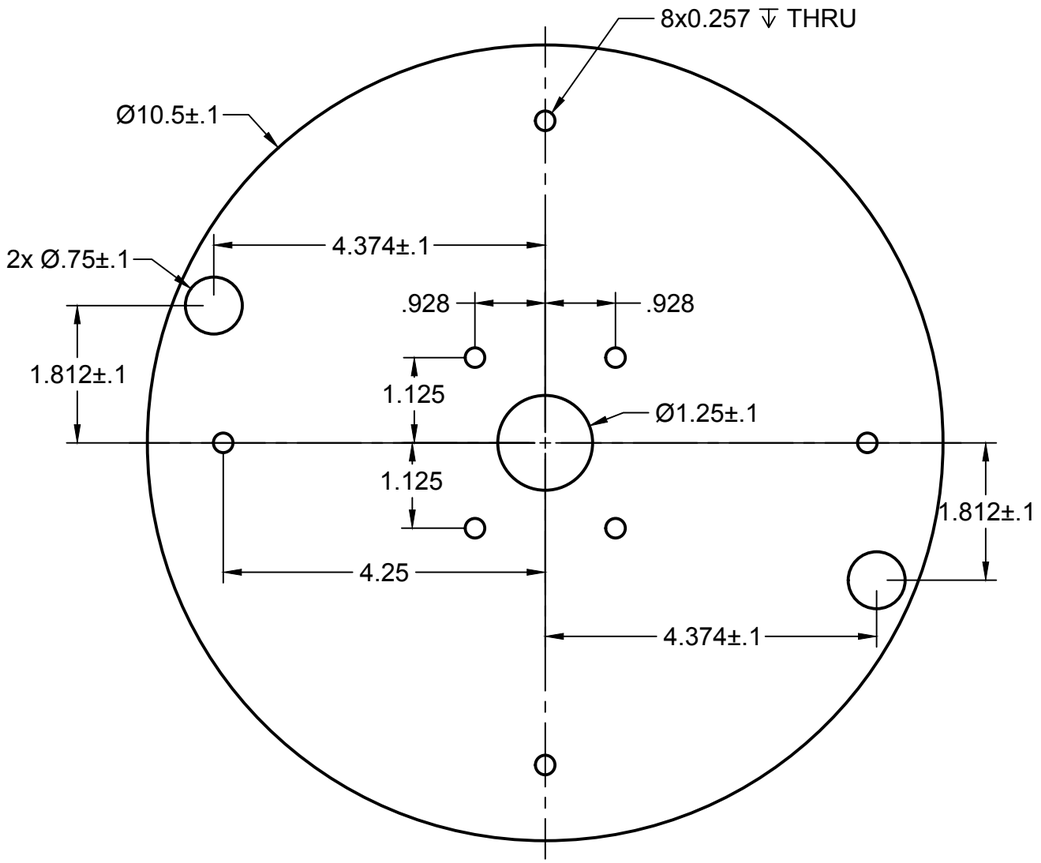
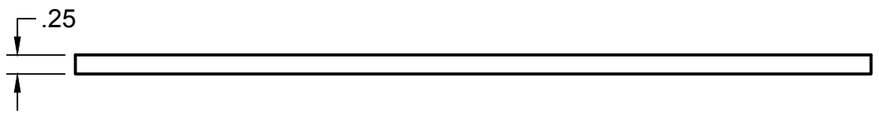
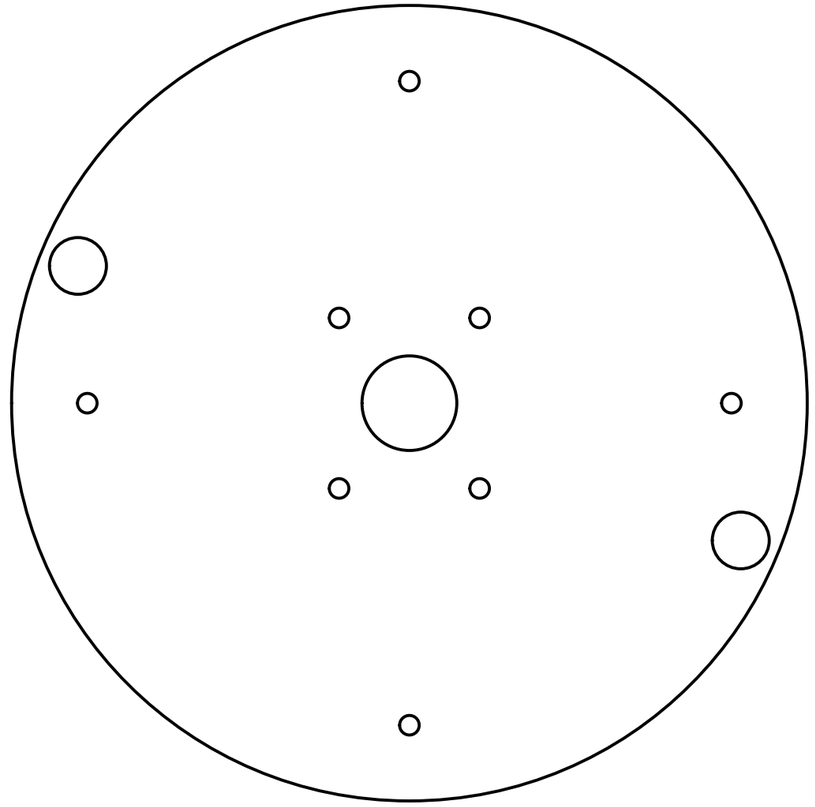




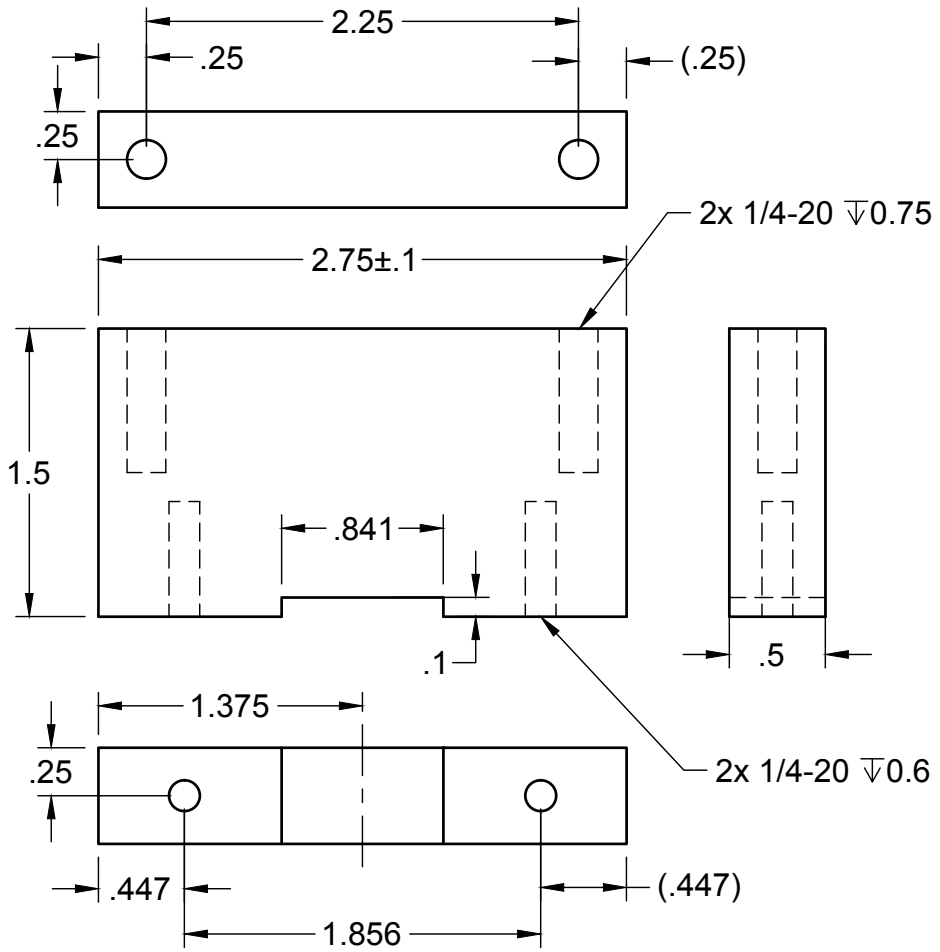


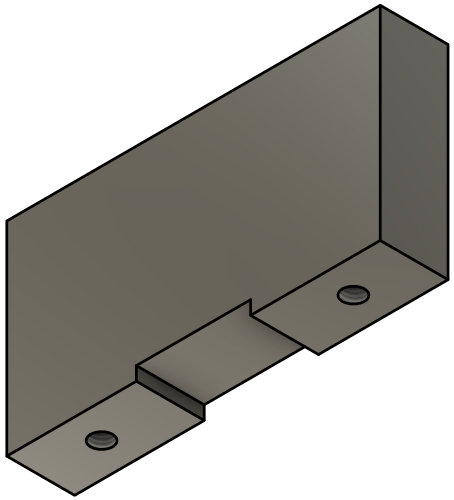
NOTE: Second base drawing provided for reference to better illustrate part's overall geometry without clutter of dimensions.

All tolerances ±0.01 unless otherwise specified.

NOTE: Most dimensions are given from center point of the plate. It would be wise to use the center as a zero when machining.

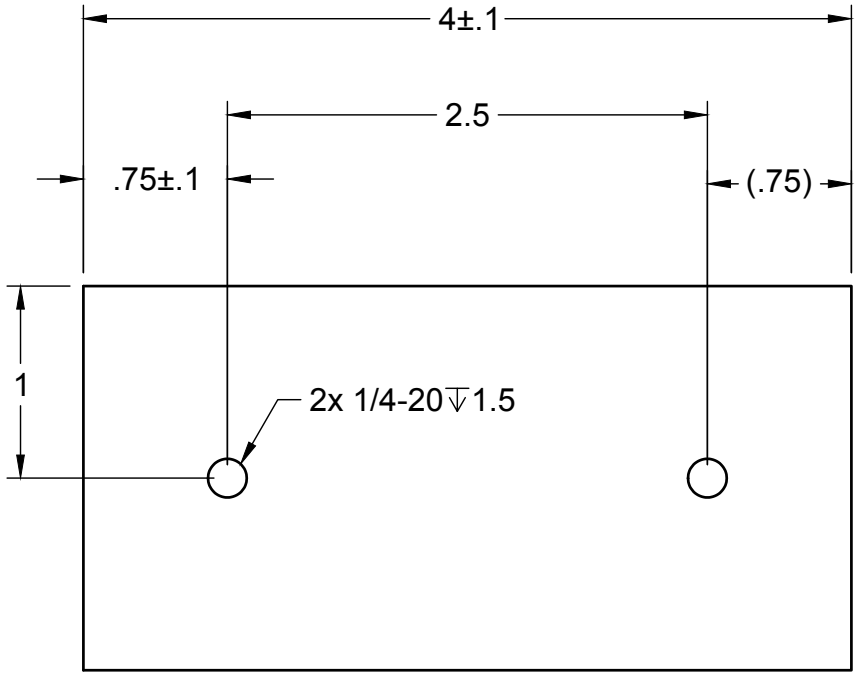
	PROJECT: RATS			
	TITLE: Base Plate			
APPROVED	SIZE: B	CODE	DWG NO	REV: 1
CHECKED				
DRAWN: Thomas Rimer 1/7/25	SCALE: 1:2	WEIGHT	SHEET: 1/1	

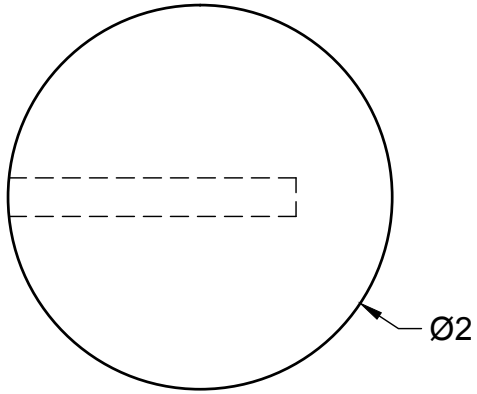


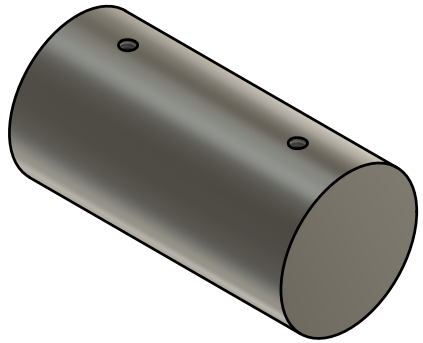


All tolerances ±0.01 unless otherwise specified.

PROJECT: RATS				
TITLE: Bottom Motor Mount				
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			1
DRAWN Thomas Rimer 1/7/25	SCALE 1:1	WEIGHT		SHEET 1/1

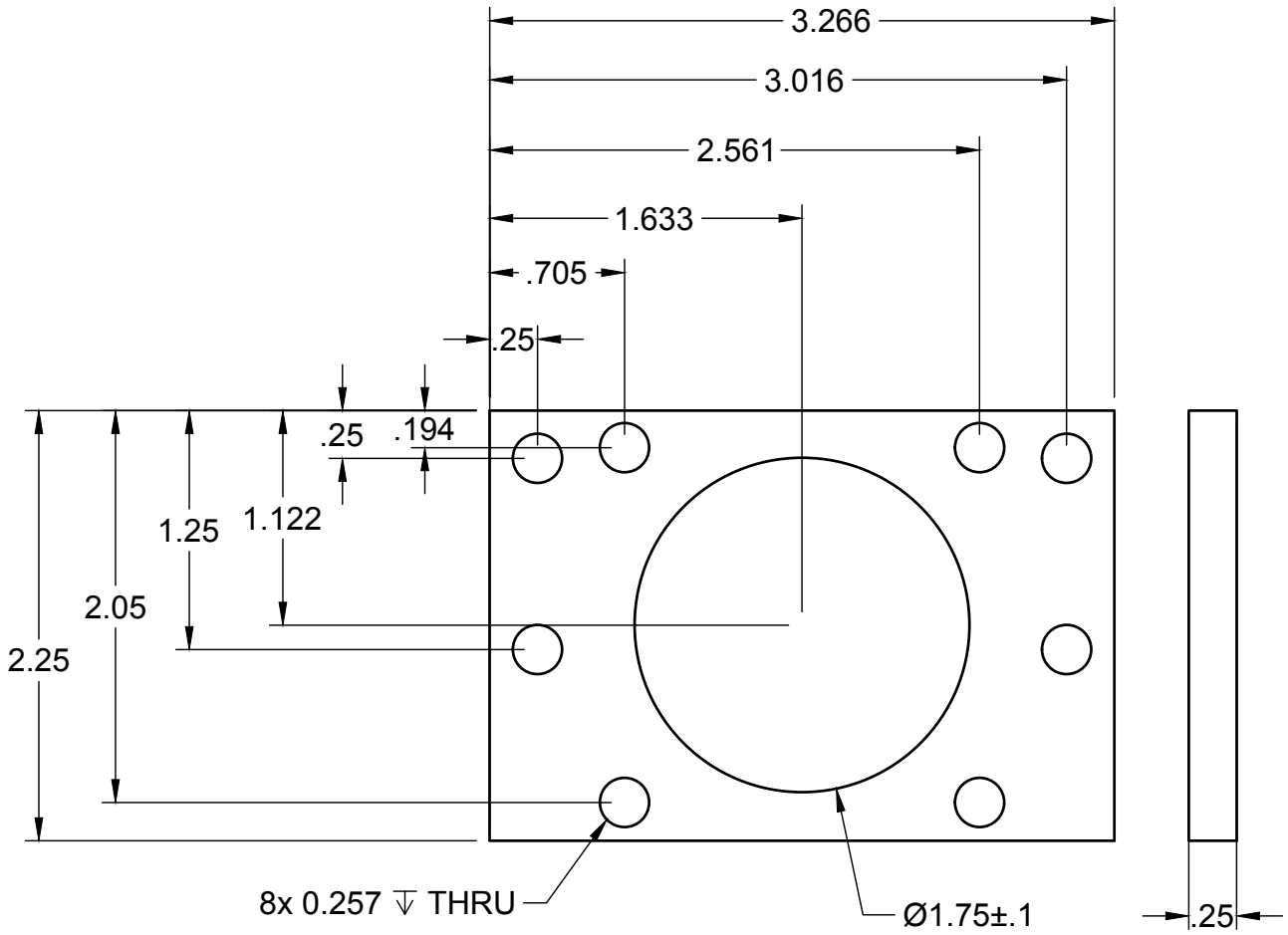


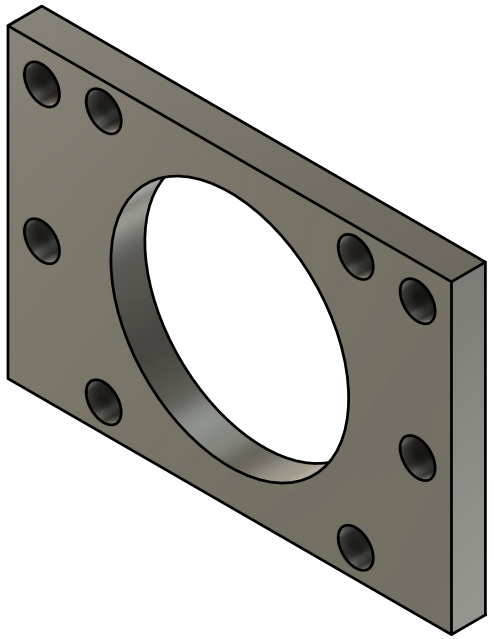




All tolerances ±0.01 unless otherwise specified.

	PROJECT: RATS				
	TITLE: Counterbalance Mass				
APPROVED	SIZE: A	CODE	DWG NO		REV: 1
CHECKED					
DRAWN: Thomas Rimer 1/7/25	SCALE: 1:1		WEIGHT		SHEET: 1/1



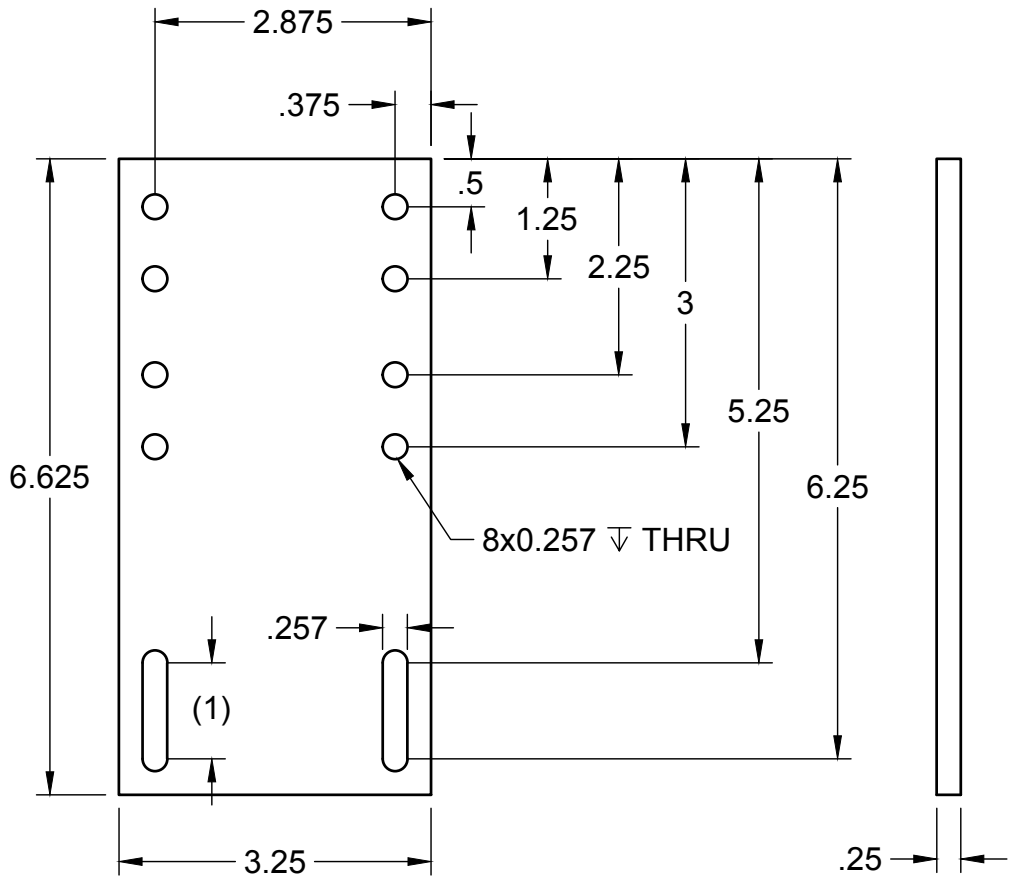


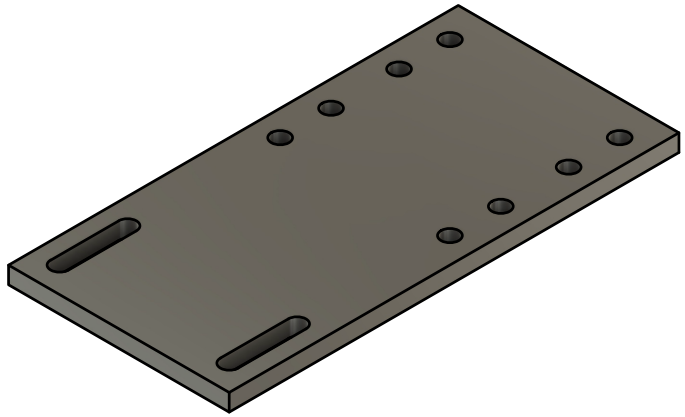
All tolerances ±0.01 unless otherwise specified.

PROJECT
RATS

TITLE
Elevator Motor Mount Plate

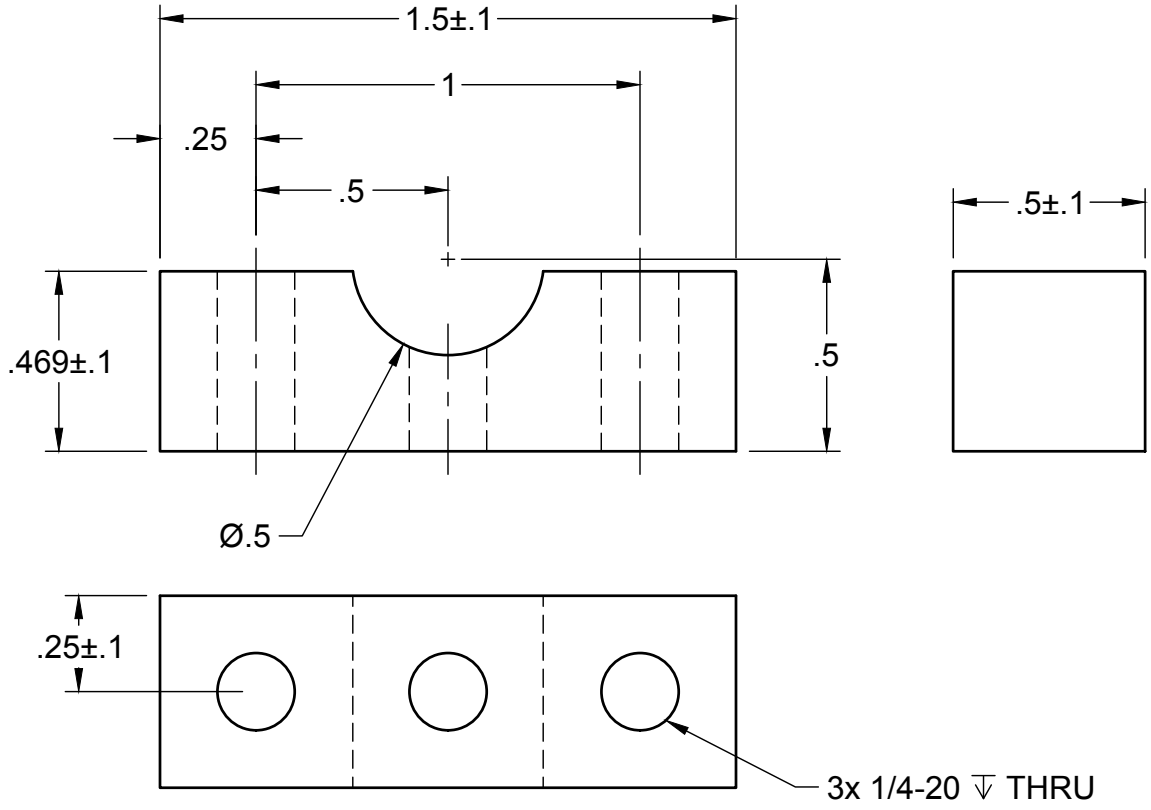
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			1
DRAWN Thomas Rimer 1/7/25	SCALE 1:1	WEIGHT		SHEET 1/1

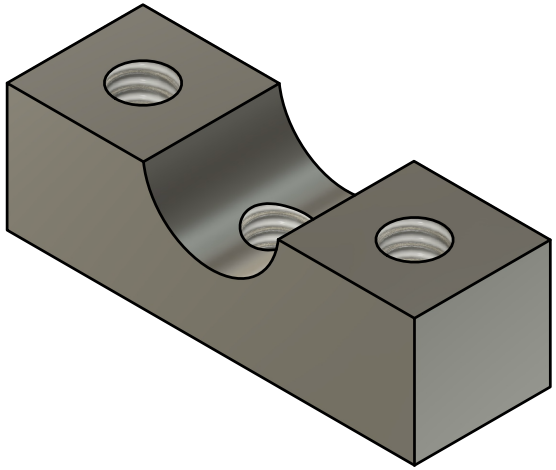




All tolerances ±0.01 unless otherwise specified.

	PROJECT: RATS			
	TITLE: Elevator Plate			
APPROVED	SIZE: A	CODE	DWG NO	REV: 1
CHECKED				
DRAWN: Thomas Rimer 1/7/25	SCALE: 1:2	WEIGHT	SHEET: 1/1	

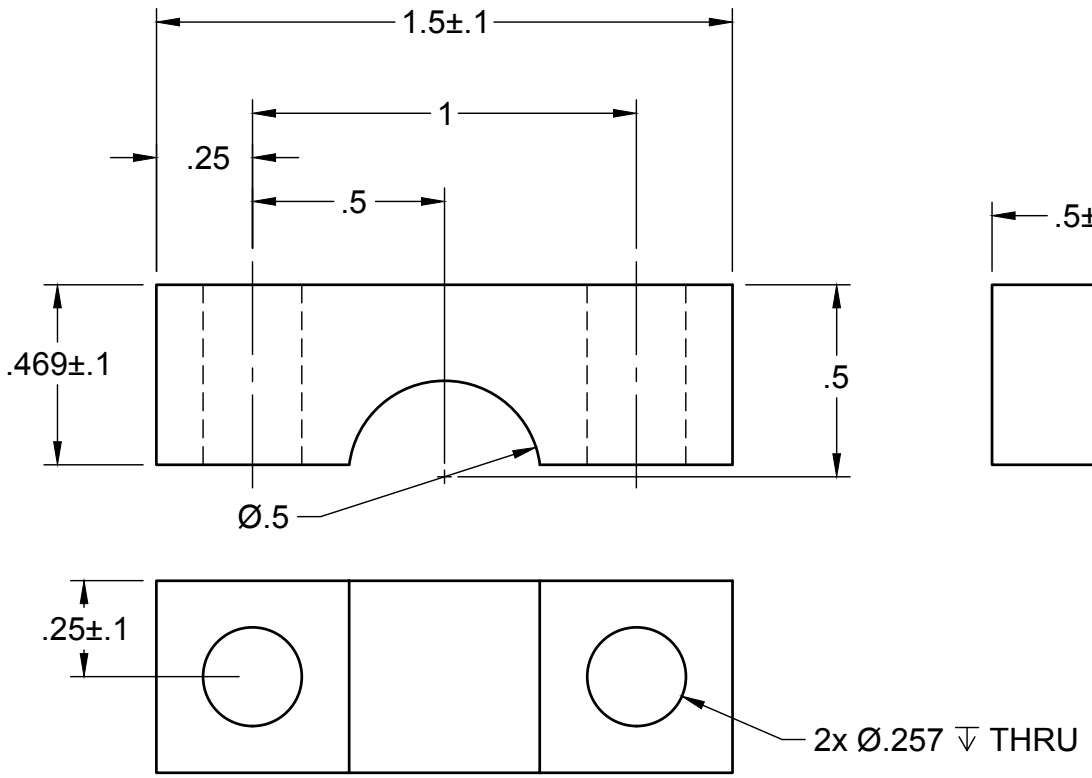


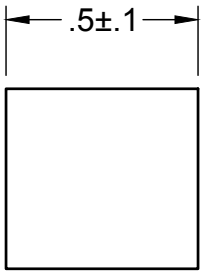


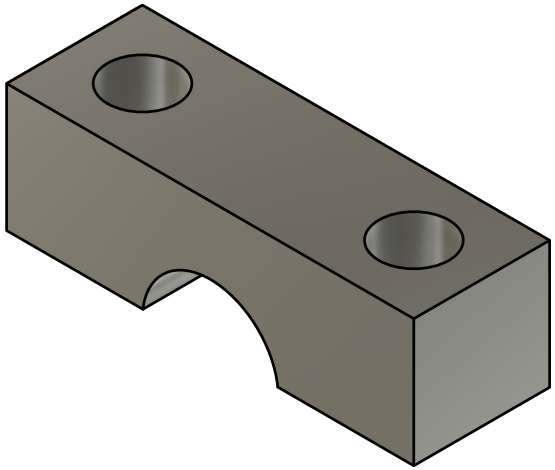
NOTE: This part should be manufactured in conjunction with the "Horizontal Shaft Upper Mount". They should be machined from the same piece of $\frac{1}{2}$" aluminum bar, then cut in half with a $\frac{1}{8}$" blade yielding the top and bottom components.

All tolerances ±0.01 unless otherwise specified.

	PROJECT: RATS			
	TITLE: Horizontal Shaft Lower Mount			
APPROVED	SIZE: A	CODE	DWG NO	REV: 1
CHECKED				
DRAWN: Thomas Rimer 1/11/25	SCALE: 2:1	WEIGHT	SHEET: 1/1	



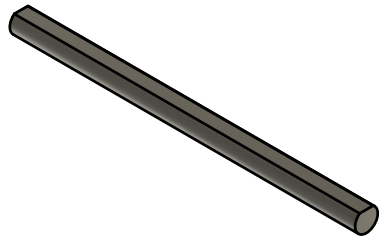


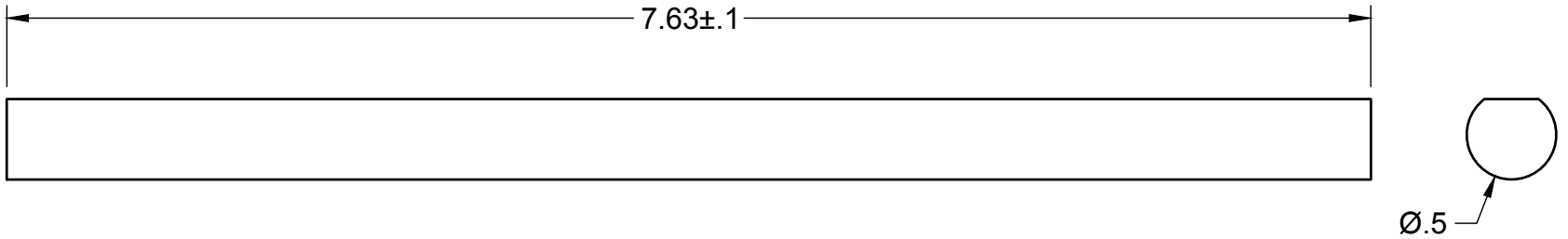


NOTE: This part should be manufactured in conjunction with the "Horizontal Shaft Lower Mount". They should be machined from the same piece of $\frac{1}{2}$" aluminum bar, then cut in half with a $\frac{1}{8}$" blade yielding the top and bottom components.

All tolerances ±0.01 unless otherwise specified.

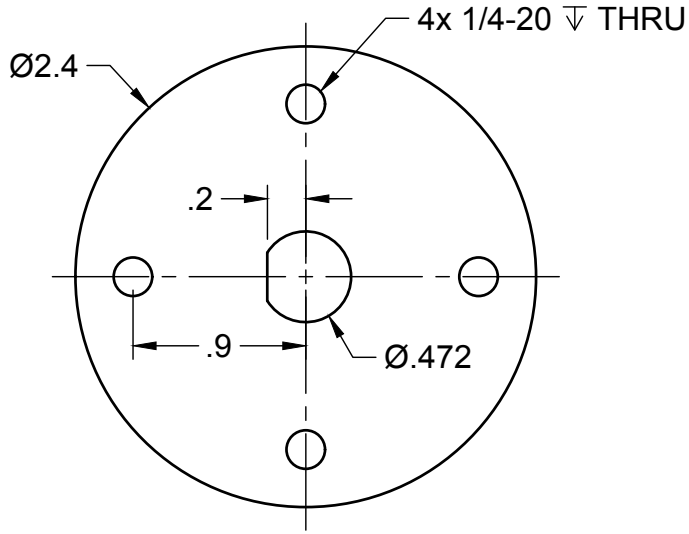
	PROJECT: RATS			
	TITLE: Horizontal Shaft Upper Mount			
APPROVED	SIZE: A	CODE	DWG NO	REV: 1
CHECKED				
DRAWN: Thomas Rimer 1/11/25	SCALE: 2:1	WEIGHT	SHEET: 1/1	

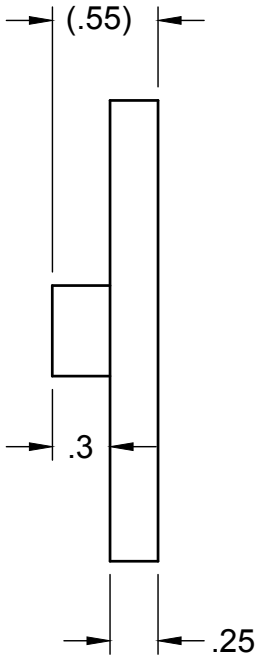


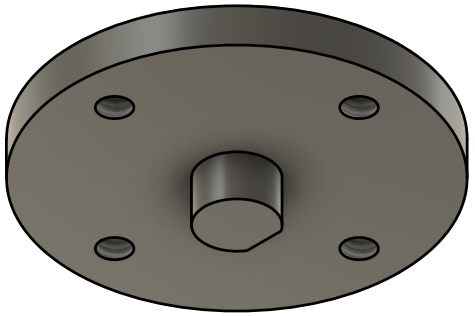


All tolerances ±0.01 unless otherwise specified.

	PROJECT: RATS				
	TITLE: Hortizontal Shaft				
APPROVED	SIZE: A	CODE	DWG NO		REV: 1
CHECKED					
DRAWN: Thomas Rimer 1/11/25	SCALE: 1:1	WEIGHT		SHEET: 1/1	

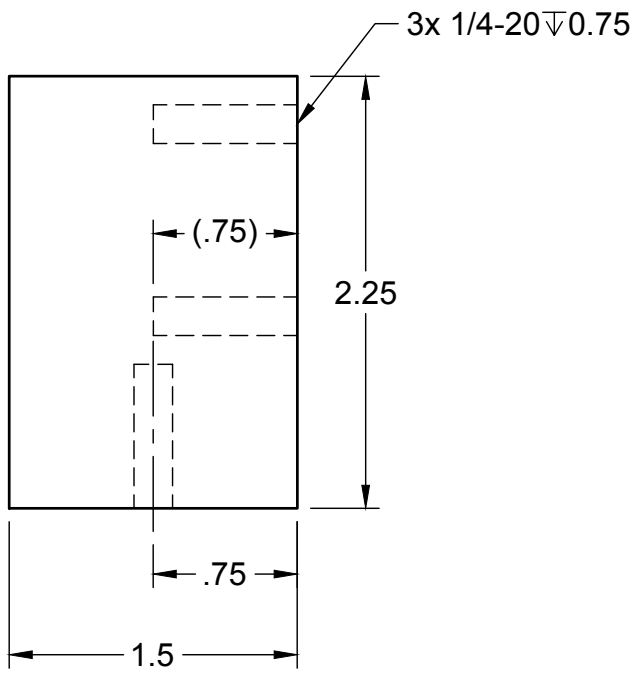


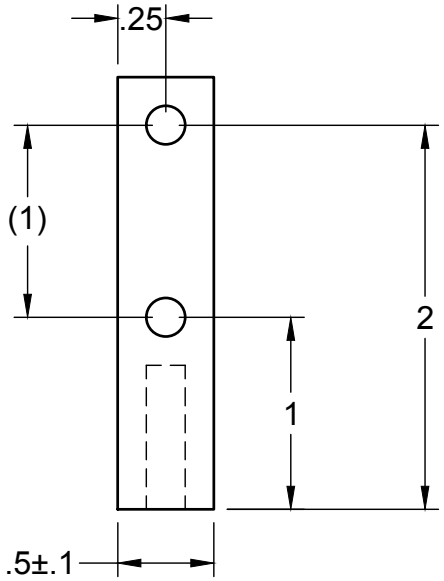


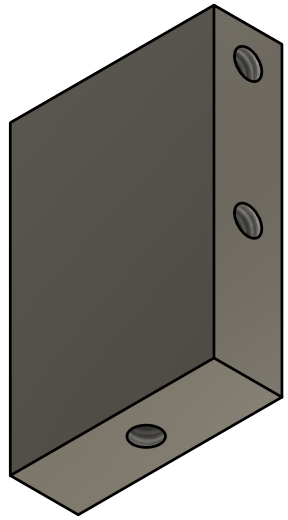


All tolerances ±0.01 unless otherwise specified.

	PROJECT: RATS			
	TITLE: Motor Hub Mount			
APPROVED	SIZE: A	CODE	DWG NO	REV: 1
CHECKED				
DRAWN Thomas Rimer 1/7/25	SCALE 1:1	WEIGHT		SHEET 1/1

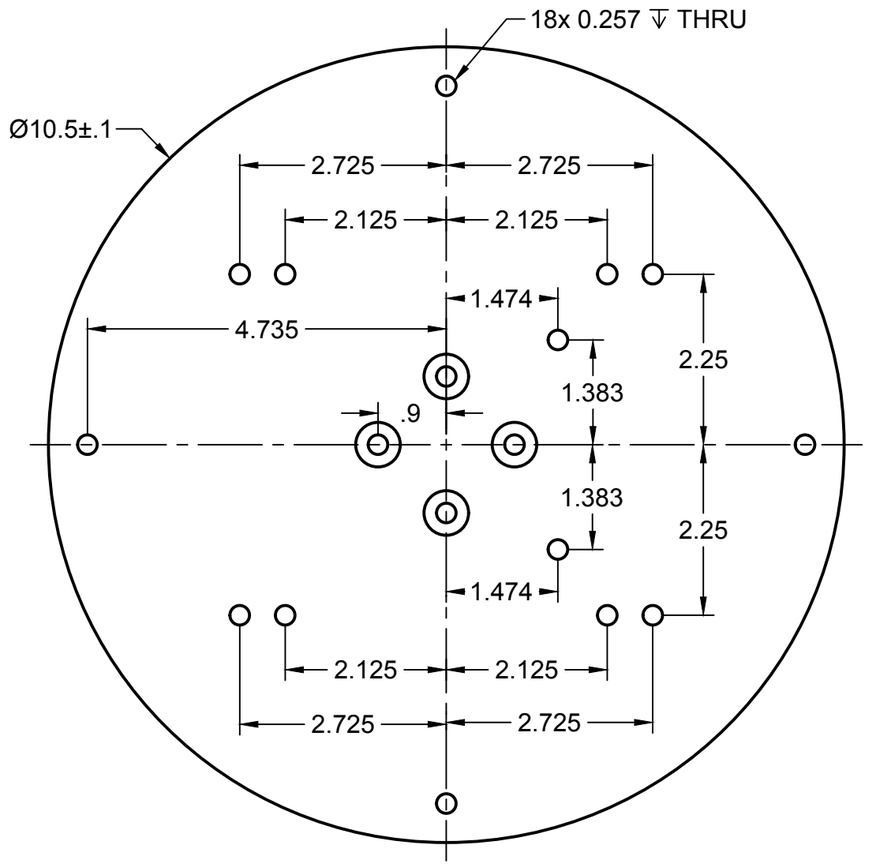


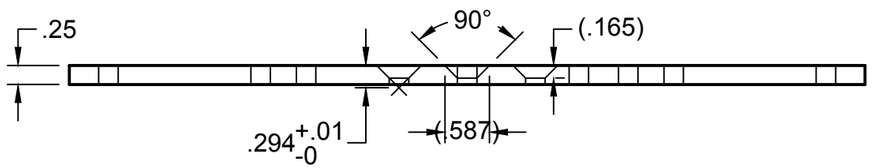


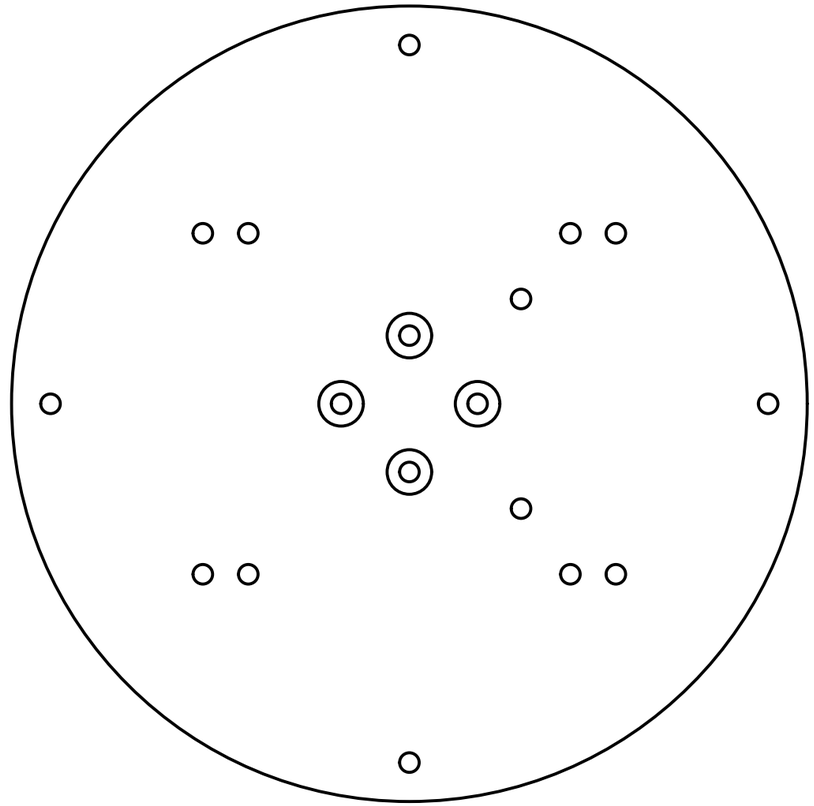


All tolerances ±0.01 unless otherwise specified.

	PROJECT: RATS			
	TITLE: Motor Mount Corner Bracket			
APPROVED	SIZE: A	CODE	DWG NO	REV: 1
CHECKED				
DRAWN: Thomas Rimer 1/7/25	SCALE: 1:1	WEIGHT		SHEET: 1/1







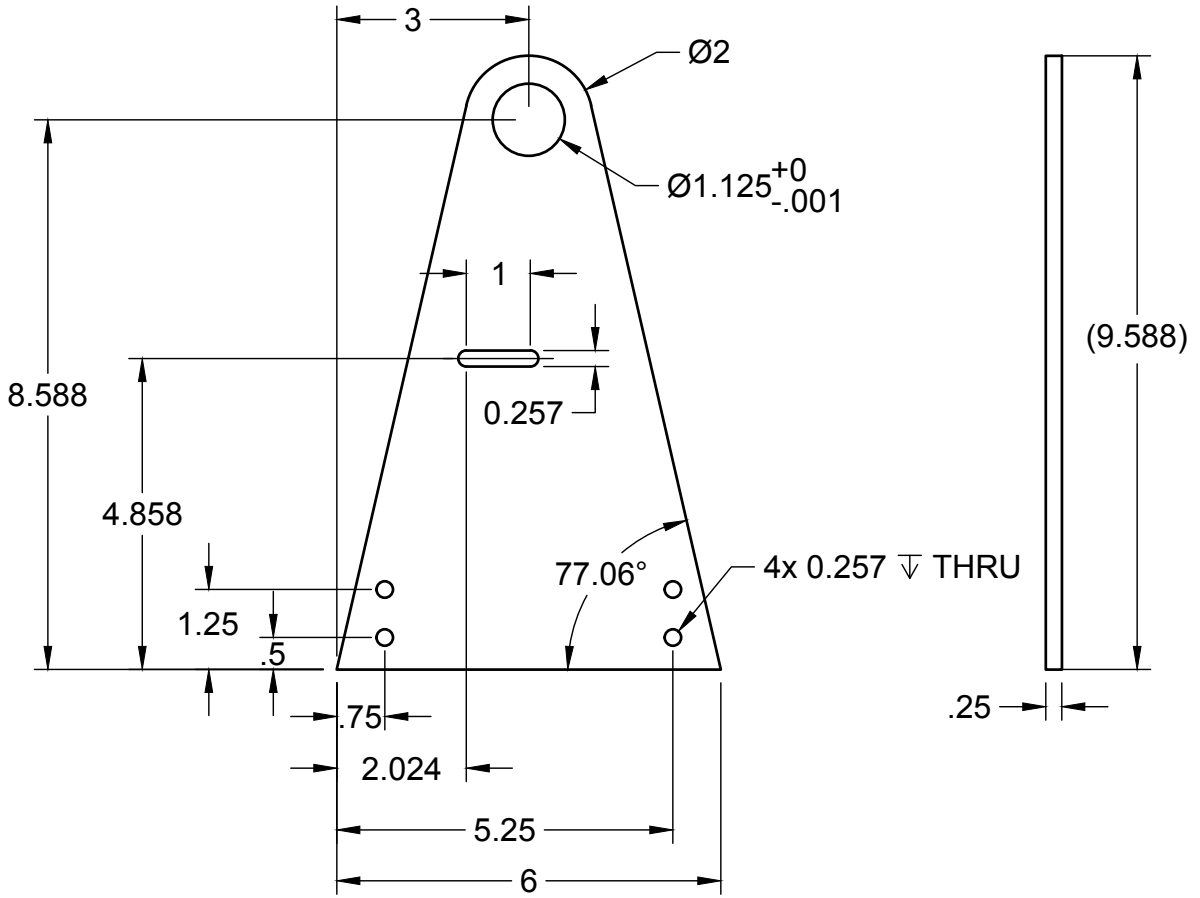
NOTE: Second base drawing provided for reference to better illustrate part's overall geometry without clutter of dimensions.

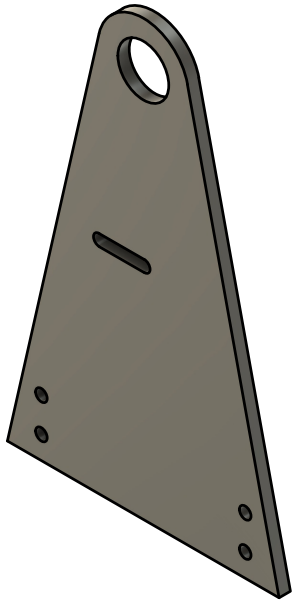
All tolerances ±0.01 unless otherwise specified.

NOTE: Most dimensions are given from center point of the plate. It would be wise to use the center as a zero when machining.

NOTE: The four holes closest to the center of the plate are countersunk, as indicated in the drawing. To reiterate, drive the tip of a 90° countersink 0.294" below the top of the plate.

	PROJECT: RATS			
	TITLE: Top Plate			
APPROVED	SIZE: B	CODE	DWG NO	REV: 1
CHECKED				
DRAWN: Thomas Rimer 1/7/25	SCALE: 1:2	WEIGHT	SHEET: 1/1	





NOTE: It's recommended to machine all features from a rectangular plate first. Add the angled sides and rounded top at the end. The angled side and rounded top can be foregone if machining proves too difficult.

All tolerances ±0.01 unless otherwise specified.

	PROJECT: RATS			
	TITLE: Vertical Post			
APPROVED	SIZE: A	CODE	DWG NO	REV: 1
CHECKED				
DRAWN: Thomas Rimer 1/7/25	SCALE: 1:3	WEIGHT	SHEET: 1/1	