

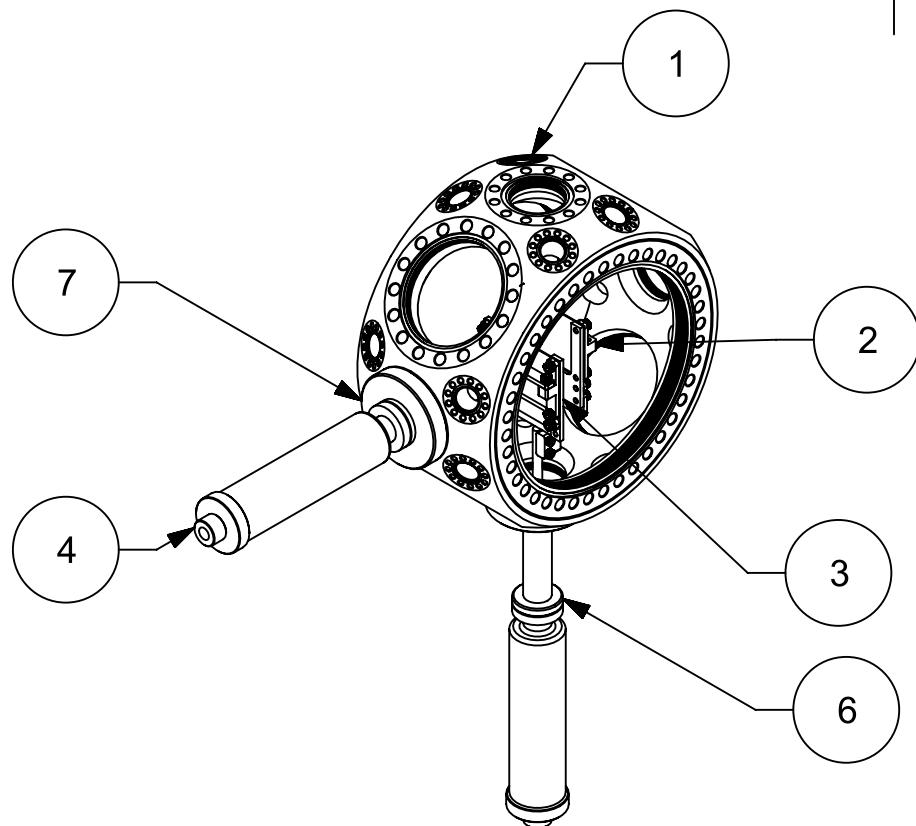
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Item	Description	Link	Cost	Qty	
#8-32 1/4" Stainless Steel Socket Head Screw	Plate Fastening Screws	<a href="https://www.mcmaster.com/9219">https://www.mcmaster.com/9219</a>	\$ 7.21	1	
#6-32 1/2" Stainless Steel Socket Head Screw	Linear Actuator Screws	<a href="https://www.mcmaster.com/9219">https://www.mcmaster.com/9219</a>	\$ 7.62	1	
MDC Precision Linear Motion Feedthrough	Radius Adjustment Linear Actuator	<a href="https://www.mdcprecision.com/p">https://www.mdcprecision.com/p</a>	\$ 996.00	1	*Already in lab
MDC Precision Linear Motion Feedthrough	Linear Sweeping Actuator	<a href="https://www.mdcprecision.com/p">https://www.mdcprecision.com/p</a>	??	1	*Need to select motorized option
2.75" Flange Adapter (Reduce to 1.33" CF)	Linear actuator flange adapter	<a href="https://www.kimballphysics.com/">https://www.kimballphysics.com/</a>	\$ 288.00	2	*At least one already in lab
		<a href="#">PTFE-Coated Fiberglass Fabric Sheet</a>	\$ 34.33	1	
Film Plate	TOBE MACHINED	Drawing in Fabrication Package		2	
Film Clamp	TOBE MACHINED	Drawing in Fabrication Package		2	
Mesh Clamp	TOBE MACHINED	Drawing in Fabrication Package		4	
Vertical Connector	TOBE MACHINED	Drawing in Fabrication Package		1	
Horizontal Connector	TOBE MACHINED	Drawing in Fabrication Package		1	

1 2 3 4 5 6

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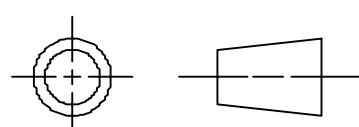


PC NO	PART NAME	QTY
7	CF 1_33 TO CF 2_75 ADAPTER	2
6	T_BAR	1
5	DFS KEEPOUT	1
4	MDC LINEAR PASSTHROUGH	2
3	HORIZONTAL ACTUATION ASSEMBLY	1
2	VERTICAL ACTUATION ASSEMBLY	1
1	VACUUM CHAMBER	1
	PC NO	PART NAME

B



C



D

DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE SPECIFIED  
±0.5mm  
±1 deg

SURFACE FINISH BARE  
BREAK ALL CORNERS

FIRST ISSUED Spencer Hopkins

DRAWN BY Spencer Hopkins

CHECKED BY Jackson Buley

MATERIAL Al 6061-T6

## TEAM JOINT DISCOVERY

TITLE

Full Assembly

SIZE DRG NO. SHEET REV

A4 Film Bending Assembly\_dwg 2 A

SCALE 1:1 SHEET 1 OF 1

1

2

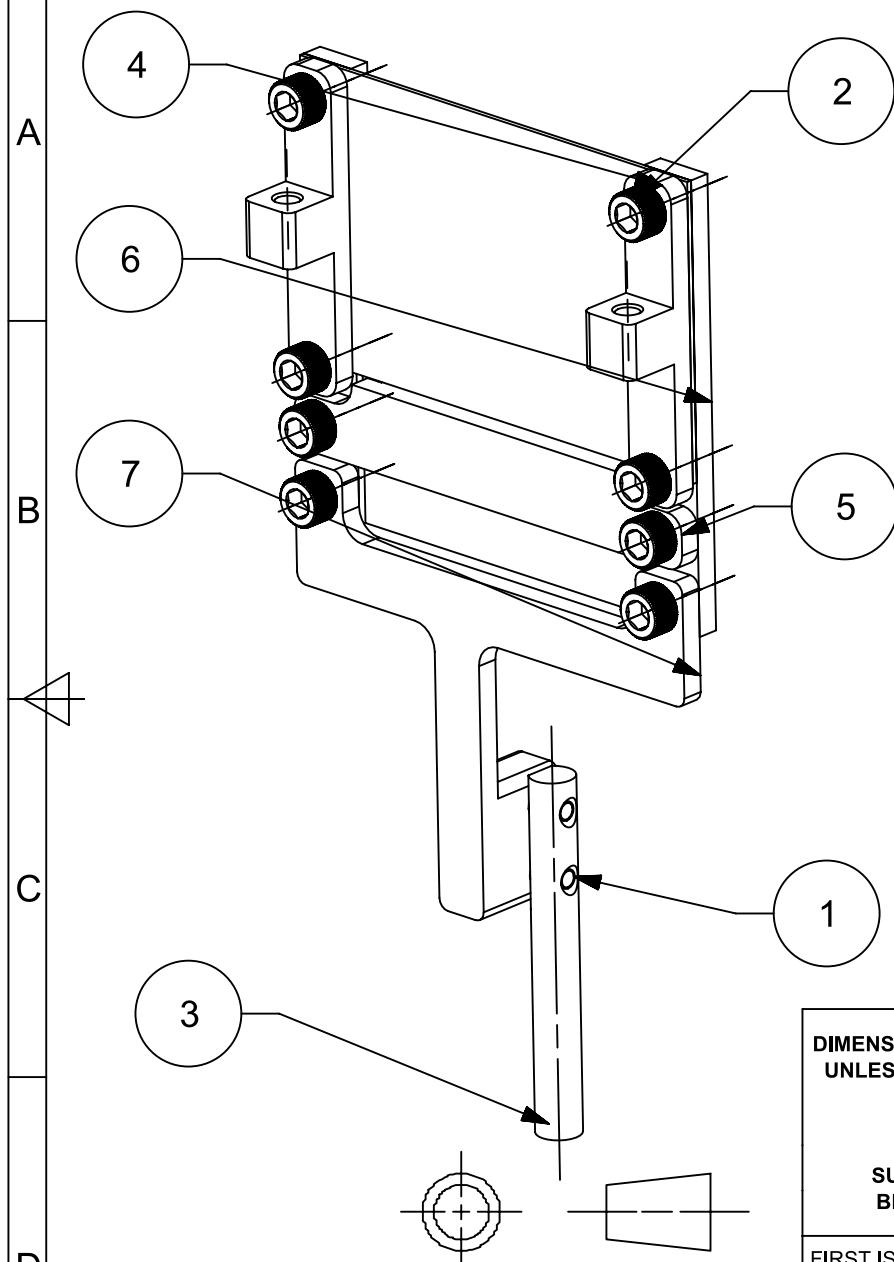
3

4

5

A4

1 2 3 4 5 6



PC NO	PART NAME	QTY
8	MESH	1
7	VERTICAL MOUNT	1
6	FILM PLATE	1
5	FILM CLAMP	1
4	MESH CLAMP	2
3	VERTICAL ACTUATOR TIP	1
2	6_32 UNC 1_2IN 18_8 SCREW 92196A190	8
1	8_32 UNC 1_4IN 18_8 SCREW 92196A148	2

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±1 deg

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## TEAM JOINT DISCOVERY

TITLE

Vertical Actuation Assembly

SIZE

DRG NO.

A4

Vertical Actuation Assembly\_dwg 2

SHEET REV

A

SCALE 1:1

SHEET 1 OF 1

1

2

3

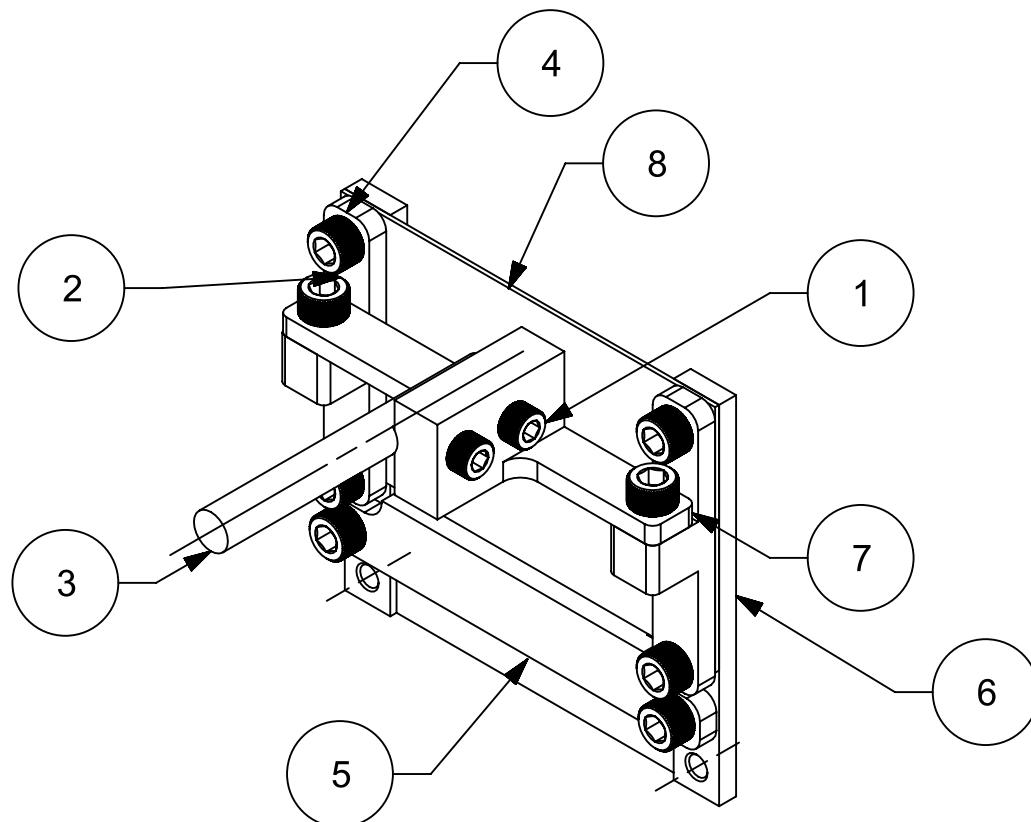
4

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A4

1 2 3 4 5 6

A

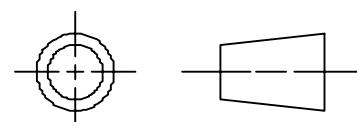


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C

D



PC NO	PART NAME	QTY
2	6_32 UNC 1_2IN 18_8 SCREW 92196A190	8
1	8_32 UNC 1_4IN 18_8 SCREW 92196A148	2

DIMENSIONS ARE IN MILLIMETERS  
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 $\pm 0.5\text{mm}$   
 $\pm 1 \text{ deg}$

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## TEAM JOINT DISCOVERY

TITLE

Horizontal Actuation Assembly

SIZE

DRG NO.

SHEET REV

A4

Horizontal Actuation Assembly\_dwg 4

A

SCALE 1:1

SHEET 1 OF 1

1

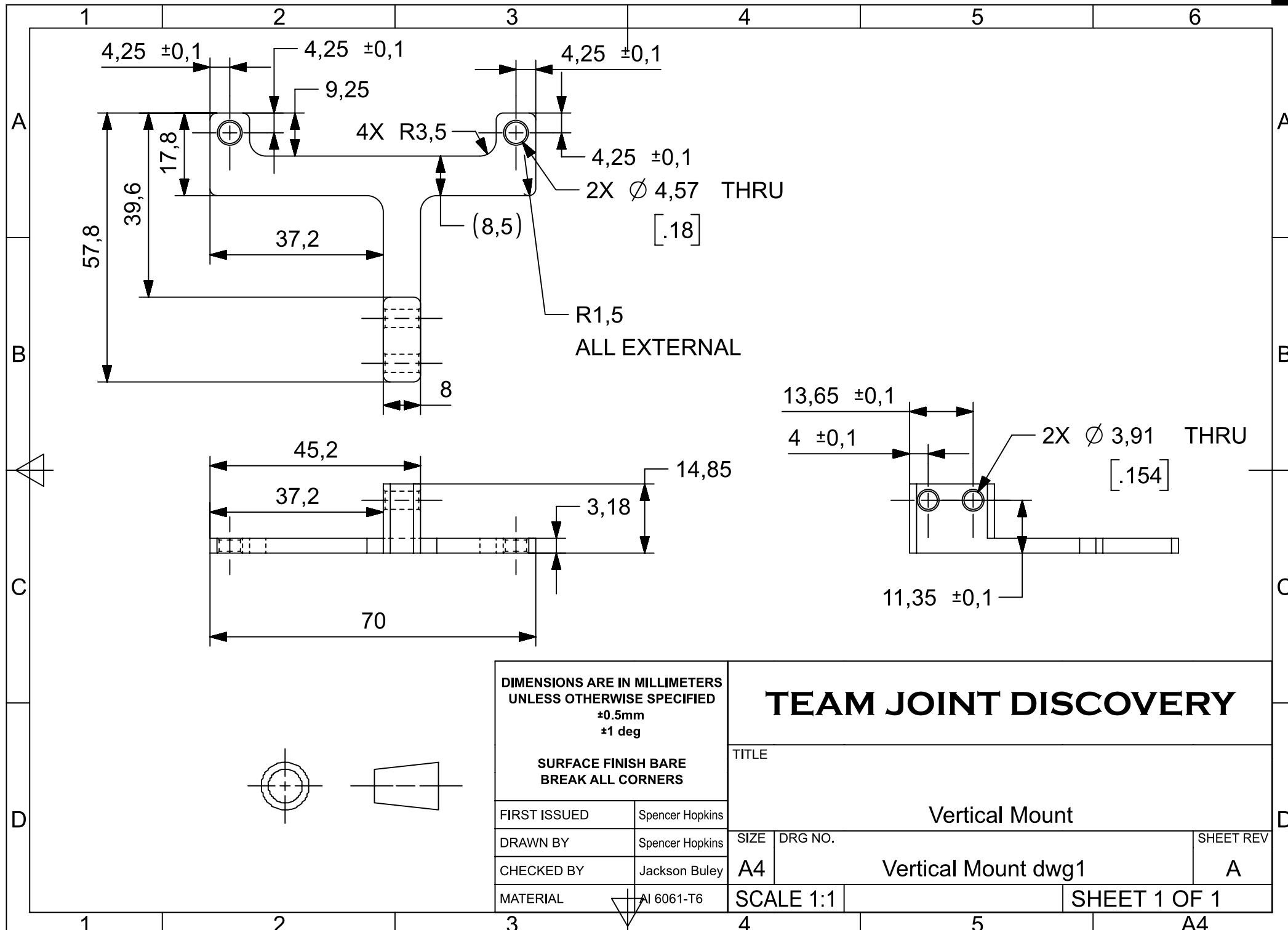
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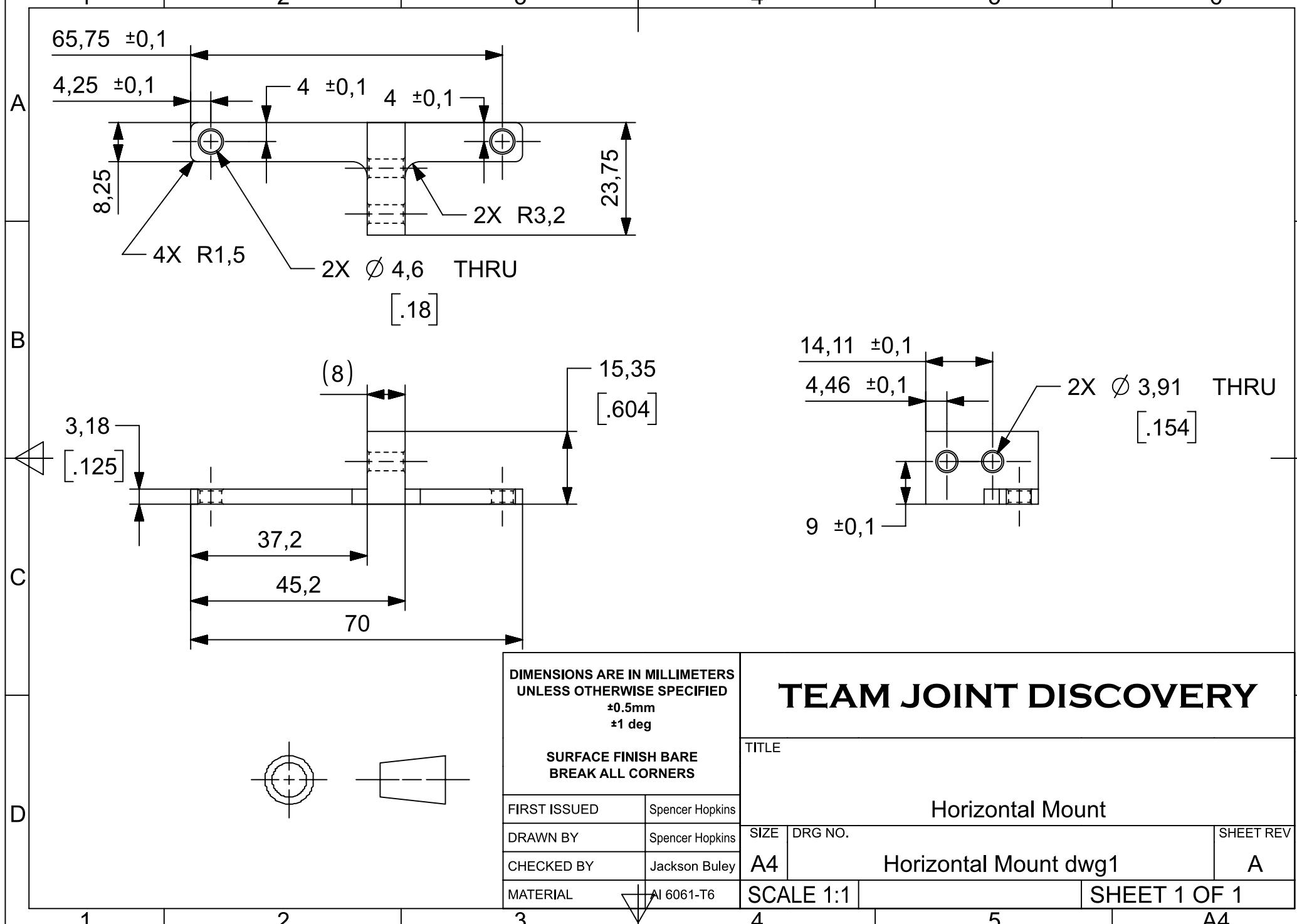
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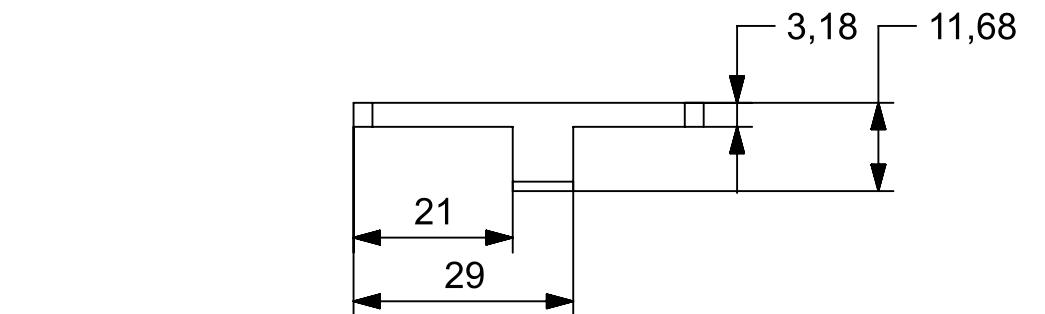
A4



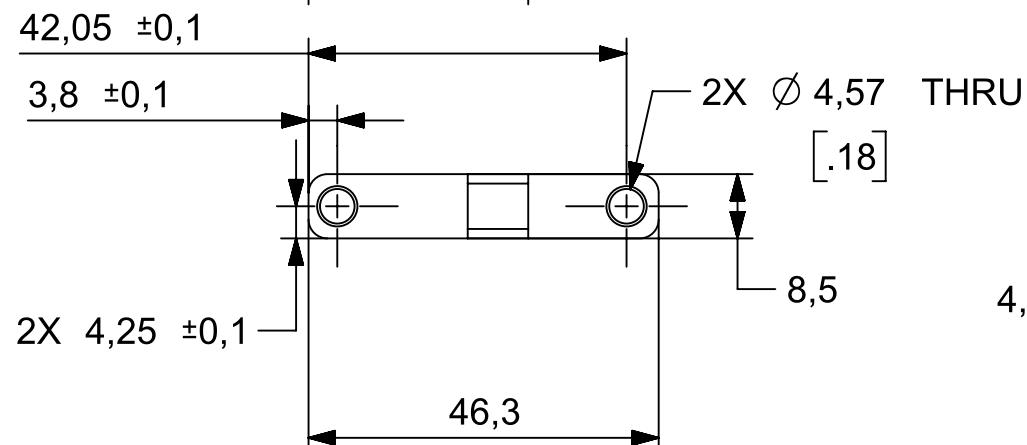
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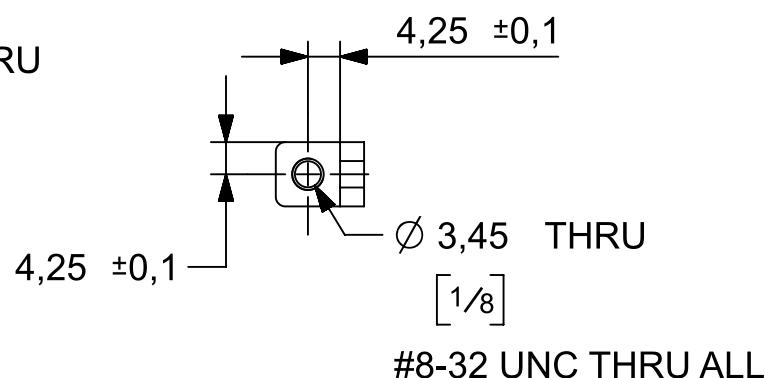
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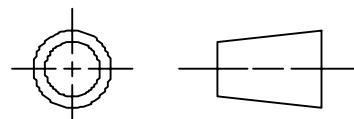
B



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D



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MATERIAL Al 6061-T6

## TEAM JOINT DISCOVERY

TITLE

Mesh Clamp

SIZE DRG NO.

A4

SHEET REV

Mesh Clamp dwg1

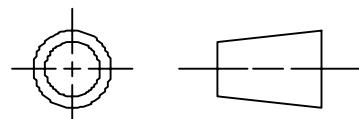
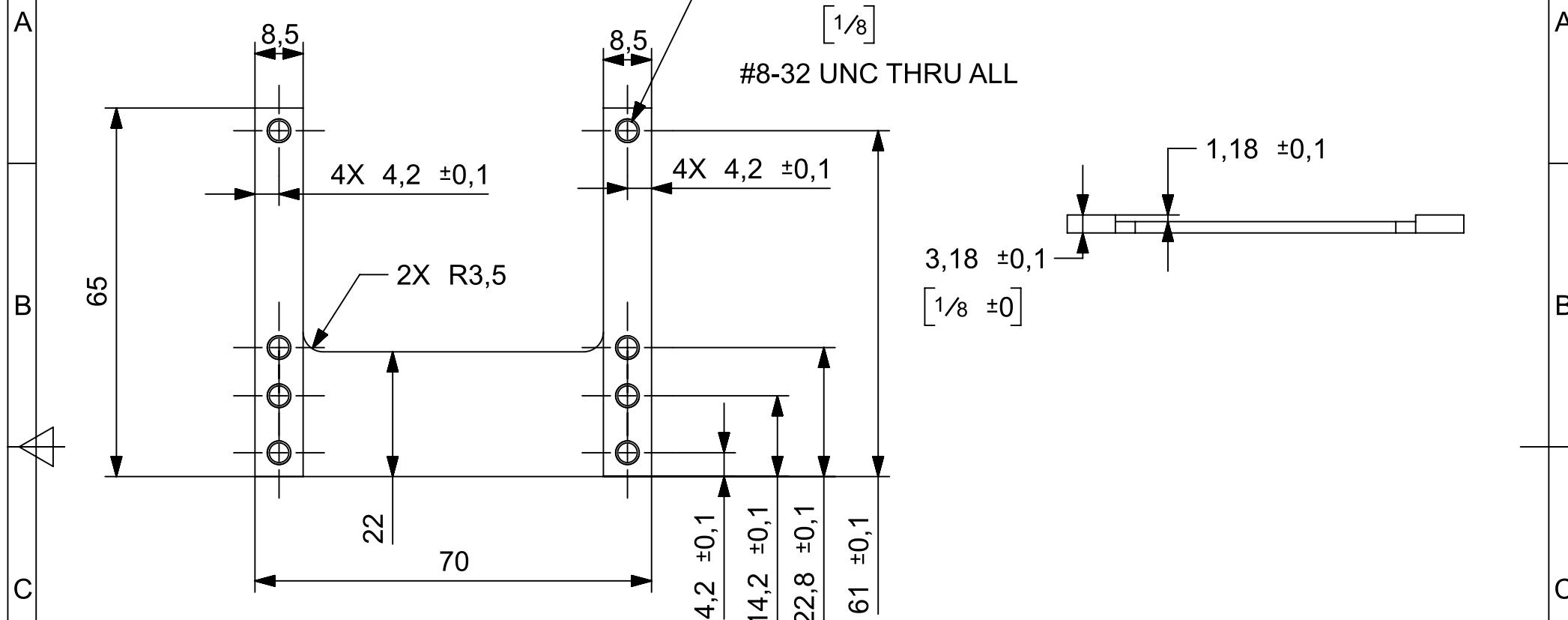
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SCALE 1:1

SHEET 1 OF 1

1                    2                    3                    4                    5                    6

TOP



**DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE SPECIFIED**

**SURFACE FINISH BARE  
BREAK ALL CORNERS**

**FIRST ISSUED** Spencer Hopkins

DRAWN BY Spencer Hopkins

2017-01-01 00:00:00 2017-01-01 00:00:00

CHECKED BY Jackson Buley

## MATERIAL

# TEAM JOINT DISCOVERY

TIT

## Film Plate

SHEET REV

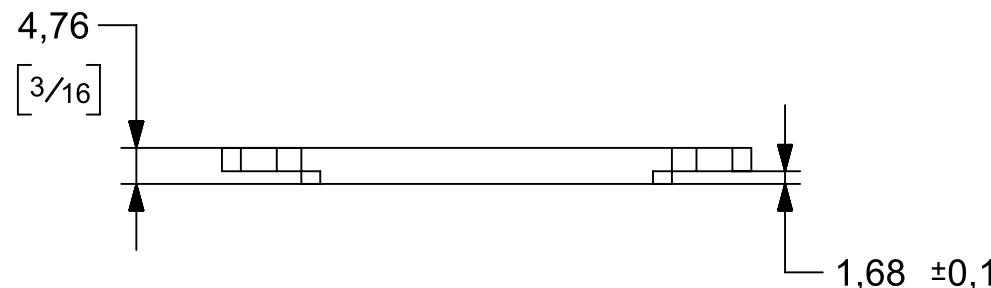
## Film Plate

18

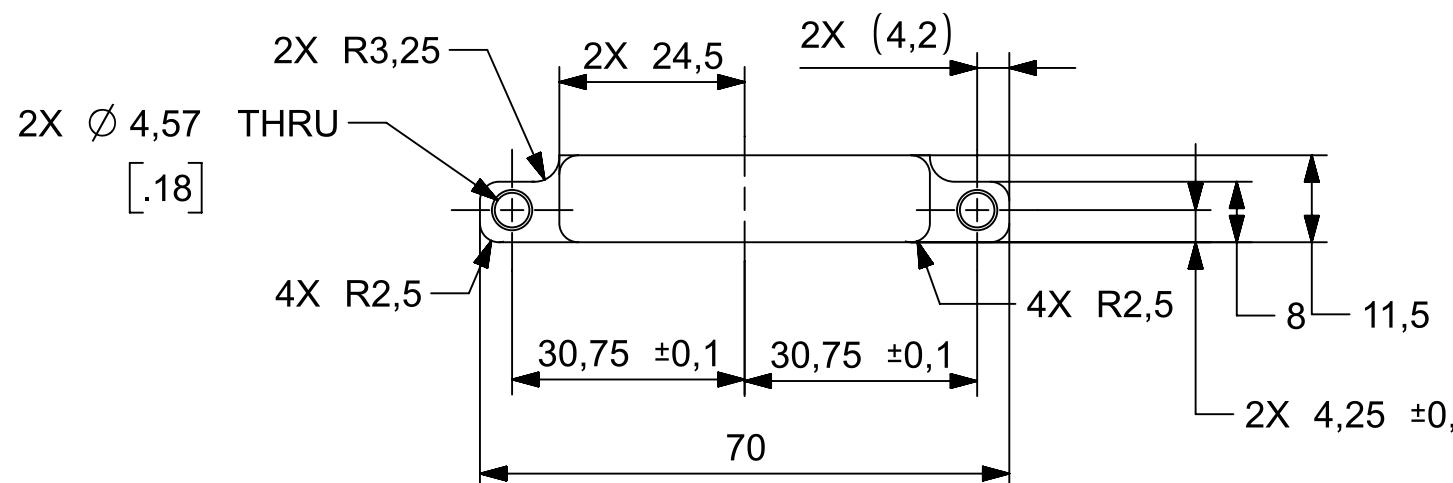
SHEET 1 OF 1

1                    2                    3                    4                    5                    A4

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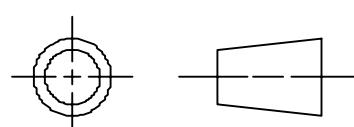


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## TEAM JOINT DISCOVERY

TITLE

Film Clamp

SHEET REV

A

Film Clamp dwg1

SCALE 1:1

SHEET 1 OF 1