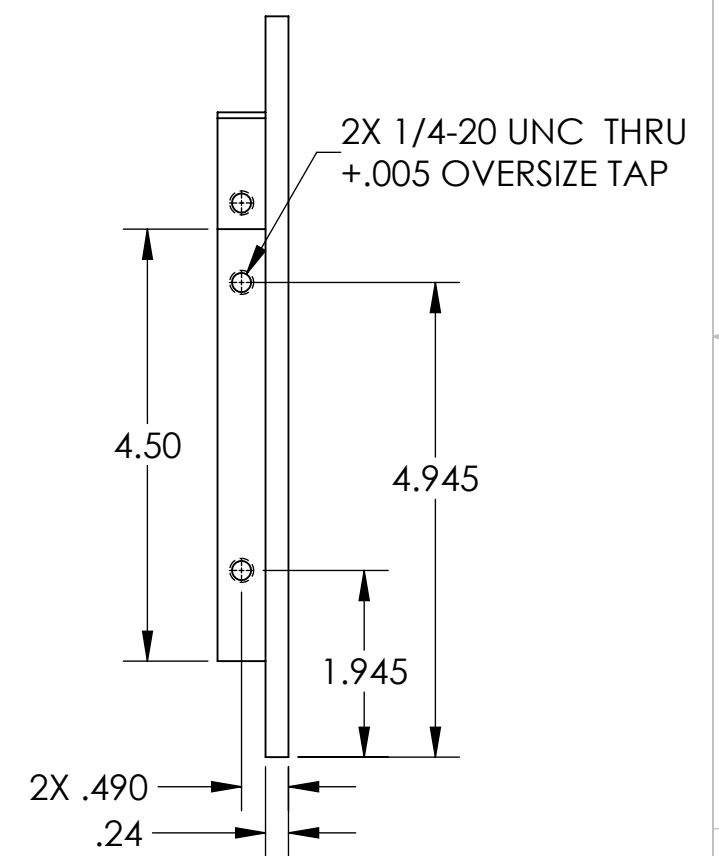
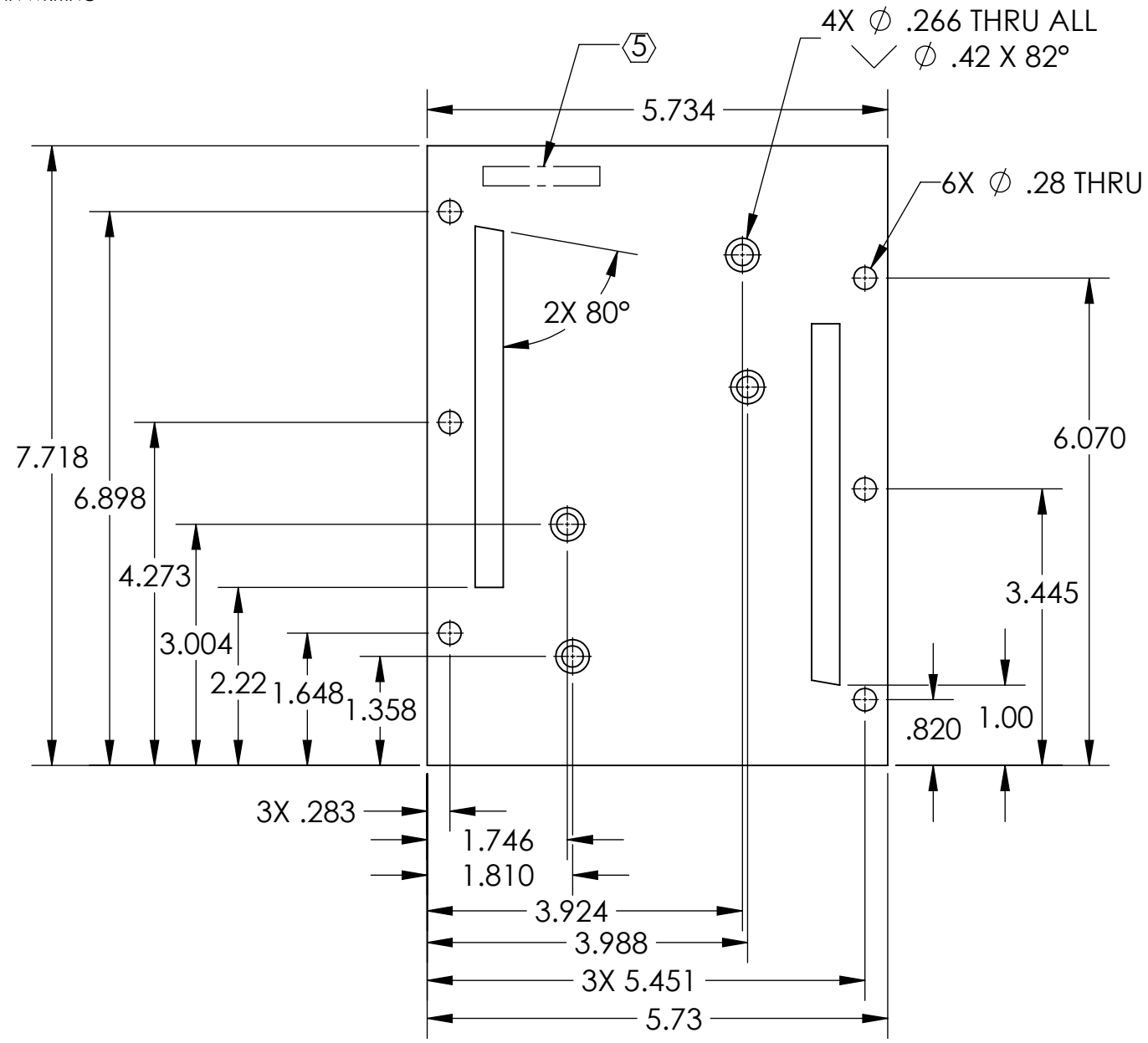
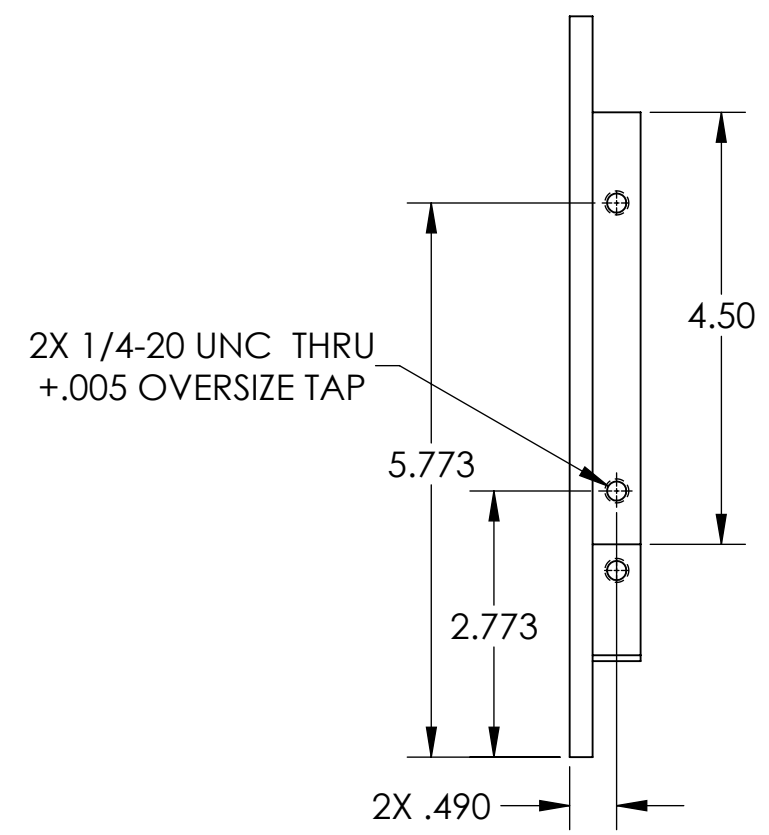
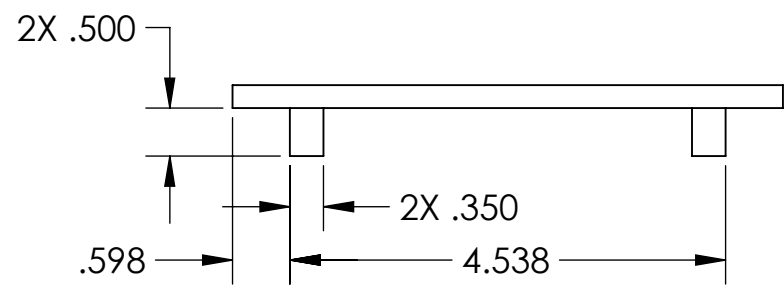


NOTES CONTINUED:

- 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE AND CHLORINE, PER LIGO SPECIFICATION E0900237.
- 5. SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" 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 = 0.530 LB.
- 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364.
- 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 OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING BY LIGO LABORATORY. REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 SETP 2011	E1100836	
v2	28 MAR 2012	E1100836	



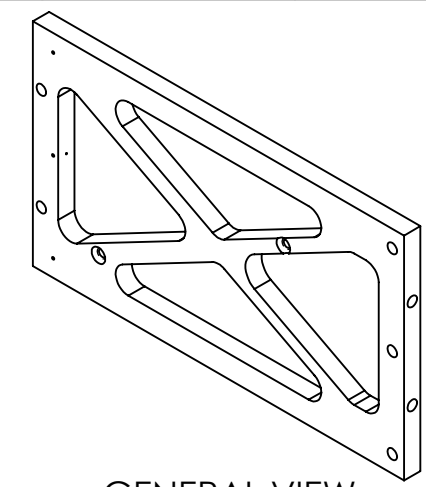
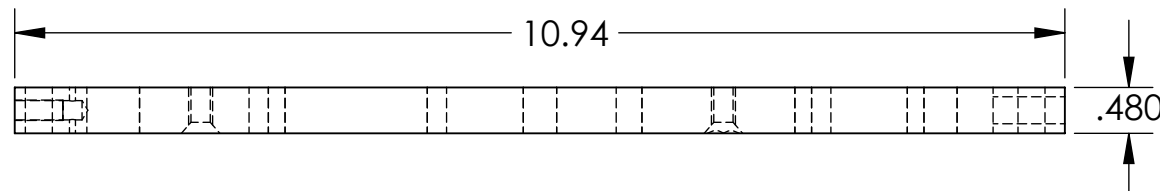
D1101600, PART PDM REV: X-027, DRAWING PDM REV: X-024

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .015 .XXX ± .005 ANGULAR ± 1.0°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005-.015. ON ALL EDGES AND HOLES. 3. DO NOT SCALE FROM DRAWING.		aLIGO AOS, HAM SCRAPER BAFFLE TOP	
MATERIAL		FINISH		NEXT ASSY		DESIGNER	
6061-T6 Al		63 μinch		D1101599		M.HILLARD 16 Aug. 2011	
				SYSTEM		SUB-SYSTEM	
				ADVANCED LIGO		AOS	
				DRAPER		M.HILLARD 10 Sept. 2011	
				CHECKER		10 Sept. 2011	
				APPROVAL		10 Sept. 2011	
				SCALE: 1:2		PROJECTION:	
				SIZE DWG. NO.		REV.	
				B D1101600		v2	
				SHEET 1 OF 1			

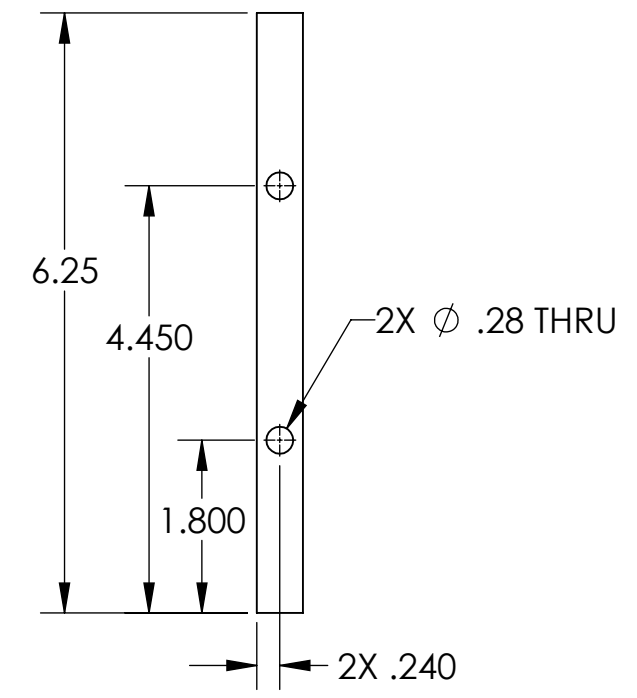
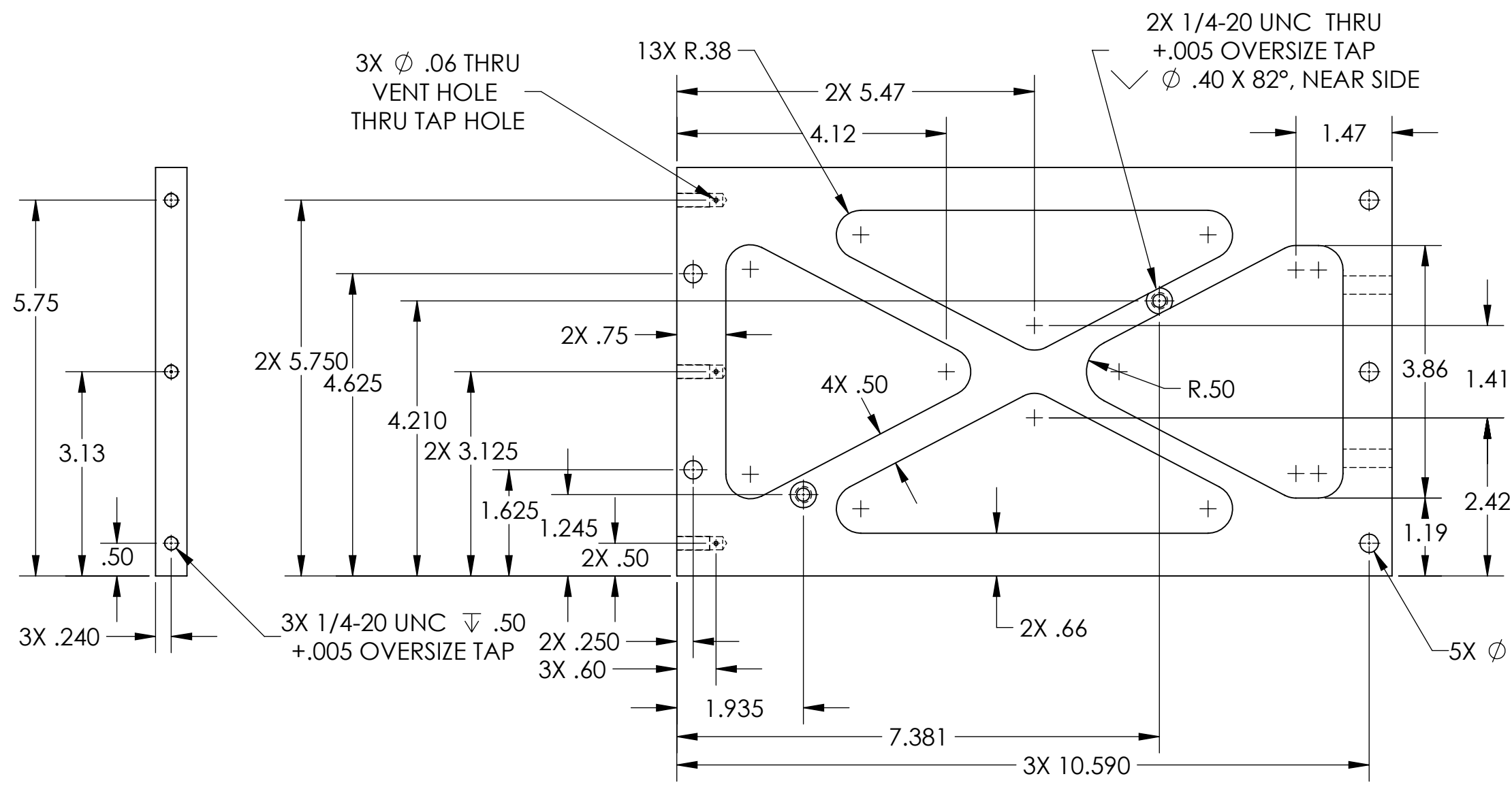
NOTES CONTINUED:

- 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE AND CHLORINE, PER LIGO SPECIFICATION E0900237.
- 5. SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" 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 = 0.680 LB.
- 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364.
- 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 OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING BY LIGO LABORATORY. REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	10 SETP 2011	E1100836	E1100837
v2	28 MAR 2012		



GENERAL VIEW FOR REFERENCE ONLY NO SCALE



D1101602, PART PDM REV: X-022, DRAWING PDM REV: X-011

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .015 .XXX ± .005 ANGULAR ± .5°				CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		aLIGO AOS, HAM SCRAPER BAFFLE, SUPPORT WALL	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005-.015, ON ALL EDGES AND HOLES. 3. DO NOT SCALE FROM DRAWING.				SYSTEM: ADVANCED LIGO SUB-SYSTEM: AOS		DESIGNER: M.HILLARD 16 Aug. 2011 DRAFTER: TQ. NGUYEN 14 MAR 2012 CHECKER: L. AUSTIN APPROVAL: M. SMITH	
MATERIAL: 6061-T6 Al FINISH: 63 μinch				NEXT ASSY: D1101599		SIZE DWG. NO. B D1101602 SCALE: 1:2 PROJECTION: SHEET 1 OF 1	

NOTES CONTINUED:

5. SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK (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.
 EXAMPLE: DXXXXXX-VY, TYPE-XX,
 S/N XXX
 DO NOT APPLY MARK ON SUPER #8 SIDE.

6. APPROXIMATE WEIGHT = 3.619 LBS.

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

8. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364.

9. SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM SCRATCHES OR GOUGES.

10. CAD FILE D1101605 MUST BE USED TO GENERATE ELLIPSE CURVE AND BEVEL ON OTHER SIDE OF SUPER #8 FINISH.

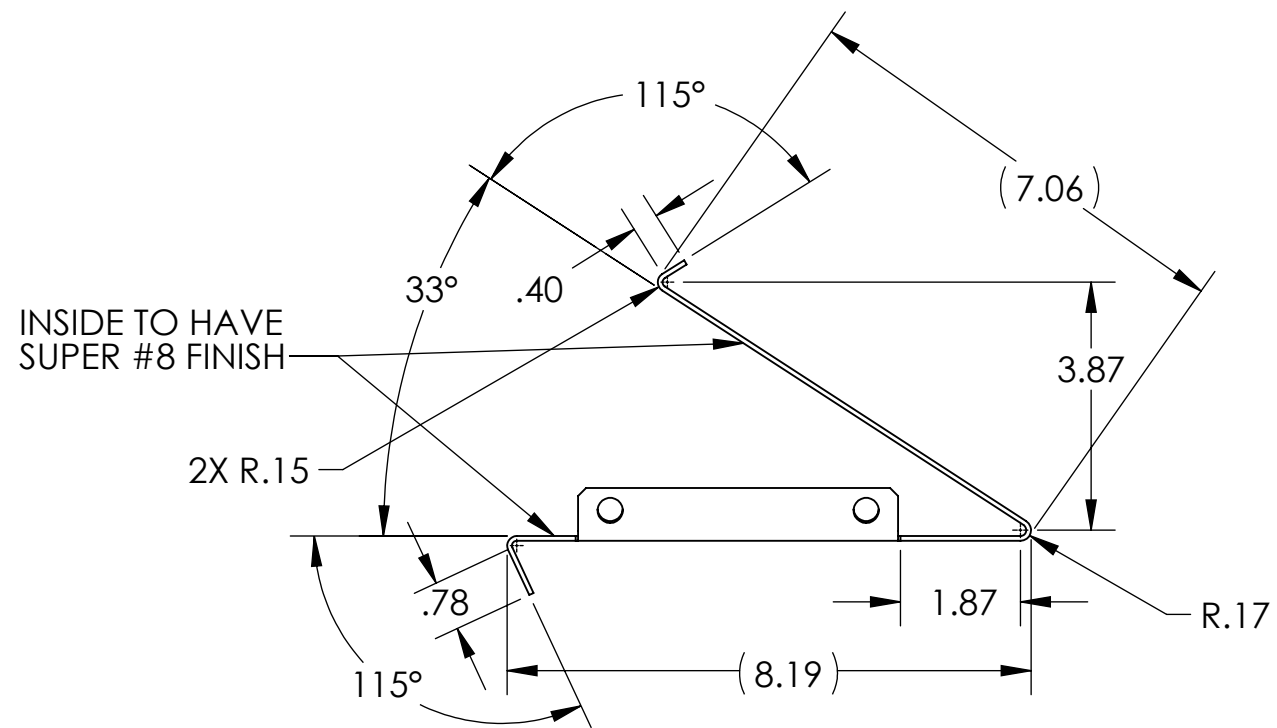
11. PART TO BE OXIDIZED PER LIGO SPEC E1100842.

INSIDE TO HAVE SUPER #8 FINISH

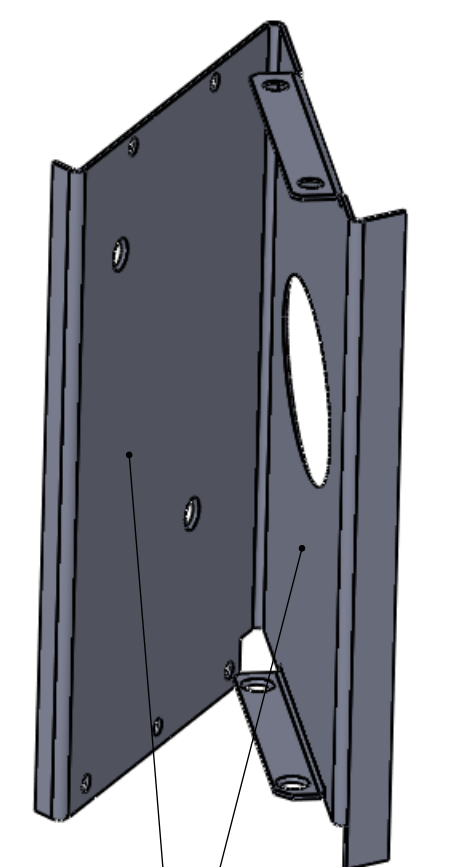
2X R.15

SEE NOTE 10

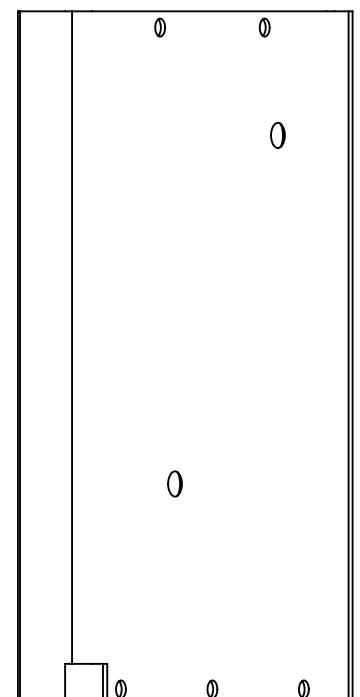
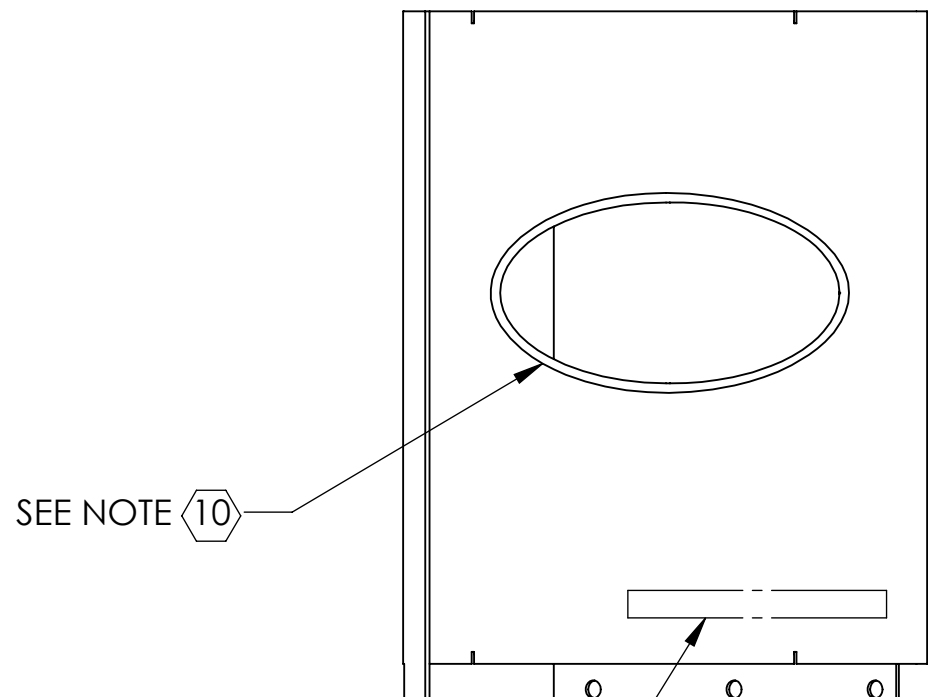
5 NEARSIDE



REV.	DATE	DCN #	DRAWING TREE #
v1	13 SET 2011	E1100836	
v2	26 MAR 2012	E1100836	



SUPER #8 SIDE



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± .02
 .XXX ± .010
 ANGULAR ± .5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS. NO BURRS
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 14 GAUGE 304 SSSL FINISH SUPER #8 11

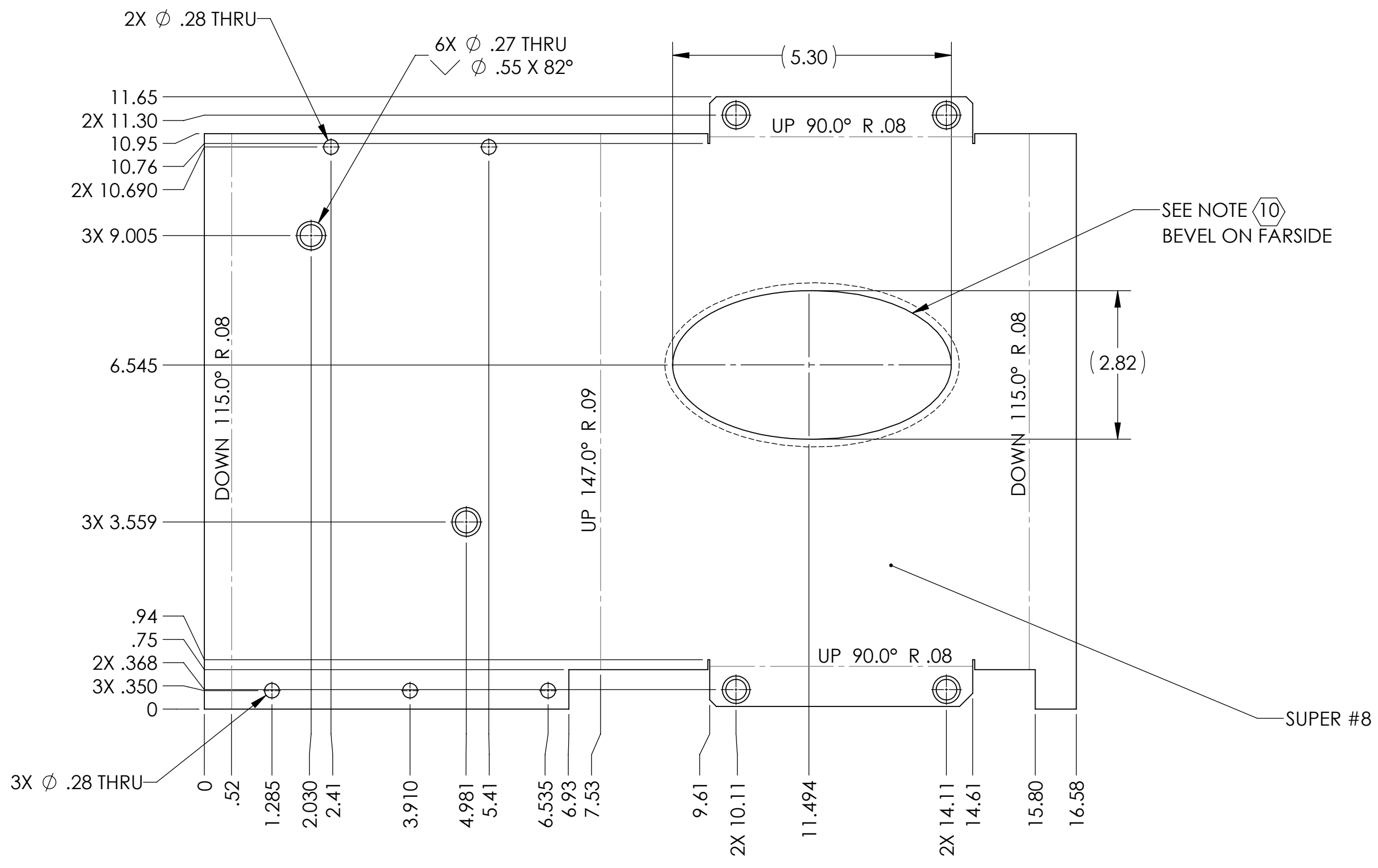
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
 NEXT ASSY D1101599

PART NAME
ALIGO AOS, HAM SCRAPER BAFFLE SKIN

DESIGNER	M.HILLARD	16 Aug. 2011	SIZE	DWG. NO.	REV.
DRAFTER	M.HILLARD	10 SETP 2011	B	D1101605	v2
CHECKER	L. AUSTIN	10 Sept. 2011			
APPROVAL	M. SMITH		SCALE: 1:3	PROJECTION:	SHEET 1 OF 2

D1101605, PART PDM REV: X-047, DRAWING PDM REV: X-039



LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE	DWG. NO.	REV.
B	D1101605	v2
SCALE: 1:2	PROJECTION:	SHEET 2 OF 2

- NOTES CONTINUED:**
- 5. SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR 'TYPE' 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. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
 - 6. APPROXIMATE WEIGHT = 8.731 LBS.
 - 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364
 - 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
 - 9. ALL MATERIAL IS TO BE VIRGIN MATERIAL (I.E. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364.
 - 10. SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM SCRATCHES OR GOUGES.

REV.	DATE	DCN #	DRAWING TREE #
v1	26 AUG 2011	E1100836	
v2	26 MAR 2012		

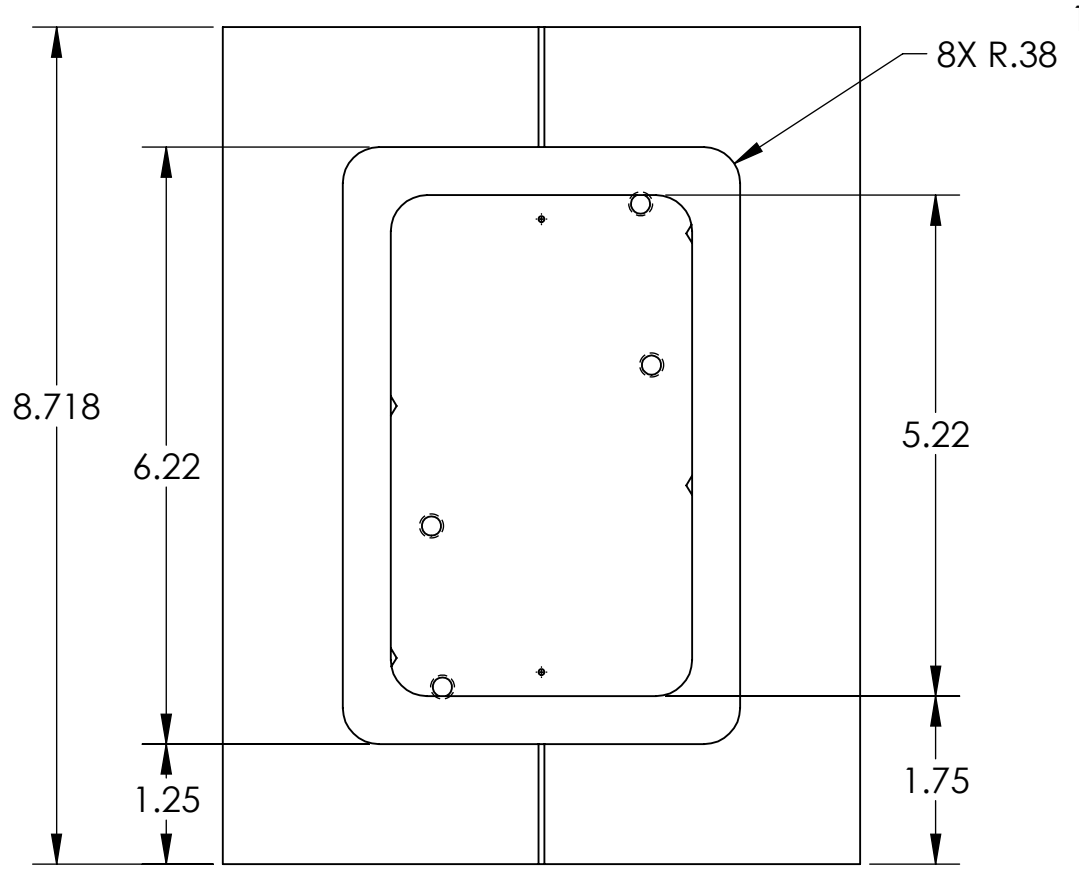
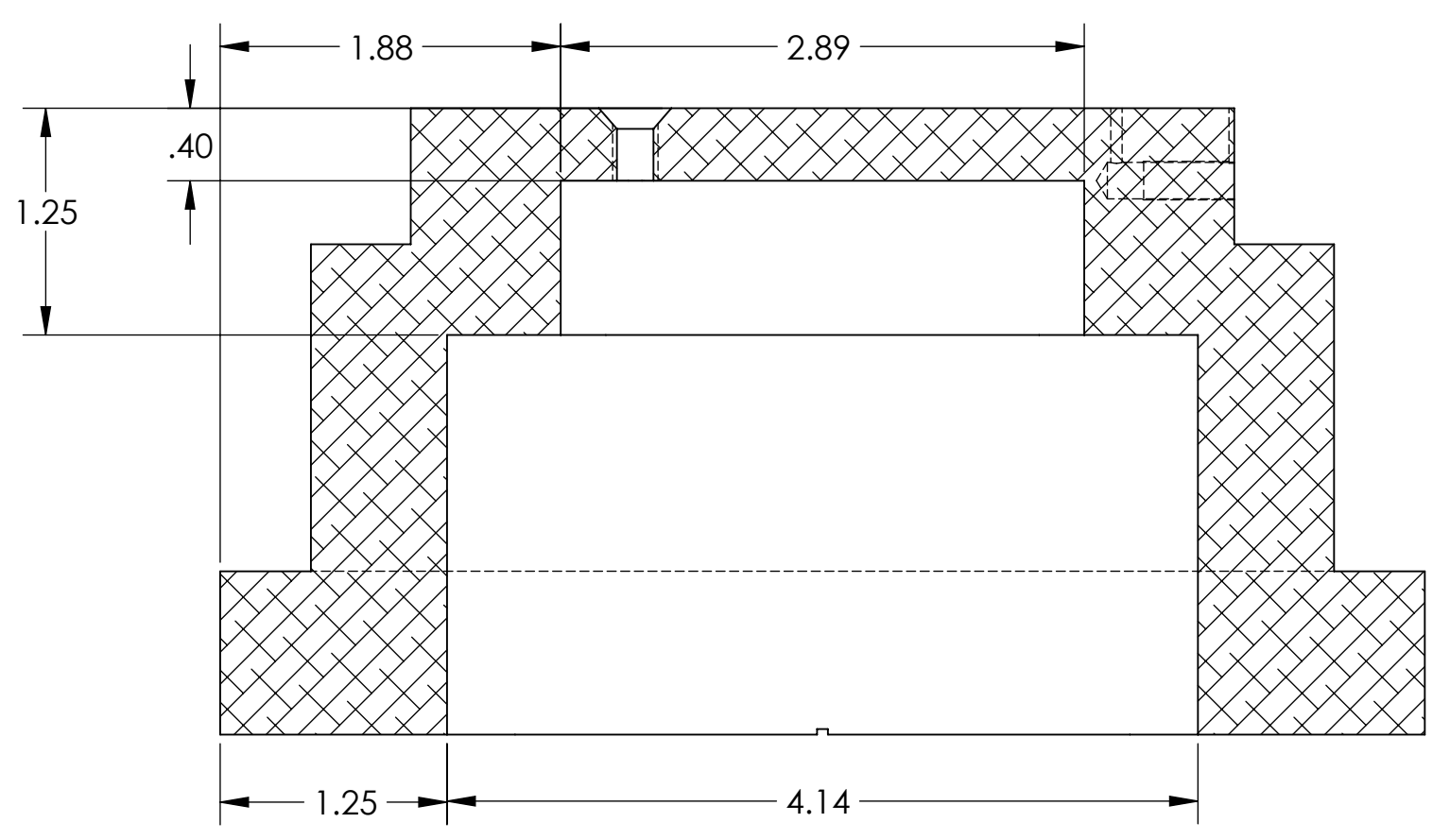
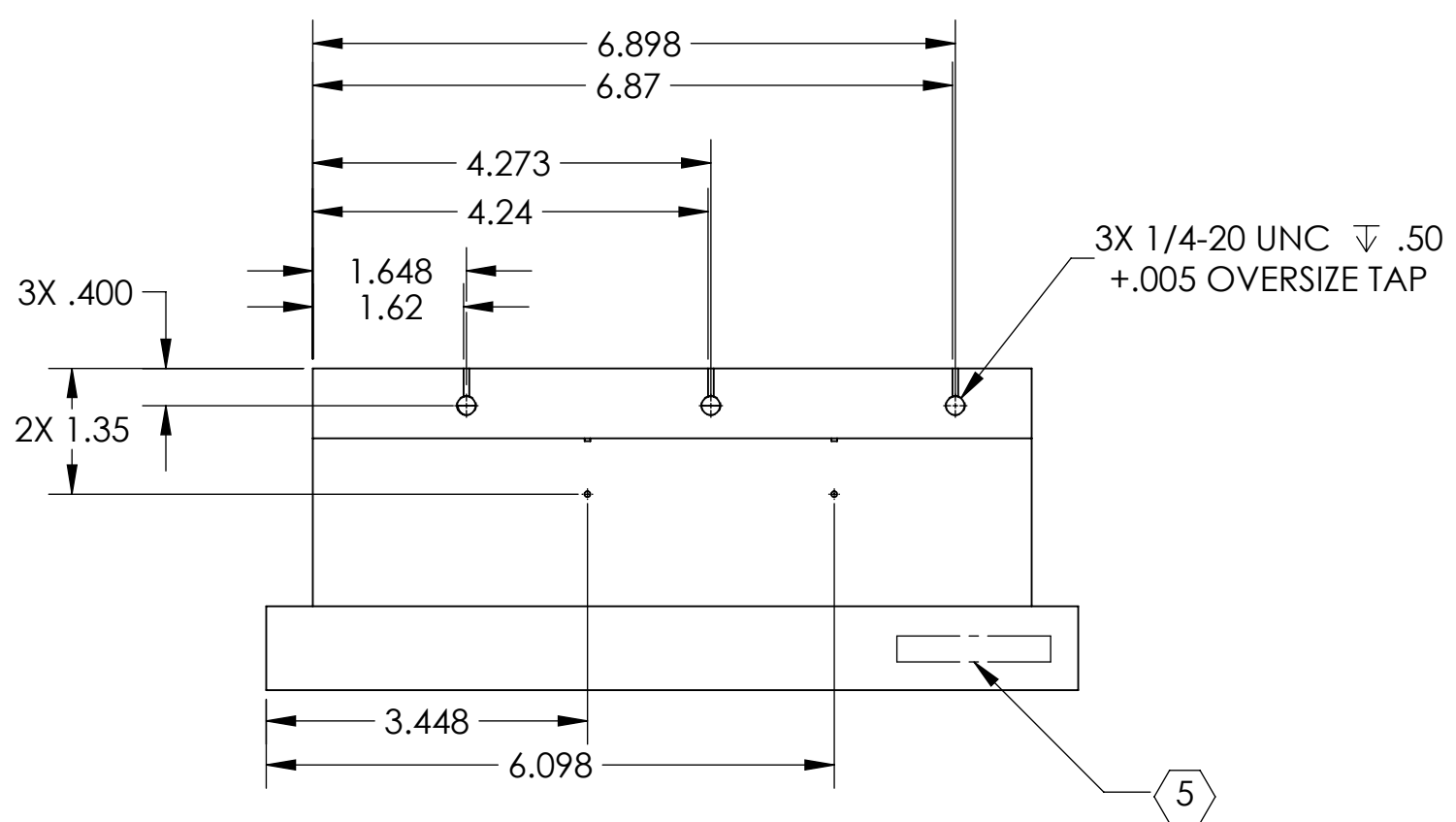
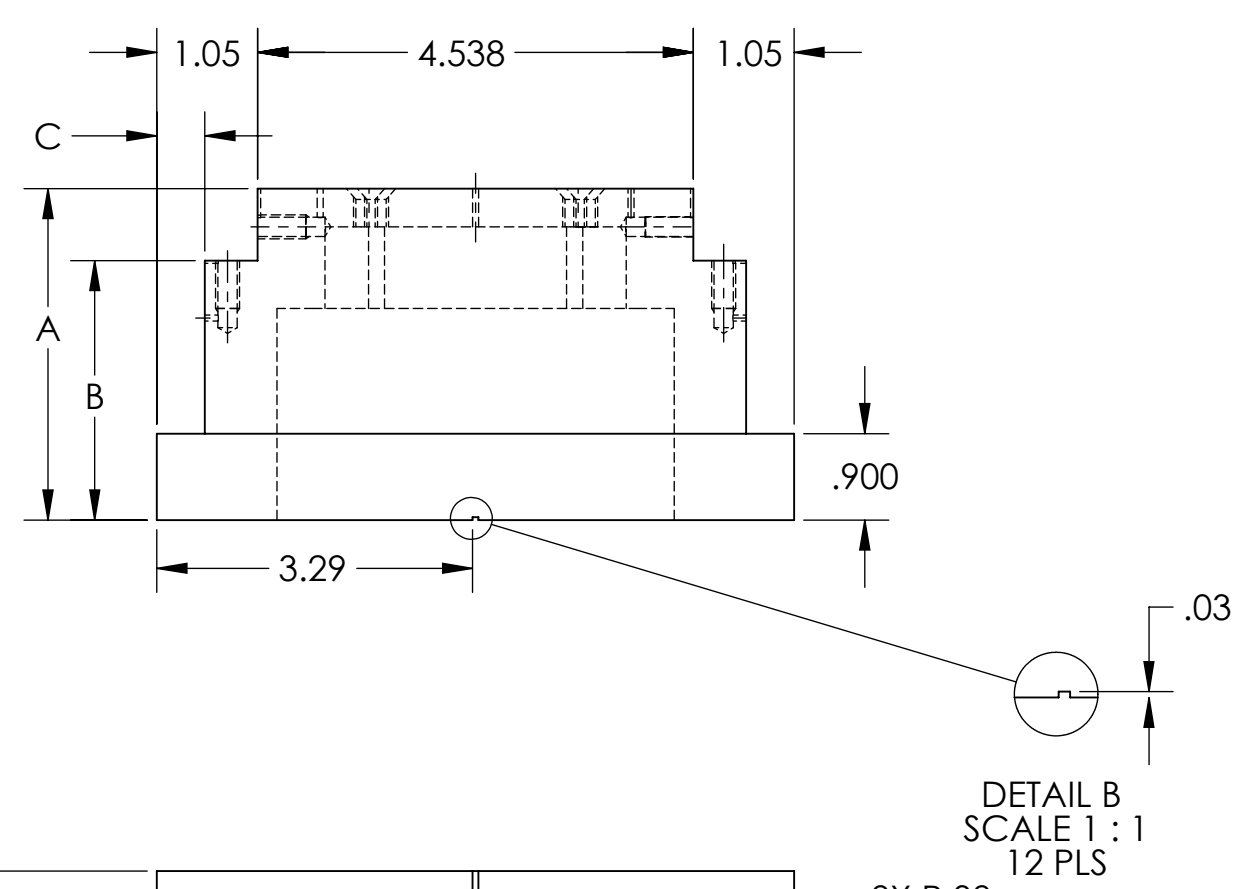
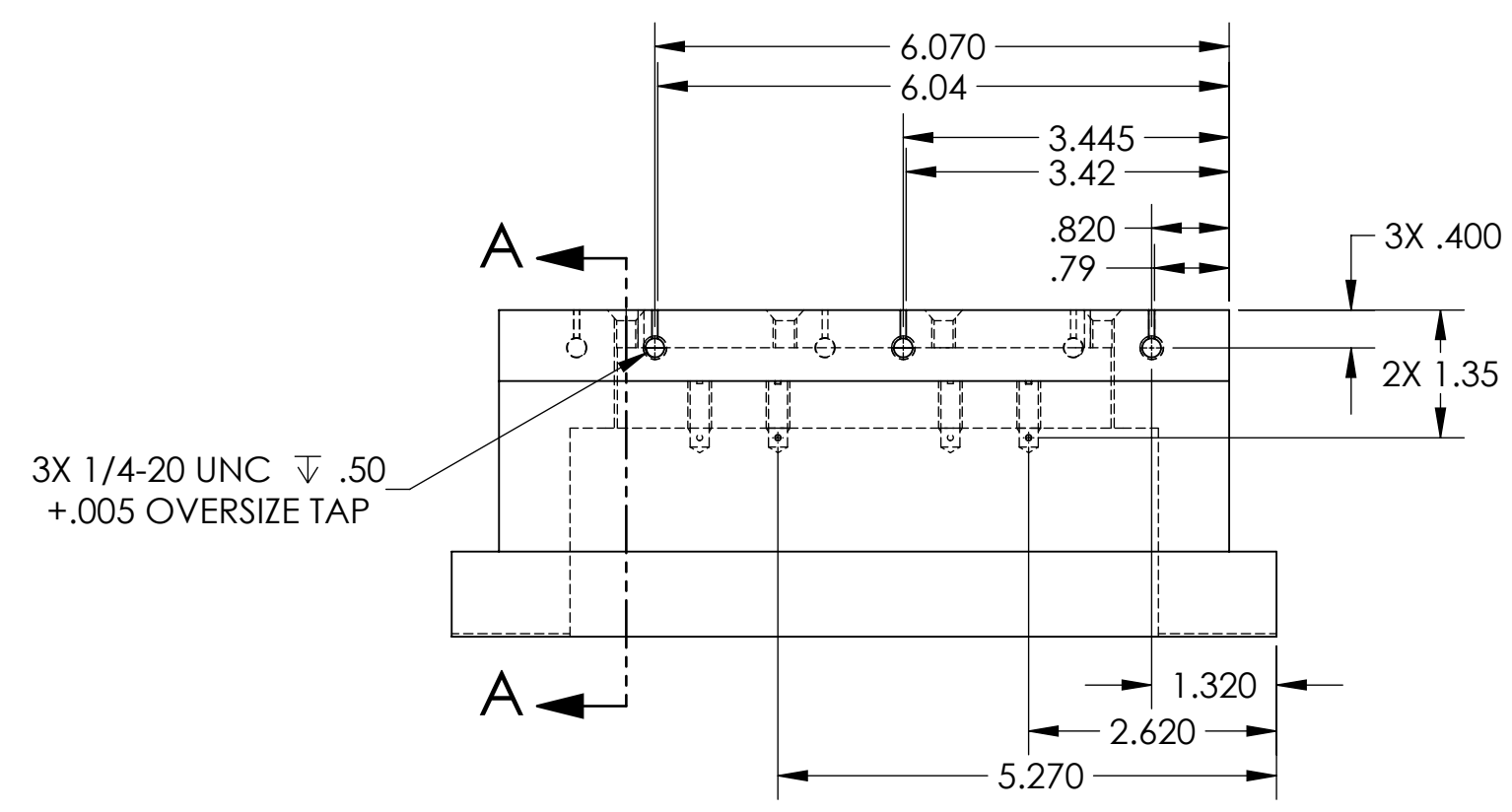
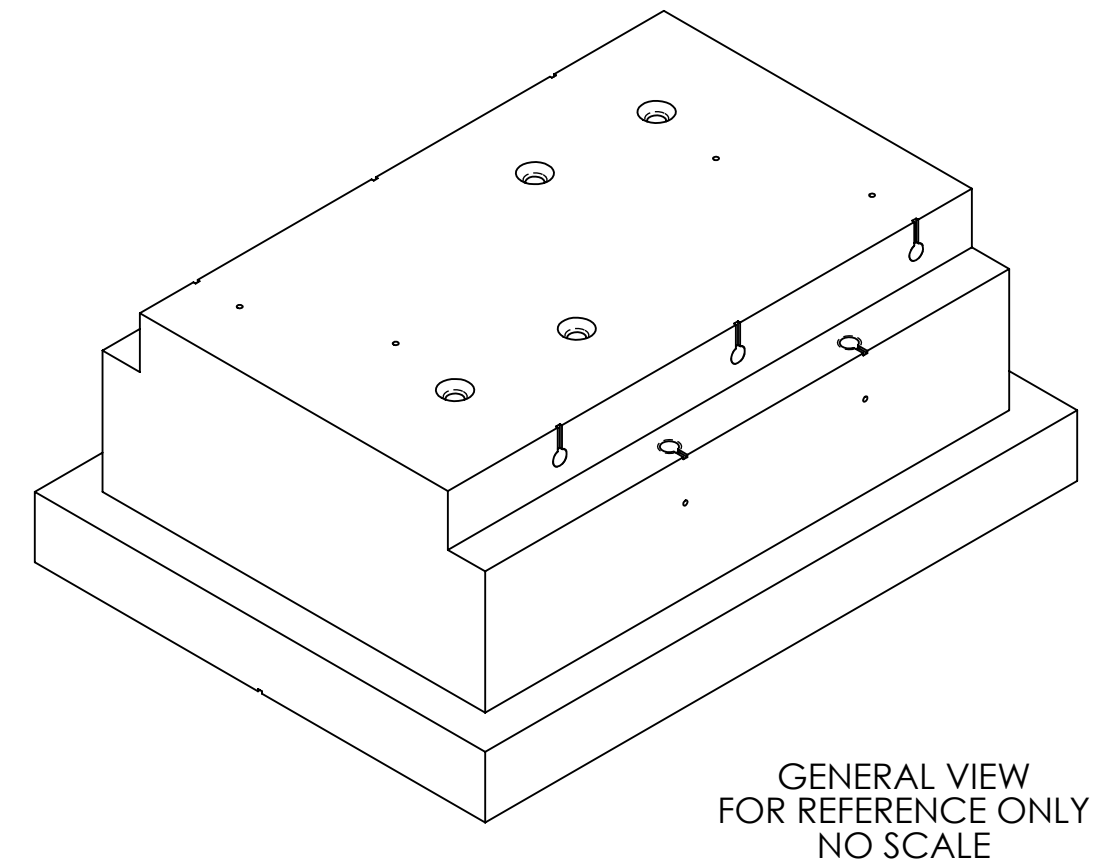
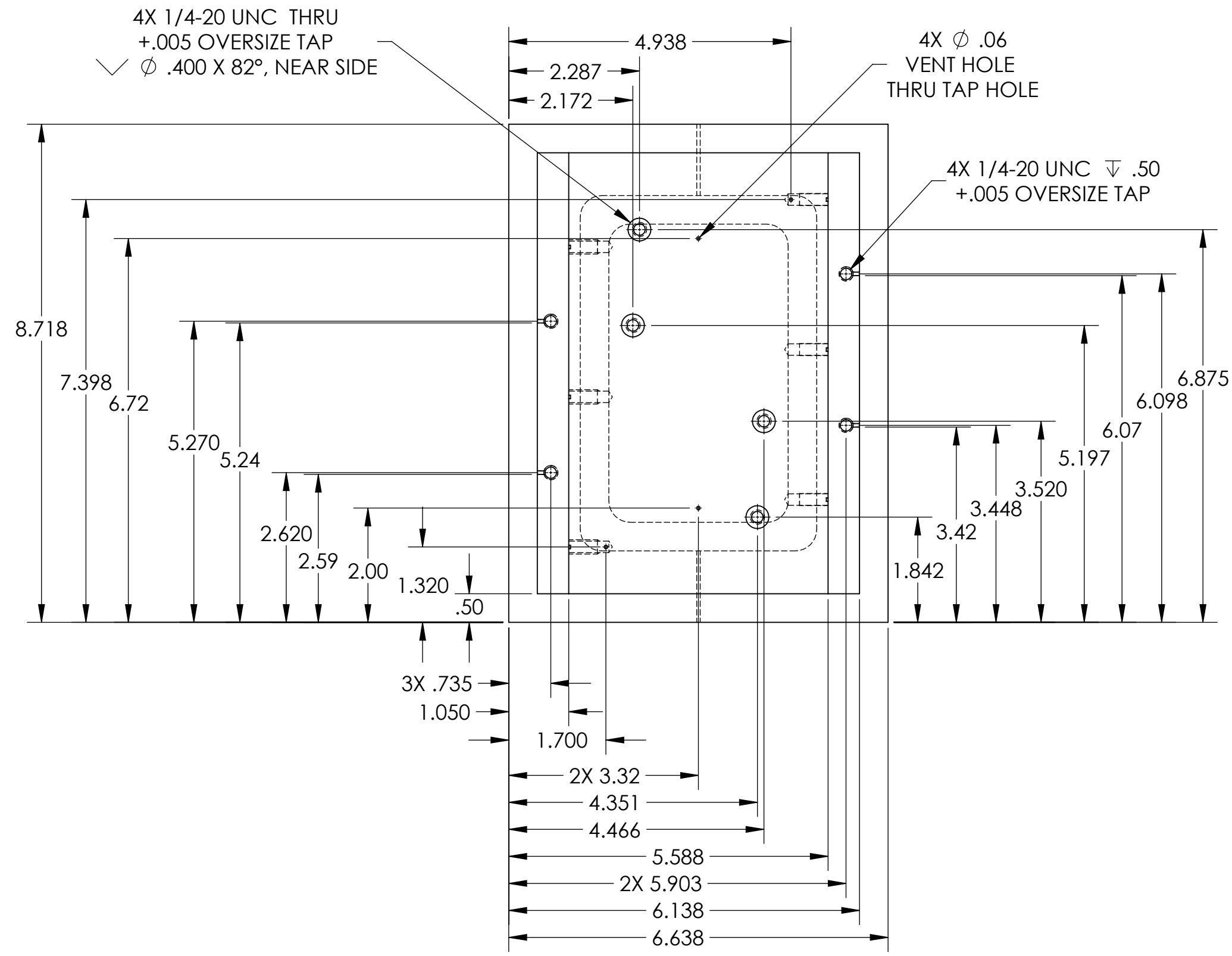


TABLE 1			
PART NUMBER	A	B	C
D1101608-1	3.453	2.703	.500
D1101608-2	2.666	1.916	.500
D1101608-3	1.650	.900	0
D1101608-4	3.288	2.538	.500
D1101608-5	3.004	2.254	.500

DIMENSIONS ARE IN INCHES		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME αLIGO, HAM SCRAPER BAFFLE BASE	
TOLERANCES: .XX ± .015 .XXX ± .005		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
ANGULAR ± .5°		MATERIAL 6061-T6 Al		FINISH 63 μinch		NEXT ASSY D1101599	
				DESIGNER M.HILLARD		16 Aug. 2011	
				DRAFTER M.HILLARD		13 Sept. 2011	
				CHECKER -		13 Sept. 2011	
				APPROVAL -		13 Sept. 2011	
				SIZE D		DWG. NO. D1101608	
				SCALE: 1:2		PROJECTION:	
						SHEET 1 OF 1	

D1101608 PART PDM REV: X-344 DRAWING PDM REV: X-026