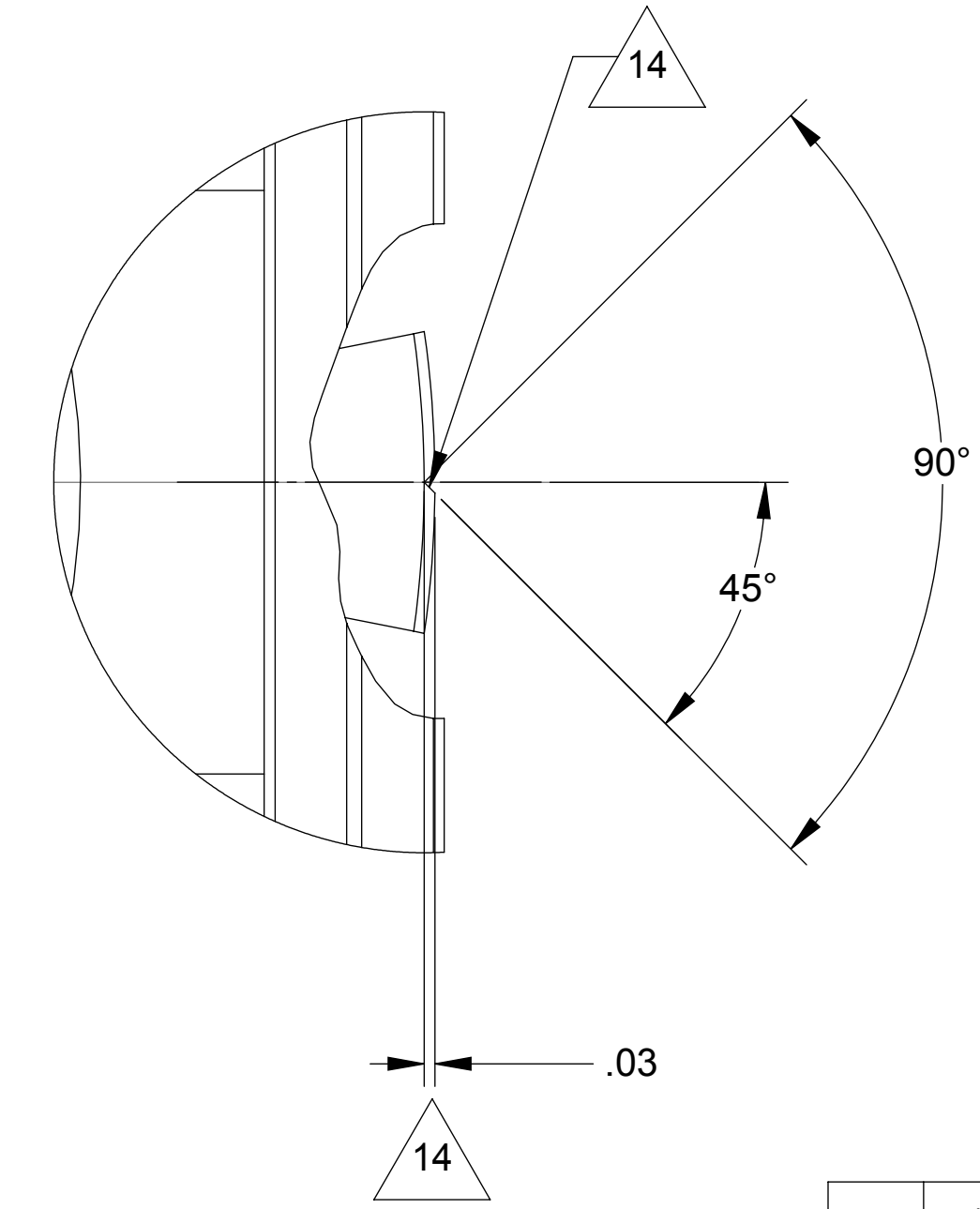
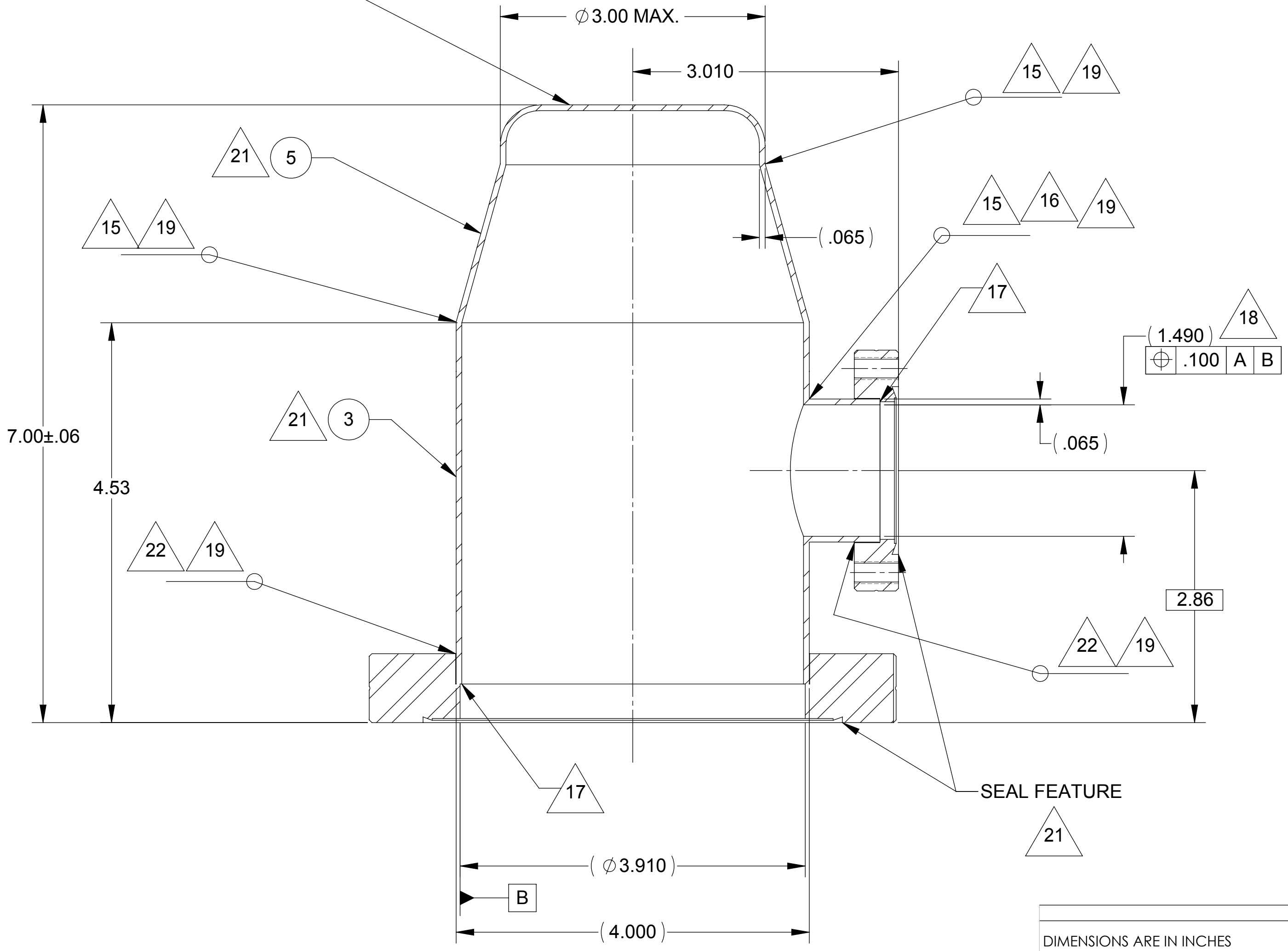
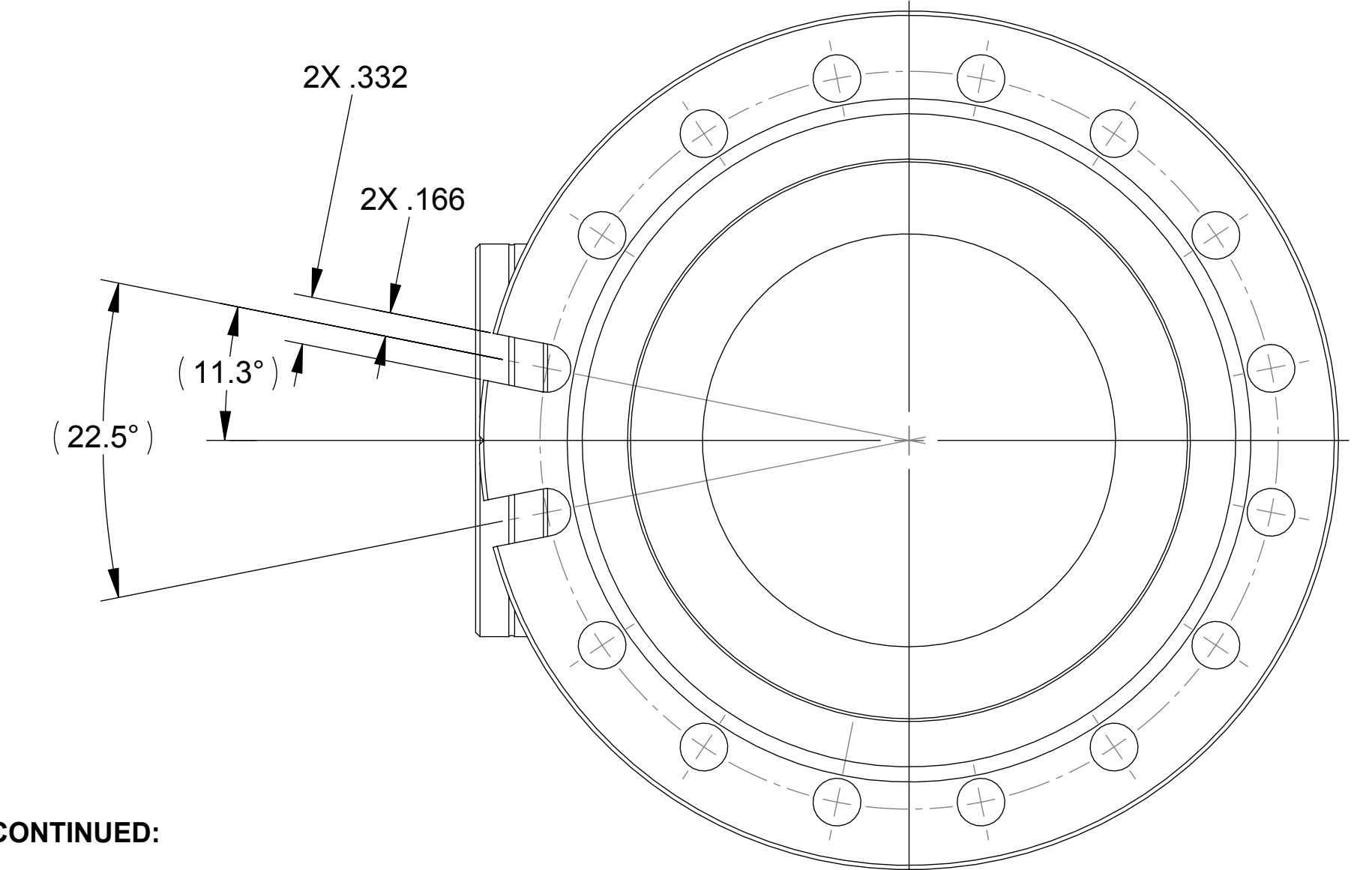
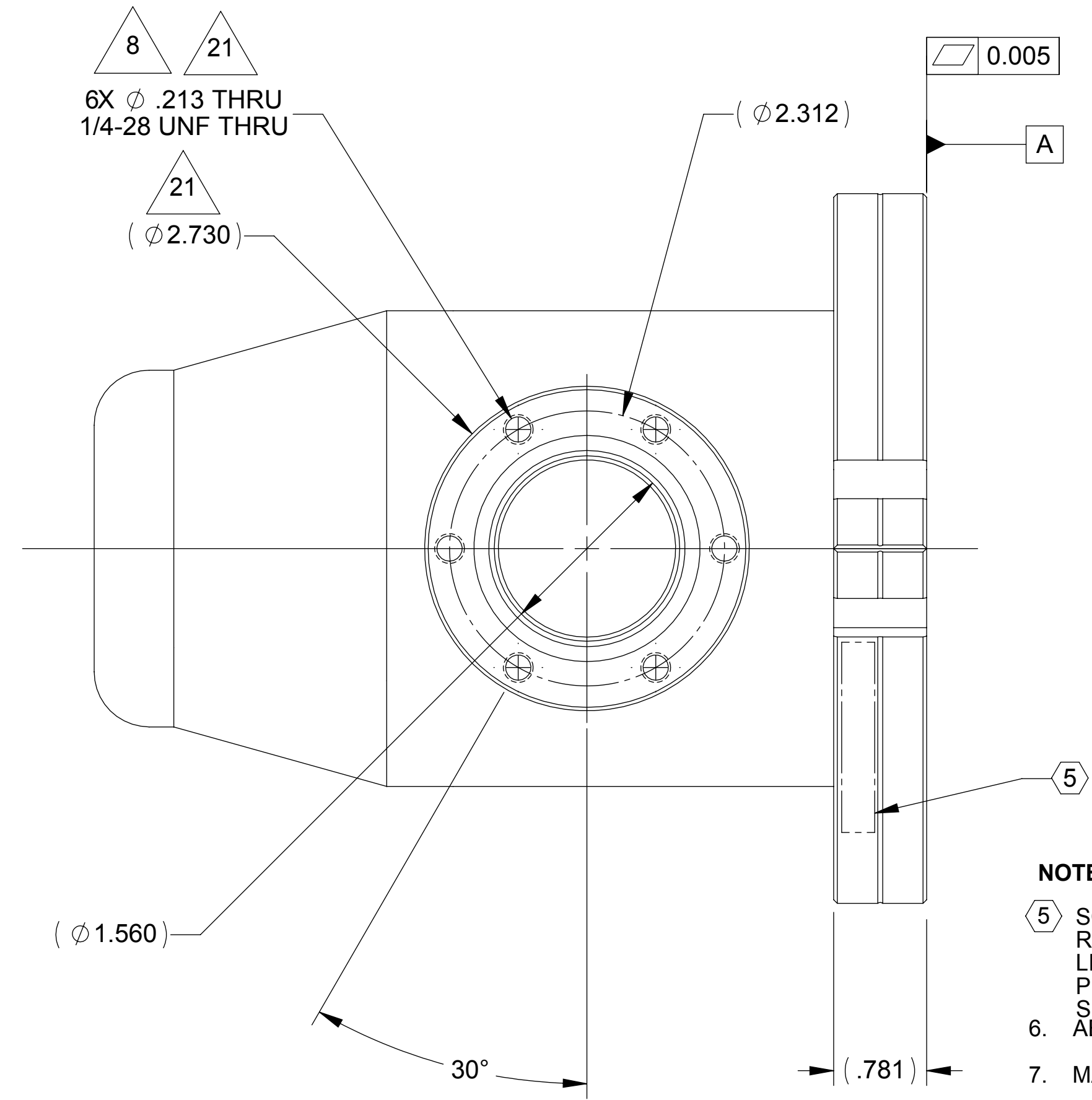
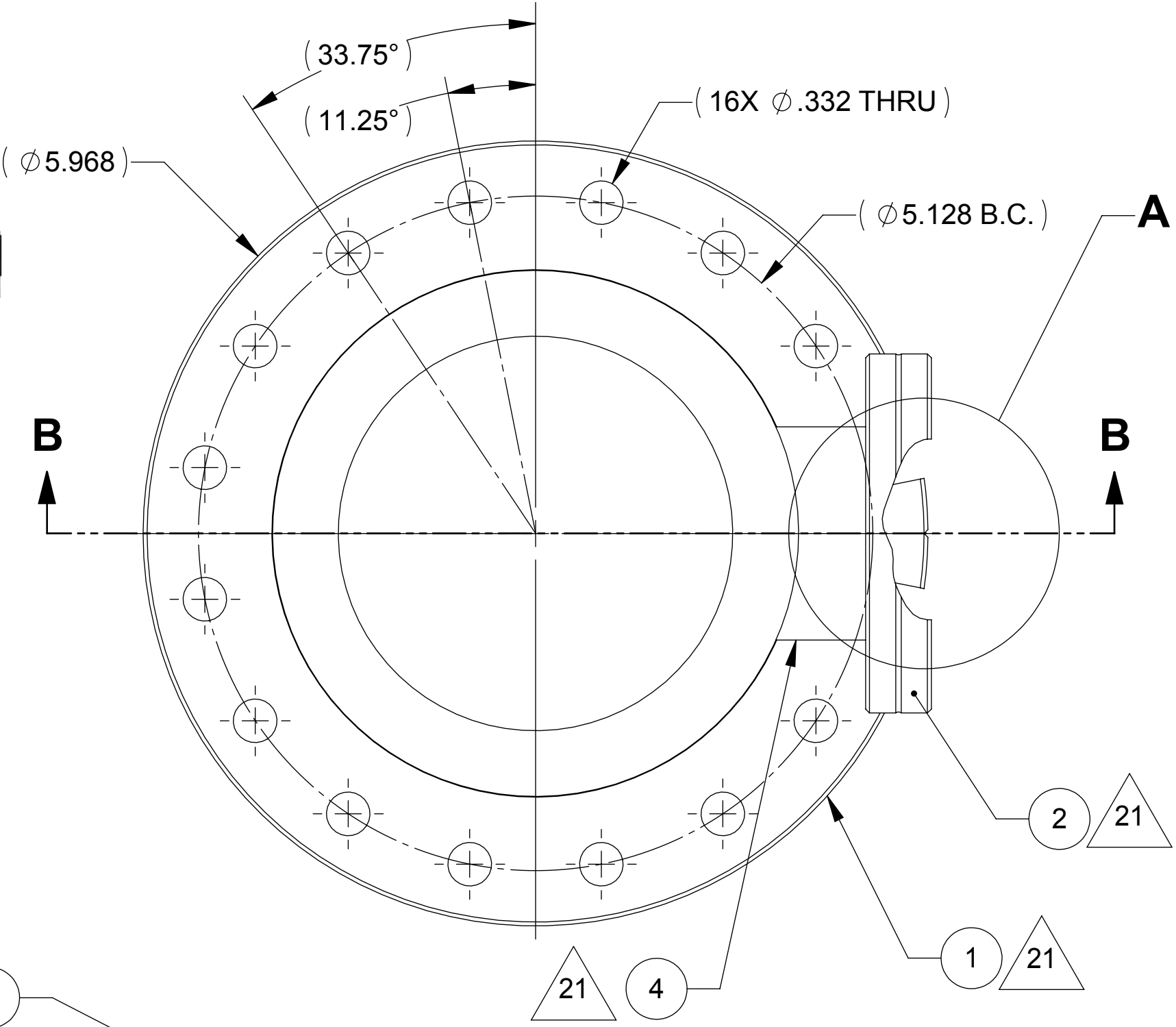
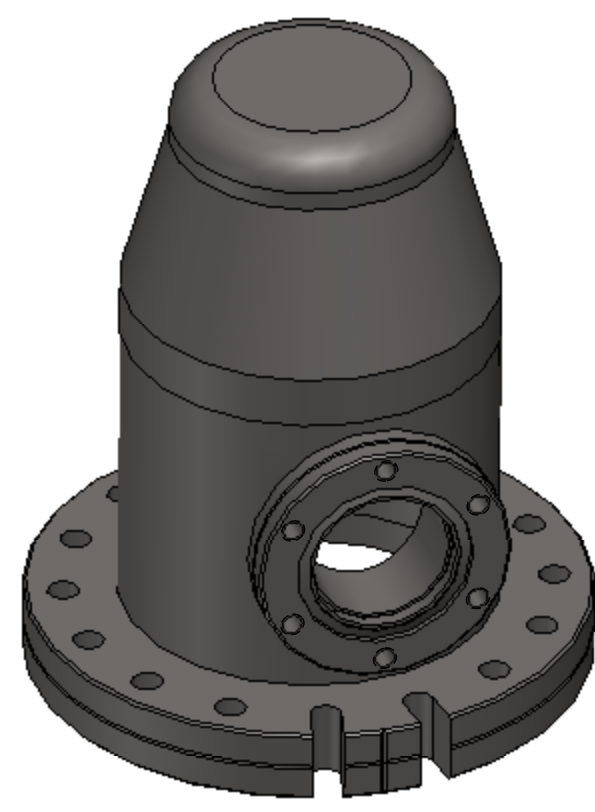


REV.	DATE	DCN #	DRAWING TREE #
V1	02 Dec. 2004	-	-
V2	10 Jun. 2009	-	-
V3	26 Jan. 2010	E0900436-x0	E1000025
V4	20 Feb. 2010	E1000048-x0	E1000025
V5	23 Apr. 2010	E1000140-v1	E1000025
V6	20 Mar. 2010	E1000171-v1	E1000025



- NOTES CONTINUED:**
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INK 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. ABRASIVE REMOVAL TECHNIQUES ARE NOT ACCEPTABLE.
 - 7. MACHINE FILLET RADII .003-.015.
 - 8. A PITCH DIAMETER LIMIT OF H11 APPLIES TO ALL TAPPED HOLES.
 - 9. COUNTERSINK 82° ALL TAPPED HOLES TO MAJOR DIAMETER +.015/- .000.
 - 10. COUNTERSINK 82° ALL DRILLED HOLES .015-.030 DEEP BOTH SIDES.
 - 11. FEATURES THAT ARE REFERENCED OR UNDIMENSIONED SHALL CONFORM TO THE APPROPRIATE NOR-CAL PRODUCTS PART NUMBERS LISTED IN THE PARTS LIST.
 - 12. REFERENCE MATING PART DRAWING D047822.
 - 13. ELECTROPOLISH AFTER WELDING, MASK CF FLANGE GASKET SURFACES.
 - 14. PHYSICAL CONFIGURATION OF VISUAL CLOCKING AID MAY VARY AT MANUFACTURER'S OPTION BUT SHALL BE LOCATED AS SPECIFIED.
 - 15. WELD TO BE EXTERNAL FUSION GTAW UHV, CONTINUOUS AND FULL PENETRATION.
 - 16. PULLED PORT CAN BE USED.
 - 17. TACK WELD CAN BE USED IF NEEDED FOR SET UP. VOLUME MUST VENT TO INSIDE.
 - 18. APPLIES PRIOR TO WELDING.
 - 19. JOINT CONFIGURATION TO BE DETERMINED BY VENDOR.
 - 20. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION LIGO-E0900364 AND WELDMENTS SPECIFICATION LIGO-E0900048.
 - 21. NOTE ON BILL OF MATERIALS: VENDOR REFERENCES ARE PROVIDED AS EXAMPLE OF PARTS MEETING ALL SPECIFICATIONS. EQUIVALENTS ARE ALWAYS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
 - 22. WELD TO BE CONTINUOUS EXTERNAL FUSION GTAW UHV.

QTY REQD	ITEM NO	REF DES	CAGE NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL OR NOTE	ZONE
1	6			D047823-106	CAP, END	G-2W-300	(CRES 304)	
1	5			D047823-105	REDUCER, ϕ 4.00 TO ϕ 2.50 X .065 WALL	B-31W-400-250	(CRES 304)	
1	4			D047823-104	TUBE, ϕ 1.62 X .065 WALL	SST-162	(CRES 304)	
1	3			D047823-103	TUBE, ϕ 4.00 X .083 WALL	SST-400	(CRES 304)	
1	2			D047823-102	PORT, CF FLANGE ϕ 2.75	275-162N	(CRES 304)	
1	1			D047823-101	BASE, CF FLANGE ϕ 6.00	600-400N	(CRES 304)	

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 ± .015
 .XXX ± .005
 ANGULAR ± 0.5°

MATERIAL: AISI 304 **FINISH:** 63 μ inch

SYSTEM: ADVANCED LIGO **SUB-SYSTEM:** SEI **NEXT ASSY:** D047820

PART NAME: L4C Pod Top Hat

DESIGNER: ASI	10 Nov. 2009	SIZE: D	DWG. NO.: D047823	REV.: v6
DRAFTER: M.HILLARD	26 Dec. 2010			
CHECKER: F.MATCHEARD	26 Dec. 2010			
APPROVAL: K.MASON	26 Dec. 2010	SCALE: 1:1	PROJECTION:	SHEET 1 OF 1

SECTION B-B

**DETAIL A
SCALE 4 : 1**