

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:

ANGULAR: MACH ± 30'
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL

Aluminum

FINISH

As Machined

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DRAWN	MTK	5/9/19
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

-Middle Shelf of Drive System
Upper Gearbox

TITLE: Drive Upper Gearbox Middle



THAYER SCHOOL OF
ENGINEERING
AT DARTMOUTH

SIZE DWG. NO.

A

REV

1

SCALE: 1:2 WEIGHT:

SHEET 4 OF 8

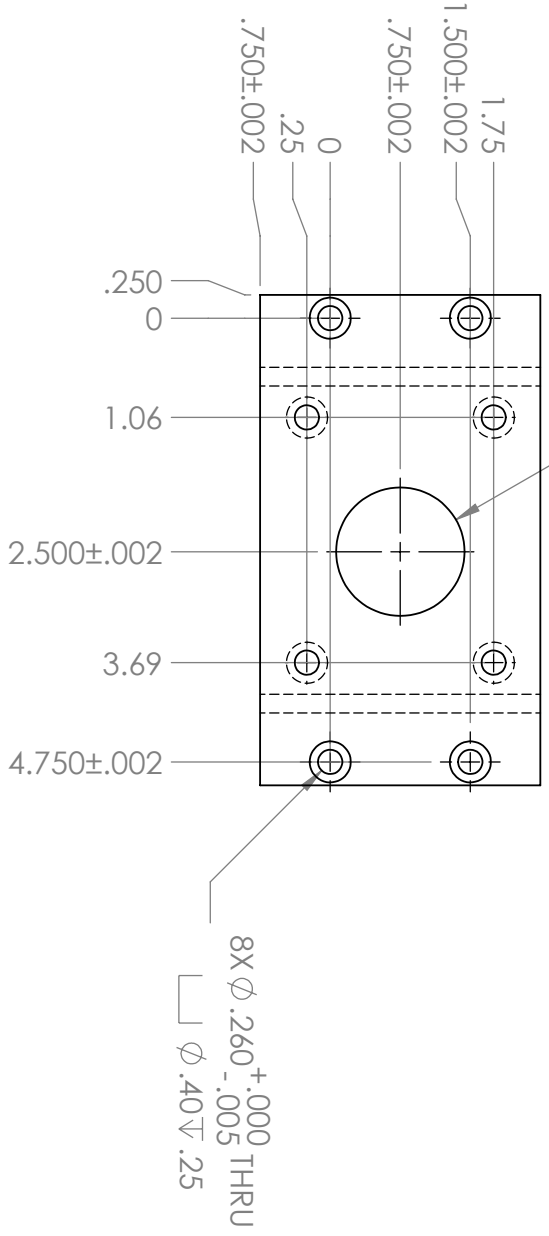
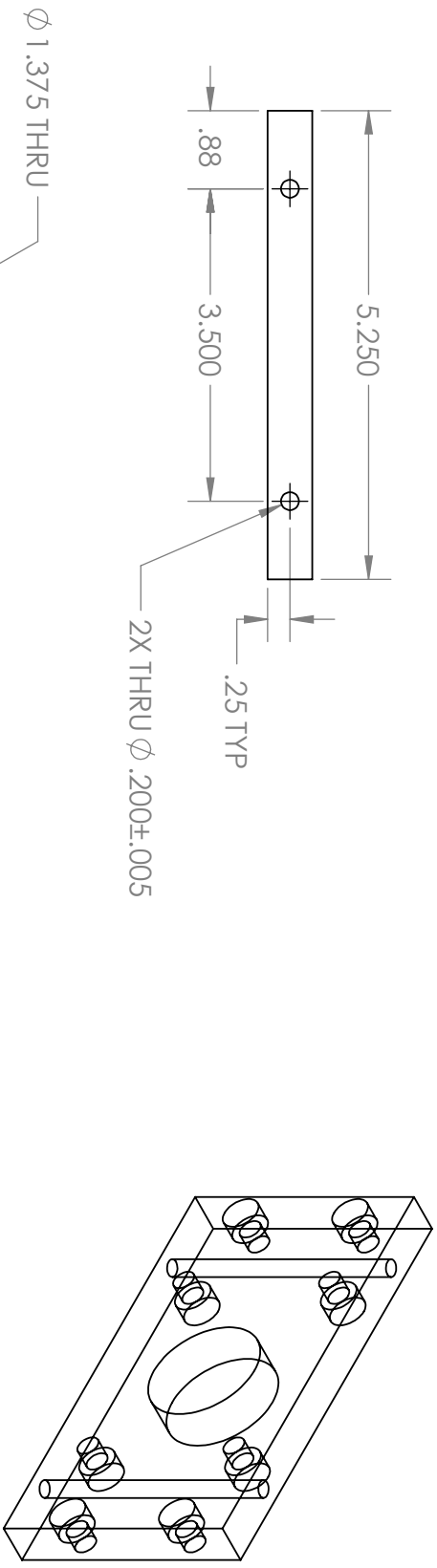
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4

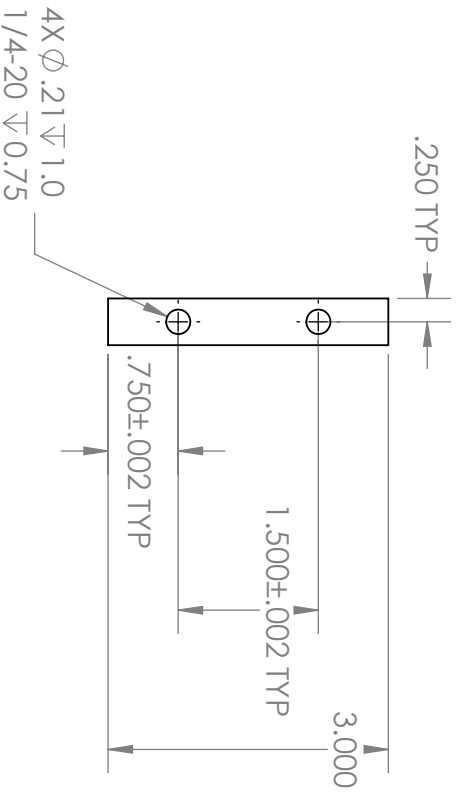
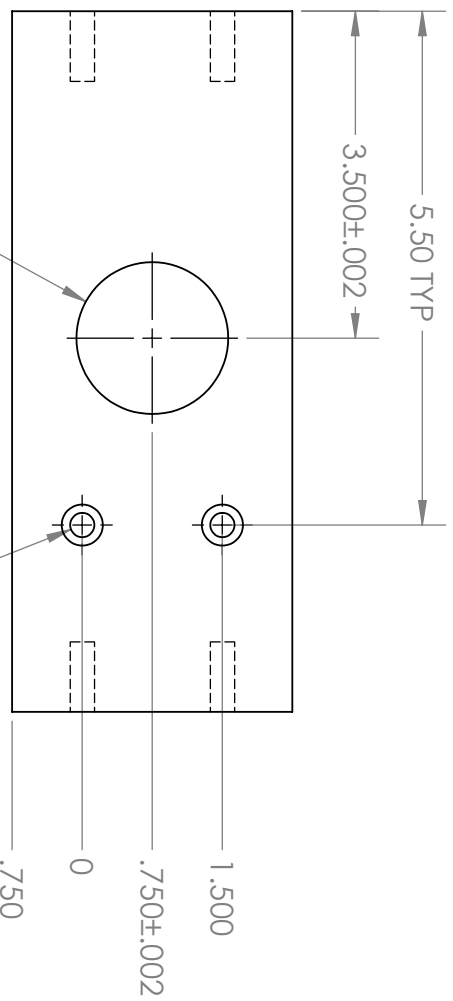
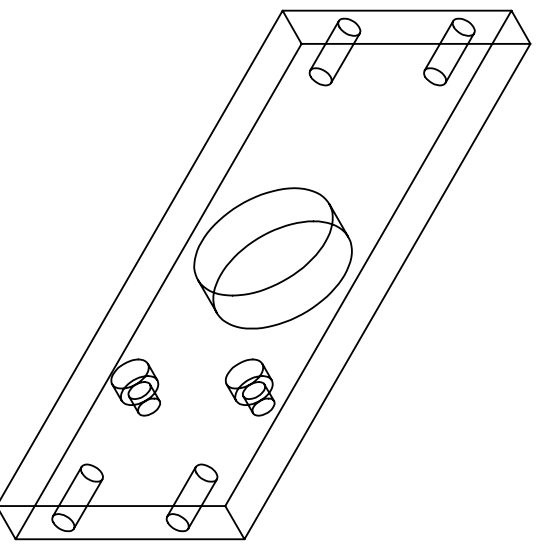
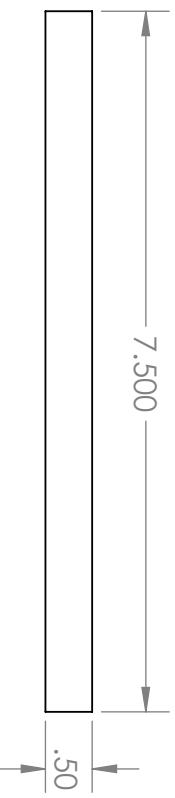
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2

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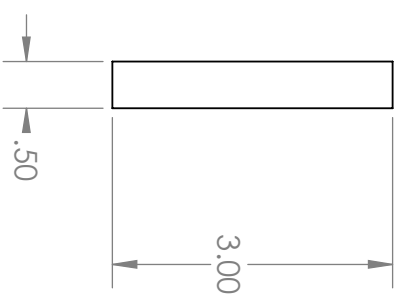
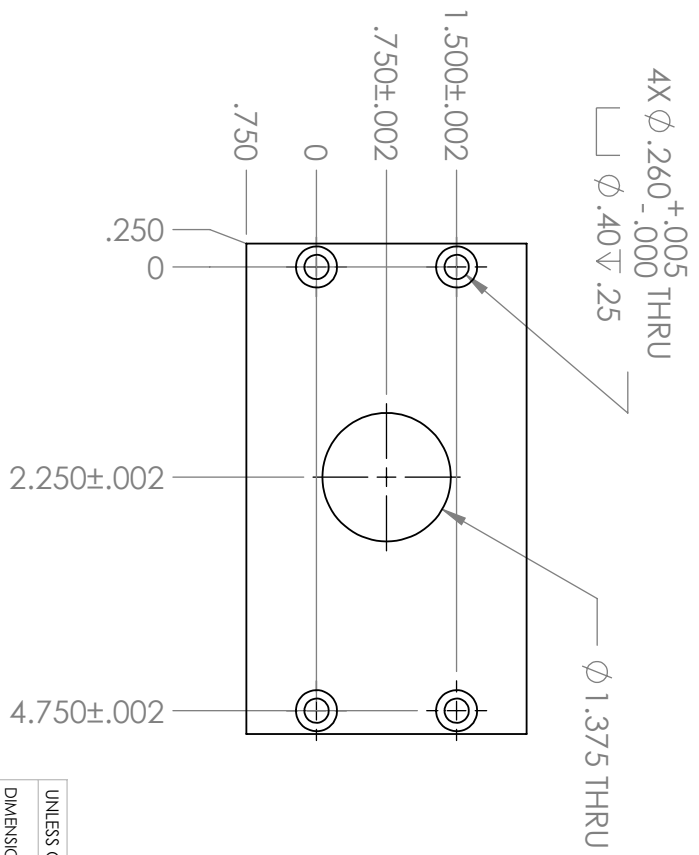
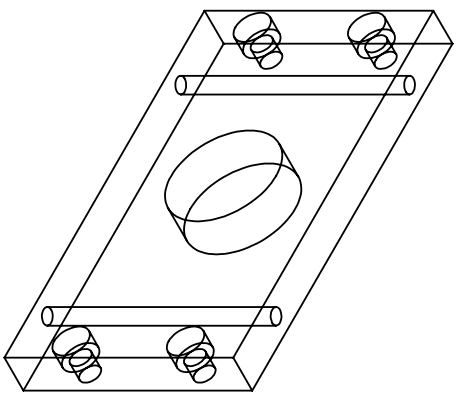
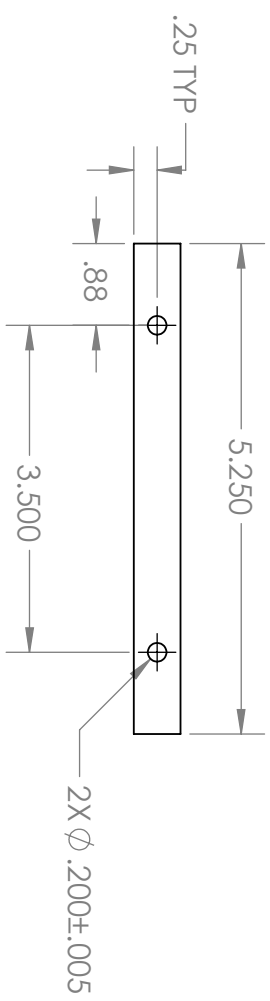
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± .30' TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .003		DRAWN	NAME	DATE	TITLE: Drive Upper Gearbox Top  TAYLOR SCHOOL OF ENGINEERING AT DARTMOUTH
INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED	MTK	5/9/19	
MATERIAL Aluminum		ENG APPR.			
FINISH As Machined		MFG APPR.			
DO NOT SCALE DRAWING		COMMENTS: -Top of Drive System Upper Gearbox		SIZE A	DWG. NO.
				SCALE: 1:2	WEIGHT:
				SHEET 1 OF 8	REV 1




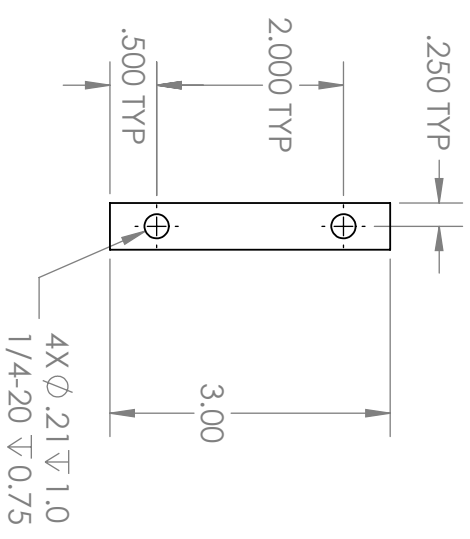
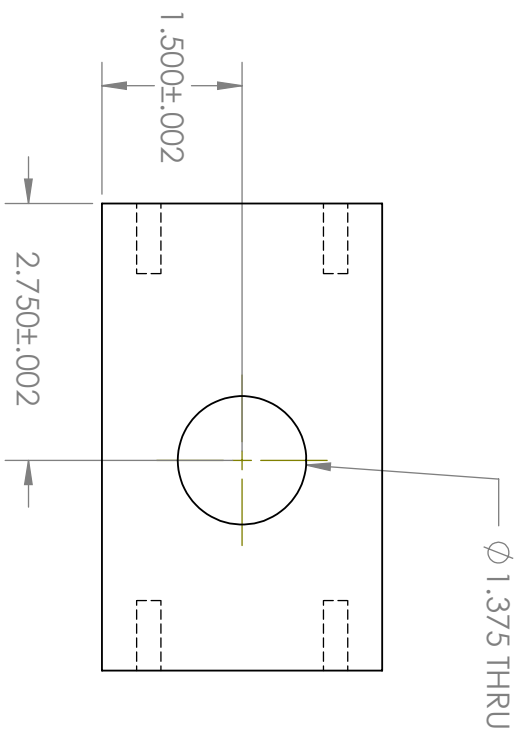
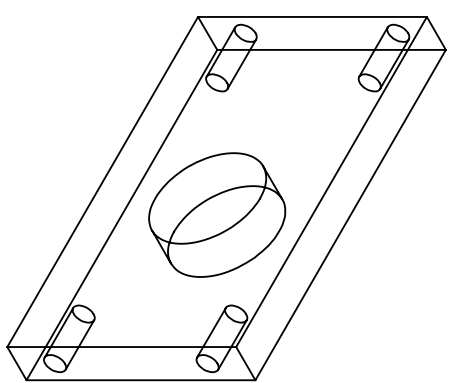
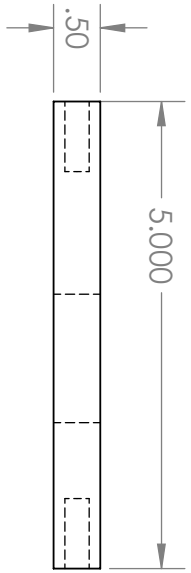
2X

5 4 3 2 1

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± 30' TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .003 INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL Aluminum FINISH As Machined DO NOT SCALE DRAWING		DRAWN	NAME	DATE	TITLE: Drive Upper Gearbox Side  THAYER SCHOOL OF ENGINEERING AT DARTMOUTH
		CHECKED	MTK	5/9/19	
		ENG APPR.			
		MFG APPR.			
COMMENTS: -Side of Drive System Upper Gearbox -Need 2X		Q.A.			SIZE DWG. NO. REV A 1
		SCALE: 1:2	WEIGHT:	SHEET 2 OF 8	



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± 30' TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .003 INTERPRET GEOMETRIC TOLERANCING PER:			DRAWN	NAME	DATE	TITLE: Drive Upper Gearbox Bottom 
MATERIAL Aluminum			CHECKED	MTK	5/9/19	
FINISH As Machined			ENG APPR.			
DO NOT SCALE DRAWING			MFG APPR.			
COMMENTS: -Bottom of Drive system Upper Gearbox			Q.A.			SIZE DWG. NO. A
						SCALE: 1:2 WEIGHT: SHEET 3 OF 8
						REV 1



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:

ANGULAR: MACH ± 30'
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL
Aluminum

FINISH
As Machined

DO NOT SCALE DRAWING

DRAWN	NAME	DATE
MTK	MTK	5/10/19

CHECKED	ENG APPR.	MFG APPR.	Q.A.

COMMENTS:
-Middle of Drive System
Lower Gearbox

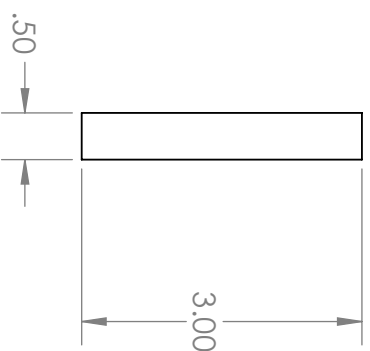
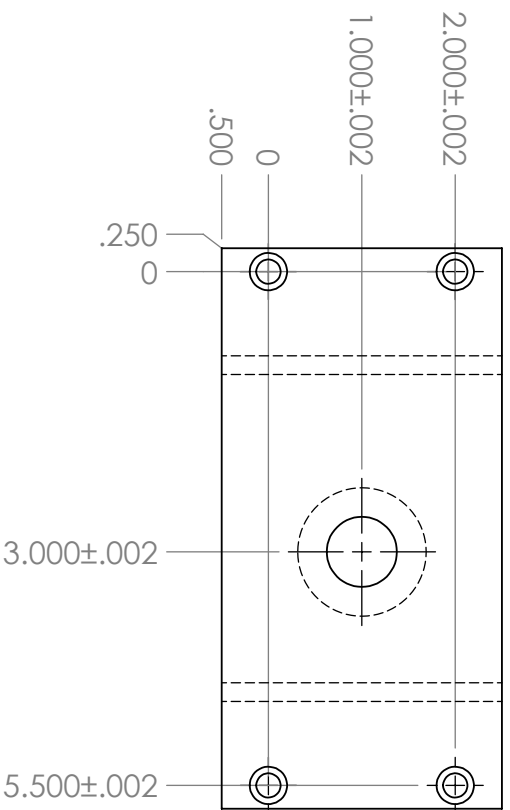
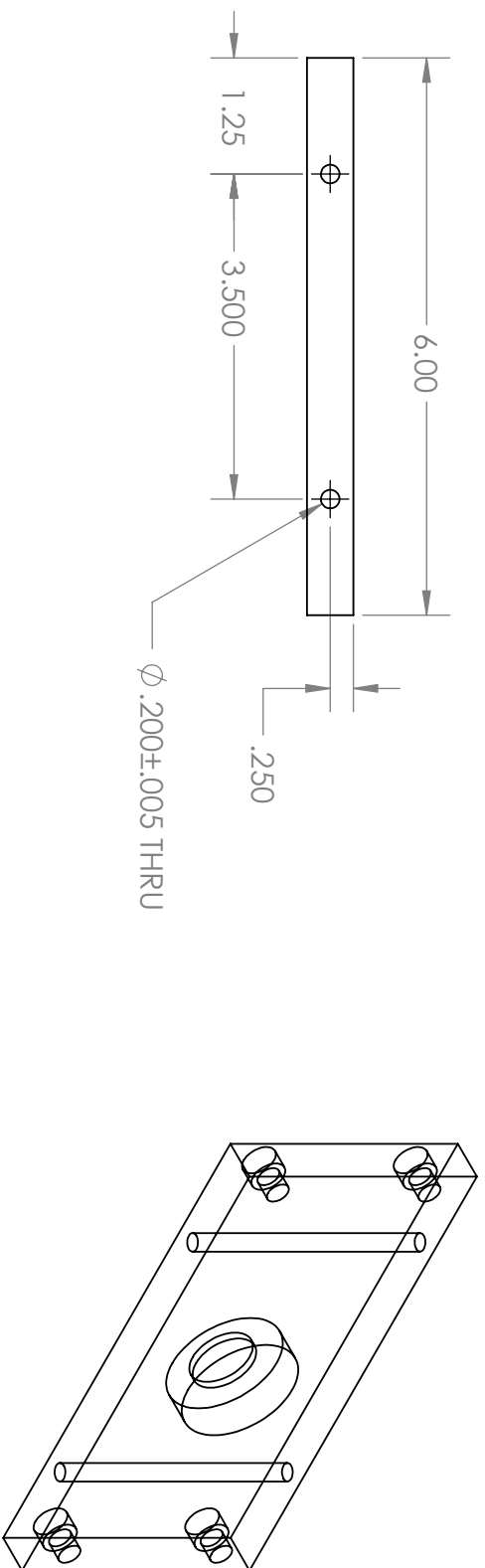
TITLE: Drive Lower Gearbox Middle



SIZE DWG. NO. REV

A 1

SCALE: 1:2 WEIGHT: SHEET 8 OF 8



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:

ANGULAR: MACH ± 30'
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL

Aluminum

FINISH

As Machined

DO NOT SCALE DRAWING

DRAWN	NAME	DATE
CHECKED	MTK	5/10/19
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

-Bottom of Drive System
Lower Gearbox

TITLE: Drive Lower Gearbox Top



SIZE DWG. NO.

A

REV

1

SCALE: 1:2 WEIGHT:

SHEET 5 OF 8

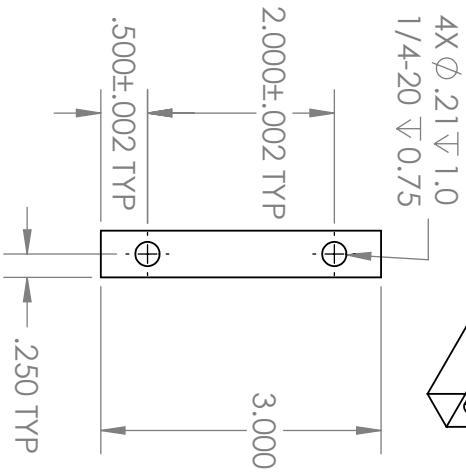
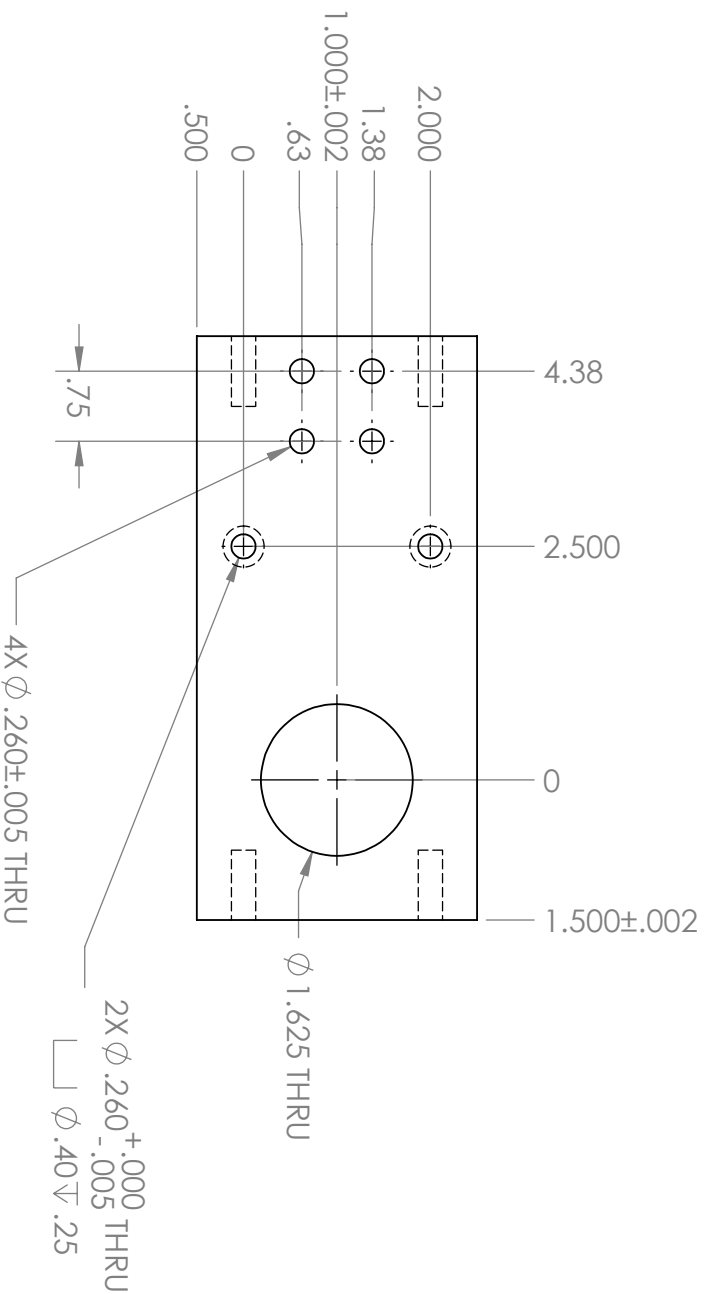
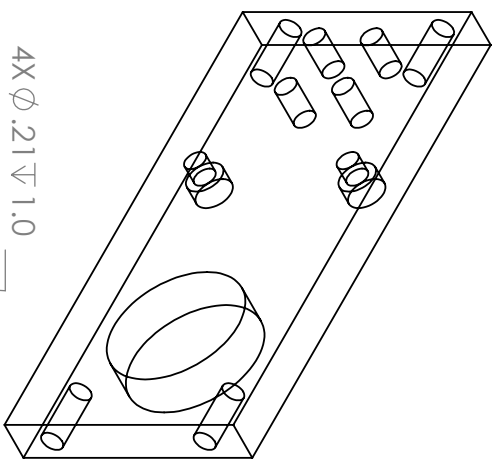
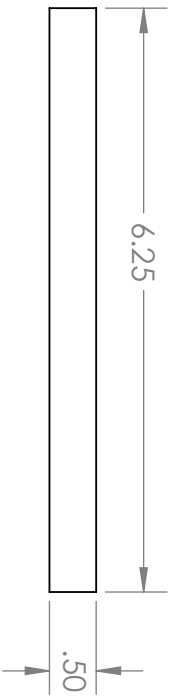
5

4

3

2

1



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:

ANGULAR: MACH ± 30'
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL
Aluminum

FINISH
As Machined

DO NOT SCALE DRAWING

DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.

NAME
MTK

DATE
5/9/19

COMMENTS:
-Side of Drive System
-Lower Gearbox
-Need 2x

TITLE:
Drive Lower Gearbox Side



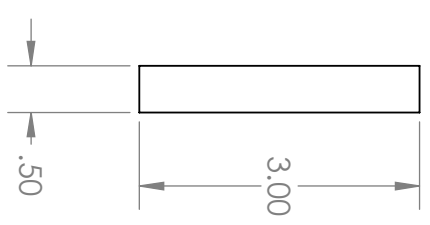
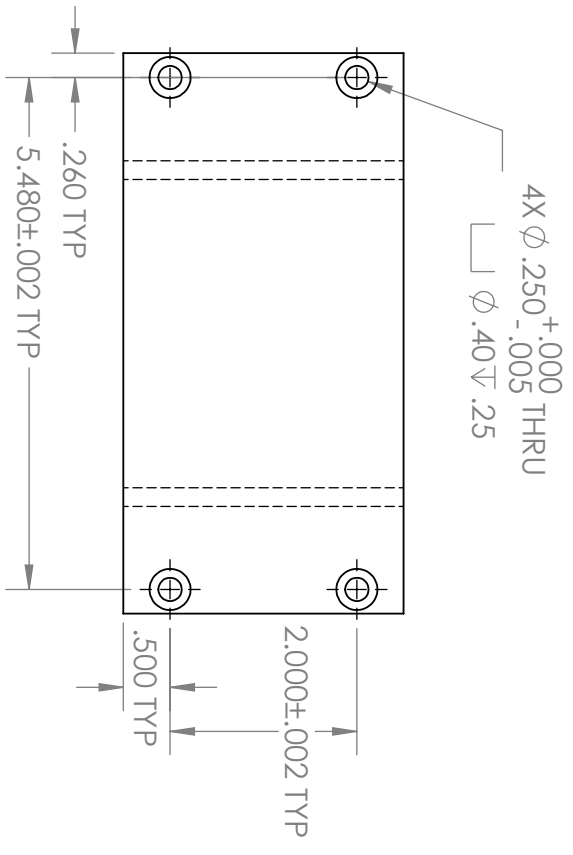
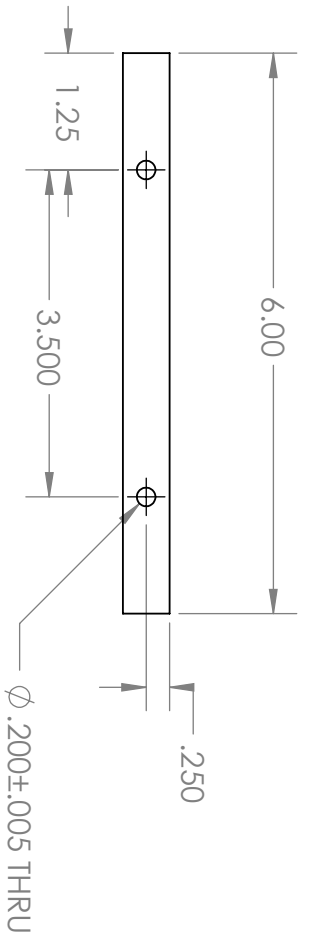
SIZE DWG. NO. REV


A 1

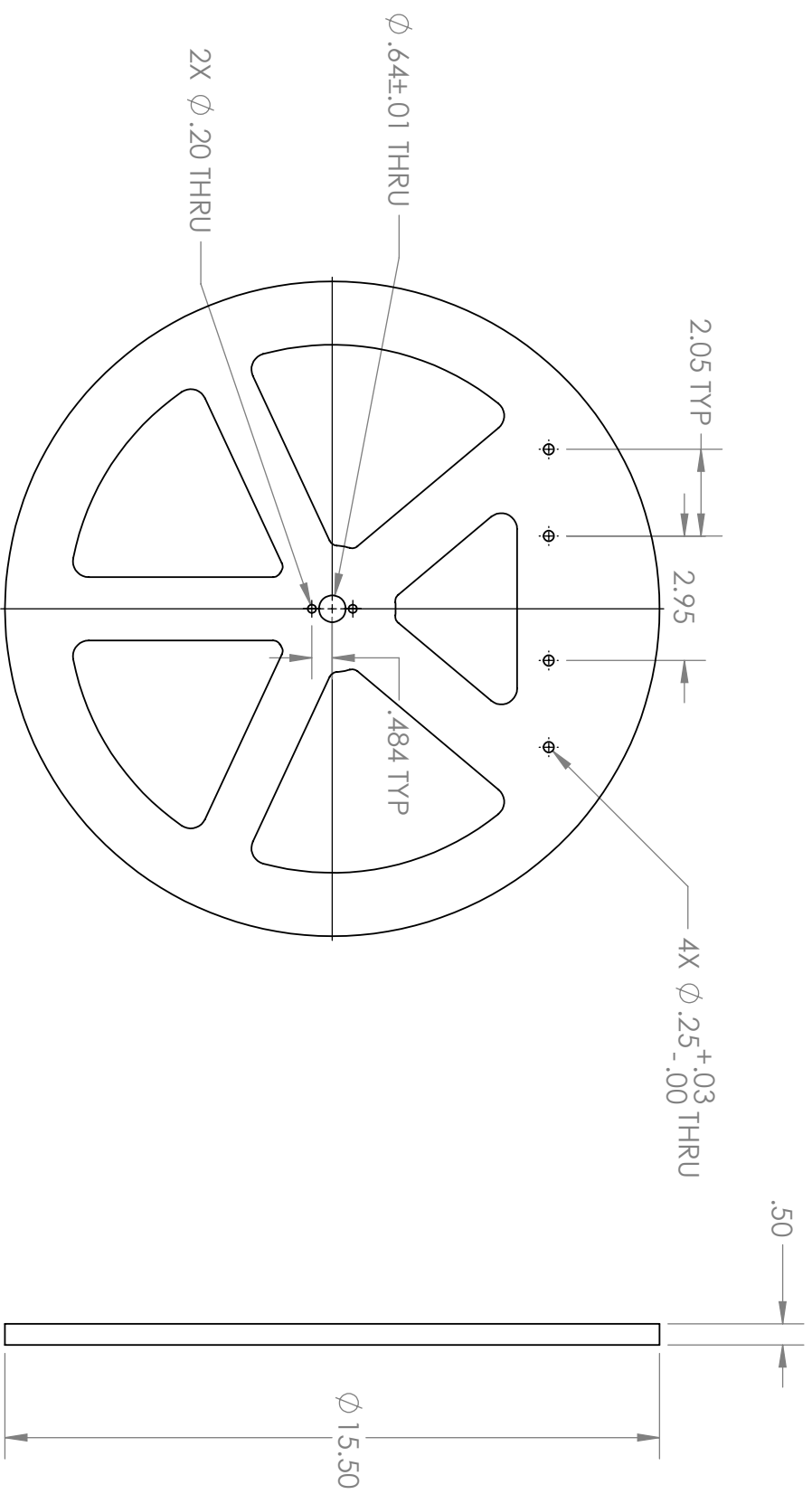
SCALE: 1:2 WEIGHT: SHEET 6 OF 8

2X

5 4 3 2 1



UNLESS OTHERWISE SPECIFIED:		DRAWN		NAME	DATE	TITLE:	
DIMENSIONS ARE IN INCHES		CHECKED		MTK	5/9/19	Drive Lower Gearbox Bottom	
TOLERANCES:		ENG APPR.					
ANGULAR: MACH ± .30'		MFG APPR.				SIZE	DWG. NO.
TWO PLACE DECIMAL ± .01		Q.A.				A	
THREE PLACE DECIMAL ± .003		COMMENTS:				SCALE: 1:2	WEIGHT:
INTERPRET GEOMETRIC TOLERANCING PER:		-Bottom of Drive system					SHEET 7 OF 8
MATERIAL		Lower Gearbox					REV
Aluminum							1
FINISH							
As Machined							
DO NOT SCALE DRAWING							



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:

ANGULAR: MACH ± 30'
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL
Wood

FINISH
As Machined

DO NOT SCALE DRAWING

DRAWN	NAME	DATE
CHECKED	MTK	5/30/19
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:
-Front Steering Wheel
-To be made on shopbot
thus only key dimensions
called out

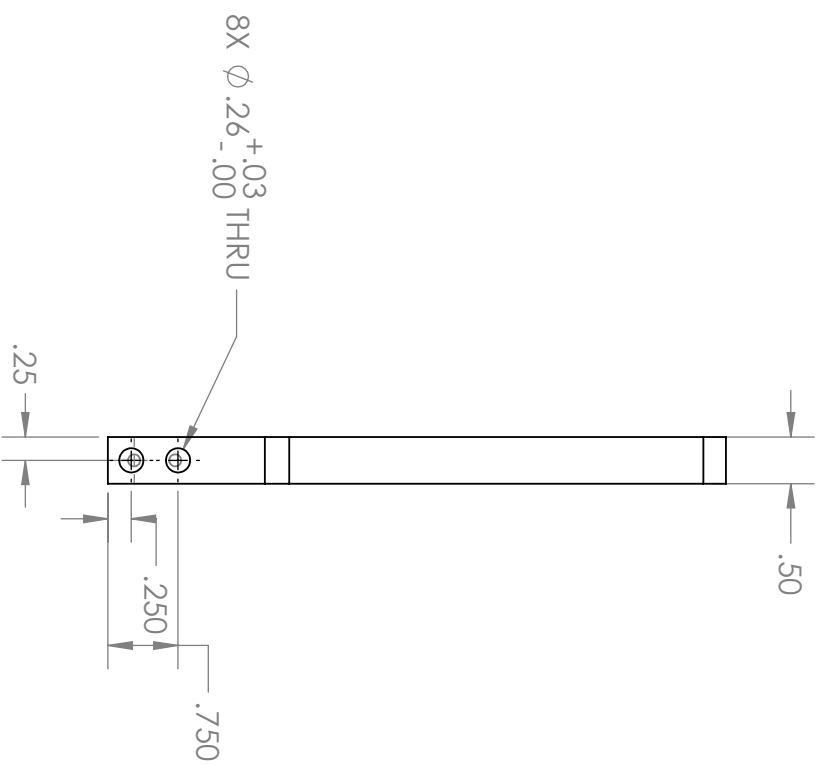
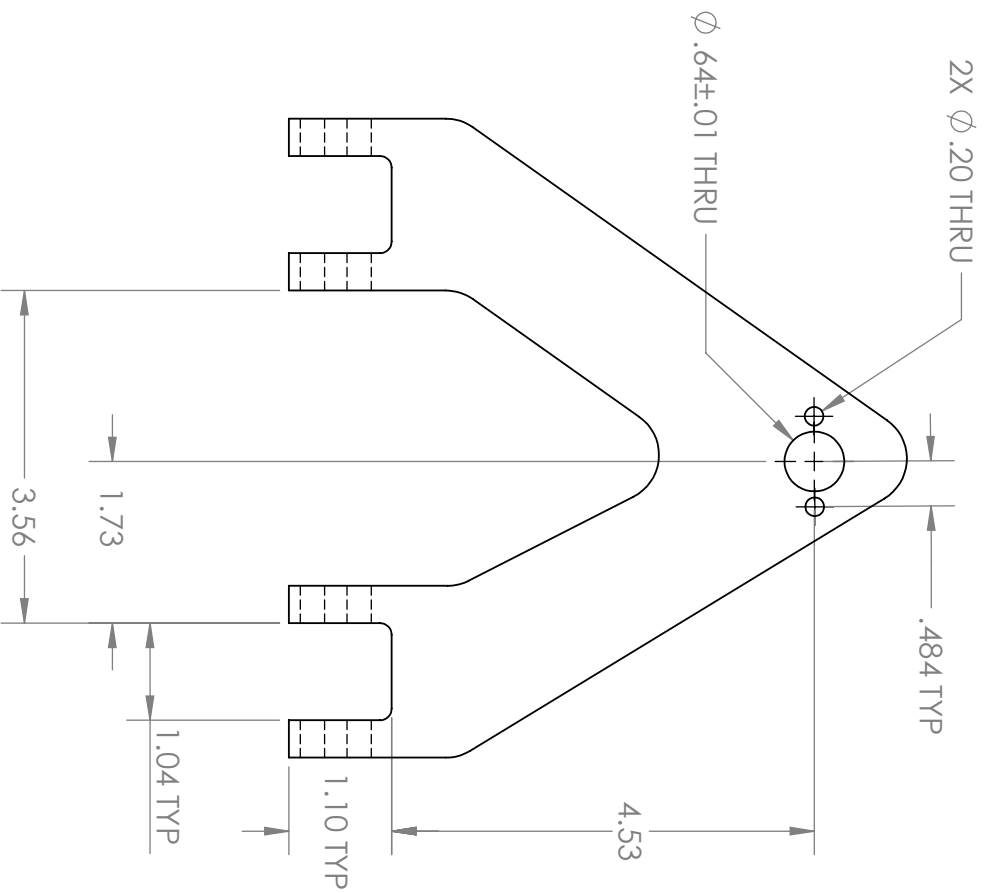
TITLE: **Driving Steering Wheel**



SIZE DWG. NO. REV

A

SCALE: 1:2 WEIGHT: SHEET 6 OF 6



2X

5 4 3 2 1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:

ANGULAR: MACH ± 30'
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL
Wood

FINISH
As Machined

DO NOT SCALE DRAWING

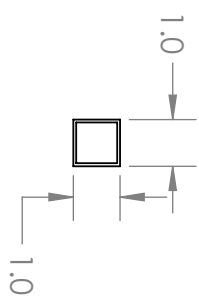
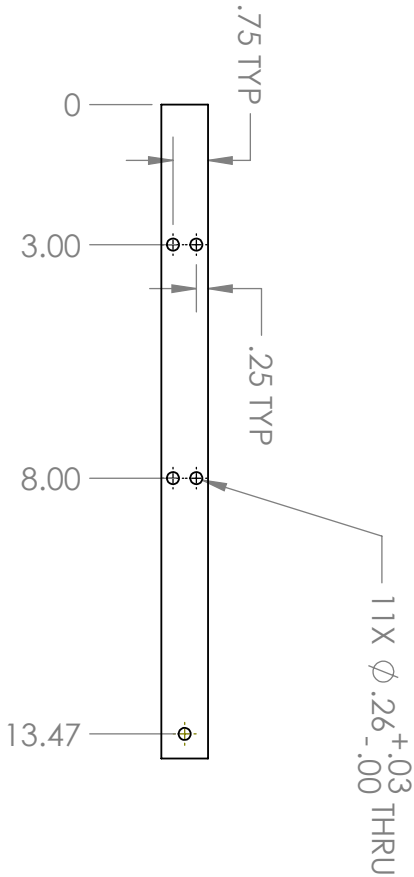
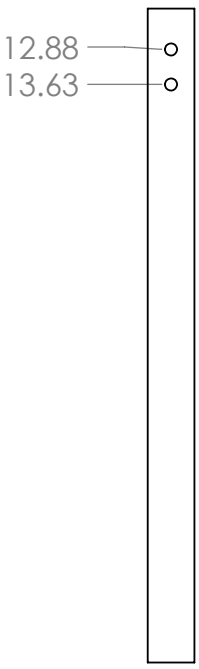
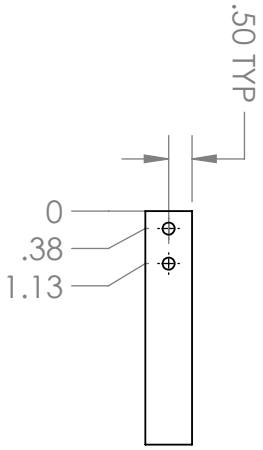
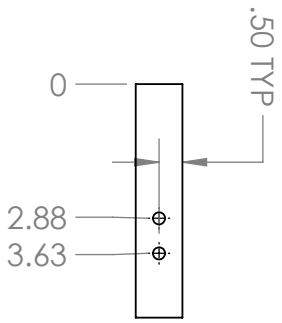
TITLE: Steering Support Plate



SIZE DWG. NO. REV

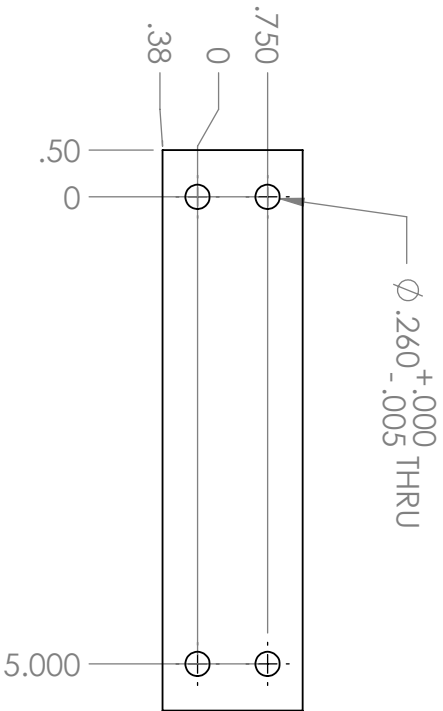
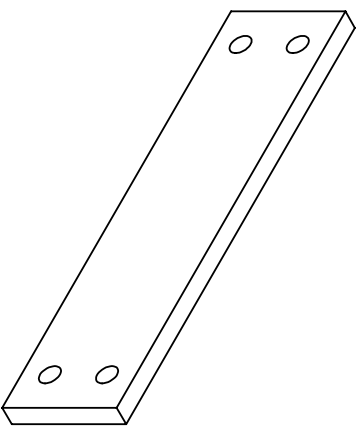
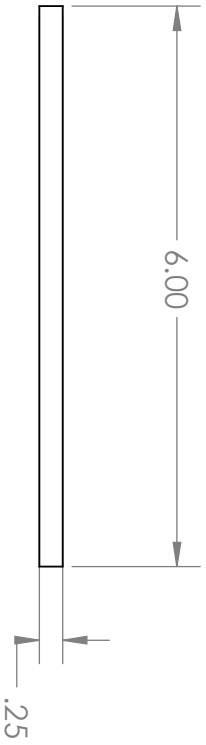
A

SCALE: 1:2 WEIGHT: SHEET 5 OF 6



5 4 3 2 1

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± .30' TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .003 INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL Aluminum FINISH As Machined DO NOT SCALE DRAWING		DRAWN	NAME	DATE	TITLE:
CHECKED	MTK	5/10/19	Cut Square Wheel Rod		
ENG APPR.			TAYLOR SCHOOL OF ENGINEERING AT DARTMOUTH		
MFG APPR.			1957		
Q.A.			REV		
COMMENTS: -Cut Square Aluminum Rod to support wheel		SIZE		DWG. NO.	
		A		1	
		SCALE: 1:2		WEIGHT:	
		SHEET 4 OF 4			



2X

5

4

3

2

1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:

ANGULAR: MACH ± .30°
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL
Aluminum

FINISH
As Machined

DO NOT SCALE DRAWING

DRAWN	NAME	DATE
CHECKED	MTK	5/10/19
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

-Plate to Tie Square
Aluminum Rods Together
-Need 2X

TITLE:

Wheel Shaft Tie



THAYER SCHOOL OF
ENGINEERING
AT DARTMOUTH

SIZE DWG. NO.

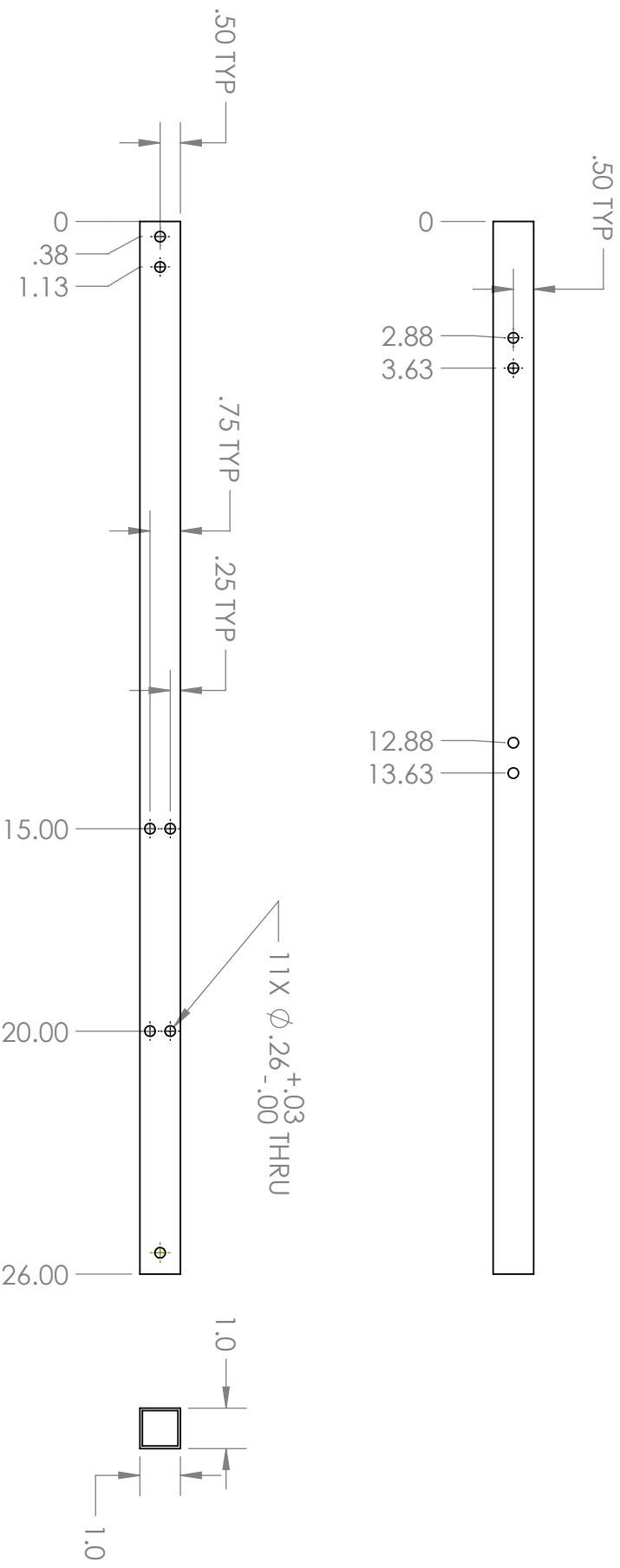
A

REV

1

SCALE: 1:2 WEIGHT:

SHEET 2 OF 4



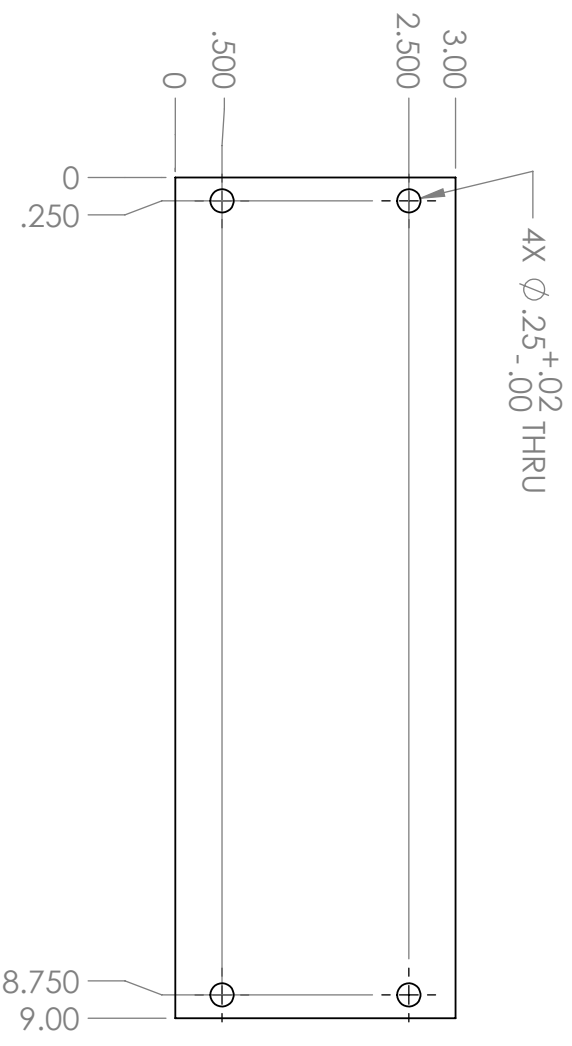
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DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: MACH ± .30'
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL
Aluminum
FINISH
As Machined
DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE:
DRAWN	MTK	5/10/19	Square Wheel Rod
CHECKED			
ENG APPR.			
MFG APPR.			
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
COMMENTS: -Square Aluminum Rod to support wheel			




SIZE	DWG. NO.	REV
A		1
SCALE: 1:2	WEIGHT:	SHEET 3 OF 4

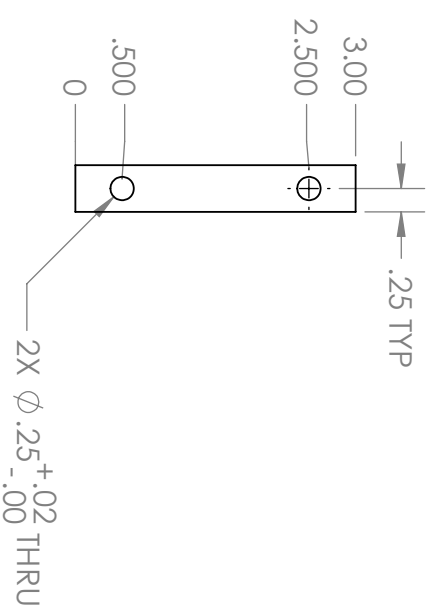
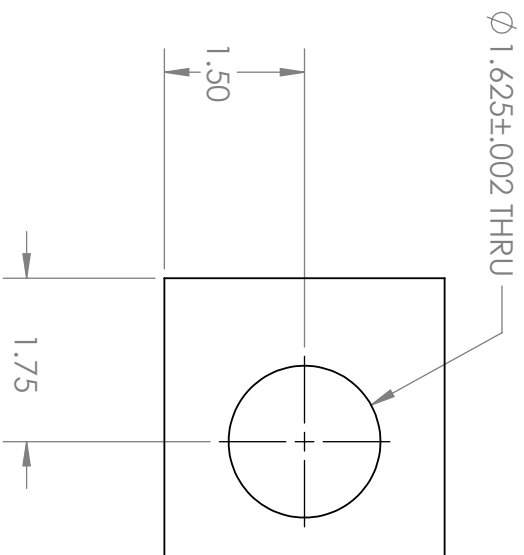
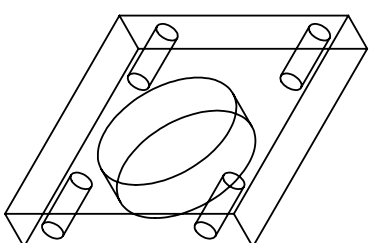
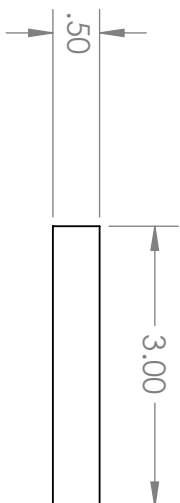
5 4 3 2 1



Machined on 1/4" plate

5 4 3 2 1

UNLESS OTHERWISE SPECIFIED:		DRAWN		NAME	DATE	TITLE: Pedal Top Plate 			
DIMENSIONS ARE IN INCHES		CHECKED	MTK	5/19/19					
TOLERANCES:		ENG APPR.							
ANGULAR: MACH ± .30°		MFG APPR.							
TWO PLACE DECIMAL ±.01		Q.A.			SIZE	DWG. NO.	REV		
THREE PLACE DECIMAL ±.003		COMMENTS:	-Top Plate for Pedal Box			A		1	
INTERPRET GEOMETRIC TOLERANCING PER:							SCALE: 1:2	WEIGHT:	SHEET 2 OF 4
MATERIAL		Aluminum							
FINISH		As Machined							
DO NOT SCALE DRAWING									



2X

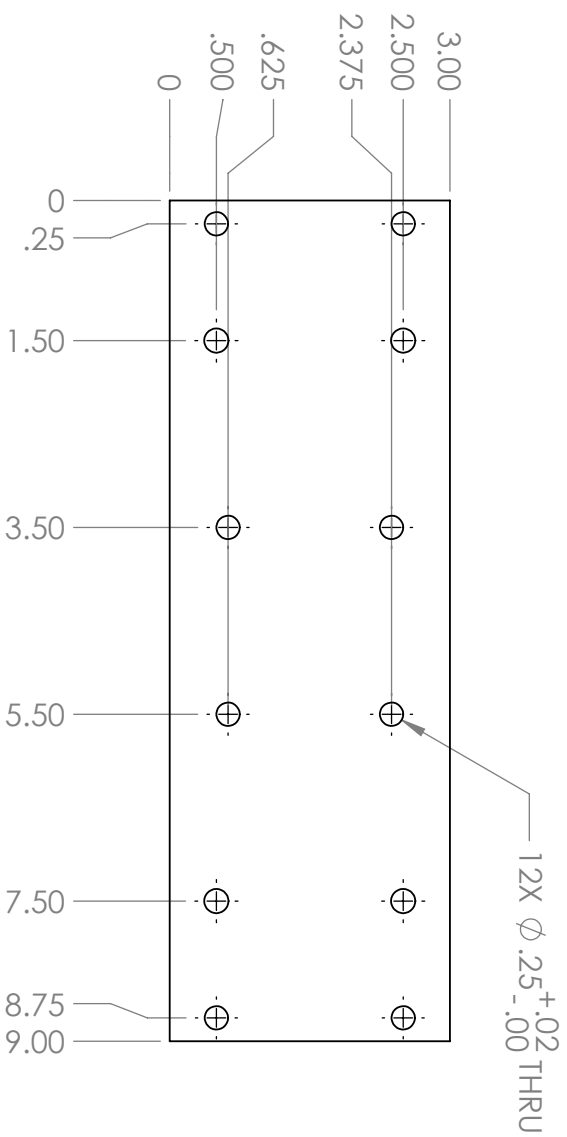
5 4 3 2 1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: MACH ± .30'
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003
INTERPRET GEOMETRIC
TOLERANCING PER:
MATERIAL
Aluminum
FINISH
As Machined
DO NOT SCALE DRAWING


DRAWN	NAME	DATE	TITLE:
CHECKED	MTK	5/19/19	Pedal Side Plate
ENG APPR.			 THAYER SCHOOL OF ENGINEERING AT DARTMOUTH
MFG APPR.			
Q.A.			COMMENTS: -Side Plate for Pedal Box -Need 2X

SIZE	DWG. NO.	REV
A		1

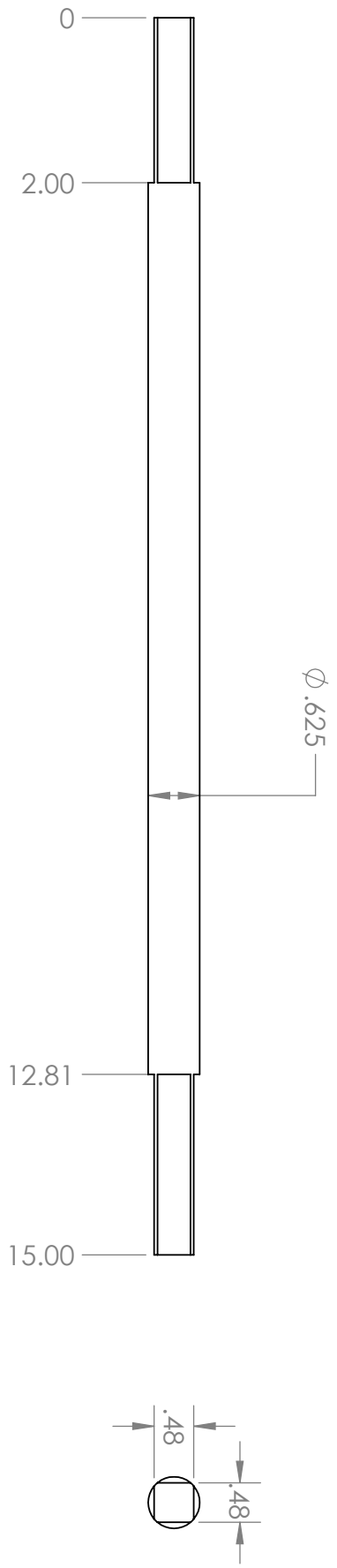
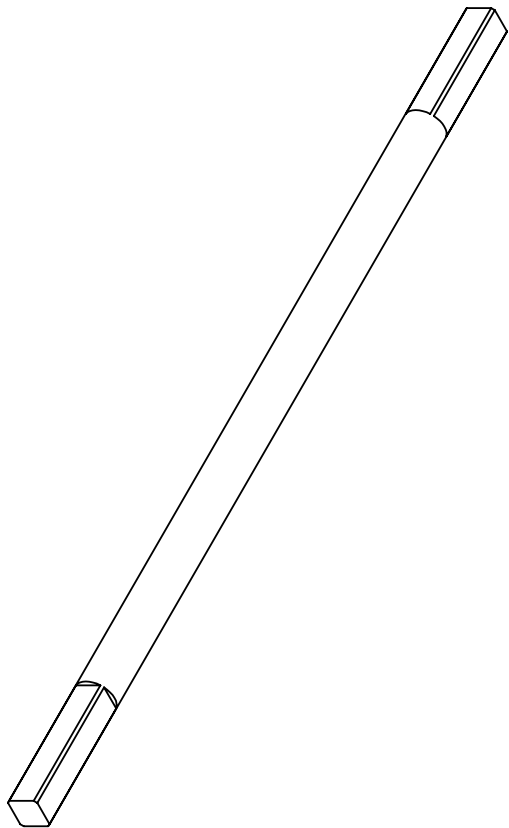
SCALE: 1:2 WEIGHT: SHEET 1 OF 4



Machined on 1/4" plate

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± .30' TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .003 INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL Aluminum FINISH As Machined DO NOT SCALE DRAWING		DRAWN CHECKED ENG APPR. MFG APPR. Q.A.	NAME MTK	DATE 5/19/19	TITLE: Pedal Bottom Plate
COMMENTS: -Bottom Plate for Pedal Box					SIZE A
		DWG. NO.			REV 1
		SCALE: 1:2			WEIGHT:
		SHEET 3 OF 4			

5 4 3 2 1



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:

ANGULAR: MACH ± .30°
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .003

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL
Aluminum

FINISH
As Machined

DO NOT SCALE DRAWING

DRAWN	NAME	DATE
CHECKED	MTK	5/19/19
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:
-Shaft for Pedal

TITLE:
Pedal Shaft



SIZE DWG. NO.

A

SCALE: 1:2 WEIGHT:

REV

1

SHEET 4 OF 4

5 4 3 2 1