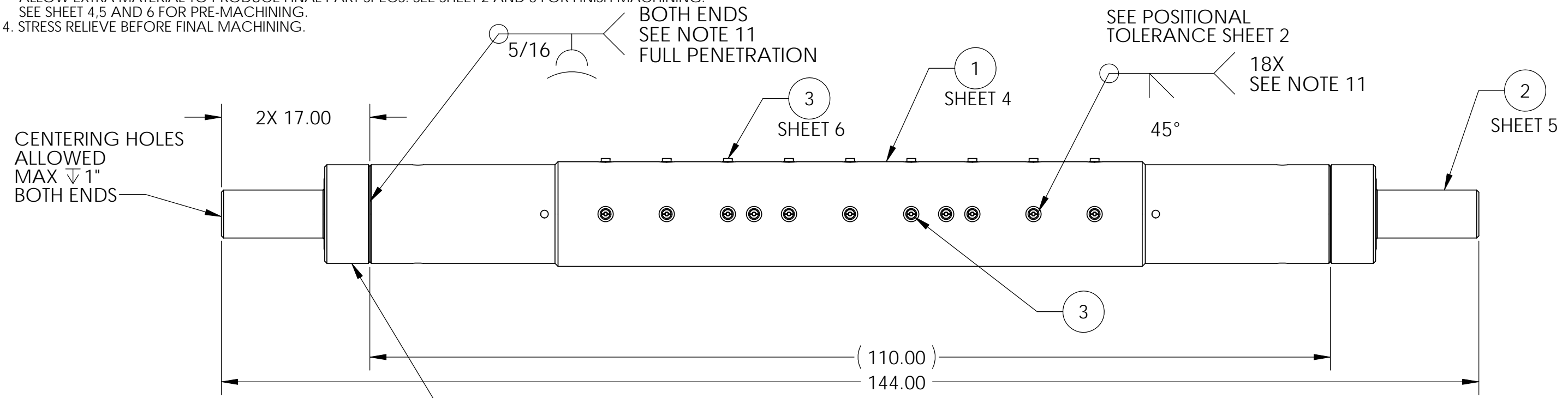


REV.	DATE	DCN #	DRAWING TREE #
v2	11 Apr. 2011	E1100015	E1100016

NOTES CONTINUED:

4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE AND CHLORINE.
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 DXXXXXXX-VY, TYPE-XX, S/N XXX.
6. APPROXIMATE WEIGHT = 466.979 LB.
7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES (INCLUDING SANDING OR SCOURING FOR MATTE FINISH) IS NOT ALLOWED. USE OF SCOTCH-BRITE OR SIMILAR PRODUCTS IS FORBIDDEN.
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 AND IN WRITING BY LIGO, REFER TO LIGO-E0900364.
10. NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. IN GENERAL WELD REPAIRS AND PRESS FIT INSERT REPAIRS ARE NEVER ACCEPTABLE. THE MATERIAL USED MUST BE VIRGIN MATERIAL. SPECIAL CIRCUMSTANCES CAN BE REVIEWED IF AND WHEN BROUGHT TO THE ATTENTION OF LIGO CONTRACTING OFFICER'S REPRESENTATIVE (COTR) THROUGH THE MATERIAL REVIEW BOARD (MRB) PROCESS, REFER TO LIGO-E09000364.
11. ALL STAINLESS STEEL WELDING DONE BY GTAW PROCESS USING TUNGSTEN WELDING ELECTRODES AND 308L WELDING ROD, SPEC. PER AWS A5.9-93.
12. ALL TAPPED HOLES TO BE .005 OVERSIZED.
13. ALL FINISH MACHINING AND TAPPED HOLES TO BE APPLIED AFTER WELDING IS COMPLETE. ALLOW EXTRA MATERIAL TO PRODUCE FINAL PART SPECS. SEE SHEET 2 AND 3 FOR FINISH MACHINING. SEE SHEET 4, 5 AND 6 FOR PRE-MACHINING.
14. STRESS RELIEVE BEFORE FINAL MACHINING.

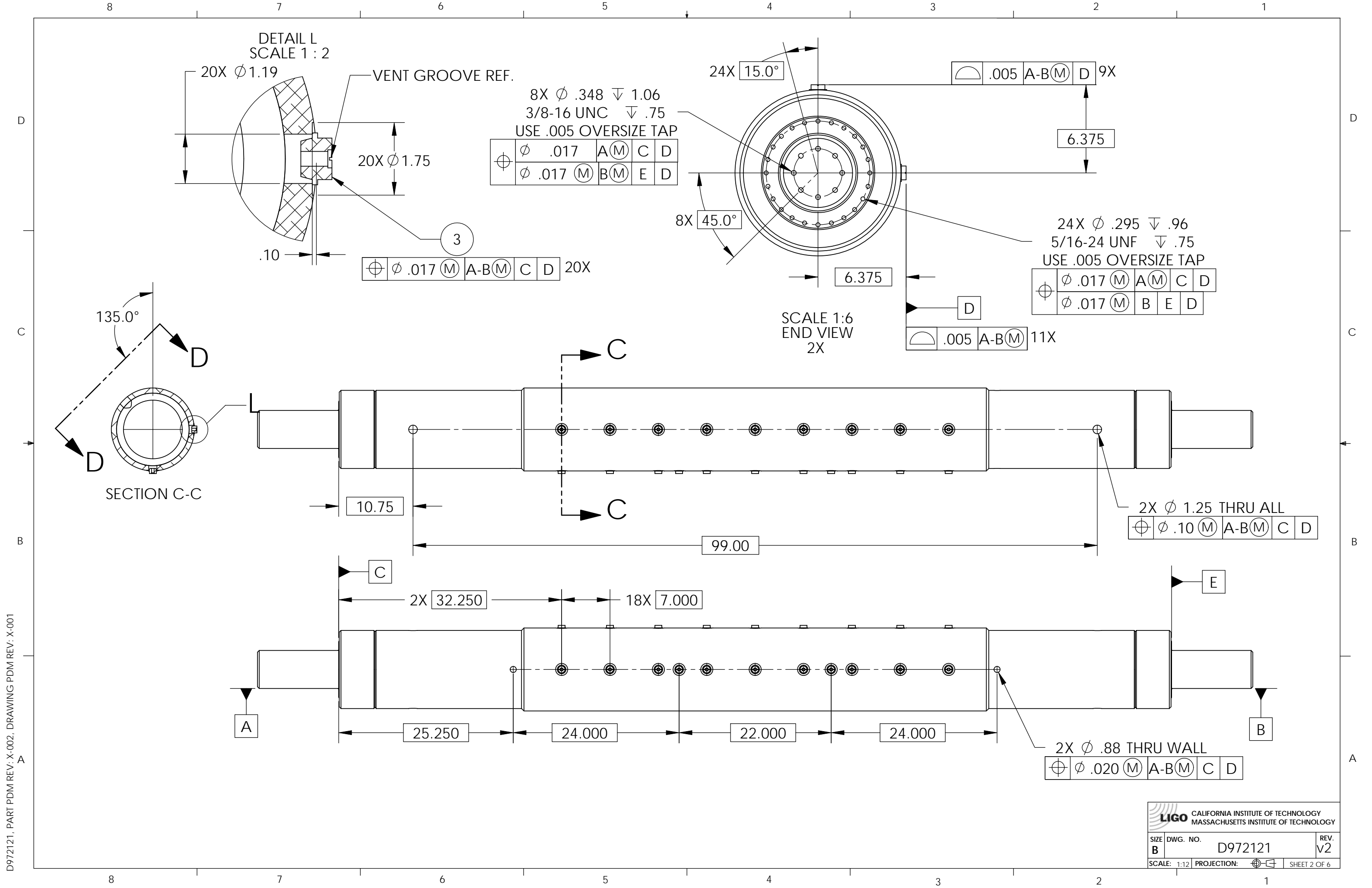


3	D972121-3	THREADED PLUG	304 SSTL	20
2	D972121-2	END CAP	304 SSTL	2
1	D972121-1	12.00 OD X .75 WALL CUT TO LENGTH	304 SSTL	1
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ

DIMENSIONS ARE IN INCHES		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
TOLERANCES: .XX ± .030 .XXX ± .010		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .03 x 45°. 3. DO NOT SCALE FROM DRAWING.		ADVANCED LIGO		BSC SUPPORT TUBE	
ANGULAR ± .5°		MATERIAL N/A		FINISH N/A μinch		NEXT ASSY D1000513	
				DESIGNER R.SMITH 28 May 1997		SIZE DWG. NO.	
				DRAFTER M.HILLARD 11 Apr. 2011		B D972121	
				CHECKER I.THOMPSON 16 June 1997		REV. v2	
				APPROVAL K.MASON 11 Apr. 2011		SCALE: 1:12 PROJECTION: SHEET 1 OF 6	

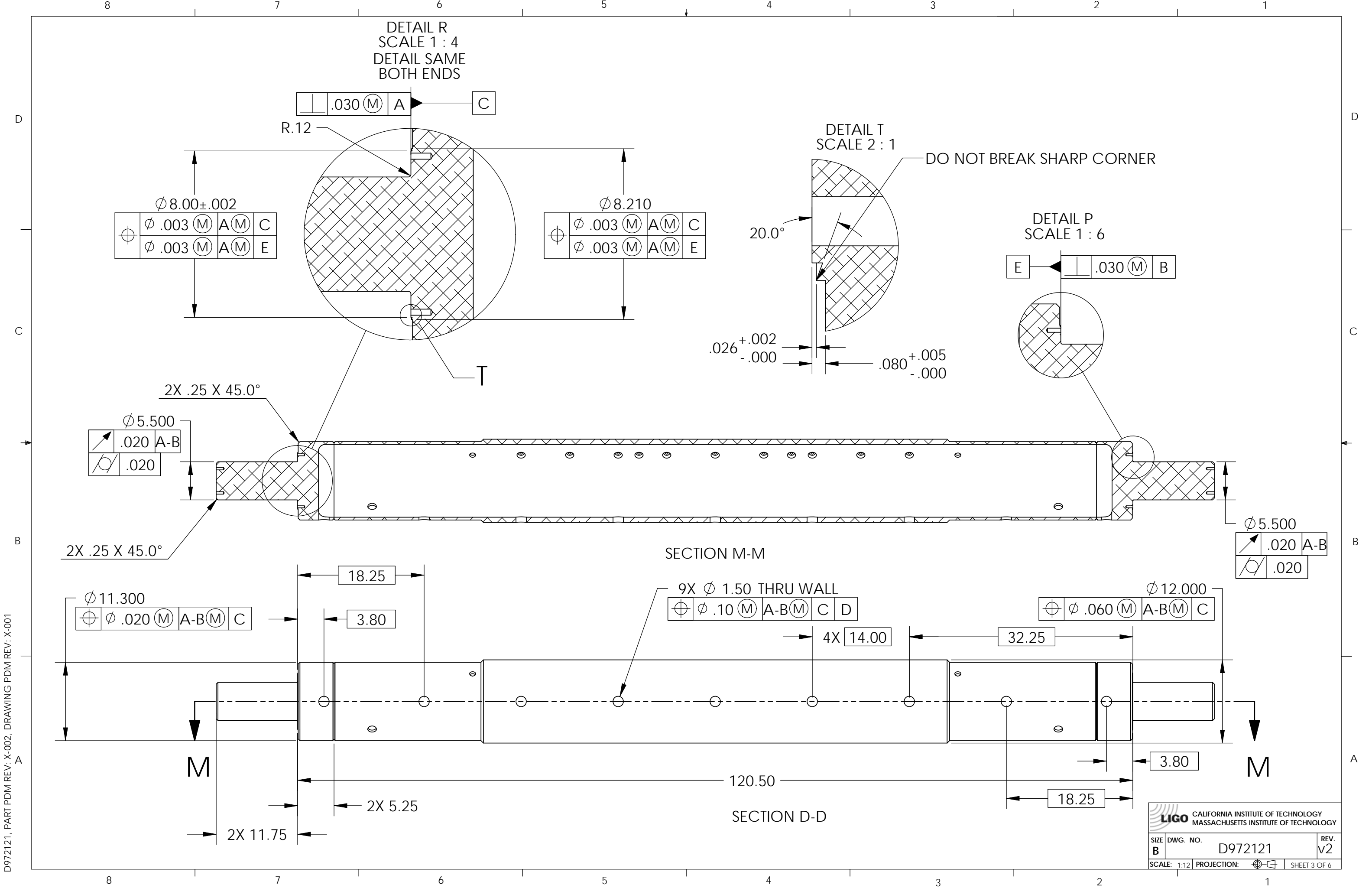
D972121, PART PDM REV: X-002, DRAWING PDM REV: X-001

D972121, PART PDM REV: X-002, DRAWING PDM REV: X-001



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

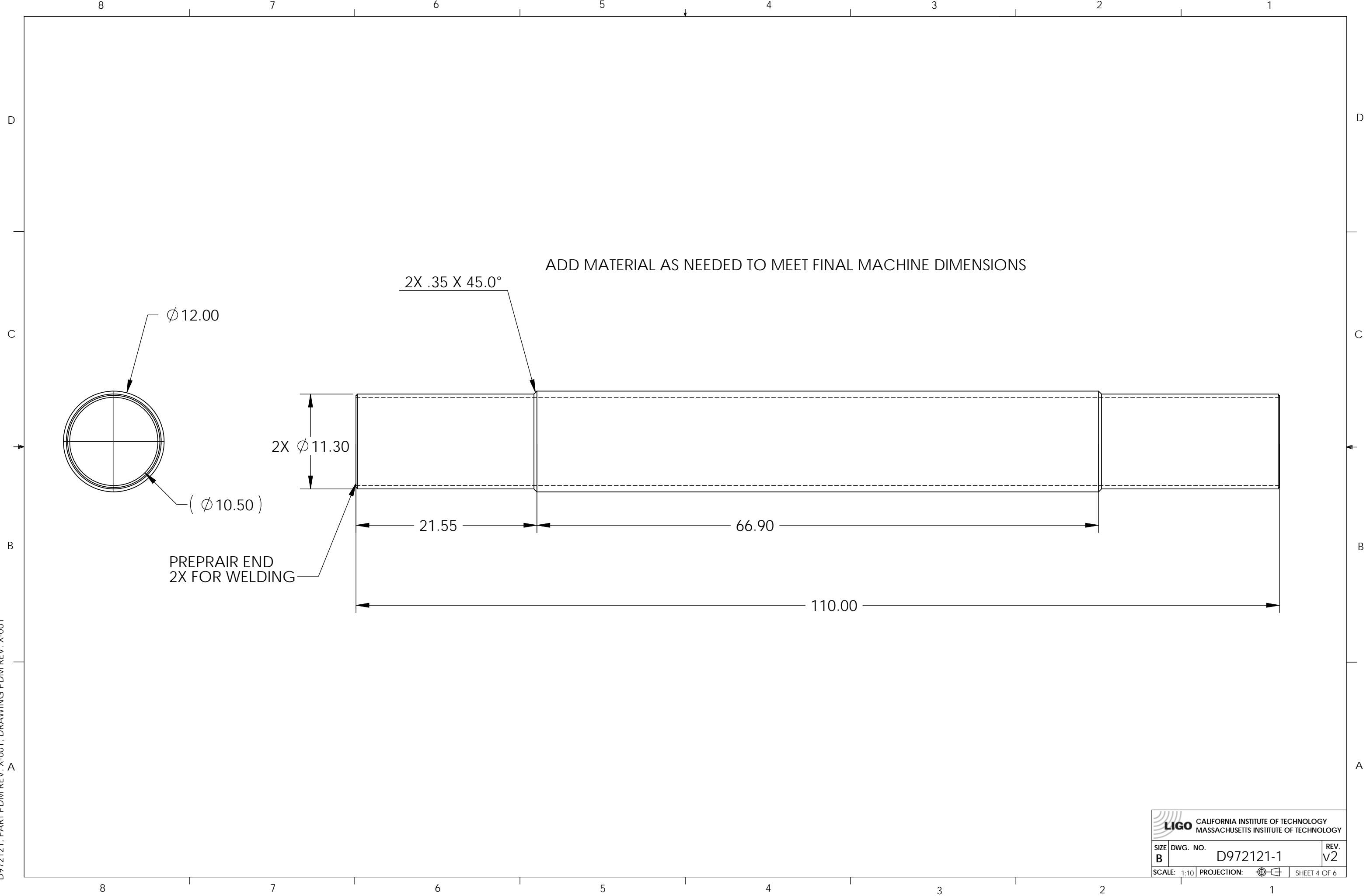
SIZE	DWG. NO.	REV.
B	D972121	V2
SCALE: 1:12	PROJECTION:	SHEET 2 OF 6





D972121, PART PDM REV: X-002, DRAWING PDM REV: X-001

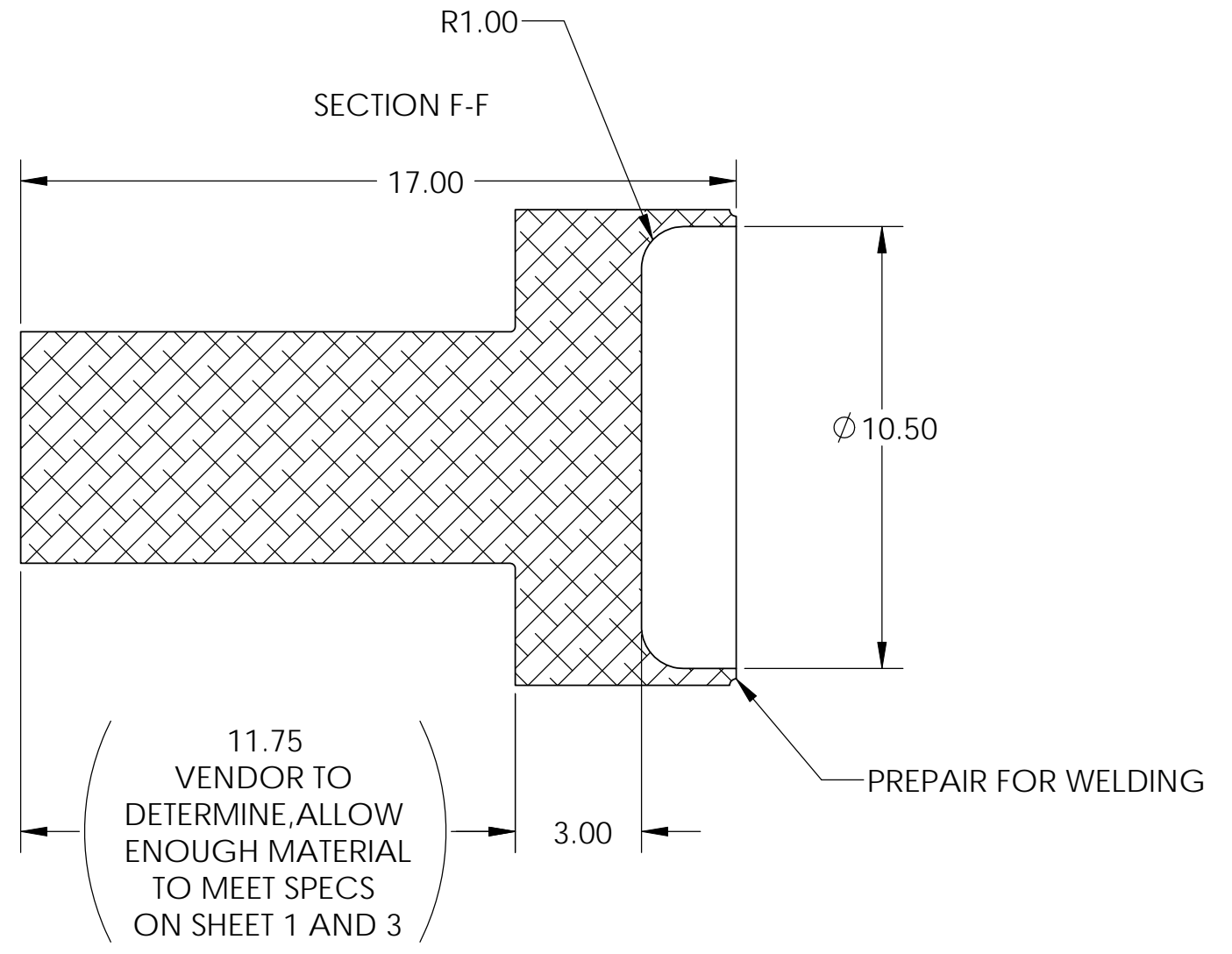
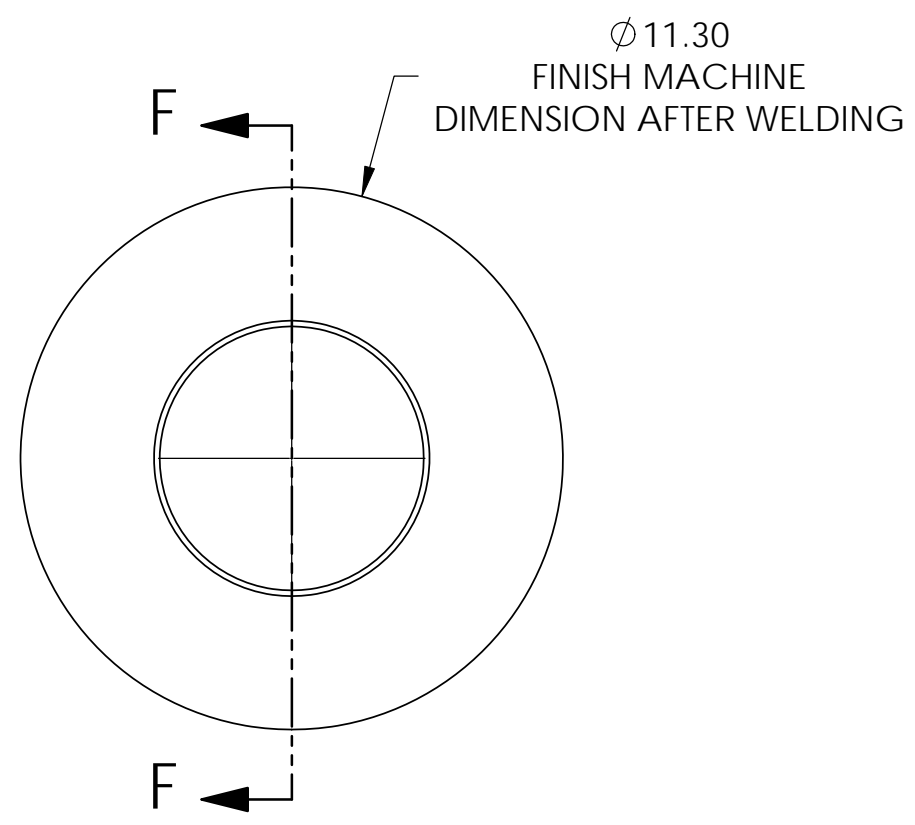
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SIZE <b>B</b>	DWG. NO. D972121
SCALE: 1:12 PROJECTION:	REV. v2
SHEET 3 OF 6	



D972121, PART PDM REV: X-001, DRAWING PDM REV: X-001



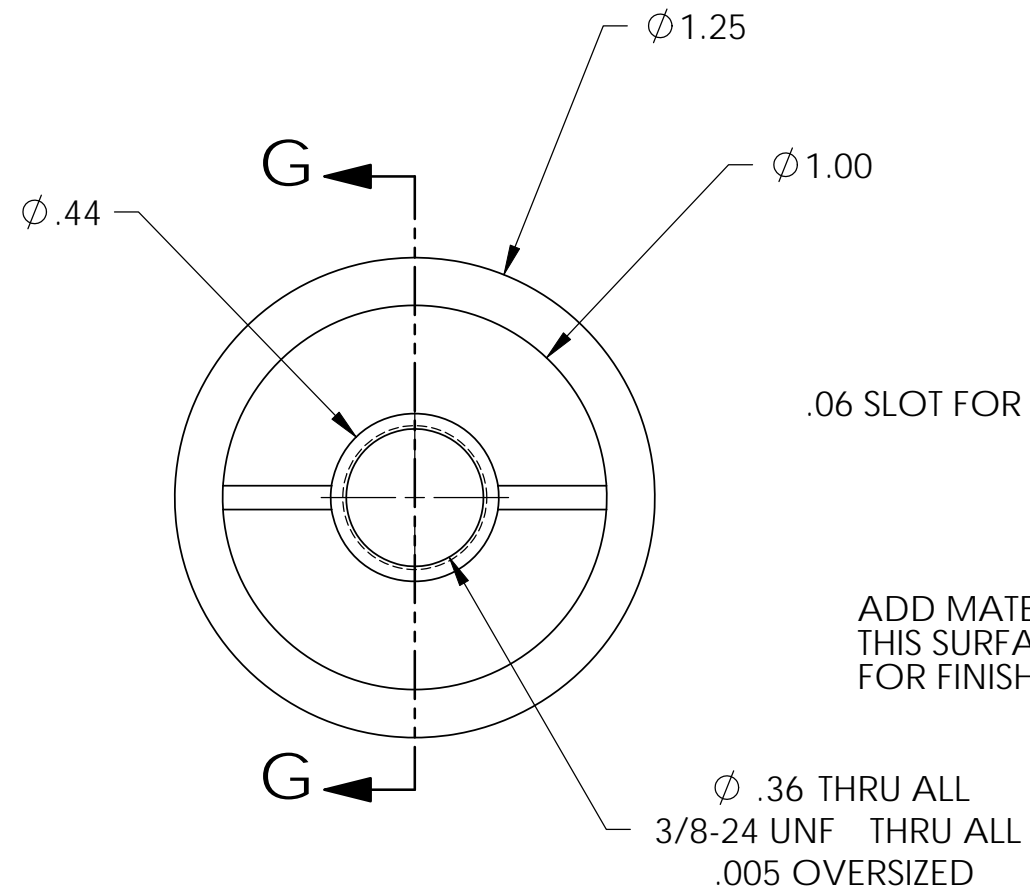
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SIZE <b>B</b>	DWG. NO. D972121-1	REV. v2
SCALE: 1:10	PROJECTION: 	SHEET 4 OF 6

D972121, PART PDM REV: X-002, DRAWING PDM REV: X-001



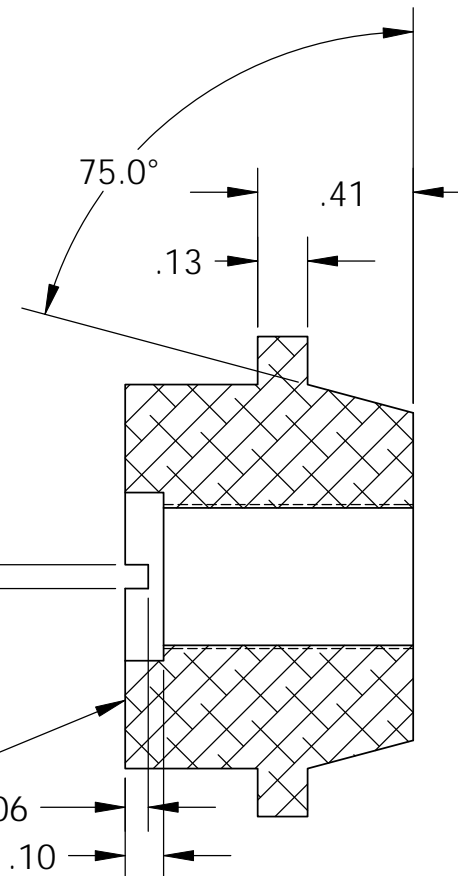
 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE <b>B</b>	DWG. NO. D972121-2
SCALE: 1:4	PROJECTION:  SHEET 5 OF 6
REV. v2	

D972121, PART PDM REV: X-000, DRAWING PDM REV: X-001





.06 SLOT FOR VENTING

ADD MATERIAL THIS SURFACE FOR FINISH MACHINING



SECTION G-G

 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
SIZE <b>B</b>	DWG. NO. D972121-3	REV. v2
SCALE: 2:1	PROJECTION: 	SHEET 6 OF 6