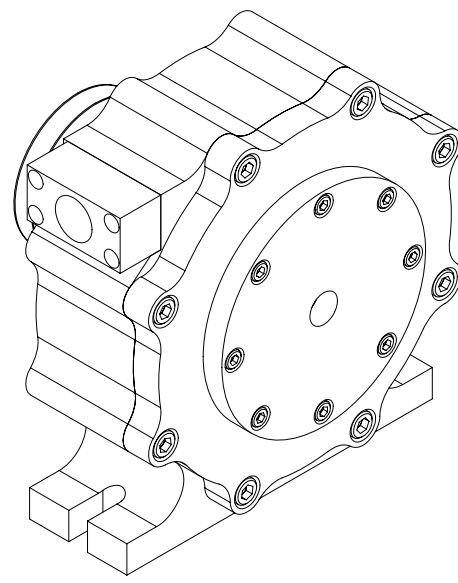
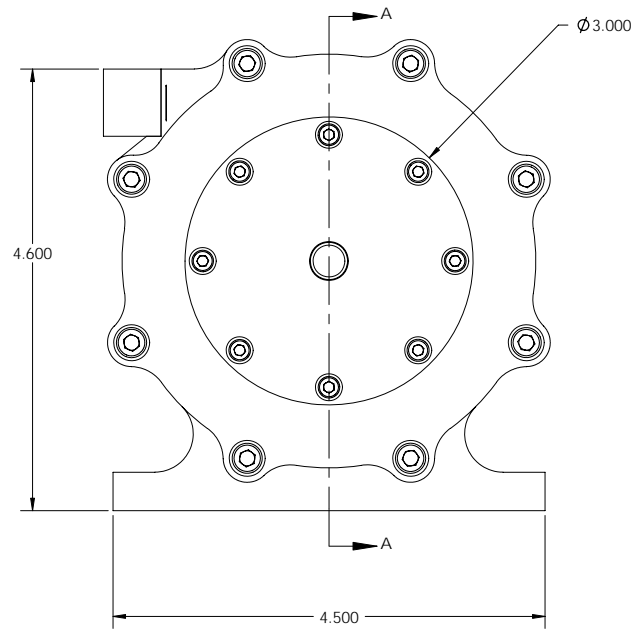
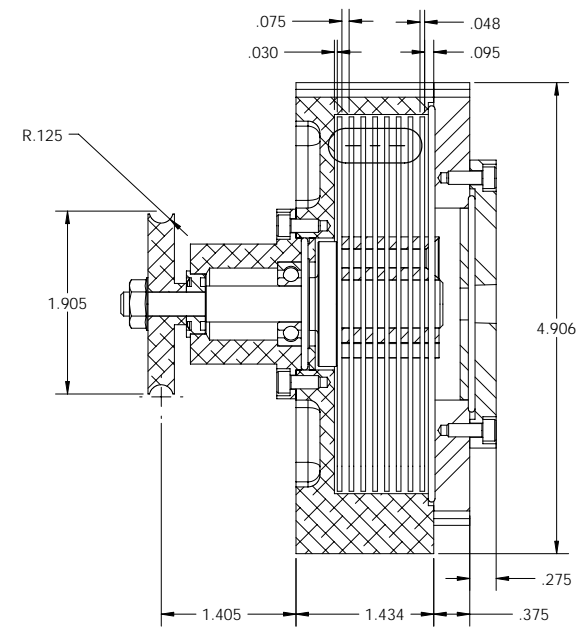
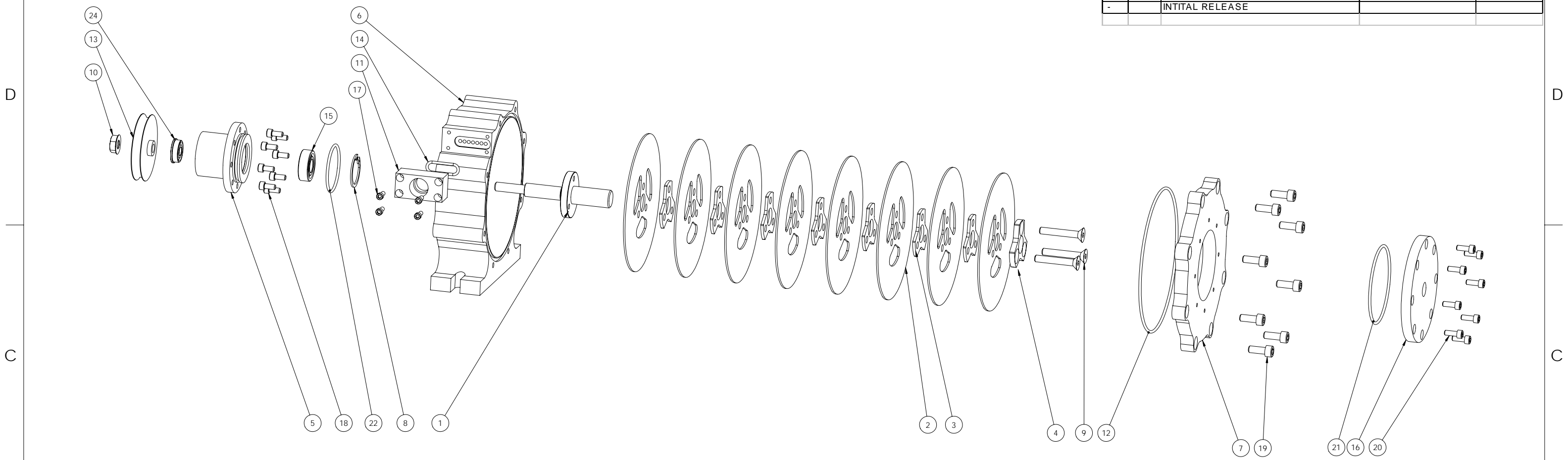


REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		



ITEM NO.	QTY	DESCRIPTION
1	1	SHAFT, ROTOR
2	8	DISC, TURBINE
3	7	SPACER, TURBINE DISC
4	1	CLAMP PLATE, ROTOR
5	1	HOUSING, BEARING
6	1	HOUSING, TURBINE
7	1	COVER, HOUSING
8	1	RETAINING RING, BEARING
9	3	SHCS 10-24 X 1.25
10	1	LOCKNUT .250-20
11	1	BLOCK, INLET
12	1	ORING, COVER AS568A-045
13	1	PULLEY, OUTPUT SHAFT
14	1	ORING, INLET AS568A-016
15	1	BALL BEARING .8750 OD X .3750 ID X .281 ABEC 7
16	1	INLET PLATE, PUMP
17	4	SHCS .112-40 X .31
18	8	SHCS .138 X .31
19	8	SHCS 10-24 X .50
20	8	SHCS .138 X .38
21	1	ORING, COVER AS568A-045
22	1	ORING, BEARING HSG AS568A-026
23	1	SPACER, BEARING
24	1	.6250 X 2500 BEARING, FLANGED ABEC7

ALL DIMENSIONS ARE IN INCHES - INTERPRET DRAWING PER ASME Y14.5 -1994

TOLERANCES UNLESS OTHERWISE SPECIFIED:
 X.X ± .03 $\angle \pm .5^\circ$
 X.XX ± .01
 X.XXX ± .005 125/

REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX

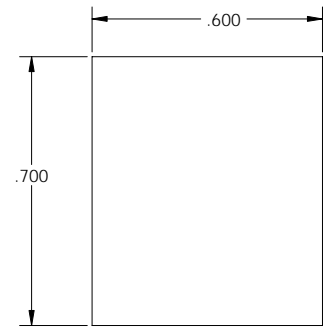
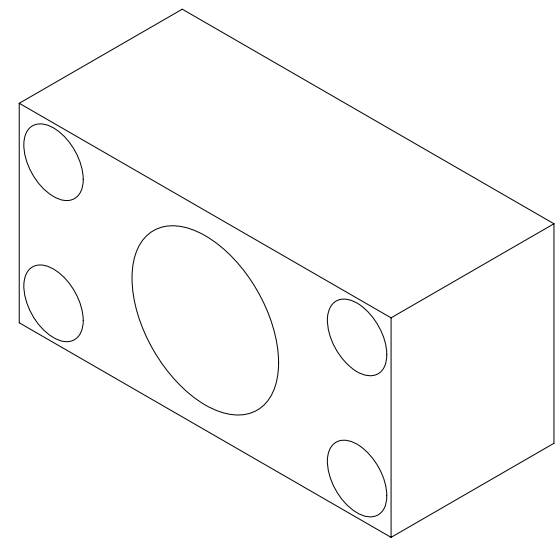
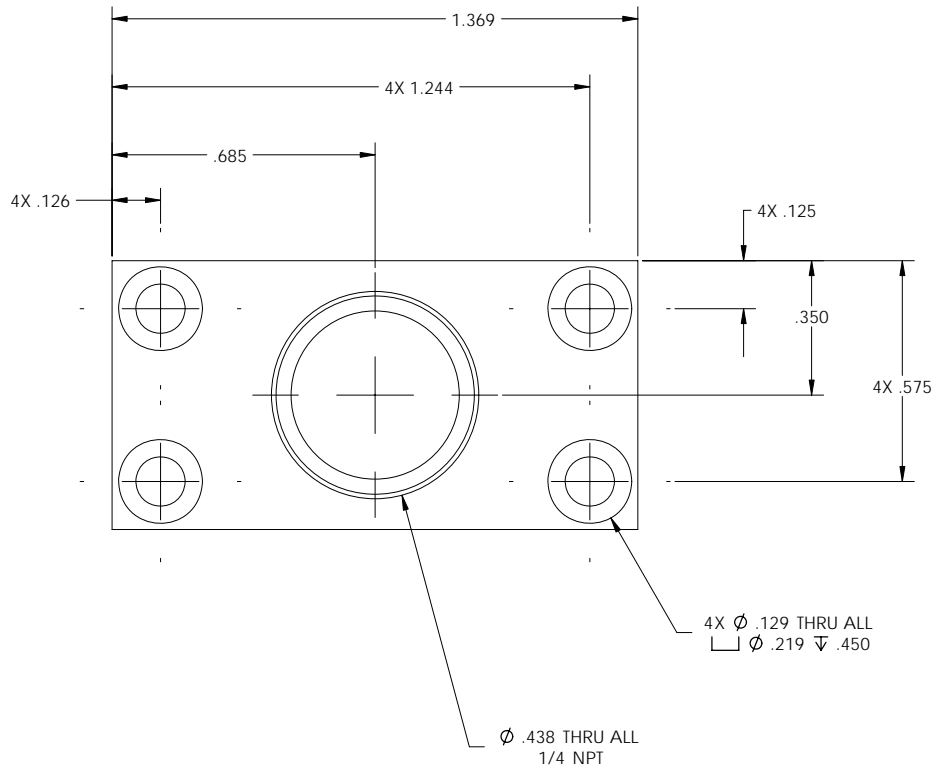
APPROVED	DATE	 TESLA TURBINE ASSY
PREP BY D. ANDERSON	2-20-08	
CHECKED		
RESP ENG		
MFG ENG		
QUAL ENG		

SIZE	FSCM NO.	PART NO.	PART REV	DOC REV
D				01
SCALE	1:1	WT	3.0509	SHEET 1 OF 1

NOTES, UNLESS OTHERWISE SPECIFIED

1. UNSPECIFIED FILLET RADII .005-.010.
2. MATERIAL: AL BAR 6061-T651
3. THREADS PER ANSI B1.1.

REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		



ALL DIMENSIONS ARE IN INCHES- INTERPRET DRAWING PER ASME Y14.5 -1994

TOLERANCES UNLESS OTHERWISE SPECIFIED:

X.X ± .03 ∠ ± .5°

X.XX ± .01

X.XXX ± .005 125/

REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX

APPROVED	DATE
PREP BY D. ANDERSON	
CHECKED	
RESP ENG D. ANDERSON	
MFG ENG	
QUAL ENG	

Franklin W. Olin
College of Engineering

BLOCK, INLET

SIZE C	FSCM NO.	PART NO.	PART REV 02	DOC REV
SCALE 4:1	WT 0.04	SHEET 1	OF 1	

◆ = (CRITICAL DIMENSION)

4

3

2

1

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3

2

1

4

3

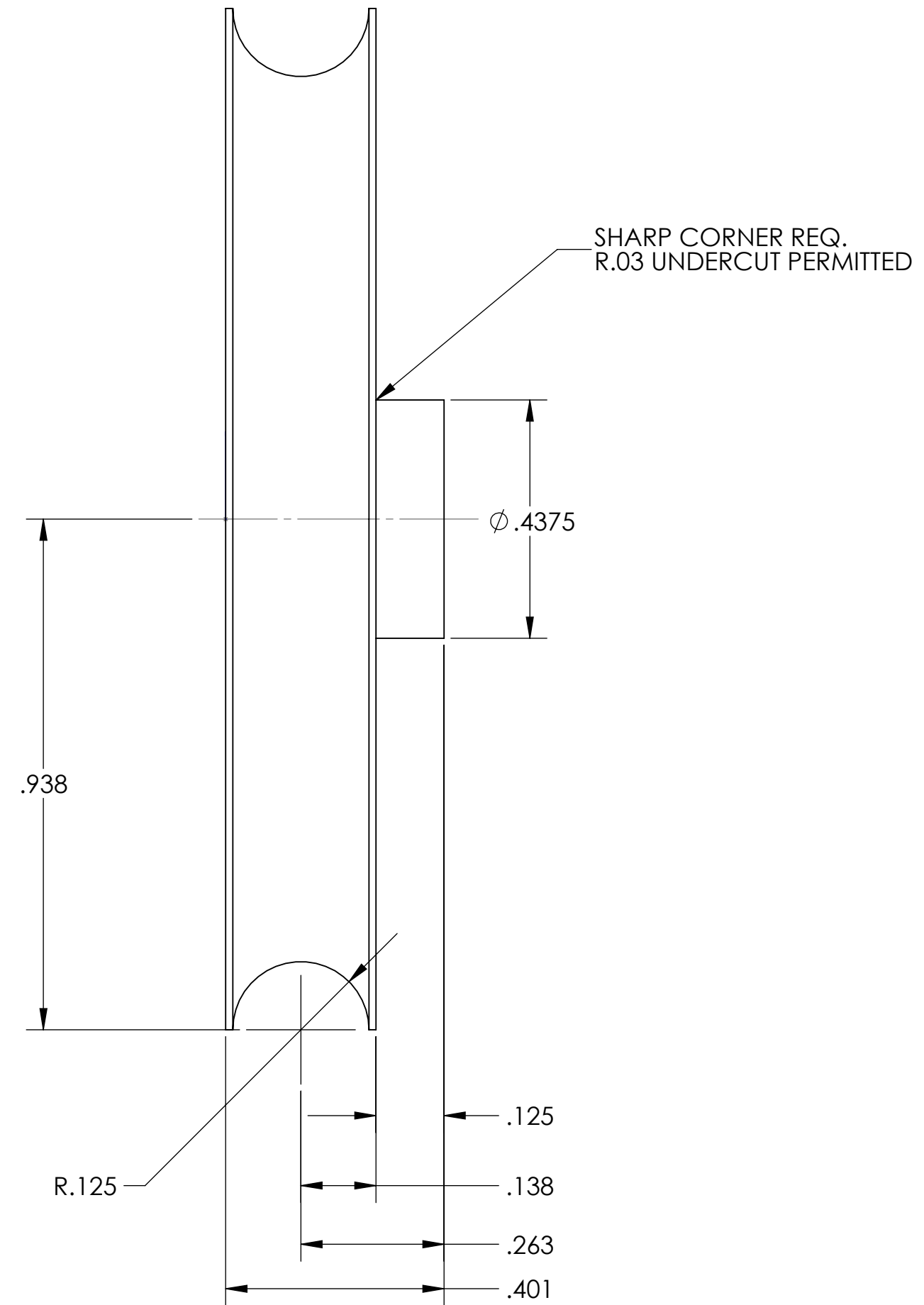
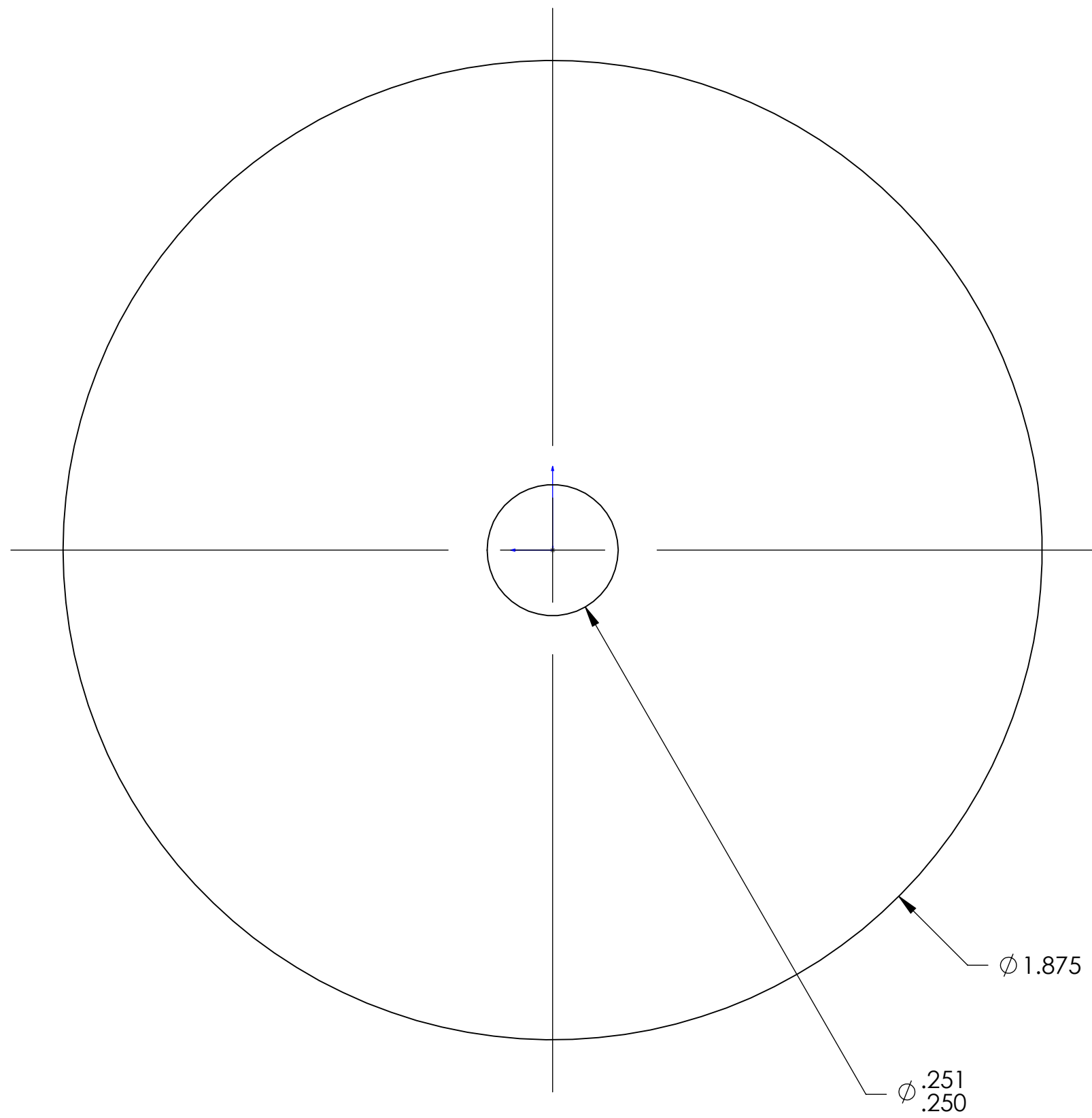
2

1

NOTES, UNLESS OTHERWISE SPECIFIED

- 1. UNSPECIFIED FILLET RADII .005-.010.
- 2. MATERIAL: AL BAR 6061-T651
- 3. THREADS PER ANSI B1.1.

REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		



ALL DIMENSIONS ARE IN INCHES- INTERPRET DRAWING PER ASME Y14.5 -1994

TOLERANCES UNLESS OTHERWISE SPECIFIED:

X.X $\pm .03$ $\angle \pm .5^\circ$

X.XX $\pm .01$

X.XXX $\pm .005$ 125°

REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX

APPROVED	DATE
PREP BY K. BERRY	11/2/2014
CHECKED	
RESP ENG	
MFG ENG	
QUAL ENG	



PULLEY, OUTPUT SHAFT

SIZE	FSCM NO.	PART NO.	PART REV	DOC REV
C				02
SCALE	4:1	WT	0.06	SHEET 1 OF 1

4

3

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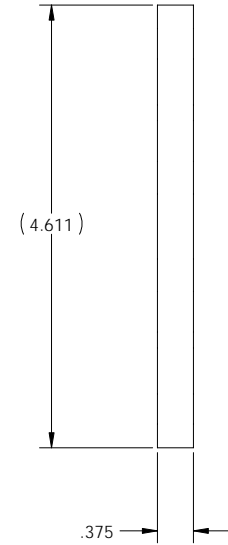
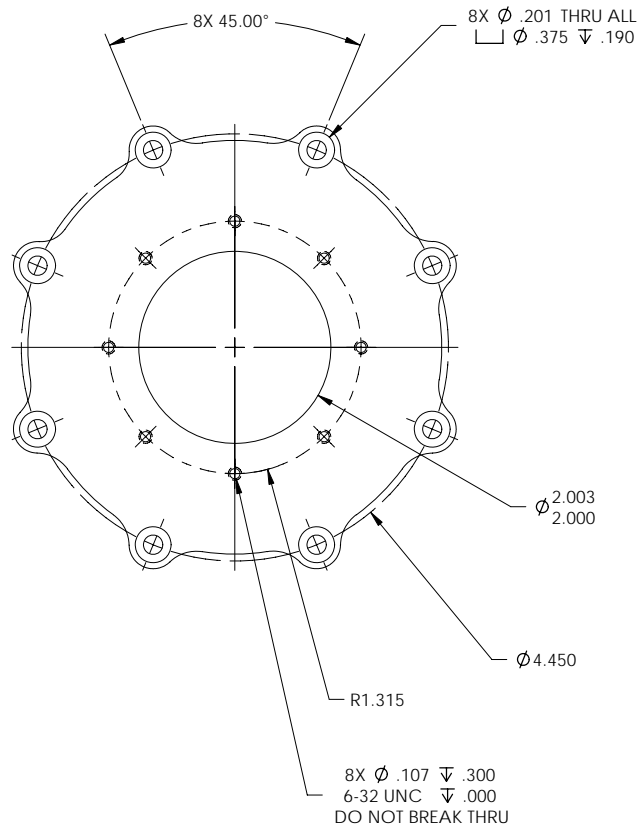
2

1

NOTES, UNLESS OTHERWISE SPECIFIED

- 1. UNSPECIFIED FILLET RADII .005-.010.
- 2. MATERIAL: CLEAR POLYCARBONATE

REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		



ALL DIMENSIONS ARE IN INCHES- INTERPRET DRAWING PER ASME Y14.5 -1994

TOLERANCES UNLESS OTHERWISE SPECIFIED:

X.X \pm .03 \angle \pm .5°

X.XX \pm .01

X.XXX \pm .005 \surd 125/

REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX

APPROVED	DATE
PREP BY D. ANDERSON	3-28-08
CHECKED	
RESP ENG	
MFG ENG	
QUAL ENG	

Franklin W. Olin
 College of Engineering

COVER, HOUSING

SIZE	FSCM NO.	PART NO.	PART REV	DOC REV
C				01
SCALE	1:1	WT	SHEET	1 OF 1

◆ = (CRITICAL DIMENSION)

4

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D

C

B

A

D

C

B

A

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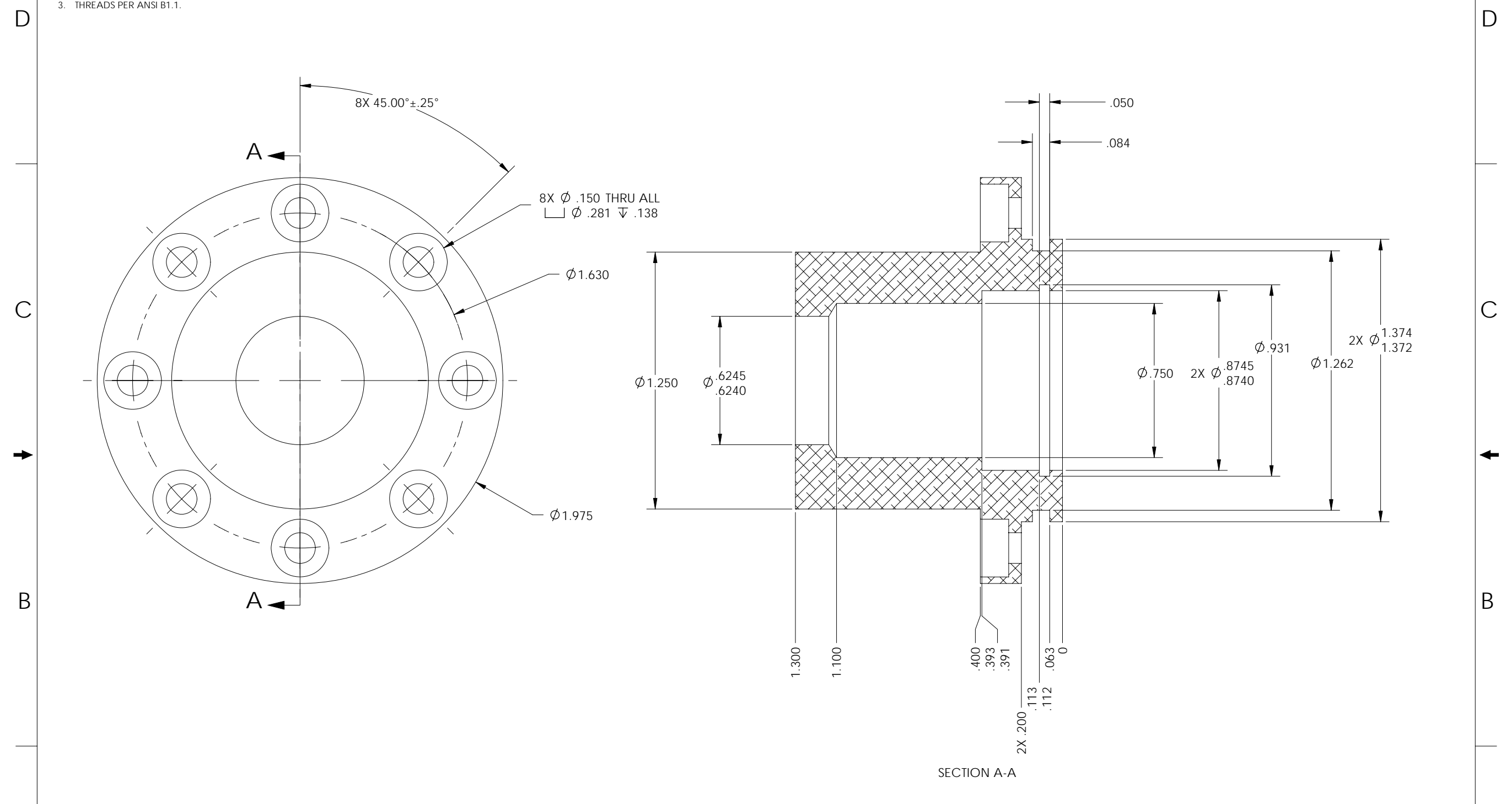
2

1

REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		

NOTES, UNLESS OTHERWISE SPECIFIED

- 1. UNSPECIFIED FILLET RADII .005-.010.
- 2. MATERIAL: AL BAR 6061-T651
- 3. THREADS PER ANSI B1.1.



ALL DIMENSIONS ARE IN INCHES- INTERPRET DRAWING PER ASME Y14.5 -1994 TOLERANCES UNLESS OTHERWISE SPECIFIED: X.X ± .03 $\angle \pm .5^\circ$ X.XX ± .01 X.XXX ± .005 125/	APPROVED	DATE	 HOUSING, BEARING									
	PREP BY							SIZE	FSCM NO.	PART NO.	PART REV	DOC REV
	CHECKED							C				01
	RESP ENG							SCALE	3:1	WT	SHEET	1 OF 1
REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX	◆ = (CRITICAL DIMENSION)											

A

A

4

3

2

1

4

3

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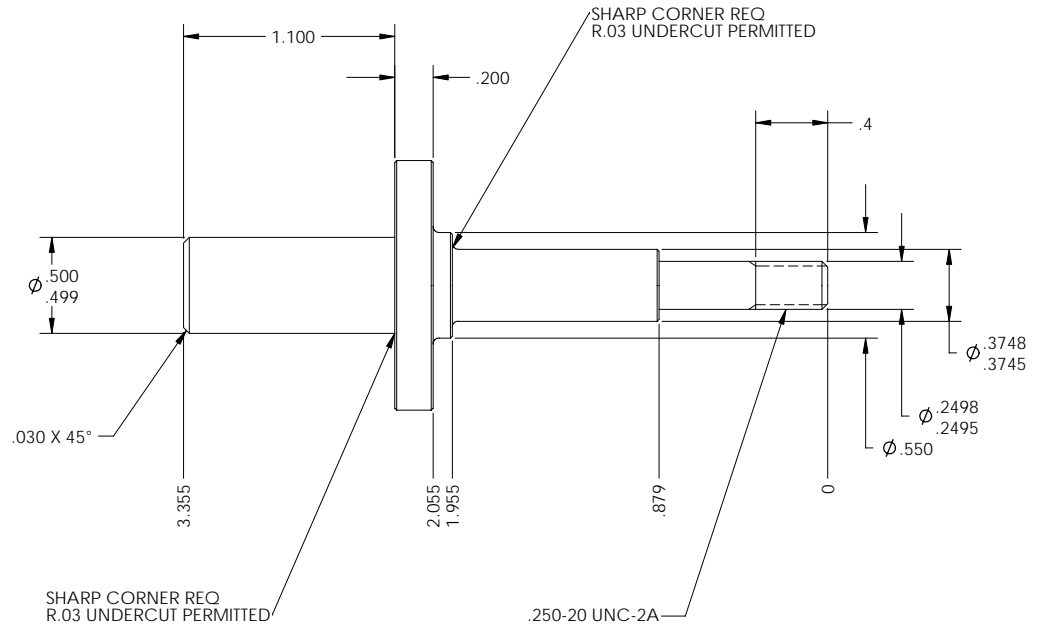
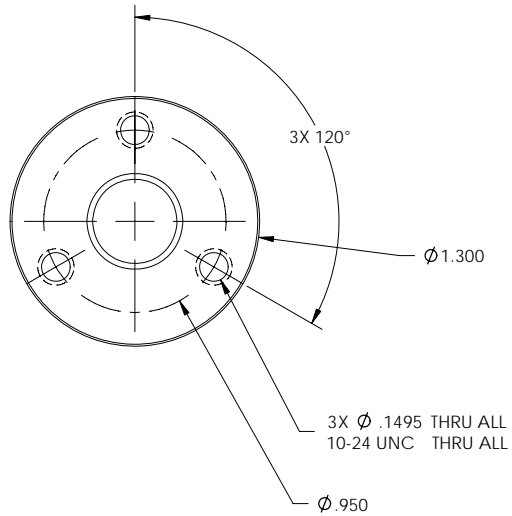
2

1

NOTES, UNLESS OTHERWISE SPECIFIED

- 1. UNSPECIFIED FILLET RADII .005-.010.
- 2. MATERIAL: 416SS RC 28 MIN.
- 3. THREADS PER ANSI B1.1.

REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		



ALL DIMENSIONS ARE IN INCHES- INTERPRET DRAWING PER ASME Y14.5 -1994

TOLERANCES UNLESS OTHERWISE SPECIFIED:

X.X ± .03 ∠ ± .5°

X.XX ± .01

X.XXX ± .005 125/

REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX

APPROVED	DATE
PREP BY D. ANDERSON	
CHECKED	
RESP ENG D. ANDERSON	
MFG ENG	
QUAL ENG	



SHAFT, ROTOR

SIZE	FSCM NO.	PART NO.	PART REV	DOC REV
C				01
SCALE	2:1	WT	0.19	SHEET 1 OF 1

◆ = (CRITICAL DIMENSION)

4

3

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2

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D

C

B

A

D

C

B

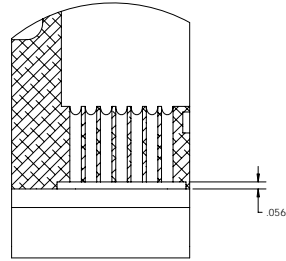
A

8 7 6 5 4 3 2 1

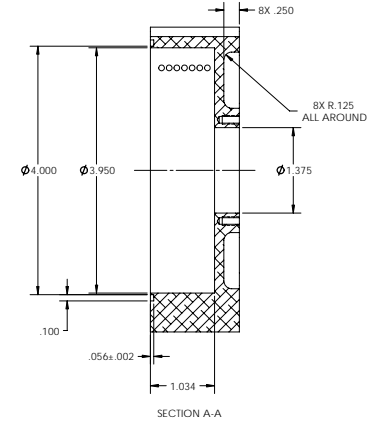
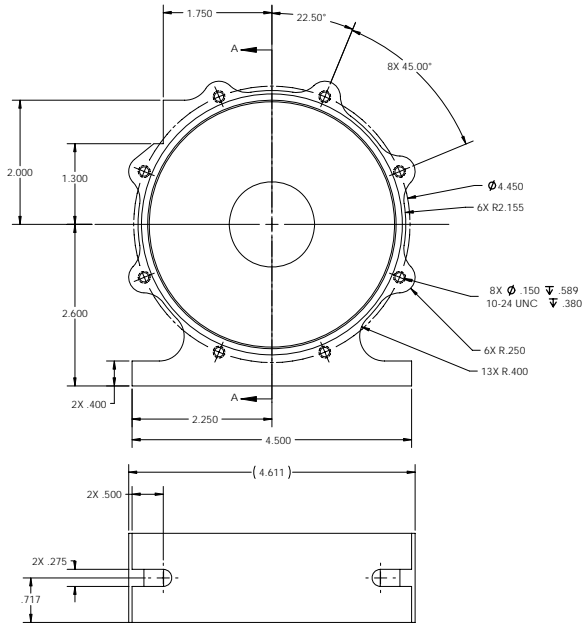
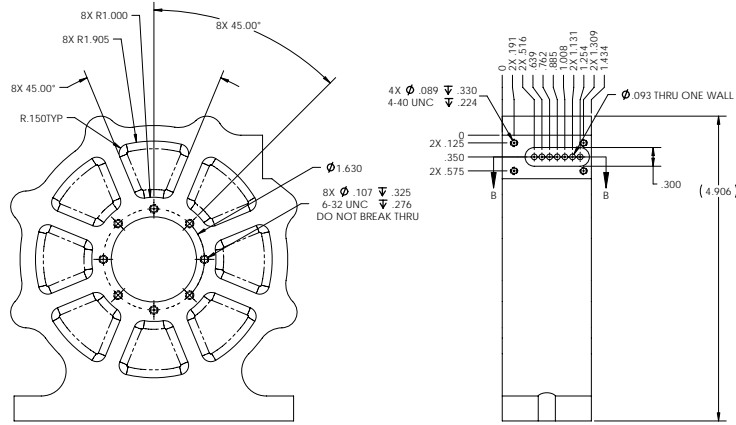
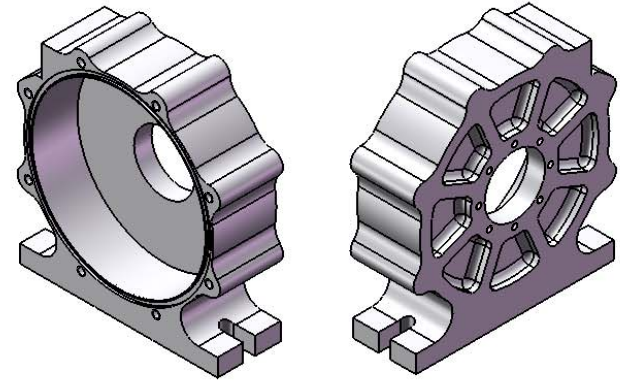
NOTES, UNLESS OTHERWISE SPECIFIED:

1. UNSPECIFIED FILLET RADIUS .005-.010.
2. MATERIAL: AL 6061-T651
3. THREADS PER ANSI B1.1.

REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		



SECTION B-B
SCALE 2 : 1



ALL DIMENSIONS ARE IN INCHES - INTERPRET DRAWING PER ASME Y14.5-1994 TOLERANCES UNLESS OTHERWISE SPECIFIED: X.X ± .03 X.XX ± .01 X.XXX ± .005 .125 REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX	APPROVED	DATE	Franklin W. Olin College of Engineering	
	PREP BY: D. ANDERSON	3-28-08	HOUSING, TURBINE	
	CHECKED:		PART NO.	PART REV
	RESP ENG: D. ANDERSON		WT	DOC REV
	QUAL ENG:		SHEET 1 OF 1	01

8 7 6 5 4 3 2 1

4

3

↓

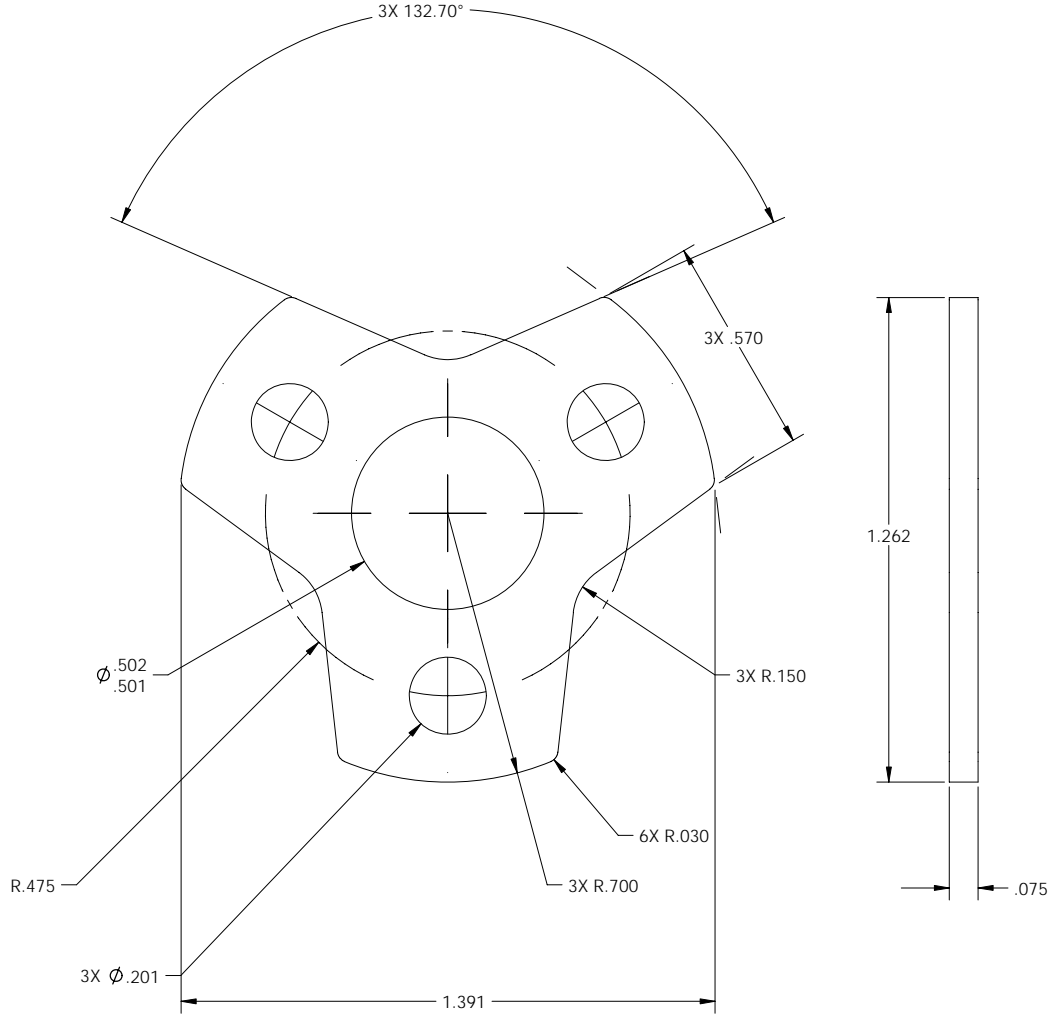
2

1

NOTES, UNLESS OTHERWISE SPECIFIED

- 1. UNSPECIFIED FILLET RADII .005-.010.
- 2. MATERIAL: AL BAR 6061-T651
- 3. THREADS PER ANSI B1.1.

REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		



ALL DIMENSIONS ARE IN INCHES- INTERPRET DRAWING PER ASME Y14.5 -1994

TOLERANCES UNLESS OTHERWISE SPECIFIED:

X.X $\pm .03$ $\angle \pm .5^\circ$

X.XX $\pm .01$

X.XXX $\pm .005$ $\sqrt{125}$

REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX

APPROVED	DATE
PREP BY D. ANDERSON	
CHECKED	
RESP ENG	
MFG ENG	
QUAL ENG	

Franklin W. Olin
College of Engineering

SPACER, TURBINE DISC

SIZE C	FSCM NO.	PART NO.	PART REV	DOC REV 01
SCALE 4:1	WT	SHEET 1	OF 1	

◆ = (CRITICAL DIMENSION)

4

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C

B

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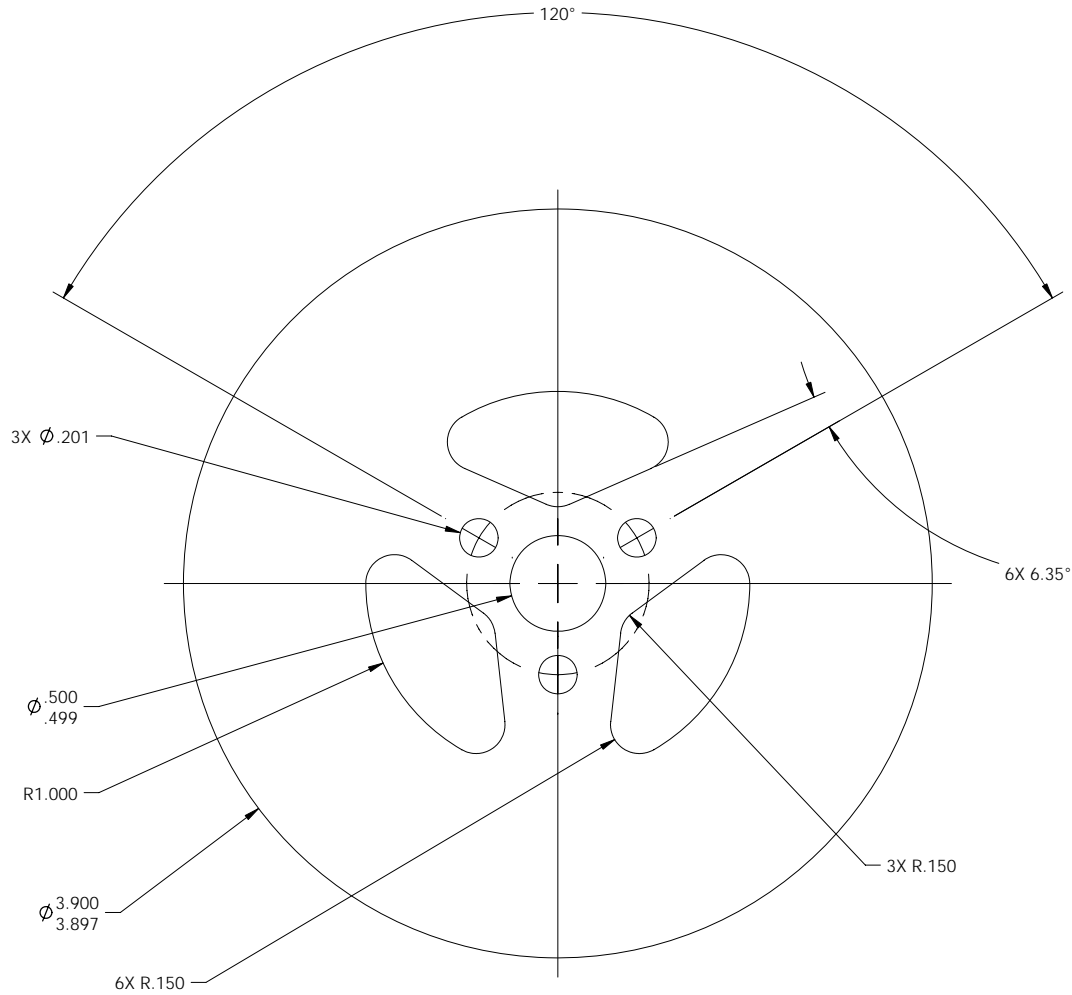
2

1

NOTES, UNLESS OTHERWISE SPECIFIED

- 1. UNSPECIFIED FILLET RADII .005-.010.
- 2. MATERIAL: 304SS POLISHED SHEET

REV	ZONE	DESCRIPTION	APPROVED	DATE
-		INITIAL RELEASE		



.048 STK

ALL DIMENSIONS ARE IN INCHES- INTERPRET DRAWING PER ASME Y14.5 -1994 TOLERANCES UNLESS OTHERWISE SPECIFIED: X.X ± .03 ∠ ± .5° X.XX ± .01 X.XXX ± .005 125/	APPROVED	DATE					
	PREP BY D. ANDERSON						DISC, TURBINE
	CHECKED						
	RESP ENG D. ANDERSON						
MFG ENG							
QUAL ENG			SIZE C	FSCM NO.	PART NO.	PART REV	DOC REV 01
REMOVE ALL BURRS AND SHARP EDGES .005 R OR CHAMFER MAX	◆ = (CRITICAL DIMENSION)	SCALE 2:1	WT 0.14	SHEET 1	OF 1		

4

3

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2

1

D

D

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C

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A