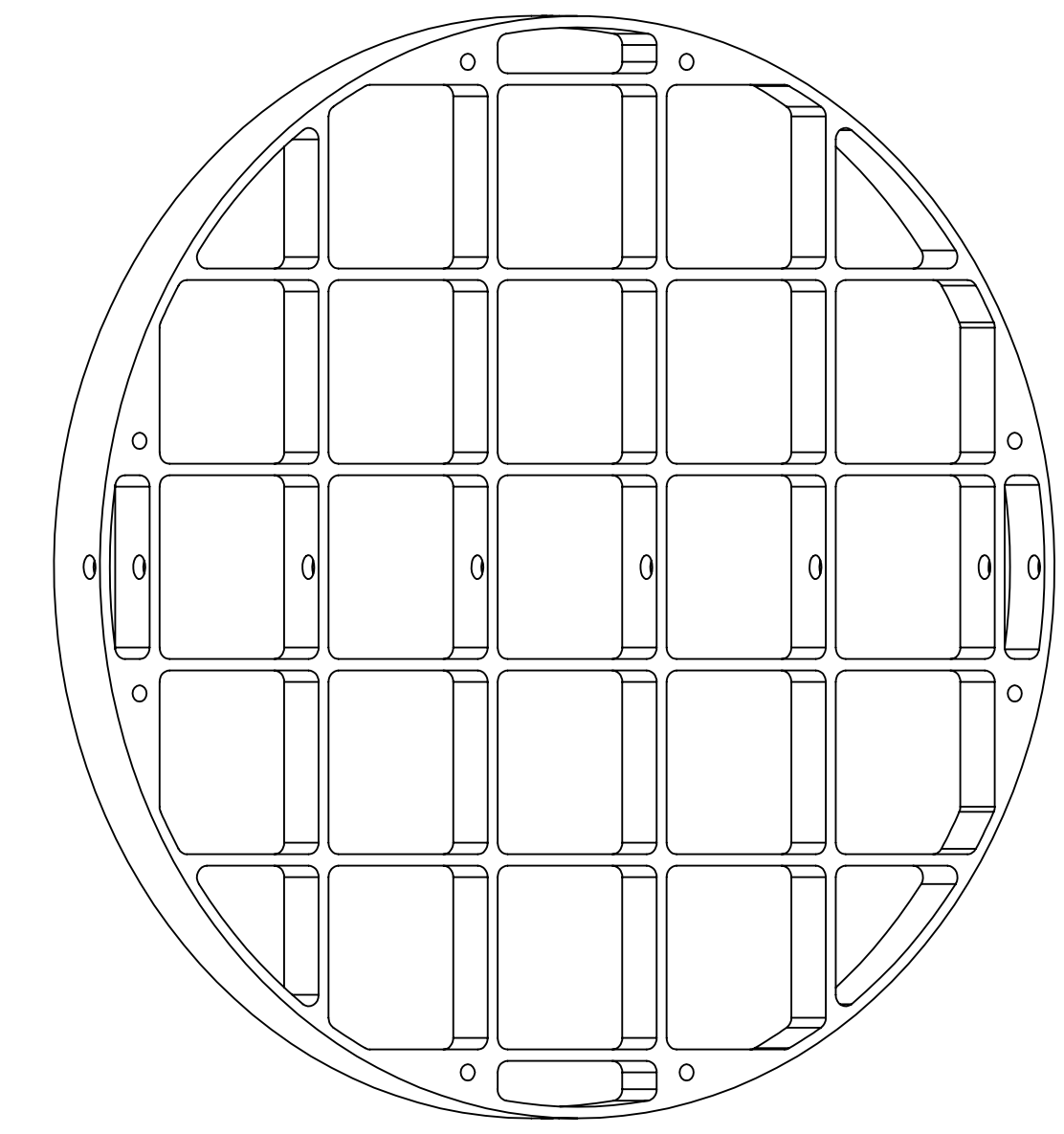
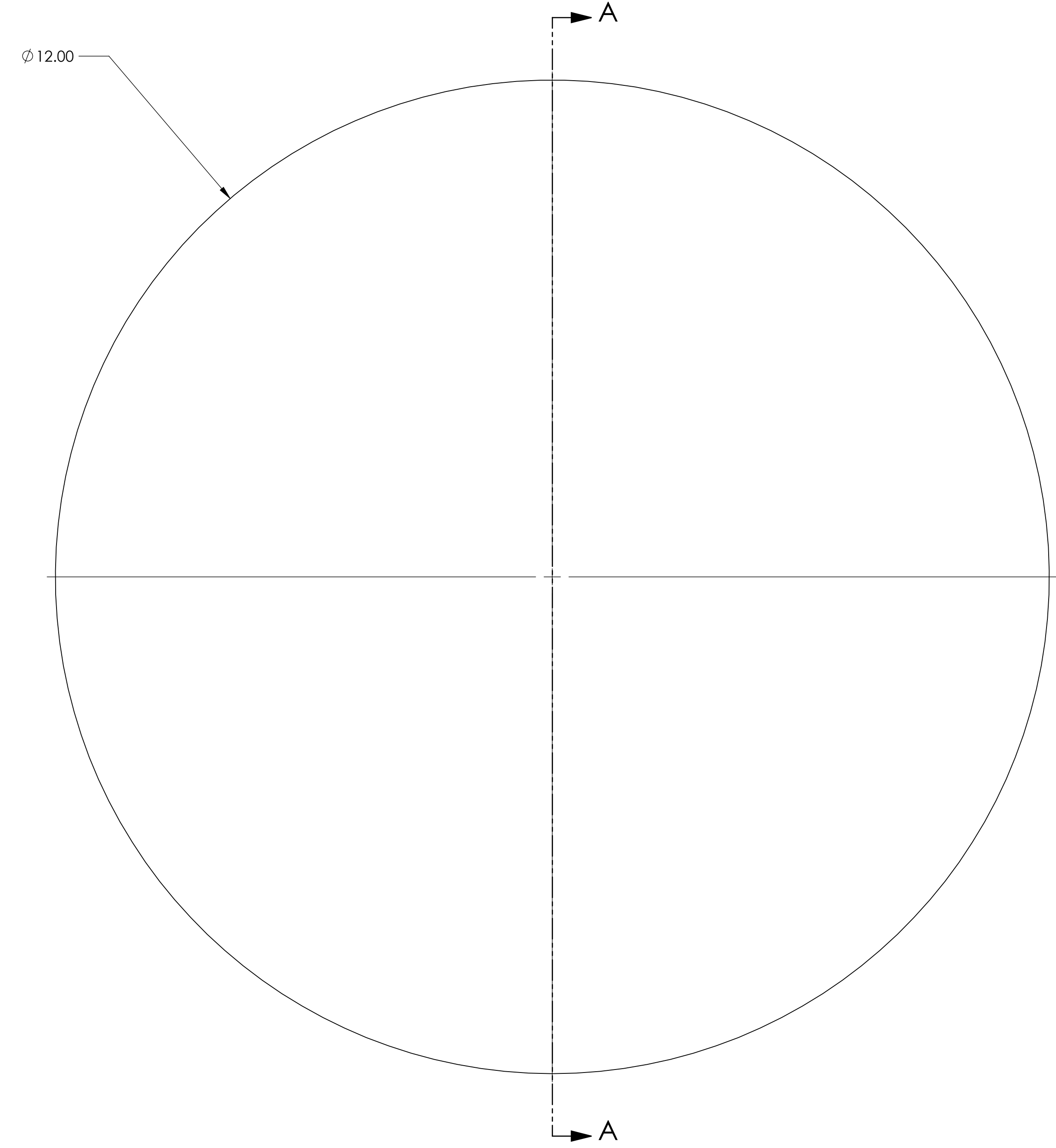
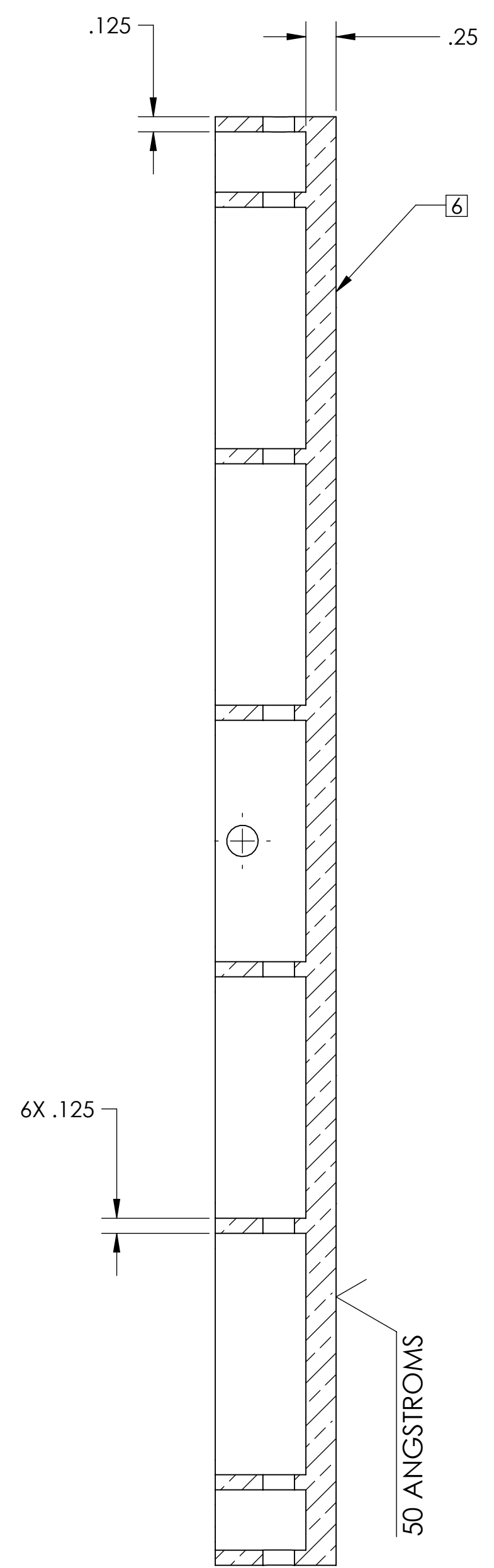


- NOTES CONTINUED:**
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.  
EXAMPLE (PART): 001-v1  
EXAMPLE (TAG): DXXXXX-VY, TYPE-XX, QTY: TBD
  - 6. (LAMBDA/10) FINISH FOR 10.6 μm LASER AND 99% REFLECTIVITY, 10-5 SCRATCH DIG PROTECTED Au COATING.
  - 7. APPROXIMATE WEIGHT = 13.78 LB.
  - 8. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
  - 9. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
  - 10. ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO EMHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4
  - 11. ALL HELI-COIL INSERTS TO BE INSTALLED BY LIGO PERSONNEL, AFTER DELIVERY OF FINISHED PARTS. USE NITRONIC 60 THREADED INSERTS.

REV.	DATE	DCN #	DRAWING TREE #
v1	30-AUG-2010	-	-
-	-	-	-
-	-	-	-



SECTION A-A  
SCALE 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 ± .01 .XXX ± .005 ANGULAR ± 0.1°	MATERIAL: Copper, 110 ALLOY FINISH: 32 μinch

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

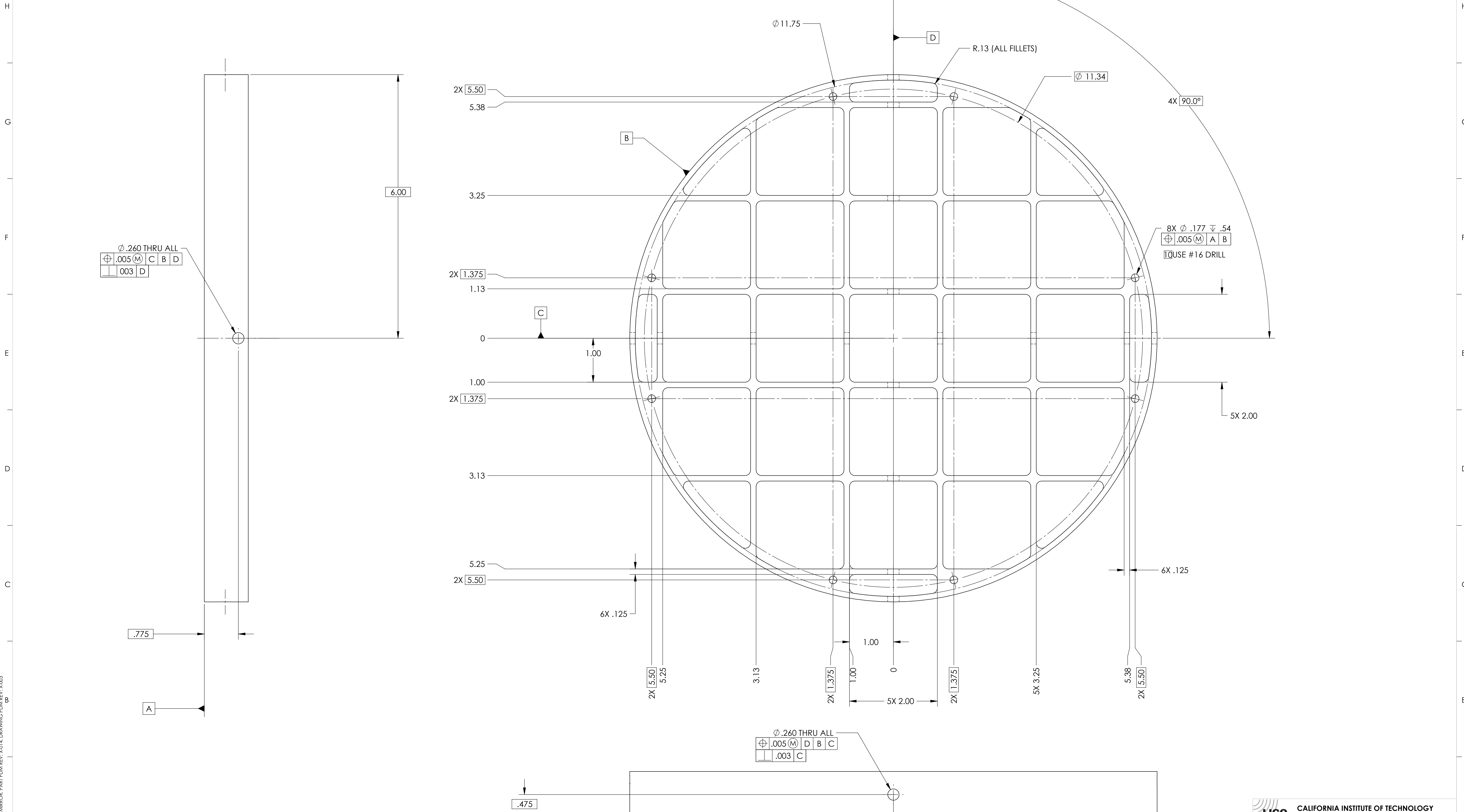
SYSTEM: ADVANCED LIGO      SUB-SYSTEM: AOS

NEXT ASSY: D1001742

PART NAME		DESIGNER		DATE		SIZE		DWG. NO.		REV.	
aLIGO TCS H2 IN-VAC MIRROR		M. JACOBSON		08 JUL 2010		D		D1001727		v1	
DRAFTER		A. COLE		30-AUG-2010							
CHECKER		M. JACOBSON		30-AUG-2010							
APPROVAL		P. WILLEMS		30-AUG-2010		SCALE: 1:2		PROJECTION:		SHEET 1 OF 2	

D1001727\_TCS H2 IN-VAC MIRROR PART PDM REV: X-014 DRAWING PDM REV: X-003

8 7 6 5 4 3 2 1



$\phi .260$  THRU ALL  
 $\pm .005$  (M) C B D  
 $\pm .003$  D

8X  $\phi .177$   $\downarrow .54$   
 $\pm .005$  (M) A B  
 USE #16 DRILL

$\phi .260$  THRU ALL  
 $\pm .005$  (M) D B C  
 $\pm .003$  C

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

SIZE	DWG. NO.	REV.
D	D1001727	v1
SCALE: 1:2	PROJECTION:	SHEET 2 OF 2

8 7 6 5 4 3 2 1

D:\001727\_ICS\12\14\CAC\_MIRROR\_PART\_PDM\REV\_X014\_DRAWING\_PDM\REV\_X003