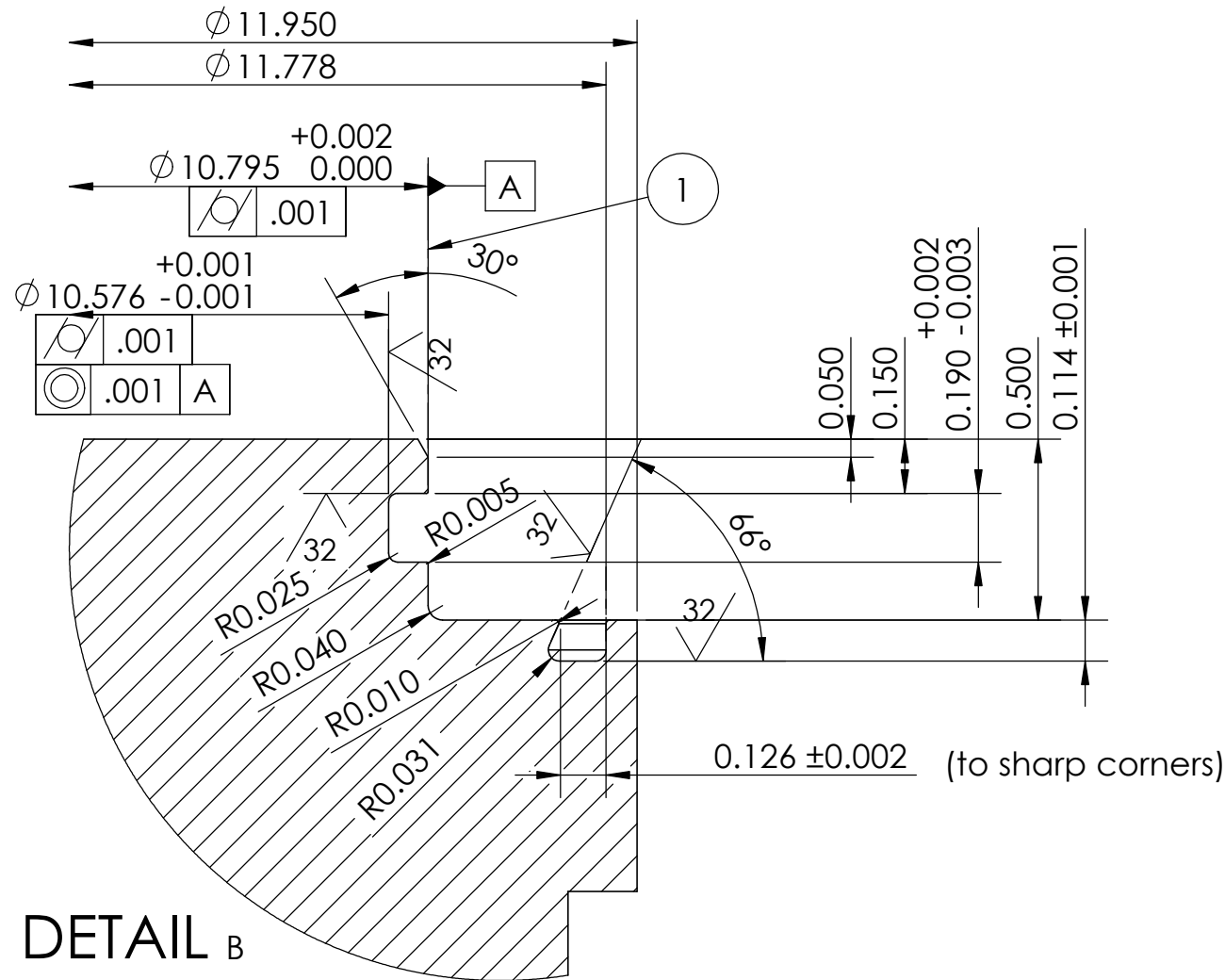
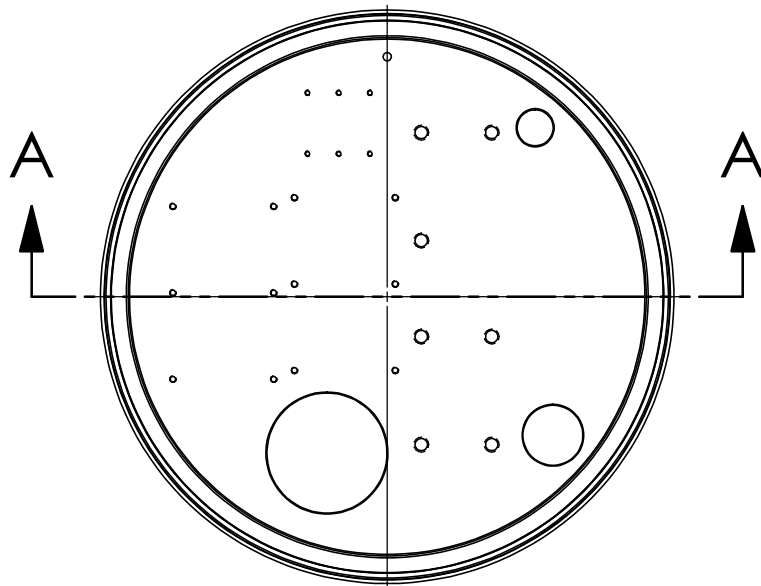


SECTION A-A



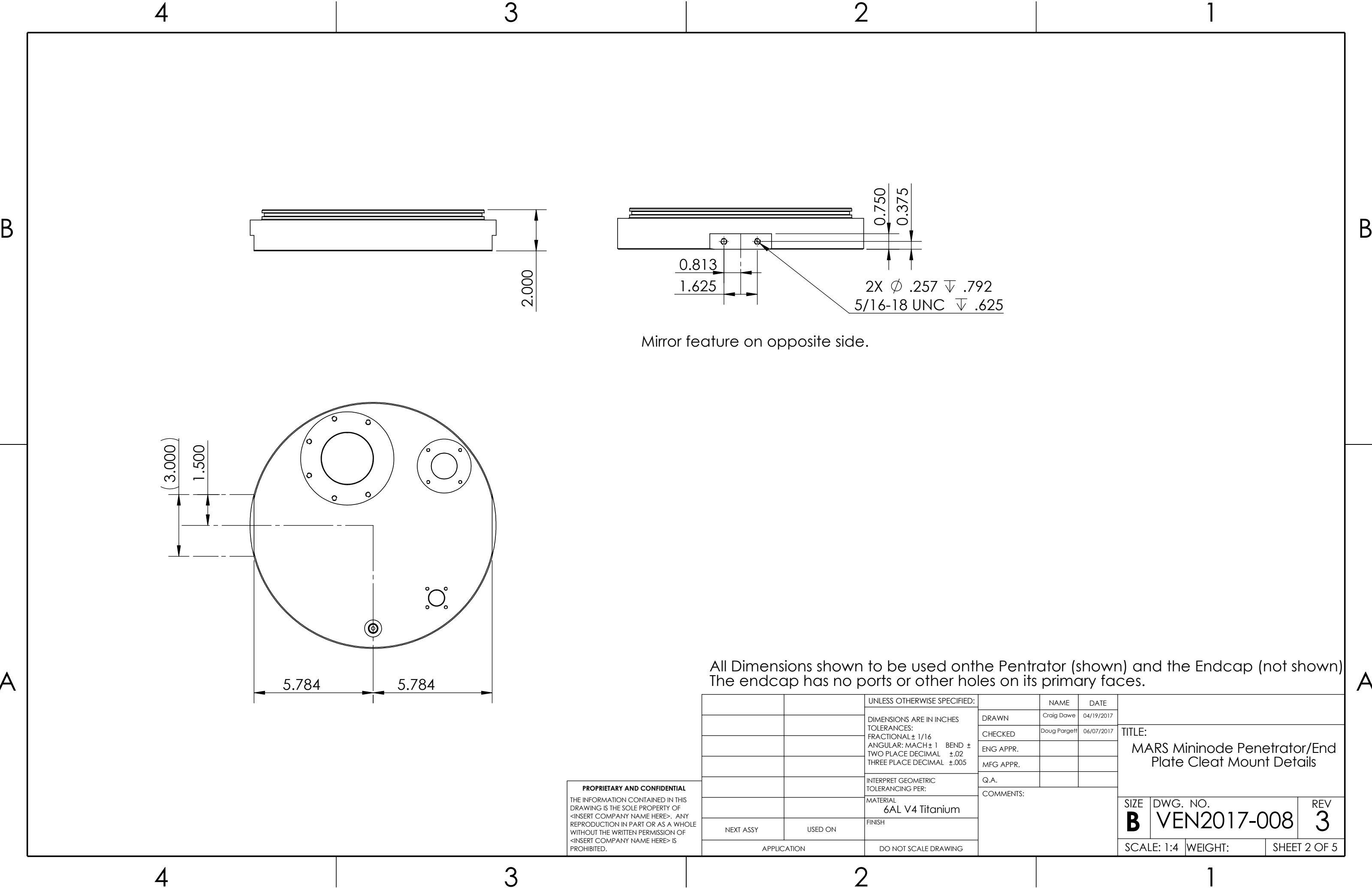
DETAIL B

SCALE 2 : 1

- Notes:
- 1. Mating cylinder diamter: 10.800 ±.001
 - 2. Radial O ring = 2-275
 - 3. Face O Ring = 2-277
 - 4. All Section A-A and Detail B Dimensions For Endcap (not shown) and Penetrator

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: MARS Mininode Penetrator/ Endcap O-ring Detail		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1 BEND ± TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .005	DRAWN	Craig Dawe	04/19/2017			
			CHECKED	Doug Pargett	06/07/2017			
			ENG APPR.					
			MFG APPR.			SIZE DWG. NO. REV B VEN2017-008 3		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL 6AL V4 Titanium	COMMENTS:					
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:4	WEIGHT:	SHEET 1 OF 5



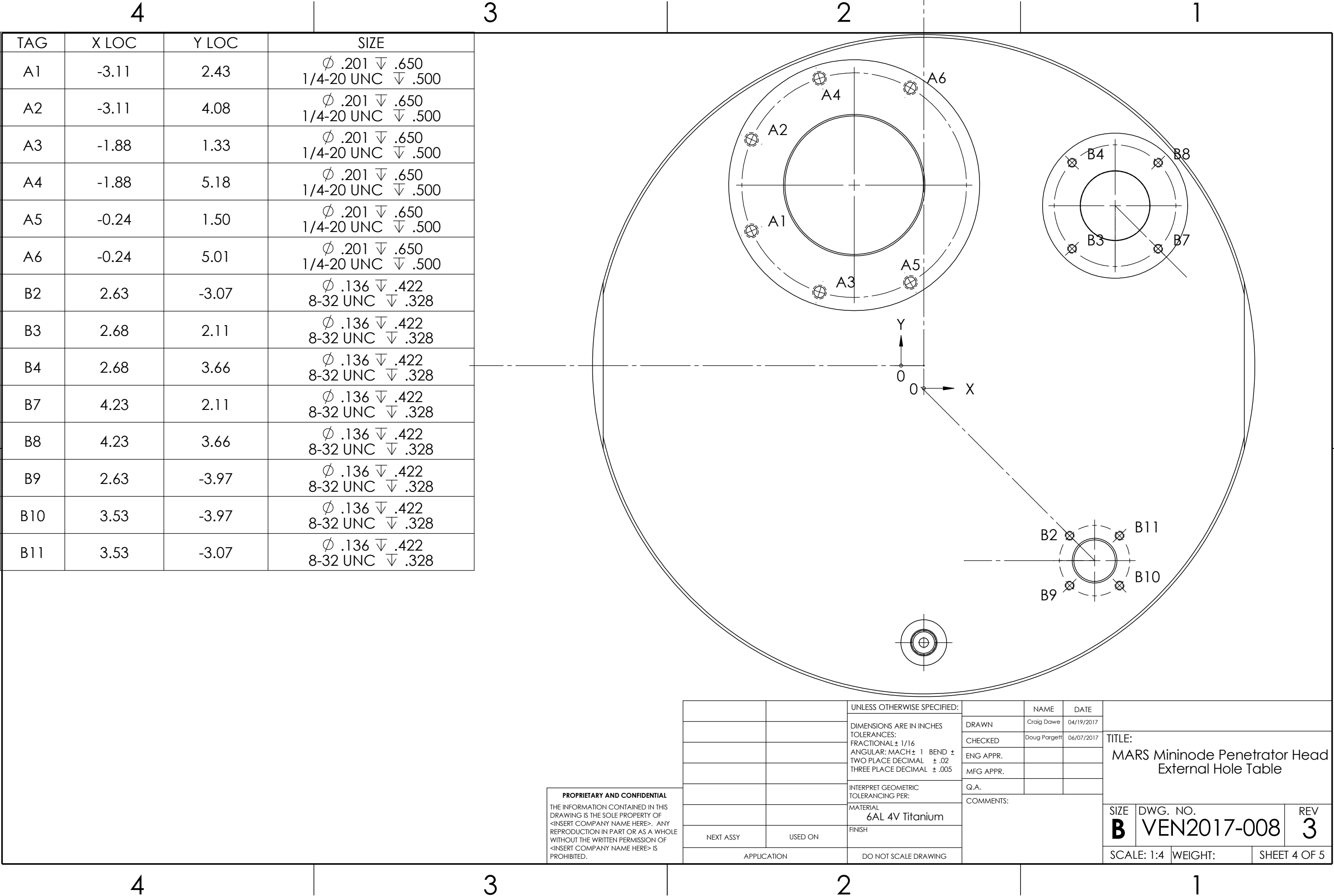
Mirror feature on opposite side.

All Dimensions shown to be used onthe Pentrator (shown) and the Endcap (not shown)
The endcap has no ports or other holes on its primary faces.

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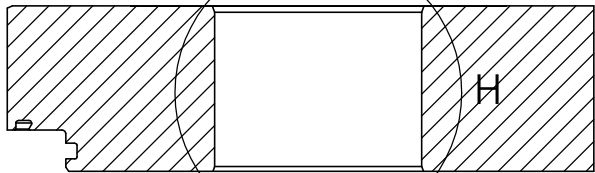
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: MARS Mininode Penetrator/End Plate Cleat Mount Details		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1 BEND ± TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.005	DRAWN	Craig Dawe	04/19/2017			
			CHECKED	Doug Pargett	06/07/2017			
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. REV B VEN2017-008 3		
		MATERIAL	COMMENTS:					
		6AL V4 Titanium						
		FINISH						
NEXT ASSY	USED ON					SCALE: 1:4 WEIGHT: SHEET 2 OF 5		
APPLICATION		DO NOT SCALE DRAWING						

4				3			2			1		
TAG	X LOC	Y LOC	SIZE	TAG	X LOC	Y LOC	SIZE					
A1	-4.46	-1.72	Ø .113 ▾ .351 6-40 UNF ▾ .276	C5	2.18	-3.08	Ø .257 ▾ .792 5/16-18 UNC ▾ .625					
A2	-4.46	0.08	Ø .113 ▾ .351 6-40 UNF ▾ .276	C6	2.18	3.42	Ø .257 ▾ .792 5/16-18 UNC ▾ .625					
A3	-4.46	1.88	Ø .113 ▾ .351 6-40 UNF ▾ .276	C7	2.18	-0.83	Ø .257 ▾ .792 5/16-18 UNC ▾ .625					
A4	-2.36	-1.72	Ø .113 ▾ .351 6-40 UNF ▾ .276									
A5	-2.36	0.08	Ø .113 ▾ .351 6-40 UNF ▾ .276									
A6	-2.36	1.88	Ø .113 ▾ .351 6-40 UNF ▾ .276									
A7	-1.93	-1.53	Ø .113 ▾ .351 6-40 UNF ▾ .276									
A8	-1.93	0.27	Ø .113 ▾ .351 6-40 UNF ▾ .276									
A9	-1.93	2.07	Ø .113 ▾ .351 6-40 UNF ▾ .276									
A10	0.17	-1.53	Ø .113 ▾ .351 6-40 UNF ▾ .276									
A11	0.17	0.27	Ø .113 ▾ .351 6-40 UNF ▾ .276									
A12	0.17	2.07	Ø .113 ▾ .351 6-40 UNF ▾ .276									
B1	-1.66	2.98	Ø .089 ▾ .299 4-40 UNC ▾ .224									
B2	-1.66	4.25	Ø .089 ▾ .299 4-40 UNC ▾ .224									
B3	-1.01	2.98	Ø .089 ▾ .299 4-40 UNC ▾ .224									
B4	-1.01	4.25	Ø .089 ▾ .299 4-40 UNC ▾ .224									
B5	-0.36	2.98	Ø .089 ▾ .299 4-40 UNC ▾ .224									
B6	-0.36	4.25	Ø .089 ▾ .299 4-40 UNC ▾ .224									
C1	0.71	-3.08	Ø .257 ▾ .792 5/16-18 UNC ▾ .625									
C2	0.71	-0.83	Ø .257 ▾ .792 5/16-18 UNC ▾ .625									
C3	0.71	1.17	Ø .257 ▾ .792 5/16-18 UNC ▾ .625									
C4	0.71	3.42	Ø .257 ▾ .792 5/16-18 UNC ▾ .625									
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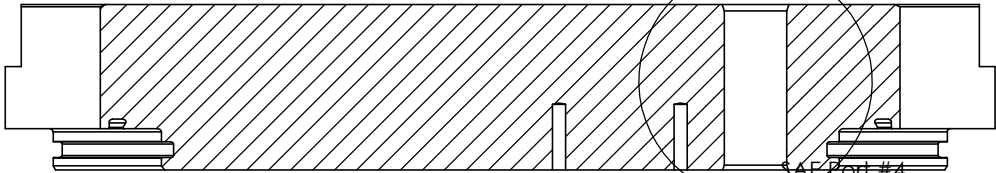
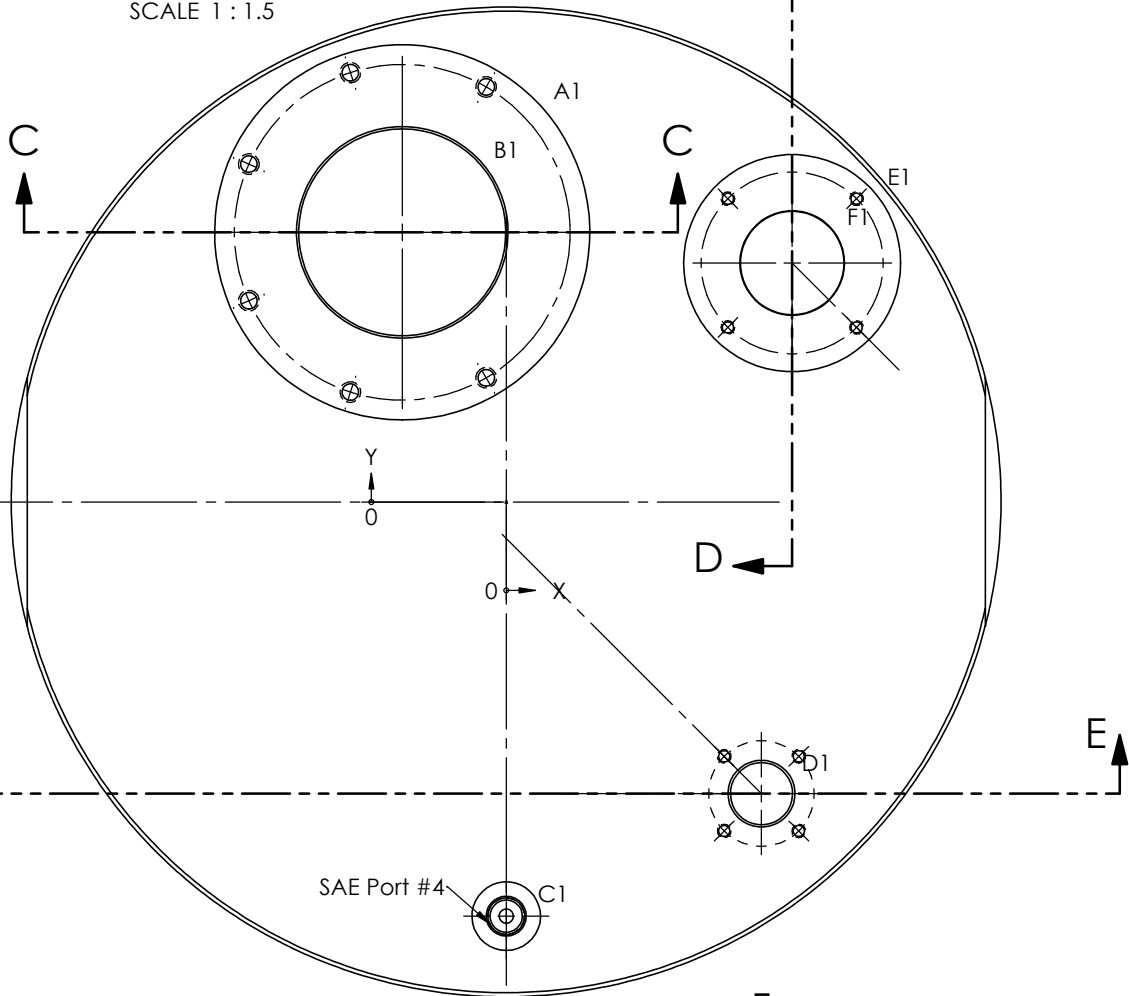


TAG	X LOC	Y LOC	SIZE
A1	-1.26	3.26	$\varnothing 4.530 \nabla .005$
B1	-1.26	3.26	$\varnothing 2.500 \nabla 1.860$
C1	0.00	-5.00	$\varnothing .172 \nabla .547$ $\varnothing .391 \nabla .454$ $\varnothing 0.447 \times 90^\circ$
D1	3.08	-3.52	$\varnothing .750$ THRU ALL
E1	3.45	2.89	$\varnothing 2.620 \nabla .001$
F1	3.45	2.89	$\varnothing 1.250 \nabla 1.930$

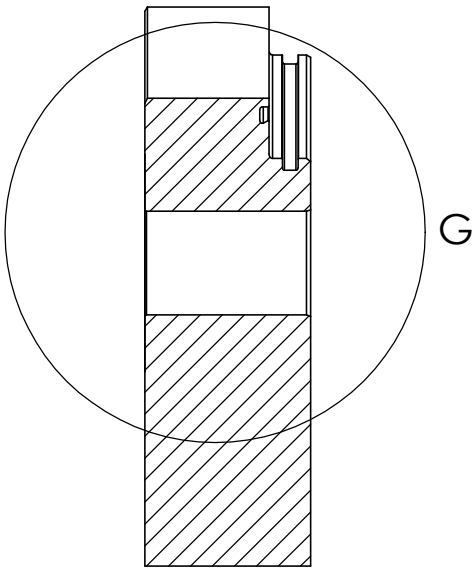
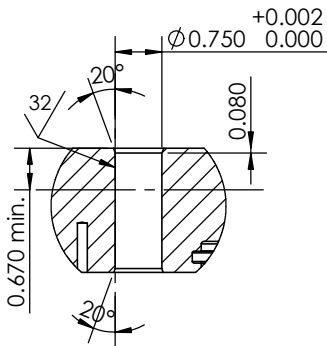
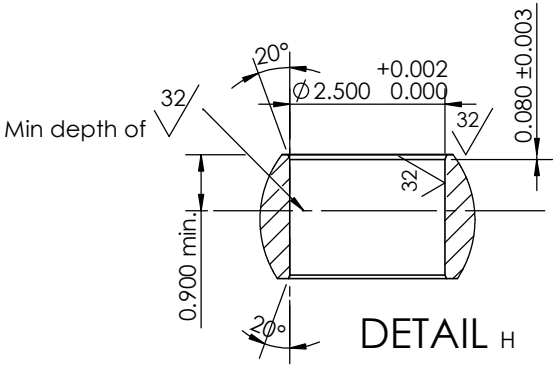
#4 SAE Port



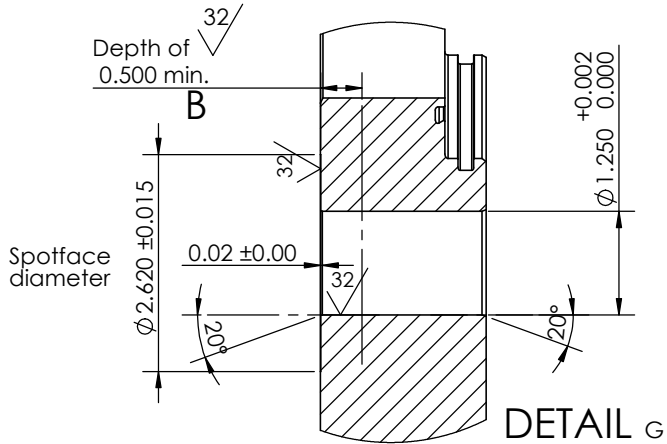
SECTION C-C
SCALE 1 : 1.5



SECTION E-E
SCALE 1 : 1.5



SECTION D-D
SCALE 1 : 1.5



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		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL $\pm 1/16$
		ANGULAR: MACH ± 1 BEND $\pm$
		TWO PLACE DECIMAL $\pm .02$
		THREE PLACE DECIMAL $\pm .005$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		6AL-4V Titanium
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

TITLE: MARS Mininode Penetrator Porting Details			
SIZE C	DWG. NO. VEN2017-008	REV 3	
SCALE: 1:4		WEIGHT:	SHEET 5 OF 5