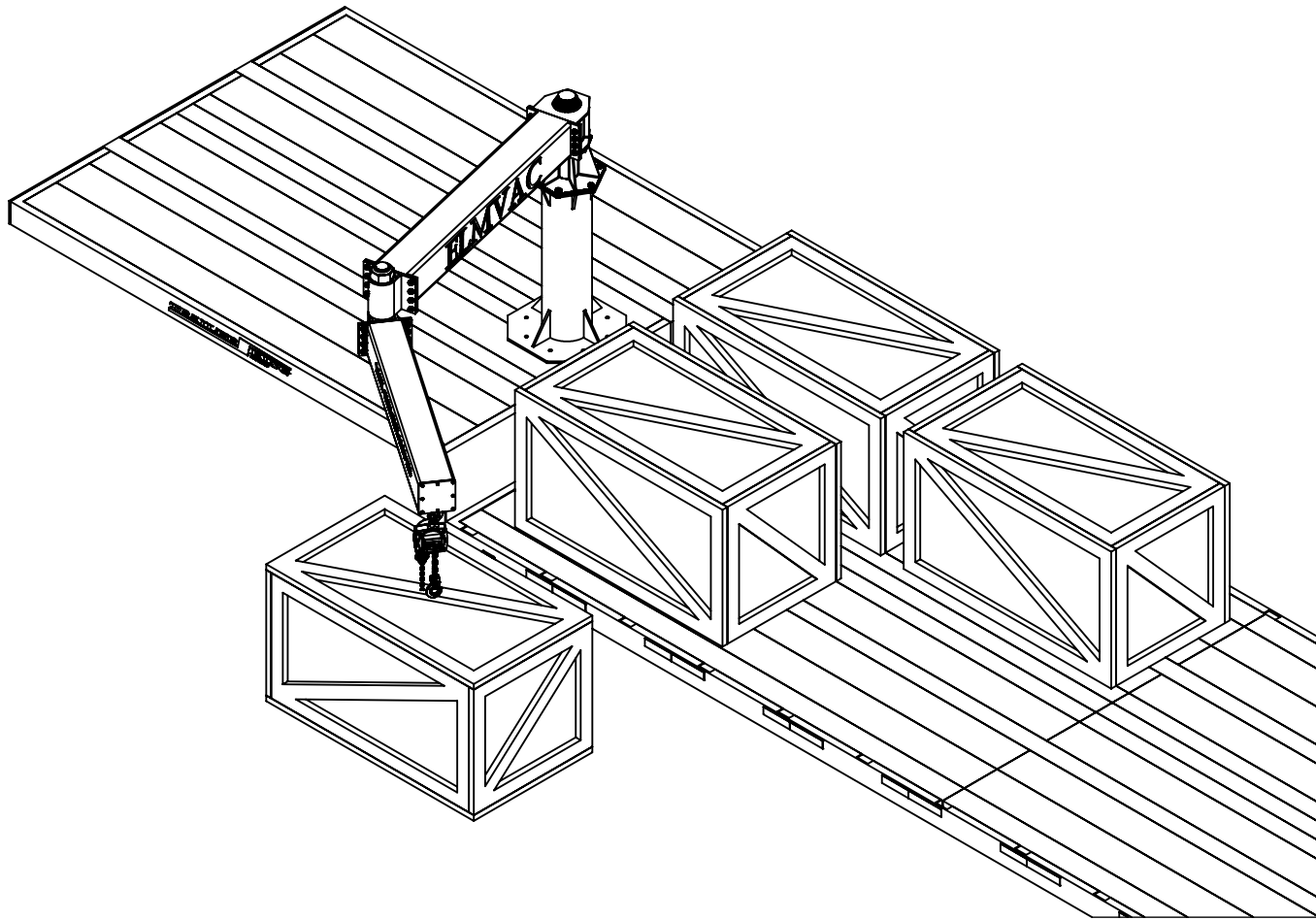




Dpt. of Research & Development

ELMVAC Inc.
101 Thornton Dr., Suite 3
Burlington VT, 05401

Unless Otherwise Specified
Dimensions in Inches

Tolerances

Two Places: ± 0.01
Three Places: ± 0.003
Angular: ± 1 Deg

Drawn By:
Ian Ammerman

Date:
4/21/2022

Material:

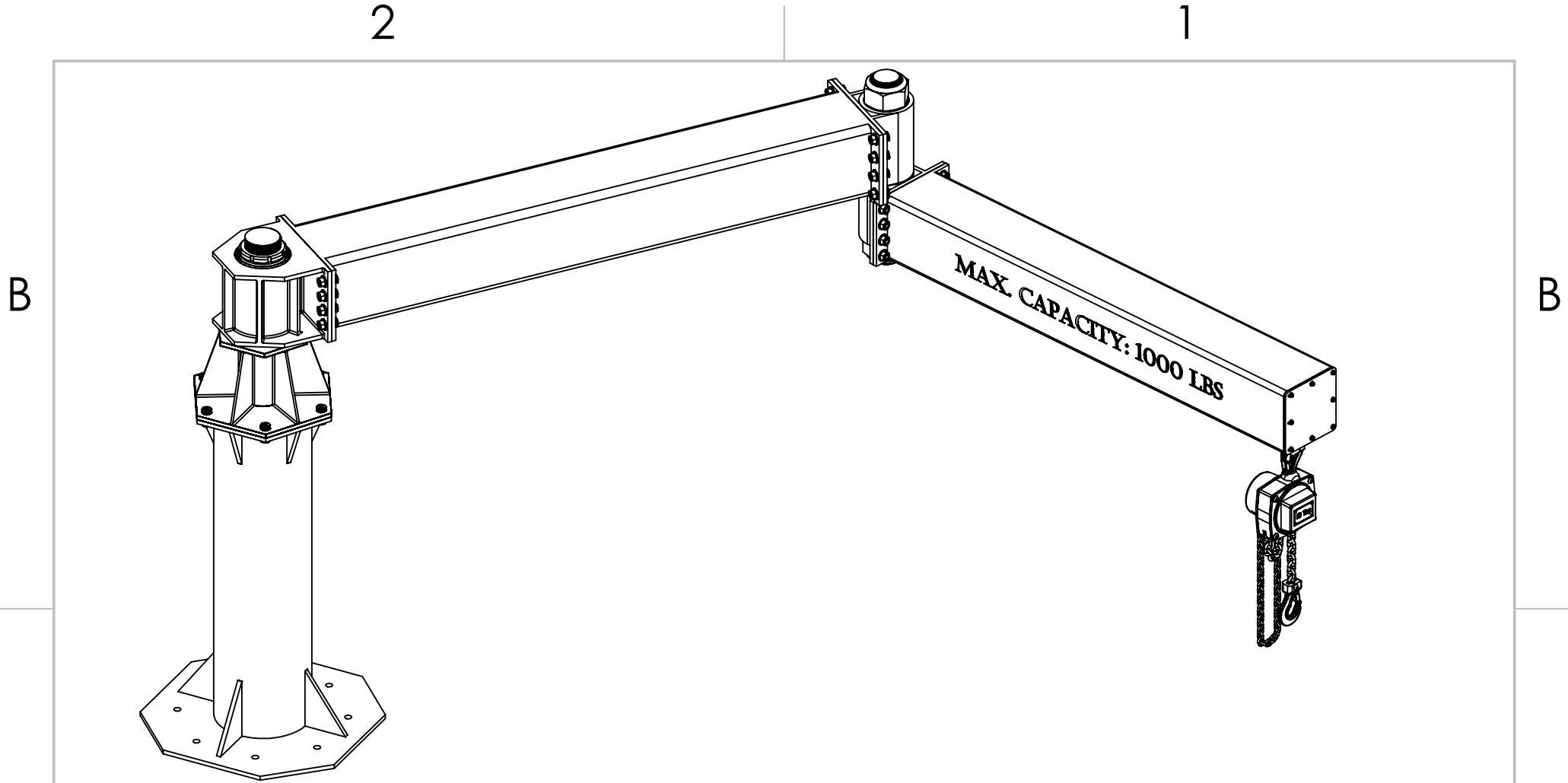
Title:
Unloading

File Name:
Full_ISO_Unloading

Size:
A

Scale:
1:40

Rev.



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Unless Otherwise Specified
Dimensions in Inches

Tolerances

Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
Ian Ammerman

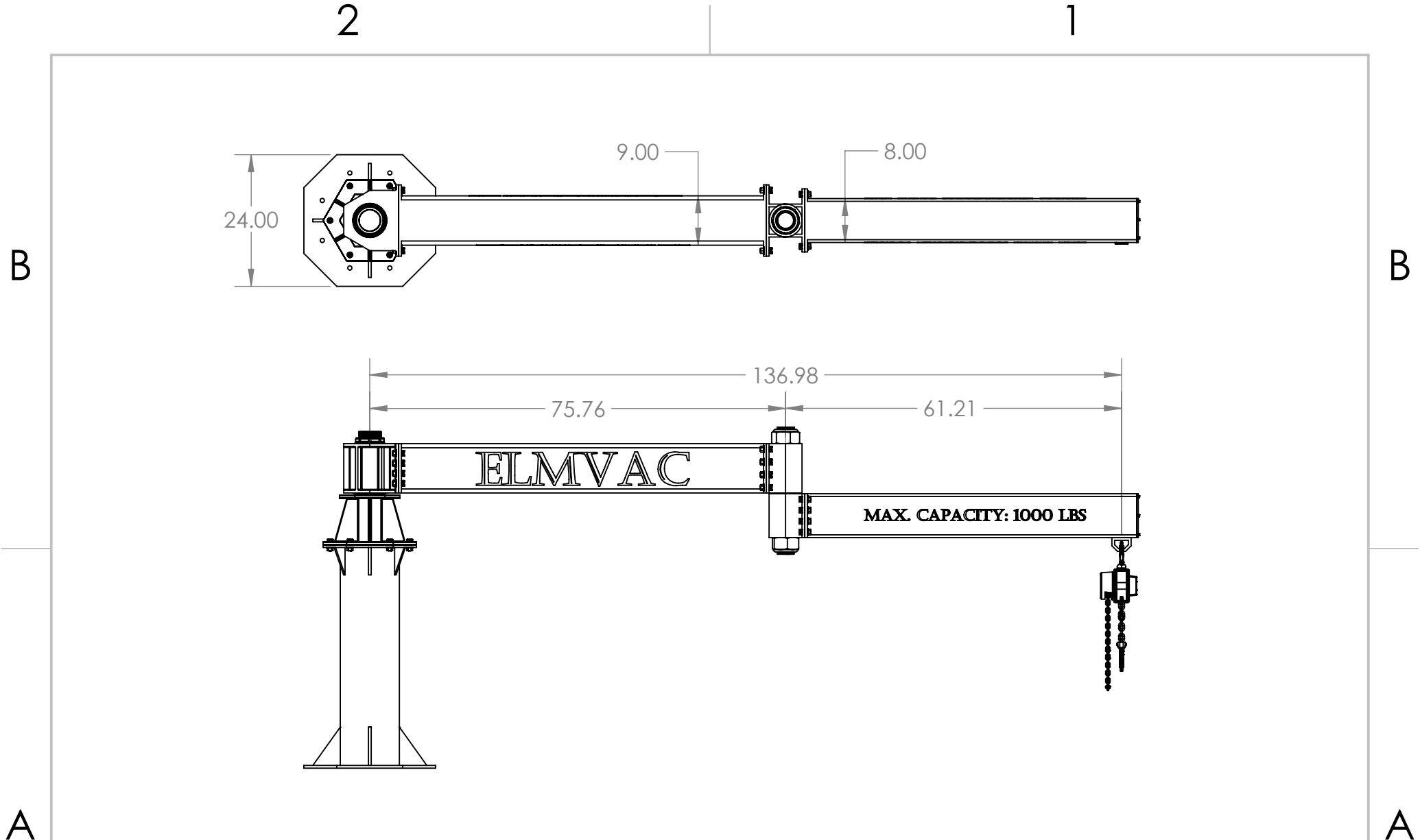
Date:
4/21/2022

Material:

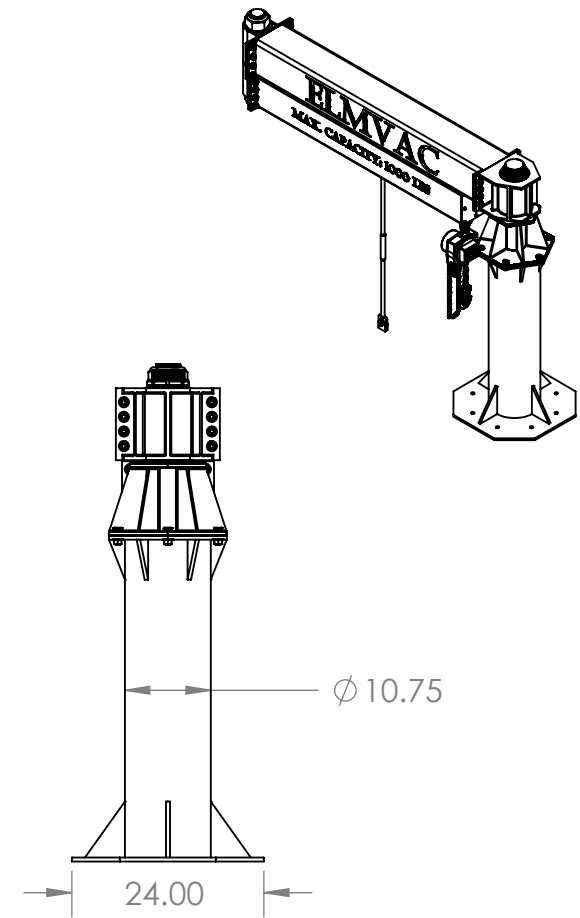
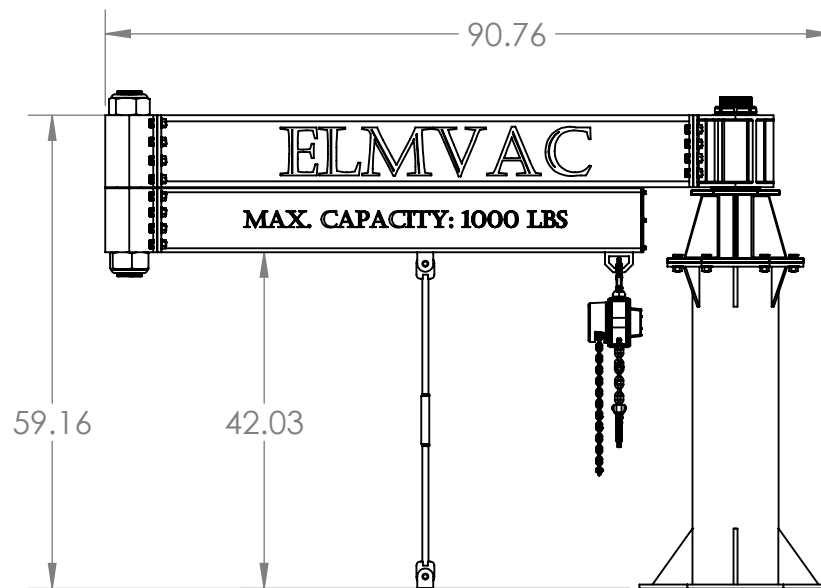
Title:
Crane - Isometric

File Name:
FullCrane_ISO

Size: **A** Scale: 1:16 Rev.



Dpt. of Research & Development ELMVAC Inc. 101 Thornton Dr., Suite 3 Burlington VT, 05401	Unless Otherwise Specified Dimensions in Inches <u>Tolerances</u> Two Places: +/- 0.01 Three Places: +/- 0.003 Angular: +/- 1 Deg		Drawn By: Ian Ammerman		Title: Loading Position	
			Date: 4/21/2022		File Name: CraneAssm>Loading	
			Material:		Size: A	Scale: 1:24
						Rev.



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Unless Otherwise Specified
 Dimensions in Inches

Tolerances
 Two Places: +/- 0.01
 Three Places: +/- 0.003
 Angular: +/- 1 Deg

Drawn By:
 Ian Ammerman

Date:
 4/21/2022

Material:

Title:
 Transport Position

File Name:
 FullCrane_Transport

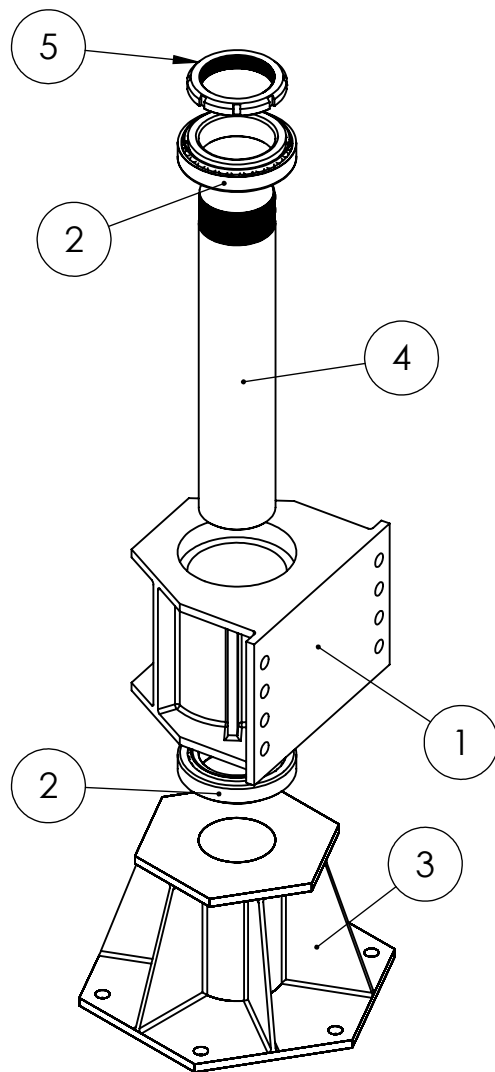
Size: **A** Scale: 1:24 Rev.

2

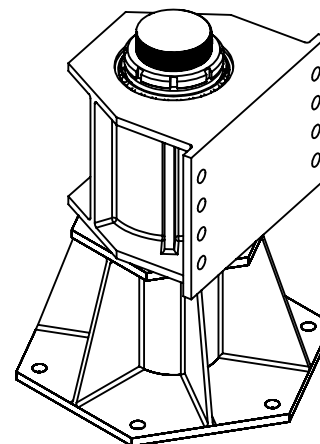
1

B

B



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PrimaryPivotHousing		1
2	5709K908	Tapered-Roller Bearing with Steel Ring	2
3	PrimaryPivotSupport		1
4	PrimaryPivotShaft		1
5	6343K31	Bearing Locknut	1



A

A

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ELMVAC Inc.
101 Thornton Dr., Suite 3
Burlington VT, 05401

Unless Otherwise Specified
Dimensions in Inches

Tolerances

Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
Ian Ammerman

Date:
4/21/2022

Material:

Title:
Primary Pivot Assembly

File Name:
PPAssm_Exp_Iso

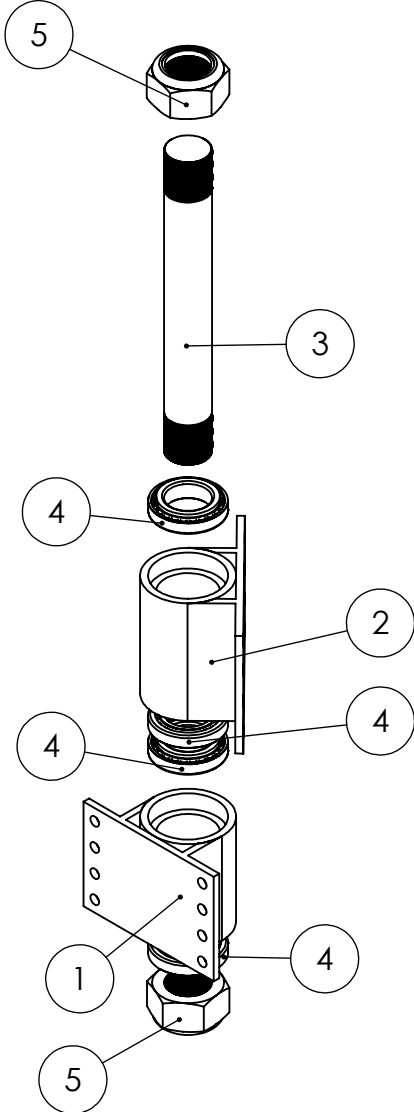
Size:
A

Scale:
1:10

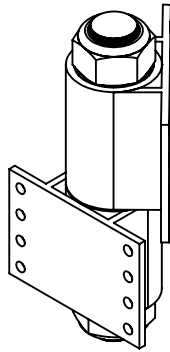
Rev.

2

1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CenterPivotCollar_wFlange		1
2	CenterPivotCollar_wFlange_Upper		1
3	5947K34_Rotary Shaft		1
4	5709K46	Tapered-Roller Bearing with Steel Ring	4
5	93126A210	Extra-Wide Thin Nylon-Insert Locknut	2



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Unless Otherwise Specified
Dimensions in Inches

Tolerances

Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

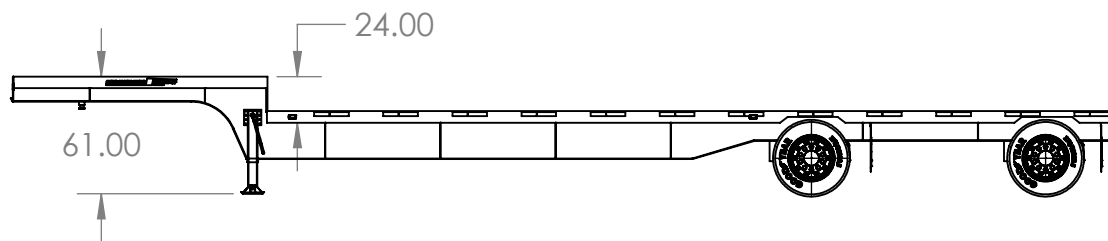
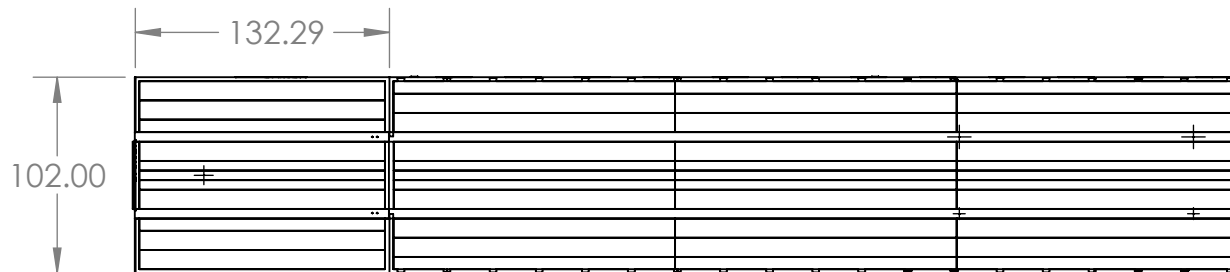
Drawn By: Ian Ammerman	Title: Articulation Sub-Assembly	
Date: 4/21/2022	File Name: ArtSub_Ex_ISO	
Material:	Size: A	Scale: 1:12
		Rev.

2

1

B

B



A

A

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Unless Otherwise Specified
Dimensions in Inches

Tolerances

Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
Ian Ammerman

Date:
4/21/2022

Material:

Title:
Dropdeck Trailer

File Name:
Dropdeck

Size:
A

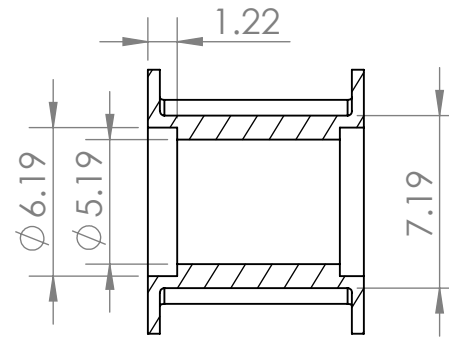
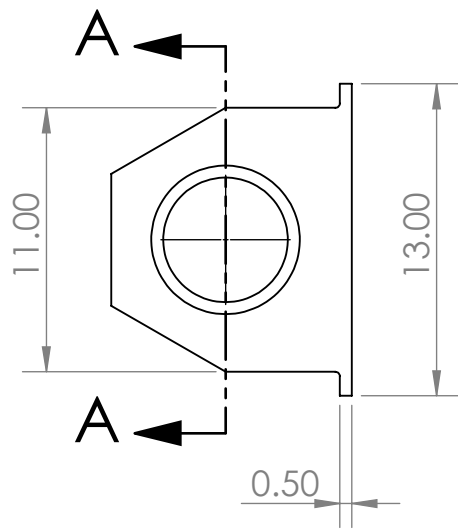
Scale:
1:100

Rev.

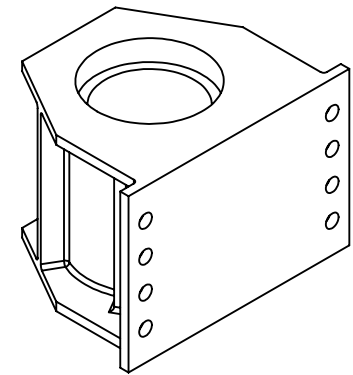
2

1

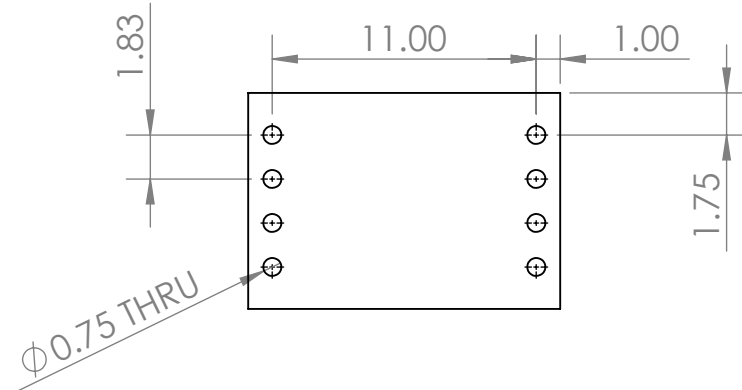
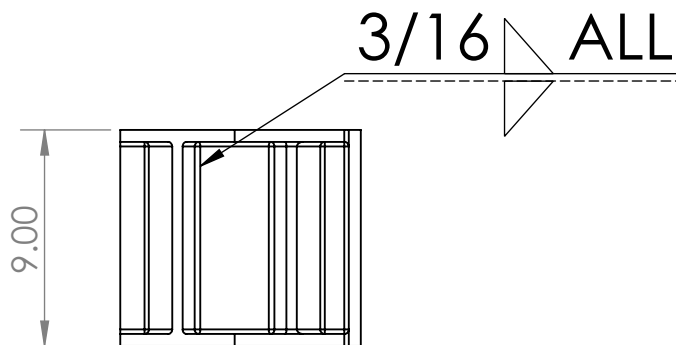
B



SECTION A-A



B



A

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Unless Otherwise Specified
Dimensions in Inches

Tolerances
Two Places: ± 0.01
Three Places: ± 0.003
Angular: ± 1 Deg

Drawn By:
Ian Ammerman

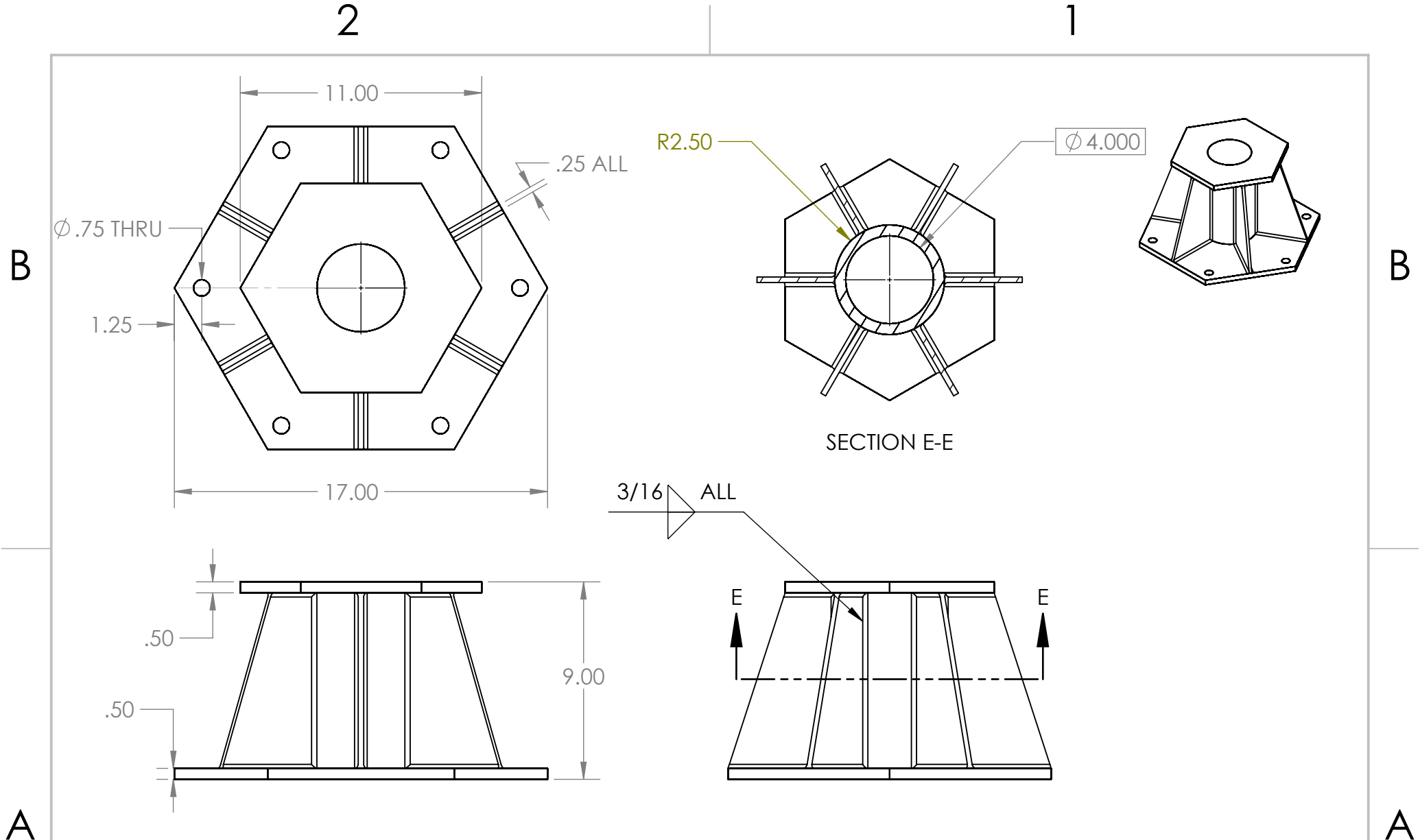
Date:
4/21/2022

Material:
AISI 1050 CD

Title:
Primary Pivot Housing

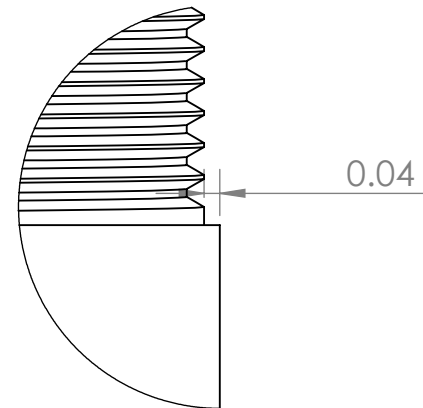
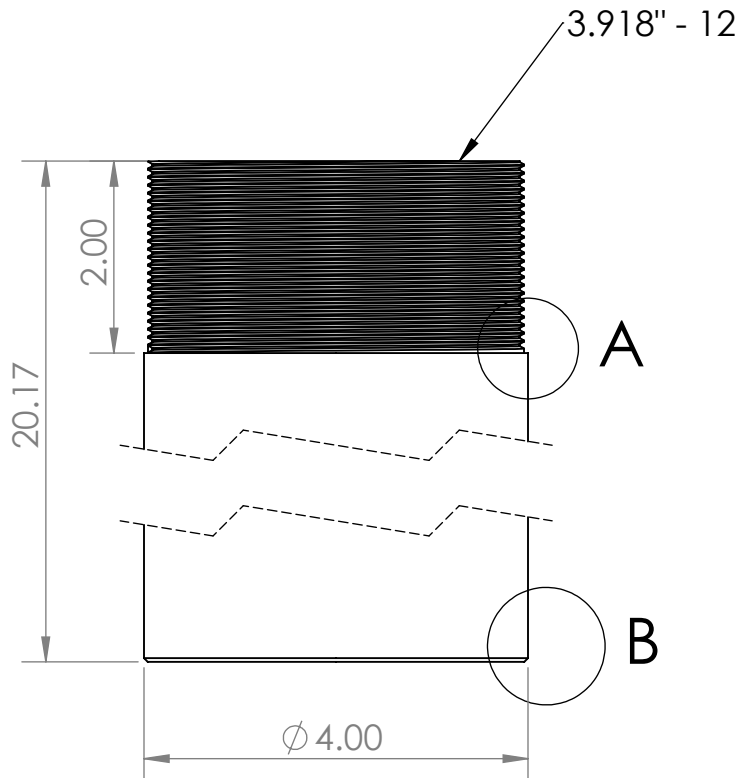
File Name:
PrimaryPivotHousing

Size: **A** Scale: 1:8 Rev.

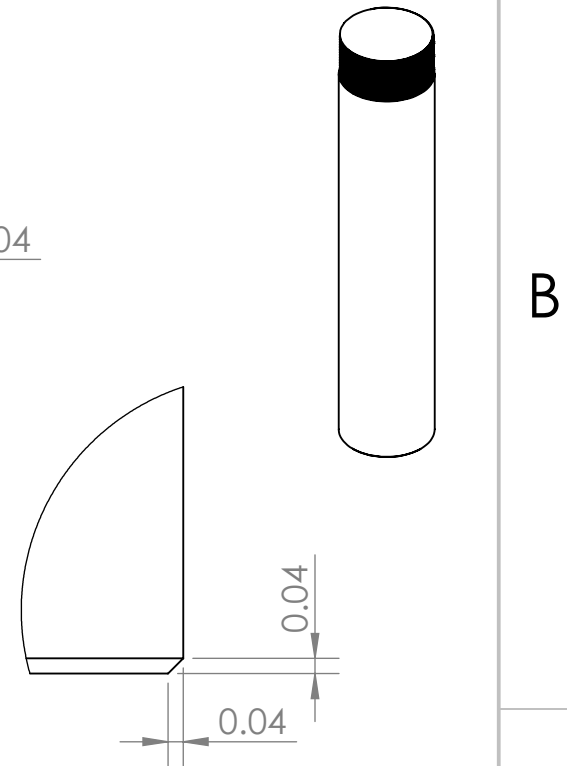


Dpt. of Research & Development ELMVAC Inc. 101 Thornton Dr., Suite 3 Burlington VT, 05401	Unless Otherwise Specified Dimensions in Inches <u>Tolerances</u> Two Places: +/- 0.01 Three Places: +/- 0.003 Angular: +/- 1 Deg	Drawn By: Ian Ammerman	Title: Primary Pivot Support		
		Date: 4/21/2022	File Name: PrimaryPivotSupport		
		Material: Plain Carbon Steel	Size: A	Scale: 1:6	Rev. 1

B



DETAIL A
SCALE 2 : 1



DETAIL B
SCALE 2 : 1

B

A

Dpt. of Research & Development
ELMVAC Inc.
101 Thornton Dr., Suite 3
Burlington VT, 05401

Unless Otherwise Specified
Dimensions in Inches

Tolerances
Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
Ian Ammerman

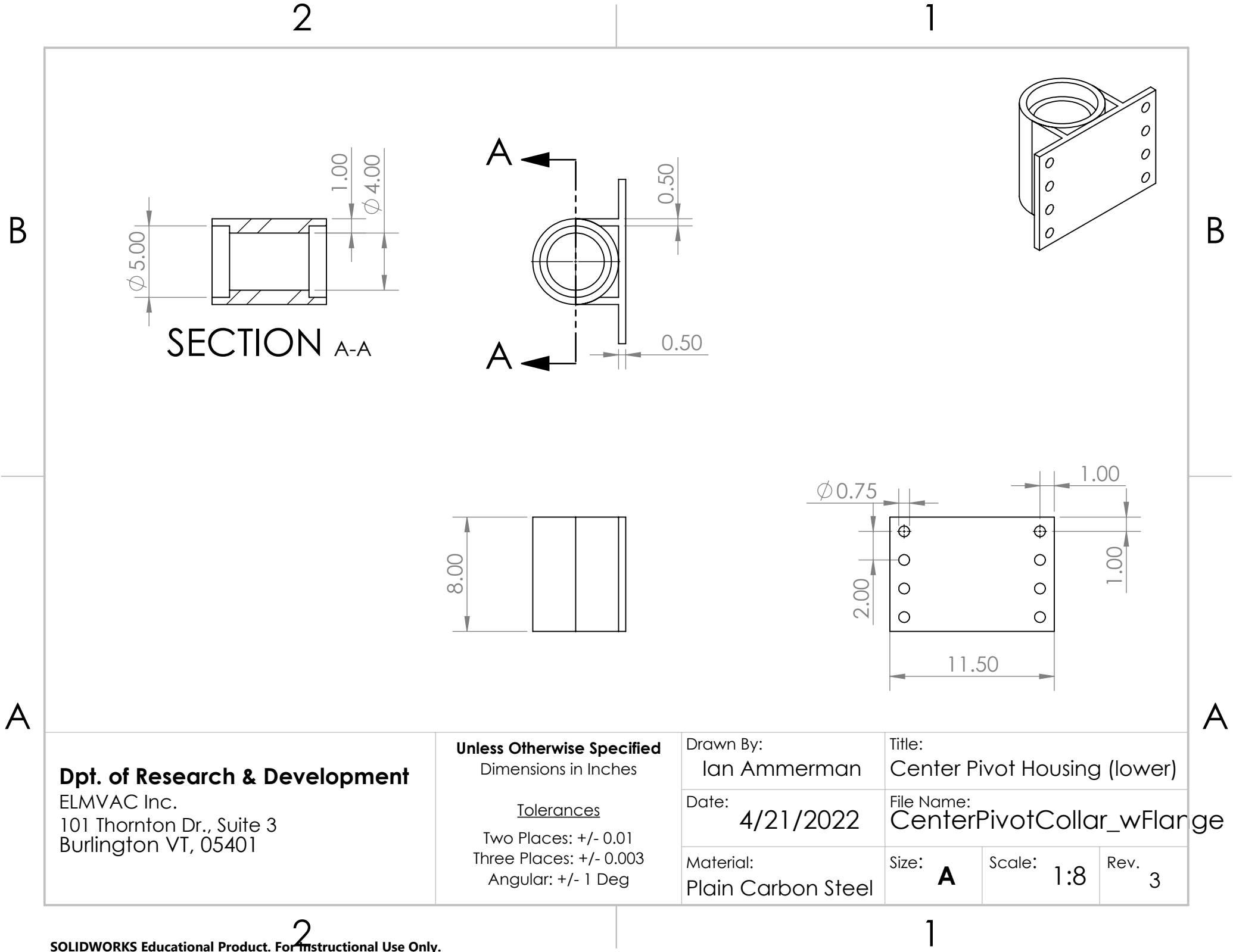
Date:
4/21/2022

Material:
Plain Carbon Steel

Title:
Primary Pivot Member

File Name:
PrimaryPivotShaft

Size: **A** Scale: 1:2 Rev. 2



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Unless Otherwise Specified
Dimensions in Inches

Tolerances

Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
Ian Ammerman

Date:
4/21/2022

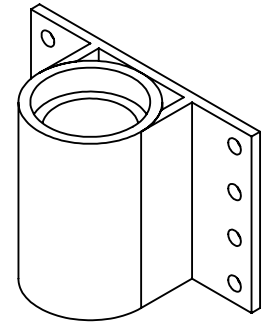
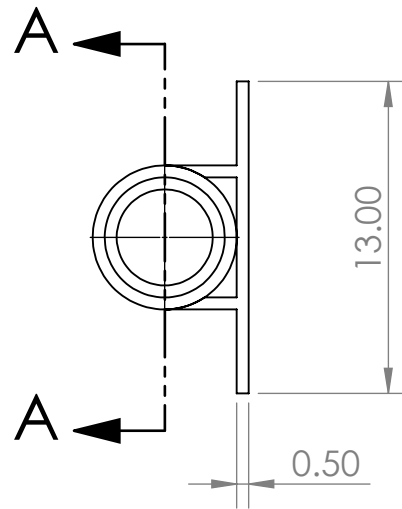
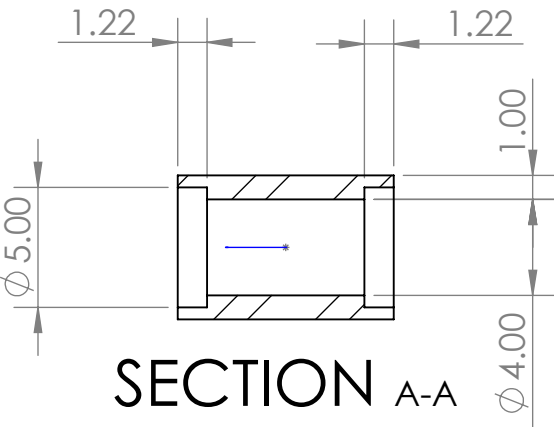
Material:
Plain Carbon Steel

Title:
Center Pivot Housing (lower)

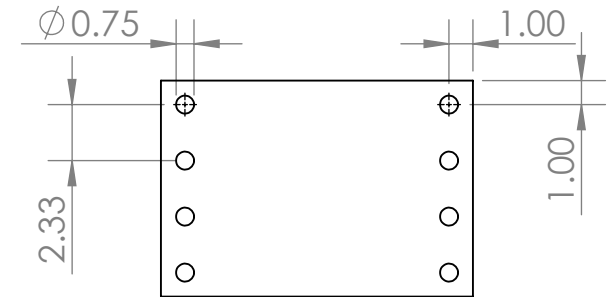
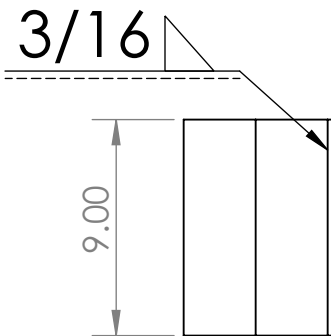
File Name:
CenterPivotCollar_wFlange

Size: **A** Scale: 1:8 Rev. 3

B



B



A

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Burlington VT, 05401

Unless Otherwise Specified
Dimensions in Inches

Tolerances
Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
Ian Ammerman

Date:
4/21/2022

Material:
Plain Carbon Steel

Title:
Center Pivot Housing (Upper)

File Name:

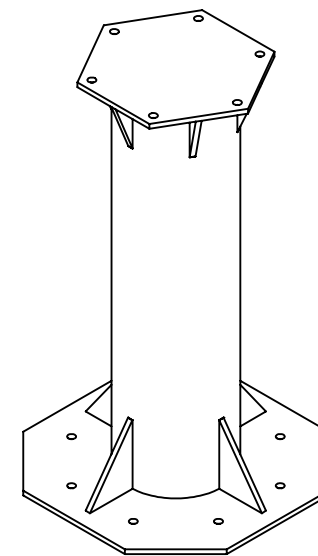
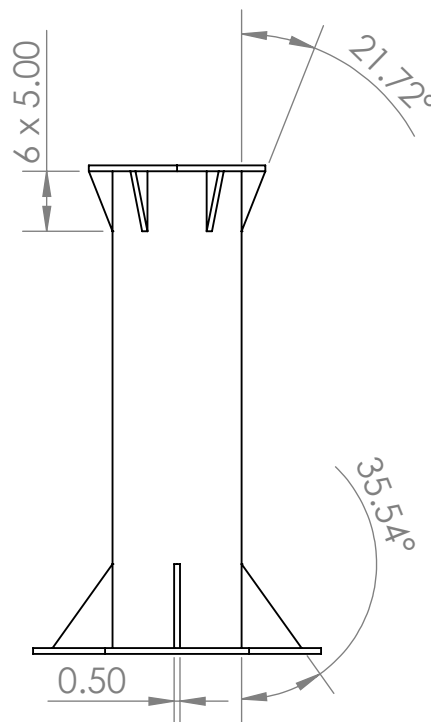
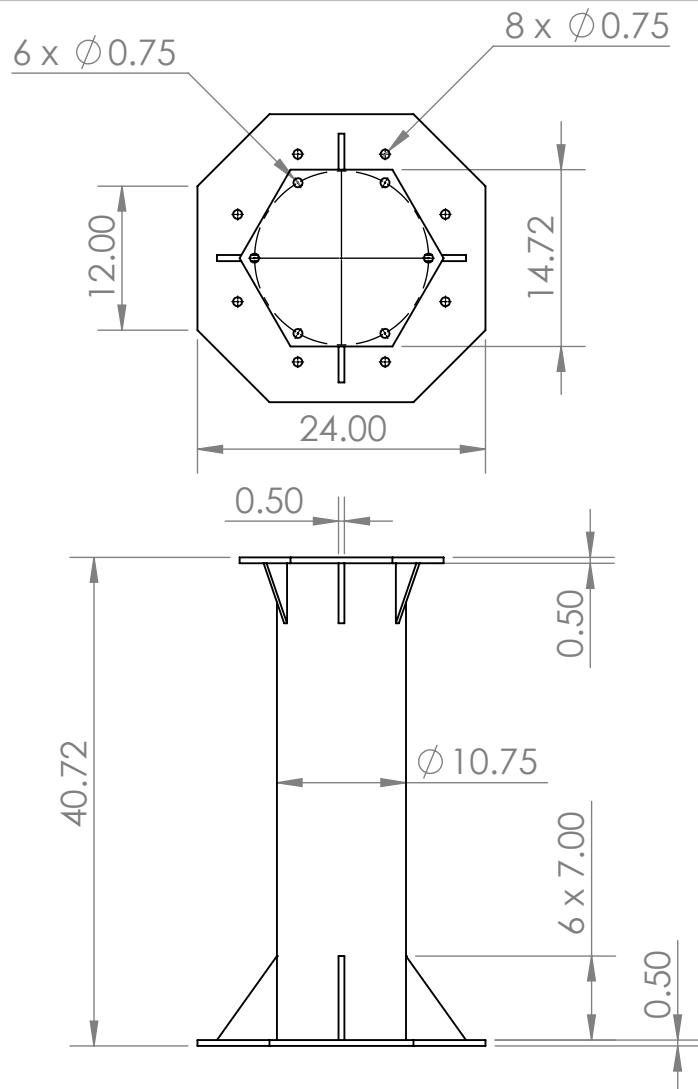
Size: **A**

Scale: 1:8

Rev.

B

A



B

A

Dpt. of Research & Development

ELMVAC Inc.
101 Thornton Dr., Suite 3
Burlington VT, 05401

Unless Otherwise Specified
Dimensions in Inches

Tolerances

Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
Christopher Erb

Date:
4/21/2022

Material:
ASTM A106

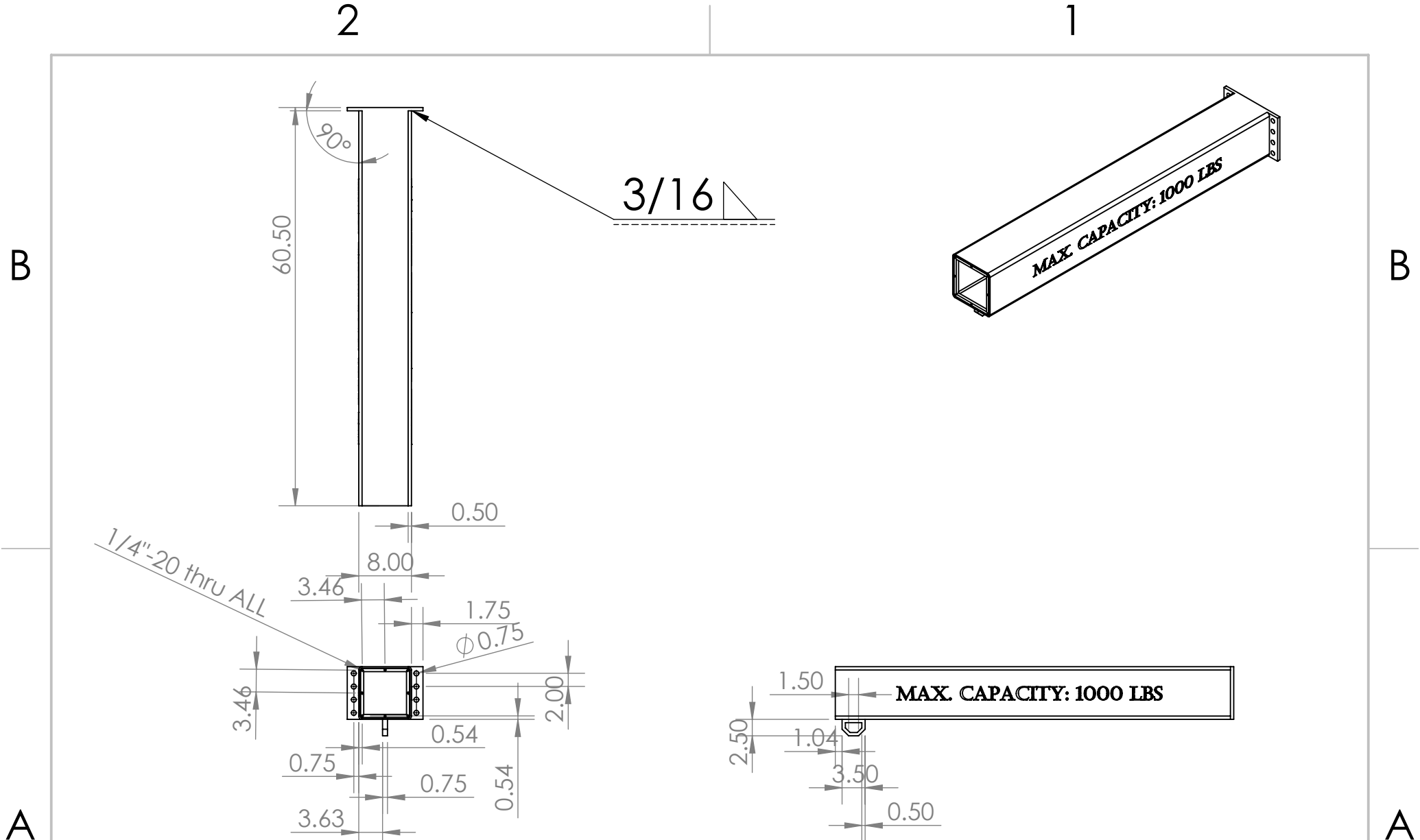
Title:
Tower

File Name:

Size:
A

Scale:
1:24

Rev.



Dpt. of Research & Development
 ELMVAC Inc.
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 Burlington VT, 05401

Unless Otherwise Specified
 Dimensions in Inches

Tolerances

Two Places: +/- 0.01
 Three Places: +/- 0.003
 Angular: +/- 1 Deg

Drawn By:
 Lautaro Visuara

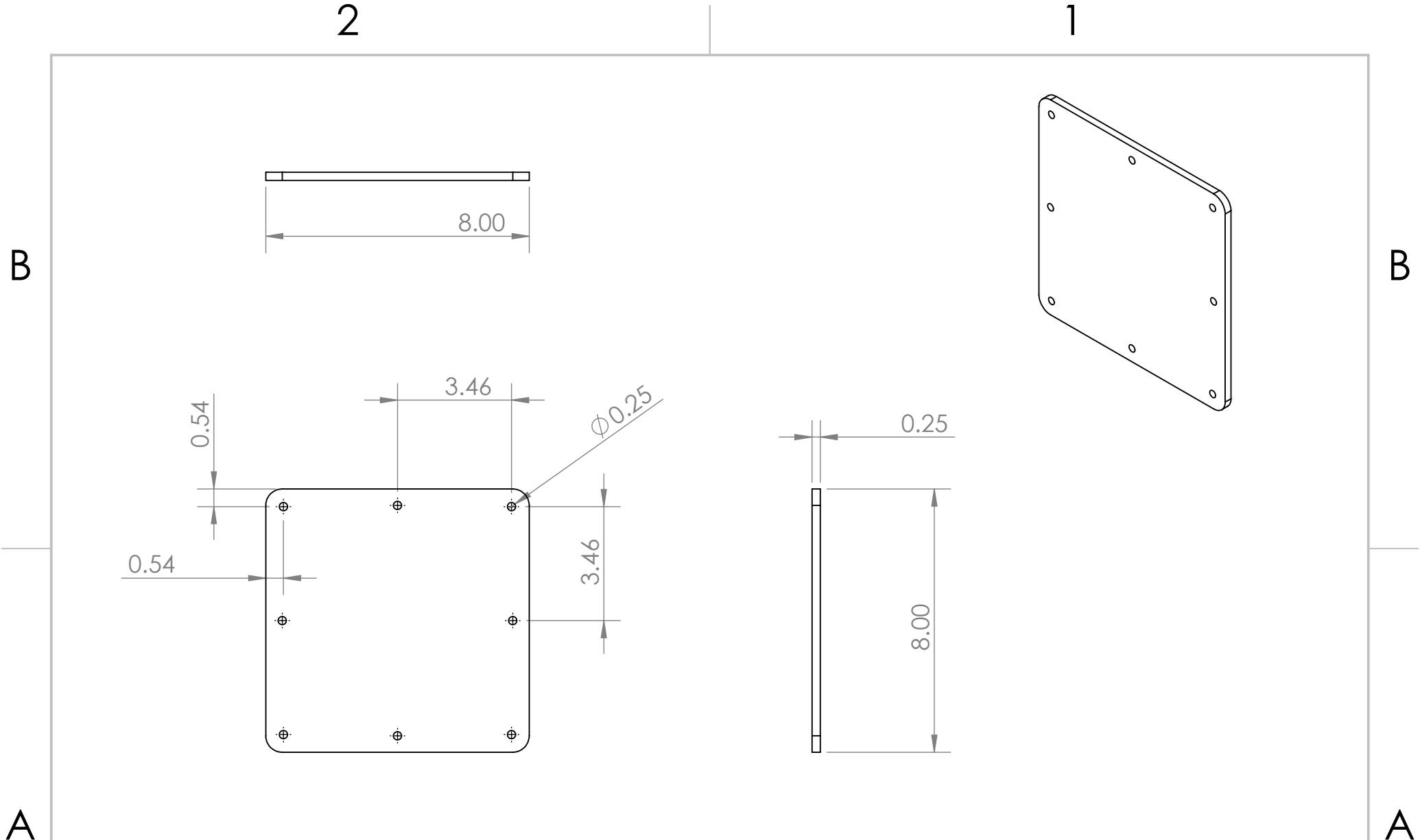
Date:
 4/21/2022

Material:

Title:
 Secondary Boom

File Name:
 SecondaryBoom

Size: **A** Scale: 1:20 Rev.



Dpt. of Research & Development

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Burlington VT, 05401

Unless Otherwise Specified
Dimensions in Inches

Tolerances

Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
Lautaro Visuara

Date:
4/21/2022

Material:

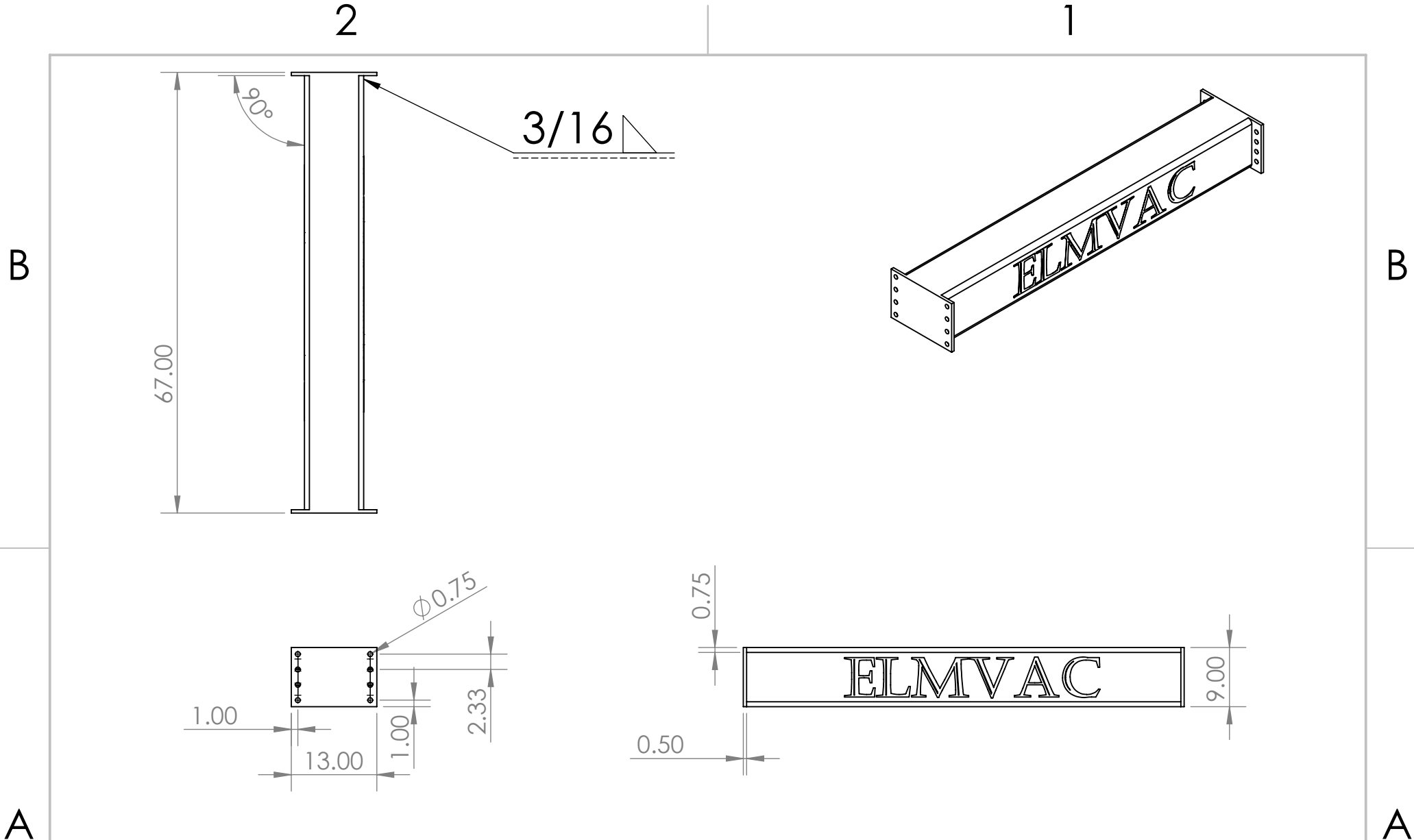
Title:
Endcap

File Name:
SecondaryBoomEndCap

Size:
A

Scale:
1:4

Rev.



Dpt. of Research & Development
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 Burlington VT, 05401

Unless Otherwise Specified
 Dimensions in Inches

Tolerances
 Two Places: +/- 0.01
 Three Places: +/- 0.003
 Angular: +/- 1 Deg

Drawn By:
 Lautaro Visuara

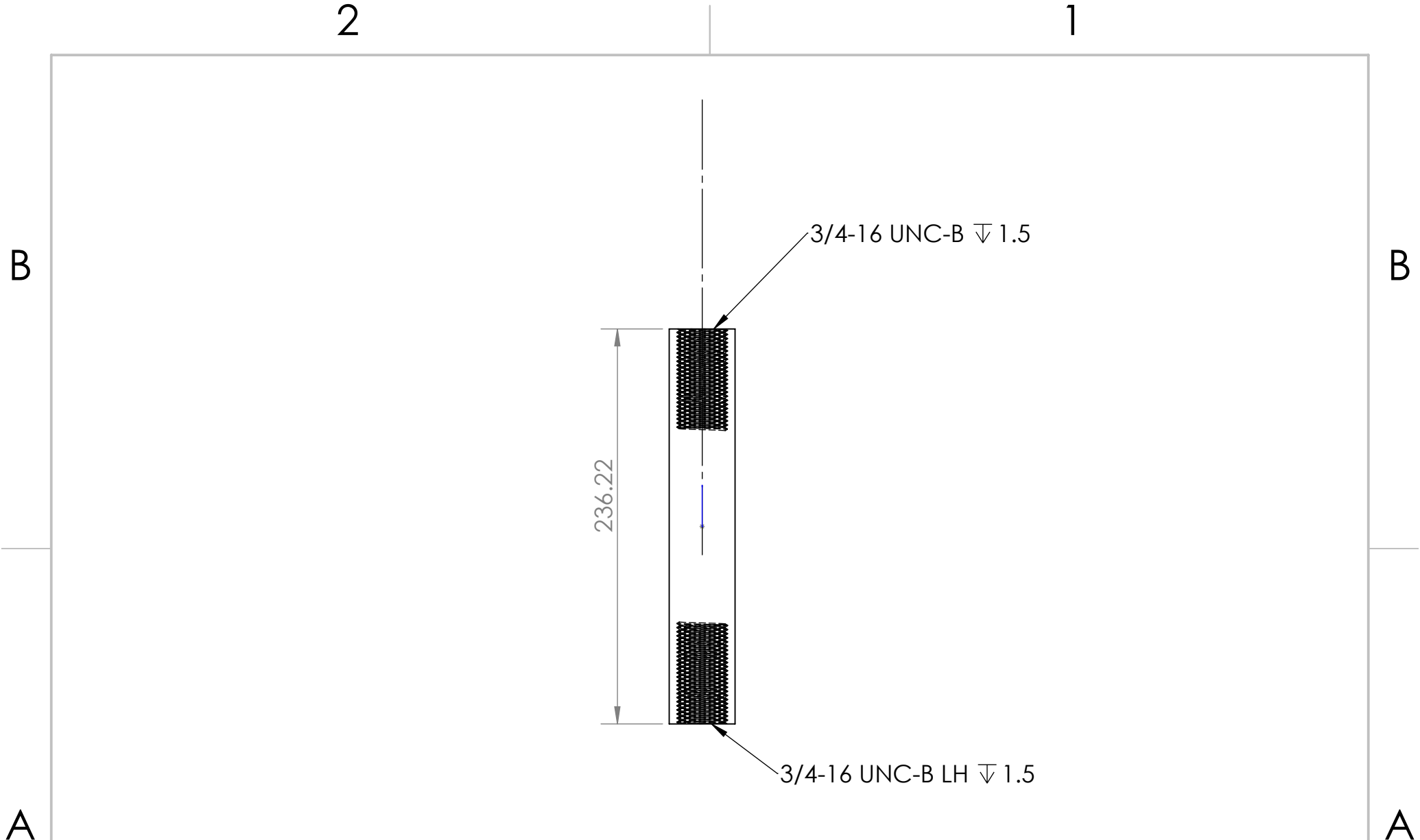
Date:
 4/21/2022

Material:

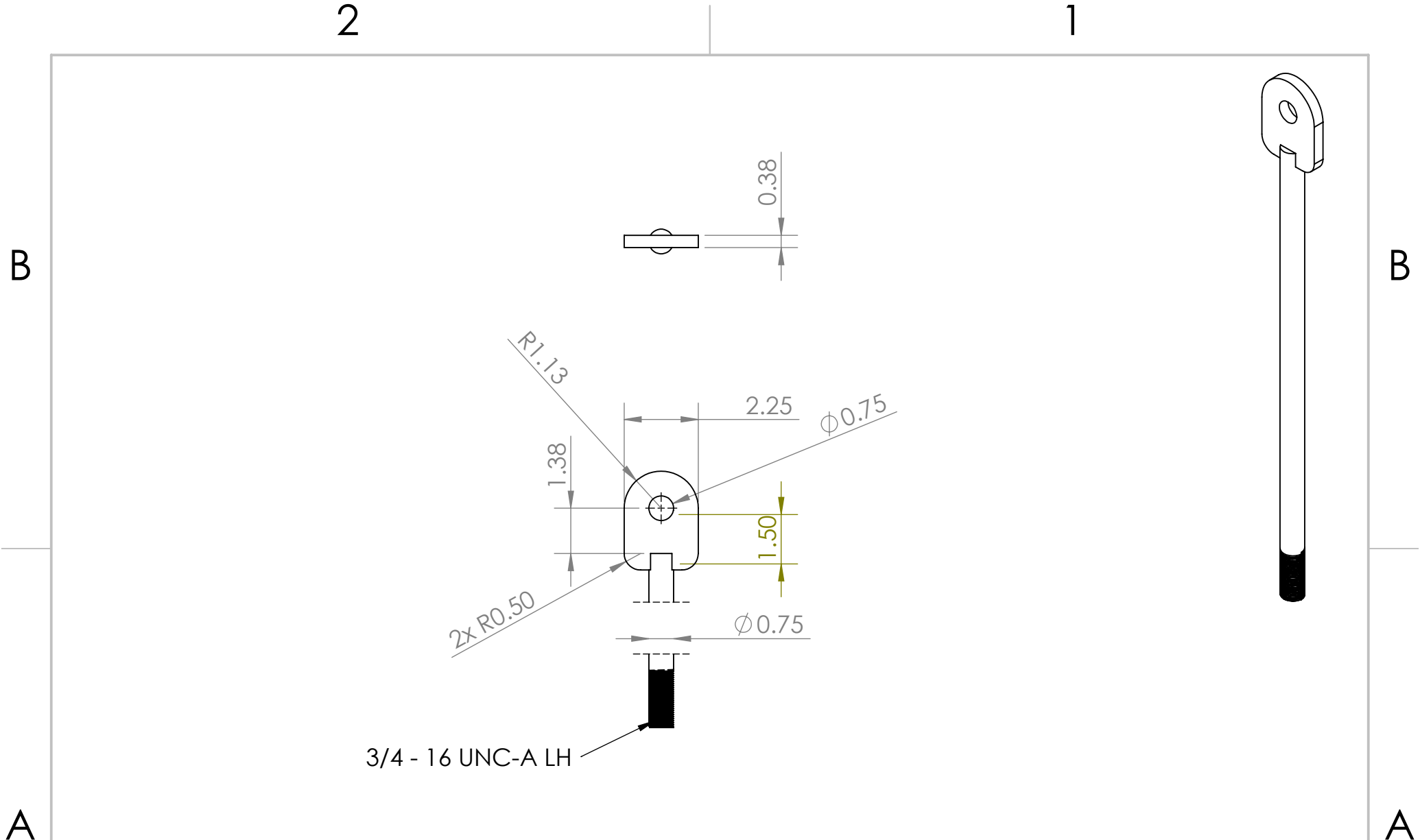
Title:
 Primary Boom

File Name:
 PrimaryBoom

Size: **A** Scale: 1:20 Rev.



Dpt. of Research & Development ELMVAC Inc. 101 Thornton Dr., Suite 3 Burlington VT, 05401	Unless Otherwise Specified Dimensions in Inches <u>Tolerances</u> Two Places: +/- 0.01 Three Places: +/- 0.003 Angular: +/- 1 Deg	Drawn By: W Labbe	Title: Turnbuckle		
		Date: 4/21/2022	File Name: Turnbuckle		
		Material: AISI 1020 HR	Size: A	Scale: 1:2	Rev.



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Unless Otherwise Specified
Dimensions in Inches

Tolerances
Two Places: +/- 0.01
Three Places: +/- 0.003
Angular: +/- 1 Deg

Drawn By:
W Labbe

Date:
4/21/2022

Material:
AISI 1020 HR

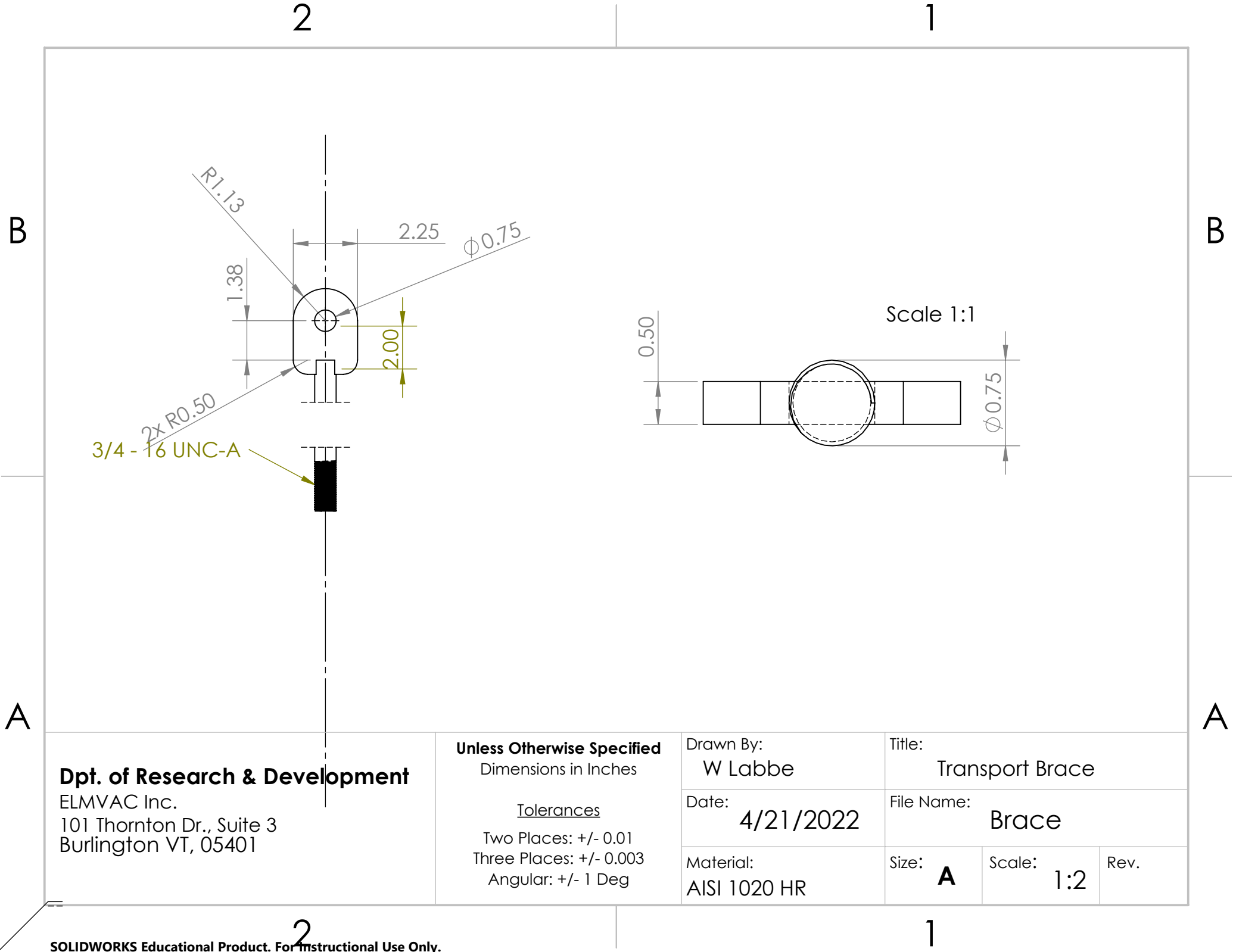
Title:
Lower Half Brace

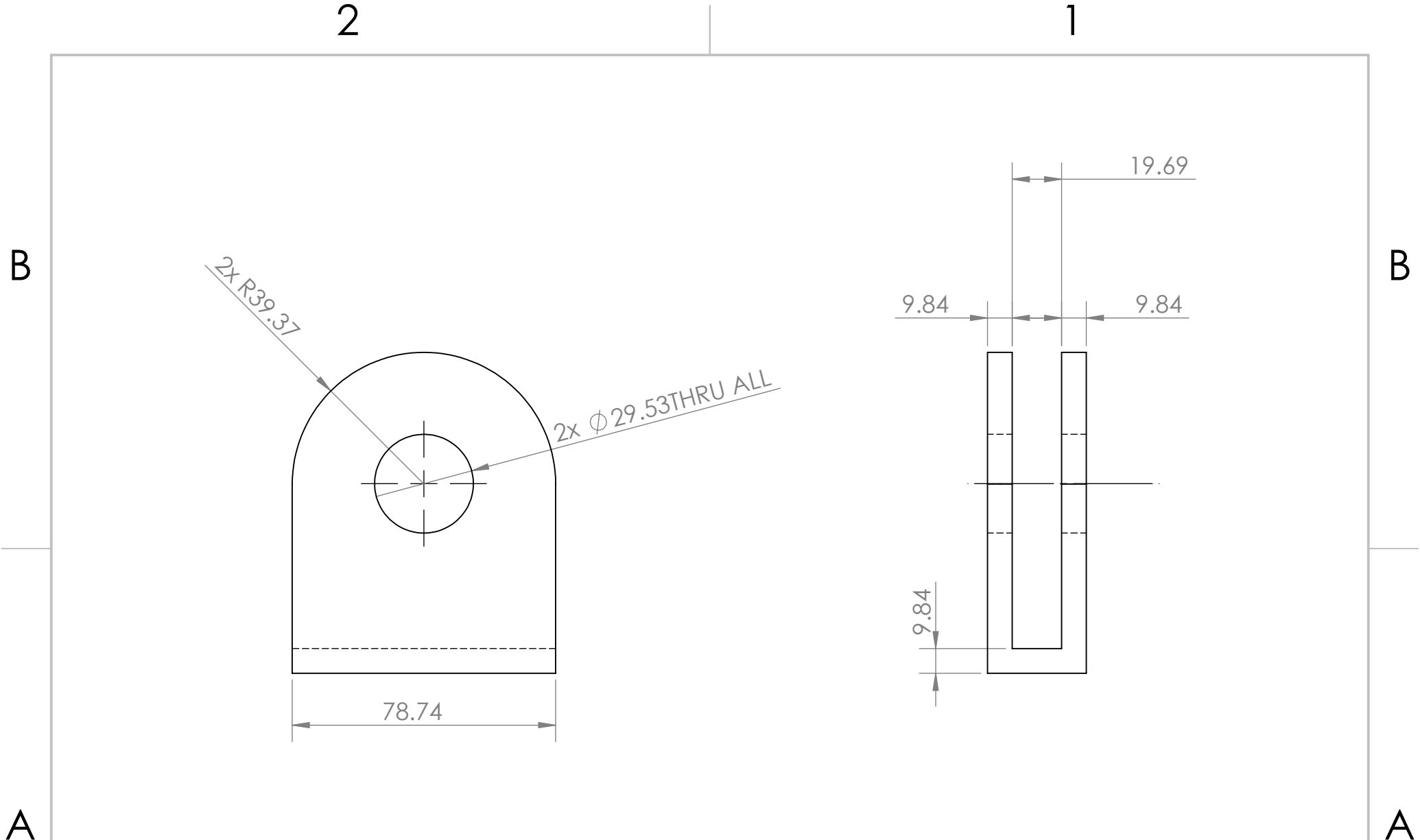
File Name:
Brace LH

Size:
A

Scale:
1:2

Rev.





Dpt. of Research & Development ELMVAC Inc. 101 Thornton Dr., Suite 3 Burlington VT, 05401	Unless Otherwise Specified Dimensions in Inches	Drawn By: W Labbe	Title:		
		Date: 4/21/2022	File Name: Bracket - Boom		
	<u>Tolerances</u> Two Places: +/- 0.01 Three Places: +/- 0.003 Angular: +/- 1 Deg	Material: AISI 1020 HR	Size: A	Scale: 1:1	Rev.