

1 2 3 4 5 6 7 8

A

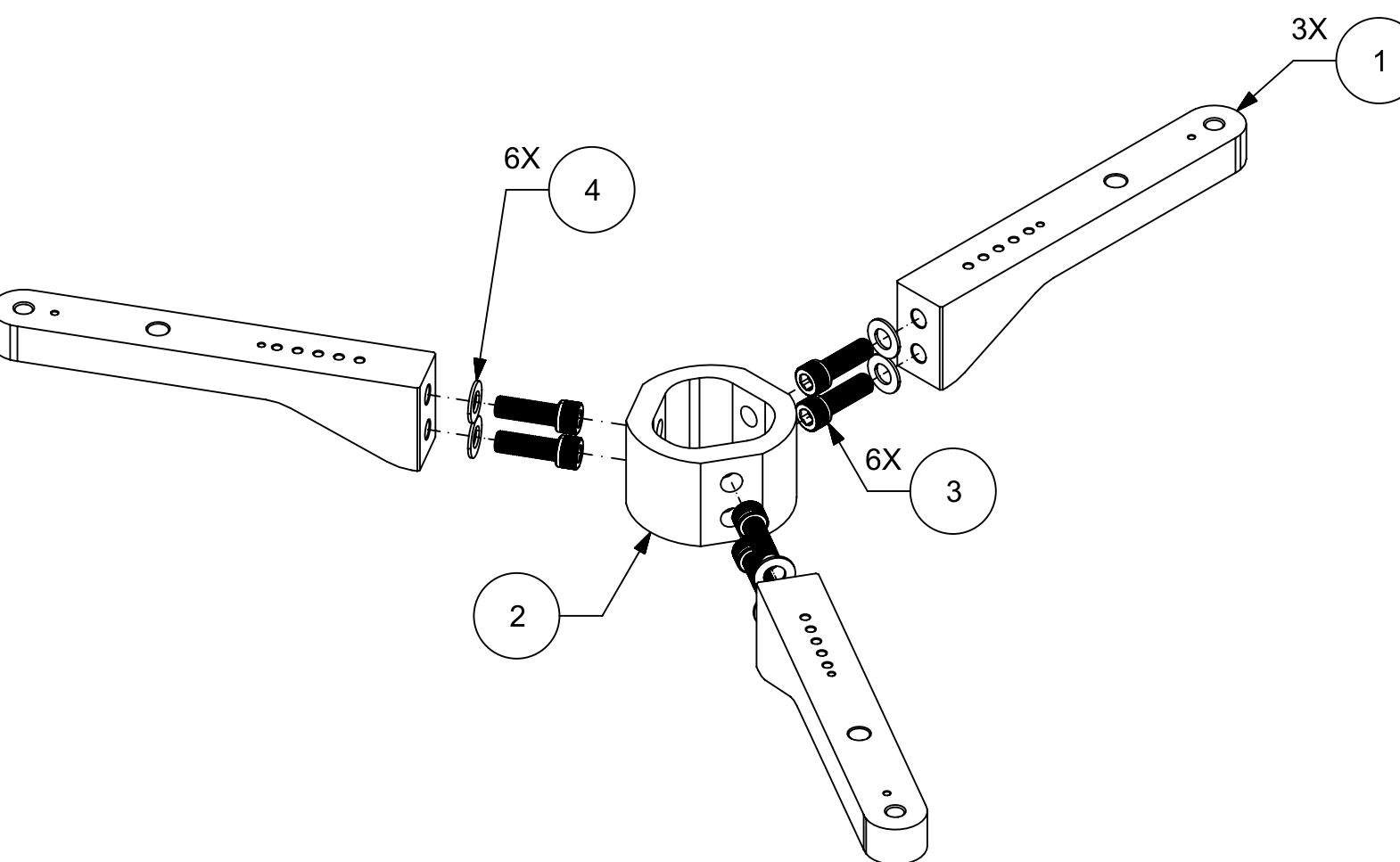
B

C

D

E

F



LABEL	PART NO	TOTAL QTY
1	C101-001 STRUT	2
2	C101-002 HUB	2
3	MCM_901284A844_1-20-SOCKET_HEAD	12
4	MCM_92844A147_1-2_WASHER	12



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

PART NUMBER - TITLE

C101-501 BOTTOM STRUCTURE ASSEMBLY

ENGINEER	M. LEWTON	SIZE B	MATERIAL	SHEET REV A	
DRAWN BY	T. KOESSLER				
CHECKED BY	A. ROBB	SCALE 1:1		SHEET 2 OF 7	
APPROVED BY	M. LEWTON				

1 2 3 4 5 6 7 B

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

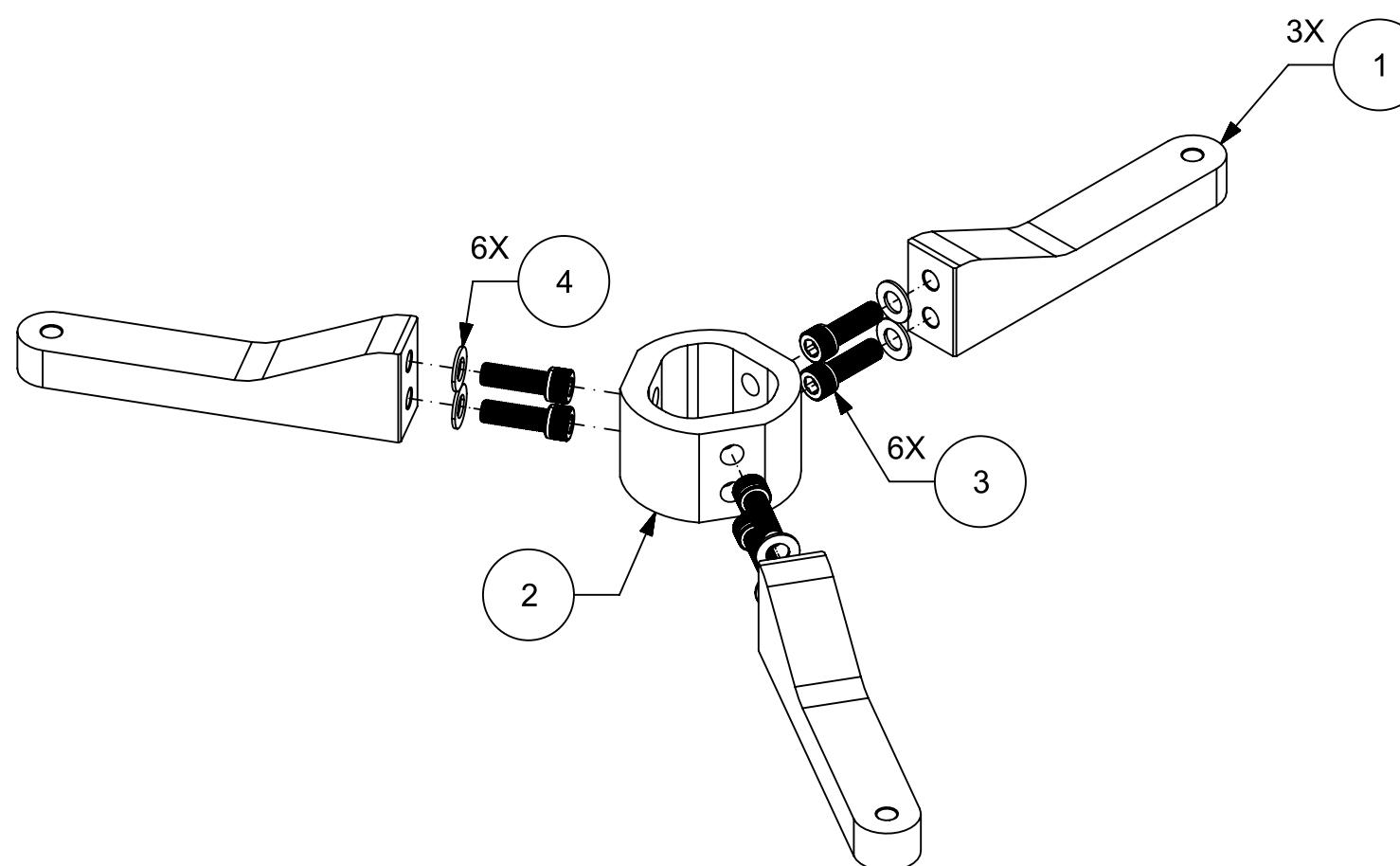
B

C

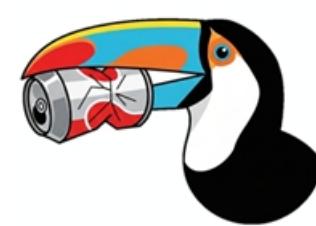
D

E

F



LABEL	PART NO	TOTAL QTY
1	C102-001 TOP STRUT	2
2	C101-002 HUB	2
3	MCM_901284A844_1-20-SOCKET_HEAD	12
4	MCM_92844A147_1-2_WASHER	12



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

PART NUMBER - TITLE

C102-501 TOP STRUCTURE ASSEMBLY

ENGINEER	M. LEWTON	SIZE B	MATERIAL	SHEET REV A		
DRAWN BY	T. KOESSLER					
CHECKED BY	A. ROBB	SCALE 1:1				
APPROVED BY	M. LEWTON	SHEET 3 OF 7				

1 2 3 4 6 7 B

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

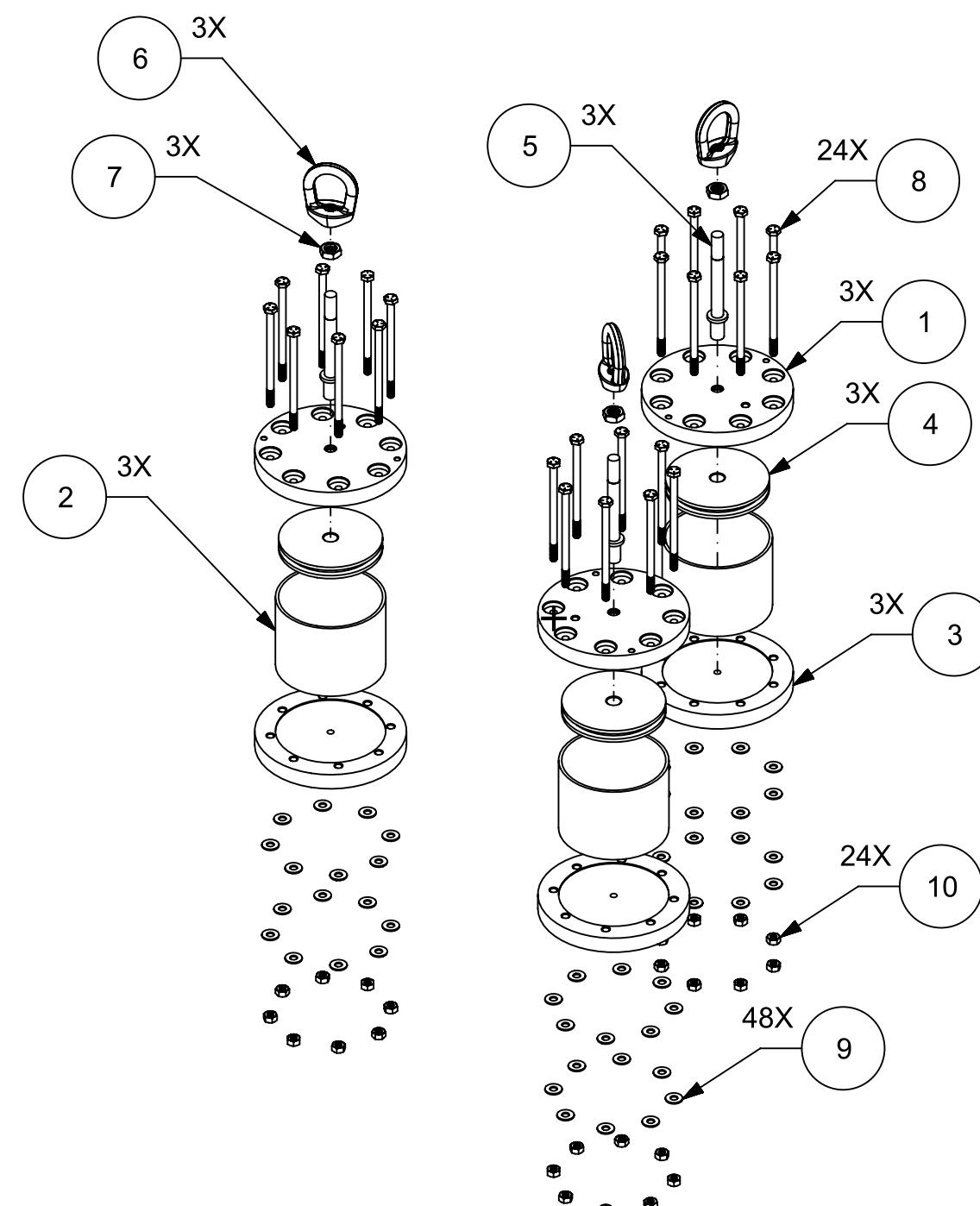
D

E

E

F

F



LABEL	PART NO	TOTAL QTY
1	C103-001 CYLINDER TOP CAP	3
2	C103-002 CYLINDER WALL	3
3	C103-003 CYLINDER BOTTOM CAP	3
4	C103-004 CYLINDER PISTON	3
5	C103-005 CYLINDER SHAFT	3
6	C103-006 CABLE NUT	3
7	94846A207-thin-jam-nut	3
8	94846A207-thin-jam-nut	24
9	MCM_98023A115_PNE_MAIN_WASHER	48
10	MCM_95505A601_PNE_MAIN_NUT	24



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

PART NUMBER - TITLE

C103-501 ACTUATOR ASSEMBLY

SIZE

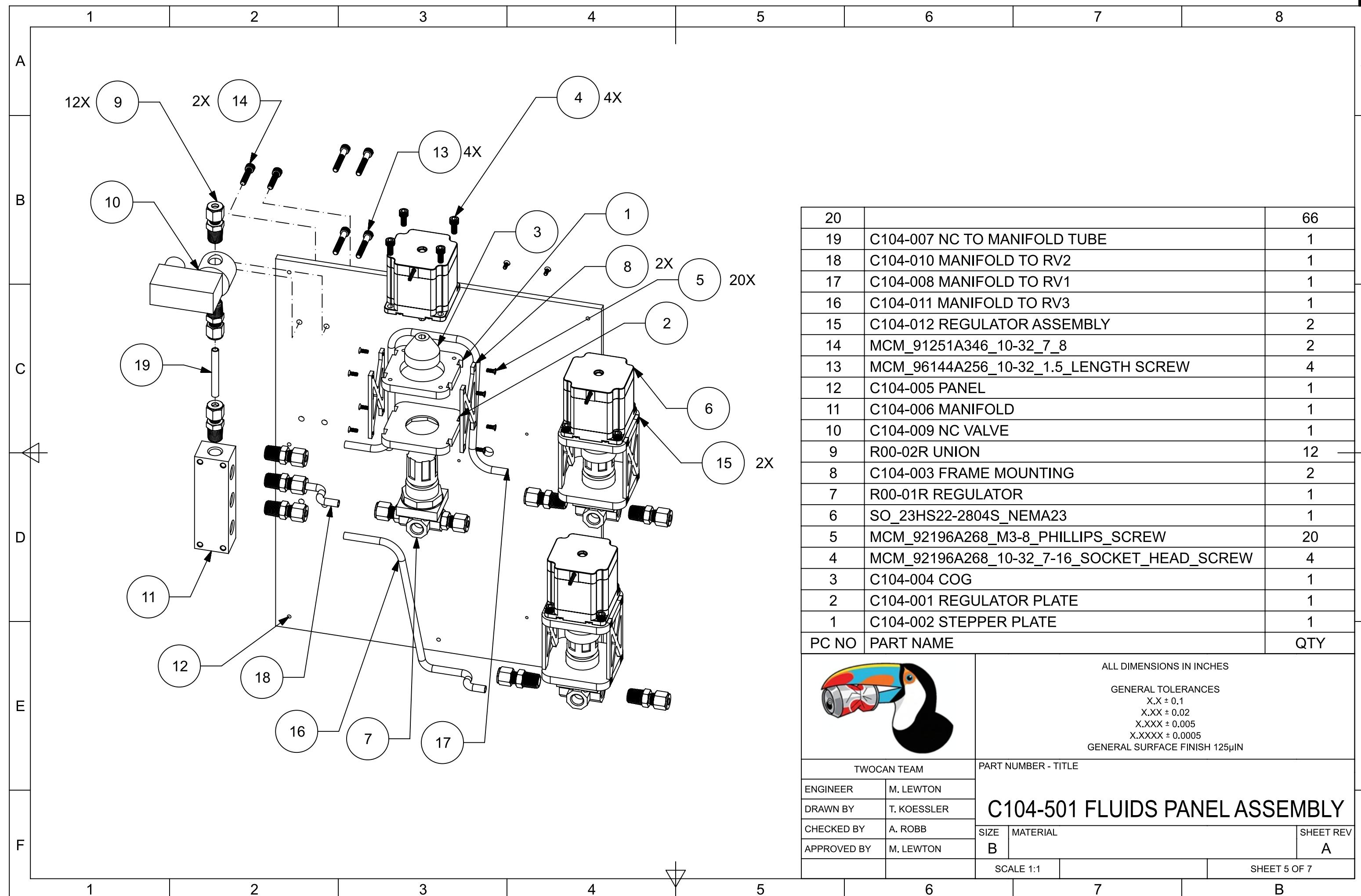
B

MATERIAL

A

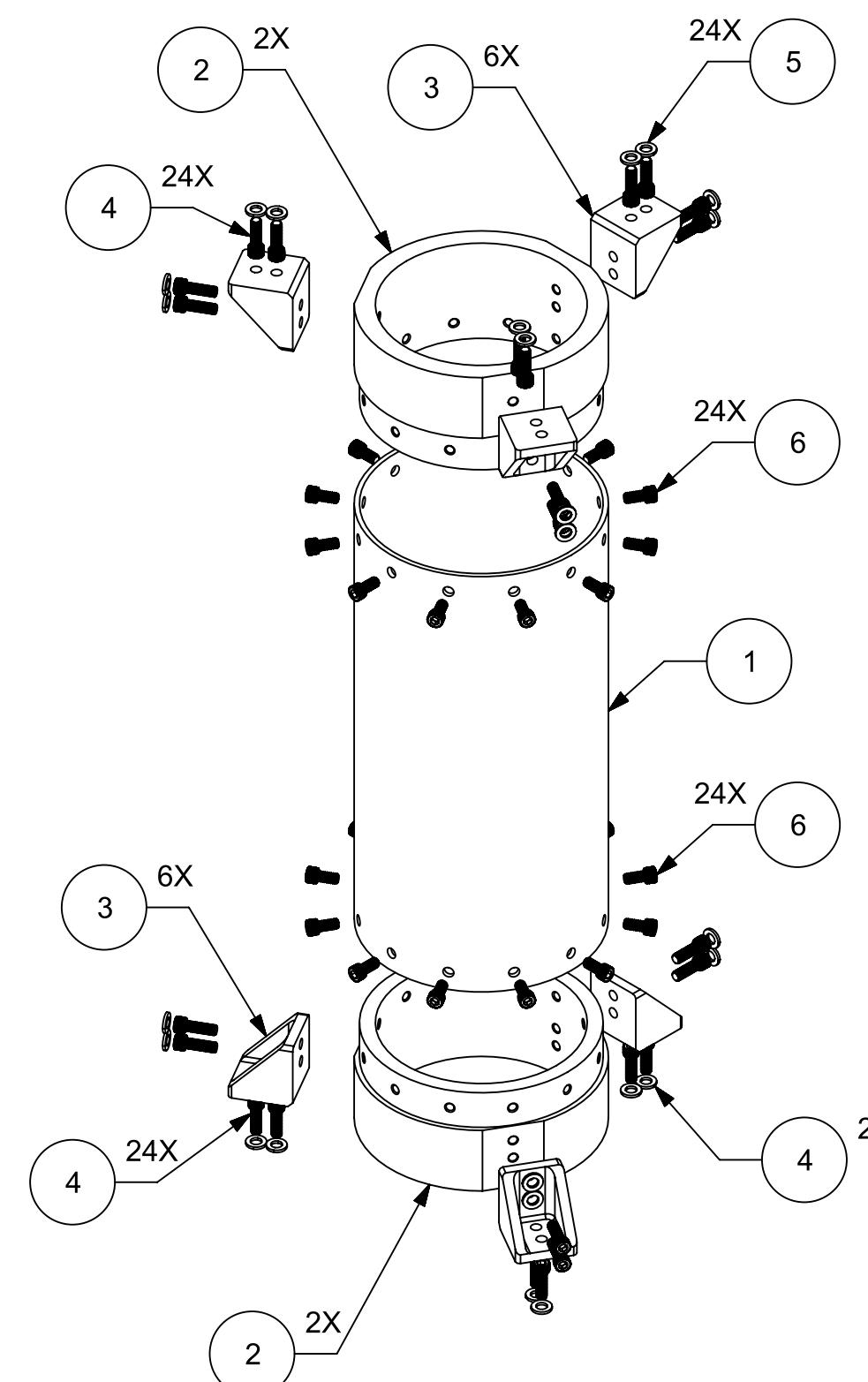
SCALE 1:1

SHEET 4 OF 7



1 2 3 4 5 6 7 8

A



B

C

D

E

F

A

B

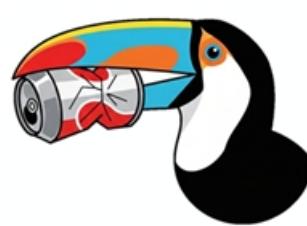
C

D

E

F

LABEL	PART NO	TOTAL QTY
1	C105-001 CUSTOMER AIRFRAME	1
2	C105-002 CUSTOMER CONNECTOR	2
3	C105-004 CONNECTOR BRACKET	6
4	MCM_90128A365_1-4-28_SOCKET_HEAD.prt	24
5	MCM_94744A516_1-4_WASHER	24
6	MCM_90128A844_1-2-20_SOCKET_HEAD	24



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

PART NUMBER - TITLE

C105-501 CUSTOMER HARDWARE ASSEMBLY

SIZE	MATERIAL	SHEET REV
B		A
	SCALE 1:1	SHEET 6 OF 7

1 2 3 4 5 6 7 8

A

B

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

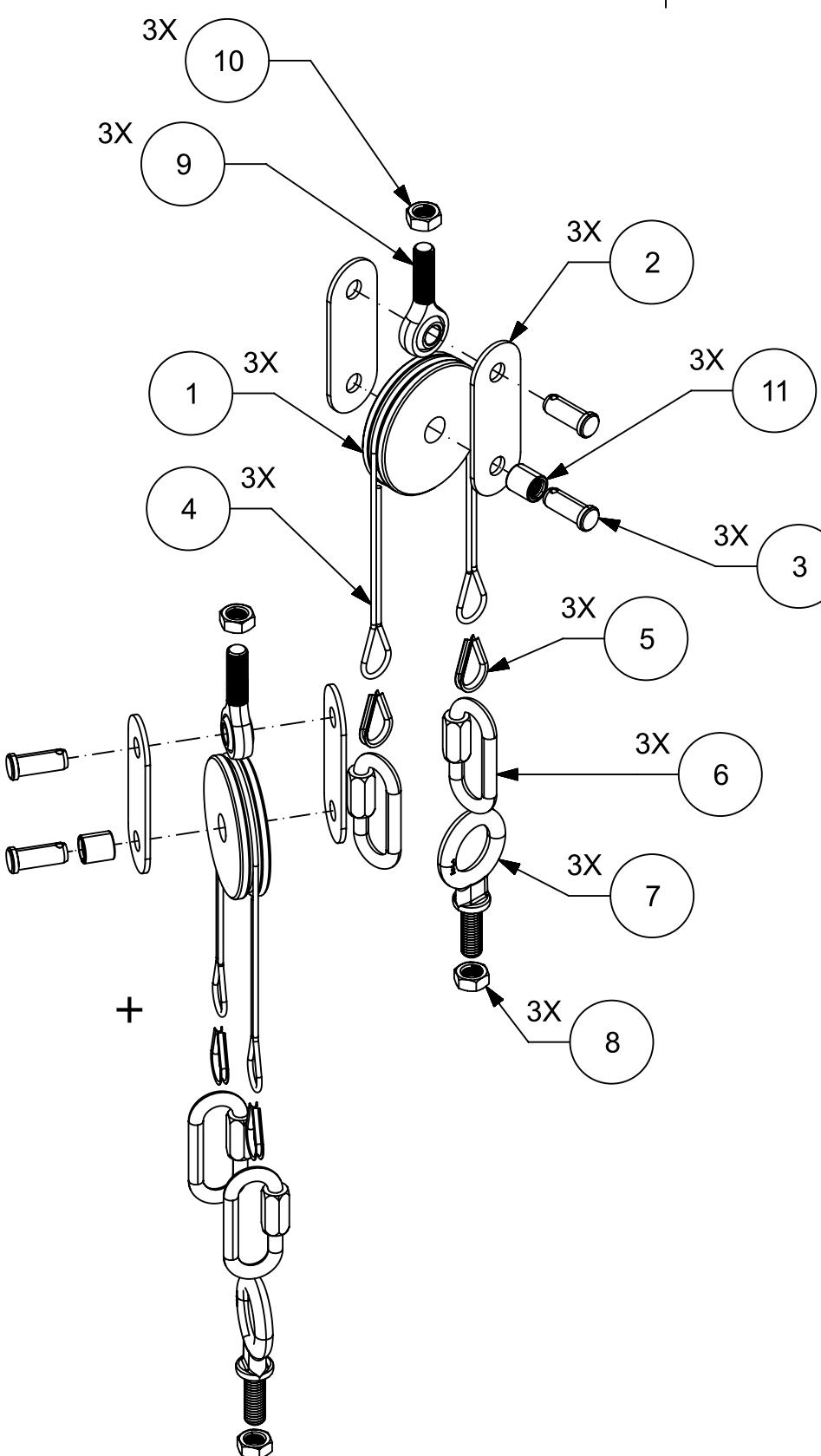
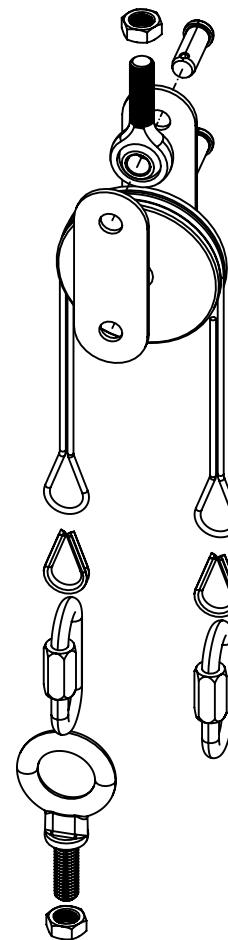
D

E

E

F

F



LABEL	PART NO	TOTAL QTY
1	C106-001 PULLEY3	1
2	C106-002 PULLEY PLATE	6
3	MCM_98306A951_1-2_CLEVIS PIN	6
4	C106-004 CABLE	3
5	MCM_3494T11_THIMBLE	6
6	MCM_8947T18_QUICK_LINK	6
7	MCM-3014T491_1-2-14_EYE_BOLT	3
8	MCM-94846A209 1-2-13 JAM NUT	3
9	MCM_60645K16_1-2_SPHERICAL_ROD_END	3
10	MCM-94846A209_1-2-20 JAM NUT	3
11	MCM_5905K502_NEEDLE_BEARING	3



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

PART NUMBER - TITLE

C100-501 PULLEY CHAIN ASEMBLY

SIZE

MATERIAL

SHEET REV

A

SCALE 1:1

SHEET 7 OF 7

1 2 3 4 5 6 7 B

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

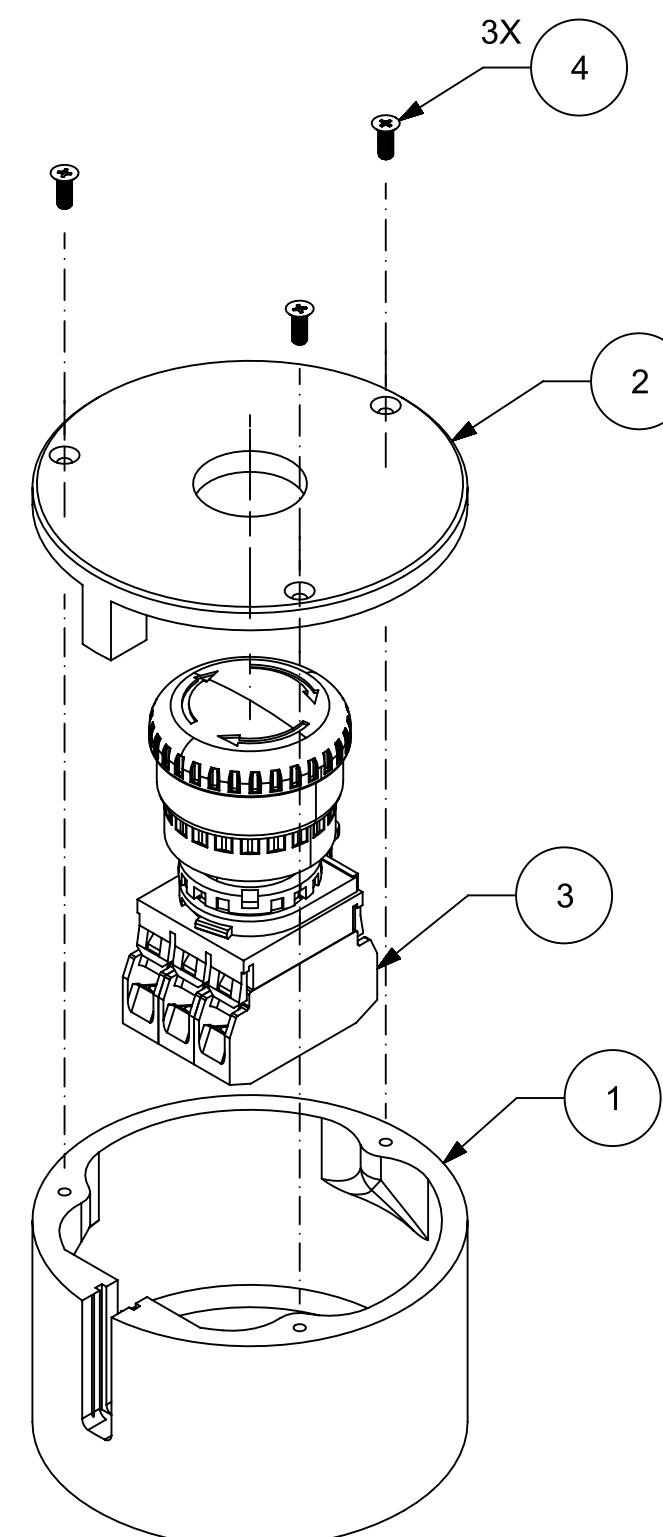
D

E

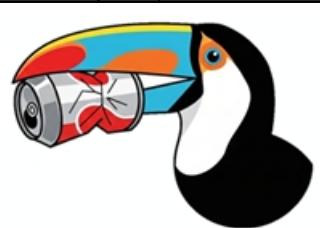
E

F

F



LABEL	PART NO	TOTAL QTY
1	C107-001 ESTOP BOX	1
2	C107-001 ESTOP LID	1
3	YW1B-V4E01R_ESTOP	1
4	MCM_92196A268_M3-8_PHILLIPS_SCREW	3



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

TWO CAN TEAM

ENGINEER TREVOR KOESSLER

DRAWN BY TREVOR KOESSLER

CHECKED BY A. ROBB

APPROVED BY M. LEWTON

PART NUMBER - TITLE

C107-501 ESTOP BOX ASSEMBLY

SHEET REV

A

SCALE 1:1

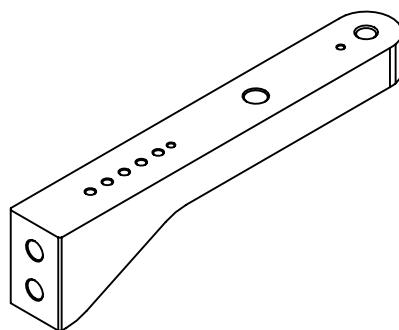
SHEET 1 OF 1

1 2 3 4 5 6 7 8



1 2 3 4 5 6 7 8

A NOTES:
1. BREAK ALL EDGES WITH CHAMFER NO LARGER THAN .010
2. ALL SURFACES  .020 A B C UNLESS OTHERWISE SPECIFIED



The technical drawing illustrates a rectangular component with various features. In the top-left corner, there is a note '2X 0.05 x 45°' with an arrow pointing to a diagonal cut. Along the top edge, there are five small circular holes, each labeled with a dimension of '(Ø0.159)' and preceded by a plus sign. Below these holes, there is a note '5X (Ø0.213)' with an arrow pointing to a larger circular feature. On the right side, there is a note 'R0.75' with an arrow pointing to a rounded corner. At the bottom, there are two notes: one for a central hole labeled 'Ø 0.504 THRU Ø 0.509' and another for a larger hole labeled '(Ø0.422)'. Below the drawing, there are four tables, each with a header and three columns labeled A, B, and C.

+	Ø.010(M)	A B C
+	Ø.008(M)	A B C
+	Ø 018(M)	A B C
+	Ø.018(M)	A B C

Dimensions and notes:

- 2X 0.05 x 45°
- 5X (Ø0.213)
- 2X (Ø0.159)
- R0.75
- Ø 0.504 THRU Ø 0.509
- (Ø0.422)
- 1/4-28 UNF-2B ↴ .75
- #10-32 UNF-2B ↴ THRU
- LC9 (H10/d9)
- 1/2-13 UNC-2B ↴ THRU

Technical drawing showing a cross-sectional view of a mechanical part. The part has a height of 2.375 and a width of 1.500 STK. A central vertical slot has a width of 1.000. Two holes are located at the top, each with a diameter of 0.453 and a depth of 1.75. A shoulder on the left side has a height of 0.688 and a tolerance of ±.015 A. Feature C is located at the bottom left corner.

B

± .015 A

(0.688)

2.375

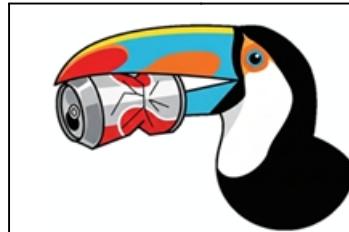
1.000

1.500 STK

C

2X ($\varnothing 0.453$)
1/2-20 UNF-2B ↓ 1.75
⊕ $\varnothing 0.018 \text{ M}$ A B

The technical drawing shows a part labeled 'A'. It consists of a base plate with a thickness of 0.185 and a top flange with a height of .005. The top edge has a vertical cutout with a depth of 25.37. The bottom edge features two semi-circular radii, each with a radius of R1.40. The total width of the part is 10.52. The drawing includes a coordinate system with the origin at the top right corner of the base plate.



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

± 0.1

$\bar{X} \pm 0.02$

$\times \pm 0.005$

X.XXXX ± 0.0005

TWOCAN TEAM

PART NUMBER - TITLE

GINEER M. LEW

1

AWN BY M. LEW

1

HECKED BY | A. ROB

SIZE

C101-001 STRUT

STEEL 4140

SHEET REV
A

SHEET 1 OF 1

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A

NOTES:

1. BREAK ALL EDGES WITH CHAMFER NO LARGER THAN .010

2. ALL SURFACES  .020 A B C UNLESS OTHERWISE SPECIFIED

B

C

D

E

F

A

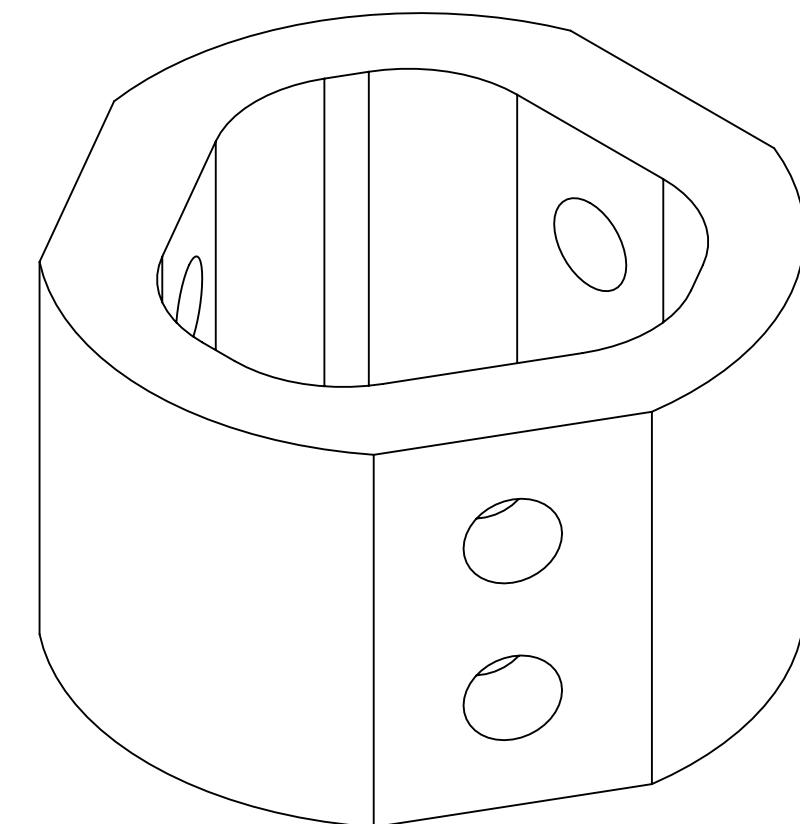
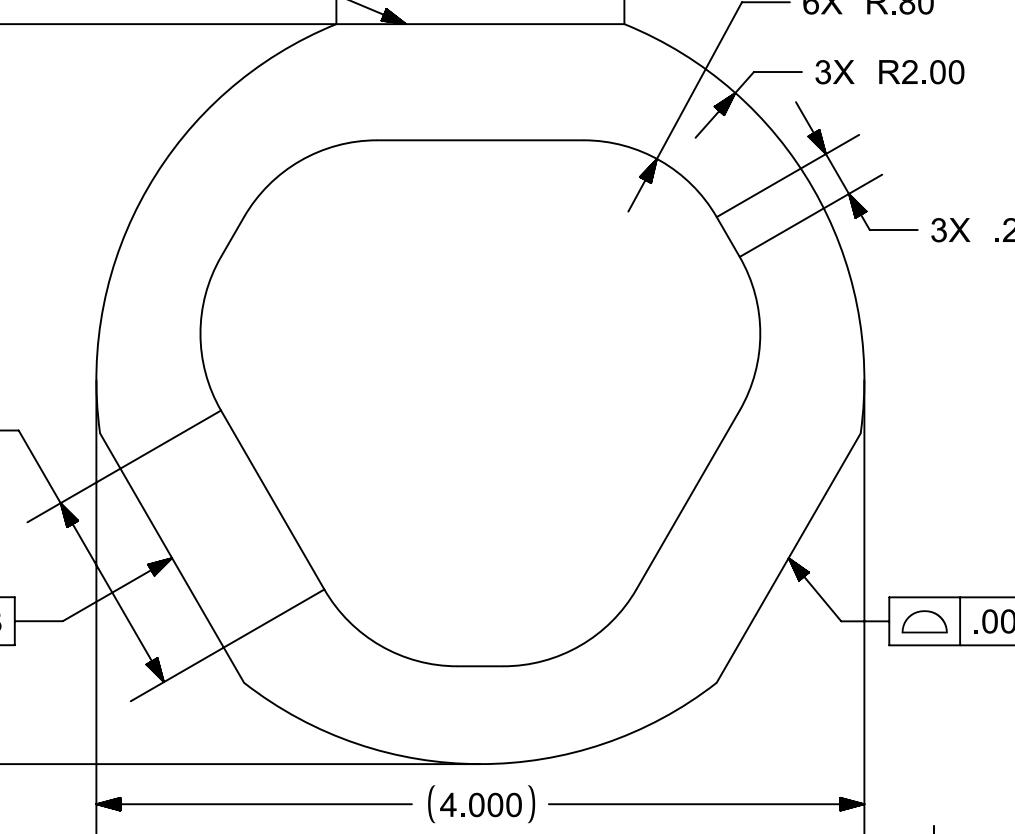
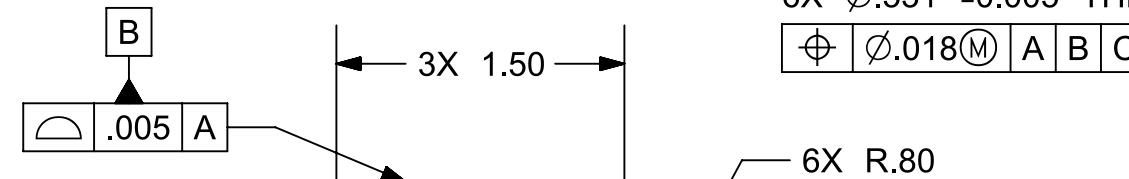
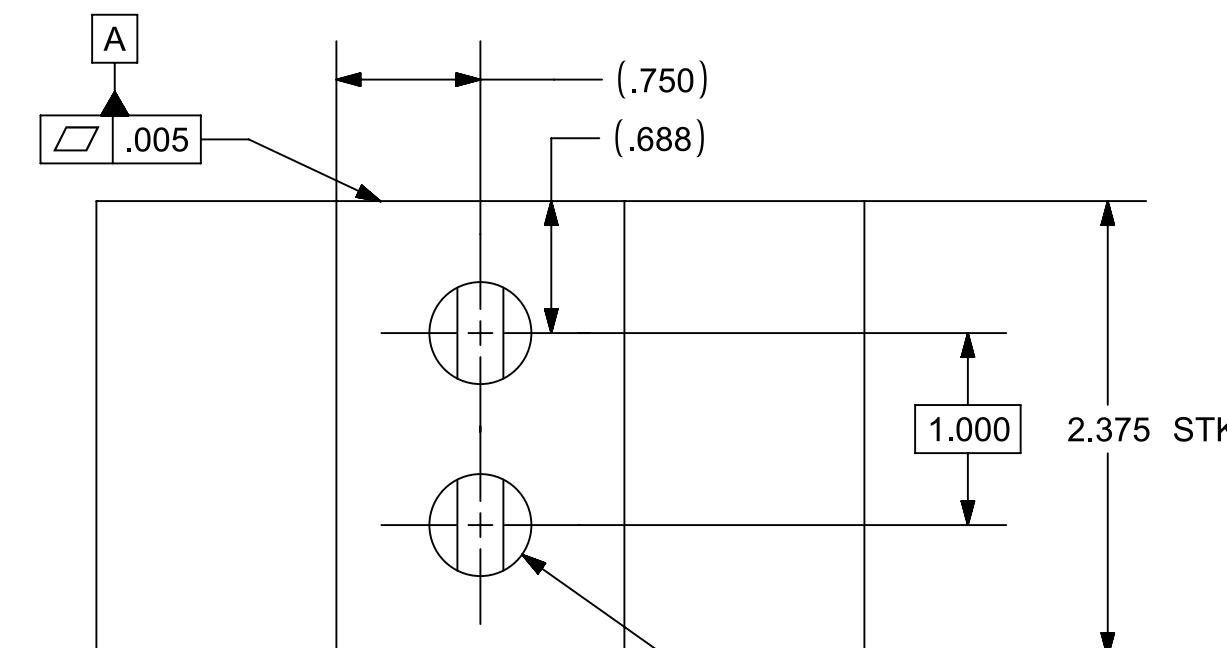
B

C

D

E

F



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125 μ IN

PART NUMBER - TITLE

C101-002 HUB

SIZE	MATERIAL	SHEET REV
B	ALUMINUM 7055-T74511	A
	SCALE 1:1	
		SHEET 1 OF 1

1 2 3 4 5 6 7 8

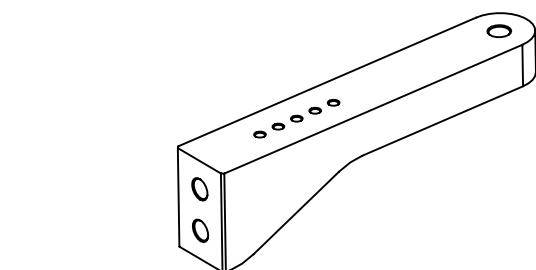
A

B

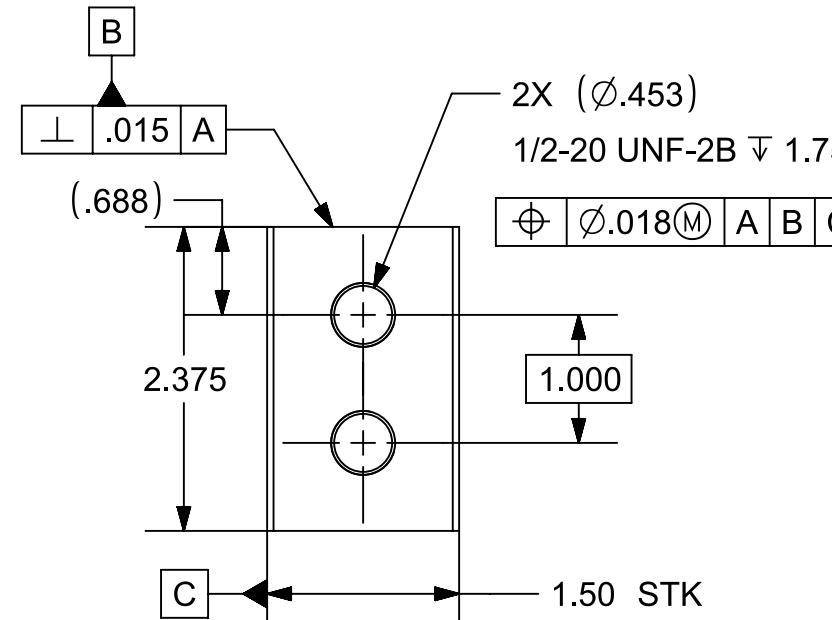
1 2 3 4 5 6 7 8

A
NOTES:
1. BREAK ALL EDGES WITH CHAMFER NO LARGER THAN .010
2. ALL SURFACES .020 A B C UNLESS OTHERWISE SPECIFIED

B



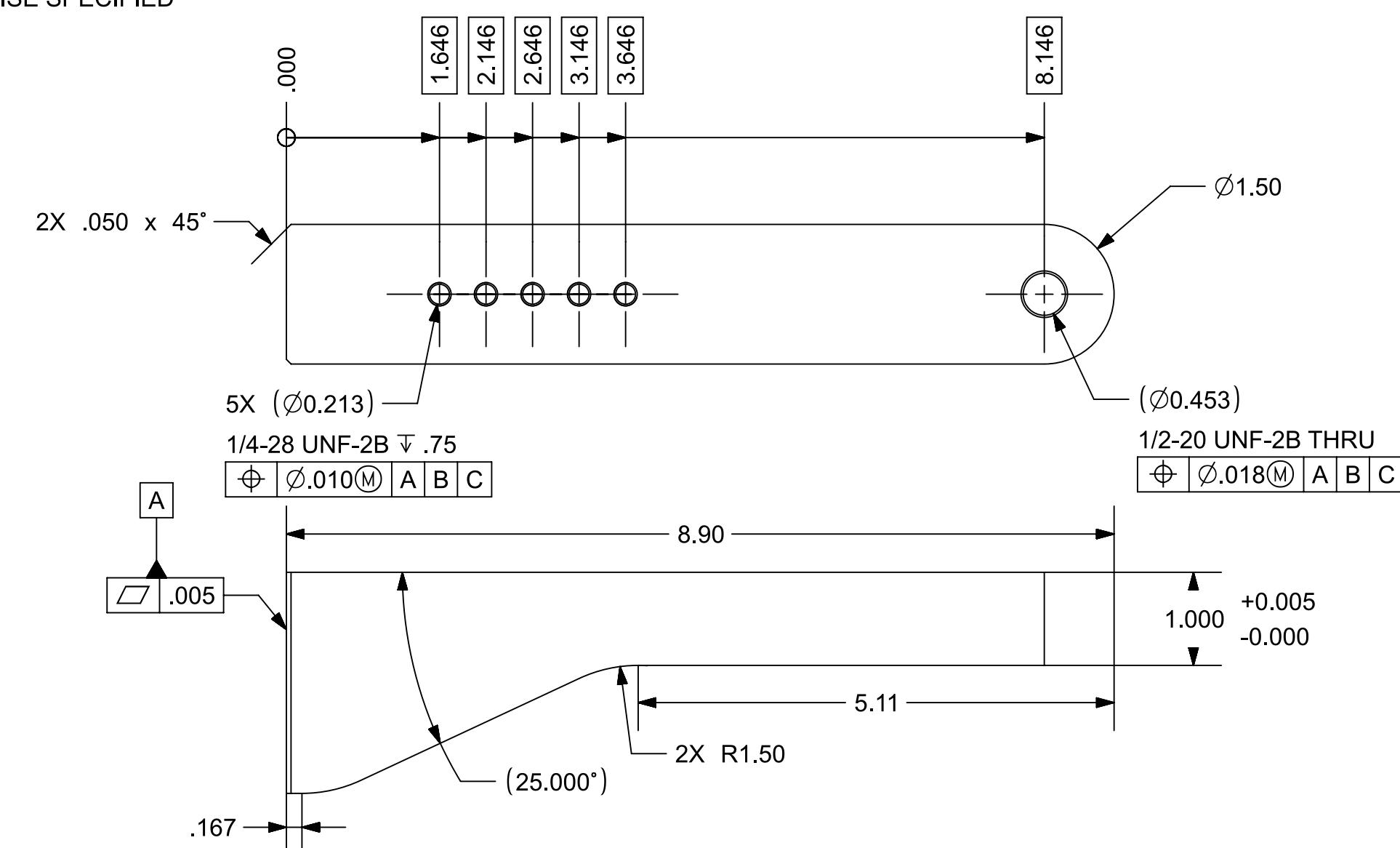
C



D

E

F



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

 $X.X \pm 0.1$ $X.XX \pm 0.02$ $X.XXX \pm 0.005$ $X.XXXX \pm 0.0005$ GENERAL SURFACE FINISH 125 μ IN

PART NUMBER - TITLE

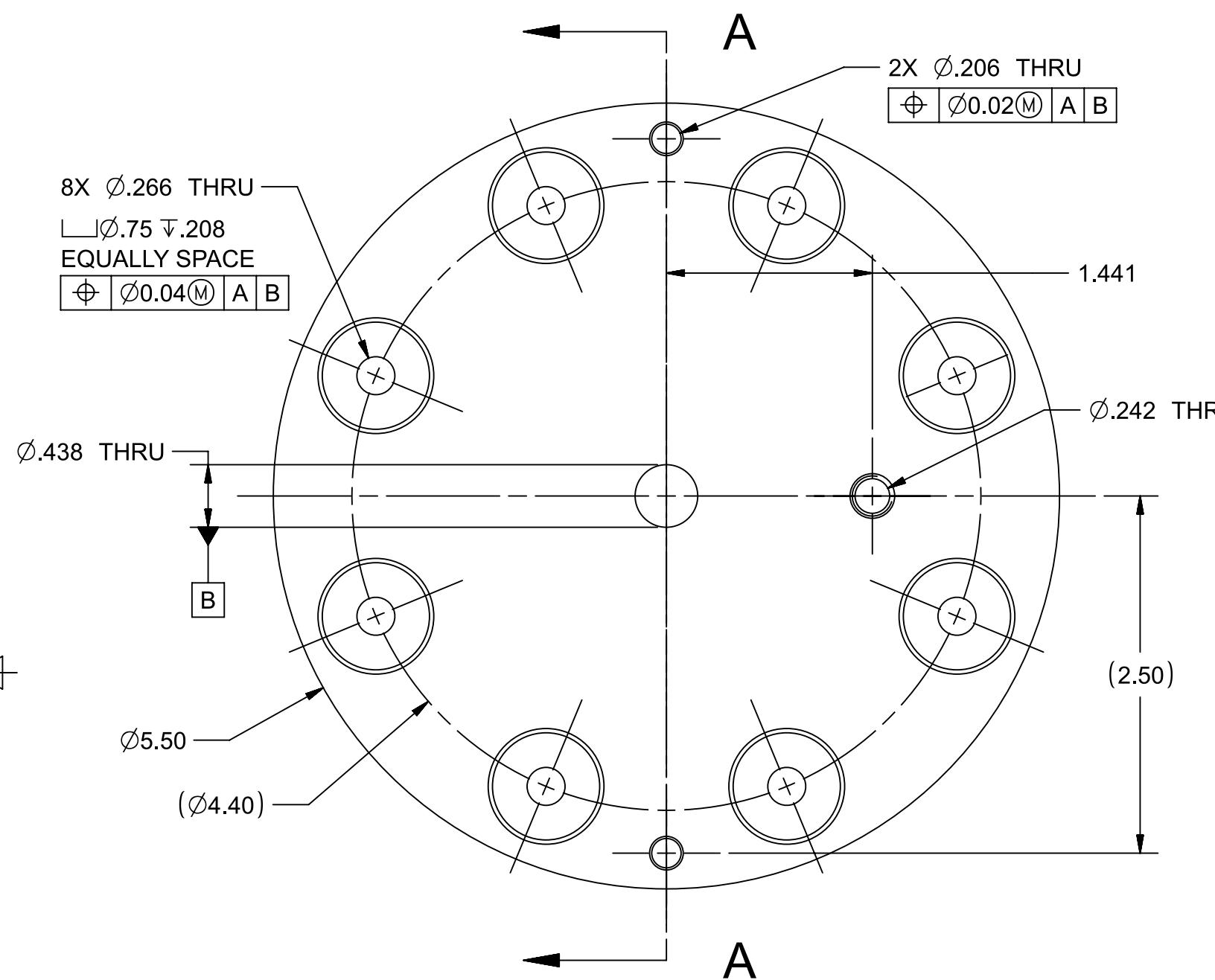
C102-001 TOP STRUT

ENGINEER	M. LEWTON	SIZE	MATERIAL	SHEET REV
DRAWN BY	M. LEWTON			
CHECKED BY	A. ROBB			
APPROVED BY	M. LEWTON			
		SCALE 2:3		SHEET 1 OF 1

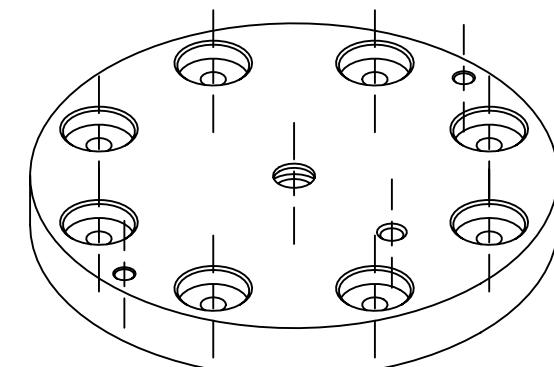
1 2 3 4 5 6 7 B

1 2 3 4 5 6 7 8

A



B



SCALE 1:2

C

D

E

F

A

4

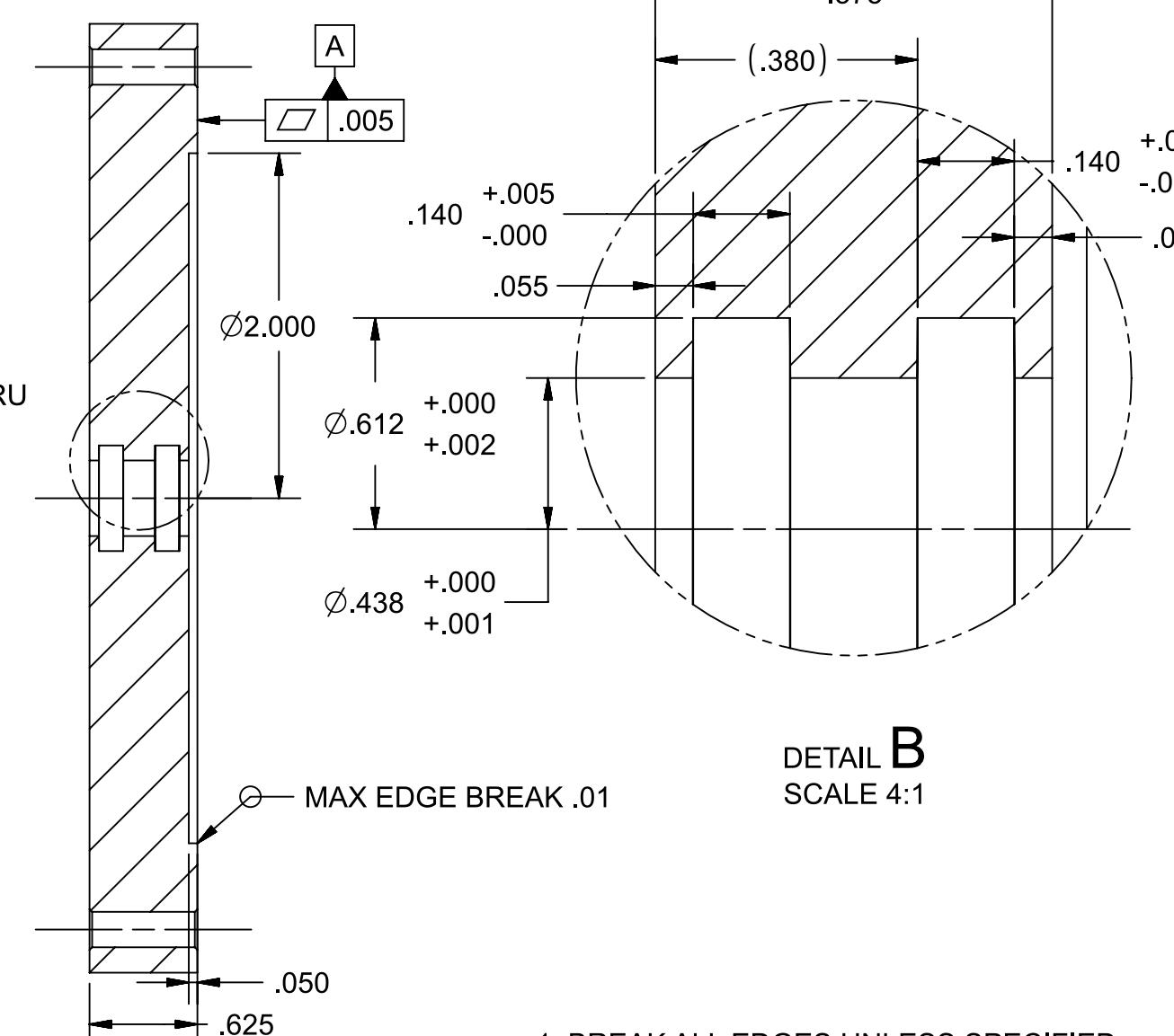
5

6

7

A

8



DETAIL B
SCALE 4:1

1. BREAK ALL EDGES UNLESS SPECIFIED

SECTION A-A



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

PART NUMBER - TITLE

C103-001 CYLINDER TOP CAP

ENGINEER	J DAMIKOLAS	SIZE	MATERIAL	SHEET REV
DRAWN BY	B LAMARCA			
CHECKED BY	A. ROBB	B	AL-2024-T3511	A
APPROVED BY	M. LEWTON			
SCALE 1:1		SCALE 1:1		SHEET 1 OF 1
				B

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

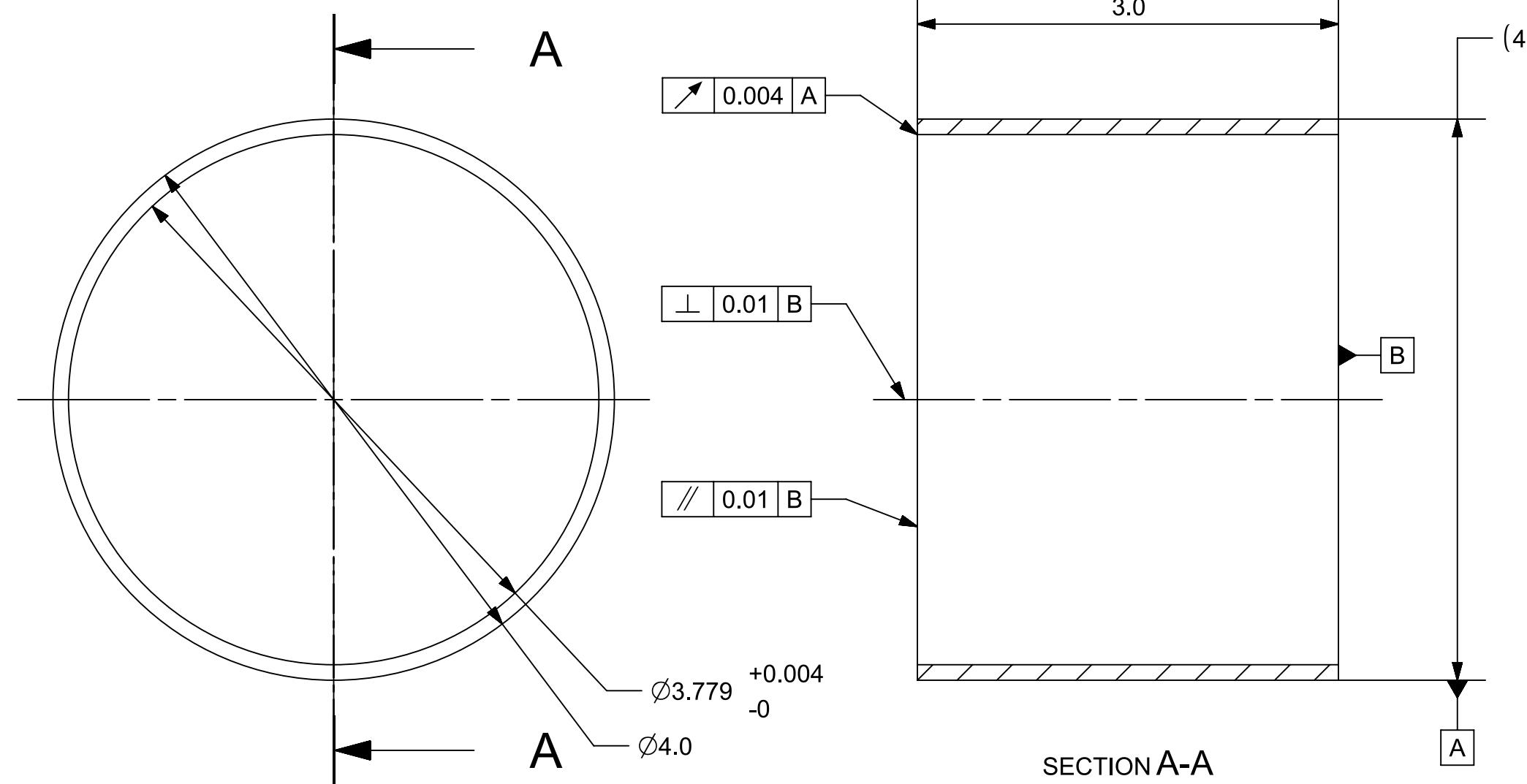
D

E

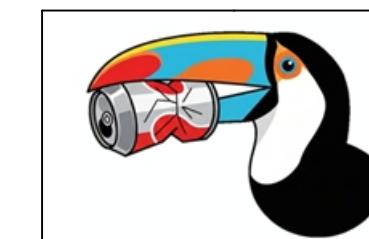
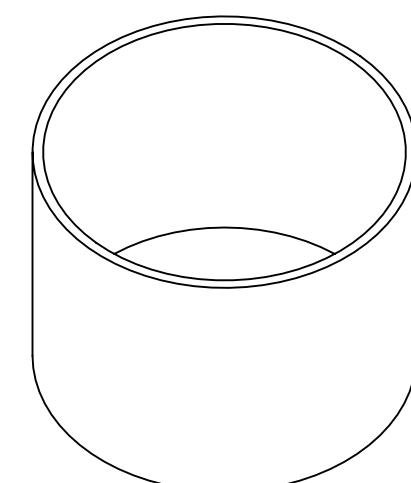
E

F

F



SCALE 1:2



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

PART NUMBER - TITLE

C103-002 CYLINDER WALL

ENGINEER	J. DAMIKOLAS	SHEET REV	A
DRAWN BY	J. DAMIKOLAS		
CHECKED BY	A. ROBB		
APPROVED BY	M. LEWTON		
SIZE	MATERIAL	ALUMINUM 6061-T6	
B			
		SCALE 1:1	
			SHEET 1 OF 1

1 2 3 4 5 6 7 8

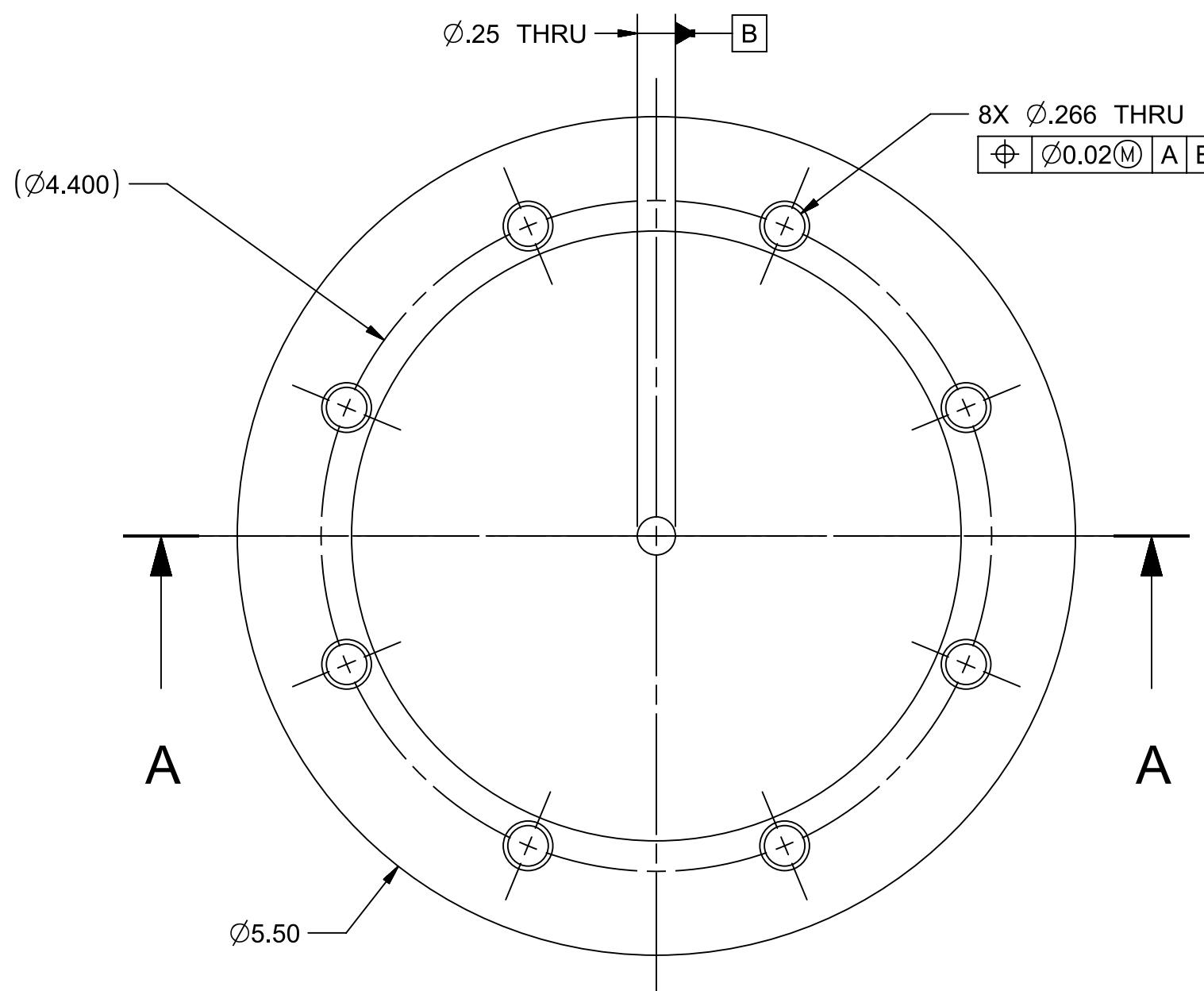


1 2 3 4 5 6 7 8

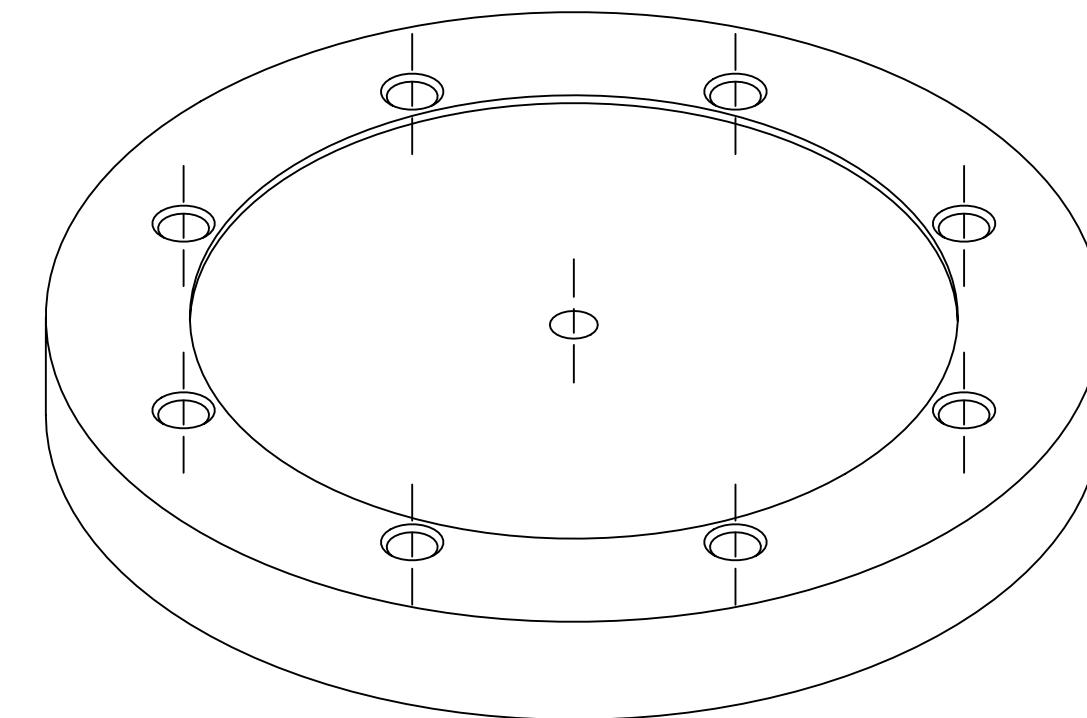
B

1 2 3 4 5 6 7 8

A



B

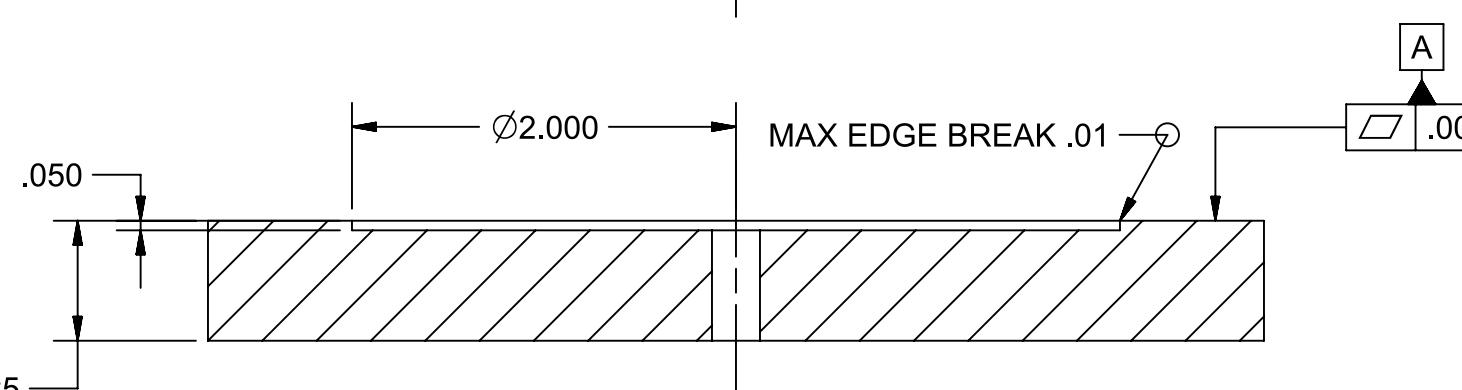


C

D

E

F



SECTION A-A

1 2 3 4 5 6 7 B



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

$X.X \pm 0.1$

$X.XX \pm 0.02$

$X.XXX \pm 0.005$

$X.XXXX \pm 0.0005$

GENERAL SURFACE FINISH $125\mu\text{IN}$

PART NUMBER - TITLE

C103-003 CYLINDER BOTTOM CAP

ENGINEER B. LAMARCA

DRAWN BY B. LAMARCA

CHECKED BY A. ROBB

APPROVED BY M. LEWTON

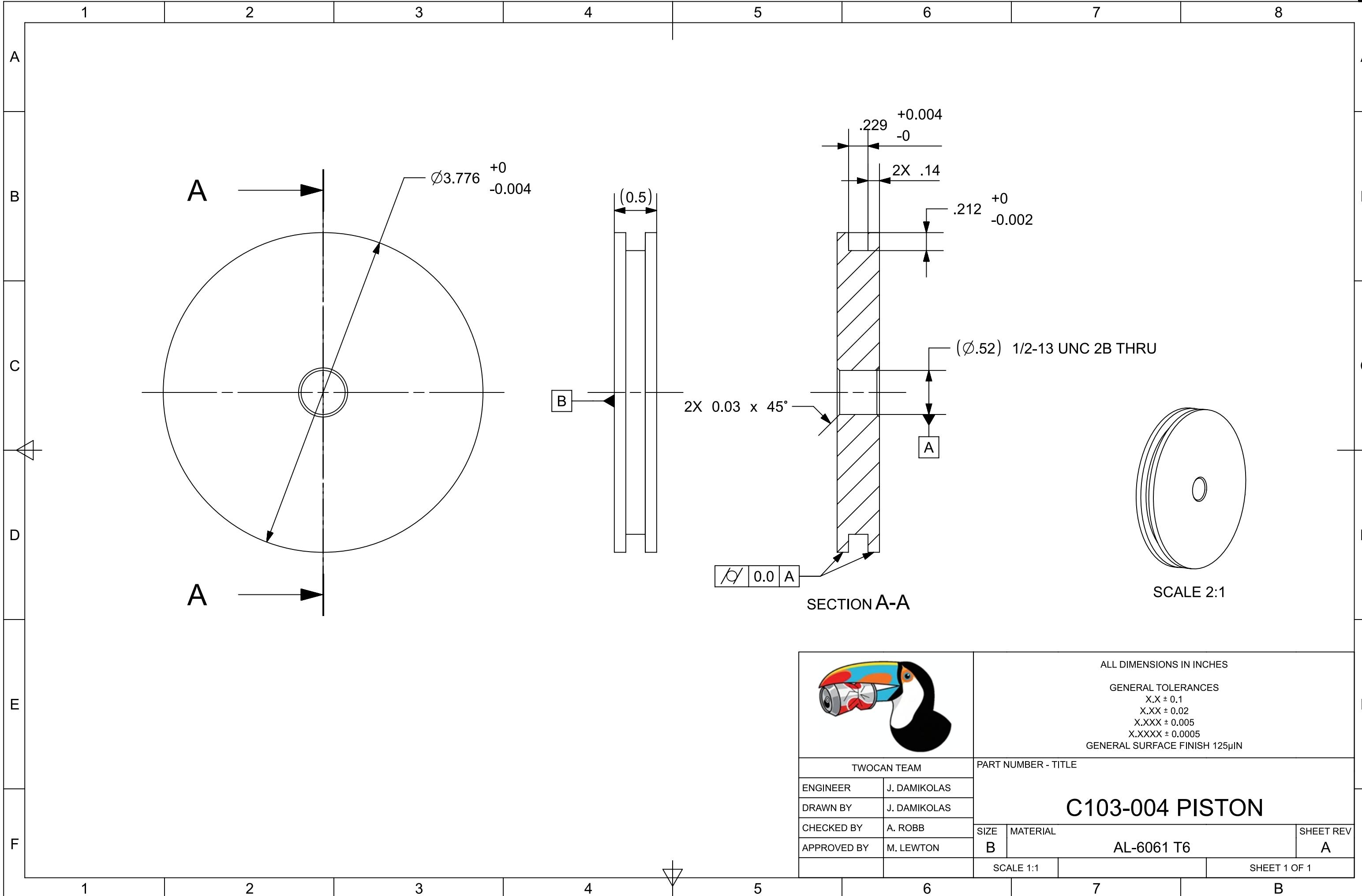
SIZE MATERIAL

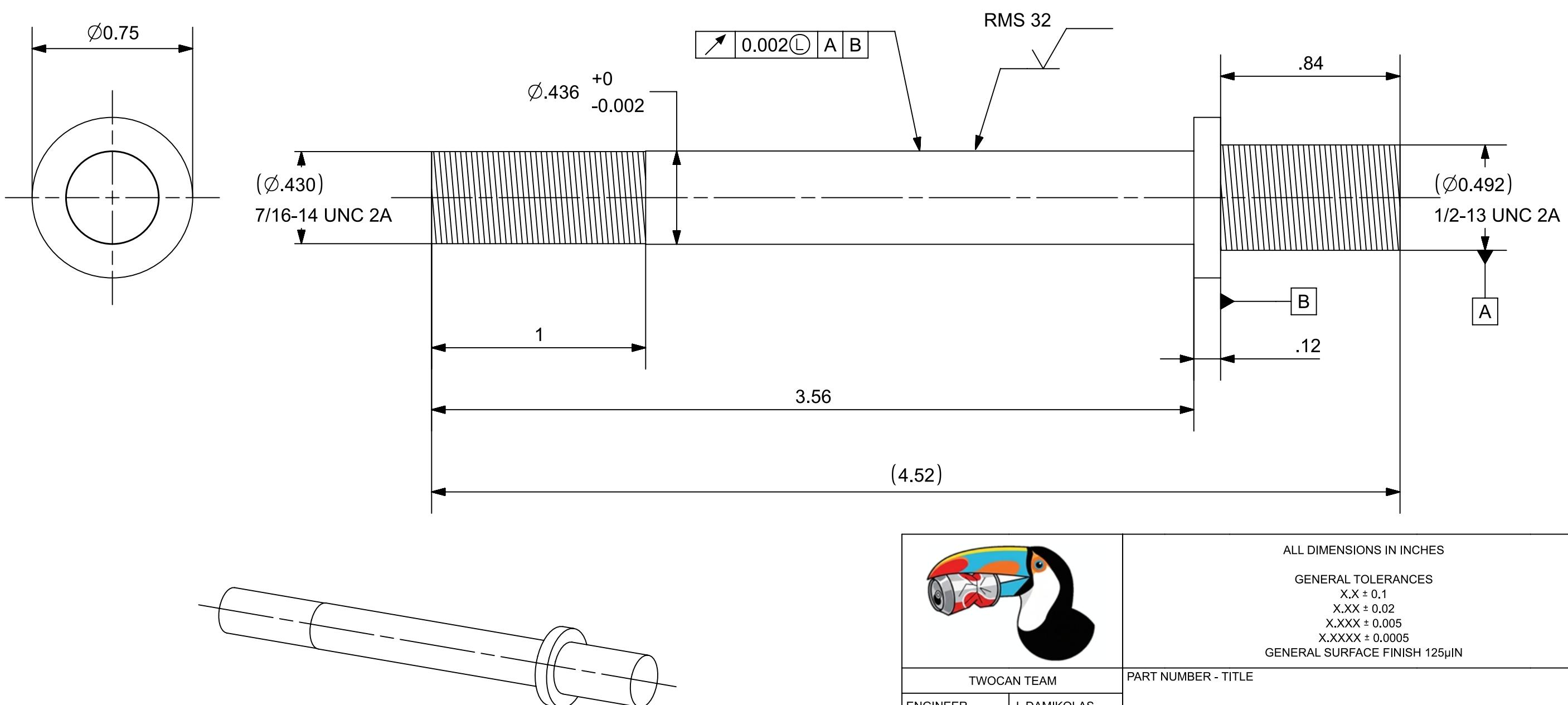
B AL-2024-T3511

SHEET REV A

SCALE 1:1 SHEET 1 OF 1

1 2 3 4 5 6 7 8





SCALE 1:1



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

± 0.1

$\langle X \rangle \pm 0.02$

$\times 10^{-3} \pm 0.005$

$\times 10^{-5}$

GENERAL SURFACE FINISH 125µIN

PART NUMBER - TITLE

C103-005 CYLINDER SHAFT

SHEET REV

T 1 OF 1

SHEET 1 OF 1

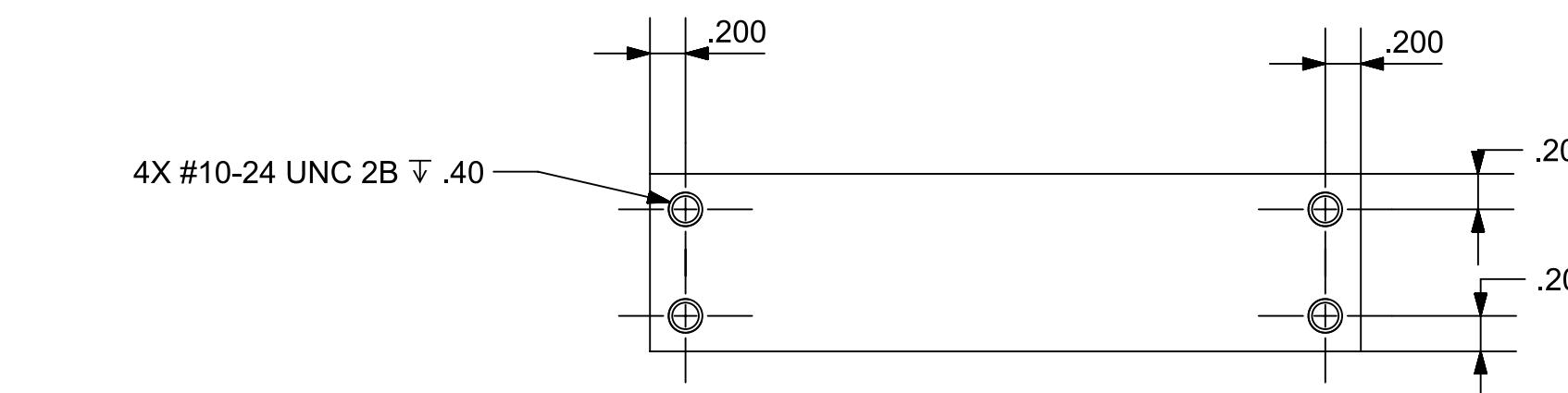
SCALE 2:1

STEEL 1144

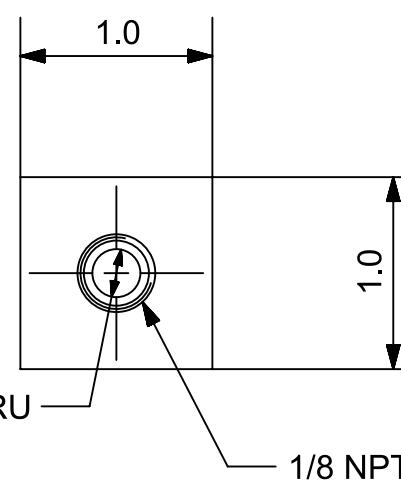
SHEET 1 OF 1

1 2 3 4 5 6 7 8

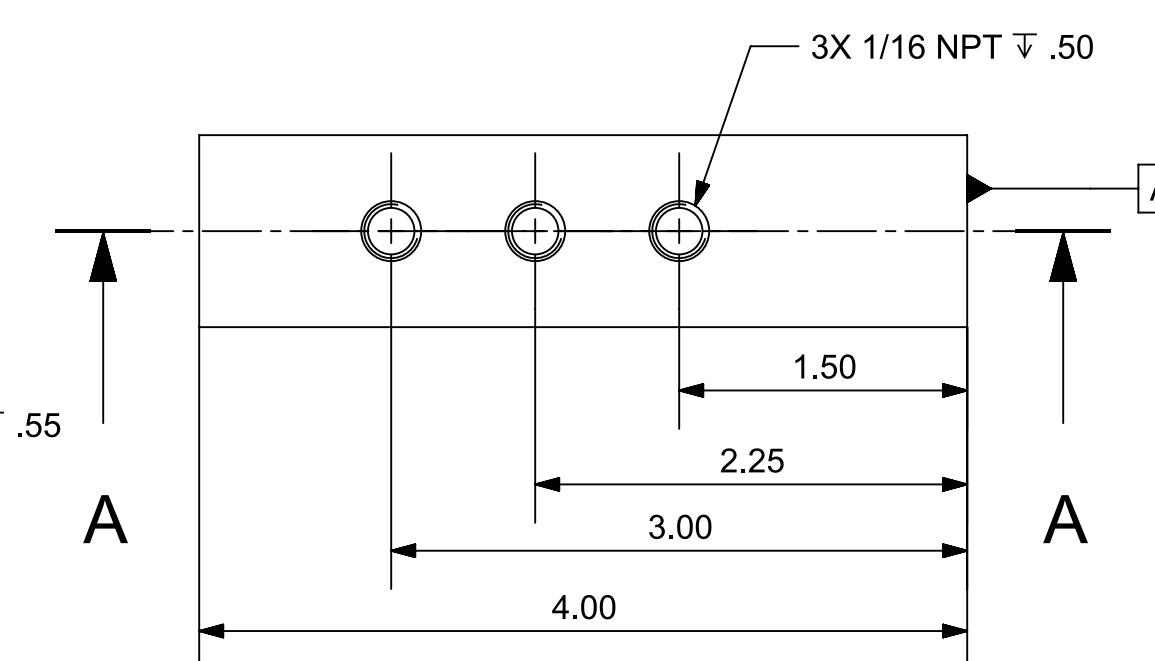
A



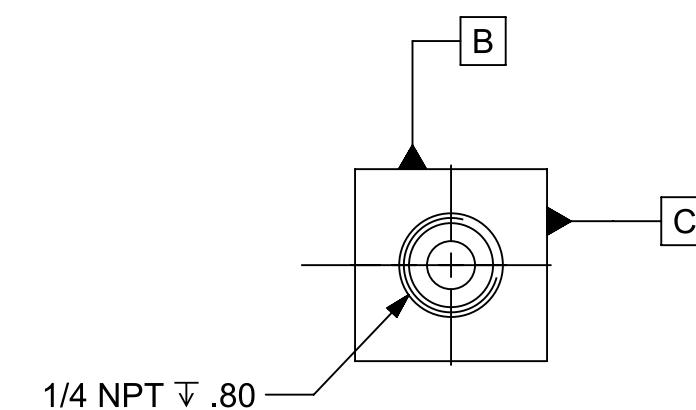
B



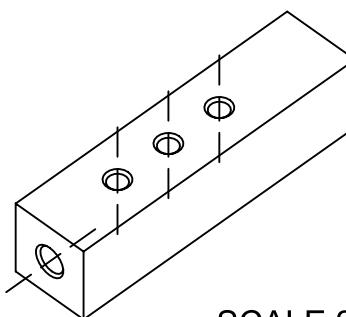
C



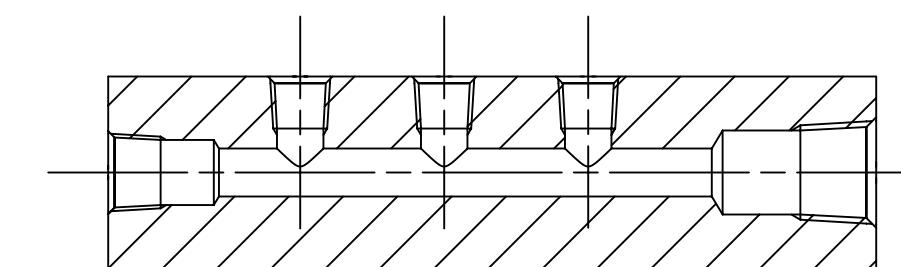
D



E



SCALE 2:1



SECTION A-A

F

BREAK ALL SHARP EDGES AND REMOVE ALL BURRS

ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

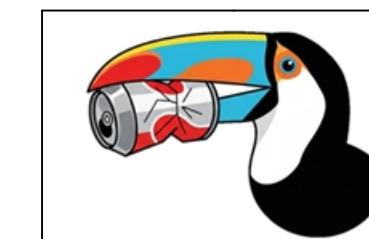
X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125 μ IN



PART NUMBER - TITLE

C103-006 - MANIFOLD

TWOCAN TEAM

ENGINEER

J. DAMIKOLAS

DRAWN BY

J. DAMIKOLAS

CHECKED BY

A. ROBB

APPROVED BY

M. LEWTON

SIZE

MATERIAL

AL-6061 T4

SHEET REV

A

SCALE 1:1

SHEET 1 OF 1

1

2

3

4

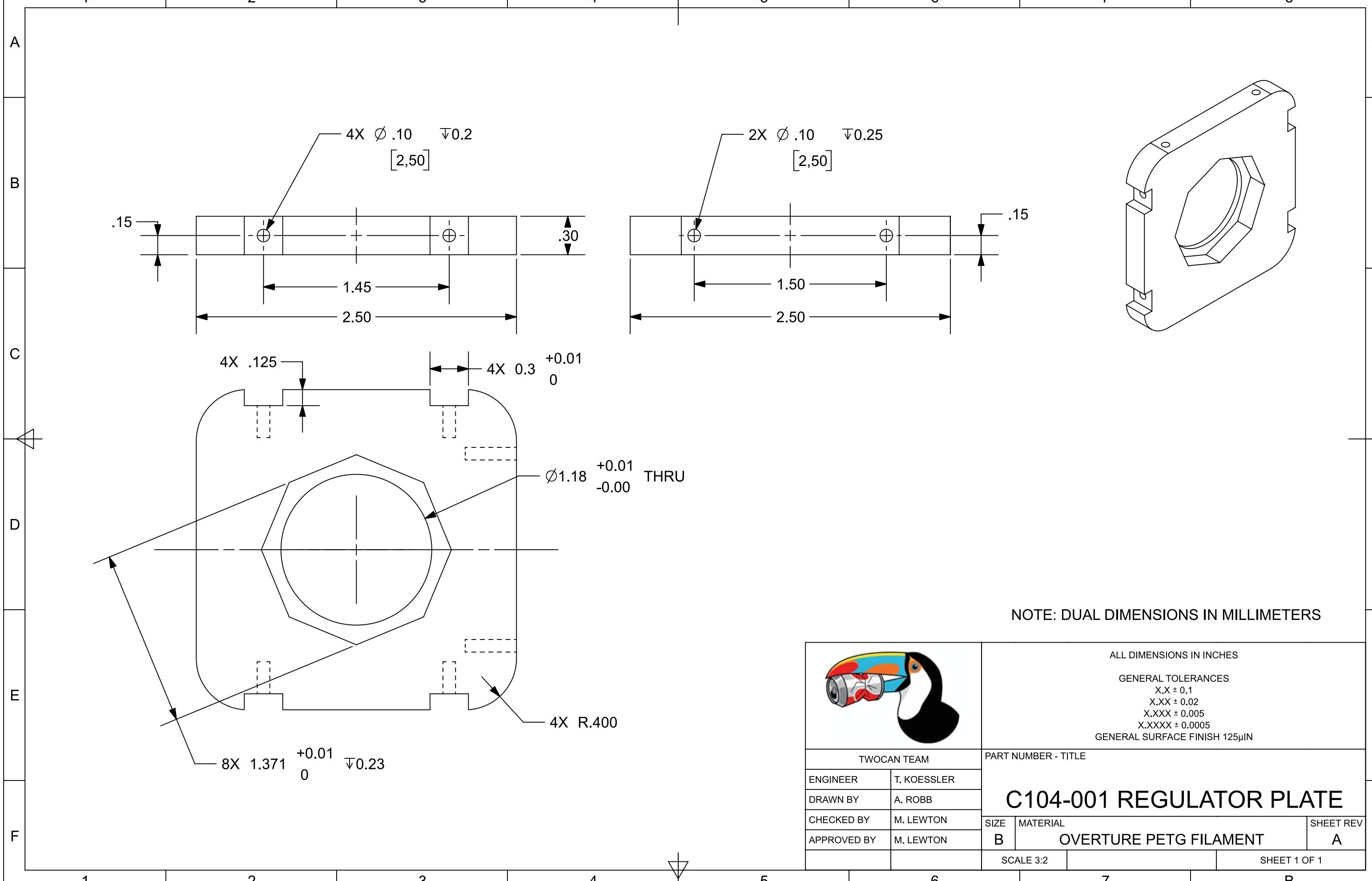
5

6

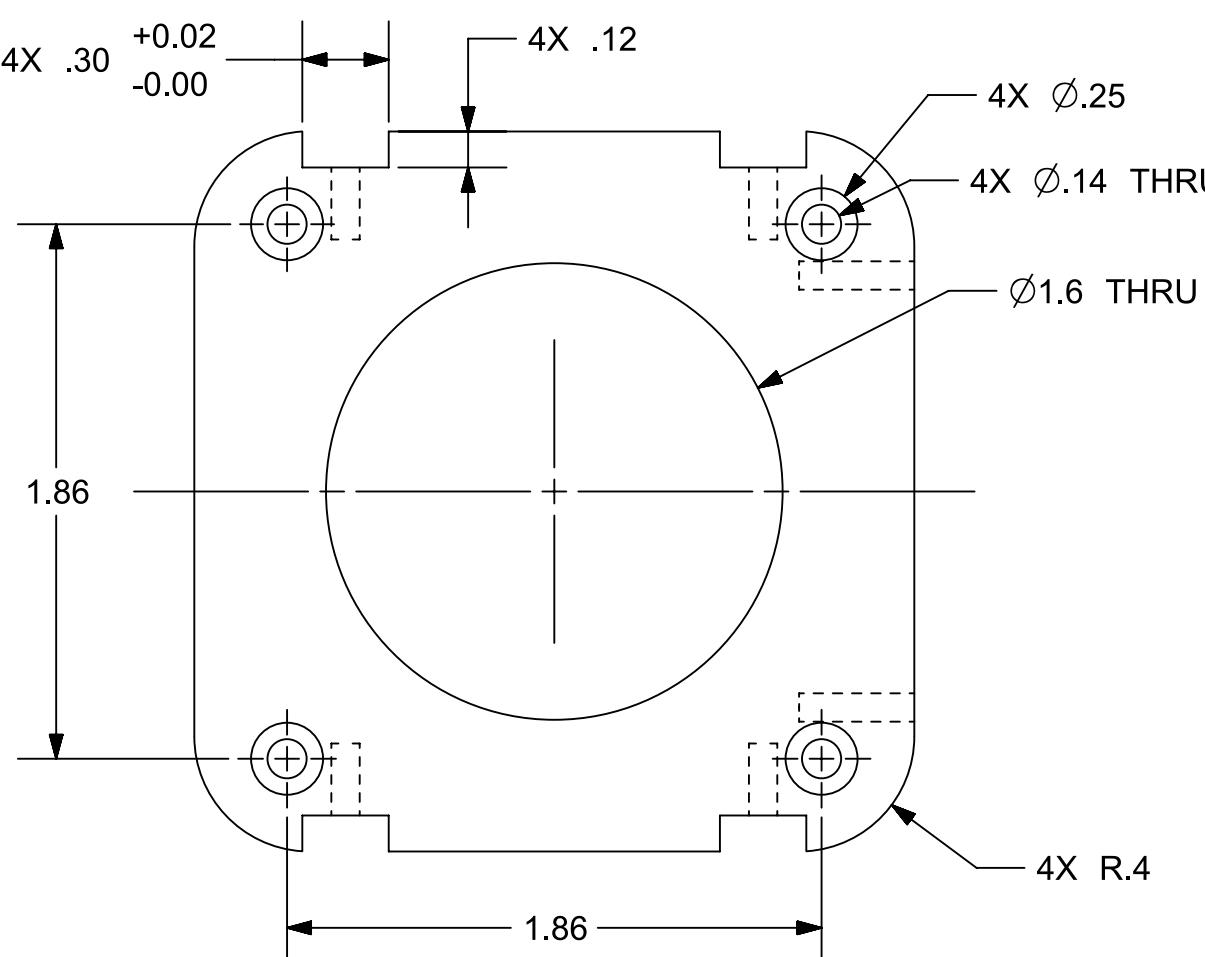
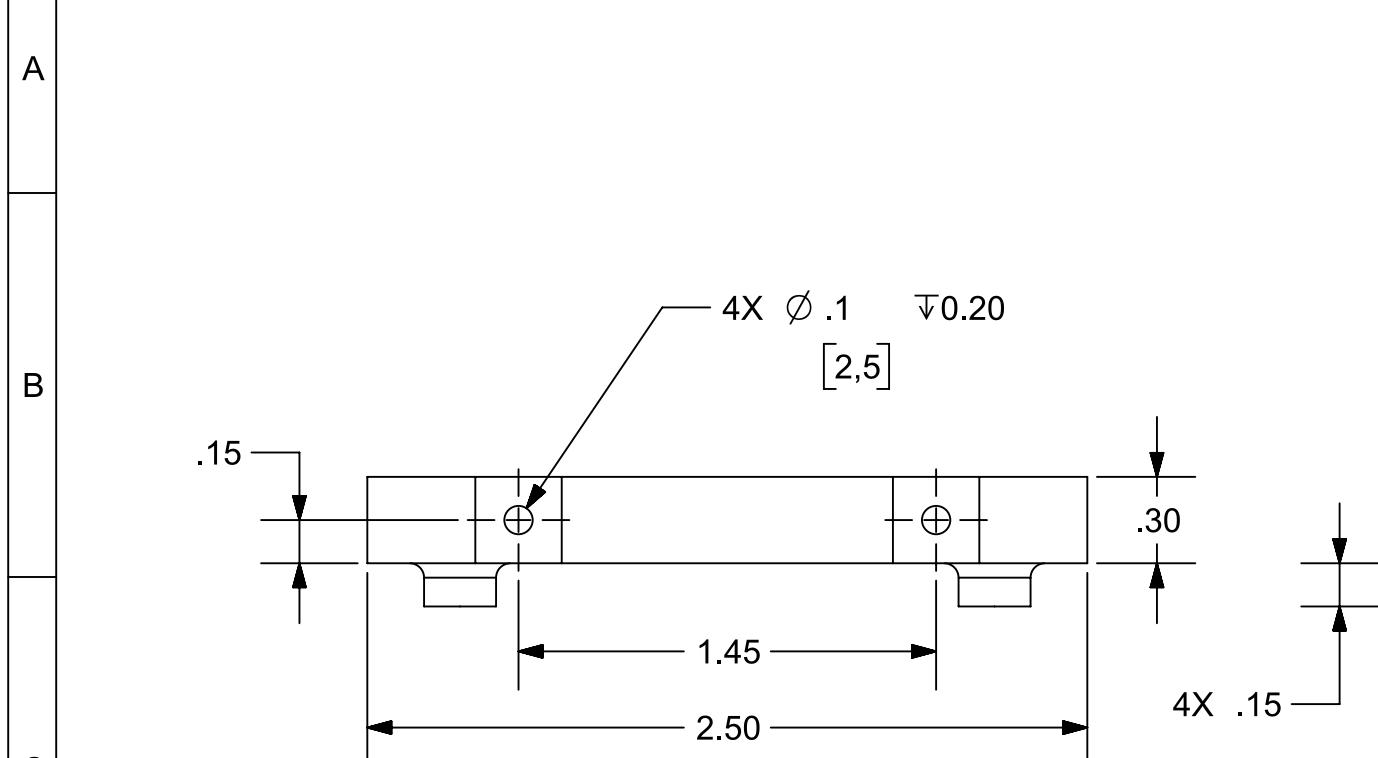
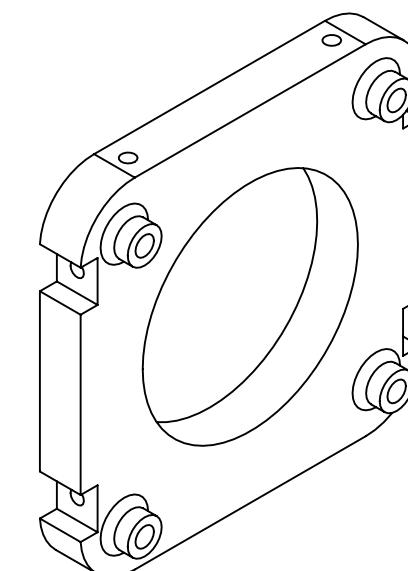
7

B

1 2 3 4 5 6 7 8



1 2 3 4 5 6 7 8

4
Y

NOTE: DUAL DIMENSIONS IN MILLIMETERS



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

 $X.X \pm 0.1$ $X.XX \pm 0.02$ $X.XXX \pm 0.005$ $X.XXXX \pm 0.0005$ GENERAL SURFACE FINISH $125\mu\text{IN}$

PART NUMBER - TITLE

C104-002 STEPPER PLATE

TWO CAN TEAM

ENGINEER T. KOESSLER

DRAWN BY T. KOESSLER

CHECKED BY A. ROBB

APPROVED BY M. LEWTON

SIZE MATERIAL

B OVERTURE PETG FILAMENT

SHEET REV A

SCALE 3:2

SHEET 1 OF 1

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

D

E

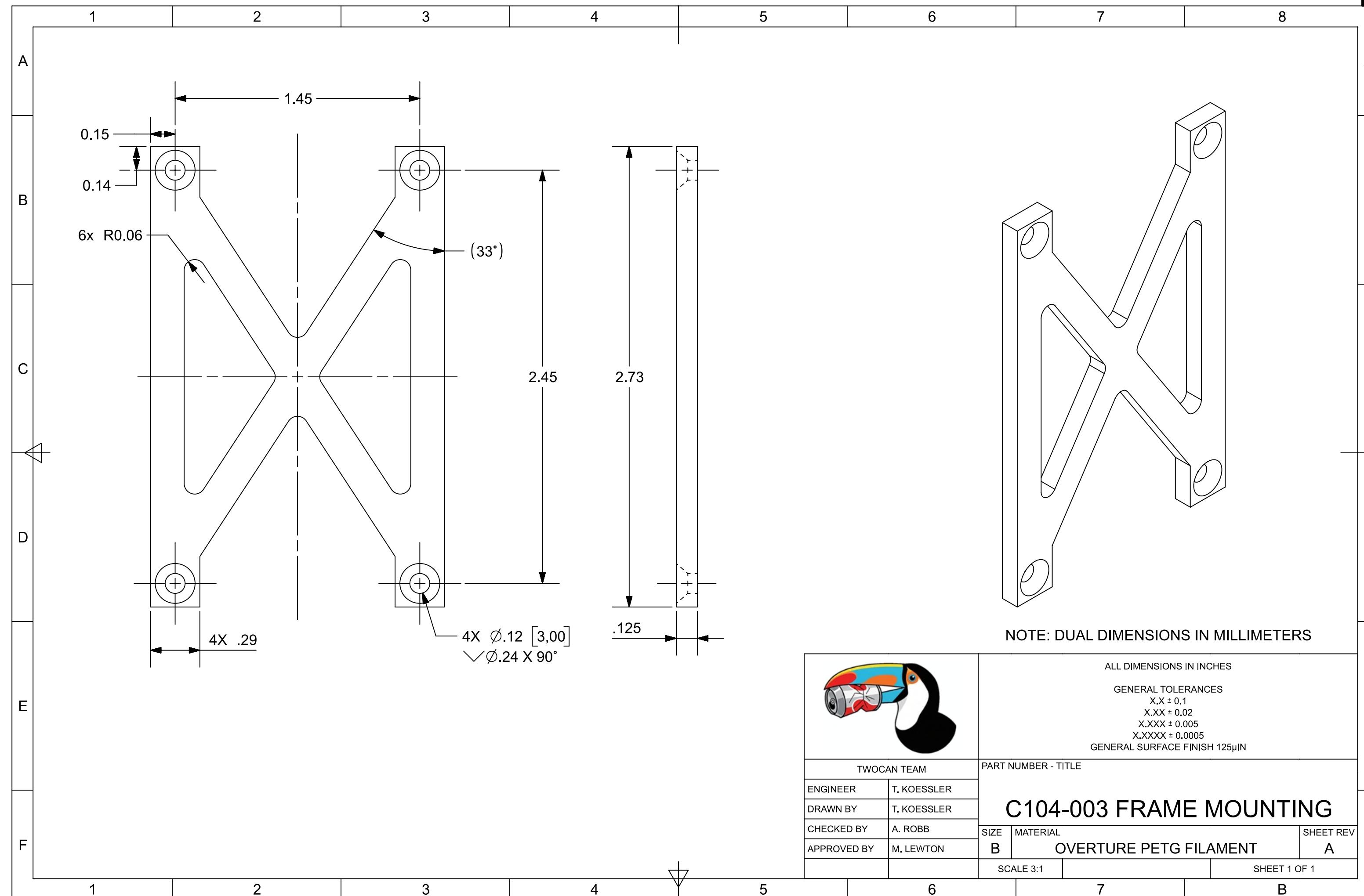
E

E

F

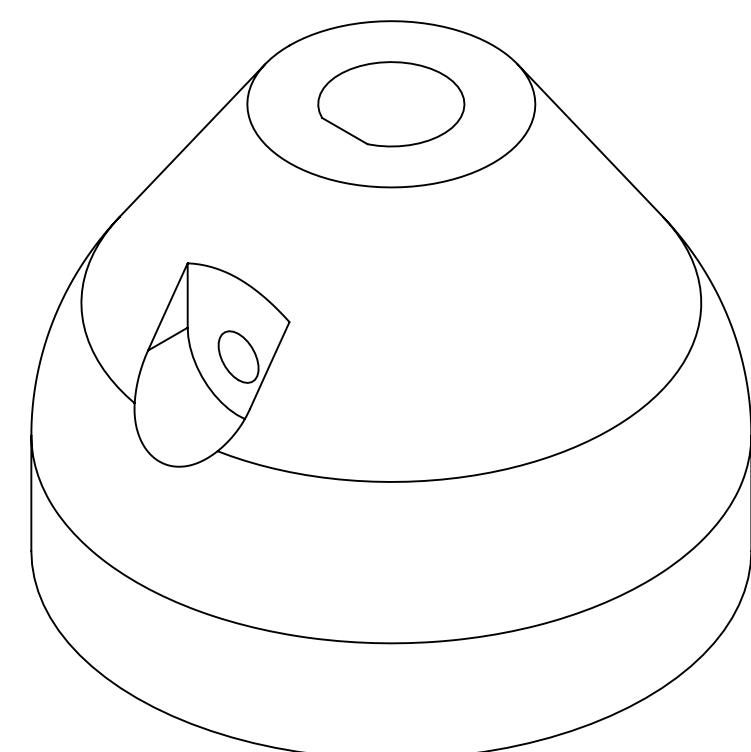
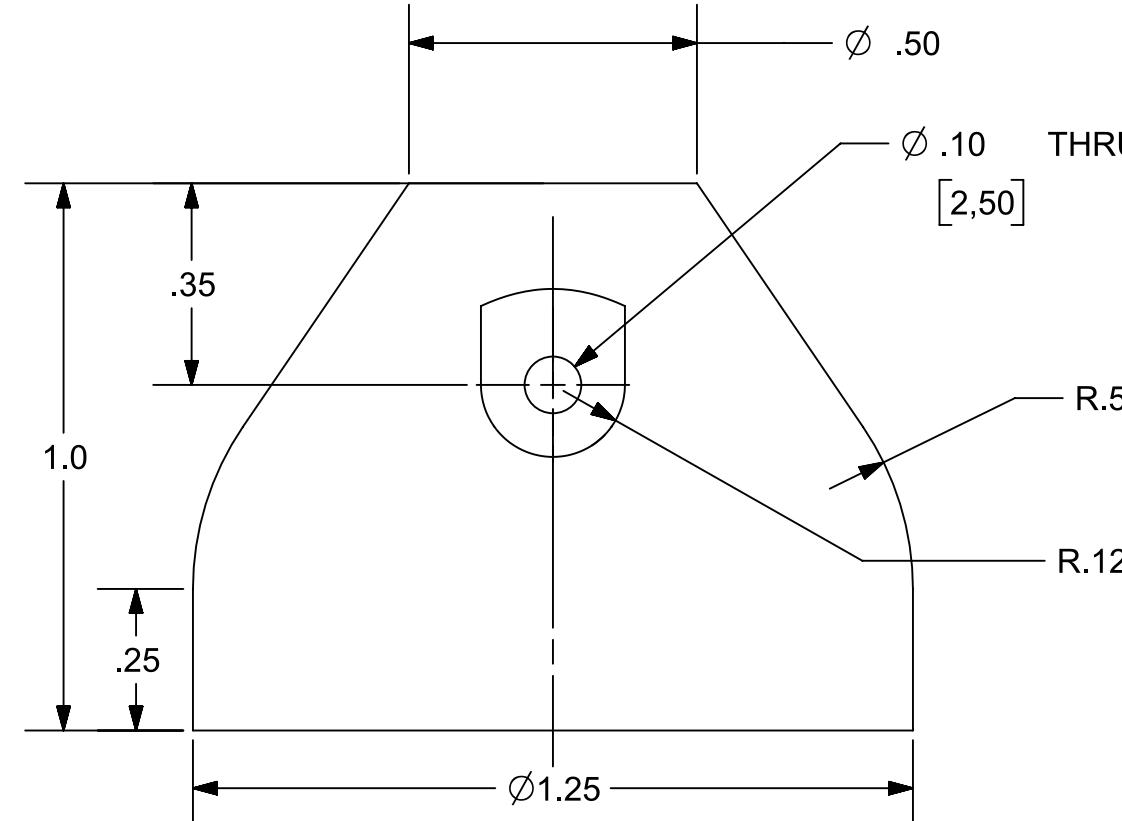
F

B

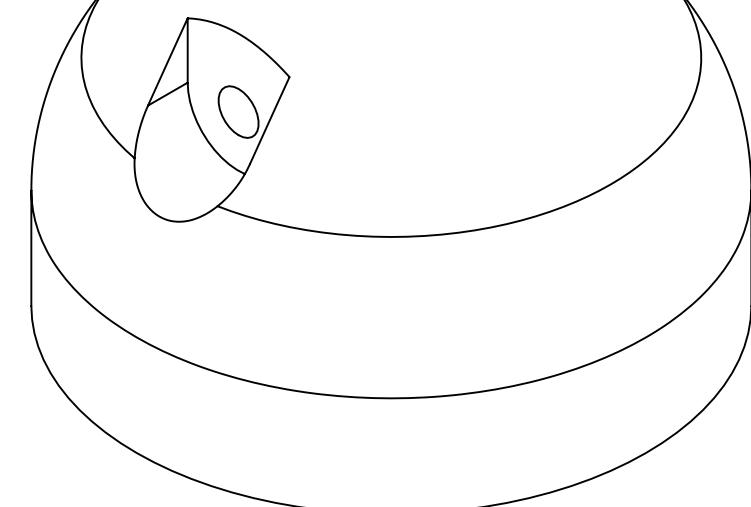


1 2 3 4 5 6 7 8

A



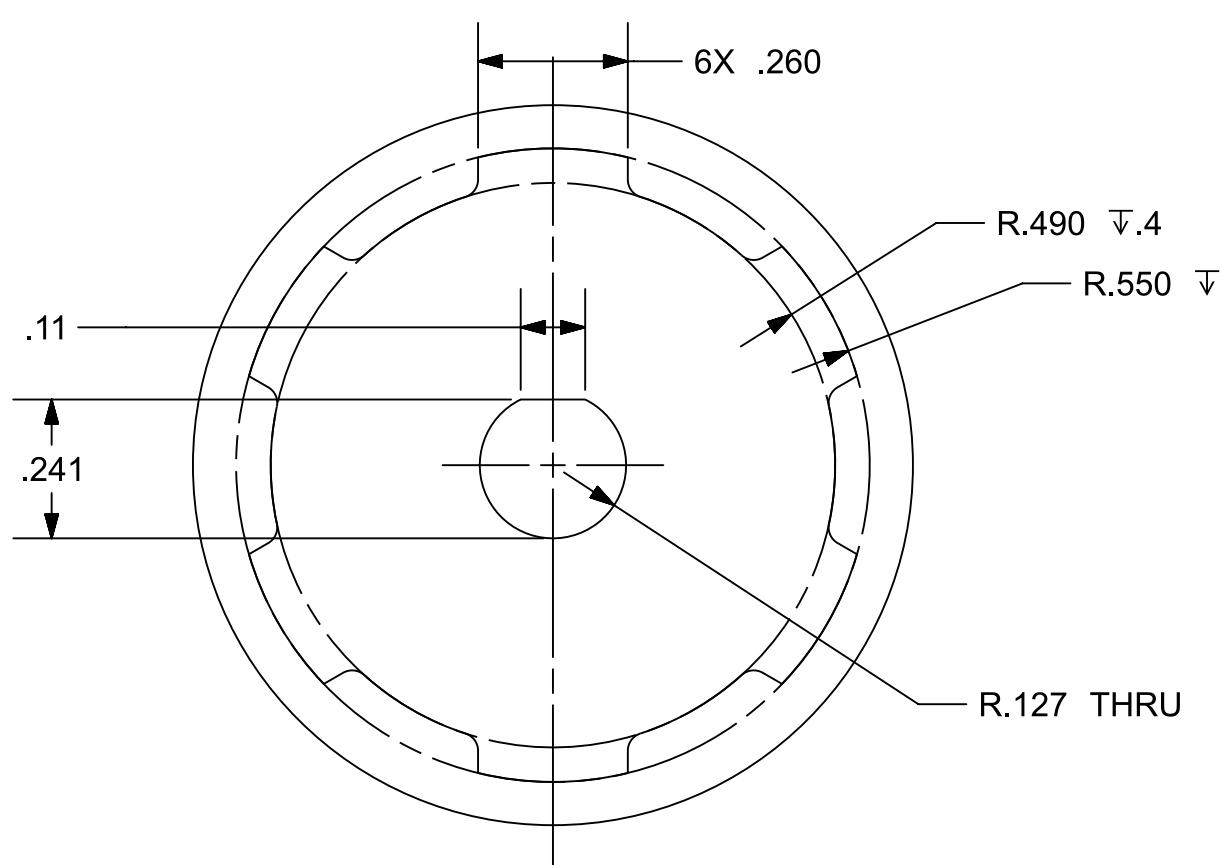
B



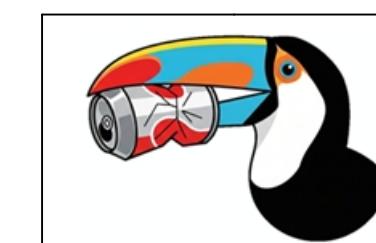
C



D



NOTE: DUAL DIMENSIONS IN MILLIMETERS



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

$X.X \pm 0.1$

$X.XX \pm 0.02$

$X.XXX \pm 0.005$

$X.XXXX \pm 0.0005$

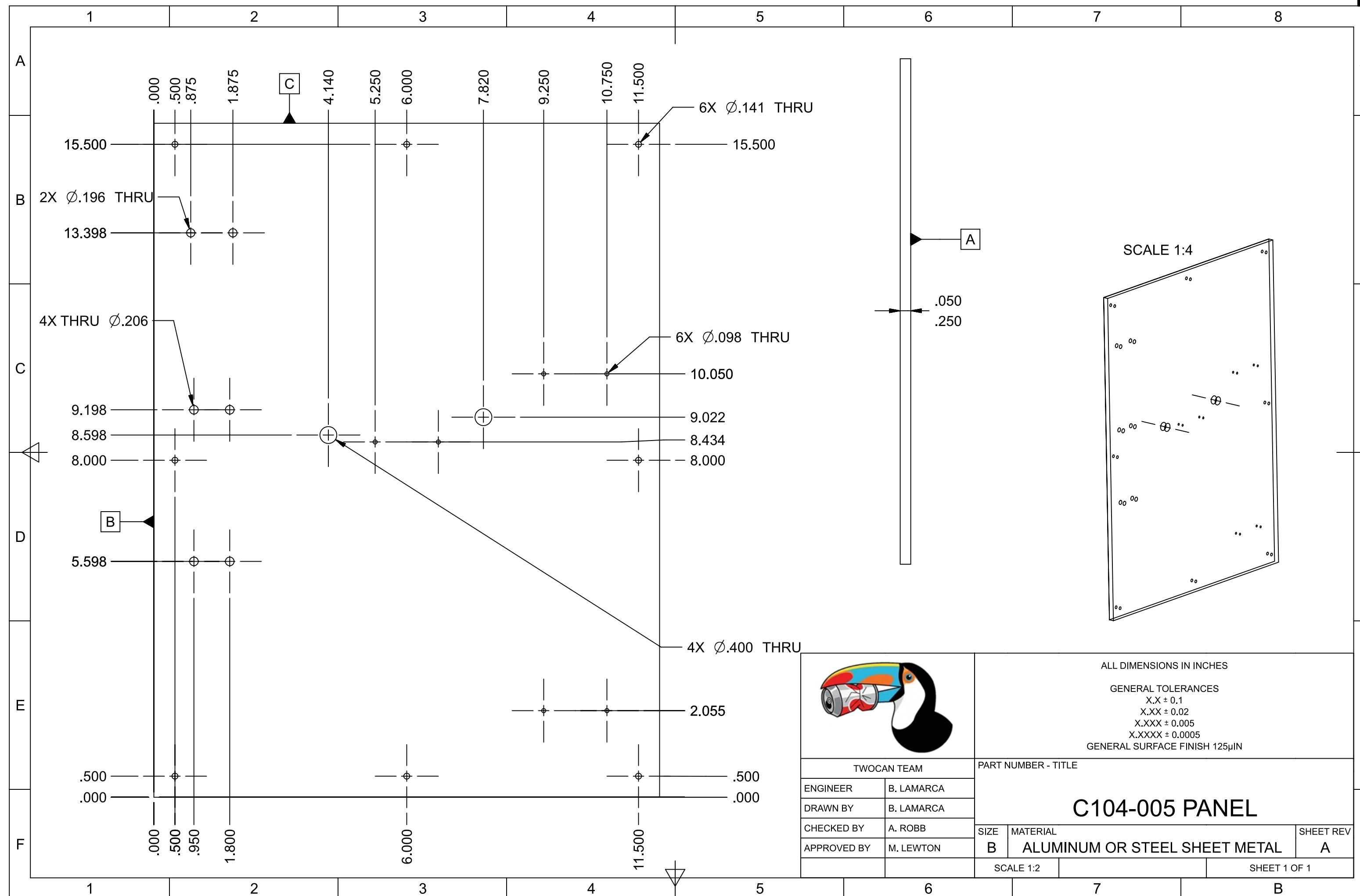
GENERAL SURFACE FINISH $125\mu\text{IN}$

PART NUMBER - TITLE

C104-004 COG

TWO CAN TEAM		SIZE		MATERIAL	SHEET REV
ENGINEER	T. KOESSLER	B		OVERTURE PETG FILAMENT	A
DRAWN BY	T. KOESSLER				
CHECKED BY	A. ROBB				
APPROVED BY	M. LEWTON				
		SCALE 3:1			SHEET 1 OF 1

1 2 3 4 5 6 7 B



1 2 3 4 5 6 7 8

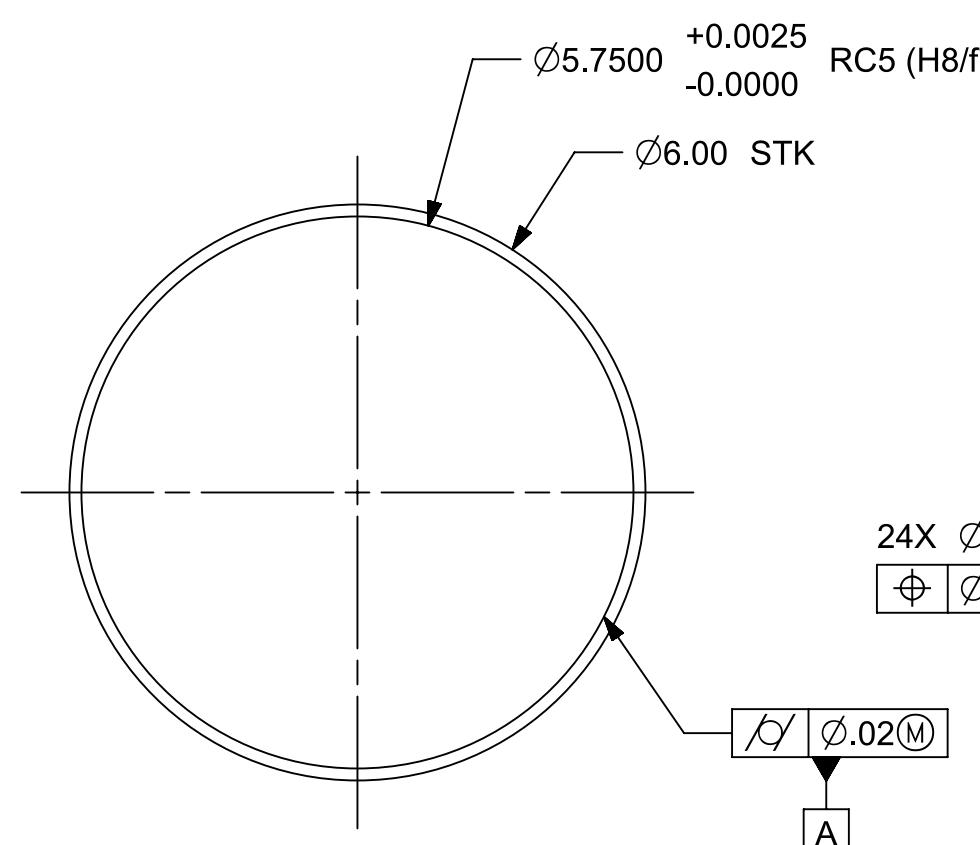
A

A

NOTES:
 1. BREAK ALL EDGES WITH CHAMFER NO LARGER THAN .010
 2. ALL SURFACES  A B C UNLESS OTHERWISE SPECIFIED

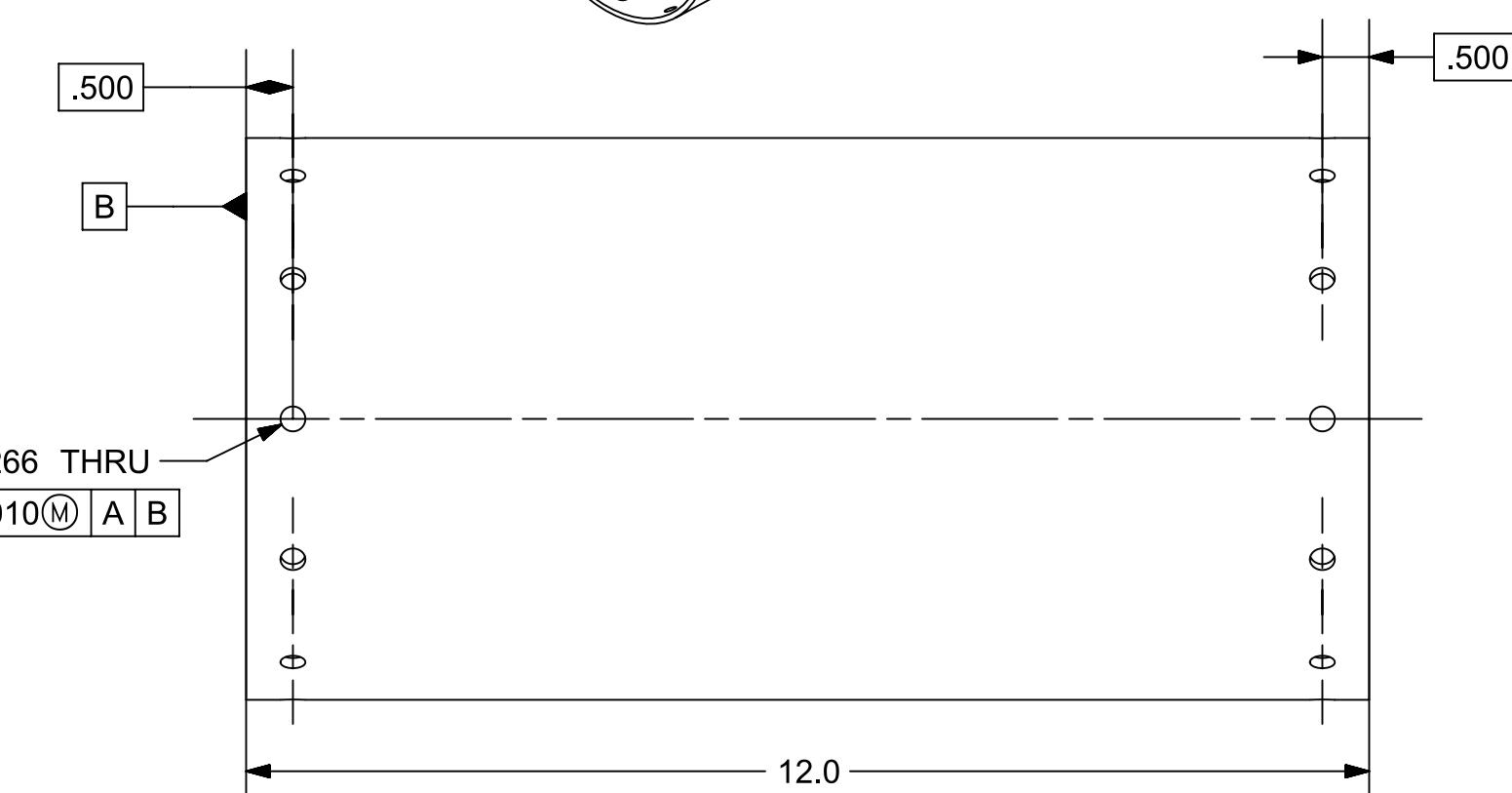
B

B



C

C



D

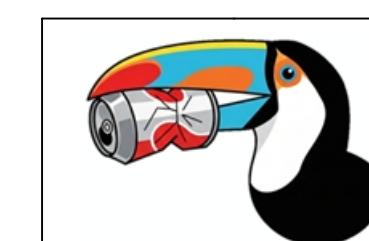
D

E

E

F

F



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

 $X.X \pm 0.1$ $X.XX \pm 0.02$ $X.XXX \pm 0.005$ $X.XXXX \pm 0.0005$ GENERAL SURFACE FINISH $125\mu\text{IN}$

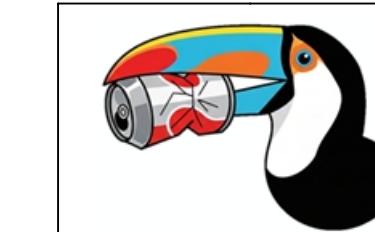
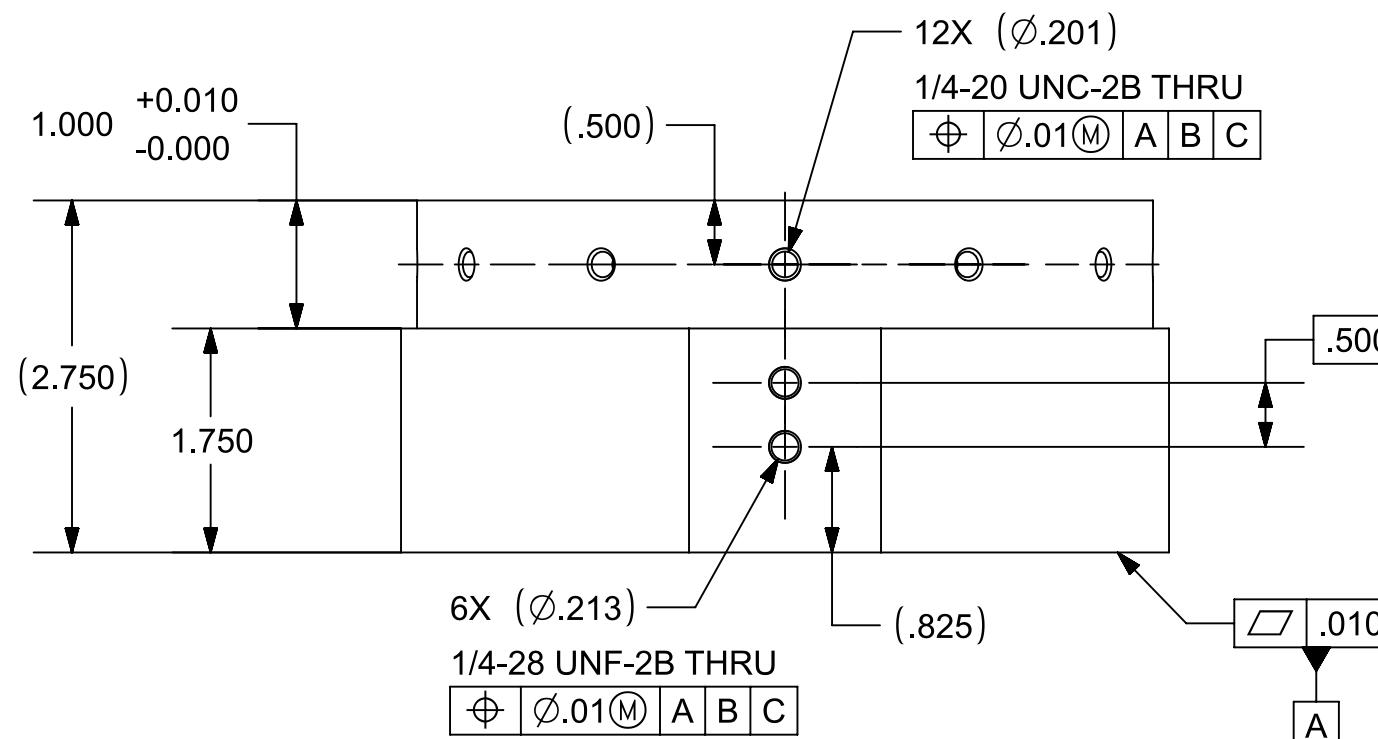
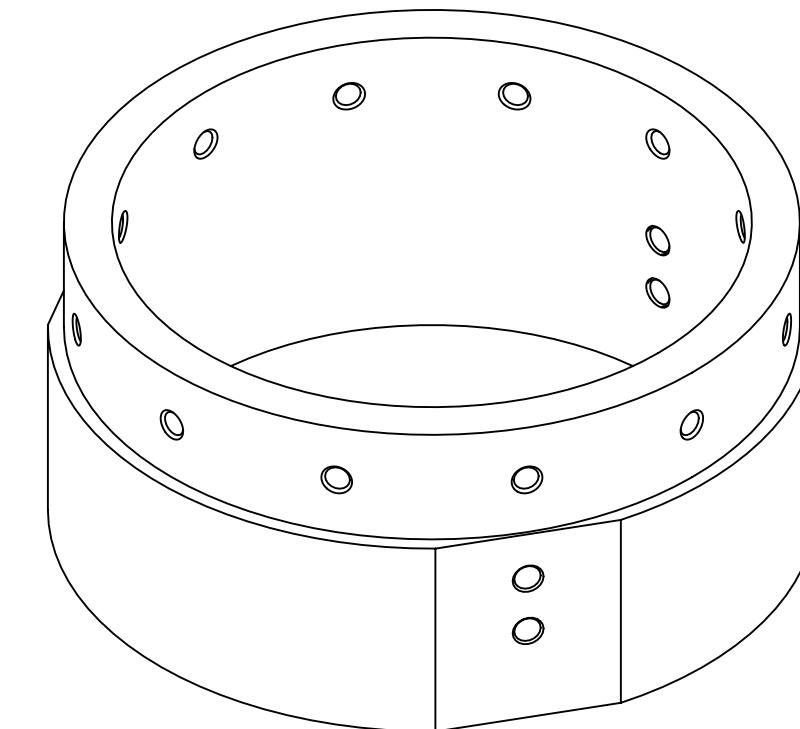
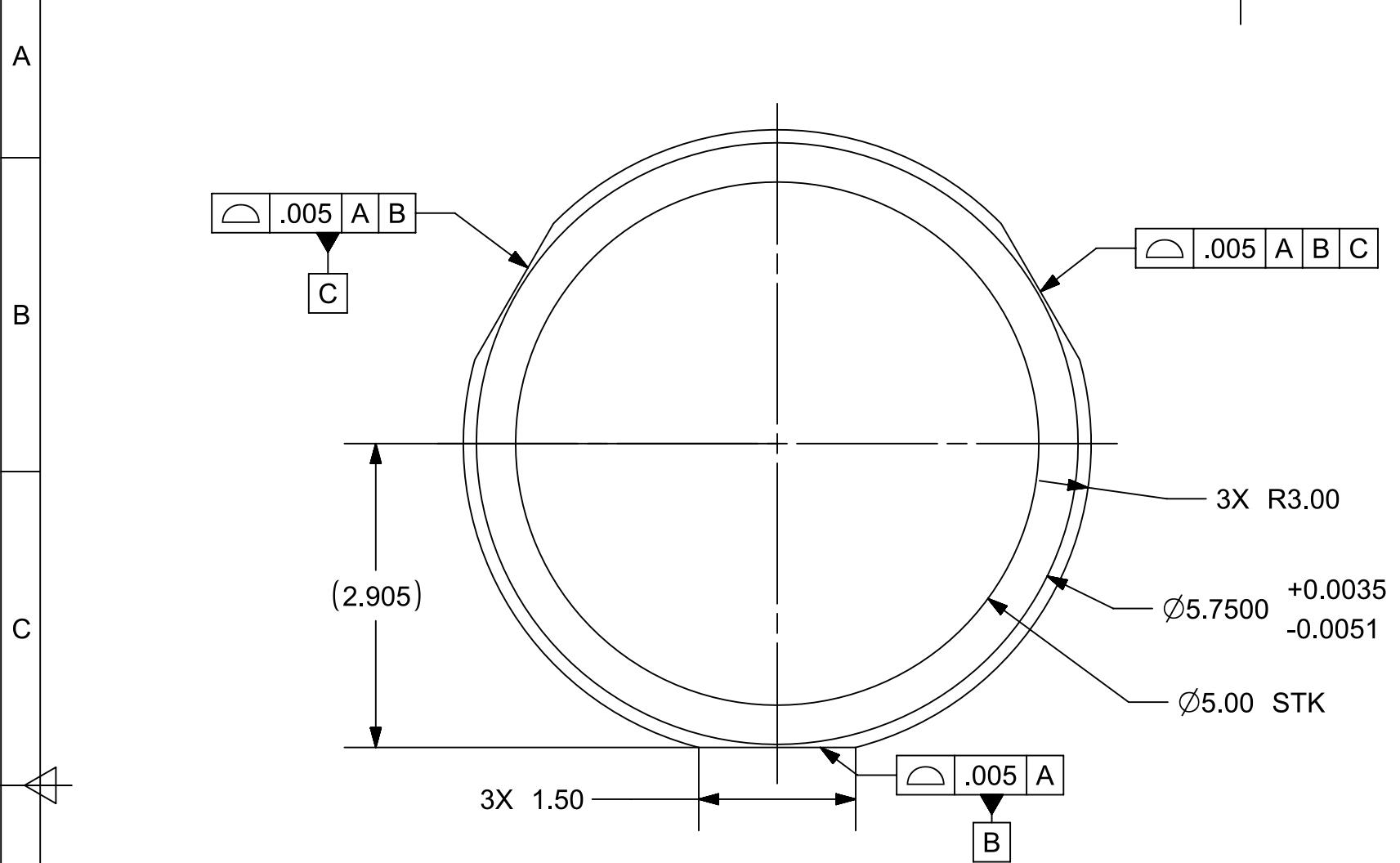
PART NUMBER - TITLE

C105-001 CUSTOMER AIRFRAME

ENGINEER	M. LEWTON	SIZE		MATERIAL	SHEET REV
DRAWN BY	M. LEWTON	B		ALUMINUM 6061-T6511	A
CHECKED BY	A. ROBB				
APPROVED BY	M. LEWTON				
		SCALE 1:2			
		SHEET 1 OF 1			

1 2 3 4 5 6 7 B

1 2 3 4 5 6 7 8



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

 $X.X \pm 0.1$ $X.XX \pm 0.02$ $X.XXX \pm 0.005$ $X.XXXX \pm 0.0005$ GENERAL SURFACE FINISH $125\mu\text{IN}$

PART NUMBER - TITLE

C105-002 CUSTOMER CONNECTOR

TWO CAN TEAM

ENGINEER M. LEWTON

DRAWN BY M. LEWTON

CHECKED BY A. ROBB

APPROVED BY M. LEWTON

SIZE

B

MATERIAL ALUMINUM 6061-T6511

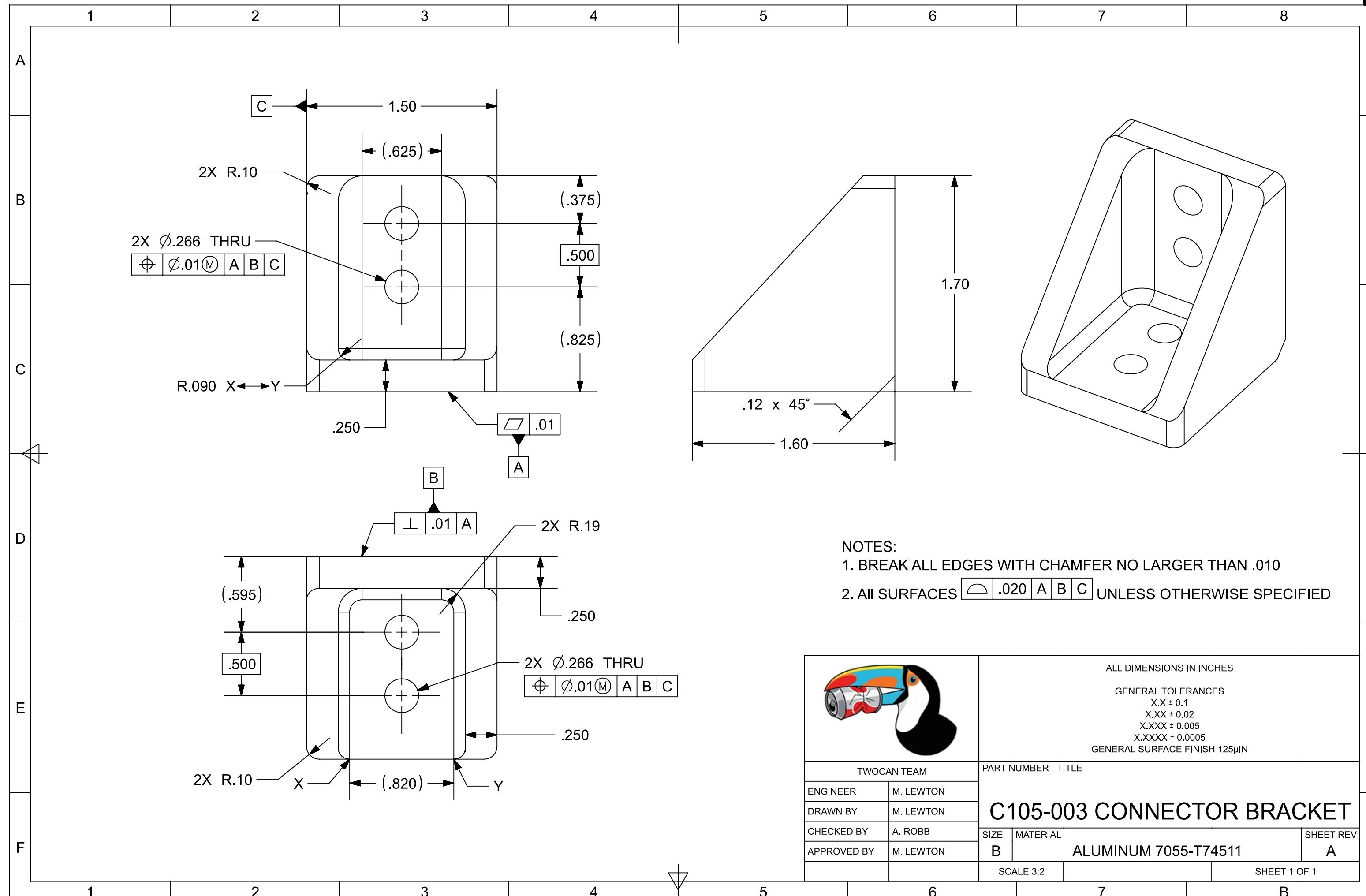
SHEET REV

A

SCALE 2:3

SHEET 1 OF 1

1 2 3 4 5 6 7 B



1 2 3 4 5 6 7 8

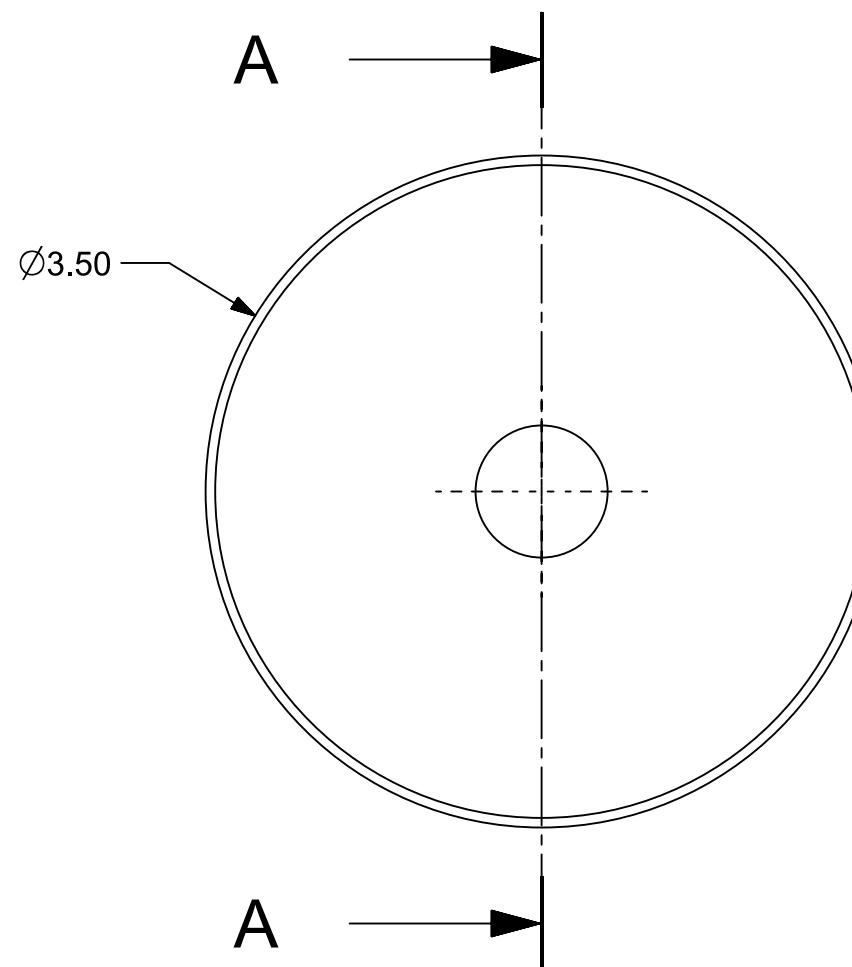
A

A

NOTES:
 1. BREAK ALL EDGES WITH CHAMFER NO LARGER THAN .010
 2. ALL SURFACES  A B UNLESS OTHERWISE SPECIFIED

B

B



C

C

D

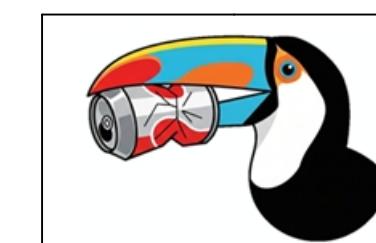
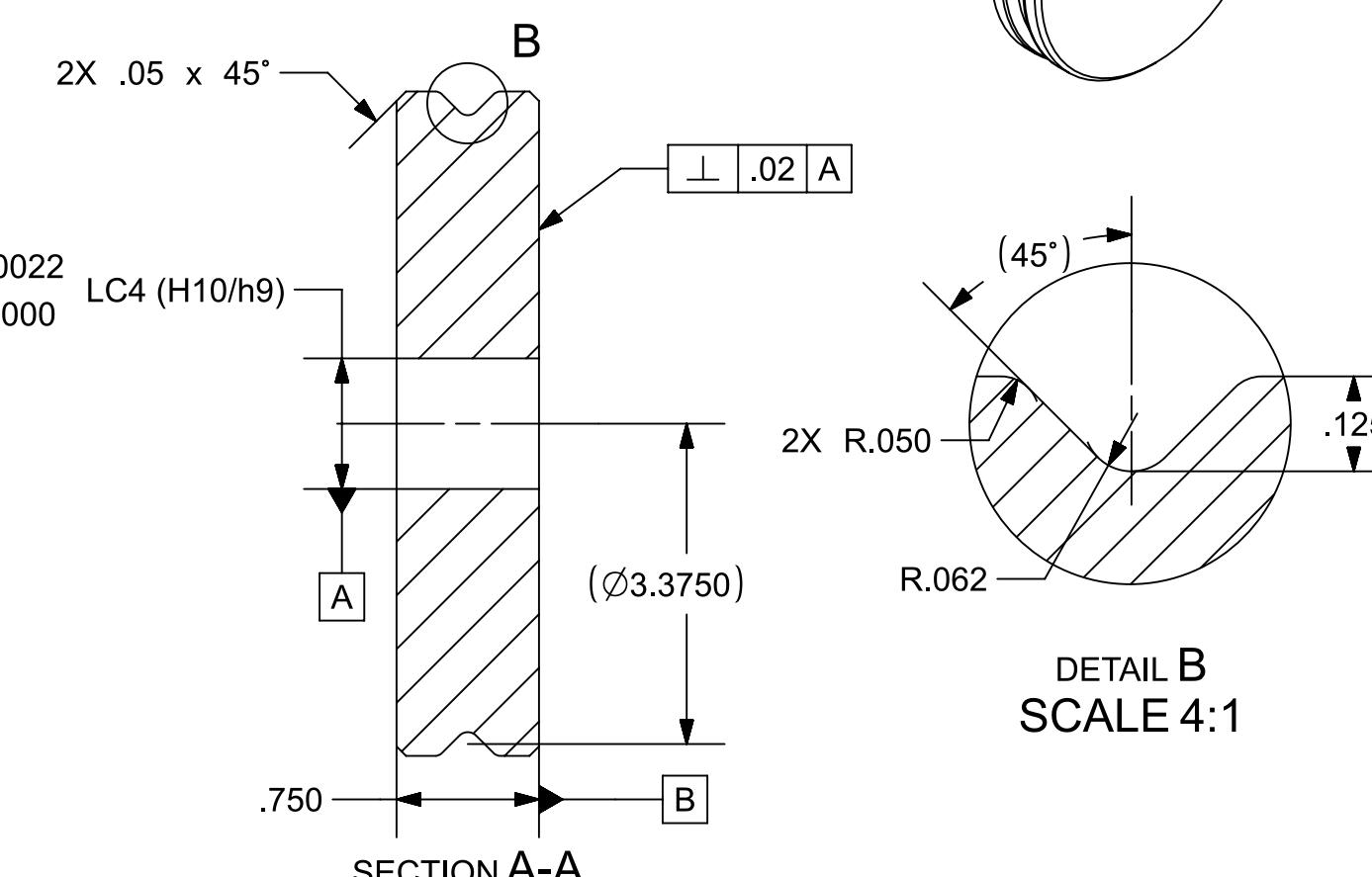
D

E

E

F

F



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

 $X.X \pm 0.1$ $X.XX \pm 0.02$ $X.XXX \pm 0.005$ $X.XXXX \pm 0.0005$ GENERAL SURFACE FINISH $125\mu\text{IN}$

PART NUMBER - TITLE

C106-001 PULLEY

TWO CAN TEAM

ENGINEER M. LEWTON

DRAWN BY M. LEWTON

CHECKED BY A. ROBB

APPROVED BY M. LEWTON

SIZE

B

MATERIAL STEEL 1018

SHEET REV A

SCALE 1:1

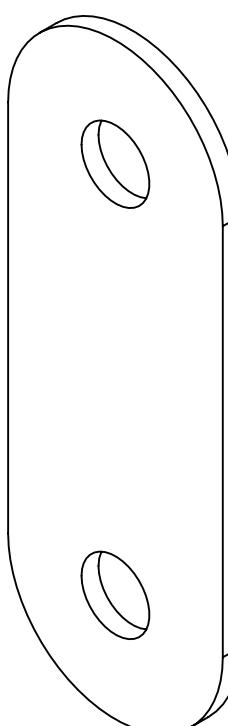
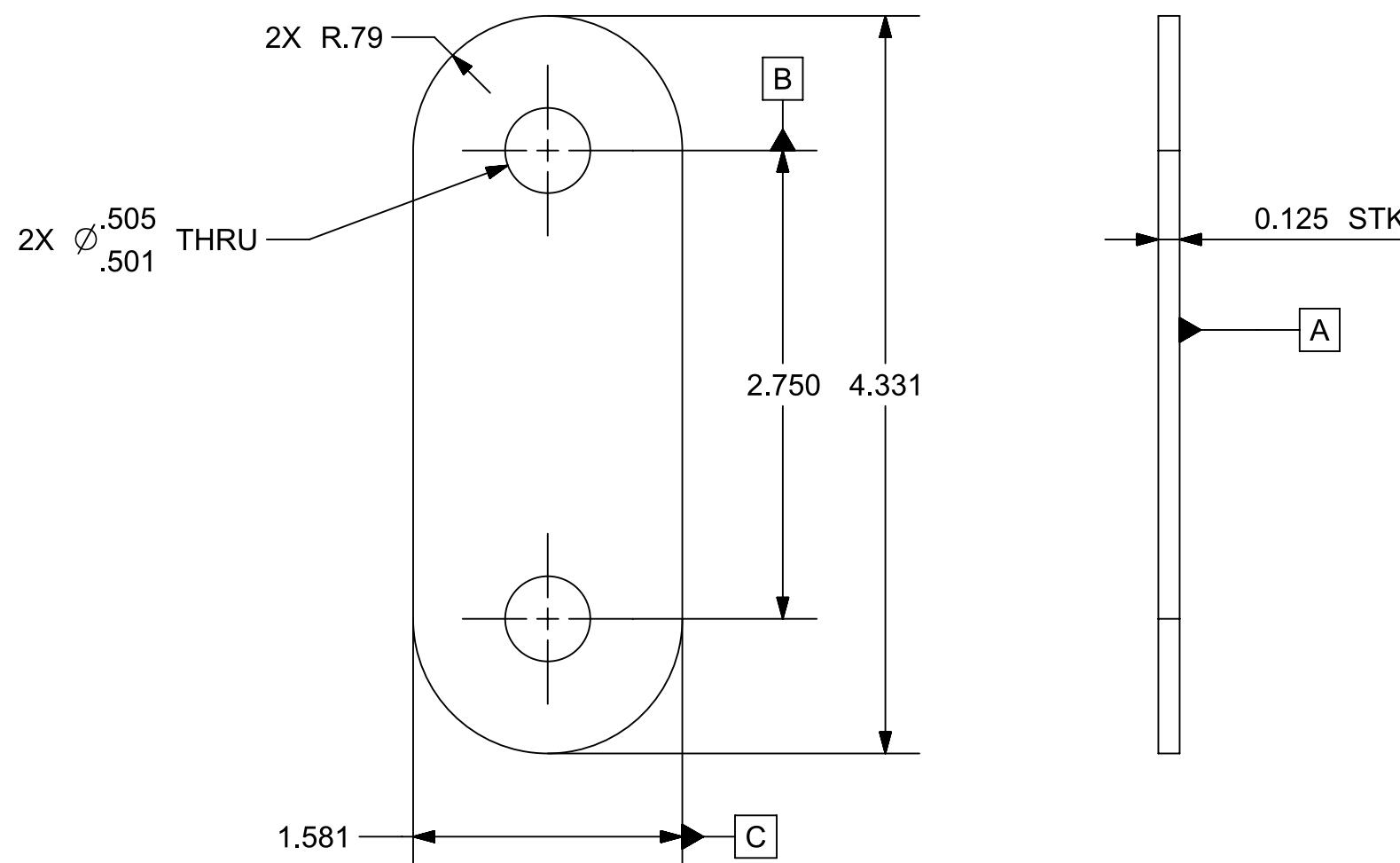
SHEET 1 OF 1

1 2 3 4 5 6 7 B

1 2 3 4 5 6 7 8

A A
B B
C C
D D
E E
F F

NOTES:
1. BREAK ALL EDGES WITH CHAMFER NO LARGER THAN .010
2. All SURFACES .020 A B C UNLESS OTHERWISE SPECIFIED



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1

X.XX ± 0.02

X.XXX ± 0.005

X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125 μ IN

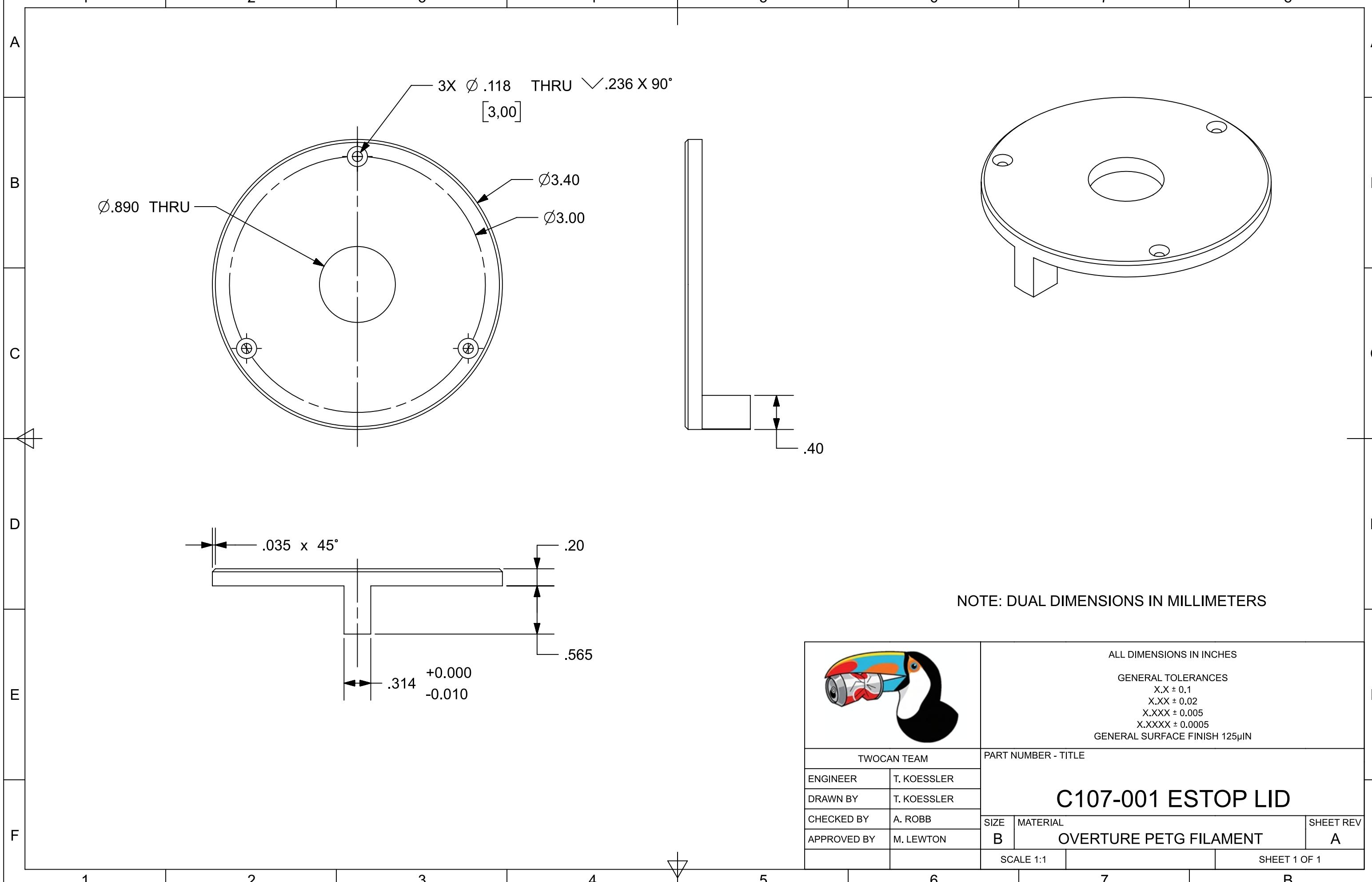
PART NUMBER - TITLE

C106-002 PULLEY PLATE

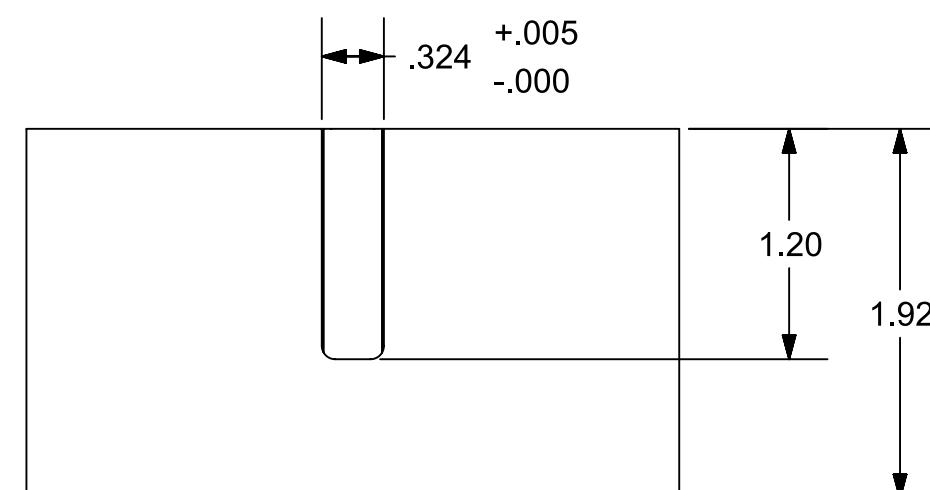
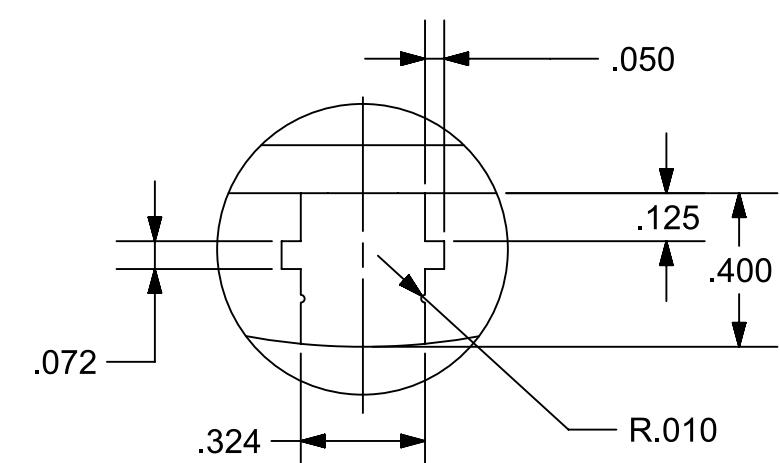
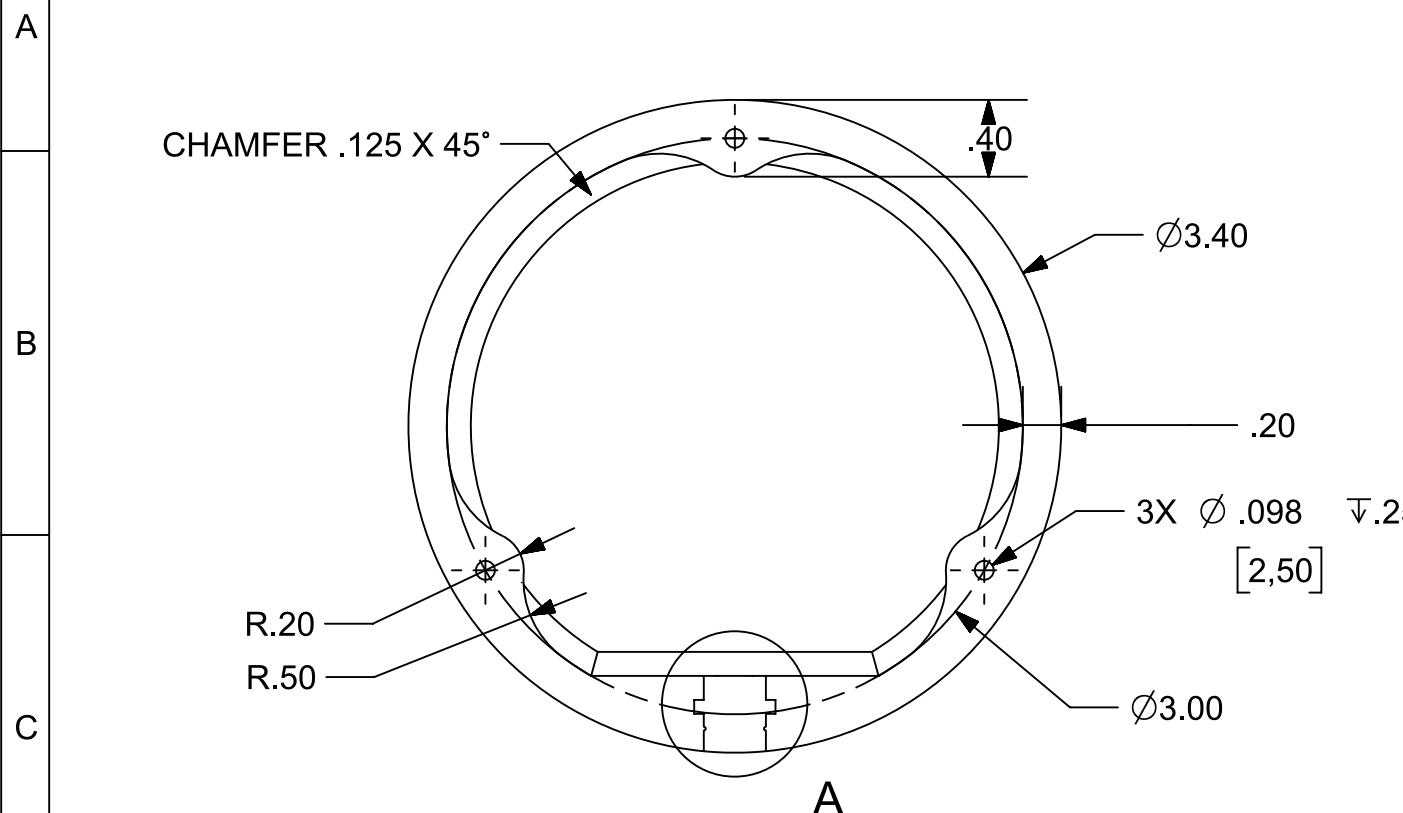
ENGINEER	M. LEWTON	SIZE	MATERIAL	SHEET REV
DRAWN BY	M. LEWTON			
CHECKED BY	A. ROBB			
APPROVED BY	M. LEWTON			
		SCALE 1:1		SHEET 1 OF 1

1 2 3 4 5 6 7 8 B

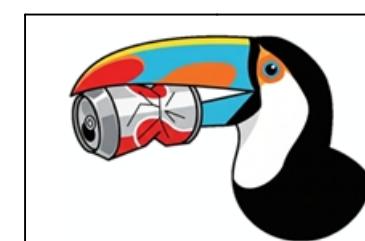
1 2 3 4 5 6 7 8



1 2 3 4 5 6 7 8



NOTE: DUAL DIMENSIONS IN MILLIMETERS



ALL DIMENSIONS IN INCHES

GENERAL TOLERANCES

X.X ± 0.1
X.XX ± 0.02
X.XXX ± 0.005
X.XXXX ± 0.0005

GENERAL SURFACE FINISH 125µIN

TWOCAN TEAM

ENGINEER T. KOESSLER

DRAWN BY T. KOESSLER

CHECKED BY A. ROBB

APPROVED BY M. LEWTON

PART NUMBER - TITLE

C107-002 ESTOP BOX

SIZE	MATERIAL	SHEET REV
B	OVERTURE PETG FILAMENT	A
SCALE 1:1		SHEET 1 OF 1

1 2 3 4 5 6 7 8



1 2 3 4 5 6 7 8

B

