

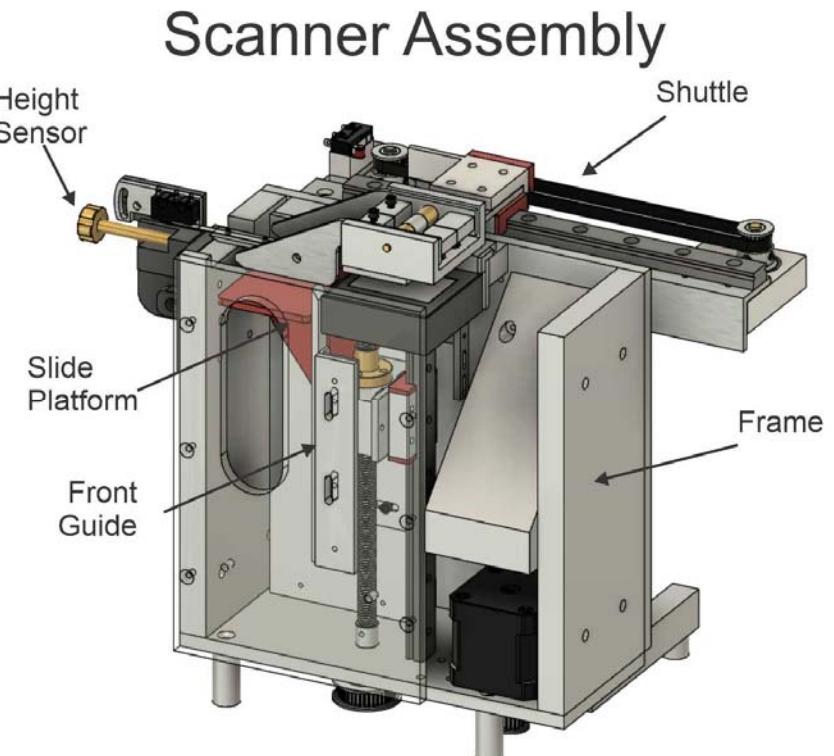
Slide Scanner Assembly and Drawings

May 18, 2021

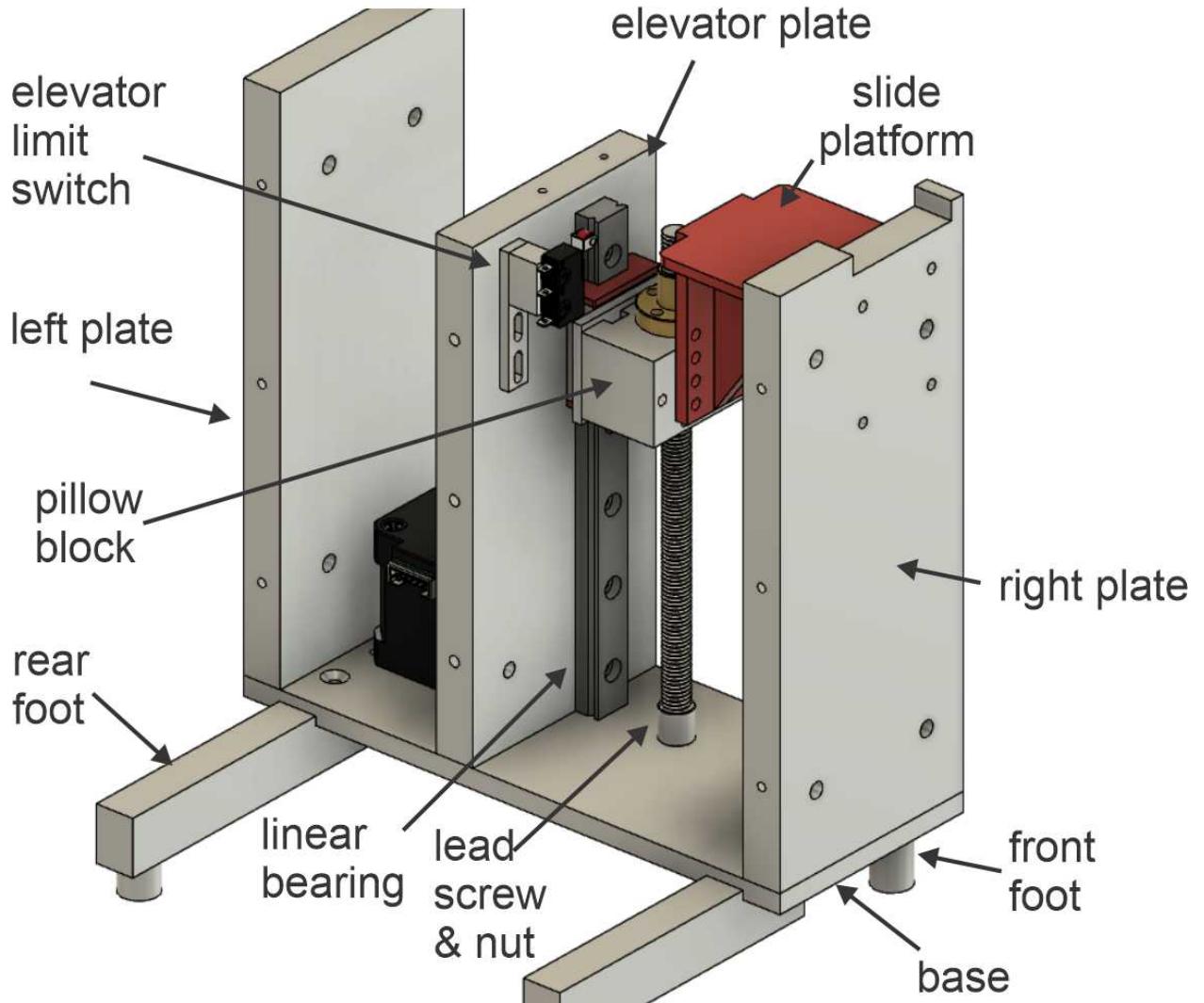
This section will outline the assembly of the slide scanner and a list of drawings of the individual parts. The best way to appreciate the assembly is with the Fusion 360 model which allows individual parts to be highlighted and show the arrangement of the parts in a 3D model. I have made working drawings of each part of which there are over 70 individual parts, some of which are in pairs. I have chosen to dimension these drawing in a way that suits my needs but may not be suitable for everyone. If a different dimension is needed, I would urge using the Fusion model to find any missing dimensions. Hopefully, these drawings should serve as a good first step. The main frame of the scanner was designed to be constructed with $\frac{1}{2}$ " Delrin. Delrin often comes slightly oversized. The system could be assembled with the raw Delrin without facing it to $\frac{1}{2}$ ". However, it will be necessary to take into account the placement of assembly holes. There are likely to be small errors in the model with regard to actual hole dimensions for screws, but the drawing indicates whether the holes are threaded (thrd) or clearance (clear) holes which can range from 0-80 to 8-32 threads.

A number of parts are best made as 3D printed parts. These parts are listed as 3D printed parts on the print. While some of these could be made with traditional milling, I choose to use 3D printing as much as possible. The prints will be arranged in four sections: "Frame", "Shuttle", "Height Sensor" and "Arduino Enclosure". Under each of these sections there are drawings which are referenced by the names as listed in the components from the Fusion 360 model. Each section will have a little overview which shows its parts and how they are assembled.

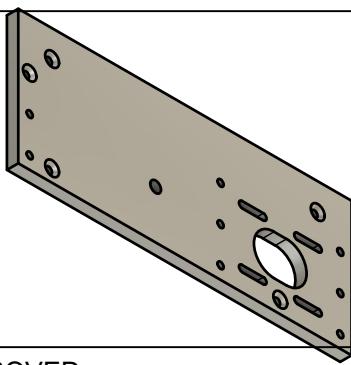
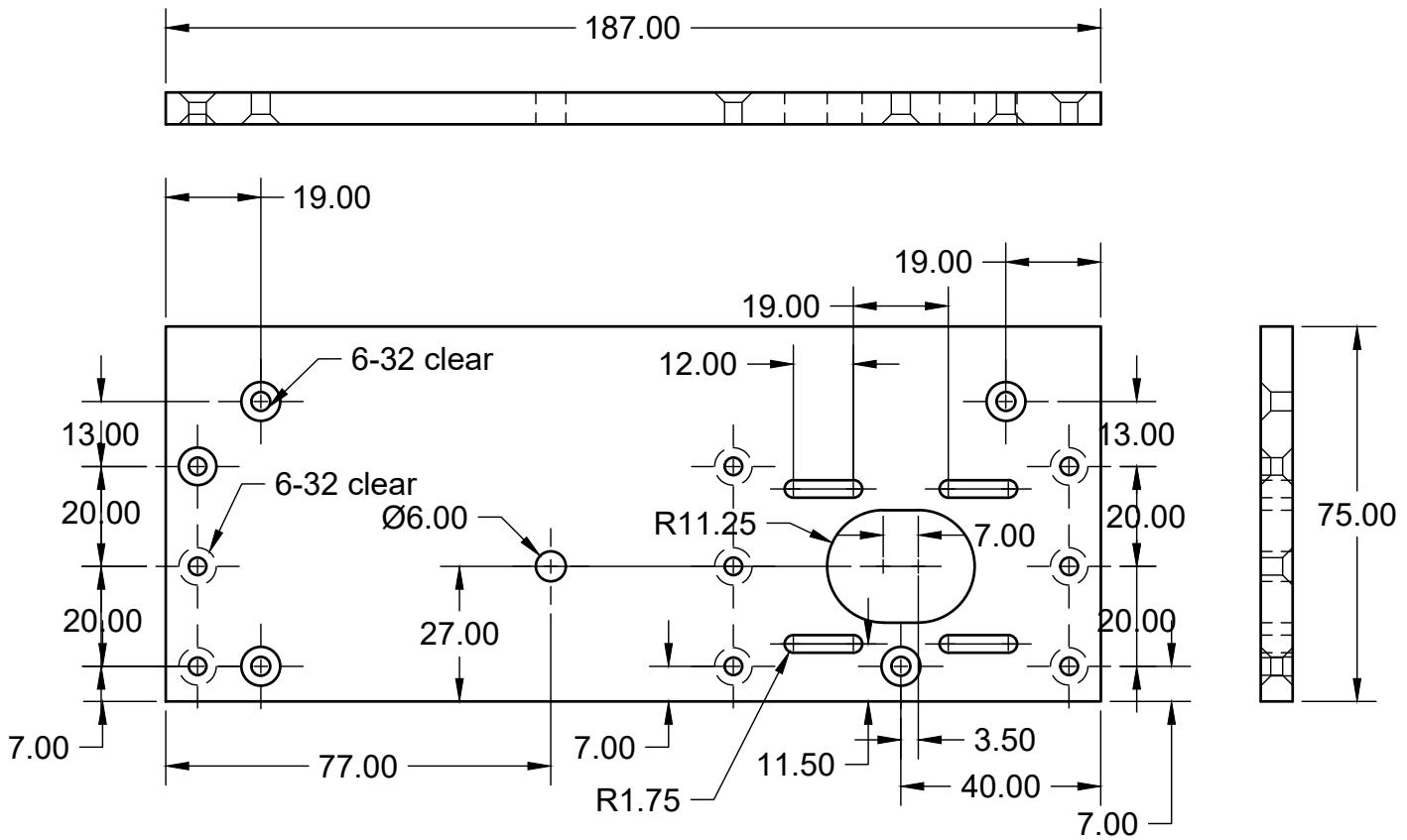
This document is distributed in the hope that it will be useful, but without any warranty and without even the implied warrant of merchantability or fitness for a particular purpose. Errors may be present in the drawings; however, the model will be largely consistent. It would be best to become familiar with the Fusion model and duly consider the effect of different stock used if different from the model.



Frame Assembly



This assembly is composed of a four main plates: right, elevator, left and base. The whole assembly is supported on feet in the front and rear. The extension of the rear foot is to balance the mass distribution of the scanner. Within this assembly the linear bearing is attached to the elevator plate. The lead screw turns on the base and moves a pillow block attached to the linear bearing in a vertical direction. This supports the slide platform (red) which moves the slides to the top of the scanner. A limit switch attached to the elevator plate defines the upper limit of motion of the lead screw. The drawings that follow will detail each of these parts. Refer to the Fusion model to gain a better understanding of the layout of each component.



PROJECT

slide scanner for web

TITLE

base plate

APPROVED

SIZE

CHECKED

A

DRAWN Donald Plewes 5/16/2021

CODE

DWG NO

REV

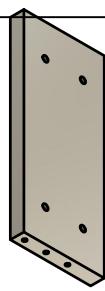
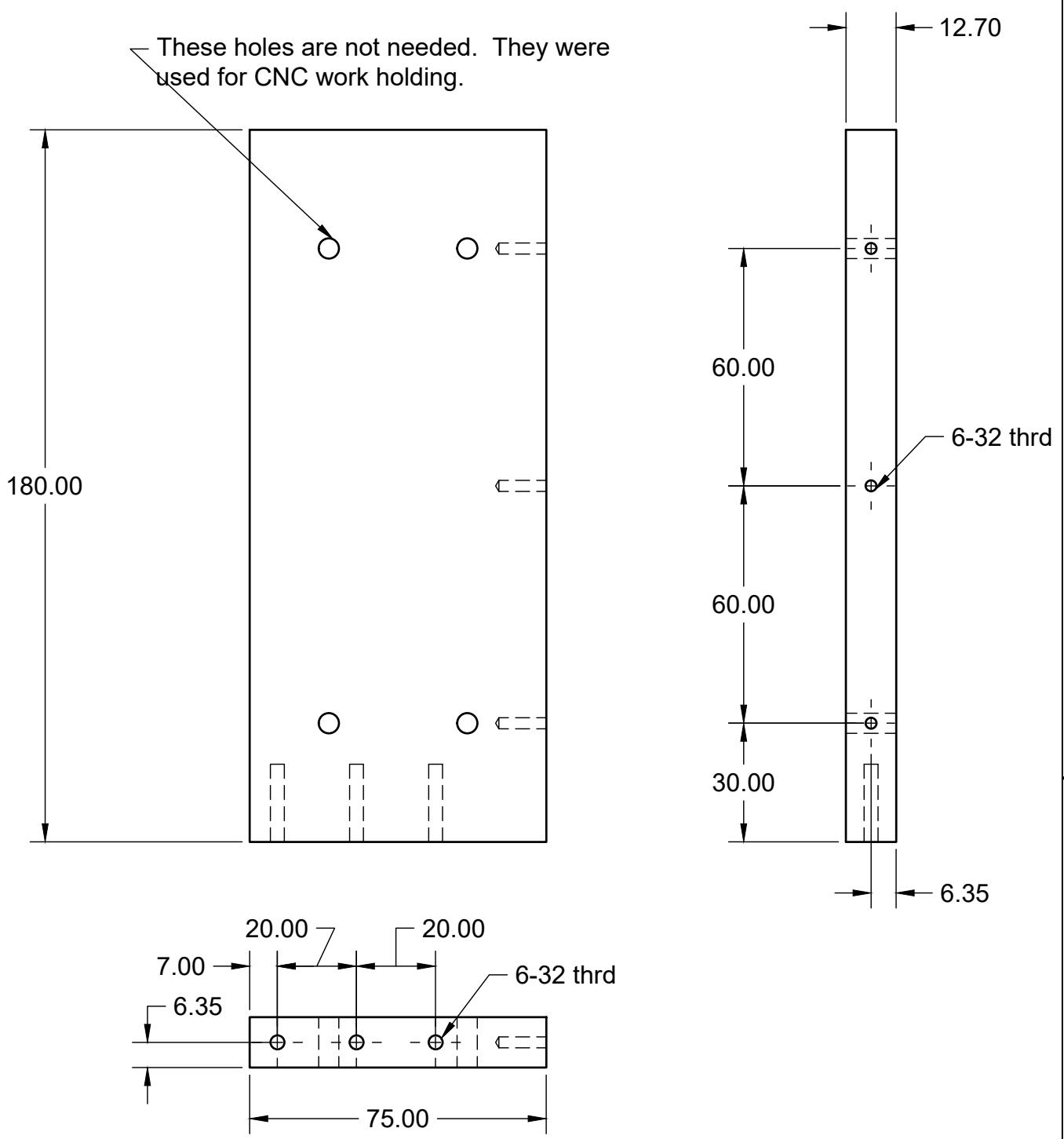
DRAV

Donald Plewes 5/16/2021

SCALE 1:1.5

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Assembly of whole scanner
Right End Plate**

1/2" Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

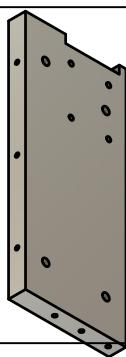
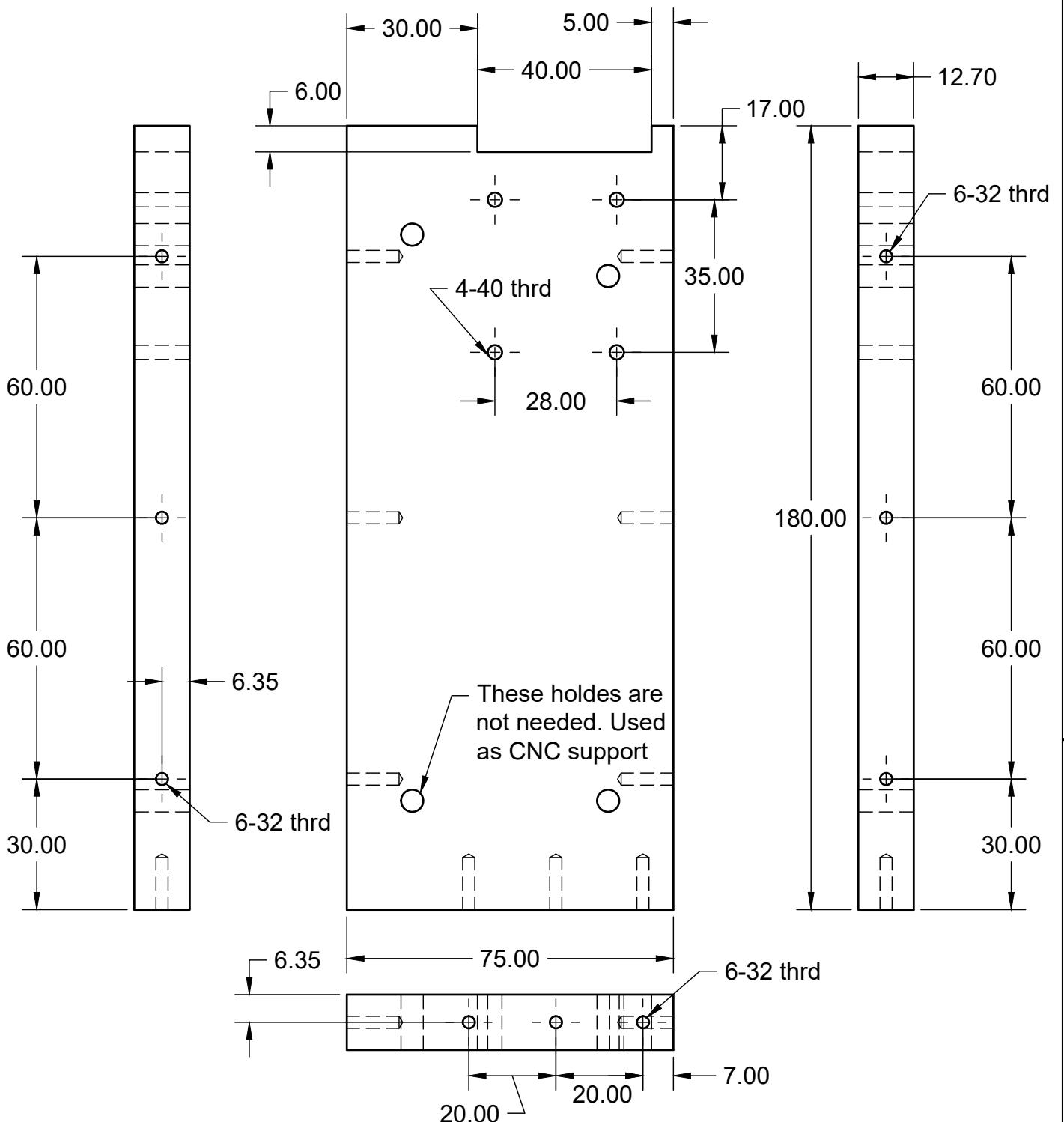
A

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SCALE 1:1.5

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

Assembly of whole scanner Left Side Plate

1/2" Delrin plate

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

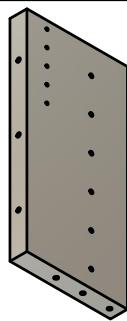
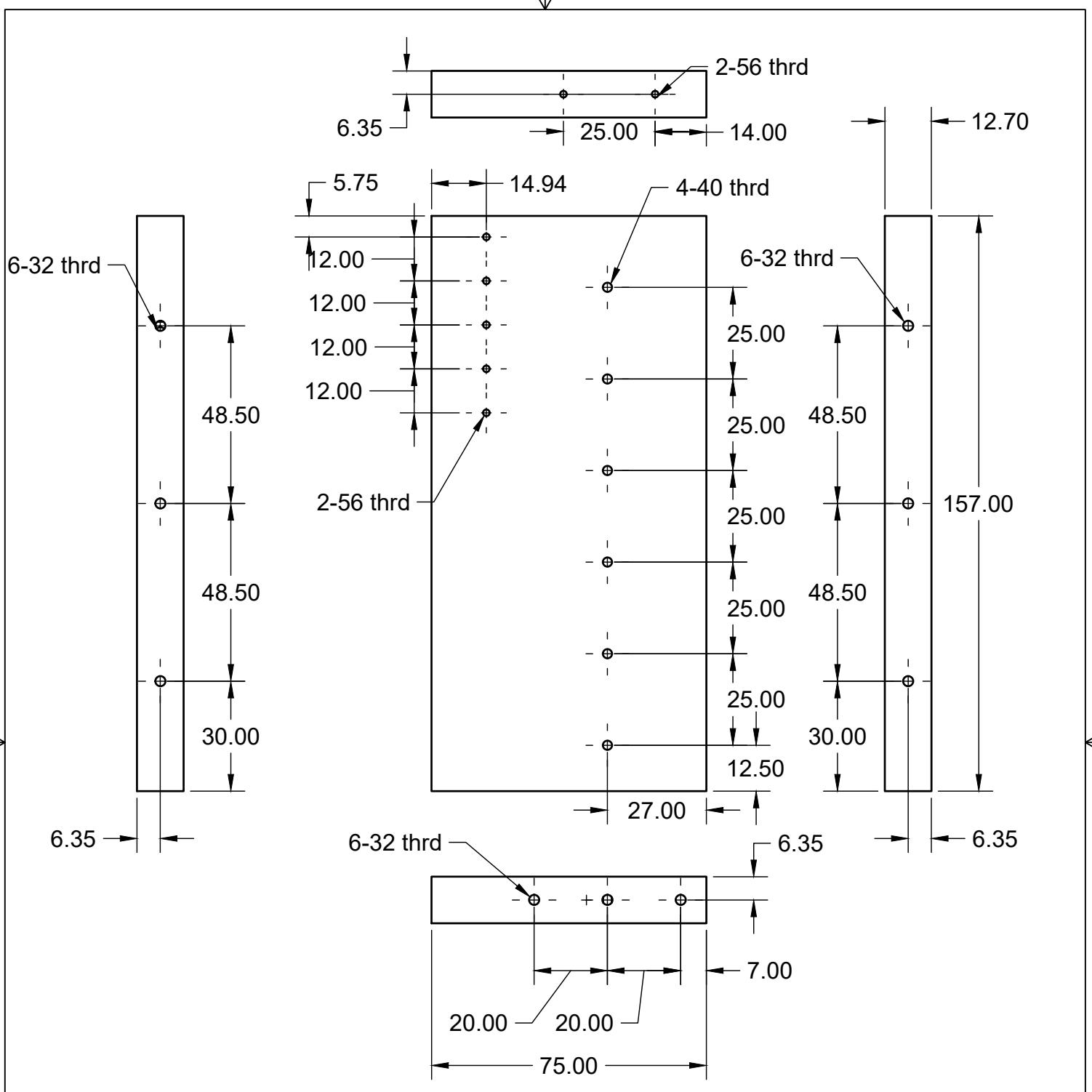
A

DRAWN Donald Plewes 5/14/2021

SCALE 1:1.7

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Elevator plate for linear bearing
1/2" Delrin**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

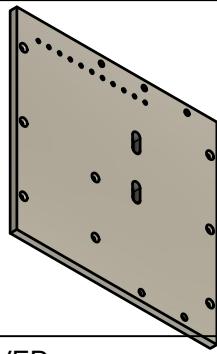
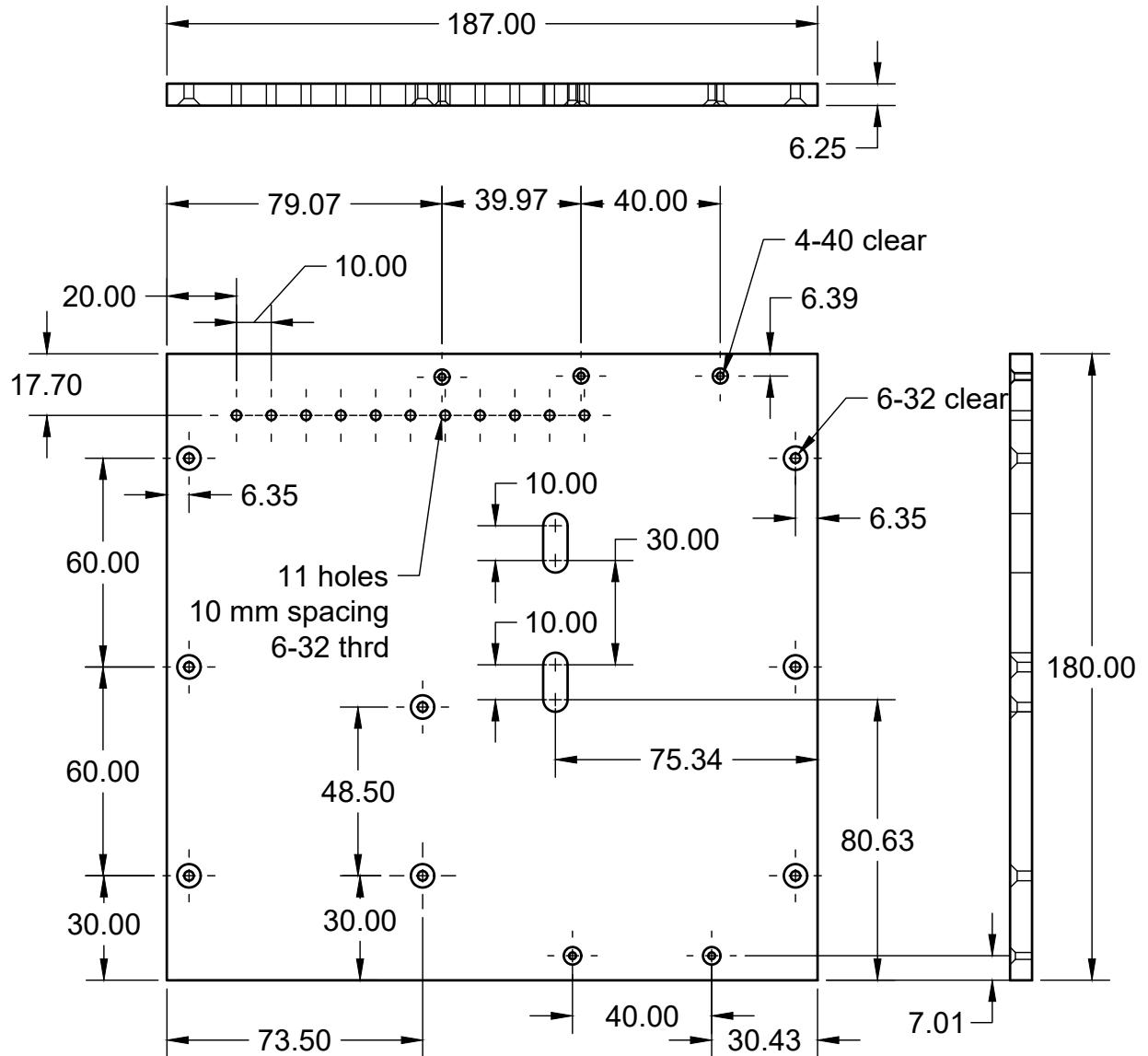
A

DRAWN Donald Plewes 5/14/2021

SCALE 1:1.5

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Back Plate
1/4" (Acrylic, Delrin, etc)**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

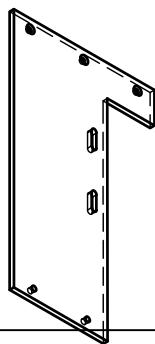
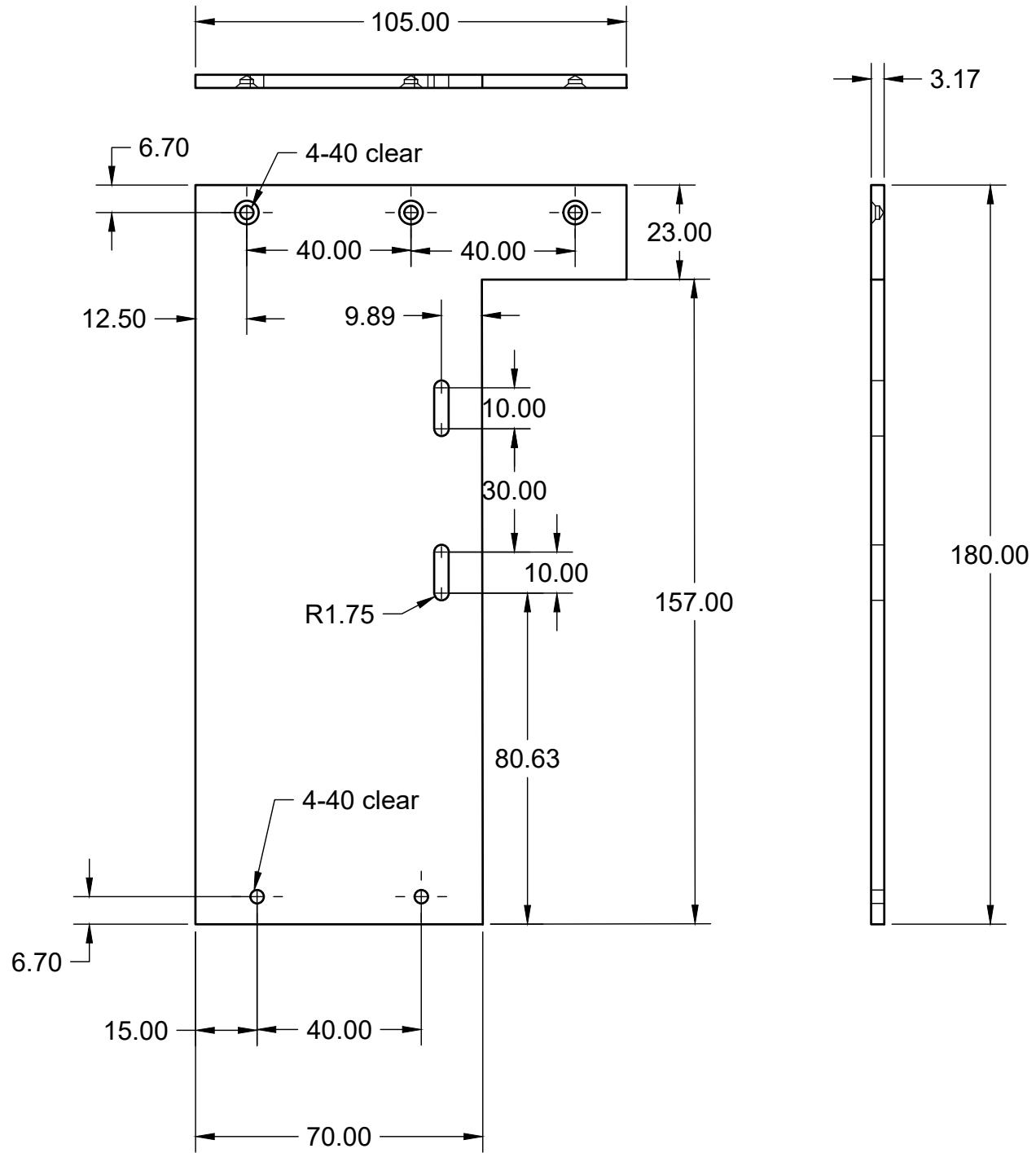
A

DRAWN Donald Plewes 5/21/2021

SCALE 1:2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Inner back plate
1/8" acrylic or Delrin**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

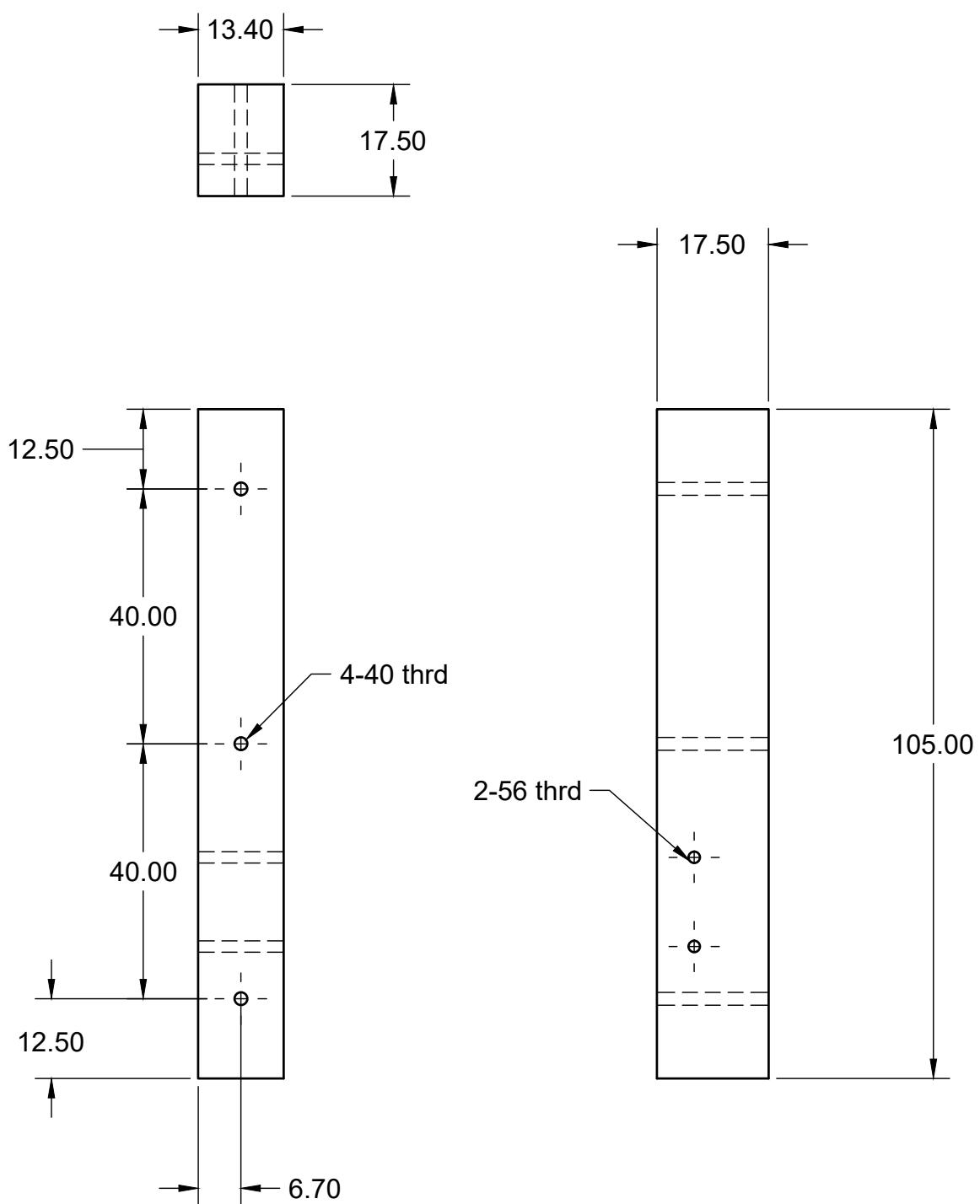
A

DRAWN Donald Plewes 5/21/2021

SCALE 1:1.5

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Inner Back Plate
Upper support**

Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

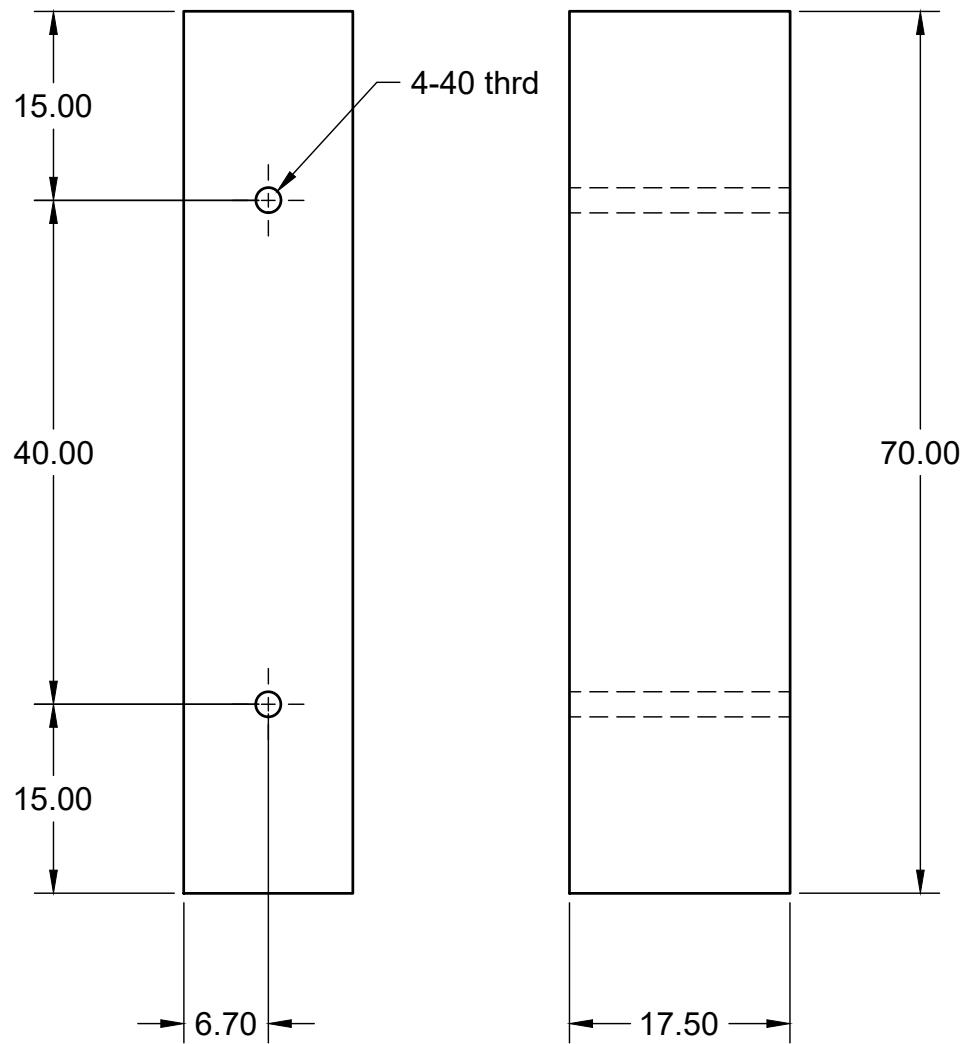
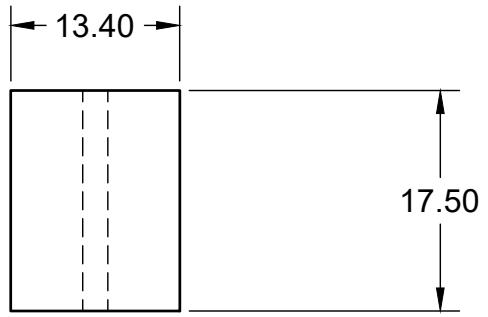
A

DRAWN Donald Plewes 5/21/2021

SCALE 1:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Inner back plate
lower support**

Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

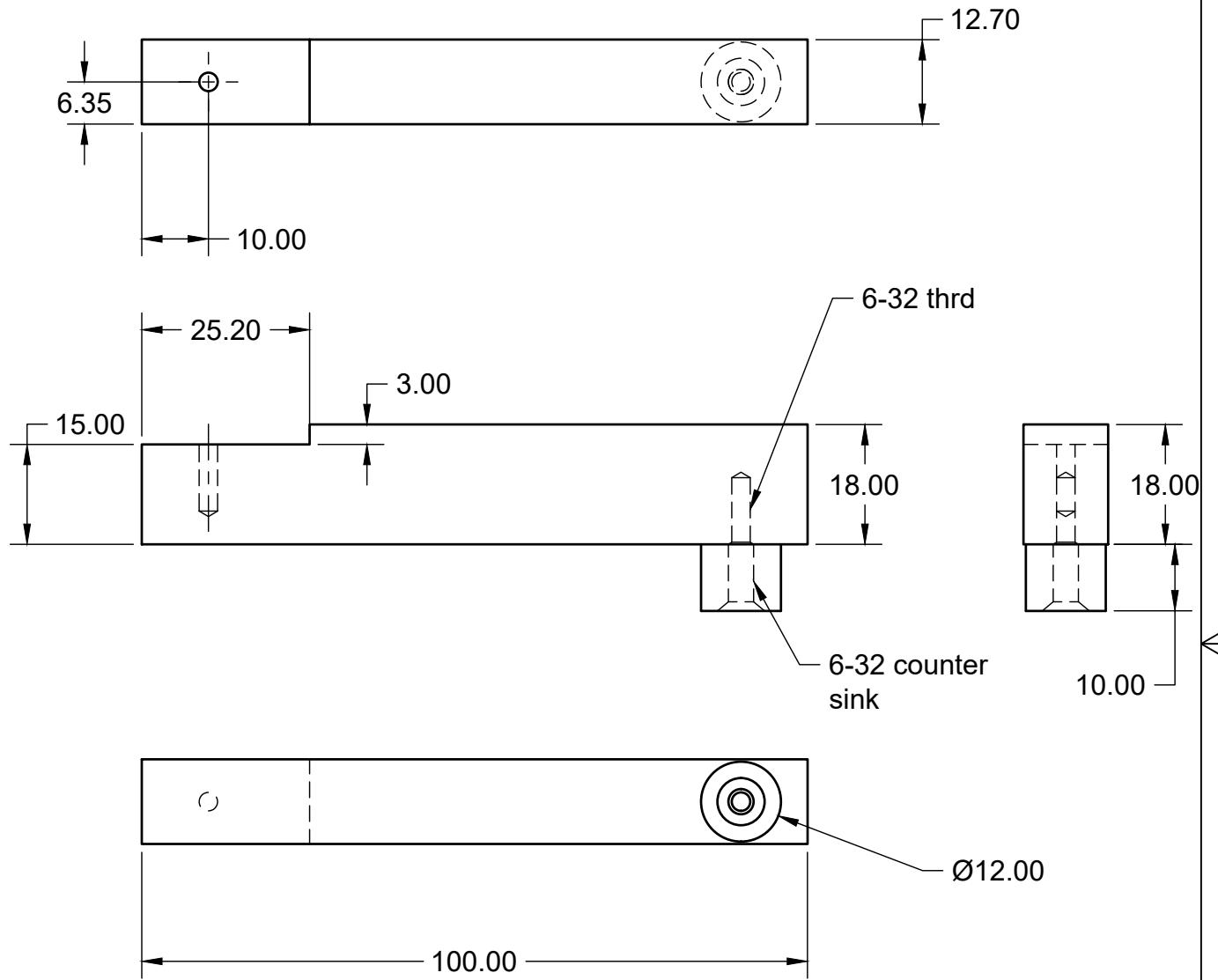
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DRAWN Donald Plewes 5/21/2021

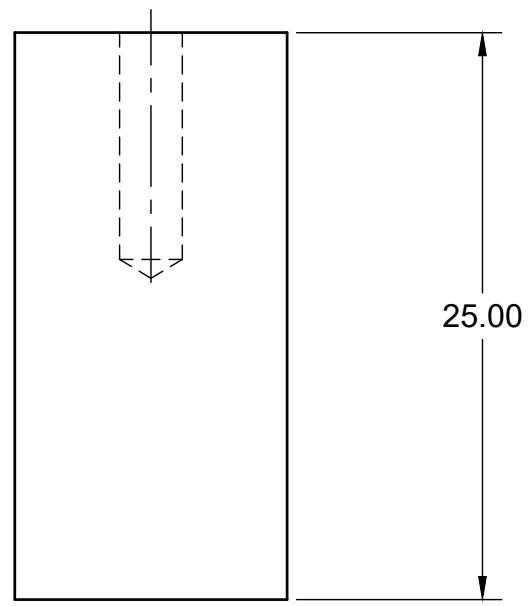
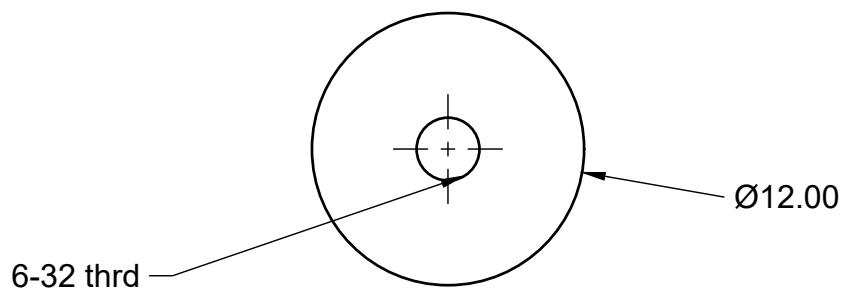
SCALE 1:6

WEIGHT

SHEET 1/1



	PROJECT			
	slide scanner for web			
TITLE	Rear Foot of Scanner Delrin and Aluminum			
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			
DRAWN Donald Plewes 5/17/2021	SCALE 1:1	WEIGHT	SHEET 1/1	



PROJECT

slide scanner for web

TITLE

**Front foot
aluminum**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

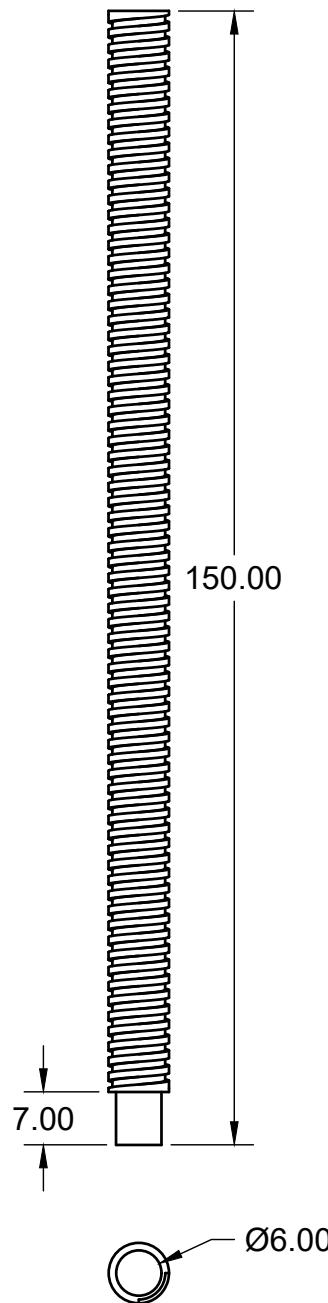
A

DRAWN Donald Plewes 5/17/2021

SCALE 3

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

8mm dia, 2mm pitch lead screw



APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

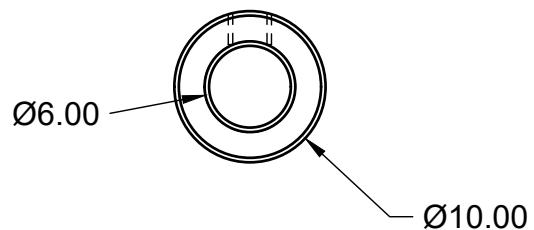
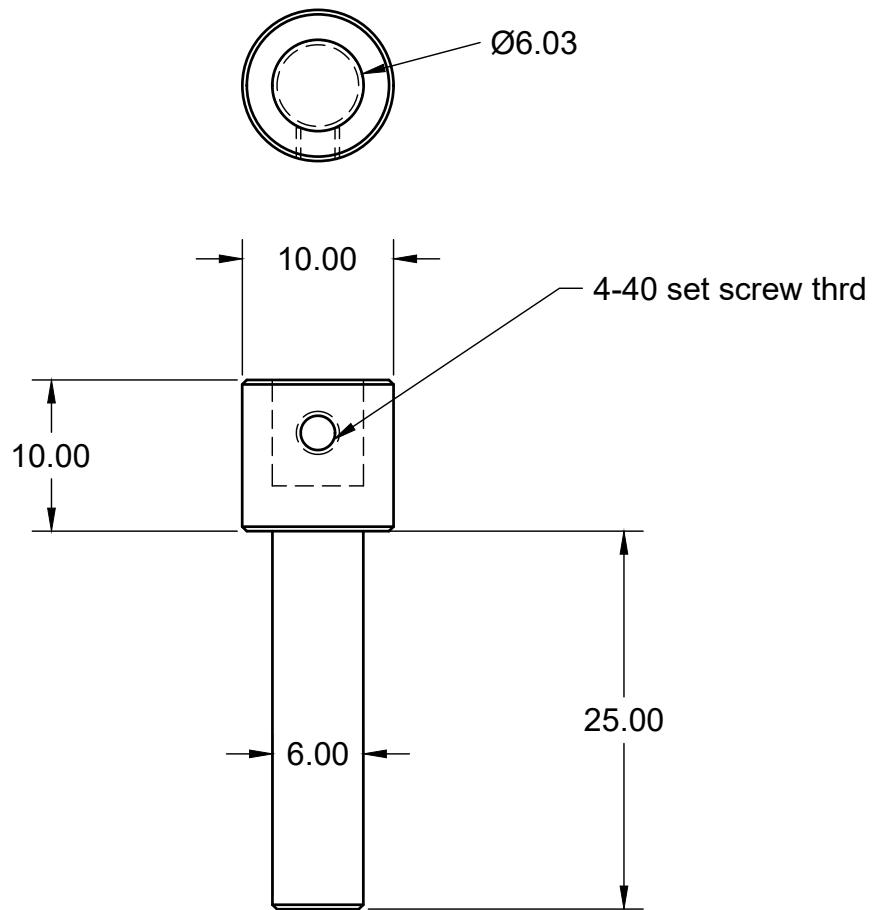
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DRAWN Donald Plewes 5/21/2021

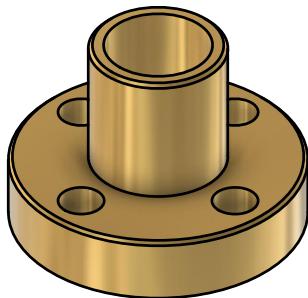
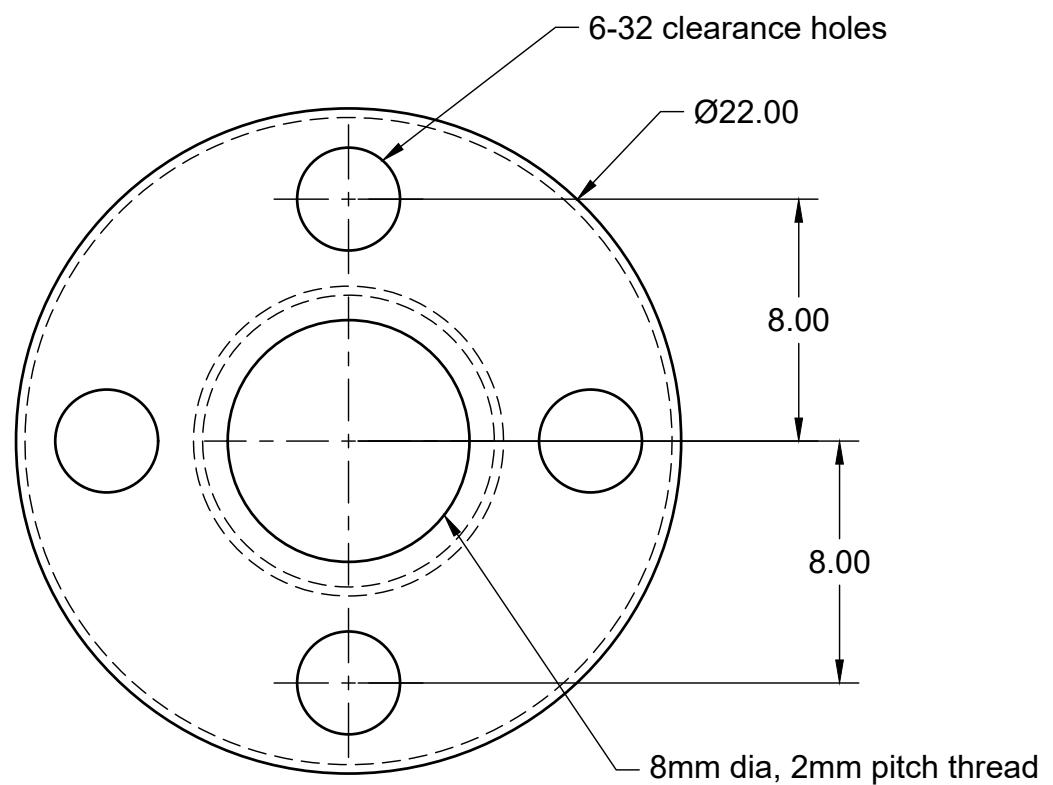
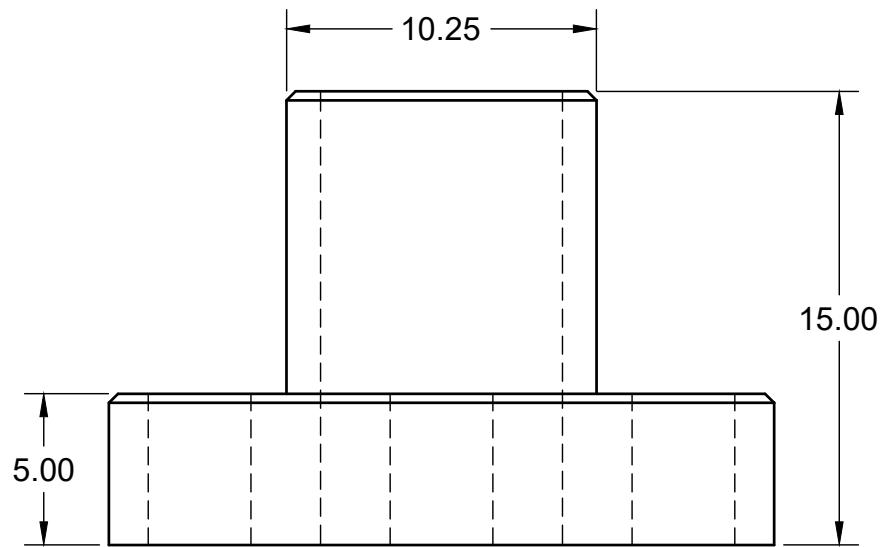
SCALE 1:2.

WEIGHT

SHEET 1/1



	PROJECT	slide scanner for web		
	TITLE	lead screw coupler to fit lead screw end		steel
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			
DRAWN Donald Plewes 5/15/2021	SCALE 2:1	WEIGHT	SHEET 1/1	



PROJECT

slide scanner for web

TITLE

**nut for lead screw
this part needs no modifications**

Brass

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

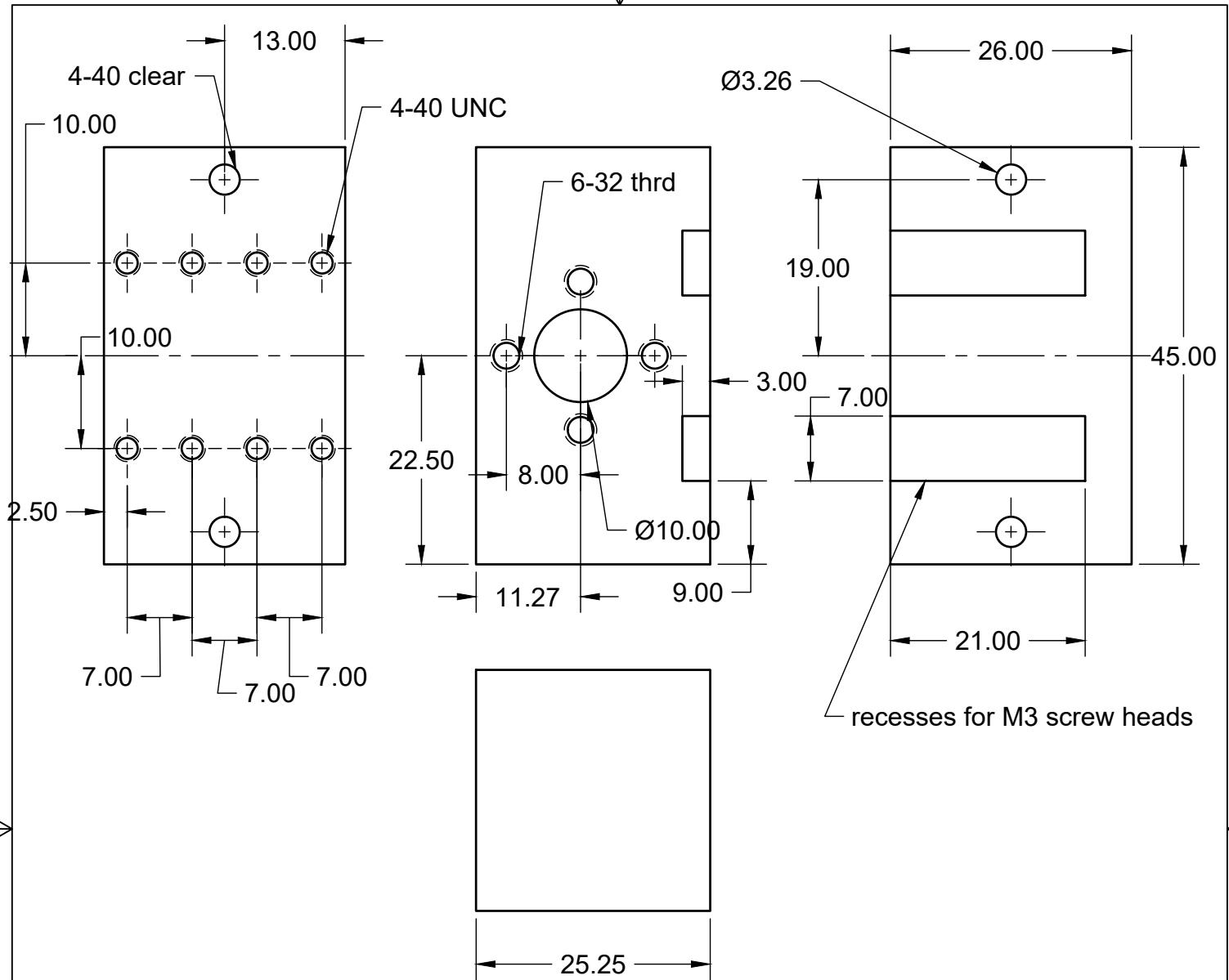
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DRAWN Donald Plewes 5/11/2021

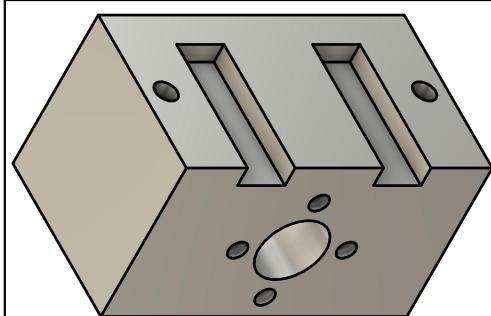
SCALE 4

WEIGHT

SHEET 1/1



This part has two recesses in the surface in contact with the pillow block connector plate. This is to provide a vacancy for the heads of two M3 screws which hold the pillow block connector plate to the lead screw glide. An alternative design would be to use longer M3 screws to connect the pillow block to the linear bearing guide without the connector plate. This would simplify the design. In this case, the depth of the pillow block will need to be adjusted for the missing connector plate.



PROJECT

slide scanner for web

TITLE

pillow block

Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

A

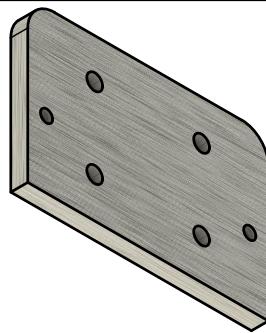
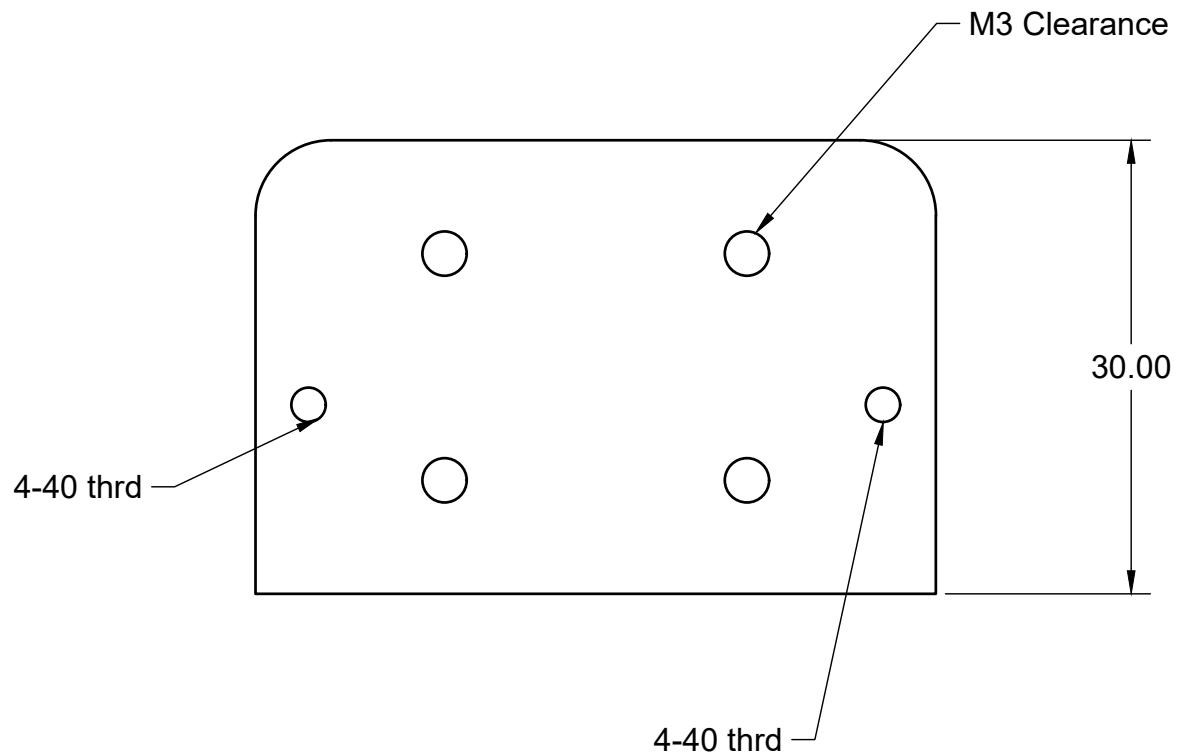
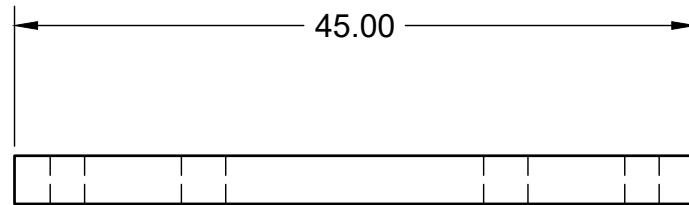
DRAWN Donald Plewes 5/14/2021

SCALE

1.5:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**150 slide rail
Pillow block connector plate**

1/8" Aluminum

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

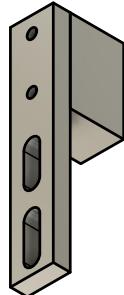
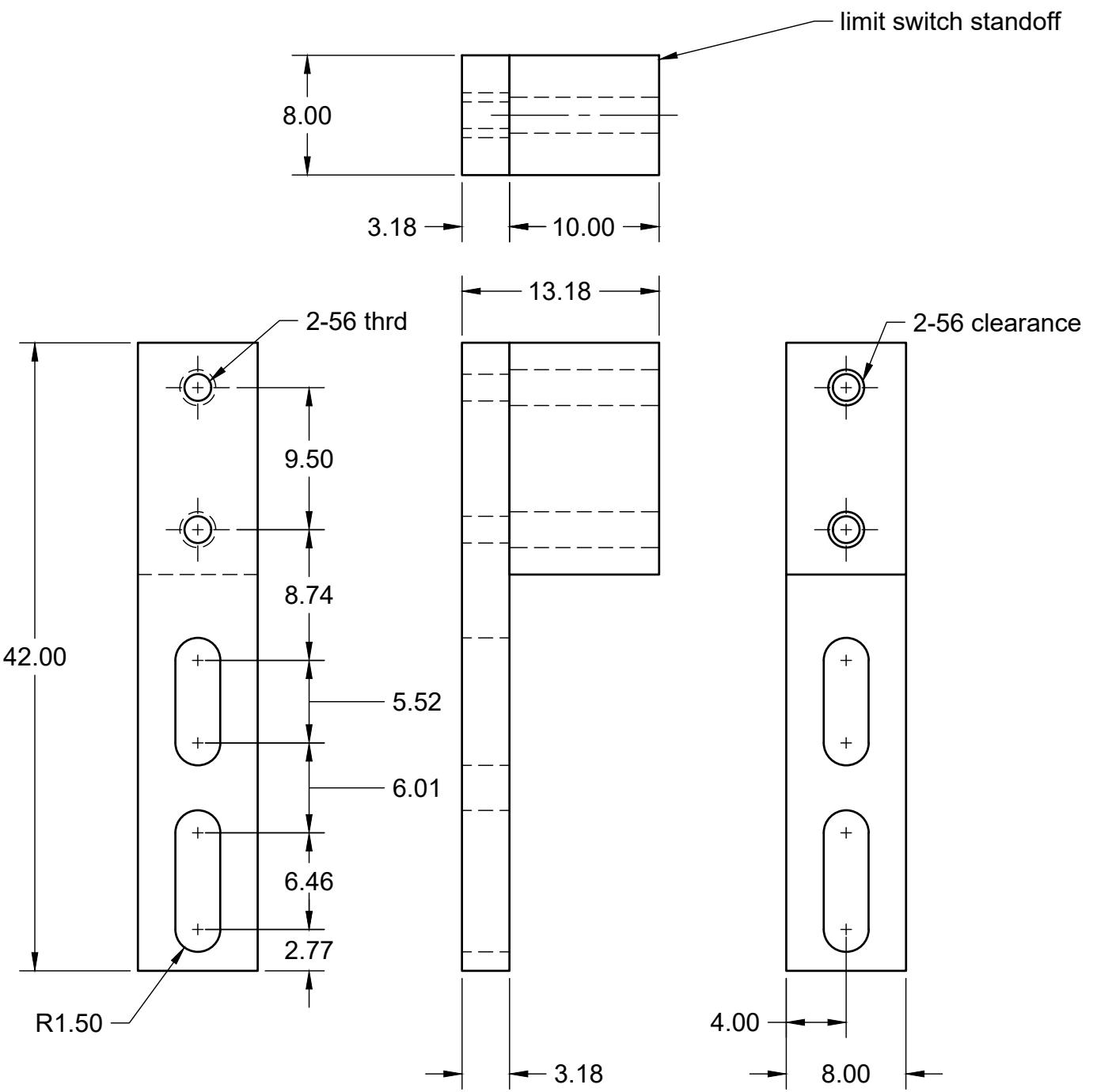
A

DRAWN Donald Plewes 5/16/2021

SCALE 2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**elevator limit switch
1/8" aluminum and Delrin**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

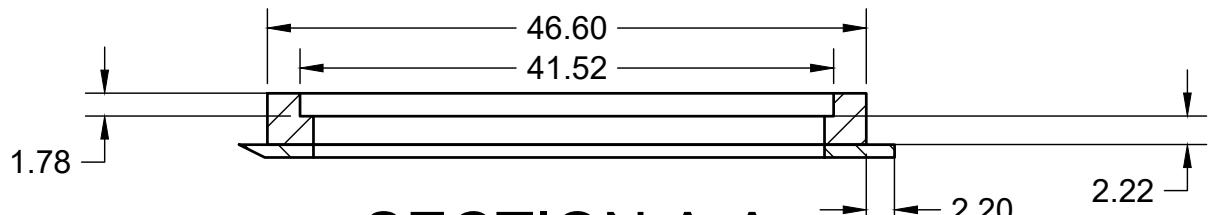
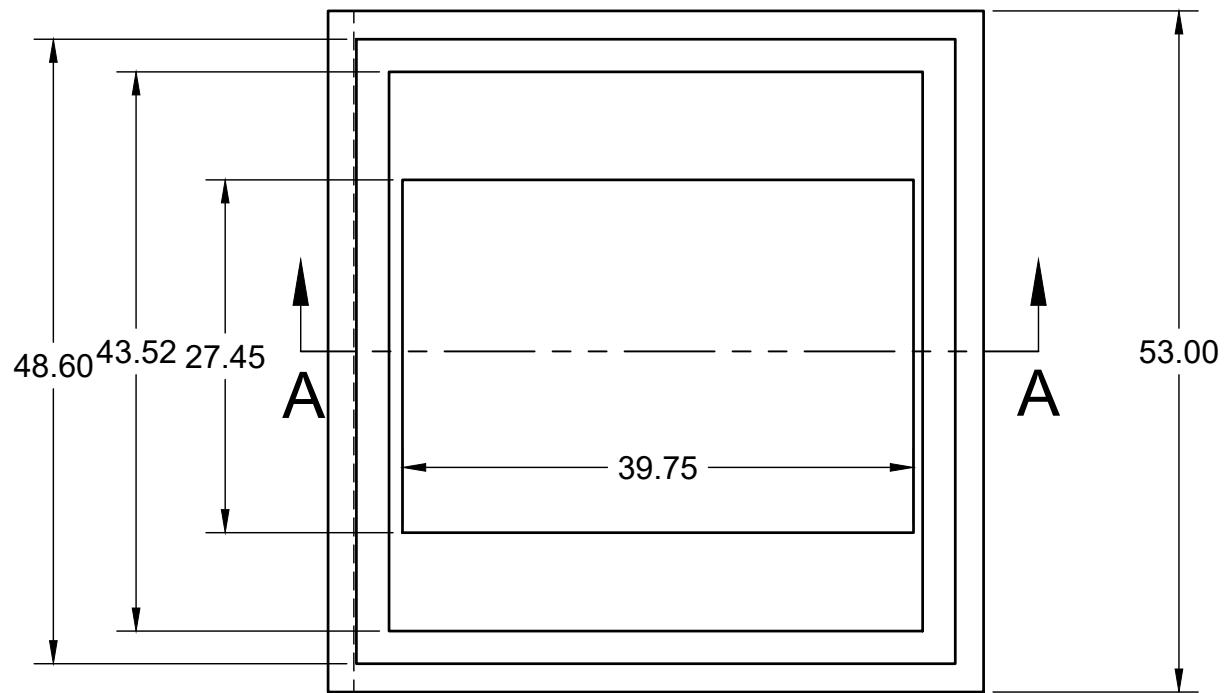
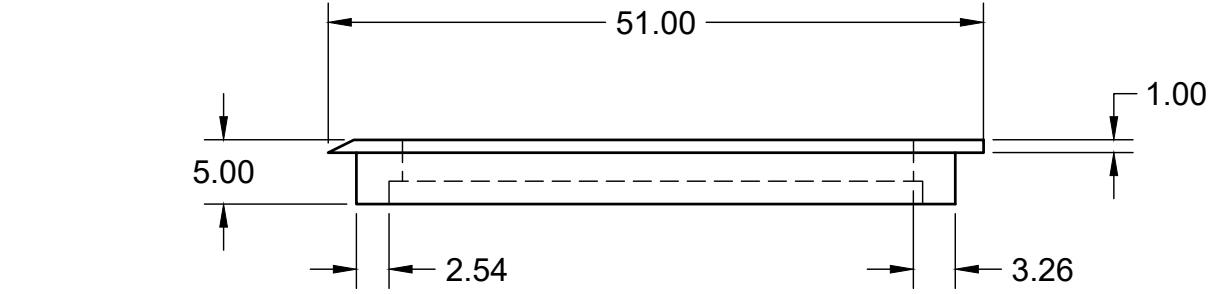
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DRAWN Donald Plewes 5/17/2021

SCALE 2.5:1

WEIGHT

SHEET 1/1



SECTION A-A



PROJECT

slide scanner for web

TITLE

**light box lid
3D printed from black PLA**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

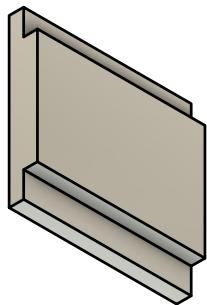
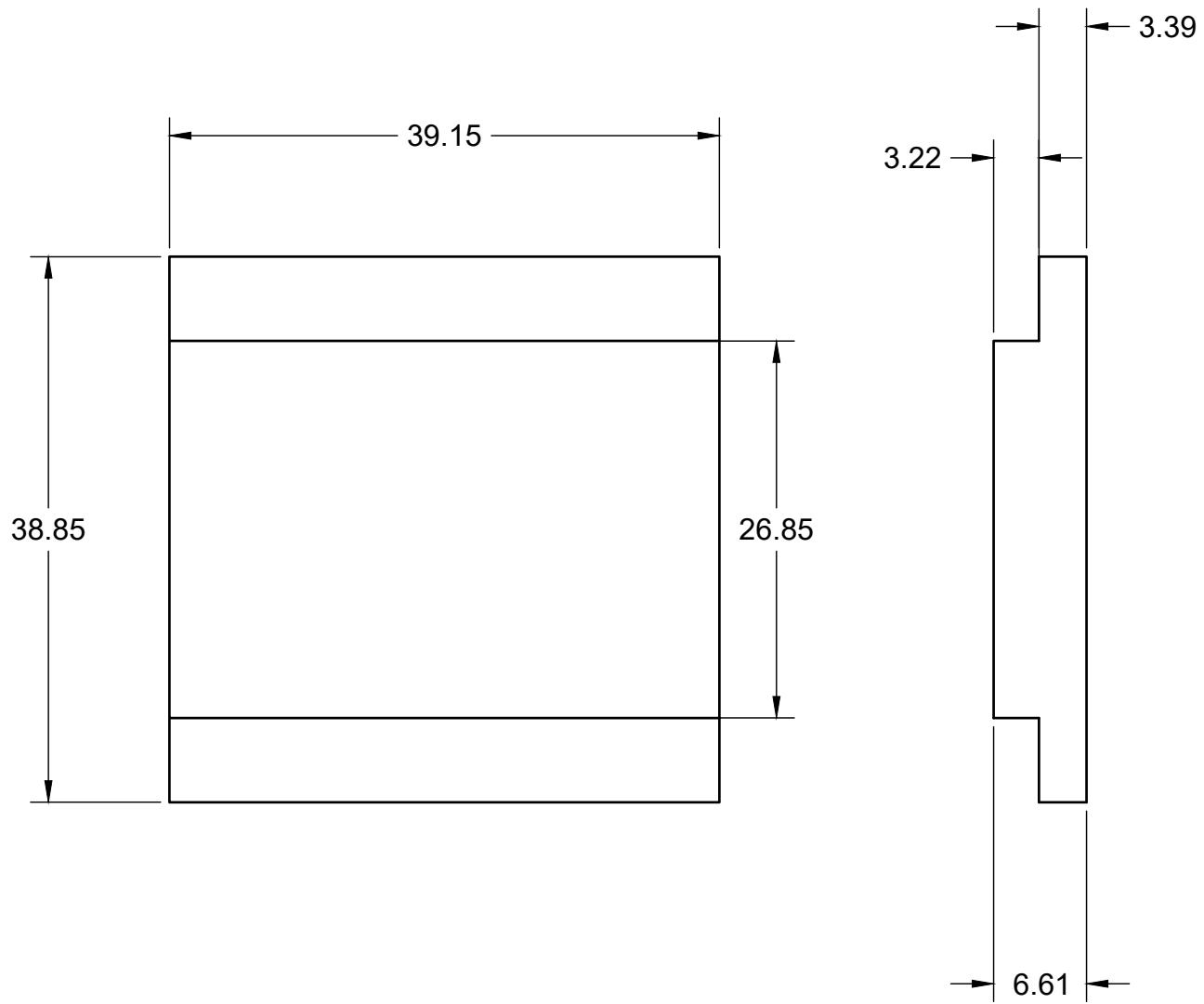
A

DRAWN Donald Plewes 5/17/2021

SCALE 2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**light box diffuser screen
Whilte Delrin**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

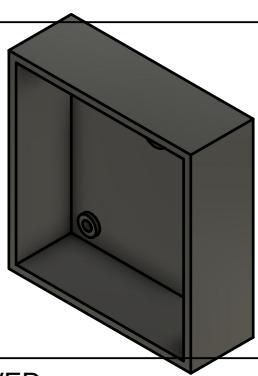
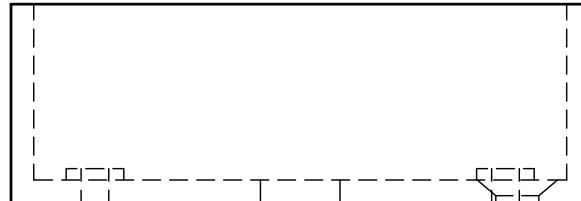
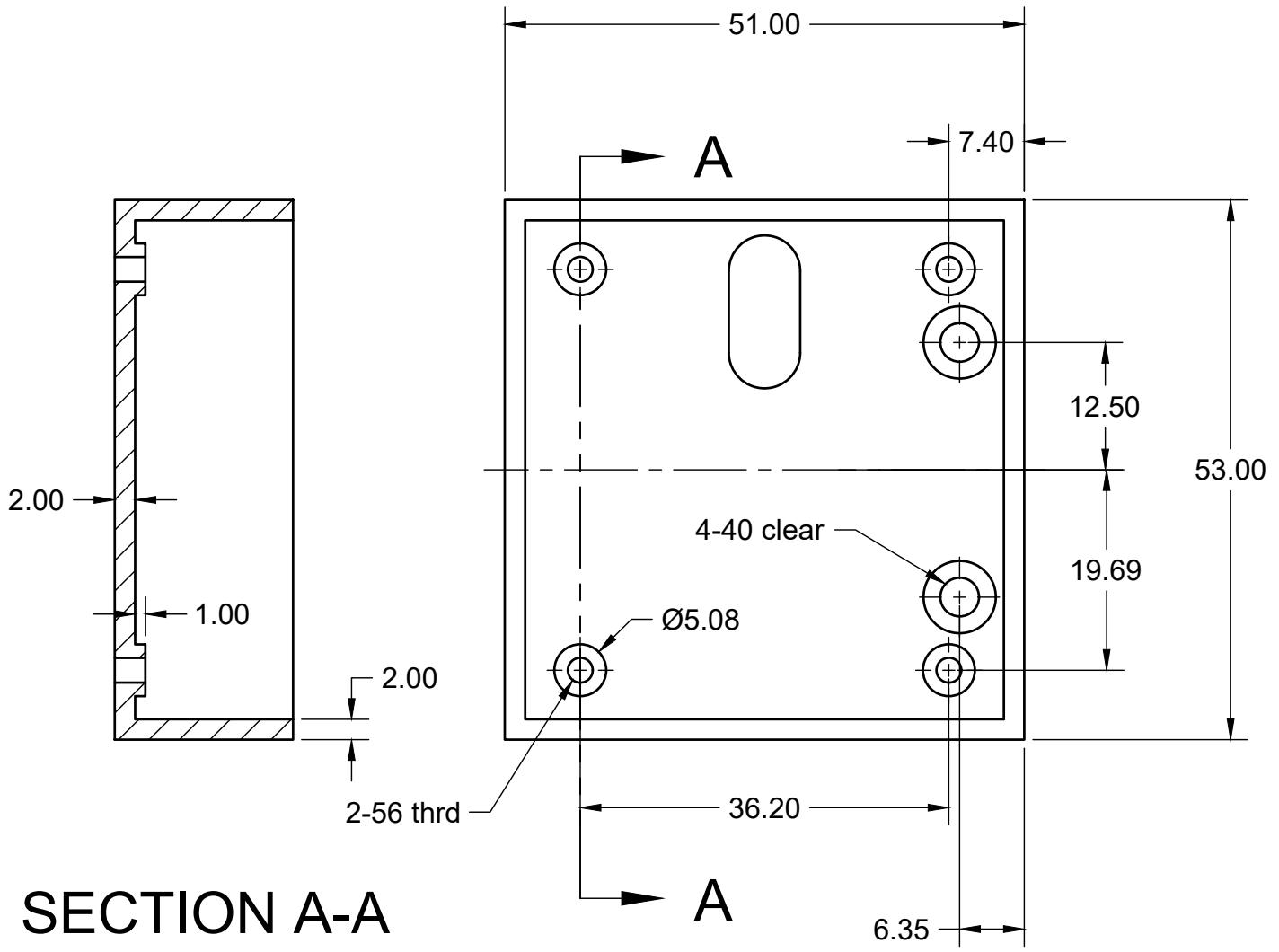
A

DRAWN Donald Plewes 5/17/2021

SCALE 2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**light box
light box base**

3D Printed in Black PLA

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

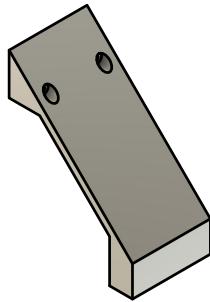
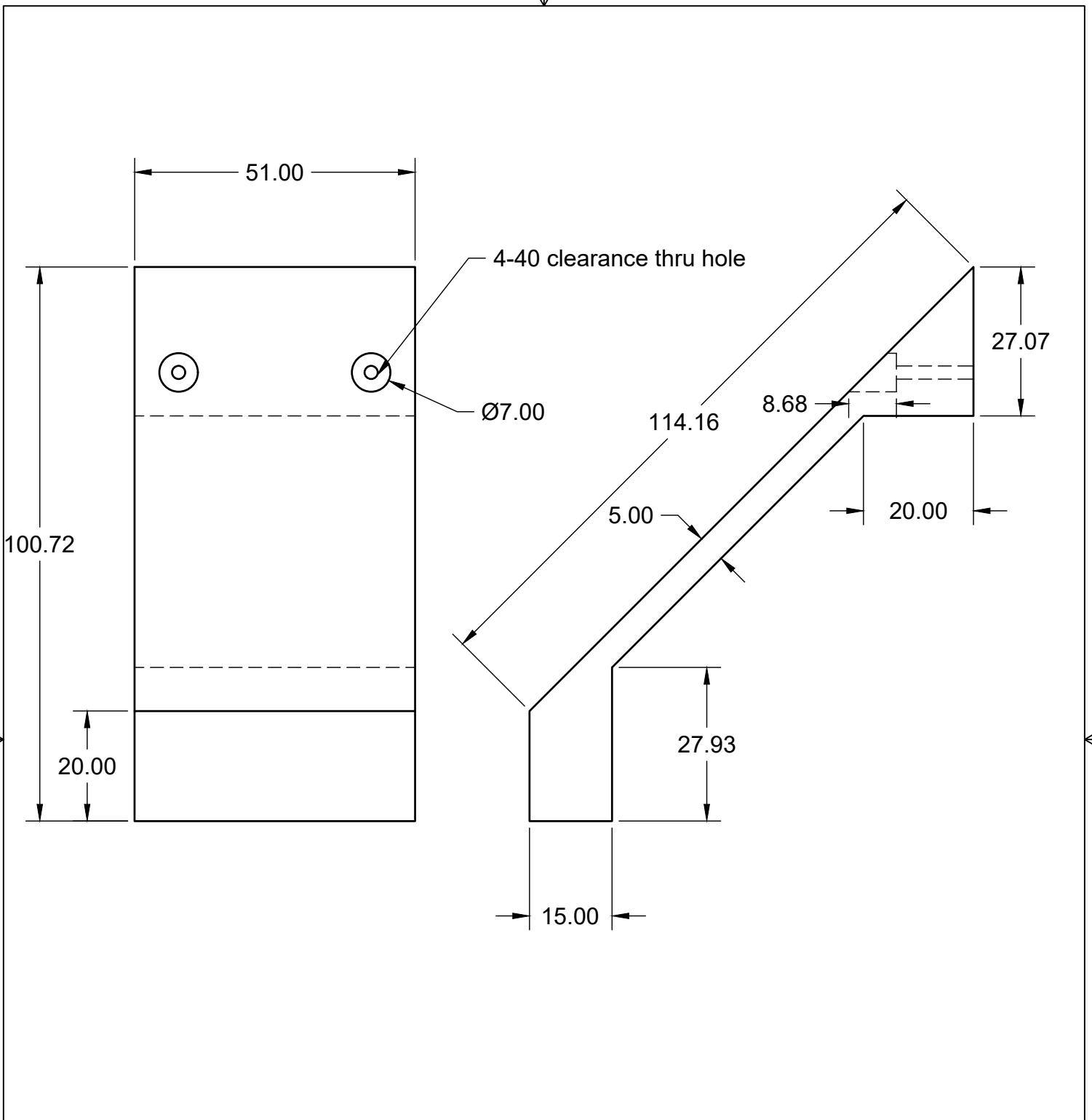
A

DRAWN Donald Plewes 5/17/2021

SCALE 1:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

ramp

Slide ramp - 3D printed

Material PLA

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

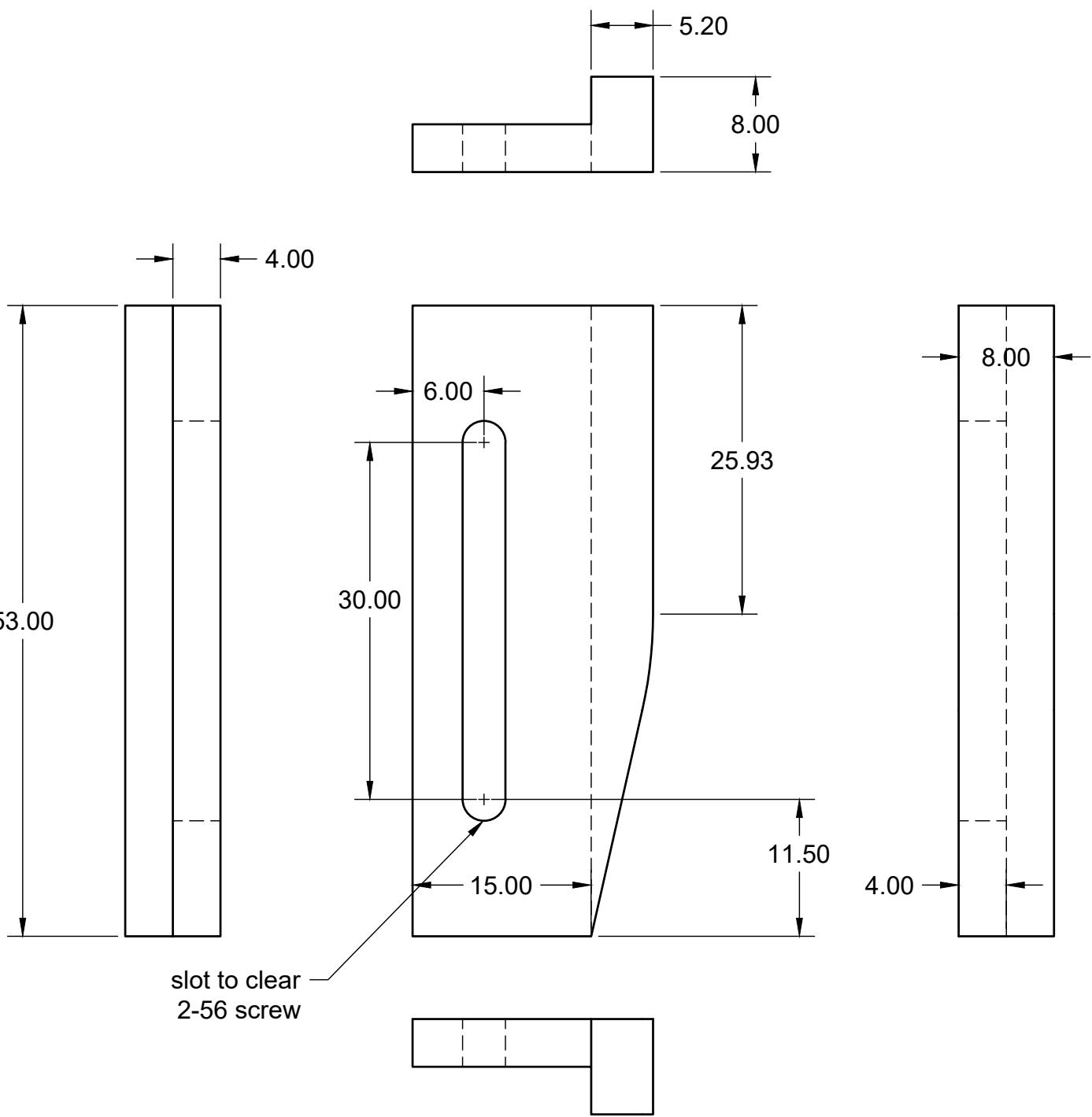
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DRAWN Donald Plewes 5/14/2021

SCALE 1:1

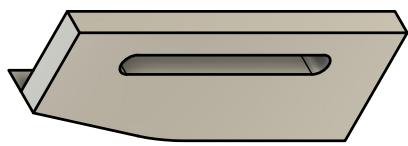
WEIGHT

SHEET 1/1



PROJECT

slide scanner for web



TITLE

**slide aligner
machined from Delrin**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

A

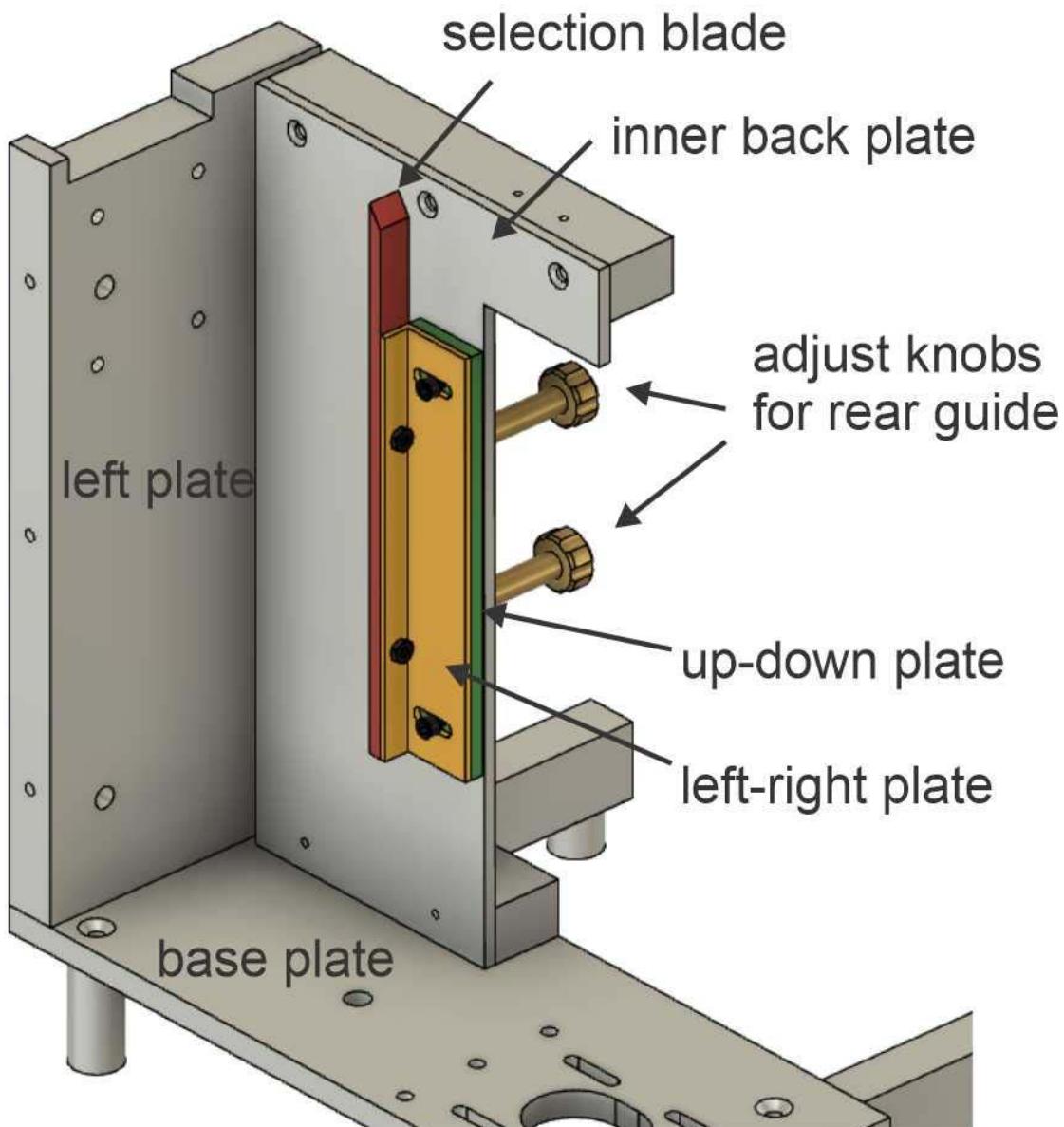
DRAWN Donald Plewes 5/16/2021

SCALE 2

WEIGHT

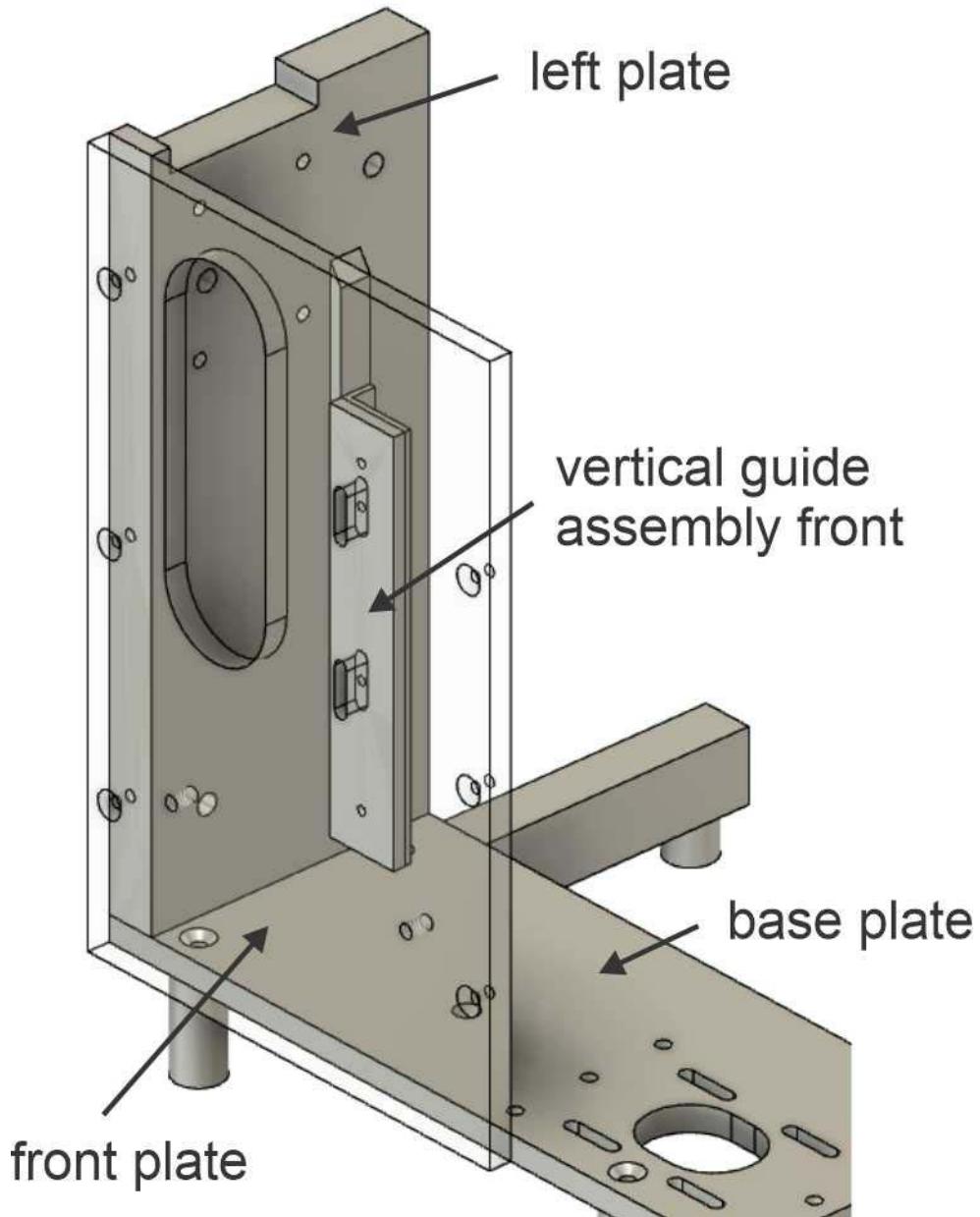
SHEET 1/1

Rear Guide

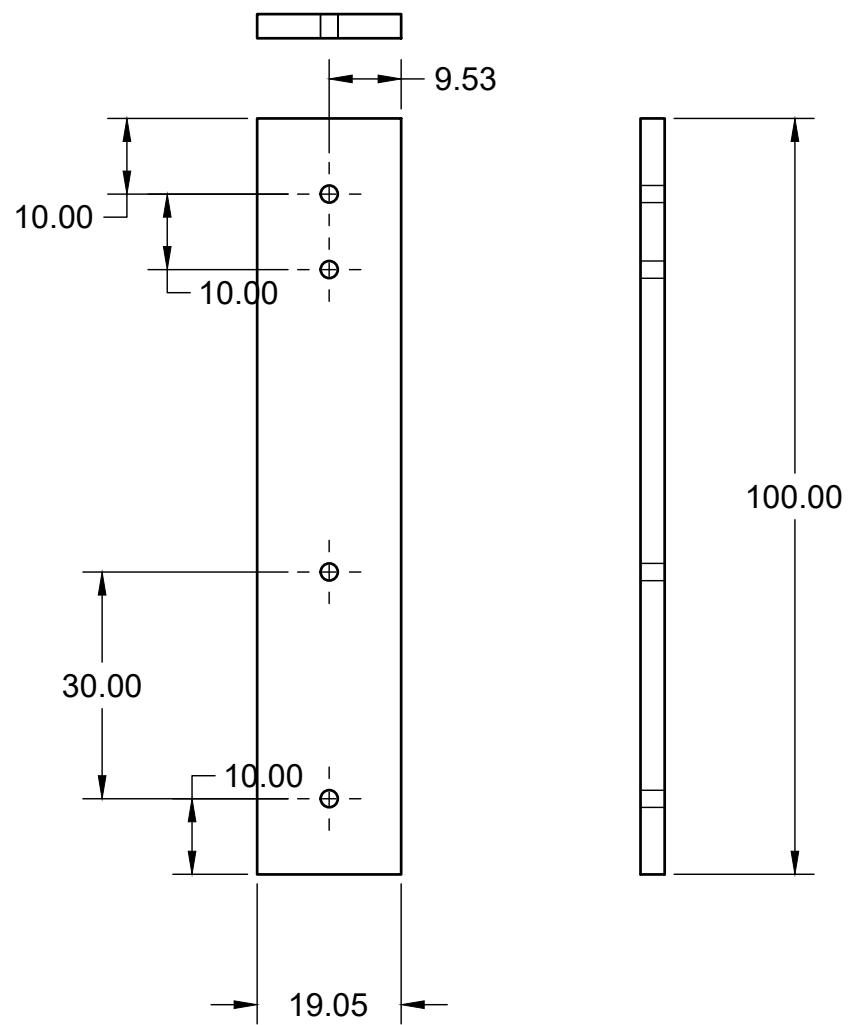


Within the frame are two components with align the slides in the “front-back” directions. This is achieved with the “rear guide”(shown here) and “front guide” as seen below.

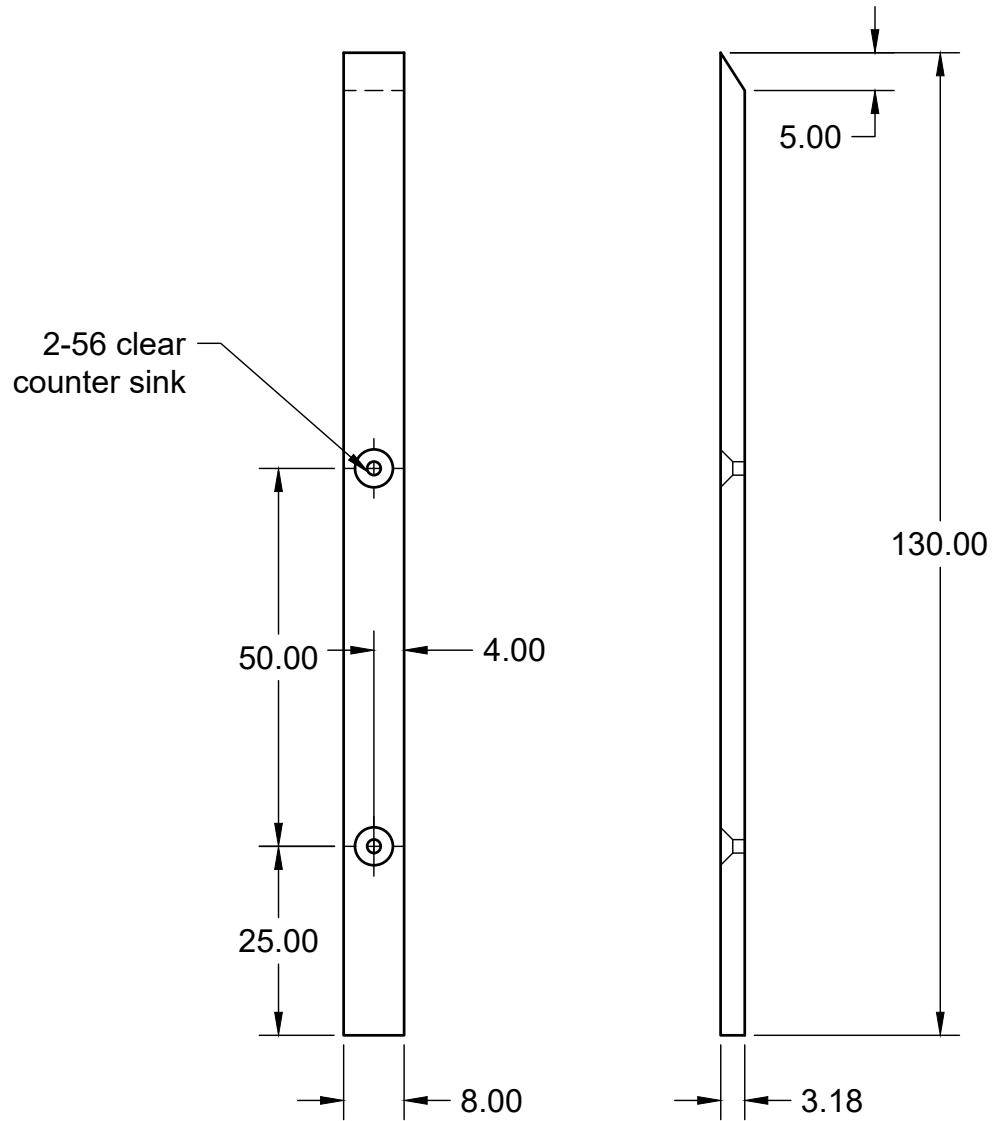
Front Guide



The drawings which follow details the layout of the components for the read and front guides. The front guide is just a mirror of the rear guide.



	PROJECT	slide scanner for web		
	TITLE	Vertical Guide for Slides up-down slide plate		
		1/8" aluminum		
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			
DRAWN Donald Plewes 5/15/2021	SCALE 1:1	WEIGHT	SHEET 1/1	

**PROJECT****slide scanner for web****TITLE****Vertical Guide for Slide Selection Blade**

1/8" aluminum

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

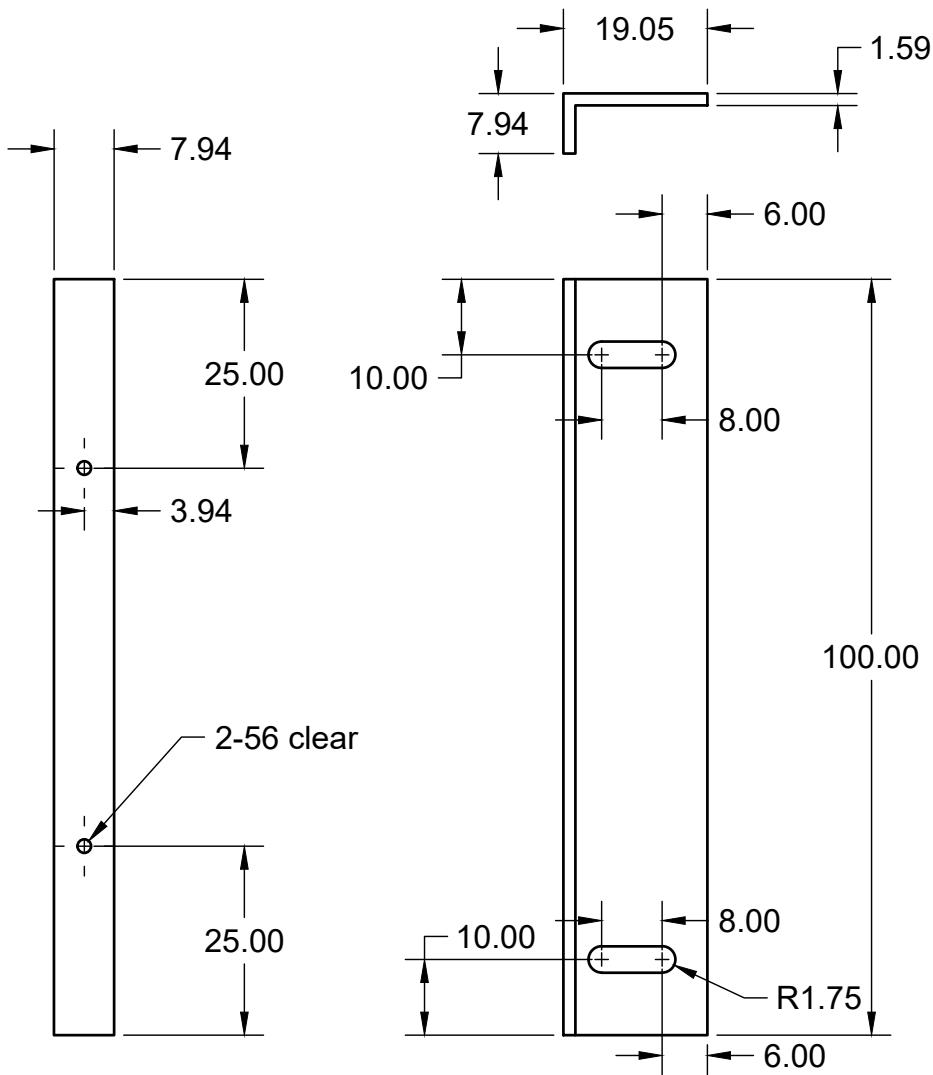
A

DRAWN Donald Plewes 5/15/2021

SCALE 1:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Vertical Guide for slides
left-right plate**

aluminum angle channel

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

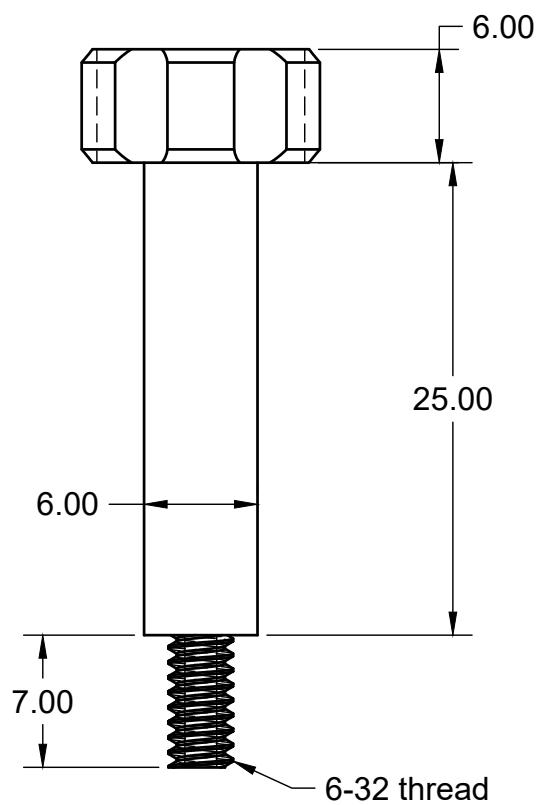
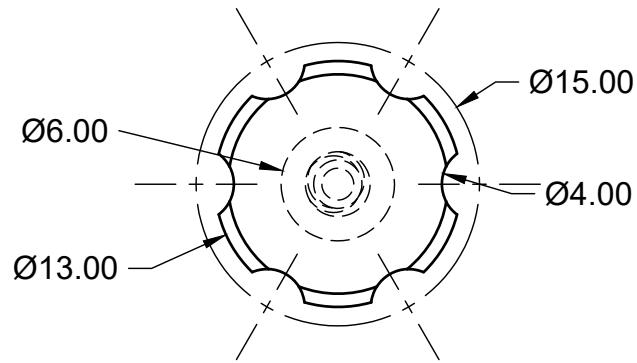
A

DRAWN Donald Plewes 5/15/2021

SCALE 1:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

adjuster knob for rear guide

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

A

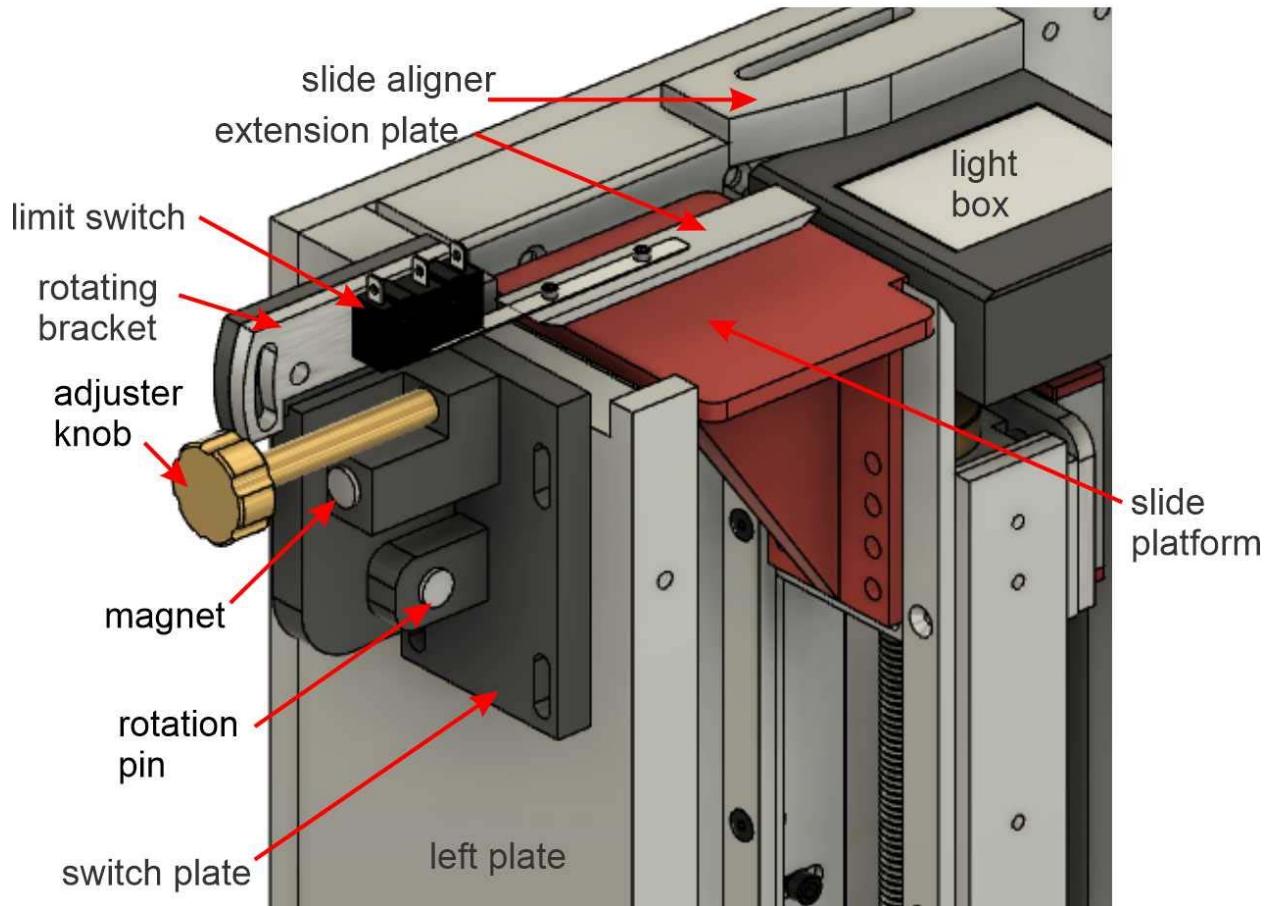
DRAWN Donald Plewes 5/17/2021

SCALE 2.5

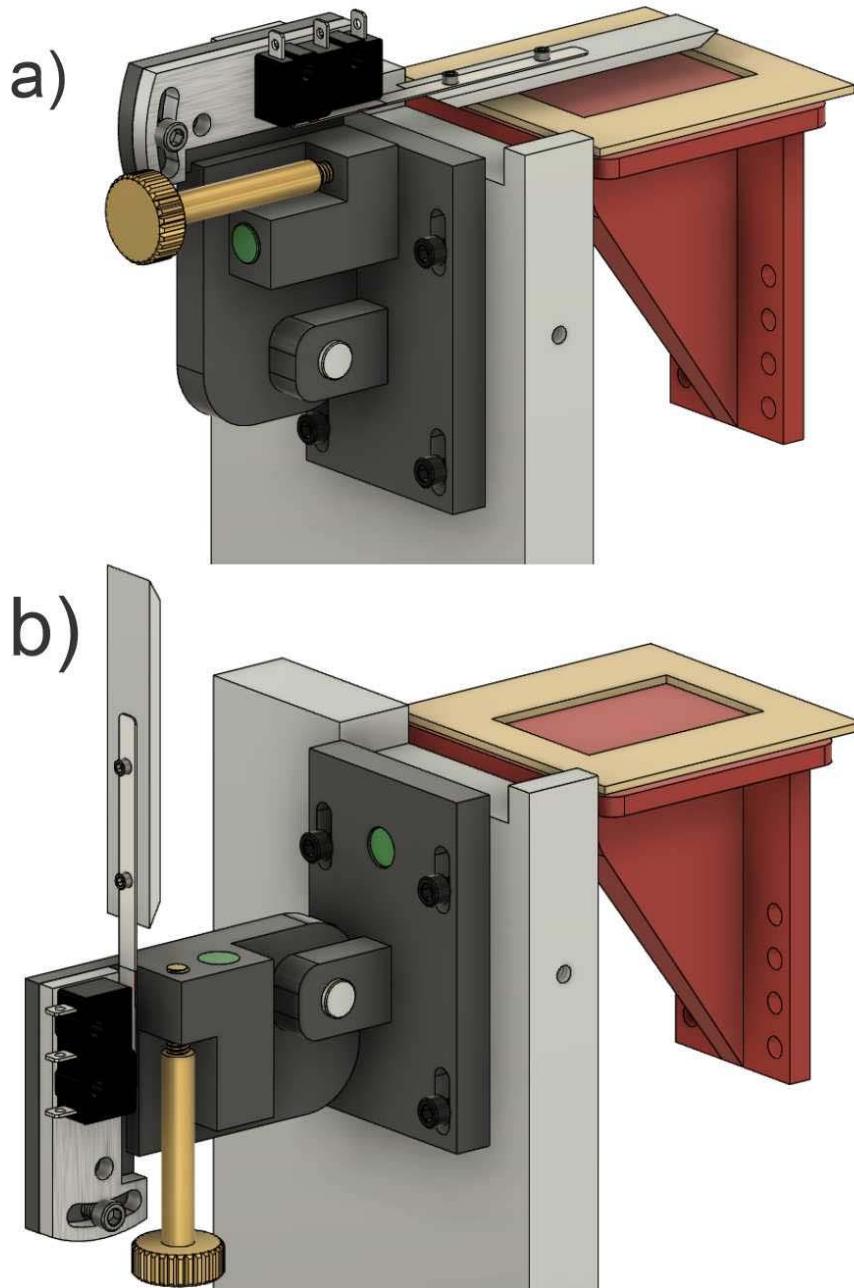
WEIGHT

SHEET 1/1

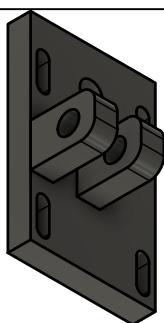
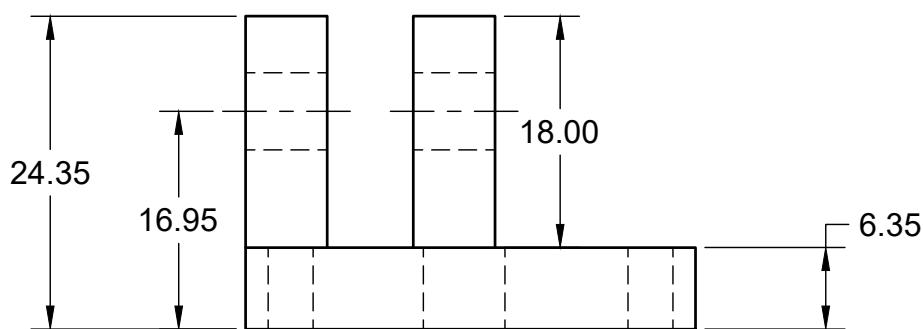
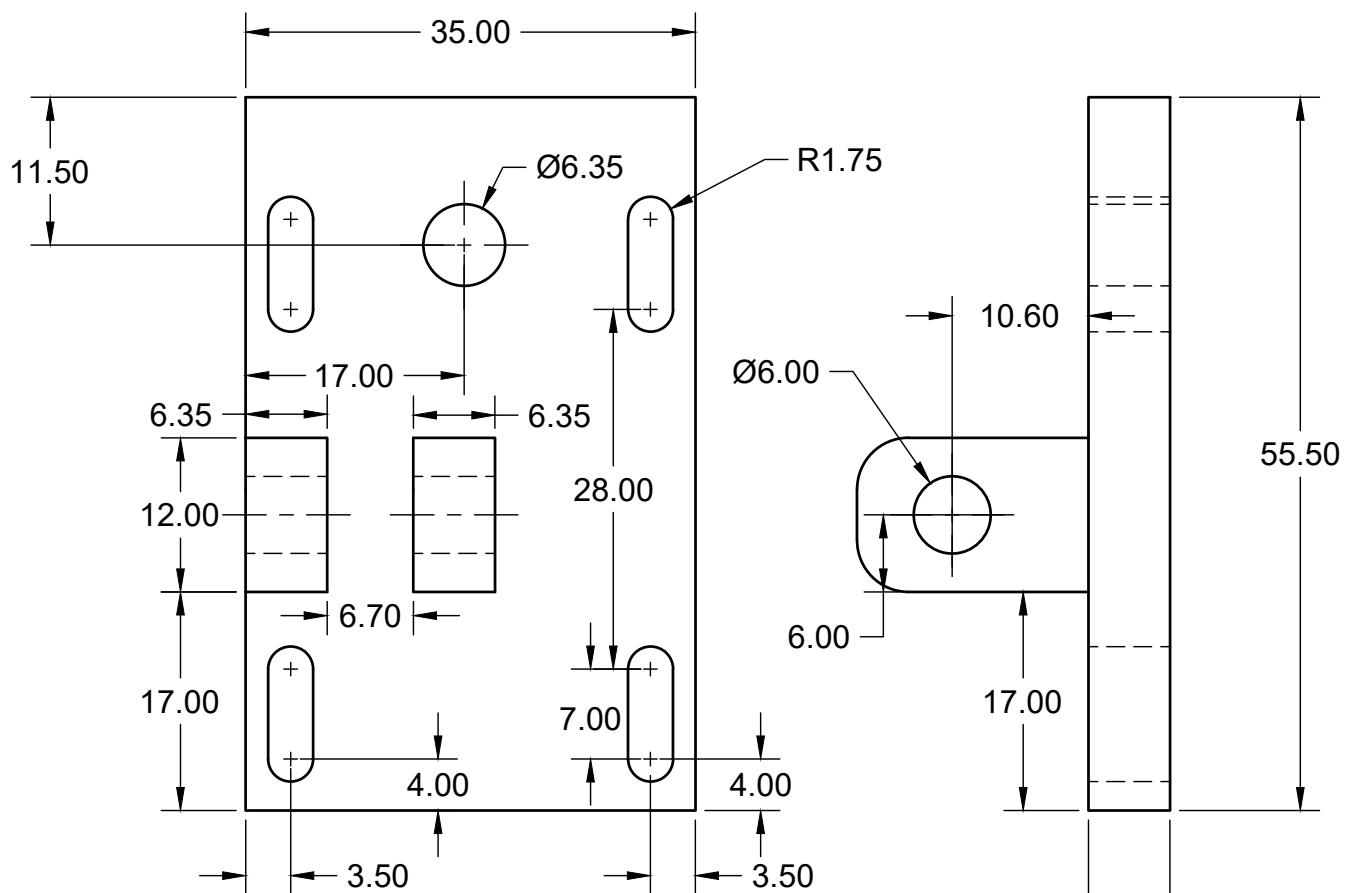
Height Sensor Assembly



This assembly detects when the slide reaches the correct location as it is lifted by the elevator. The limit switch is mounted on a rotating member which is held in place by a pair of magnets that serve to hold the limit switch "closed" as seen in this drawing. The orientation and height of the switch can be controlled by three different mechanisms. The most sensitive is controlled by the adjuster knob. The names are aligned with the names on the Fusion 360 model and the model should be referenced for more detail.



The height sensor has two positions: closed (a) and open (b). When scanning, the sensor is closed to detect each slide when it arrives at the proper height. When open (a), the hopper is exposed which permits loading of slides into the hopper. The magnets are seen in both views and shown green. The orientation of the magnets is such that they attract each other normally forcing the switch to the closed position. A gentle pull on the body of the limit switch will allow it to be pulled open. Rotating the knob defines the position of the switch in the closed position. Using this knob, the trigger position of the switch can be fine tuned during operation.



PROJECT

slide scanner for web

TITLE

**height sensor mounting plate
3D printed part**

STL file obtained from the Fusion 360 model

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

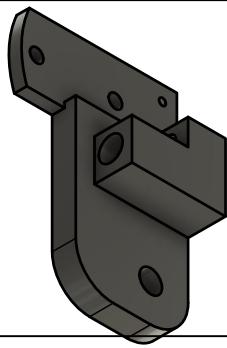
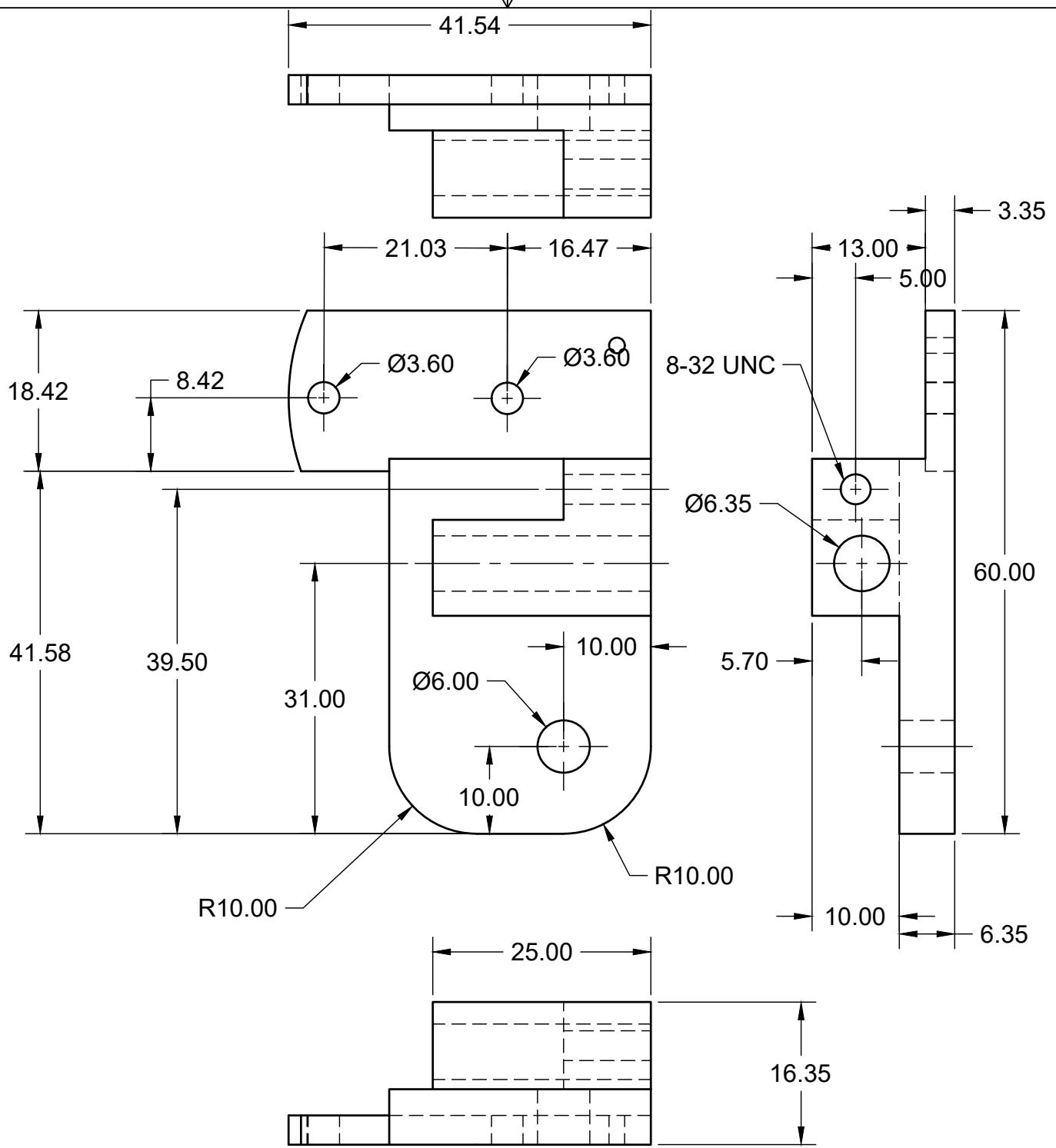
A

DRAWN Donald Plewes 5/17/2021

SCALE 1.7

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**height sensor rotating plate
3D printed part**

STL file from the Fusion 360 model

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

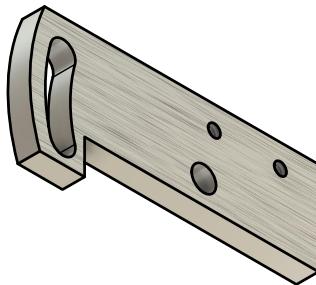
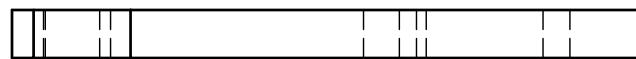
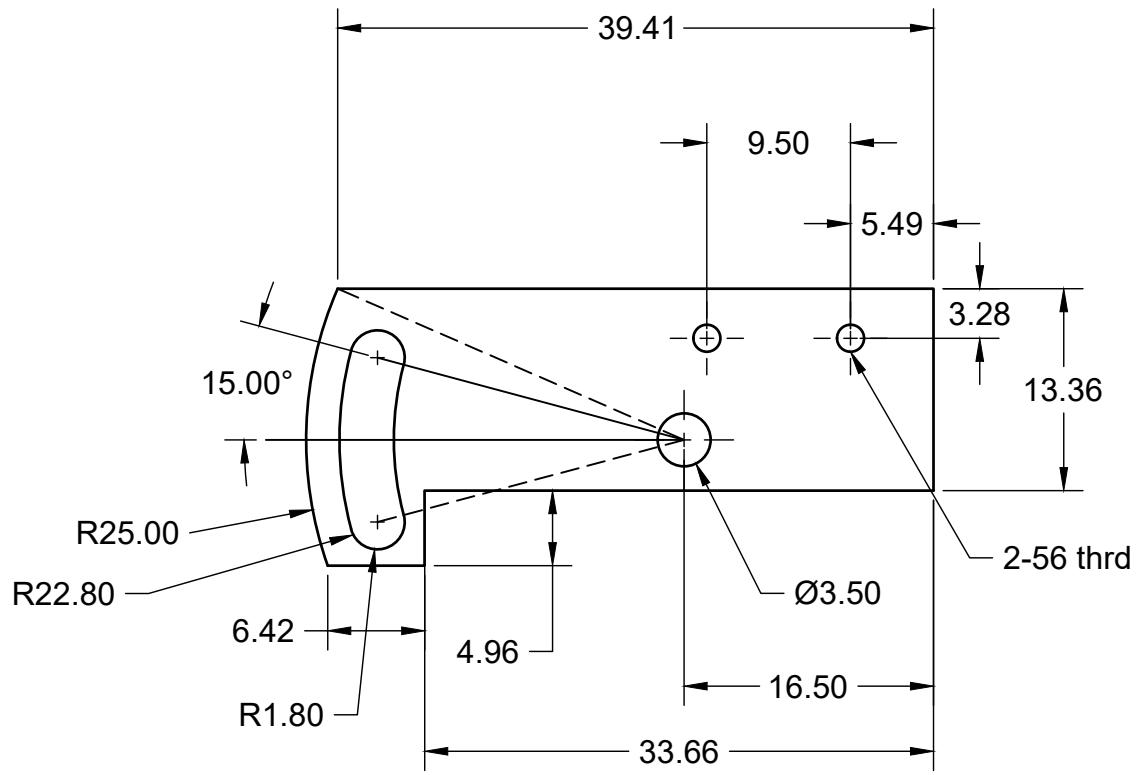
A

DRAWN Donald Plewes 5/17/2021

SCALE 1:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**height sensor
adjuster plate for height sensor**

Aluminum 1/8"

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

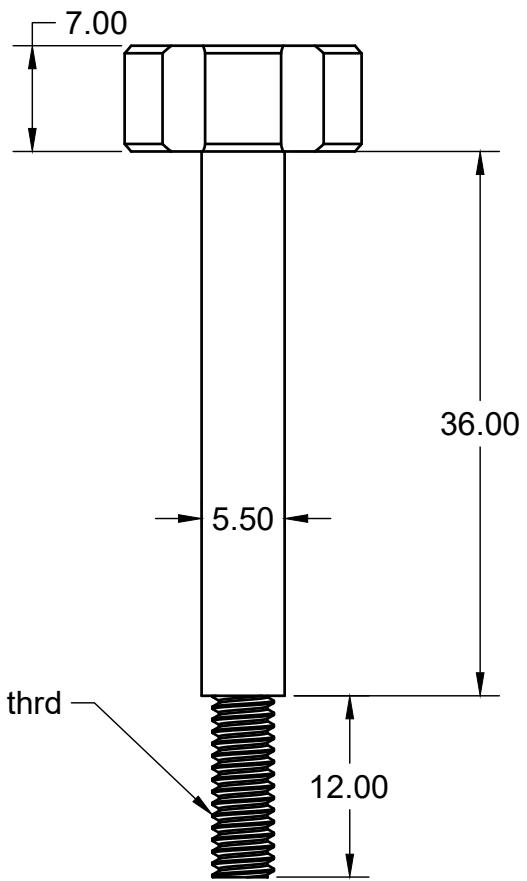
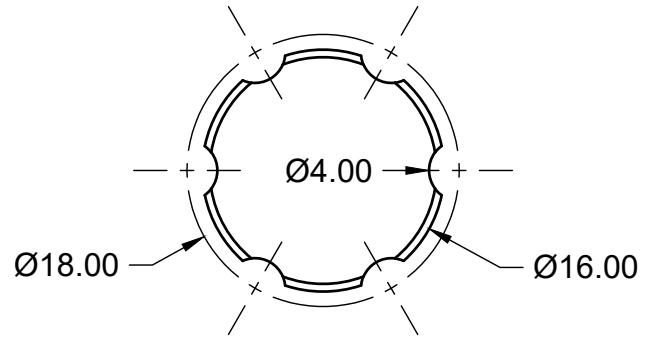
A

DRAWN Donald Plewes 5/17/2021

SCALE 2:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**adjustment knob for height sensor
Brass**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

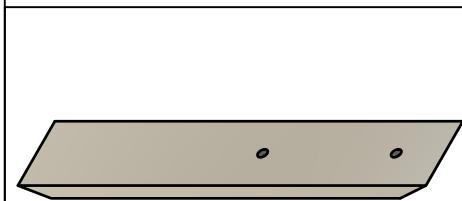
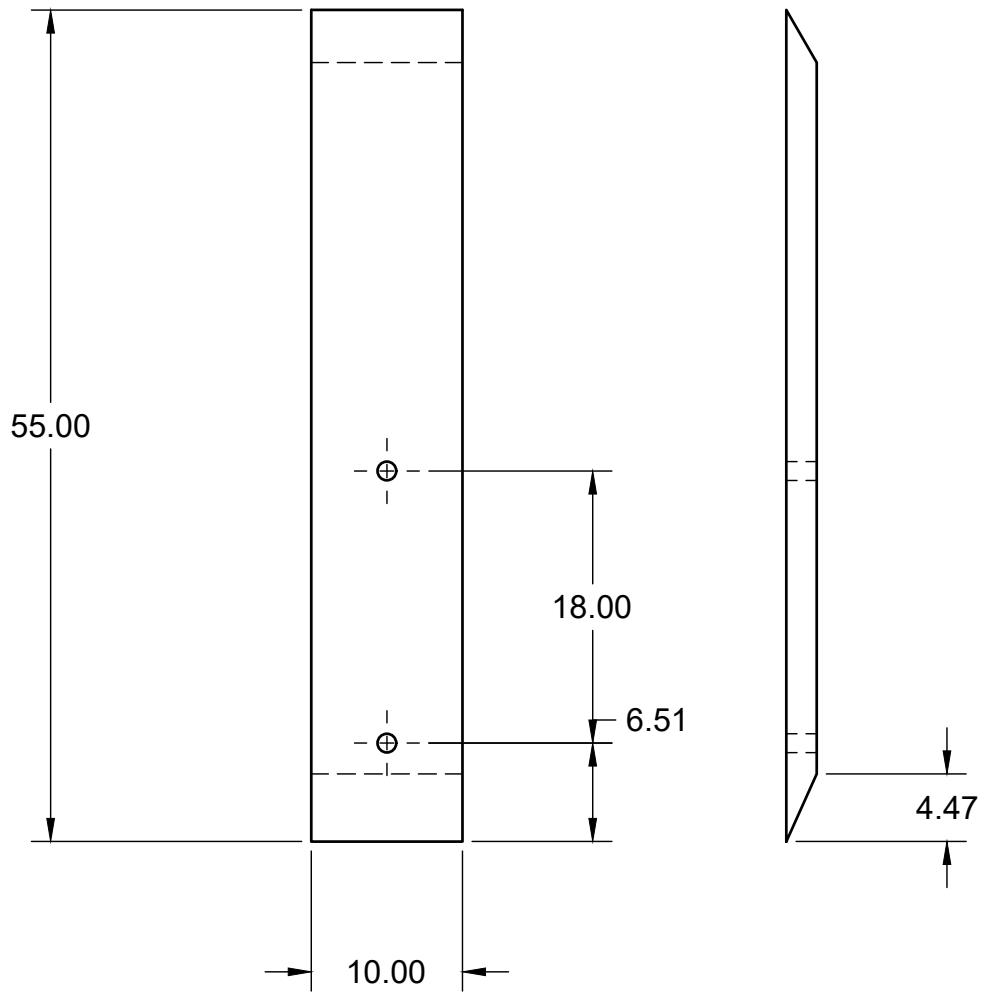
A

DRAWN Donald Plewes 5/17/2021

SCALE 2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**height sensor
extender plate**

1/8" aluminum

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

A

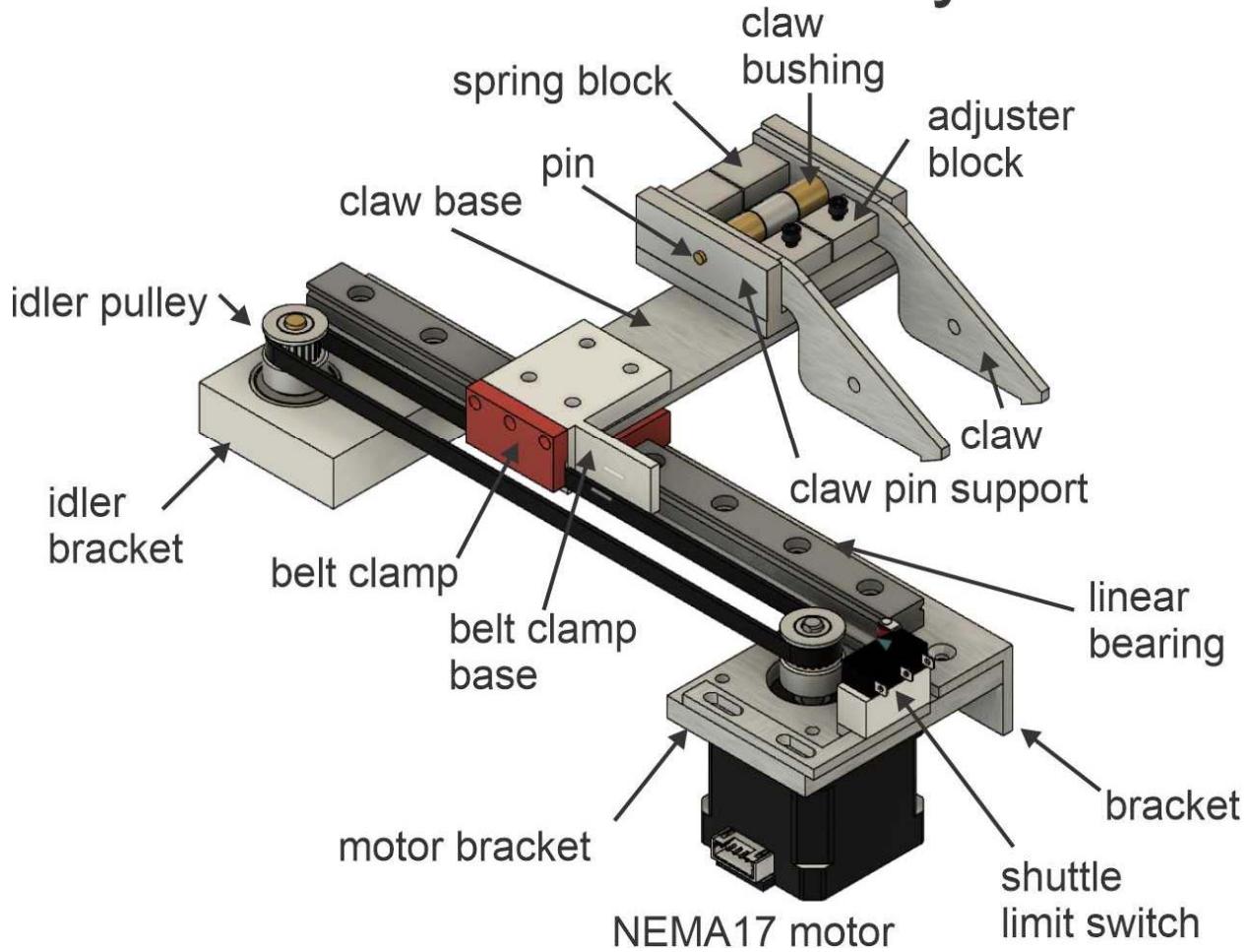
DRAWN Donald Plewes 5/17/2021

SCALE 2

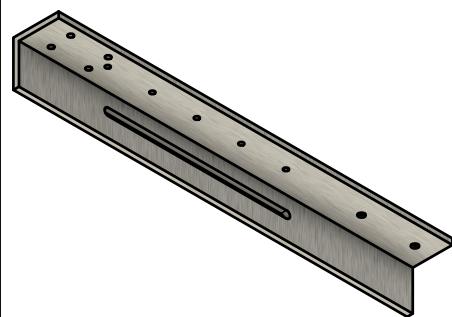
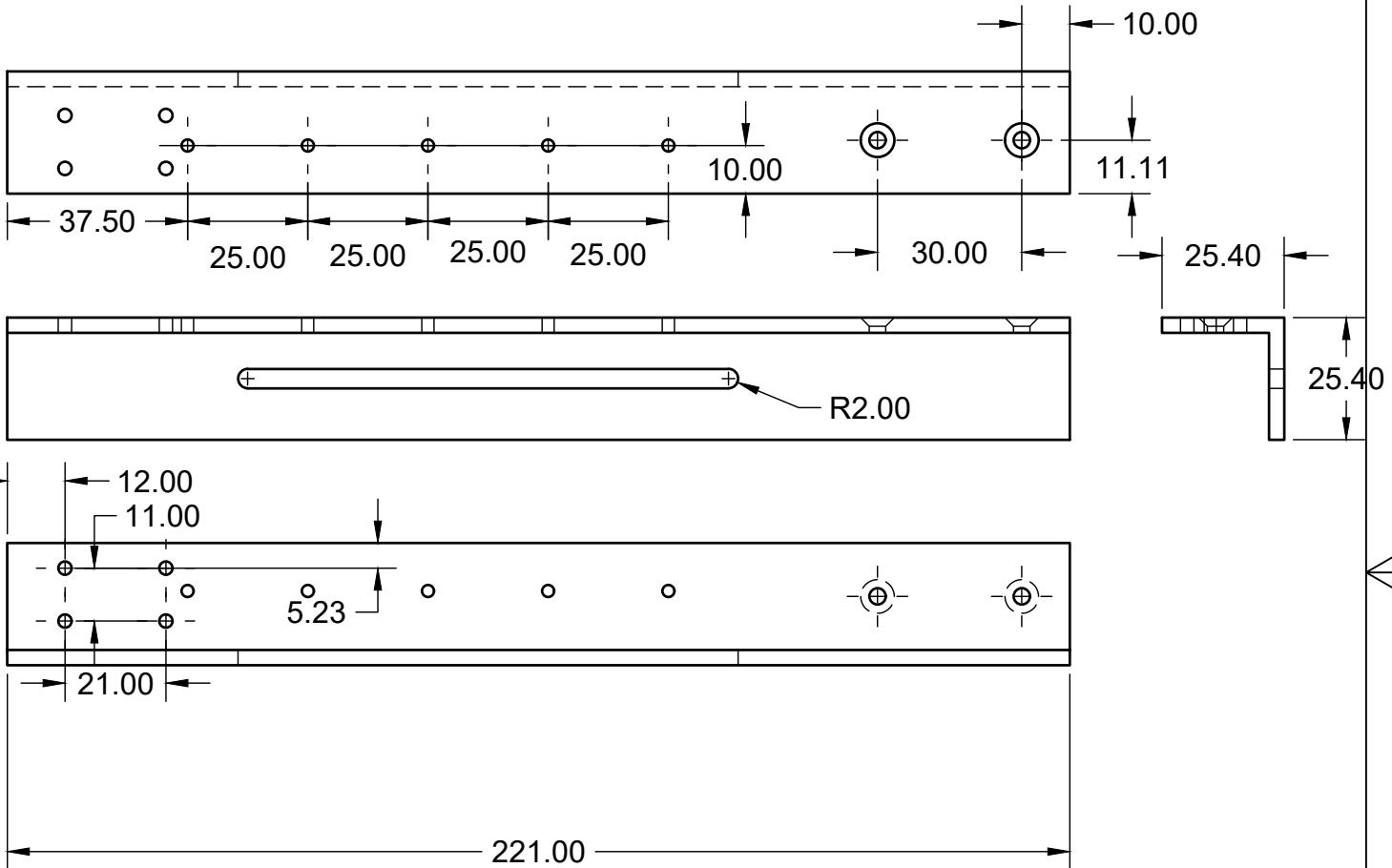
WEIGHT

SHEET 1/1

Shuttle Assembly



This is the assembly of the shuttle. This component captures each slide and moves it along a track to the light box and beyond. The names of the parts are aligned with the naming on the Fusion 360 model.



PROJECT

slide scanner for web

TITLE

**shuttle assembly
Bracket for Shuttle**

1/8" x 1" x 1" aluminum channel

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

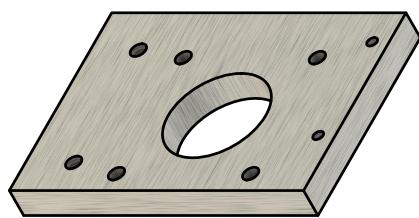
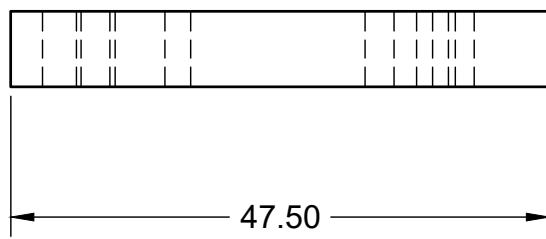
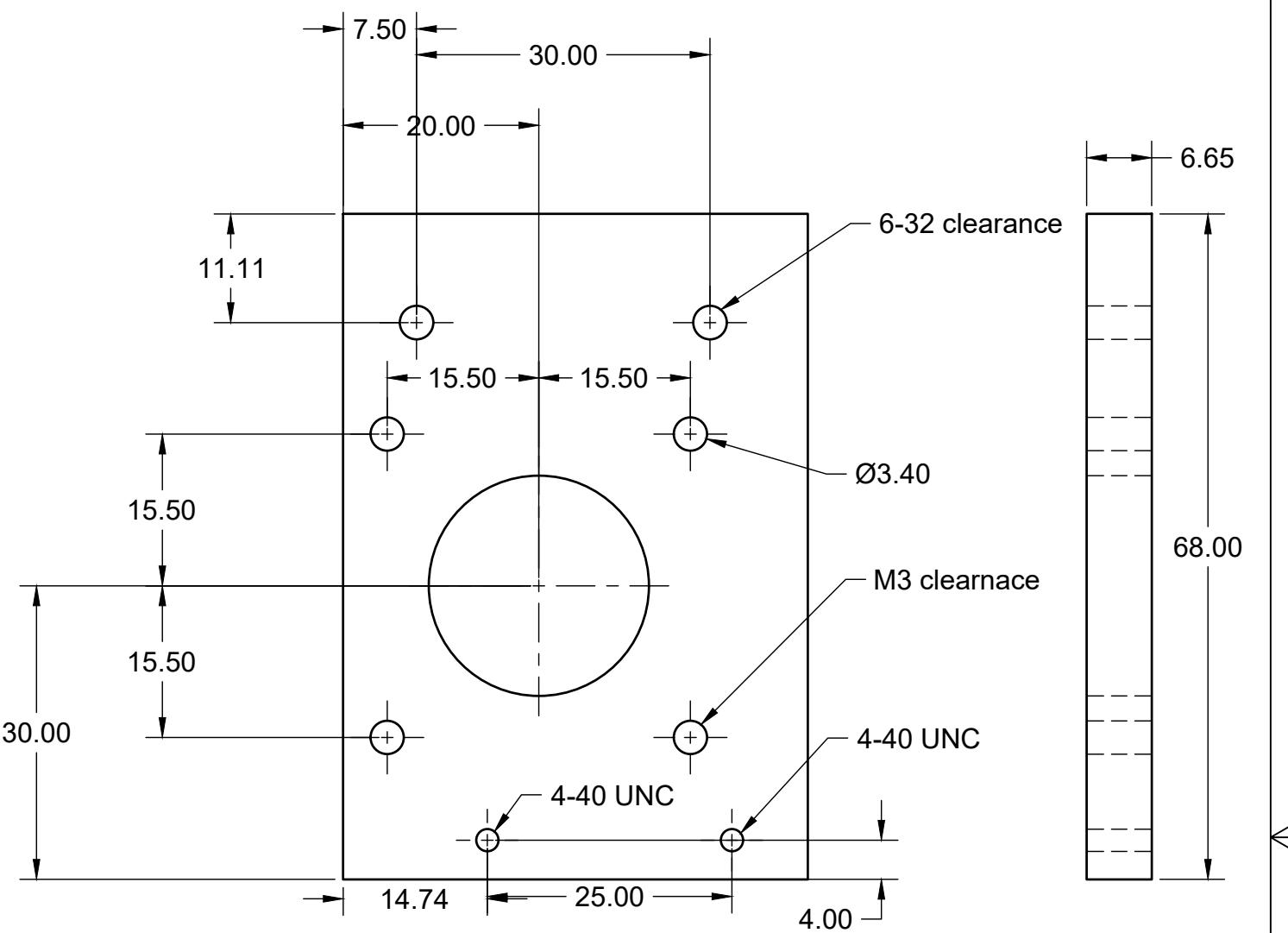
A

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SCALE 1:2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
Shuttle motor bracket**

1/4" aluminum or Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

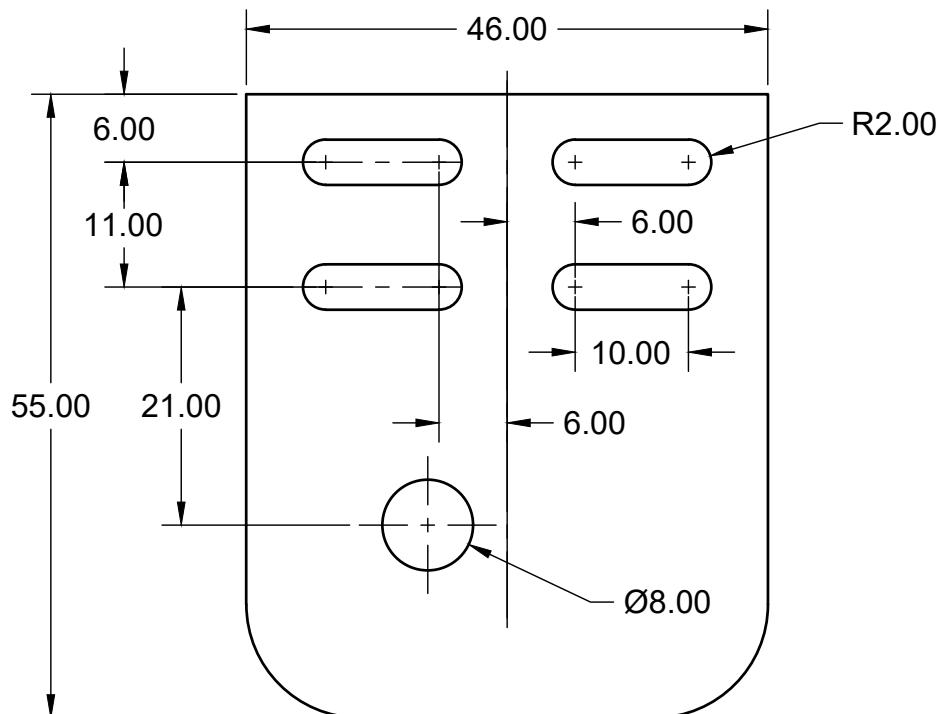
A

DRAWN Donald Plewes 5/13/2021

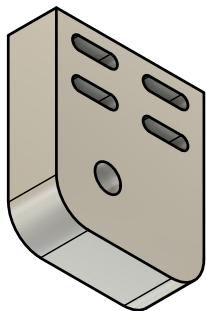
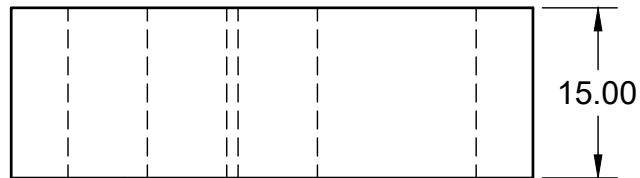
SCALE 1.5

WEIGHT

SHEET 1/1



Press fit idler
bushing



PROJECT

slide scanner for web

TITLE

**shuttle assembly
idler shaft bracket**

Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

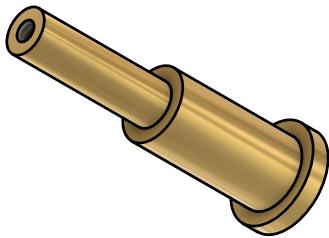
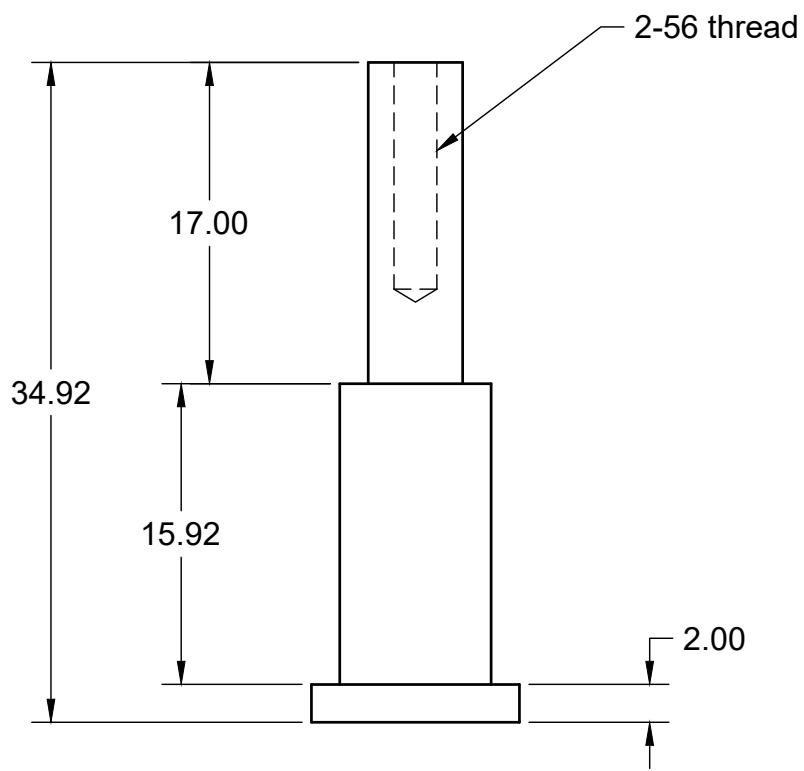
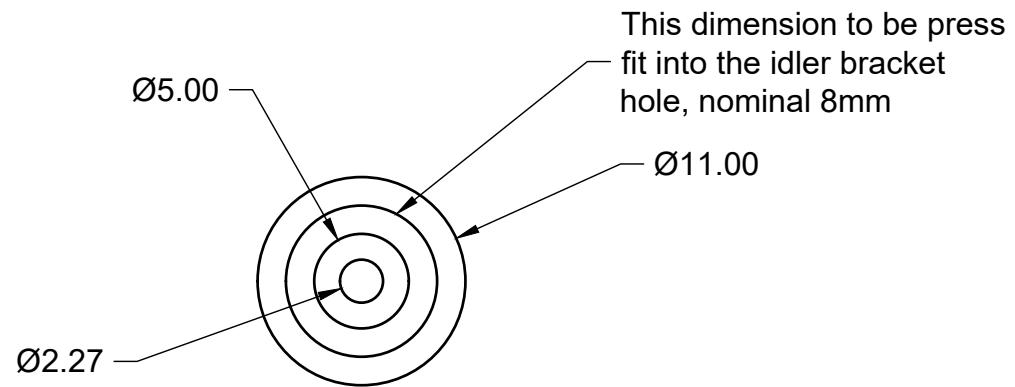
A

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SCALE 1.5

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Shuttle Assembly
shuttle idler shaft for GT2 pulley**

Brass

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

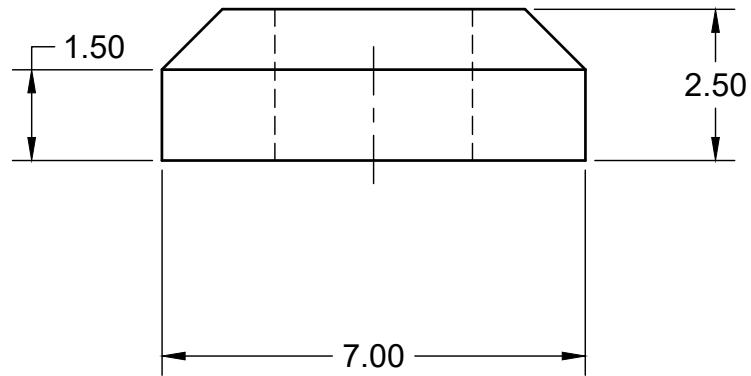
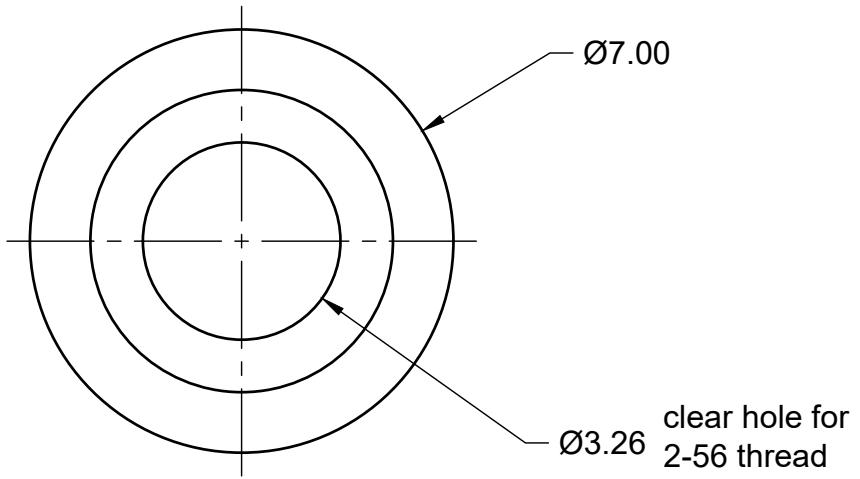
A

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SCALE 2.5

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Shuttle Assembly
end cap washer for idler shaft**

brass

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

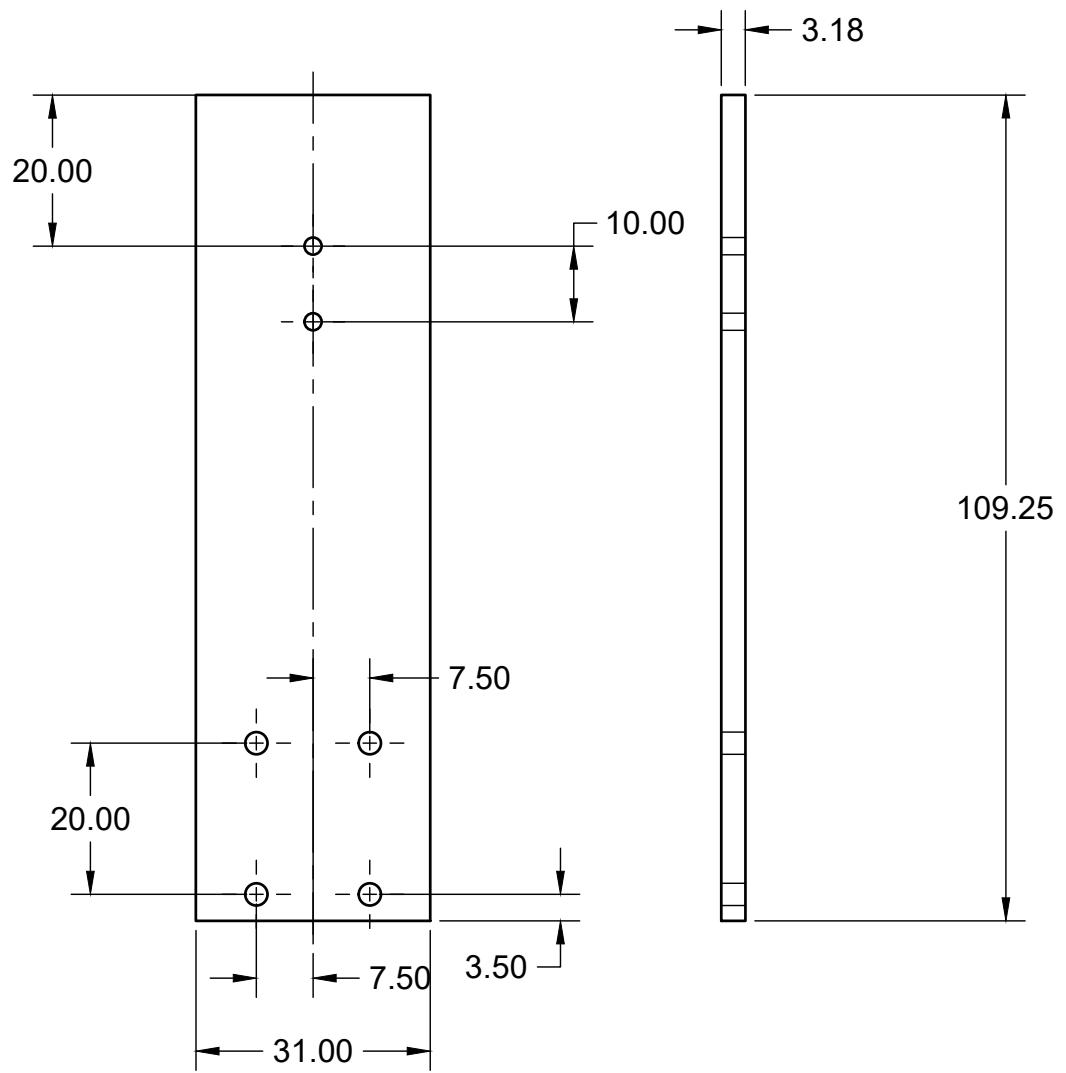
A

DRAWN Donald Plewes 5/12/2021

SCALE 8:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
claw base**

1/8" Aluminum

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

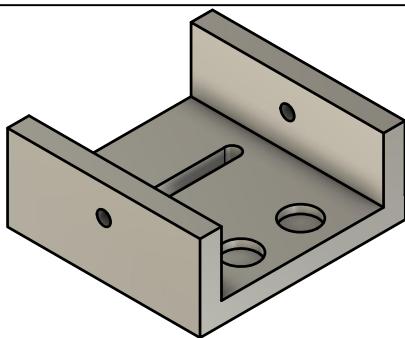
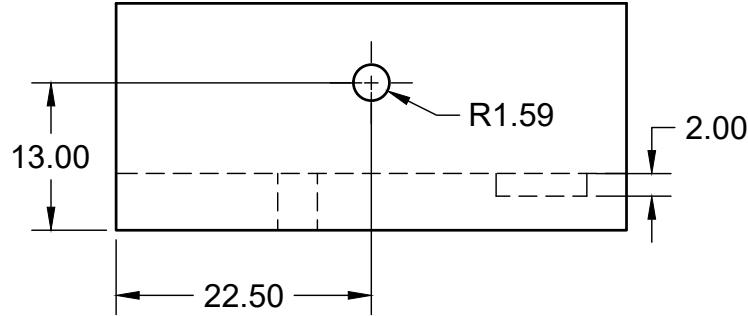
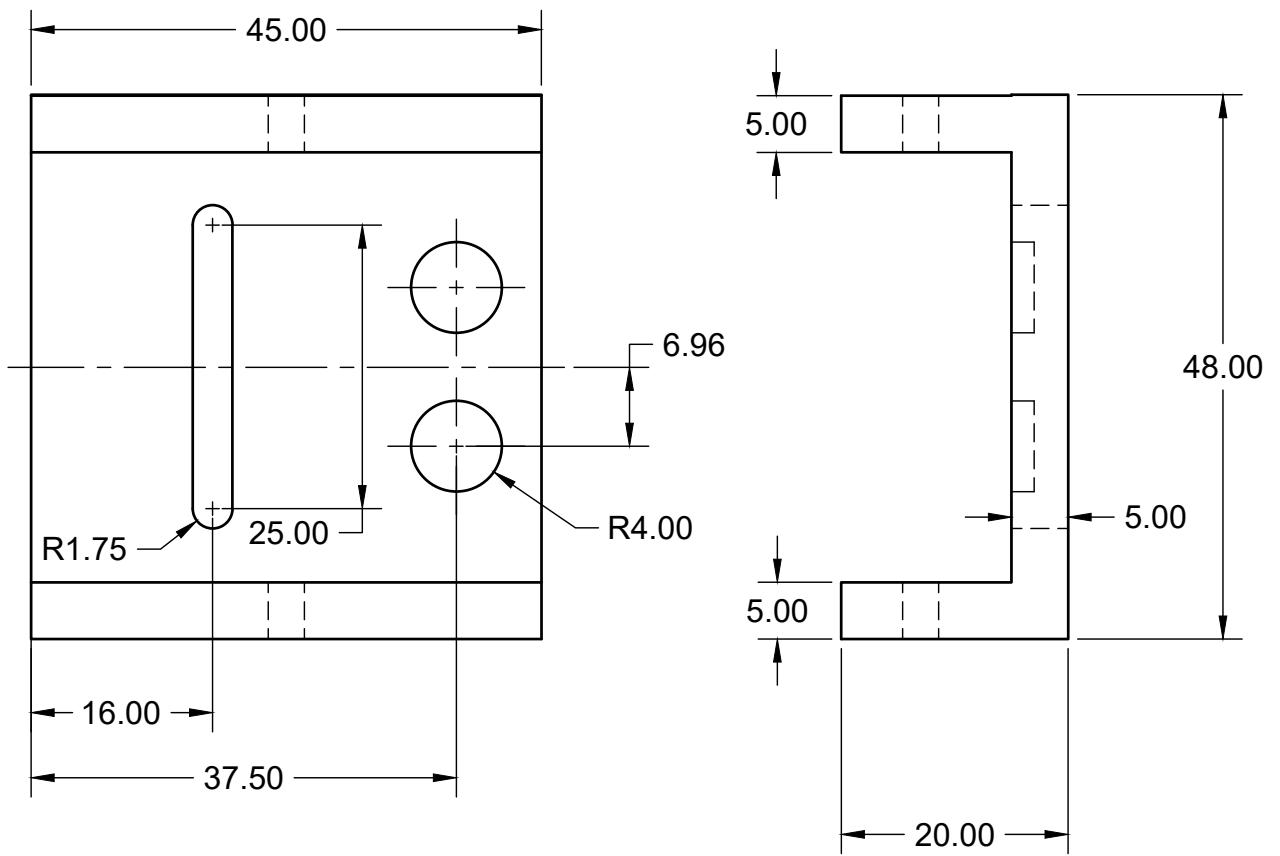
A

DRAWN Donald Plewes 5/12/2021

SCALE 1:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
Claw Pin Support**

Delrin from a large block

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

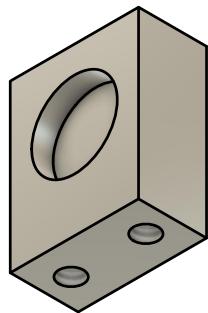
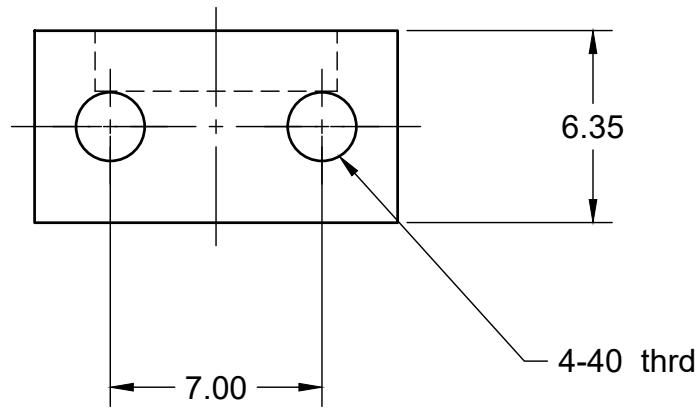
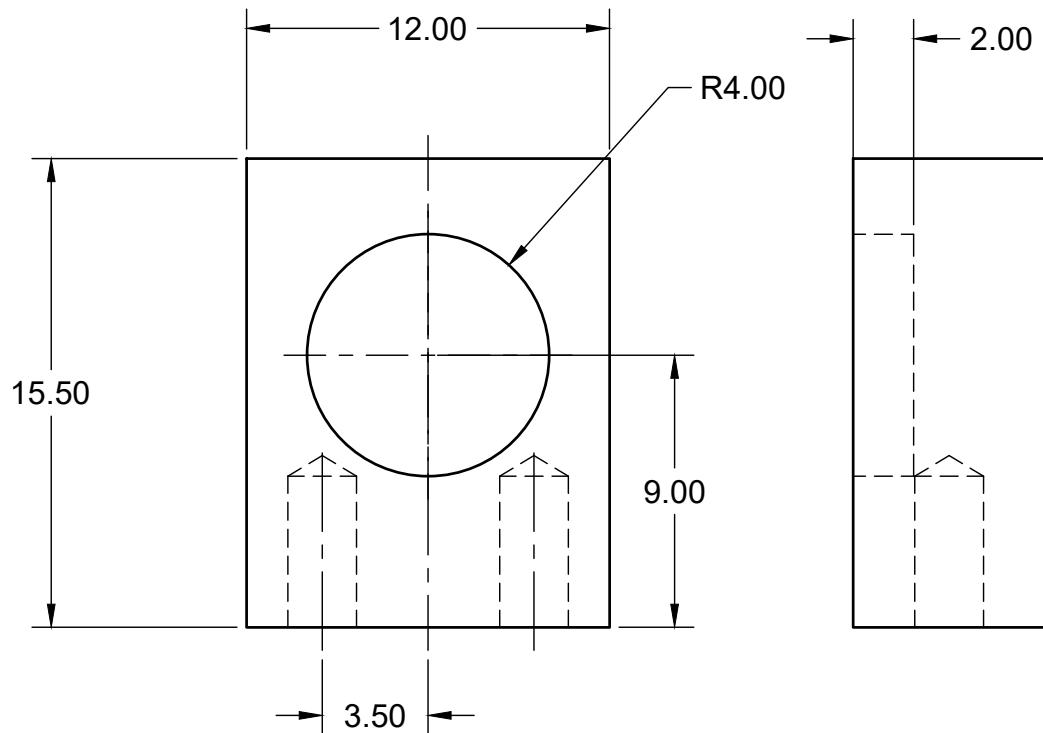
A

DRAWN Donald Plewes 5/13/2021

SCALE 1.5:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
Spring block for claw assembly**

Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

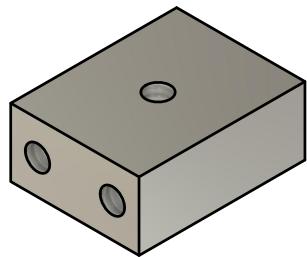
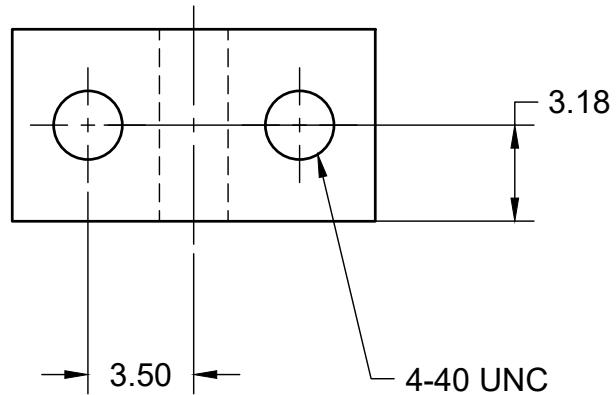
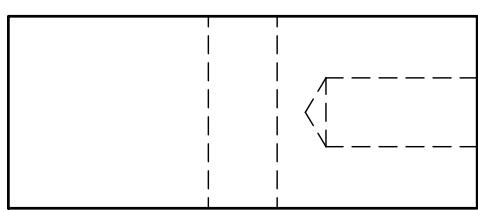
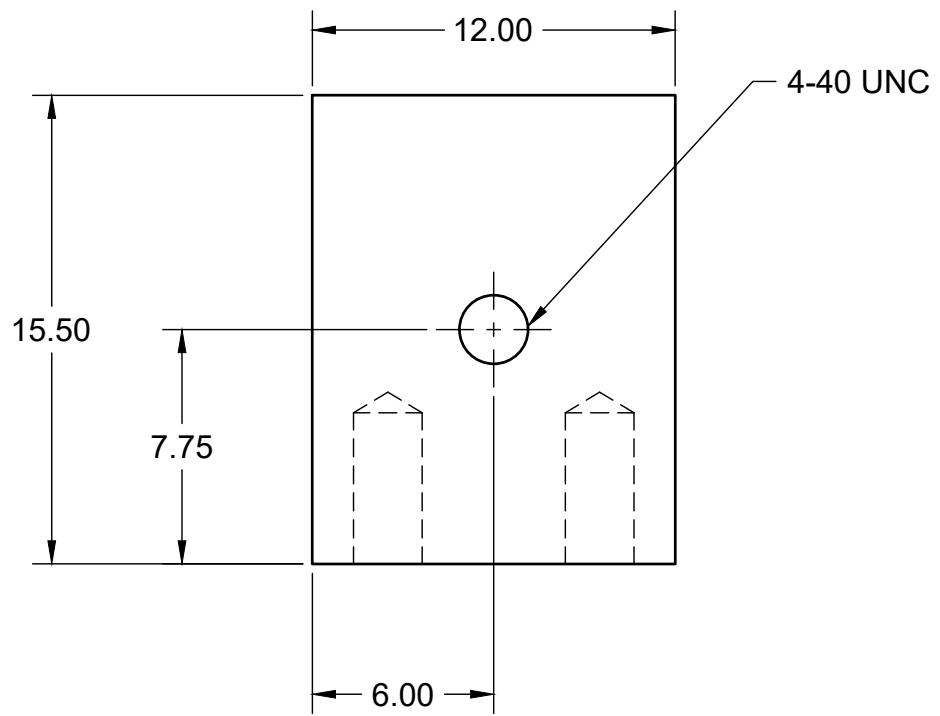
A

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SCALE 4:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
Set Screw Block**

Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

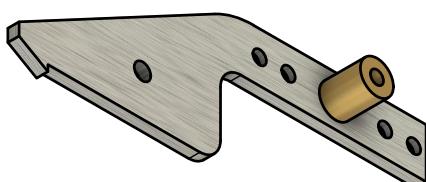
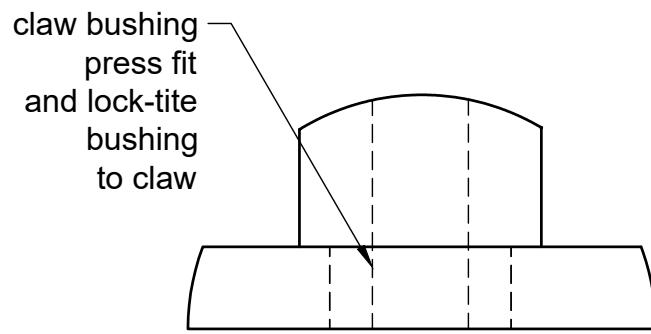
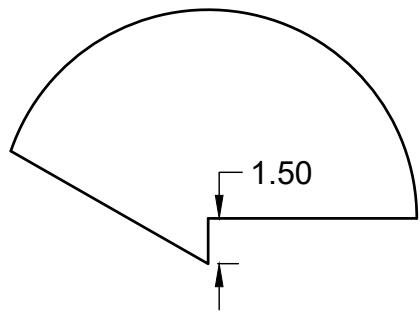
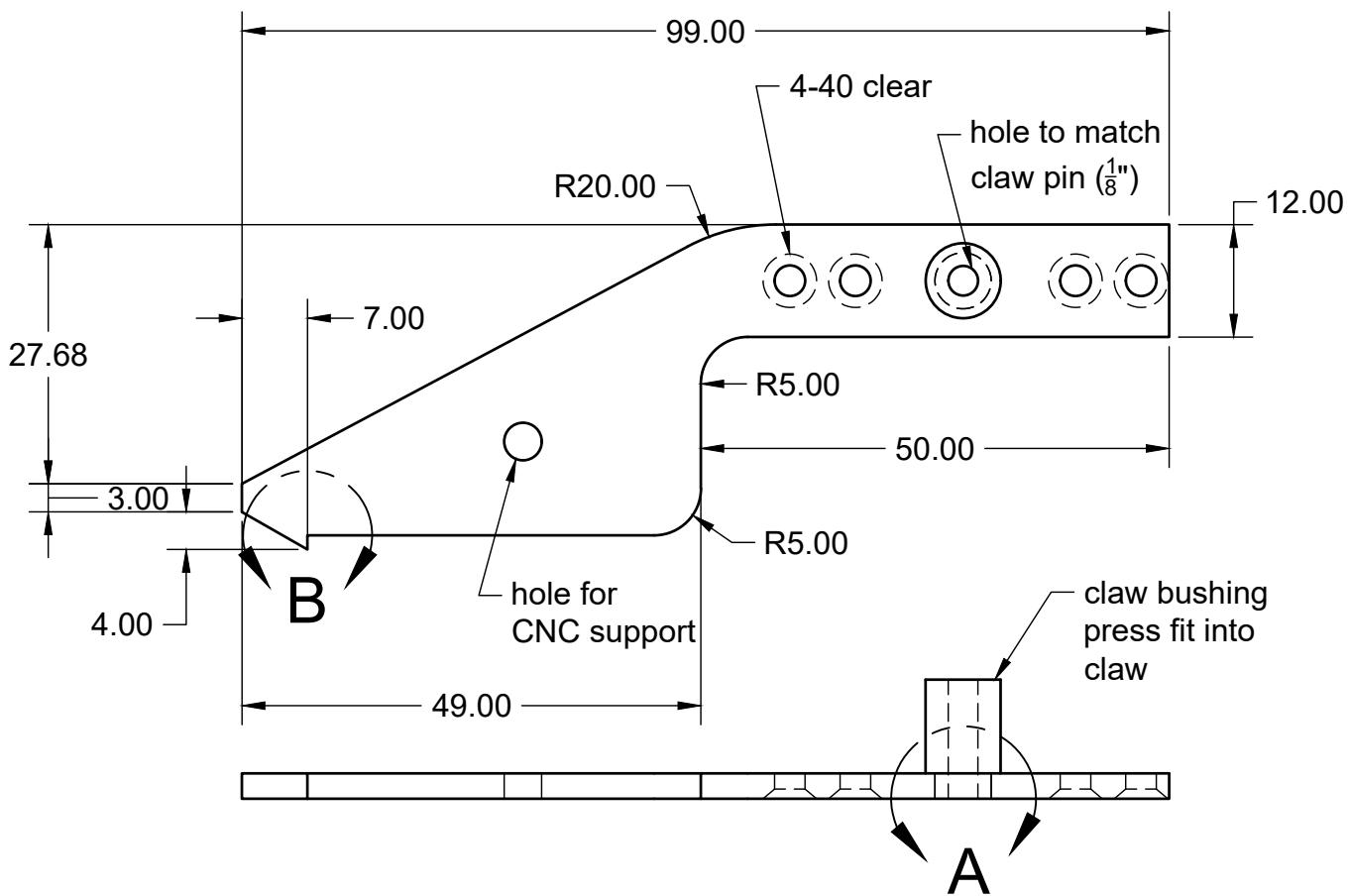
A

DRAWN Donald Plewes 5/17/2021

SCALE 4:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
Claw and Bushing**

1/8" aluminum and brass

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

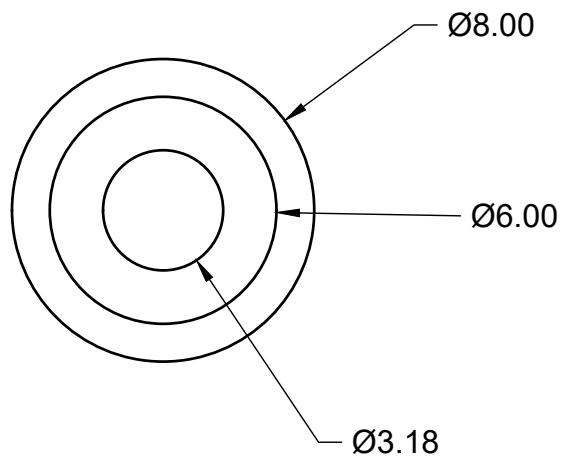
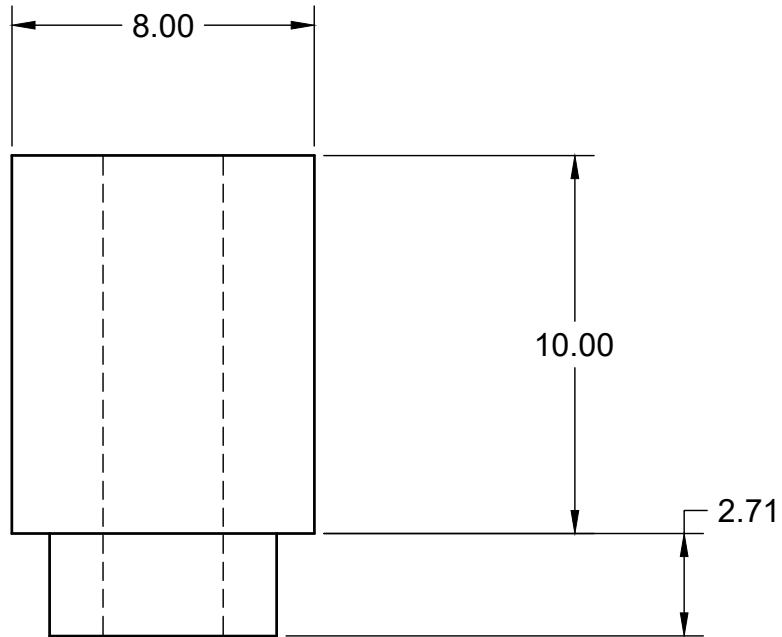
A

DRAWN Donald Plewes 5/13/2021

SCALE 1:2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
Bushing for claw**

Brass

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

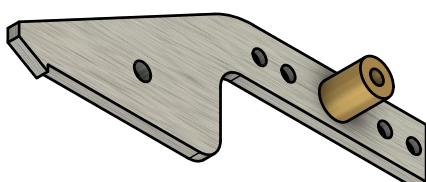
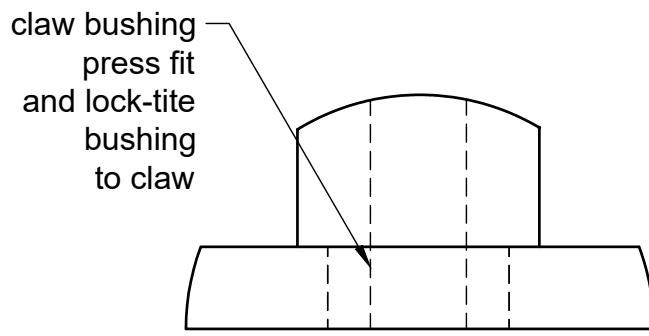
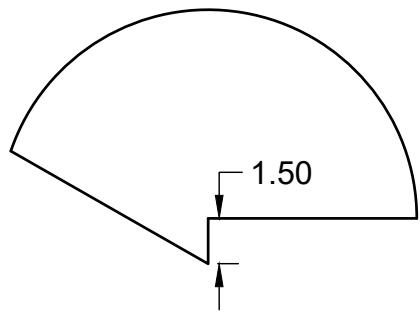
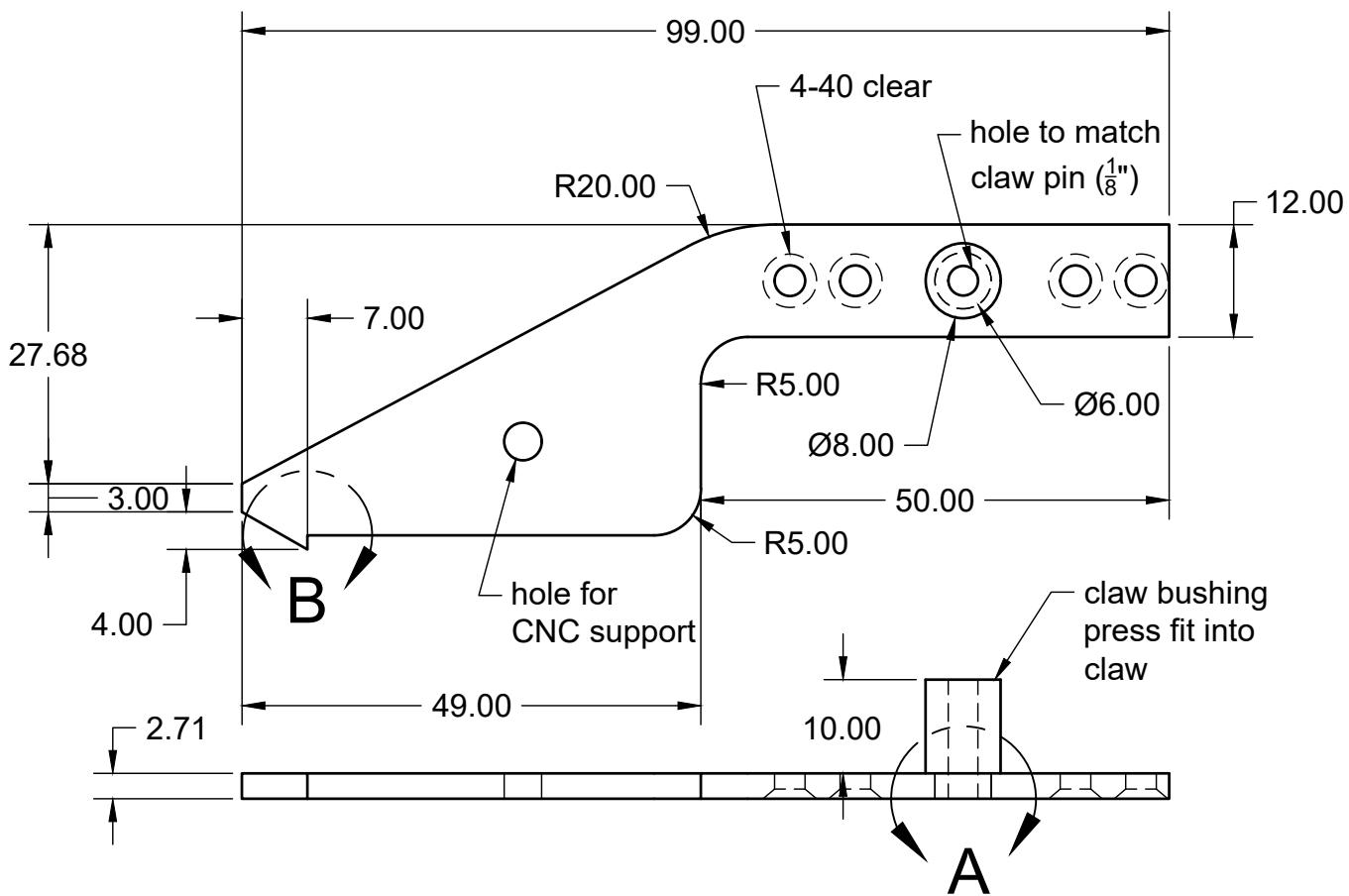
A

DRAWN Donald Plewes 5/17/2021

SCALE 5:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
Claw and Bushing**

1/8" aluminum and brass

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

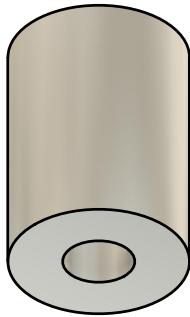
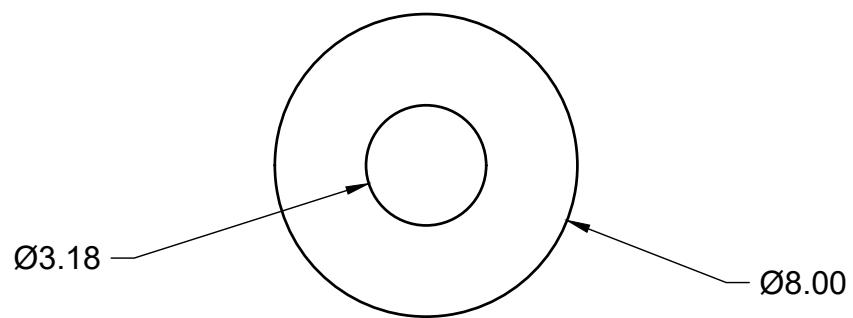
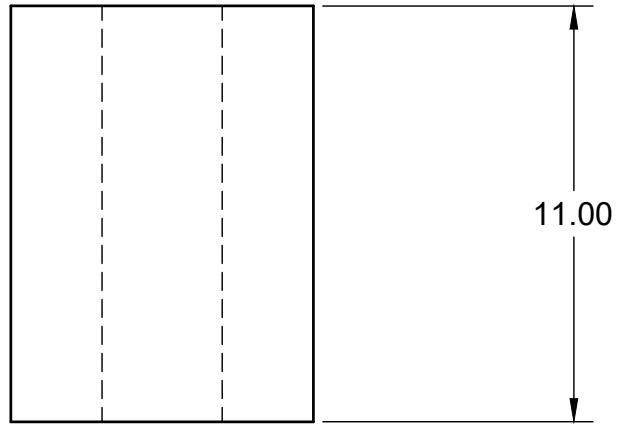
A

DRAWN Donald Plewes 5/13/2021

SCALE 1:2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
spacer cylinder for claw assembly**

Aluminum

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

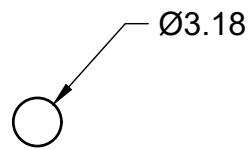
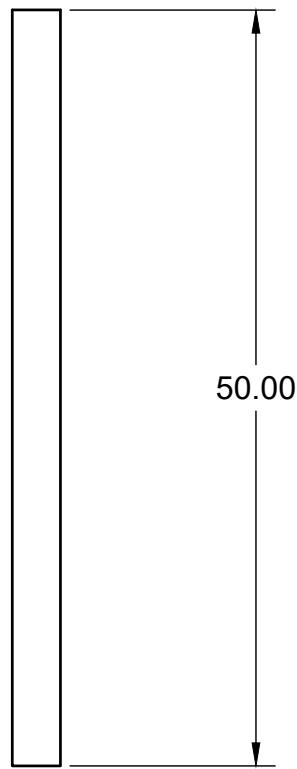
A

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SCALE 5:1

WEIGHT

SHEET 1/1



turn to press fit into
the holes in the claw
pin support

PROJECT

slide scanner for web

TITLE

shuttle assembly
shuttle pin for claw assembly

Steel turned to press fit into pin holder hole

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

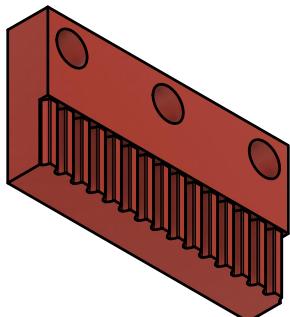
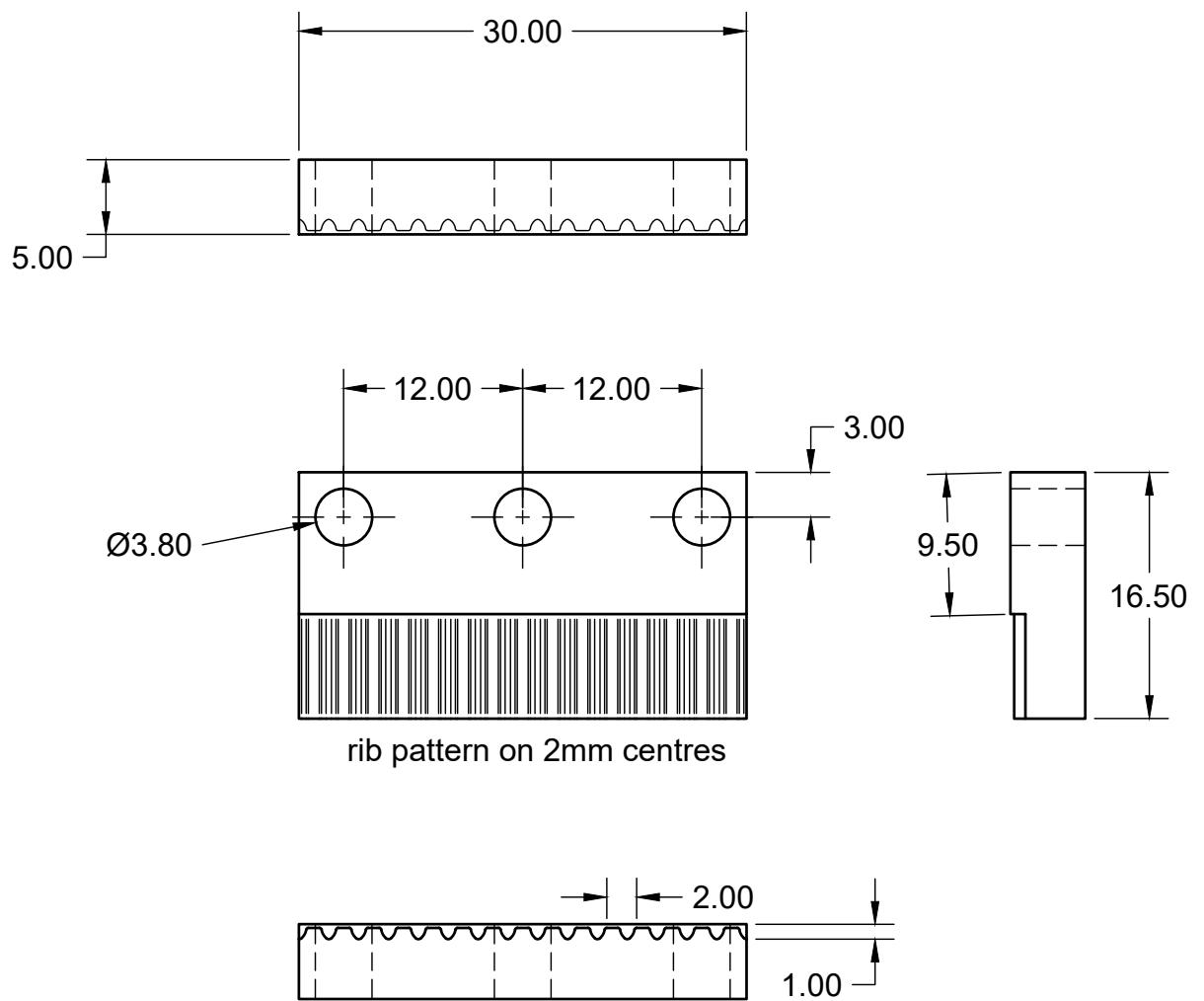
A

DRAWN Donald Plewes 5/14/2021

SCALE 2

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
belt clamp with ribs**

3-D printed

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

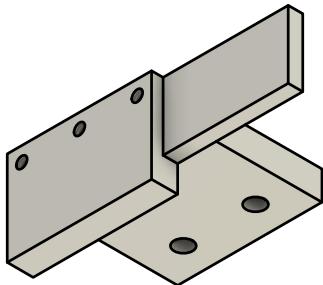
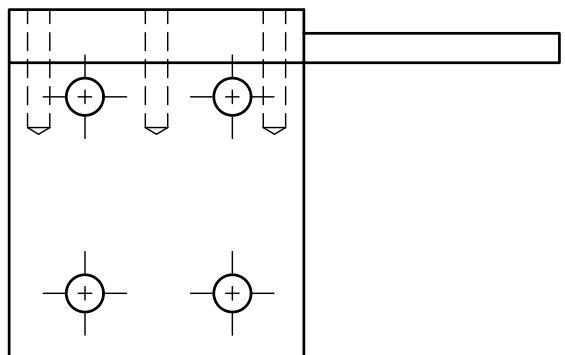
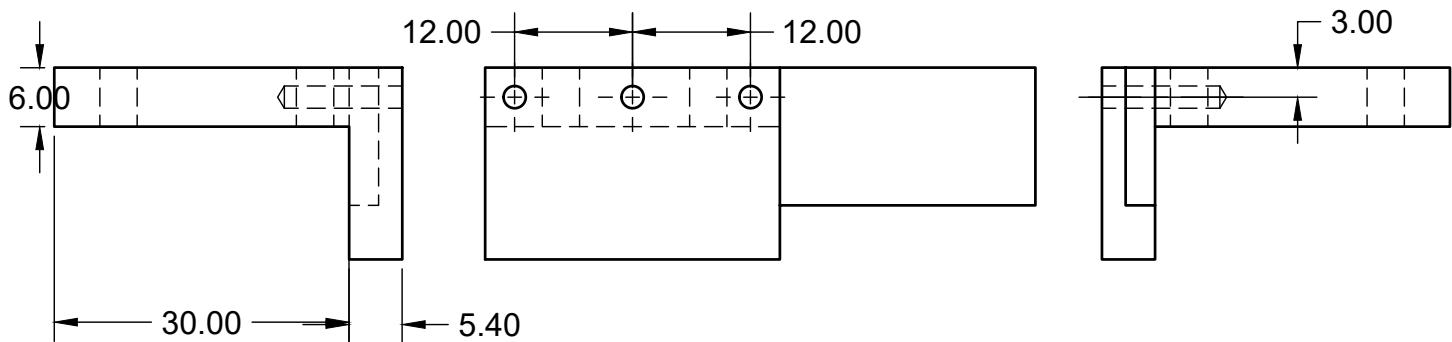
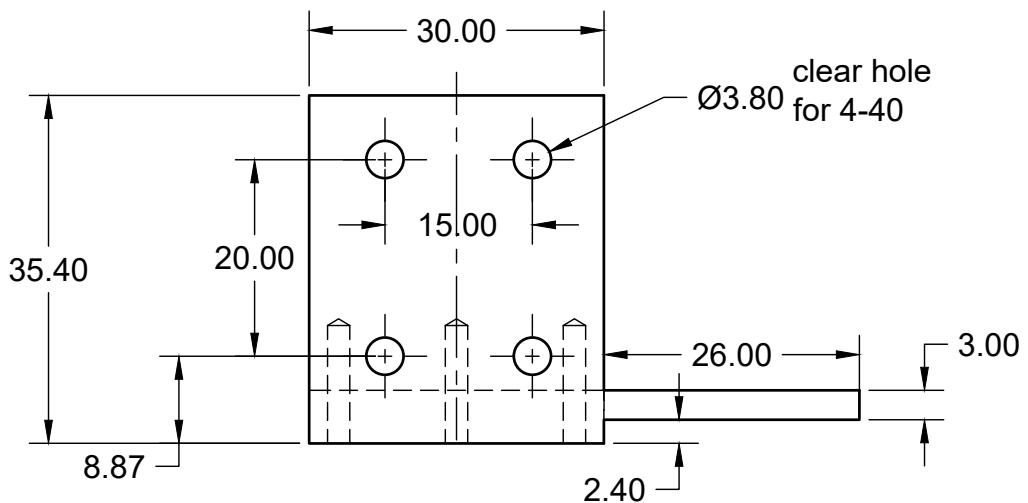
A

DRAWN Donald Plewes 5/12/2021

SCALE 2:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**shuttle assembly
belt clamp base**

3-D printed

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

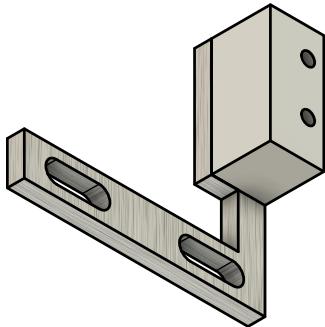
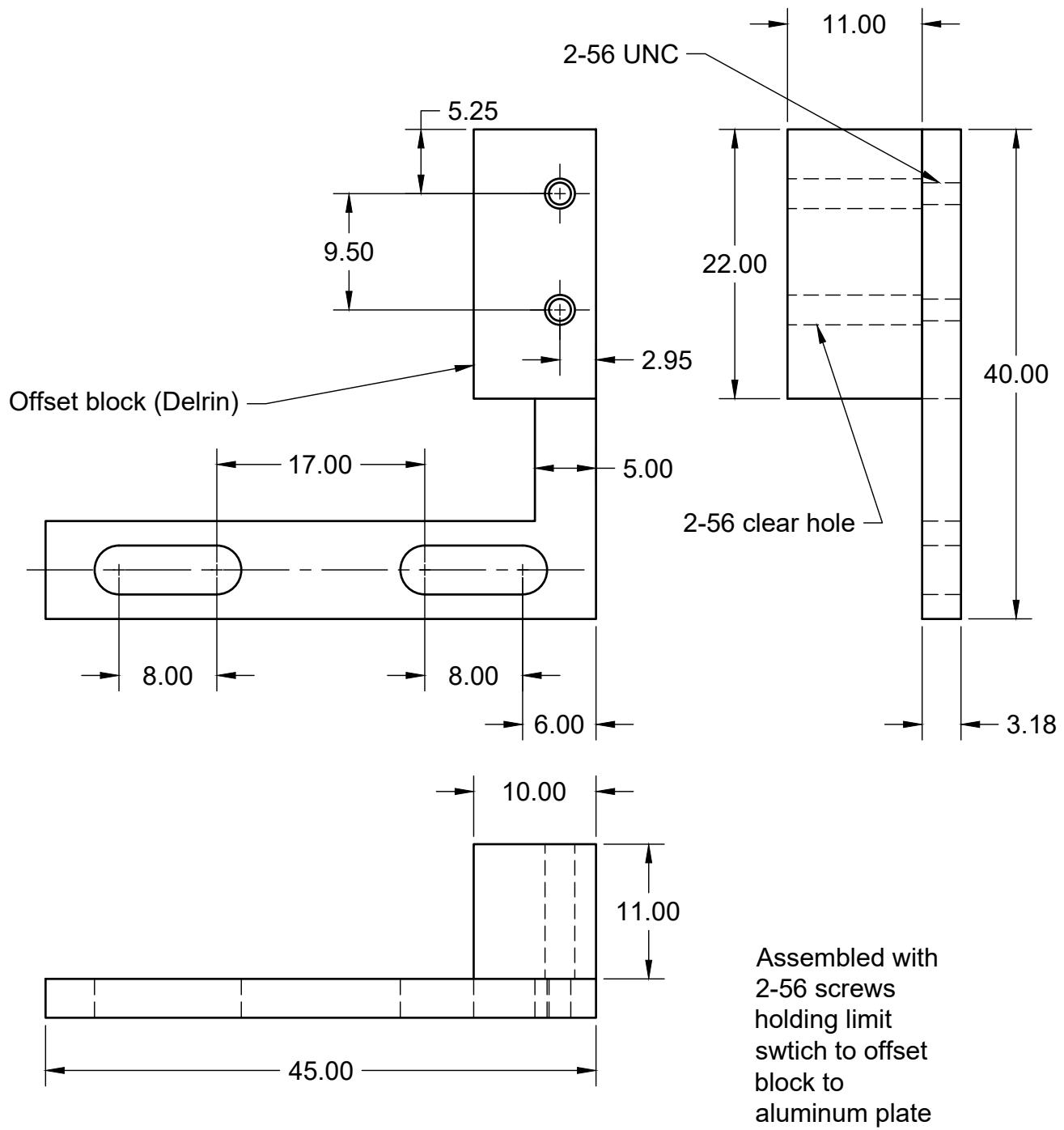
A

DRAWN Donald Plewes 5/12/2021

SCALE 1.5:1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

shuttle assembly
Shuttle limit switch support

1/8" aluminum and Delrin block

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

A

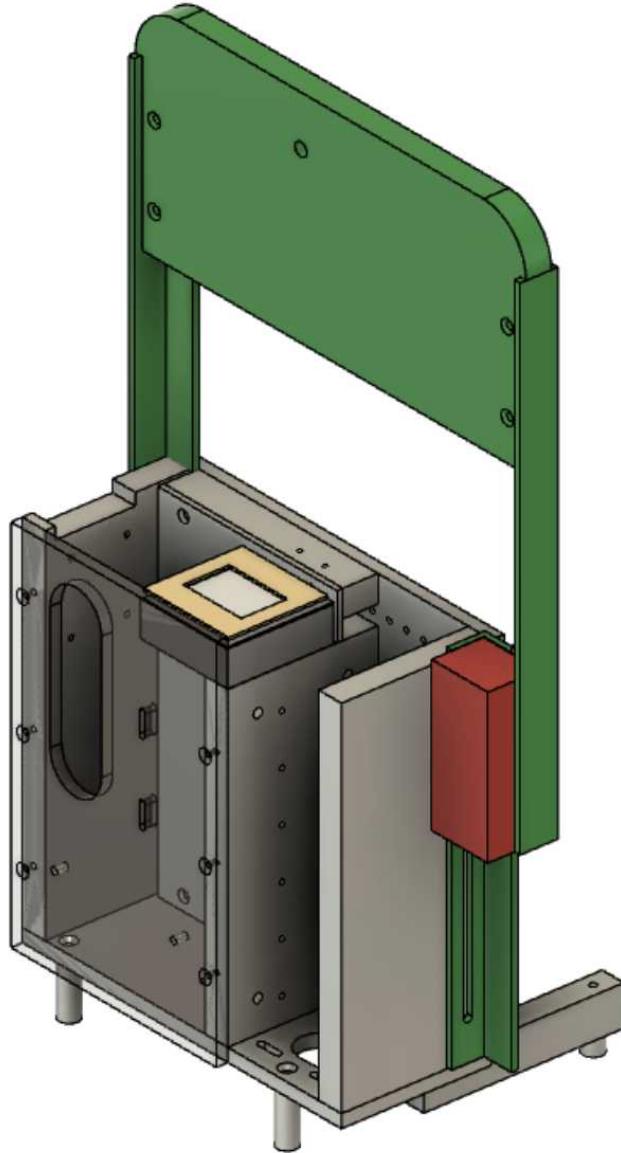
DRAWN Donald Plewes 5/13/2021

SCALE 2

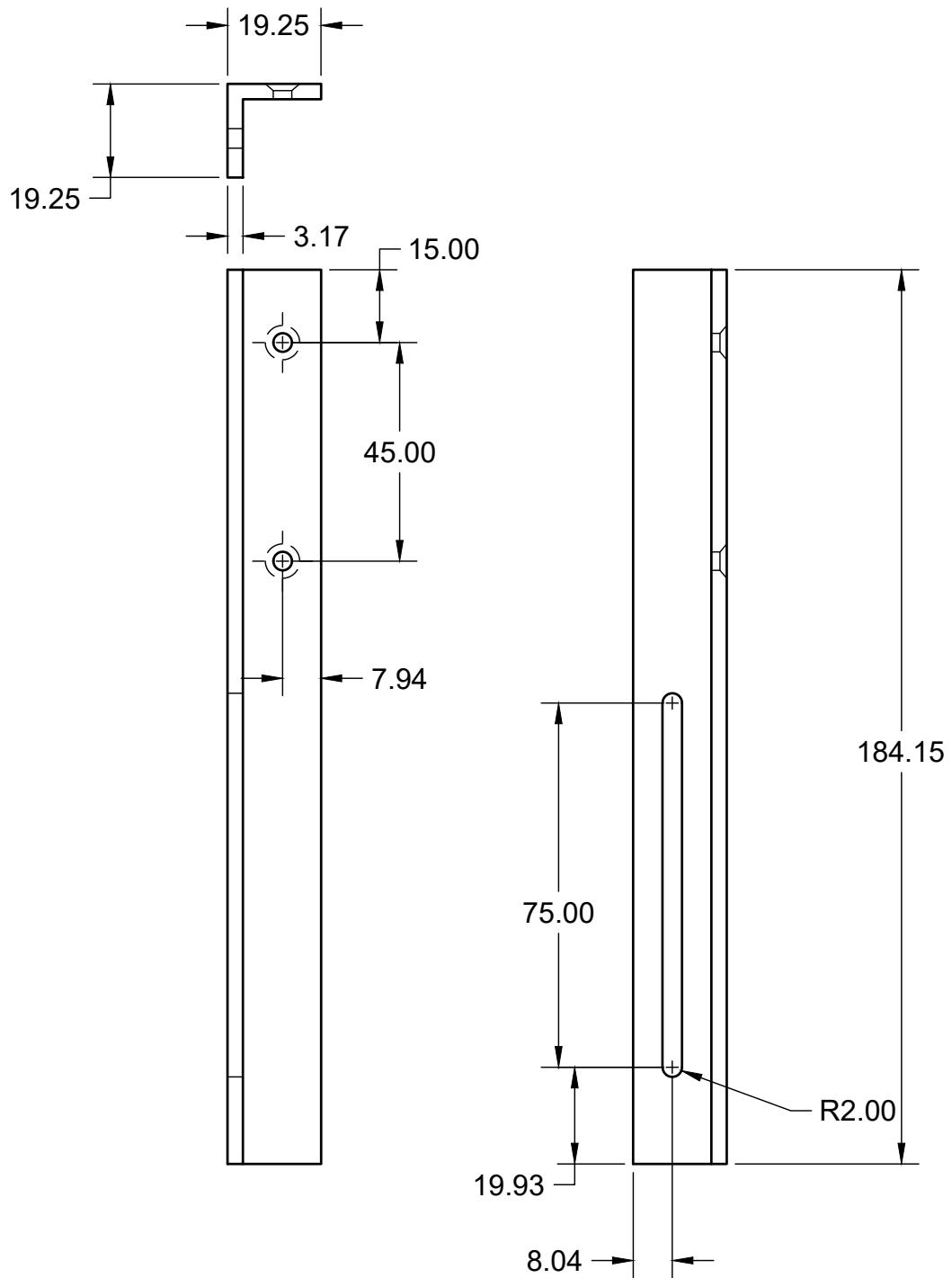
WEIGHT

SHEET 1/1

Camera Support



The camera is supported by rails on each side of the scanner frame. It is composed of 5 parts. The board which holds the camera is supported by a left and right set of rails. The right rail has an offset piece (red) which allows uninterrupted movement of the shuttle. The camera plate was made of $\frac{1}{2}$ " plywood which the channels were $\frac{3}{4}" \times \frac{3}{4}" \times \frac{1}{8}"$ aluminum channel. The rail offset was machined from a Delrin block.



PROJECT

slide scanner for web

TITLE

**right camera frame
Lower Bracket**

3/4"x3/4"x1/8" angle bracket Aluminum

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

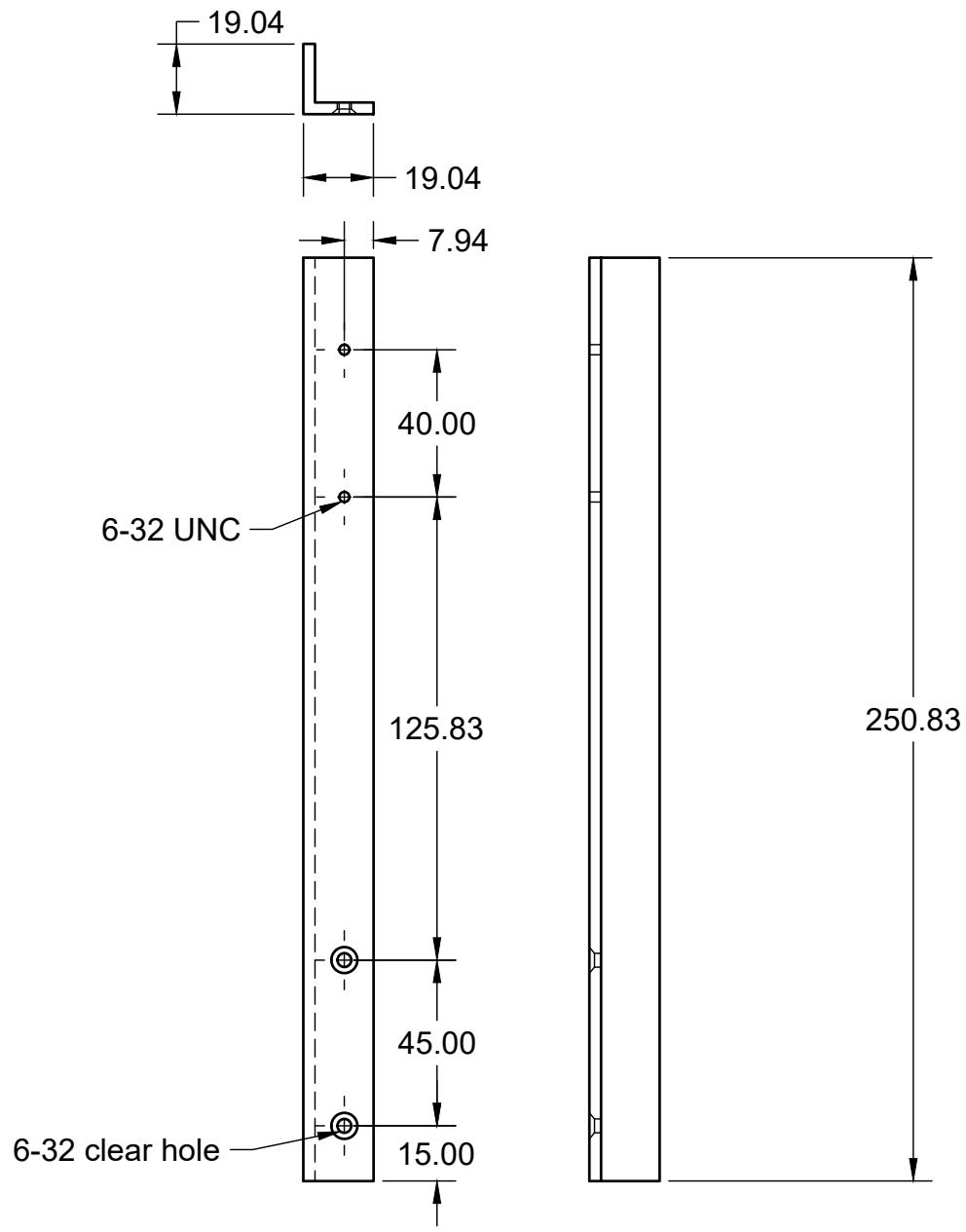
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DRAWN Donald Plewes 5/14/2021

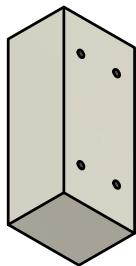
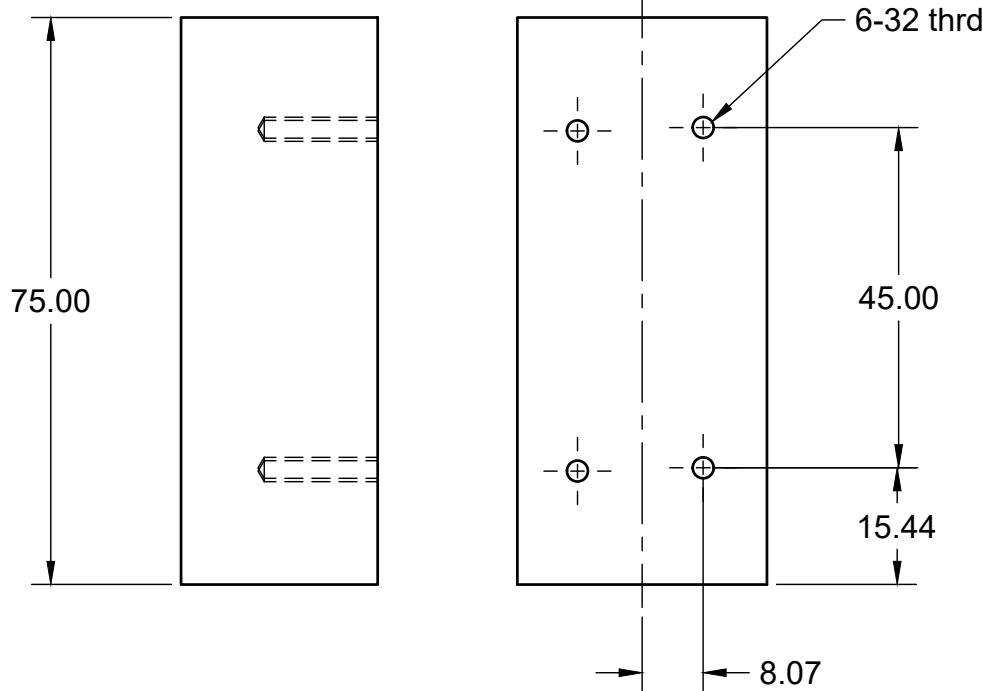
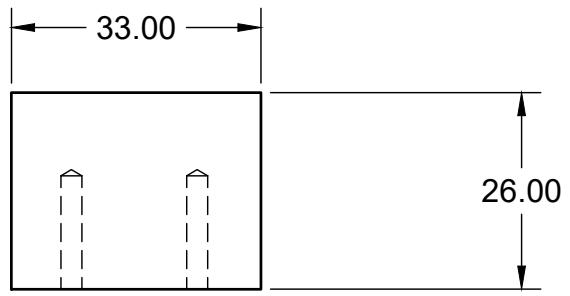
SCALE 1:1.4

WEIGHT

SHEET 1/1



	PROJECT			
	slide scanner for web			
TITLE	right camera frame Top channel			
	3/4"x3/4"x1/8" aluminum channel			
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			
DRAWN	Donald Plewes	5/14/2021	SCALE 1:2	WEIGHT
				SHEET 1/1



PROJECT

slide scanner for web

TITLE

**right camera frame
right standoff**

Delrin

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

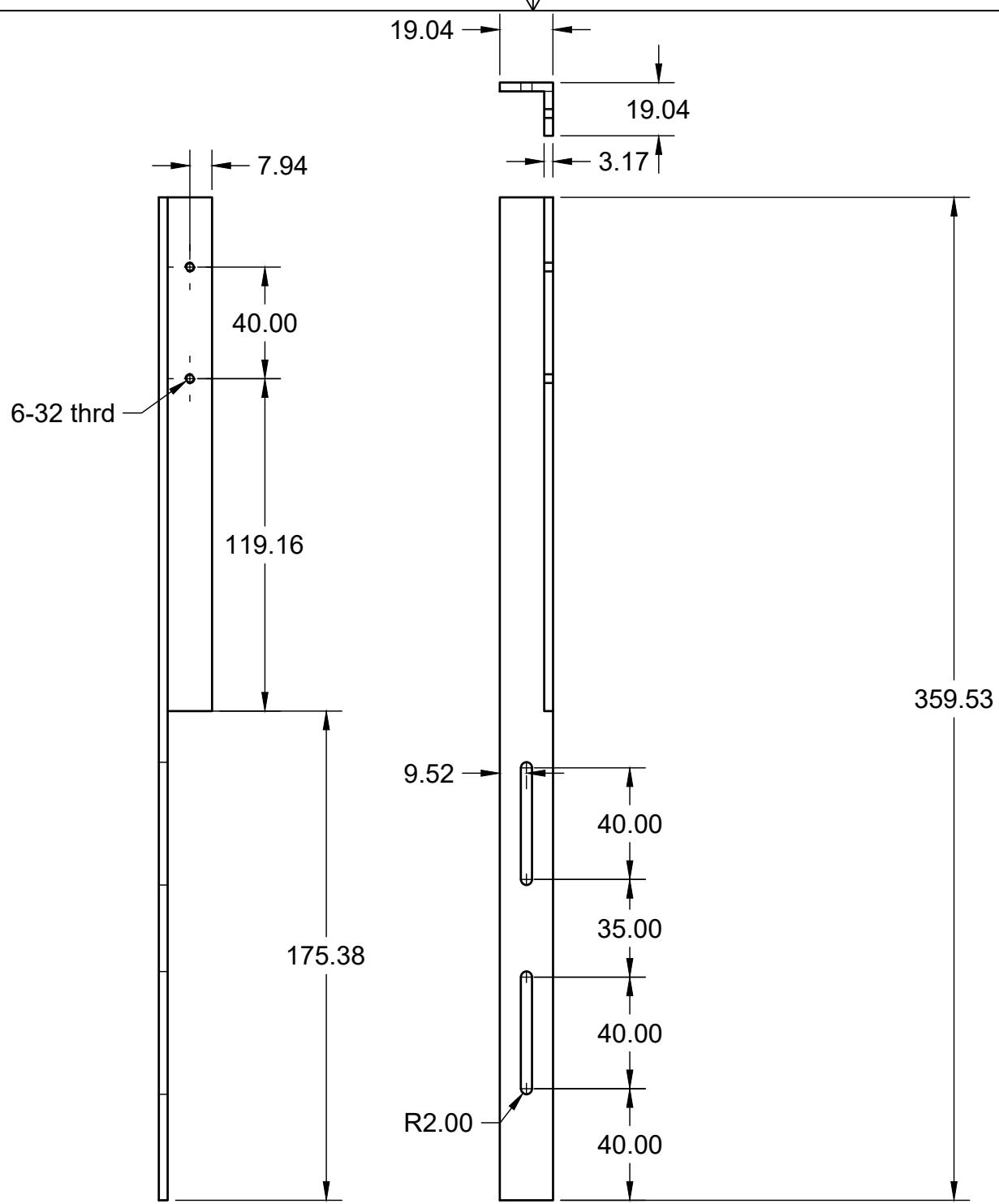
A

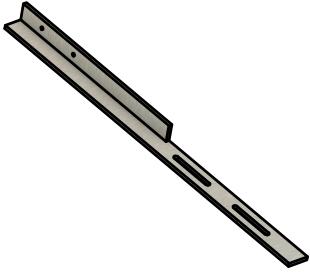
DRAWN Donald Plewes 5/17/2021

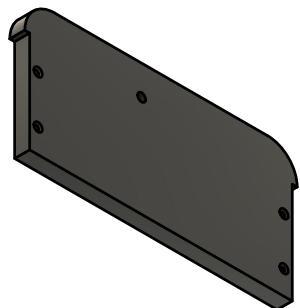
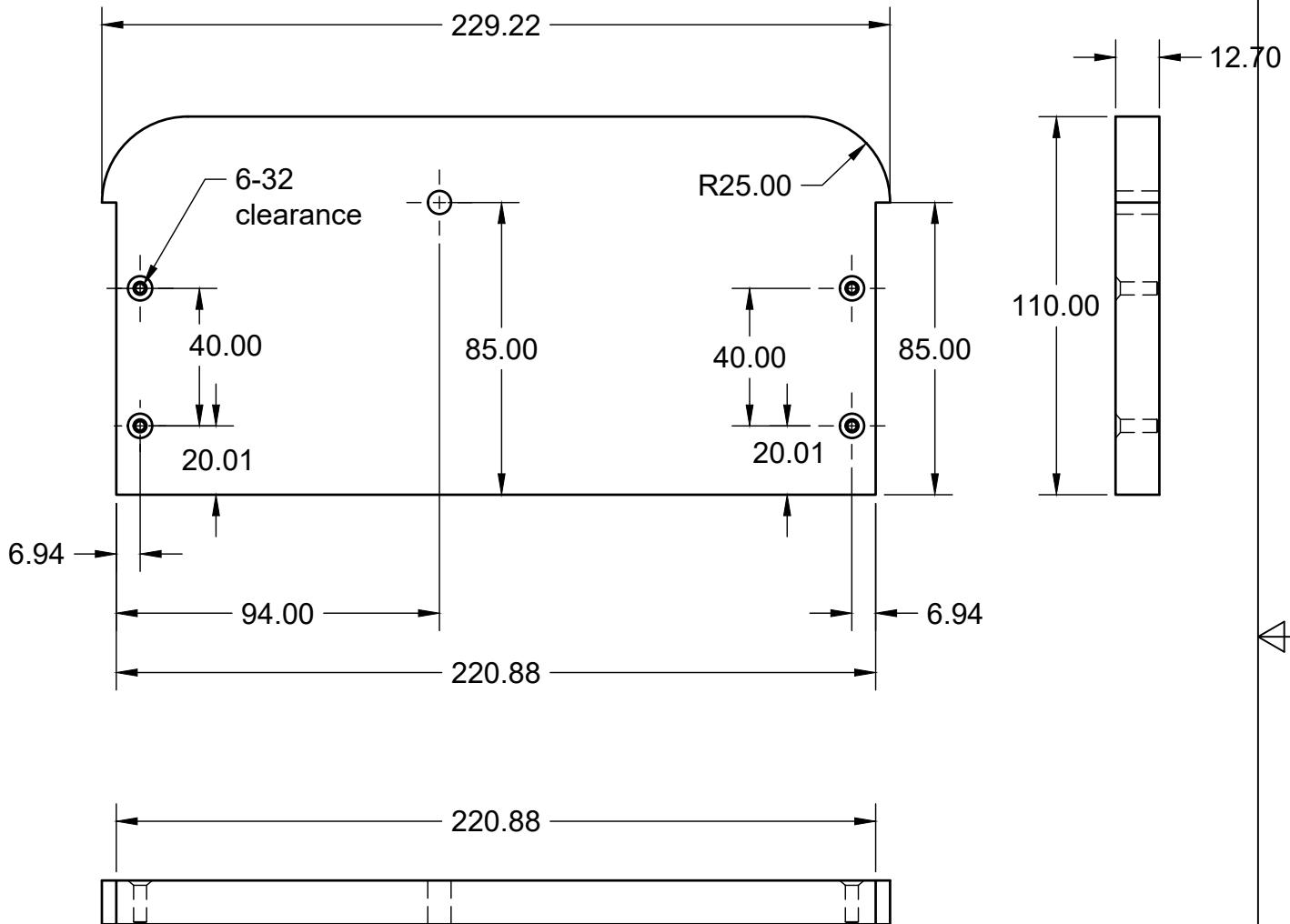
SCALE 1:1

WEIGHT

SHEET 1/1



	PROJECT slide scanner for web			
	TITLE left camera frame 3/4 x 3/4 x 1/8" angle channel Aluminum			
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			
DRAWN Donald Plewes 5/14/2021	SCALE 1:2	WEIGHT	SHEET 1/1	



PROJECT

slide scanner for web

TITLE

**camera plate
1/2" plywood**

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

A

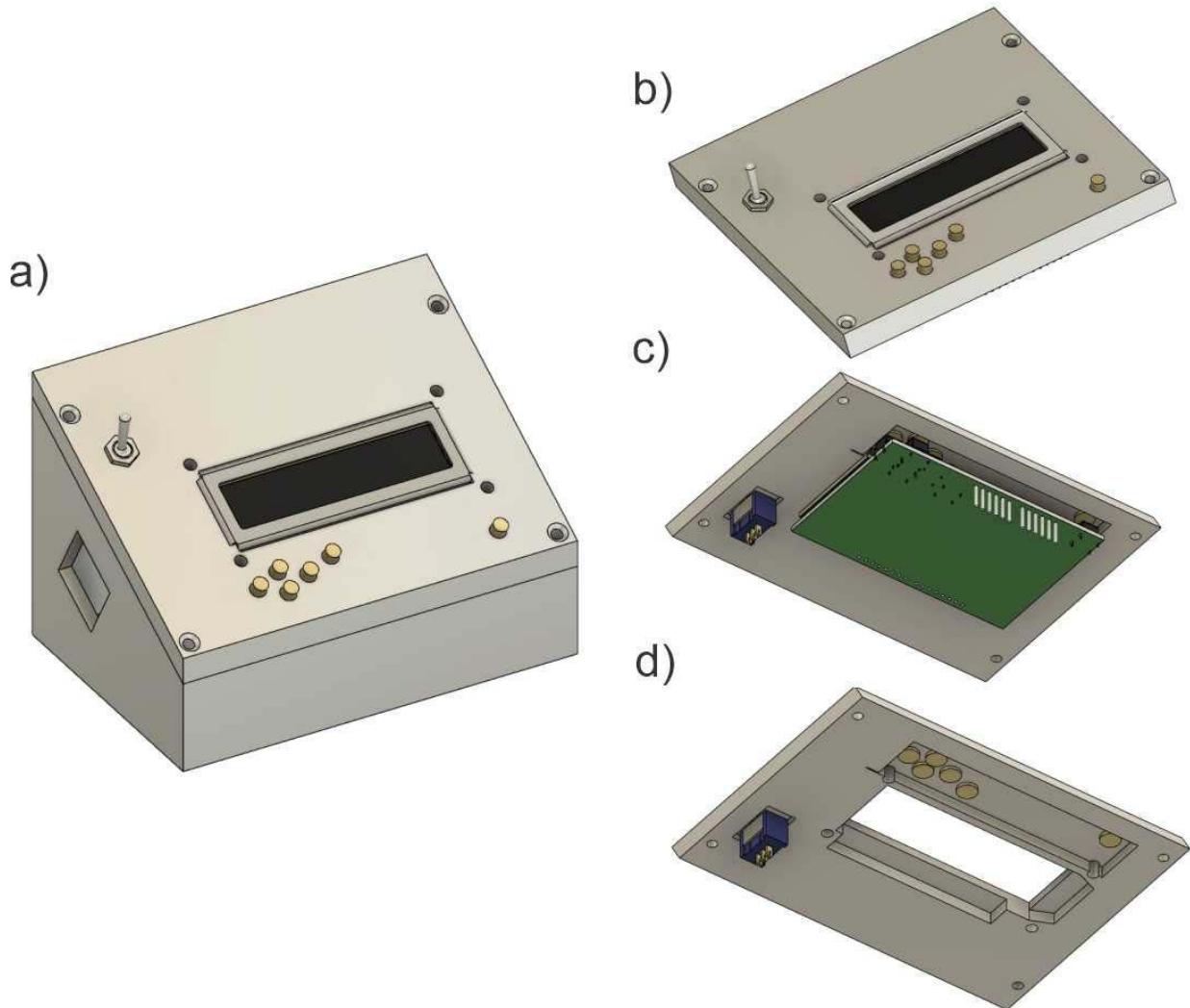
DRAWN Donald Plewes 5/17/2021

SCALE 1:2

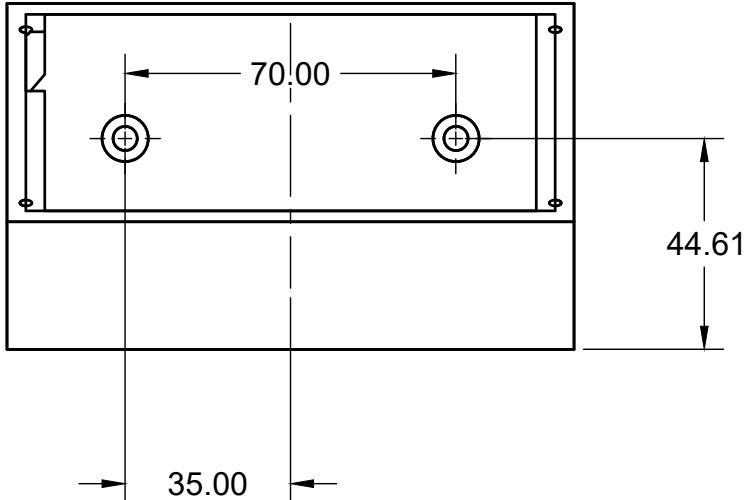
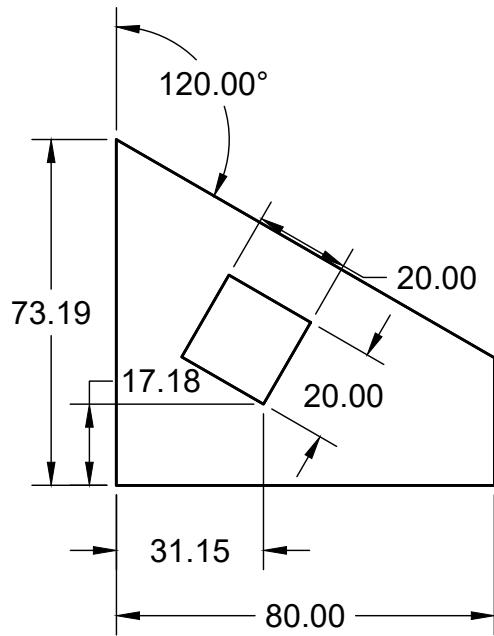
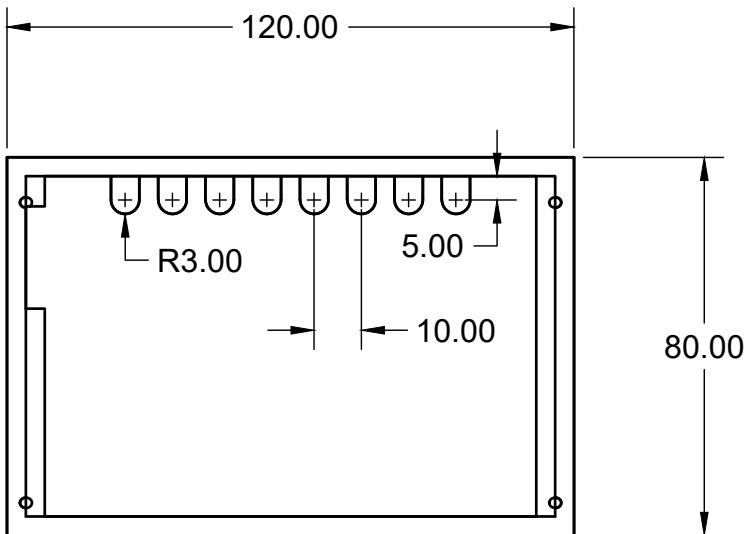
WEIGHT

SHEET 1/1

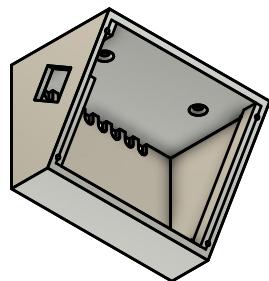
Arduino Assembly



This is the encloser for the Arduino Uno and the LCDDisplay on the front of the scanner. It is composed of two parts: the box and the top panel. The box and top panel are assembled with screws as shown in (a). The enclosure and the front panel were 3D printed. The top panel supports the LCDDisplay board (a & b) with screws. A toggle switch is used to turn on the power. The LCDDisplay shield plugs into a screw connector breakout shield which in turn plugs into the Arduino Uno. The three board are suspended from the top panel. The underside of the top panel is shown in (c) with the bottom of the LCDDisplay board. To drive the buttons on the LCDDisplay board, small brass buttons (b & d) are machined which fit into holes for the front panel and align with LCDDisplay board.



This is a complex part and only a few representative dimensions are shown. This part is best made by 3D printing. The .stl file can be obtained from the Fusion 360 model.



PROJECT

slide scanner for web

TITLE

**electronics enclosure
3D printed**

Take STL file from Fusion 360 Model

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

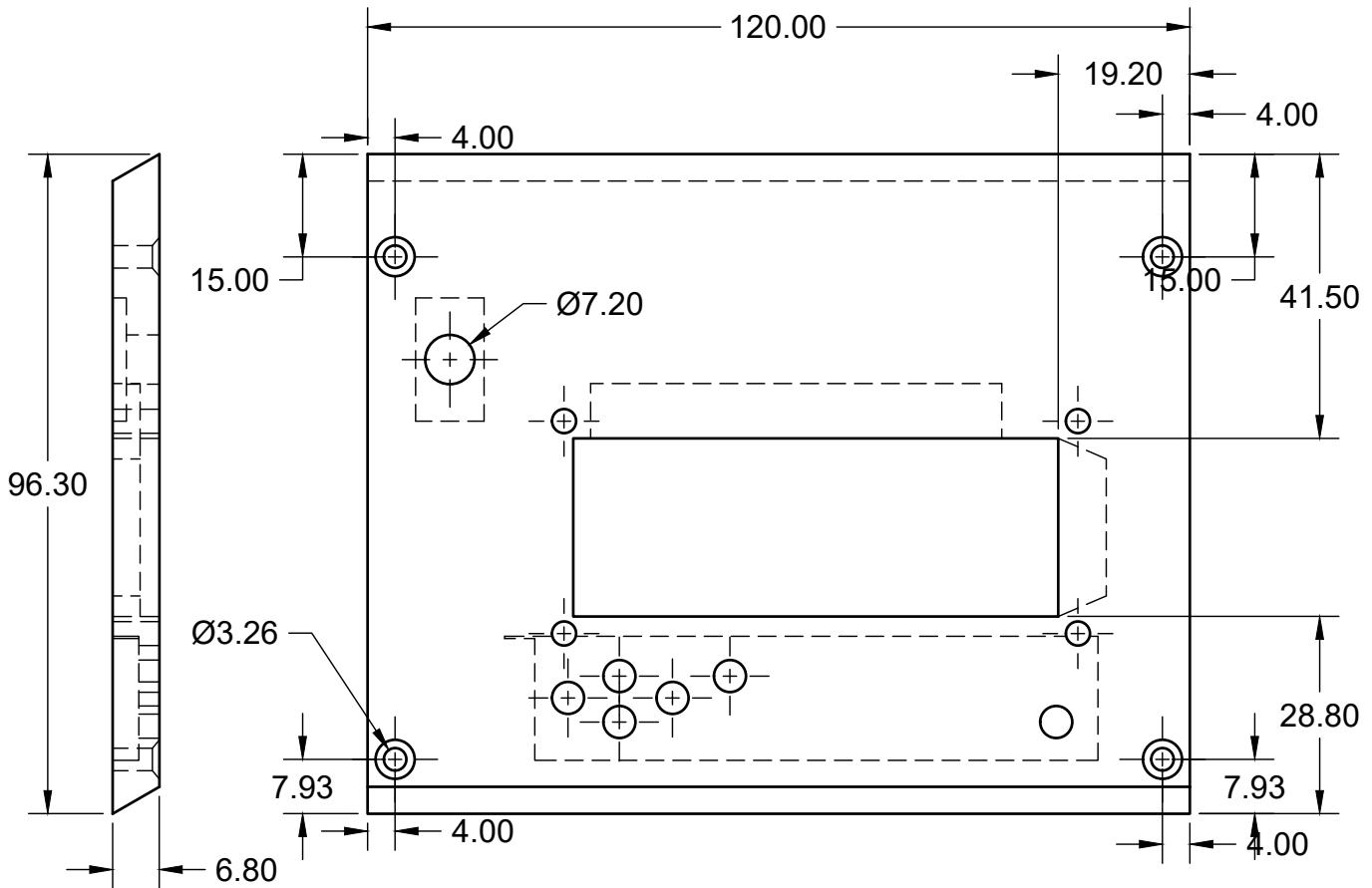
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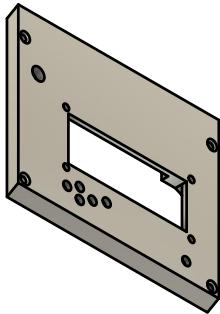
SCALE 1:1

WEIGHT

SHEET 1/1



This is a complex part which many recesses and carefully positioned holes. Only a few dimensions are given here. This part and the enclosure to which this is mounted should be 3D printed. The STL files can be obtained from the Fusion 360 model.



PROJECT

slide scanner for web

TITLE

**Front Panel for enclosure
3D printed**

White PLA

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

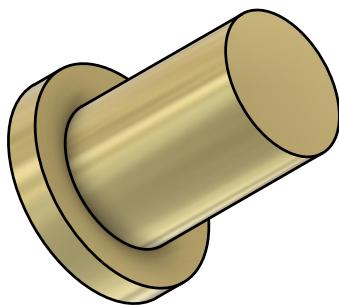
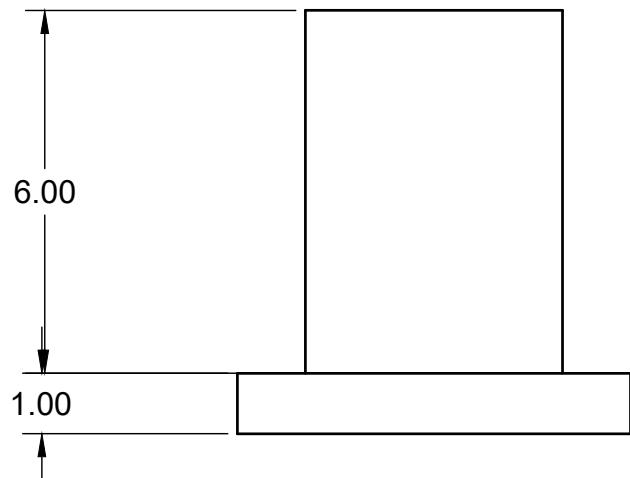
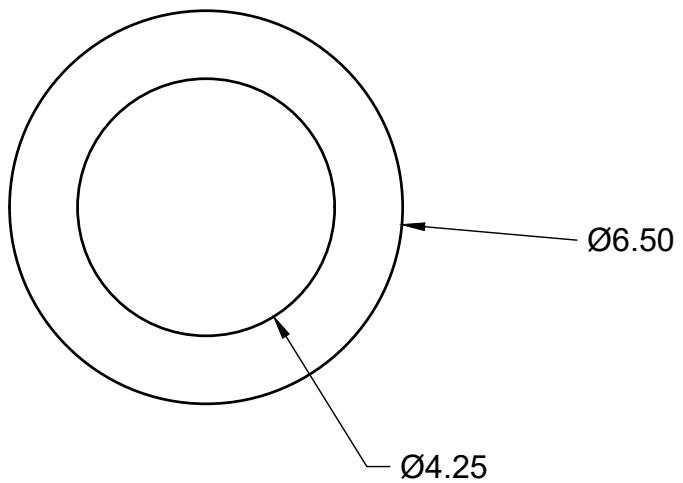
A

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SCALE 1:1.1

WEIGHT

SHEET 1/1



PROJECT

slide scanner for web

TITLE

**Button for front panel
A total of 6 are needed**

Brass

APPROVED

SIZE

CODE

DWG NO

REV

CHECKED

A

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SCALE 8:1

WEIGHT

SHEET 1/1