



CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DRWG NO. REV GID
E1000672-v3.5

SHEET 1 OF 2

ASSEMBLY NO:

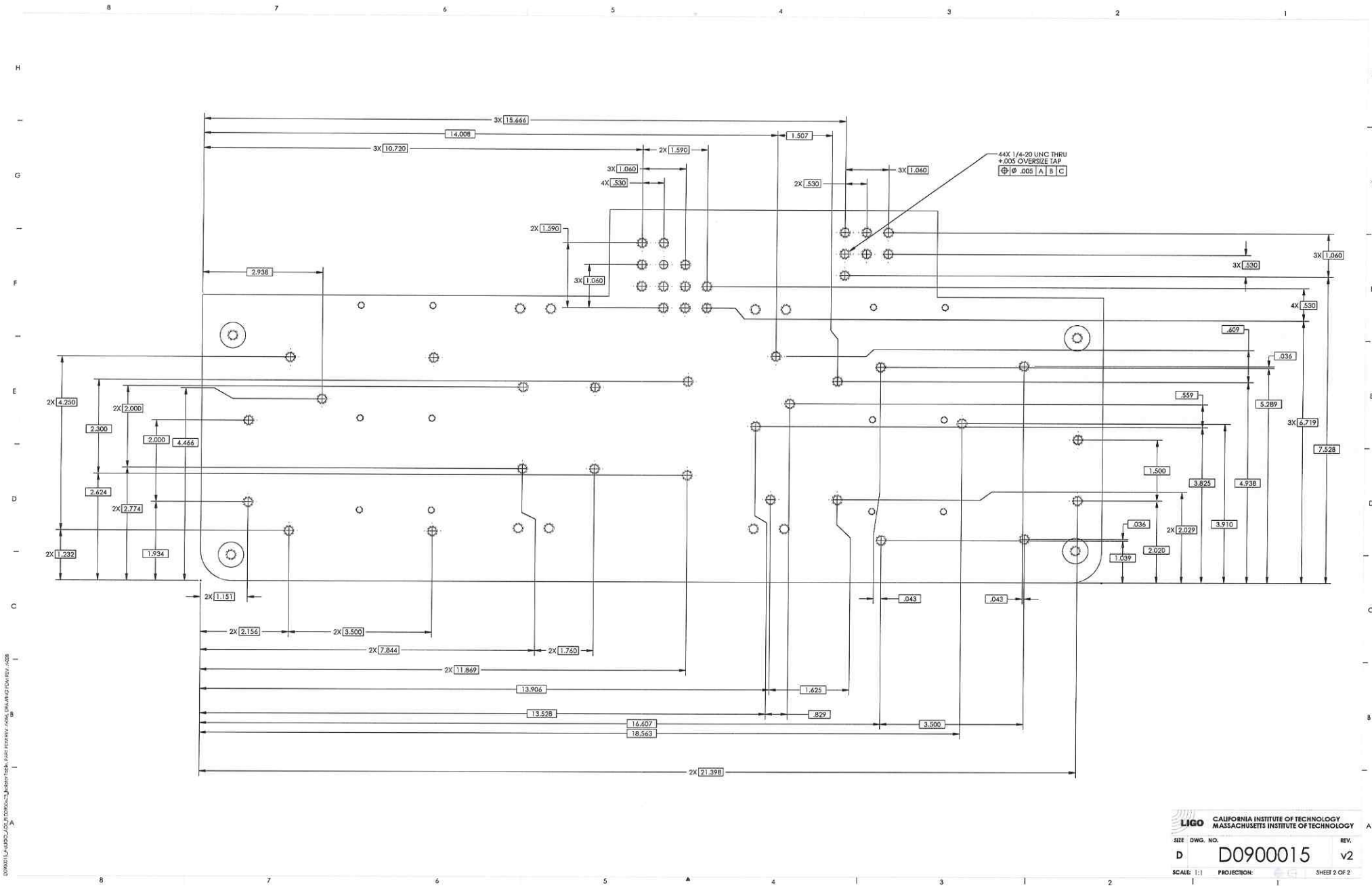
D0900136

OVERALL BILL OF MATERIALS

TITLE:

OUTPUT FARADAY ISOLATOR, METAL MECHANICAL PARTS & QUANTITIES

38	1		1	D1001962	V2.1	Output Alignment Fixture Support	6061-T6 Al
39	1		1	D1002112	V2.1	Magnetic Plate Mount Back (Lowered) Bracket	6061-T6 Al
40	2		2	D1002168	V2.1	Music Wire Split Clamp 3	304, 316 or 302 SSSL
41	2		2	D1002169	V1	Music Wire Split Clamp 4	304, 316 or 302 SSSL
42	1		1	D1002257	V2.1	Crossbar Plate In	6061-T6 Al
43	2		2	D1002362	V2.2	Faraday Isolator Beam Dump Mount	6061-T6 Al
44	2		2	D1002533	V1	Output Faraday Isolator Dummy Weight	304, 316 or 302 SSSL
45	2		2	D1002540	V1	Output Faraday Isolator Dummy Weight (Rotate)	304, 316 or 302 SSSL
46	4		4	D1002542	V2.1	Table Balance Weight .75#	304, 316 or 302 SSSL
47	12	2	14	D1100027	V1	Clip	304 SSSL



D0900026_A-LIGO_AOS_FI D0900048_Magnet Mounting Plate, PART PDM REV: X-024, DRAWING PDM REV: X-017

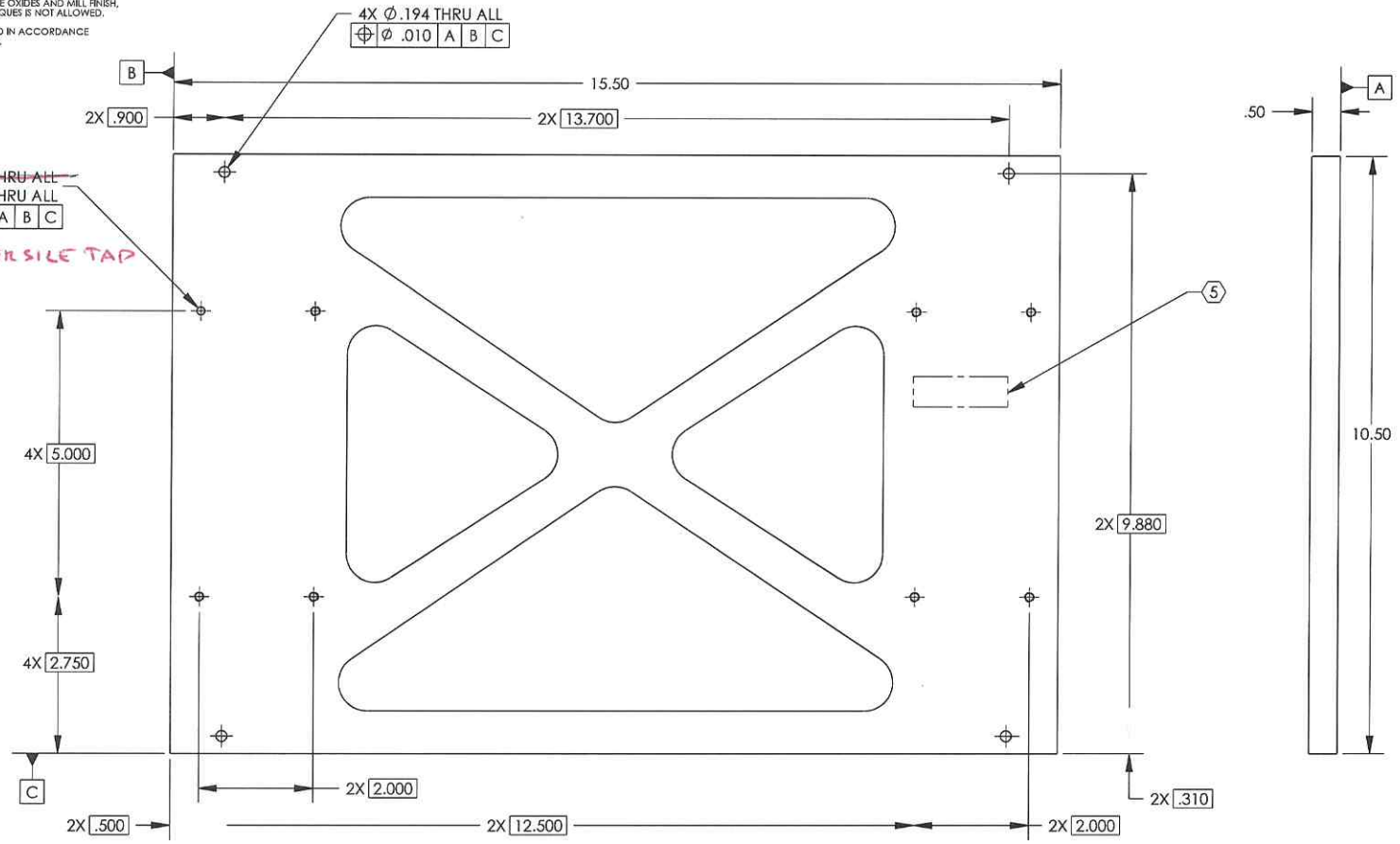
NOTES CONTINUED:

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. EXAMPLES: DXXXXXXXV1, 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	28 JUL 2009	E0900217	
V2	07 OCT 2010	E1000563	



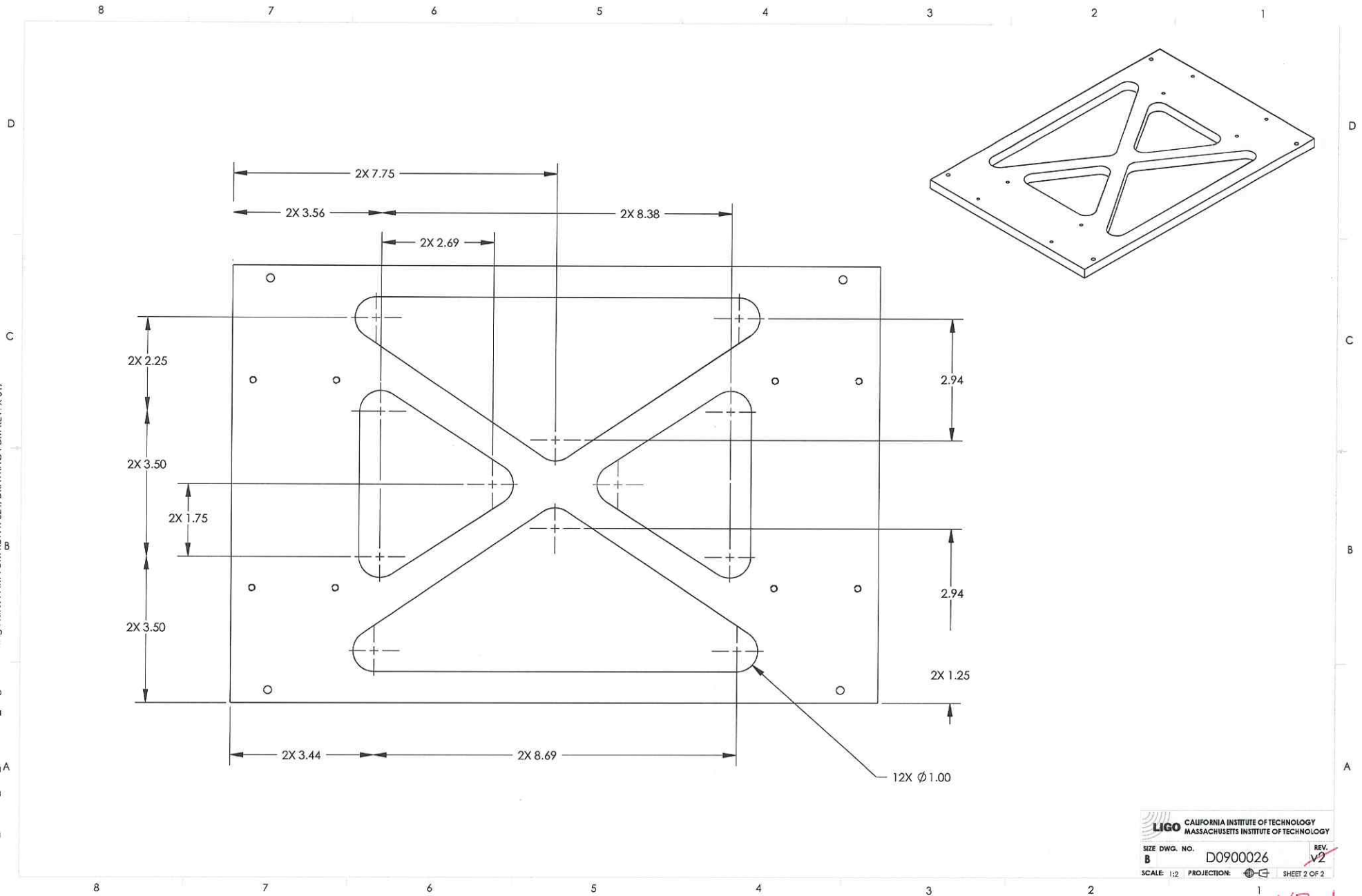
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN	1. INTERPRET DRAWING PER ASME Y14.5-1994.
TOLERANCES:	2. REMOVE ALL SHARP EDGES, R.02 MIN.
.XX ± .02	3. DO NOT SCALE FROM DRAWING.
.XXX ± .010	4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR,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

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	PART NAME
SYSTEM ADVANCED LIGO	MAGNET MOUNTING PLATE
SUB-SYSTEM AOS	DESIGNER
NEXT ASSY D0900048	N Nguyen

DRAPFER	DATE	SIZE	DWG. NO.	REV.
K. Moiland	22 Jul 2009	B	D0900026	v2
CHECKER	DATE	SCALE	PROJECTION	
C. Torrie	28 Jul 2009	1:2		
APPROVAL				SHEET 1 OF 2

v3.1
LCA
1/26/11

D0900026_A.ctbLIGO_AOS_FI D0900048_Magnet Mounting Plate. PART PDM REV: X-024. DRAWING PDM REV: X-017



LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE	DWG. NO.	REV.
B	D0900026	v2
SCALE	PROJECTION	SHEET 2 OF 2
1:2		

V3.1
LCA
1/26/11

D0900168_AdLIGO_AOS_D0900170_Crossbar Plate, PART FDM REV: X-011, DRAWING FDM REV: X-015

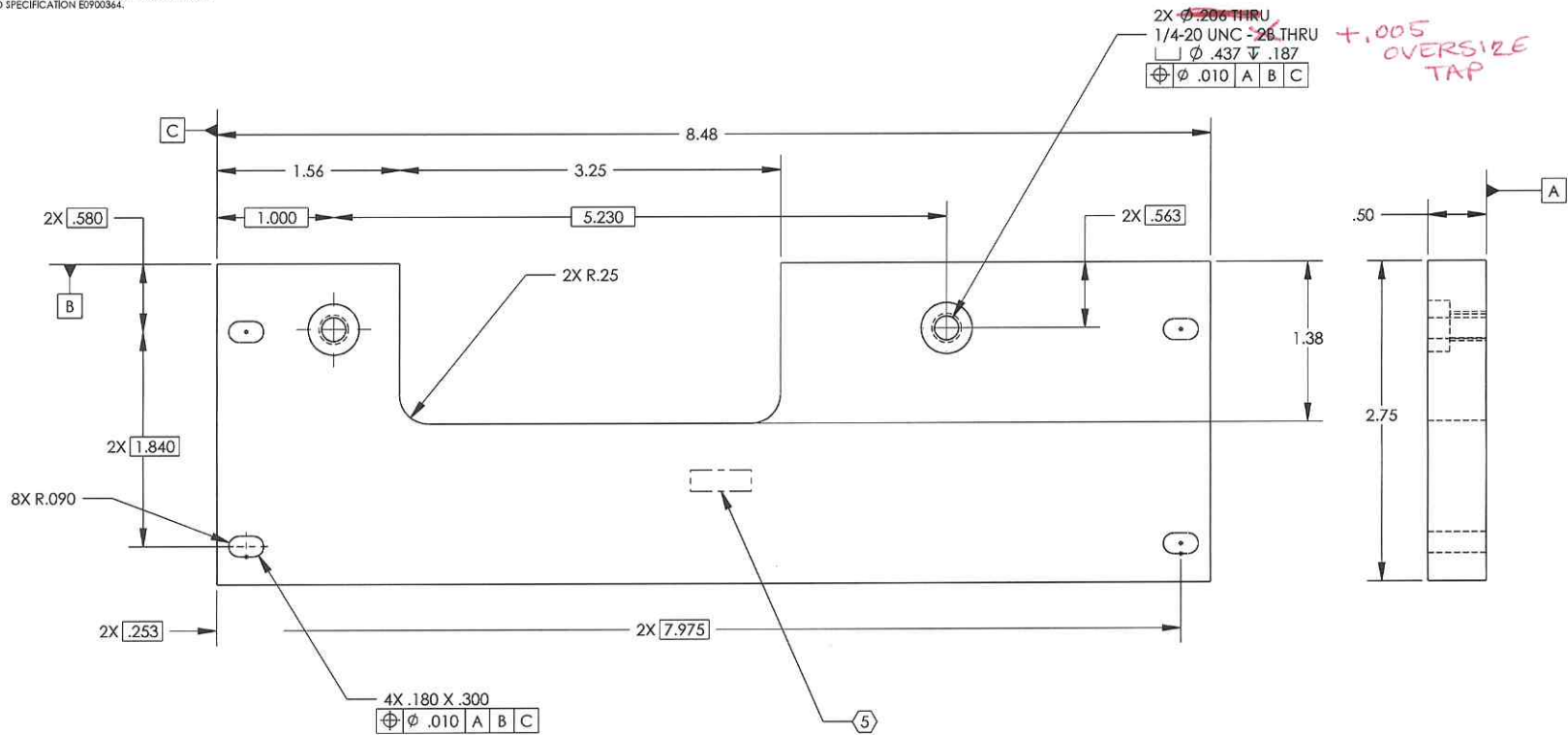
NOTES CONTINUED:

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: DXXXXXXVY, TYPE-X, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE SWISS 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	01 JUL 2009		
v2	07 OCT 2010	E1000563	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN

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 SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410.

MATERIAL

6061-T6 Al

FINISH

63 µinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS

NEXT ASSY

D0900170

PART NAME

CROSSBAR PLATE

DESIGNER

N. Nguyen 26 May 2009

DRAFTER

M. Smith 01 Jul 2009

CHECKER

C. Torrie 01 Jul 2009

APPROVAL

SIZE DWG. NO.

B

D0900168

SCALE: 1:1 PROJECTION:

REV.

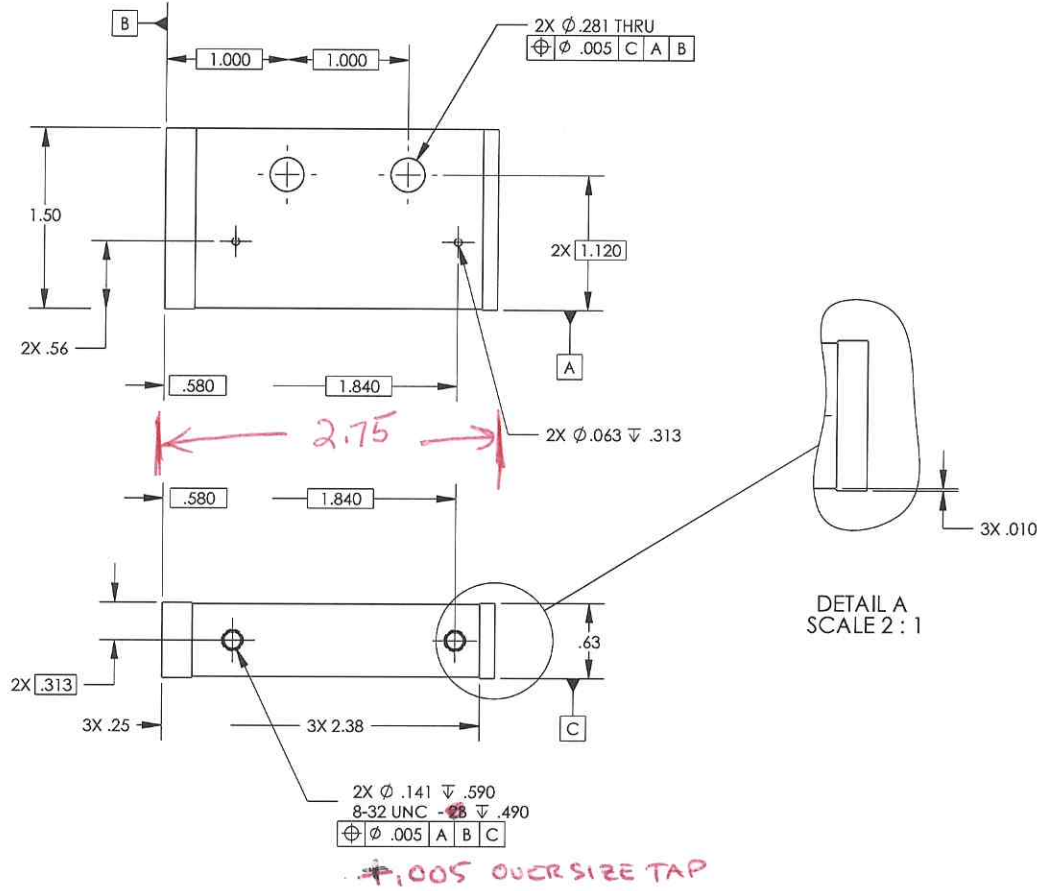
v2

V3-1
LCA
1/26/10

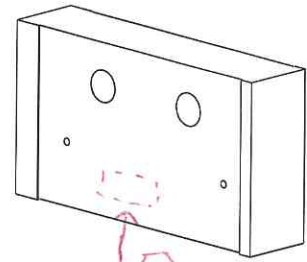
D0900169_AdlIGO_AOS_D0900170_Crossbar Side, PA RT FDM REV: X-01.4, DRAWING PDM REV: X-012

NOTES CONTINUED:

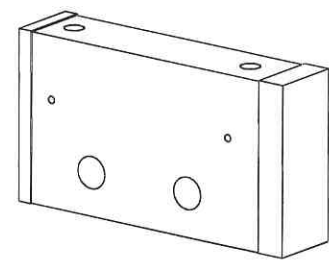
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS. UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS, A VIBRATORY TOOL MAY BE USED.
- 6. REMOVE BURRS, PROTECT SURFACES FROM OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
- 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0700364.



REV.	DATE	DCN #	DRAWING TREE #
v1	01 JUL 2009		
v2	07 OCT 2010	EI000543	



DETAIL A SCALE 2:1



DIMENSIONS ARE IN		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
TOLERANCES:		1. INTERPRET DRAWING PER ASME Y14.5-1994.		ADVANCED LIGO		CROSSBAR SIDE	
.XX ± .02		2. REMOVE ALL SHARP EDGES, R.02 MIN.		AOS		SIZE DWG. NO. D0900169	
.XXX ± .010		3. DO NOT SCALE FROM DRAWING.		NEXT ASSY D0900170 & D1002256		SCALE: 1:1	
ANGULAR ± *		4. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410.		MATERIAL 6061-T6 Al		FINISH 63 μinch	
						DESIGNER H.Nguyen	
						DRAFTER M.SMITH	
						CHECKER C.TORRIS	
						APPROVAL	
						DATE 26 MAY 2009	
						01 JUL 2009	
						07 JUL 2009	
						SHEET 1 OF 1	

V3.1
LEA
4/24/11

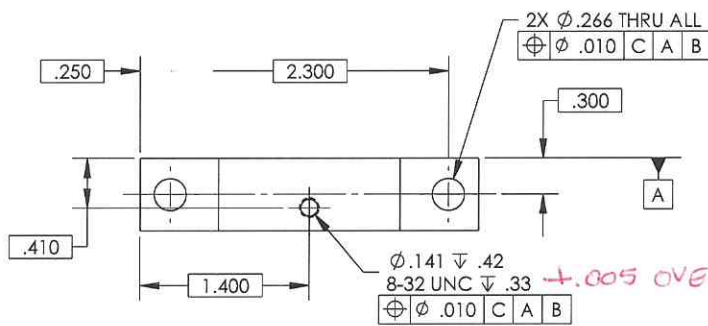
D0900352_A.dLIGO-AOS_D0900353_Half Wave Plate Holder. PART PDM REV: X-010. DRAWING PDM REV: X-007

NOTES CONTINUED:

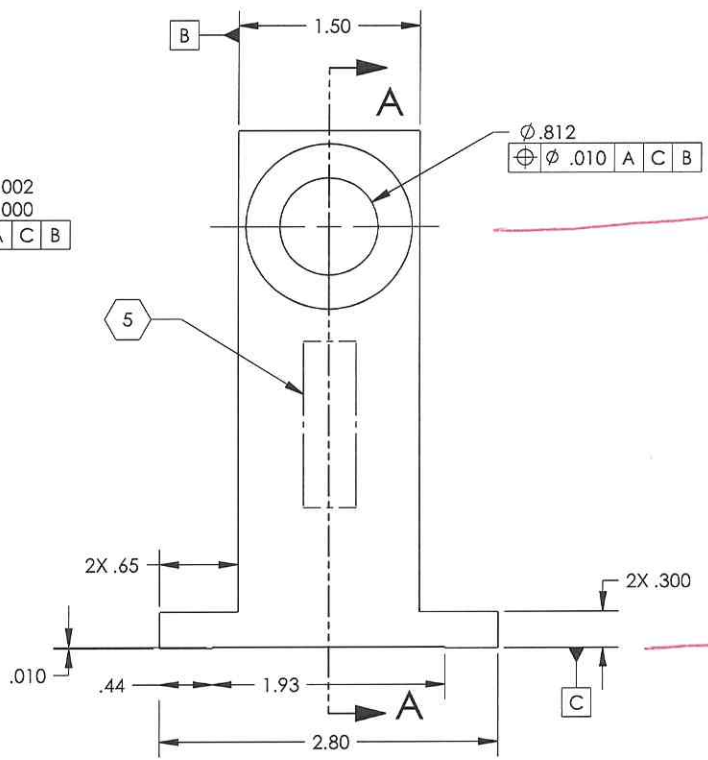
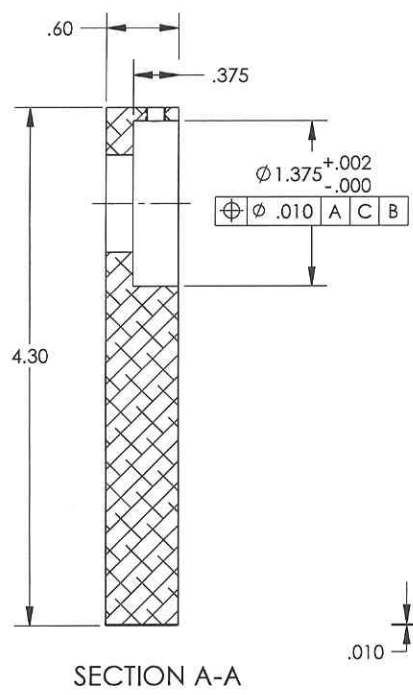
⑤ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12"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

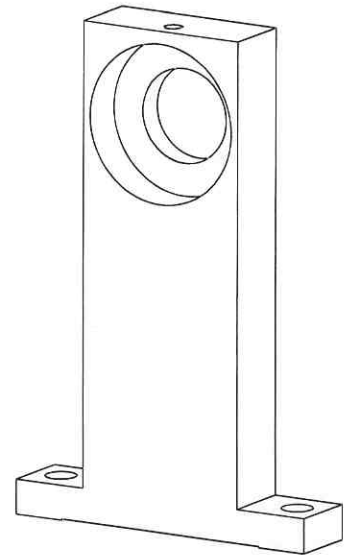
REV.	DATE	DCN #	DRAWING TREE #
V1	08 OCT 2010	E1000563	
V2	07 JAN 2011	E1000563	



+0.005 OVERSIZE TAP



3.500



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
TOLERANCES: XX ± .02 XXX ± .010		DESIGNER N.Nguyen		DATE 09 FEB 2010	
ANGULAR ± 0.6°		CHECKER		SIZE B	
MATERIAL 6061-T6 Al		FINISH 63 µinch		DWG. NO. D0900352	
NEXT ASSY D0900353		APPROVAL		REV. V2	
		SCALE: 1:1		PROJECTION:	
				SHEET 1 OF 1	

*V3.2
LCA
2/22/11*

*V3.T
LCA
1/26/11*

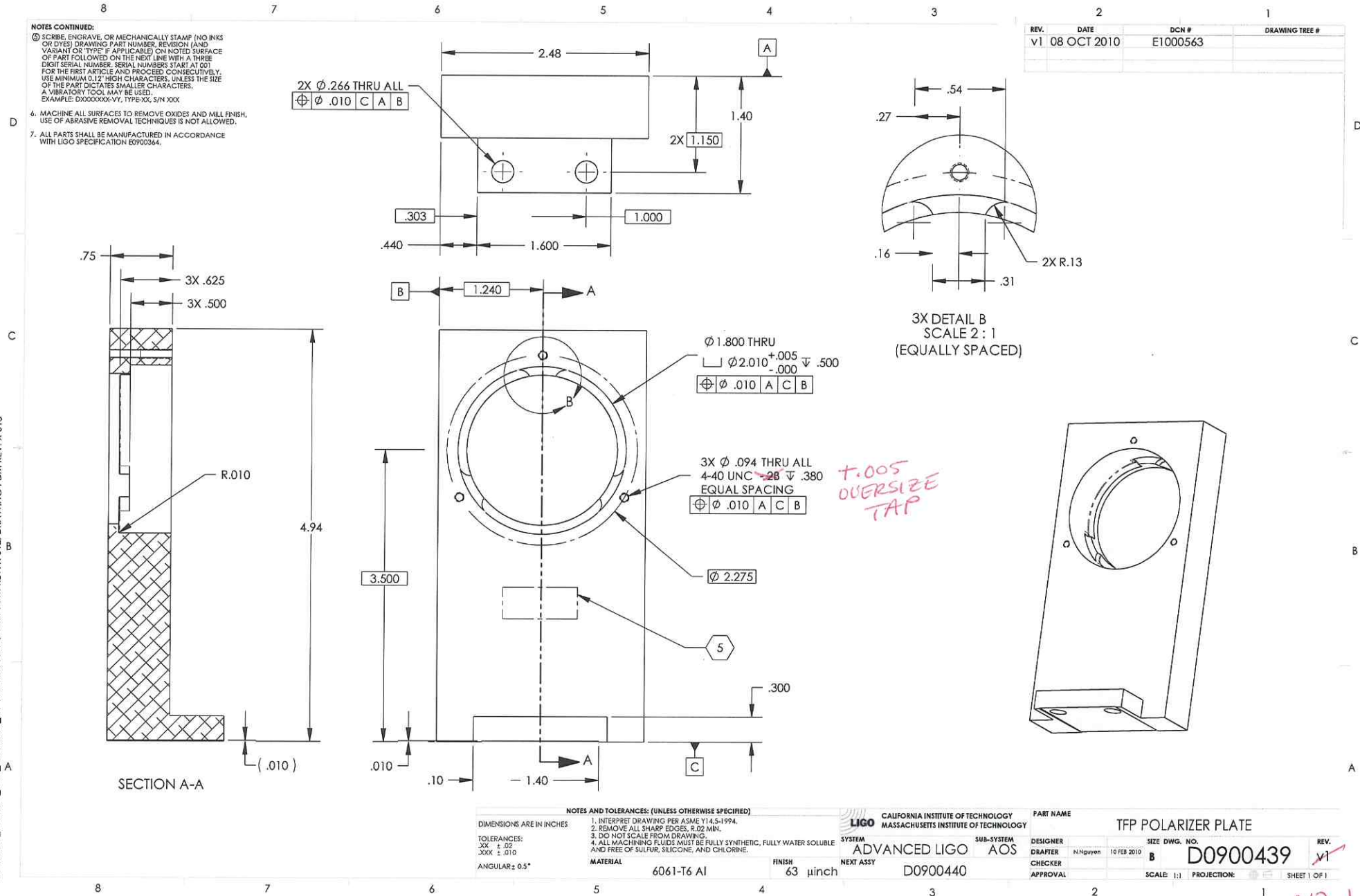
D0900439_A_dtlLIGO_AOS_D0900440_TFP Polarizer Plate, PART PDM REV: X-012, DRAWING PDM REV: X-018

NOTES CONTINUED:

⊗ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE 'F' 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 XXXX

4. 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	08 OCT 2010	E1000563	

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

- DIMENSIONS ARE IN INCHES
- 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.
- TOLERANCES:
 .XX ± .02
 .XXX ± .010
 ANGULAR ± 0.5°
- MATERIAL: 6061-T6 Al
 FINISH: 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO
 SUB-SYSTEM: AOS
 NEXT ASSY: D0900440

PART NAME		SIZE DWG. NO.		REV.
TFP POLARIZER PLATE		B D0900439		V1
DESIGNER	CHECKER	DATE	SCALE	PROJECTION
N.Nguyen		10 FEB 2010	1:1	AS
SHEET 1 OF 1				

V2.1
 LCA
 1/26/11

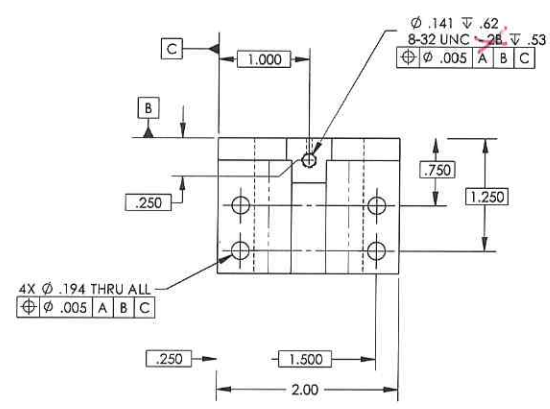
NOTES CONTINUED:

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

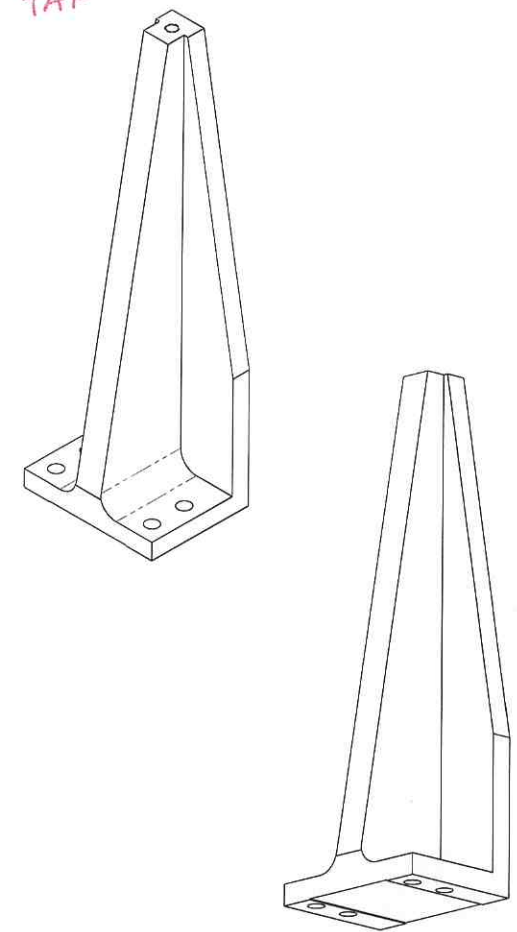
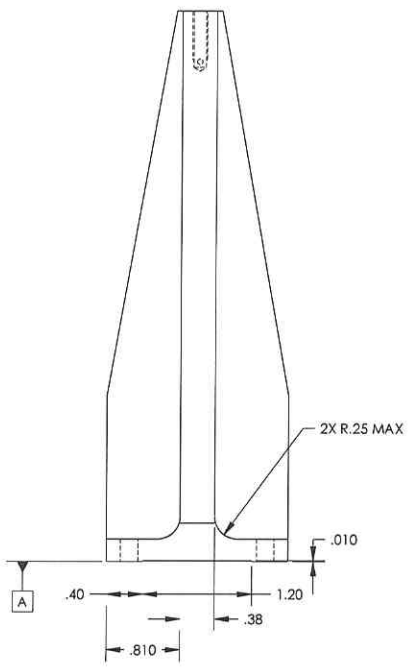
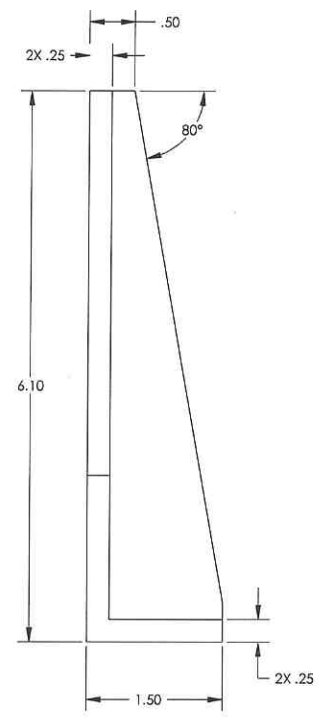
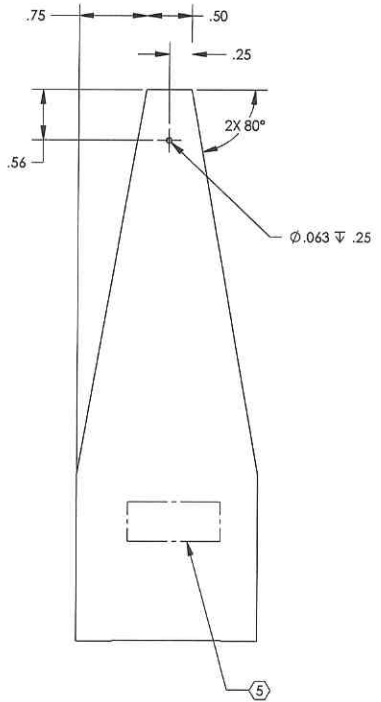
6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.

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

REV.	DATE	DCN #	DRAWING TREE #
v1	21 JUL 2009	E0900209	-
v2	07 OCT 2010	E1000563	-
-	-	-	-



T.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 SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410.

MATERIAL: 6061-T6 Al
FINISH: #3 pinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO
SUB-SYSTEM: AOS
NEXT ASSY: D0900579

PART NAME: BLADE GUARD RISER

DESIGNER	SIZE	DWG. NO.	REV.
DRAFTER: N.Nguyen	c	D0900578	v2
CHECKER: K. MAILAND	SCALE: 1:1	PROJECTION:	SHEET 1 OF 1
APPROVAL: C. TORRE			

DIMENSIONS ARE IN INCHES
TOLERANCES:
.XX ± .01
.XXX ± .005
ANGULAR ± 0.5°

v2 v3.1
LCA
1/26/11

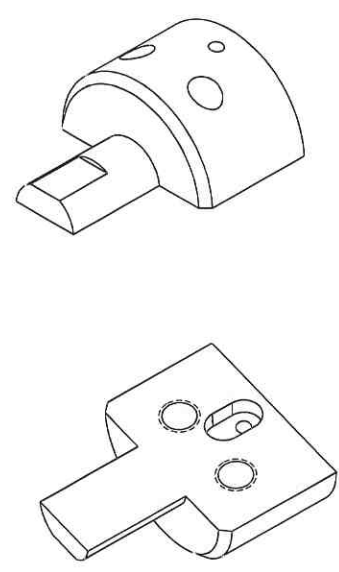
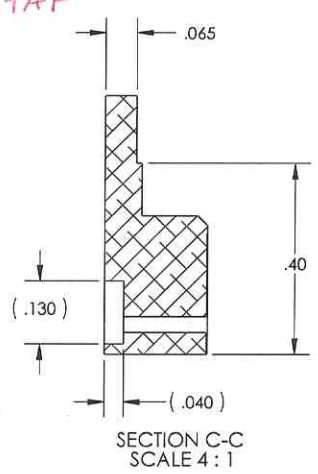
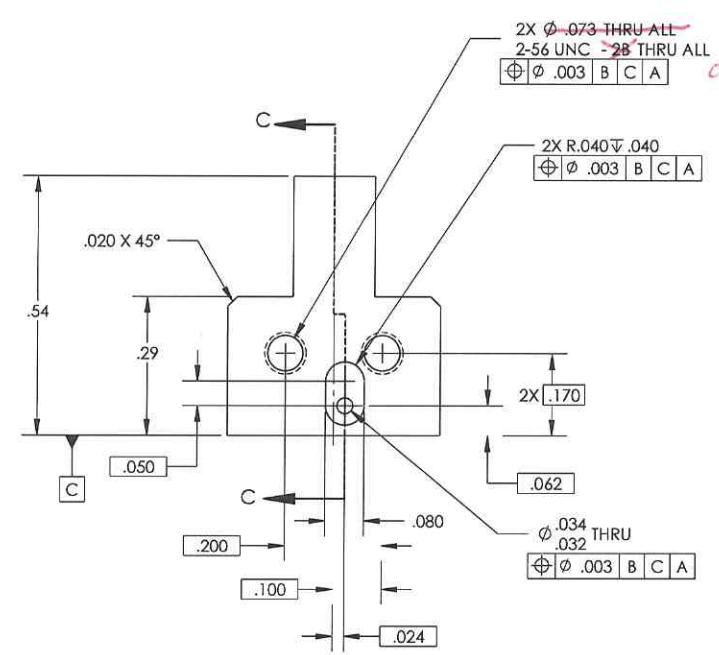
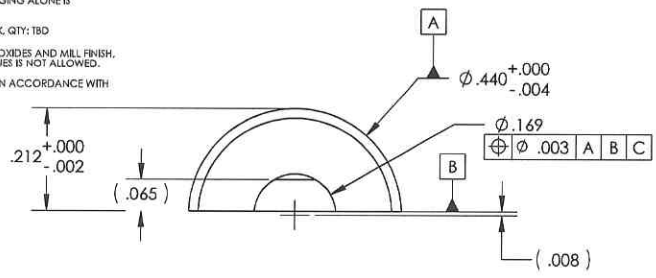
D0900583_ActLIGO_AOS_D0900583_Music Wire Split Clamp 2. PART PDM REV: X-011. DRAWING PDM REV: X-012

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): DXXXXXXX-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 ED900364.



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES

TOLERANCES:
 .XX ± .005
 .XXX ± .002
 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.

MATERIAL: 304, 316 OR 302 SSSL

FINISH: 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: **ADVANCED LIGO** SUB-SYSTEM: **AOS**

NEXT ASSY: **D0900586**

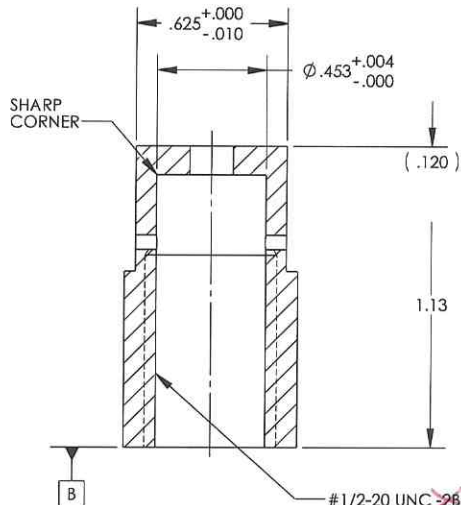
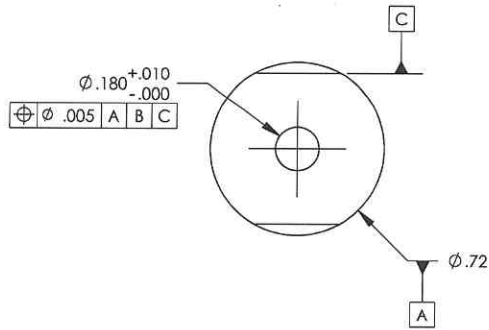
PART NAME			MUSIC WIRE SPLIT CLAMP 2	
DESIGNER	DATE	SIZE	DWG. NO.	REV.
N. Nguyen	16 Aug 2009	B	D0900583	v3
DRAFTER	M. Smith	SCALE	PROJECTION	SHEET 1 OF 1

v4.1
LCA
1/26/11

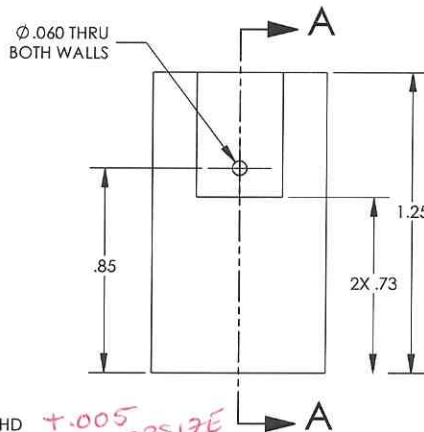
D0900588_AdlIGO_AOS_FARADAY ISOLATOR_Wire Adjustable Adapter_PART PDM REV: X008_DRAWING PDM REV: X013

NOTES CONTINUED:

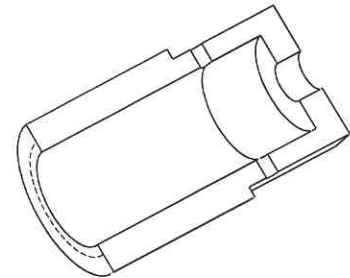
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR 'TYPE' (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
EXAMPLE (PART): 001-v1
EXAMPLE (TAG): D000000X-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.



SECTION A-A
SCALE 2 : 1



#1/2-20 UNC-2B X .79 DP THD
(BOTTLE BRUSH THOROUGHLY TO CLEAN THREADS)
+0.005 OVERSIZE TAP



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN
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.

MATERIAL 6061-T6 Al

FINISH 63 μinch

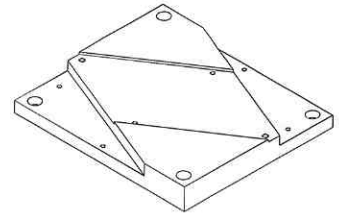
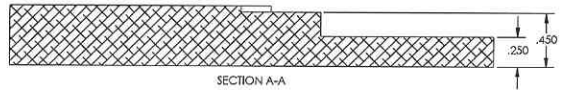
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
NEXT ASSY FARADAY ISOLATOR

PART NAME		WIRE ADJUSTABLE ADAPTER	
DESIGNER	SIZE DWG. NO.	REV.	
DRAFTER	B	D0900588	v2
CHECKER	SCALE: 1:1	PROJECTION:	SHEET 1 OF 1
APPROVAL			

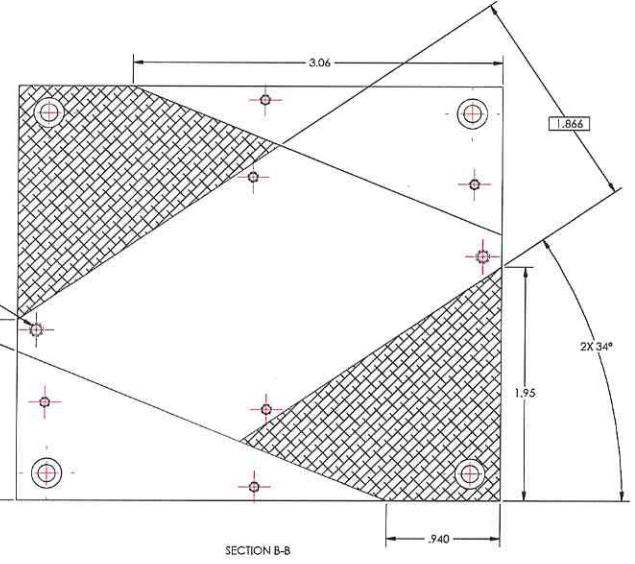
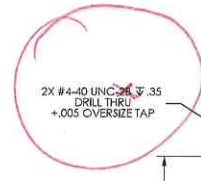
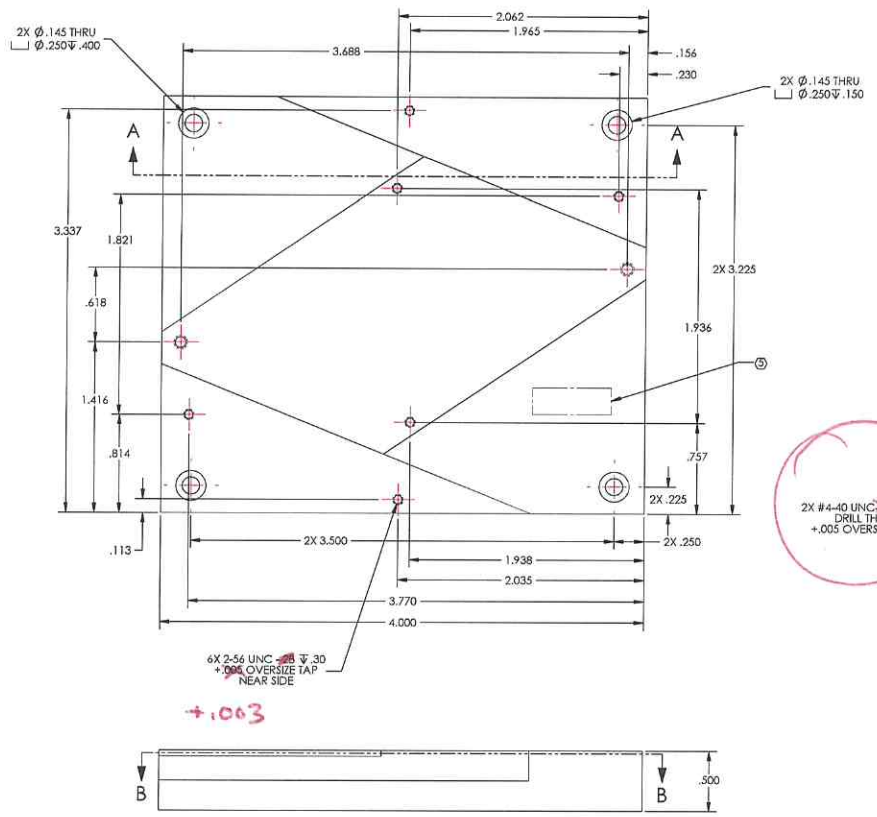
*v3.1
LCA
1/26/11*

NOTES CONTINUED:
 3. SCRIE ENGRAVE OR MECHANICALLY STAMP AND BURN OR DYE DRAWING PART NUMBER, REVISION AND VARIANT OR TYPE IF APPLICABLE ON HOTTED 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 1/2" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXXVY, TYPE-XX 3/N XXXX
 4. APPROXIMATE WEIGHT ±0.547 LB.
 5. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 6. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION 0900384.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	



GENERAL VIEW FOR REFERENCE ONLY
NO SCALE

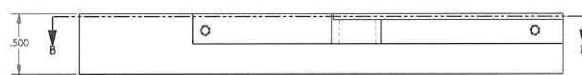
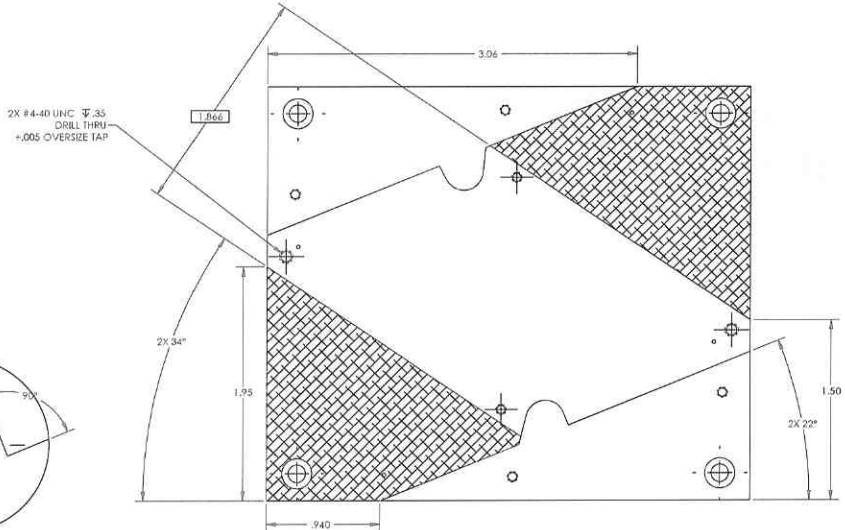
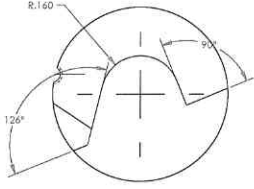
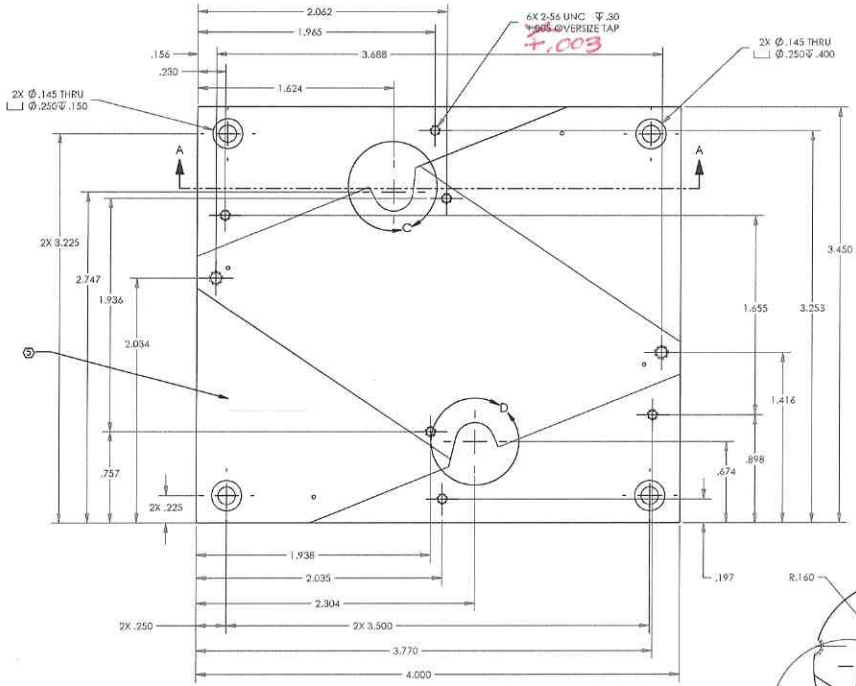
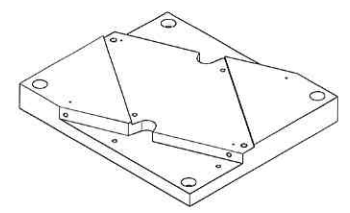
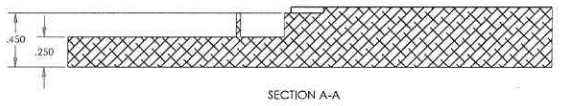
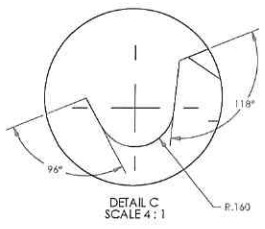


NOTES AND TOLERANCES (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES		LIGO		PRISM MOUNT BASE_LH	
1. INTERPRET DRAWING PER ASME Y14.3-1994.		ADVANCED LIGO		DESIGNER	TQ HOEHN
2. REMOVE ALL SHARP EDGES, 60Z MIN.		AOS		DRAFTER	TQ HOEHN
3. DO NOT SCALE FROM DRAWING.		NEXT ASSY		CHECKER	AL SHEN
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		D0900614		APPROVAL	D. ODINE
MATERIAL 6061-T6 Al		FINISH 63 μinch		SCALE	2:1
TOLERANCES: .XX ± .01 .XXX ± .005		SUB-SYSTEM		SIZE	D
ANGULAR ± 0.5°		DATE		DWG. NO.	D0900616
		DATE		REV.	v1
		DATE		SHEET 1 OF 1	

V2.1
LCA
1/26/11

NOTES CONTINUED:
 3. SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK OR MECHANICALLY STAMP (NO PENS 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 1/16" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. EXAMPLE: DXXXXXXX, TYPEXX, S/N XXX.
 4. APPROXIMATE WEIGHT IS 0.547 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 60900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	E1000474
v2	16 FEB 2011	E1000563	E1000474



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.

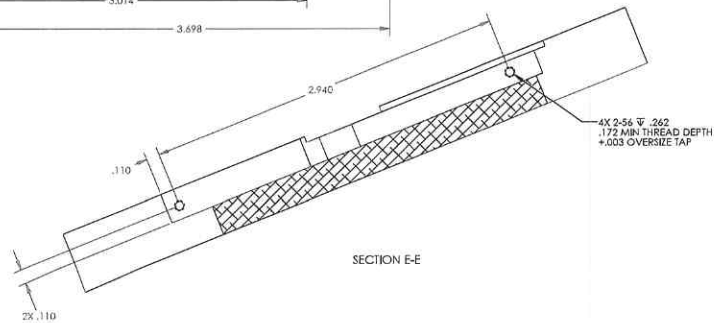
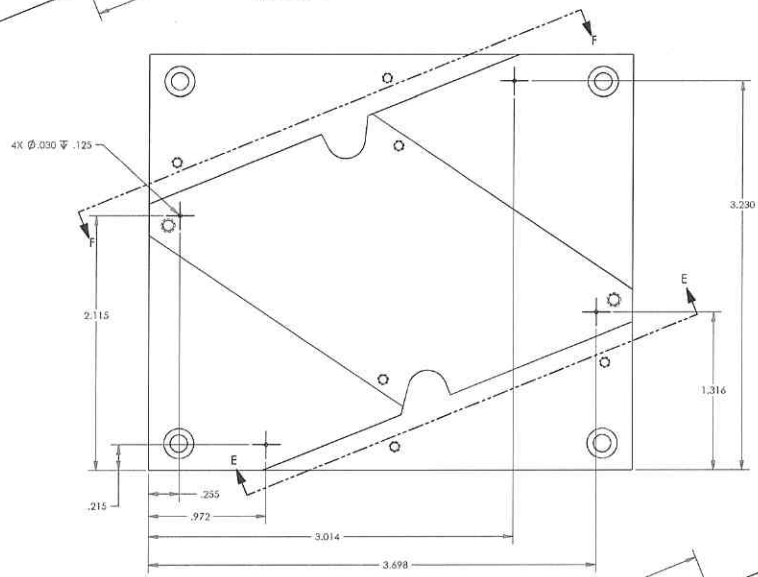
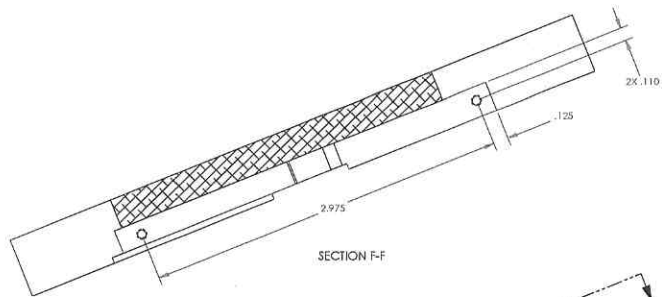
TOLERANCES:
 .XX ± .01
 .XXX ± .005
 ANGULAR ± 0.5°

DIMENSIONS ARE IN INCHES

MATERIAL	6061-T6 Al	FINISH	63 μinch	SYSTEM	ADVANCED LIGO	SUB-SYSTEM	AOS	DESIGNER	TG.LIGI@MIT	DATE	16 JUL 2010	SIZE	D	DWG. NO.	D0900620	REV.	v2
NEXT ASSY	D0900615	APPROVAL	D.C.G./H.E.	SCALE	2:1	PROJECTION	1	SHEET	1	OF	2						

PART NAME: PRISM MOUNT BASE_RH

v3.1
 LEA
 2/23/11




CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE	DWG. NO.	REV.
D	D0900620	v2

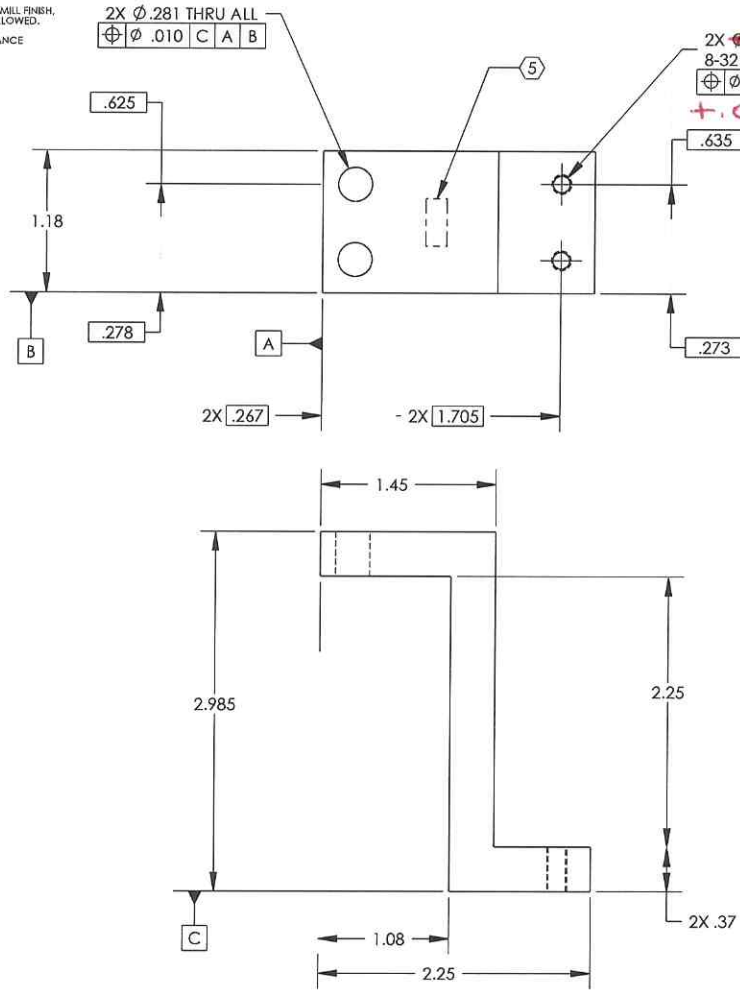
SCALE: 2:1 PROJECTION: SHEET 2 OF 2

V3.1
LCA
2/23/11

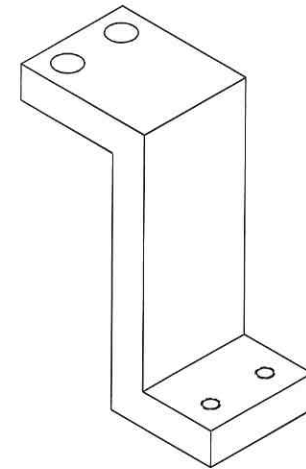
D0901569_A.ctb LIGO_AOS_FI D0900136_Magnetic Plate Mounting Front Bracket. PART PDM REV: X-003. DRAWING PDM REV: X-009

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
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	05 AUG 2009		
v2	07 OCT 2010	E1000563	
-	-	-	-



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES.
 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 SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410.
 MATERIAL 6061-T6 Al
 FINISH 63 µinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
 NEXT ASSY D0900136

PART NAME MAGNETIC PLATE MOUNTING FRONT BRACKET
 DESIGNER N.Nguyen 05 Aug 2009
 DRAFTER M.5mith 05 Aug 2009
 CHECKER
 APPROVAL
 SIZE DWG. NO. B D0901569
 REV. v2
 SCALE 1:1 PROJECTION SHEET 1 OF 1

v3-1
 LCA
 1/26/11

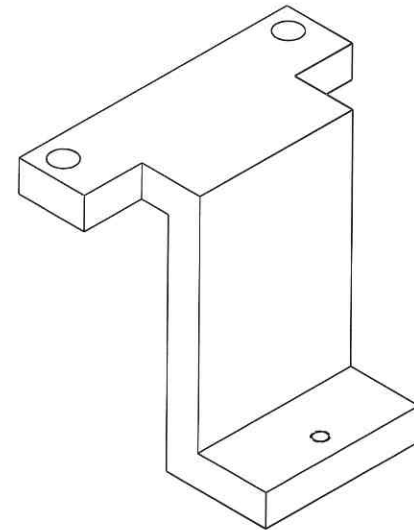
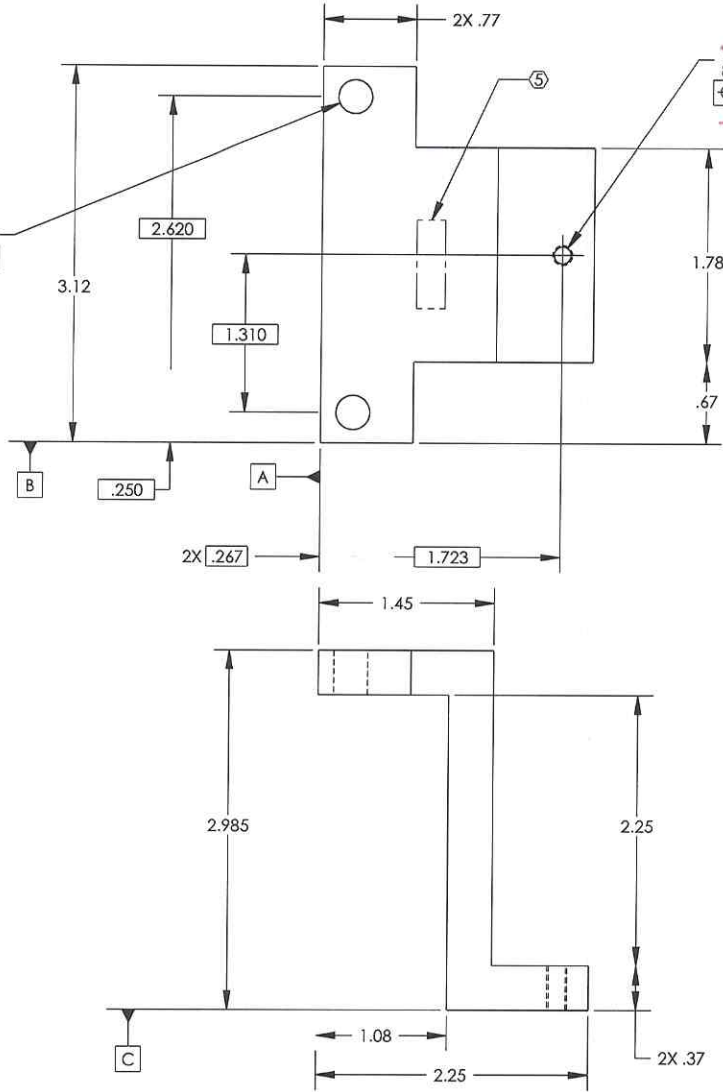
D0901570_AvtLIGO_AOS_FI D0900136_Magnetic Plate Mounting Back Bracket, PART PDM REV: X-004, DRAWING PDM REV: X-007

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.

2X \varnothing .281 THRU ALL
 $\oplus \varnothing$.010 C A B

~~\varnothing .141 THRU ALL~~
~~8-32 UNC-2B THRU~~
 $\oplus \varnothing$.010 C A B
 +.005 OVERSIZED TAP



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES.

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 SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410.
 MATERIAL: 6061-T6 Al
 FINISH: 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 SYSTEM: ADVANCED LIGO
 SUB-SYSTEM: AOS
 NEXT ASSY: D0900136

PART NAME: MAGNETIC PLATE MOUNTING BACK BRACKET
 DESIGNER: H.Nguyen
 DRAFTER: H.Nguyen
 CHECKER: M.Smith
 APPROVAL: [Signature]
 SIZE DWG. NO.: B
 D0901570
 SCALE: 1:1
 PROJECTION: [Symbol]
 REV. v2

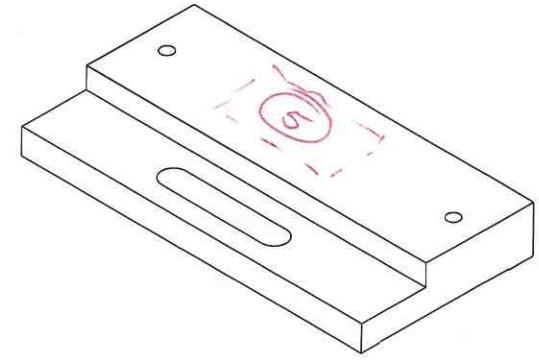
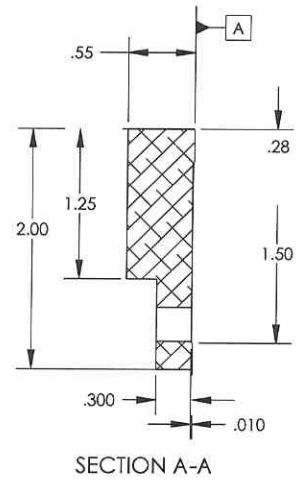
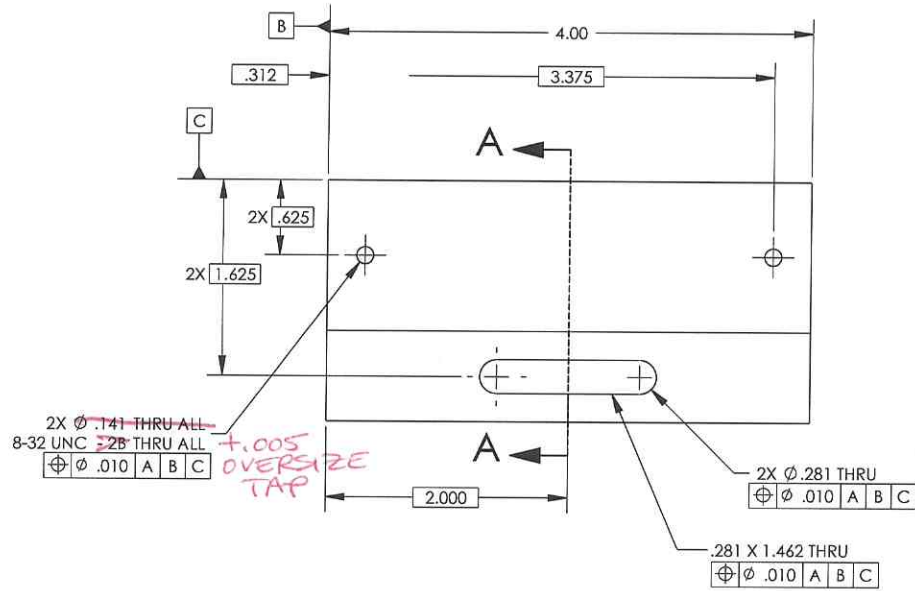
V3-1
 LCA
 1/26/11

D0901764_AdlCO_AOS_FT D0900623_Table Balance Weight. PART PDM REV: X-020. DRAWING PDM REV: X-013

NOTES CONTINUED:

- 3. 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-V1, TYPE-XX, S/N XXX
- 4. 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	08 OCT 2010	E1000563	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES		LIGO		TABLE BALANCE WEIGHT	
TOLERANCES: .XX ± .01 XXX ± .005		ADVANCED LIGO		DESIGNER MR/URZ	
ANGULAR ± 0.5°		SUB-SYSTEM AOS		SIZE DWG. NO. B	
MATERIAL 304, 316 OR 302 SSSL		NEXT ASSY D0900623		REV. v1	
FINISH 125 µinch				SCALE: 1:1 PROJECTION: SHEET 1 OF 1	

Handwritten notes:

- V2.2
- LCA
- 2/16/14
- ~~V2.1~~
- LCA
- 1/26/11

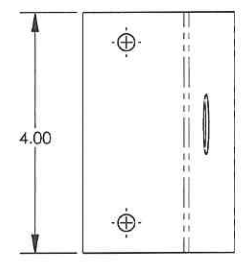
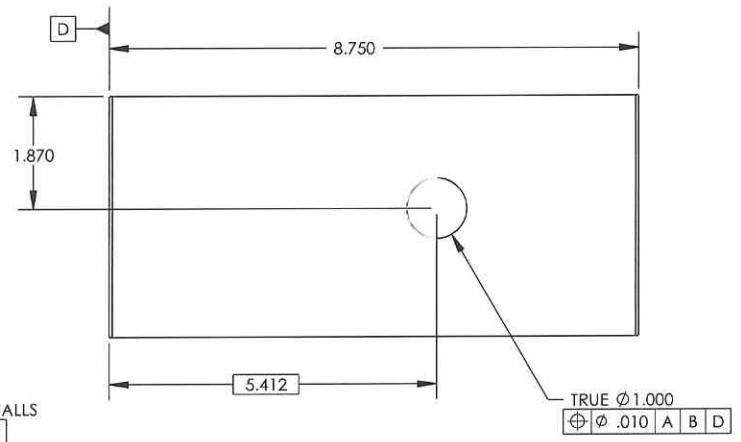
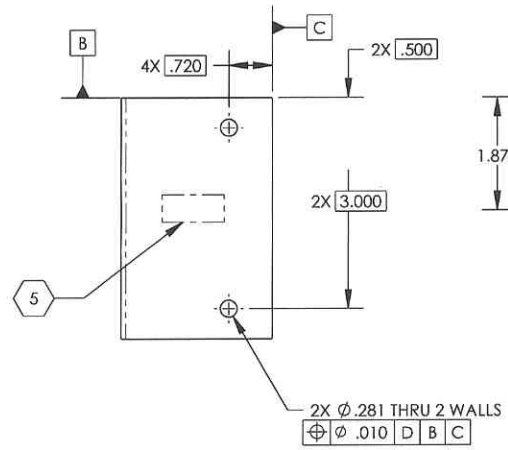
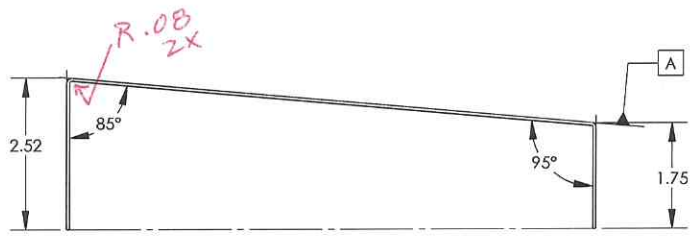
D0902845_AdLIGO_AOS_FI D0900136_Reflection Baffle. PART PDM REV: X-010. DRAWING PDM REV: X-007

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. PORCELAIN COAT PER SPECIFICATIONS E1000083
- 7. MATERIAL: MACHINE FINISH AS RECEIVED

REV.	DATE	DCN #	DRAWING TREE #
V1	09 APR 2009	-	-
V2	07 OCT 2010	E1000563	-
-	-	-	-



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: .XX ± .03, .XXX ± .010, ANGULAR ± 1.0°

MATERIAL: A424 TYPE I, 18GA, SSSL
FINISH: SEE NOTE 7

SYSTEM: ADVANCED LIGO
SUB-SYSTEM: AOS
NEXT ASSY: D0900136

CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PART NAME: REFLECTION BAFFLE

DESIGNER: MRUZ
DRAWN: 04/09/2010
CHECKER:
APPROVAL:

SIZE DWG. NO.: B
DWG. NO.: D0902845
SCALE: 1:2
PROJECTION:

REV.: V3.1
SHEET 1 OF 1

OR 304

LCA
2/2/11

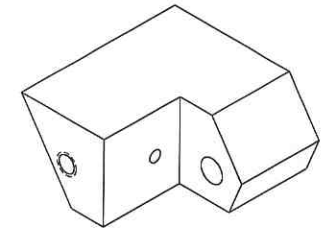
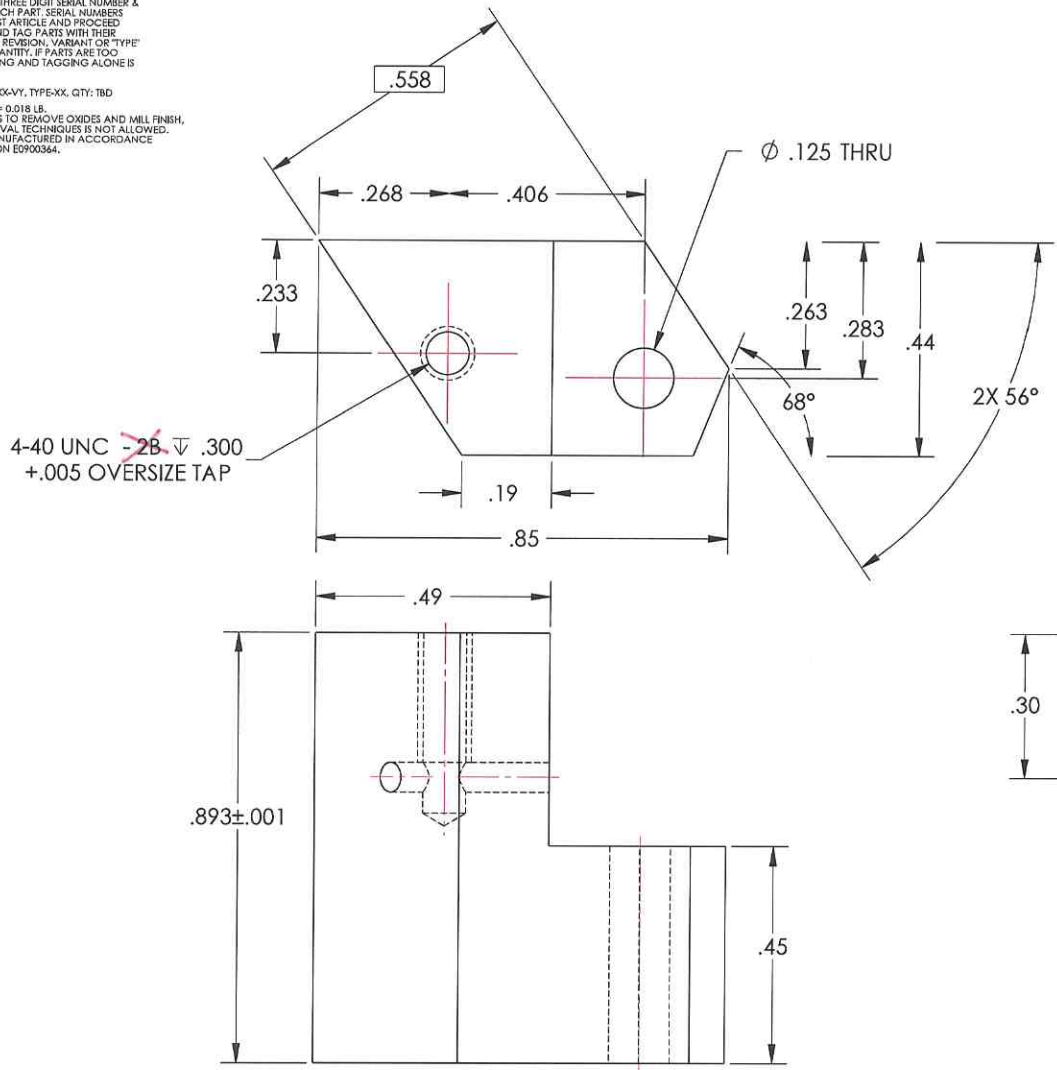
D1001859_c:\lgo_aos_D0900615_Faraday Isolator Fixed Stop RH, PART PDM REV: X-006, DRAWING PDM REV: X-007

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-w
EXAMPLE (TAG): 0000000x-yy, TYPE-xx, QTY: TBD

6. APPROXIMATE WEIGHT = 0.018 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.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW FOR REFERENCE ONLY NO SCALE

VENT HOLE THRU TAP HOLE

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 AOS		FIXED STOP_RH	
ANGULAR ± 0.5°		MATERIAL 6061-T6 Al		FINISH 63 μinch		DESIGNER TO, NGUYEN 15 JUL 2010 SIZE DWG. NO. D1001859	
				NEXT ASSY D0900615		DRAFTER TQ, NGUYEN 20 AUG 2010	
						CHECKER M. SMITH	
						APPROVAL D. COYNE	
						SCALE: 4:1 PROJECTION: SHEET 1 OF 1	

v2.1
LCA
1/26/11

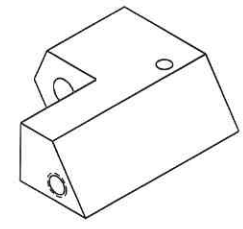
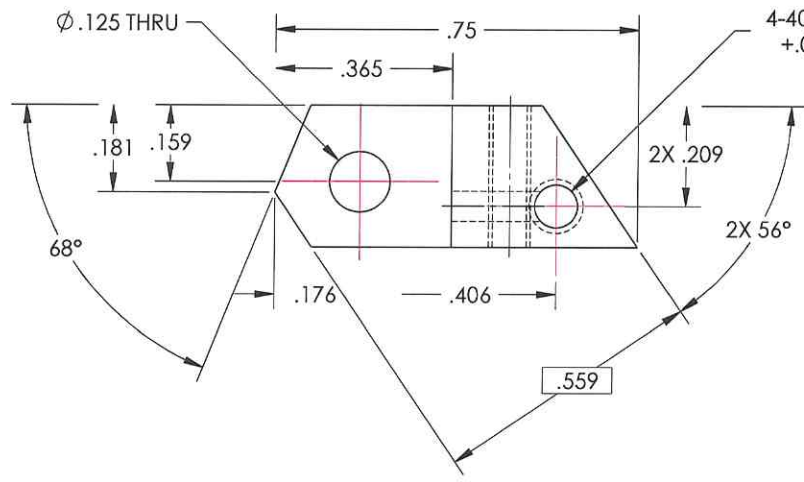
D1001860_attlCO_AOS_D0900615_Faraday Isolator Spring Block RH, PART PDM REV: X-011, DRAWING PDM REV: X-005

NOTES CONTINUED:

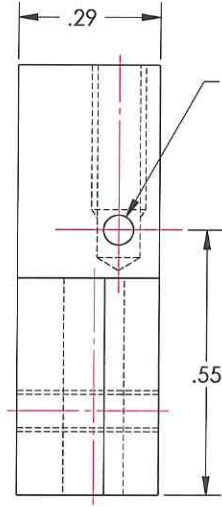
⑥ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY, IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
EXAMPLE (PART): 001-v1
EXAMPLE (TAG): DXXXXXXX-VY, TYPE-XX, QTY: TBD

6. APPROXIMATE WEIGHT = 0.011 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 E090364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

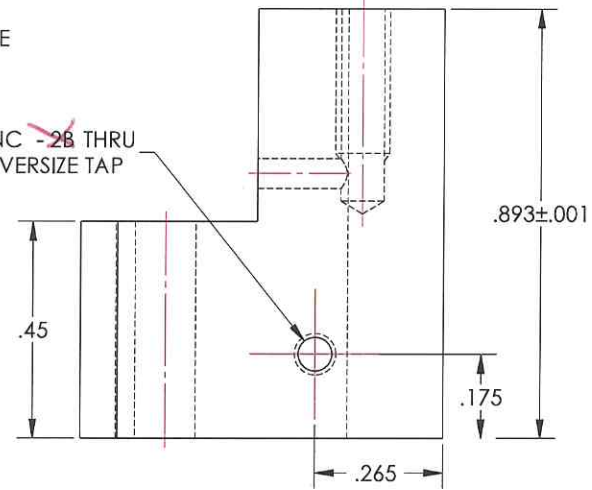


GENERAL VIEW FOR REFERENCE ONLY
NO SCALE



Ø .06
VENT HOLE THRU TAP HOLE

2-56 UNC -2B THRU
+.005 OVERSIZE TAP
+.003



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES
TOLERANCES:
XX ± .01
XXX ± .005
ANGULAR ± 0.5°
MATERIAL 6061-T6 Al
FINISH 63 µinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
NEXT ASSY D0900615

PART NAME **SPRING BLOCK_RH**
DESIGNER TQ, NGUYEN 14 JUL 2010 SIZE DWG. NO. **D1001860**
DRAWER TQ, NGUYEN 23 AUG 2010 SCALE: 4:1 PROJECTION: **B** SHEET 1 OF 1
CHECKER M. SMITH
APPROVAL D. COVNE

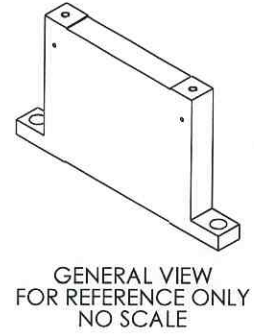
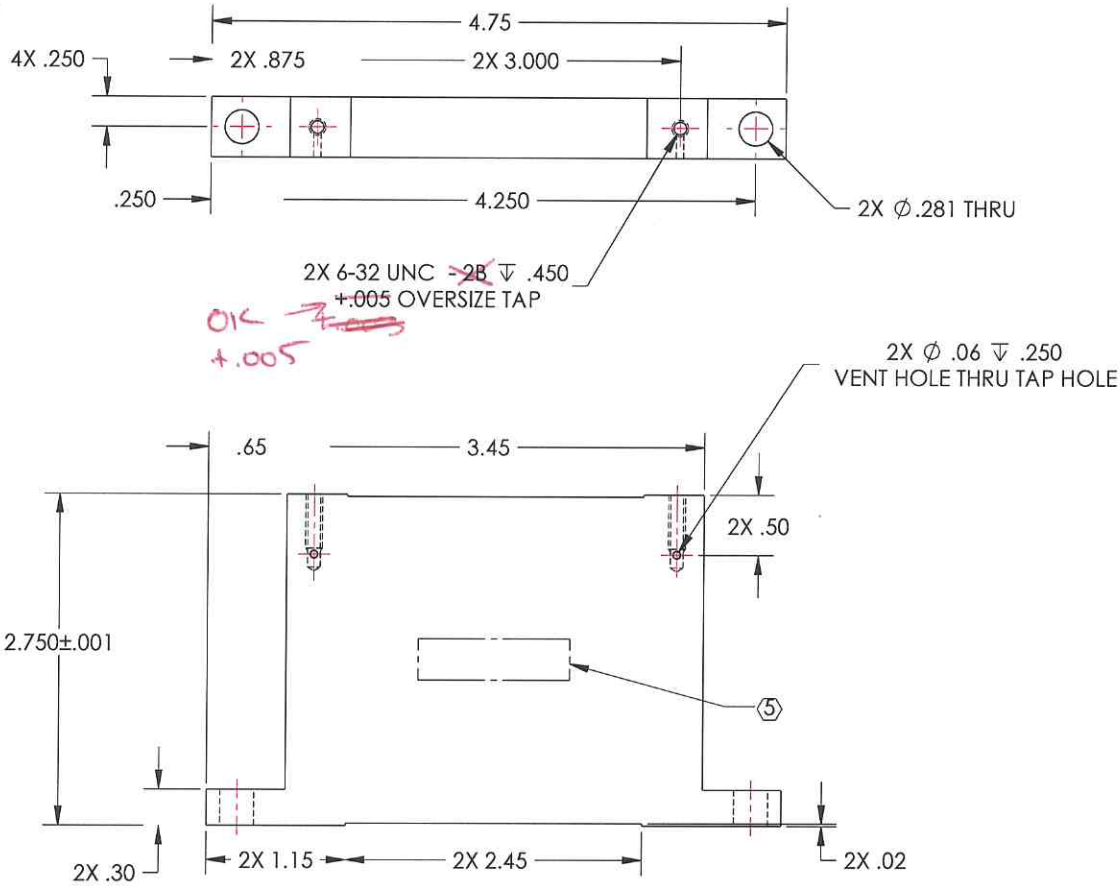
V2.1
LCA
1/26/11

D1001862_cLIGO_AOS_D0900614_Faraday Isolator Base Mount Foot. PART PDM REV: X-009. DRAWING PDM REV: X-003

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: DXXXXXXXX-VY, TYPE-XX, S/N XXX
- 6. APPROXIMATE WEIGHT = 0.472 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 ED900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES				LIGO		PRISM BASE SUPPORT	
TOLERANCES: XX ± .01 .XXX ± .005				SYSTEM ADVANCED LIGO		DESIGNER TQ. NGUYEN 19 JUL 2010	
ANGULAR ± 0.5°				SUB-SYSTEM AOS		DRAFTER TQ. NGUYEN 23 AUG 2010	
MATERIAL 6061-T6 Al				NEXT ASSY D0900615-D0900614		SIZE DWG. NO. B D1001862	
FINISH 63 μ inch				APPROVAL D. COYNE		REV. v1	
				SCALE: 1:1		SHEET 1 OF 1	

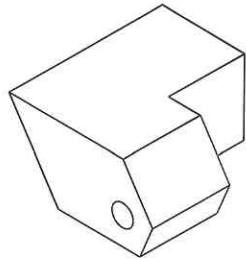
v2.1
LOA
1/26/11

D1001870_qlIGO_AOS_D0900614_Faraday Isolator Fixed Stop LH, PART PDM REV: X-004, DRAWING PDM REV: X-005

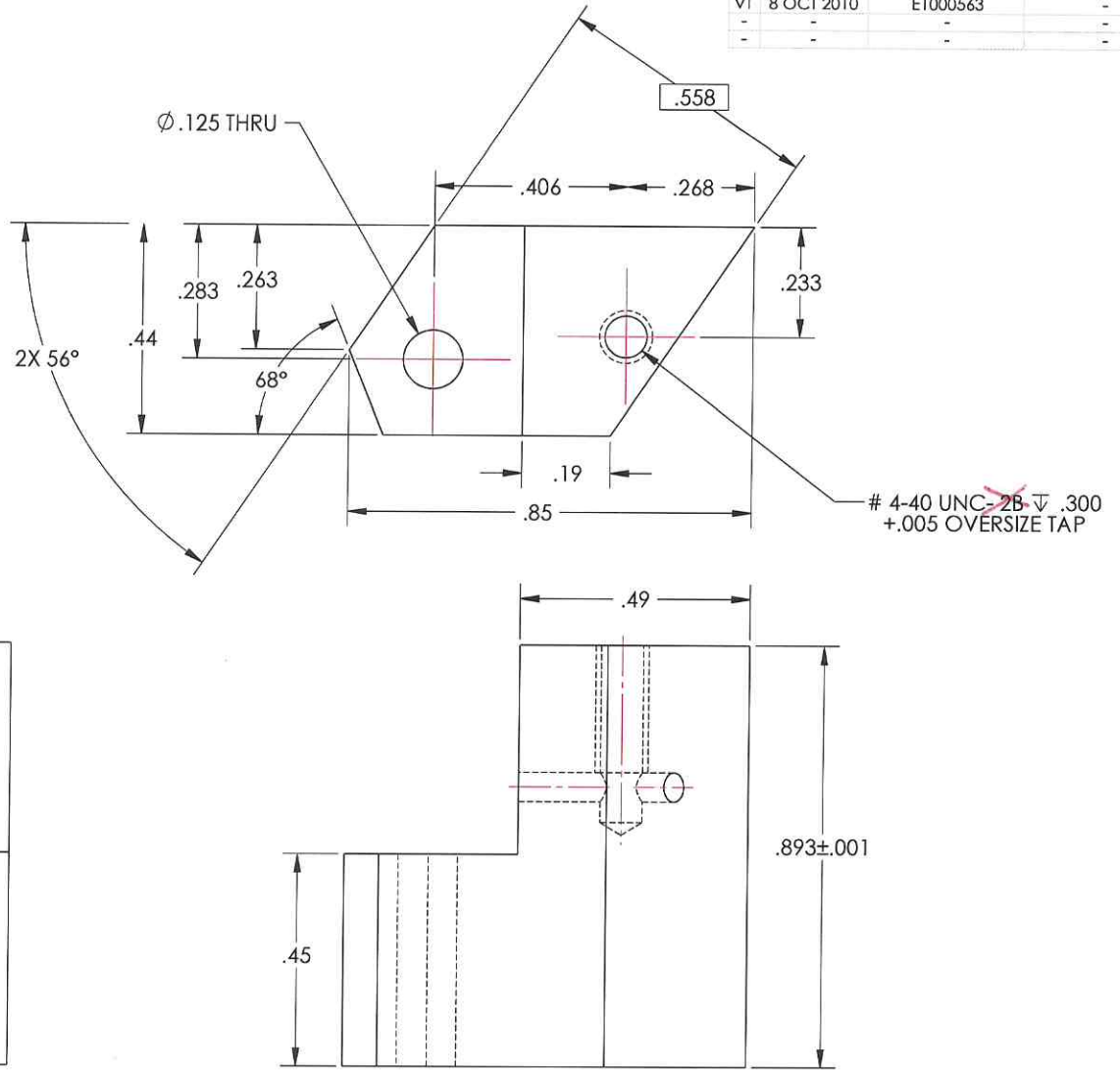
NOTES CONTINUED:

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-W
EXAMPLE (TAG): D000000-VV, TYPE-XX, QTY: TBD

6. APPROXIMATE WEIGHT = 0.018 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 ED900364.



GENERAL VIEW FOR REFERENCE ONLY NO SCALE



REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

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.

TOLERANCES:
XX ± .01
XXX ± .005
ANGULAR ± 0.5°

MATERIAL

6061-T6 Al

FINISH

63 pinch

CAUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO AOS
SUB-SYSTEM: NEXT ASSY D0900614

PART NAME

FIXED STOP_LH

DESIGNER: TQ. NGUYEN 15 JUL 2010
DRAFTER: TQ. NGUYEN 27 AUG 2010
CHECKER: M. SMITH
APPROVAL: D. COYNE

SIZE: B DWG. NO.: D1001870

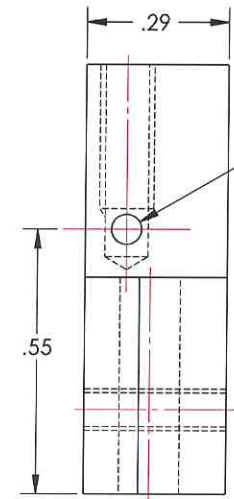
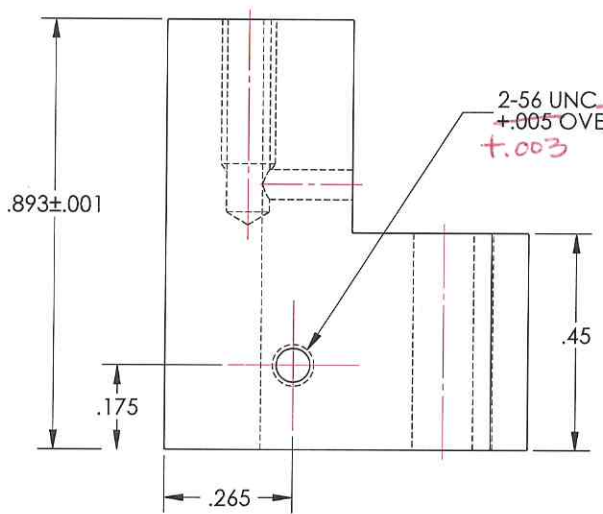
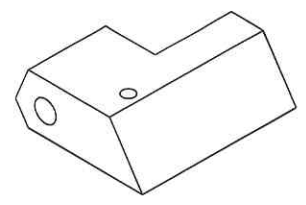
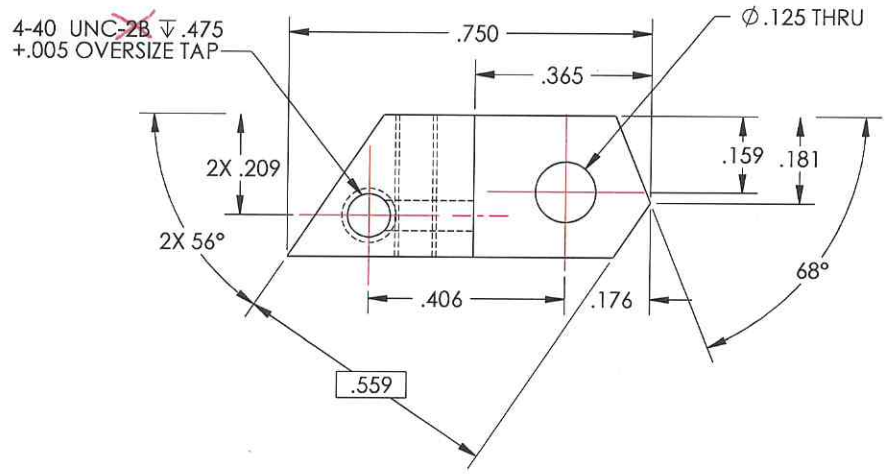
SCALE: 4:1 PROJECTION: SHEET 1 OF 1

v2.1
LCA
1/26/11

D1001871_c:\LIGO_AOS_D0900614_Faraday Isolator Spring Block LH, PART PDM REV: X-004, DRAWING PDM REV: X-004

NOTES CONTINUED:
 ③ 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): D100XXXX-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	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



DIMENSIONS ARE IN INCHES		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
TOLERANCES:	.XX ± .01	1. INTERPRET DRAWING PER ASME Y14.5-1994.	2. REMOVE ALL SHARP EDGES, R.02 MIN.	SYSTEM	ADVANCED LIGO	DESIGNER	TO, NGUYEN 14 JUL 2010
	.XXX ± .005	3. DO NOT SCALE FROM DRAWING.	4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	SUB-SYSTEM	AOS	DRAFTER	TQ, NGUYEN 27 AUG 2010
ANGULAR ± 0.5°		MATERIAL	6061-T6 Al	NEXT ASSY	D0900614	CHECKER	M. SMITH
		FINISH	63 µinch			APPROVAL	D. COYNE
						SCALE:	4:1
						PROJECTION:	
						SHEET	1 OF 1

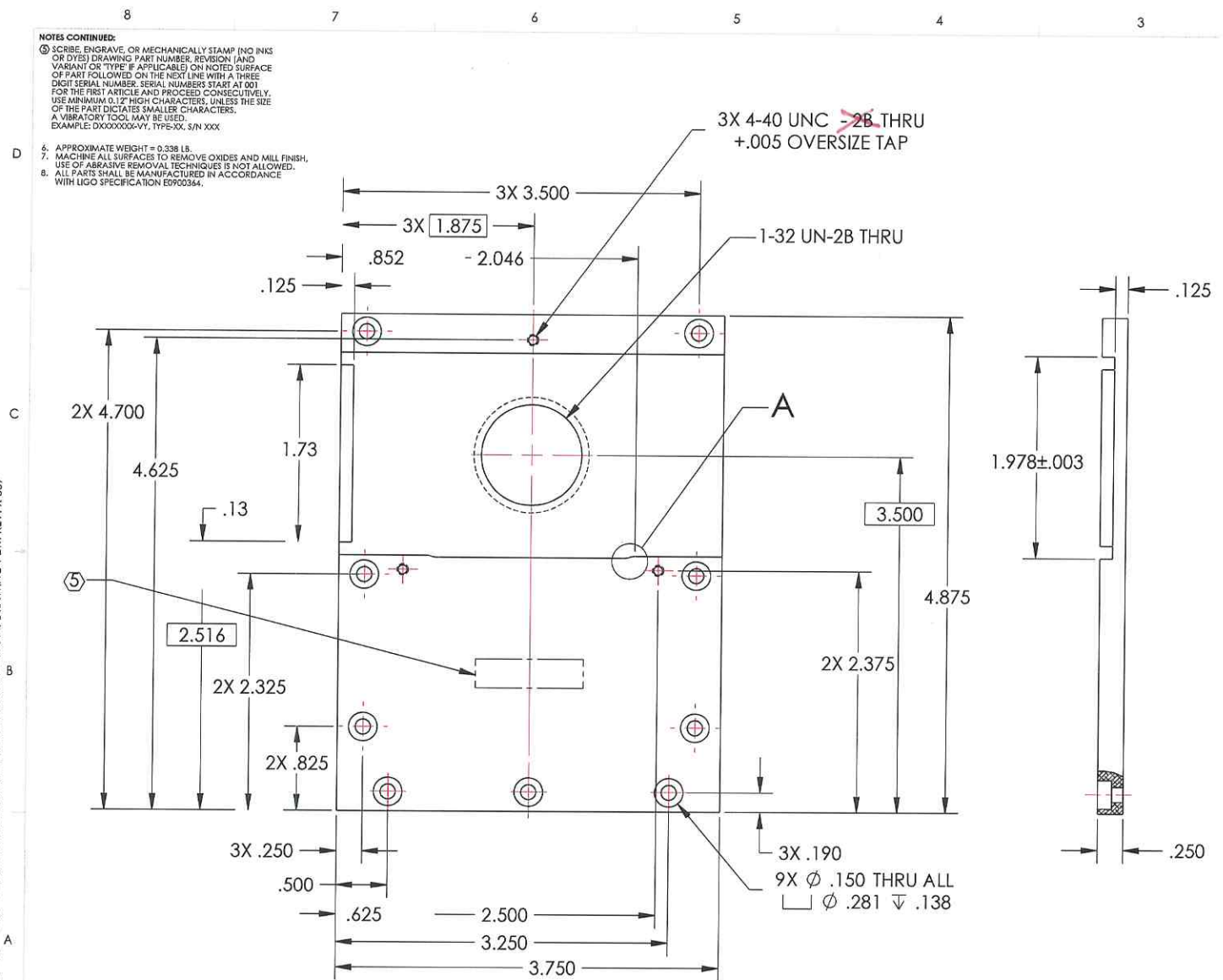
V2-1
 LEA
 1/26/11

D1001915_calico_aos_Wedge Window Panel_Input Baffle, PART PDM REV: X-014, DRAWING PDM REV: X-007

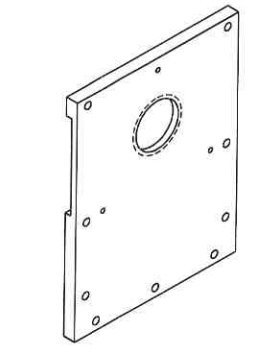
NOTES CONTINUED:

6. 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

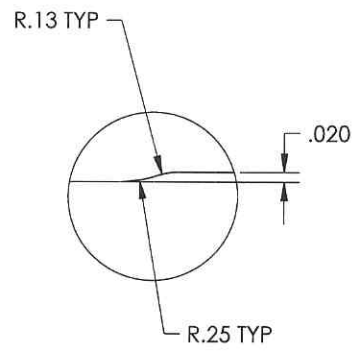
6. APPROXIMATE WEIGHT = 0.538 LB.
7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION ED900364.



REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-



GENERAL VIEW FOR REFERENCE ONLY NO SCALE



DETAIL A SCALE 4 : 1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

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.

MATERIAL: 6061-T6 Al
 FINISH: 63 µinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO
 SUB-SYSTEM: AOS
 NEXT ASSY: D0900623

PART NAME: INPUT BAFFLE HOLDER

DESIGNER: TQ. NGUYEN 26 JUL 2010
 DRAFTER: TQ. NGUYEN 23 AUG 2010
 CHECKER: M. SMITH
 APPROVAL: D. COYNE

SIZE: B
 DWG. NO.: D1001915
 SCALE: 1:1
 PROJECTION: 1st ANGLE

REV. v1
 SHEET 1 OF 1

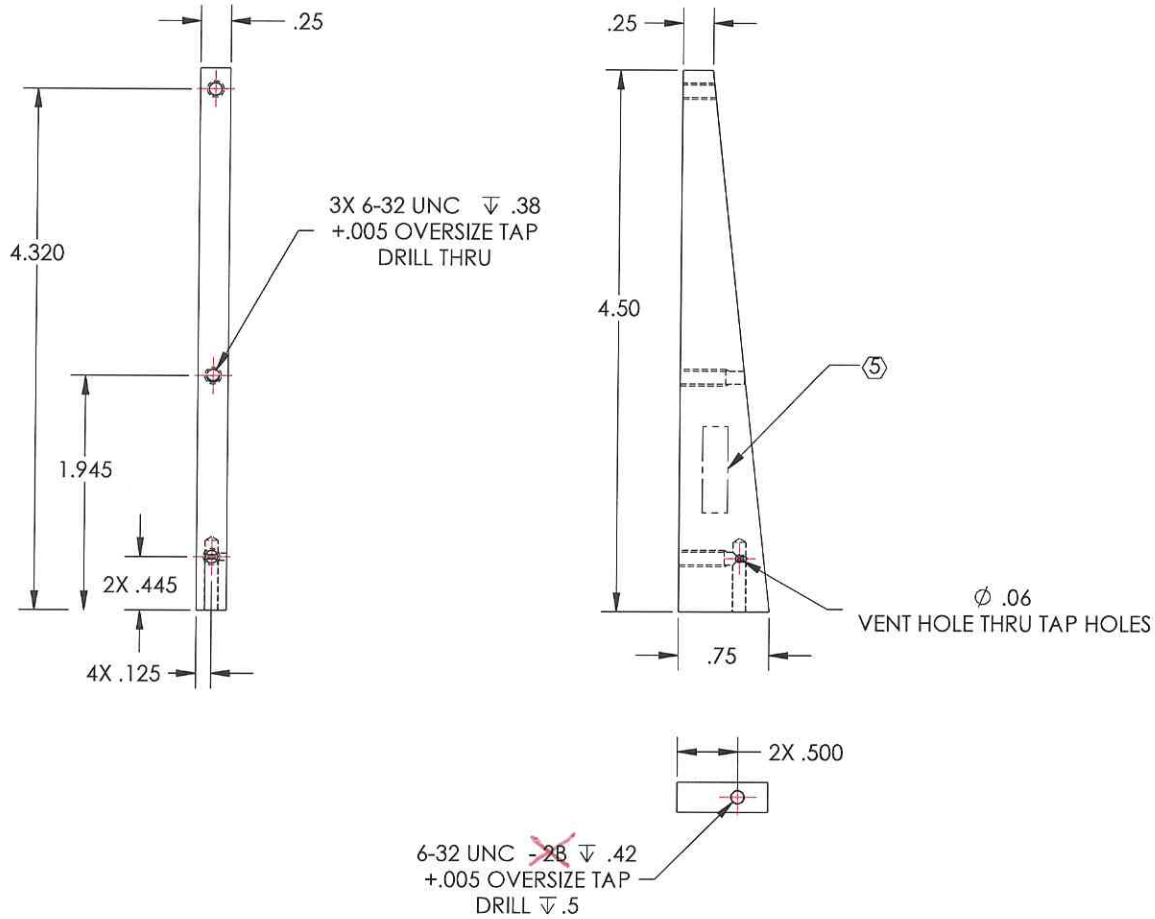
v2-1
LCA
1/26/11

D1001916_cdlCO_AOS_Wedge Window Side Support, PART PDM REV: X-007, 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. APPROXIMATE WEIGHT = 0.053 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.



REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

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.

MATERIAL 6061-T6 Al

FINISH 63 μ inch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM **ADVANCED LIGO** SUB-SYSTEM **AOS**

NEXT ASSY **D1001918**

PART NAME **INPUT BAFFLE SIDE SUPPORT**

DESIGNER TO, NGUYEN 27 JUL 2010 SIZE DWG. NO. **D1001916** REV. **v1**

DRAFTER TQ, NGUYEN 24 AUG 2010

CHECKER M. SMITH

APPROVAL D. COYNE

SCALE: 1:1 PROJECTION: SHEET 1 OF 1

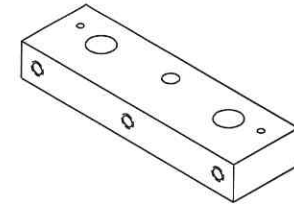
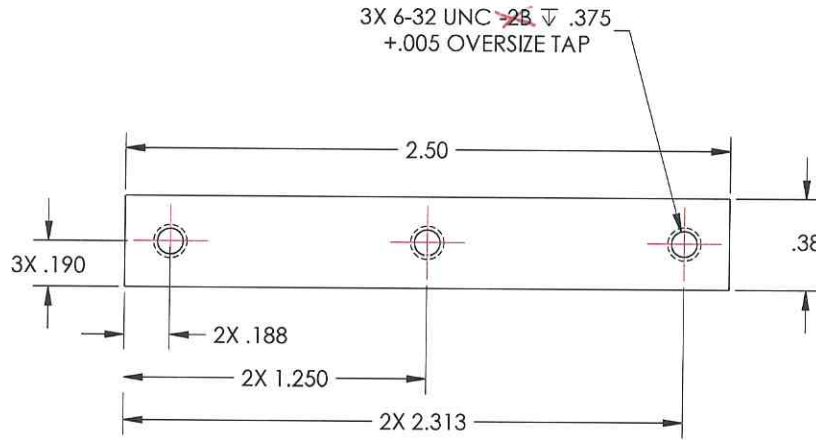
v2-1
vca
1/26/11

NOTES CONTINUED:

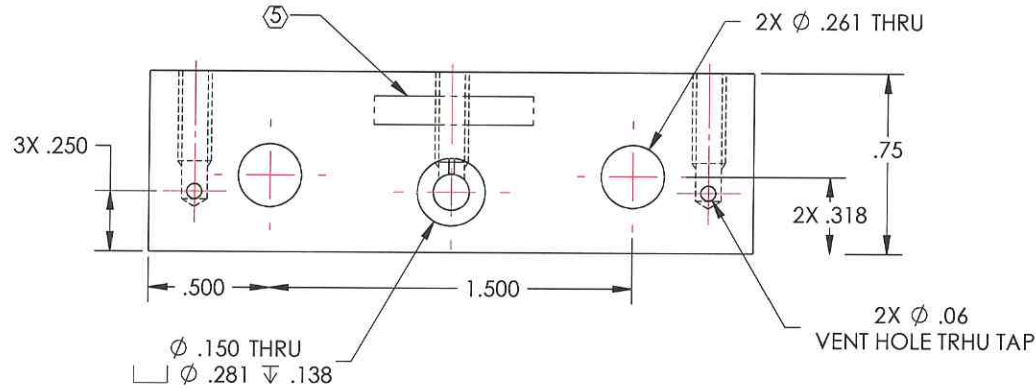
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" 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: E0900664.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW FOR REFERENCE ONLY NO SCALE



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

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.

MATERIAL 6061-T6 Al

FINISH 63 μ inch

CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
 NEXT ASSY D1001963

PART NAME OUTPUT ALIGNMENT FIXTURE BASE
 DESIGNER TQ. NGUYEN 27 JUL 2010 SIZE DWG. NO. B D1001961
 DRAFTER TQ. NGUYEN 25 AUG 2010
 CHECKER M. SMITH
 APPROVAL D. COYNE
 SCALE: 2:1 PROJECTION: SHEET 1 OF 1

v2-1
LCA
1/26/11

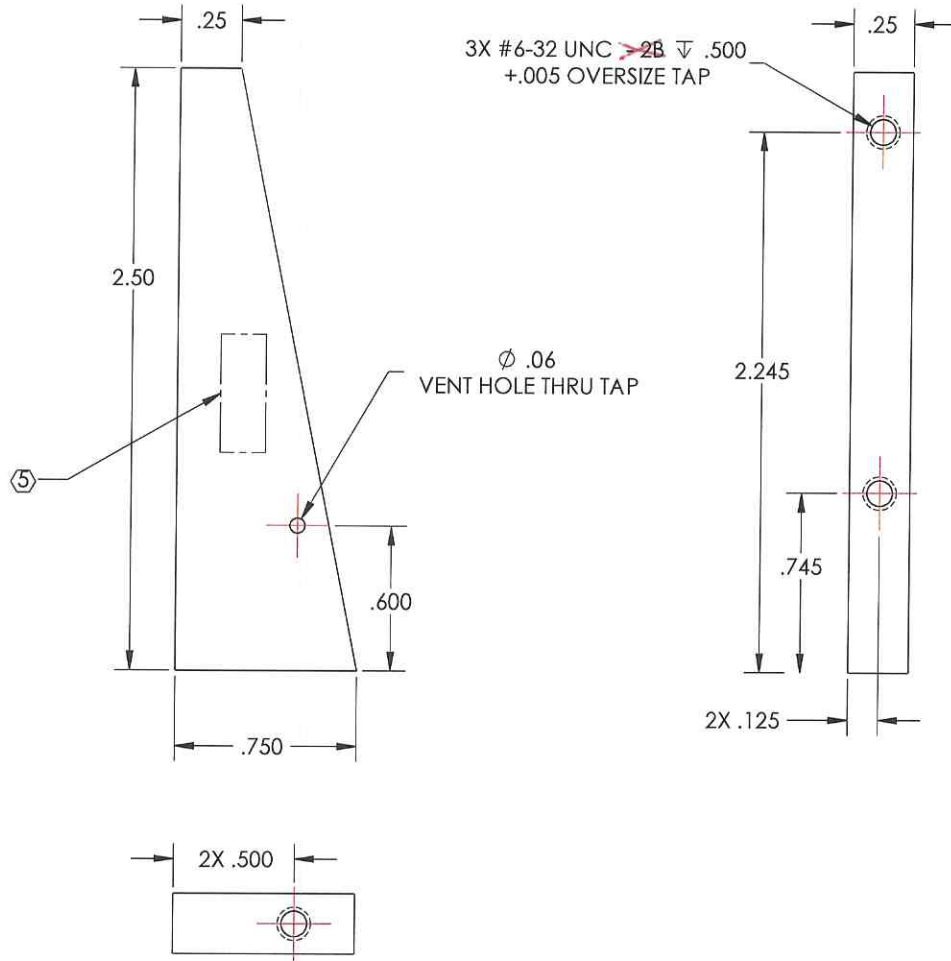
D:\001961_caligo_Wedge WindowPlatform_OUTPUT BAFFLE.PART PDM REV: X-007.DRAWING PDM REV: X-008

D1001962_c:\lgo_aos_wedge Window Middle Support_OUTPUT BAFFLE 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 CVIDES 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	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

GENERAL VIEW FOR REFERENCE ONLY NO SCALE

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

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.

MATERIAL 6061-T6 Al
FINISH 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
SYSTEM ADVANCED LIGO
SUB-SYSTEM AOS
NEXT ASSY D1001963

PART NAME OUTPUT ALIGNMENT FIXTURE SUPPORT
DESIGNER TQ, NGUYEN 27 JUL 2010 SIZE DWG. NO. D1001962
DRAFTER TQ, NGUYEN 25 AUG 2010
CHECKER M. SMITH
APPROVAL D. COYNE
SCALE: 2:1 PROJECTION: SHEET 1 OF 1

v2-1
LCA
1/26/14

D1002112_Magnetic Plate Mounting Back (Lowered) Bracket, PART PDM REV: X-006, DRAWING PDM REV: X-009

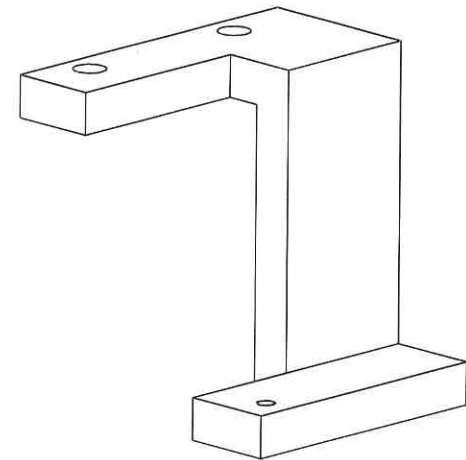
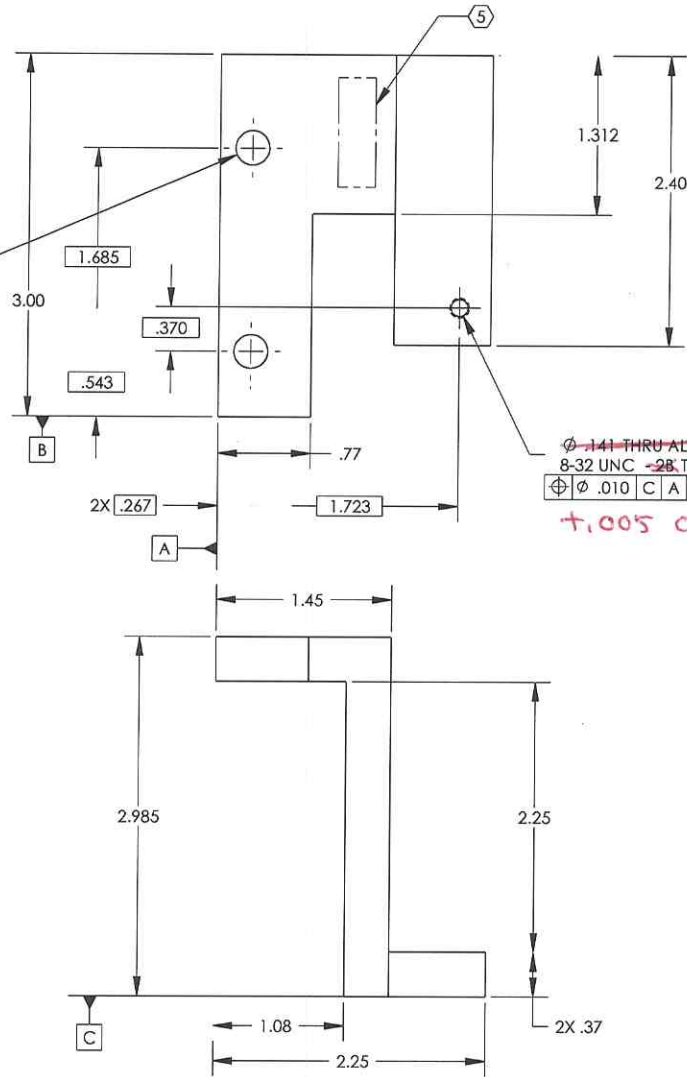
NOTES CONTINUED:

- 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
- 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.

2X ϕ .281 THRU ALL
 ϕ .010 C A B

~~ϕ .141 THRU ALL~~
8-32 UNC ~~.28~~ THRU ALL
 ϕ .010 C A B

+.005 OVER SIZE TAP



REV.	DATE	DCN #	DRAWING TREE #
v1	07 OCT 2010	E1000563	

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN:
TOLERANCES:
XX ± .02
XXX ± .010
ANGULAR ± .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.

MATERIAL: 6061-T6 Al
FINISH: 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO
SUB-SYSTEM: AOS
NEXT ASSY: D0900048

PART NAME		MAGNETIC PLATE MOUNTING BACK (LOWER) BRACKET	
DESIGNER	MURIZ	DATE	14 AUG 2010
DRAFTER		SIZE	B
CHECKER		DWG. NO.	D1002112
APPROVAL		SCALE	1:1
		PROJECTION	
		SHEET	1 OF 1

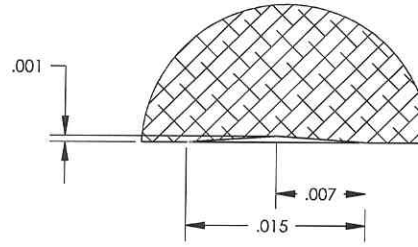
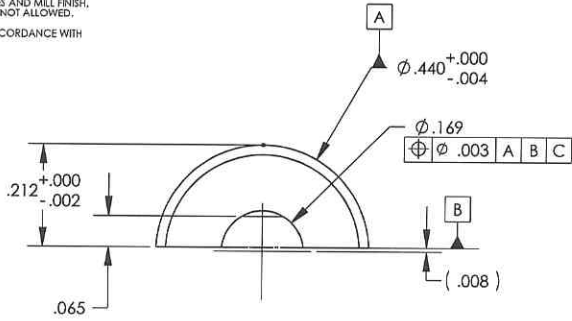
REV. v1
VZ-1
LEA
1/26/11

D1002168_AdlIGO_AOS_D0900586_Music Wire Split Clamp 3. PART PDM REV: X-008. DRAWING PDM REV: X-007

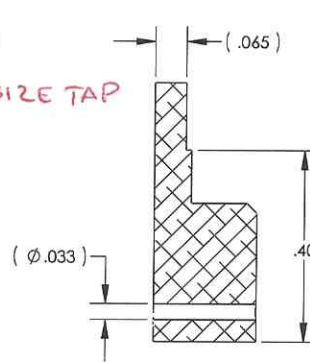
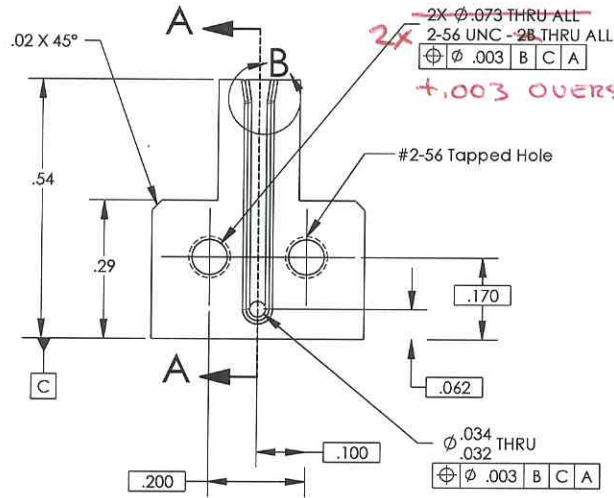
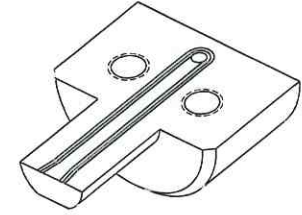
NOTES CONTINUED:

Ⓢ 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]: DXXXXXXX-VY, TYPE:XX, QTY: 1BD

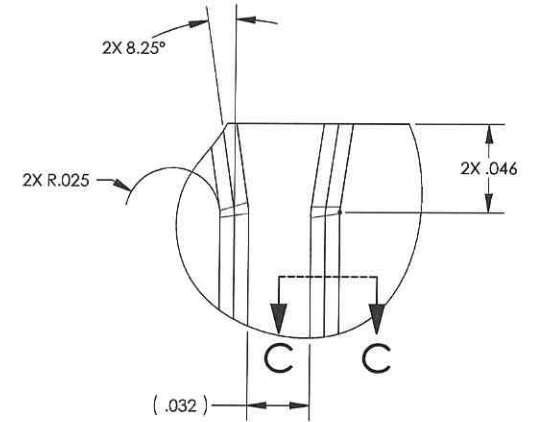
6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.



DETAIL C
SCALE 100 : 1



SECTION A-A



DETAIL B
SCALE 16 : 1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN
TOLERANCES:
XX ± .005
XXX ± .002
ANGULAR ± .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.
MATERIAL 304, 316 OR 302 SS TL
FINISH 63 µinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
SYSTEM ADVANCED LIGO
SUB-SYSTEM AOS
NEXT ASSY D0900586

PART NAME MUSIC WIRE SPLIT CLAMP 3
DESIGNER MRUR
DRAFTER MURUR 24 SEP 2010
CHECKER
APPROVAL
SIZE DWG. NO. B
D1002168
SCALE: 4:1
PROJECTION:
REV. v1
SHEET 1 OF 1

v2-1
LEA
1/26/11

D1002257_ALIGO_AOS_D100256_Crossbar Plate_In_PART PDM REV: X-005, DRAWING PDM REV: X-009

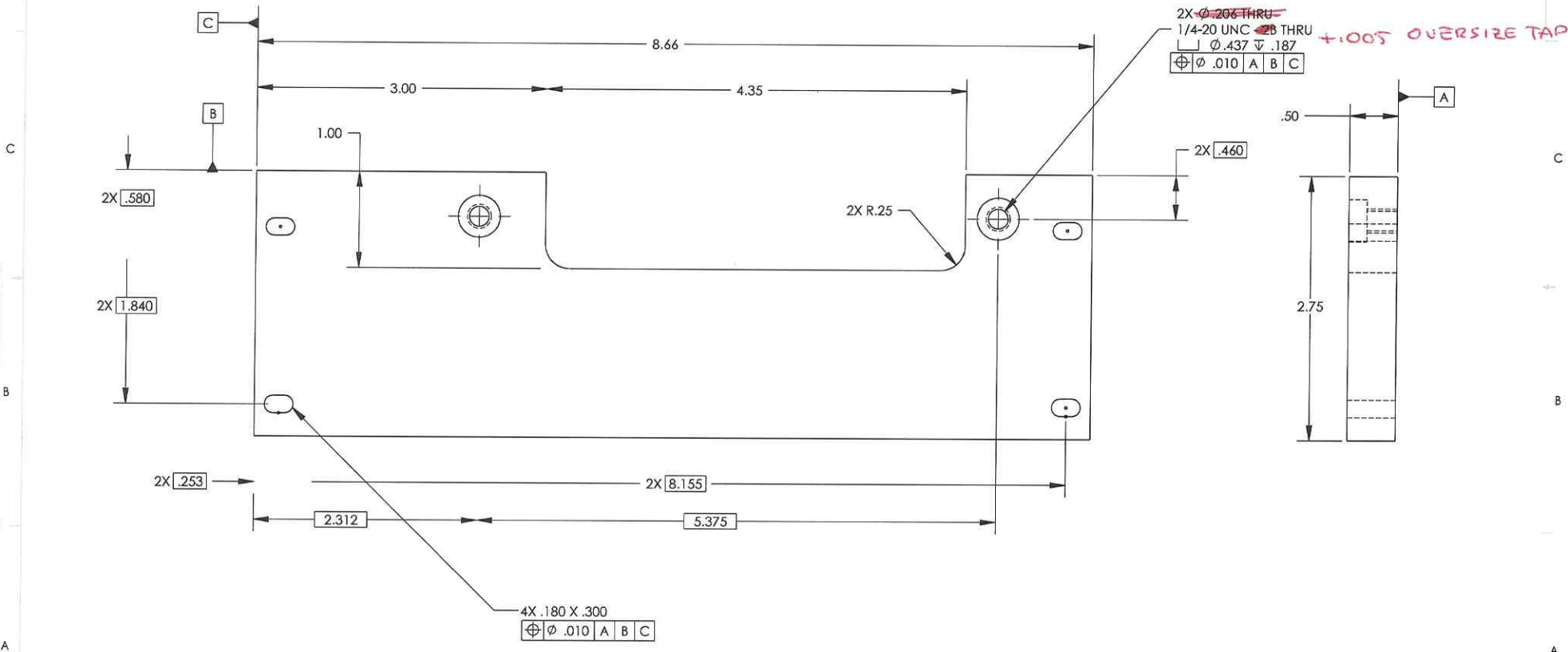
NOTES CONTINUED:

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

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	08 OCT 2010	E1000563	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN:		SYSTEM		CROSSBAR PLATE_IN	
1. INTERPRET DRAWING PER ASME Y14.5-1994.		ADVANCED LIGO		SIZE DWG. NO.	
2. REMOVE ALL SHARP EDGES, R.02 MIN.		SUB-SYSTEM		B	
3. DO NOT SCALE FROM DRAWING.		AOS		D1002257	
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		NEXT ASSY		REV.	
MATERIAL		D1002256		v1	
6061-T6 Al		FINISH		SCALE: 1:1	
		63 μ inch		PROJECTION:	
				SHEET 1 OF 1	

V2-1
LCA
1/26/11

D1002362.ctb LIGO_AOS_D0900623_Faraday Isolator Beam Dump Mount, PART PDM REV: X-005, DRAWING PDM REV: X-008

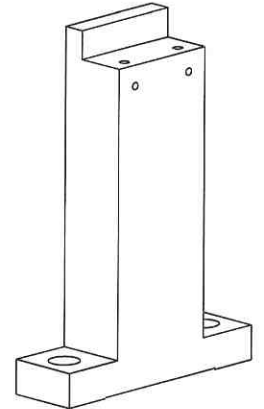
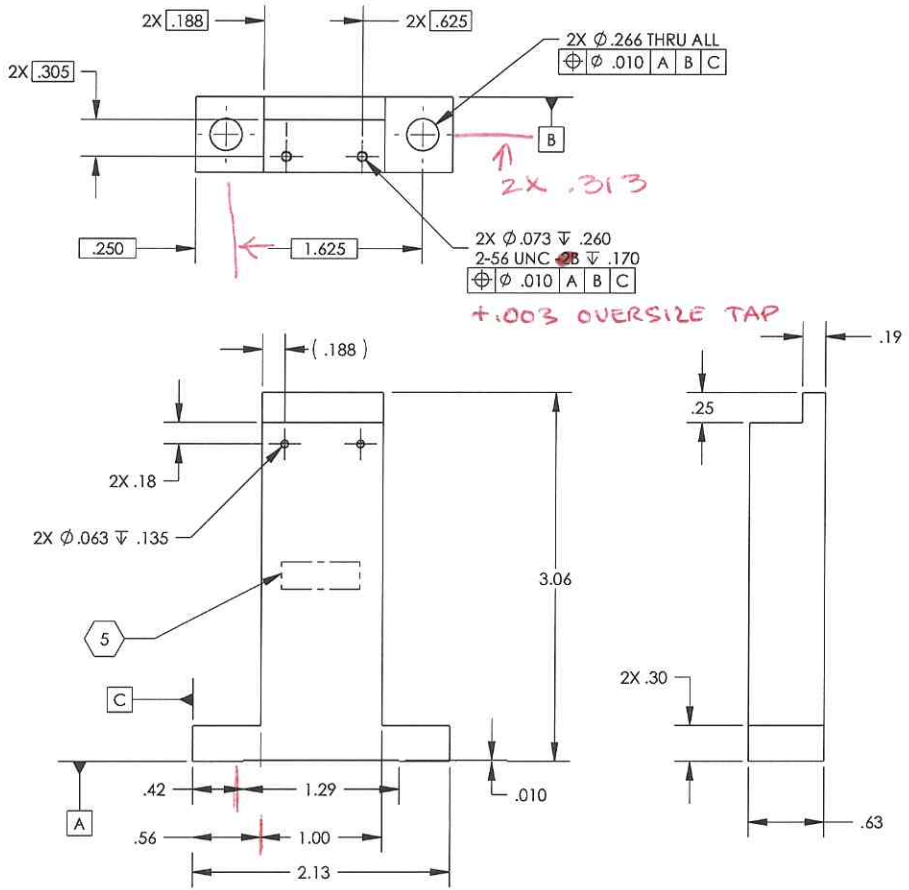
8 7 6 5 4 3

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 1/16" HIGH CHARACTERS. UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLES: DXXXXXX-YY 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	07 OCT 2010	E1000563	



DIMENSIONS ARE IN		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
XX	± .02	1. INTERPRET DRAWING PER ASME Y14.5-1994.		SYSTEM	ADVANCED LIGO	DESIGNER	FARADAY ISOLATOR BEAM DUMP MOUNT
XXX	± .010	2. REMOVE ALL SHARP EDGES, R.02 MIN.		SUB-SYSTEM	AOS	DRAFTER	
ANGULAR	± .5°	3. DO NOT SCALE FROM DRAWING.		MATERIAL	6061-T6 Al	CHECKER	
		4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE, AND FREE OF SULFUR, SILICONE, AND CHLORINE.		FINISH	63 μinch	APPROVAL	
				NEXT ASSY	D1002364	SCALE	1:1
						PROJECTION	1
						SHEET	1 OF 1

v2.2
LCA
2/23/11

v2.1
LCA
1/26/11

8 7 6 5 4 3 2 1

