

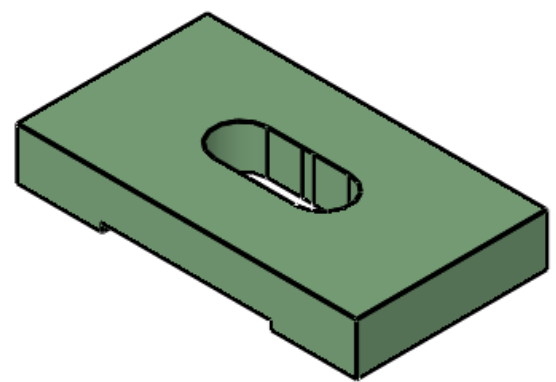
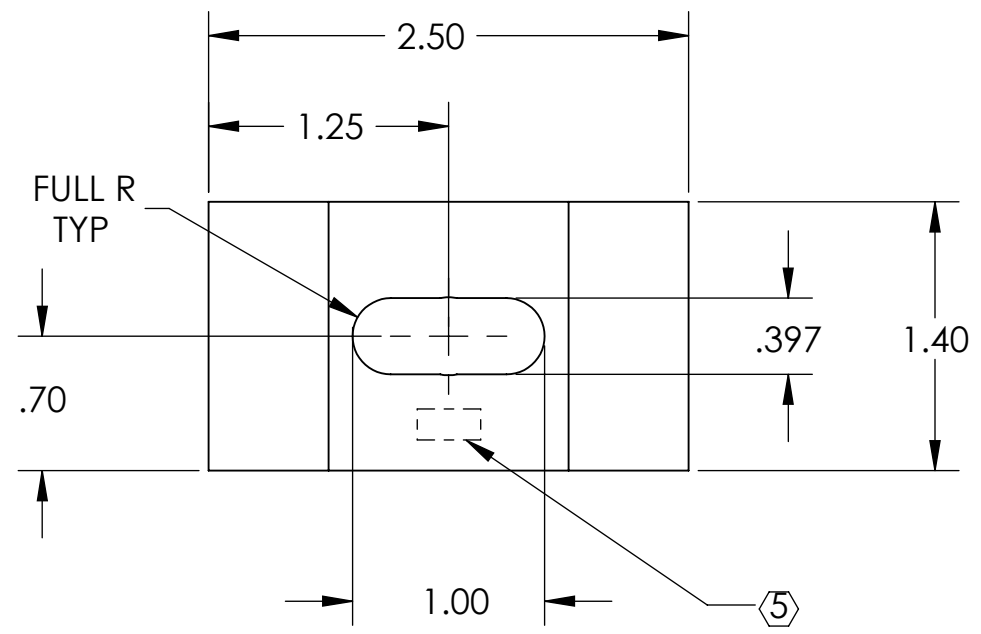
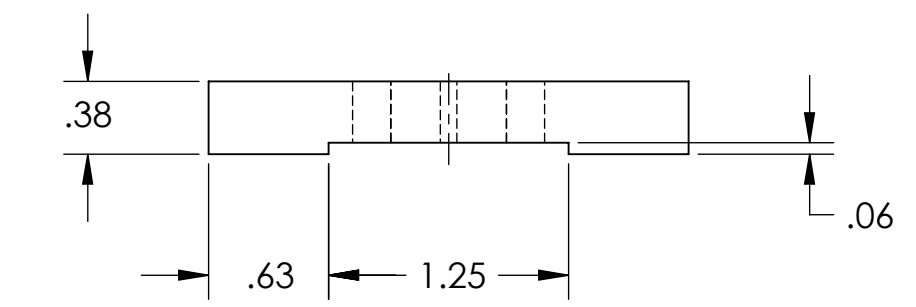
**D1002982\_PARTS AND QUANTITIES FOR D0901376 ARM CAVITY BAFFLE**

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REV	QTY	TOTAL QTY
1	<a href="#">D1001700</a>	SLC INTERFACE MOUNTING CLAMP	304 SSSL	v1	1	10
2	<a href="#">D1001826</a>	SLC ACB BALANCING WEIGHT	304 SSSL	v1	4	40
3	<a href="#">D1001621</a>	ARM CAVITY BAFFLE UPPER HINGE	6061-T6 Al	v1	1	10
4	<a href="#">D1001622</a>	ARM CAVITY BAFFLE LOWER HINGE	6061-T6 Al	v1	1	10
5	<a href="#">D1002173</a>	ARM CAVITY BAFFLE HINGE ASSY	ASSY	v1	1	10
6	<a href="#">D1001186</a>	SCREW #3/4-16 X 4 MODIFIED	18-8 SSSL	v1	1	10
7	<a href="#">D1002581</a>	SLC SUSPENSION ROD SUPPORT	6061-T6 Al	v1	1	10
8	<a href="#">D1002610</a>	SLC TUBE UP CONNECTOR PLATE	6061-T6 Al	v1	1	10
9	<a href="#">D1002612</a>	SLC UPPER TUBE	6061-T6 Al	v1	1	10
10	<a href="#">D1002582</a>	SLC BAFFLE TUBE UP ASSEMBLY	ASSY	v1	1	10
11	<a href="#">D1000930</a>	SLC MAGNET HOLDER STEEL PLATE	416 SSSL	v1	1	10
12	<a href="#">D1002618</a>	SLC TUBE LOWER CONNECTOR PLATE	6061-T6 Al	v1	1	10
13	<a href="#">D1000684</a>	SLC TUBE LOWER MTG PLATE	6061-T6 Al	v1	1	10
14	<a href="#">D1001009</a>	ARM CAVITY BAFFLE LO TUBE	6061-T6 Al	v1	1	10
15	<a href="#">D1001007</a>	ACB TUBE LO ASSY	ASSY	v1	1	10
16	<a href="#">D1001120</a>	SLC EARTHQUAKE STOP RING	6061-T6 Al	v1	2	20
17	<a href="#">D1000909</a>	SLC COPPER PLATE	COPPER	v1	1	10
18	<a href="#">D1000929</a>	SLC COPPER SUPPORT PLATE	6061-T6 Al	v1	1	10
19	<a href="#">D1002617</a>	SLC DAMPING TUBE LOWER PLATE	6061-T6 Al	v1	1	10
20	<a href="#">D1002561</a>	SLC DAMPING 8 DIA TUBE	6061-T6 Al	v1	1	10
21	<a href="#">D1002560</a>	SLC DAMPING TUBE TOP PLATE	6061-T6 Al	v1	1	10
22	<a href="#">D1002563</a>	SLC DAMPING 8 DIA TUBE ASSEMBLY	ASSY	v1	1	10
23	<a href="#">D1002564</a>	SLC EDDY CURRENT DAMPING ASSY	ASSY	v1	1	10
24	<a href="#">D1002340</a>	SLC ACB SUSPENSION ROD	316 SSSL	v1	1	10
25	<a href="#">D1002844</a>	SLC ACB BLADE CLAMP	6061-T6 Al	v1	1	10
26	<a href="#">D1001138</a>	SLC ACB INTERFACE MTG PLATE	304 SSSL	v1	1	10
27	<a href="#">D1002608</a>	SLC ACB SUSPENSION BLADE	MARAGC250	v1	1	10
28	<a href="#">D1002609</a>	SLC BLADE MOUNTING BRACKET	6061-T6 Al	v1	1	10
29	<a href="#">D1001005</a>	ARM CAVITY BAFFLE BLADE ASSY	ASSY	v1	1	10
30	<a href="#">D1001011</a>	ARM CAVITY BAFFLE ASSY	ASSY	v1	1	10
31	<a href="#">D1001365</a>	ARM BAFFLE MIDDLE REINFORCING	Enamel A424	v1	2	20
32	<a href="#">D1001026</a>	ARM CAVITY BAFFLE UP LEAF	Enamel A424	v1	1	10
33	<a href="#">D1001027</a>	ARM CAVITY BAFFLE LOWER LEAF	Enamel A424	v1	1	10
34	<a href="#">D1001363</a>	ACB SIDE REINFORCING HATSECTION	Enamel A424	v1	2	20
35	<a href="#">D1000976</a>	ARM CAVITY BAFFLE CTR SKIN	Enamel A424	v1	1	10
36	<a href="#">D1000975</a>	ARM CAVITY BAFFLE BTM SKIN	Enamel A424	v1	1	10
37	<a href="#">D1000974</a>	ARM CAVITY BAFFLE TOP SKIN	Enamel A424	v1	1	10
38	<a href="#">D1000973</a>	ARM CAVITY BAFFLE SKIN	Enamel A424	v1	1	10
39	<a href="#">D1000977</a>	ARM CAVITY BAFFLE BOX ASSY	ASSY	v1	1	10
40	<a href="#">D0901376</a>	ARM CAVITY BAFFLE FINAL ASSY	ASSY	v1	1	10
41	<a href="#">D1003025</a>	QPD HOUSING	PEEK	vXX	8	80
42	<a href="#">D1003014</a>	QPD BACK PEEK	PEEK	vXX	8	80
43	<a href="#">D1003028</a>	QPD PCB SUPPORT	PEEK	vXX	8	80
44	<a href="#">D1003024</a>	QPD FRONT PEEK INSULATOR	PEEK	vXX	8	80

**NOTES CONTINUED:**  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

REV.	DATE	DCN #	DRAWING TREE #
1	10 SEP 2010	E1000285	-
-	-	-	-
-	-	-	-

6. APPROXIMATE WEIGHT = .145 LB.  
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.



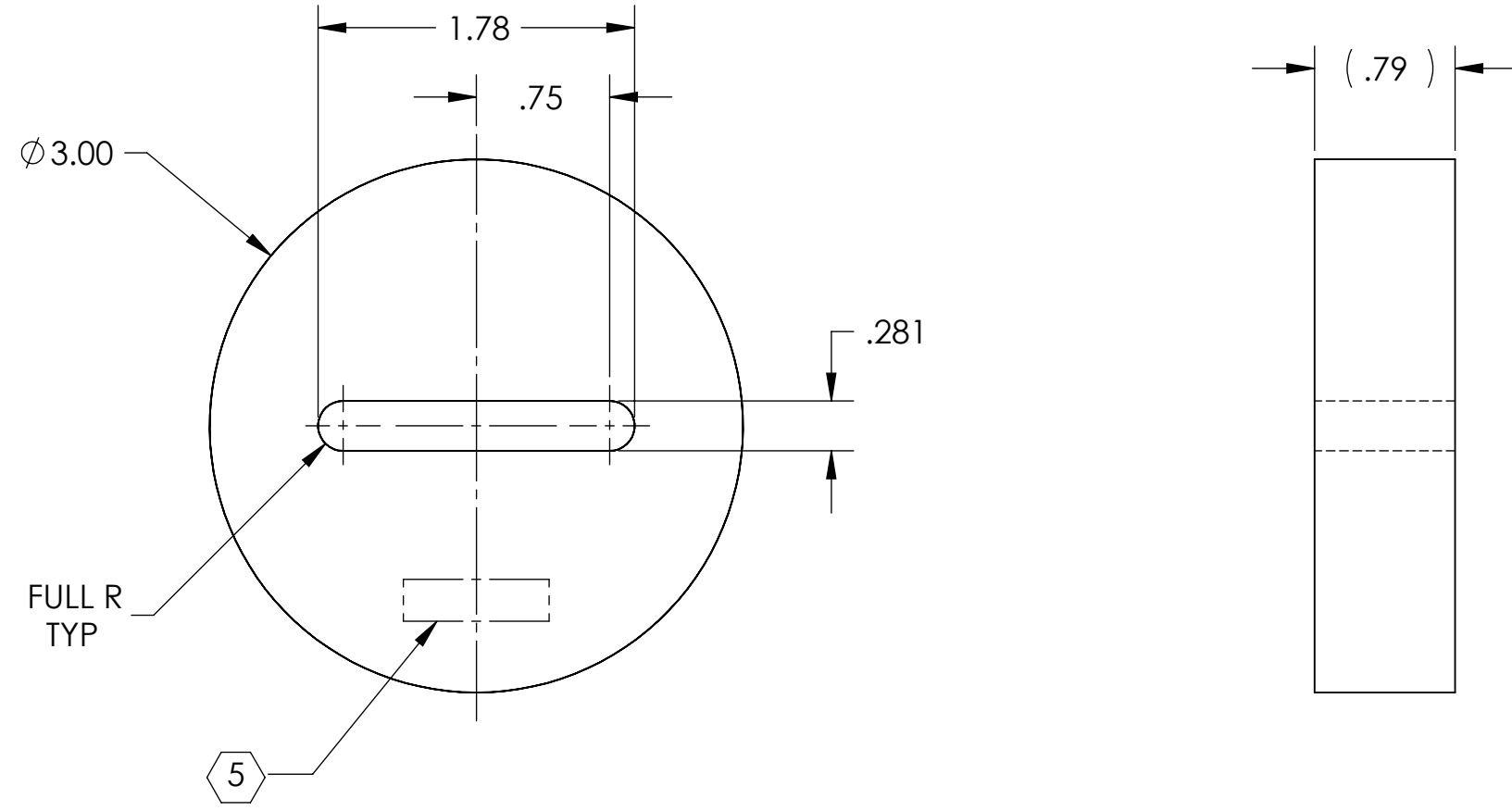
D1001700\_AdlIGO\_AOS\_SLC INTERFACE MOUNTING CLAMP, PART PDM REV: X-010, DRAWING PDM REV: X-008

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± 1.0°	
MATERIAL	304 SSSL
FINISH	63 μinch

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
ADVANCED LIGO		SLC INTERFACE MOUNTING CLAMP	
SYSTEM	SUB-SYSTEM	DESIGNER	DATE
ADVANCED LIGO	AOS	N.Nguyen	10 SEP 2010
NEXT ASSY	D0901376	DRAFTER	DATE
		N.NGUYEN	10 SEP 2010
		CHECKER	DATE
		M. SMITH	10 NOV 2010
		APPROVAL	DATE
		D. COYNE	20 NOV 2010
SIZE	DWG. NO.	REV.	
B	D1001700	v1	
SCALE: 1:1	PROJECTION:	SHEET 1 OF 1	

**NOTES CONTINUED:**  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.  
 EXAMPLE (PART): 001-v1  
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD  
 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 SEP 2010	E1000285	



WEIGHT= 1.50 LBS

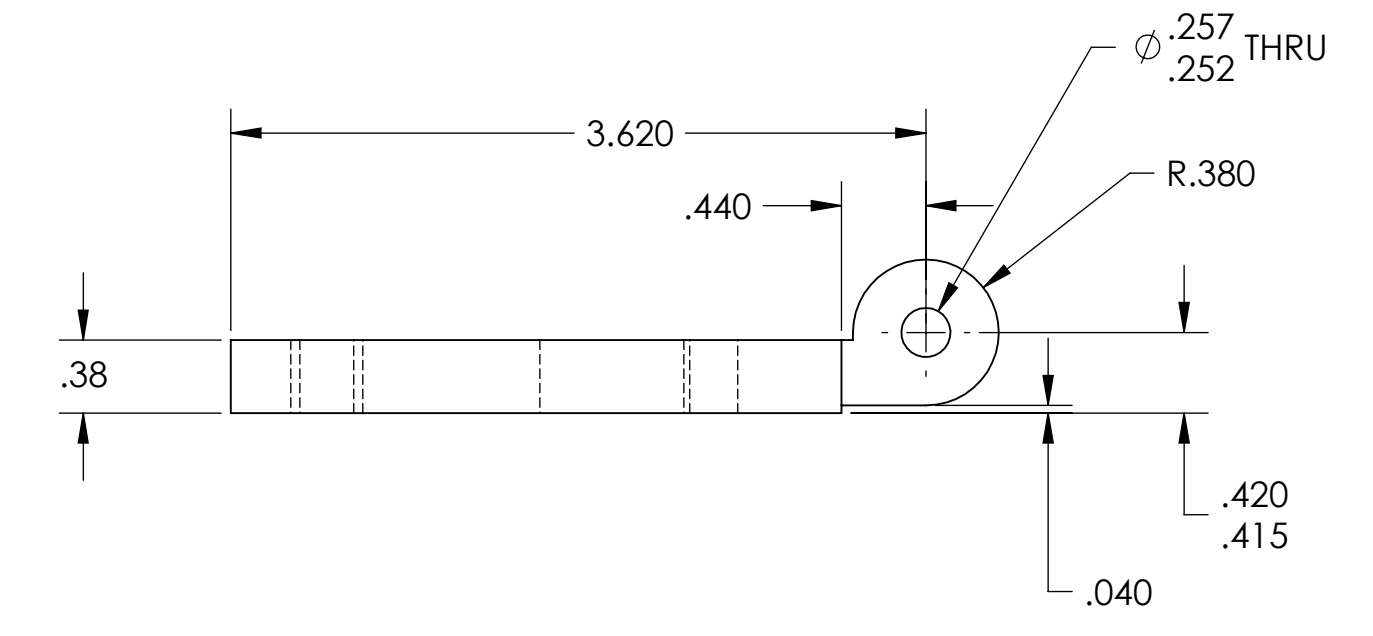
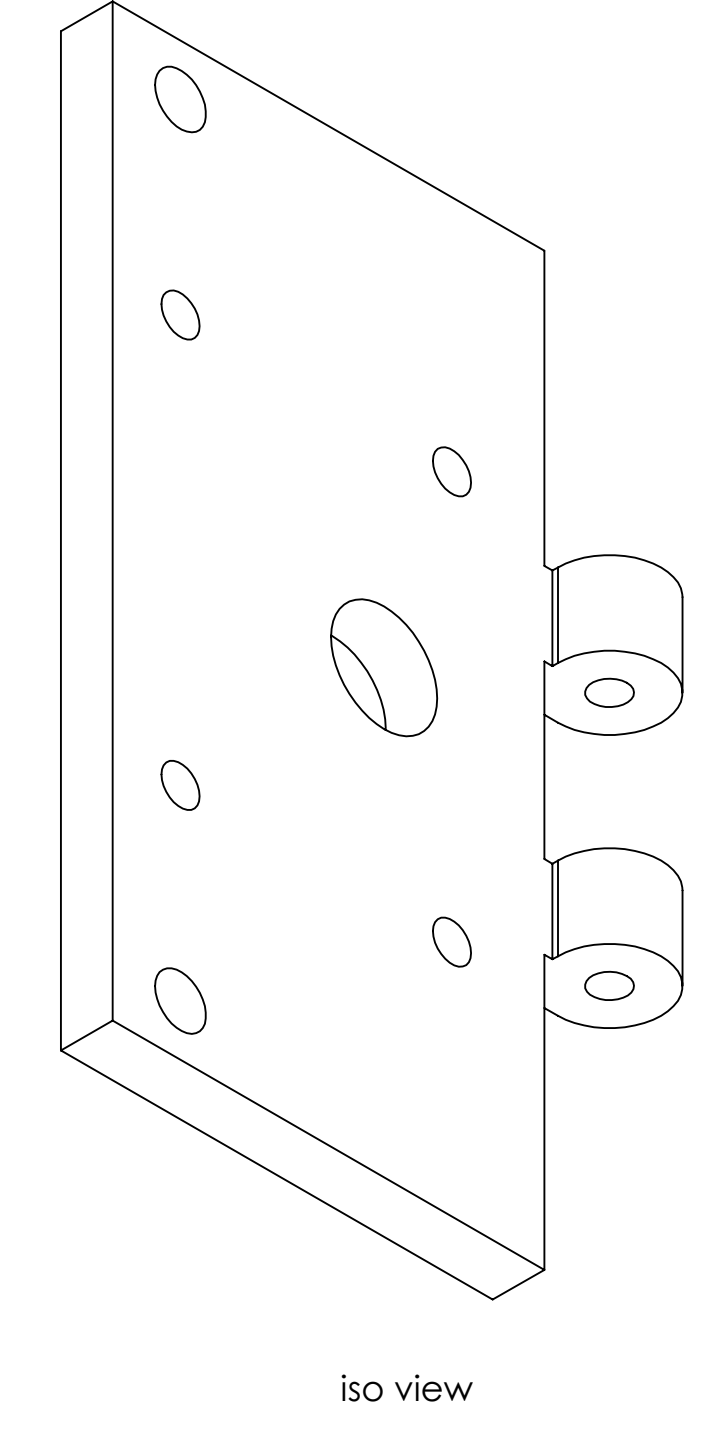
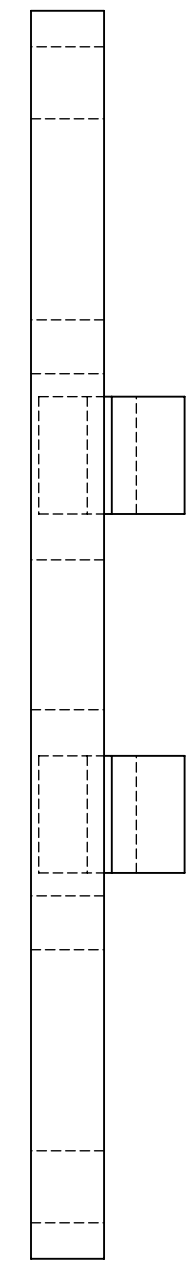
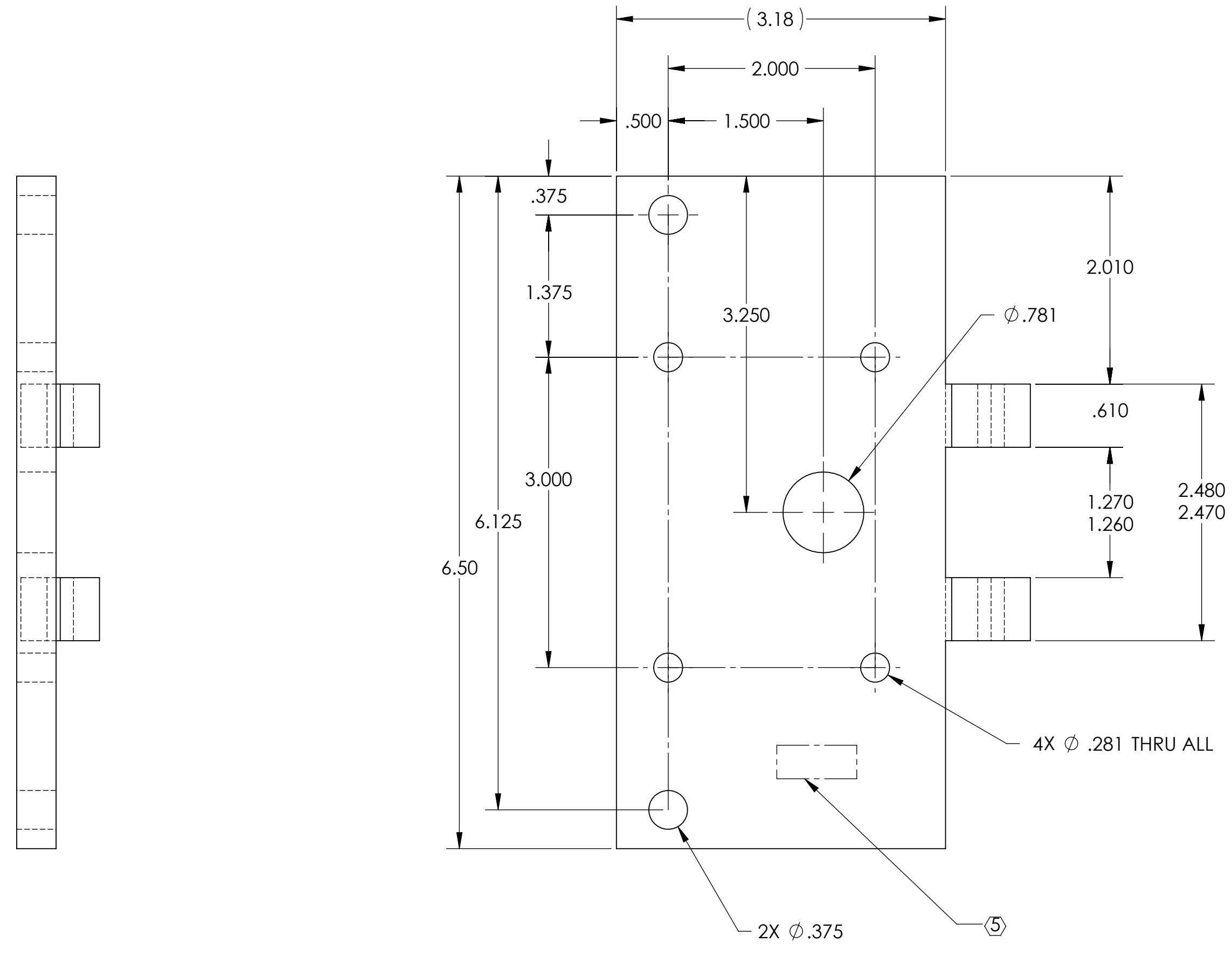
D1001826\_AdlIGO\_AOS\_SLC\_ACB Blancing Weight, PART PDM REV: X-008, DRAWING PDM REV: X-005

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		ADVANCED LIGO		SLC ACB BALANCING WEIGHT	
TOLERANCES: .XX ± .03 .XXX ± .010		MATERIAL 304 SSTL		SUB-SYSTEM AOS		SIZE DWG. NO. B D1001826	
ANGULAR ± 0.5°		FINISH 63 μinch		NEXT ASSY D0901376		REV. v1	
				DESIGNER N. Nguyen 21 Jul 2010		SCALE: 1:1	
				DRAFTER N. Nguyen 21 Jul 2010		PROJECTION:	
				CHECKER M. Smith 10 NOV 2010		SHEET 1 OF 1	
				APPROVAL D. Coyne 20 NOV 2010			

**NOTES CONTINUED:**  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 AUG 2010	E1000285	-
-	-	-	-
-	-	-	-



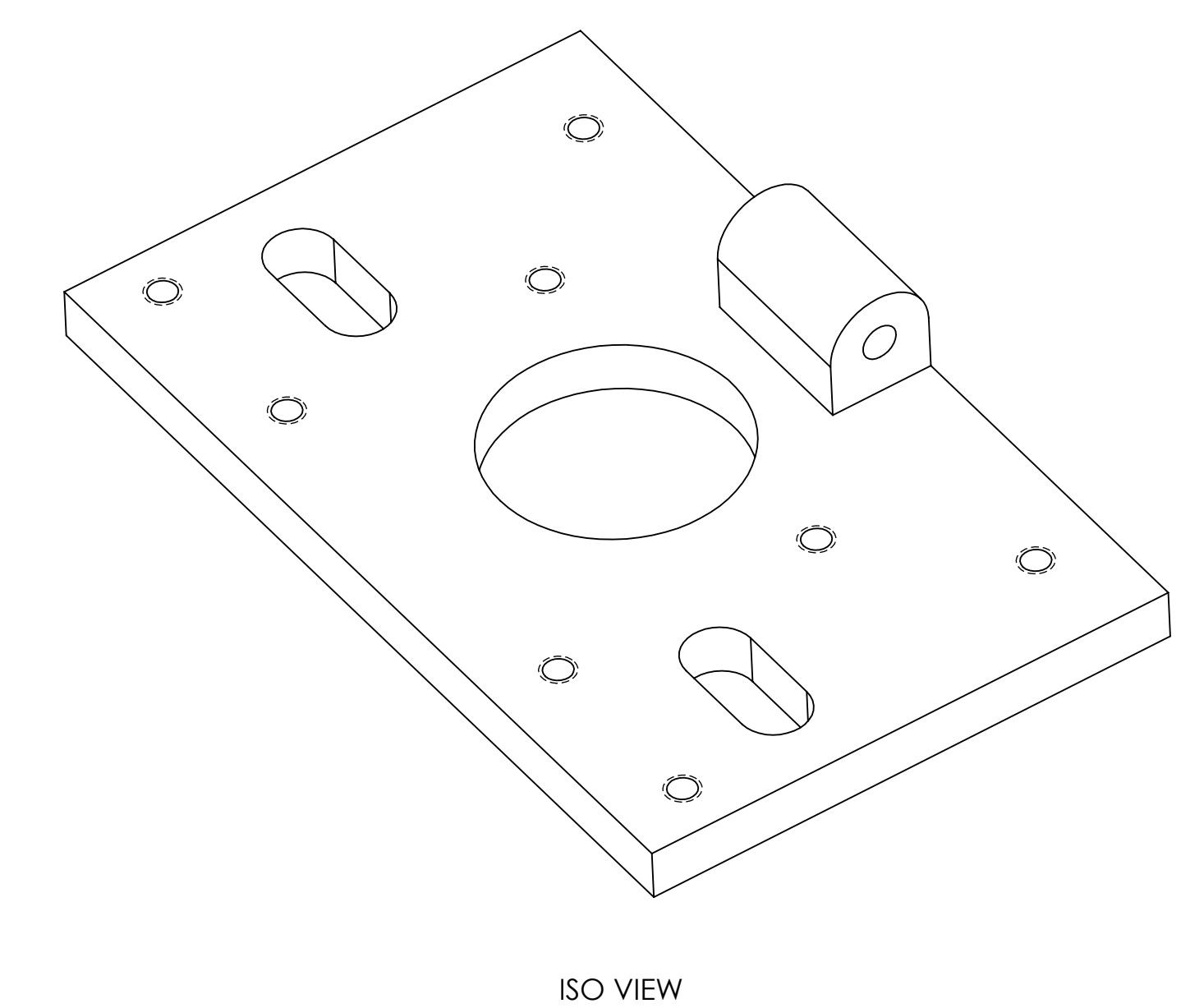
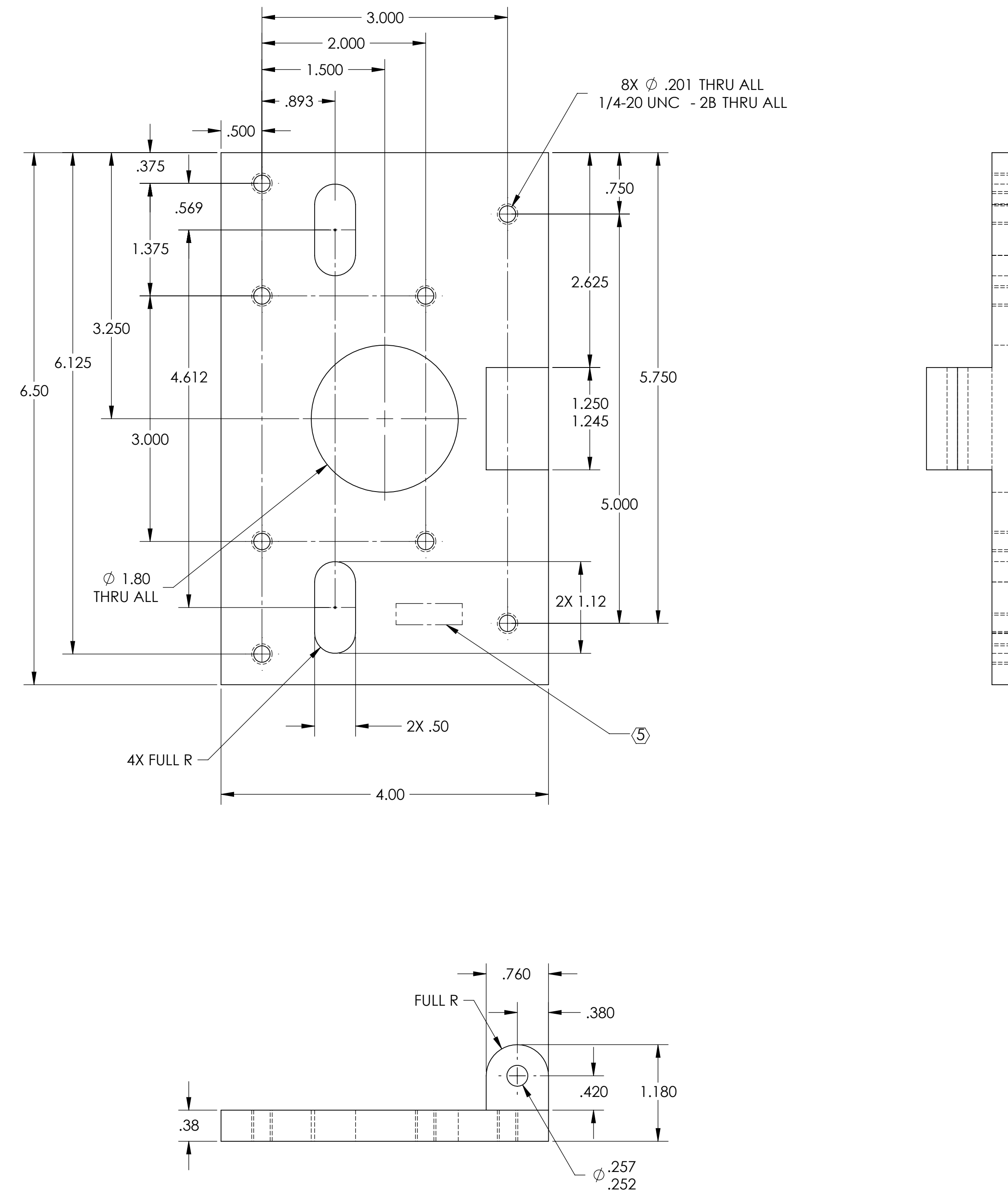
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME					
DIMENSIONS ARE IN INCHES				ADVANCED LIGO		ARM CAVITY BAFFLE UPPER MOUNTING HINGE					
TOLERANCES: .XX ± .01 .XXX ± .005				AOS		DESIGNER	N.Nguyen	12 AUG 2010	SIZE	DWG. NO.	REV.
ANGULAR ± 0.5°				63 μinch		DRAFTER	TG. NGUYEN	18 OCT 2010	D	D1001621	v1
MATERIAL 6061-T6 Al				NEXT ASSY D1002173		CHECKER	M. SMITH	10 NOV 2010	SCALE: 1:1	PROJECTION:	SHEET 1 OF 1
						APPROVAL	D. COYNE	20 NOV 2010			

D1001621\_AdrLIGO\_AOS\_ARM\_Baffle Upper Mounting Hinge. PART PDM REV: X-005. DRAWING PDM REV: X-007

NOTES CONTINUED:  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 AUG 2010	E1000285	



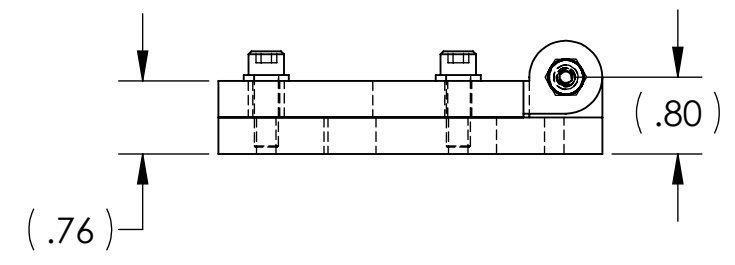
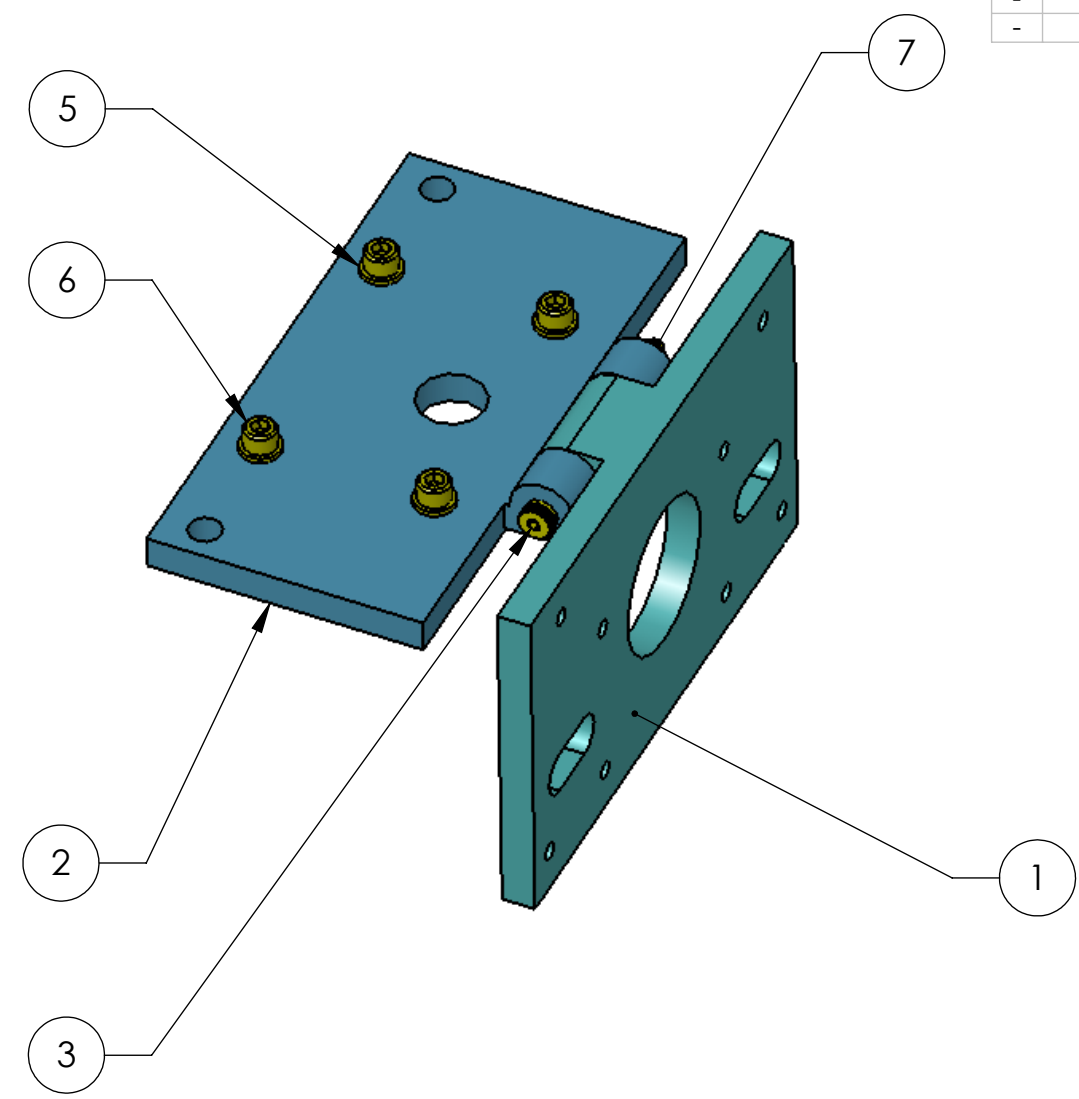
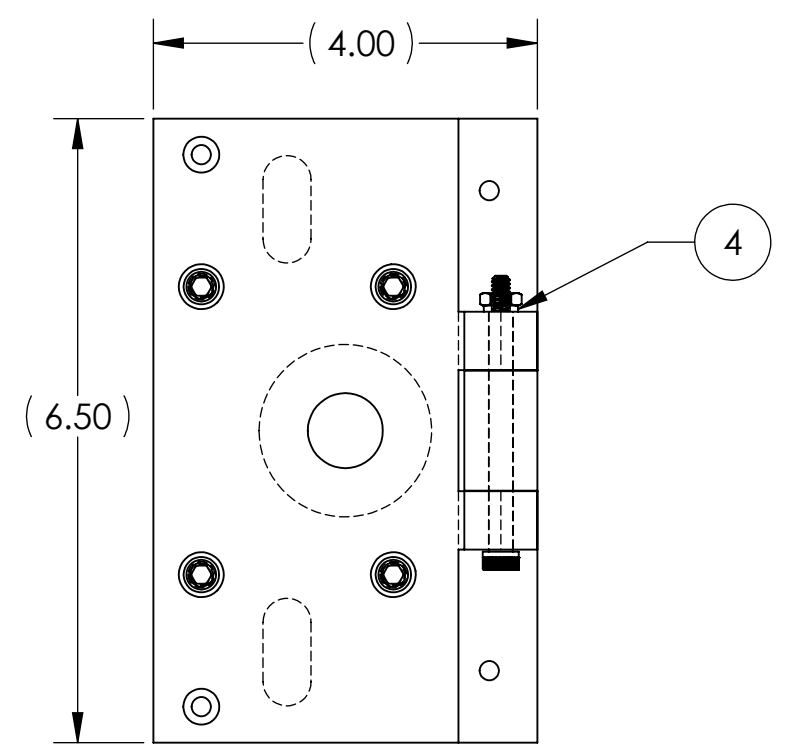
ISO VIEW

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME			
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 0.5°		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		<b>ARM CAVITY BAFFLE LOWER MTG HINGE</b>			
MATERIAL 6061-T6 Al		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D1002173		DESIGNER N.Nguyen		DATE 02 Jul 2010		SIZE D	
		DRAFTER TG. NGUYEN		DATE 18 OCT 2010		DWG. NO. <b>D1001622</b>	
		CHECKER M. SMITH		DATE 10 NOV 2010		REV. v1	
		APPROVAL D. COYNE		DATE 20 NOV 2010		SCALE: 1:1 PROJECTION:	
						SHEET 1 OF 1	

D1001622\_AulIGO\_AOS\_31C\_ARM\_Cavity\_Baffle\_Lower\_Mounting\_Hinge\_PART\_PDM\_REV-X-012\_DRAWING\_PDM\_REV-X-010

D1002173\_AdlIGO\_s1c\_ARM\_CavityBaffleHinge Assy, PART PDM REV: X-019, DRAWING PDM REV: X-009

REV.	DATE	DCN #	DRAWING TREE #
v1	01 SEPT 2010	E1000285	E1000661
-	-	-	-
-	-	-	-



7	N-1024-A	HEX NUT, #10-24, UC COMP	18-8 SSTL	1	1	2
6	92196A540	SCREW, SHCS # 0.25-20 UNC-2A X .75, MCMASTER	18-8 SSTL	4	2	6
5	90945A761	WASHER, FLAT, 1/4 (MCMASTER OR NAS 620-C416)	300 SSTL	4	2	6
4	90945A740	WASHER, FLAT, #10 (MCMASTER OR NAS 620-C10 )	300 SSTL	1	1	2
3	90298A550	SHOULDER SCREW #10-24, .25 D X 2.5, MCMASTER	18-8 SSTL	1	1	2
2	D1001621	ARM CAVITY BAFFLE UPPER MOUNTING HINGE	6061-T6 Al	1		1
1	D1001622	ARM CAVITY BAFFLE LOWER MTG HINGE	6061-T6 Al	1		1
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY	SPARE	TOTAL

**PARTS LIST**

<p><b>NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)</b></p> <p>1. INTERPRET DRAWING PER ASME Y14.5-1994.                  2. REMOVE ALL SHARP EDGES, R.02 MIN.                  3. DO NOT SCALE FROM DRAWING.                  4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.</p>		<p><b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY                  MASSACHUSETTS INSTITUTE OF TECHNOLOGY</p>		<p><b>PART NAME</b>                  ARM CAVITY BAFFLE HINGE ASSY</p>	
<p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES:                  .XX ±                  .XXX ±</p> <p>ANGULAR ± °</p>	<p><b>MATERIAL</b>                  N/A</p>	<p><b>FINISH</b>                  N/A</p>	<p><b>SYSTEM</b>                  ADVANCED LIGO</p>	<p><b>SUB-SYSTEM</b>                  AOS</p>	<p><b>DESIGNER</b> N.Nguyen 16 Aug 2010  <b>DRAFTER</b> TQ. NGUYEN 18 OCT 2010  <b>CHECKER</b> M. Smith 10 NOV 2010  <b>APPROVAL</b> D. Coyne 20 NOV 2010</p>
<p><b>NEXT ASSY</b>                  D0901376</p>			<p><b>SIZE DWG. NO.</b>                  B D1002173</p>		<p><b>REV.</b>                  v1</p>
			<p><b>SCALE:</b> 1:2</p>		<p><b>PROJECTION:</b> </p>
					<p><b>SHEET 1 OF 1</b></p>

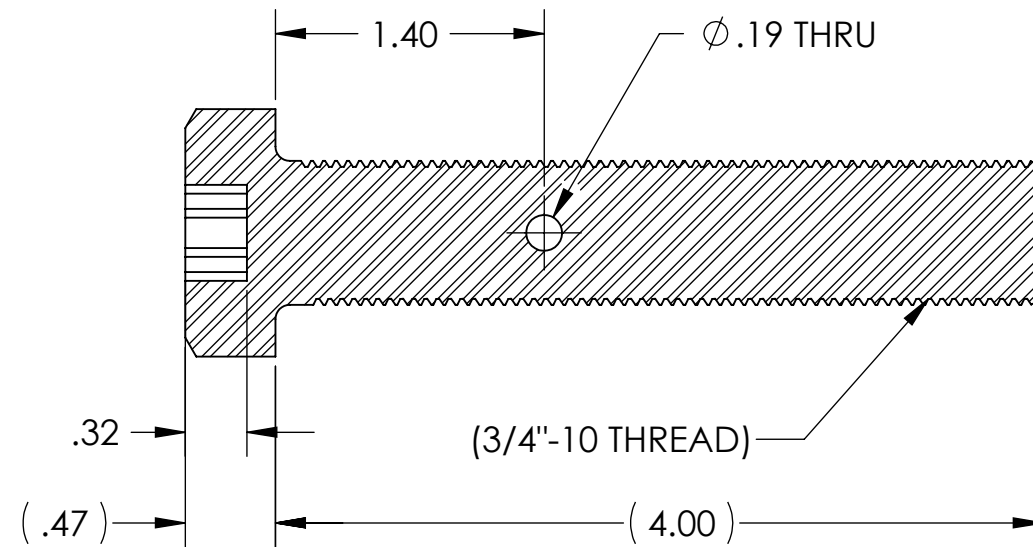
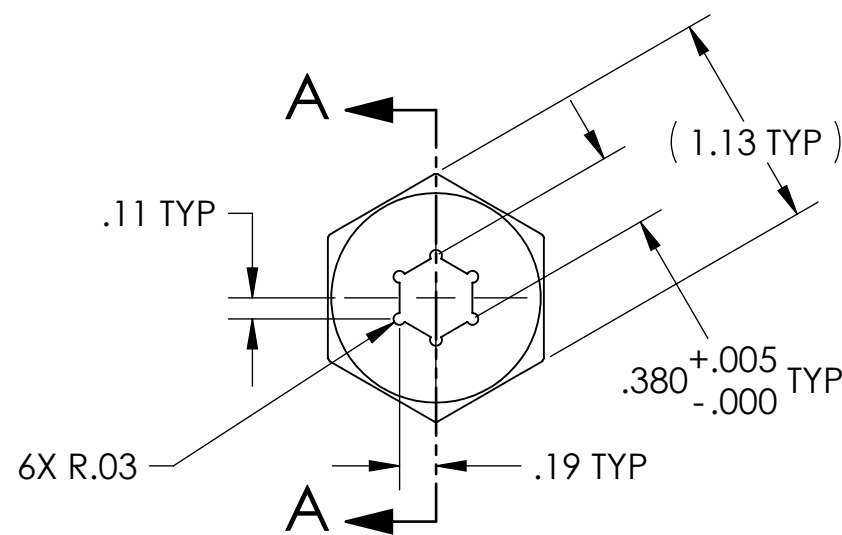
NOTES CONTINUED:

5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.  
 EXAMPLE (PART): 001-v1  
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

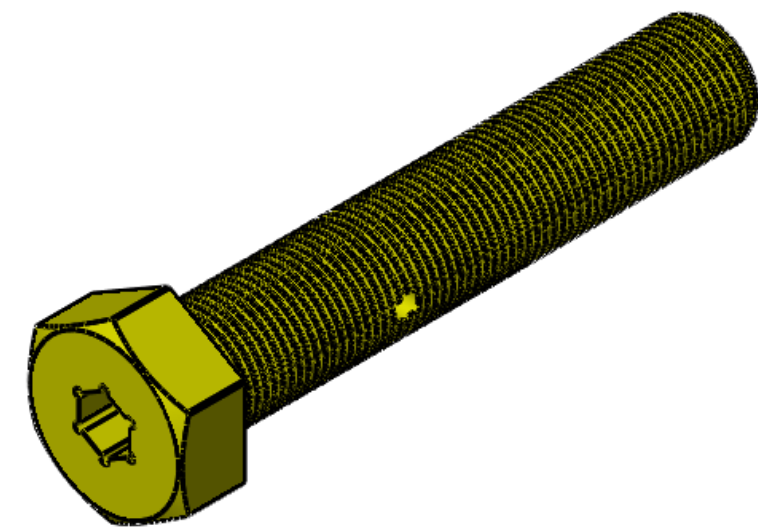
7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

8. PART TO BE MADE FROM McMASTER CARR P/N 92240A849

REV.	DATE	DCN #	DRAWING TREE #
v1	19 OCT 2010	E1000285	-
-	-	-	-
-	-	-	-



SECTION A-A



D1001186\_AdlIGO\_AOS\_Screw .75-10x4.0\_92240A849, PART PDM REV: X-004, DRAWING PDM REV: X-005

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES		1. INTERPRET DRAWING PER ASME Y14.5-1994.	
TOLERANCES:		2. REMOVE ALL SHARP EDGES, R.02 MIN.	
.XX ± .01		3. DO NOT SCALE FROM DRAWING.	
.XXX ± .005		4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
ANGULAR ± 0.5°		MATERIAL	FINISH
		18-8 SSSL	63 μinch

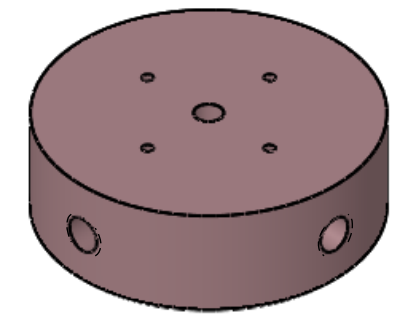
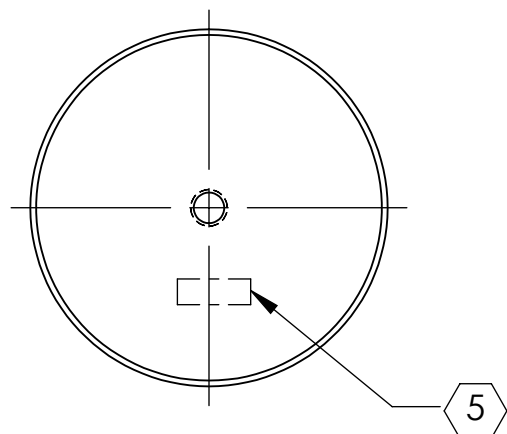
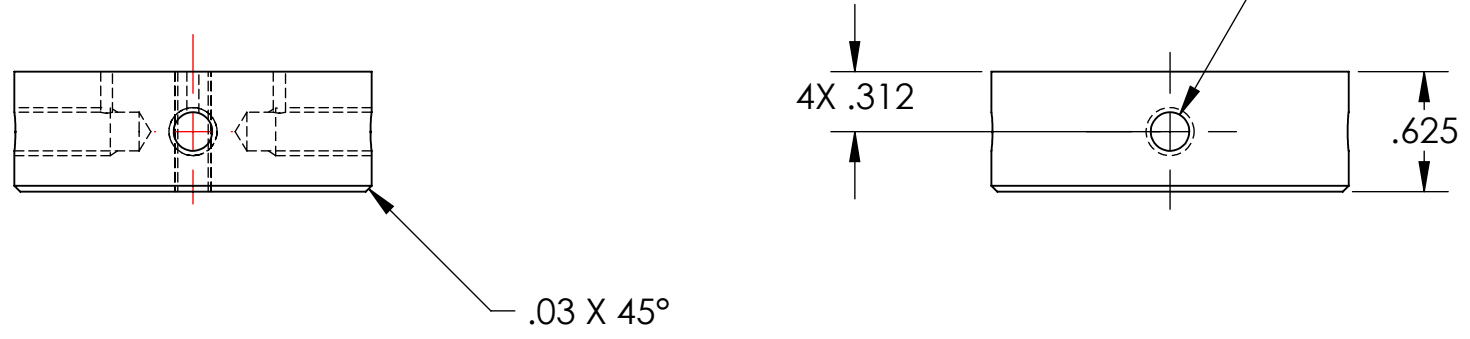
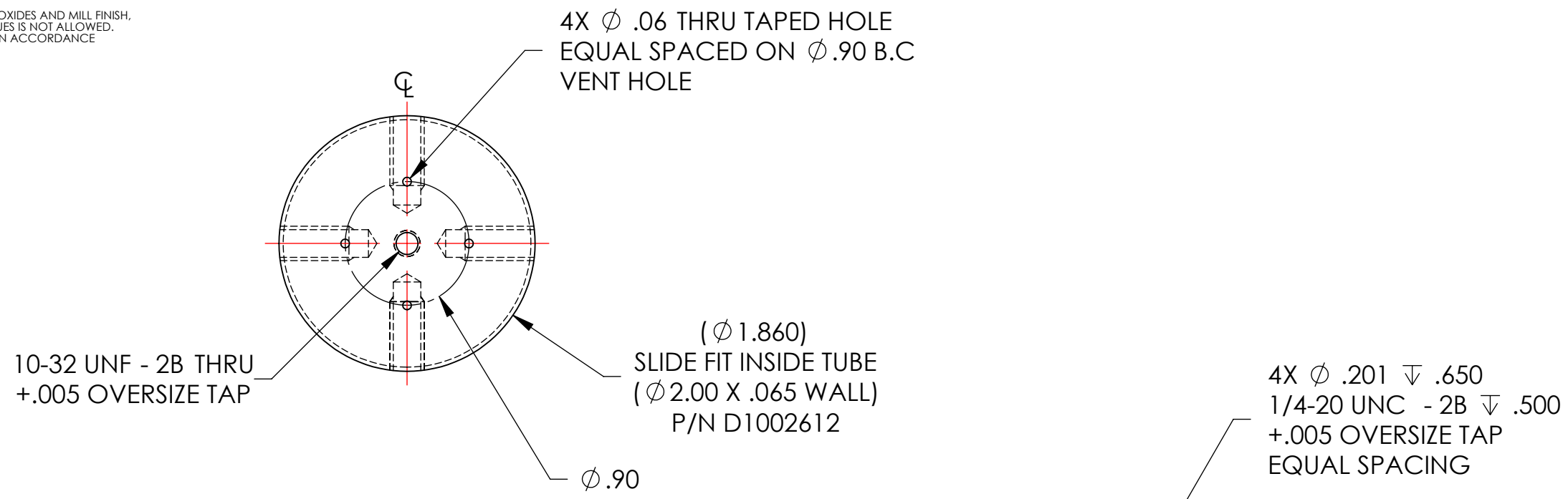
CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	PART NAME	
	SCREW HEX HD #3/4-10 X 4 MODIFIED	
	SYSTEM ADVANCED LIGO	SUB-SYSTEM AOS
NEXT ASSY D0901376	DESIGNER N.Nguyen	DATE 10 Sep 2010
	DRAFTER TQ. NGUYEN	DATE 18 OCT 2010
	CHECKER M. SMITH	DATE 15 NOV 2010
	APPROVAL D. COYNE	DATE 20 NOV 2010

SIZE	DWG. NO.	REV.
B	D1001186	v1
SCALE: 1:1	PROJECTION:	SHEET 1 OF 1

**NOTES CONTINUED:**  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	02 JUNE 2010	E1000285	



ISO VIEW

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SLC SUSPENSION ROD SUPPORT	
MATERIAL 6061-T6 Al		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D1002582				DESIGNER N.Nguyen 01 Jun 2010		SIZE DWG. NO. B D1002581	
				DRAFTER TQ. NGUYEN 24 MAY 2010		REV. v1	
				CHECKER M. SMITH 01 NOV 2010		SCALE: 1:1	
				APPROVAL D. COYNE 10 NOV 2010		PROJECTION:  SHEET 1 OF 1	

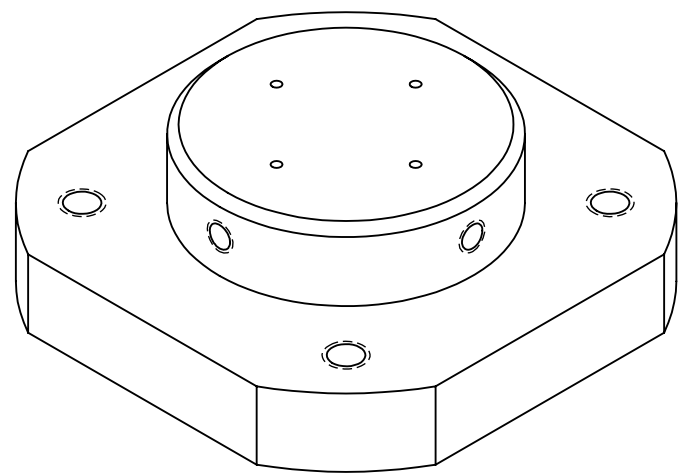
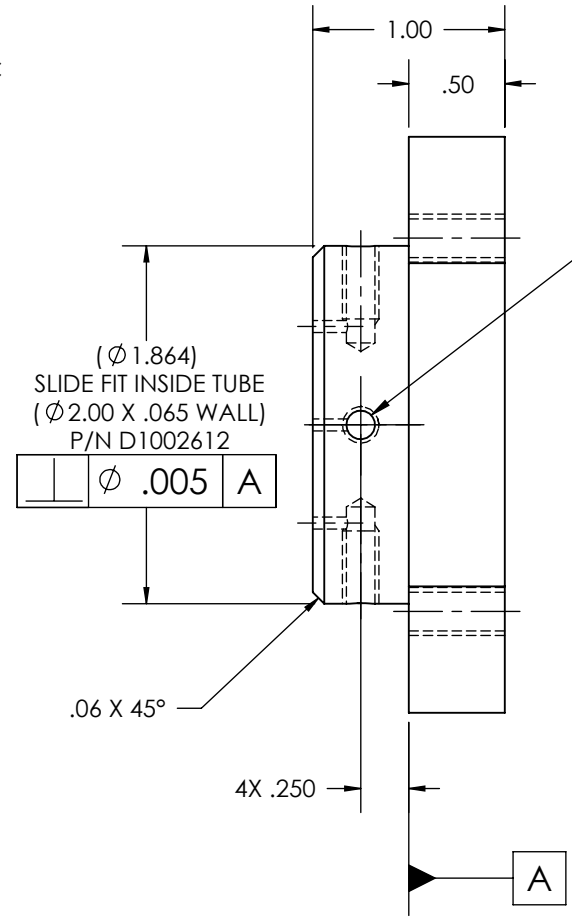
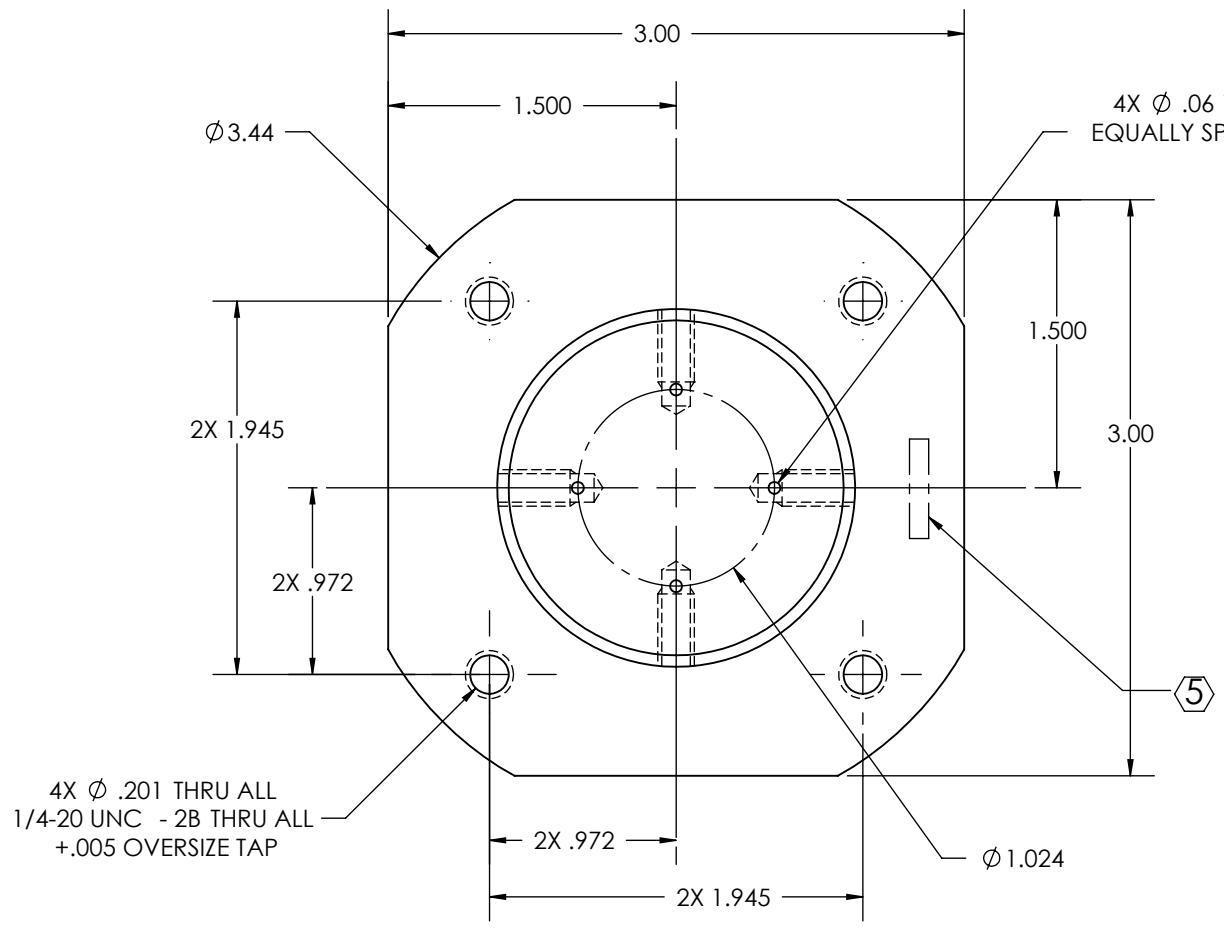
D1002581\_AdlIGO\_AOS\_SLC Suspension Rod Support, PART PDM REV: X-004, DRAWING PDM REV: X-004



D1002610\_AdLIGO\_AOS\_SLC Tube Up Connector Plate, PART PDM REV: X-002, DRAWING PDM REV: X-004

**NOTES CONTINUED:**  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.  
 EXAMPLE (PART): 001-v1  
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD  
 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	19 JUN 2010	E1000285	-
-	-	-	-
-	-	-	-



ISO VIEW

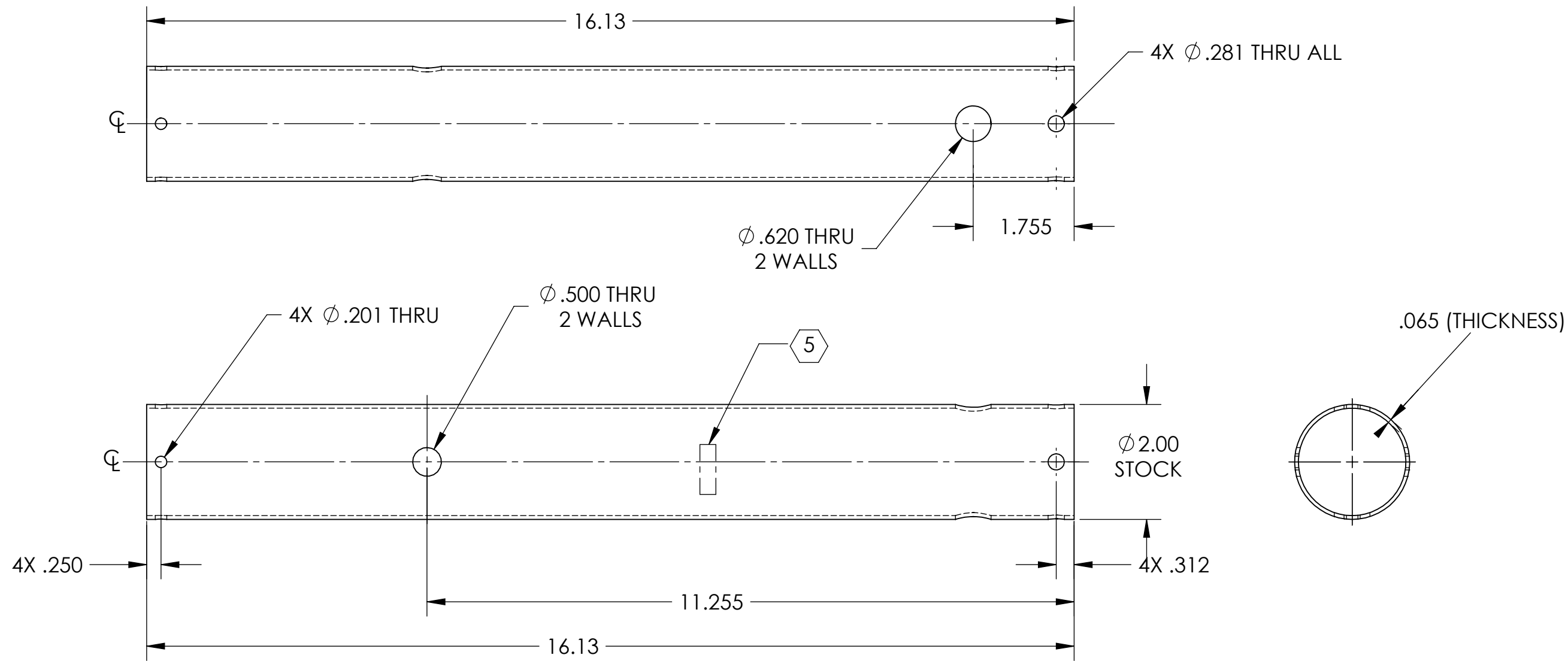
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SLC TUBE UP CONNECTOR PLATE	
MATERIAL 6061-T6 Al		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D1002582				DESIGNER N.Nguyen 01 Jul 2010		SIZE DWG. NO. B D1002610	
MATERIAL 6061-T6 Al				DRAFTER TQ. NGUYEN 19 JUL 2010		REV. v1	
MATERIAL 6061-T6 Al				CHECKER M. SMITH 19 JUL 2010		SCALE: 1:1	
MATERIAL 6061-T6 Al				APPROVAL D. COYNE 10 SEP 2010		PROJECTION:  SHEET 1 OF 1	

NOTES CONTINUED:

5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

- 6. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
- 7. ELECTROPOLISHING PER E0900364, SECTION 5.1, TO REMOVE AL SURFACE OXIDES AND POTENTIALLY EMBEDDED CONTAMINANTS

REV.	DATE	DCN #	DRAWING TREE #
v1	19 JUL 2010	E1000285	

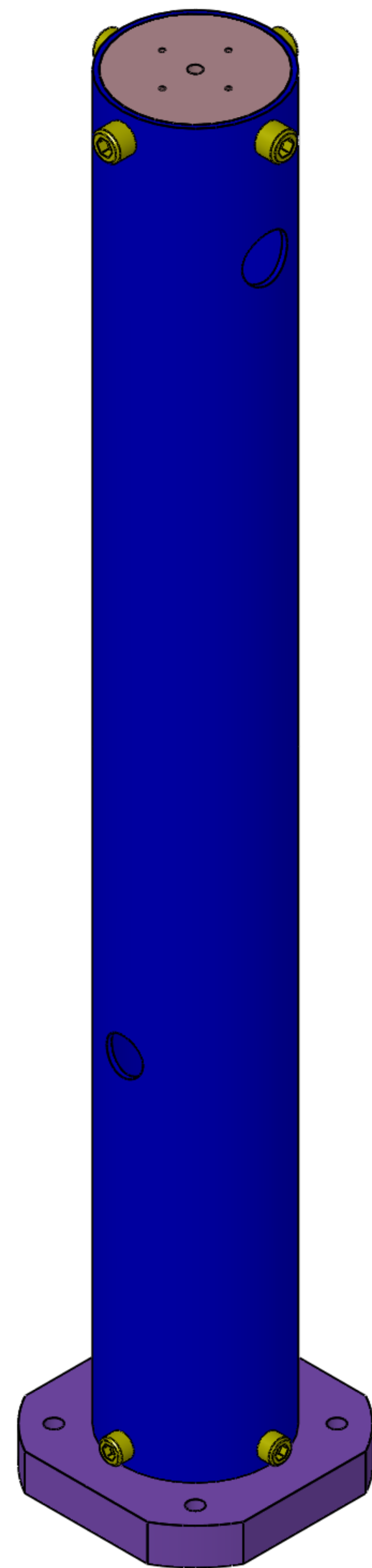


D1002612\_AdlIGO\_AOS\_SLC\_UpperTube, PART PDM REV: X-004, DRAWING PDM REV: X-005

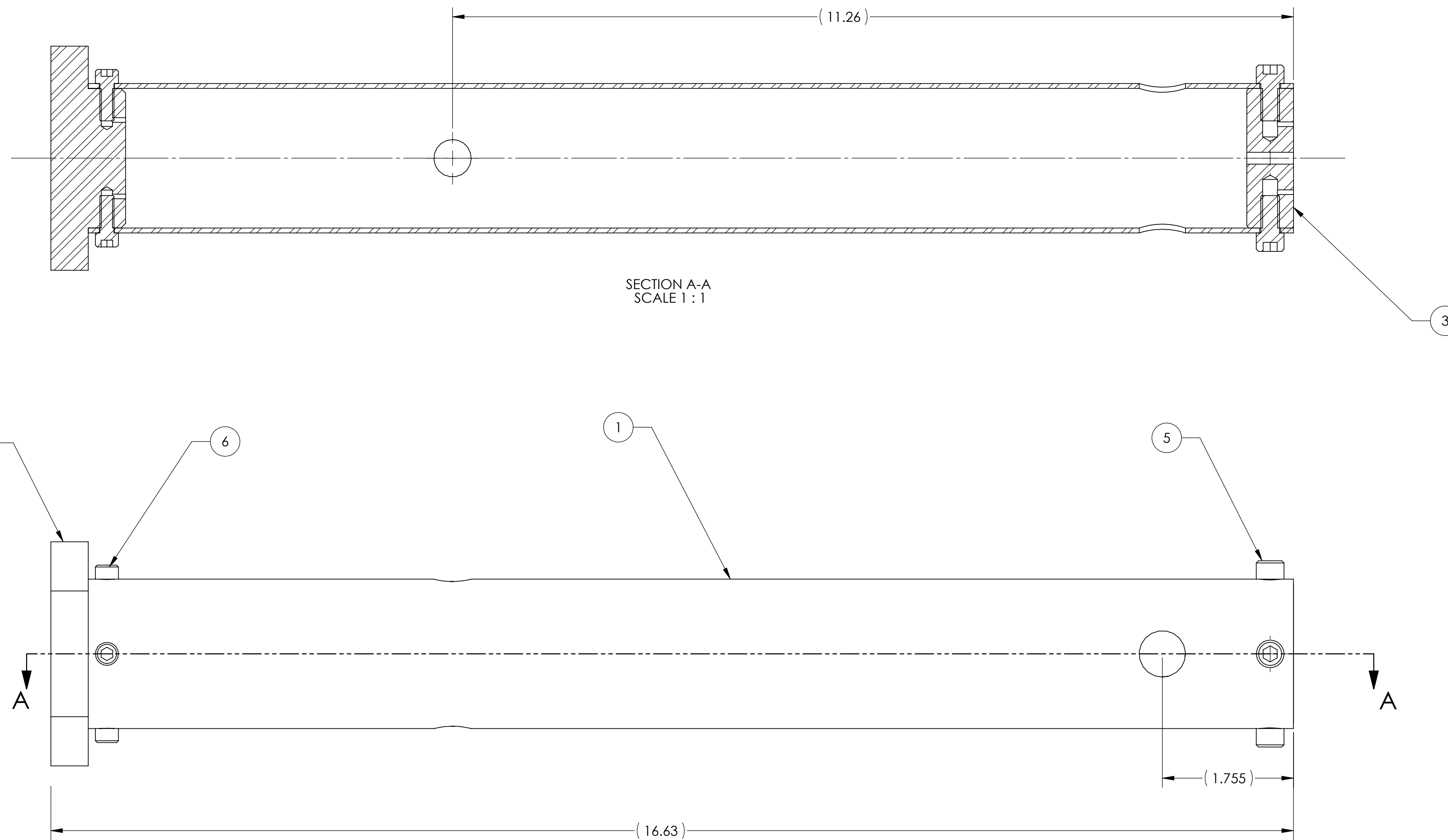
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX $\pm .03$ .XXX $\pm .005$ ANGULAR $\pm 1.0^\circ$				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SLC UPPER TUBE	
MATERIAL		FINISH		SYSTEM		SUB-SYSTEM	
6061-T6 Al		63 $\mu$ inch		ADVANCED LIGO		AOS	
NEXT ASSY				D1002582		DESIGNER	
						N.Nguyen 01 Jul 2010	
						DRAFTER	
						TQ. NGUYEN 19 JUL 2010	
						CHECKER	
						M. SMITH 01 NOV 2010	
						APPROVAL	
						D. COYNE 10 NOV 2010	
		SCALE: 1:2		PROJECTION:		SHEET 1 OF 1	
						SIZE DWG. NO.	
						B D1002612	
						REV.	
						v1	

NOTES CONTINUED:

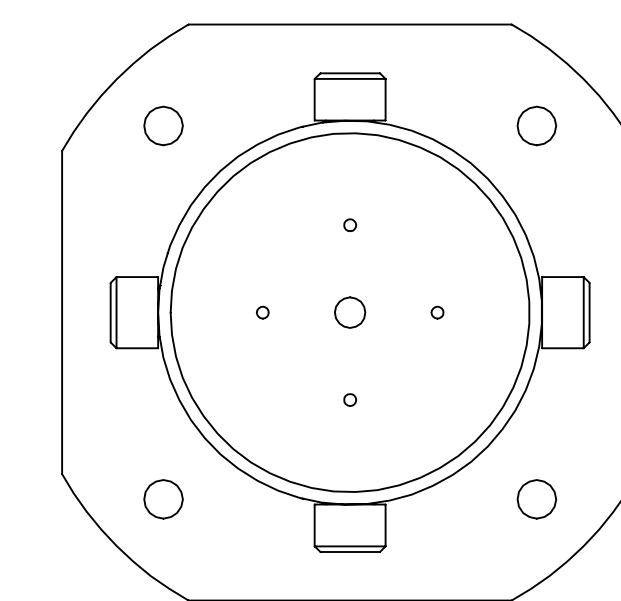
REV.	DATE	DCN #	DRAWING TREE #
v1	19 JUL 2010	E1000285	E1000685



ISO VIEW



SECTION A-A  
SCALE 1:1



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
6	92196A242	SCREW, SOCKET HEAD CAP, #10-24 UNC-2A X 0.5 LONG, McMASTER	18-8 SSSL	4	2	6
5	92196A537	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 0.5 LONG, McMASTER	18-8 SSSL	4	2	6
3	D1002581	SLC SUSPENSION ROD SUPPORT	6061-T6 Al	1		1
2	D1002610	SLC TUBE UP CONNECTOR PLATE	6061-T6 Al	1		1
1	D1002612	SLC UPPER TUBE	6061-T6 Al	1		1

DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .XXX ± ANGULAR ± °		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) 1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME <b>SLC BAFFLE TUBE UP ASSEMBLY</b>	
MATERIAL N/A		FINISH N/A μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D1001011		DESIGNER TQ. NGUYEN		SIZE D		DWG. NO. <b>D1002582</b>	
CHECKER M. SMITH		APPROVAL D. COYNE		DATE 19 JUL 2010 10 NOV 2010		REV. v1	
SCALE: 1:1		PROJECTION:		SHEET 1 OF 1		SHEET 1 OF 1	

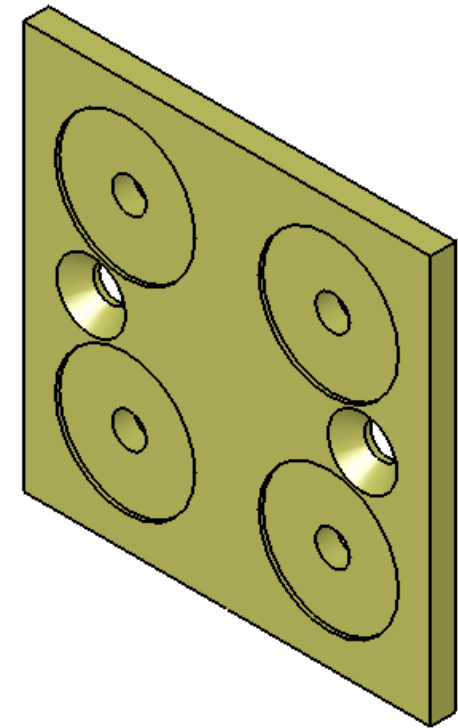
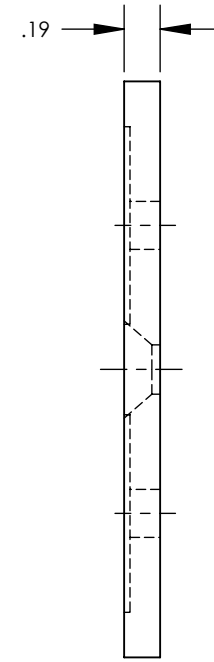
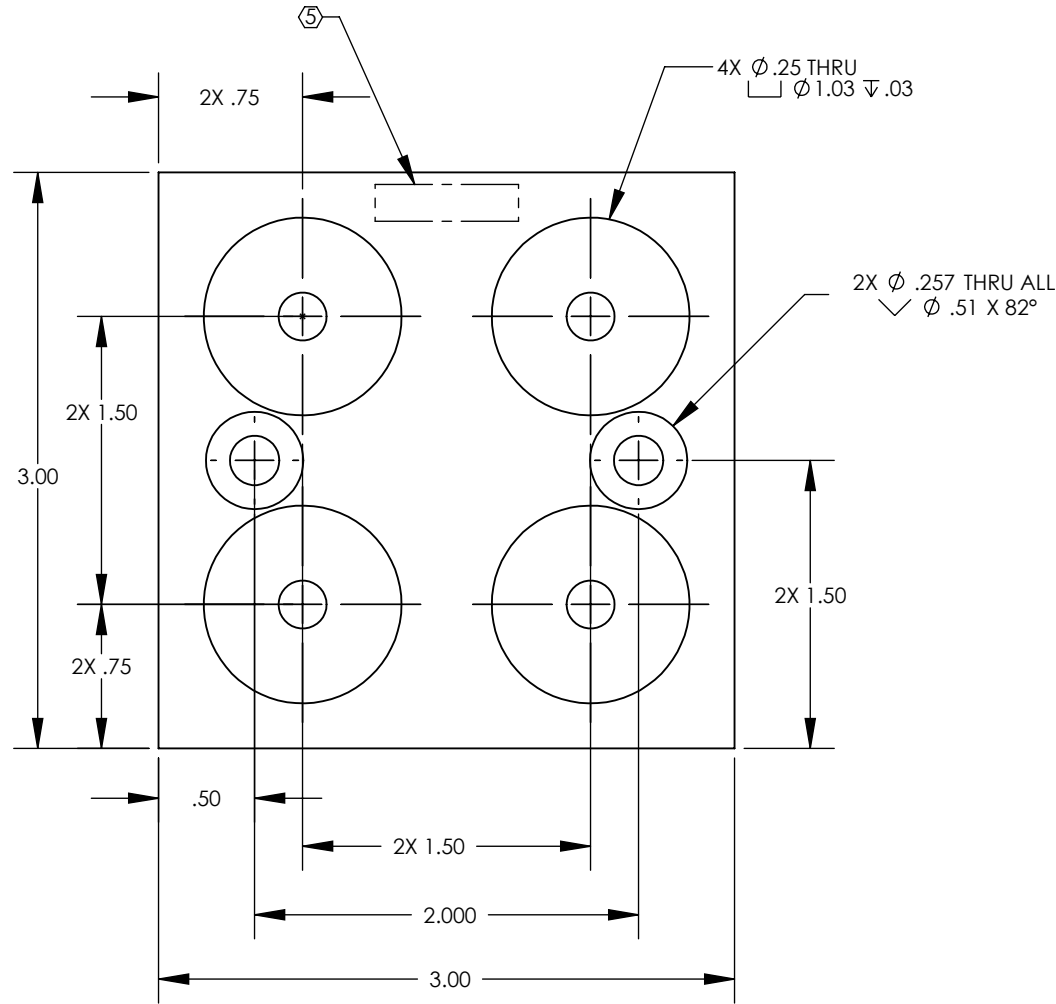
D1002582\_AslUGO\_AOS\_SLC Baffle Tube Up Assy\_PART PDM REV: X-004\_DRAWING PDM REV: X-002

8 7 6 5 4 3 2 1

NOTES CONTINUED:

- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
- 6. APPROXIMATE WEIGHT = .44 LB.
- 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
- 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
- 9. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO, REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	07 JUN 2010	E1000191	



D1000930\_AdlIGO\_AOS\_SLC Magnet Holder Steel Plate, PART PDM REV: X-011, DRAWING PDM REV: X-016

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± .01 .XXX ± .005	
ANGULAR ± 1.0°	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
MATERIAL	416 SSSL
FINISH	63 μinch

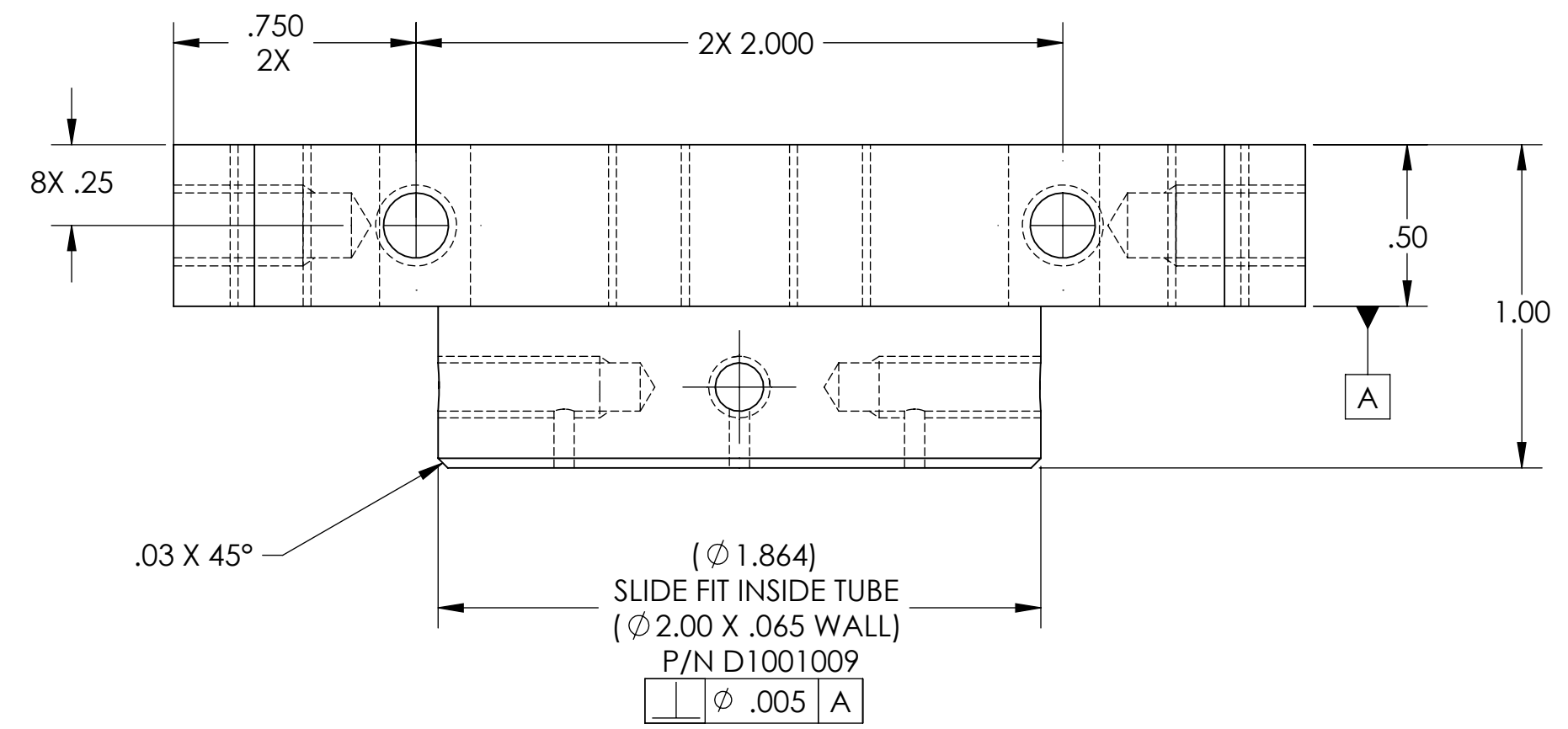
<p>CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY</p>	SYSTEM	ADVANCED LIGO	SUB-SYSTEM	AOS
	NEXT ASSY	D1001007		
	PART NAME			
	SLC MAGNET HOLDER STEEL PLATE			

DESIGNER	N.Nguyen	01 Jun 2010	SIZE	DWG. NO.	REV.
DRAFTER	TQ. NGUYEN	19 MAY 2010	B	D1000930	v1
CHECKER	M. SMITH	30 JUN 2010	SCALE:	1:1	PROJECTION:
APPROVAL	D. COYNE	01 SEP 2010	SHEET 1 OF 1		

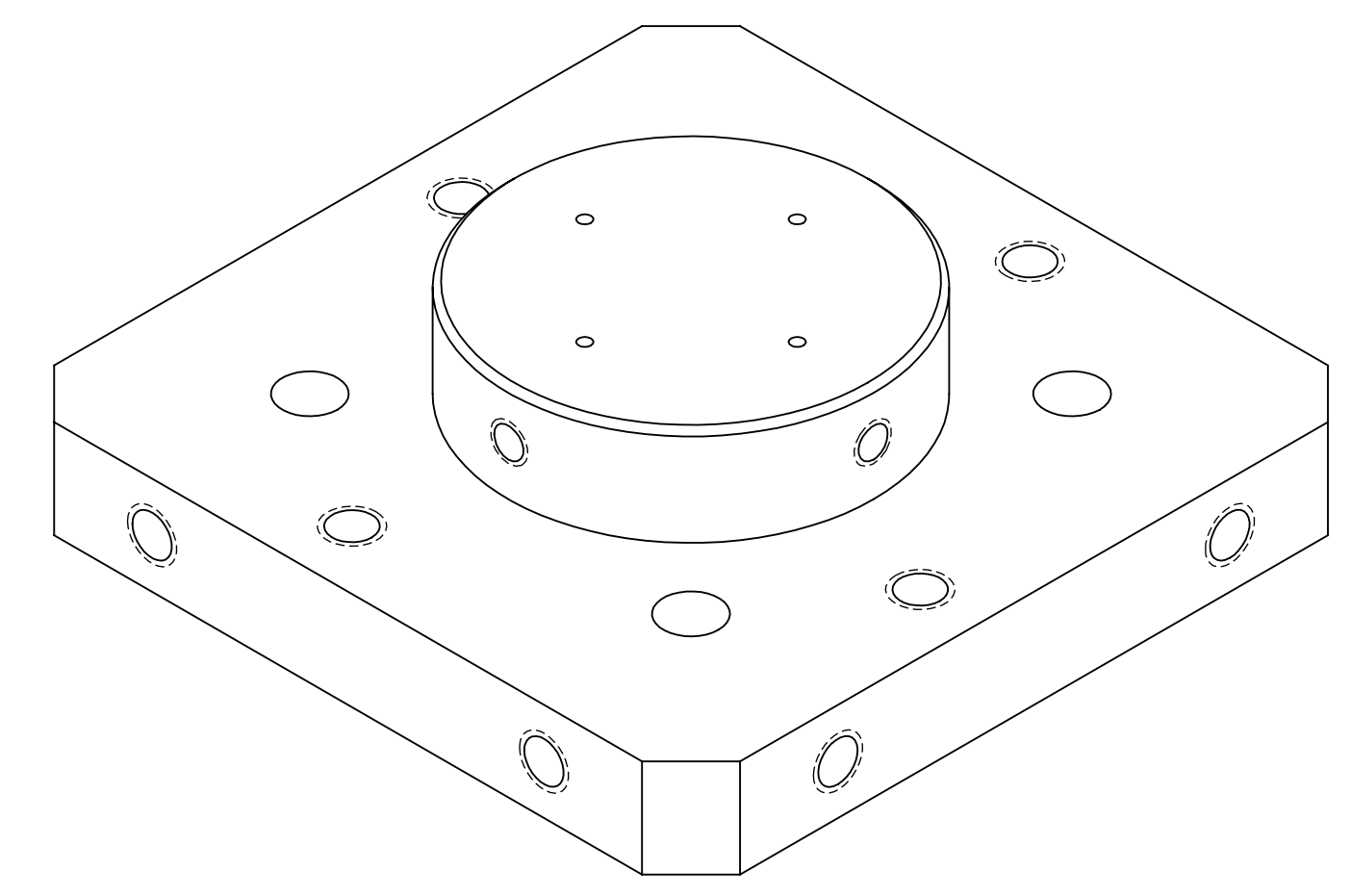
8 7 6 5 4 3 2 1

NOTES CONTINUED:  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

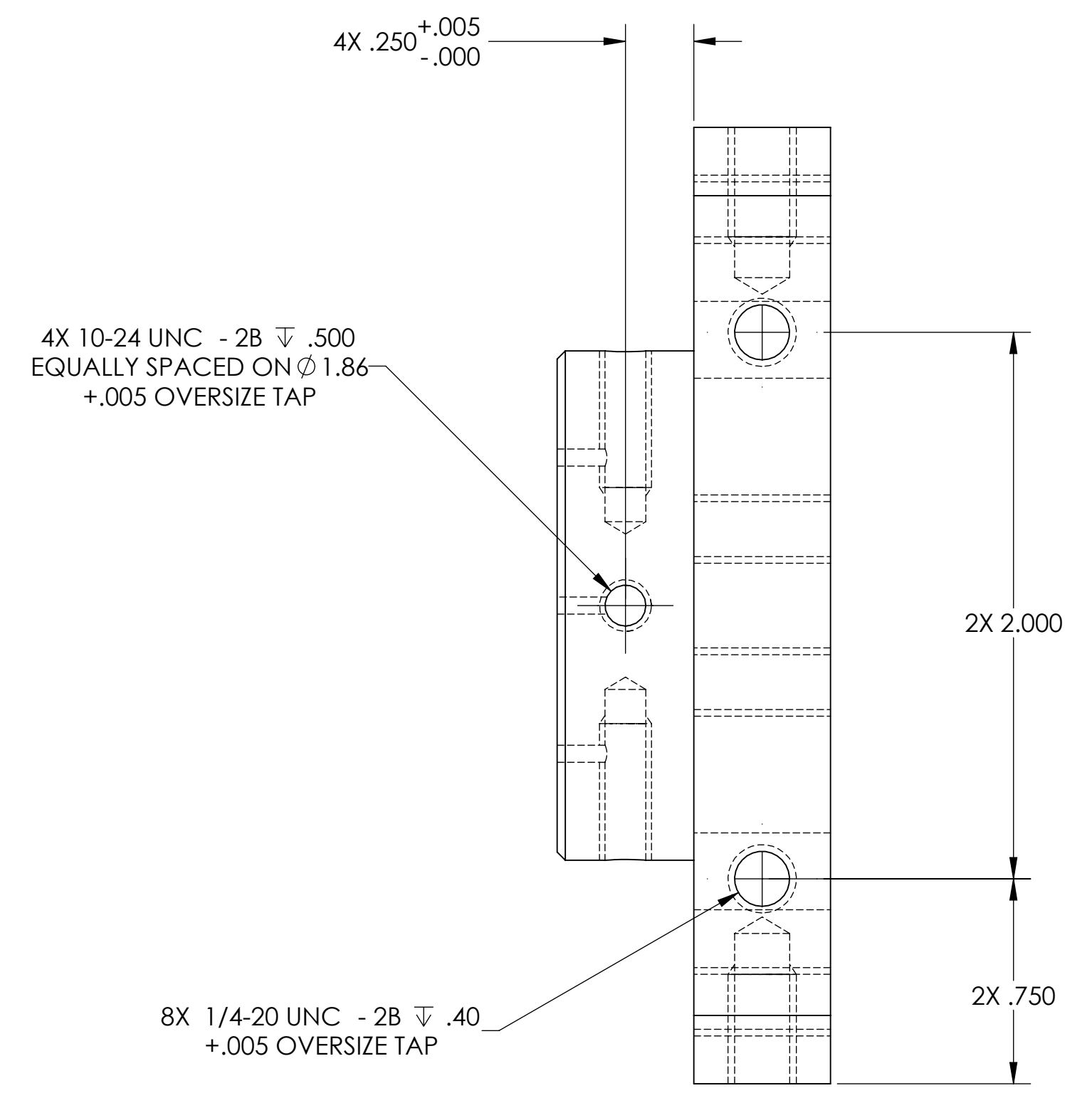
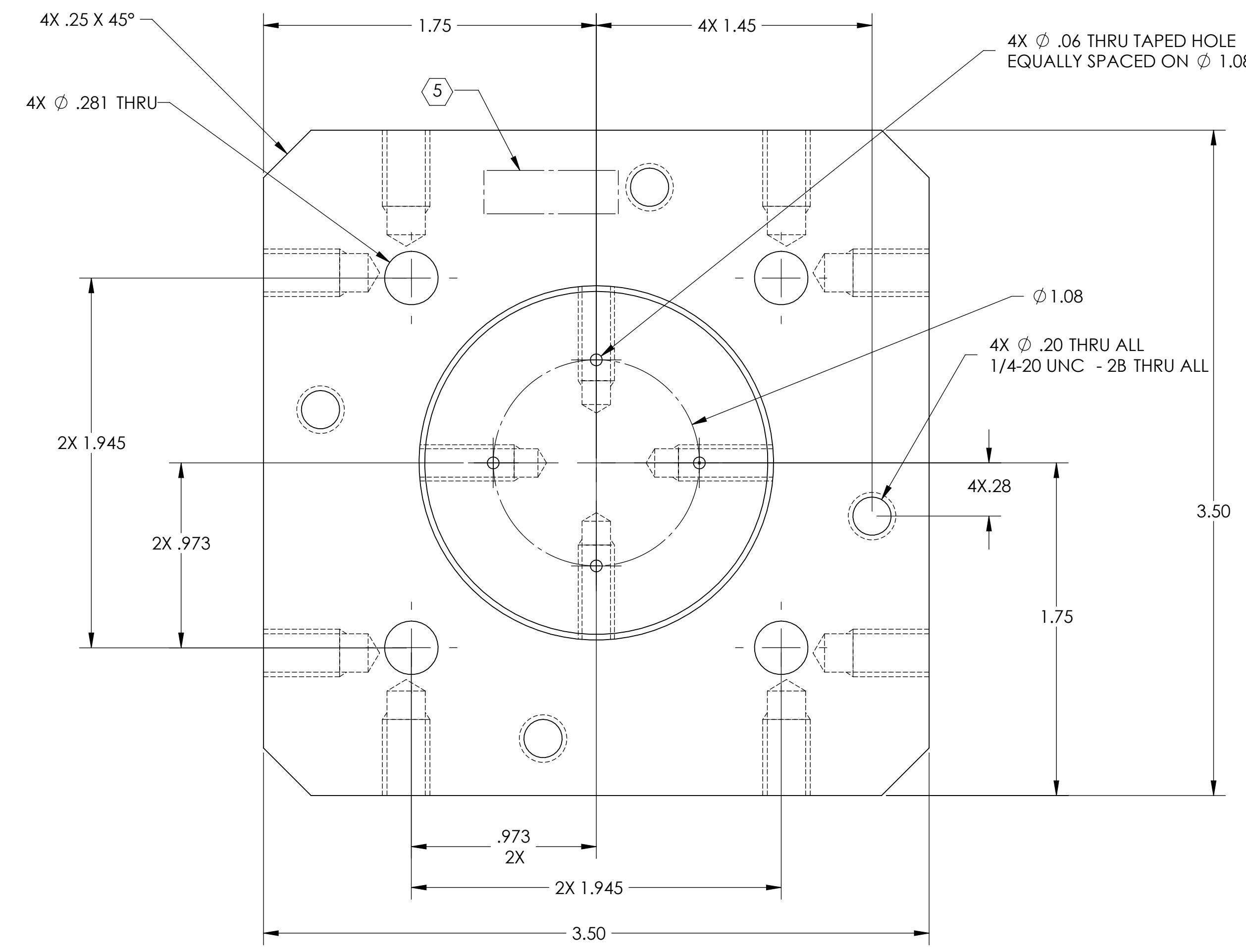
6. APPROXIMATE WEIGHT = .314 LB.  
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.  
 9. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO. REFER TO LIGO-E0900364.



REV.	DATE	DCN #	DRAWING TREE #
v1	10 OCT 2010	E1000285	



ISO VIEW



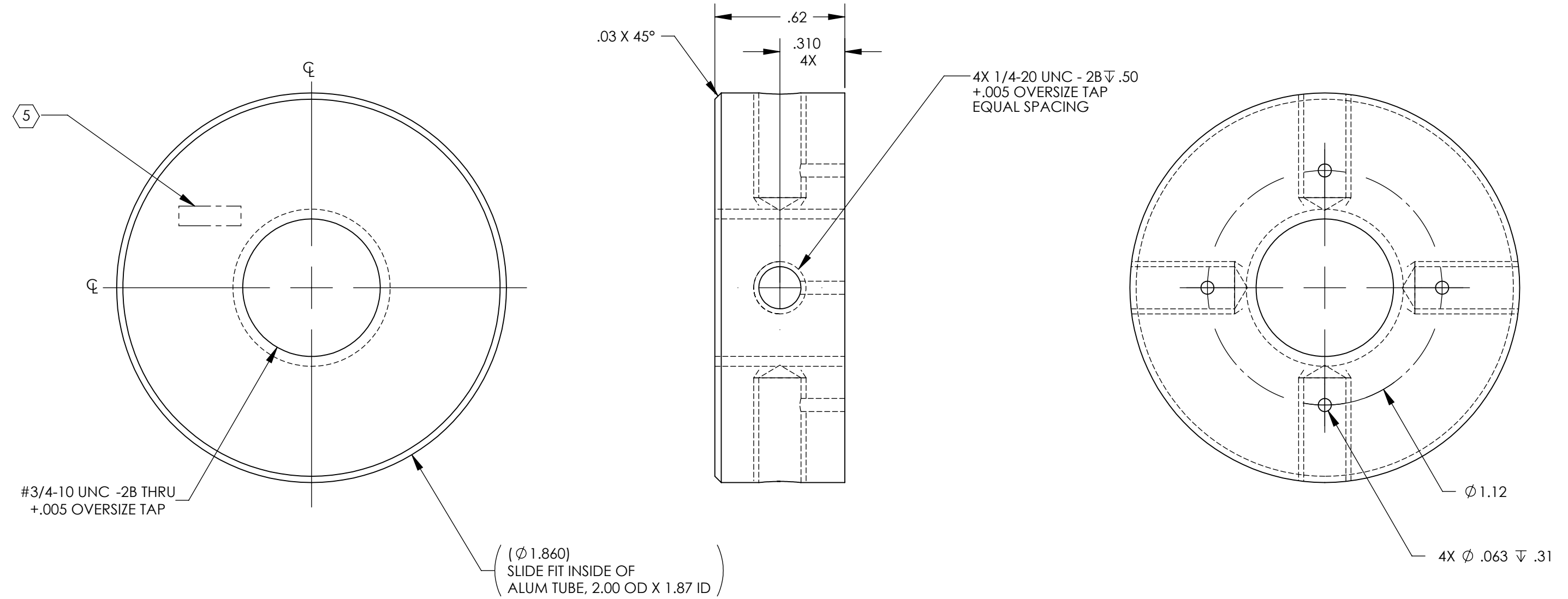
DIMENSIONS ARE IN INCHES		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME			
TOLERANCES: .XX ± .01 .XXX ± .005		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS		SLC TUBE LOWER CONNECTOR PLATE	
ANGULAR ± 1.0°		MATERIAL 6061-T6 Al		FINISH 63 µinch		NEXT ASSY D1001007		DESIGNER N.Nguyen	
						DATE 01 Jun 2010		SIZE D	
						DATE 19 Jul 2010		DWG. NO. D1002618	
						DATE 01 Nov 2010		REV. v1	
						DATE 10 Nov 2010		SCALE: 1:1	
						PROJECTION:		SHEET 1 OF 1	

D:\002618\_Asl\lgo\_aos\_slc\_tube\_lower\_connector\_plate.prt PDM REV: X-003 DRAWING PDM REV: X-008

8 7 6 5 4 3 2 1

**NOTES CONTINUED:**  
 5 SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

REV.	DATE	DCN #	DRAWING TREE #
v1	20 JUL 2010	E1000191	



D1000684\_AdlIGO\_AOS\_SLC Tube Lower Mounting Plate, PART PDM REV: X-003, DRAWING PDM REV: X-003

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		<b>SLC TUBE LOWER MTG PLATE</b>	
<b>MATERIAL</b> 6061-T6 Al		<b>FINISH</b> 63 µinch		<b>SYSTEM</b> ADVANCED LIGO		<b>SUB-SYSTEM</b> AOS	
<b>NEXT ASSY</b> D1001007, D1001095				<b>DESIGNER</b> N. NGUYEN		<b>DATE</b> 01 JUN 2010	
				<b>DRAFTER</b> TQ. NGUYEN		<b>DATE</b> 20 JUL 2010	
				<b>CHECKER</b> M. SMITH		<b>DATE</b> 01 NOV 2010	
				<b>APPROVAL</b> D. COYNE		<b>DATE</b> 10 NOV 2010	
						<b>SIZE DWG. NO.</b> <b>B D1000684</b>	
						<b>SCALE:</b> 2:1 <b>PROJECTION:</b>	
						<b>REV.</b> v1	
						SHEET 1 OF 1	

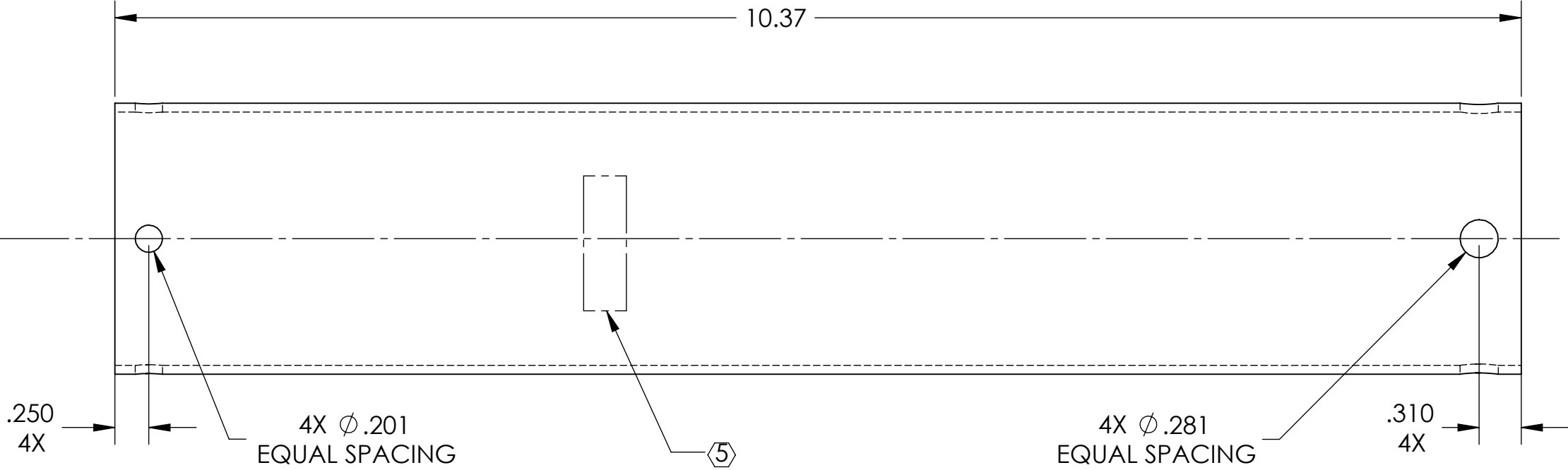
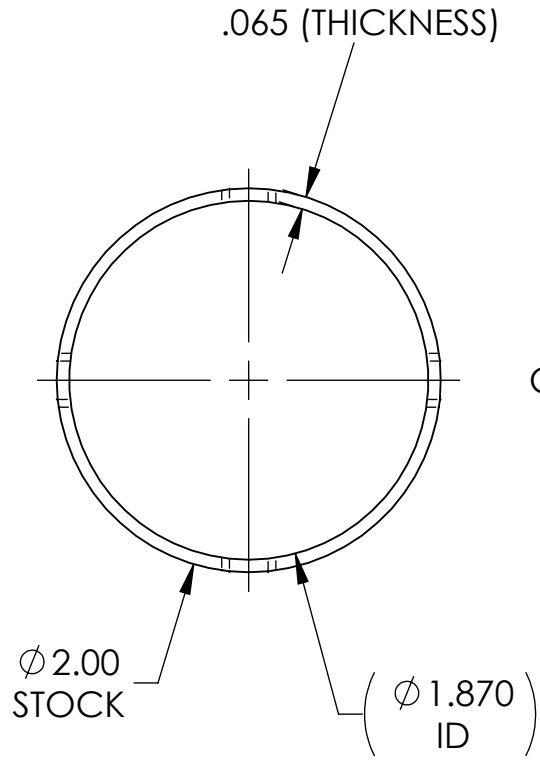
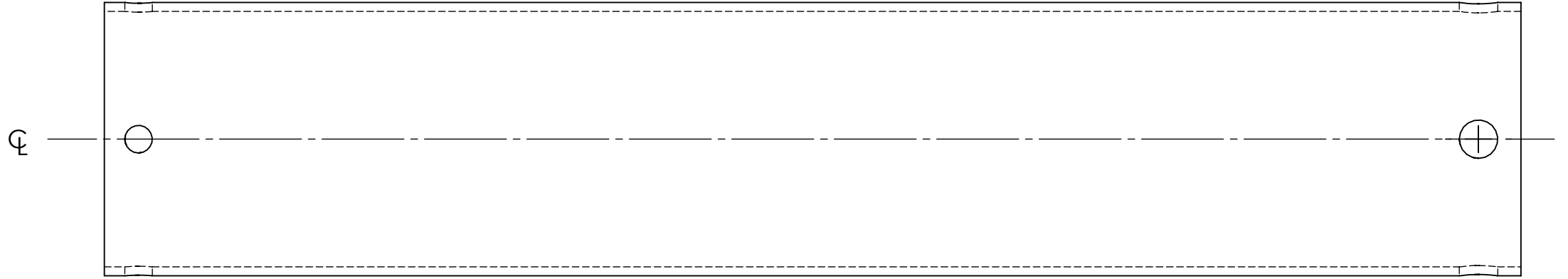
8 7 6 5 4 3 2 1

D1001009\_AdlIGO\_AOS\_SLC\_ARM Cavity Baffle Lo Tube, PART PDM REV: X-013, DRAWING PDM REV: X-009

**NOTES CONTINUED:**  
 5 SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

REV.	DATE	DCN #	DRAWING TREE #
v1	20 AUG 2010	E1000285	

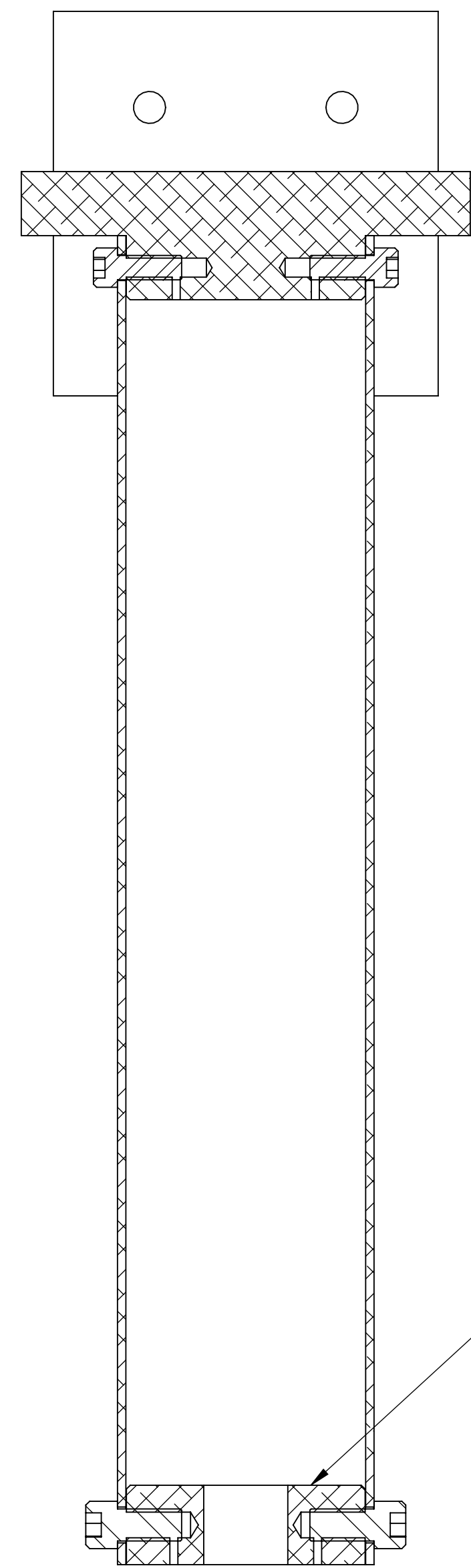
6 ELECTROPOLISHING PER E0900364, SECTION 5.1, TO REMOVE ALL SURFACE OXIDES AND POTENTIALLY EMBEDDED CONTAMINANTS.



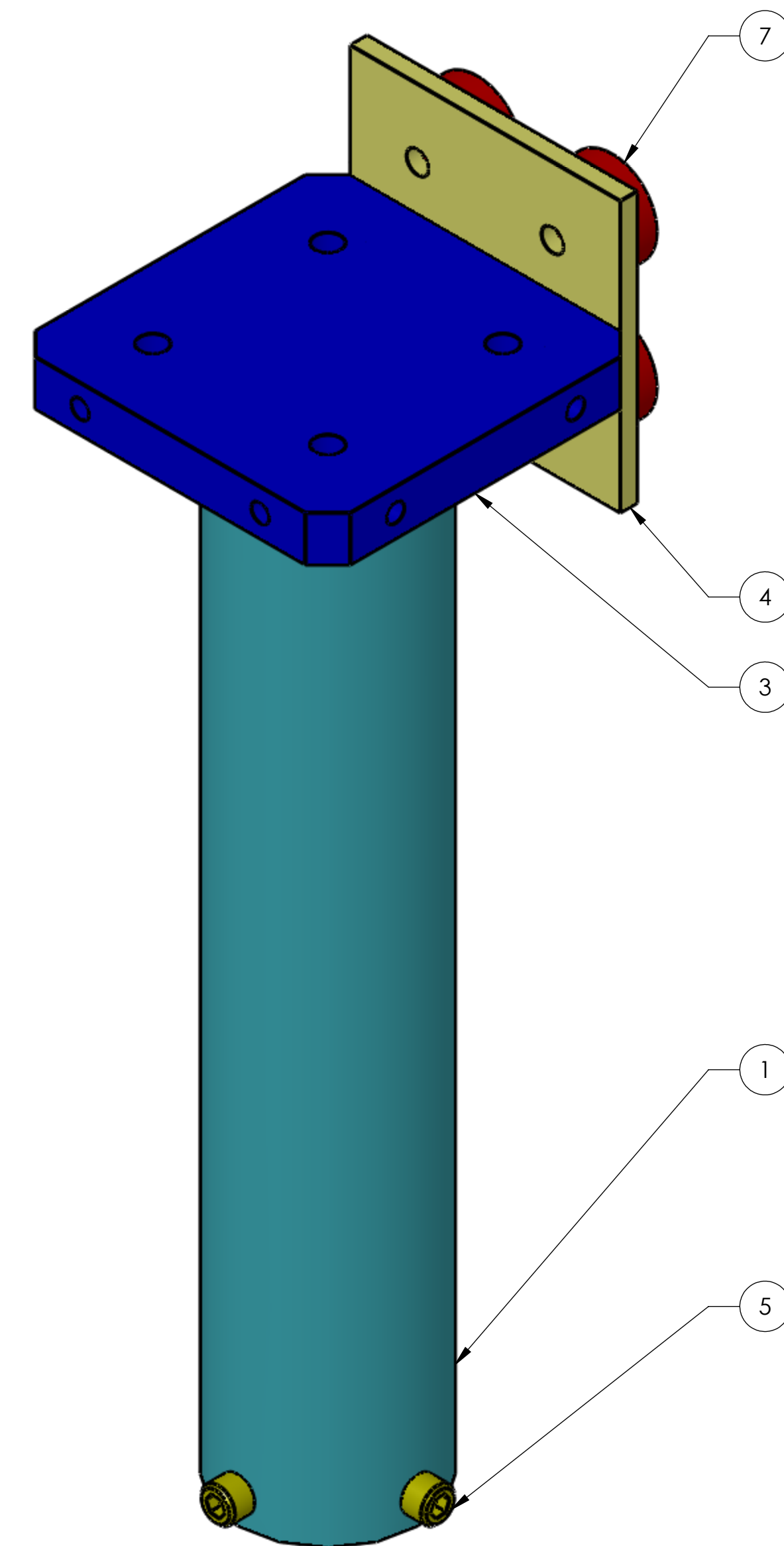
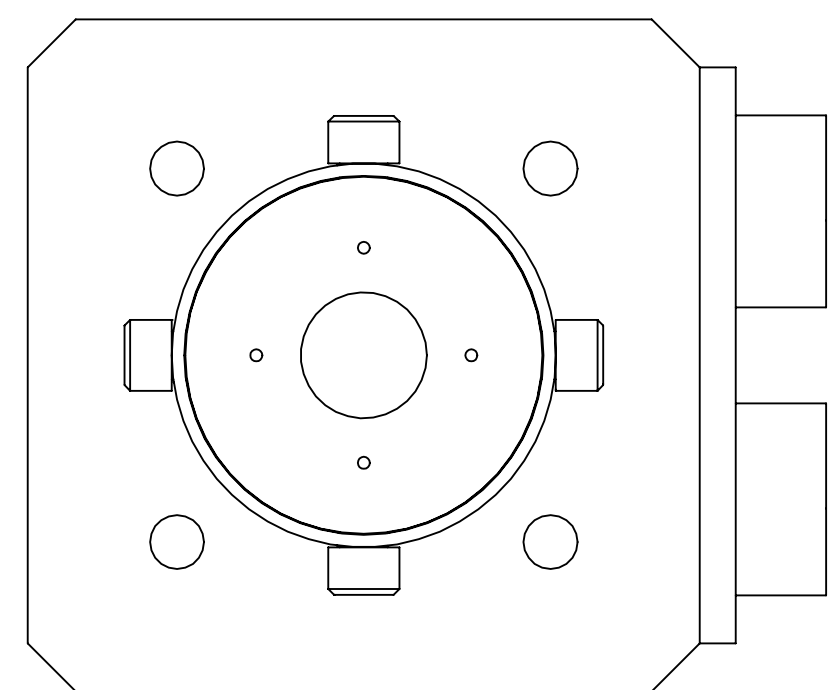
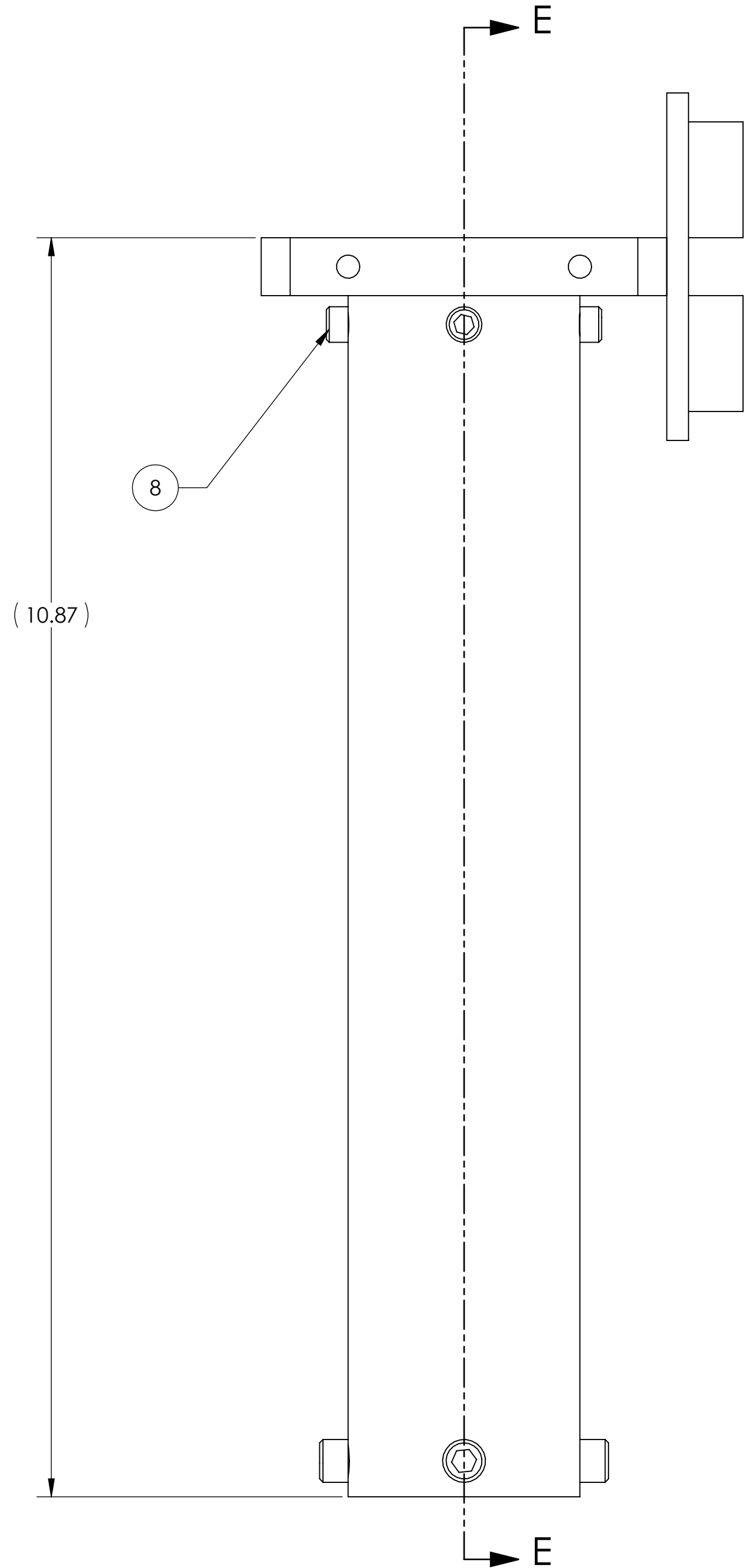
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .03 .XXX ± .010 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		ARM CAVITY BAFFLE LO TUBE	
MATERIAL 6061-T6 Al		FINISH 63 μinch		SYSTEM ADVANCED LIGO SUB-SYSTEM AOS		DESIGNER N.Nguyen 10 AUG 2010 DRAFTER TQ. NGUYEN 25 MAY 2010 CHECKER M. SMITH 20 AUG 2010 APPROVAL D. COYNE 30 AUG 2010	
NEXT ASSY D1001007				SIZE DWG. NO. B D1001009		REV. v1	
				SCALE: 1:1		PROJECTION:  SHEET 1 OF 1	

NOTES CONTINUED:

REV.	DATE	DCN #	DRAWING TREE #
v1	2 JUL 2010	E1000285	E1000660



SECTION E-E  
SCALE 1 : 1



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
8	92196A242	SCREW, SOCKET HEAD CAP. #10-24 UNC-2A X 0.5 LONG, MCMASTER	18-8 SSSL	4	2	6
7	N35P500500HT	BLUNTING MAGNETIC-NEODYMIUM 1.00D X .50H	NEO 35	4	2	6
6	92210A537	VENTED FLAT SHCS #.25-20 X .50; MCMASTER	18-8 SSSL	2	1	3
5	92196A537	SHCS # 0.25-20 UNC-2A X 0.5; MCMASTER	18-8 SSSL	4	2	6
4	D1000930	SLC MAGNET HOLDER STEEL PLATE	416 SSSL	1		1
3	D1002618	SLC TUBE LOWER CONNECTOR PLATE	6061-T6 Al	1		1
2	D1000684	SLC TUBE LOWER MTG PLATE	6061-T6 Al	1		1
1	D1001009	ARM CAVITY BAFFLE LO TUBE	6061-T6 Al	1		1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994.	
2. REMOVE ALL SHARP EDGES, R.02 MIN.	
3. DO NOT SCALE FROM DRAWING.	
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± .XXX ±	
ANGULAR ± °	
MATERIAL	N/A
FINISH	N/A μinch

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME		ACB TUBE LO ASSY	
SYSTEM	ADVANCED LIGO	SUB-SYSTEM	AOS	DESIGNER	N.Nguyen 06 Aug 2010
NEXT ASSY	D1001011	DRAPTER	TG. NGUYEN 28 May 2010	SIZE	D
		CHECKER	M. Smith 01 NOV 2010	DWG. NO.	D1001007
		APPROVAL	D. Coyne 10 NOV 2010	REV.	v1
			SCALE: 1:2	PROJECTION:	1ST ANGLE
					SHEET 1 OF 1

D1001007\_AduLIGO\_AOS\_SLC\_ARM\_Cavity\_Baffle\_Tube\_Lo Assy: PART PDM REV: X.023, DRAWING PDM REV: X.007



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3

2

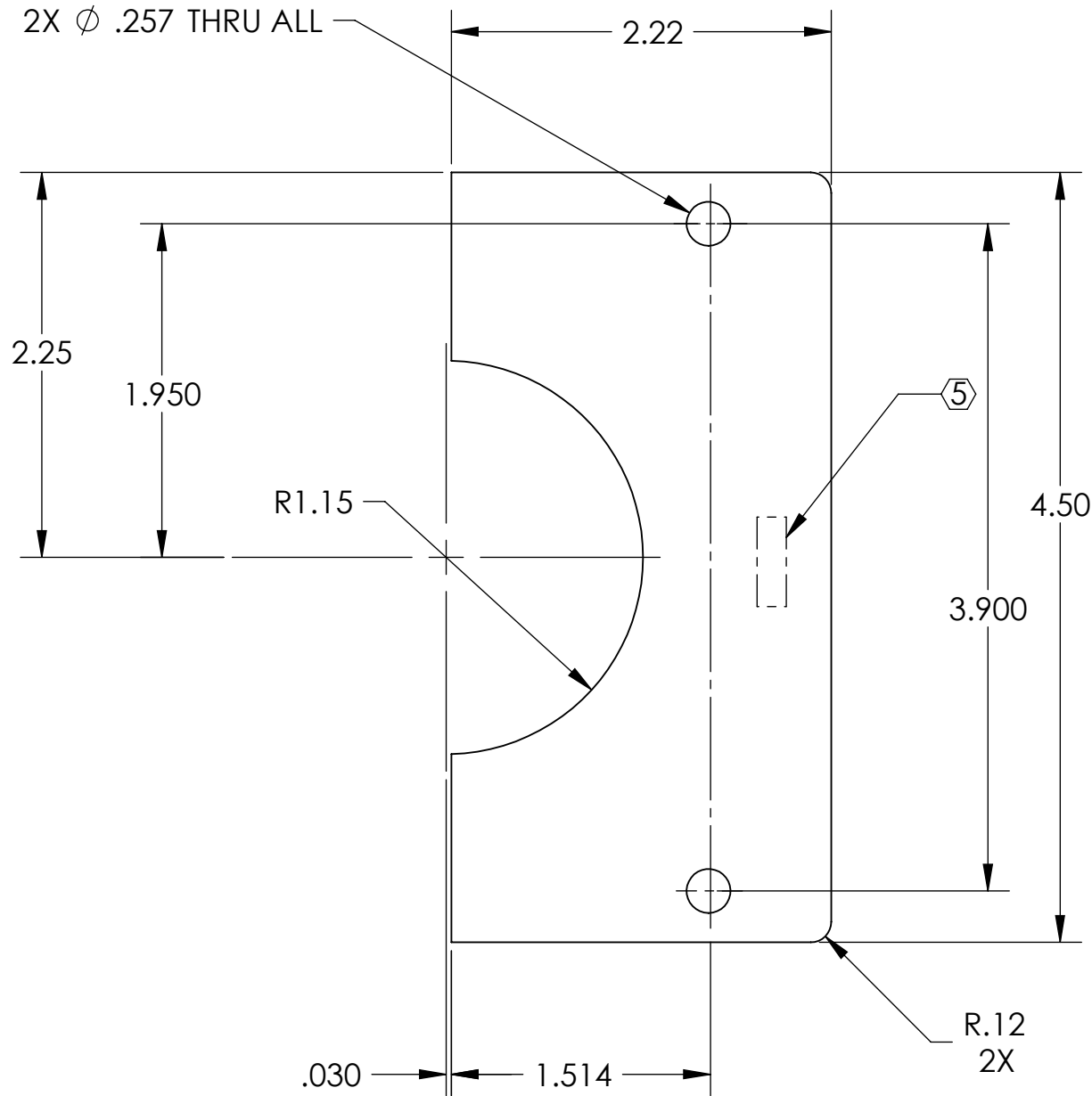
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NOTES CONTINUED:

5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

- 6. APPROXIMATE WEIGHT = .096 LB.
- 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
- 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
- 9. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO, REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	07 JUN 2010	E1000191	



D1001120\_AdlIGO\_AOS\_SLC Earthquake Stop Ring, PART PDM REV: X-012, DRAWING PDM REV: X-018

D

C

B

A

D

C

B

A

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
.XX ± .01  
.XXX ± .005  
ANGULAR ± 1.0°

1. INTERPRET DRAWING PER ASME Y14.5-1994.  
2. REMOVE ALL SHARP EDGES, R.02 MIN.  
3. DO NOT SCALE FROM DRAWING.  
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL 6061-T6 Al FINISH 63 μinch

**LIGO** CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS

NEXT ASSY D1000863, D1002564

PART NAME			SLC EARTHQUAKE STOP RING		REV.
DESIGNER	N.Nguyen	01 Jun 20	SIZE DWG. NO.	B	v1
DRAFTER	TQ. NGUYEN	19 MAY 2010	D1001120		
CHECKER	M. SMITH	30 JUN 2010	SCALE: 1:1	PROJECTION:	SHEET 1 OF 1
APPROVAL	D. COYNE	10 SEP 2010			

8

7

6

5

4

3

2

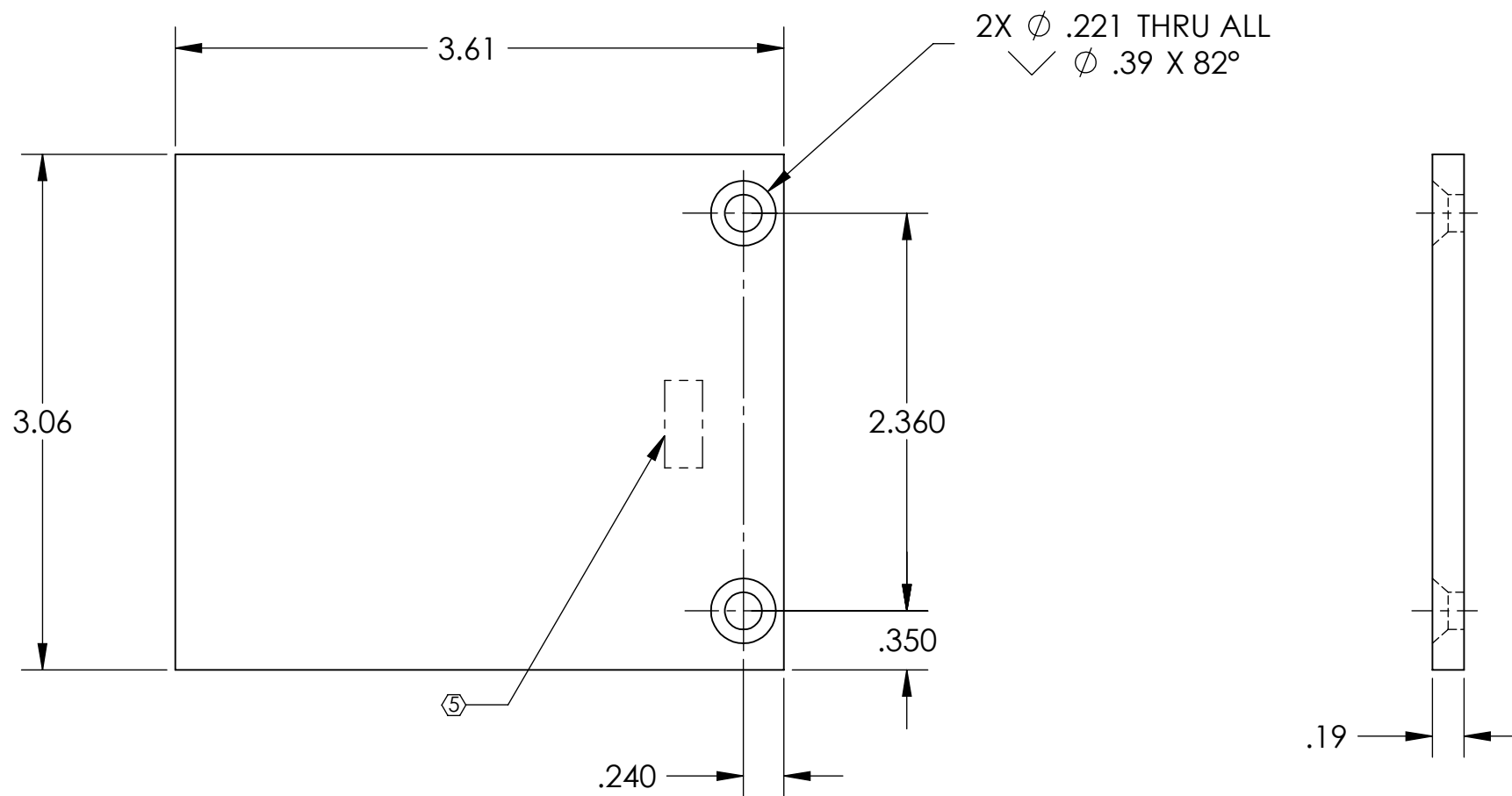
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NOTES CONTINUED:

5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

- 6. APPROXIMATE WEIGHT = X.XXX LB.
- 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
- 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
- 9. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO. REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	07 JUN 2010	E1000191	



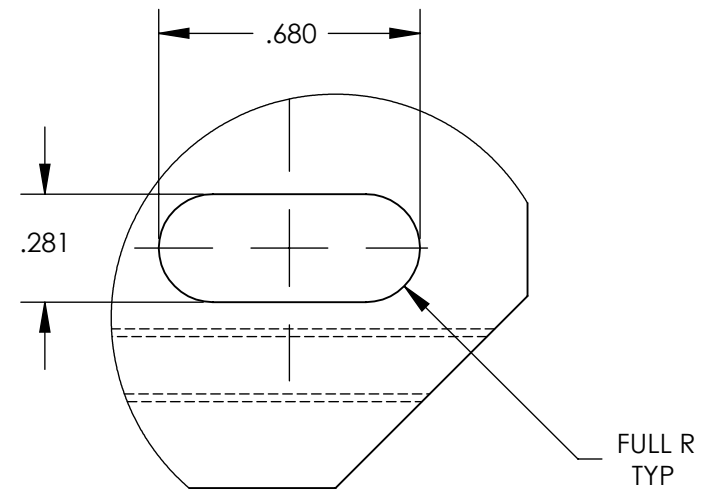
D1000909\_AdlIGO\_AOS\_SLC 4-Way Copper Plate, PART PDM REV: X-010, DRAWING PDM REV: X-017

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM <b>ADVANCED LIGO</b>		SUB-SYSTEM <b>AOS</b>	
TOLERANCES: .XX ± .01 .XXX ± .005		MATERIAL <b>99.999% COPPER</b>		FINISH <b>63 μinch</b>		NEXT ASSY <b>D1000863, D1002564</b>	
ANGULAR ± 1.0°						SCALE: 1:1	
				DESIGNER N.Nguyen		DATE 01 Jun 2010	
				DRAFTER TQ. NGUYEN		DATE 25 MAY 2010	
				CHECKER M. SMITH		DATE 30 JUN 2010	
				APPROVAL D. COYNE		DATE 10 SEP 2010	
				SIZE <b>B</b>		DWG. NO. <b>D1000909</b>	
				REVISION v1		SHEET 1 OF 1	

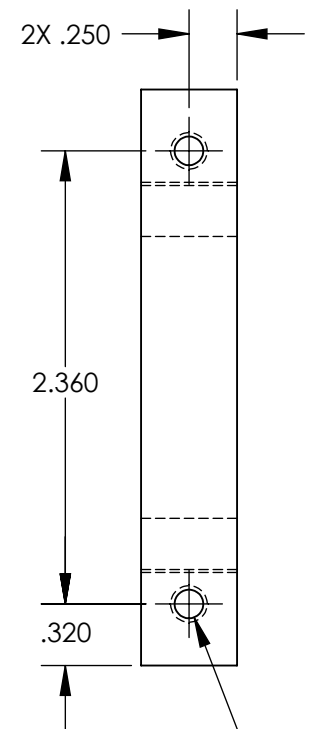
**NOTES CONTINUED:**  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY.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

REV.	DATE	DCN #	DRAWING TREE #
v1	07 JUN 2010	E1000191	

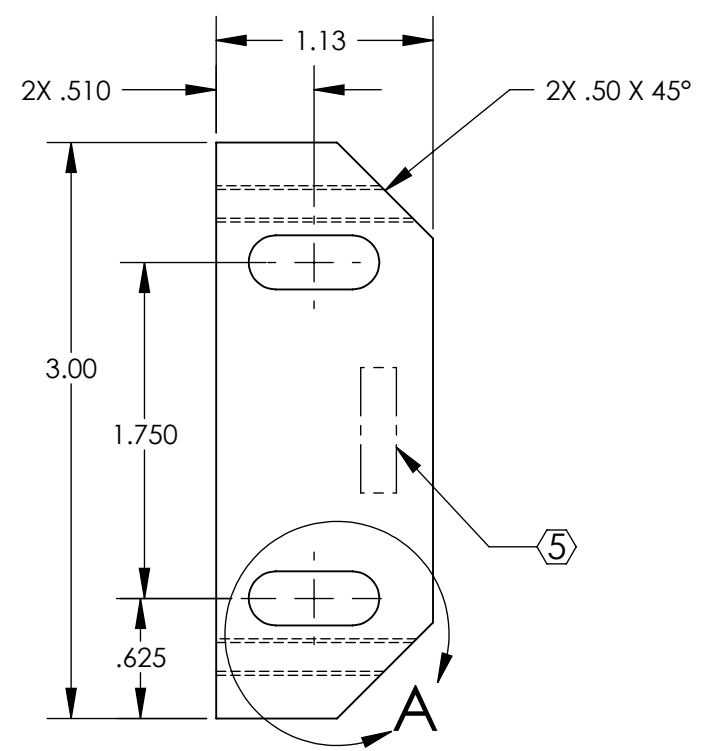
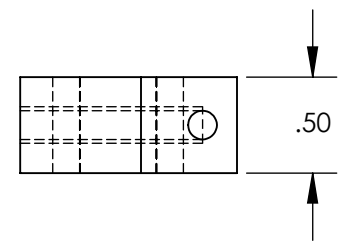
6. APPROXIMATE WEIGHT = .13 LB.  
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.



DETAIL A  
 SCALE 2:1  
 2X



2X DRILL AND TAP  
 10-24 UNC -2B THRU  
 +.005 OVERSIZE TAP



**NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)**  
 1. INTERPRET DRAWING PER ASME Y14.5-1994.  
 2. REMOVE ALL SHARP EDGES, R.02 MIN.  
 3. DO NOT SCALE FROM DRAWING.  
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 .XX ± .01  
 .XXX ± .005  
 ANGULAR ± 1.0°

**LIGO** CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

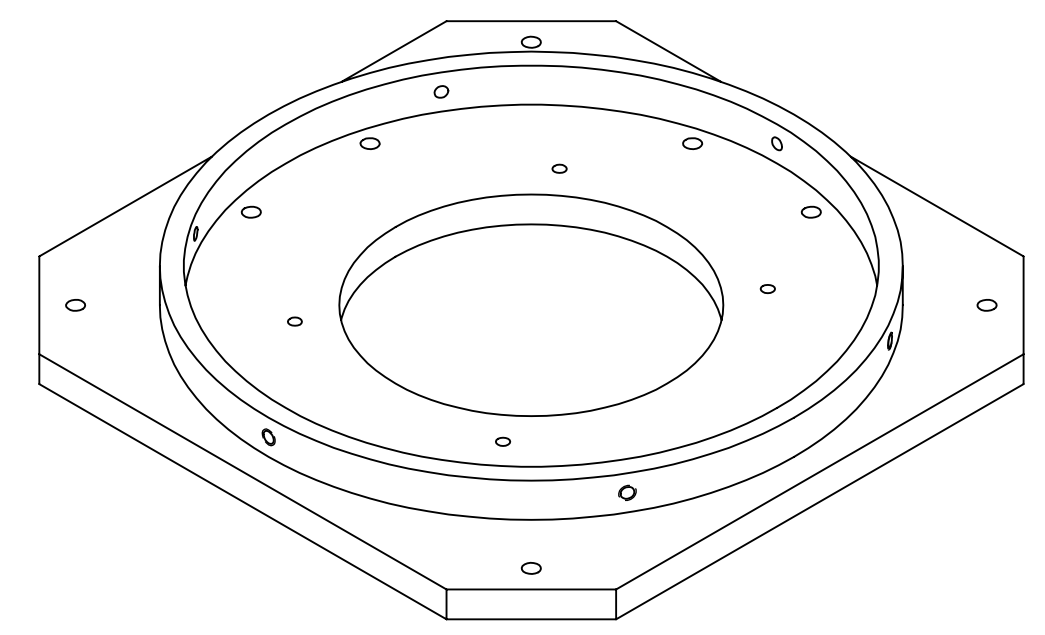
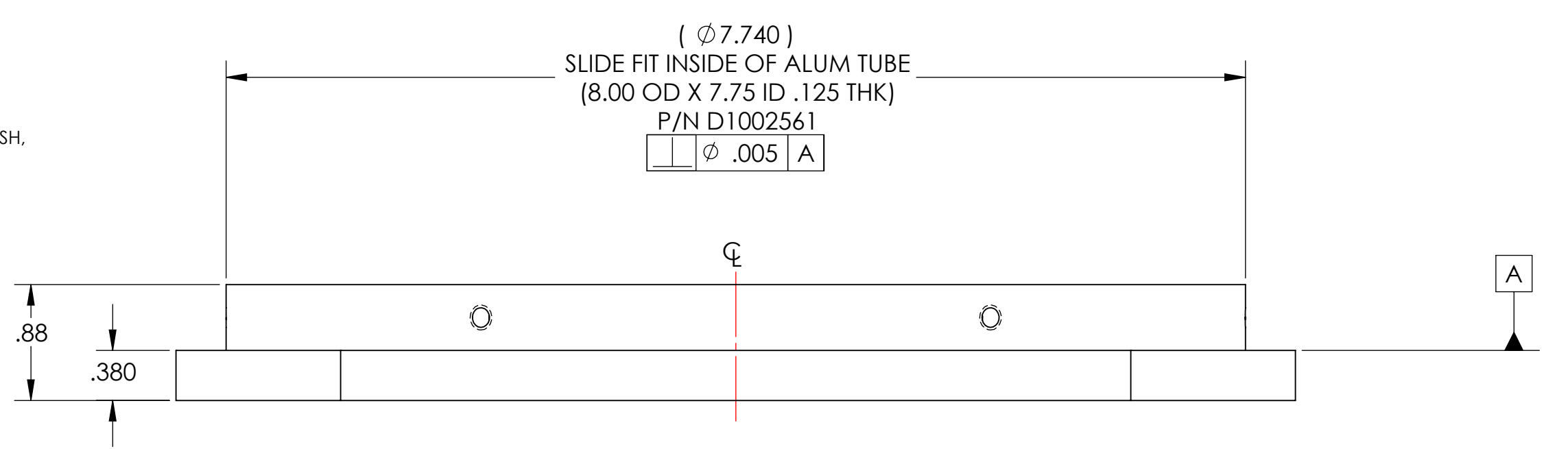
SYSTEM: ADVANCED LIGO SUB-SYSTEM: AOS  
 NEXT ASSY: D100863, D1002564

DESIGNER			PART NAME		
N.Nguyen	01 Jun 2010	19 MAY 2010	SLC COPPER SUPPORT PLATE		
TQ. NGUYEN	19 MAY 2010		SIZE	DWG. NO.	REV.
M. SMITH	30 JUN 2010		B	D1000929	v1
D. COYNE	10 SEP 2010		SCALE: 1:1	PROJECTION:	SHEET 1 OF 1

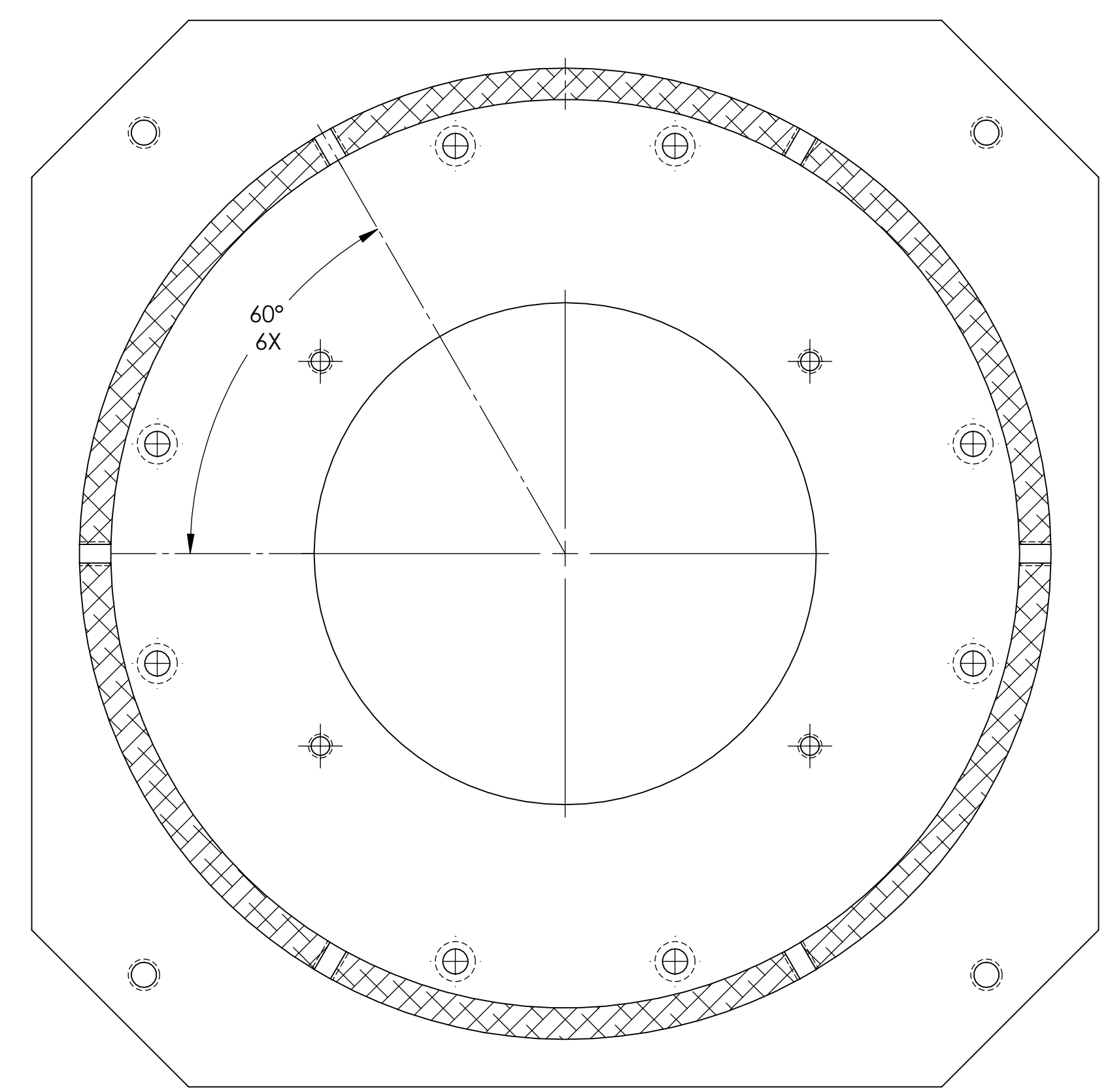
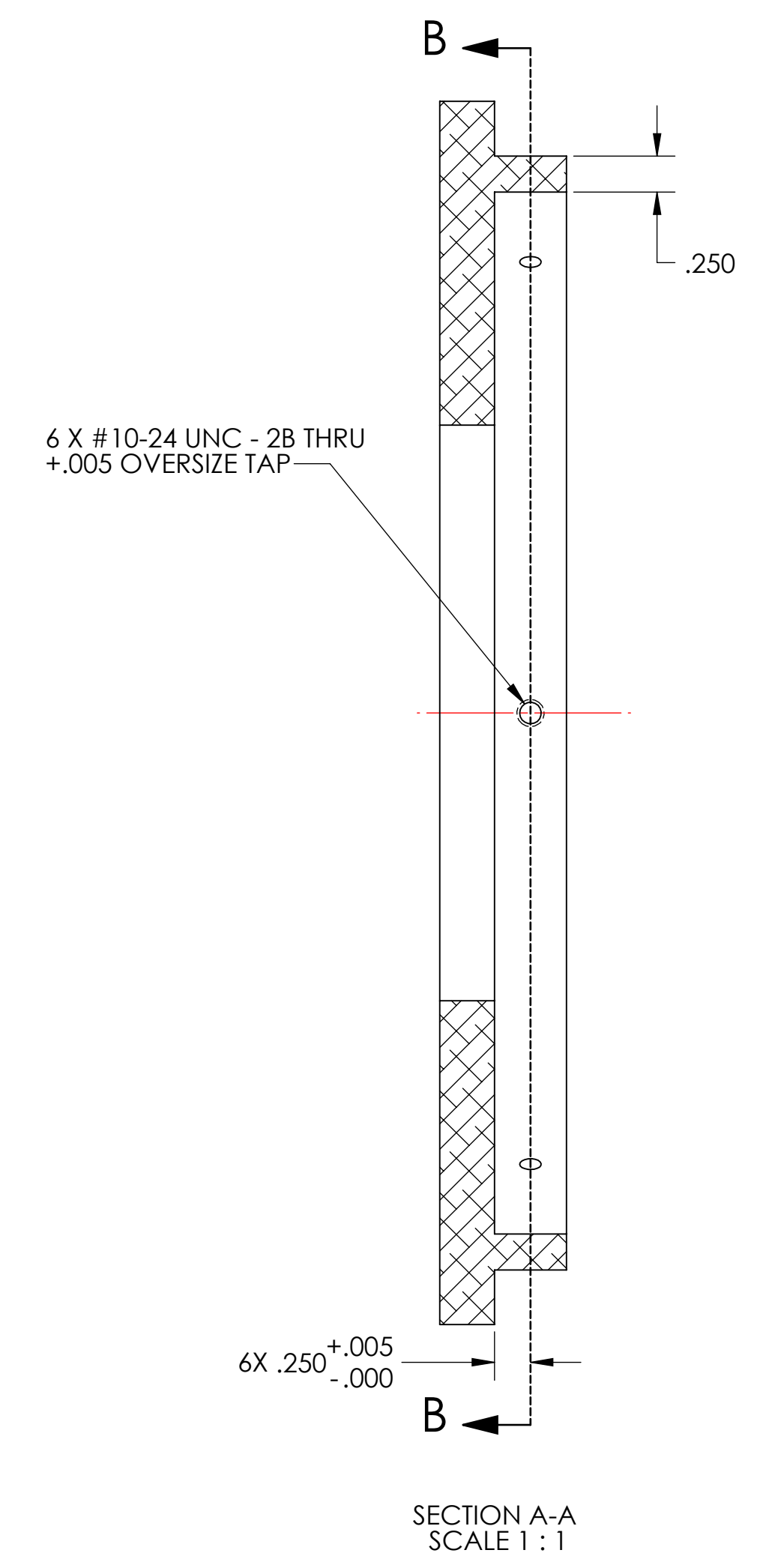
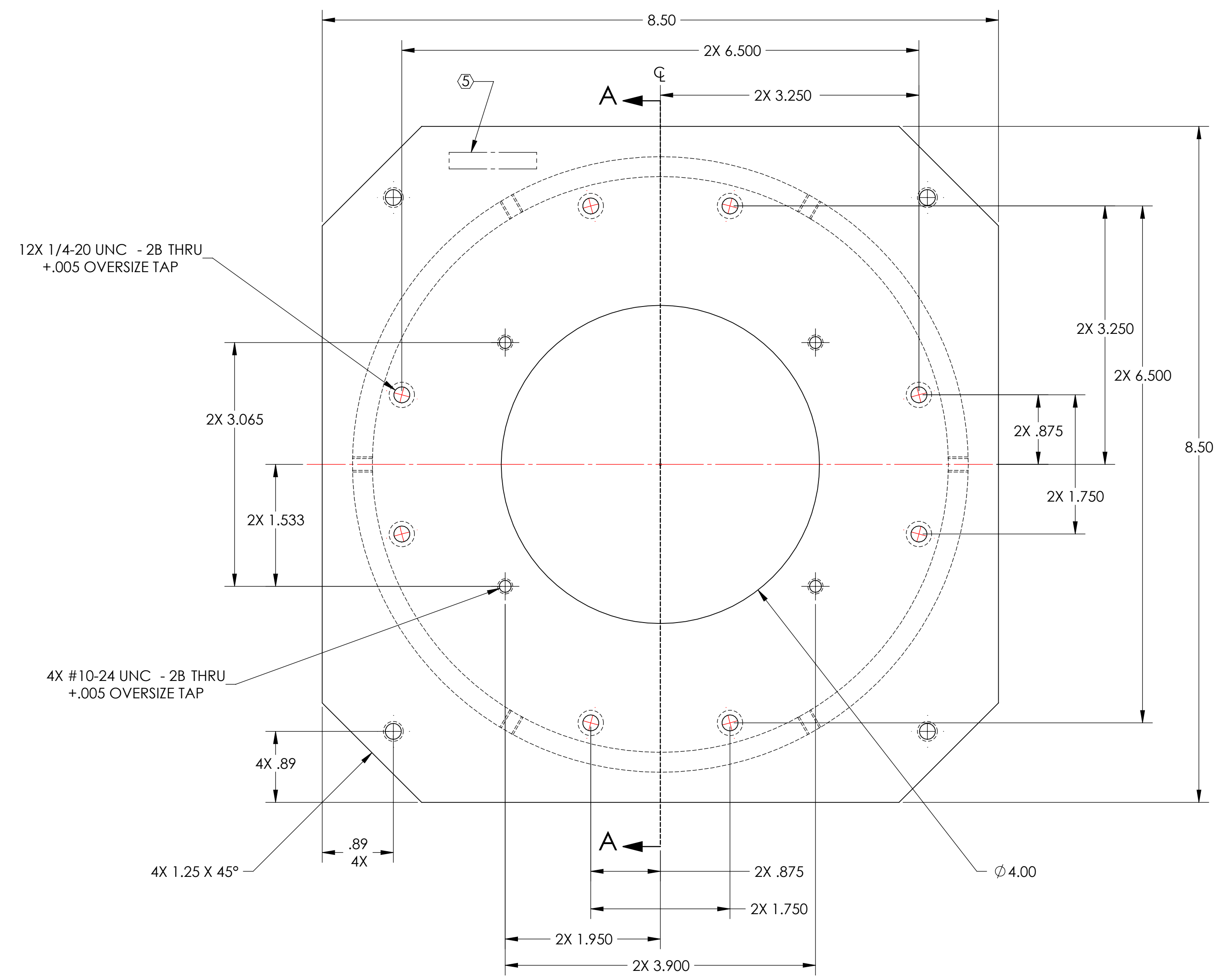
D1000929\_AdlLIGO\_AOS\_SLC Copper Support Plate, PART PDM REV: X-005, DRAWING PDM REV: X-005

NOTES CONTINUED:  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX  
 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	03 JUN 2010	E1000285	



NO SCALE  
 FOR REFERENCE ONLY



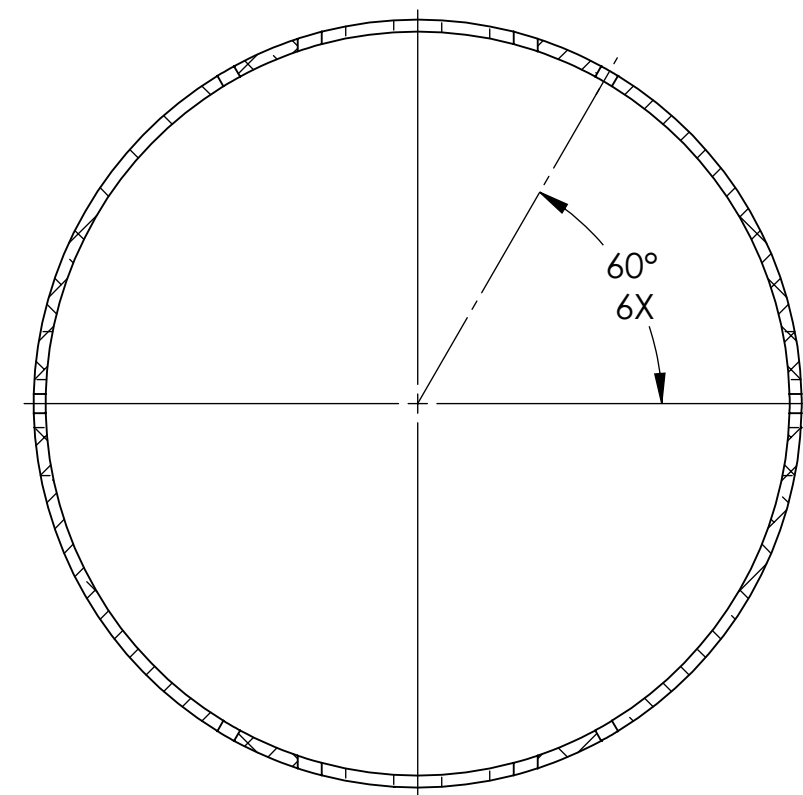
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		<b>SLC DAMPING TUBE LOWER PLATE</b>	
MATERIAL		FINISH		NEXT ASSY		DESIGNER	SIZE
6061-T6 Al		63 $\mu$ inch		D1002563		N. Nguyen	01 Jun 2010
						DRAFTER	DATE
						TQ. NGUYEN	15 JUL 2010
						CHECKER	SCALE
						M. SMITH	01 NOV 2010
						APPROVAL	PROJECTION
						D. COYNE	10 NOV 2010
						DWG. NO.	
						D D1002617	
						REV.	
						v1	
						SHEET 1 OF 1	

NOTES CONTINUED:  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

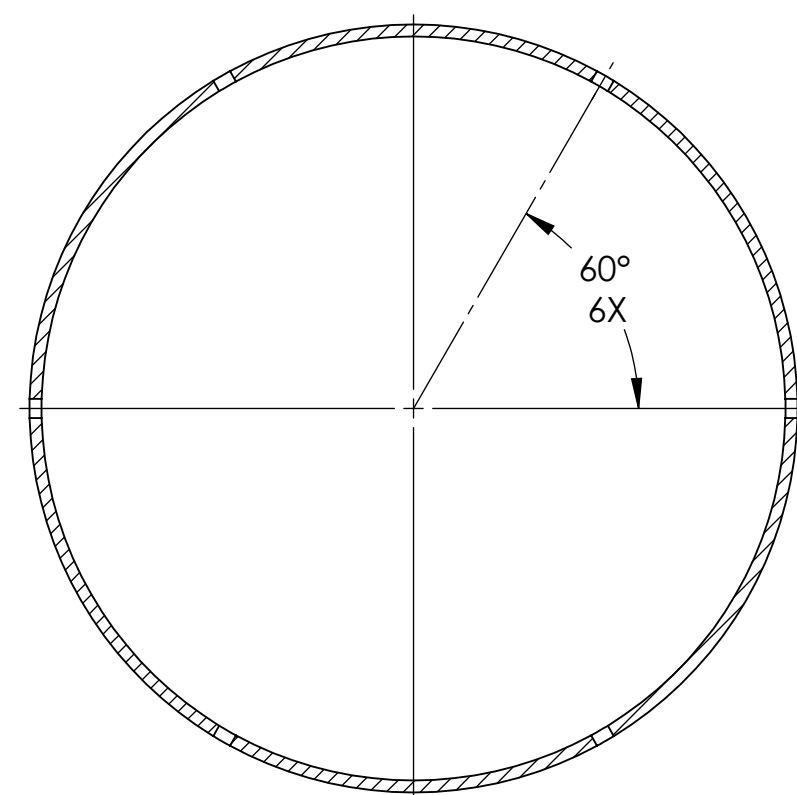
6. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.  
 7. ELECTROPOLISHING PER E0900364, SECTION 5.1, TO REMOVE ALL SURFACE OXIDES AND POTENTIALLY EMBEDDED CONTAMINANTS.

8. SUGGESTING RESOURCE:  
 COAST ALUMINUM AND ARCM  
 P/N 818TB61  
 Phone: 800-810 6061  
 Fax: 562-946 4188

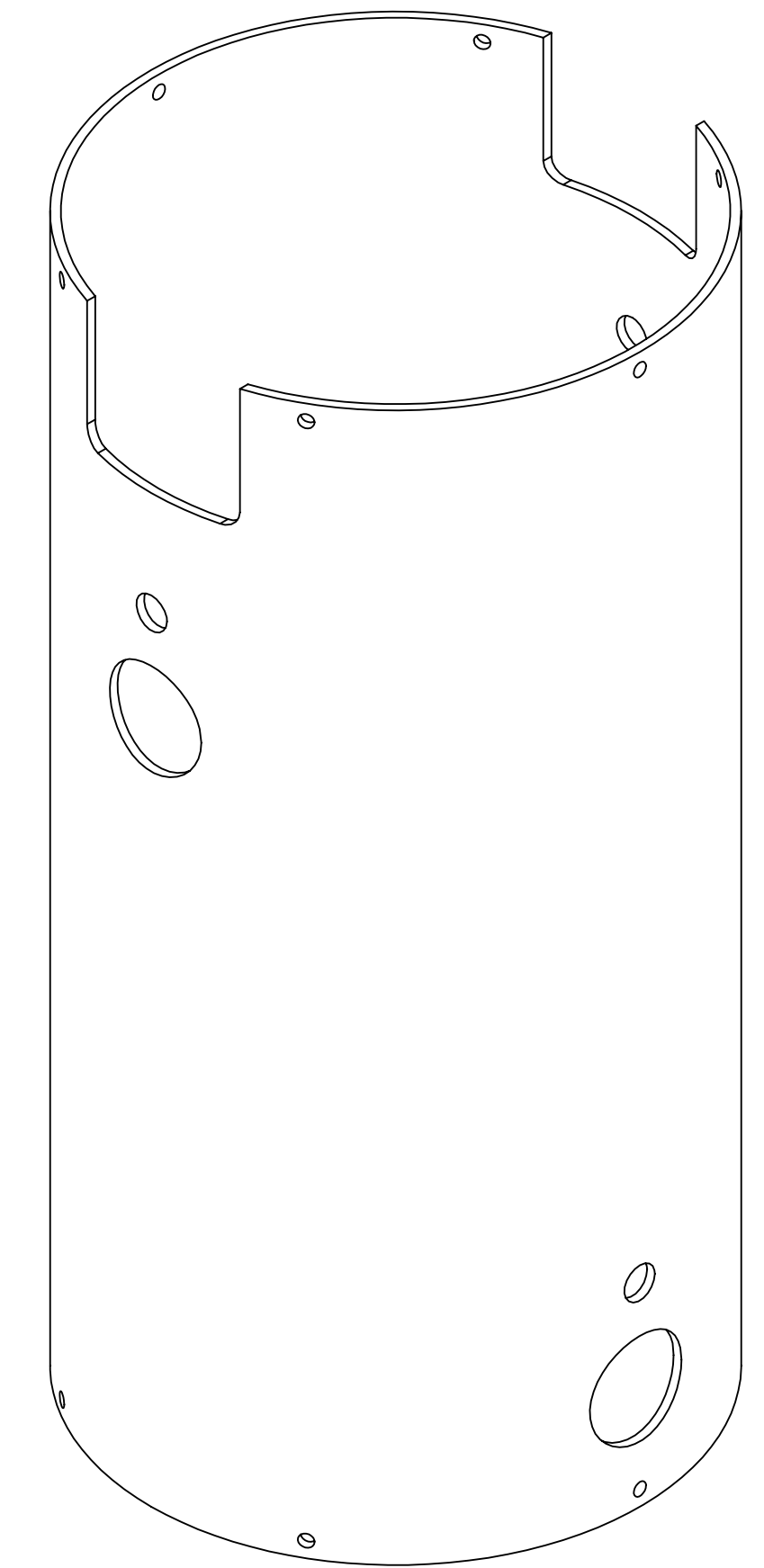
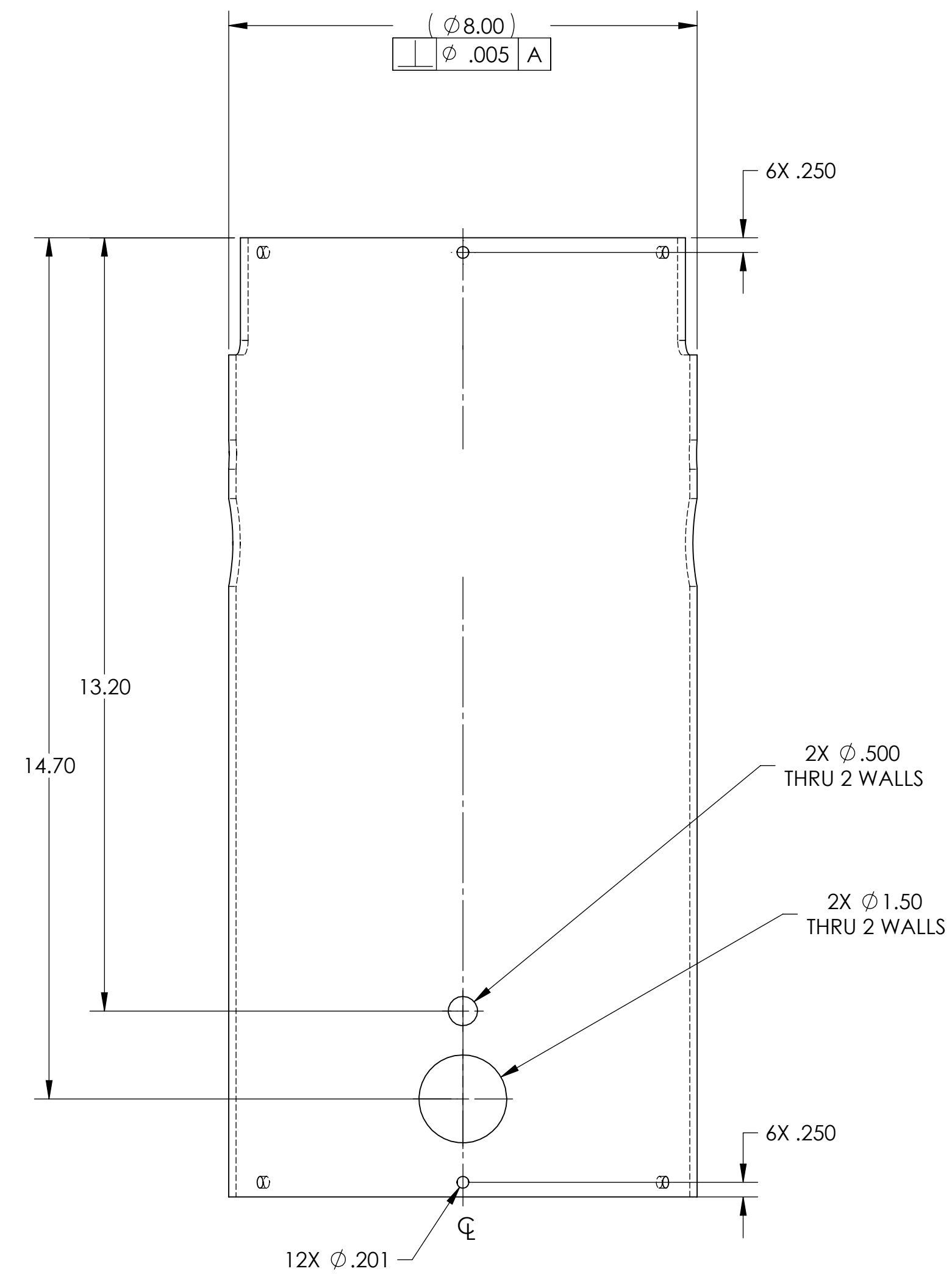
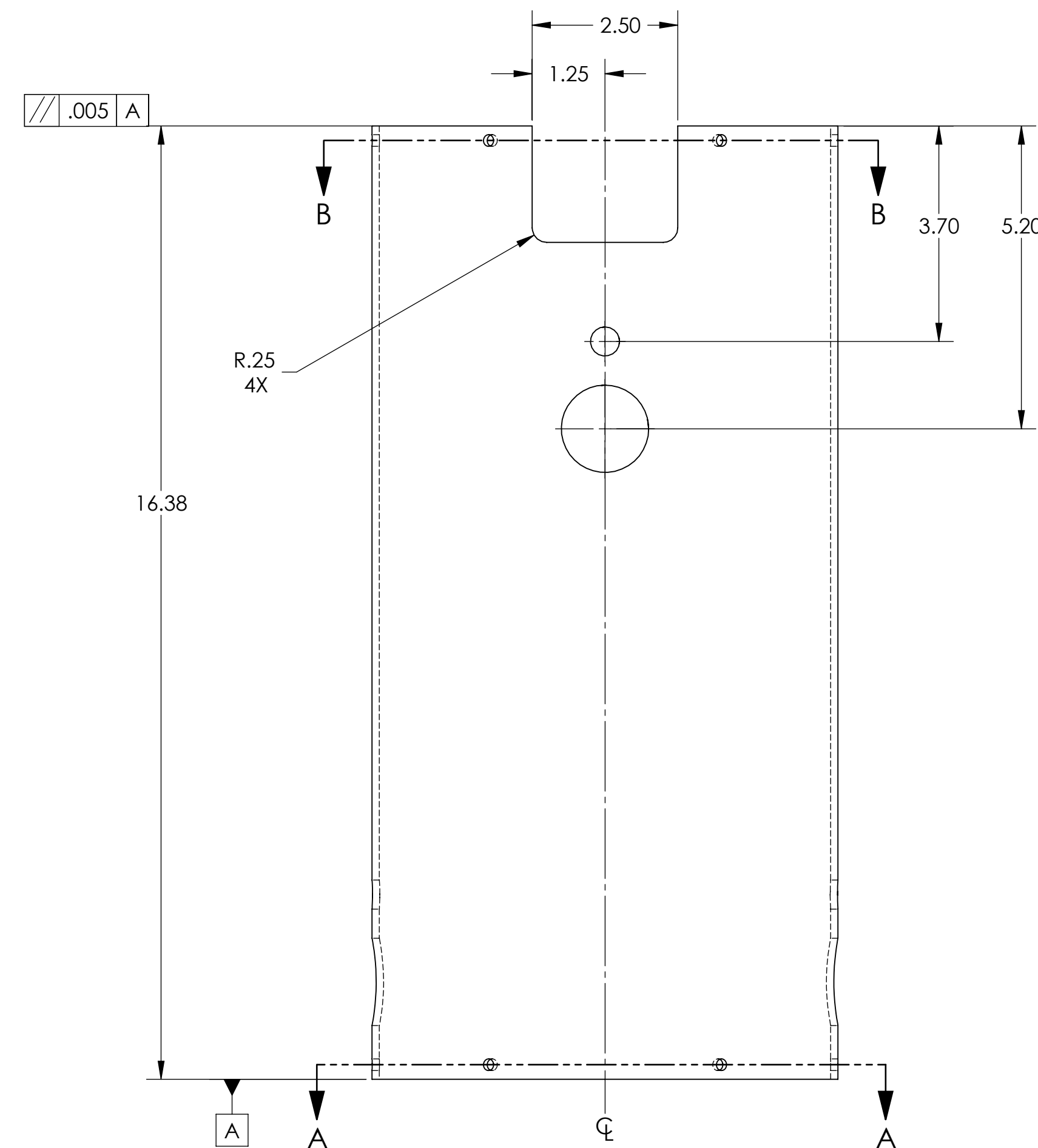
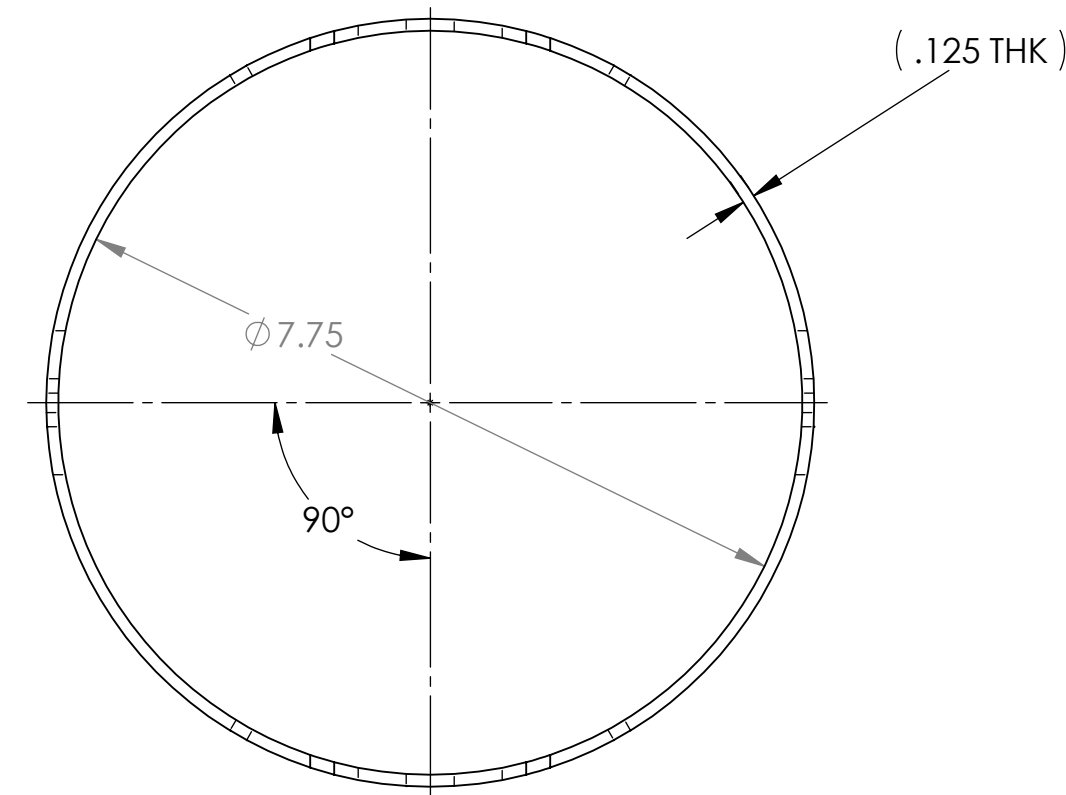
REV.	DATE	DCN #	DRAWING TREE #
v1	03 JUN 2010	E1000285	-
-	-	-	-
-	-	-	-



SECTION B-B



SECTION A-A



FOR REFERENCE ONLY  
NO SCALE

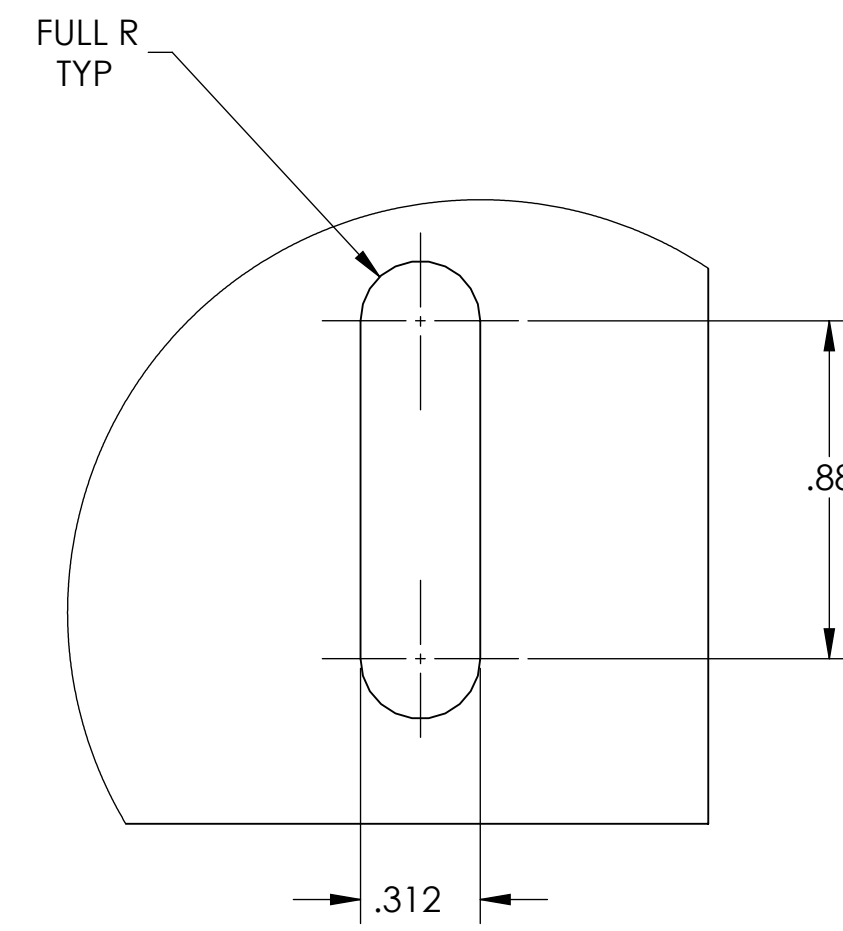
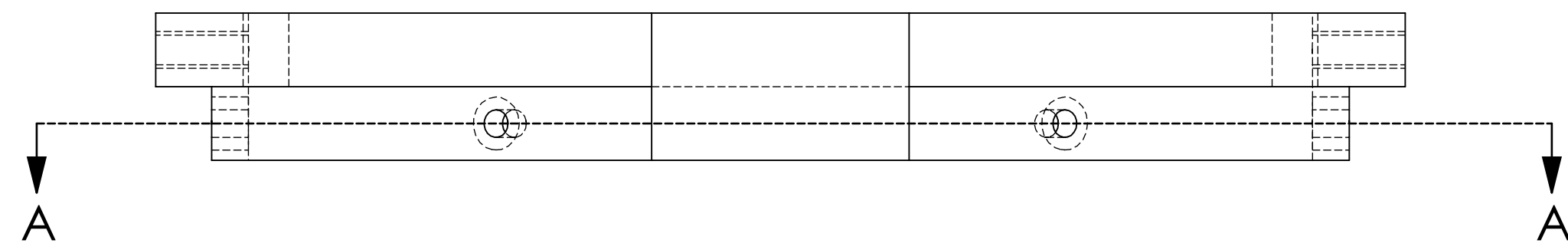
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY				PART NAME			
DIMENSIONS ARE IN INCHES				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.				SLC DAMPING 8 DIA TUBE			
TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°								SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
MATERIAL 6061-T6 Al				FINISH 63 μinch		NEXT ASSY D1002563		CHECKER M. SMITH		DATE 01 NOV 2010 SCALE: 1:2 PROJECTION:	
								APPROVAL D. COYNE		DATE 10 NOV 2010 SHEET 1 OF 1	

D:\002561\_Audi\GO\_AOS\_SLC Damping 8 Dia Tube\_PART PDM REV: X-003\_DRAWING PDM REV: X-008

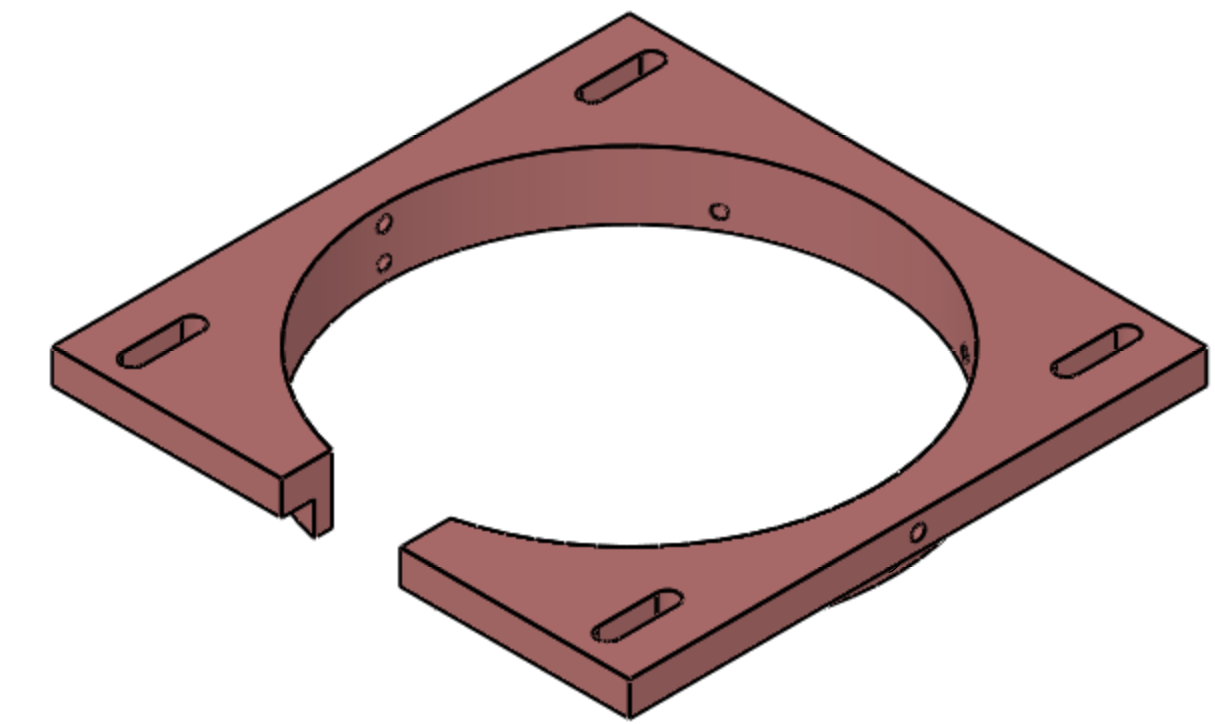
NOTES CONTINUED:  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY.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

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

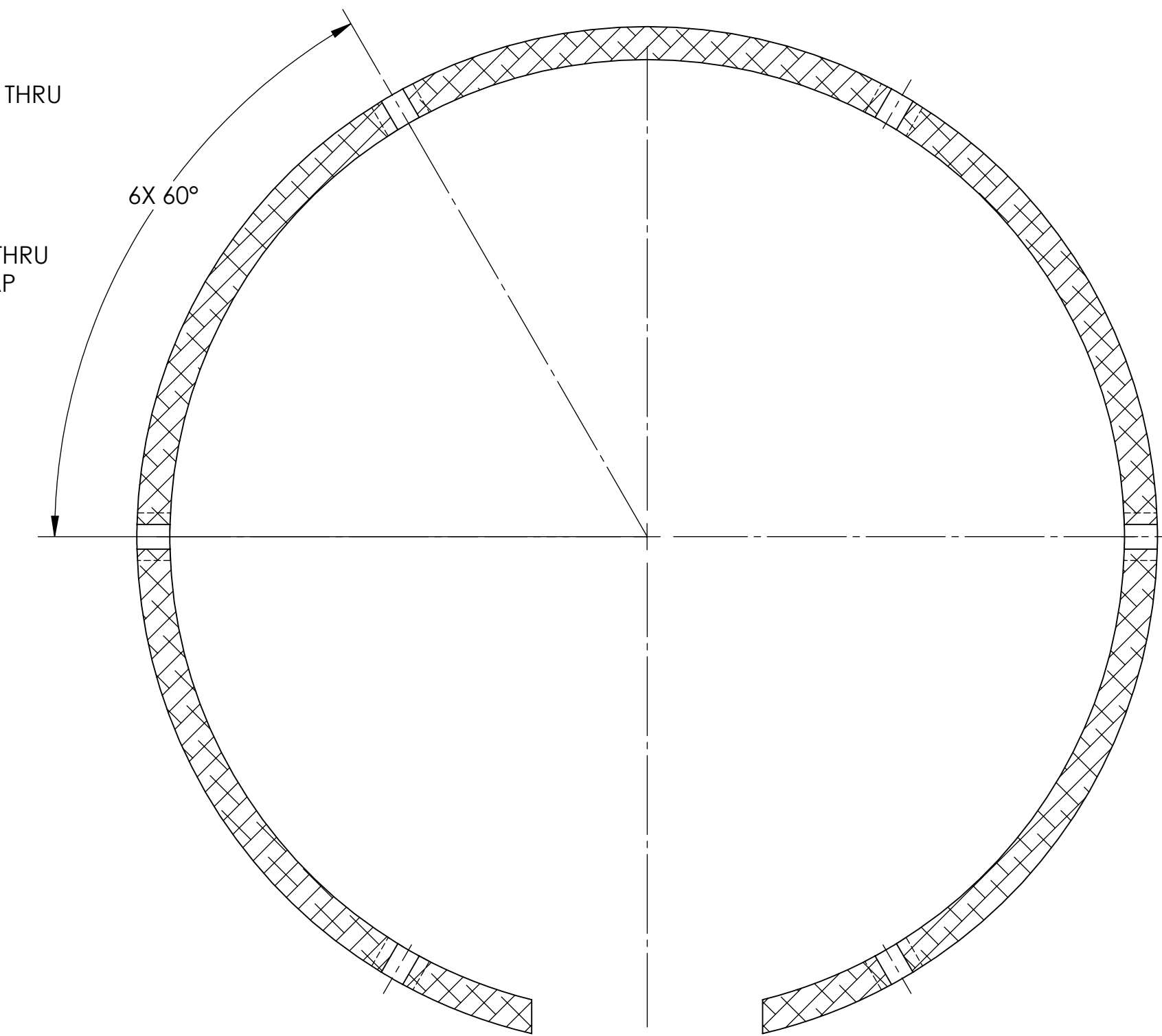
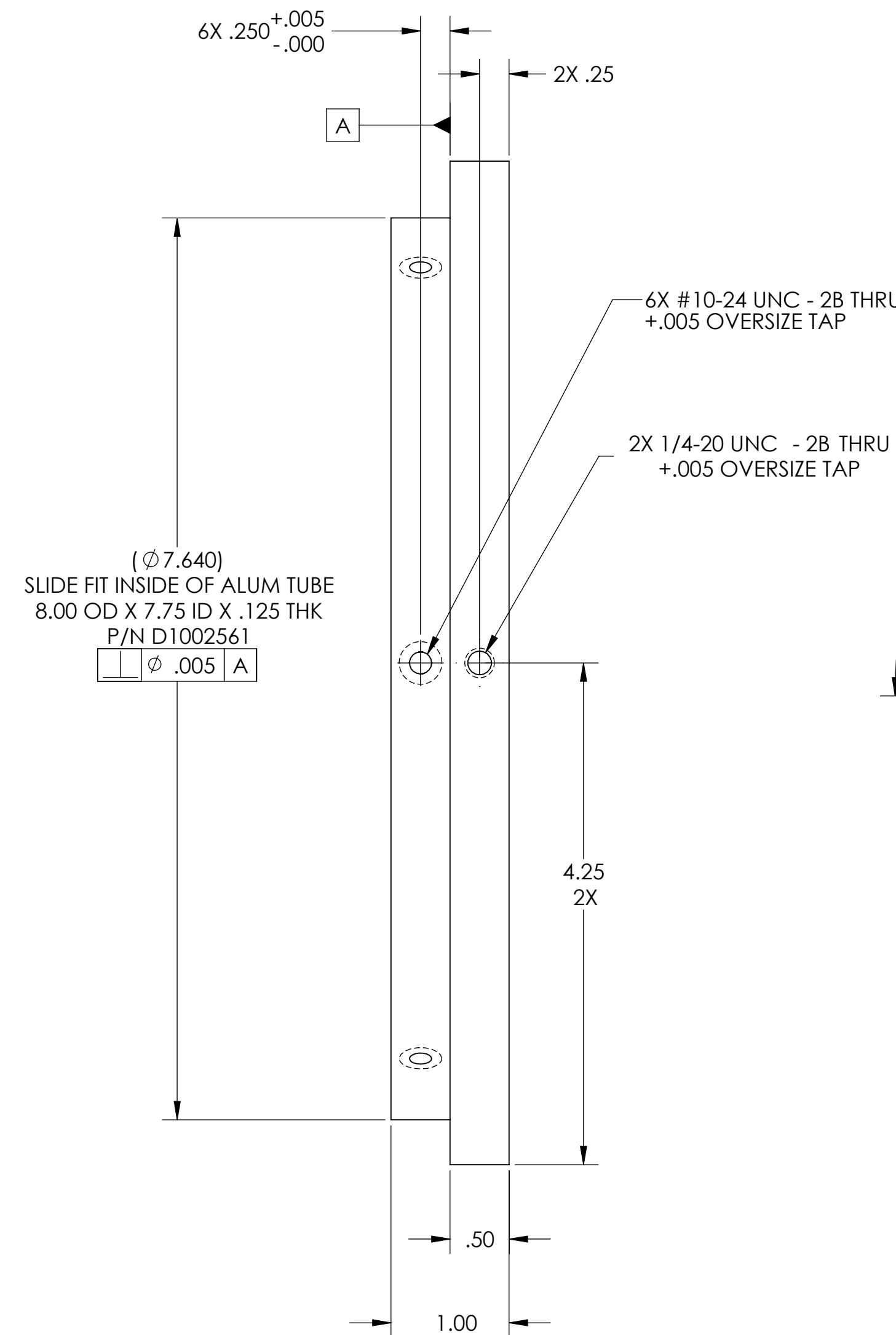
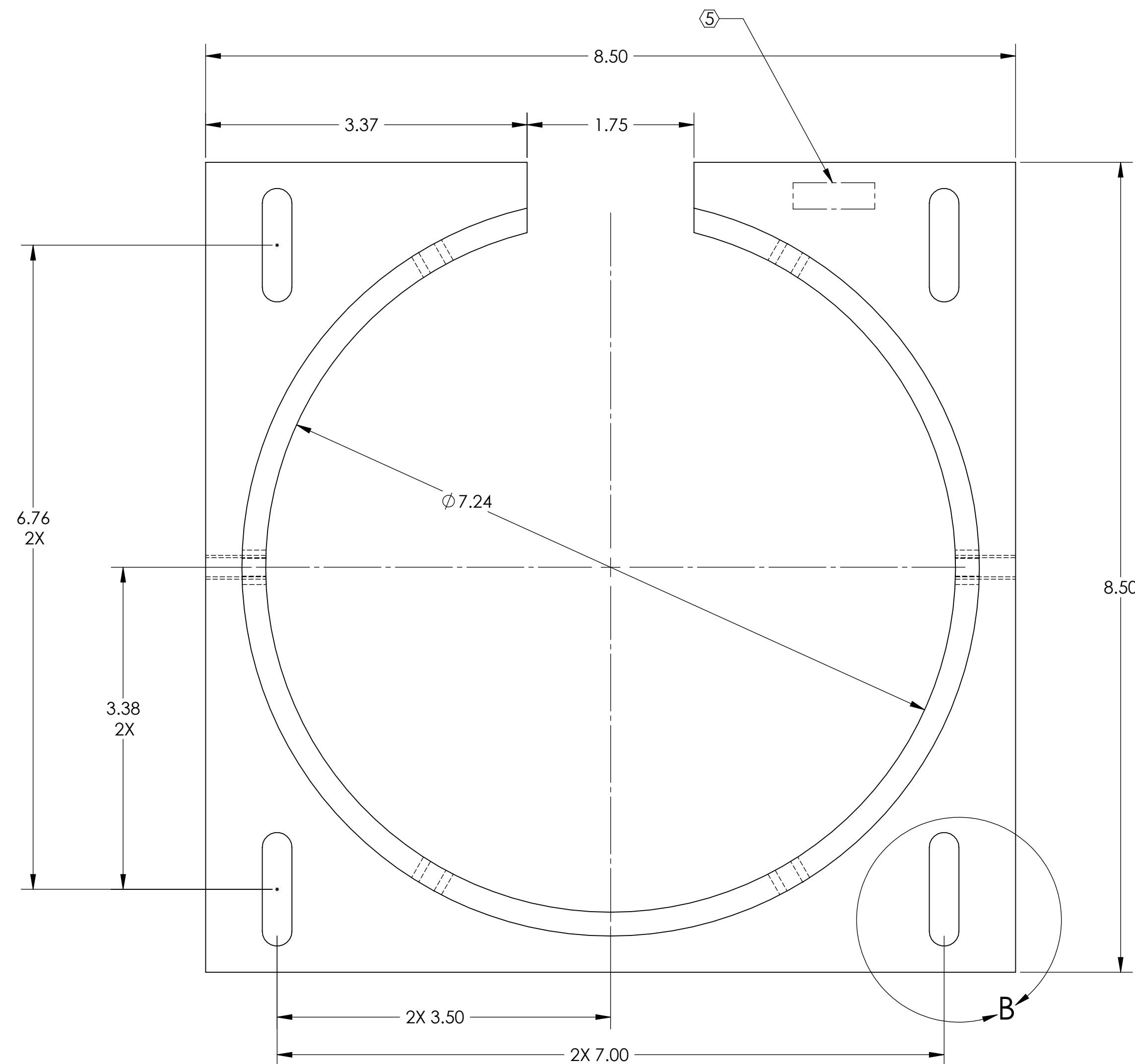
REV.	DATE	DCN #	DRAWING TREE #
v1	03 JUN 2010	E1000285	



DETAIL B  
SCALE 2 : 1  
4X



FOR REFERENCE VIEW ONLY  
NO SCALE



SECTION A-A

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± .01 .XXX ± .005	
ANGULAR ± .5°	
MATERIAL	FINISH
6061-T6 Al	63 μinch

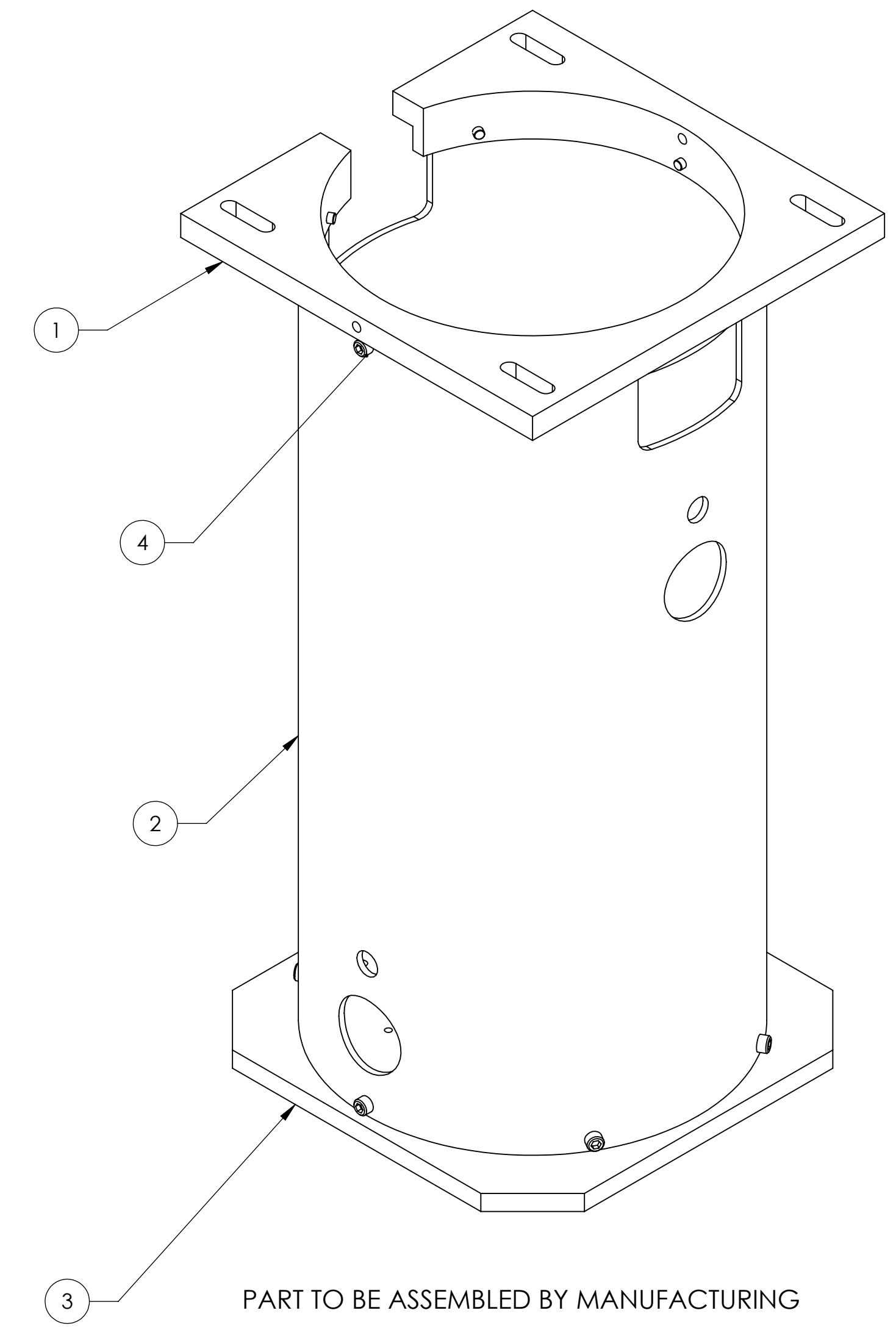
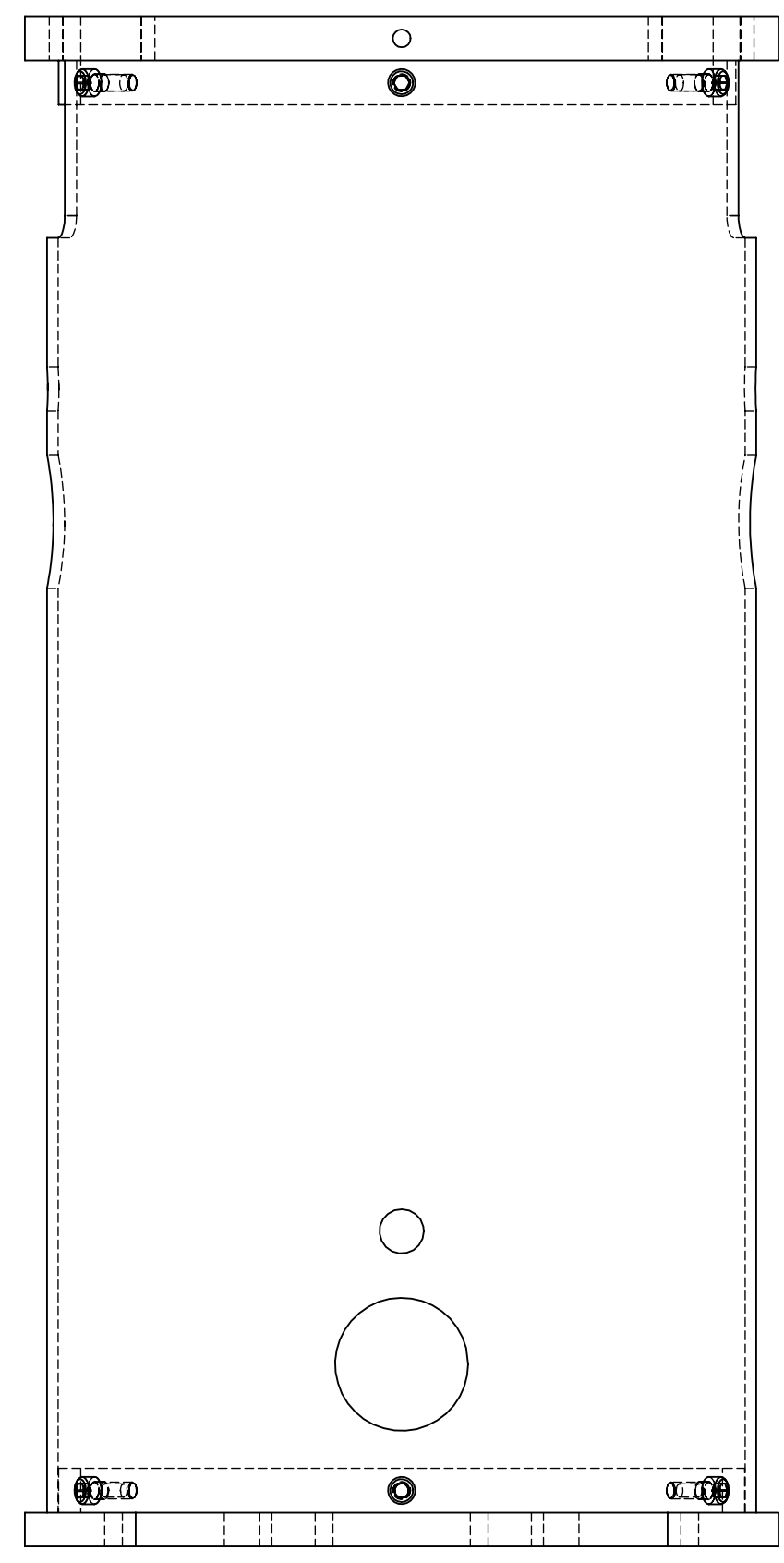
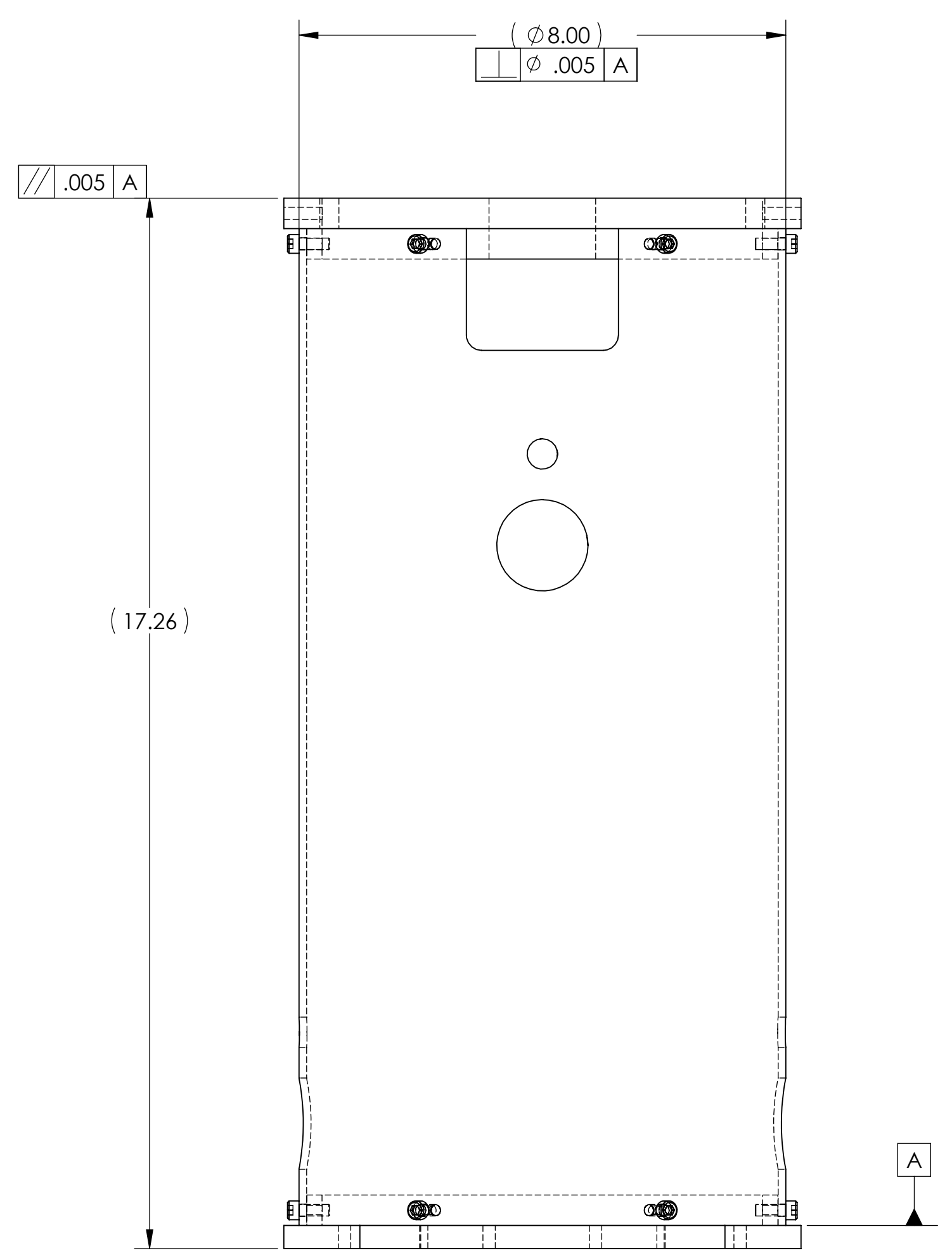
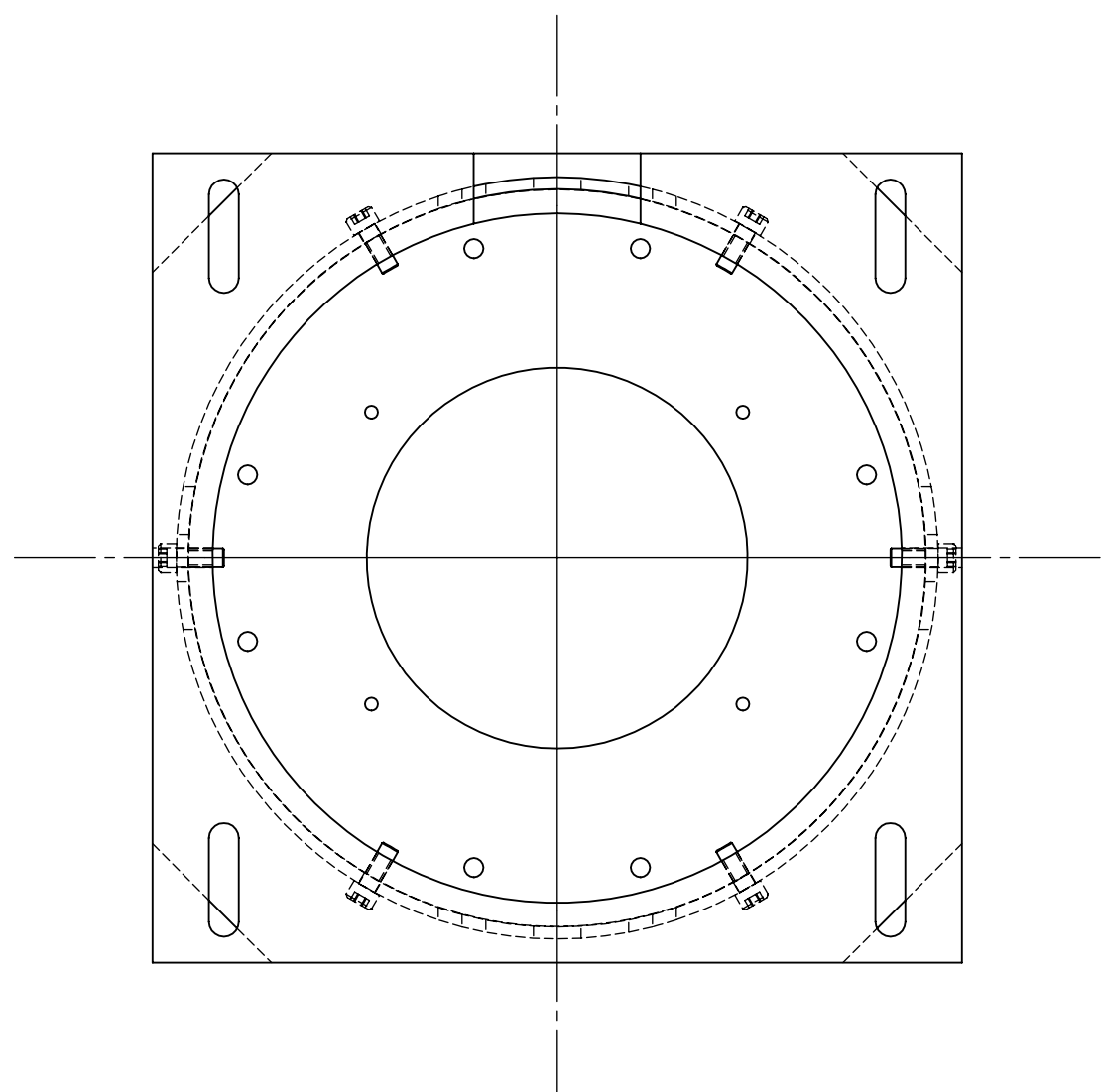
CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SYSTEM	SUB-SYSTEM
ADVANCED LIGO	AOS
NEXT ASSY	D1002563

PART NAME				SLC DAMPING TUBE TOP PLATE			
DESIGNER	N.Nguyen	01 Jun 2010	SIZE	DWG. NO.	REV.		
DRAFTER	TG. NGUYEN	21 MAY 2010	D	D1002560	v1		
CHECKER	M. SMITH	01 NOV 2010	SCALE: 1:1	PROJECTION:	SHEET 1 OF 1		
APPROVAL	D. COYNE	10 NOV 2010					

D1002560\_Aut LIGO\_AOS\_SLC Damping Tube Top Plate\_PART PDM REV: X.008\_DRAWING PDM REV: X.007

NOTES CONTINUED:

REV.	DATE	DCN #	DRAWING TREE #
v1	02 JUN 2010	E1000285	E1000647



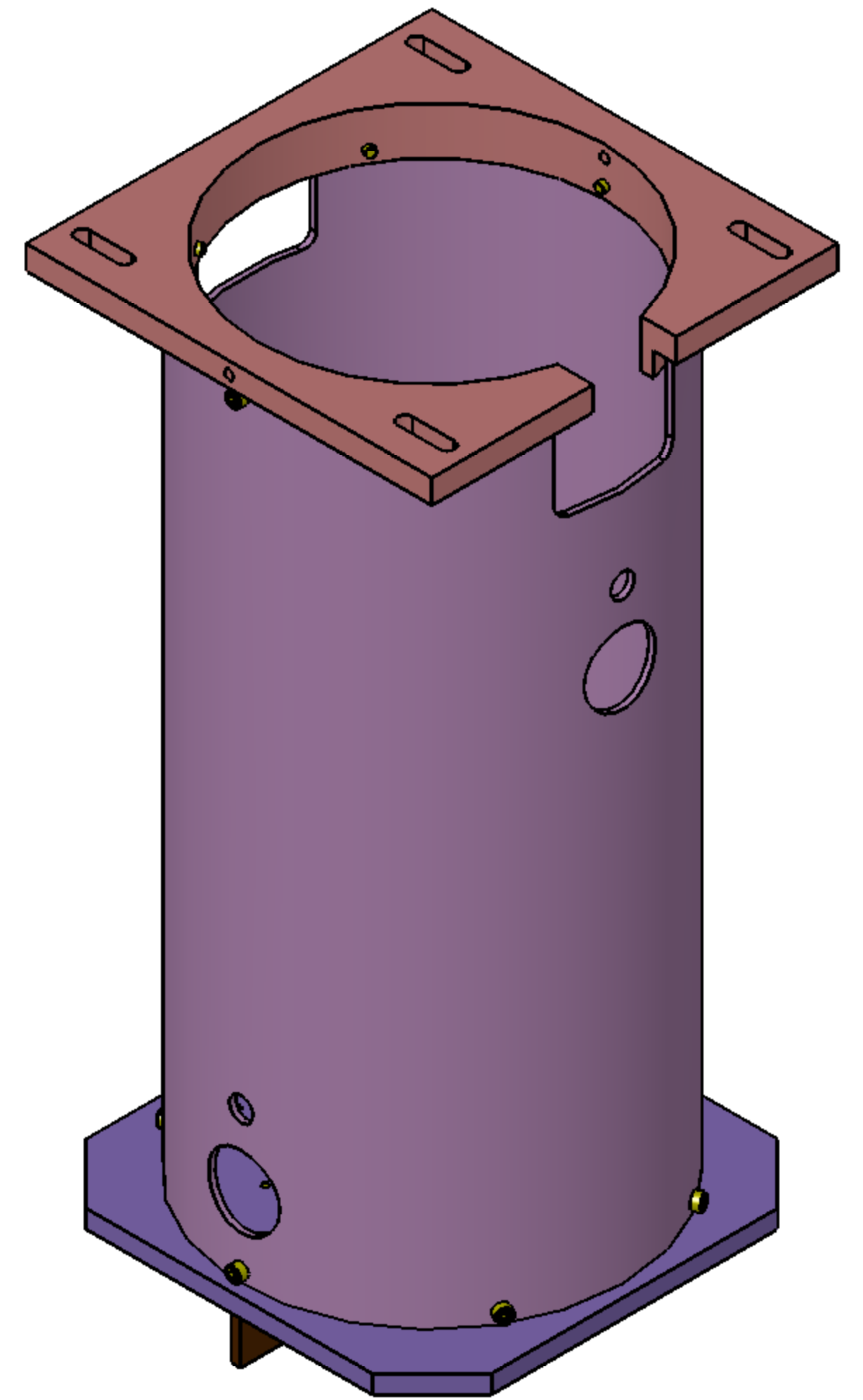
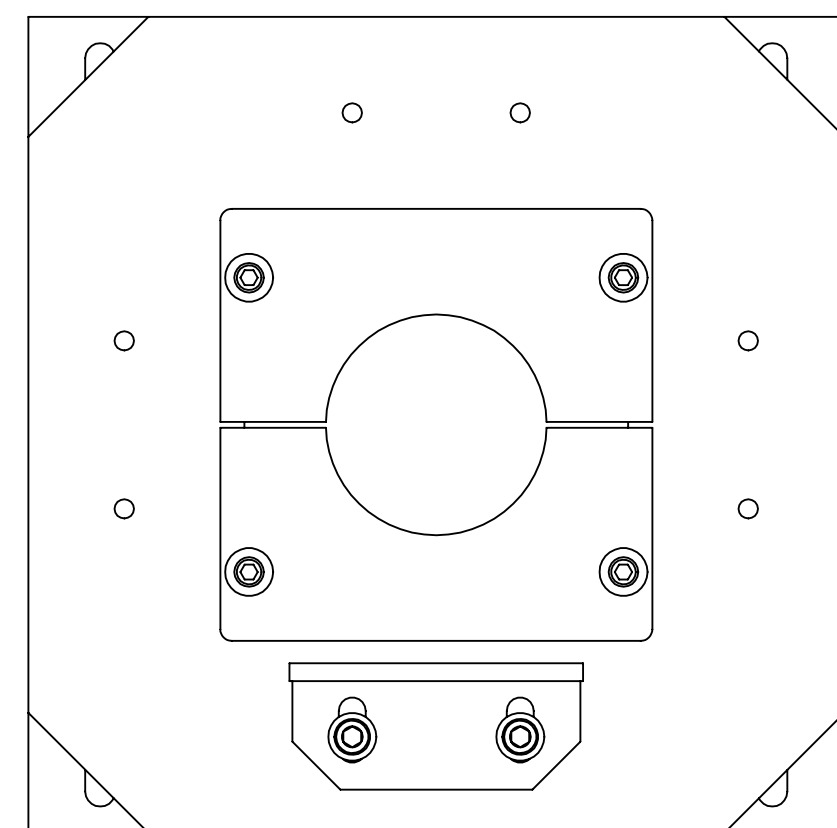
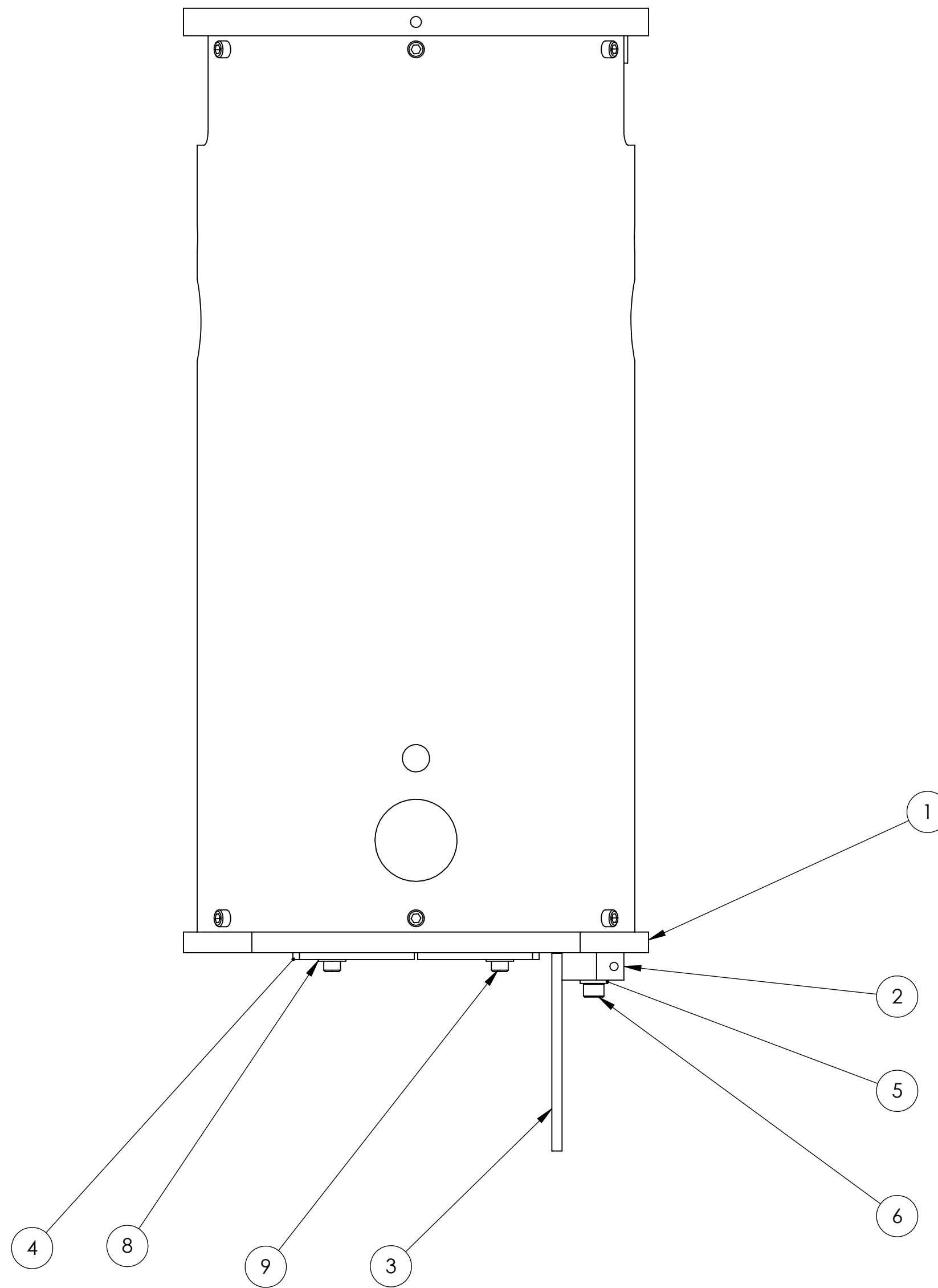
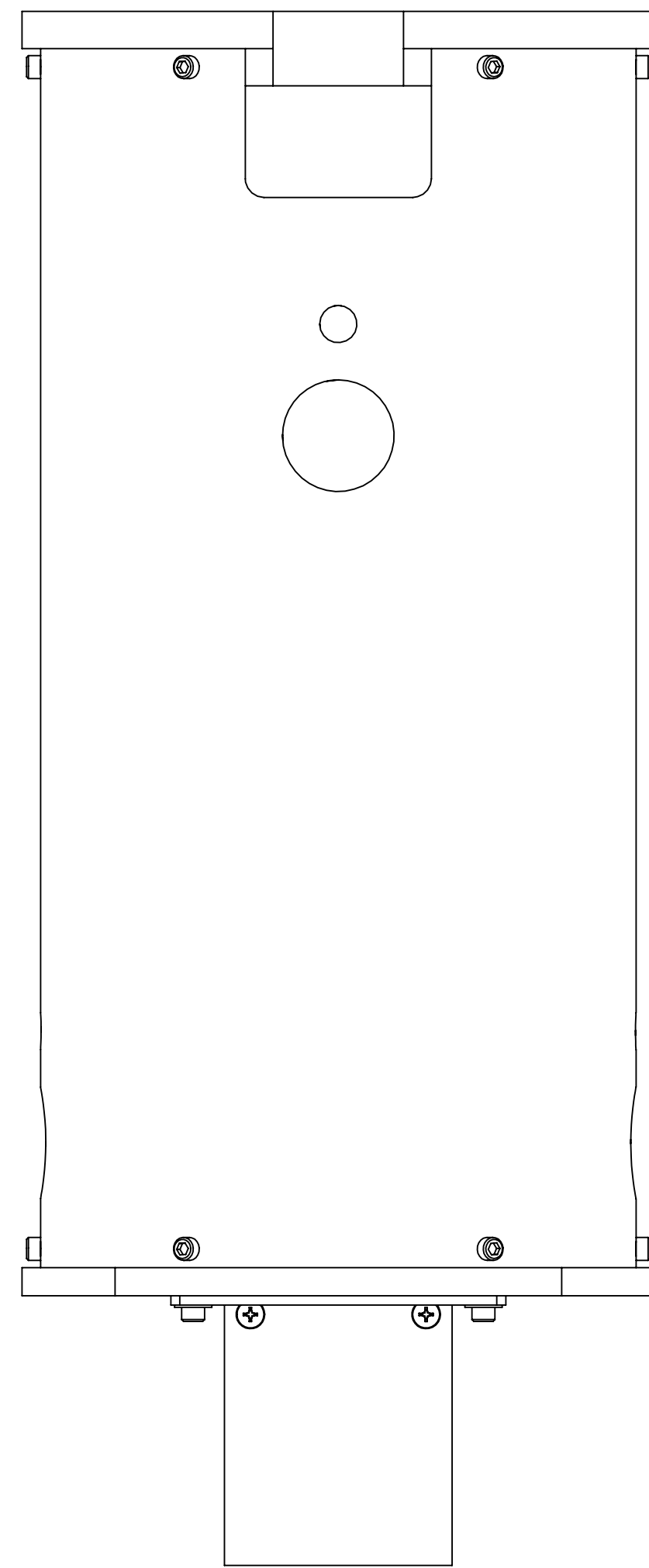
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
4	92196A242	SCREW, SOCKET HEAD CAP, #10-24 UNC-2A X 0.5 LONG, McMASTER	18-8 SSSL	12	6	18
3	D1002617	SLC DAMPING TUBE LOWER PLATE	6061-T6 Al	1		1
2	D1002561	SLC DAMPING 8 DIA TUBE	6061-T6 Al	1		1
1	D1002560	SLC DAMPING TUBE TOP PLATE	6061-T6 Al	1		1

<p>NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)</p> <p>1. INTERPRET DRAWING PER ASME Y14.5-1994.</p> <p>2. REMOVE ALL SHARP EDGES, R.02 MIN.</p> <p>3. DO NOT SCALE FROM DRAWING.</p> <p>4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.</p>		<p><b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY</p>		<p>PART NAME <b>SLC DAMPING 8 DIA TUBE ASSEMBLY</b></p>	
<p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES: .XX ± .XXX ±</p> <p>ANGULAR ± °</p>		<p>MATERIAL N/A</p> <p>FINISH N/A</p>		<p>SYSTEM ADVANCED LIGO</p> <p>SUB-SYSTEM AOS</p> <p>NEXT ASSY D1002564</p>	
<p>DESIGNER N.Nguyen</p> <p>DRAFTER TQ. NGUYEN</p> <p>CHECKER M. SMITH</p> <p>APPROVAL D. COYNE</p>		<p>DESIGNER N.Nguyen</p> <p>DRAFTER TQ. NGUYEN</p> <p>CHECKER M. SMITH</p> <p>APPROVAL D. COYNE</p>		<p>DATE 01 Jun 2010</p> <p>DATE 15 JUL 2010</p> <p>DATE 1 NOV 2010</p> <p>DATE 10 NOV 2010</p>	
<p>SIZE D</p> <p>DWG. NO. <b>D1002563</b></p> <p>REV. v1</p>		<p>SCALE: 1:2</p> <p>PROJECTION:</p>		<p>SHEET 1 OF 1</p>	

D1002563\_AsdLIGO\_AOS\_SLC Damping 8 Dia Tube Assy. PART PDM REV: X.012. DRAWING PDM REV: X.004

NOTES CONTINUED:

REV.	DATE	DCN #	DRAWING TREE #
v1	24 AUG 2010	E1000285	E1000653
-	-	-	-
-	-	-	-



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
9	92200A242	SCREW, SOCKET HEAD CAP, #10-24 UNC-2A X 0.5 LONG, McMASTER MIL 16995	300 SSSL	4	2	6
8	90313A200	WASHER #10, McMASTER	18-8 SSSL	4	2	6
7	90233A815	FLAT HD SCREW # 10-24 X .50, McMASTER	TITANIUM	2	1	3
6	95435A755	SCREW SHCS #.25-20 X .75, McMASTER	TITANIUM	2	1	3
5	93286A044	WASHER #25 ALUM, McMASTER	6061-T6	2	1	3
4	D1001120	SLC EARTHQUAKE STOP RING	6061-T6 Al	2		2
3	D1000909	SLC COPPER PLATE	COPPER	1		1
2	D1000929	SLC COPPER SUPPORT PLATE	6061-T6 Al	1		1
1	D1002563	SLC DAMPING 8 DIA TUBE ASSEMBLY	N/A	1		1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
DIMENSIONS ARE IN INCHES	
TOLERANCES:	
.XX ±	
.XXX ±	
ANGULAR ± °	
MATERIAL	N/A
FINISH	N/A

CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
 SYSTEM: ADVANCED LIGO SUB-SYSTEM: AOS  
 NEXT ASSY: D1001011

PART NAME: SLC EDDY CURRENT DAMPING 8 DIA TUBE ASSY  
 DESIGNER: N.Nguyen 01 Jun 2010  
 DRAFTER: N.Nguyen 24 AUG 2010  
 CHECKER: M. Smith 01 NOV 2010  
 APPROVAL: D. Coyne 10 NOV 2010  
 SIZE: D DWG. NO.: D1002564  
 SCALE: 1:1 PROJECTION: SHEET 1 OF 1

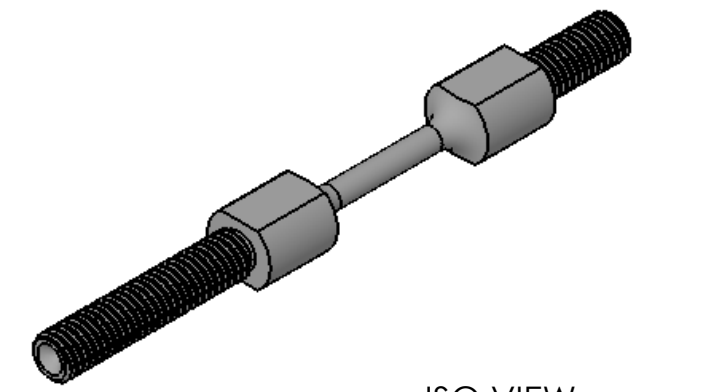
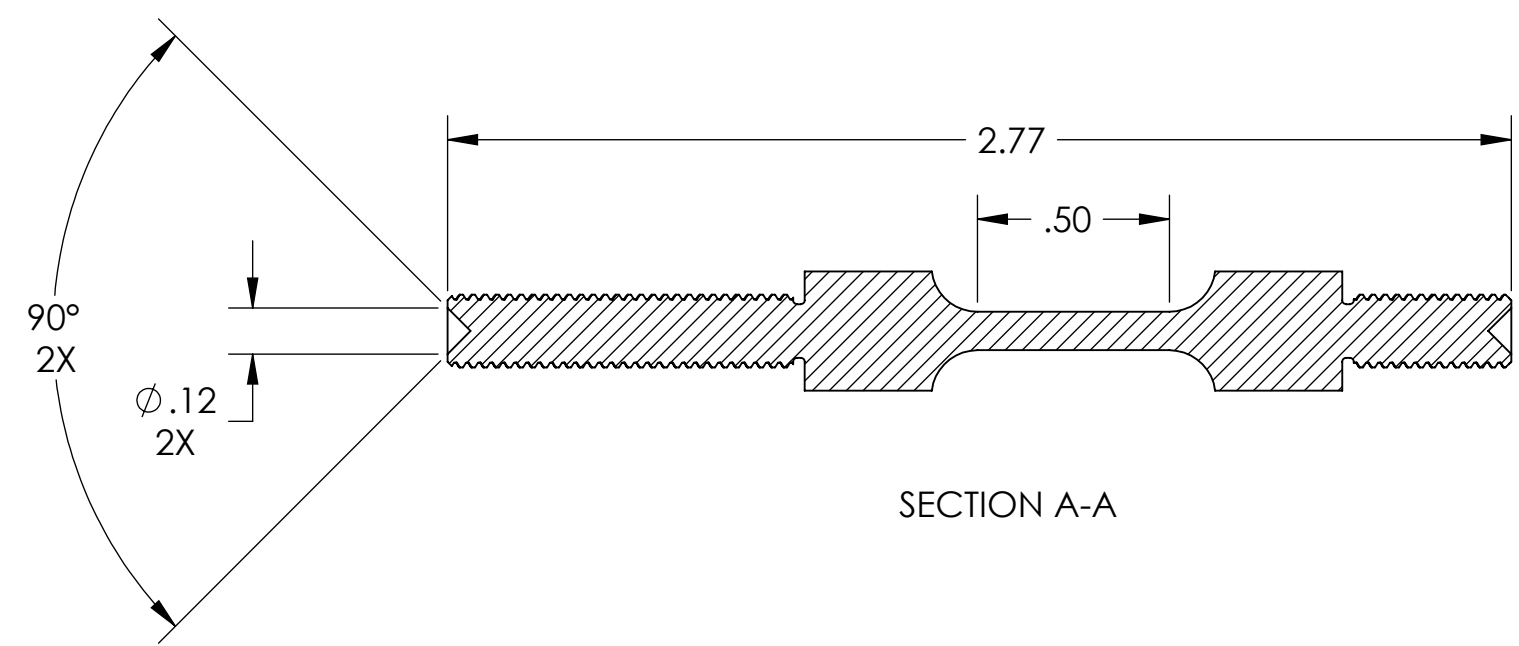
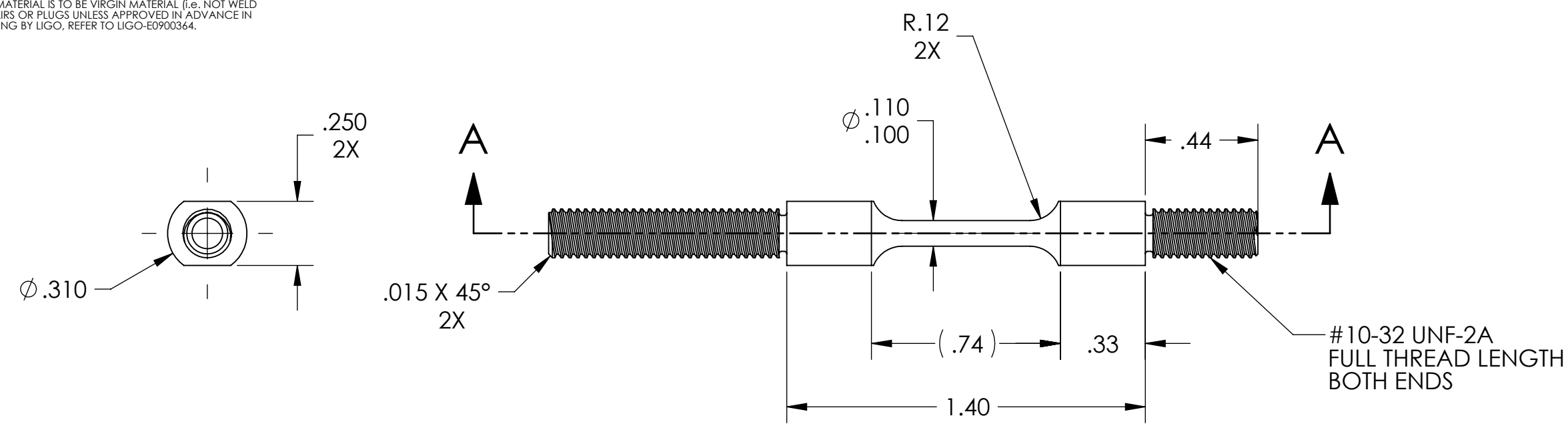
D1002564\_AsdLGO\_AOS\_SLC Eddy Current Damping 8 Dia Tube Assy, PART PDM REV: X-011, DRAWING PDM REV: X-006



**NOTES CONTINUED:**  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.  
 EXAMPLE (PART): 001-v1  
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

6. APPROXIMATE WEIGHT = X.XXX LB.  
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.  
 9. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO, REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	18 OCT 2010	E1000285	-
-	-	-	-
-	-	-	-



ISO VIEW FOR REFERENCE ONLY

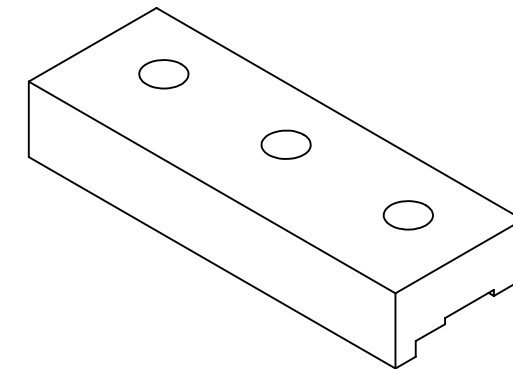
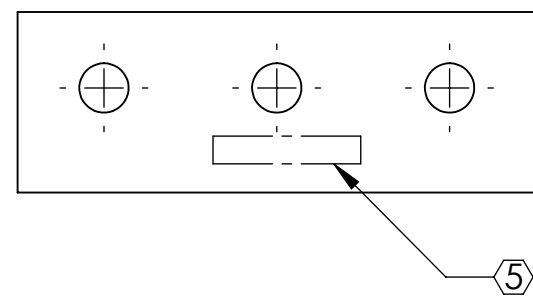
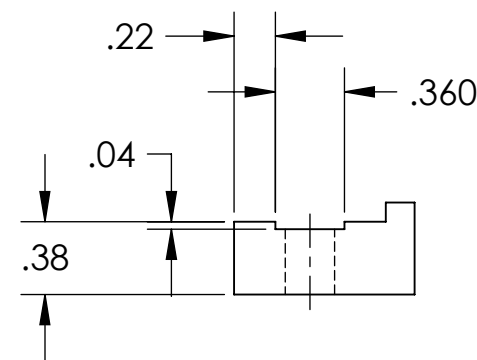
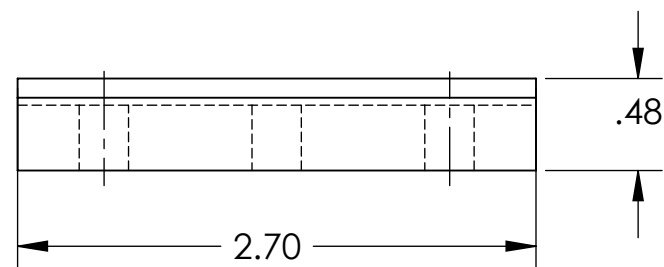
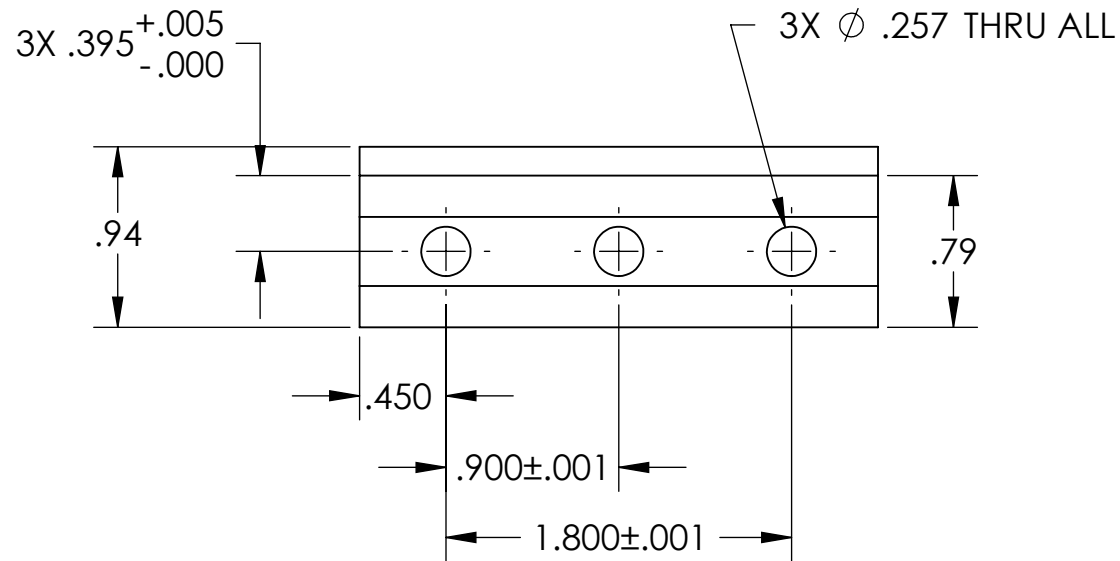
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES				ADVANCED LIGO		SLC ACB SUSPENSION ROD	
TOLERANCES: .XX $\pm .01$ .XXX $\pm .005$				SUB-SYSTEM AOS		DESIGNER N.Nguyen 01 SEP 2010	
ANGULAR $\pm 0.5^\circ$				NEXT ASSY D1001005		DRAFTER TQ. NGUYEN 18 OCT 2010	
MATERIAL 316 SSSL				FINISH 63 $\mu$ inch		CHECKER M. SMITH 01 NOV 2010	
						APPROVAL D. COYNE 10 NOV 2010	
						SCALE: 2:1	
						PROJECTION:	
						SHEET 1 OF 1	

D1002340\_AdlIGO\_AOS\_SLC Suspension Rod, PART PDM REV: X-005, DRAWING PDM REV: X-011

**NOTES CONTINUED:**  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

- 6. APPROXIMATE WEIGHT = X.XXX LB.
- 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
- 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
- 9. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO, REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	03 AUG 2010	E1000285	



D1002844\_AdlLIGO\_AOS\_SLC\_ACB Blade Clamp, PART PDM REV: X-001, DRAWING PDM REV: X-001

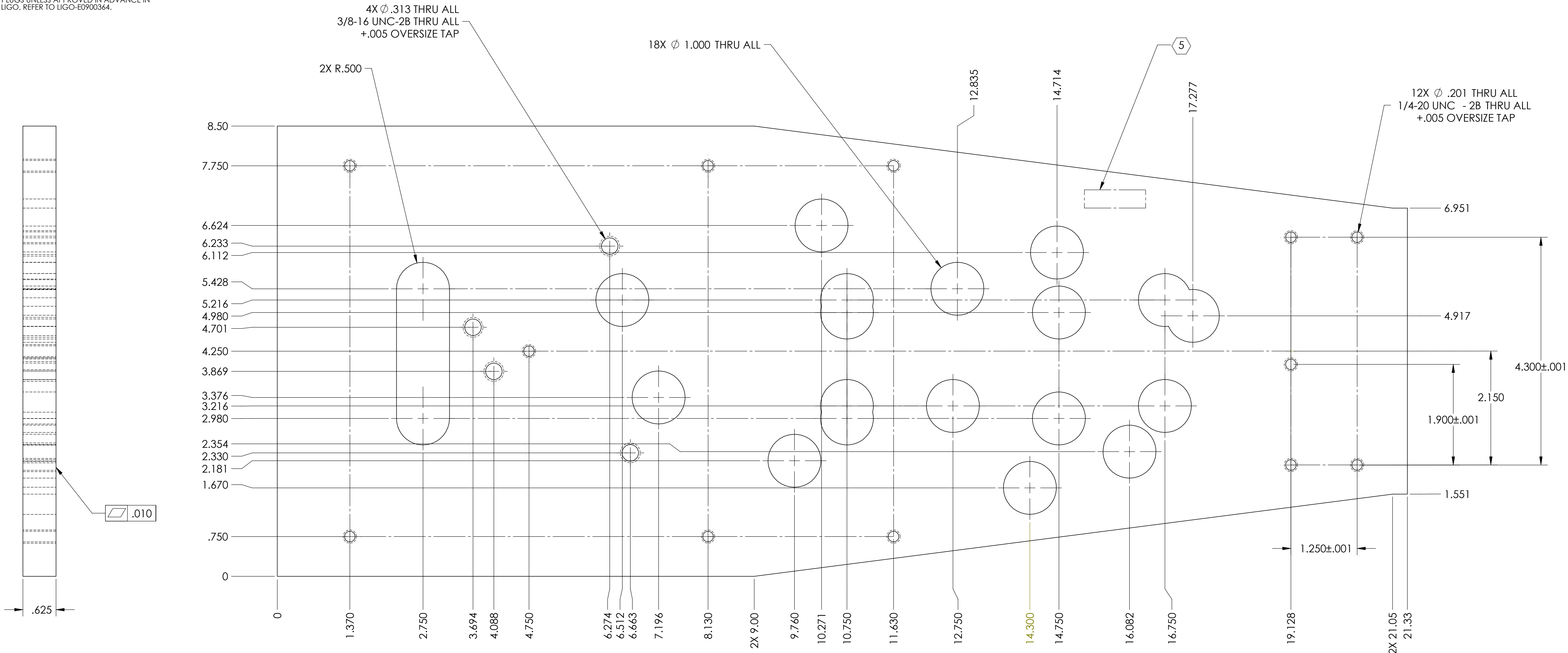
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SLC ACB BLADE CLAMP	
MATERIAL 6061-T6 Al		FINISH 63 μinch		SYSTEM ADVANCED LIGO SUB-SYSTEM AOS		DESIGNER N.Nguyen 01 Jun 2010	
NEXT ASSY D1001005		SCALE: 1:1		DRAFTER TQ. NGUYEN 25 MAY 2010		SIZE DWG. NO. B D1002844	
				CHECKER M. SMITH 30 JUN 2010		REV. v1	
				APPROVAL D. COYNE 10 SEP 2010		SHEET 1 OF 1	

NOTES CONTINUED:  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. APPROXIMATE WEIGHT = 26.25 LB.  
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

9. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO. REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 SEP 2010	E1000285	



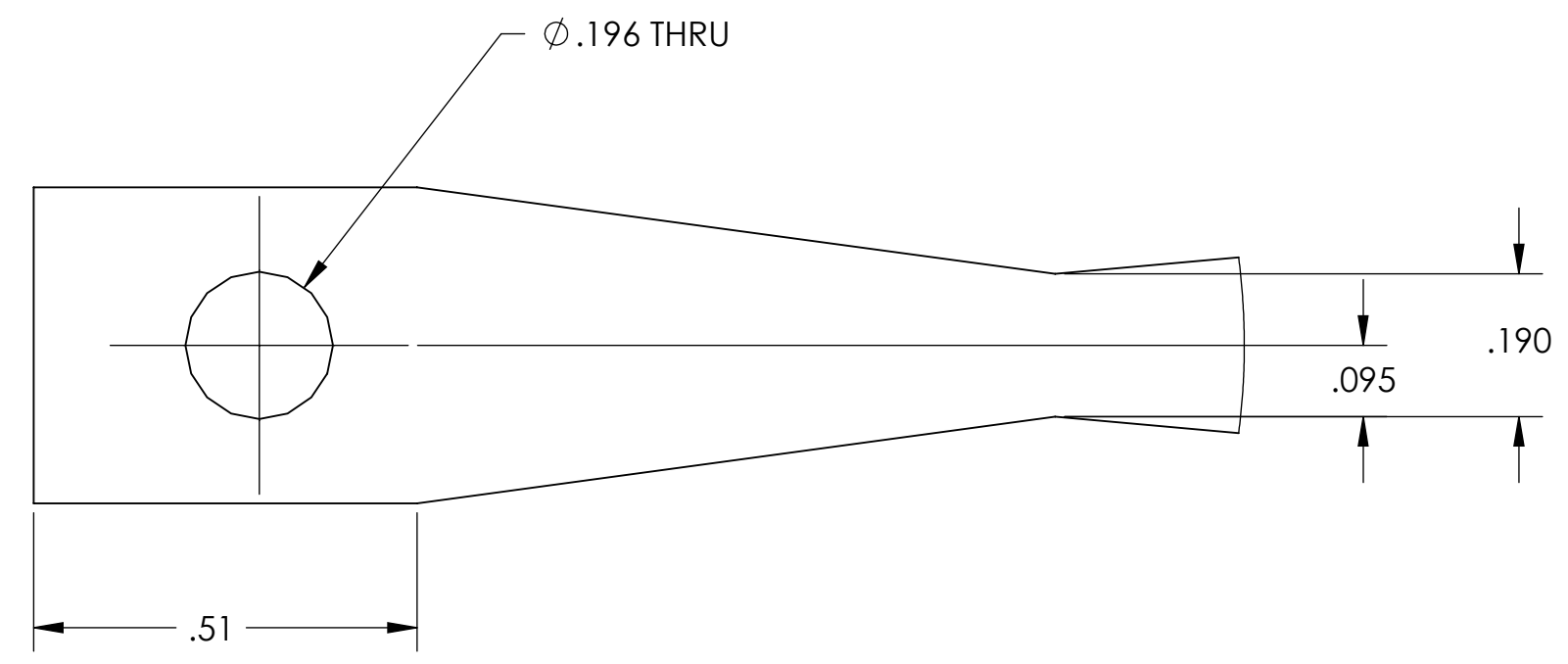
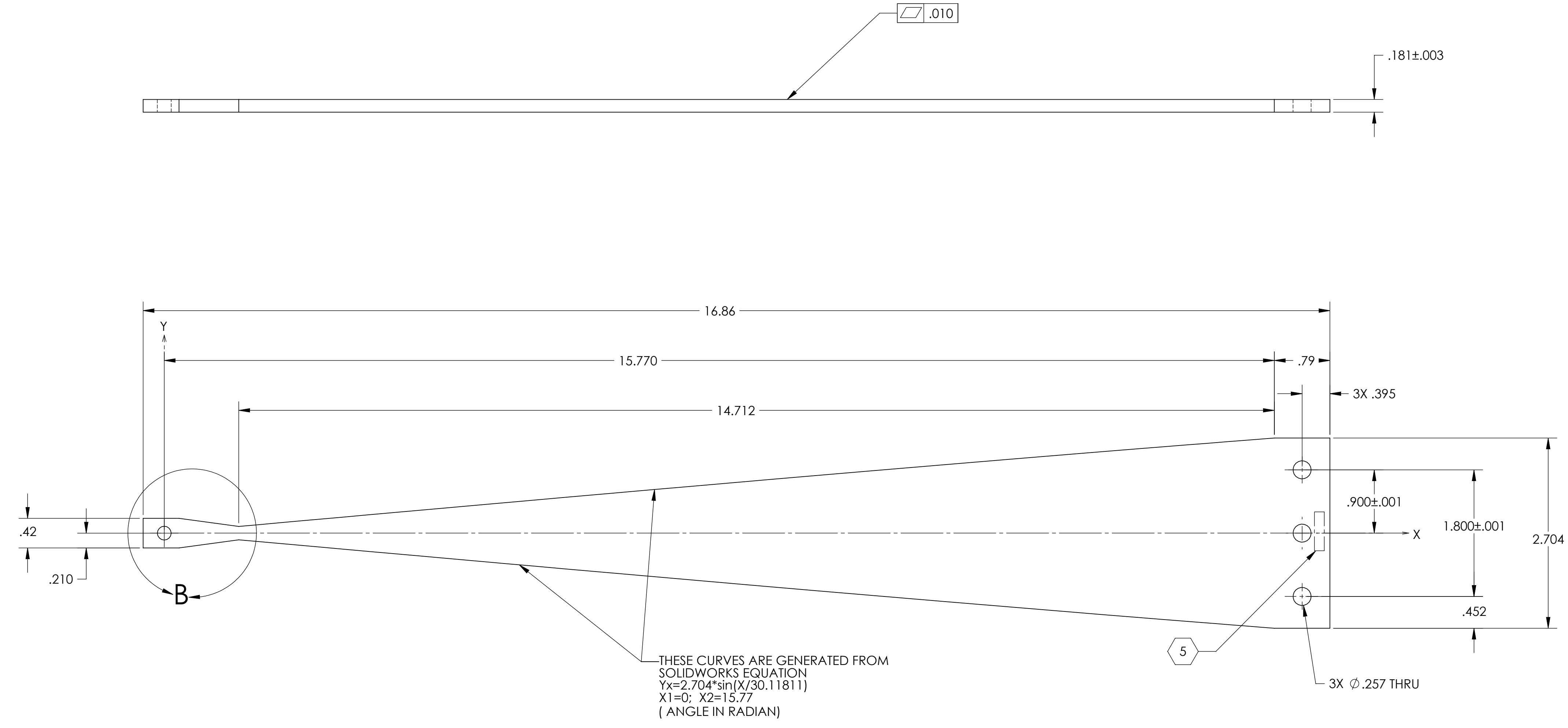
D1001138\_AduLIGO\_AOS\_SLC ACB Interface Mounting Plate PART PDM REV: X-031 DRAWING PDM REV: X-017

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME						
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		<b>SLC ACB INTERFACE MTG PLATE</b>						
MATERIAL		FINISH		SYSTEM		SUB-SYSTEM		DESIGNER	DATE	SIZE	DWG. NO.	REV.
304 SSSL		63 μinch		ADVANCED LIGO		AOS		N.Nguyen	07 SEP 2010	D	D1001138	v1
NEXT ASSY				D1001005		CHECKER		M. SMITH	01 NOV 2010	SCALE: 1:2		
APPROVAL				D. COYNE		15 NOV 2010		PROJECTION:		SHEET 1 OF 1		

NOTES CONTINUED:  
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) 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, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. PART TO BE HEAT TREATED AND PLATED IN ACCORDANCE WITH LIGO SPECIFICATION E090023-V10.  
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.  
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

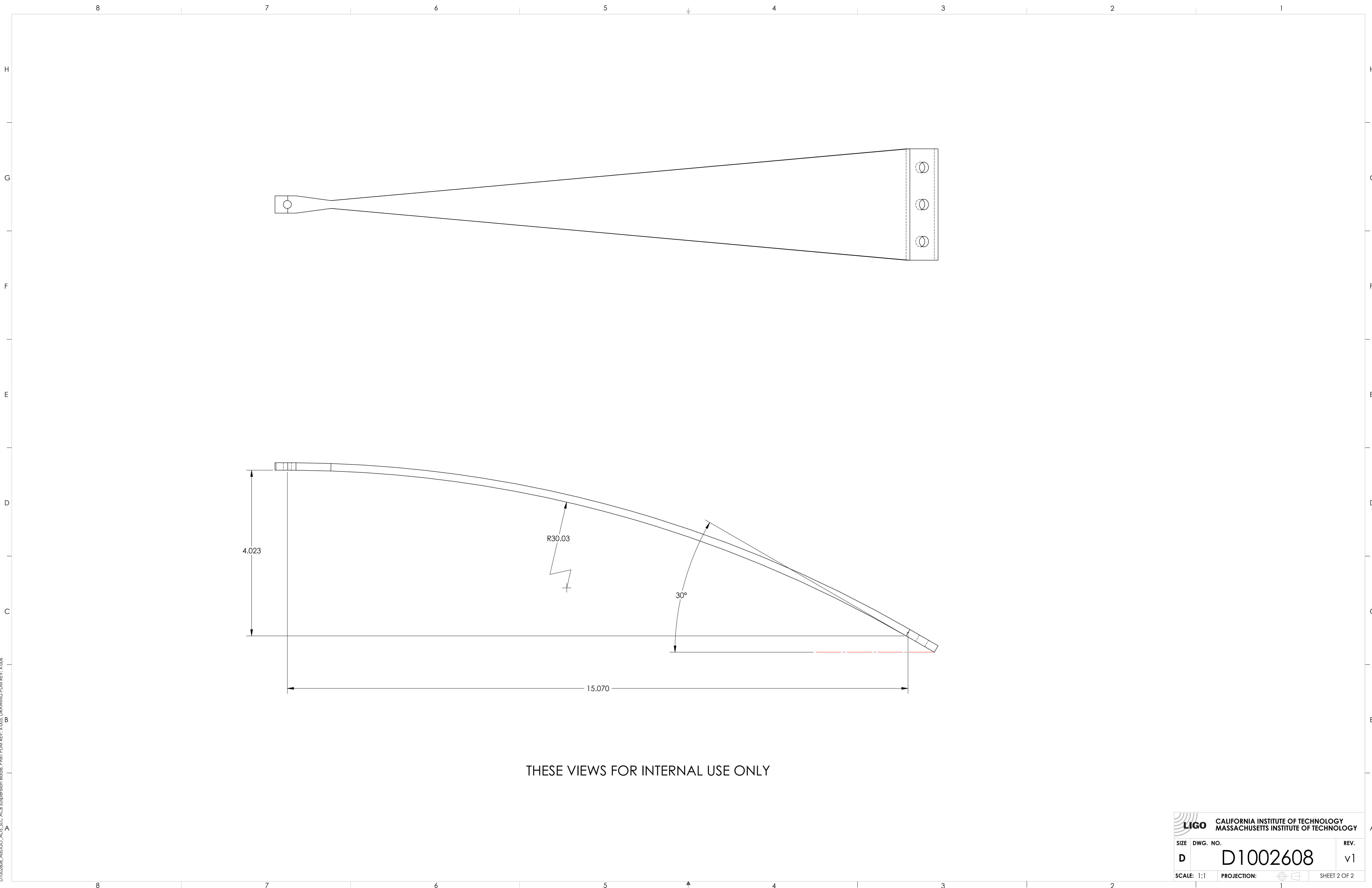
REV.	DATE	DCN #	DRAWING TREE #
v1	22 JUL 2010	E1000285	



DETAIL B  
SCALE 4 : 1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		<b>SLC ACB SUSPENSION BLADE</b>	
<b>MATERIAL</b> MARAGING STEEL C250		<b>FINISH</b> 63 μinch		<b>SYSTEM</b> ADVANCED LIGO	
		<b>SUB-SYSTEM</b> AOS		<b>DESIGNER</b> N.Nguyen 01 Jun 2010	
		<b>NEXT ASSY</b> D1001005		<b>CHECKER</b> M. SMITH 01 NOV 2010	
				<b>APPROVAL</b> D. COYNE 20 NOV 2010	
				<b>SIZE</b> D	
				<b>DWG. NO.</b> D1002608	
				<b>REV.</b> v1	
				<b>SCALE:</b> 1:1	
				<b>PROJECTION:</b>	
				SHEET 1 OF 2	

D1002608\_AutLIGO\_AOS\_SLC ACB Suspension Blade\_PRT\_PDM\_REV: X:005\_DRAWING\_PDM\_REV: X:006



THESE VIEWS FOR INTERNAL USE ONLY

 <b>CALIFORNIA INSTITUTE OF TECHNOLOGY</b> <b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY</b>		
SIZE	DWG. NO.	REV.
D	D1002608	v1
SCALE: 1:1	PROJECTION:	SHEET 2 OF 2

D:\002608\_Adu\GO\_ACS\_Suspension Blade\_PART PDM REV.X-005\_DRAWING PDM REV.X-006

NOTES CONTINUED:

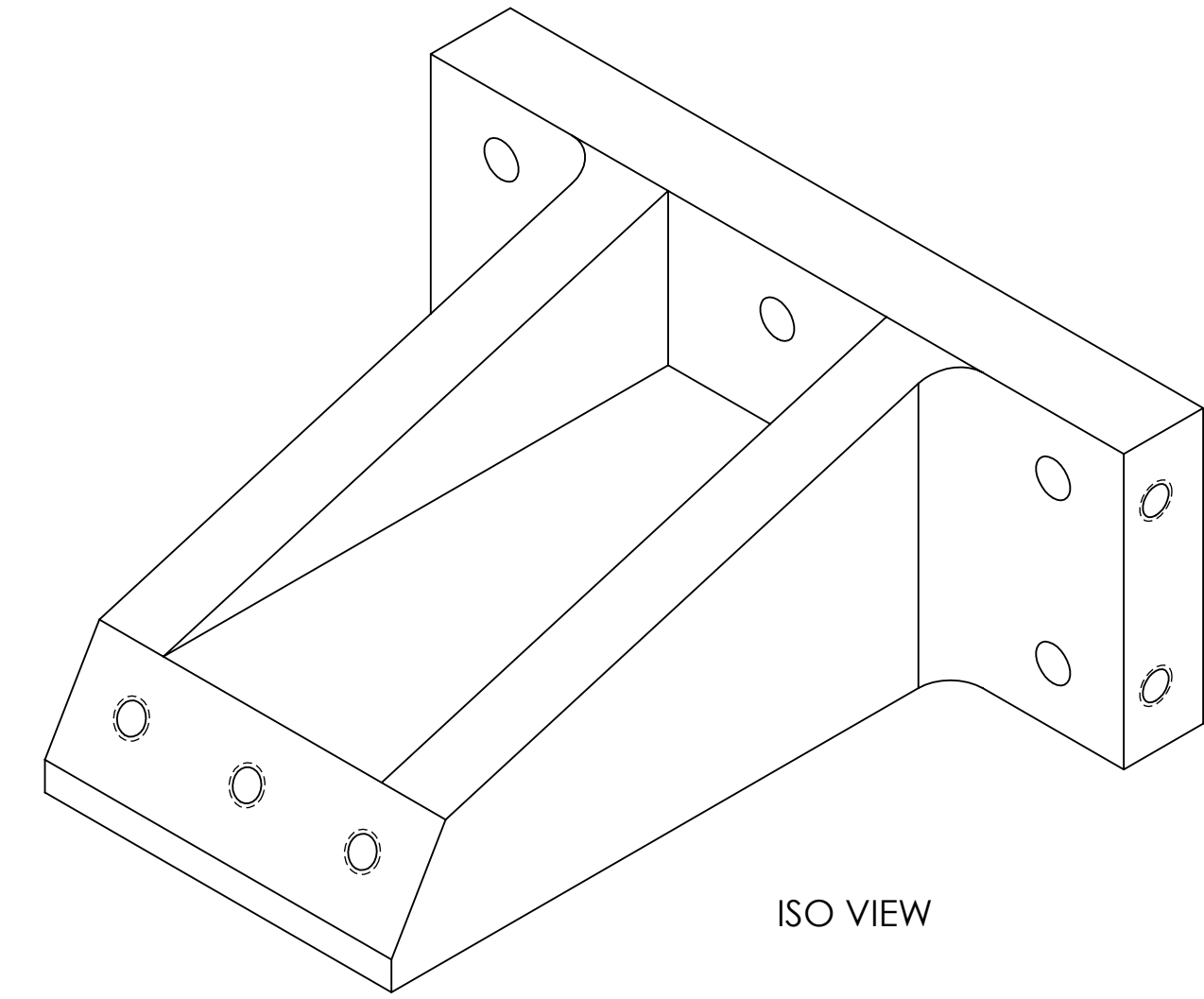
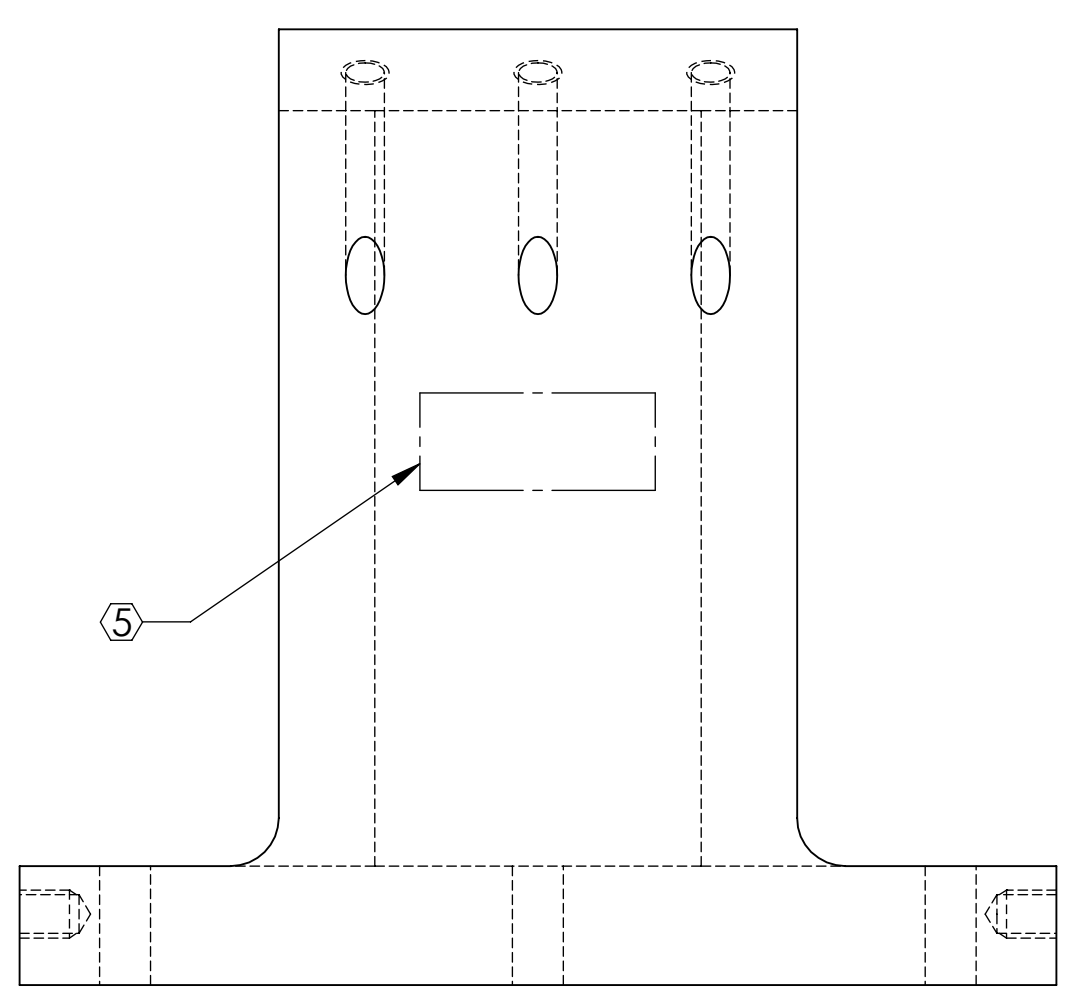
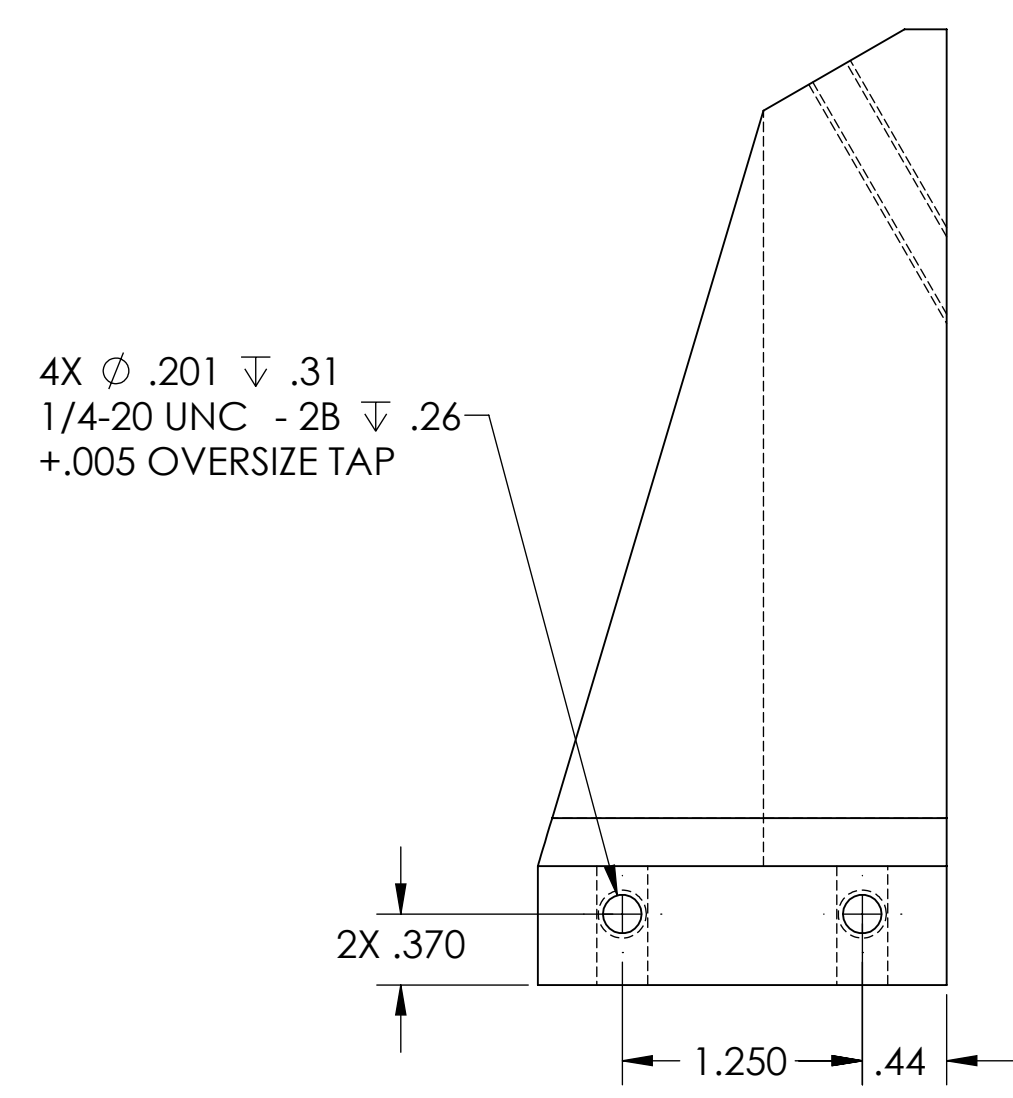
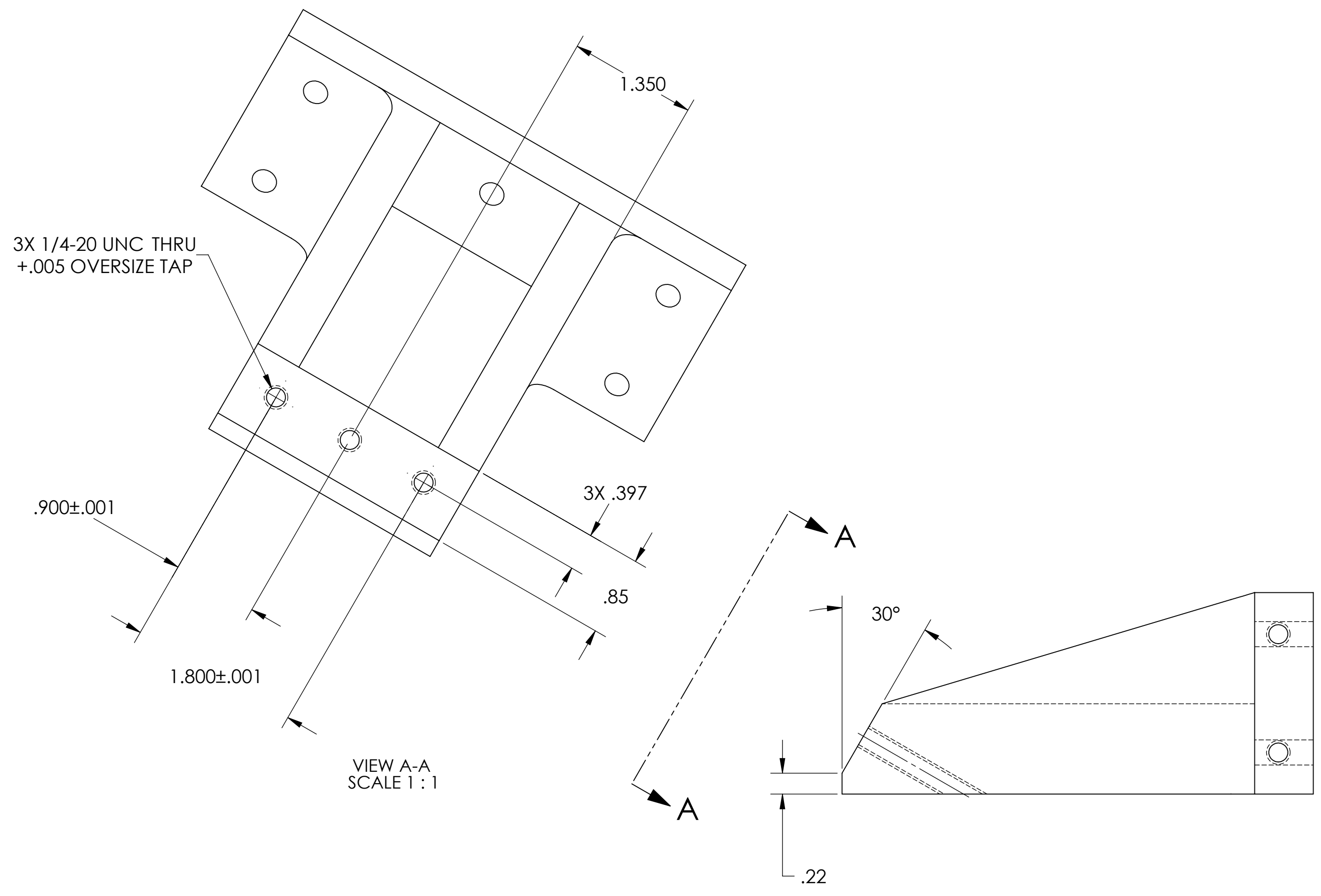
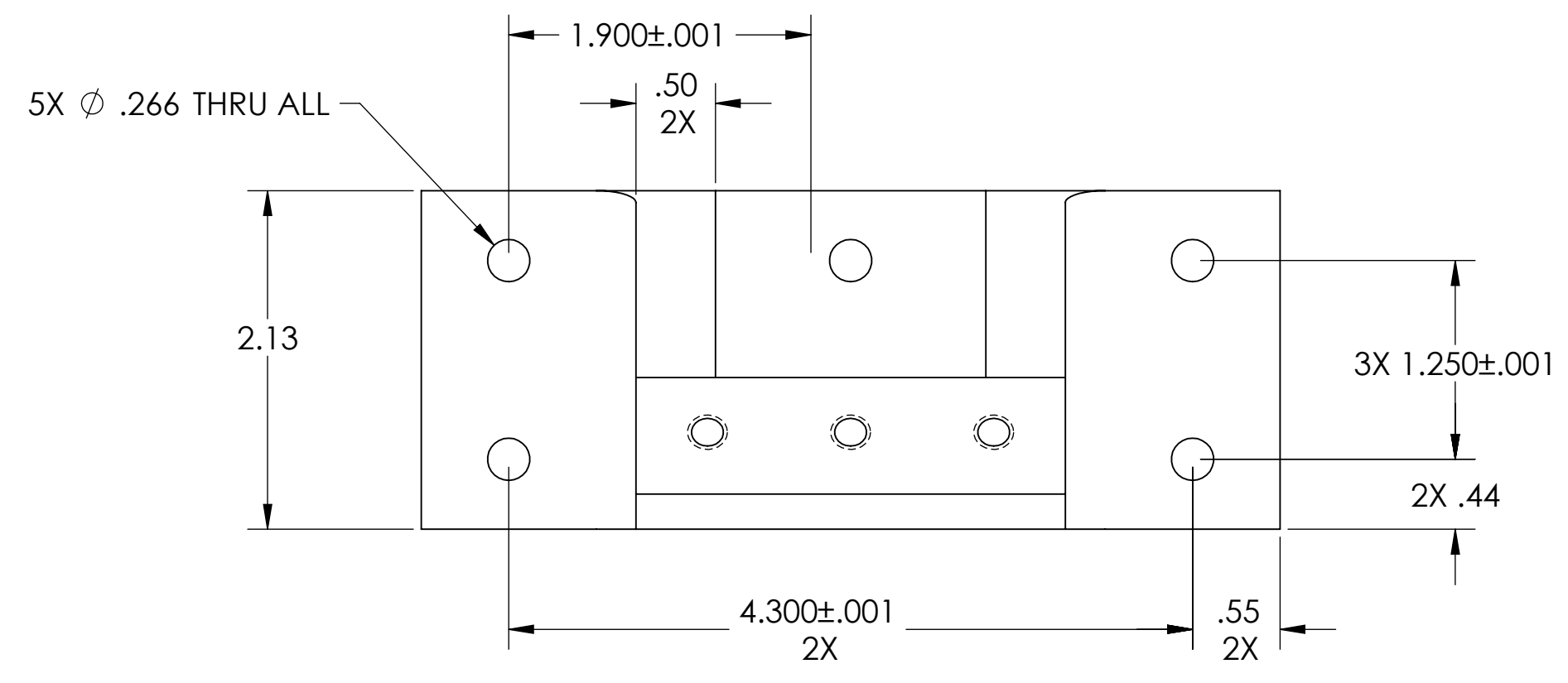
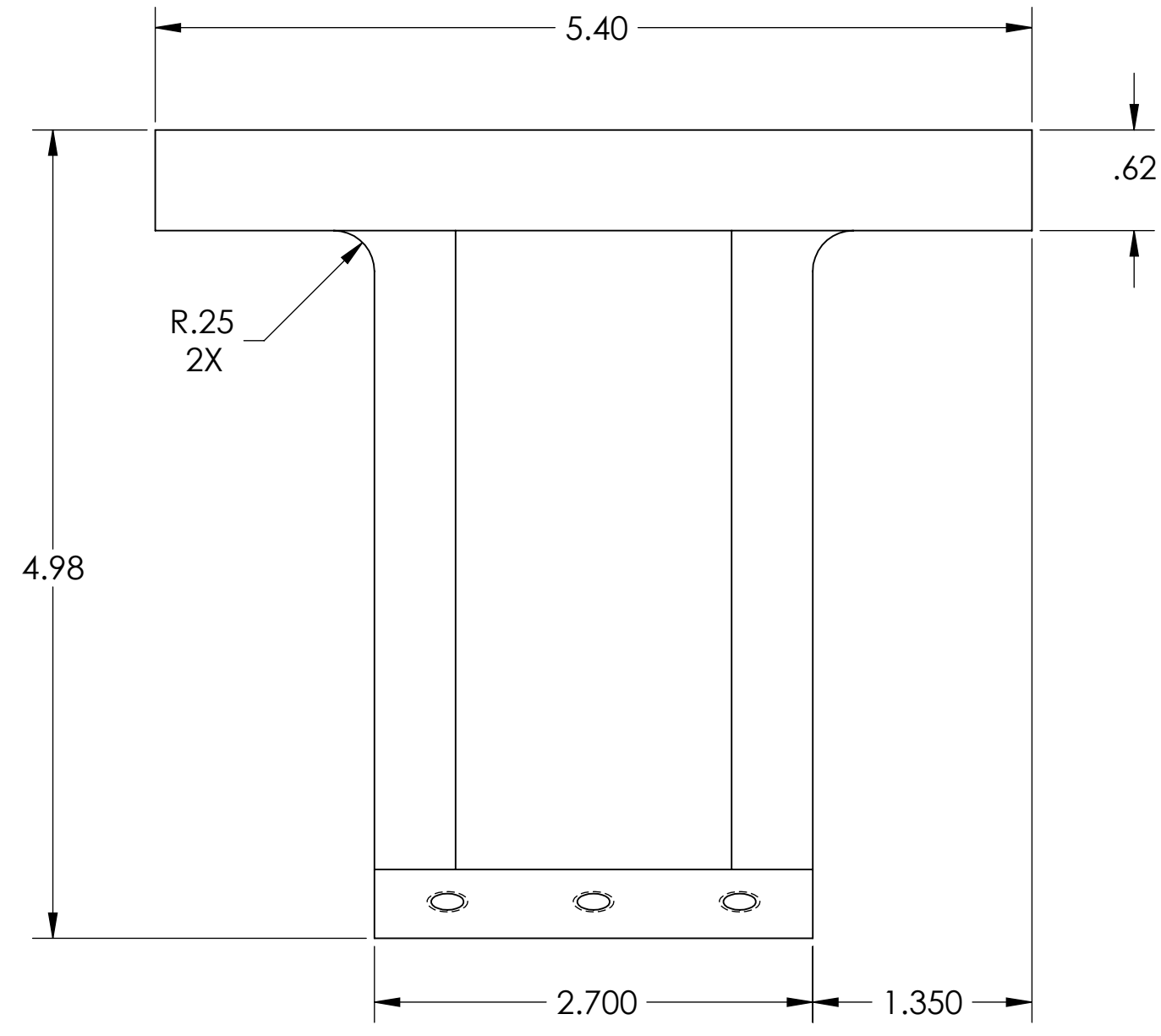
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12"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

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.

7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

8. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO, REFER TO LIGO-E0900364.

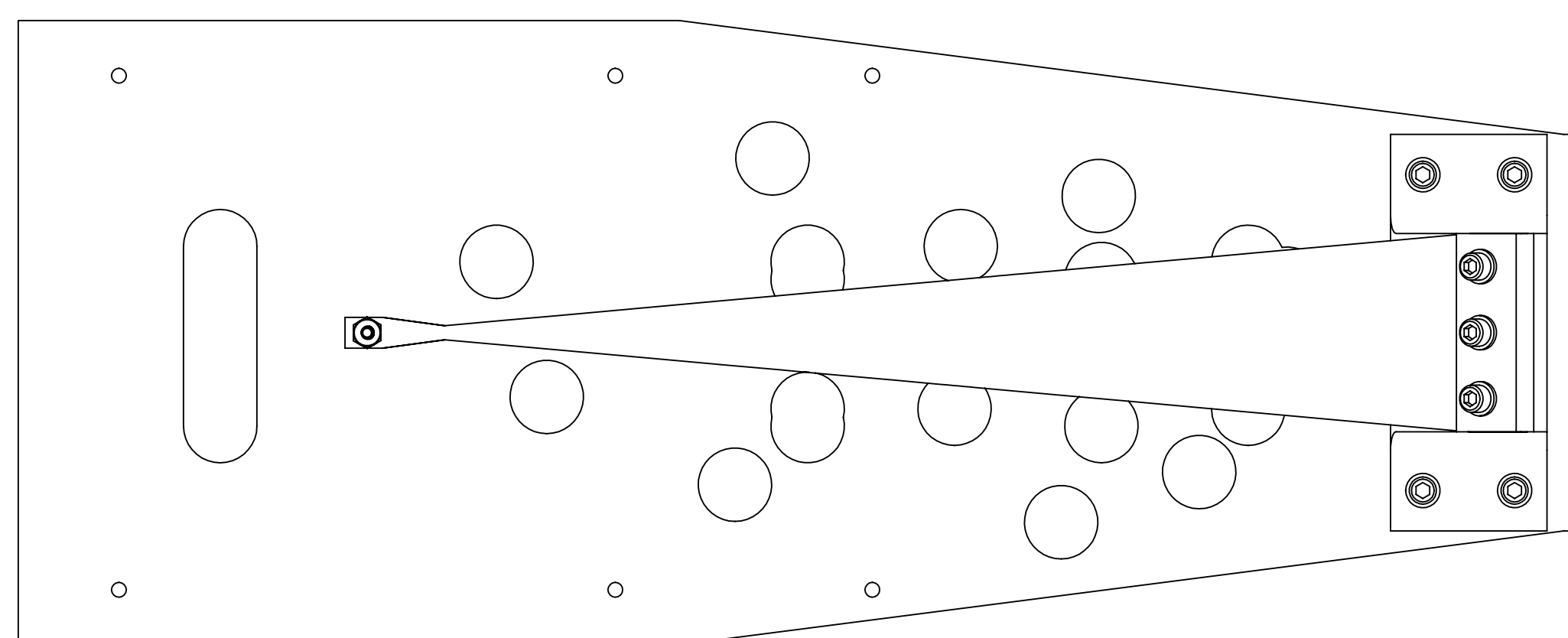
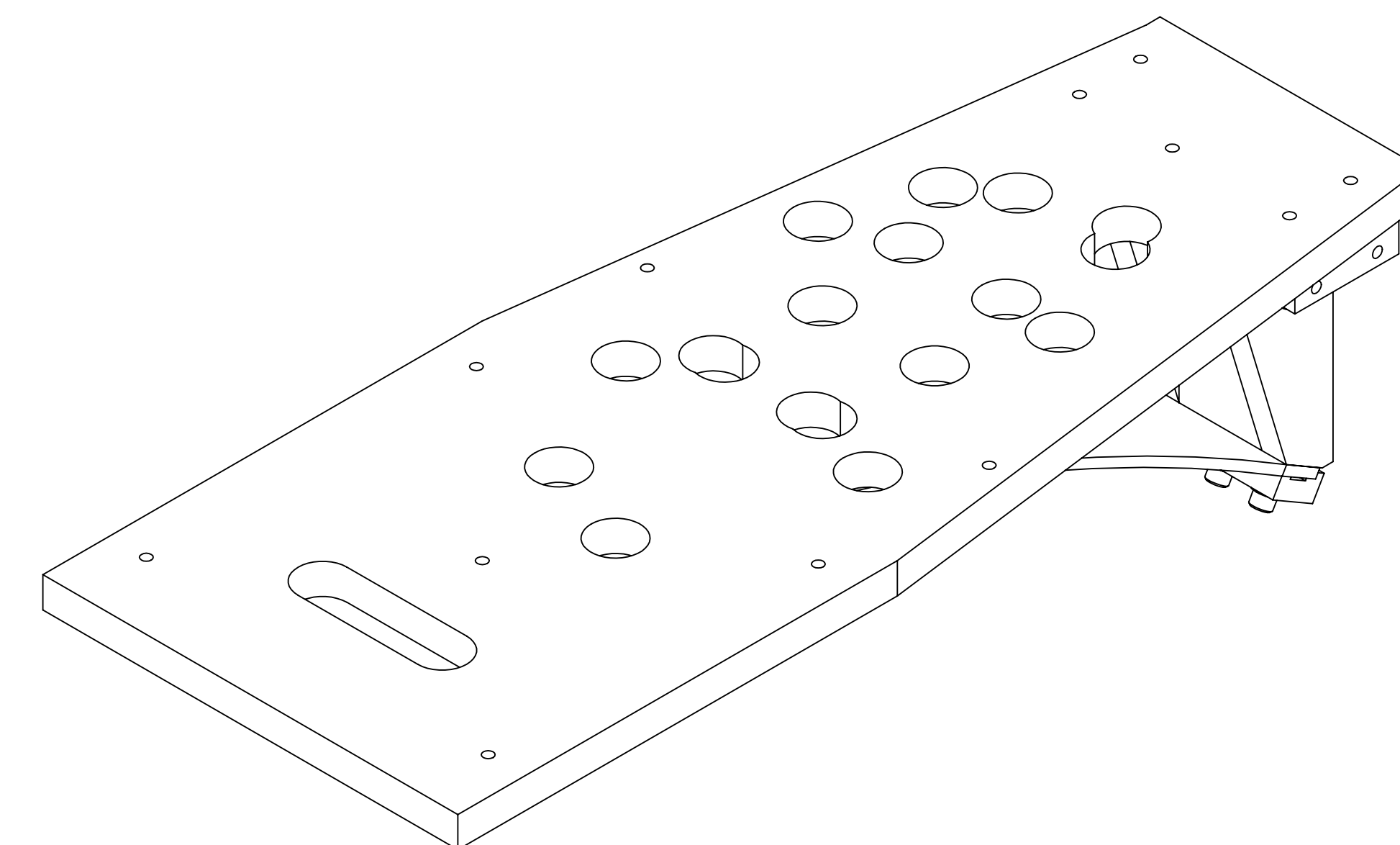
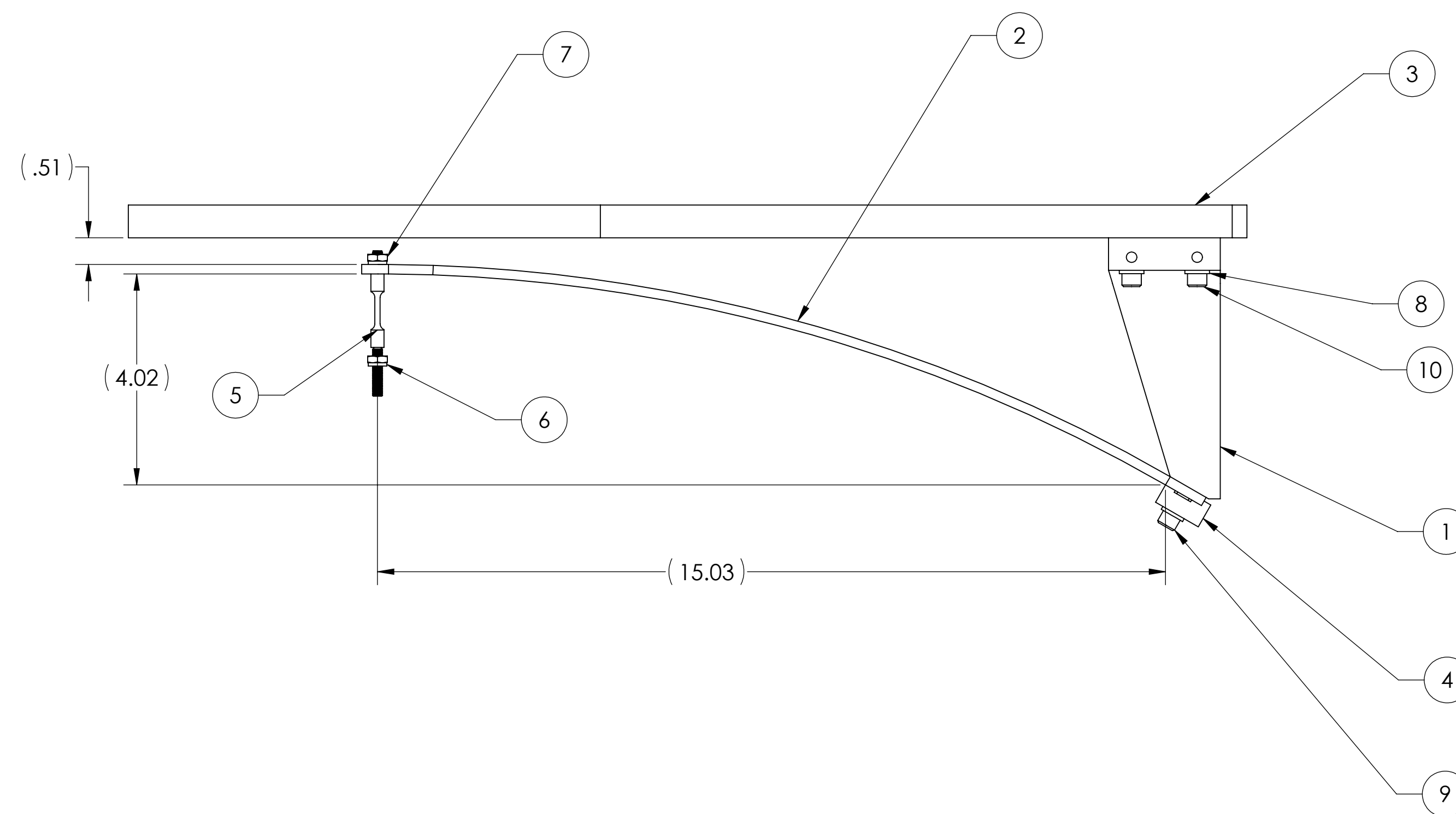
REV.	DATE	DCN #	DRAWING TREE #
v1	10 SEP 2010	D1000285	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		<b>SLC BLADE MOUNTING BRACKET</b>	
MATERIAL 6061-T6 Al		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D1001005				DESIGNER N.Nguyen		DATE 01 Jun 2010	
				DRAFTER TQ. NGUYEN		DATE 25 AUG 2010	
				CHECKER M. SMITH		DATE 01 NOV 2010	
				APPROVAL D. COYNE		DATE 20 NOV 2010	
				SIZE D		DWG. NO. <b>D1002609</b>	
				SCALE: 1:2		PROJECTION:	
				SHEET 1 OF 1		REV. v1	

D1002609\_AutLIGO\_AOS\_SLC Blade Mounting Bracket\_PART FDM REV: X.005 DRAWING FDM REV: X.005

REV.	DATE	DCN #	DRAWING TREE #
v1	02 JUN 2010	E1000285	E1000640



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
10	C-2020-A	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1.25 LONG, UC COMP	Ag-PLATED 18-8 SSSL	5	3	8
9	92196A544	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1.25, McMASTER	18-8 SSSL	3	2	5
8	90313A203	WASHER, FLAT, 1/4, McMASTER	18-8 SSSL	8	4	12
7	N-1032-A	HEX NUT, #10-32, UC COMP.	Ag 18-8 SSSL	2	1	3
6	90313A200	WASHER, FLAT, #10, McMASTER	18-8 SSSL	2	1	3
5	D1002340	SLC ACB SUSPENSION ROD	316 SSSL	1	1	2
4	D1002844	SLC ACB BLADE CLAMP	6061-T6 Al	1		1
3	D1001138	SLC ACB INTERFACE MTG PLATE	304 SSSL	1		1
2	D1002608	SLC ACB SUSPENSION BLADE	MARAGING STEEL C250	1		1
1	D1002609	SLC BLADE MOUNTING BRACKET	6061-T6 Al	1		1

PARTS LIST

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .03 .XXX ± .010 ANGULAR ± 0.5°	MATERIAL: N/A FINISH: N/A μinch

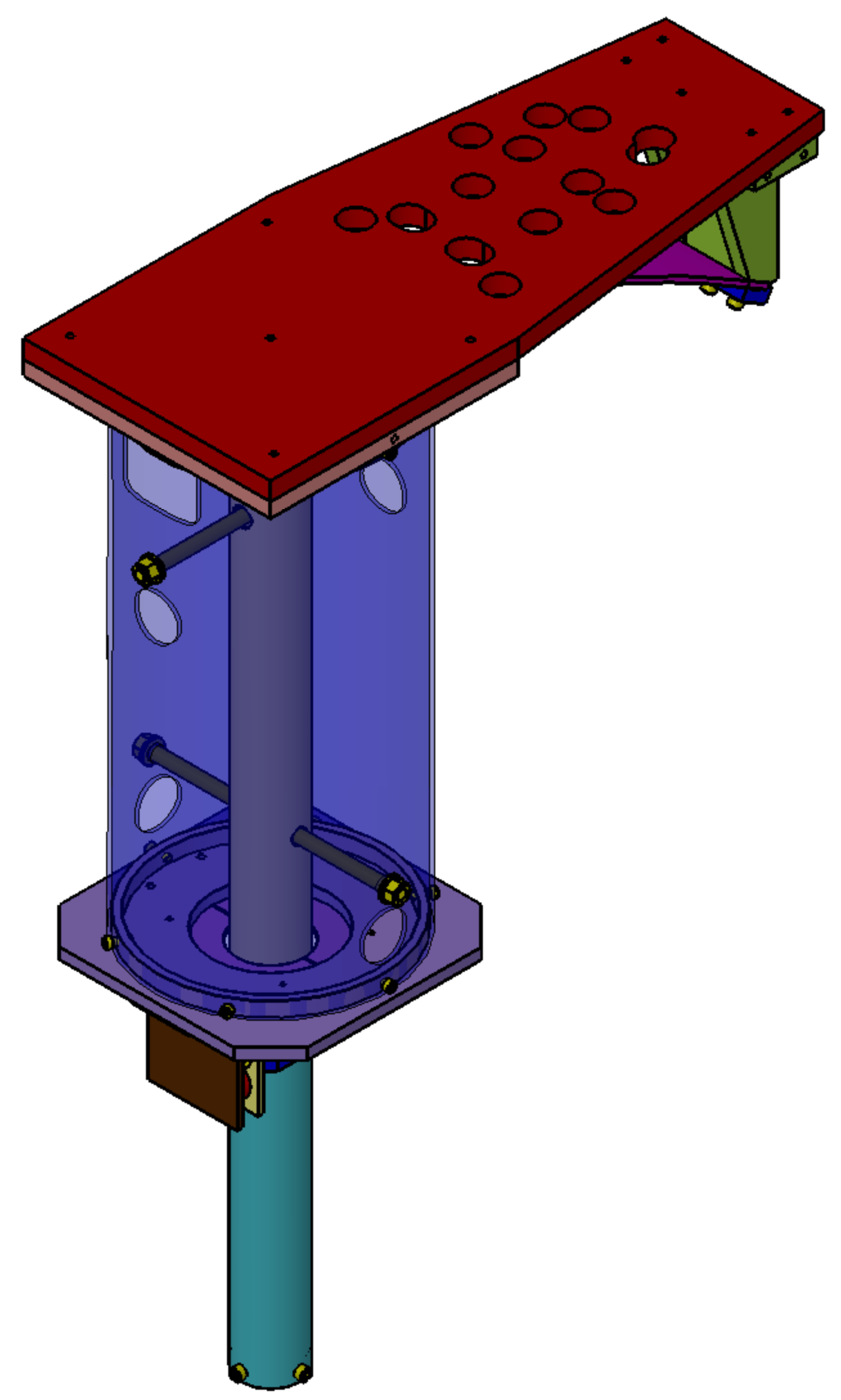
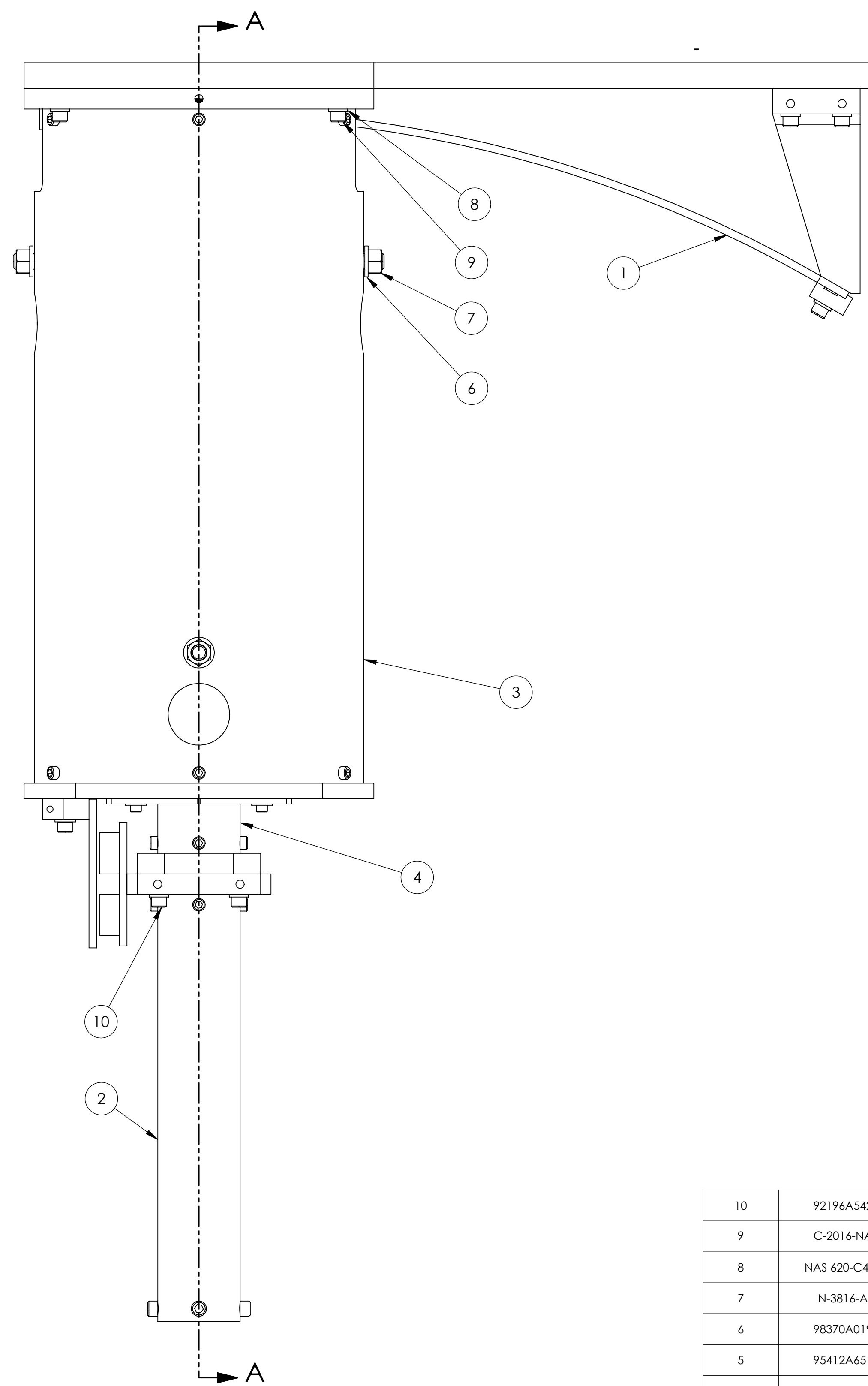
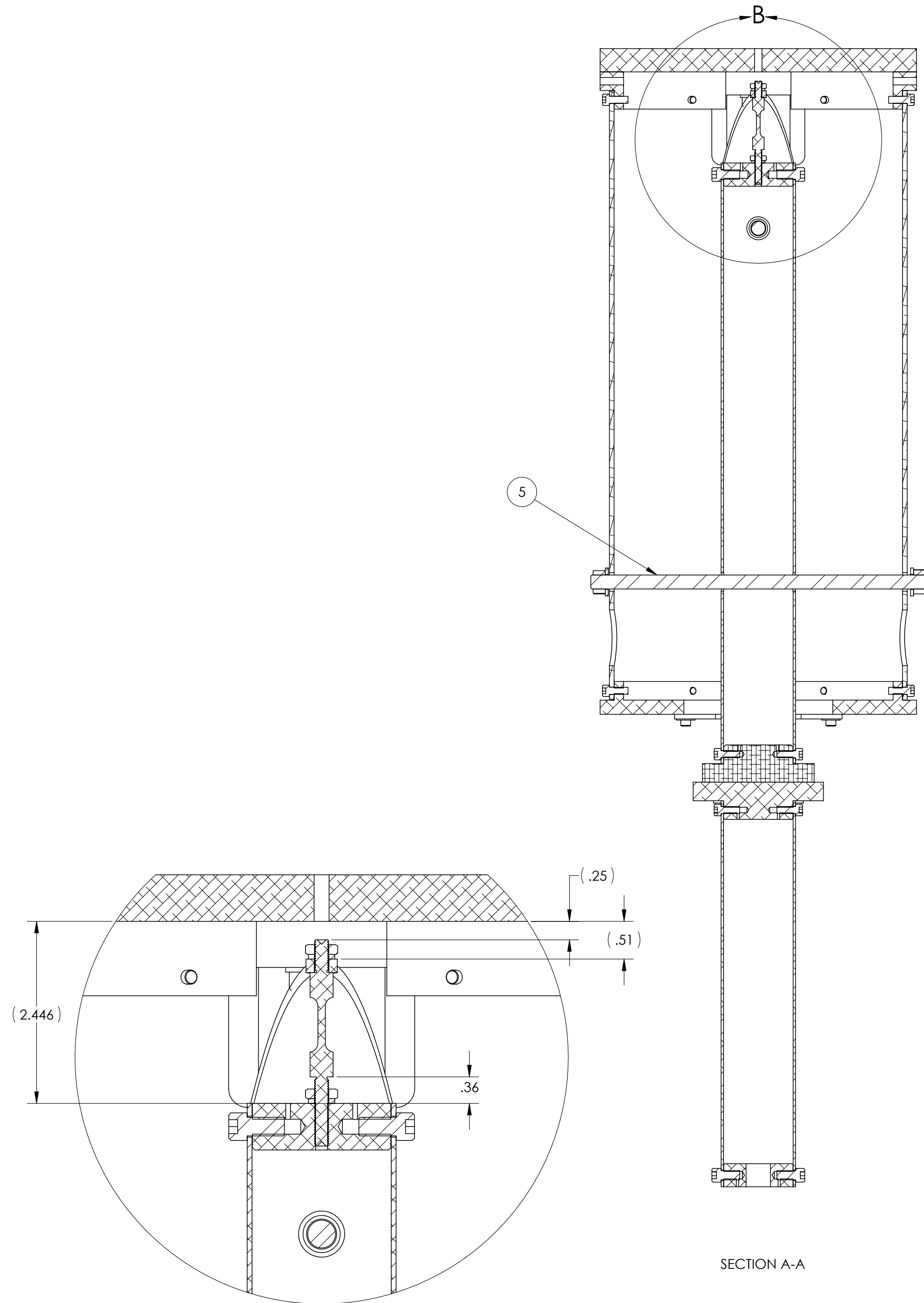
CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
 SYSTEM: ADVANCED LIGO  
 SUB-SYSTEM: AOS  
 NEXT ASSY: D0901376

PART NAME: ARM CAVITY BAFFLE BLADE ASSY  
 DESIGNER: N.Nguyen, 20 Aug 2010  
 DRAFTER: TQ. NGUYEN, 28 MAY 2010  
 CHECKER: M. SMITH, 10 NOV 2010  
 APPROVAL: D. COYNE, 20 NOV 2010  
 SIZE: D, DWG. NO.: D1001005, REV.: v1  
 SCALE: 1:1, PROJECTION: 1st Angle, SHEET 1 OF 1

D1001005\_A01.LGO\_A01.SLC\_ARM\_Cavity\_Baffle\_Blade Assy, PART PDM REV: X.025, DRAWING PDM REV: X.010

NOTES CONTINUED:

REV.	DATE	DCN #	DRAWING TREE #
v1	25 AUG 2010	E1000285	E1000663
-	-	-	-
-	-	-	-



ISO VIEW

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
10	92196A542	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1L, McMASTER	18-8 SSSL	4	2	6
9	C-2016-NA	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1L, UC COMP	Ag-PLATED 18-8 SSSL	4	2	6
8	NAS 620-C416	WASHER, FLAT, 1/4 (NAS 620-C416 OR EQUIVALENT)	300 SSSL	8	4	12
7	N-3816-A	HEX NUT, 3/8-16, SILVER PLATED, UC COMP	18-8 SSSL	4	2	6
6	98370A019	WASHER #.375 X .75 OD, McMASTER	18-8 SST	4	2	6
5	95412A651	THREADED STUD .375-16 X 9, McMASTER	18-8 SSSL	2		2
4	D1002582	SLC BAFFLE TUBE UP ASSEMBLY	N/A	1		1
3	D1002564	SLC EDDY CURRENT DAMPING 8 DIA TUBE ASSY	N/A	1		1
2	D1001007	ACB TUBE LO ASSY	N/A	1		1
1	D1001005	ARM CAVITY BAFFLE BLADE ASSY	N/A	1		1

PARTS LIST

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± .02 .XXX ± .010	
ANGULAR ± 0.5°	
MATERIAL	N/A
FINISH	N/A μinch

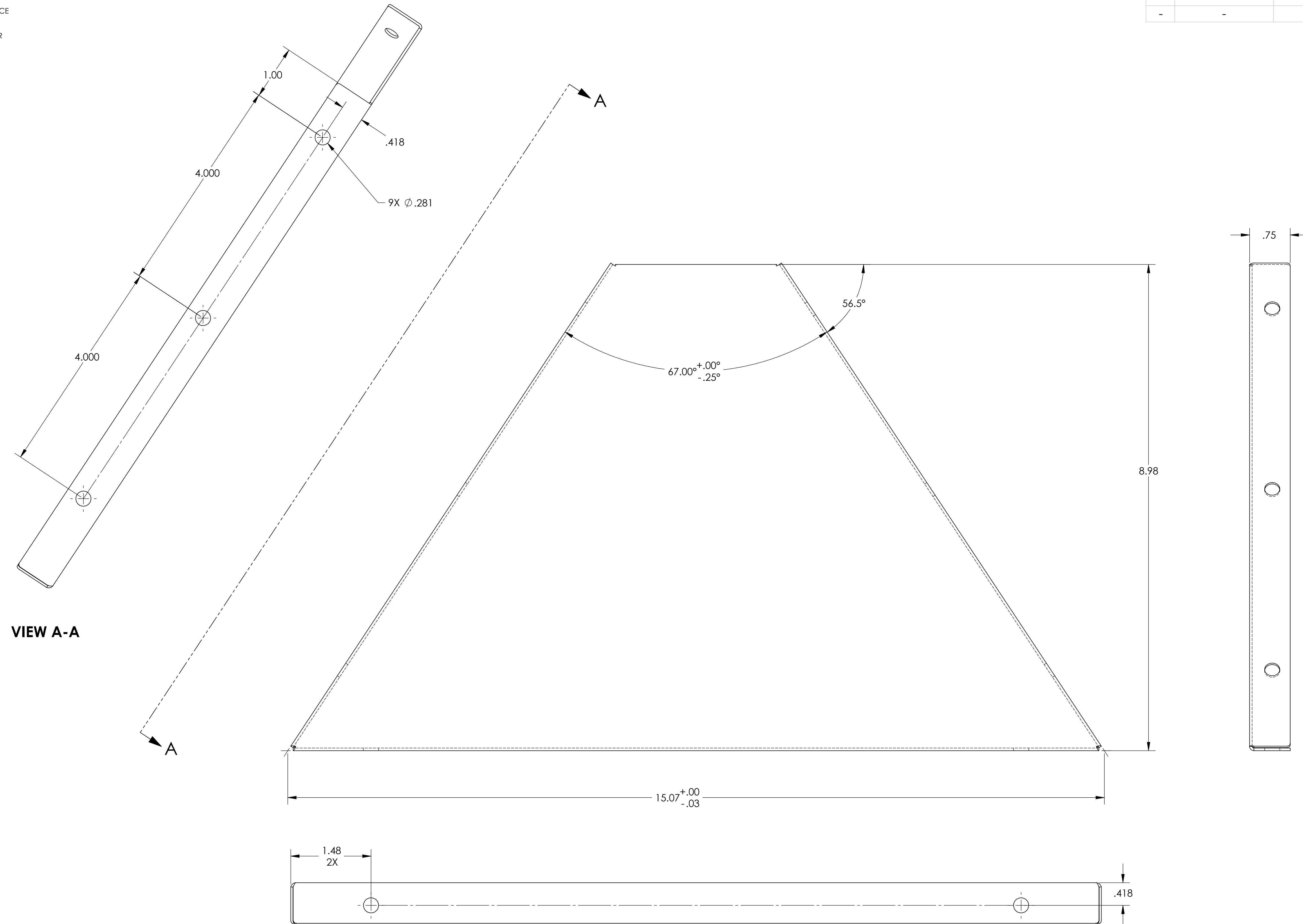
CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
SYSTEM <b>ADVANCED LIGO</b>		SUB-SYSTEM <b>AOS</b>	
NEXT ASSY D0901376		<b>ARM CAVITY BAFFLE ASSY</b>	
DESIGNER	N.Nguyen	DATE	02 AUG 2010
DRAFTER	N.Nguyen	DATE	25 AUG 2010
CHECKER	M.Smith	DATE	10 NOV 2010
APPROVAL	D. Coyne	DATE	20 NOV 2010
SIZE	D	DWG. NO.	D1001011
REV.	v1	SCALE:	1:2
PROJECTION:			
SHEET 1 OF 1			

D:\000101\_Ladigo\_AOS\_SLC\_ARM\_Cavity\_Baffle Assy\_PART PDM REV: X.048\_DRAWING PDM REV: X.007



**NOTES CONTINUED:**  
 5 MATERIAL: 18 GA ENAMELING STEEL A424 TYPE I OR III.  
 6. PART TO BE SMOOTH AND FREE OF BURRS.  
 7 FINISH: PART WILL BE PORCELAIN COATED IN ACCORDANCE WITH LIGO SPECIFICATION E1000083  
 8 ALL HOLE AREAS SHALL BE MASKED WITHIN .63 DIA PRIOR PORCELAIN COATED, BOTH SIDES.

REV.	DATE	DCN #	DRAWING TREE #
v1	16 JUN 2010	E1000285	-
-	-	-	-
-	-	-	-



DIMENSIONS ARE IN INCHES		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
TOLERANCES: .XX ± .02 .XXX ± .010		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
ANGULAR ± 1.0°	MATERIAL 18 GA Enamel Steel A424 Type I	FINISH ☒	

**LIGO** CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

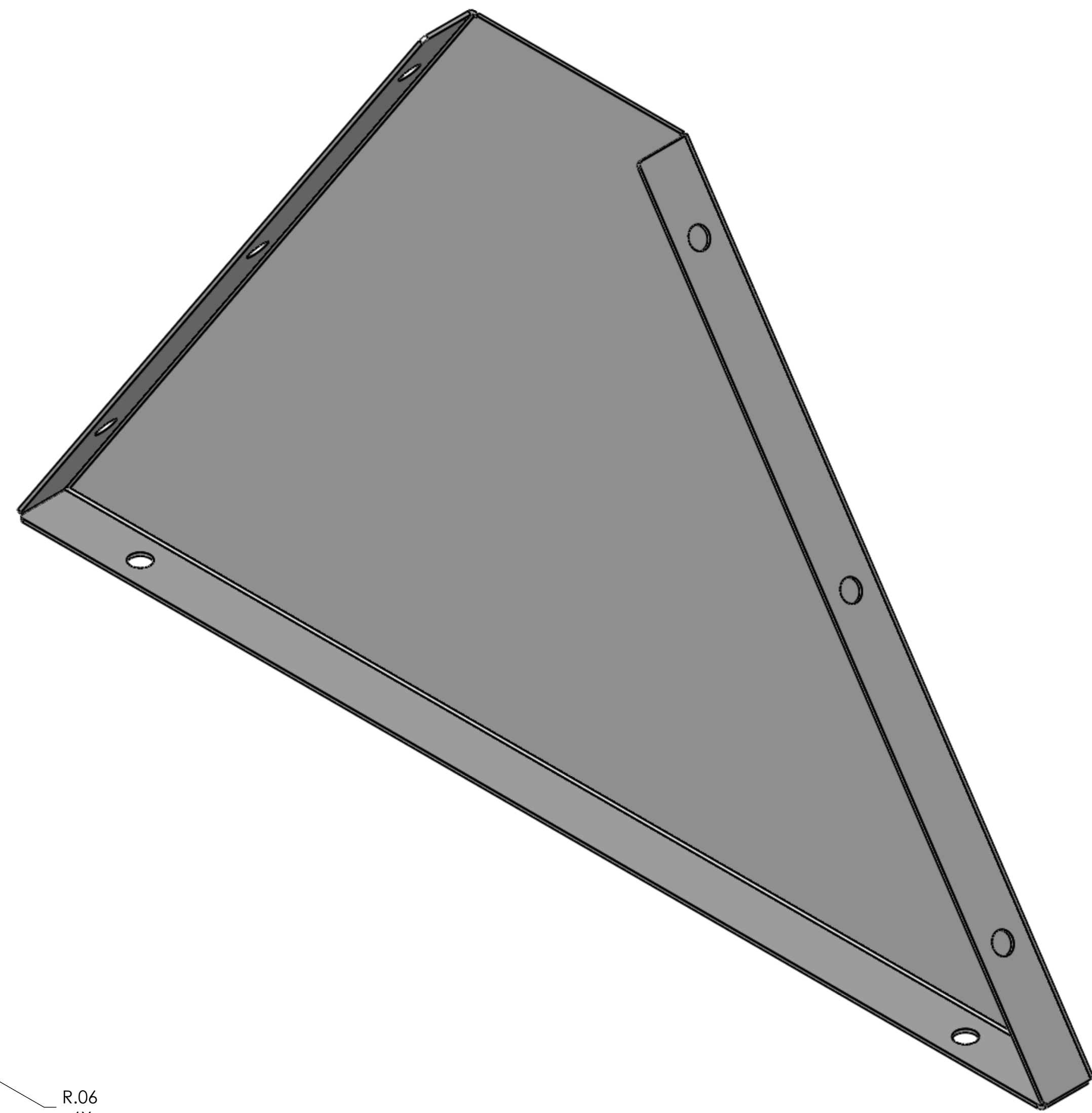
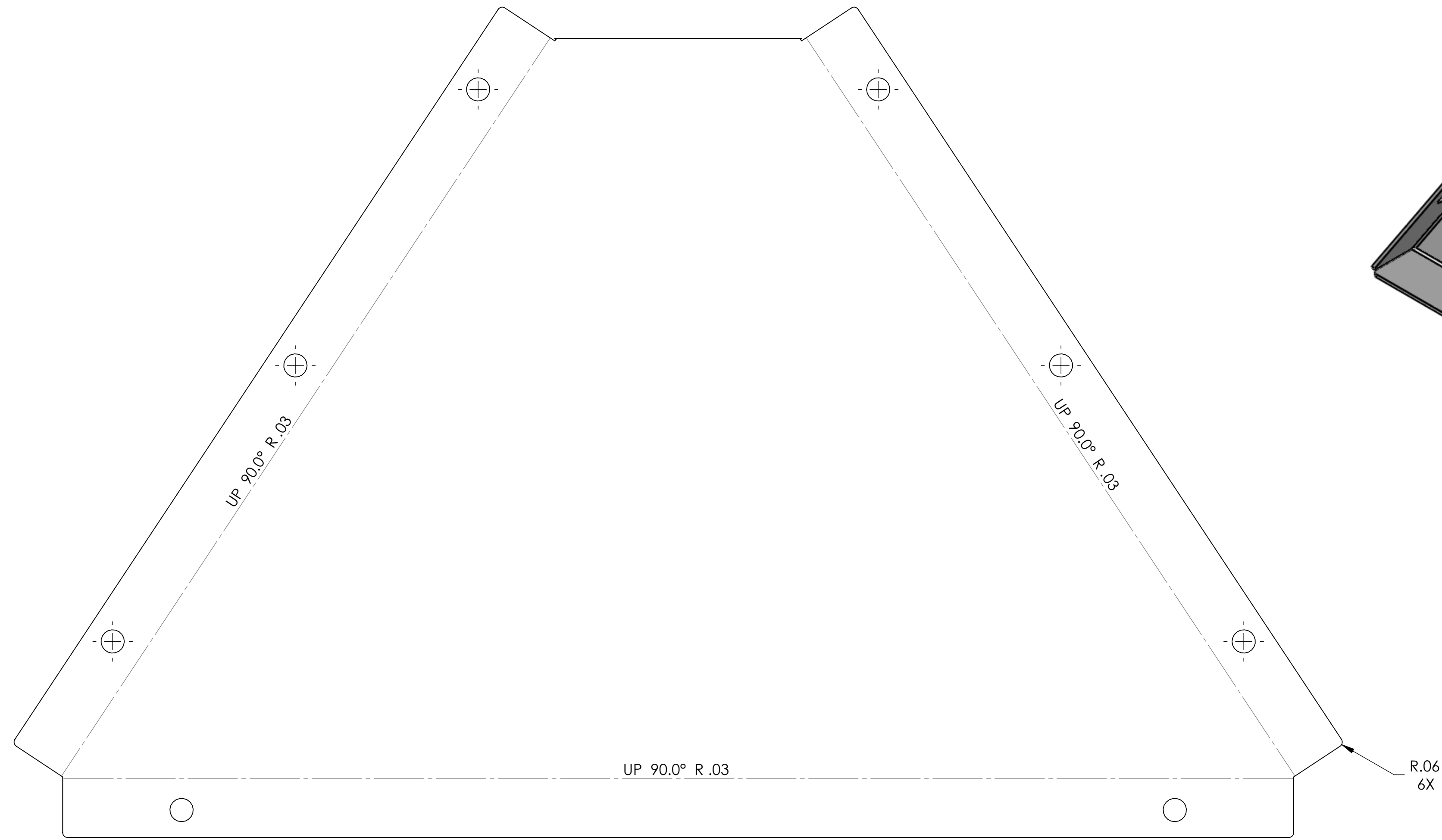
SYSTEM: ADVANCED LIGO      SUB-SYSTEM: AOS

NEXT ASSY: D1000977

PART NAME <b>ARM BAFFLE MIDDLE REINFORCING PLATE</b>			
DESIGNER	N.Nguyen	01 Jun 2010	SIZE DWG. NO.
DRAFTER	TQ. NGUYEN	15 JUN 2010	<b>D</b> <b>D1001365</b>
CHECKER	M. SMITH	02 AUG 2010	
APPROVAL	D. COYNE	10 AUG 2010	SCALE: 1:1      PROJECTION:
			REV. v1      SHEET 1 OF 2

D1001365\_A01 LIGO\_AOS\_ARM\_Cavity Baffle Middle Reinforcing Plate PART PDM REV: X-016 DRAWING PDM REV: X-007

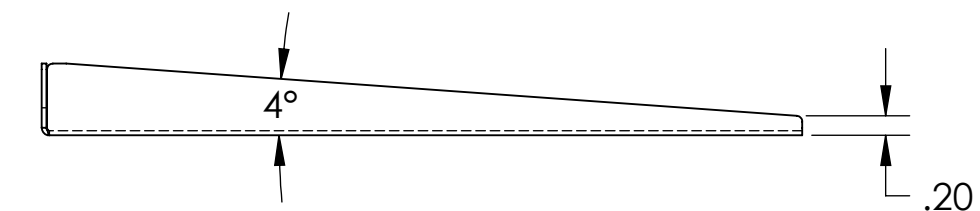
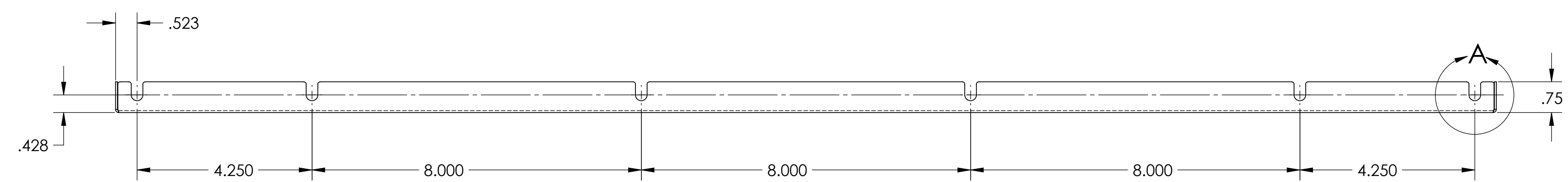
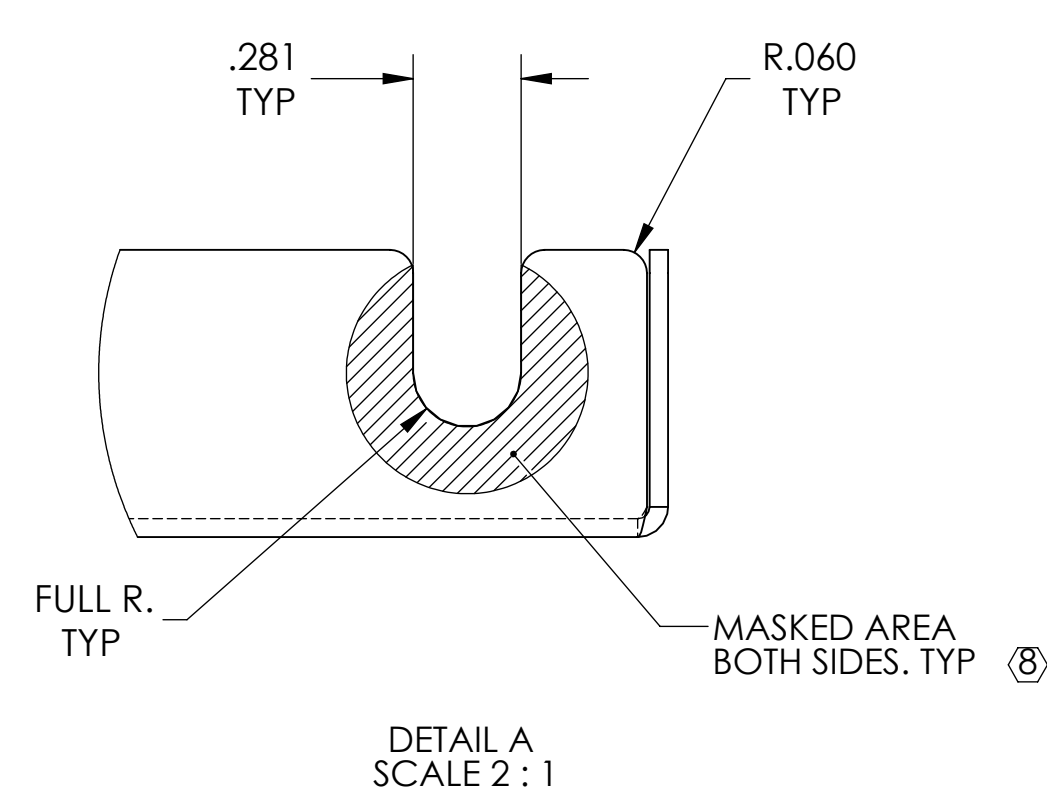
D:\001\_365\_Adu\GO\_ACS\_ARM\_Cavity\_Baffle\_Middle\_Reinforcing\_Plate\_PART.PDM REV: X-016 DRAWING PDM REV: X-007



<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE	DWG. NO.	REV.
D	D1001365	v1
SCALE: 1:1	PROJECTION:	SHEET 2 OF 2

- NOTES CONTINUED:
- ⑤ FINISH: PART WILL BE PORCELAIN COATED IN ACCORDANCE WITH LIGO SPECIFICATION E1000083
  - ⑥ MAT'L: 18 GA ENAMELING STEEL -A424 TYPE I OR III
  - 7. ALL EDGES TO BE SMOOTH AND FREE OF BURRS.
  - ⑧ ALL HOLE AREAS SHALL BE MASKED WITHIN .63 DIA PRIOR PORCELAIN COATED, BOTH SIDES.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 AUG 2010	E1000285	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME					
DIMENSIONS ARE IN INCHES <b>REQUESTING INFORMATION ONLY</b> TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM <b>ADVANCED LIGO</b>		SUB-SYSTEM <b>AOS</b>		<b>ARM CAVITY BAFFLE UP LEAF</b>	
						MATERIAL Enamel A424 Type I ⑥		FINISH ⑤		NEXT ASSY D1000977	
				DRAFTER Tq. Nguyen 27 May 2010		CHECKER M. Smith 10 NOV 2010		APPROVAL D. Coyne 20 NOV 2010		REV. v1	
				SCALE: 1:4		PROJECTION:		SHEET 1 OF 2			

D1001026\_A03\_31C\_ARM\_Cavity\_Baffle\_Upper\_Leaf\_PRT\_PDM\_REV\_X011\_DRAWING\_PDM\_REV\_X005

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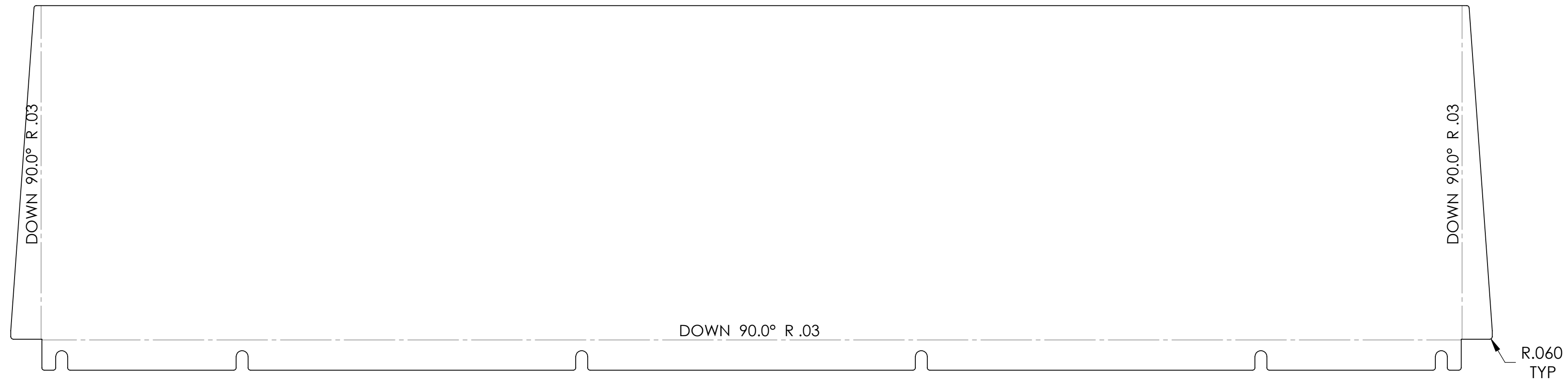
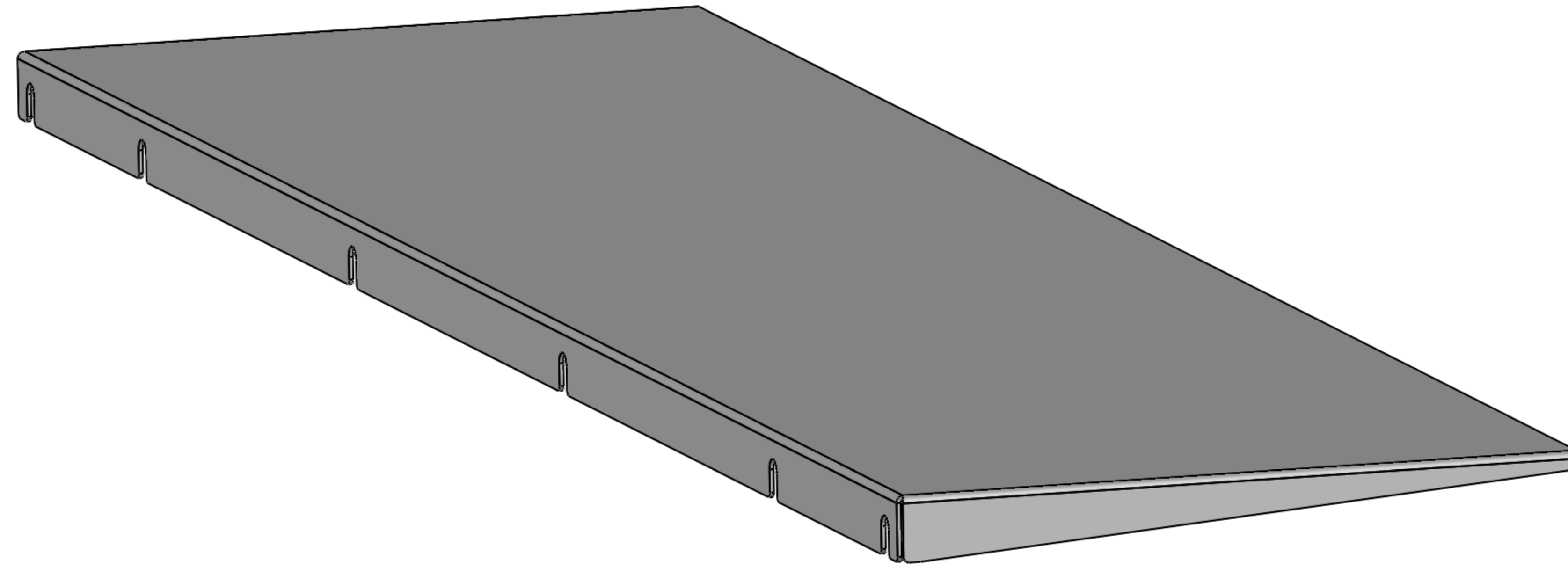
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		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE	DWG. NO.	REV.	
D	D1001026	v1	
SCALE: 1:1	PROJECTION:		SHEET 2 OF 2

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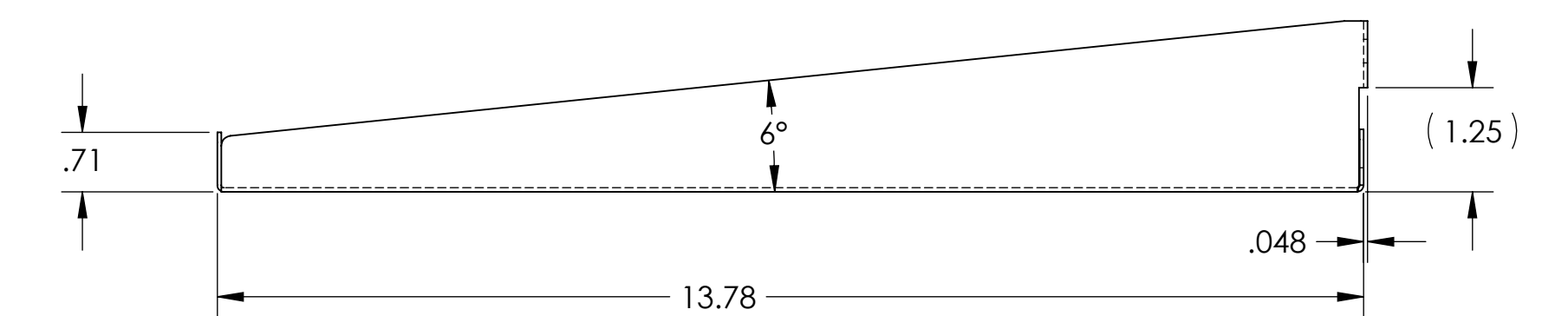
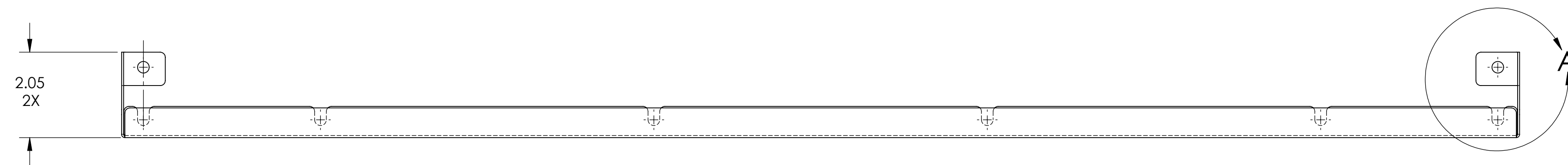
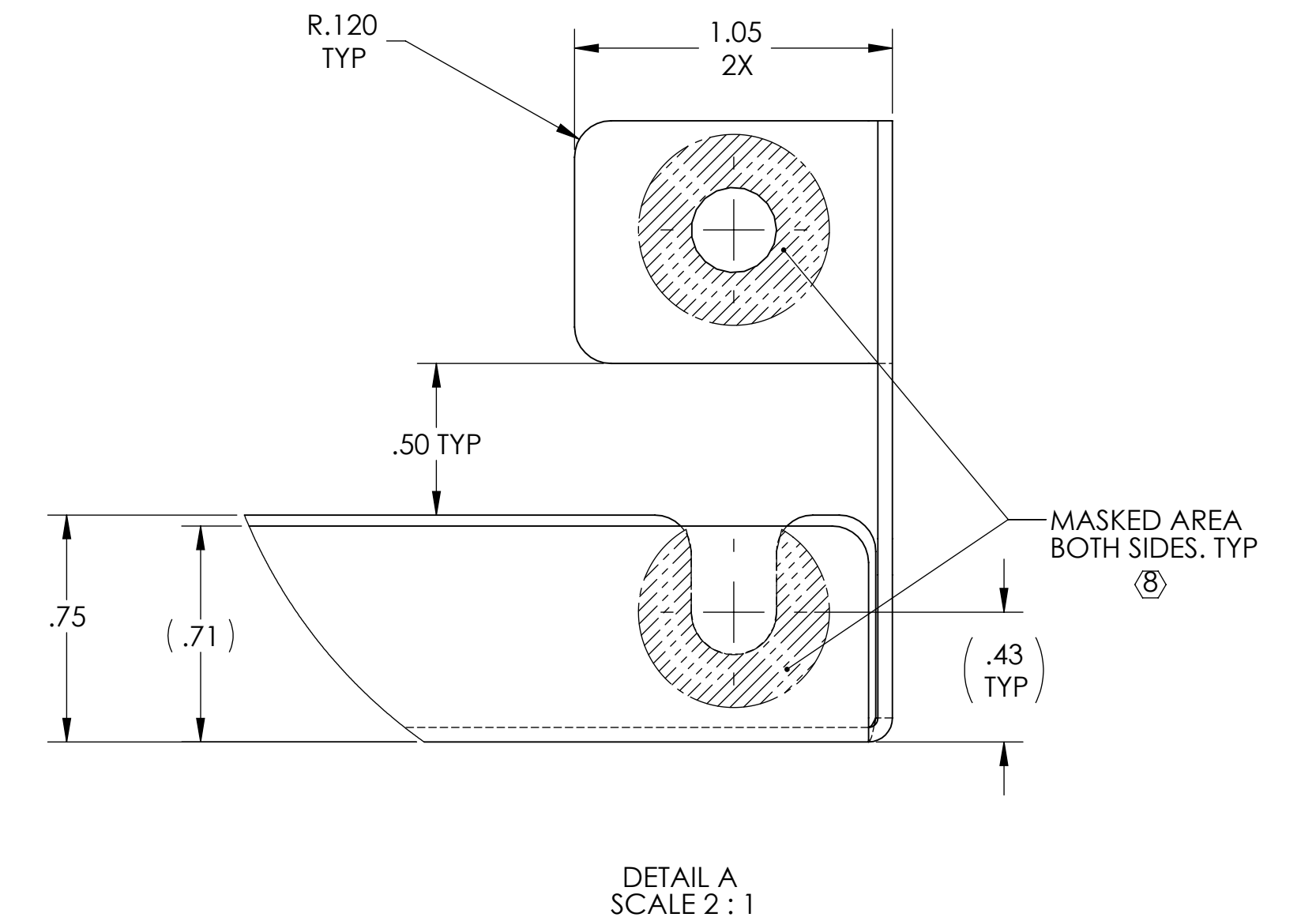
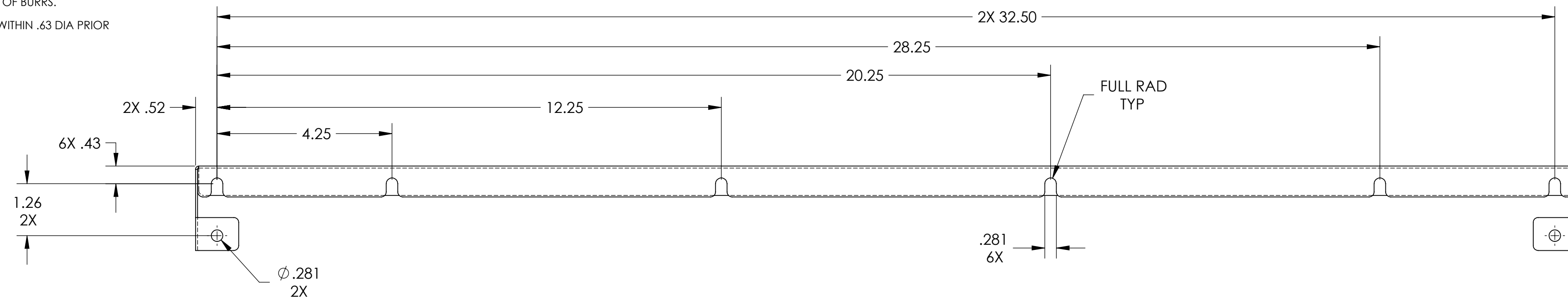
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D:\001026\_Adu\GO\_AQS\_SLC\_ARM\_Covily\_Bottle\_Upper\_Lecr\_PART\_PDM\_REV\_X011\_DRAWING\_PDM\_REV\_X005

- NOTES CONTINUED:**
- ⑤ FINISH: PART WILL BE PORCELAIN COATED IN ACCORDANCE WITH LIGO SPECIFICATION E1000083
  - ⑥ MAT'L: 18 GA ENAMELING STEEL -A424 TYPE I OR III
  - 7. ALL EDGES TO BE SMOOTH AND FREE OF BURRS.
  - ⑧ ALL HOLE AREAS SHALL BE MASKED WITHIN .63 DIA PRIOR PORCELAIN COATED, BOTH SIDES.

REV.	DATE	DCN #	DRAWING TREE #
v1	31 AUG 2010	E1000285	

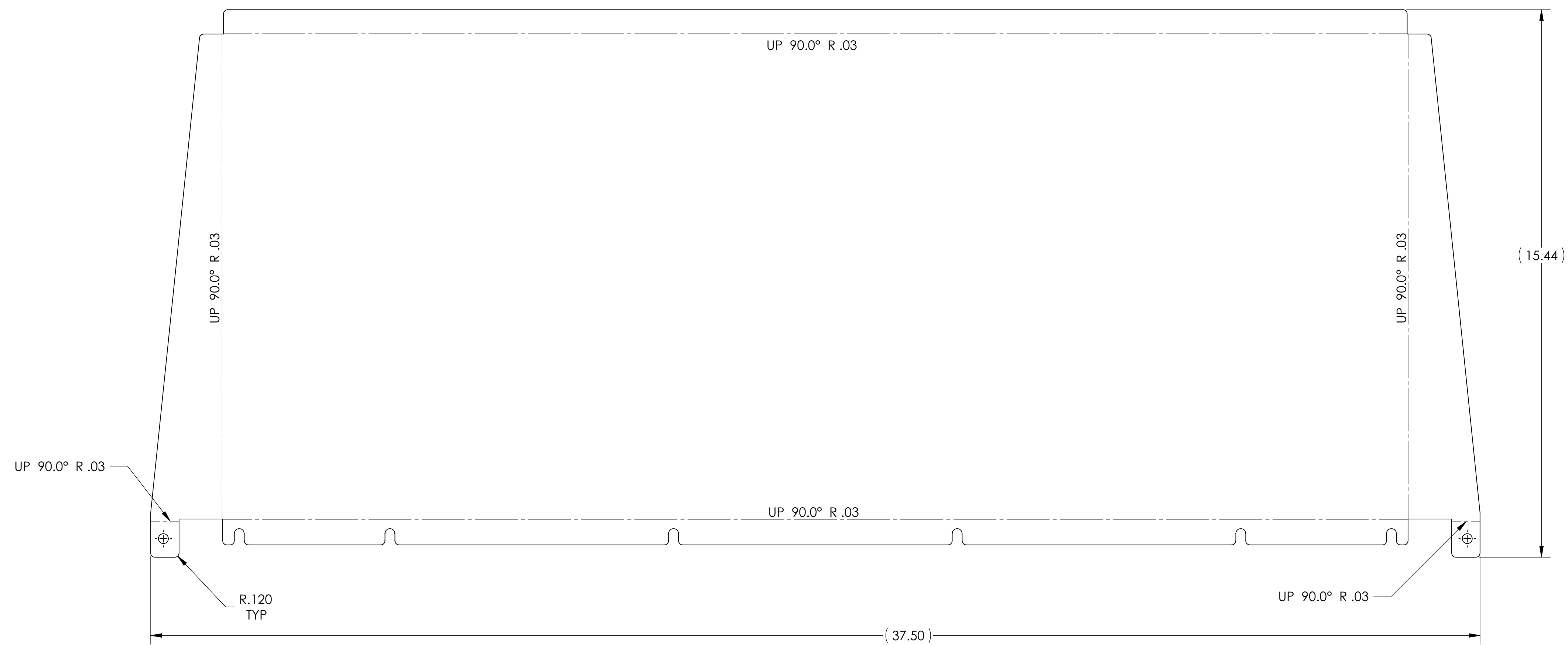
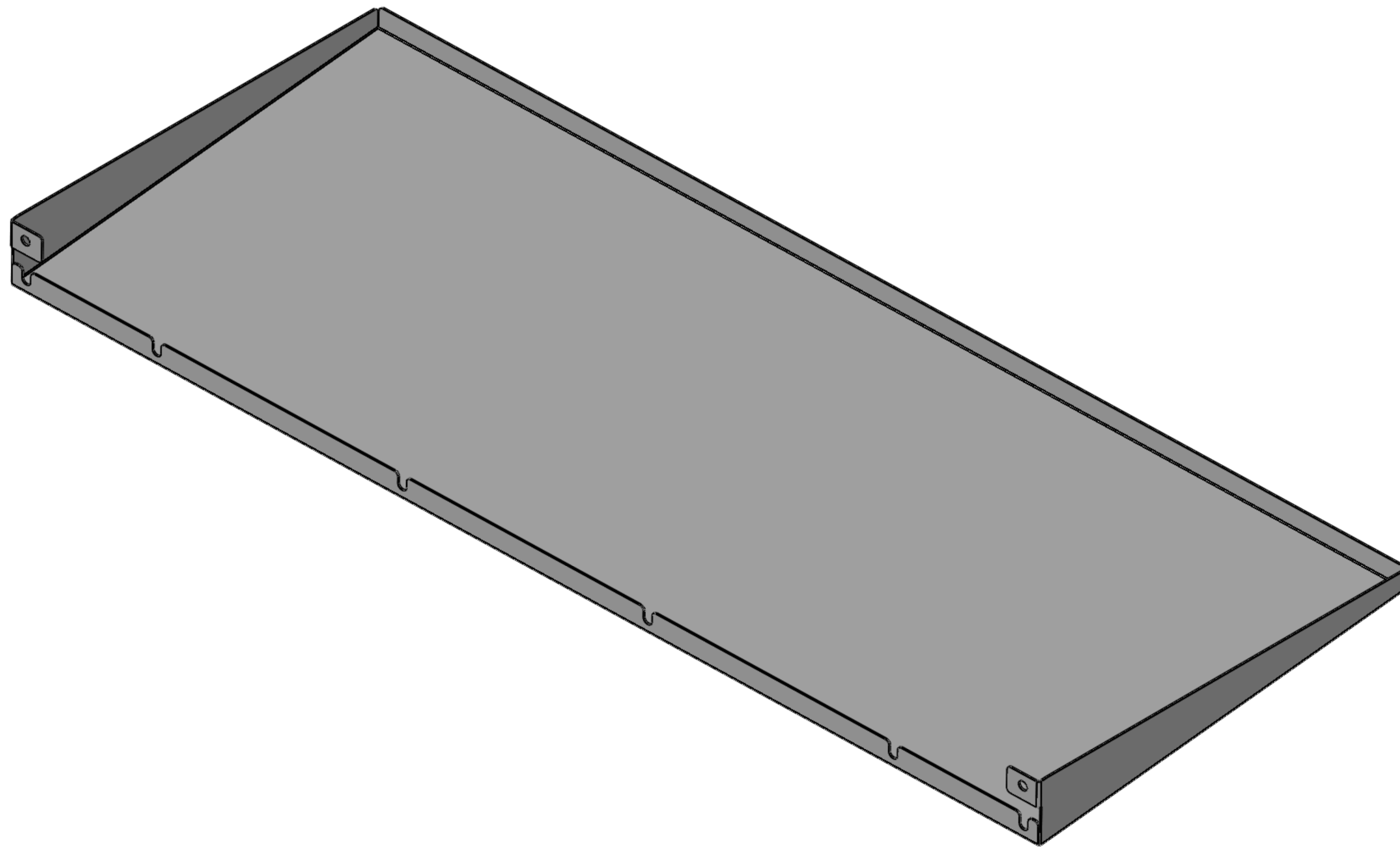


NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± 0.5°	MATERIAL 18 GA Enamel Steel A424 Type I
FINISH ⑤	NEXT ASSY D1000977

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SYSTEM ADVANCED LIGO	SUB-SYSTEM AOS
NEXT ASSY D1000977	

PART NAME				REV.	
<b>ARM CAVITY BAFFLE LOWER LEAF</b>				<b>v1</b>	
DESIGNER N.Nguyen	DATE 01 Jun 2010	SIZE D	DWG. NO. D1001027	SHEET 1 OF 2	
DRAFTER N. NGUYEN	DATE 31 AUG 10	CHECKER M. SMITH	DATE 10 NOV 2010	SCALE: 1:1	
APPROVAL D. COYNE	DATE 20 NOV 2010	PROJECTION:		SHEET 1 OF 2	

D:\001027\_Audi\GO\_AOS\_SLC\_ARM\_Cavity\_Baffle\_Lower\_Leaf\_PRT.PDM.REV.X010.DRAWING.PDM.REV.X008

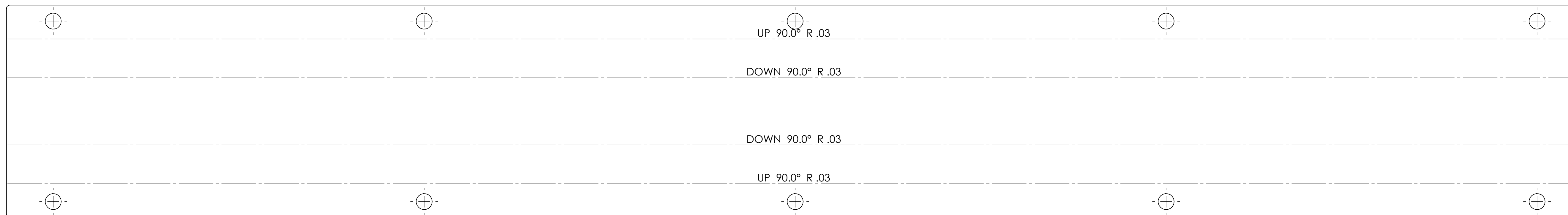
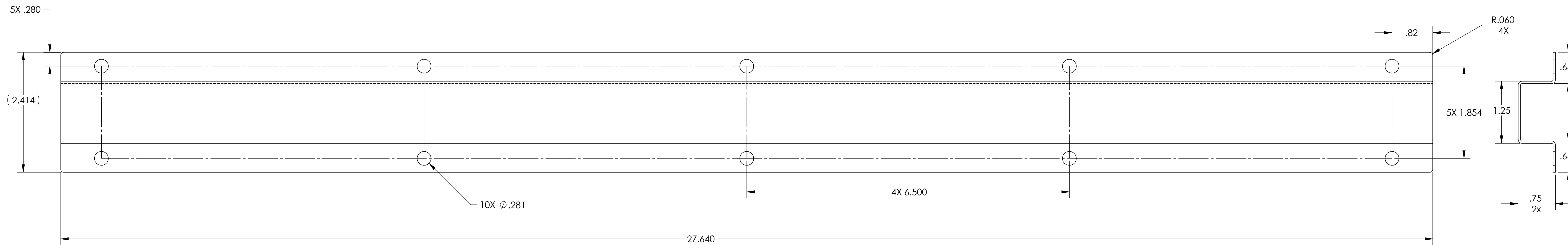


 <b>CALIFORNIA INSTITUTE OF TECHNOLOGY</b> <b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY</b>		REV. <b>v1</b>
SIZE <b>D</b>	DWG. NO. <b>D1001027</b>	SHEET 2 OF 2
SCALE: 1:1	PROJECTION:	

D:\001027\_AudiGO\_AQS\_SLC\_ARM\_Cavity\_Baffle\_Lower\_Left\_PART.PDM\_REV.X019.DRAWING.PDM\_REV.X008

- NOTES CONTINUED:
- ⑤ FINISH: PART WILL BE PORCELAIN COATED IN ACCORDANCE WITH LIGO SPECIFICATION E1000083
  - ⑥ MATL: 18 GA ENAMELING STEEL -A424 TYPE I OR III
  - 7. ALL HOLE AREAS SHALL BE MASKED WITHIN .63 DIA PRIOR PORCELAIN COATED, BOTH SIDES.
  - 8. PART TO BE SMOOTH AND FREE OF BURRS.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 JUN 2010	D1000285	-
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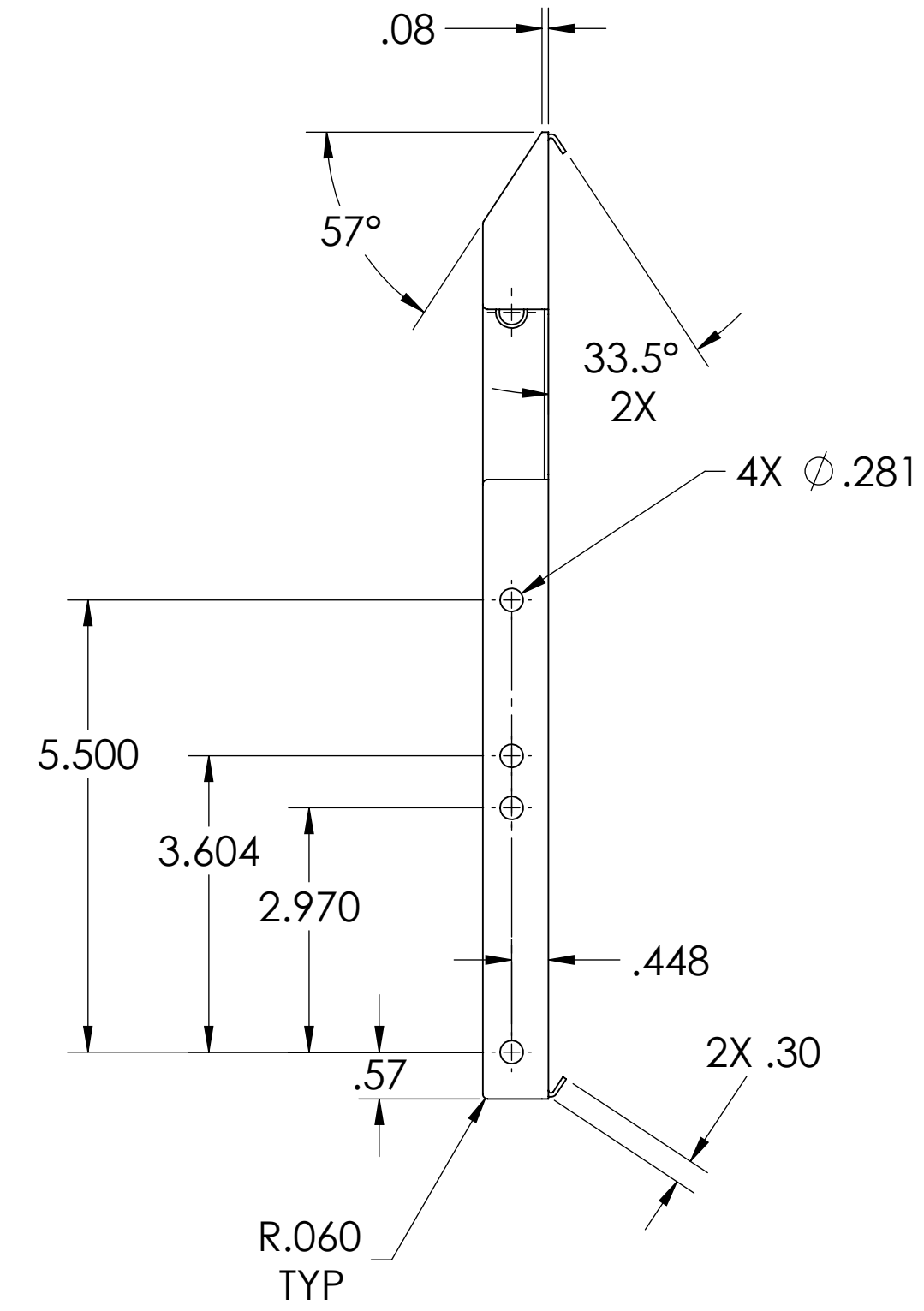
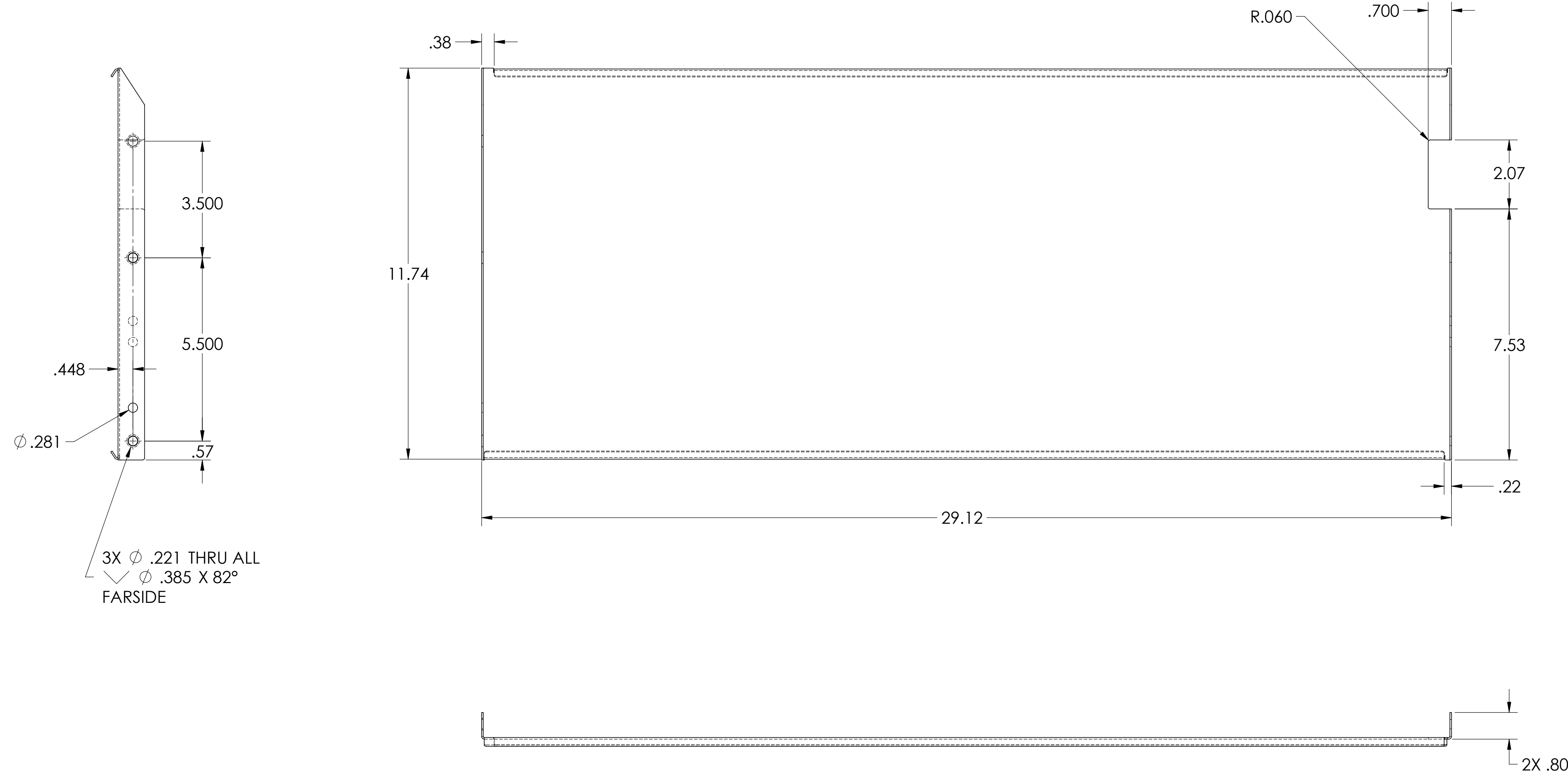
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME						
DIMENSIONS ARE IN INCHES						<b>ACB SIDE REINFORCING HATSECTION</b>						
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.												
TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± 1.0°				<b>ADVANCED LIGO</b>		<b>AOS</b>		<b>DESIGNER</b> N.Nguyen 01 Jul @010	<b>SIZE</b> D	<b>DWG. NO.</b> <b>D1001363</b>	<b>REV.</b> v1	
<b>MATERIAL</b> Enamel A424 Type I				<b>FINISH</b> N/A μinch		<b>NEXT ASSY</b> D1000977		<b>CHECKER</b> M. SMITH 10 NOV 2010	<b>APPROVAL</b> D. COYNE 20 NOV 2010	<b>SCALE:</b> 1:1	<b>PROJECTION:</b>	<b>SHEET 1 OF 1</b>

D1001363\_AutLIGO\_AOS\_31C\_ARM\_Baffles\_Side\_Reinforcing\_Hatsection\_PART\_PDM\_REV\_X-013\_DRAWING\_PDM\_REV\_X-005

NOTES CONTINUED:

- ⑤ FINISH: PART WILL BE PORCELAIN COATED IN ACCORDANCE WITH LIGO SPECIFICATION E1000083
- ⑥ MAT'L: 18 GA ENAMELING STEEL -A424 TYPE I OR III
- 7. ALL EDGES TO BE SMOOTH AND FREE OF BURRS.
- ⑧ ALL HOLE AREAS SHALL BE MASKED WITHIN .63 DIA PRIOR PORCELAIN COATED. BOTH SIDES.

REV.	DATE	DCN #	DRAWING TREE #
v1	08 JUN 2010	E1000285	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME											
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS		ARM CAVITY BAFFLE CTR SKIN							
MATERIAL				FINISH		NEXT ASSY		DESIGNER		DATE		SIZE		DWG. NO.		REV.	
Enamel A424 Type I ⑥				⑤		D1000977		N.Nguyen		02 Jun 2010		D		D1000976		v1	
								DRAFTER		10 AUG 2010		SCALE: 1:2		PROJECTION:		SHEET 1 OF 2	
								CHECKER		20 AUG 2010							
								APPROVAL									

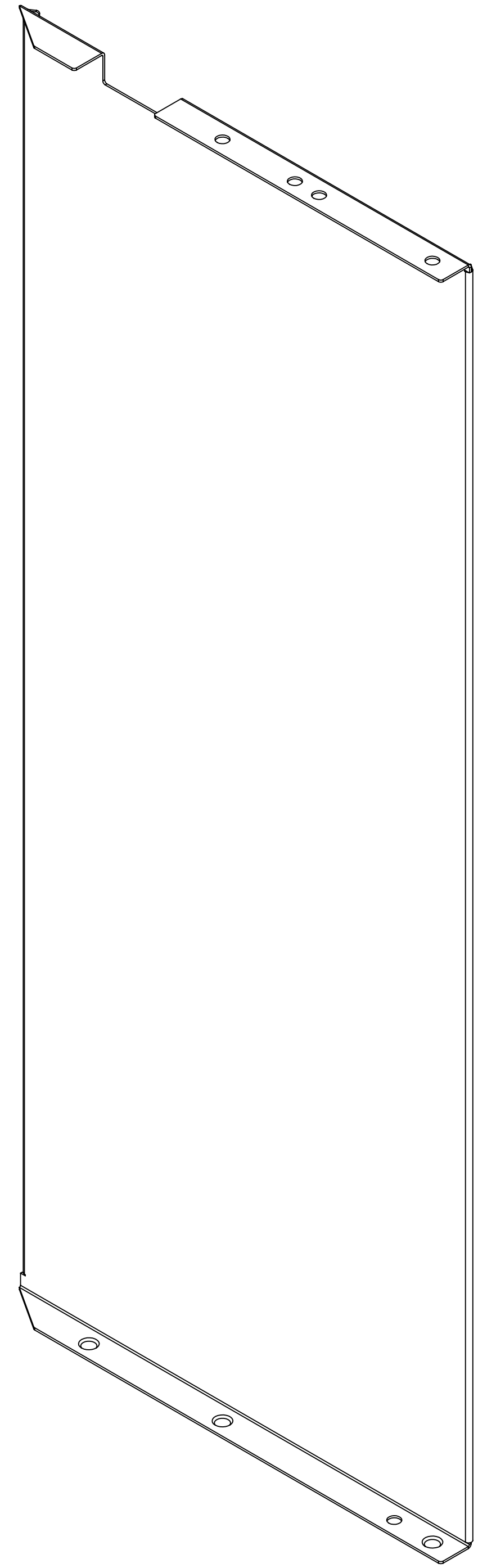
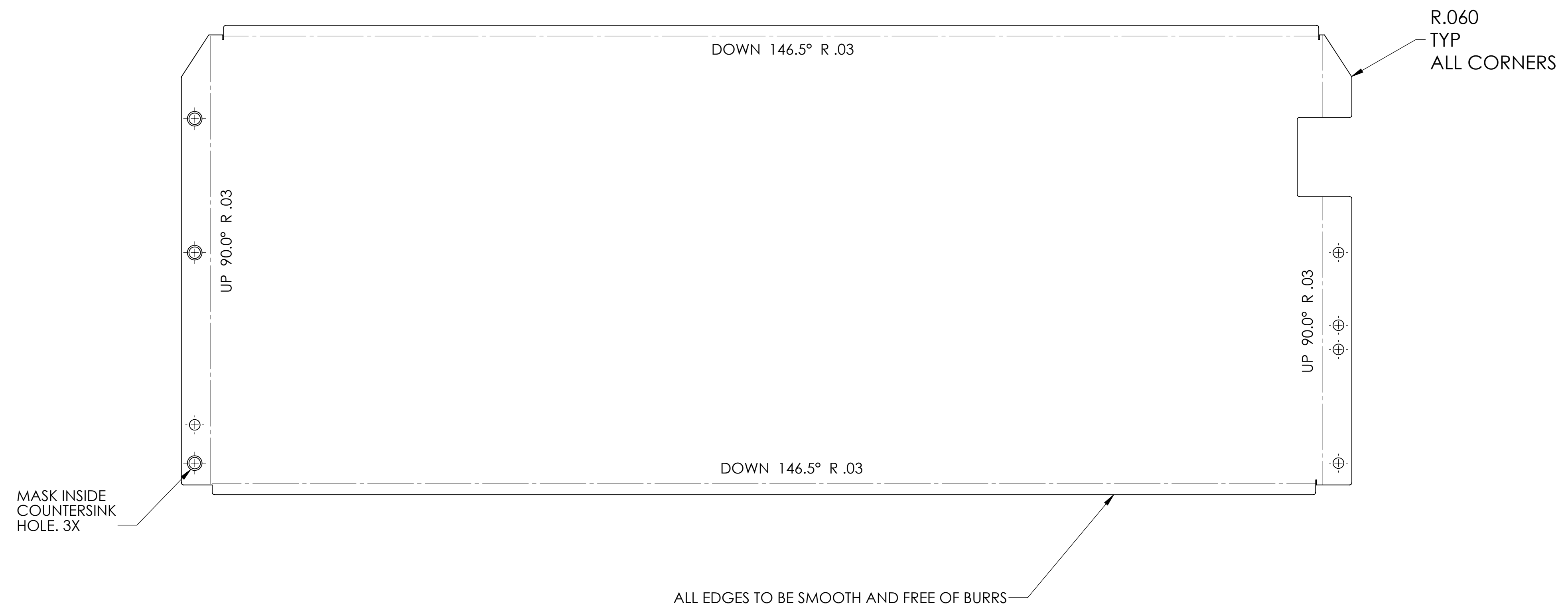
D1000976\_A01.LGO\_A01.ARM Cavity Baffle Center Skin PART PDM REV: X:005 DRAWING PDM REV: X:002



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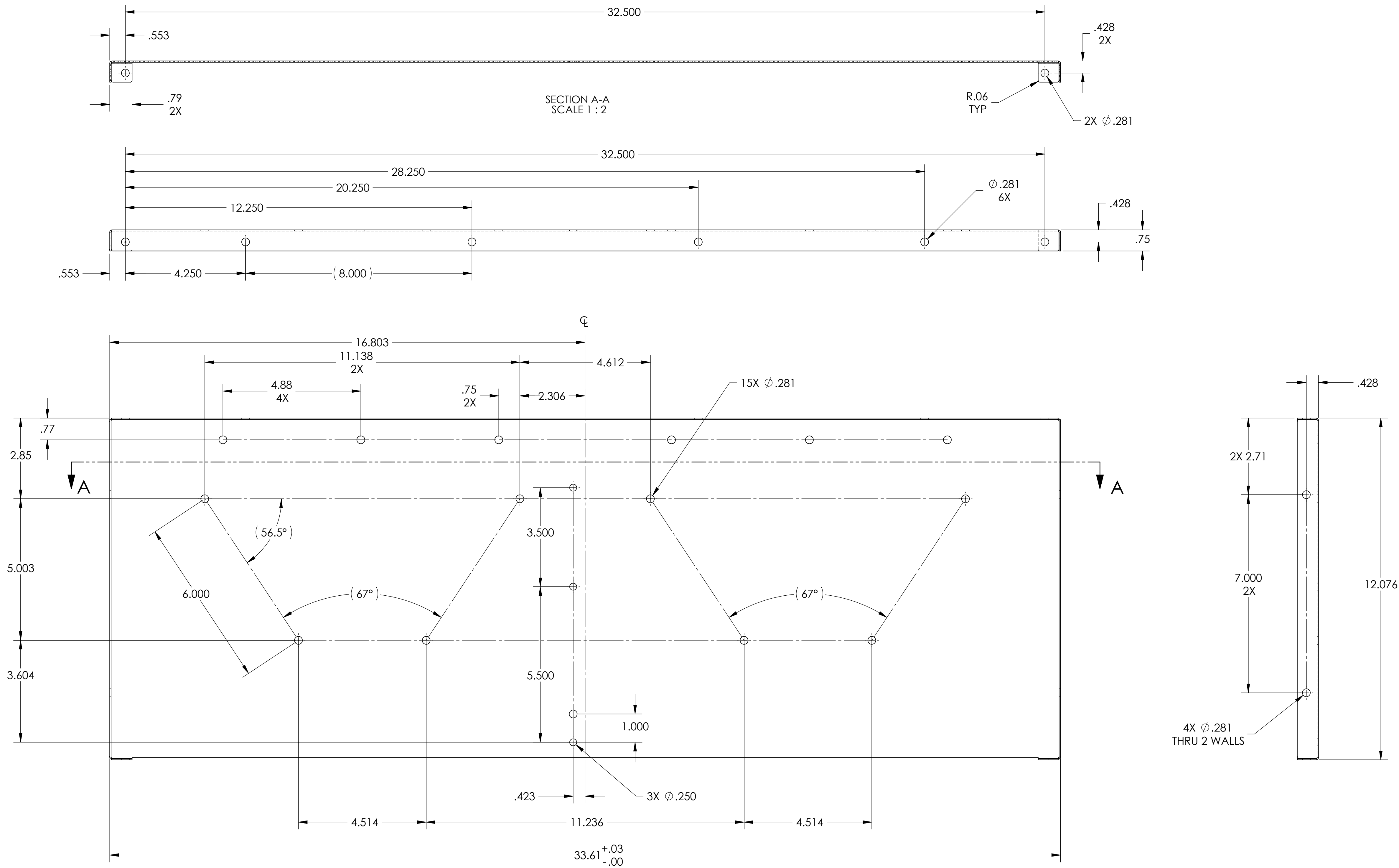


<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE	DWG. NO.	v1
<b>D</b>	<b>D1000976</b>	
SCALE: 1:2	PROJECTION:	SHEET 2 OF 2


D:\000976\_Adu\G0\_A03\_SLC\_ARM\_Cavity\_Baffle\_Center\_Sin\_PART\_PDM\_REV\_X:005\_DRAWING\_PDM\_REV\_X:002

- NOTES CONTINUED:
- ⑤ FINISH: PART WILL BE PORCELAIN COATED IN ACCORDANCE WITH LIGO SPECIFICATION E1000083
  - ⑥ MAT'L: 18 GA ENAMELING STEEL -A424 TYPE I OR III
  - 7. ALL EDGES TO BE SMOOTH AND FREE OF BURRS.
  - 8 ALL HOLE AREAS SHALL BE MASKED WITHIN .63 DIA PRIOR PORCELAIN COATED. BOTH SIDES.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 AUG 2010	E1000285	



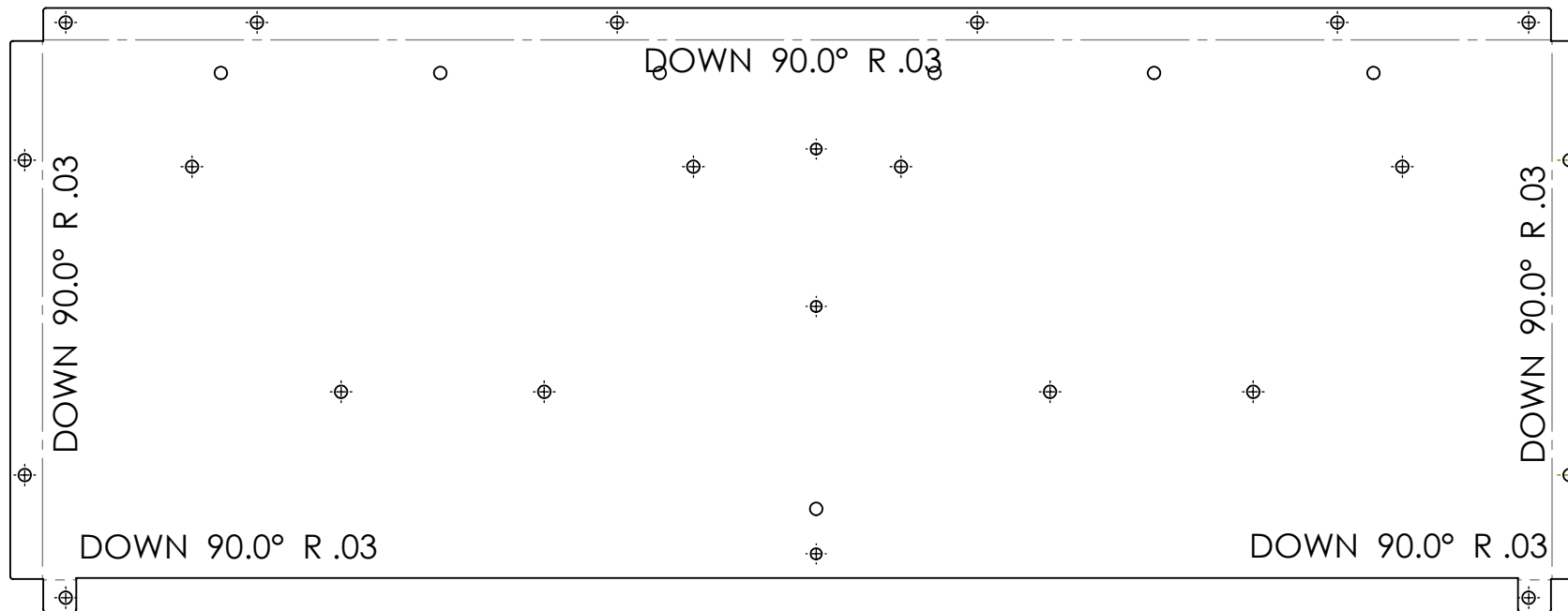
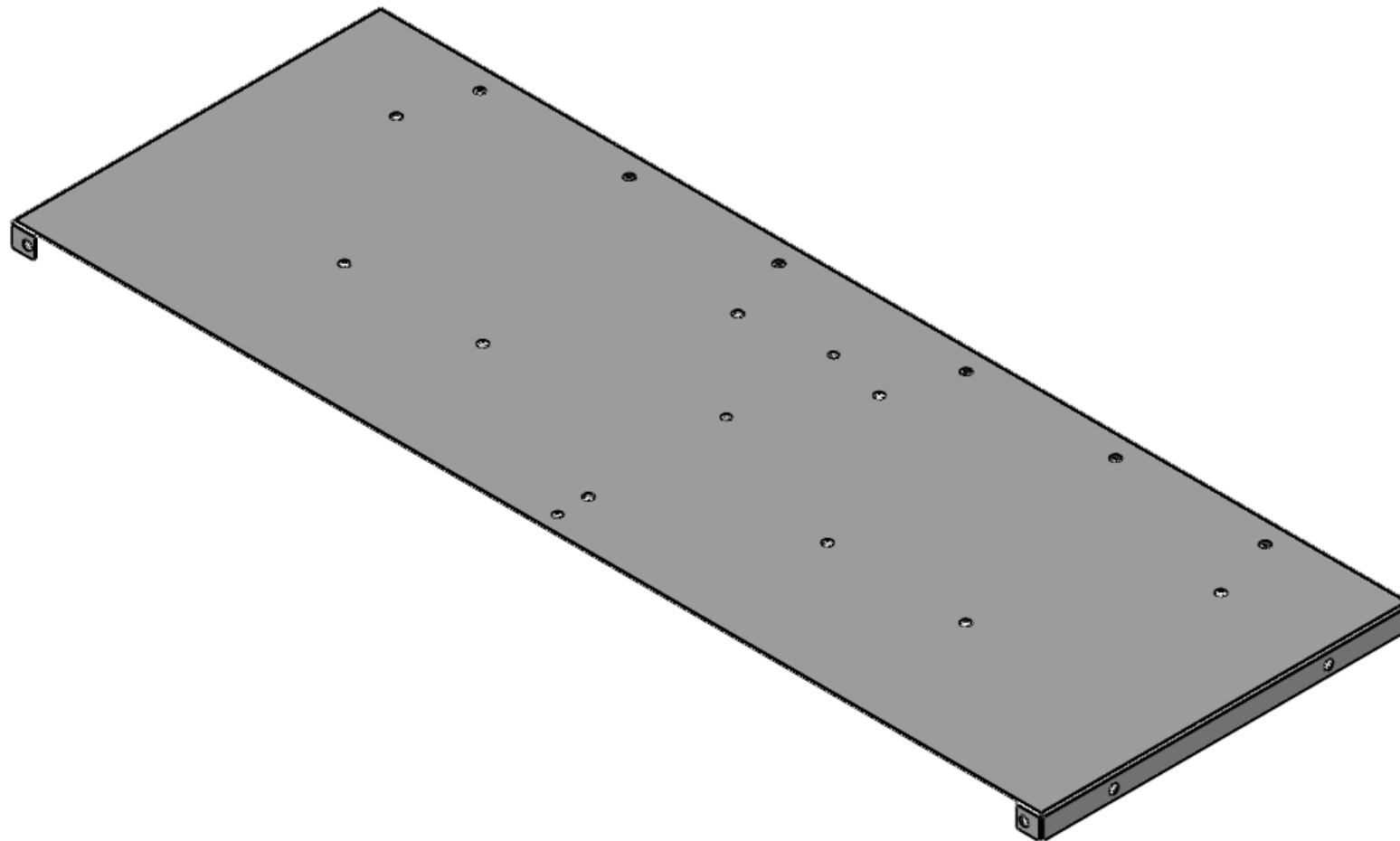
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± .02 .XXX ± .010	
ANGULAR ± 1.0°	
MATERIAL	FINISH
Enamel A424 Type I ⑥	⑤

 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SYSTEM	SUB-SYSTEM
ADVANCED LIGO	AOS
NEXT ASSY	
D1000977	

PART NAME				REV.	
ARM CAVITY BAFFLE BTM SKIN				v1	
DESIGNER	N.Nguyen	01 Jun 2010	SIZE	DWG. NO.	
DRAFTER	TG. NGUYEN	27 MAY 2010	D	D1000975	
CHECKER	M. SMITH	10 NOV 2010	SCALE:	1:4	
APPROVAL	D. COYNE	20 NOV 2010	PROJECTION:	SHEET 1 OF 2	

D1000975\_AudiLIGO\_AOS\_3LC\_ARM\_Cavity\_Baffle\_Bottom\_Skin\_PART\_PDM\_REV\_X:022\_DRAWING\_PDM\_REV\_X:011

D1000975\_AdLIGO\_AOS\_SLC\_ARM\_CavityBaffleBottomSkin, PART PDM REV: X-022, DRAWING PDM REV: X-011



**LIGO** CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE	DWG. NO.	REV.
<b>B</b>	D1000975	v1
SCALE: 1:4		PROJECTION:
SHEET 2 OF 2		

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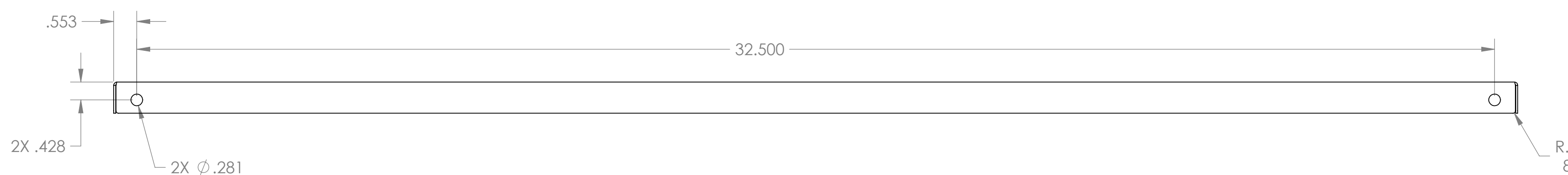
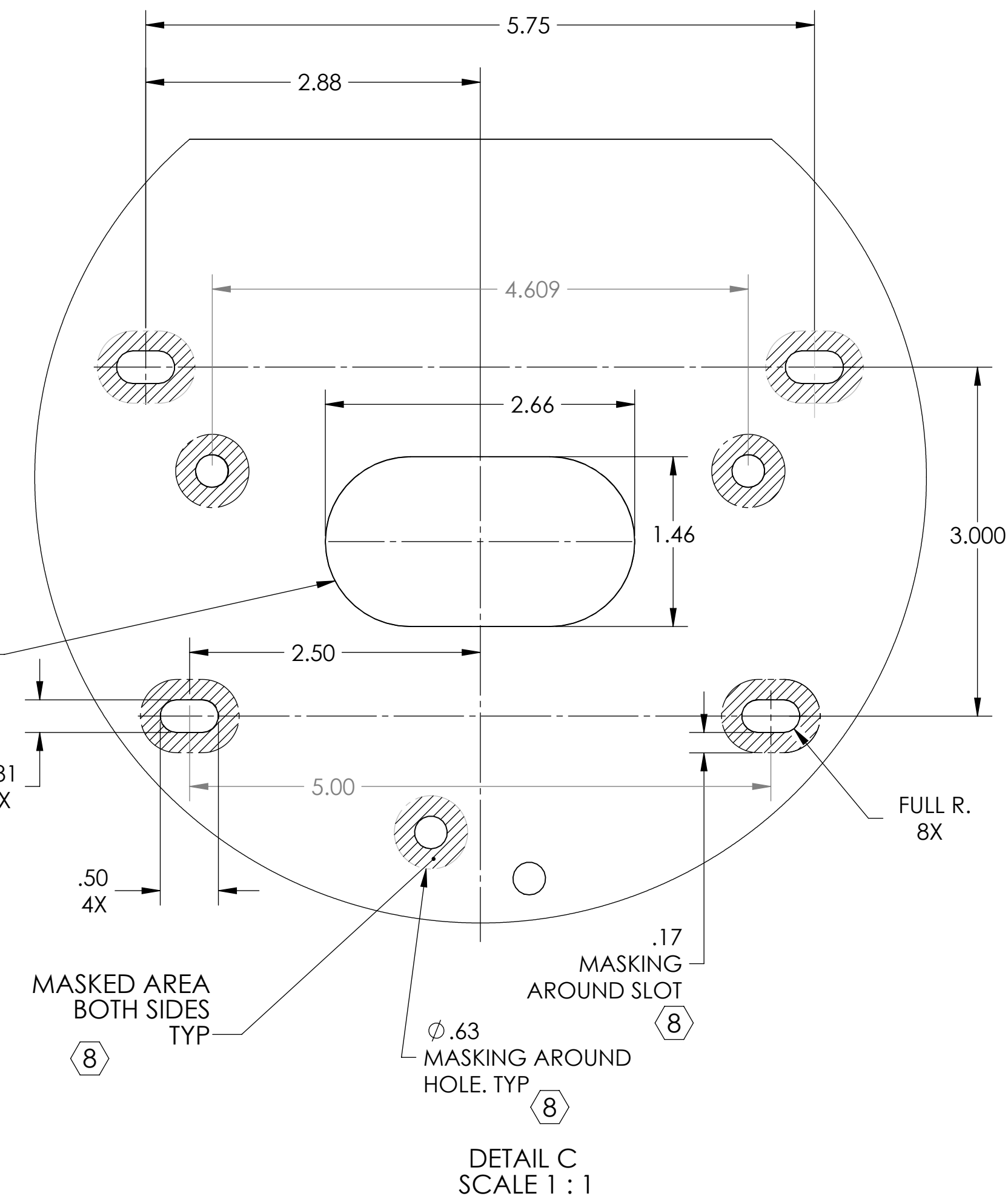
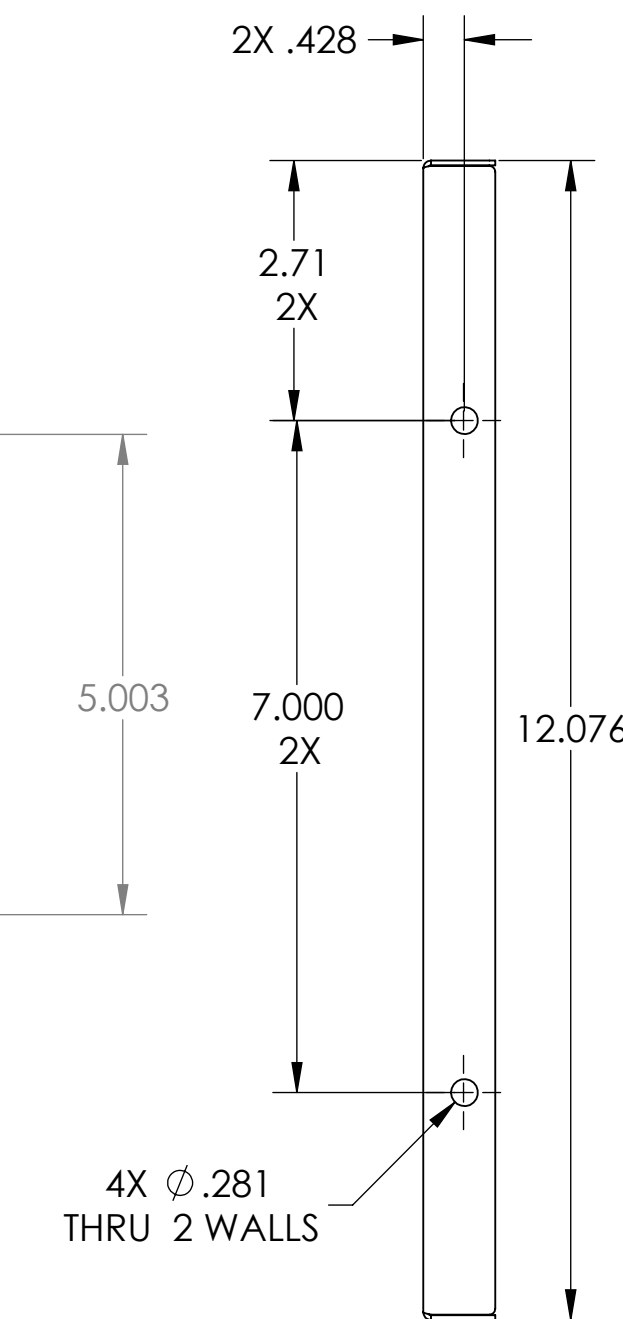
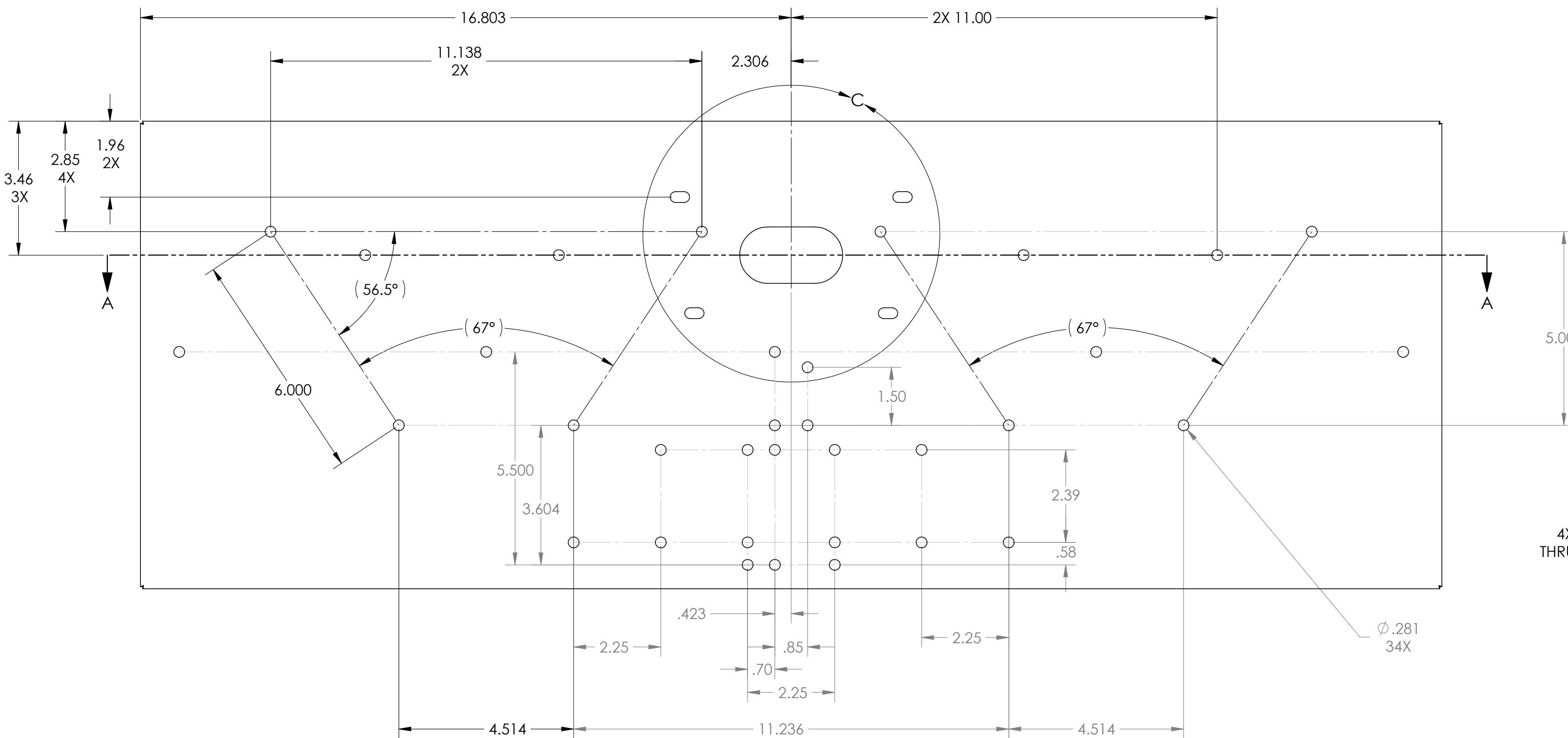
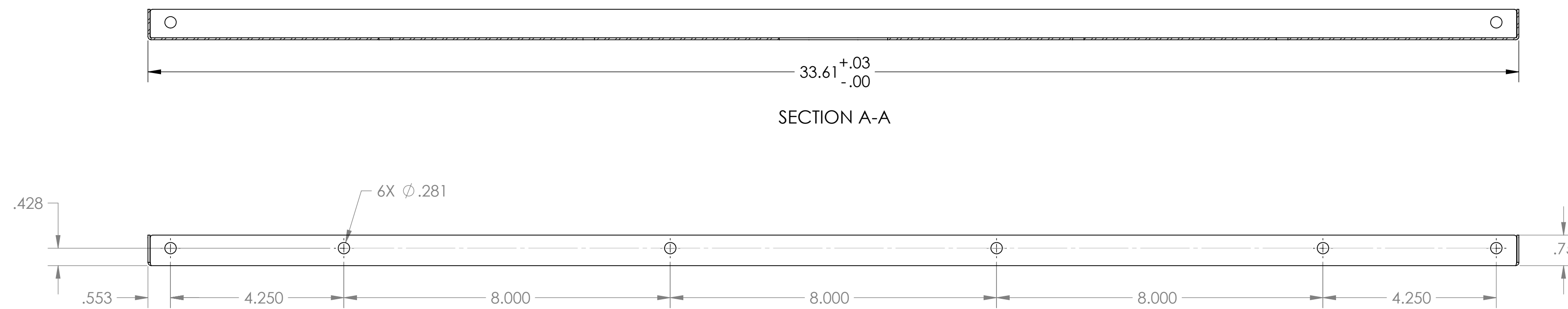
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- NOTES CONTINUED:**
- ⑤ FINISH: PART WILL BE PORCELAIN COATED IN ACCORDANCE WITH LIGO SPECIFICATION E1000083
  - ⑥ MATL: 18 GA ENAMELING STEEL -A424 TYPE I OR III
  - 7 ALL EDGES TO BE SMOOTH AND FREE OF BURRS.
  - ⑧ ALL HOLE AREAS SHALL BE MASKED WITHIN .63 DIA PRIOR PORCELAIN COATED, BOTH SIDES.

REV.	DATE	DCN #	DRAWING TREE #
v1	15 JUN 2010	E1000285	

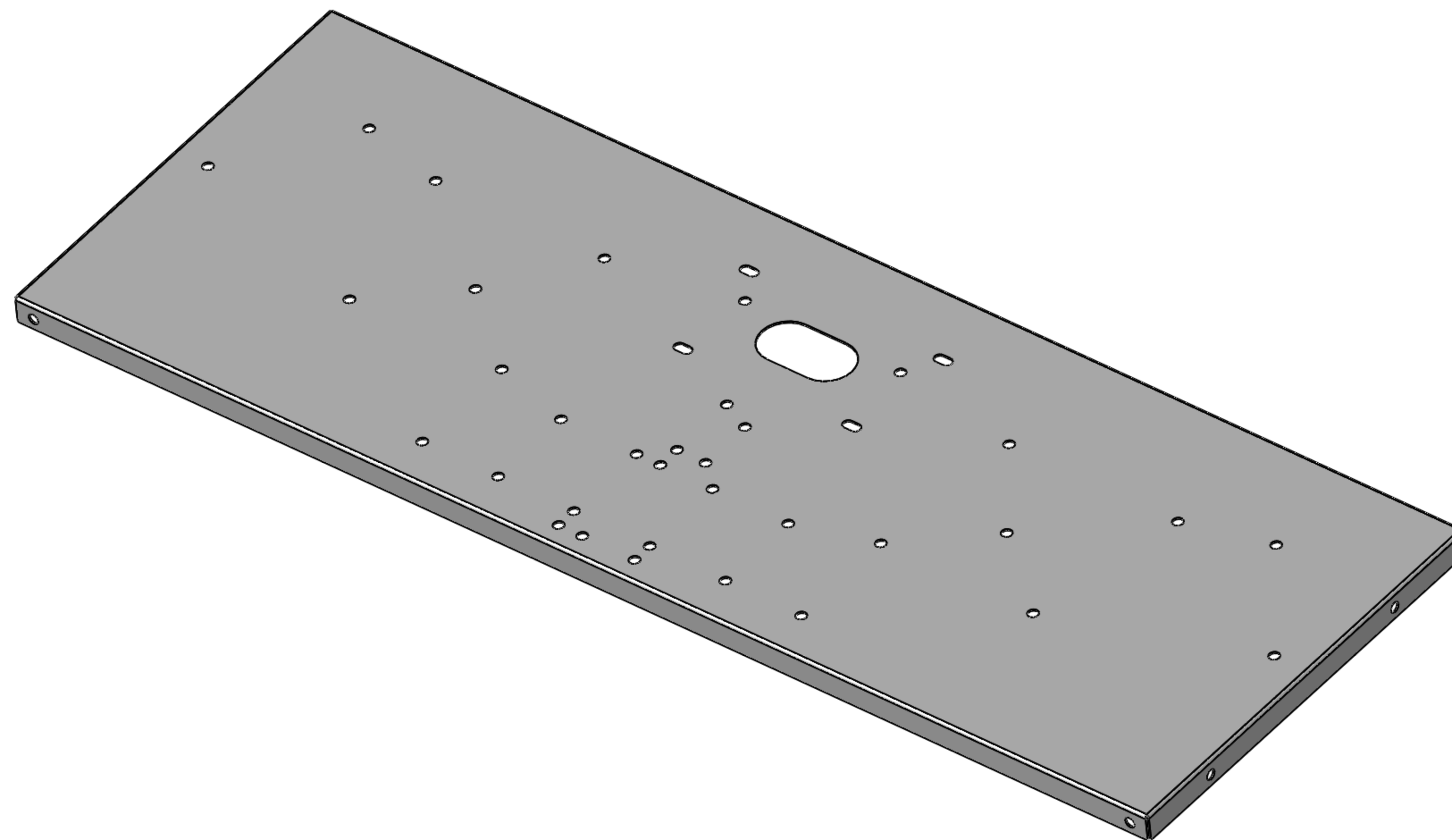
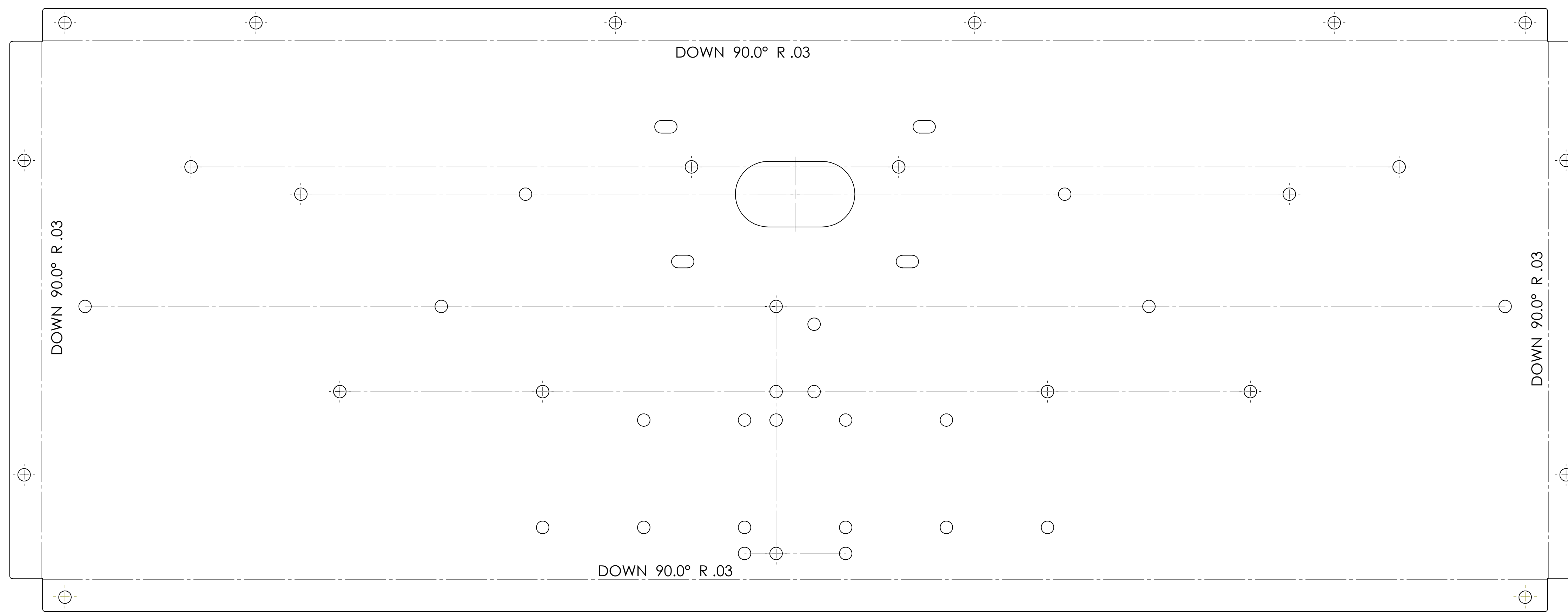


NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± .02 .XXX ± .010	
ANGULAR ± 1.0°	
MATERIAL	FINISH
Enamel A424 Type I ⑥	⑤

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SYSTEM	SUB-SYSTEM
ADVANCED LIGO	AOS
NEXT ASSY	
D1000977	

PART NAME			
ARM CAVITY BAFFLE TOP SKIN			
DESIGNER	N.Nguyen	01 Jun 2010	SIZE DWG. NO.
DRAFTER	TG. NGUYEN	04 JUN 2010	D
CHECKER	M. SMITH	10 NOV 2010	D1000974
APPROVAL	D. COYNE	20 NOV 2010	SCALE: 1:2
PROJECTION:		SHEET 1 OF 2	

D1000977L\_AduLIGO\_AOS\_3LC\_ARM Cavity Baffle Top Skin, PART PDM REV: X04, DRAWING PDM REV: X018

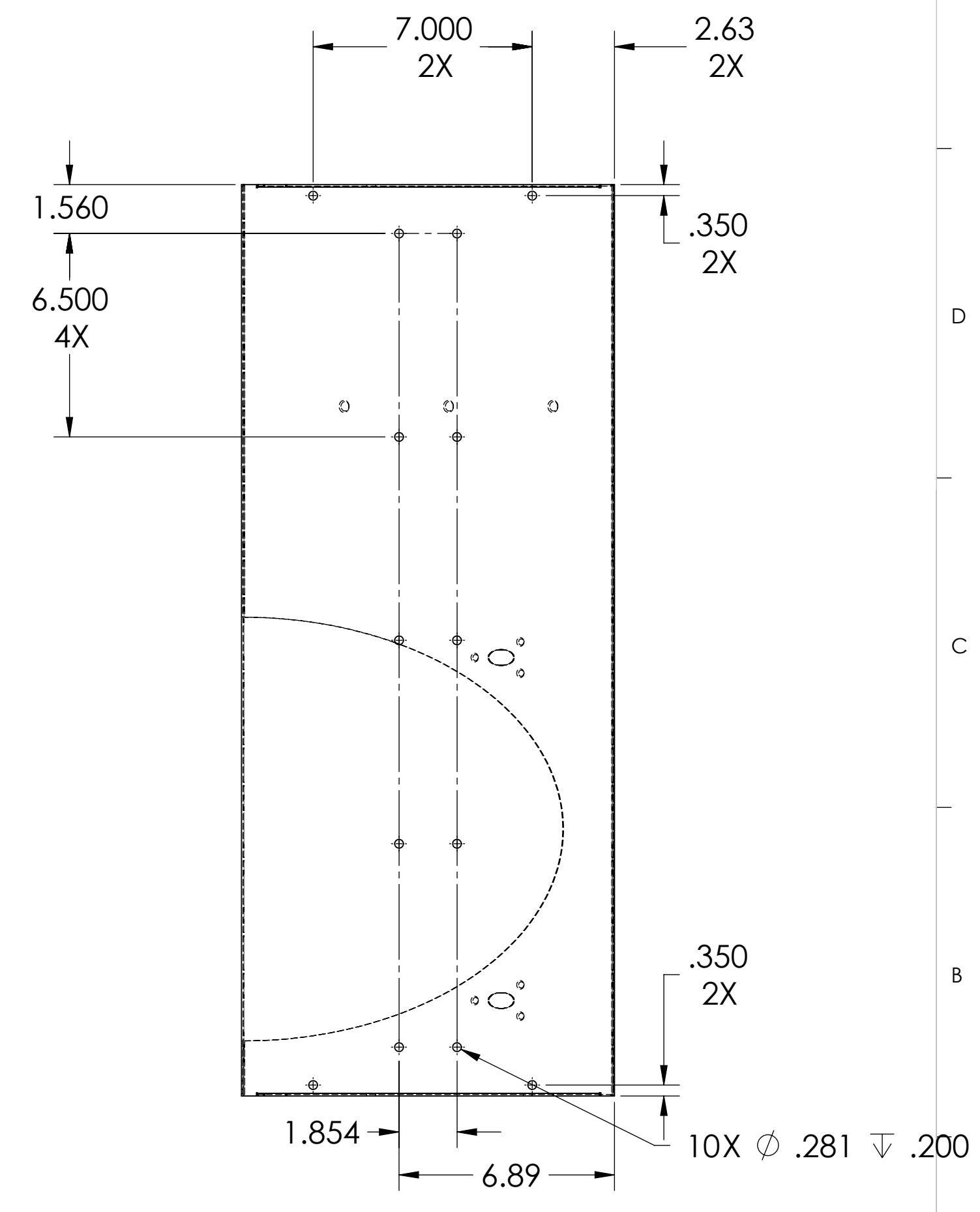
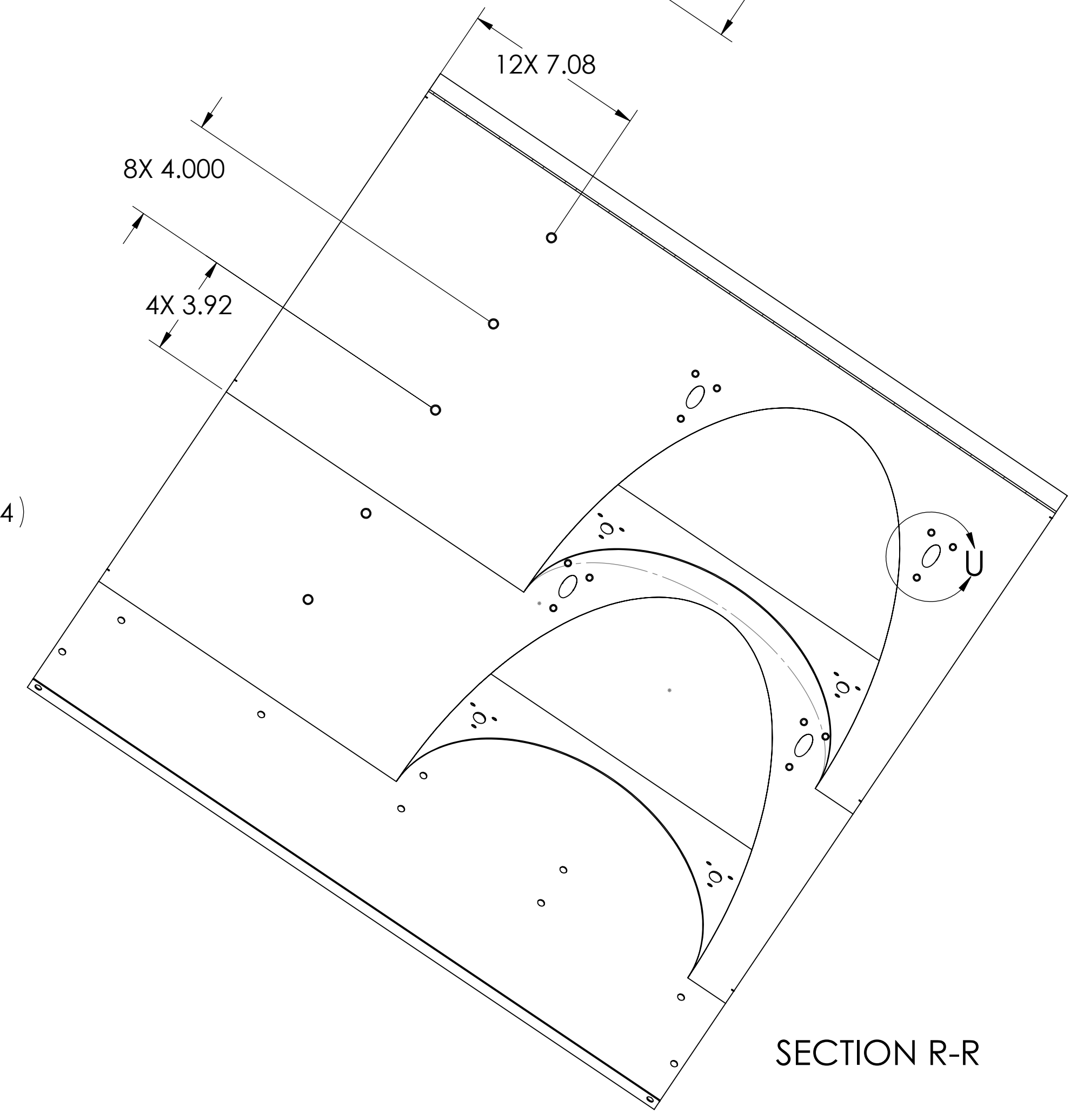
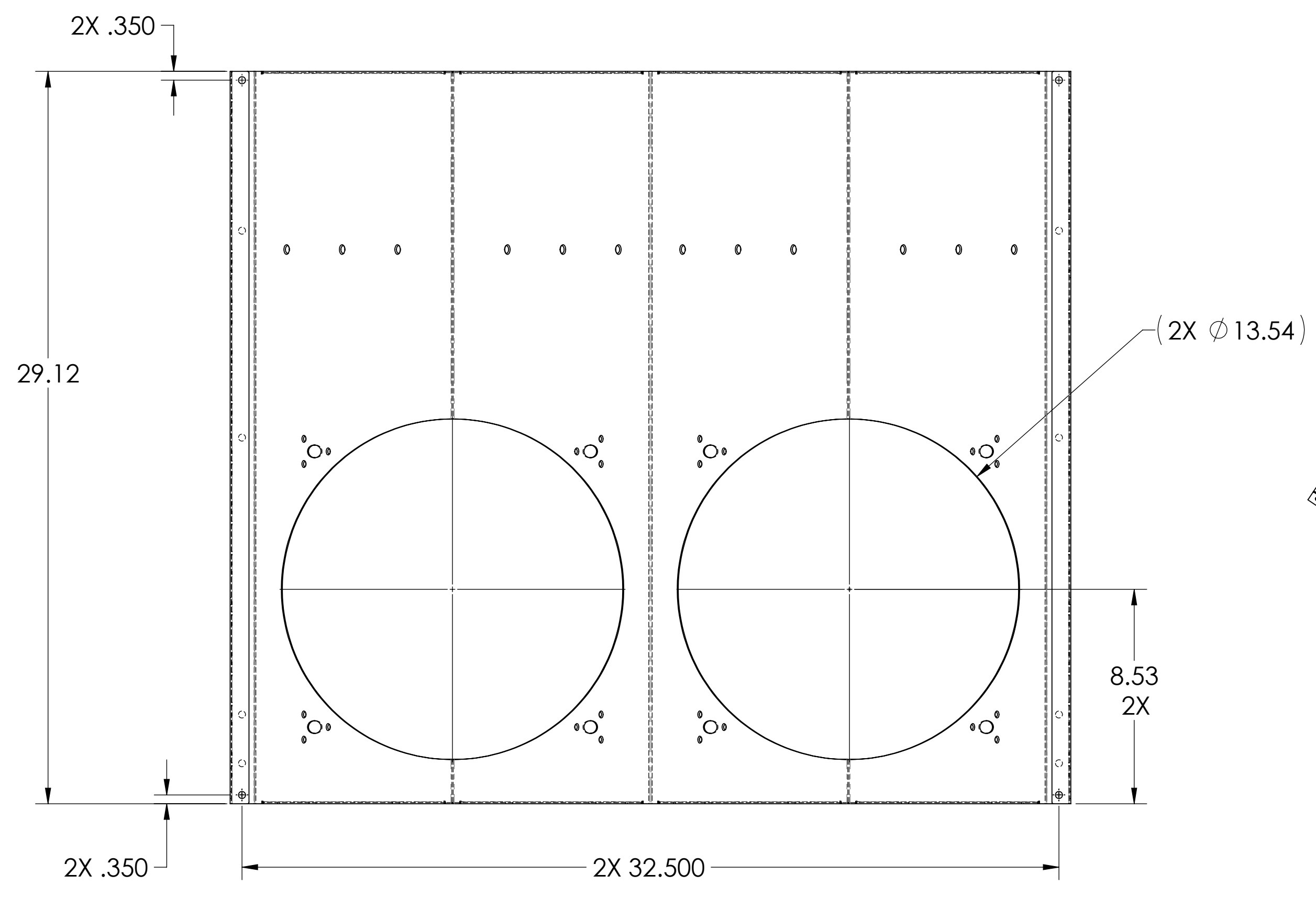
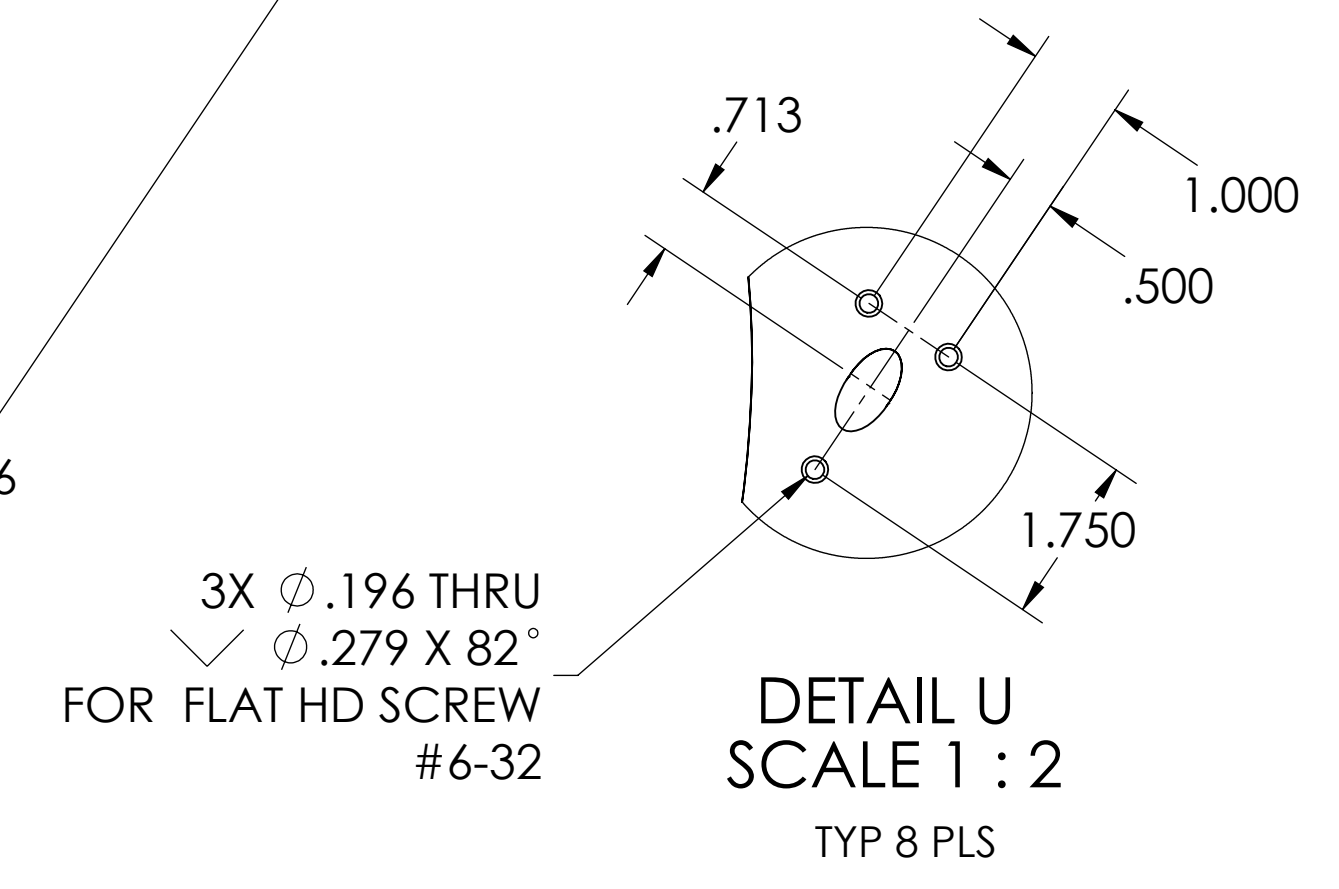
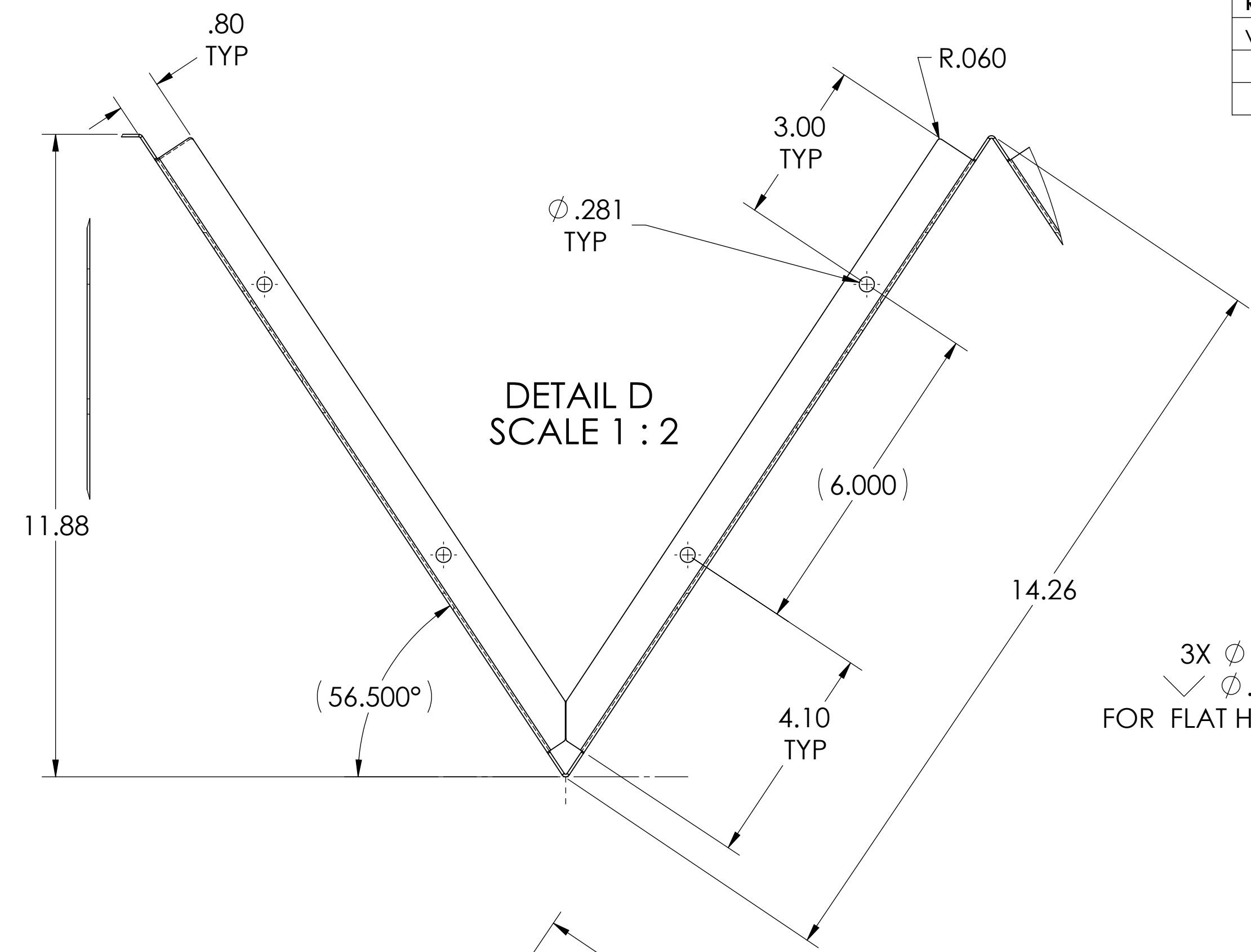
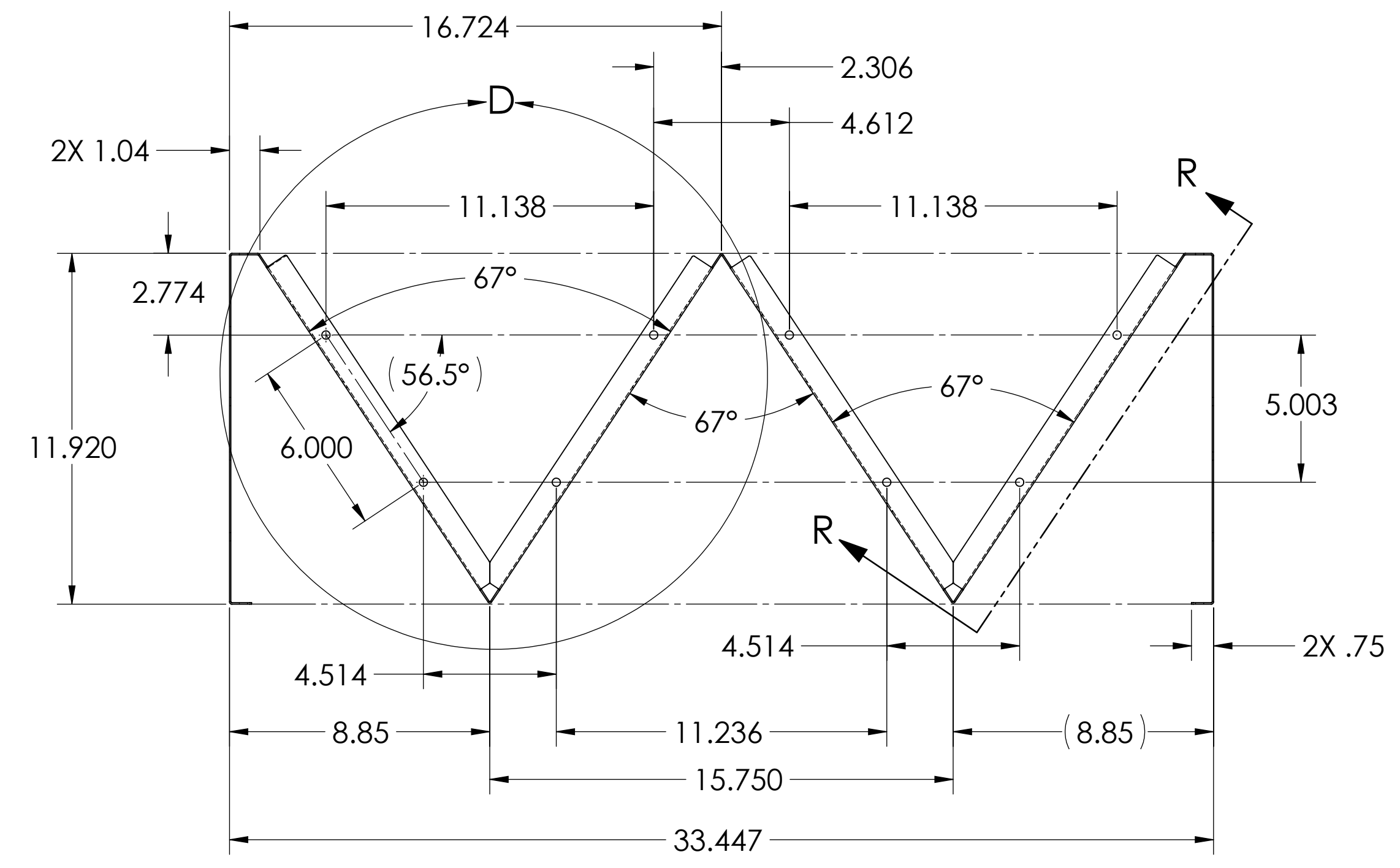


		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE	DWG. NO.	REV.	
D	D1000974	v1	
SCALE: 1:2	PROJECTION:	SHEET 2 OF 2	

D1000974\_AduIGO\_AOS\_SLC\_ARM\_Covily\_Bottle\_Top\_Skin\_PART\_PDM\_REV\_X.04\_DRAWING\_PDM\_REV\_X.018

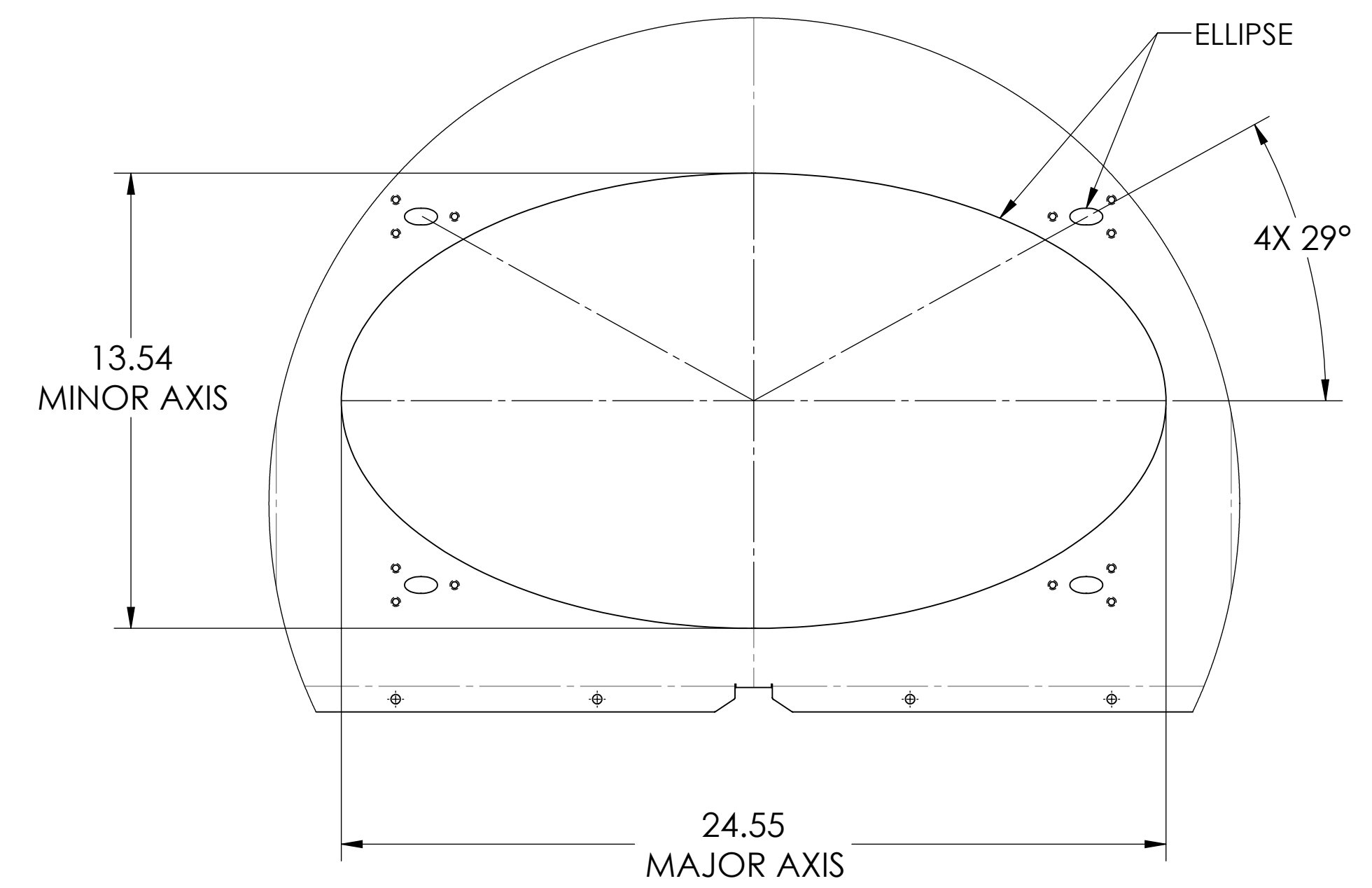
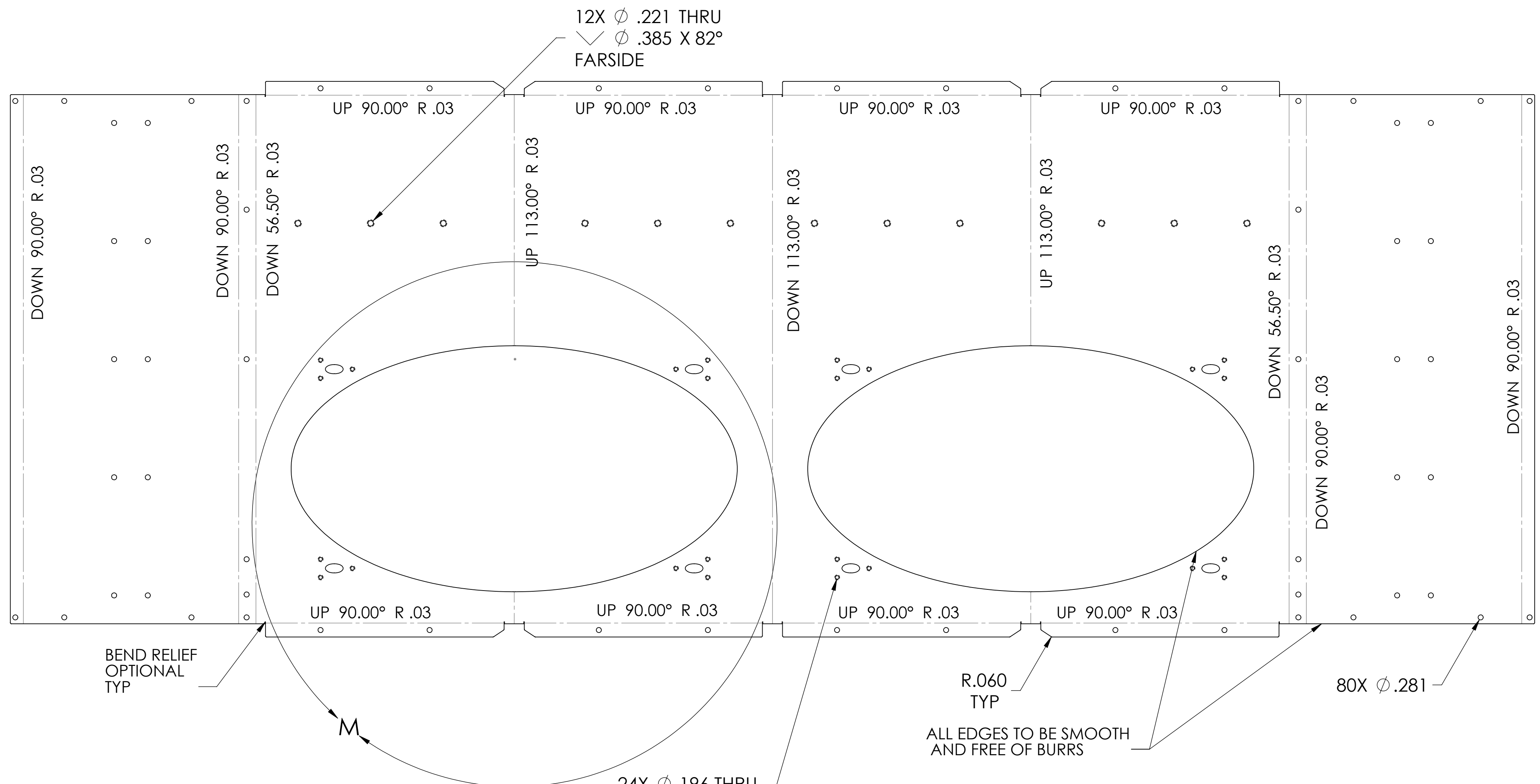
- 5. MAT'L: 18 GA ENAMELING STEEL -A424 TYPE I OR III.
- 6. ALL EDGES TO BE SMOOTH AND FREE OFF BURRS.
- 7. FINISH: PART WILL BE PORCELAIN COATED IN ACCORDANCE WITH LIGO SPECIFICATION E1000083
- 8. ALL HOLE AREAS SHALL BE MASKED WITHIN .63 DIA PRIOR PORCELAIN COATED. BOTH SIDES

REV.	DATE	DCN #	DRAWING TREE #
v1	02 JUL 2010	E1000285	

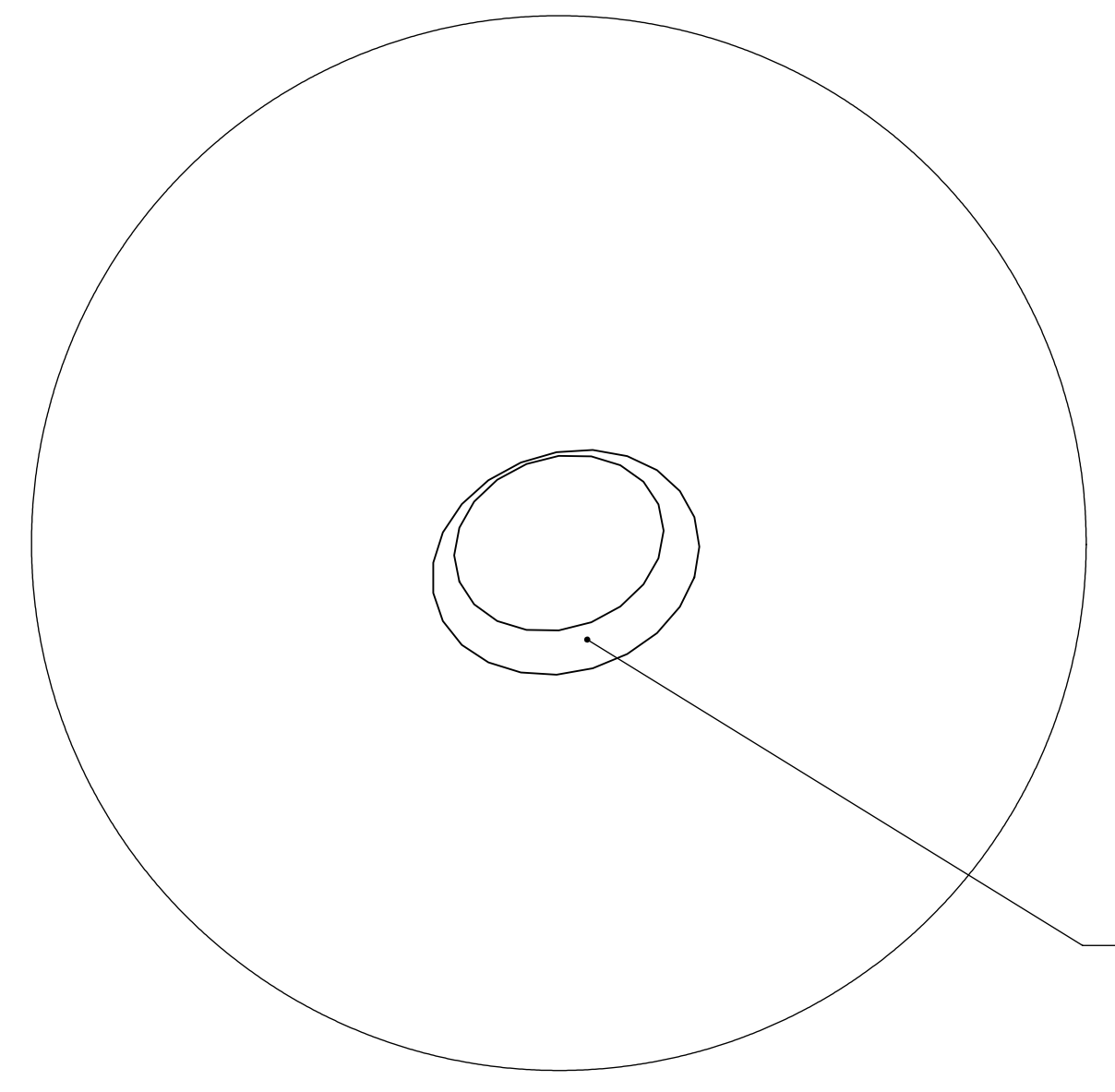


NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY				PART NAME			
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.				<b>ADVANCED LIGO</b>				<b>ARM CAVITY BAFFLE SKIN</b>			
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± 1.0°				MATERIAL: 18 GA Enamel Steel A424 Type I FINISH: SEE NOTE 7				DESIGNER: N.Nguyen 20 May 2010 DRAFTER: TG. NGUYEN 27 MAY 2010 CHECKER: M. SMITH 10 NOV 2010 APPROVAL: D. COYNE 20 NOV 2010			
				SYSTEM: ADVANCED LIGO SUB-SYSTEM: AOS NEXT ASSY: D1000977				SIZE: D DWG. NO.: D1000973 SCALE: 1:4 PROJECTION:			
								REV. v1 SHEET 1 OF 3			

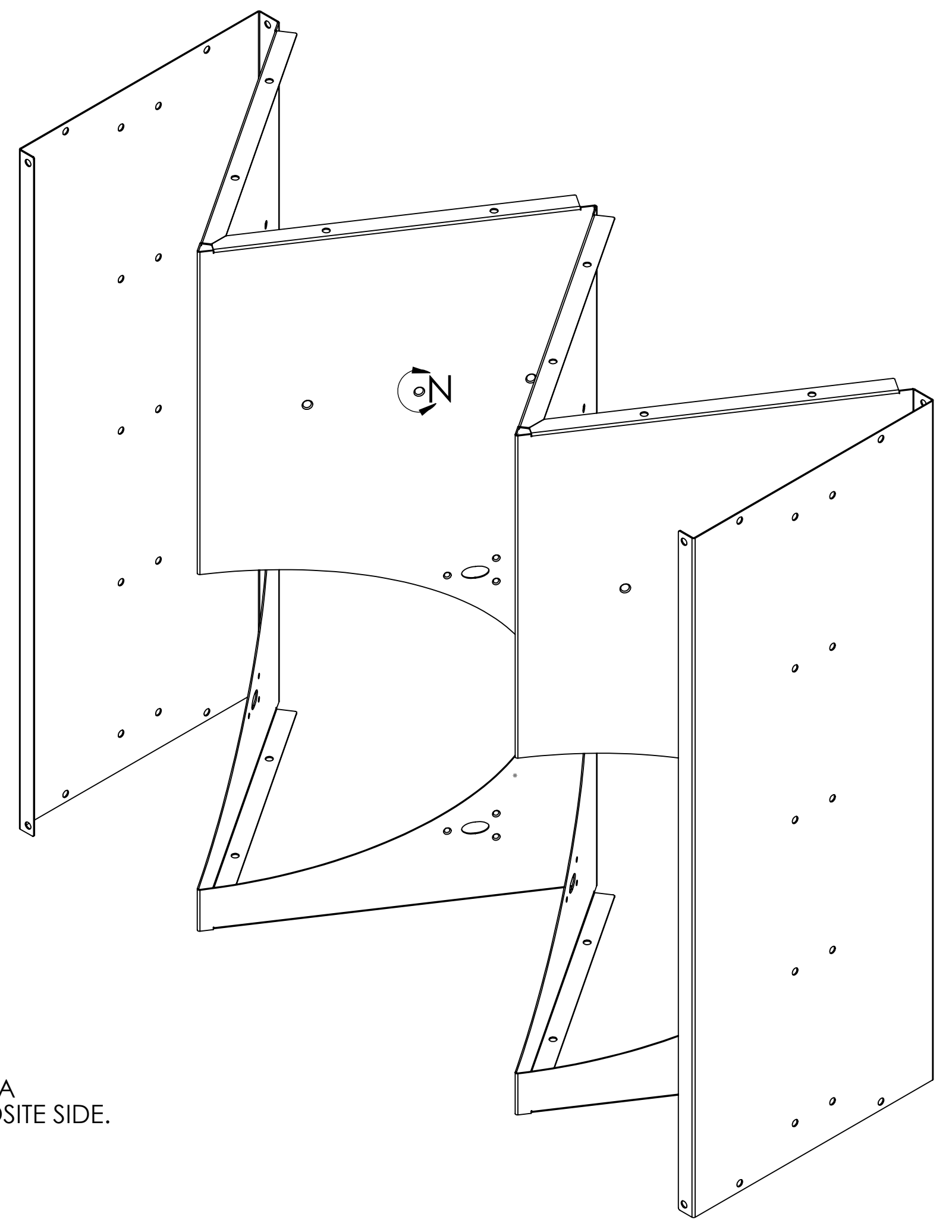
D1000973\_AduLIGO\_AOS\_SLC\_ARM\_Cavity\_Baffle\_Skin\_PART\_PDM\_REV\_X-034\_DRAWING\_PDM\_REV\_X-015



DETAIL M



DETAIL N  
SCALE 4 : 1



CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		SIZE DWG. NO. <b>D</b> <b>D1000973</b>	REV. <b>v1</b>
SCALE: 1:4	PROJECTION:	SHEET 2 OF 3	

D1000973\_AudiLIGO\_ACS\_SLC\_ARM\_Covily\_Bottle\_Sign\_PART\_PDM\_REV\_X-034\_DRAWING\_PDM\_REV\_X-015

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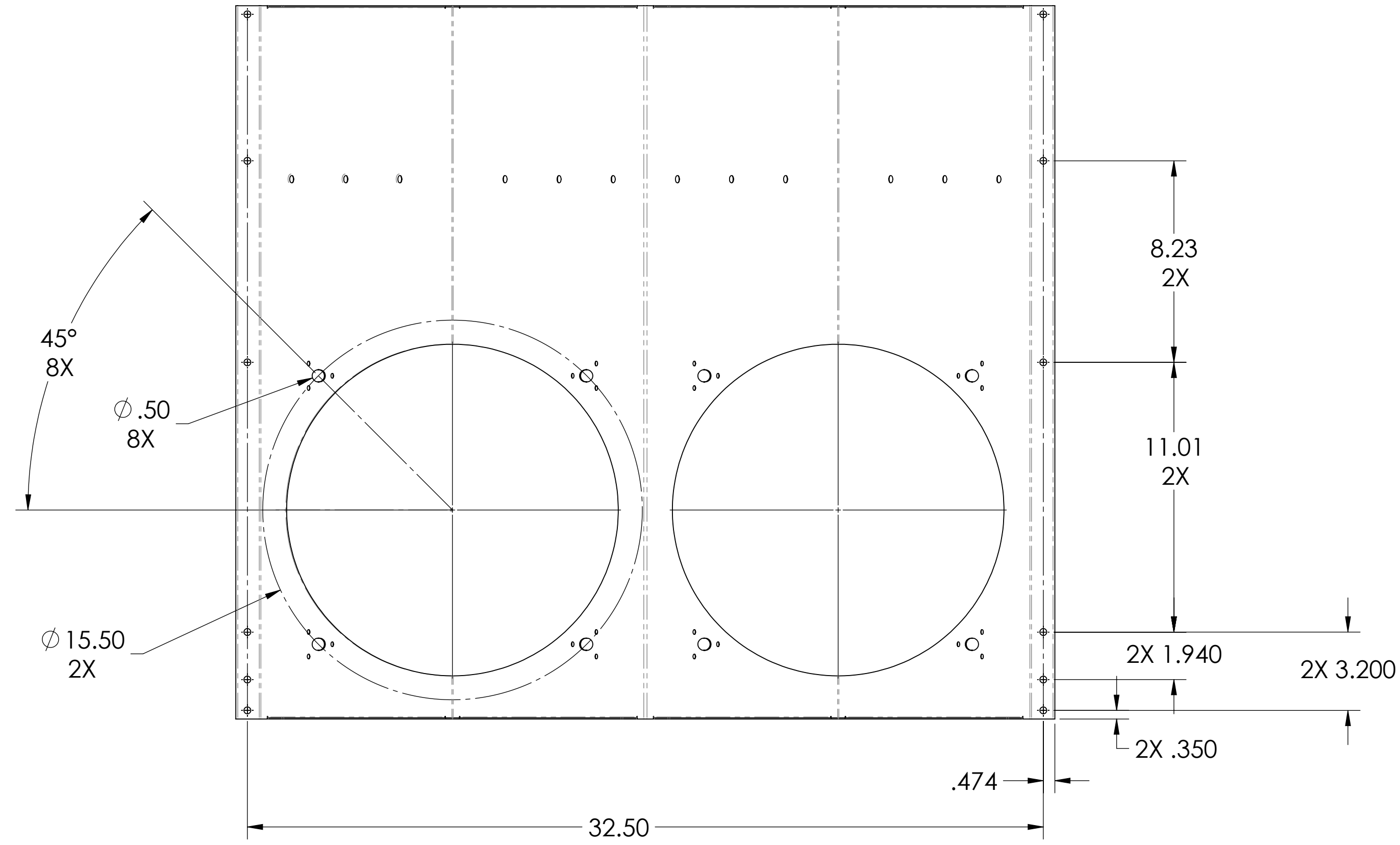
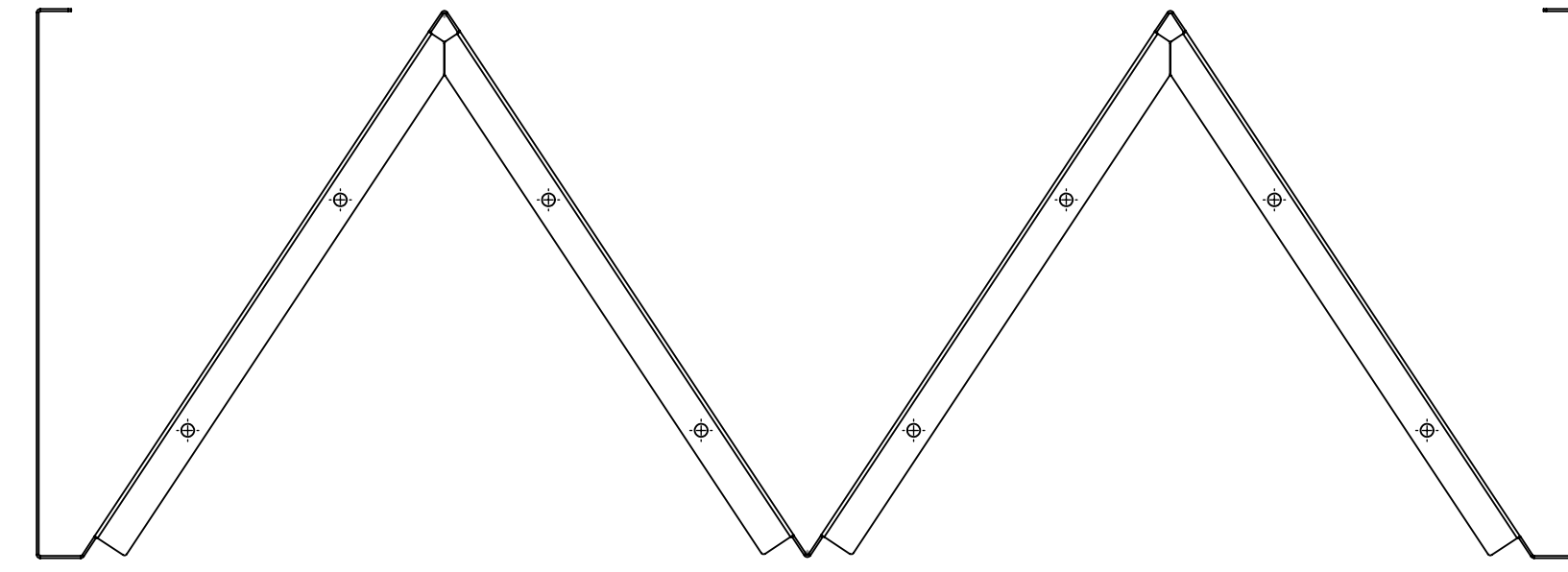
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<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE	DWG. NO.	REV.
D	D1000973	v1
SCALE: 1:4	PROJECTION:	SHEET 3 OF 3

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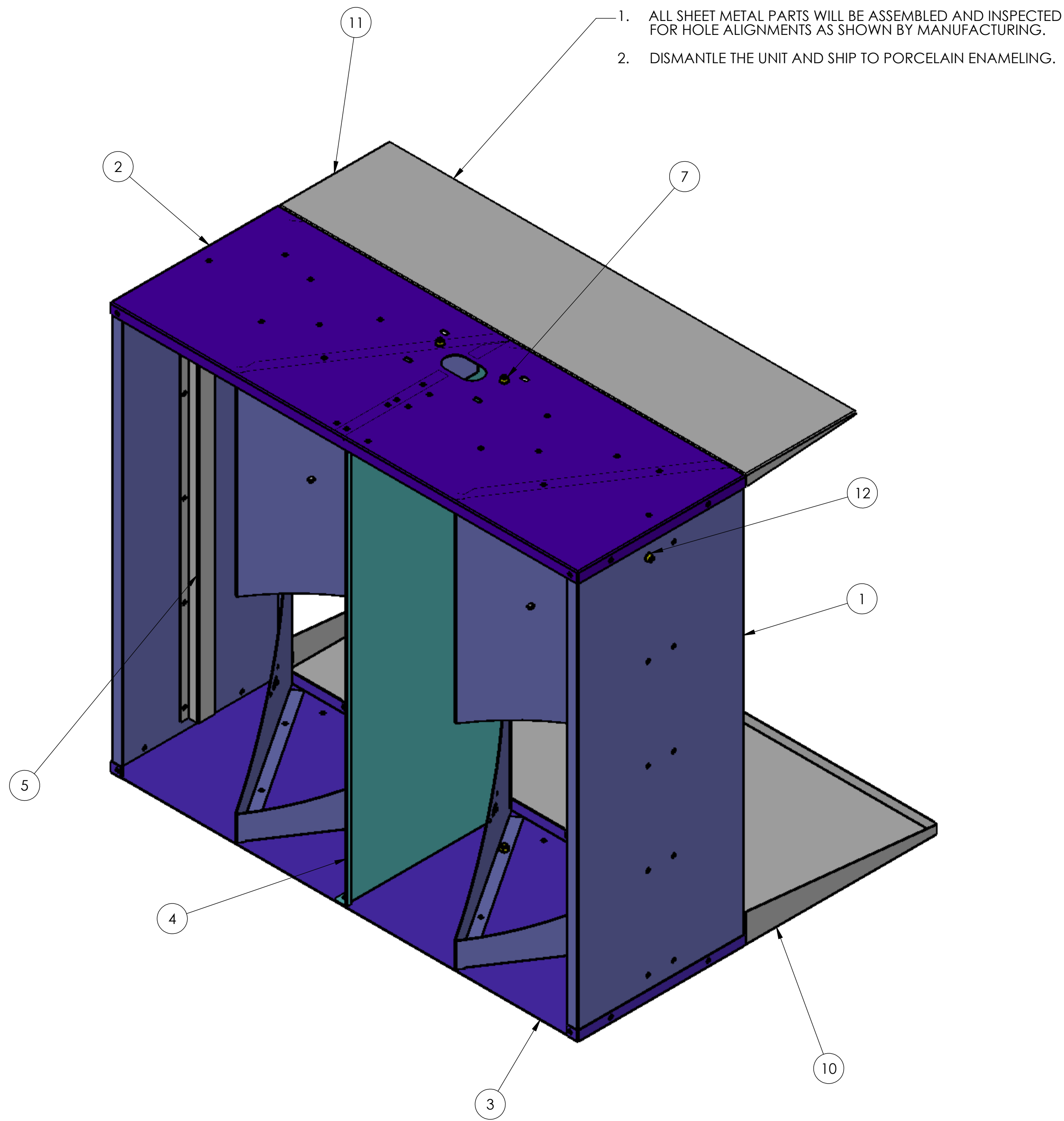
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D:\00973\_Adu\GO\_ACS\_3\AC\_ARM\_Covly\_Bottle\_Sign\_PART\_PDM\_REV\_X-034\_DRAWING\_PDM\_REV\_X-015



NOTES CONTINUED:

REV.	DATE	DCN #	DRAWING TREE #
v1	02 AUG 2010	E1000285	E1000668
-	-	-	-
-	-	-	-



1. ALL SHEET METAL PARTS WILL BE ASSEMBLED AND INSPECTED FOR HOLE ALIGNMENTS AS SHOWN BY MANUFACTURING.
2. DISMANTLE THE UNIT AND SHIP TO PORCELAIN ENAMELING.

15	90313A200	WASHER, FLAT, #10 (NAS 620-C10 McMaster)	18-8 SSSL	30	15	45
14	92210A999	FLAT HD SHCS #10-24 UNDERCUT, McMaster	18-8 S/S	12	6	18
13	D1001365	ARM BAFFLE MIDDLE REINFORCING PLATE	Enamel A424 Type I	2		2
12	90313A204	WASHER, FLAT, 1/4 , McMaster	18-8 SSSL	225	112	337
11	D1001026	ARM CAVITY BAFFLE UP LEAF	Enamel Steel A424 Type I	1		1
10	D1001027	ARM CAVITY BAFFLE LOWER LEAF	Enamel Steel A424 Type I	1		1
9	N-2520-A	HEX NUT, 1/4-20, SILVER PLATE, UC COMP.	18-8 S/S	75	37	112
8	N-1024-A	HEX NUT, #10-24, SILVER PLATE, UC COMP.	18-8 S/S	15	7	22
7	92196A537	SCREW, SOCKET HEAD CAP, 0.25-20 UNC-2A X 0.5 LONG, McMaster	18-8 S/S	75	37	112
6	92210A236	FLAT HD SHCS #10-24 X.25, McMaster	18-8 SSSL	3	2	5
5	D1001363	ACB SIDE REINFORCING HATSECTION	Enamel Steel A424 Type I	2		2
4	D1000976	ARM CAVITY BAFFLE CTR SKIN	Enamel Steel A424 Type I	1		1
3	D1000975	ARM CAVITY BAFFLE BTM SKIN	Enamel Steel A424 Type I	1		1
2	D1000974	ARM CAVITY BAFFLE TOP SKIN	Enamel Steel A424 Type I	1		1
1	D1000973	ARM CAVITY BAFFLE SKIN	Enamel Steel A424 Type I	1		1

**PARTS LIST**

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

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)  
 1. INTERPRET DRAWING PER ASME Y14.5-1994.  
 2. REMOVE ALL SHARP EDGES, R.02 MIN.  
 3. DO NOT SCALE FROM DRAWING.  
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL: BOM  
 FINISH: N/A

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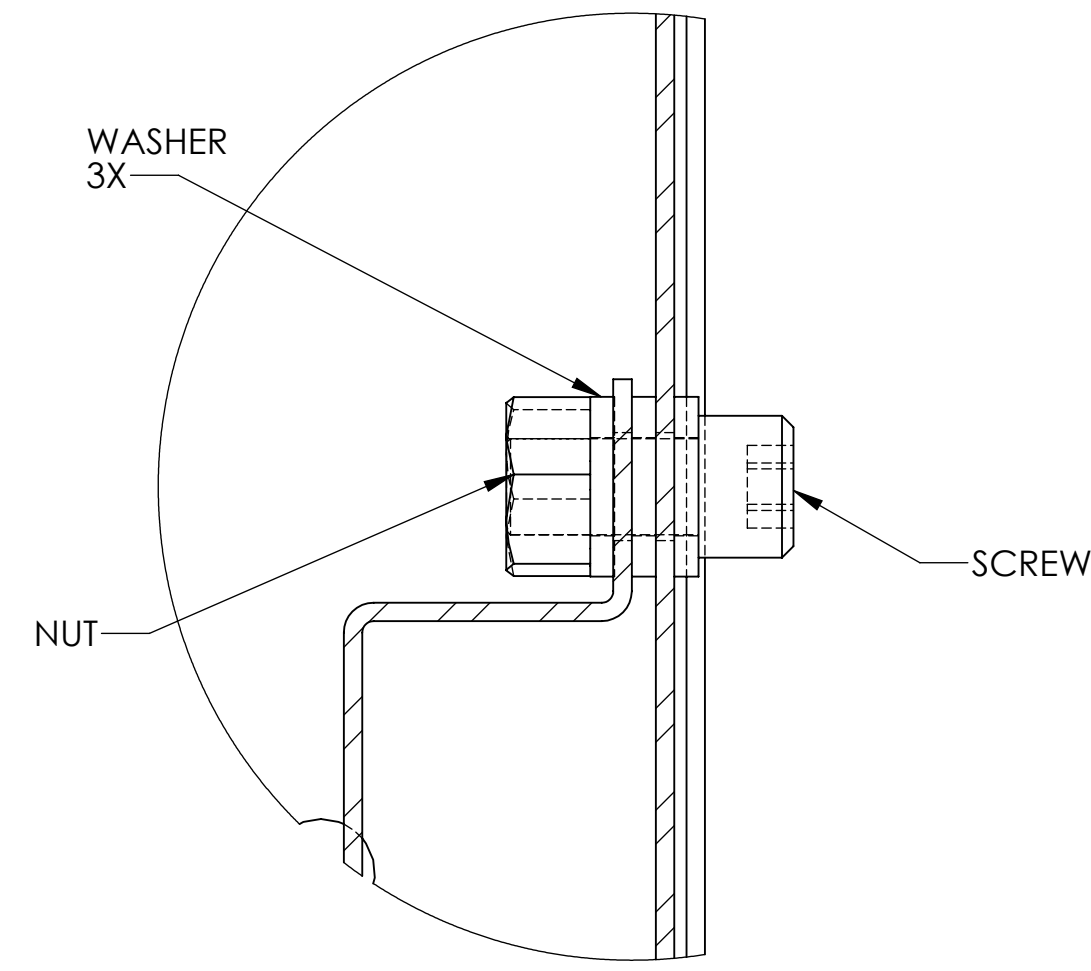
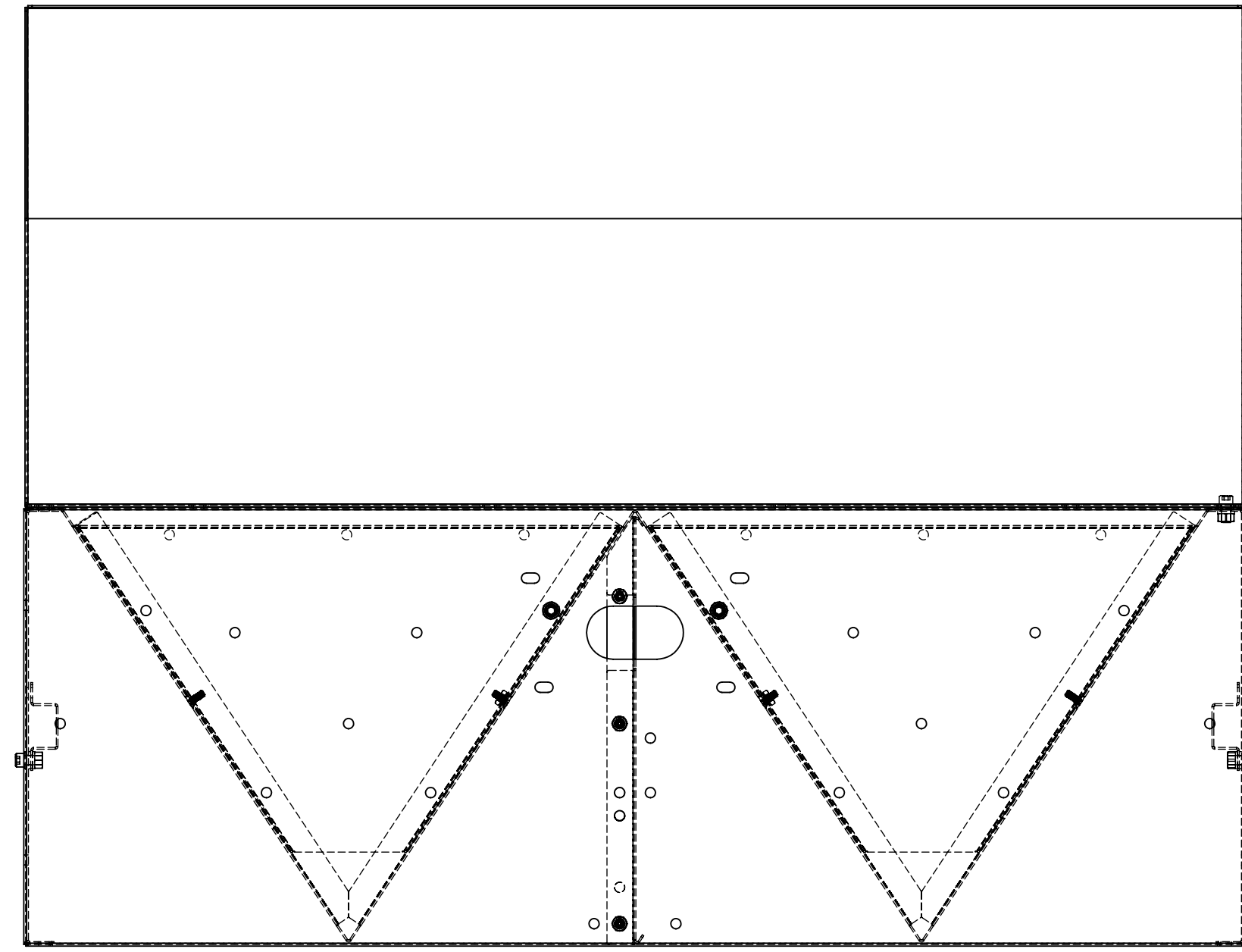
SYSTEM: ADVANCED LIGO  
 SUB-SYSTEM: AOS

NEXT ASSY: D1001011

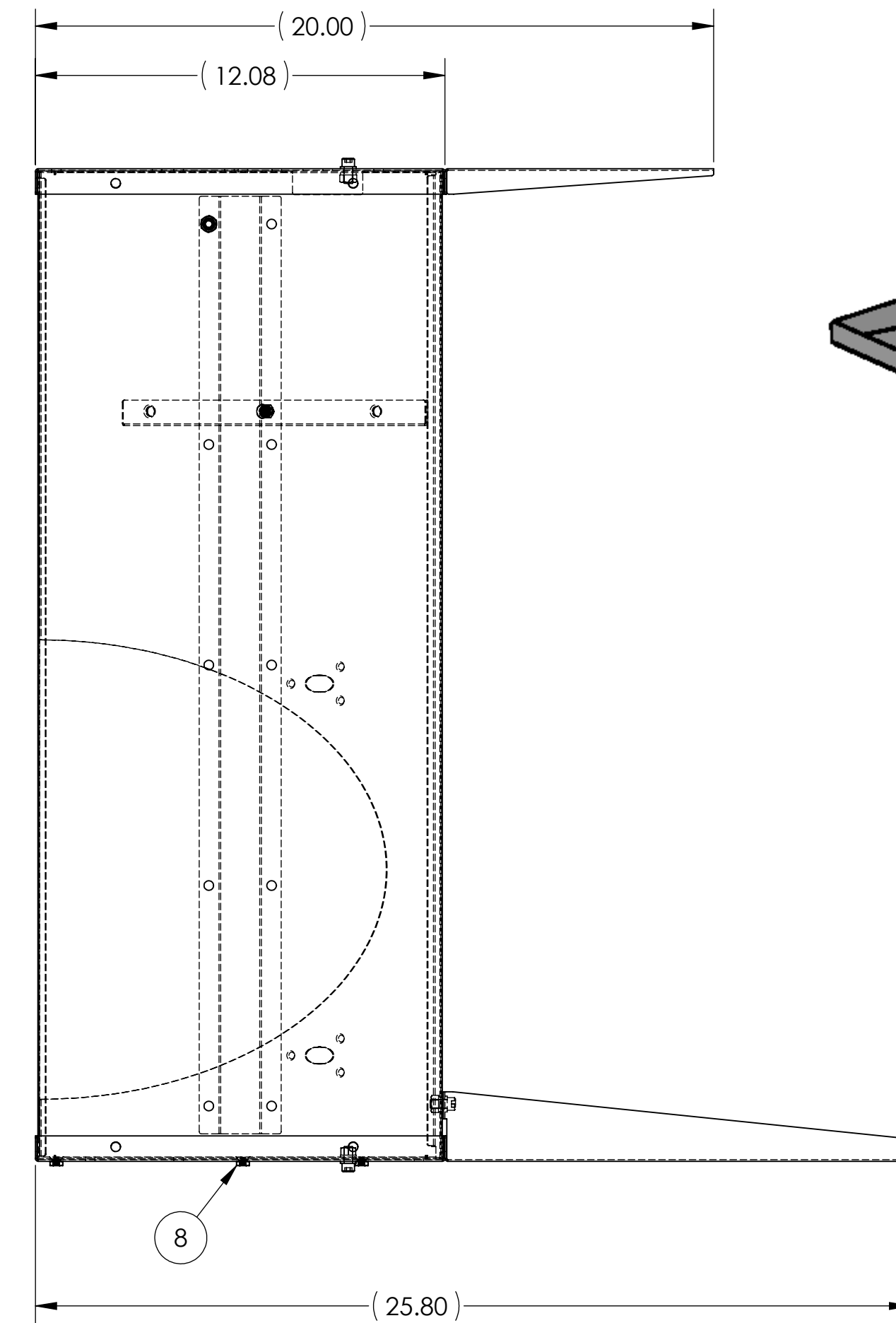
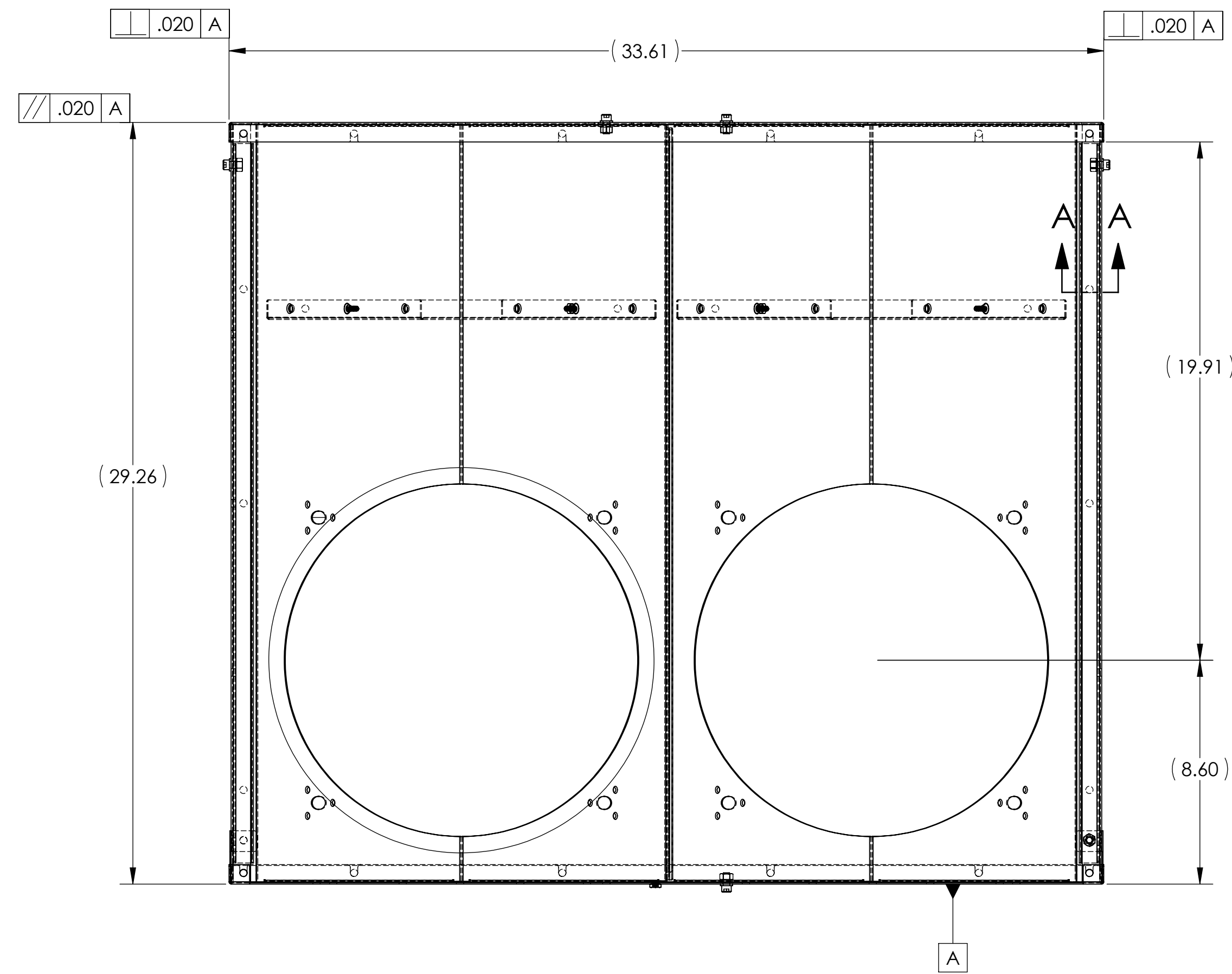
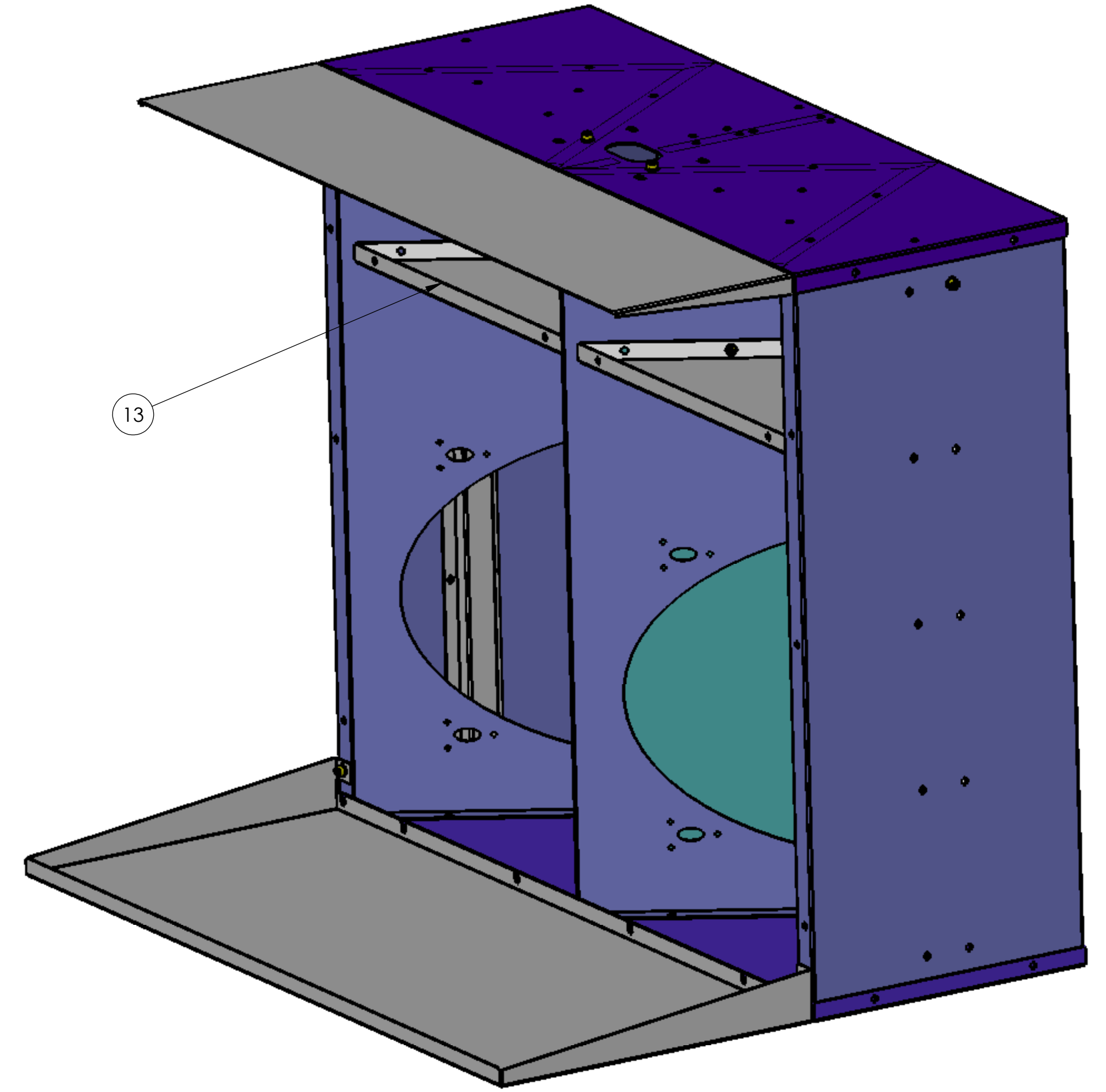
PART NAME: **ARM CAVITY BAFFLE BOX ASSY**

DESIGNER	N.Nguyen	01 Jun 2010	SIZE	DWG. NO.	REV.
DRAFTER	N.Nguyen	01 Jul 2010	D	D1000977	v1
CHECKER	M. Smith	10 NOV 2010			
APPROVAL	D. Coyne	20 NOV 2010	SCALE: 1:1	PROJECTION:	SHEET 1 OF 2

D1000977\_AudiGO\_AOS\_SLC\_ARM Cavity Baffle Box Assy - PART PDM REV: X-009; DRAWING PDM REV: X-014



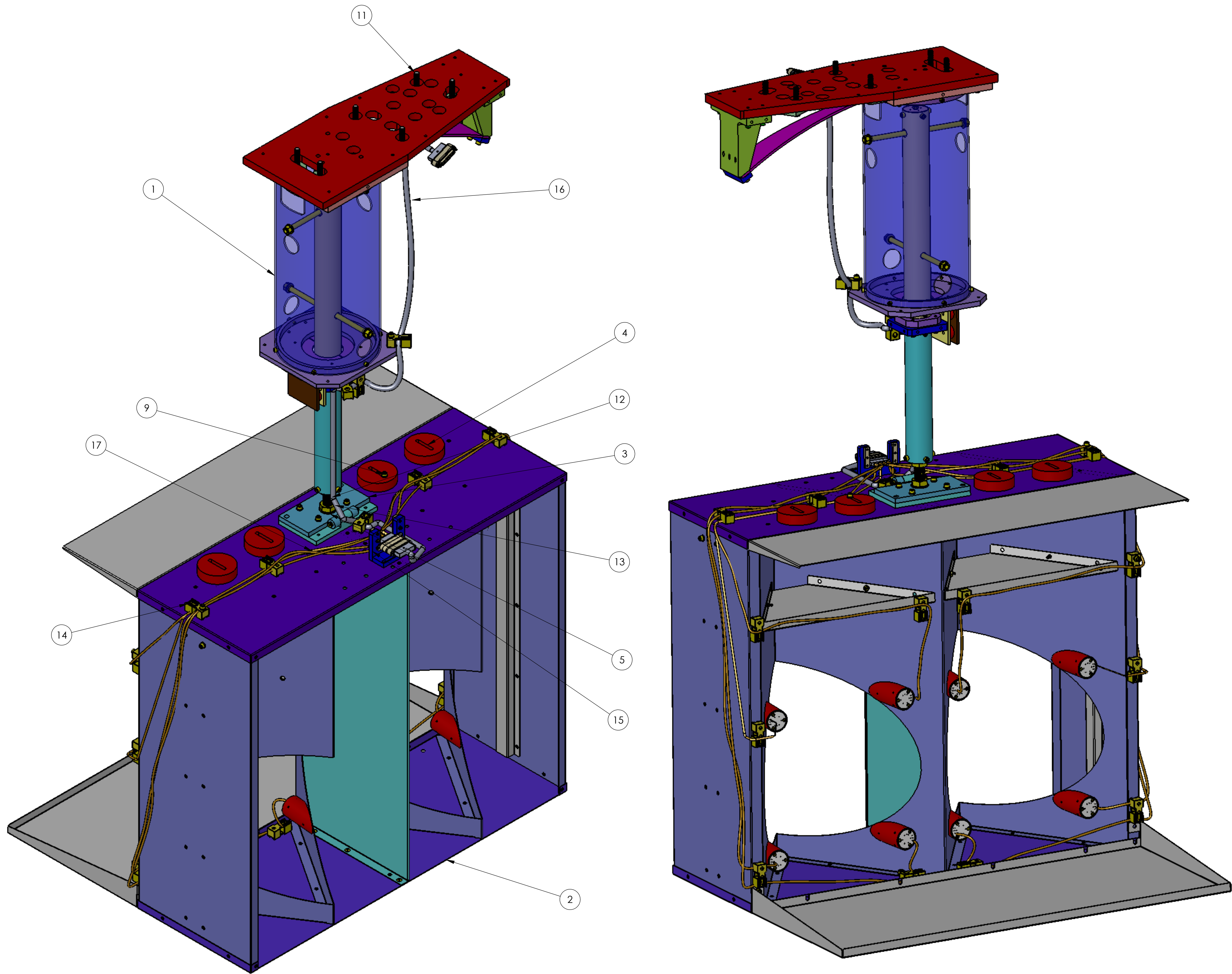
TYPICAL FASTENING DETAIL  
SECTION A-A  
SCALE 2:1



D1000977\_AduLIGO\_ACS\_SLC\_ARM\_Cavity\_Baffle\_Box\_Asly\_PART PDM REV: X-049 DRAWING PDM REV: X-014

NOTES CONTINUED:

REV.	DATE	DCN #	DRAWING TREE #
v1	20 OCT 2010	E1000285	E1000674



CONFIGURATIONS	NEXT SUB-ASSY	CHAMBER	TOP LEVEL
CONFIG BSC10 (SHT 3)	D1002384	BSC1-H1	D0901137
CONFIG BSC10 (SHT 3)	D1002382	BSC3-H1	D0901142
CONFIG DEFAULT (SHT 2)	D1002383	BSC9-H1	D0901150
CONFIG DEFAULT (SHT 2)	D1002277	BSC10-H1	D0901154
CONFIG DEFAULT (SHT 2)	D1001121	BSC7-H2	D0900405
CONFIG DEFAULT (SHT 2)	D1001122	BSC8-H2	D0900360

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
17	D1003111	SLC PHOTODETECTOR CABLE LOWER ASSY	N/A	1		1
16	D1003117	SLC PHOTODETECTOR CABLE UPPER ASSY	N/A	1		1
15	D1001346	gLIGO, HAM2-H1, ASSEMBLY, CABLE MOUNT	N/A	1		1
14	D0900004	UHV COMPATIBLE CABLE CLAMP	PEEK	30	4	34
13	N-7510-A	HEX NUT # 3/4-10, UC COMP	Ag 18-8 SSSL	2	1	3
12	D1001186	SCREW #3/4-10 X 4 MODIFIED	18-8 SSSL	1	1	2
11	92240A632	HEX HD SCREW # 3/8-16X 2, McMASTER	18-8 SSSL	6	2	8
10	N-2520-A	HEX NUT, 1/4-20, UC COMP	Ag 18-8 SSSL	19	10	29
9	921196A544	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1.25 LONG, McMASTER	18-8 SSSL	19	9	28
8	90313A203	WASHER, FLAT, 1/4, McMASTER	18-8 SSSL	38	10	48
7	93852A104	WASHER #3/8, McMASTER	18-8 SSSL	6	2	8
6	D1001700	SLC INTERFACE MOUNTING CLAMP	304 SSSL	6		6
5	98017A220	WASHER #3/4, McMASTER	300 SSSL	2	1	3
4	D1001826	SLC ACB BALANCING WEIGHT	304 SSSL	4		4
3	D1002173	ARM CAVITY BAFFLE HINGE ASSY	N/A	1		1
2	D1000977	ARM CAVITY BAFFLE BOX ASSY	N/A	1		1
1	D1001011	ARM CAVITY BAFFLE ASSY	N/A	1		1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

- INTERPRET DRAWING PER ASME Y14.5-1994.
- REMOVE ALL SHARP EDGES, R.02 MIN.
- DO NOT SCALE FROM DRAWING.
- ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

DIMENSIONS ARE IN INCHES

TOLERANCES:  
 .XX ±  
 .XXX ±

ANGULAR ± °

MATERIAL: N/A

FINISH: N/A

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 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO

SUB-SYSTEM: AOS

NEXT ASSY: SEE CHART

**PART NAME**  
 ARM CAVITY BAFFLE FINAL ASSY

DESIGNER	N.Nguyen	10 AUG 2010	SIZE	DWG. NO.	REV.
DRAFTER	TG. NGUYEN	20 OCT 2010	D	D0901376	v1
CHECKER	M. SMITH	10 NOV 2010	SCALE: 1:8	PROJECTION:	SHEET 1 OF 3
APPROVAL	D. COYNE	20 NOV 2010			

D0901376\_A01.LIGO\_AOS\_SLC\_ARM\_Cavity\_Baffle\_Final\_Assy\_PART.PDM.REV.K-080\_DRAWING.PDM.REV.X019

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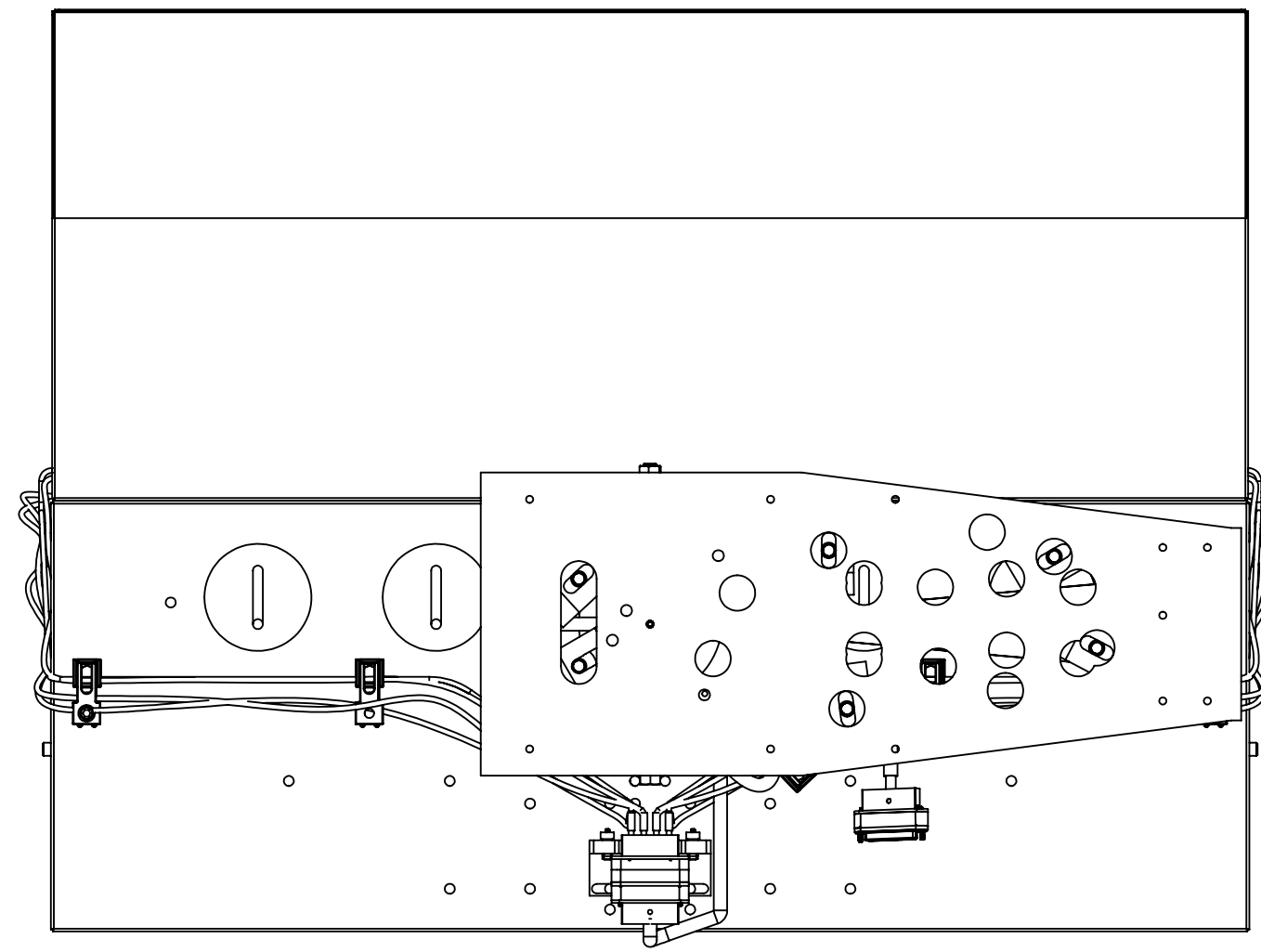
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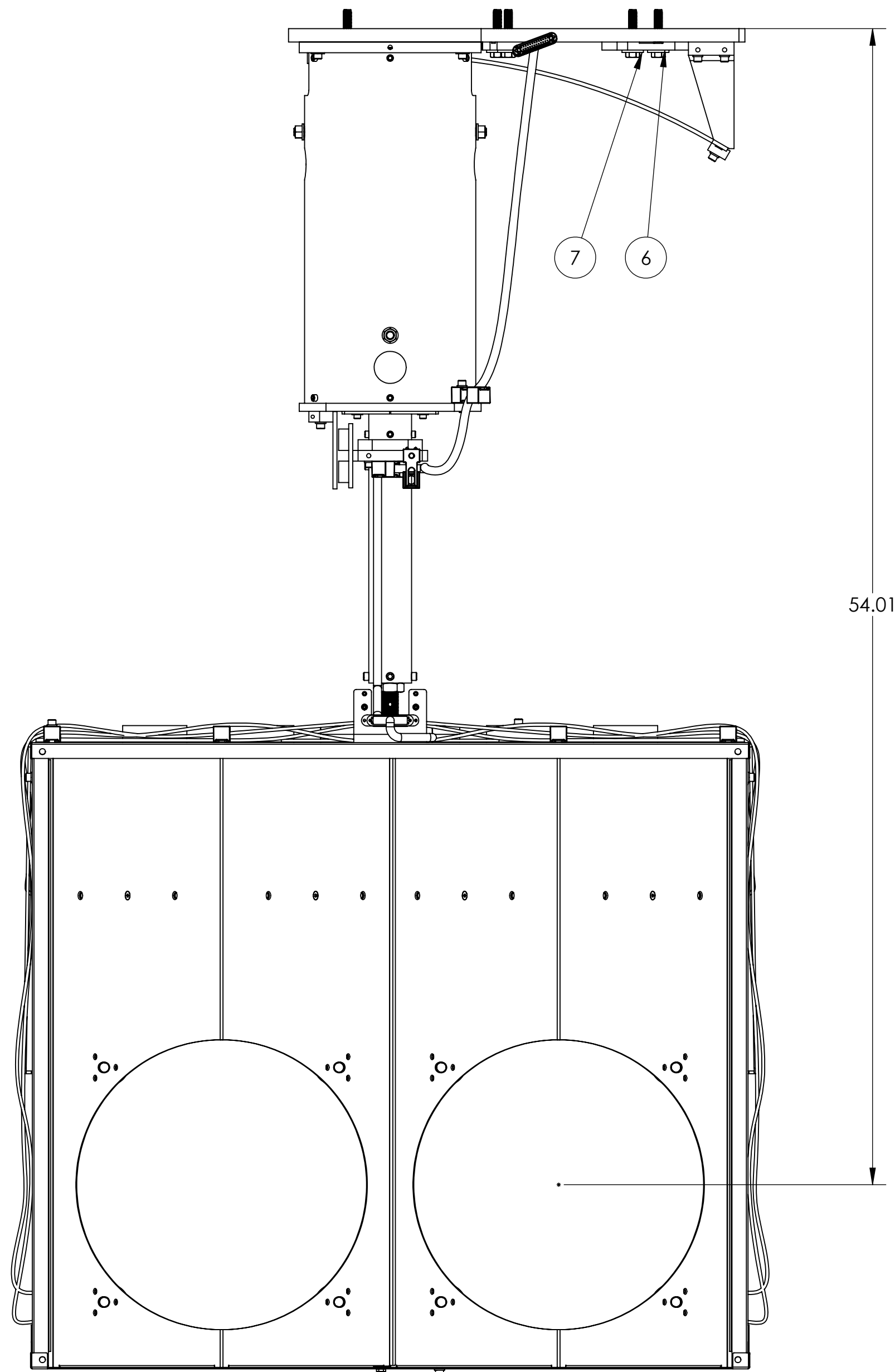
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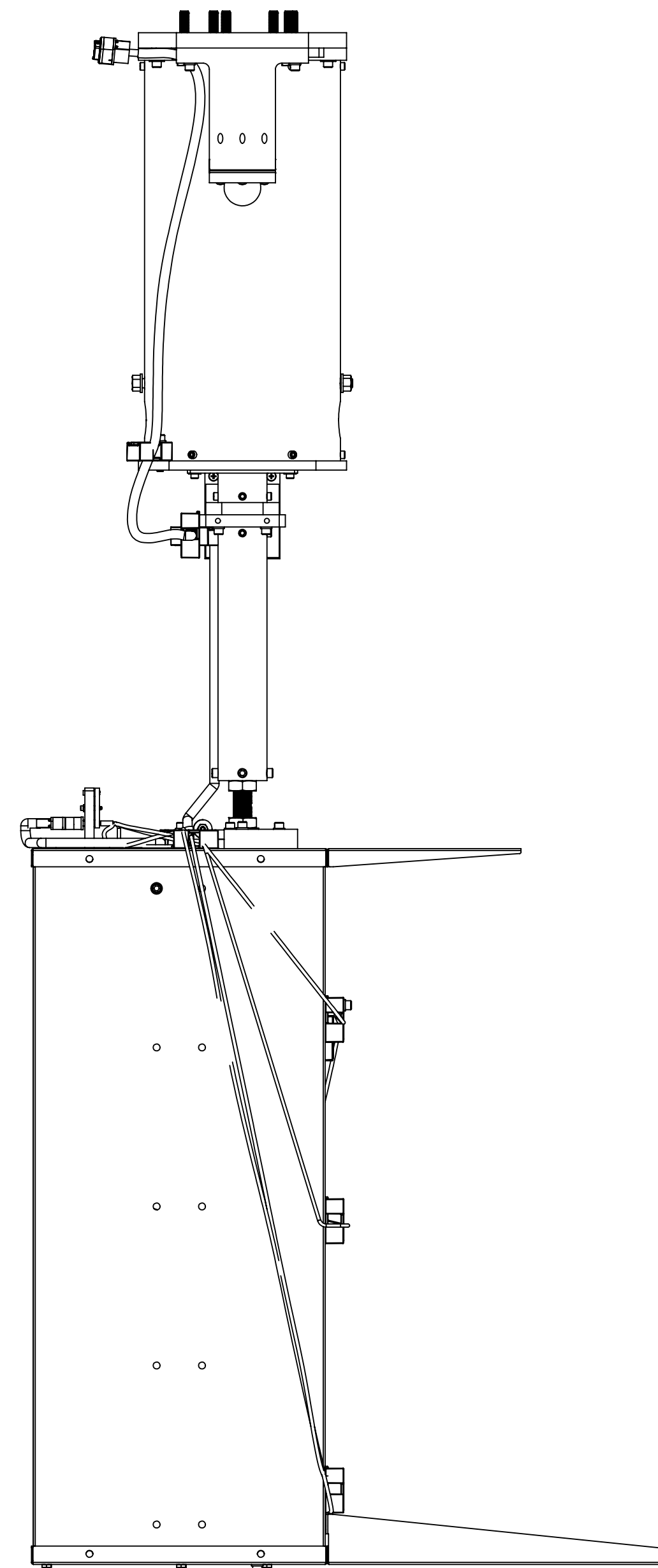
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**CONFIGURATION  
(DEFAULT)**



54.01



		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE	DWG. NO.	REV.	
D	D0901376	v1	
SCALE: 1:5	PROJECTION:	SHEET 2 OF 3	

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DD901376\_AduIGO\_AOS\_SLC\_ARM\_Cavity\_Bottle\_Final\_Assy\_PART\_PDM\_REV\_K-080\_DRAWING\_PDM\_REV\_X-019

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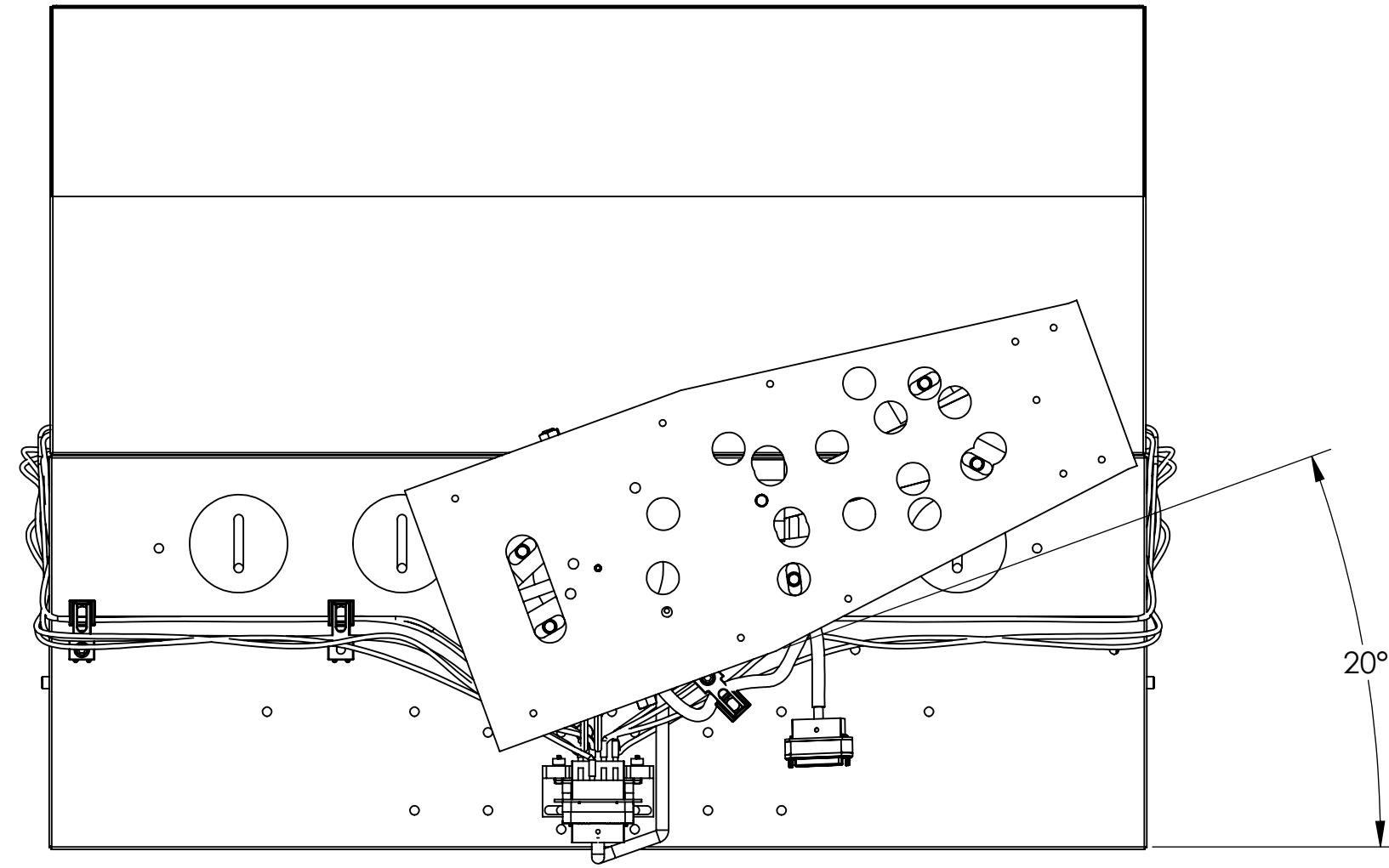
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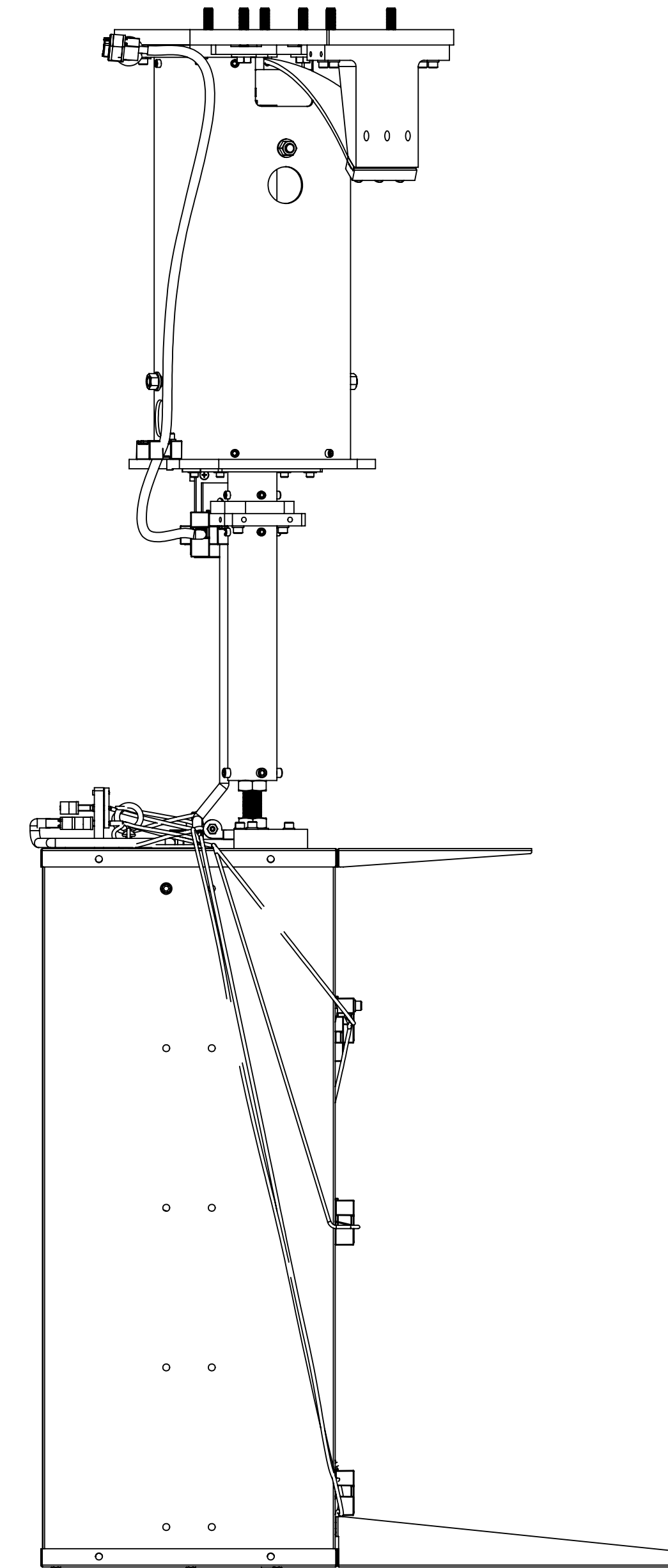
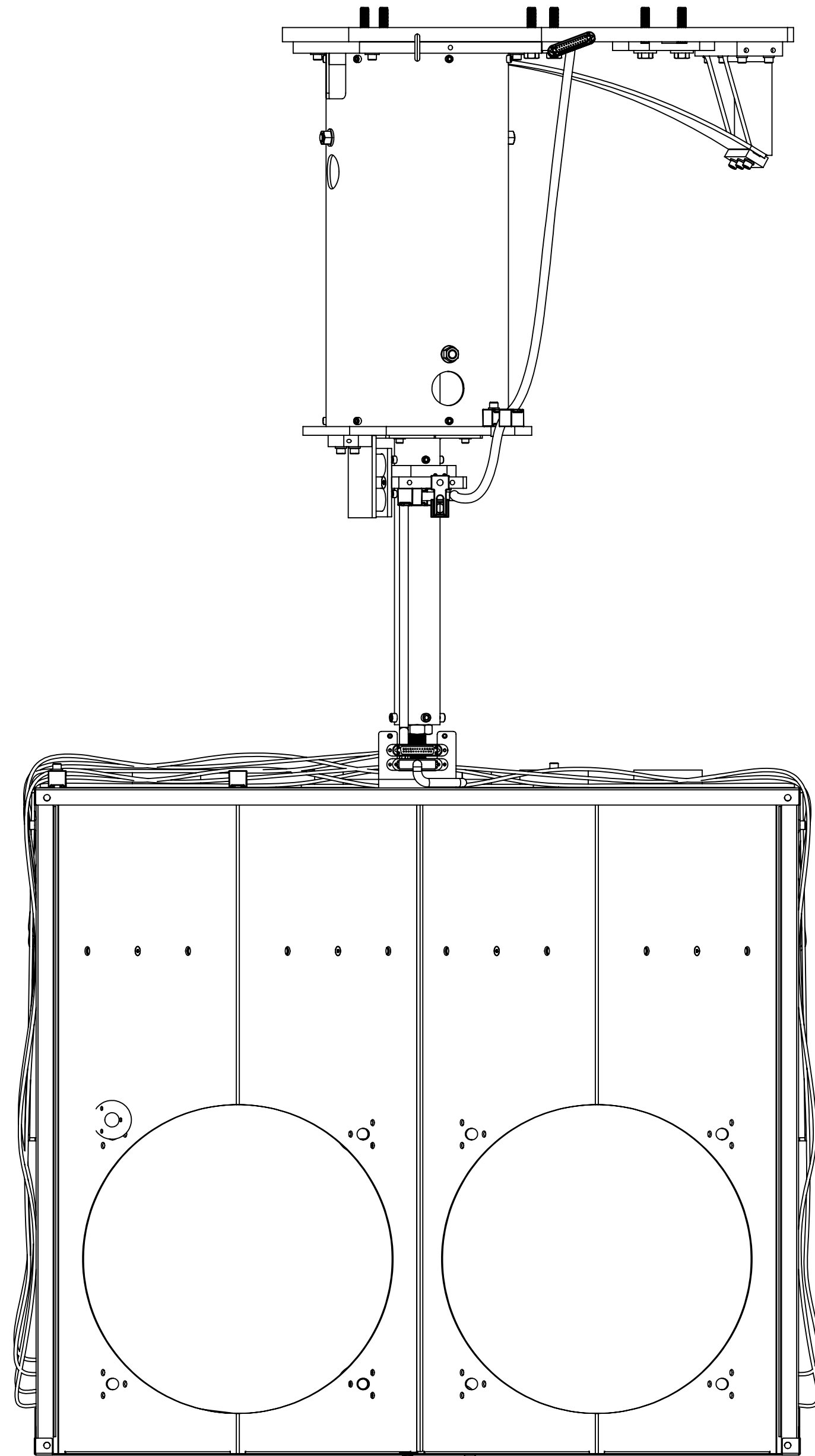
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**CONFIGURATION  
(BSC 10)**



<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
<b>D</b> <b>D0901376</b>	<b>v1</b>
SCALE: 1:5	PROJECTION:  SHEET 3 OF 3

DD901376\_AduIGO\_AOS\_SLC\_ARM\_Covily\_Bottle\_Fiber\_Assy\_PART\_PDM\_REV\_K-080\_DRAWING\_PDM\_REV\_X-019