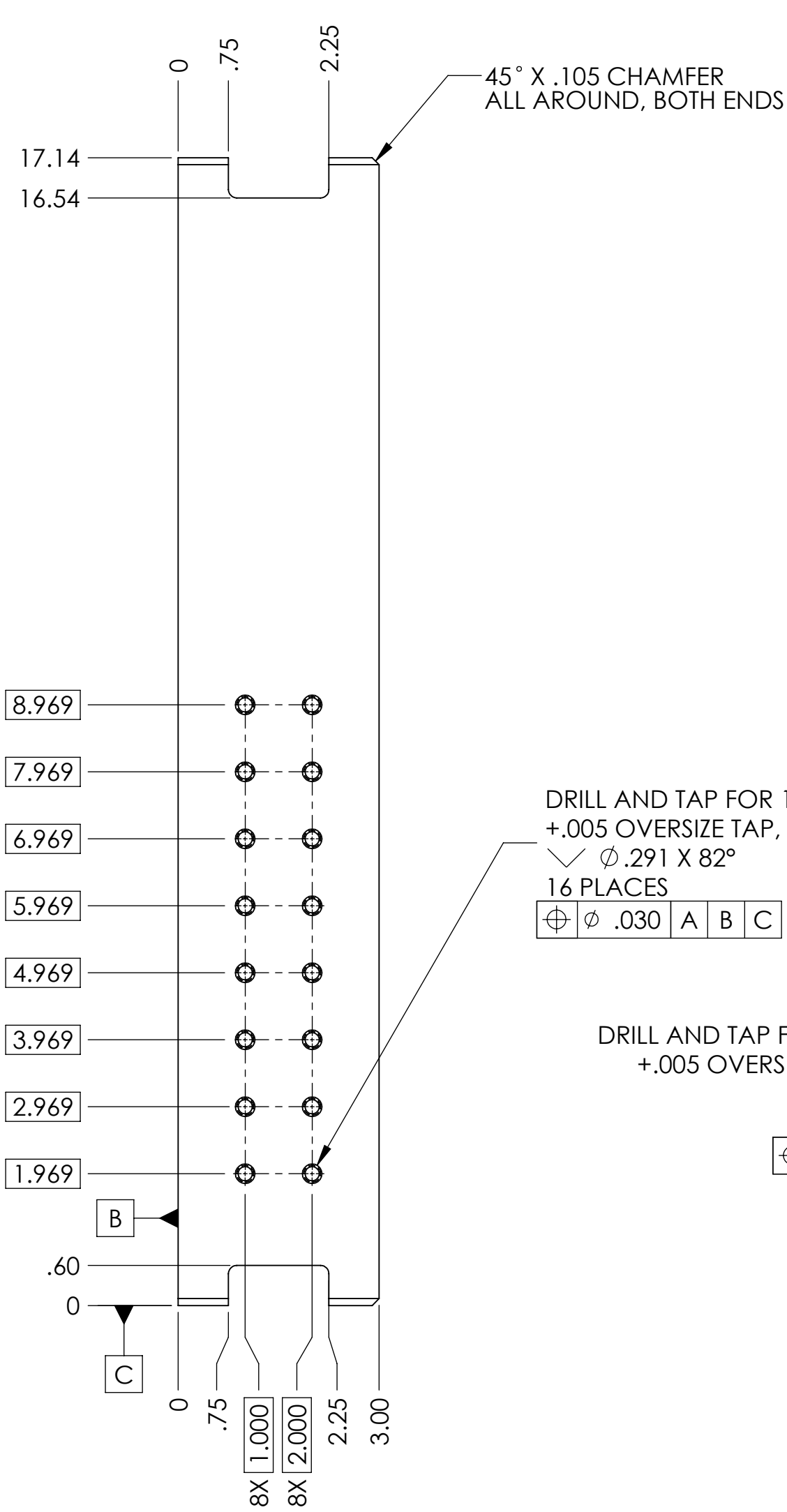
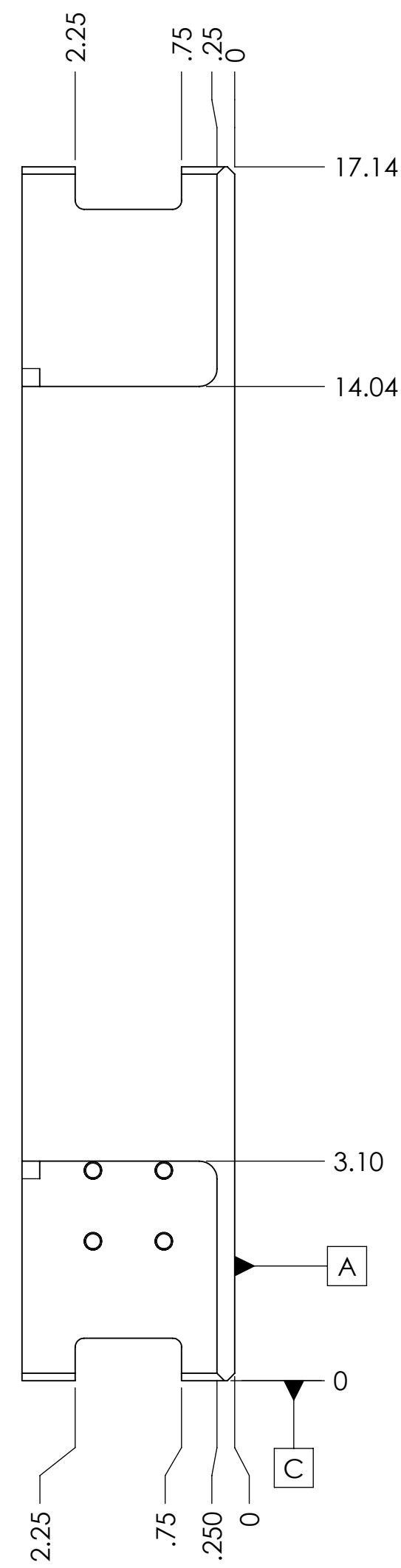
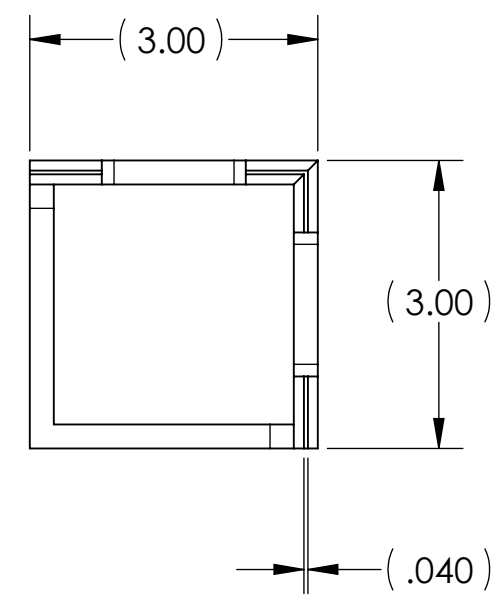


D060296-5
3 IN X 7 IN GUSSET



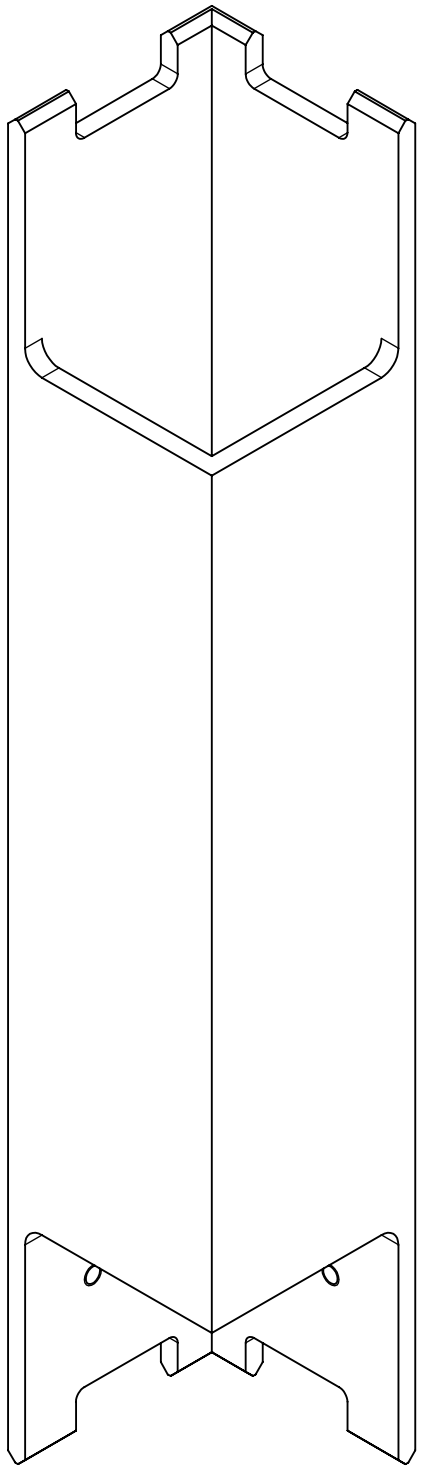
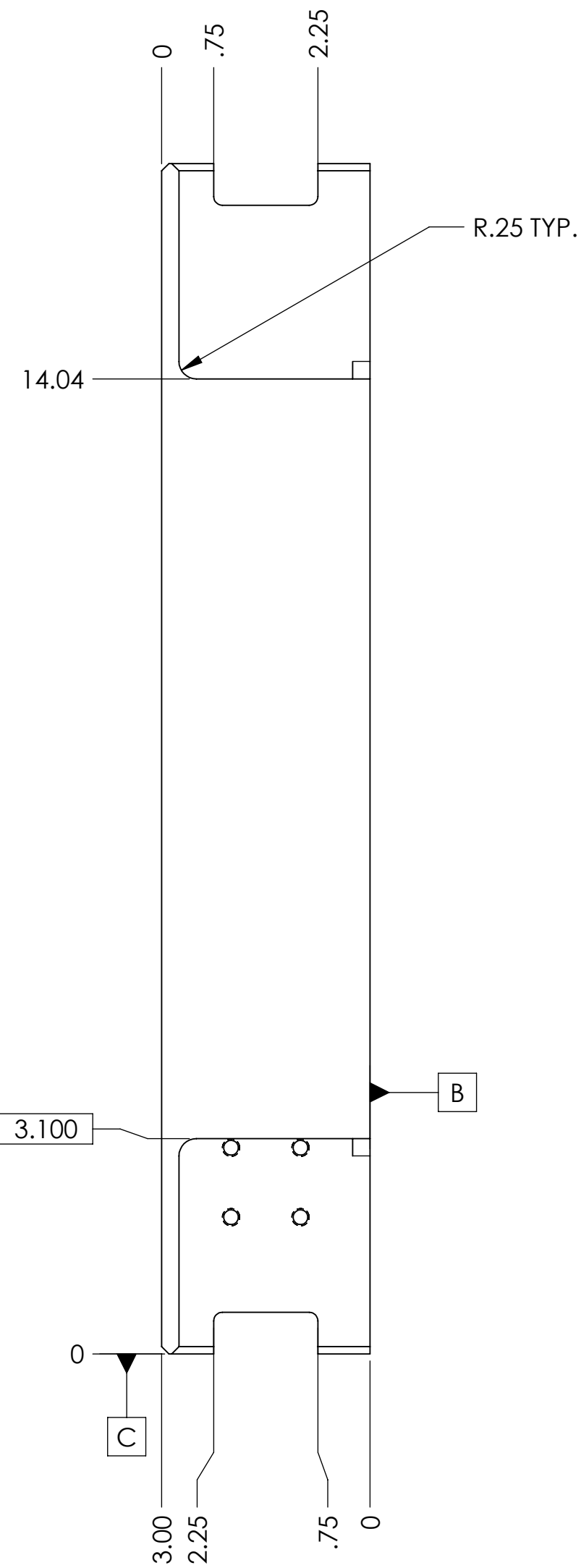
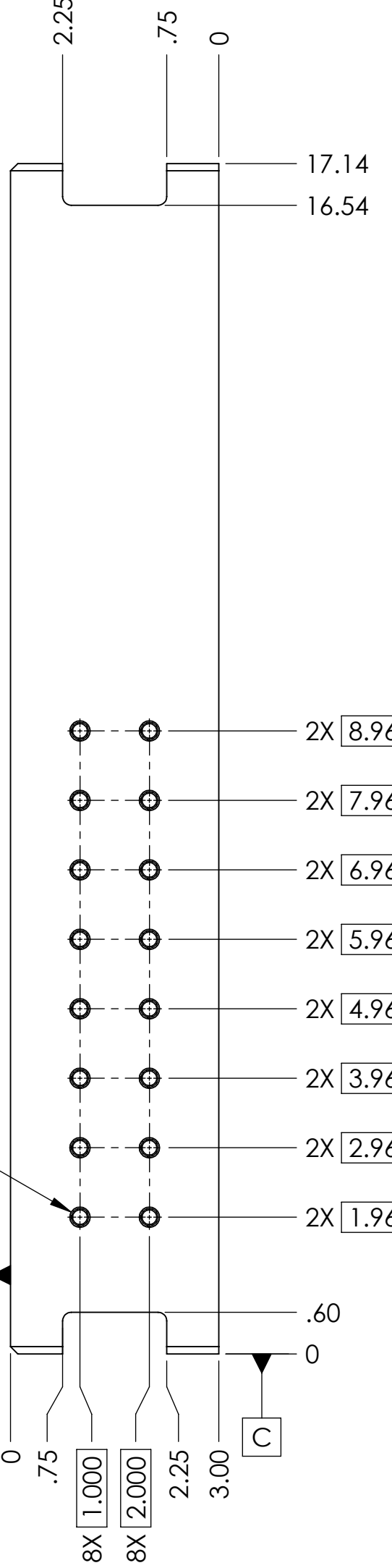
CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 600 GROUP	
SYSTEM	ADVANCED LIGO
SUB-SYSTEM	SUS
NEXT ASSY	D080125
PART NAME STRUCTURE WELDMENT OUTPUT MODE CLEANER	
REV.	B
SIZE	D
DWG. NO.	D060296
SCALE	1:2
PROJECTION	
SHEET 7 OF 8	

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 XX ± .01
 XXX ± 0.005
 ANGULAR ± 0.5°



DRILL AND TAP FOR 1/4-20 UNC-2B,
+.005 OVERSIZE TAP, THRU WALL
∅ .291 X 82°
16 PLACES
⊕ ∅ .030 A B C

DRILL AND TAP FOR 1/4-20 UNC-2B,
+.005 OVERSIZE TAP, THRU WALL
∅ .291 X 82°
16 PLACES
⊕ ∅ .030 B A C



D060296-2
LEG