

REV.	DATE	DCN #	DRAWING TREE #
V1	15 OCT 2020	E2000547-x0	-
V2	28 OCT 2020	E2000573-x0	-
-	-	-	-

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE") ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. APPROXIMATE WEIGHT =
 • -101: 66 lbs
 • -102: 74 lbs
 • -103: 83 lbs
 • -201: 107 lbs
 • -202: 124 lbs
 • -203: 141 lbs

7. FINISH ALL ITEMS EXCEPT ITEM 9 PER:

• PAINT ALL SURFACES. USE MEDIUM BLUE SHERWIN WILLIAMS (POLANE (R) T-PLUS POLYURETHANE ENAMEL). PRIME WITH SHERWIN WILLIAMS INDUSTRIAL WASH PRIMER P60G2 OR EQUIVALENT.

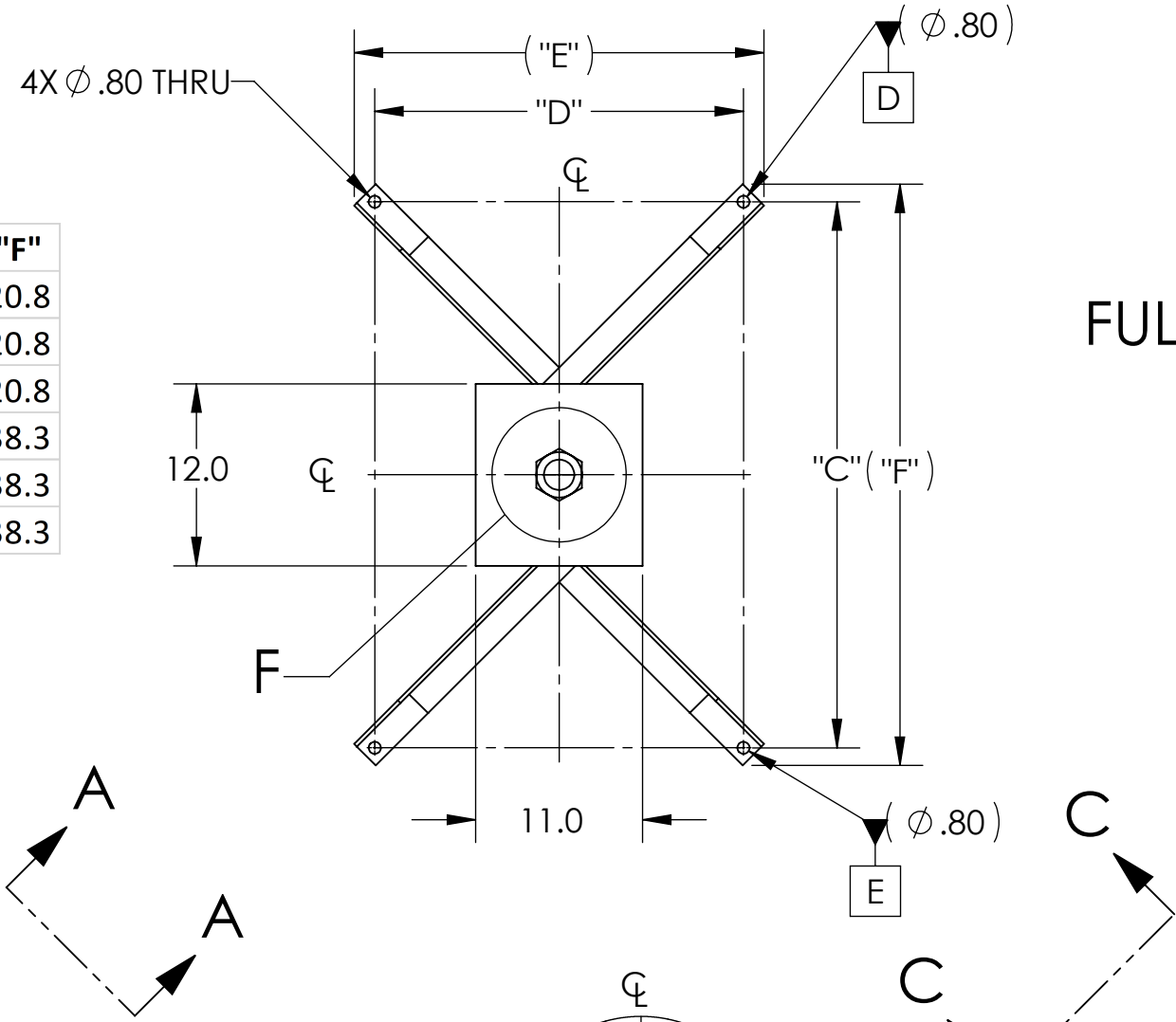
OR
 • HOT DIP GALVANIZE PER ASTM A123.

DURING FINISHING, MASK ITEM 9 AS NEEDED

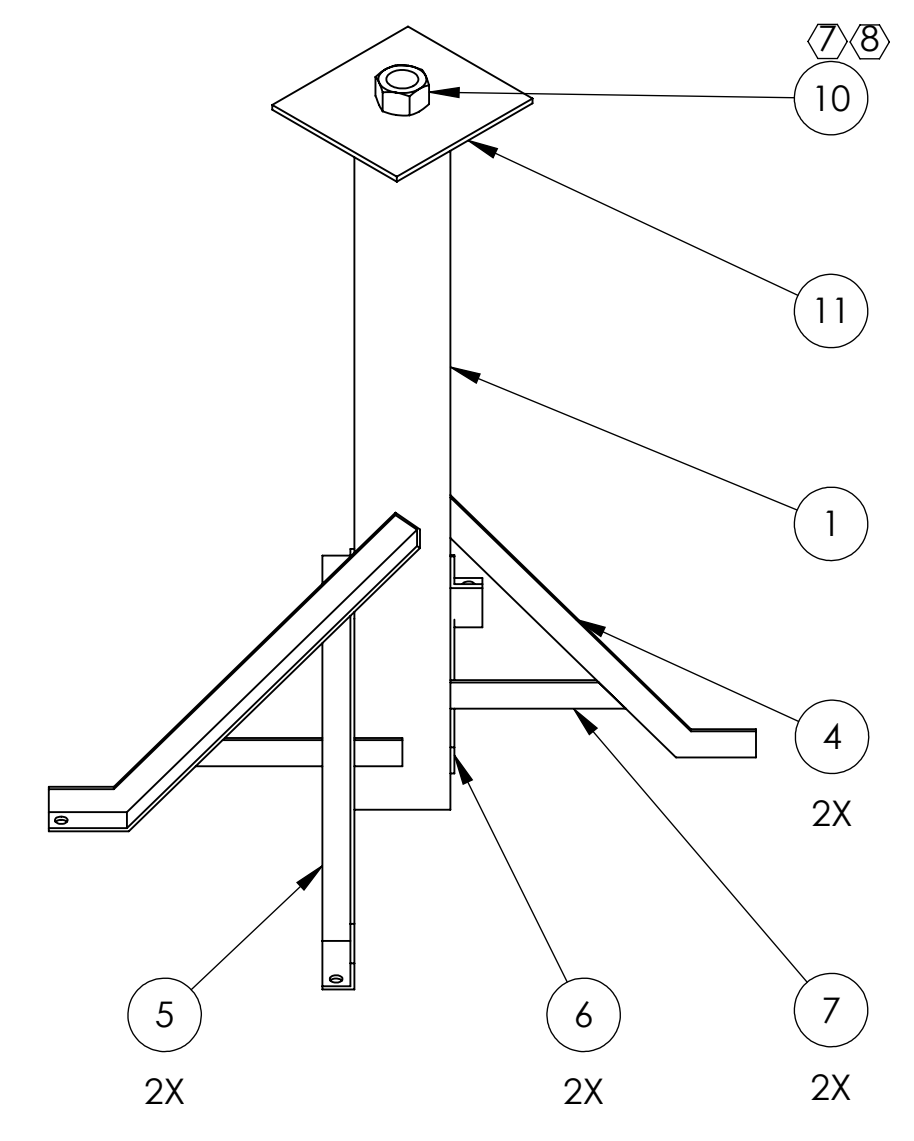
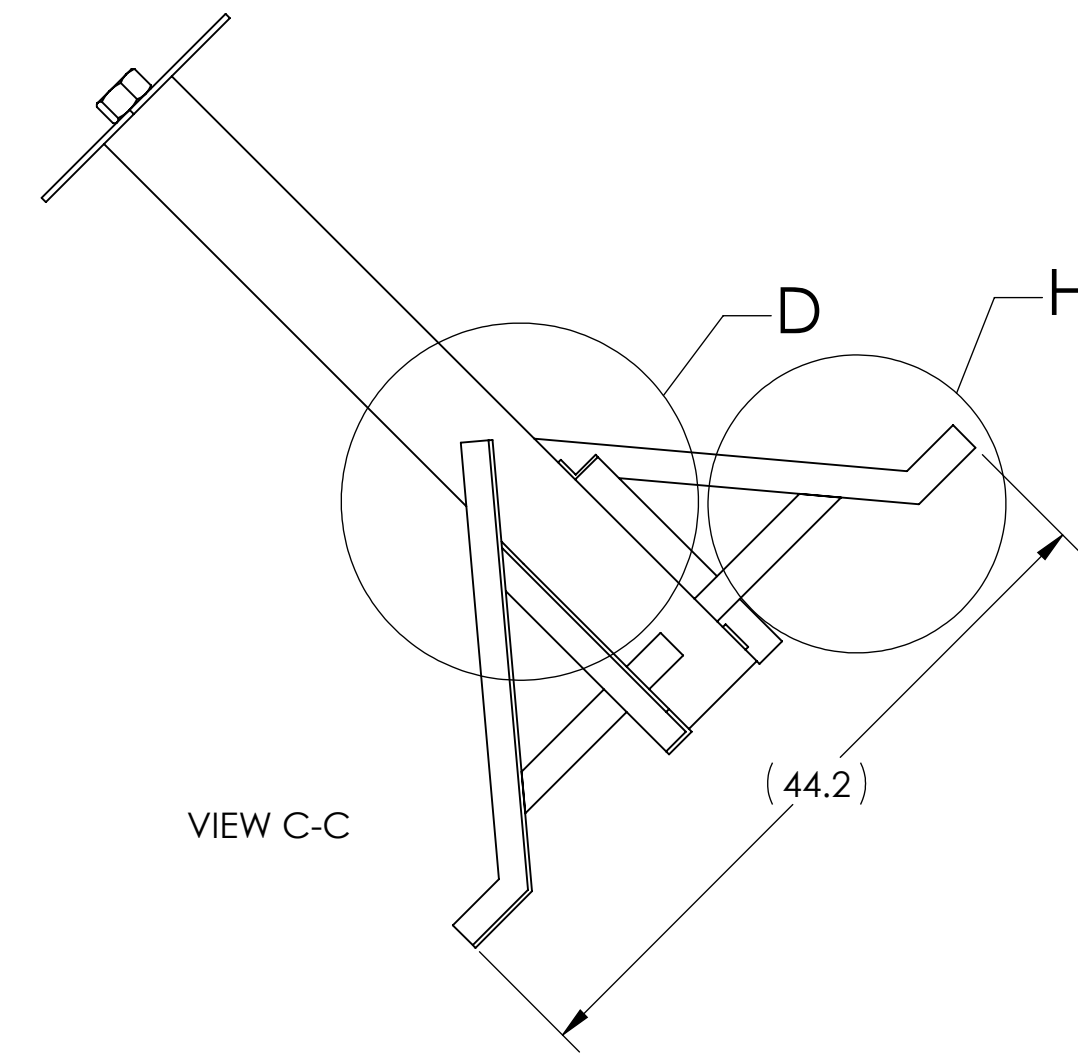
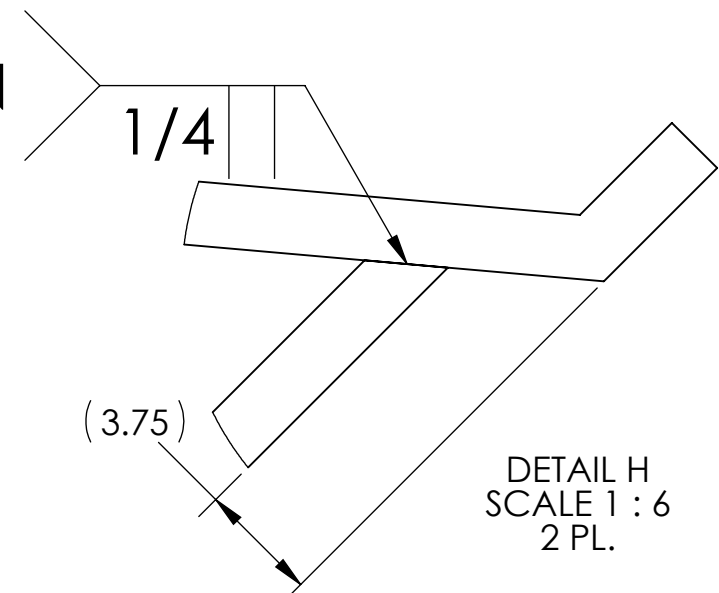
8. FOR ITEM 9, APPLY OXISOLV RUST INHIBITOR TO ALL UNPAINTED SURFACES PER MFG INSTRUCTIONS.

9. D2000440-203 DRAWN. ALL OTHER CONFIGURATIONS HAVE EQUIVALENT CONSTRUCTION.

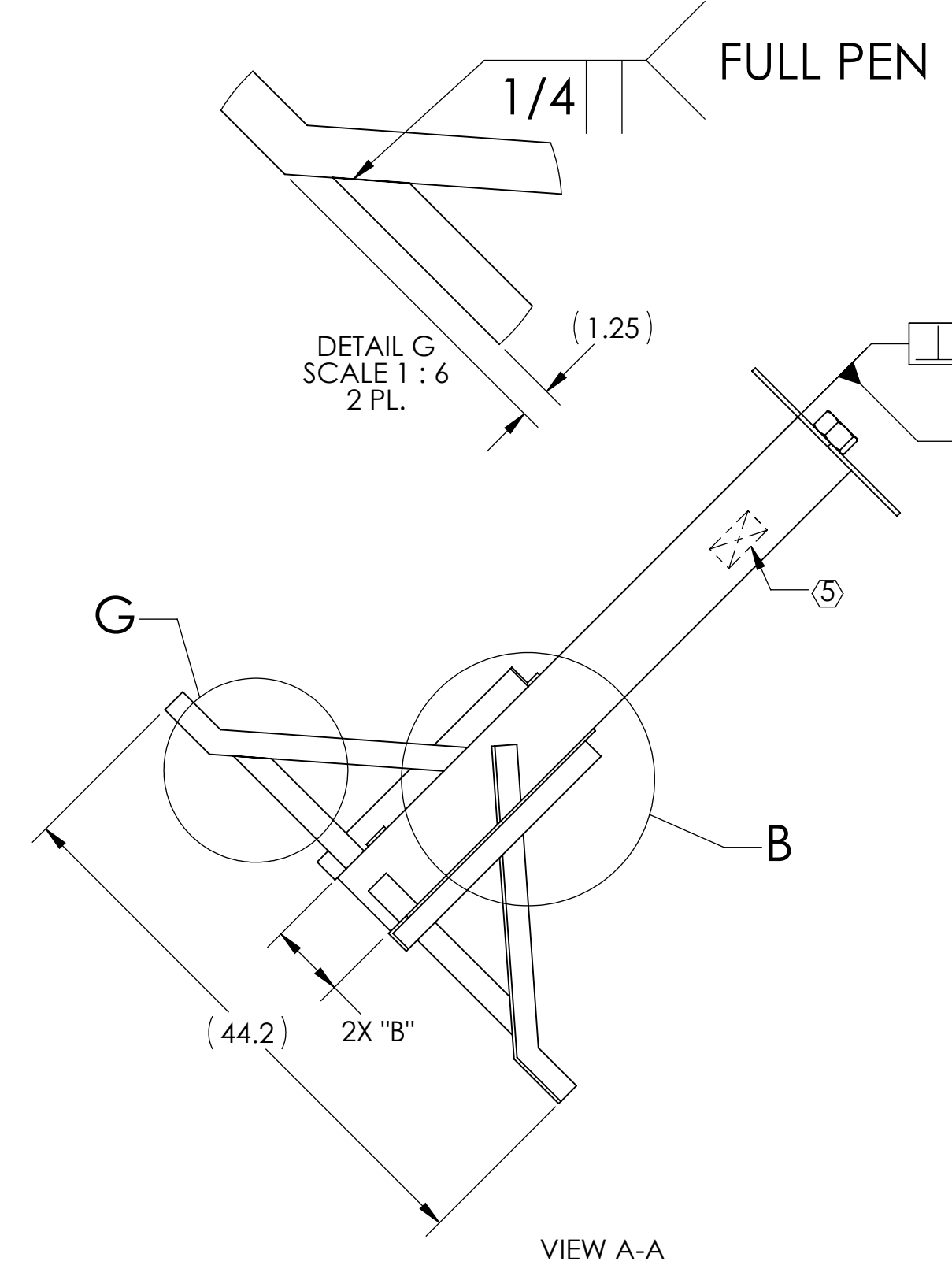
Type	"C"	"D"	"E"	"F"
-101	18.00	10.84	13.7	20.8
-102	18.00	10.84	13.7	20.8
-103	18.00	10.84	13.7	20.8
-201	36.00	24.30	27.0	38.3
-202	36.00	24.30	27.0	38.3
-203	36.00	24.30	27.0	38.3



FULL PEN



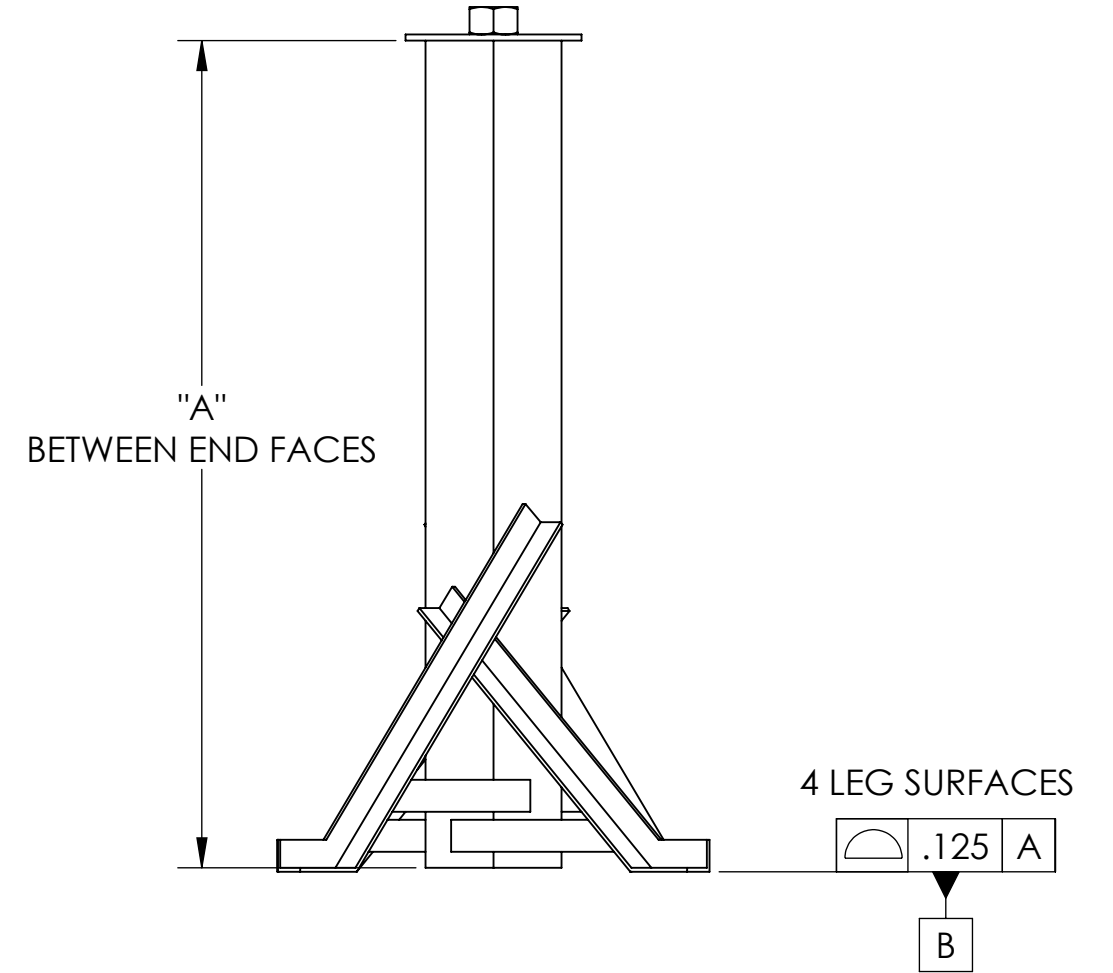
D2000440-203 ISO VIEW



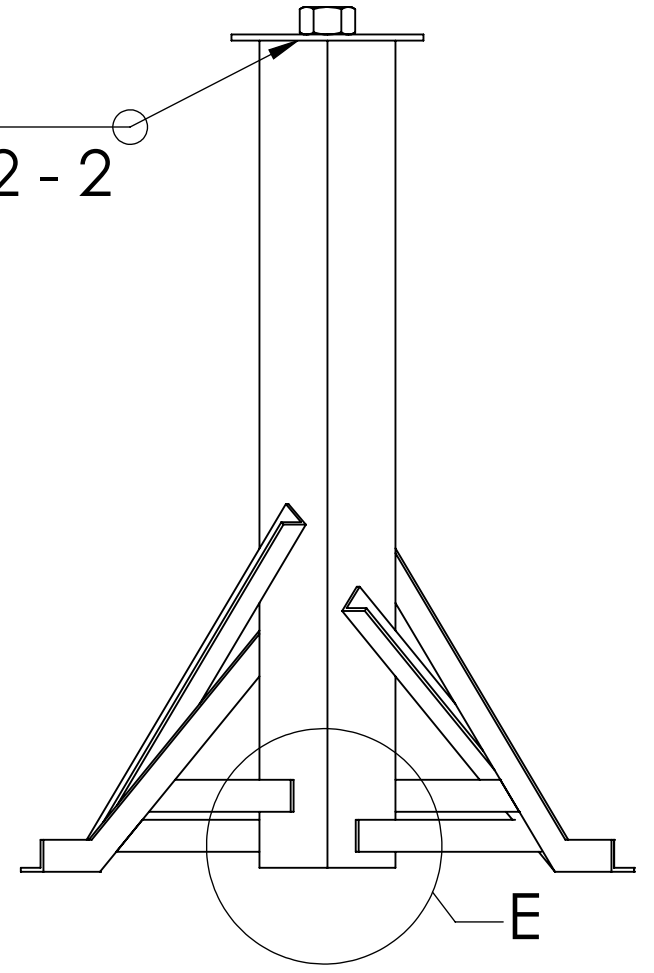
VIEW A-A

1/2 EACH FACET

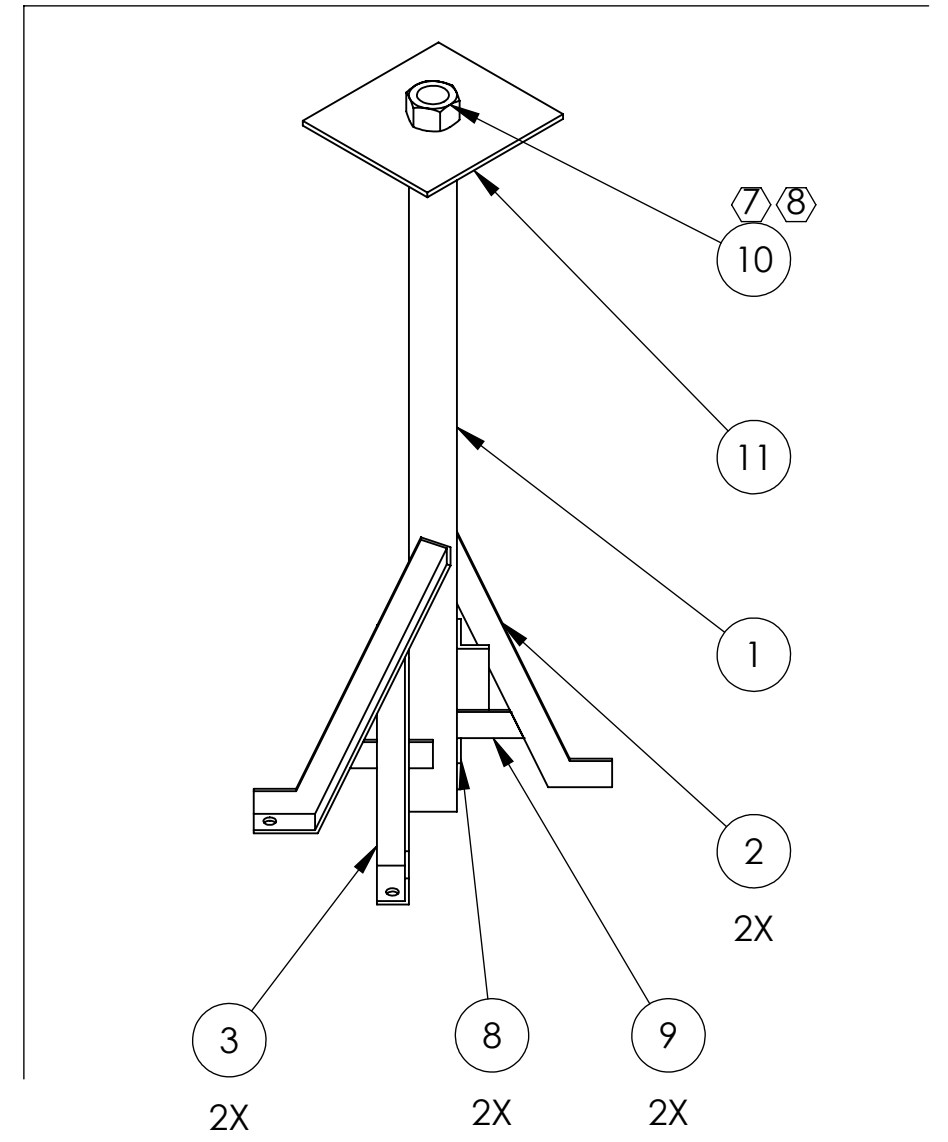
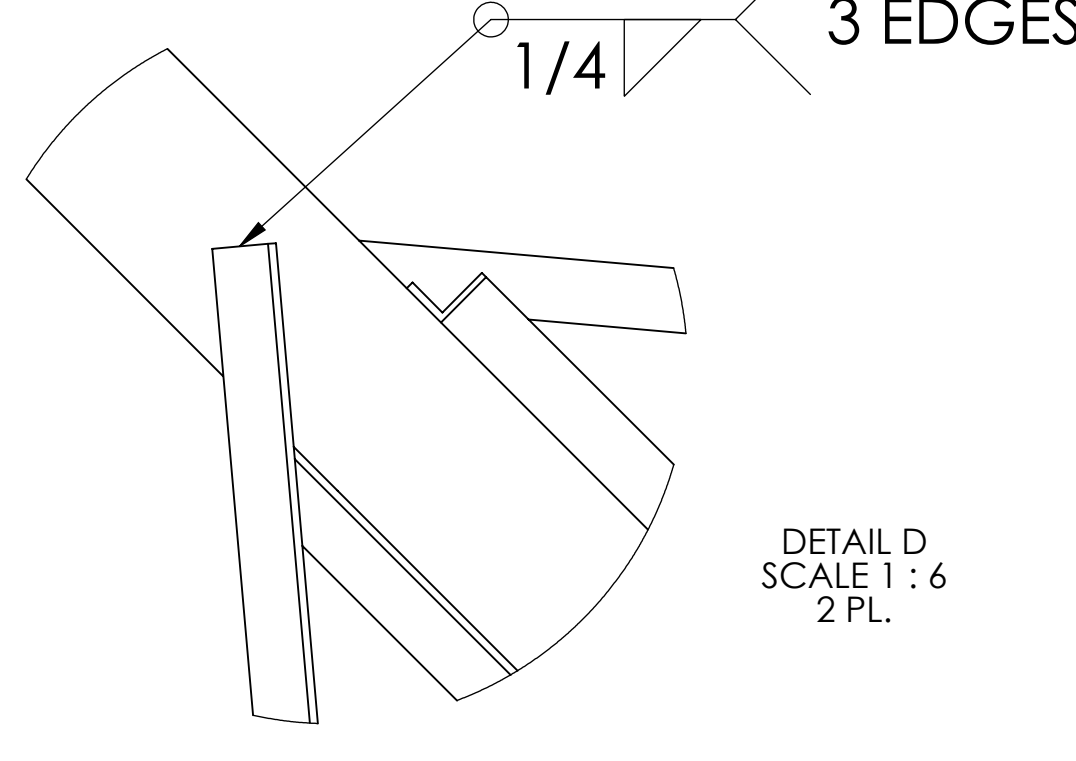
D2000439 Type	"A"	"B"
-11	30.7	3
-12	41.2	3
-13	51.7	3
-21	30.7	6
-22	41.2	6
-23	51.7	6



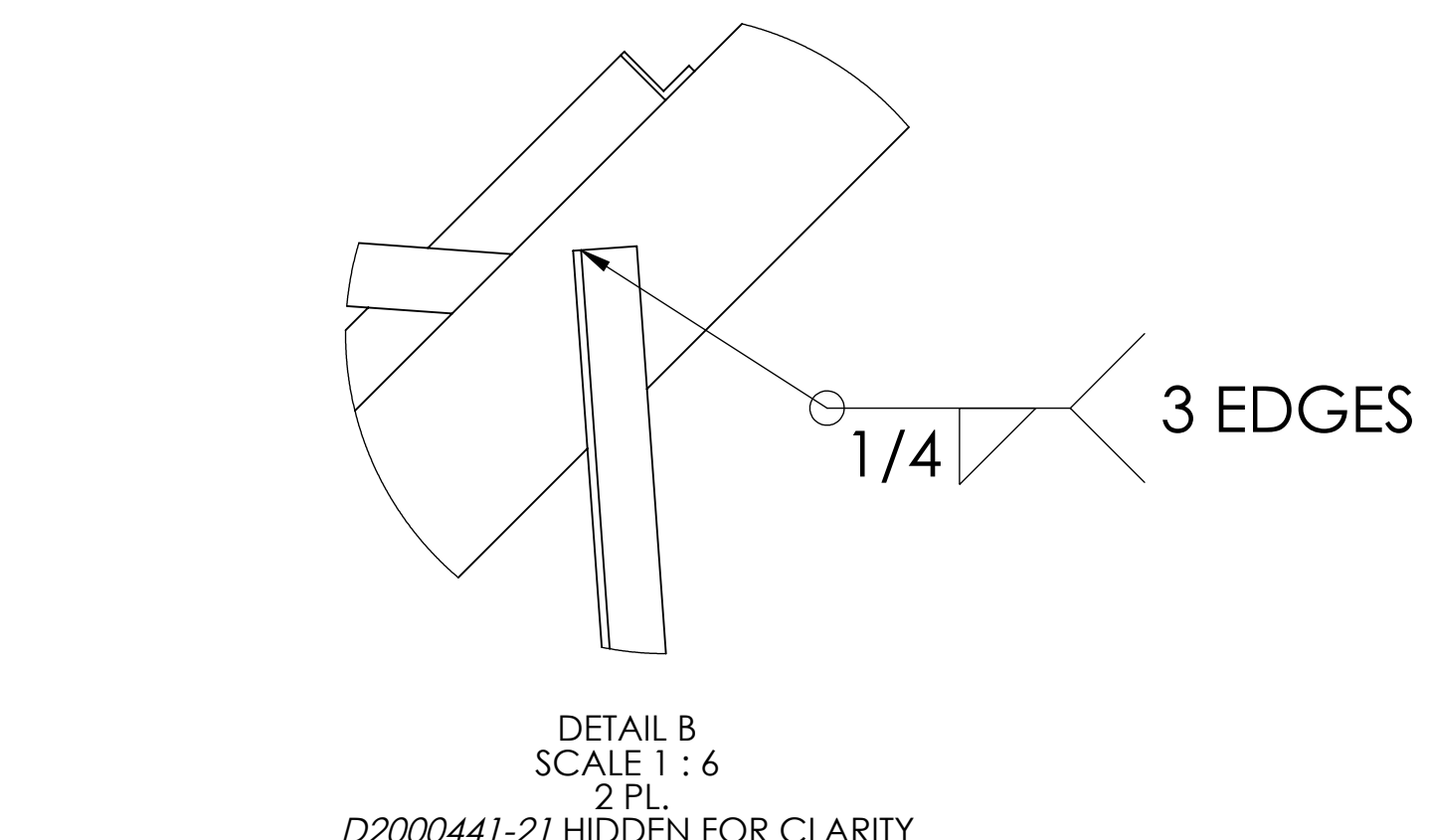
1/4 1/2 - 2



DETAIL D SCALE 1:6 2 PL.

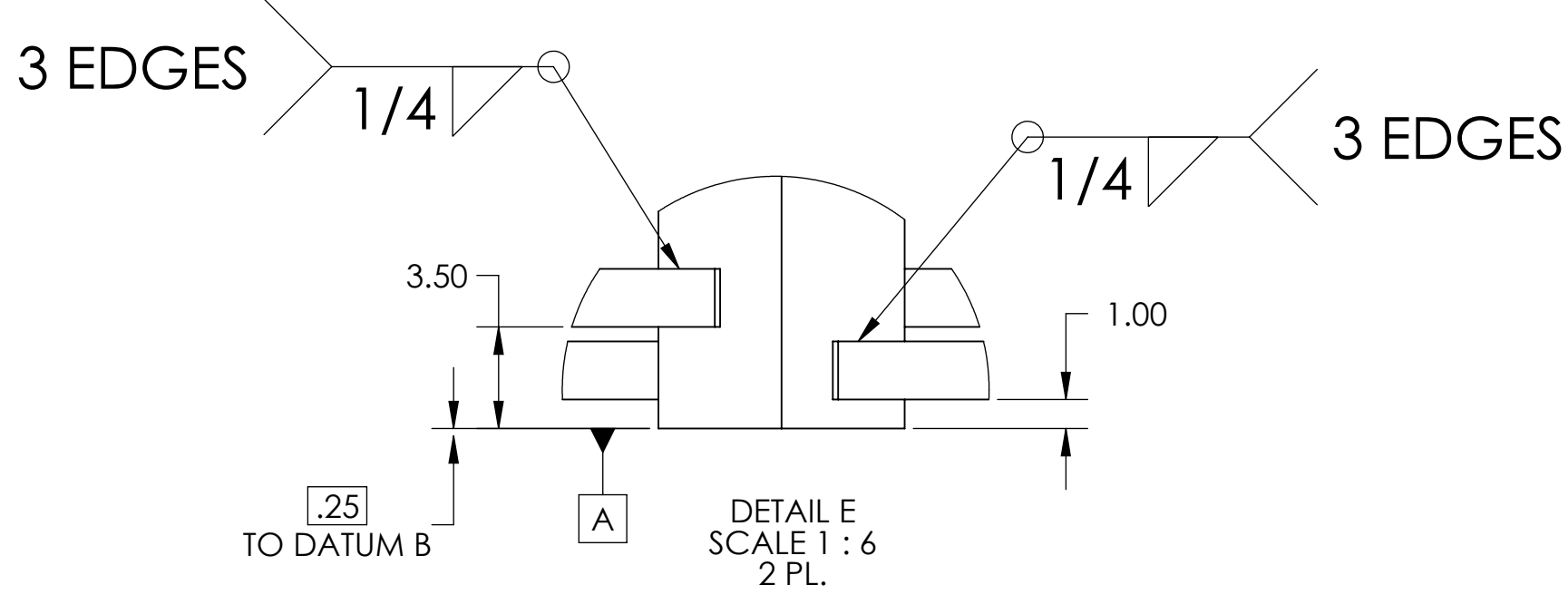


D2000440-103 ISO VIEW



DETAIL B SCALE 1:6 2 PL.

D2000441-21 HIDDEN FOR CLARITY



DETAIL E SCALE 1:6 2 PL.

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	-201/Type	-101/Type	-202/Type	-203/Type	-102/Type	-103/Type
11	D2000447	A+, VE, FC Tube Support, Vertical Stanchion End Plate	Plain Carbon Steel, 3/8" Plate	1	1	1	1	1	1
10	D2000442	2"-12 STEEL HEX NUT	Plain Carbon Steel, McMaster p/n 95303A631 or eq.	1	1	1	1	1	1
9	D2000443-11	A+, VE, FC Tube Support, Vertical Stanchion Stiffener, Brace, Upper Guided	Plain Carbon Steel, 2" x 1/4" Bar Stock	-	2	-	-	2	2
8	D2000443-12	A+, VE, FC Tube Support, Vertical Stanchion Stiffener, Brace, Lower Guided	Plain Carbon Steel, 2" x 1/4" Bar Stock	-	2	-	-	2	2
7	D2000443-21	A+, VE, FC Tube Support, Vertical Stanchion Stiffener, Brace, Upper Fixed	Plain Carbon Steel, 2" x 1/4" Bar Stock	2	-	2	2	-	-
6	D2000443-22	A+, VE, FC Tube Support, Vertical Stanchion Stiffener, Brace, Lower Fixed	Plain Carbon Steel, 2" x 1/4" Bar Stock	2	-	2	2	-	-
5	D2000441-22	A+, VE, FC Tube Support, Vertical Stanchion Stiffener, Fixed Lower	Plain Carbon Steel, 2" x 2" x 1/4" Wall Angle	2	-	2	2	-	-
4	D2000441-21	A+, VE, FC Tube Support, Vertical Stanchion Stiffener, Fixed Upper	Plain Carbon Steel, 2" x 2" x 1/4" Wall Angle	2	-	2	2	-	-
3	D2000441-12	A+, VE, FC Tube Support, Vertical Stanchion Stiffener, Guided Lower	Plain Carbon Steel, 2" x 2" x 1/4" Wall Angle	-	2	-	-	2	2
2	D2000441-11	A+, VE, FC Tube Support, Vertical Stanchion Stiffener, Guided Upper	Plain Carbon Steel, 2" x 2" x 1/4" Wall Angle	-	2	-	-	2	2
1	D2000439-13	A+, VE, FC Tube Support, Vertical Stanchion, Tall 3" SQ	Plain Carbon Steel	-	-	-	-	-	1
1	D2000439-12	A+, VE, FC Tube Support, Vertical Stanchion, Medium 3" SQ	Plain Carbon Steel	-	-	-	-	1	-
1	D2000439-23	A+, VE, FC Tube Support, Vertical Stanchion, Tall 6" SQ	Plain Carbon Steel	-	-	-	1	-	-
1	D2000439-22	A+, VE, FC Tube Support, Vertical Stanchion, Medium 6" SQ	Plain Carbon Steel	-	-	1	-	-	-
1	D2000439-11	A+, VE, FC Tube Support, Vertical Stanchion, Short 3" SQ	Plain Carbon Steel	-	1	-	-	-	-
1	D2000439-21	A+, VE, FC Tube Support, Vertical Stanchion, Short 6" SQ	Plain Carbon Steel	1	-	-	-	-	-

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)
 1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS.
 3. DO NOT SCALE FROM DRAWING.

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .X ± .2
 .XX ± .1
 ANGULAR ± 1°

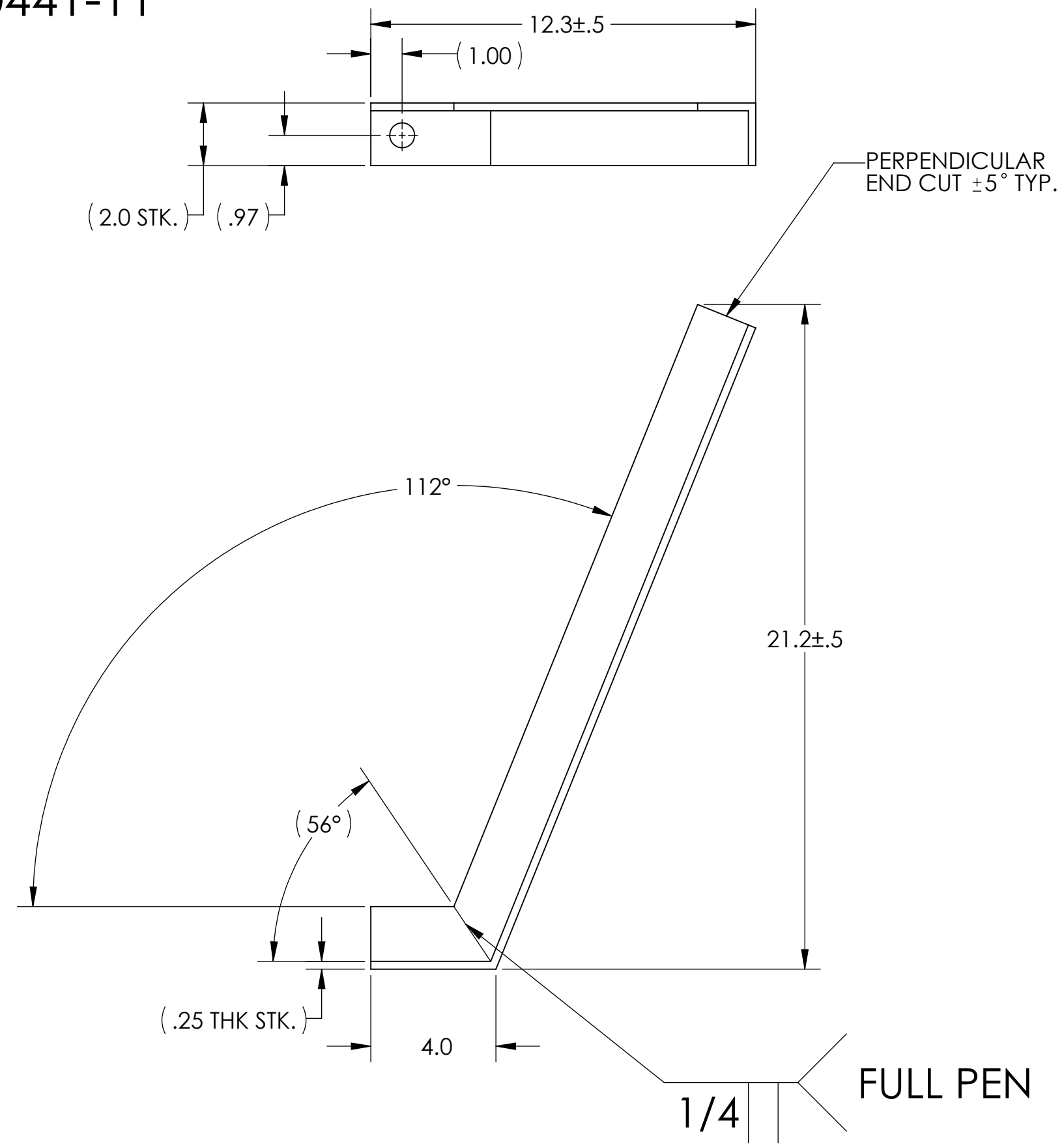
MATERIAL: N/A
 FINISH: μinch
 NEXT ASSY: D2000449, D2000450

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

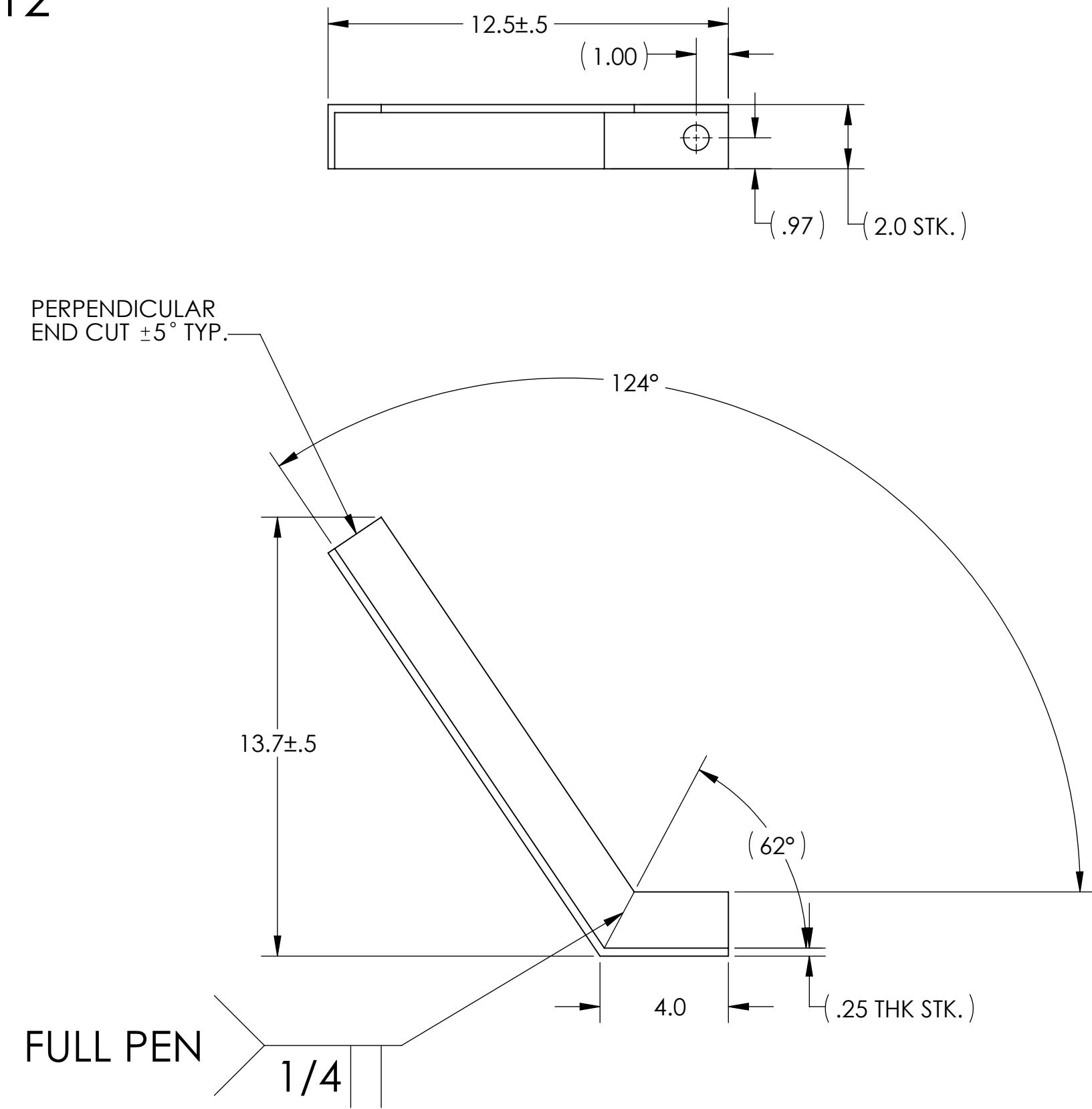
SYSTEM: A+ SUB-SYSTEM: VE

PART NAME		DESIGNER		DATE		SIZE		DWG. NO.		REV.	
A+, VE, FC Tube Support, Vertical Stanchion Weldment		D COYNE		15 OCT 2020		D		D2000440		v2	
DRAFTER		J VANOSKY		15 OCT 2020		D		D2000440		v2	
CHECKER		SEE DCC		SEE DCC		SCALE: 1:12		PROJECTION:		SHEET 1 OF 2	
APPROVAL		SEE DCC		SEE DCC		SCALE: 1:12		PROJECTION:		SHEET 1 OF 2	

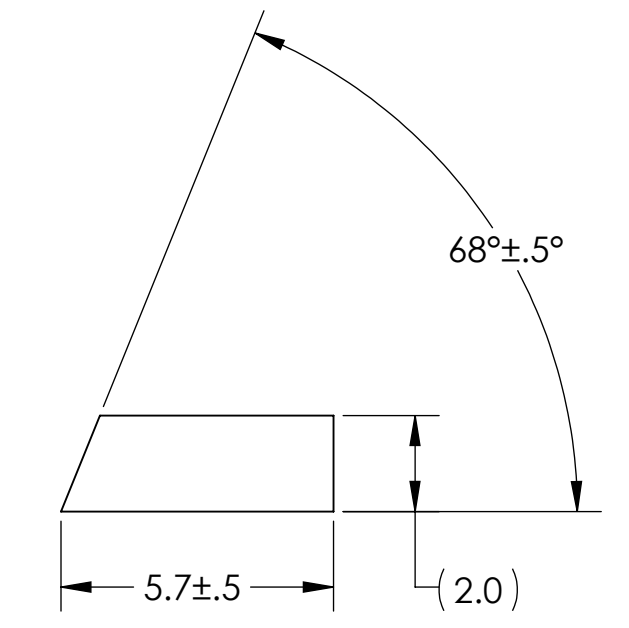
D2000441-11



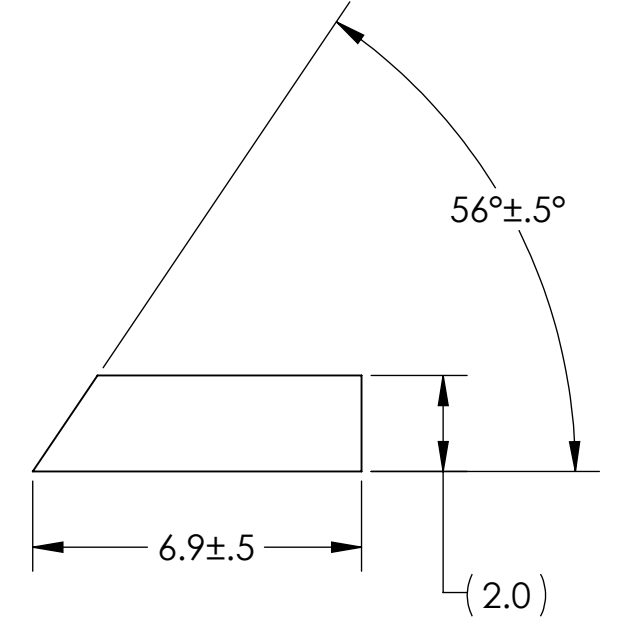
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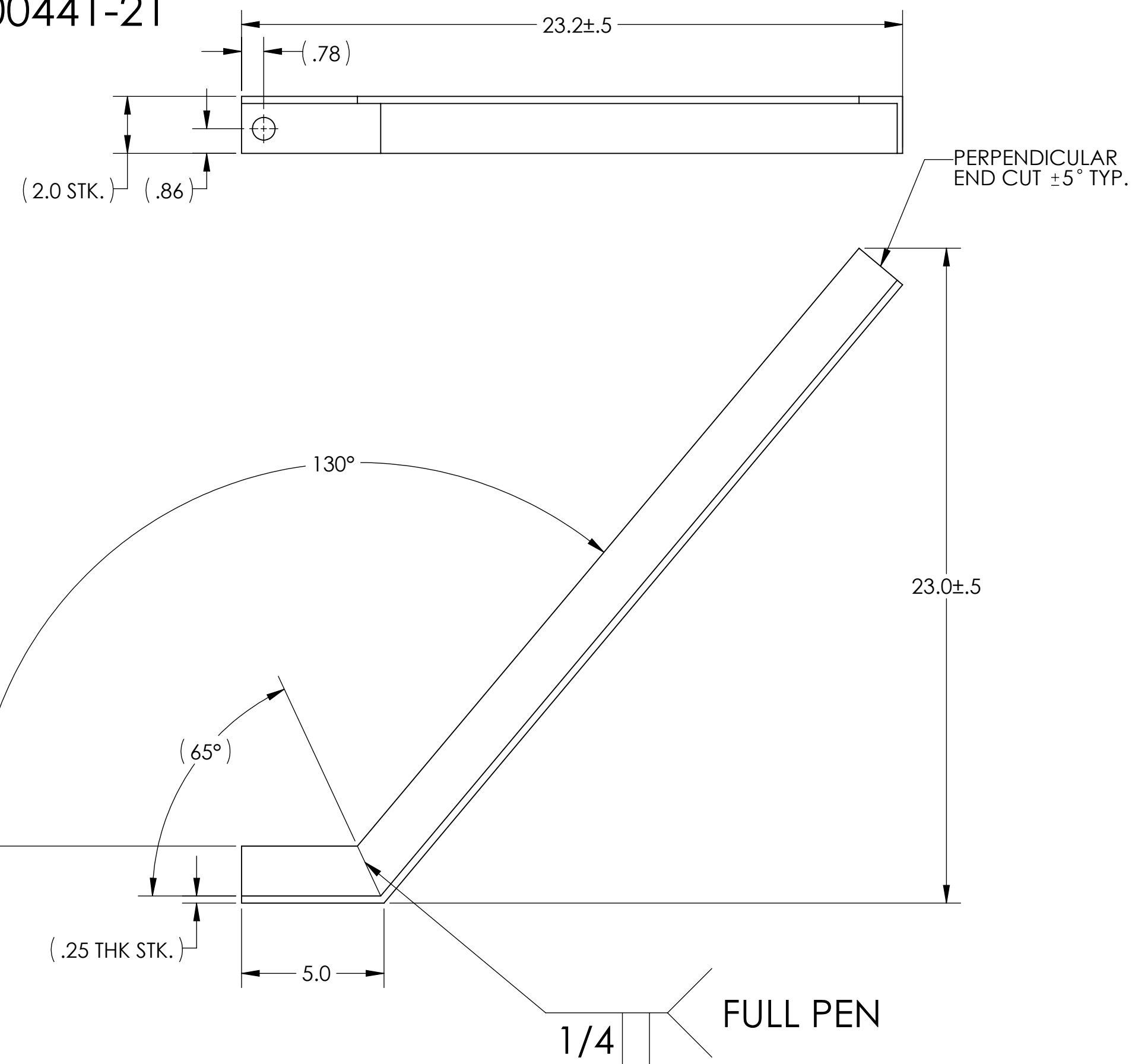
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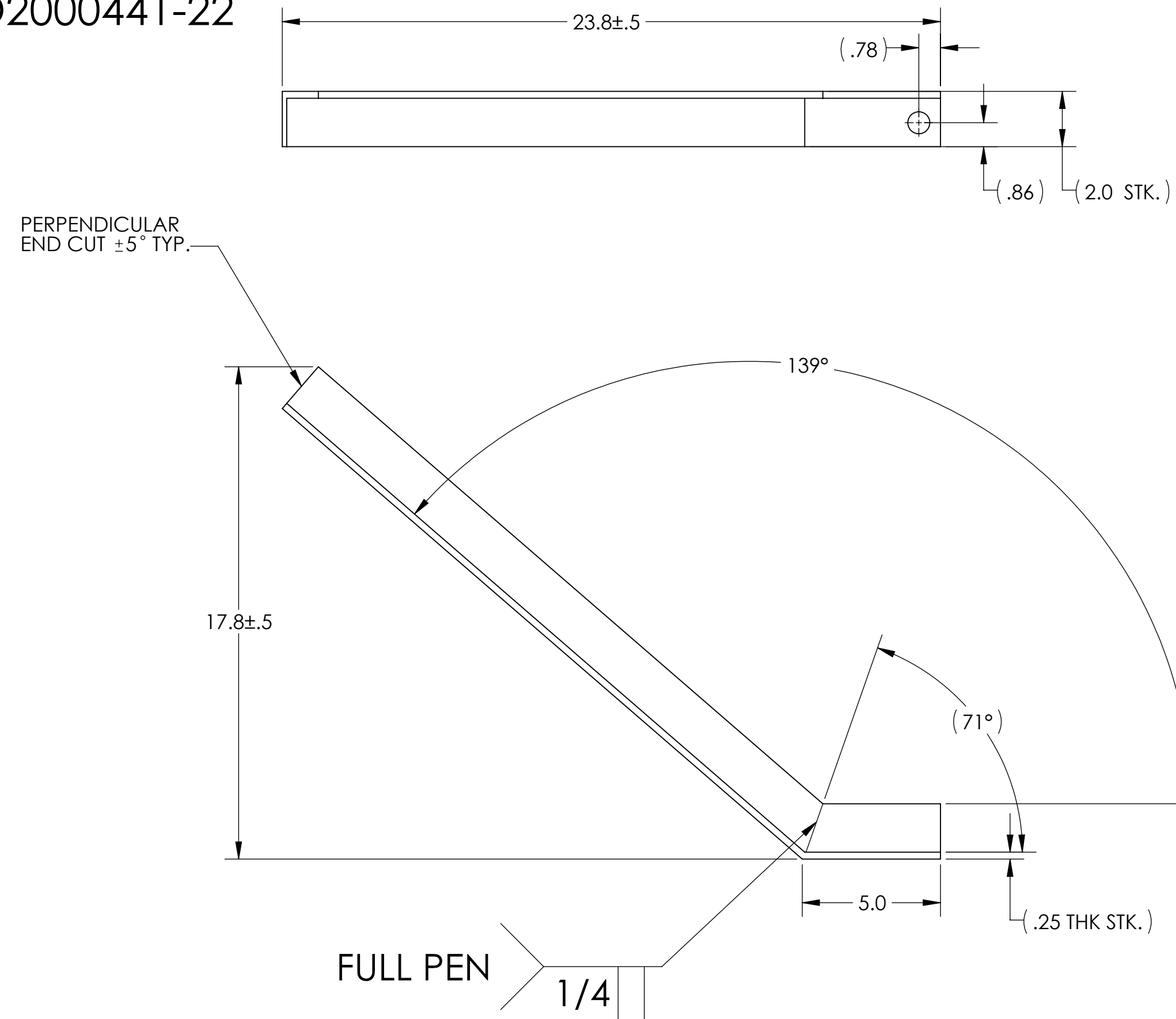
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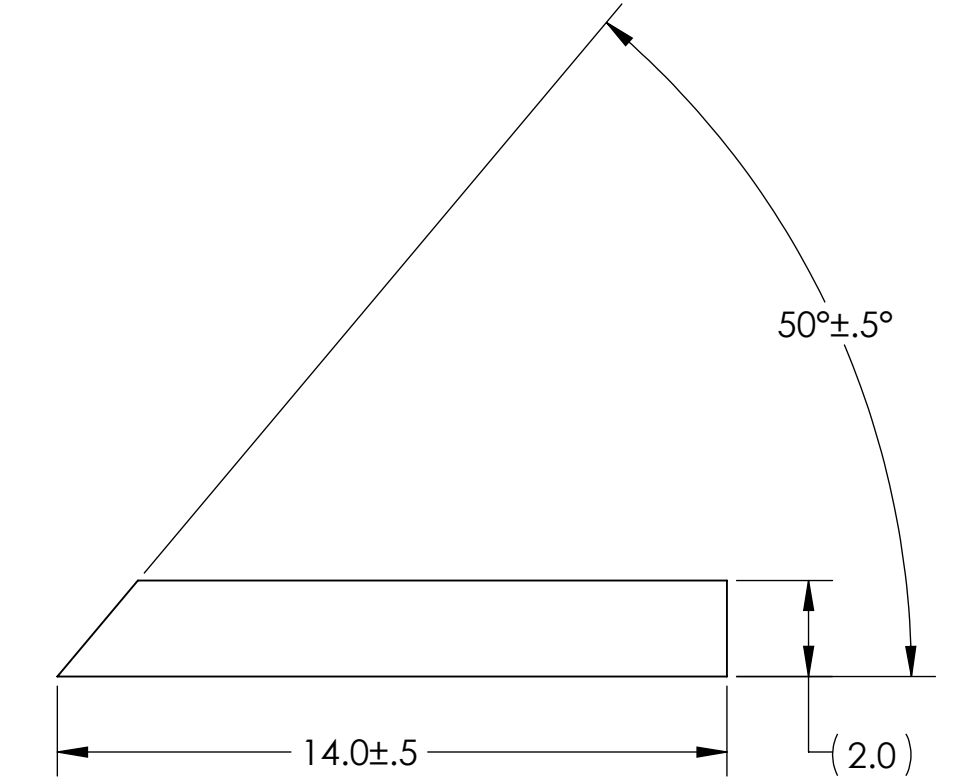
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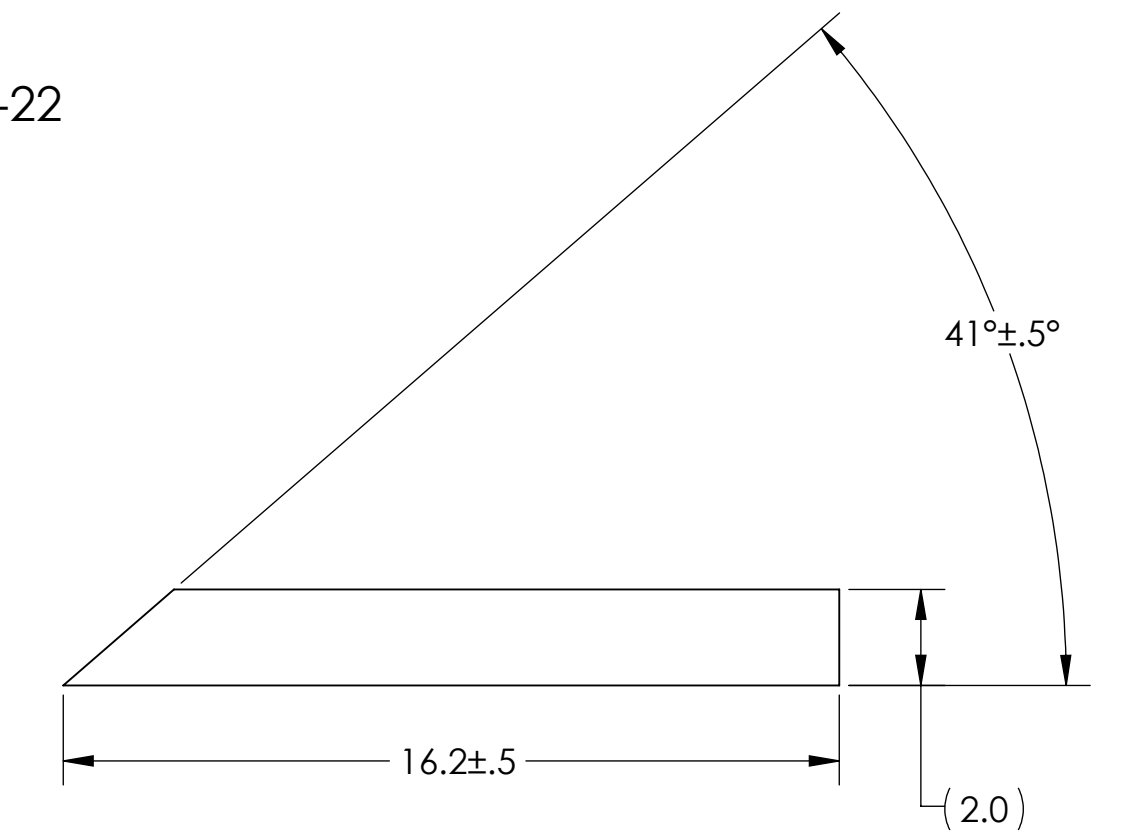
D2000441-22



D2000443-21



D2000443-22



LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE DWG. NO.	D2000440	v2
SCALE: 1:4	PROJECTION:	SHEET 2 OF 2