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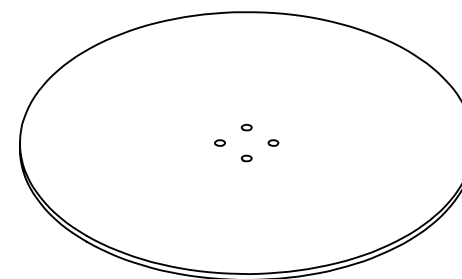
C

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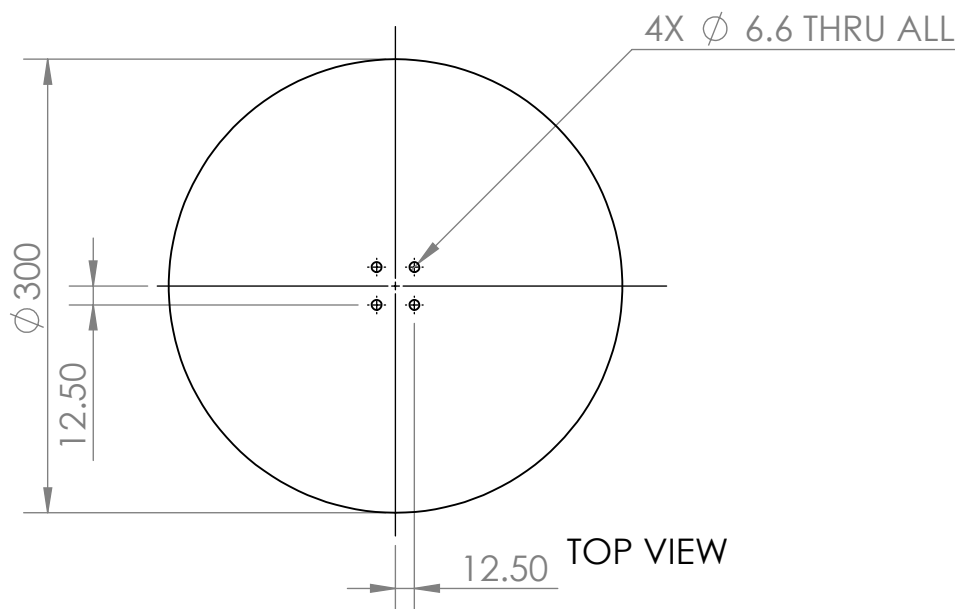
B

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ISOMETRIC VIEW

4X ϕ 6.6 THRU ALL

12.50 TOP VIEW

NOTE:

1. TO BE FABRICATED FROM 0.19 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	TIA	12/9/21
TOLERANCES:	CHECKED	JAKE	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL PLAIN CARBON STEEL			
FINISH N/A			



THE NILE PROJECT

TITLE:

BASE FRAME PLATE

SIZE	DWG. NO.	REV
A	NILE_P1004	0
SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

4

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ITEM NO.

QTY.

DESCRIPTION

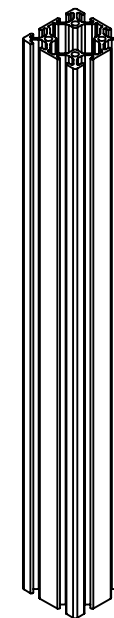
LENGTH

1

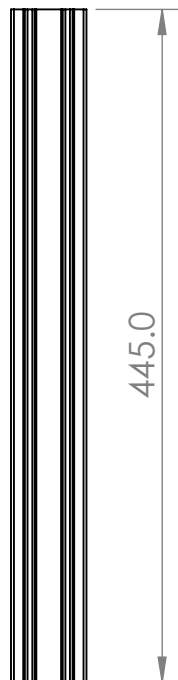
1

80/20 25-5050 PROFILE

445



ISOMETRIC VIEW



445.0

FRONT VIEW



THE NILE PROJECT

TITLE:

STAND UNDER SOIL

UNLESS OTHERWISE SPECIFIED:

NAME DATE

DIMENSIONS ARE IN MM
TOLERANCES:

DRAWN

TIA

12/9/21

ANGULAR

 $\pm 1^\circ$

CHECKED

JAKE

12/9/21

ONE PLACE DECIMAL

 ± 0.5

TWO PLACE DECIMAL

 ± 0.25

FREE AND UNENCUMBERED

MATERIAL

6061-T6 (SS)

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PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY
PURPOSE, COMMERCIAL OR NON-
COMMERCIAL, AND BY ANY MEANS.

FINISH

N/A

SIZE

A

DWG. NO.

NILE_P1005

REV

0

SCALE: 1:5

WEIGHT: 889.38

SHEET 1 OF 1

NOTE:

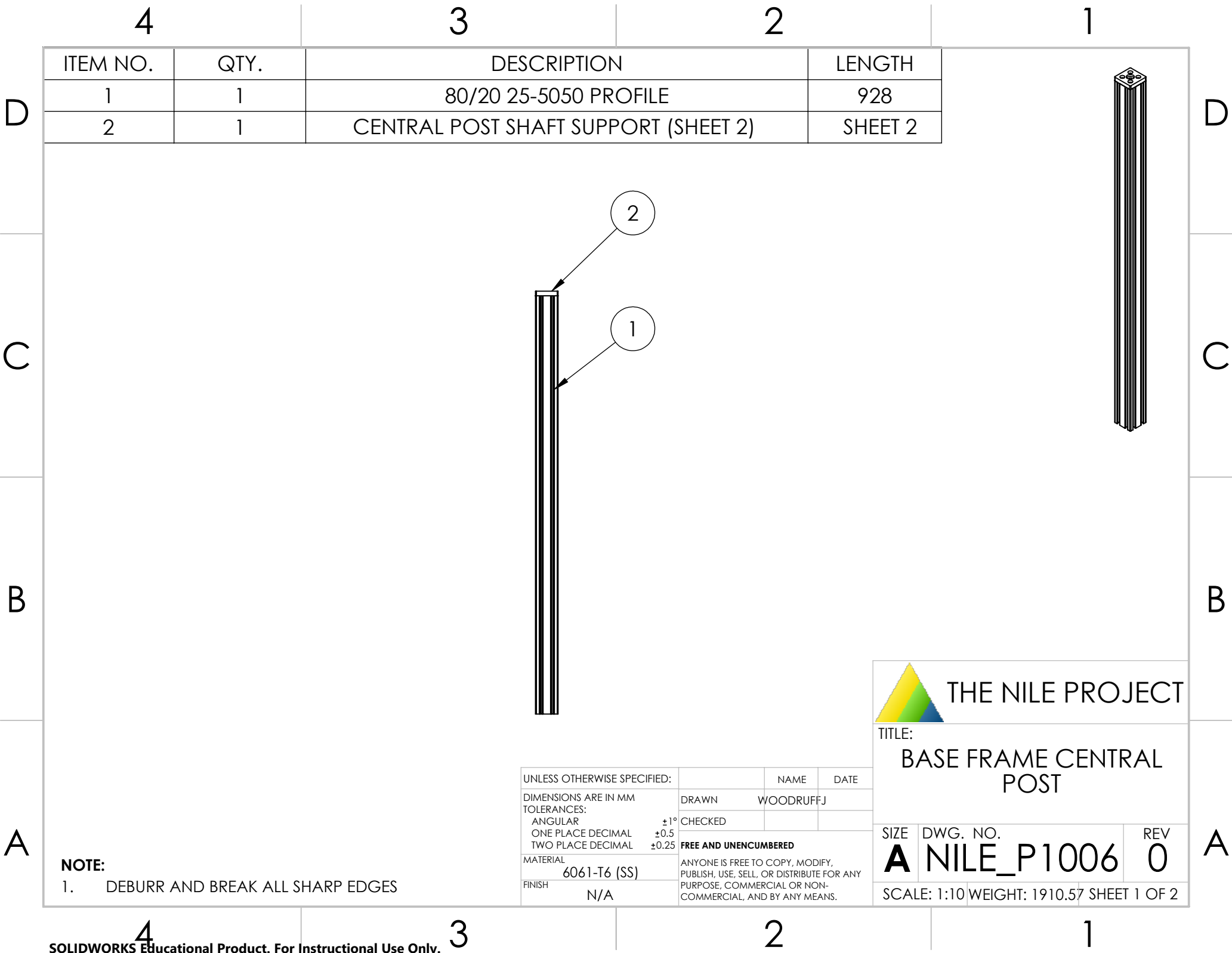
1. DEBURR AND BREAK ALL SHARP EDGES

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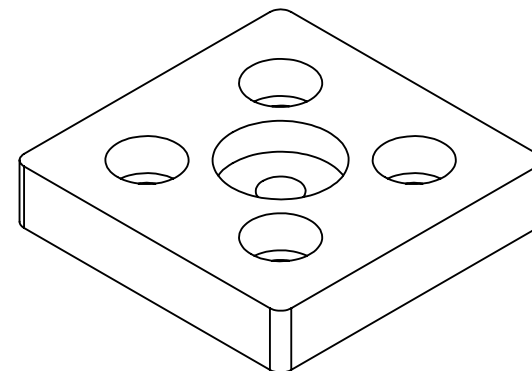
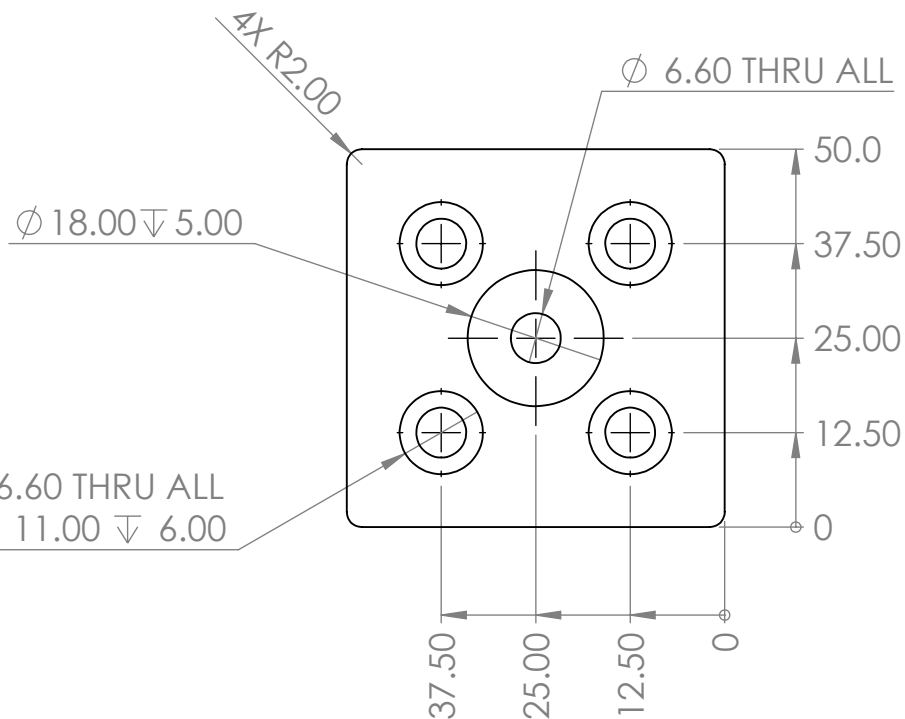
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**NOTE:**

- DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:			NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	WOODRUFF	J12/9/21
TOLERANCES:		CHECKED	HOPPEA	12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL	±0.5			
TWO PLACE DECIMAL	±0.25			
MATERIAL		ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
6061-T6 (SS)				
FINISH				
N/A				

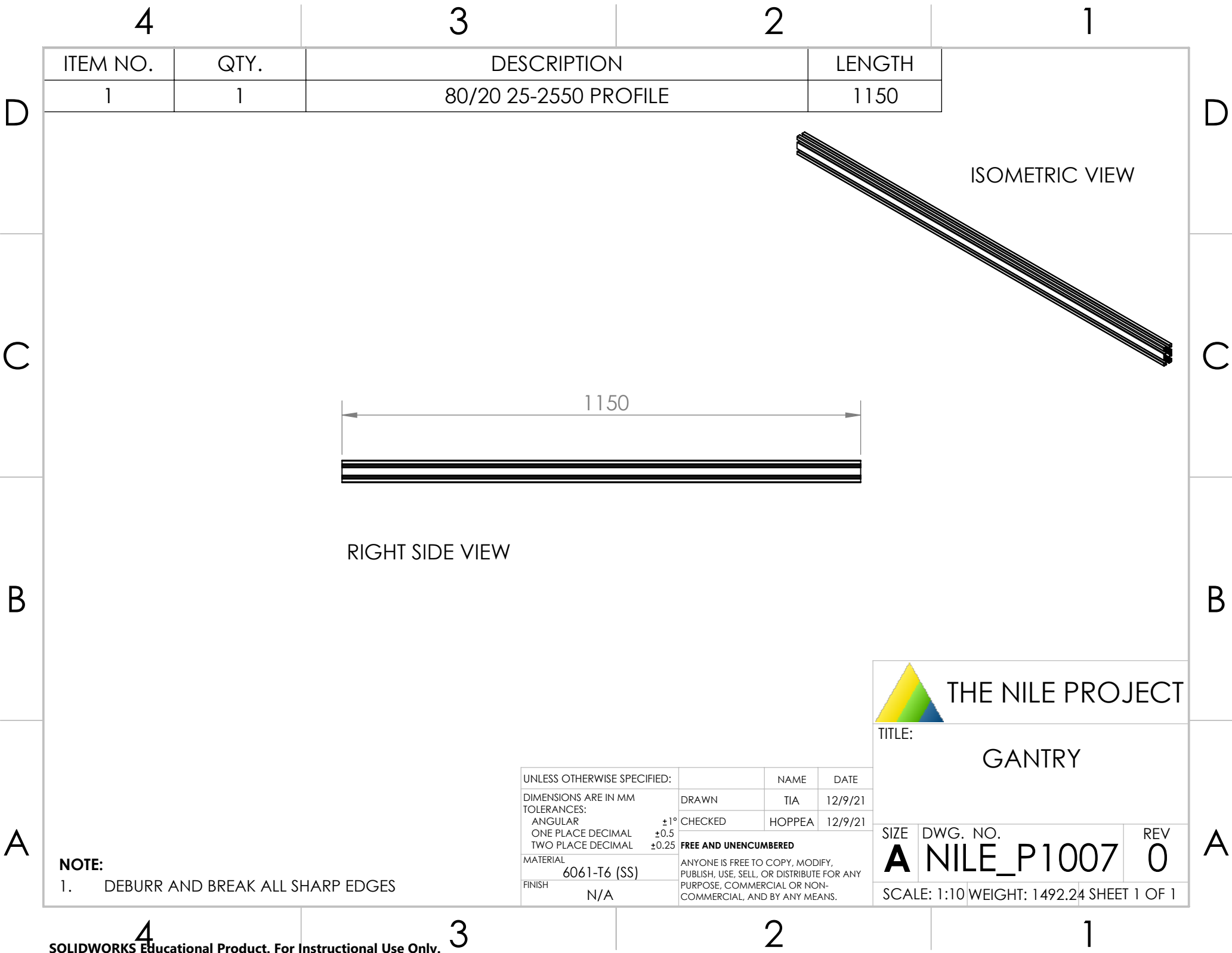


THE NILE PROJECT

TITLE:

BASE FRAME CENTRAL
POST

SIZE	DWG. NO.	REV
A	NILE_P1006	0
SCALE: 1:10 WEIGHT: 1910.57 SHEET 2 OF 2		



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SOLIDWORKS Educational Product. For Instructional Use Only.

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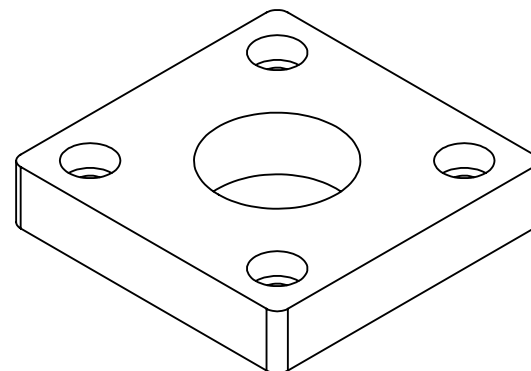
A

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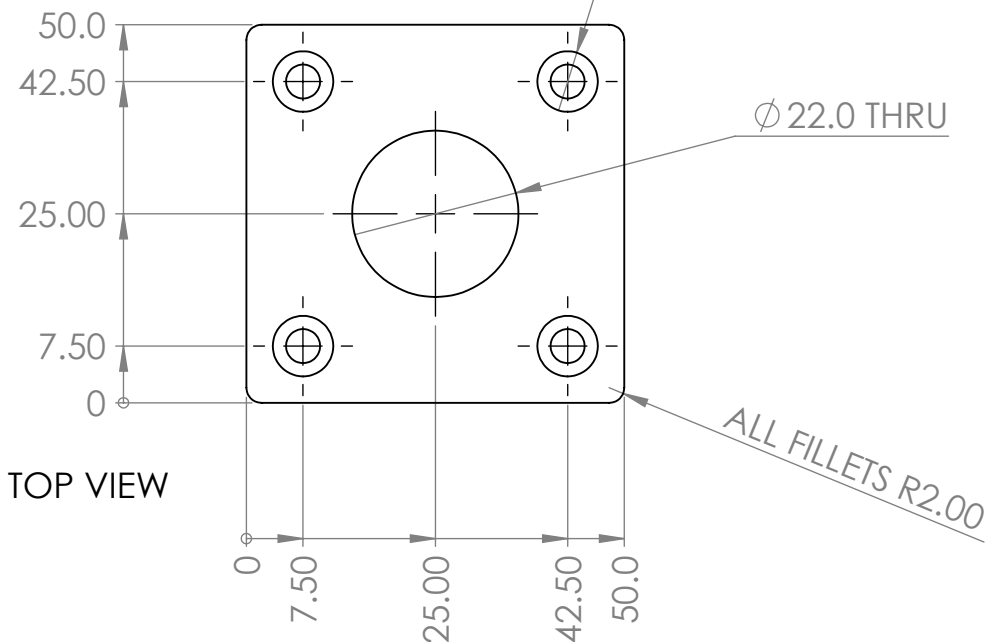
FRONT VIEW



4X ϕ 4.5 THRU ALL
 ϕ 8.00 ∇ 4.00



ISOMETRIC VIEW



TOP VIEW

NOTE:

1. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	JAKE	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
6061-T6 (SS)			
FINISH			
N/A			



THE NILE PROJECT

TITLE:

GANTRY PIVOT PLATE

SIZE	DWG. NO.	REV
A	NILE_P1008	0
SCALE: 1:1	WEIGHT: 53.94	SHEET 1 OF 1

4

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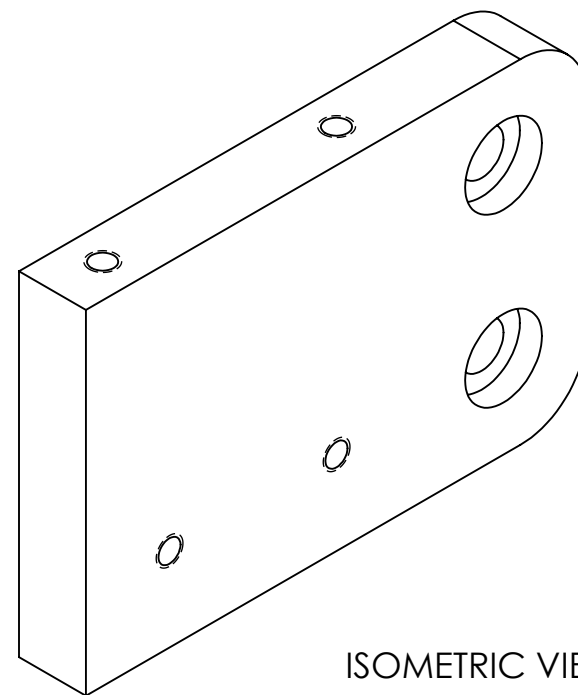
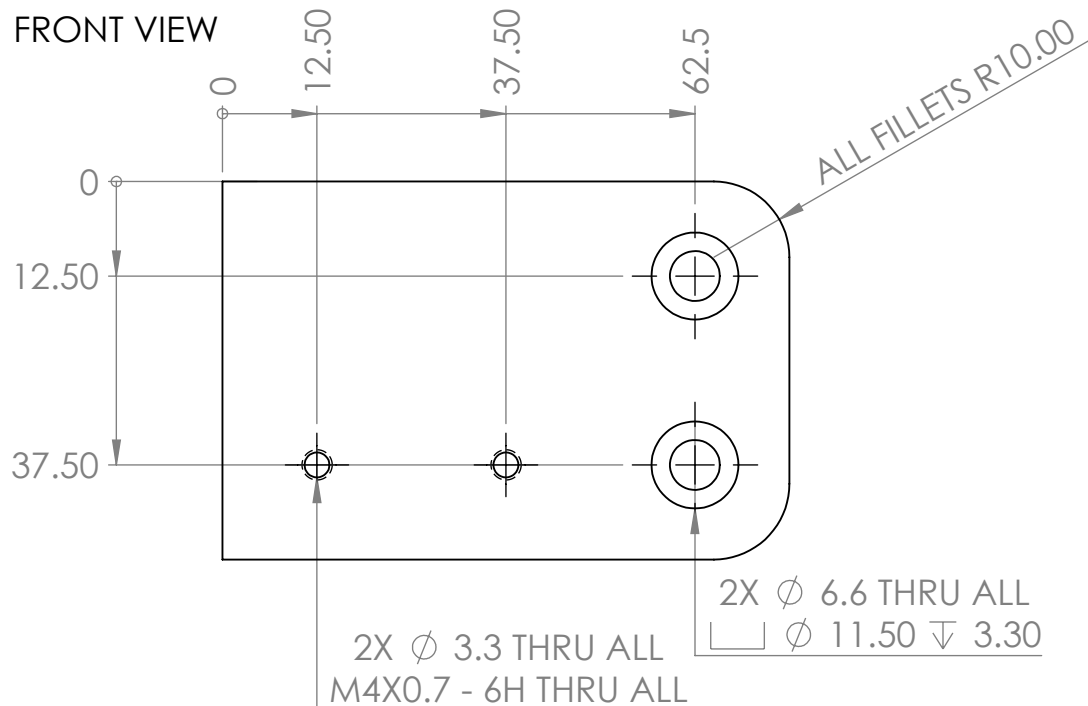
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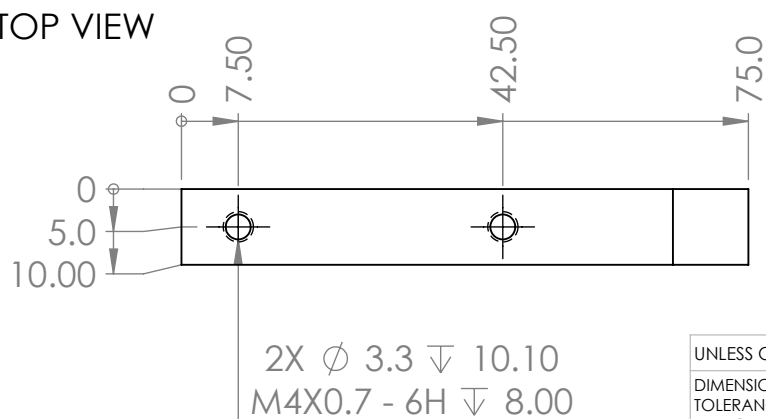
A

FRONT VIEW



ISOMETRIC VIEW

TOP VIEW



NOTE:

1. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES:ANGULAR $\pm 1^\circ$
ONE PLACE DECIMAL ± 0.5
TWO PLACE DECIMAL ± 0.25

MATERIAL

6061-T6 (SS)

FINISH

N/A

DRAWN

NAME

HOPPEA

DATE

12/9/21

CHECKED

JAKE

12/9/21

FREE AND UNENCUMBERED

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PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY
PURPOSE, COMMERCIAL OR NON-
COMMERCIAL, AND BY ANY MEANS.

THE NILE PROJECT

TITLE:

GANTRY PIVOT SUPPORT

SIZE

DWG. NO.

REV

A

NILE_P1009

0

SCALE: 1:2

WEIGHT: 95.58

SHEET 1 OF 1

4

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TOP VIEW

ISOMETRIC VIEW

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C

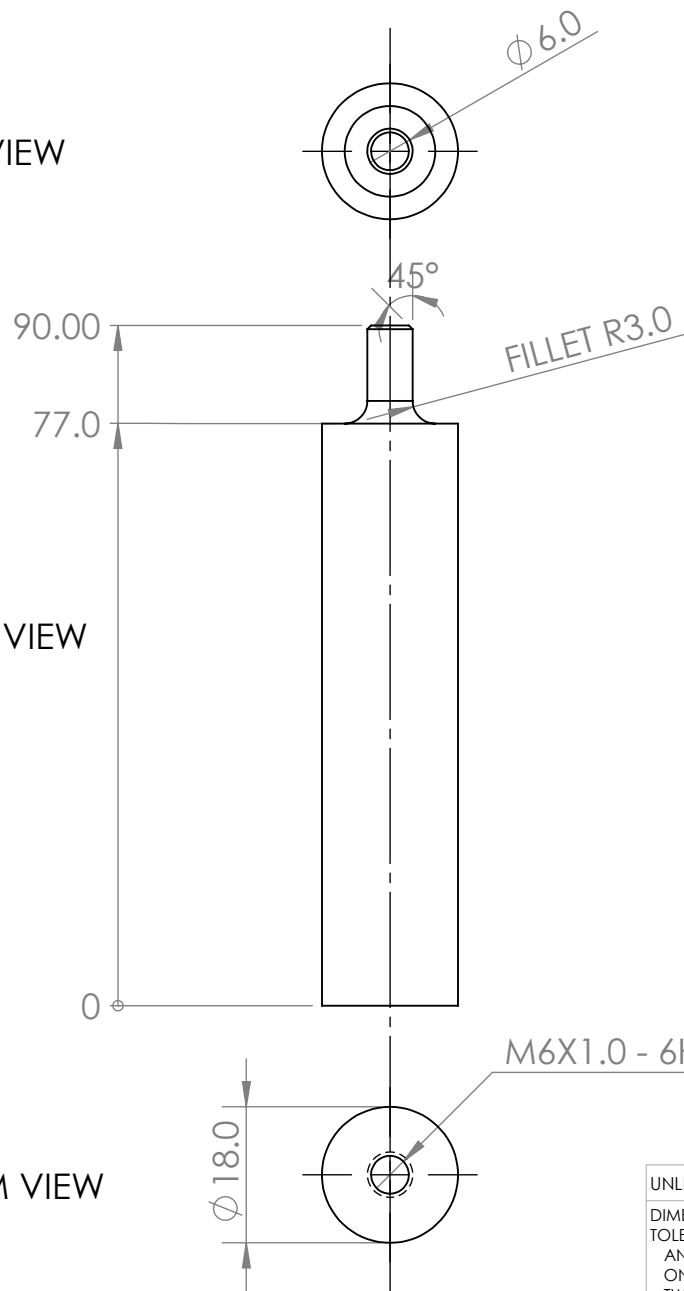
FRONT VIEW

B

B

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NOTE:

1. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	WOODRUFFJ12/9/21
TOLERANCES:		CHECKED	HOPPEA 12/9/21
ANGULAR	$\pm 1^\circ$	FREE AND UNENCUMBERED	
ONE PLACE DECIMAL	± 0.5		
TWO PLACE DECIMAL	± 0.25		
MATERIAL	AISI 304	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	
FINISH	N/A		



THE NILE PROJECT

TITLE:

ROTATIONAL JOINT SHAFT

SIZE	DWG. NO.	REV
A	NILE_P1010	0
SCALE: 1:1	WEIGHT: 157.60	SHEET 1 OF 1

4

3

2

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ITEM NO.

QTY.

DESCRIPTION

LENGTH

1

1

80/20 25-2550 PROFILE

783.58

2

1

80/20 25-2525 PROFILE

251.15

3

1

80/20 25-2525 PROFILE

400

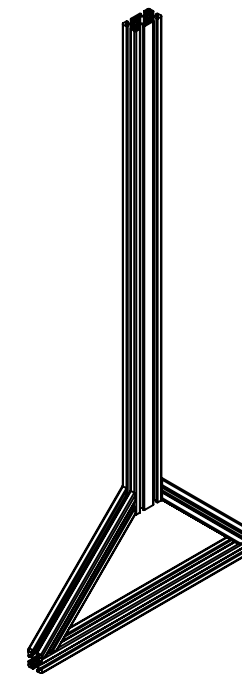
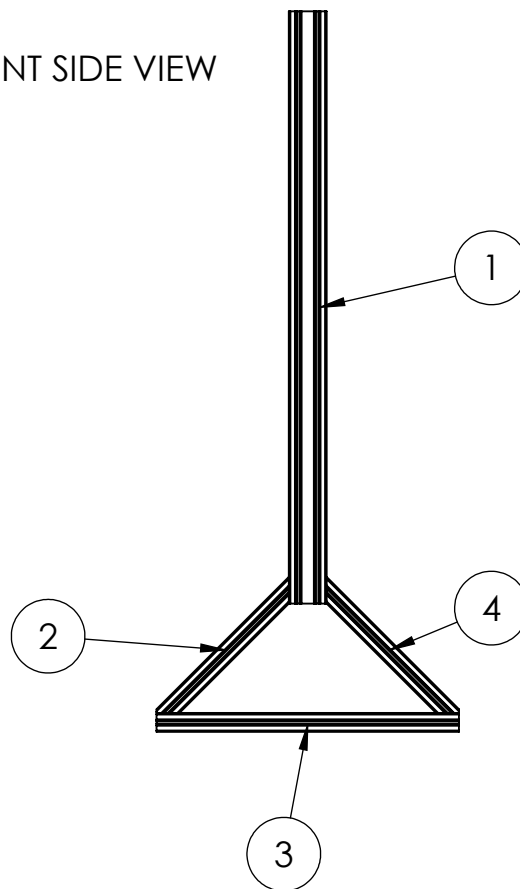
4

1

80/20 25-2525 PROFILE

251.15

FRONT SIDE VIEW



ISOMETRIC VIEW

NOTE:

1. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:

ANGULAR $\pm 1^\circ$ ONE PLACE DECIMAL ± 0.5 TWO PLACE DECIMAL ± 0.25

MATERIAL

6061-T6 (SS)

FINISH

N/A

NAME DATE

DRAWN TIA, LACHLAN 2/9/21

CHECKED HOPPEA 12/9/21

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COMMERCIAL, AND BY ANY MEANS.

THE NILE PROJECT

TITLE:

END FRAME TRUSS

SIZE

A

DWG. NO.

NILE_P1012

REV

0

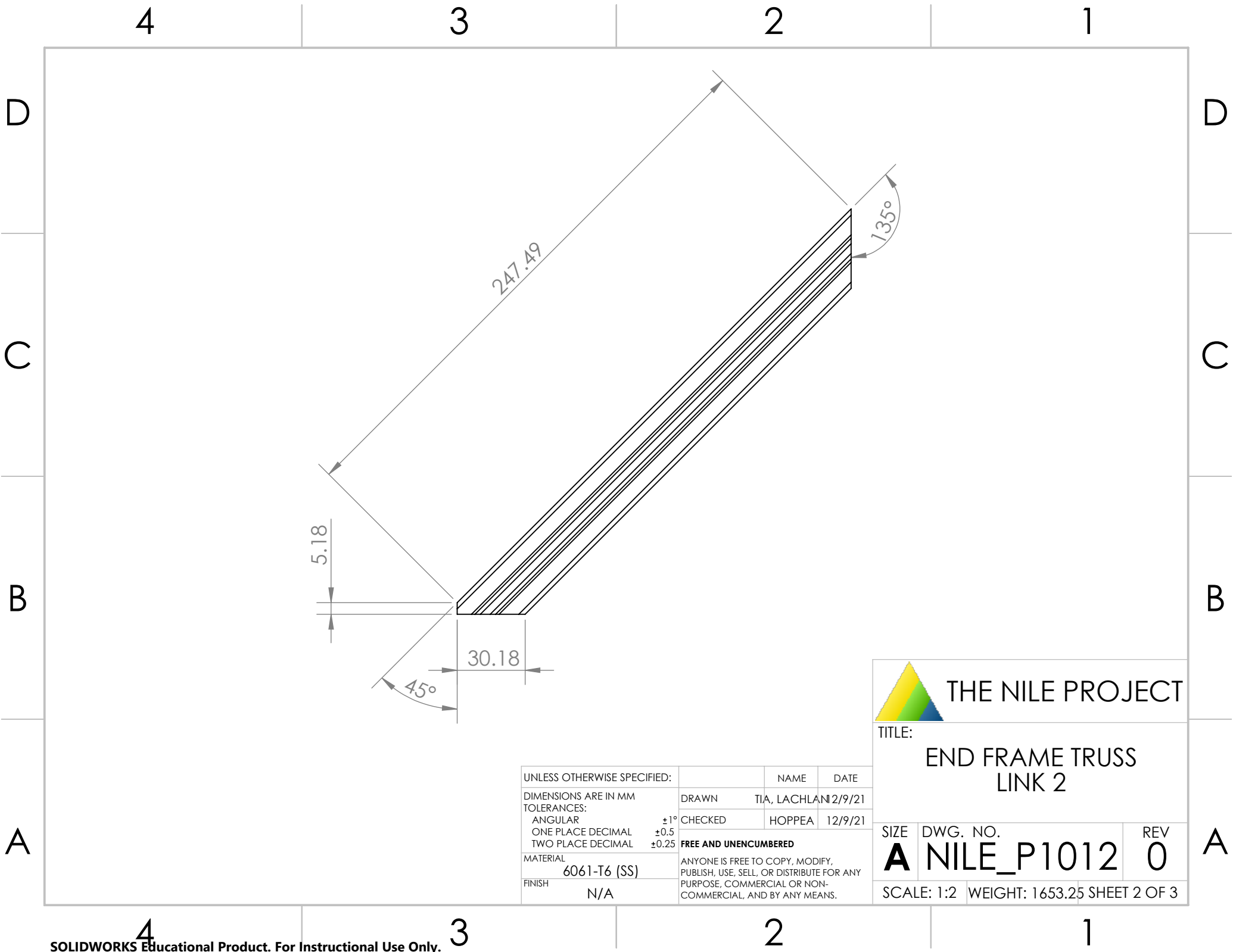
SCALE: 1:10 WEIGHT: 1653.25 SHEET 1 OF 3

4

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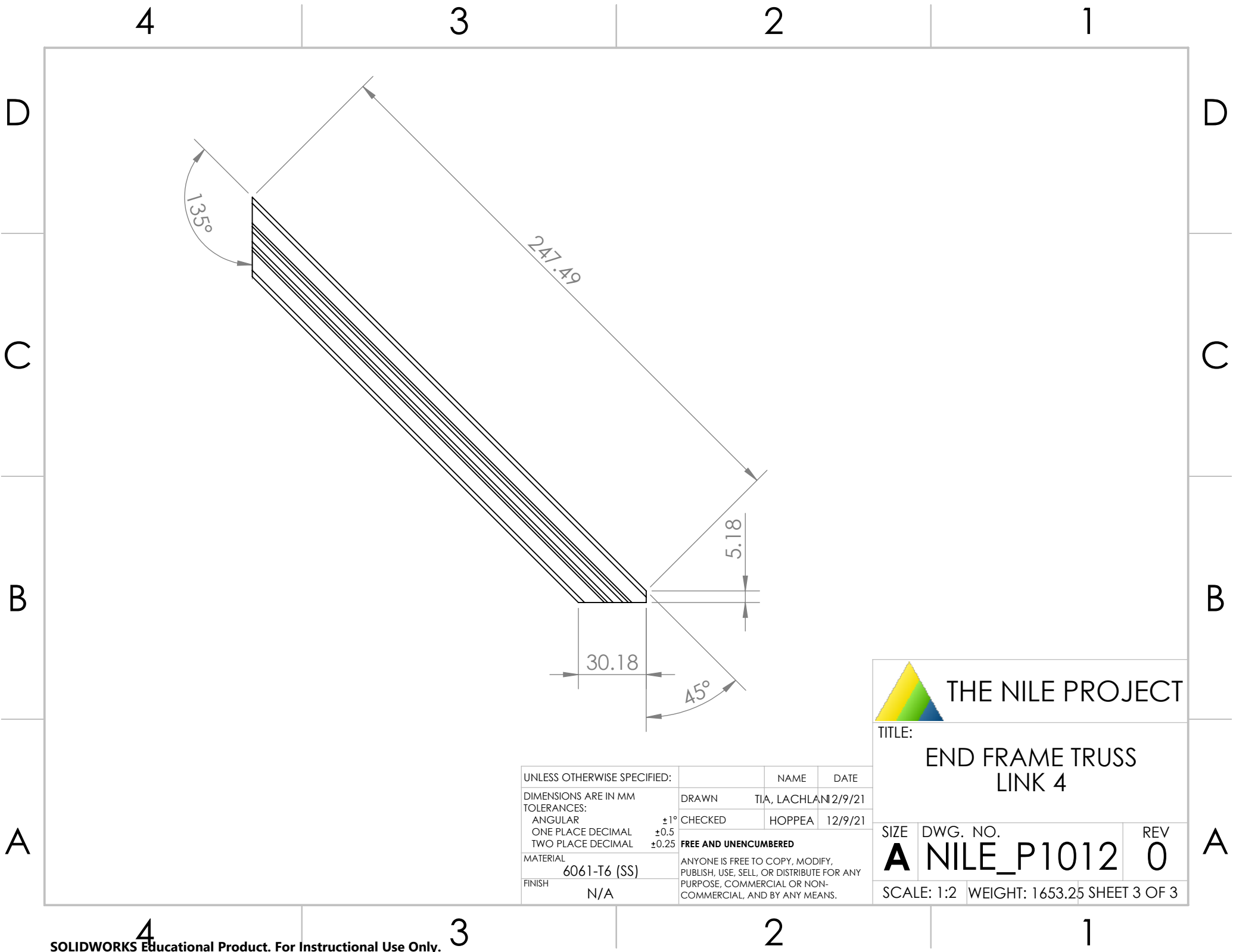
THE NILE PROJECT

TITLE:

END FRAME TRUSS
LINK 2

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	TIA, LACHLAN	12/9/21
TOLERANCES:	CHECKED	HOPPEA	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
6061-T6 (SS)			
FINISH	N/A		

SIZE	DWG. NO.	REV
A	NILE_P1012	0
SCALE: 1:2	WEIGHT: 1653.25	SHEET 2 OF 3



TITLE: END FRAME TRUSS LINK 4			
SIZE A	DWG. NO. NILE_P1012	REV 0	
SCALE: 1:2	WEIGHT: 1653.25	SHEET 3 OF 3	

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	TIA, LACHLAN	2/9/21
TOLERANCES:	CHECKED	HOPPEA	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL 6061-T6 (SS)			
FINISH N/A			

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RIGHT SIDE VIEW

4X \varnothing 6.6 THRU ALL

4X R10.00

 \varnothing 12.70 $\begin{matrix} +0.25 \\ 0.00 \end{matrix}$ THRU

60.36

33.84

12.50

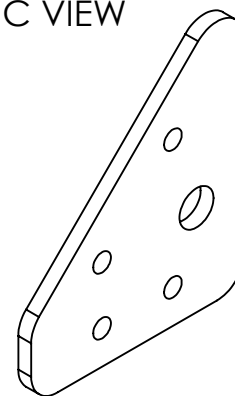
0

90.4

0

FRONT SIDE VIEW

ISOMETRIC VIEW



THE NILE PROJECT

TITLE:

END FRAME WHEEL
ASSEMBLY PLATES

NOTE:

1. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:

ANGULAR $\pm 1^\circ$ ONE PLACE DECIMAL ± 0.5 TWO PLACE DECIMAL ± 0.25

MATERIAL

6061-T6 (SS)

FINISH

N/A

NAME DATE

DRAWN LACHLAN 12/9/21

CHECKED JAKE 12/9/21

FREE AND UNENCUMBERED

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COMMERCIAL, AND BY ANY MEANS.

SIZE

A

DWG. NO.

NILE_P1013

REV

0

SCALE: 1:2

WEIGHT: 61.51

SHEET 1 OF 1

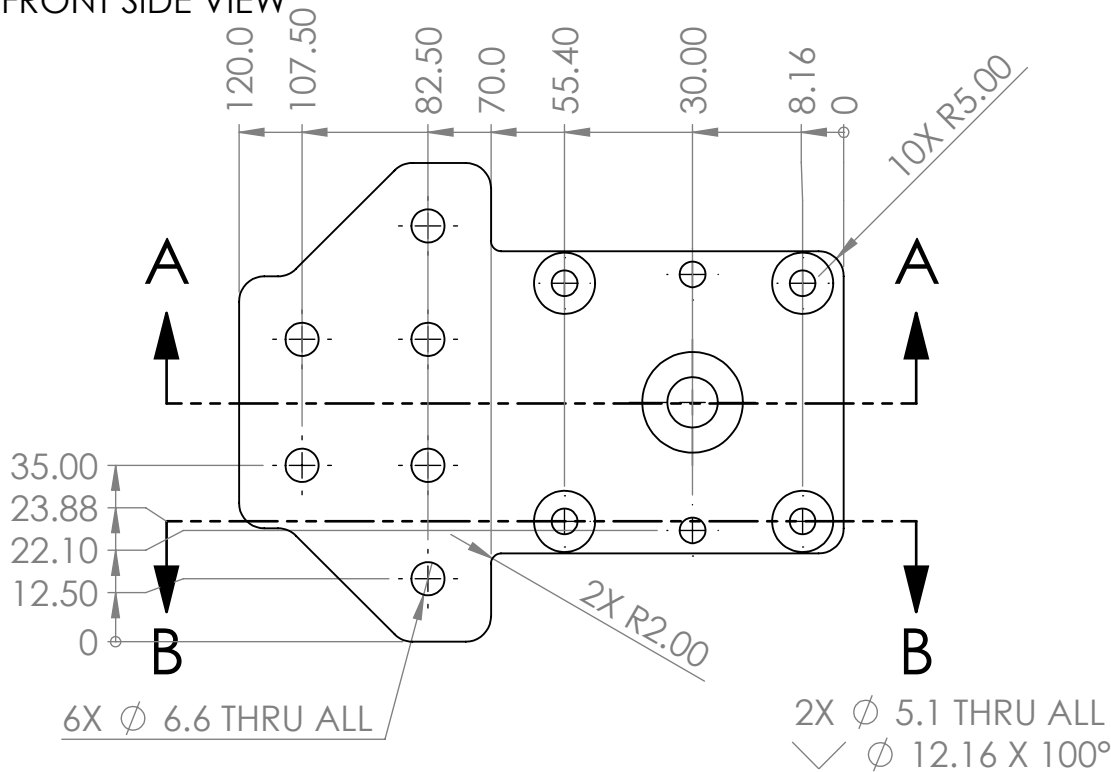
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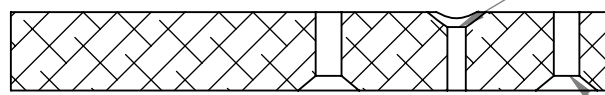
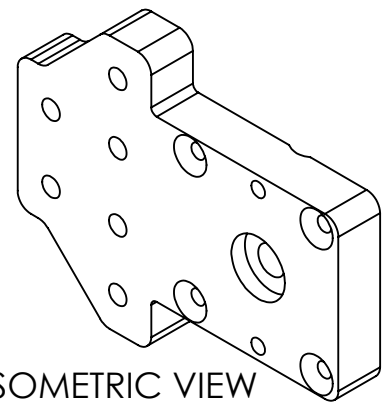
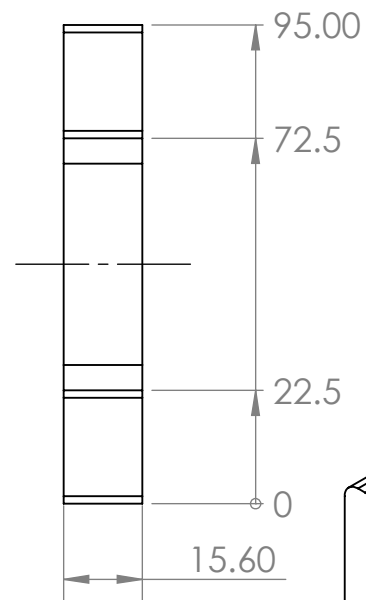
2

1

FRONT SIDE VIEW



RIGHT SIDE VIEW



SECTION B-B

SCALE 2 : 3

4X ϕ 5.1 THRU ALL
 \checkmark ϕ 12.16 X 100° ϕ 10.0 THRU
 \square ϕ 20.0 ∇ 5.0

SECTION A-A

SCALE 2 : 3

NOTE:

1. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES:ANGULAR $\pm 1^\circ$
ONE PLACE DECIMAL ± 0.5
TWO PLACE DECIMAL ± 0.25

MATERIAL

6061-T6 (SS)

FINISH

N/A

DRAWN

NAME

TIA

DATE

12/9/21

CHECKED

JAKE

12/9/21

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COMMERCIAL, AND BY ANY MEANS.

THE NILE PROJECT

TITLE:

END FRAME MOTOR
MOUNT

SIZE

A

DWG. NO.

NILE_P1014

REV

0

SCALE: 1:1

WEIGHT: 313.48

SHEET 1 OF 1

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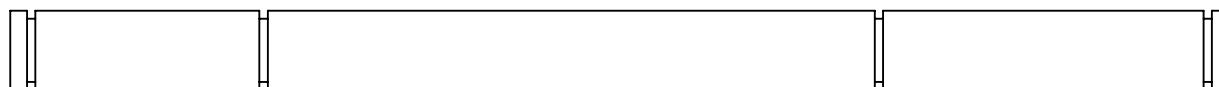
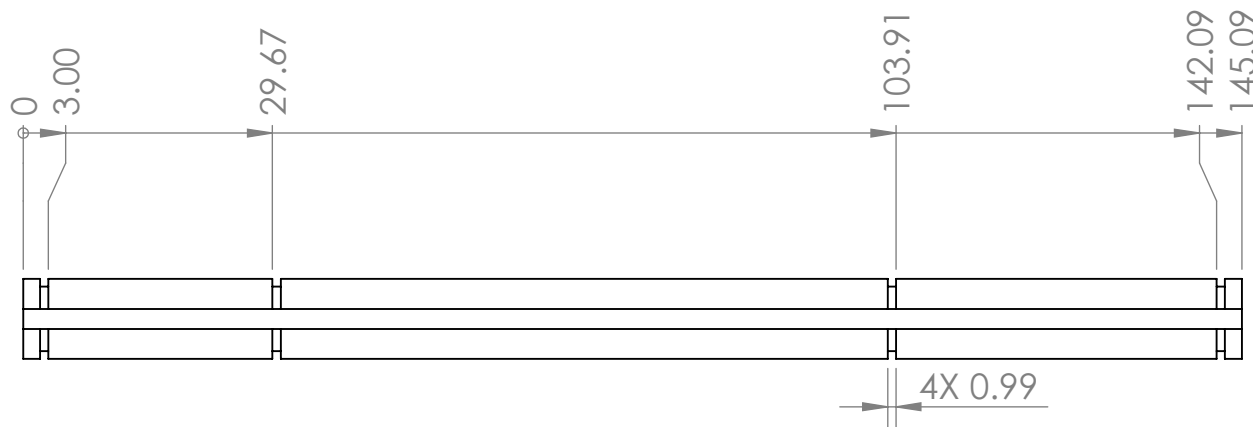
C

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**NOTE:**

1. TO BE FABRICATED FROM FULLY KEYED ROTARY SHAFT, 3/8" DIAMETER
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA
TOLERANCES:		CHECKED	JAKE
ANGULAR $\pm 1^\circ$		12/9/21	
ONE PLACE DECIMAL ± 0.5		12/9/21	
TWO PLACE DECIMAL ± 0.25		12/9/21	
MATERIAL		FREE AND UNENCUMBERED	
AISI 304		ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	
FINISH		N/A	

 THE NILE PROJECT			
TITLE: GANTRY WHEEL AXLE			
SIZE	DWG. NO.	REV	
A	NILE_P1015	0	
SCALE: 1:2		WEIGHT:	SHEET 1 OF 1

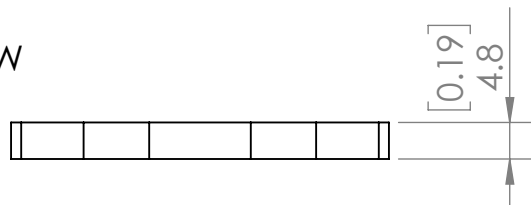
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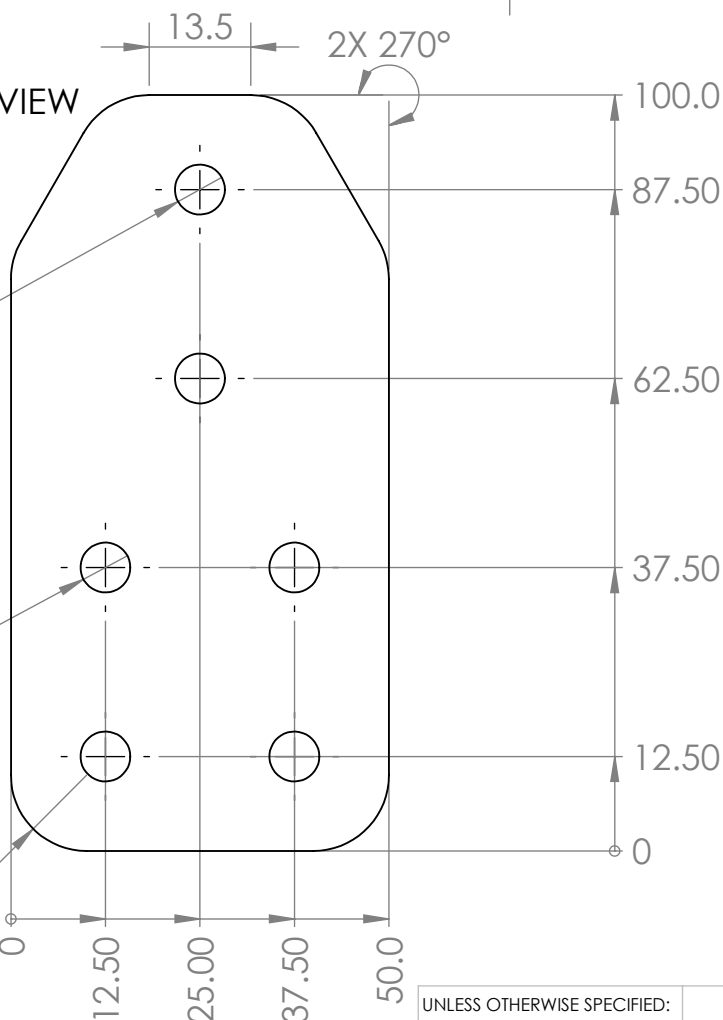
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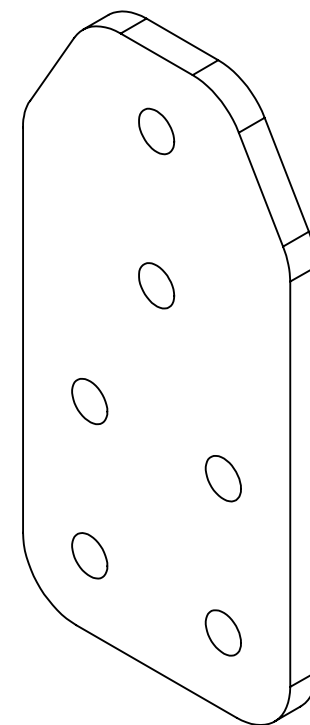
TOP VIEW



RIGHT SIDE VIEW

2X ϕ 6.6 THRU ALL4X ϕ 6.6 THRU ALL

6X R10.0



ISOMETRIC VIEW

NOTE:

1. TO BE FABRICATED FROM 0.19 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES:
ANGULAR $\pm 1^\circ$
ONE PLACE DECIMAL ± 0.5
TWO PLACE DECIMAL ± 0.25

MATERIAL 6061-T6 (SS)

FINISH N/A

	NAME	DATE
DRAWN	TIA	12/9/21
CHECKED	JAKE	12/9/21

FREE AND UNENCUMBERED

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PURPOSE, COMMERCIAL OR NON-
COMMERCIAL, AND BY ANY MEANS.



THE NILE PROJECT

TITLE:

GANTRY TO END FRAME
OUTSIDE PLATE

SIZE	DWG. NO.	REV
A	NILE_P1017	0
SCALE: 1:1	WEIGHT: 58.23	SHEET 1 OF 1

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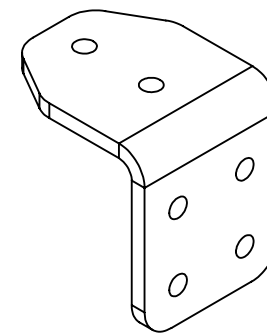
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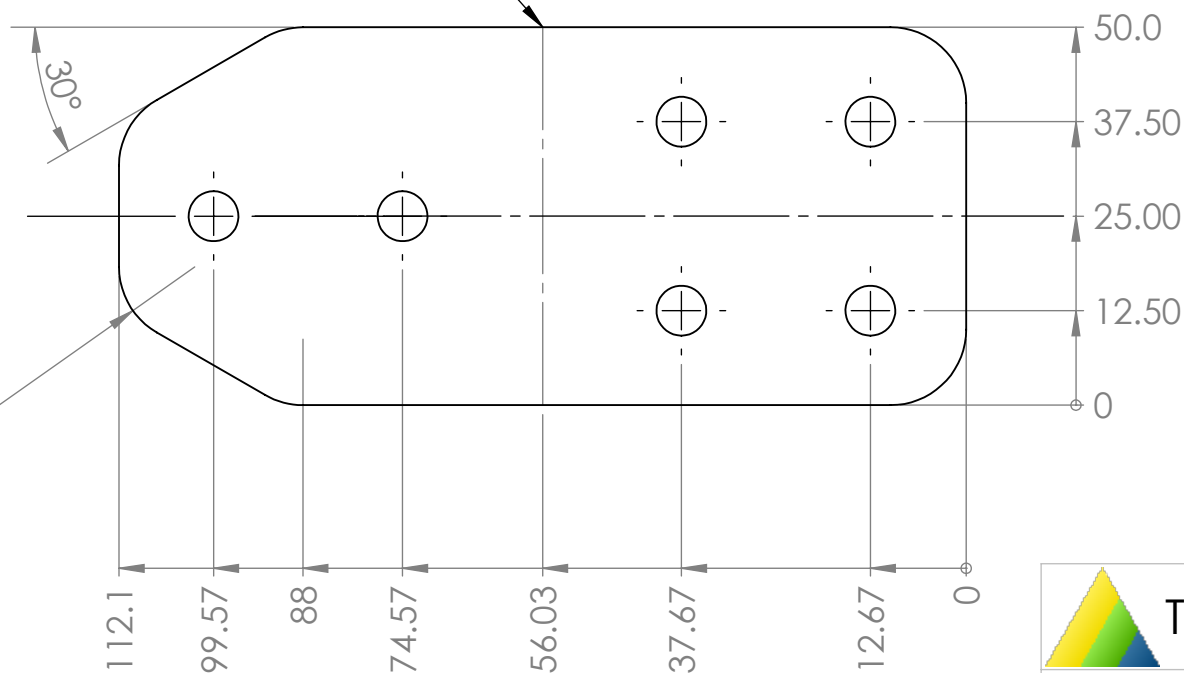
B

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BEND LINE



THE NILE PROJECT

TITLE:

GANTRY TO END FRAME
INSIDE PLATE

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	TIA 12/9/21
TOLERANCES:		CHECKED	JAKE 12/9/21
ANGULAR ±1°		FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON- COMMERCIAL, AND BY ANY MEANS.	
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	6061-T6 (SS)		
FINISH	N/A		

SIZE	DWG. NO.	REV
A	NILE_P1018	0
SCALE: 1:1	WEIGHT: 66.10	SHEET 1 OF 1

NOTE:

1. TO BE FABRICATED FROM 0.19 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

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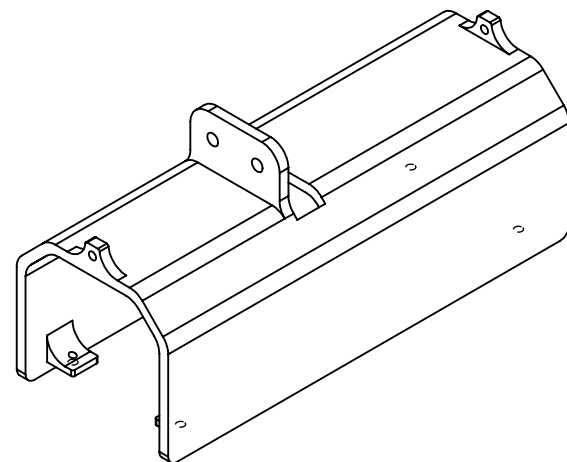
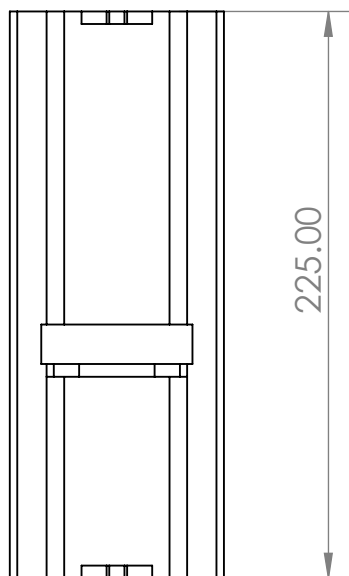
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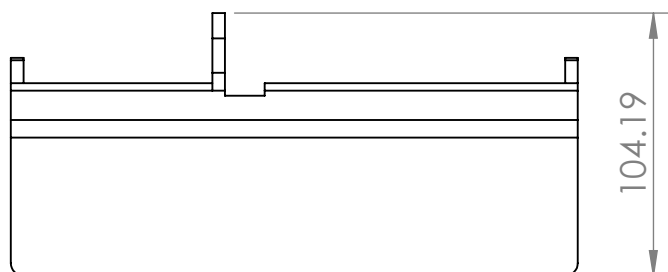
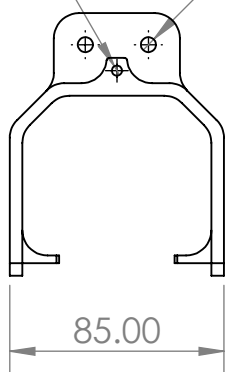
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Ø 4.00 THRU Ø 6.00 THRU



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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA 12/9/21
TOLERANCES:		CHECKED	JAKE 12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED	
ONE PLACE DECIMAL	±0.5		
TWO PLACE DECIMAL	±0.25		
MATERIAL	ABS	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	
FINISH	SPRAY PAINT		



THE NILE PROJECT

TITLE:

GANTRY DRIVE ENCLOSURE TOP

SIZE	DWG. NO.	REV
A	NILE_P1019	0
SCALE: 1:5	WEIGHT: 245.96	SHEET 1 OF 1

4

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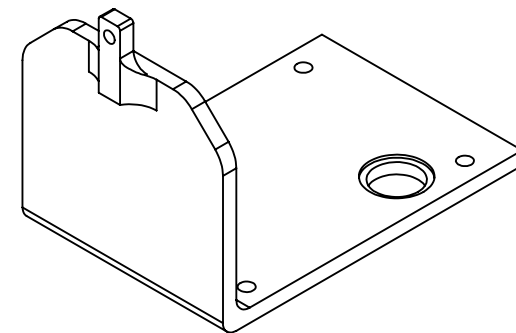
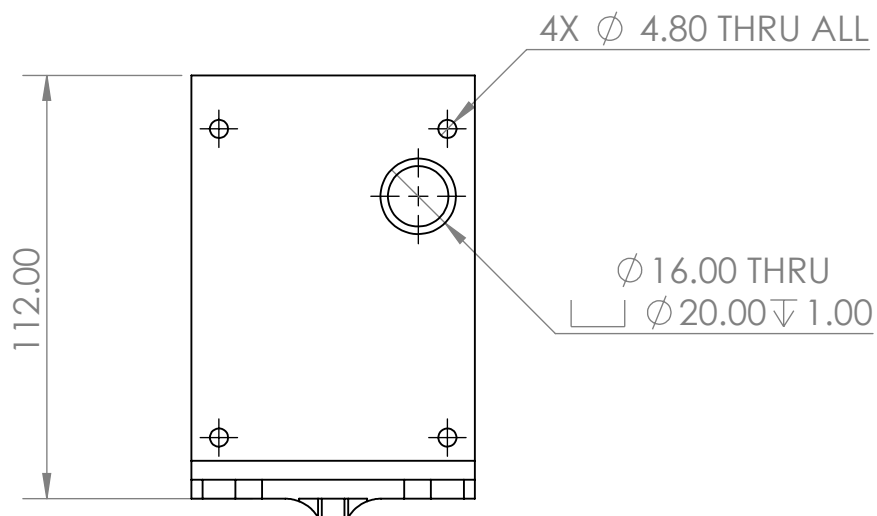
3

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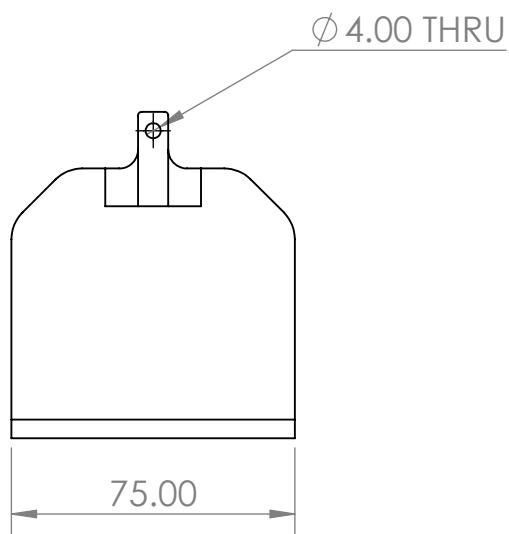


C

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	LACH 12/9/21
TOLERANCES:		CHECKED	HOPPEA 12/9/21
ANGULAR ±1°		FREE AND UNENCUMBERED	
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ABS	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	
FINISH	SPRAY PAINT COATING		



THE NILE PROJECT

TITLE:

GANTRY DRIVE ENCLOSURE, REAR

SIZE	DWG. NO.	REV
A	NILE_P1020	0
SCALE: 1:2	WEIGHT: 66.85	SHEET 1 OF 1

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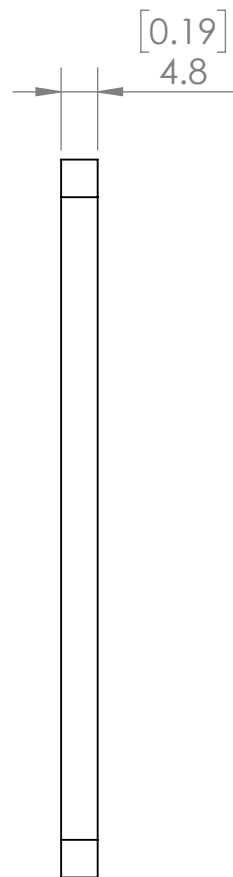
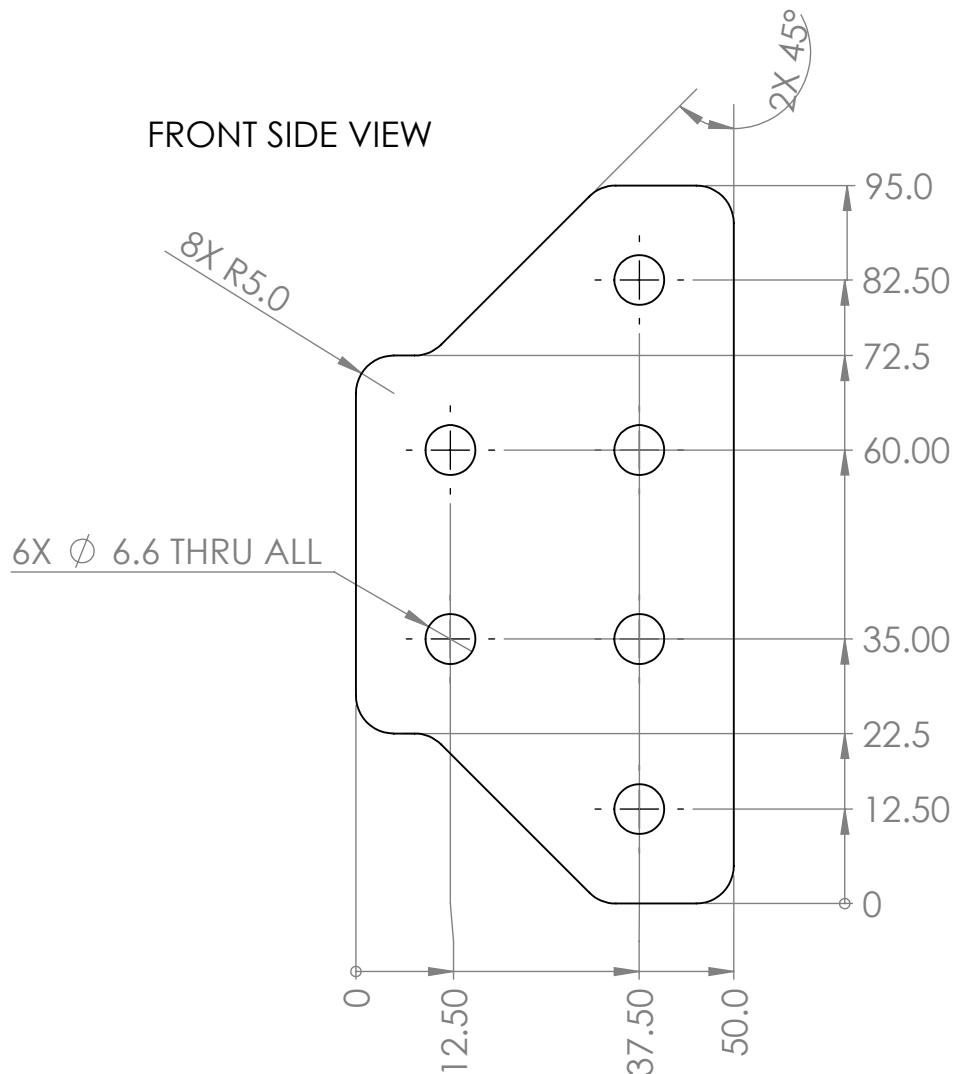
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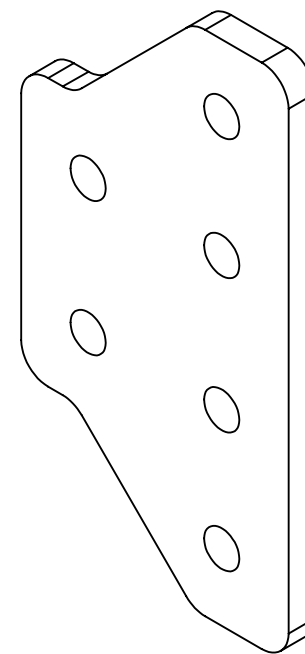
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FRONT SIDE VIEW



RIGHT SIDE VIEW

ISOMETRIC VIEW



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NOTE:

1. TO BE FABRICATED FROM 0.19 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	LACHLAN	12/9/21
TOLERANCES:	CHECKED	HOPPEA	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
6061-T6 (SS)			
FINISH	N/A		



THE NILE PROJECT

TITLE:

BACKPLATE FOR MAILBOX
ASSEMBLY

SIZE	DWG. NO.	REV
A	NILE_P1021	0
SCALE: 1:1	WEIGHT: 46.58	SHEET 1 OF 1

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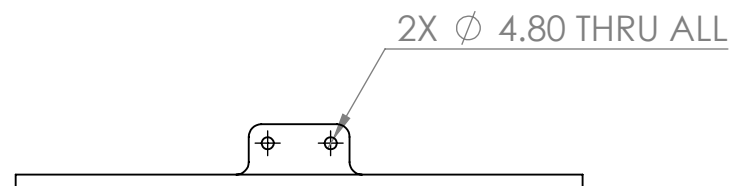
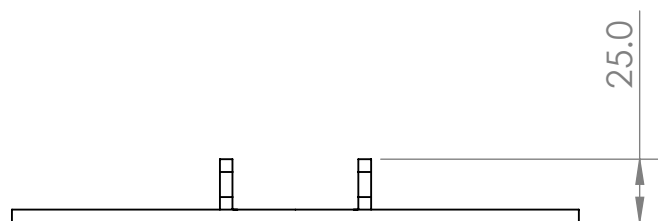
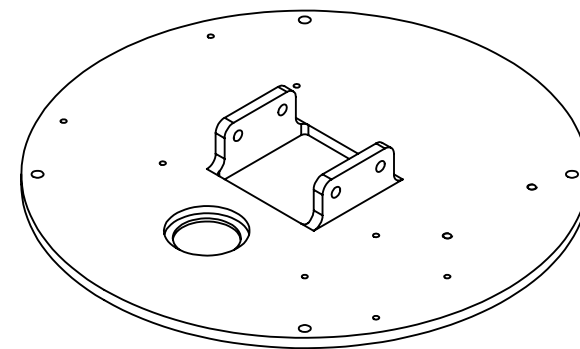
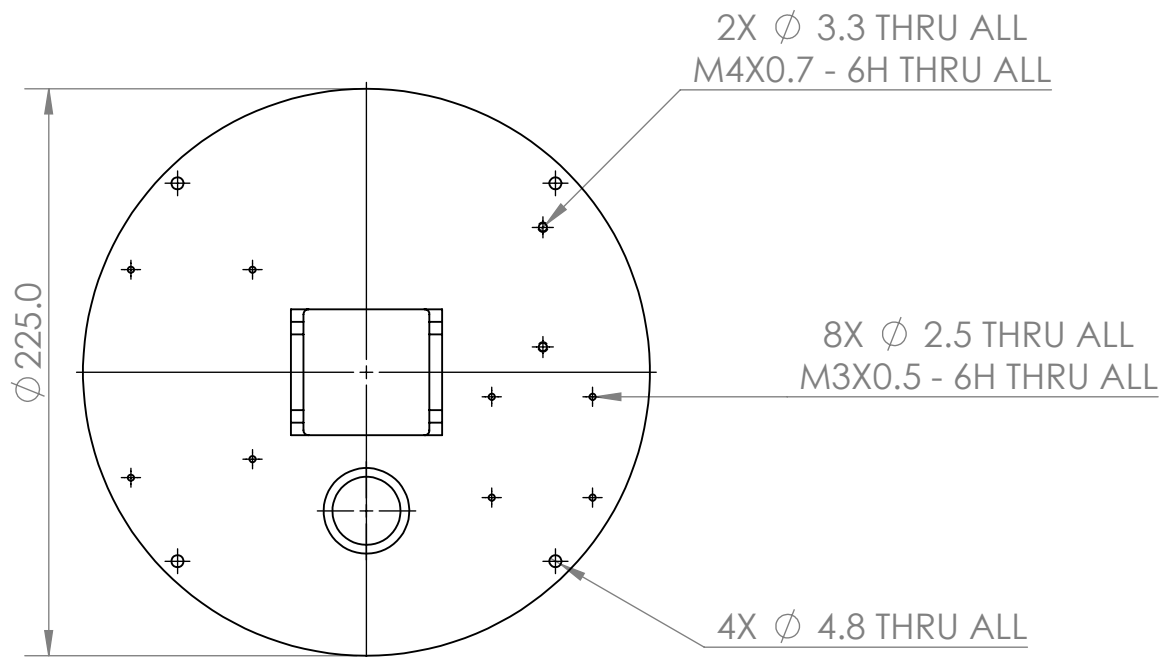
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THE NILE PROJECT

TITLE:

ROTATIONAL JOINT
ELECTRICAL BOX,
BOTTOM

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	WOODRUFF	J12/9/21
TOLERANCES:	CHECKED	HOPPEA	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON- COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL ABS			
FINISH SPRAY PAINT COATING			

SIZE	DWG. NO.	REV
A	NILE_P1024	0
SCALE: 1:5	WEIGHT: 193.06	SHEET 1 OF 1

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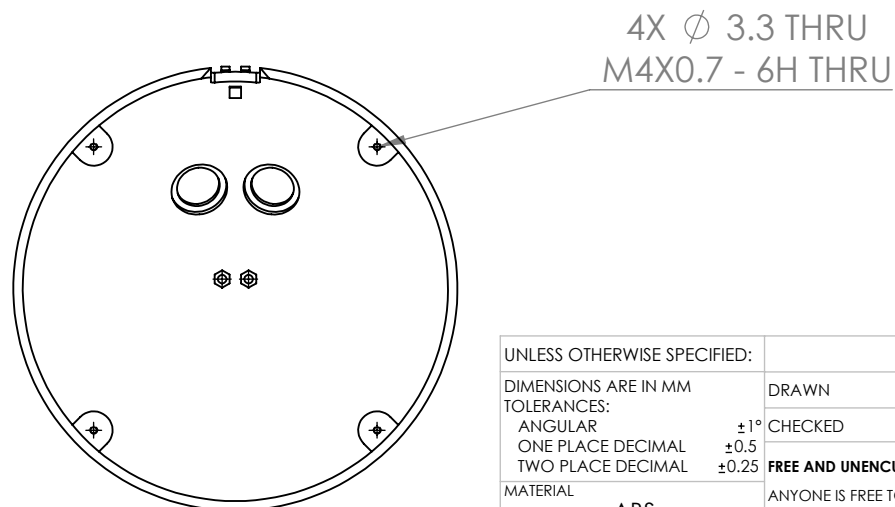
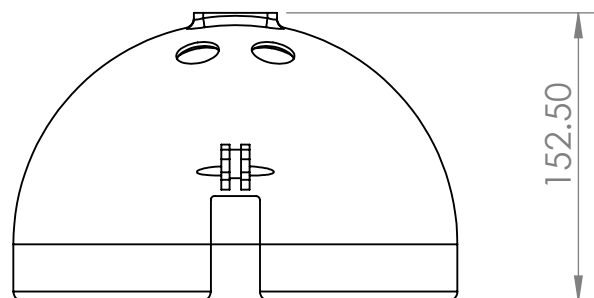
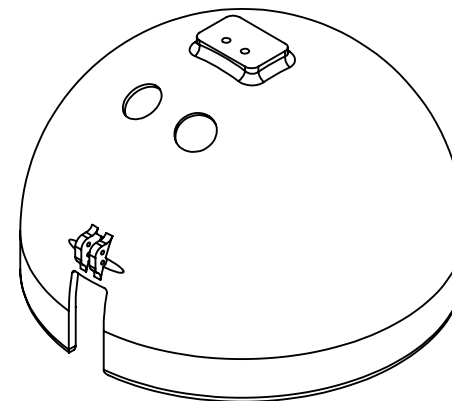
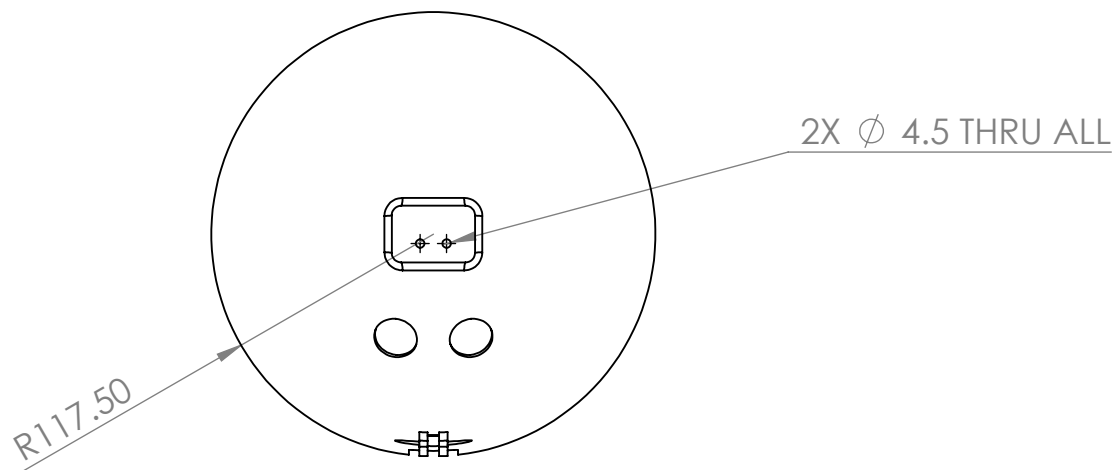
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UNLESS OTHERWISE SPECIFIED:			NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	WOODRUFF	J12/9/21
TOLERANCES:		CHECKED	HOPPEA	12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL	±0.5			
TWO PLACE DECIMAL	±0.25			
MATERIAL		ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ABS				
FINISH				
SPRAY PAINT COATING				



TITLE:

ROTATIONAL JOINT
ELECTRICAL BOX, TOP

SIZE	DWG. NO.	REV
A	NILE_P1025	0
SCALE: 1:5	WEIGHT: 532.93	SHEET 1 OF 1

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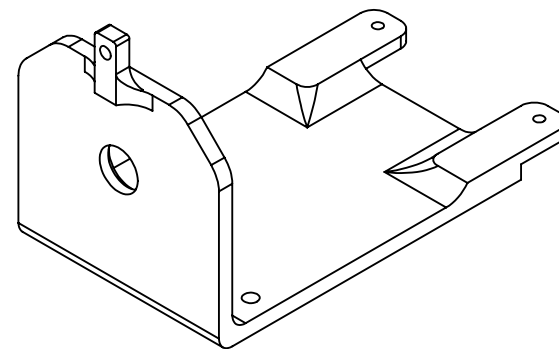
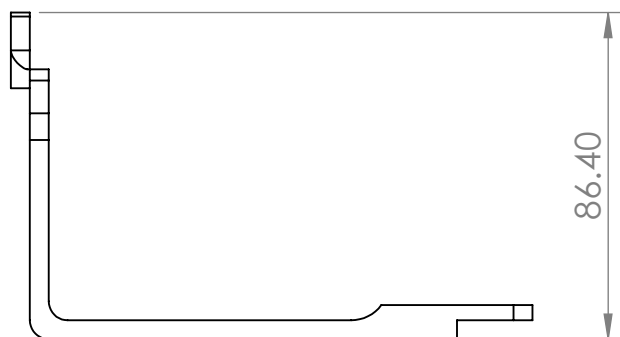
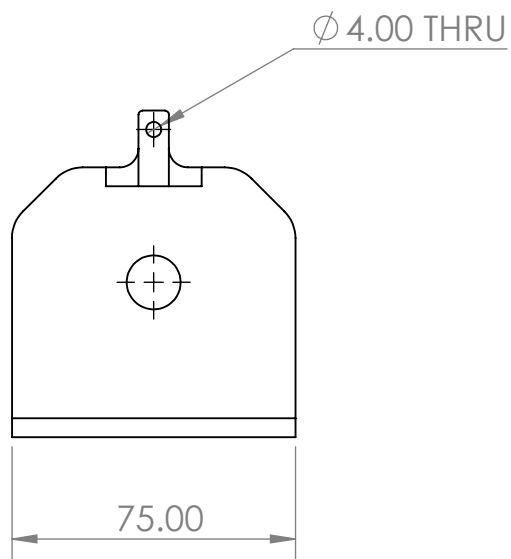
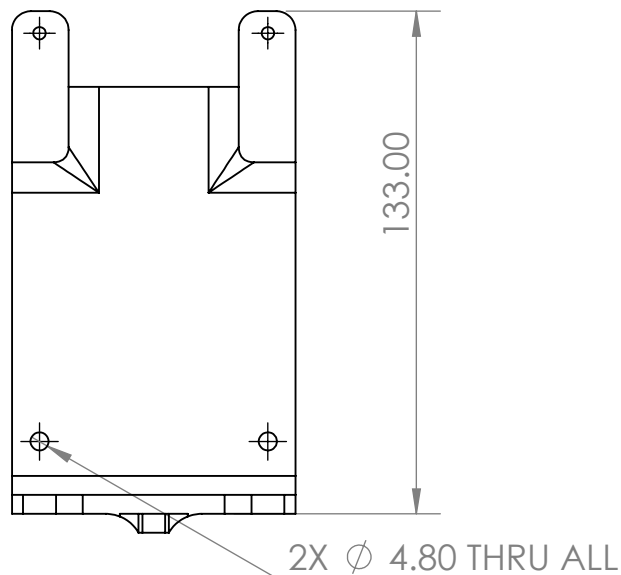
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	LACH	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ±0.5	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
TWO PLACE DECIMAL ±0.25			
MATERIAL			
ABS			
FINISH			
SPRAY PAINT COATING			



THE NILE PROJECT

TITLE:

GANTRY DRIVE
ENCLOSURE, FRONT

SIZE	DWG. NO.	REV
A	NILE_P1026	0
SCALE: 1:2	WEIGHT: 72.75	SHEET 1 OF 1

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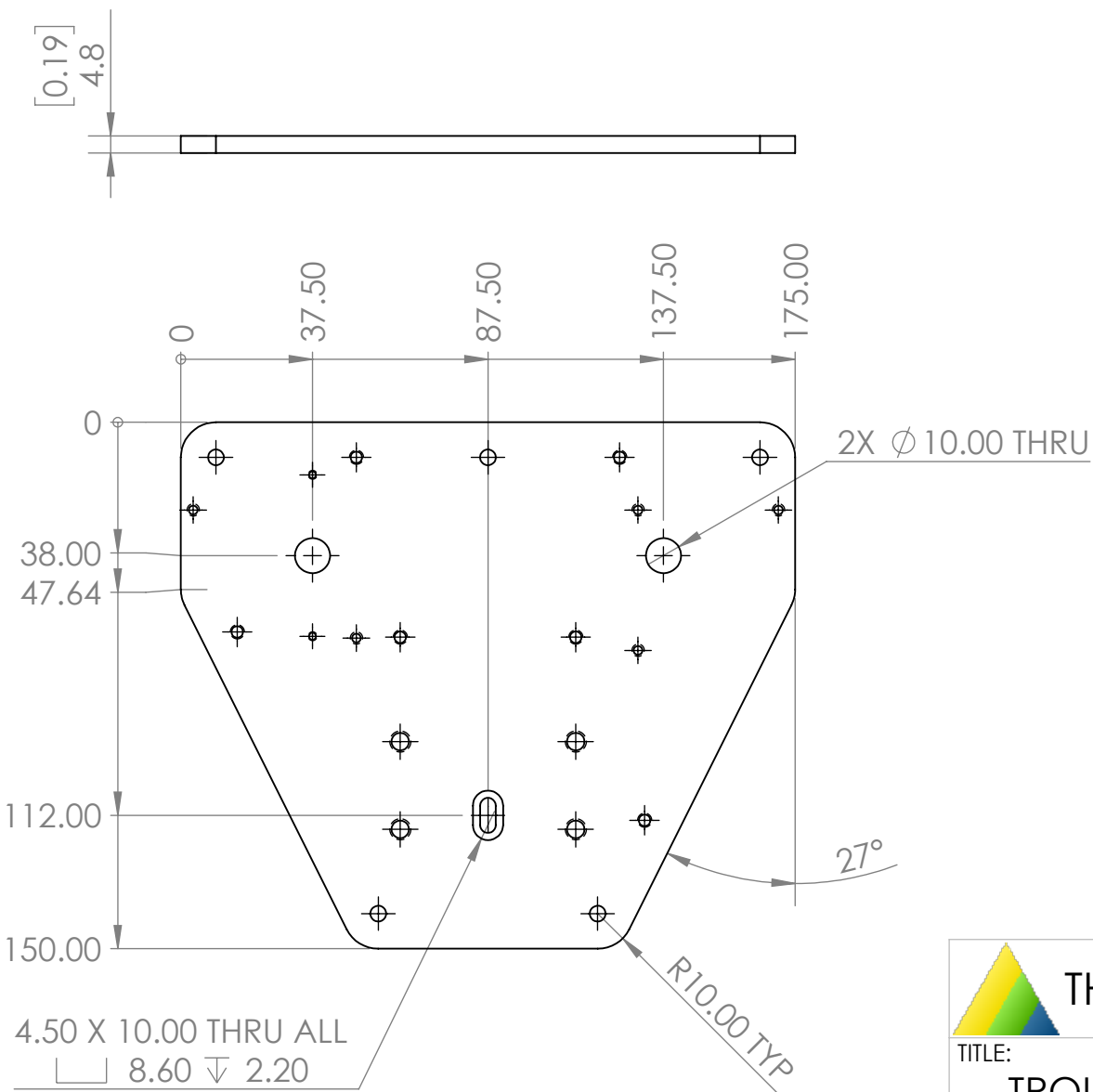
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NOTE:

1. TO BE FABRICATED FROM 0.19 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED	
ONE PLACE DECIMAL	±0.5		
TWO PLACE DECIMAL	±0.25		
MATERIAL	6061-T6 (SS)	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	
FINISH	N/A		

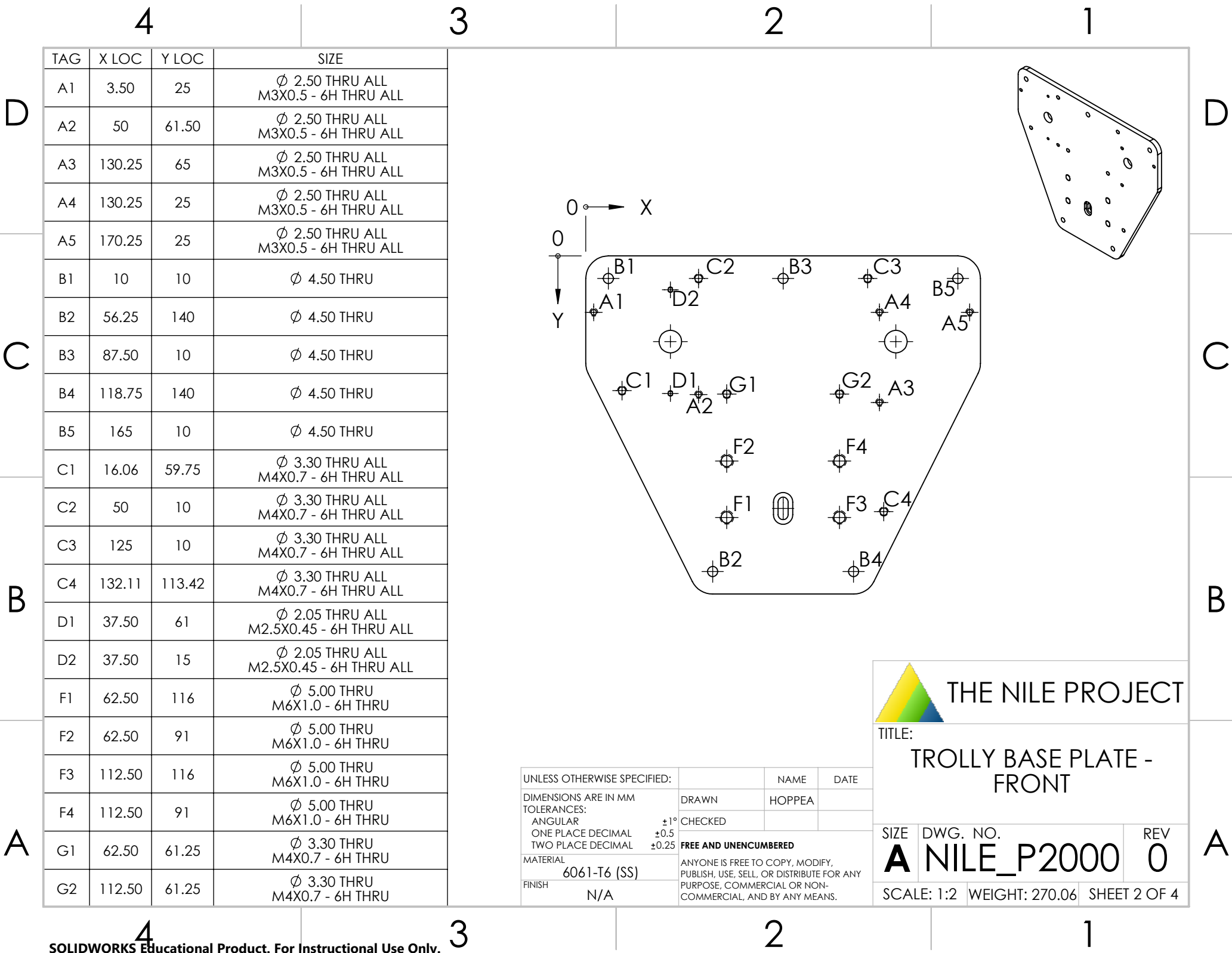


THE NILE PROJECT

TITLE:

TROLLY BASE PLATE -
FRONT

SIZE	DWG. NO.	REV
A	NILE_P2000	0
SCALE: 1:2	WEIGHT: 270.06	SHEET 1 OF 4



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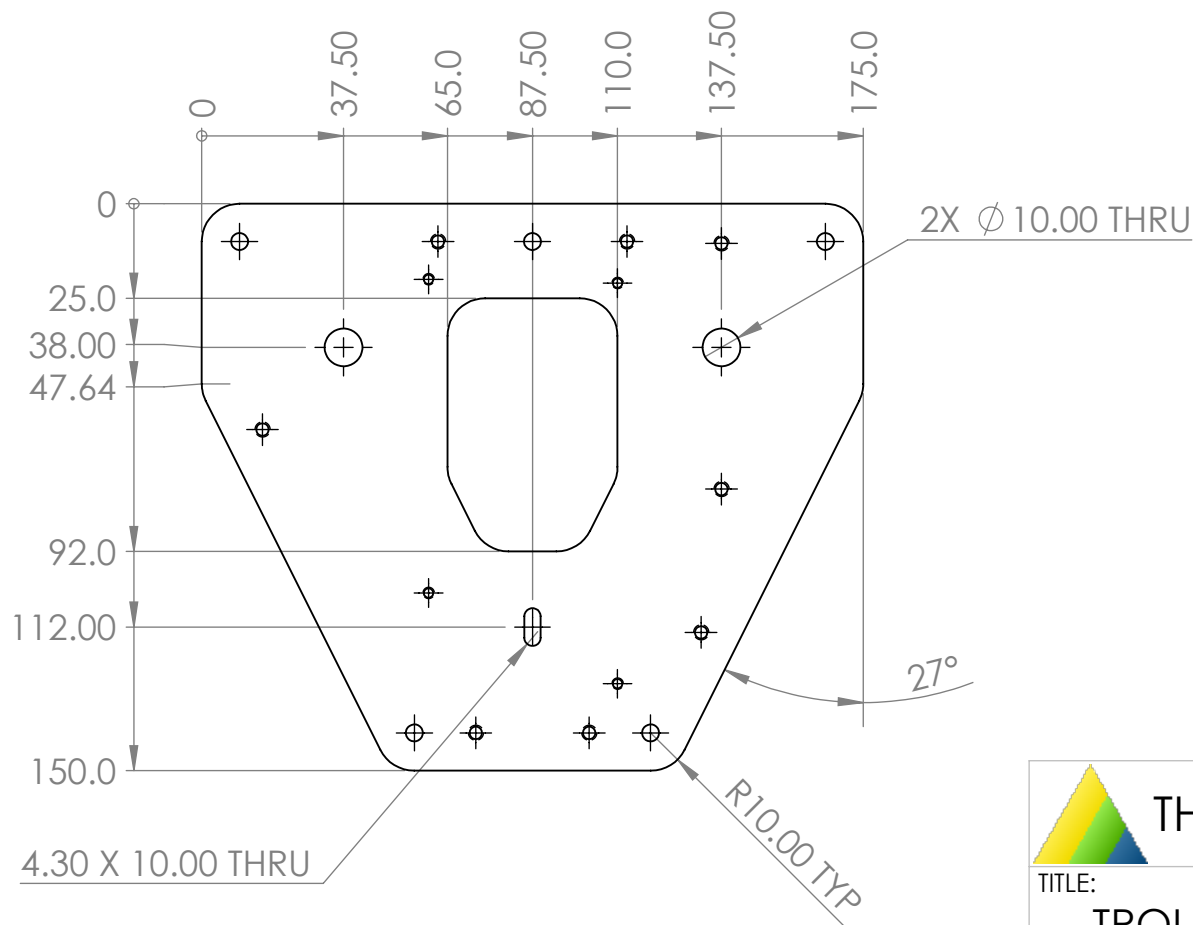
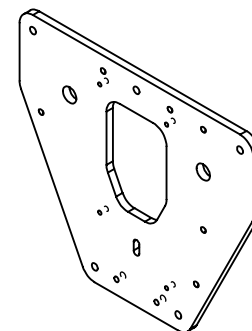
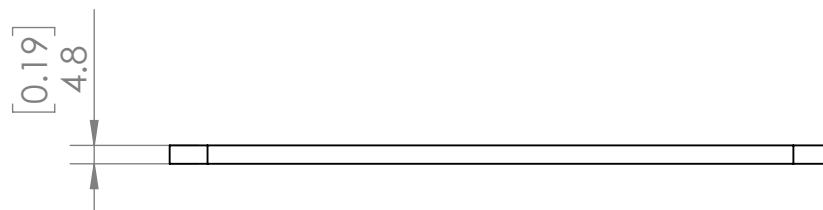
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**NOTE:**

1. TO BE FABRICATED FROM 0.19 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	
TOLERANCES:	CHECKED		
ANGULAR ±1°	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL 6061-T6 (SS)			
FINISH N/A			



THE NILE PROJECT

TITLE:

TROLLY BASE PLATE -
REAR

SIZE	DWG. NO.	REV
A	NILE_P2000	0
SCALE: 1:2	WEIGHT: 270.06	SHEET 3 OF 4

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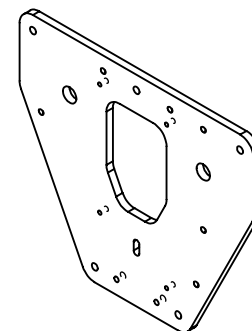
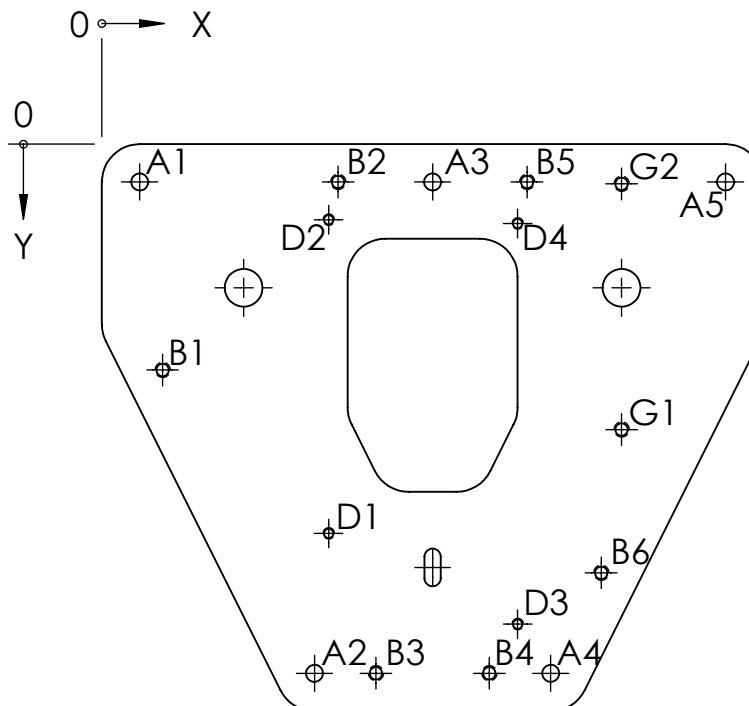
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TAG	X LOC	Y LOC	SIZE
A1	10	10	Ø 4.50 THRU
A2	56.25	140	Ø 4.50 THRU
A3	87.50	10	Ø 4.50 THRU
A4	118.75	140	Ø 4.50 THRU
A5	165	10	Ø 4.50 THRU
B1	16.06	59.75	Ø 3.30 THRU ALL M4X0.7 - 6H THRU ALL
B2	62.50	10	Ø 3.30 THRU ALL M4X0.7 - 6H THRU ALL
B3	72.50	140	Ø 3.30 THRU ALL M4X0.7 - 6H THRU ALL
B4	102.50	140	Ø 3.30 THRU ALL M4X0.7 - 6H THRU ALL
B5	112.50	10	Ø 3.30 THRU ALL M4X0.7 - 6H THRU ALL
B6	132.11	113.42	Ø 3.30 THRU ALL M4X0.7 - 6H THRU ALL
D1	60	103	Ø 2.50 THRU ALL M3X0.5 - 6H THRU ALL
D2	60	20	Ø 2.50 THRU ALL M3X0.5 - 6H THRU ALL
D3	110	127	Ø 2.50 THRU ALL M3X0.5 - 6H THRU ALL
D4	110	21	Ø 2.50 THRU ALL M3X0.5 - 6H THRU ALL
G1	137.50	75.50	Ø 3.30 THRU M4X0.7 - 6H THRU
G2	137.50	10.50	Ø 3.30 THRU M4X0.7 - 6H THRU



THE NILE PROJECT

TITLE:

TROLLEY BASE PLATE -
REAR

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	
TOLERANCES:	CHECKED		
ANGULAR ±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON- COMMERCIAL, AND BY ANY MEANS.		
6061-T6 (SS)			
FINISH	N/A		

SIZE	DWG. NO.	REV
A	NILE_P2000	0
SCALE: 1:2	WEIGHT: 270.06	SHEET 4 OF 4

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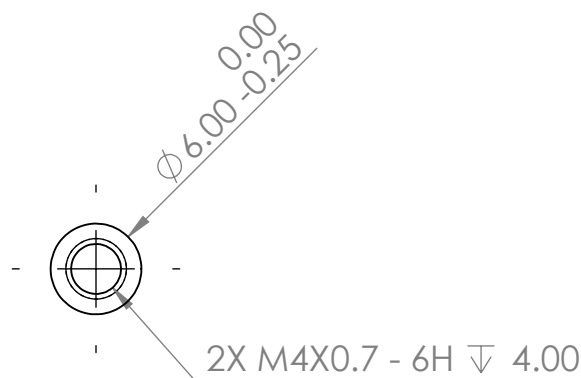
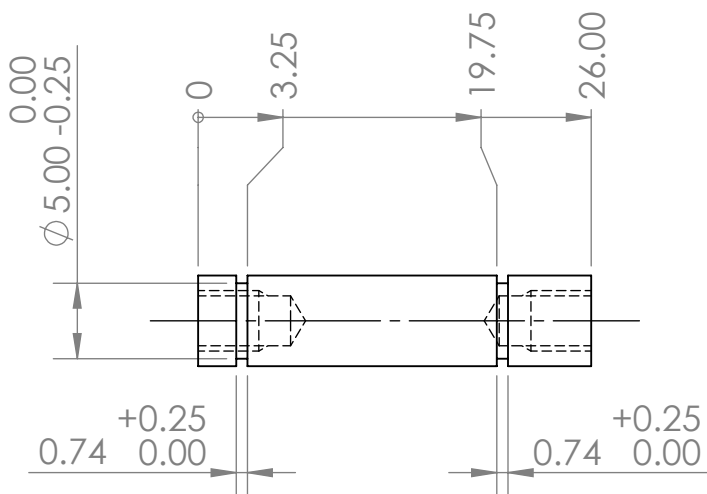
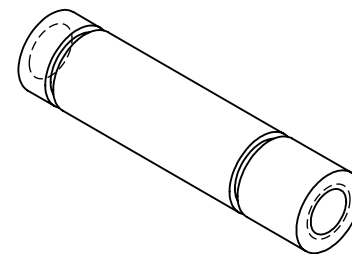
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**NOTE:**

1. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL			
FINISH			
AISI 304			
N/A			

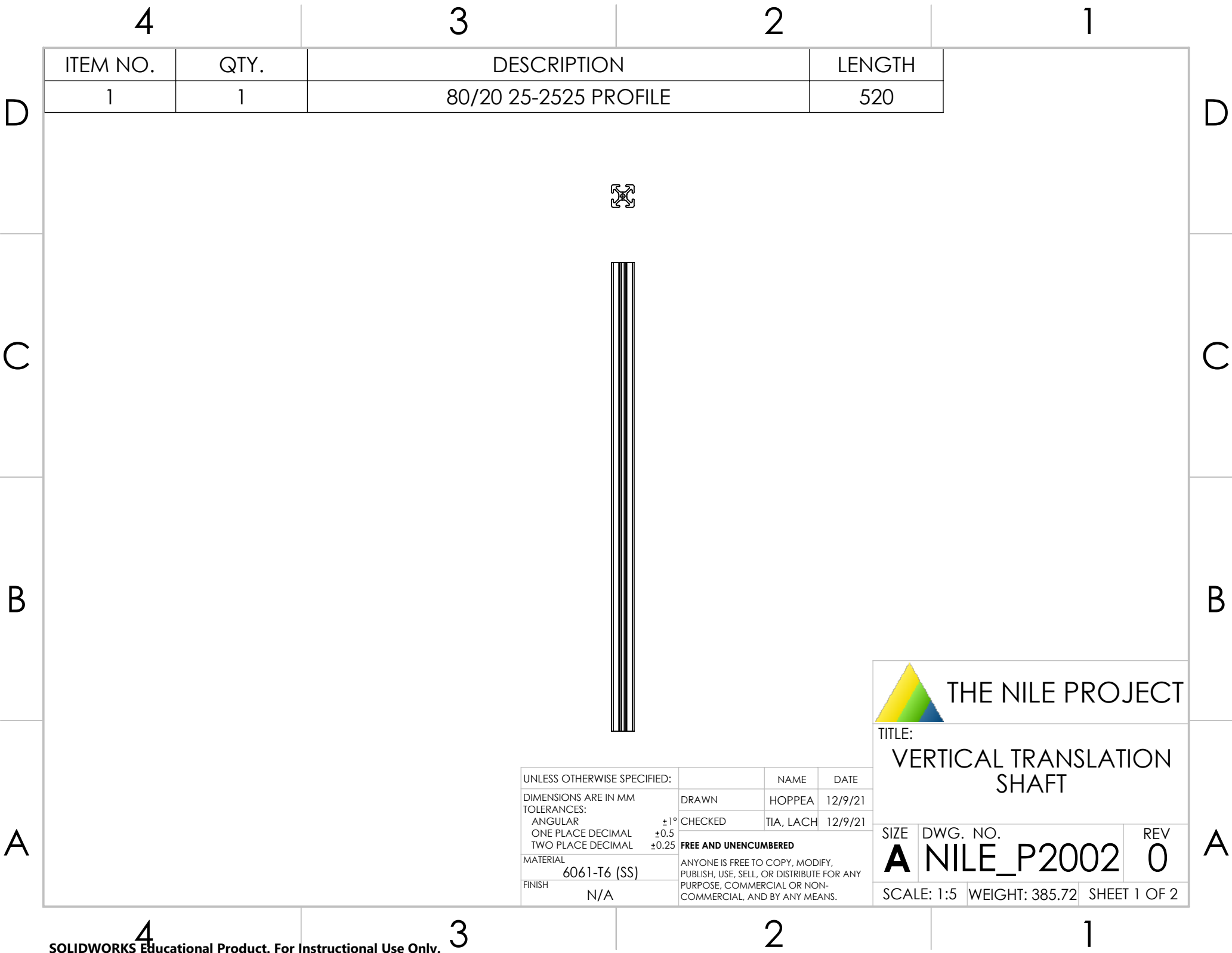


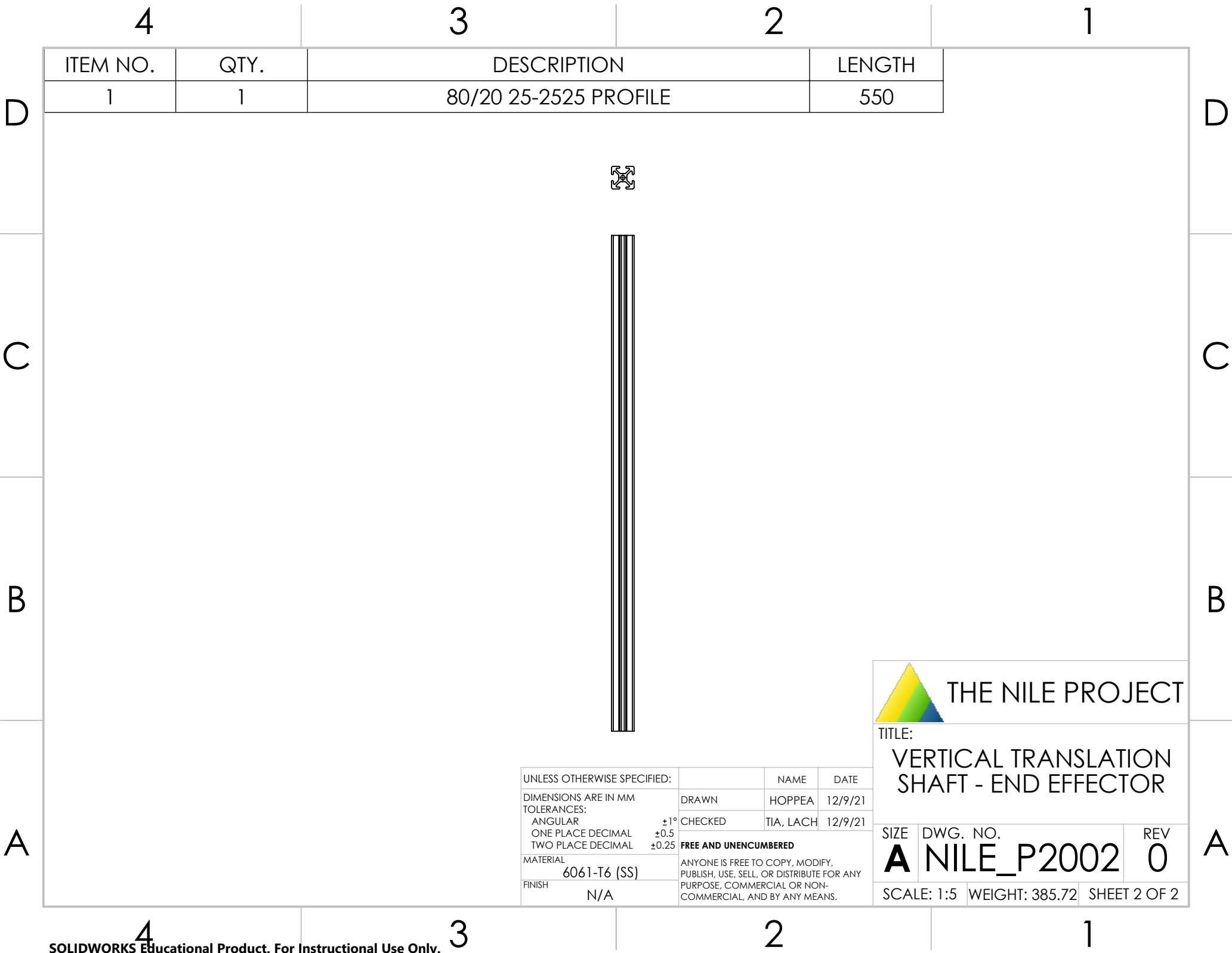
THE NILE PROJECT

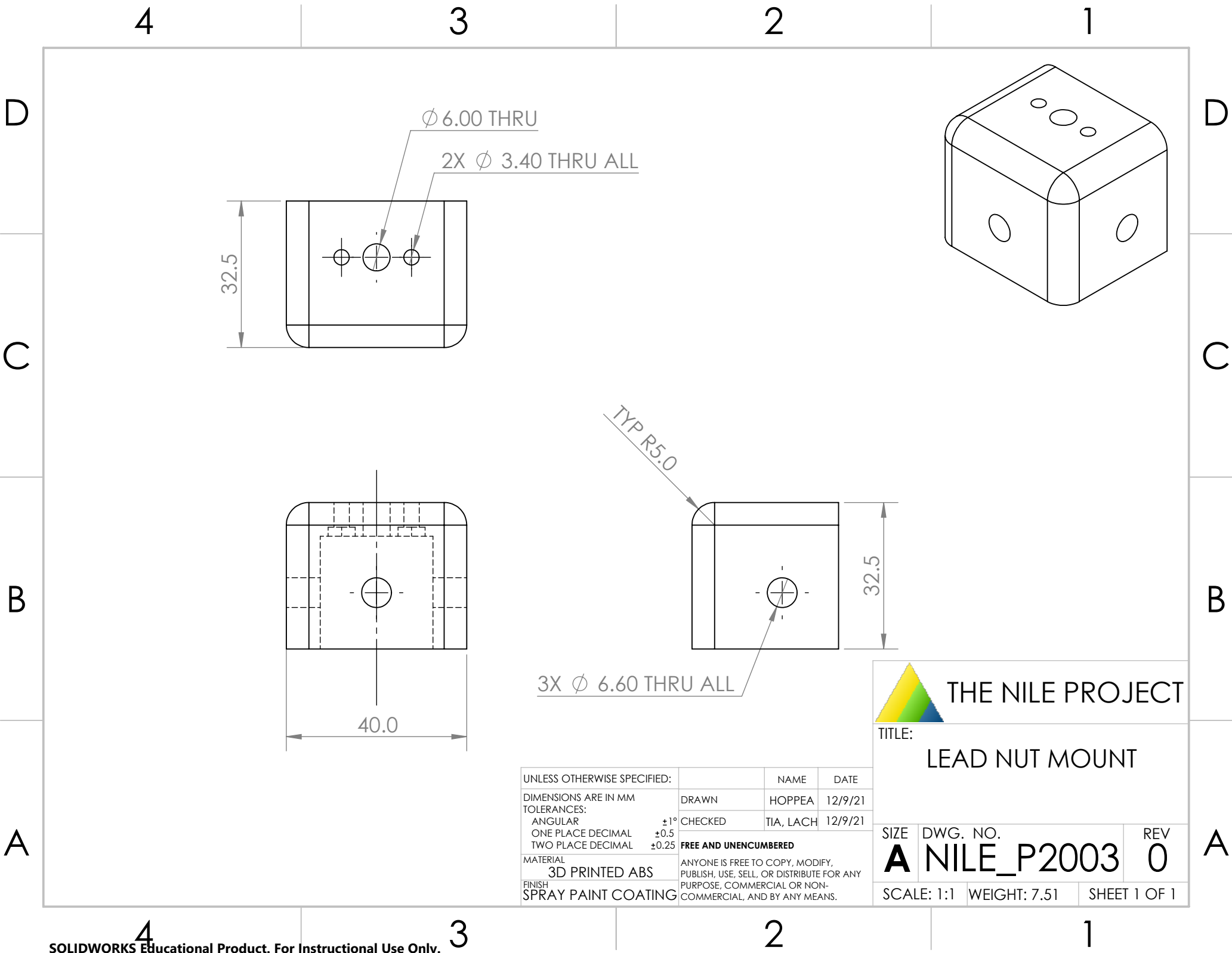
TITLE:

IDLE WHEEL AXLE

SIZE	DWG. NO.	REV
A	NILE_P2001	0
SCALE: 2:1	WEIGHT: 4.90	SHEET 1 OF 1







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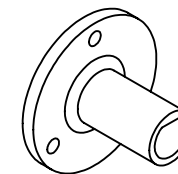
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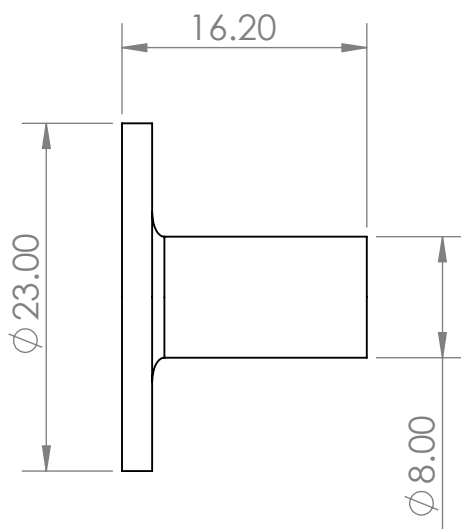
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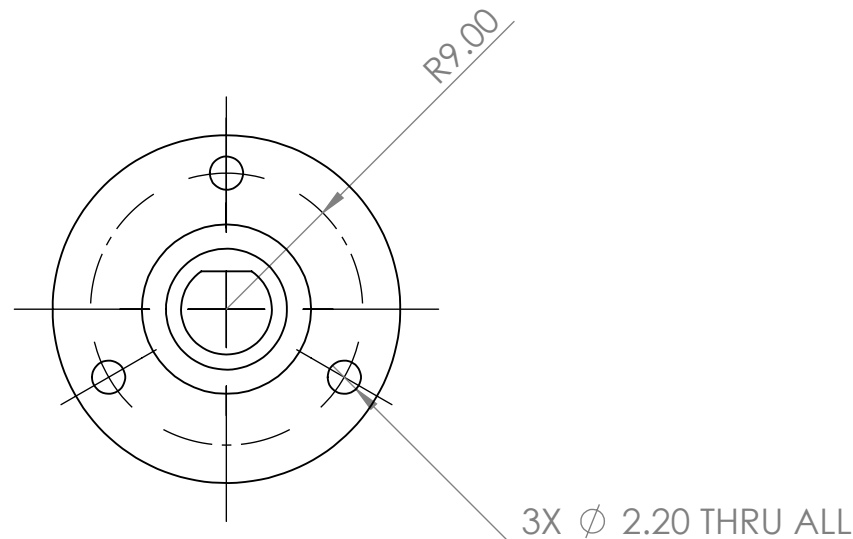
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THE NILE PROJECT

TITLE:

DRIVEN WHEEL INSERT

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
3D PRINTED ABS			
FINISH	N/A		

SIZE

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DWG. NO.

NILE_P2004

REV

0

SCALE: 2:1

WEIGHT: 0.33

SHEET 1 OF 2

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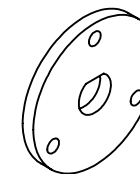
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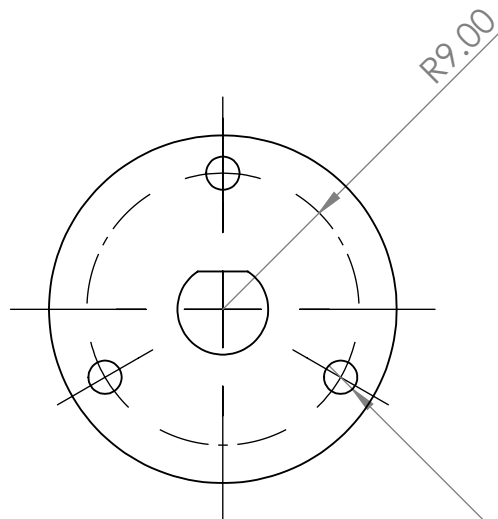
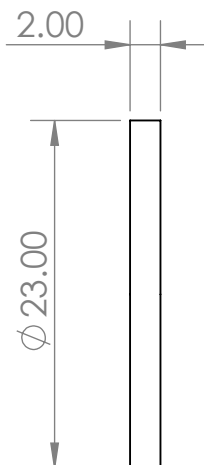
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL			
3D PRINTED ABS			
FINISH			
N/A			



THE NILE PROJECT

TITLE:

DRIVEN WHEEL INSERT -
RECEIVER

SIZE	DWG. NO.	REV
A	NILE_P2004	0
SCALE: 2:1	WEIGHT: 0.33	SHEET 2 OF 2

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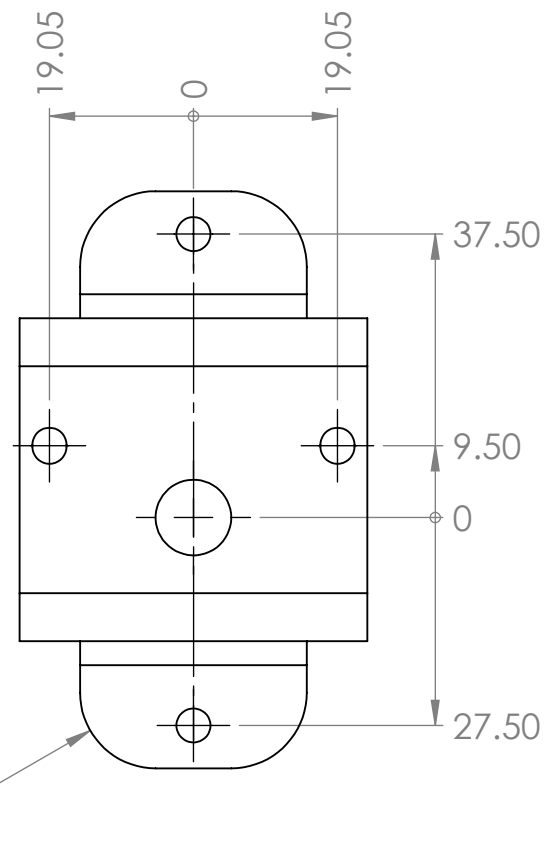
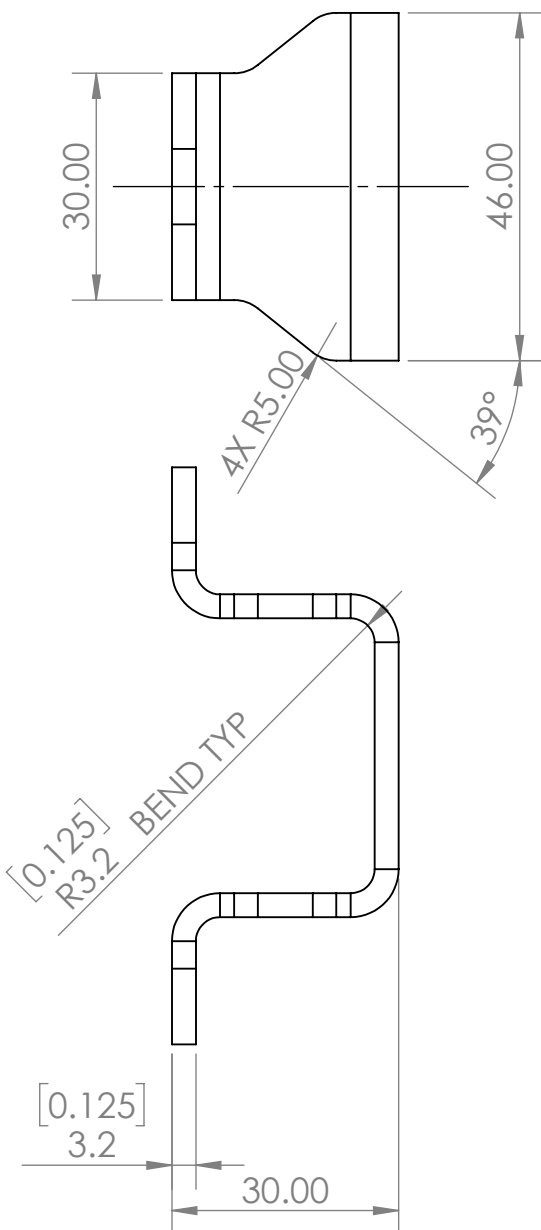
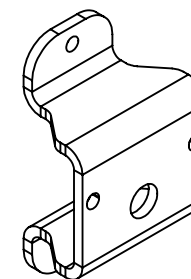
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**NOTE:**

1. TO BE FABRICATED FROM 1/8 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:			NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA	12/9/21
TOLERANCES:		CHECKED	TIA, LACH	12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL	±0.5			
TWO PLACE DECIMAL	±0.25			
MATERIAL		ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
6061-T6 (SS)				
FINISH				
N/A				

 THE NILE PROJECT			
TITLE: TRANSLATIONAL MOTOR MOUNT			
SIZE	DWG. NO.	REV	
A	NILE_P2005	0	
SCALE: 1:1	WEIGHT: 37.90	SHEET 1 OF 2	

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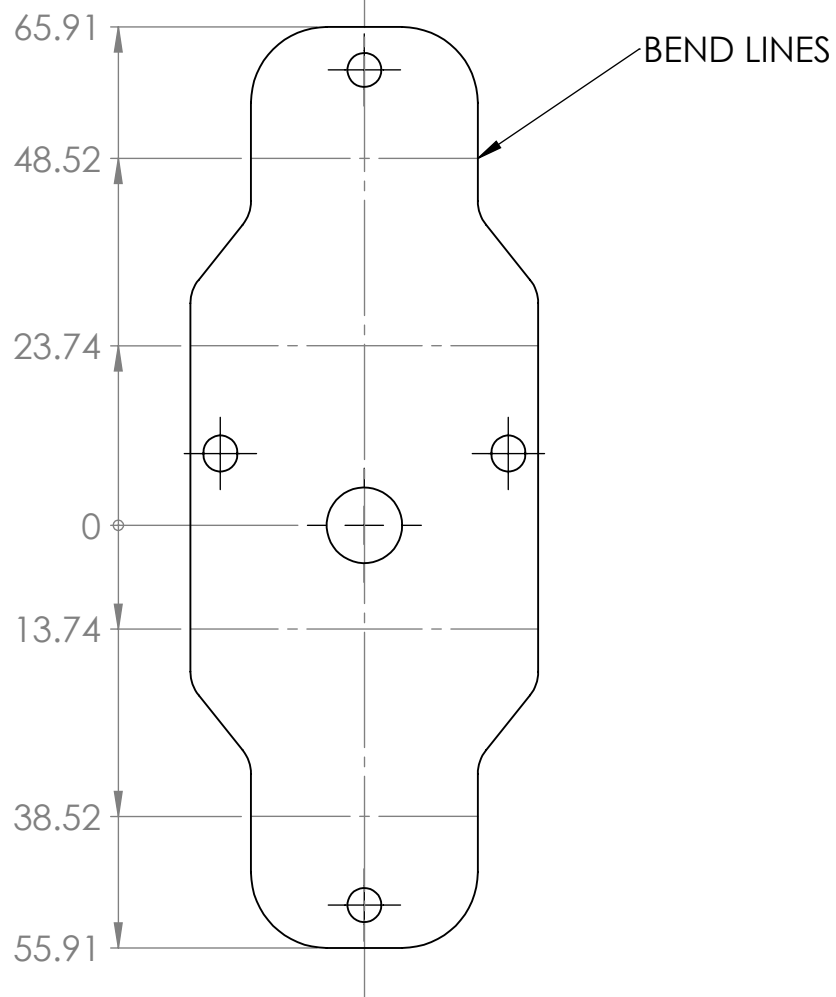
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**NOTE:**

1. TO BE FABRICATED FROM 1/8 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:

ANGULAR $\pm 1^\circ$
 ONE PLACE DECIMAL ± 0.5
 TWO PLACE DECIMAL ± 0.25

MATERIAL

6061-T6 (SS)

FINISH

N/A

DRAWN

NAME

HOPPEA

DATE

12/9/21

CHECKED

TIA, LACH

12/9/21

FREE AND UNENCUMBERED

ANYONE IS FREE TO COPY, MODIFY,
 PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY
 PURPOSE, COMMERCIAL OR NON-
 COMMERCIAL, AND BY ANY MEANS.



THE NILE PROJECT

TITLE:

TRANSLATIONAL MOTOR
MOUNT

SIZE

A

DWG. NO.

NILE_P2005

REV

0

SCALE: 1:1

WEIGHT: 37.90

SHEET 2 OF 2

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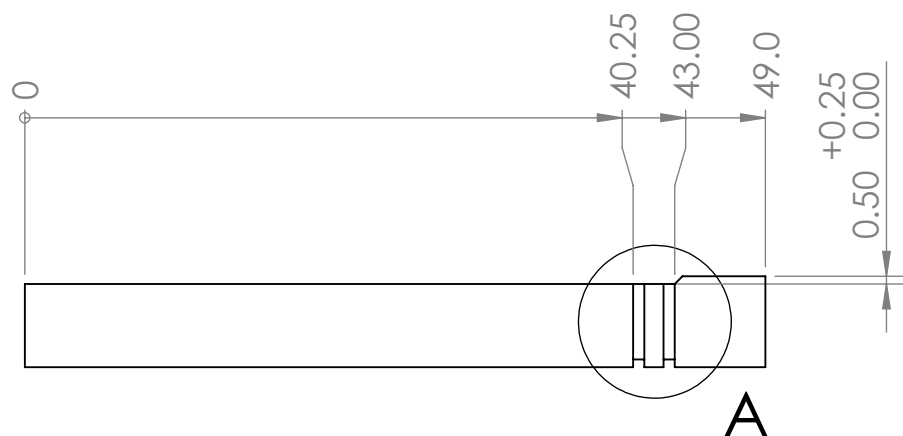
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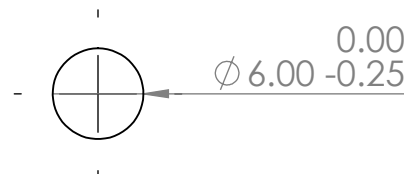
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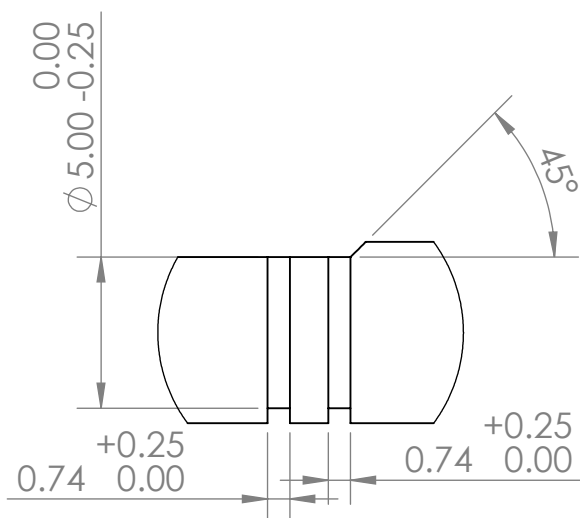


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DETAIL A

SCALE 4 : 1

NOTE:

- DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:			NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA	12/9/21
TOLERANCES:		CHECKED	TIA, LACH	12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL	±0.5			
TWO PLACE DECIMAL	±0.25			
MATERIAL		ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
AISI 304				
FINISH				
N/A				



THE NILE PROJECT

TITLE:

TROLLEY DRIVEN WHEEL
AXLE - ENCODER

SIZE	DWG. NO.	REV
A	NILE_P2006	0
SCALE: 2:1	WEIGHT: 10.61	SHEET 1 OF 2

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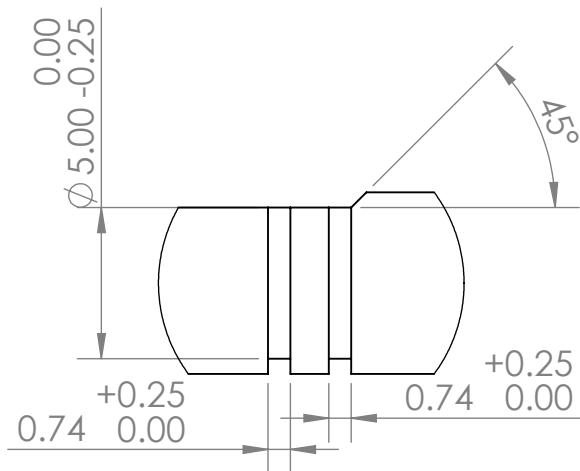
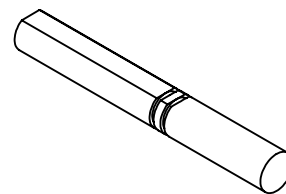
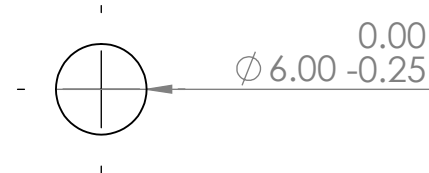
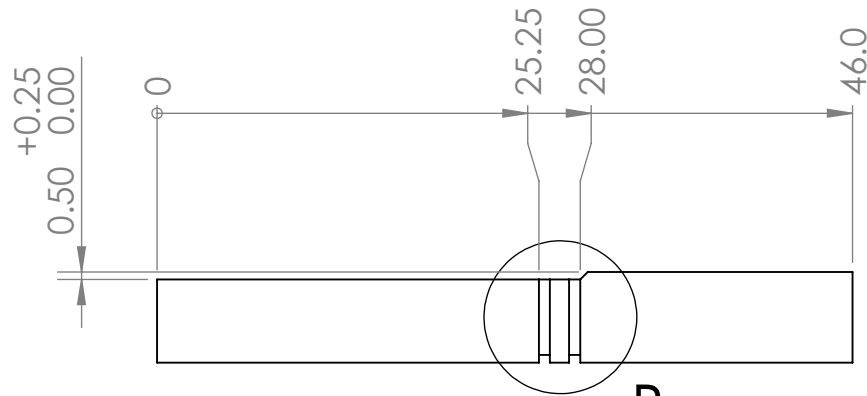
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DETAIL B

SCALE 4 : 1

NOTE:

1. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
FINISH			
AISI 304			
N/A			

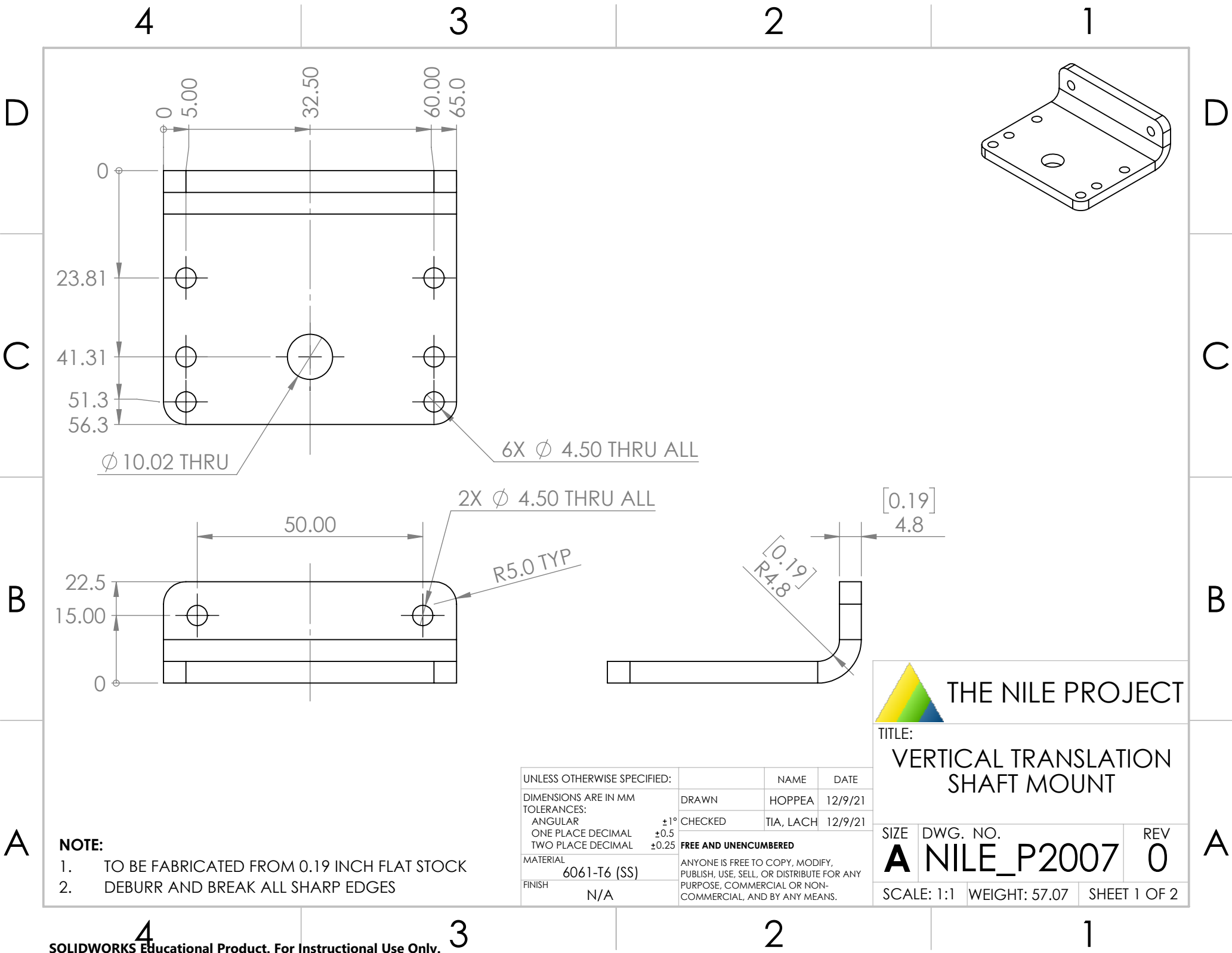


THE NILE PROJECT

TITLE:

TROLLY DRIVEN WHEEL
AXLE - MOTOR

SIZE	DWG. NO.	REV
A	NILE_P2006	0
SCALE: 2:1	WEIGHT: 10.61	SHEET 2 OF 2



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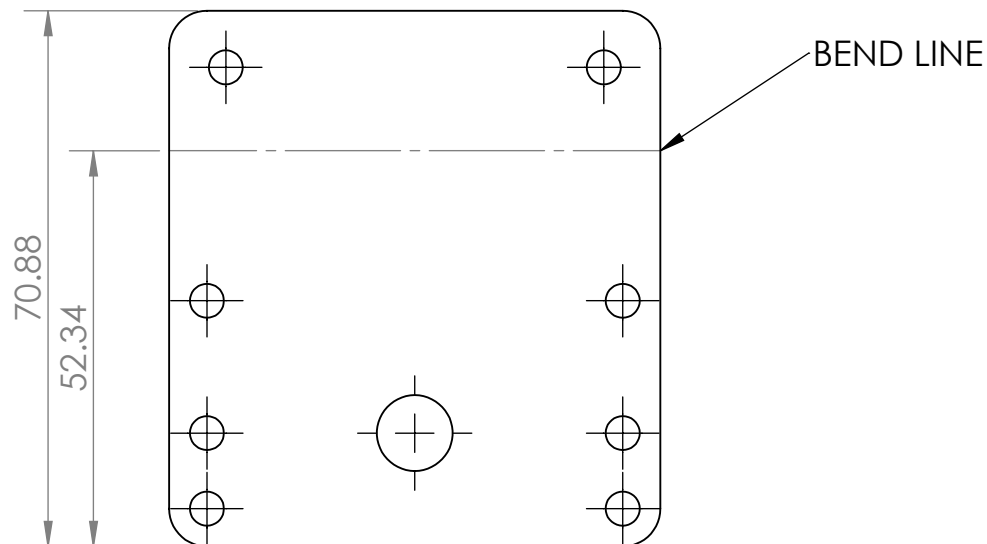
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**NOTE:**

1. TO BE FABRICATED FROM 0.19 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL			
6061-T6 (SS)			
FINISH			
N/A			



THE NILE PROJECT

TITLE:

VERTICAL TRANSLATION
SHAFT MOUNT

SIZE	DWG. NO.	REV
A	NILE_P2007	0
SCALE: 1:1	WEIGHT: 57.07	SHEET 2 OF 2

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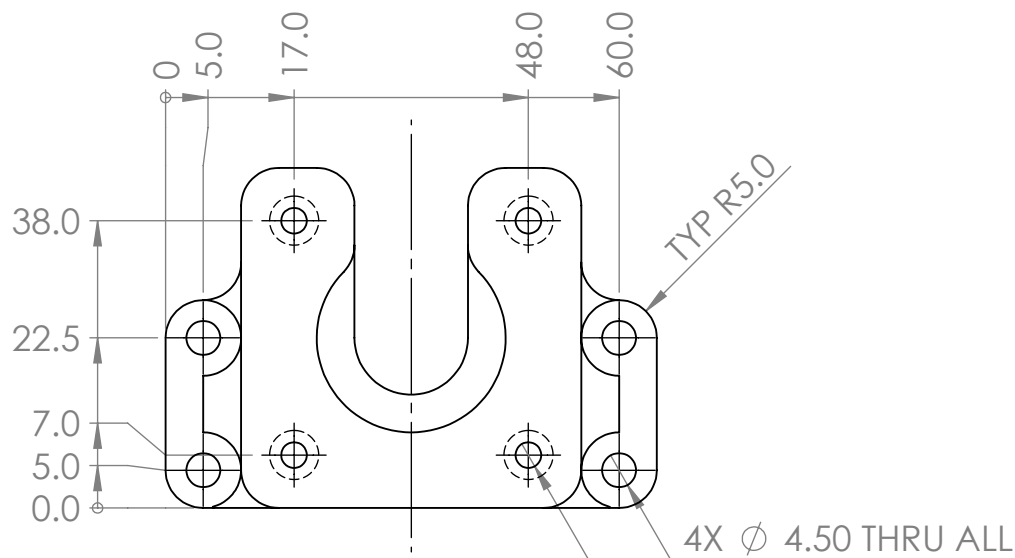
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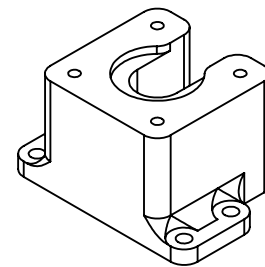
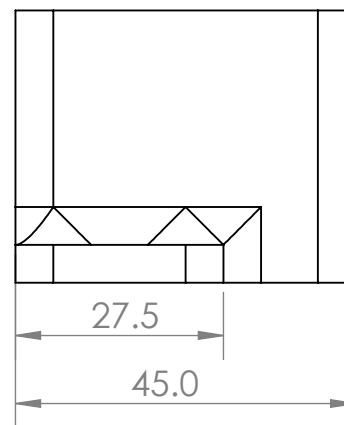
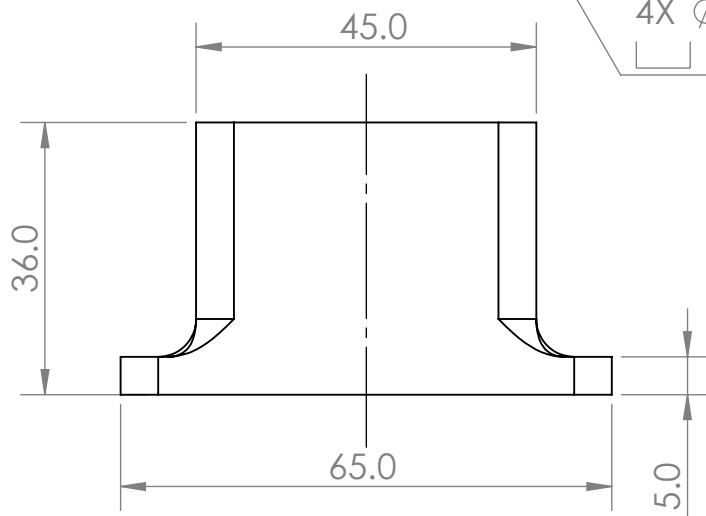
B

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4X Ø 3.40 THRU ALL
 □ Ø 6.50 ▽ 26.00



THE NILE PROJECT

TITLE:

STEPPER MOTOR MOUNT

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ABS			
FINISH	N/A		

SIZE	DWG. NO.	REV
A	NILE_P2008	0
SCALE: 1:1	WEIGHT: 55.77	SHEET 1 OF 1

4

3

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205.0

M4X0.7 - 6H THRU

4X \varnothing 4.80 THRU ALL
 \square \varnothing 10.00 ∇ 70.00

225.0

97.8



THE NILE PROJECT

TITLE:

TROLLY ENCLOSURE -
FRONT

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:

ANGULAR $\pm 1^\circ$ ONE PLACE DECIMAL ± 0.5 TWO PLACE DECIMAL ± 0.25

MATERIAL

ABS

FINISH

SPRAY PAINT COATING

DRAWN

NAME

HOPPEA

DATE

12/9/21

CHECKED

TIA, LACH

12/9/21

FREE AND UNENCUMBERED

ANYONE IS FREE TO COPY, MODIFY,
 PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY
 PURPOSE, COMMERCIAL OR NON-
 COMMERCIAL, AND BY ANY MEANS.

SIZE

A

DWG. NO.

NILE_P2009

REV

0

SCALE: 1:5

WEIGHT: 577.26

SHEET 1 OF 2

4

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M4X0.7 - 6H THRU

205.0

4X \varnothing 4.80 THRU ALL
 \varnothing 10.00 ∇ 70.00

97.8

225.0



THE NILE PROJECT

TITLE:

TROLLY ENCLOSURE -
REAR

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES:

ANGULAR $\pm 1^\circ$
 ONE PLACE DECIMAL ± 0.5
 TWO PLACE DECIMAL ± 0.25

MATERIAL

ABS

FINISH
SPRAY PAINT COATING

DRAWN

NAME

HOPPEA

DATE

12/9/21

CHECKED

TIA, LACH

12/9/21

FREE AND UNENCUMBERED

ANYONE IS FREE TO COPY, MODIFY,
 PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY
 PURPOSE, COMMERCIAL OR NON-
 COMMERCIAL, AND BY ANY MEANS.

SIZE

A

DWG. NO.

NILE_P2009

REV

0

SCALE: 1:5

WEIGHT: 577.26

SHEET 2 OF 2

4

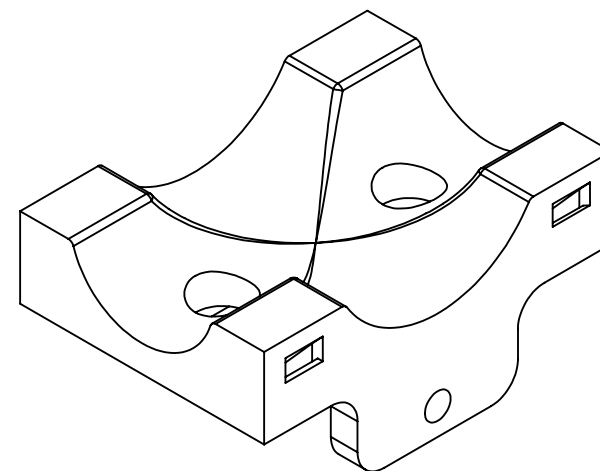
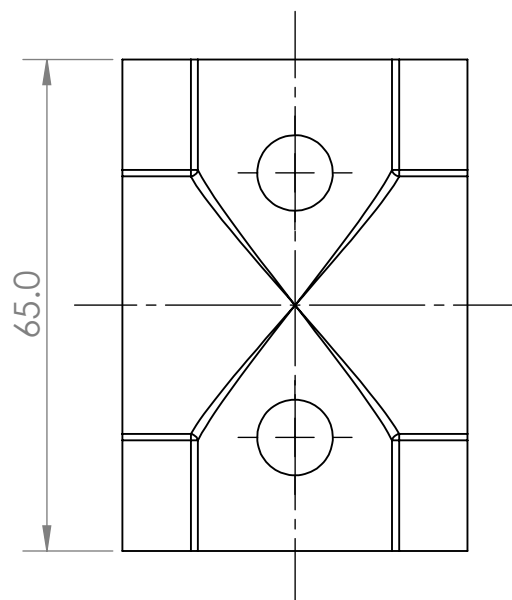
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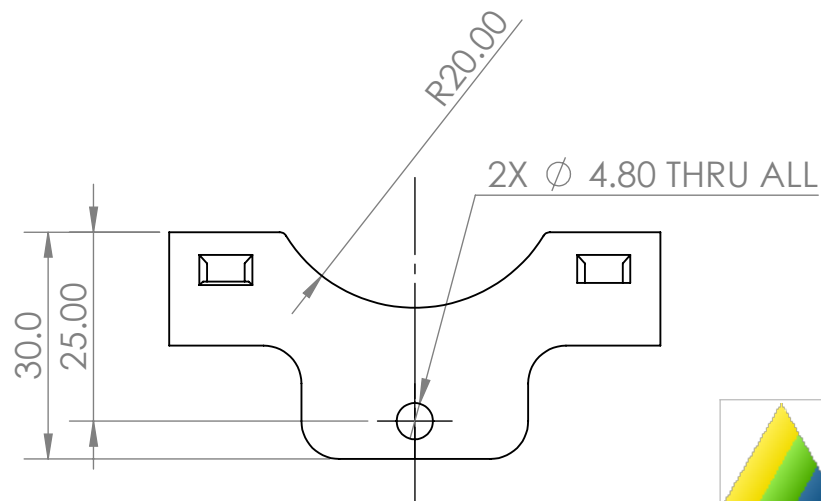
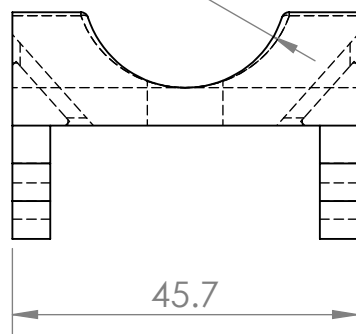
C

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R13.50



A

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UNLESS OTHERWISE SPECIFIED:			NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA	12/9/21
TOLERANCES:				
ANGULAR	±1°	CHECKED	TIA, LACH	12/9/21
ONE PLACE DECIMAL	±0.5	FREE AND UNENCUMBERED		
TWO PLACE DECIMAL	±0.25			
MATERIAL		ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
3D PRINTED ABS				
FINISH				
N/A				



THE NILE PROJECT

TITLE:

FLOW METER MOUNT

SIZE	DWG. NO.	REV
A	NILE_P2010	0
SCALE: 1:1	WEIGHT: 8.83	SHEET 1 OF 1

4

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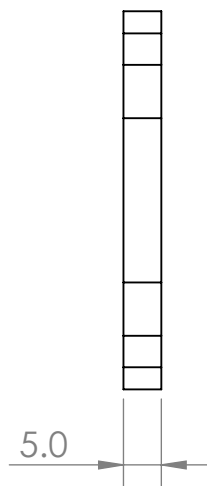
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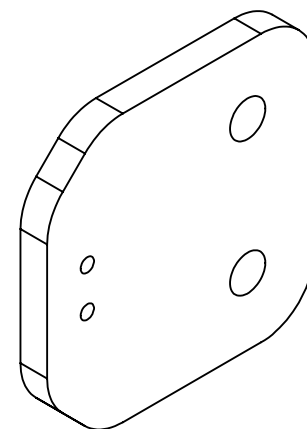
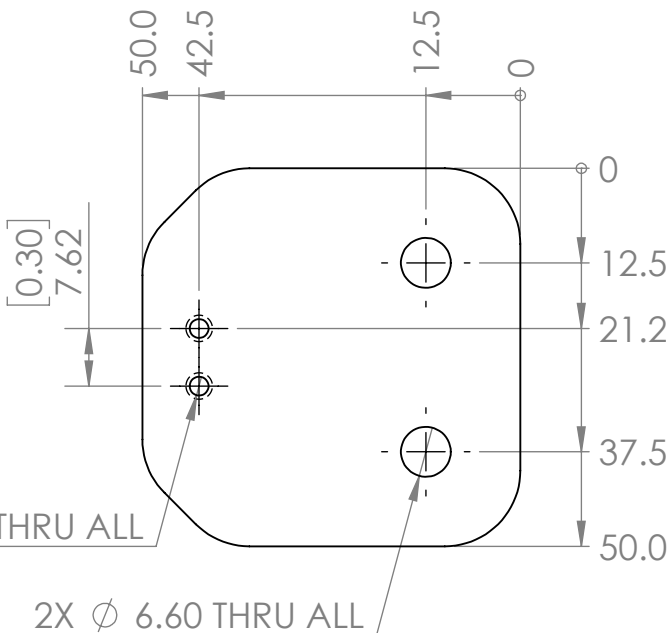
B

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2X M3X0.5 - 6H THRU ALL



THE NILE PROJECT

TITLE:

E-CHAIN MOUNTING
PLATE - VERTICAL
TRANSLATION

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ABS			
FINISH			
SPRAY PAINT COATING			

SIZE	DWG. NO.	REV
A	NILE_P2011	0
SCALE: 1:1	WEIGHT: 11.58	SHEET 1 OF 1

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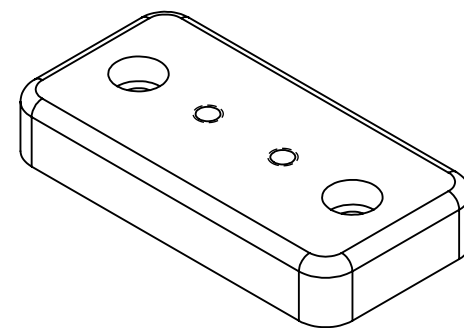
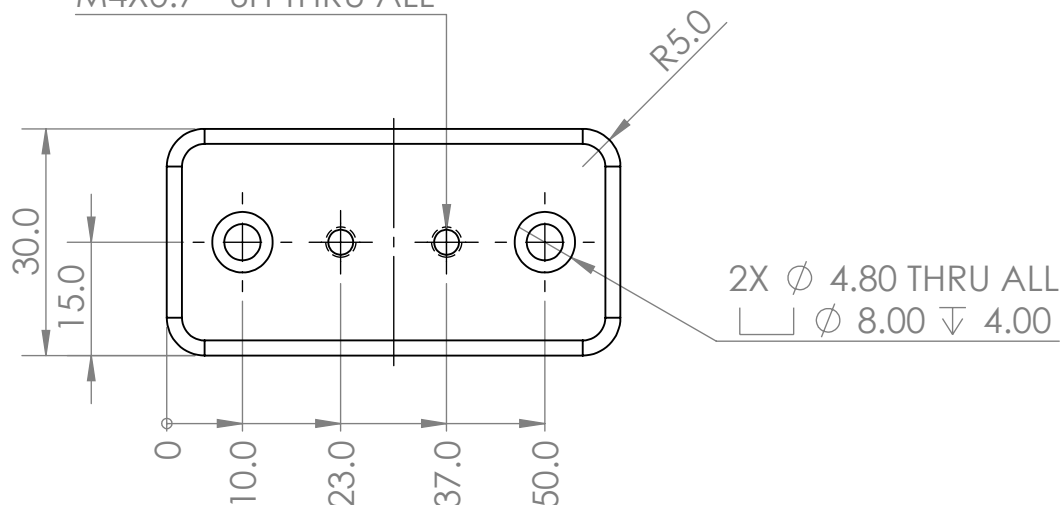
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2X \varnothing 3.30 THRU ALL
M4X0.7 - 6H THRU ALL

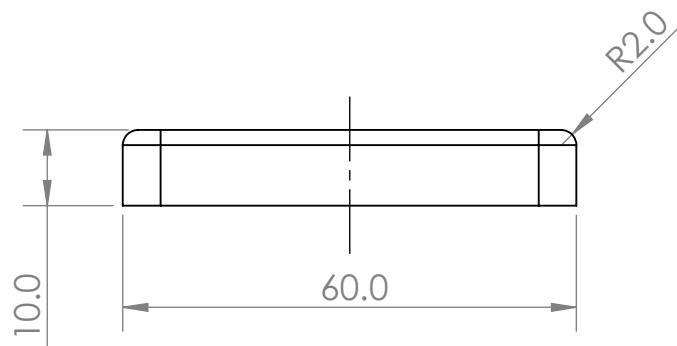


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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
FINISH			
ABS			
N/A			

 THE NILE PROJECT			
TITLE: E-CHAIN MOUNTING PLATE - HORIZONTAL TRANSLATION			
SIZE	DWG. NO.	REV	
A	NILE_P2012	0	
SCALE: 1:1	WEIGHT: 17.19	SHEET 1 OF 1	

4

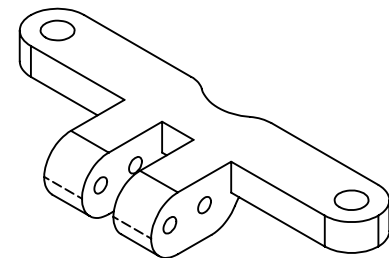
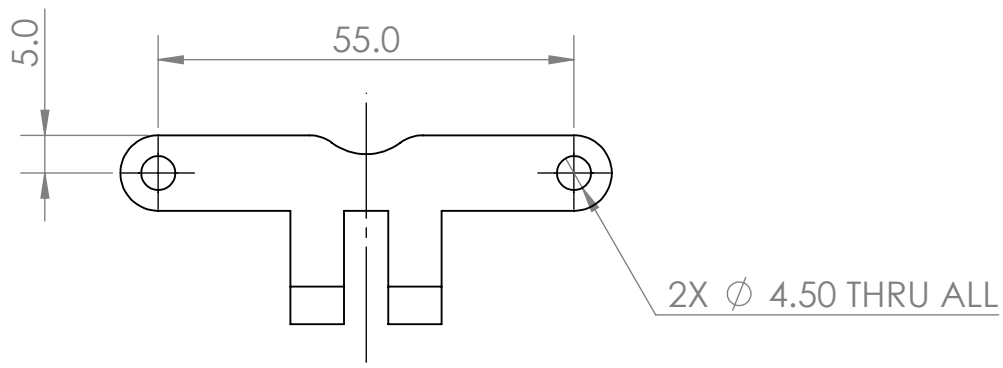
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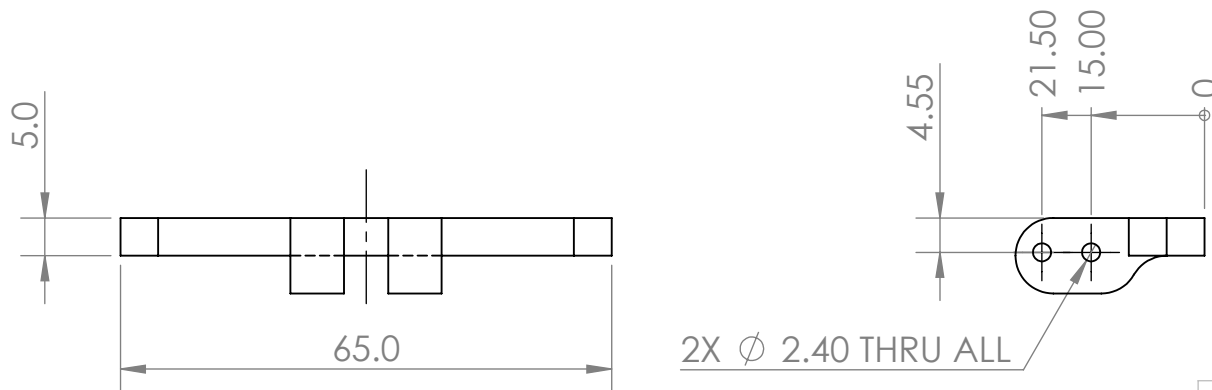
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
FINISH			
ABS			
N/A			

 THE NILE PROJECT			
TITLE: VERTICAL TRANSLATION SWITCH MOUNT			
SIZE	DWG. NO.	REV	
A	NILE_P2013	0	
SCALE: 1:1	WEIGHT: 4.87	SHEET 1 OF 1	

4

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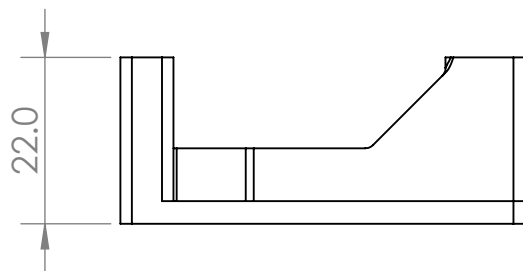
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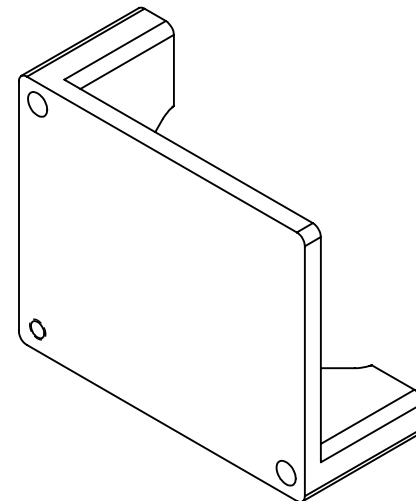
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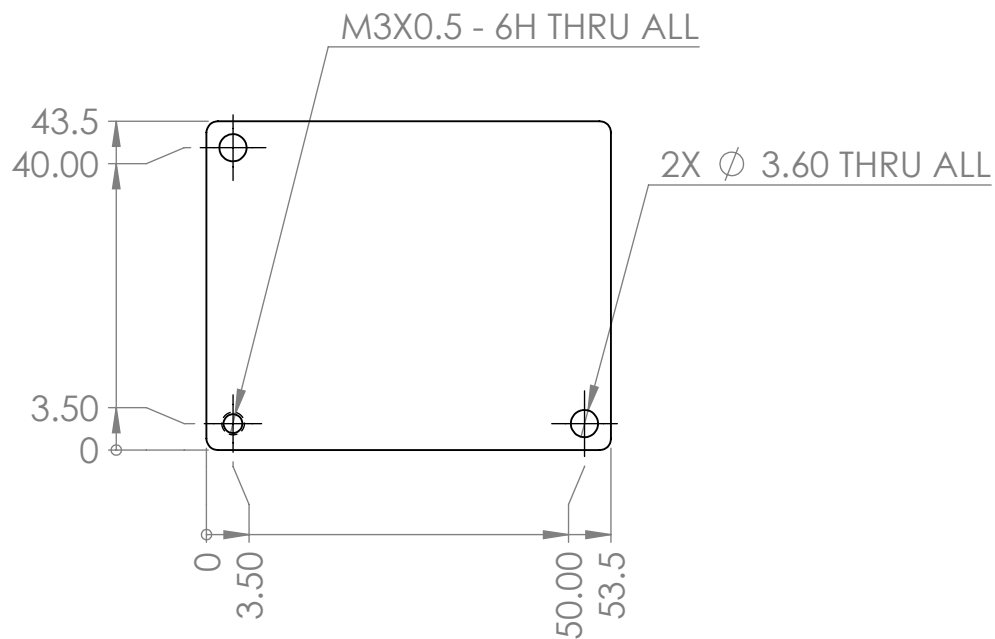
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED	
ONE PLACE DECIMAL	±0.5		
TWO PLACE DECIMAL	±0.25		
MATERIAL	ABS	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	
FINISH	N/A		



THE NILE PROJECT

TITLE:

TROLLY ELECTRICAL
MODULE MOUNT

SIZE	DWG. NO.	REV
A	NILE_P2014	0
SCALE: 1:1	WEIGHT: 14.24	SHEET 1 OF 1

4

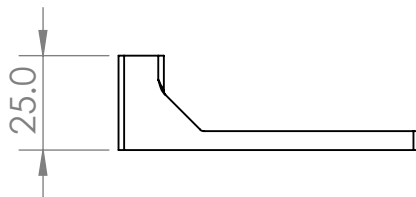
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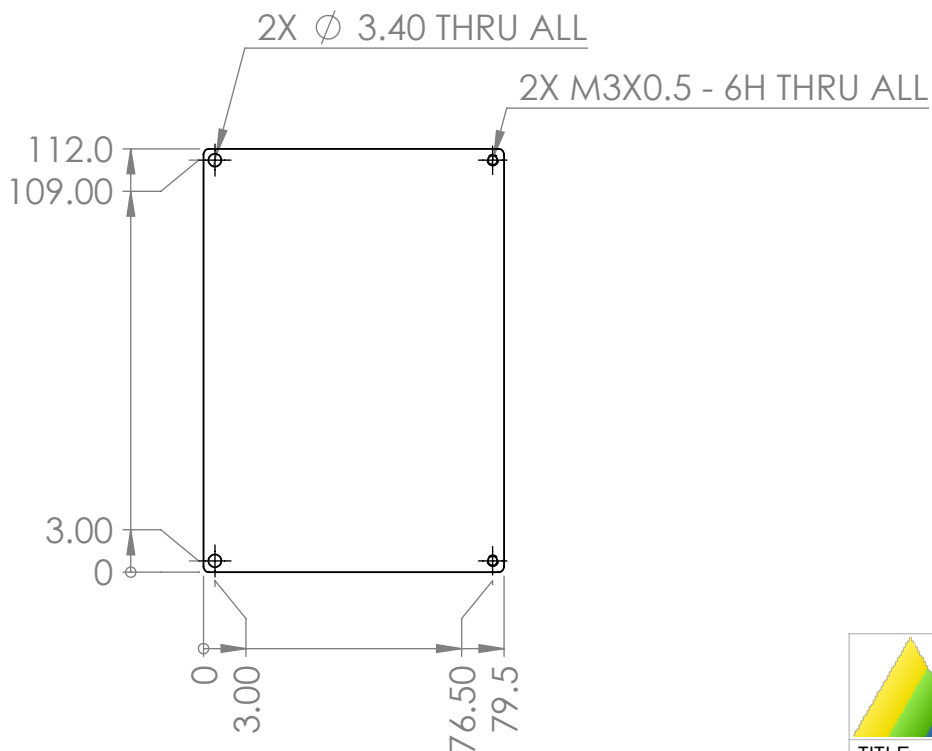
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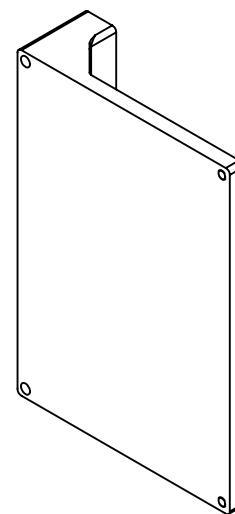
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THE NILE PROJECT

TITLE:

HVEC DRIVER MOUNT

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON- COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ABS		
FINISH	N/A		

SIZE	DWG. NO.	REV
A	NILE_P2015	0
SCALE: 1:2	WEIGHT: 78.00	SHEET 1 OF 1

4

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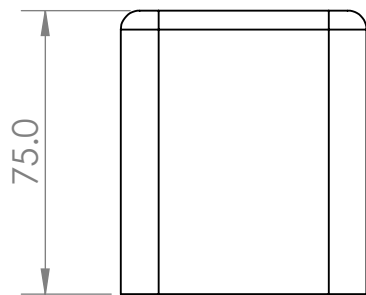
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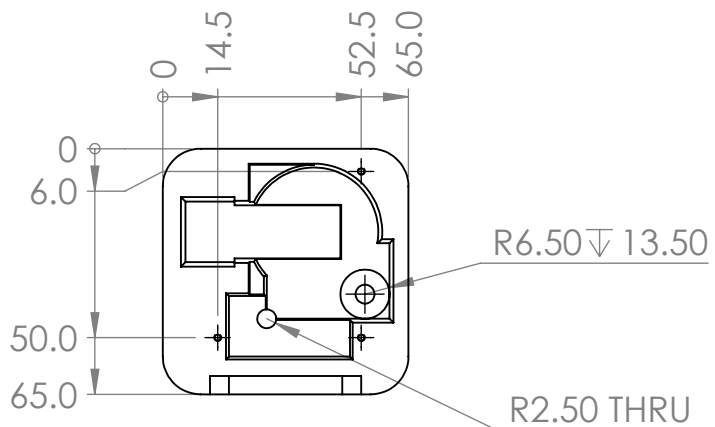
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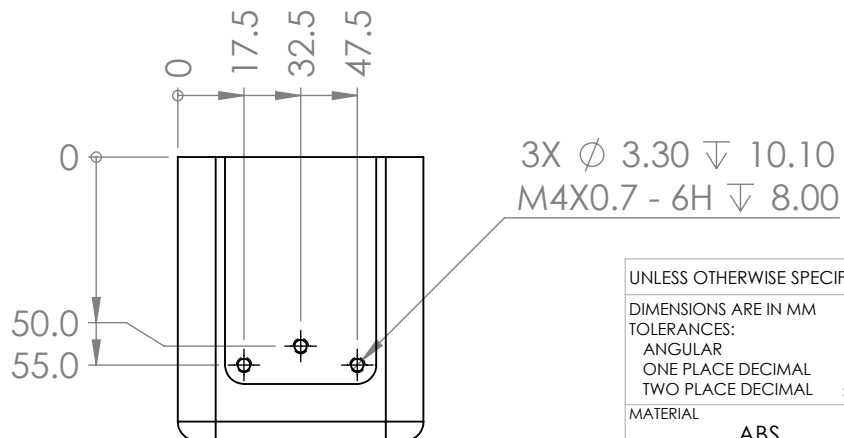
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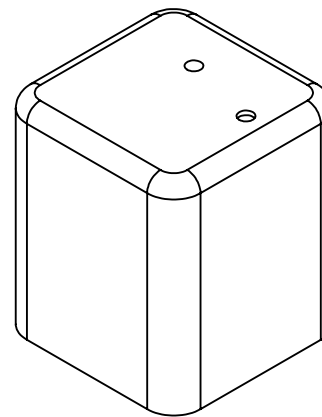
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THE NILE PROJECT

TITLE:

HVEC COIL MOUNT

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:

ANGULAR ±1°

ONE PLACE DECIMAL ±0.5

TWO PLACE DECIMAL ±0.25

MATERIAL

ABS

FINISH

SPRAY PAINT COATING

DRAWN

NAME

HOPPEA

DATE

12/9/21

CHECKED

TIA, LACH

12/9/21

FREE AND UNENCUMBERED

ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.

SIZE

A

DWG. NO.

NILE_P2016

REV

0

SCALE: 1:2

WEIGHT: 178.40

SHEET 1 OF 1

4

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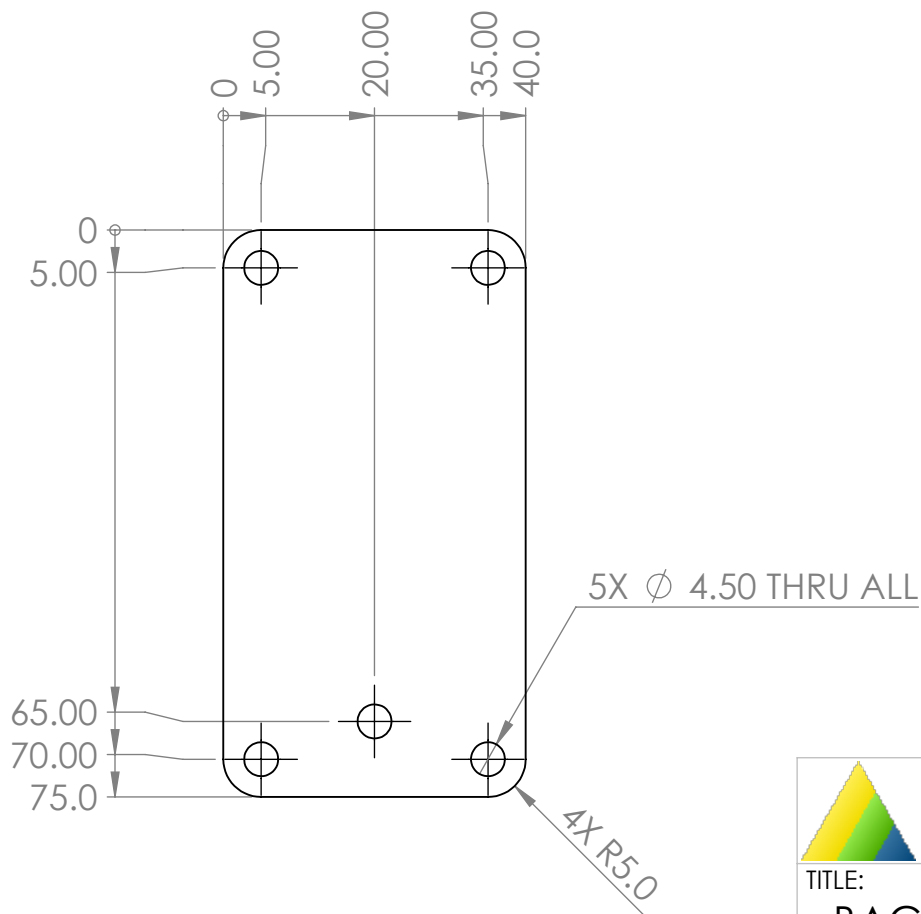
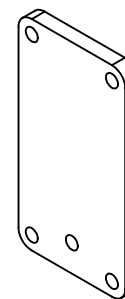
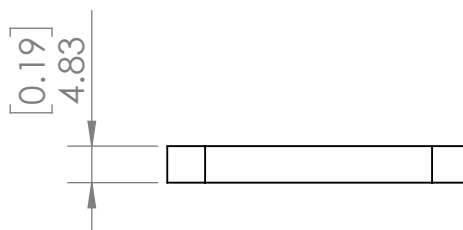
C

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**NOTE:**

1. TO BE FABRICATED FROM 0.19 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA 12/9/21
TOLERANCES:		CHECKED	TIA, LACH 12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED	
ONE PLACE DECIMAL	±0.5		
TWO PLACE DECIMAL	±0.25		
MATERIAL	6061-T6 (SS)	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	
FINISH	N/A		



THE NILE PROJECT

TITLE:

BACK PLATE FOR HVEC
COIL MOUNT

SIZE	DWG. NO.	REV
A	NILE_P2017	0
SCALE: 1:1	WEIGHT: 37.77	SHEET 1 OF 1

4

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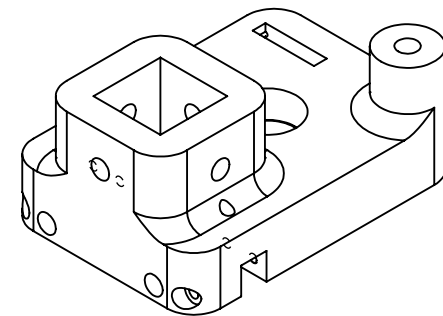
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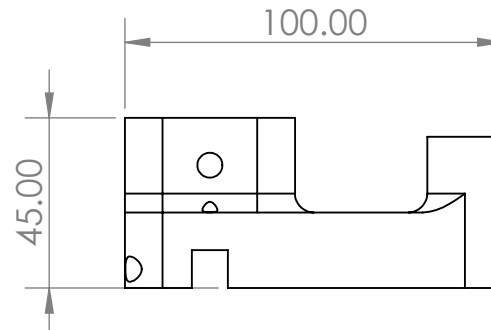
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1/2 NPT THRU ALL

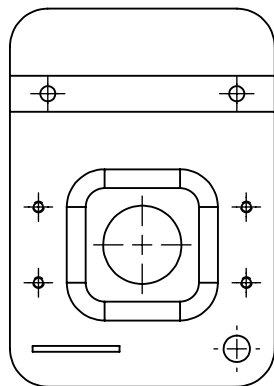
 ϕ 7.00 THRU
 M8X1.0 - 6H ∇ 16.00
4X ϕ 6.60 THRU

70.00

100.00



45.00

4X ϕ 3.40 THRU
 \perp ϕ 6.70 ∇ 5.00


THE NILE PROJECT

TITLE:

 END EFFECTOR
 MOUNTING PLATFORM

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:

ANGULAR $\pm 1^\circ$ ONE PLACE DECIMAL ± 0.5 TWO PLACE DECIMAL ± 0.25

MATERIAL

3D PRINTED ABS

FINISH

SPRAY PAINT COATING

DRAWN

NAME

HOPPEA

DATE

12/9/21

CHECKED

TIA, LACH

12/9/21

FREE AND UNENCUMBERED

 ANYONE IS FREE TO COPY, MODIFY,
 PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY
 PURPOSE, COMMERCIAL OR NON-
 COMMERCIAL, AND BY ANY MEANS.

SIZE

A

DWG. NO.

NILE_P3000

REV

0

SCALE: 1:2

WEIGHT: 45.23

SHEET 1 OF 1

4

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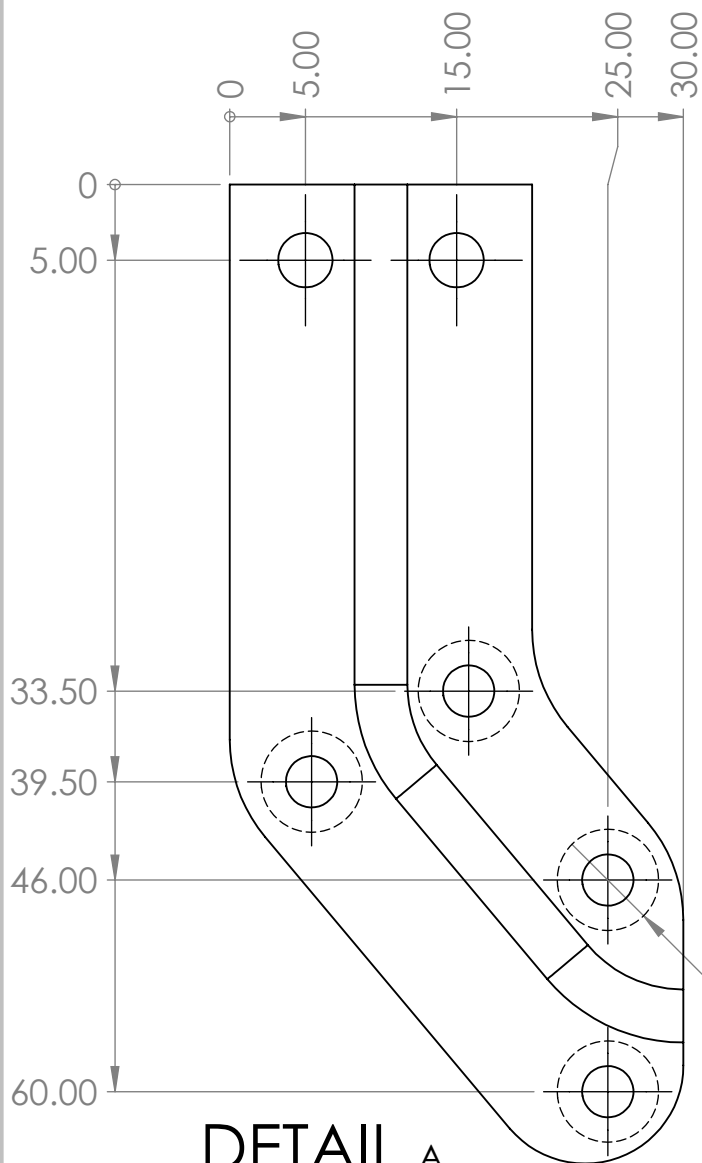
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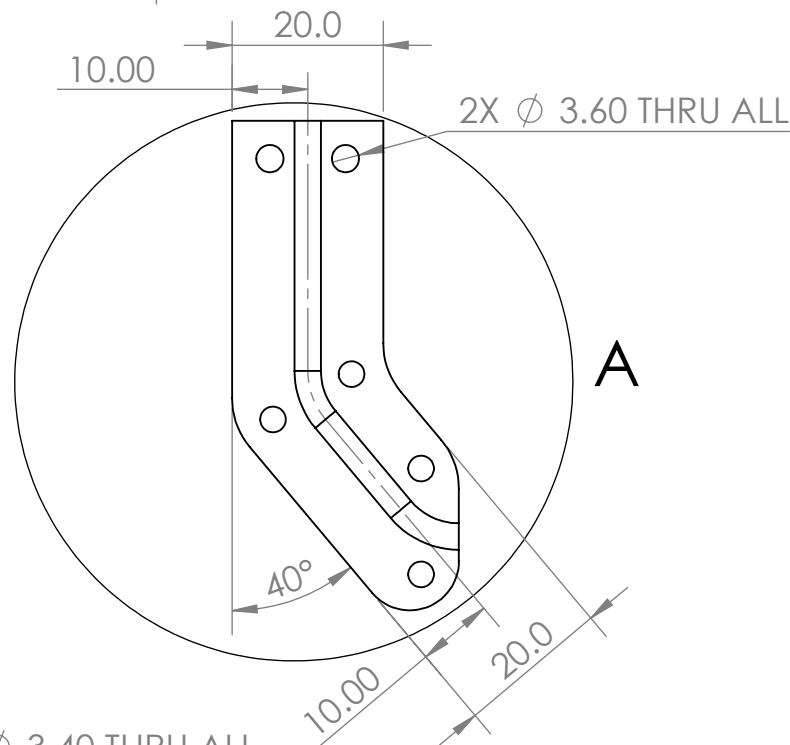
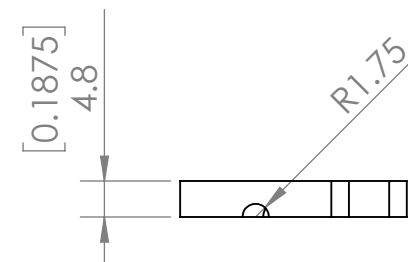
B

A


A



4X \varnothing 3.40 THRU ALL
 \square \varnothing 6.70 ∇ 1.65



UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA 12/9/21
TOLERANCES:		CHECKED	TIA, LACH 12/9/21
ANGULAR	$\pm 1^\circ$	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	
ONE PLACE DECIMAL	± 0.5		
TWO PLACE DECIMAL	± 0.25		
MATERIAL			
GAROLITE XX			
FINISH			
N/A			

 THE NILE PROJECT			
TITLE: HVEC SPARK WIRE MOUNTING ARM			
SIZE	DWG. NO.	REV	
A	NILE_P3001	0	
SCALE: 1:1	WEIGHT: 5.93	SHEET 1 OF 2	

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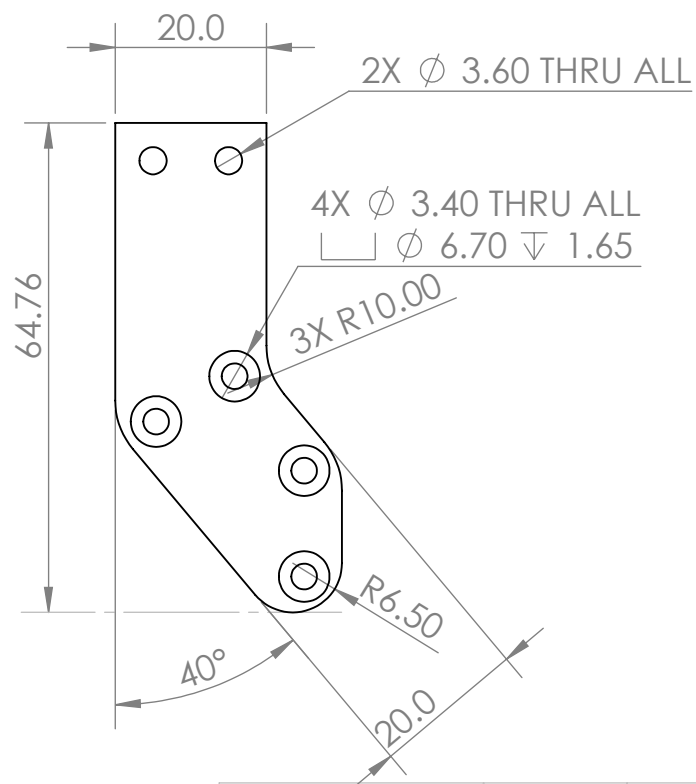
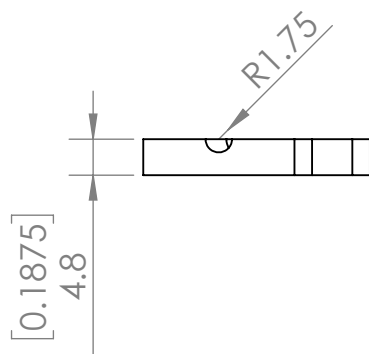
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR ±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ±0.5			
TWO PLACE DECIMAL ±0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
FINISH			
GAROLITE XX			
N/A			



THE NILE PROJECT

TITLE:

HVEC SPARK WIRE
MOUNTING ARM -
MIRROR

SIZE	DWG. NO.	REV
A	NILE_P3001	0
SCALE: 1:1	WEIGHT: 5.93	SHEET 2 OF 2

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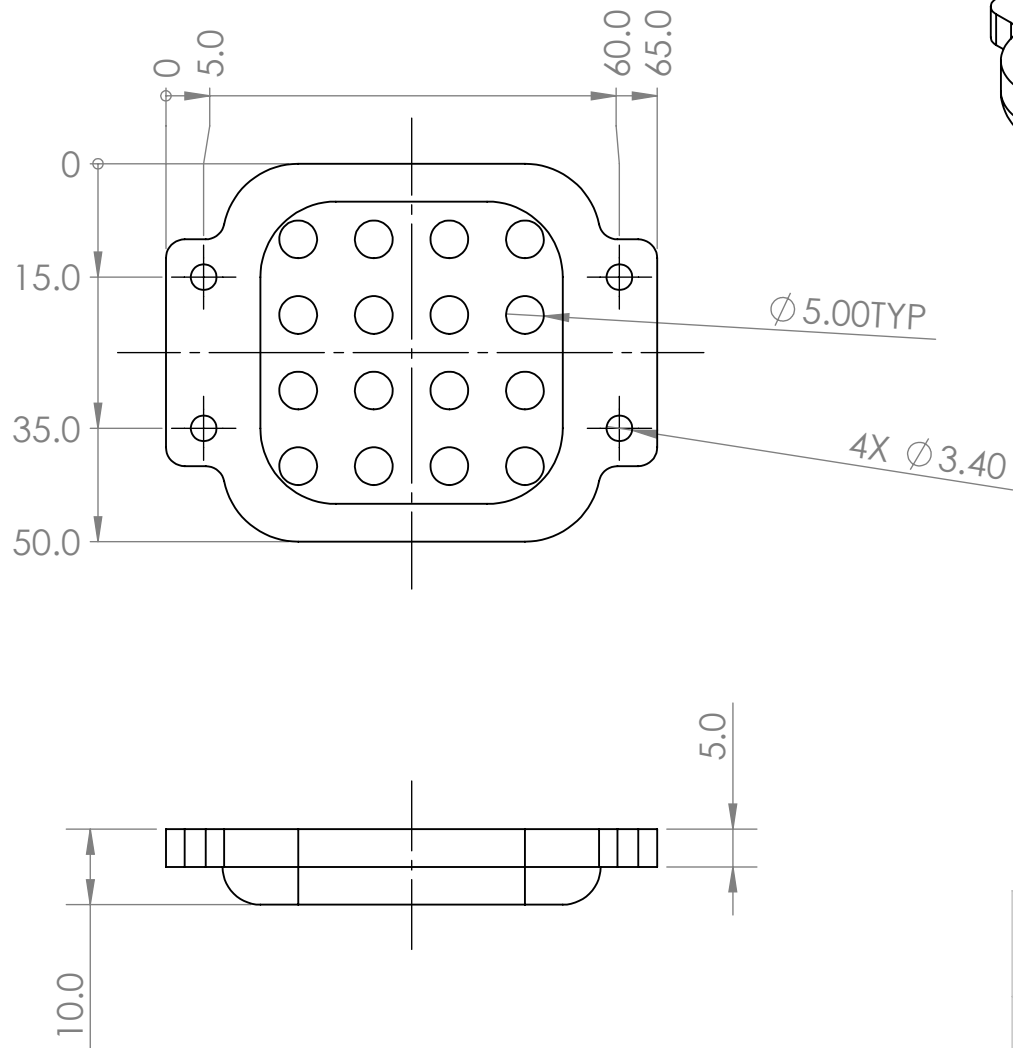
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THE NILE PROJECT

TITLE:

END EFFECTOR NOZZLE

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	HOPPEA	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
FINISH			
3D PRINTED ABS			
SPRAY PAINTED			

SIZE	DWG. NO.	REV
A	NILE_P3002	0
SCALE: 1:1	WEIGHT: 4.93	SHEET 1 OF 1

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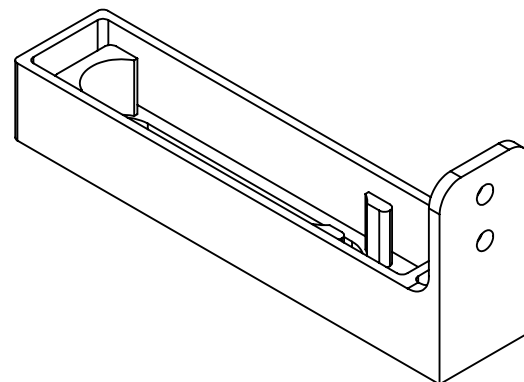
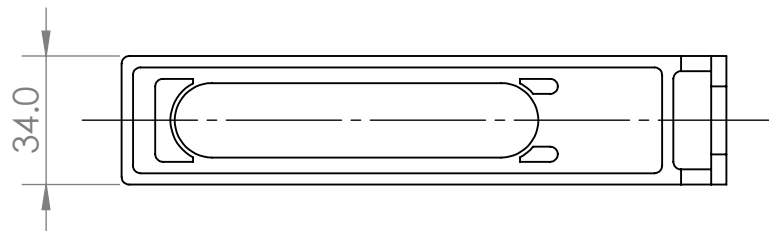
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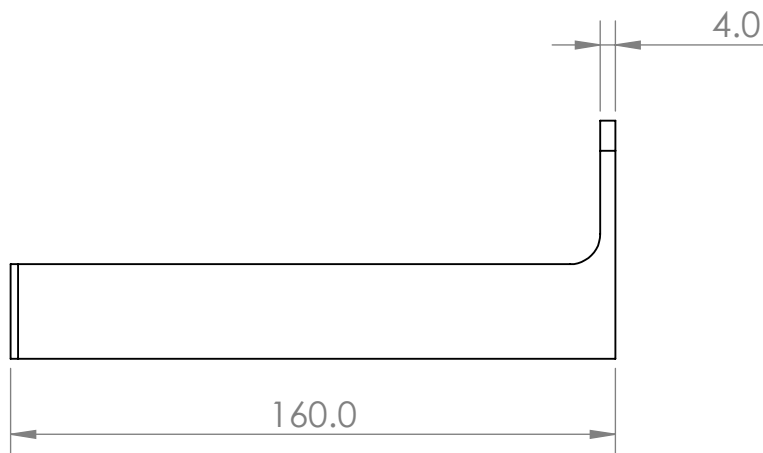
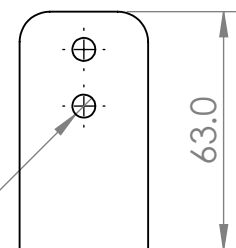


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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	MCKENZT	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
ABS			
FINISH			
SPRAY PAINT COATING			

 THE NILE PROJECT			
TITLE: CAMERA ENCLOSURE - BASE			
SIZE	DWG. NO.	REV	
A	NILE_P3003	0	
SCALE: 1:2	WEIGHT: 48.68	SHEET 1 OF 1	

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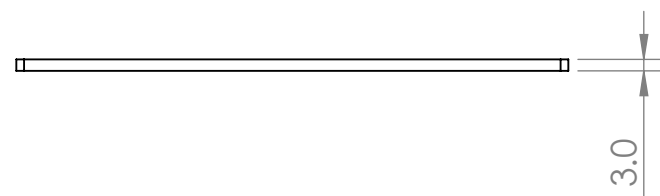
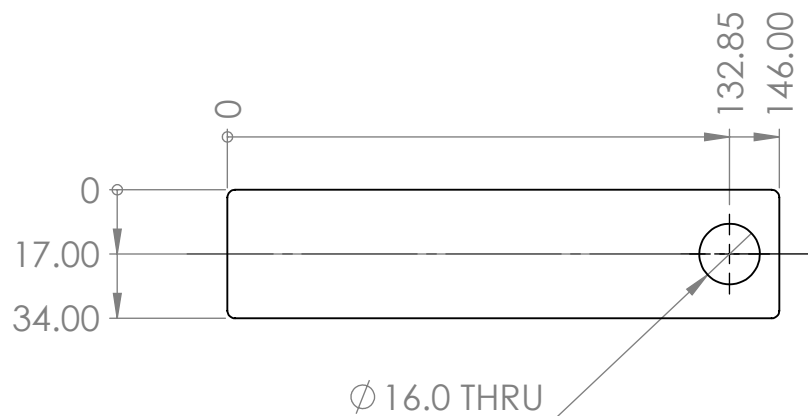
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THE NILE PROJECT

TITLE:

CAMERA ENCLOSURE -
LID

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	MCKENZT	12/9/21
TOLERANCES:	CHECKED	TIA, LACH	12/9/21
ANGULAR $\pm 1^\circ$	FREE AND UNENCUMBERED ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON- COMMERCIAL, AND BY ANY MEANS.		
ONE PLACE DECIMAL ± 0.5			
TWO PLACE DECIMAL ± 0.25			
MATERIAL			
ABS			
FINISH			
SPRAY PAINT COATING			

SIZE	DWG. NO.	REV
A	NILE_P3004	0
SCALE: 1:2	WEIGHT: 14.56	SHEET 1 OF 1

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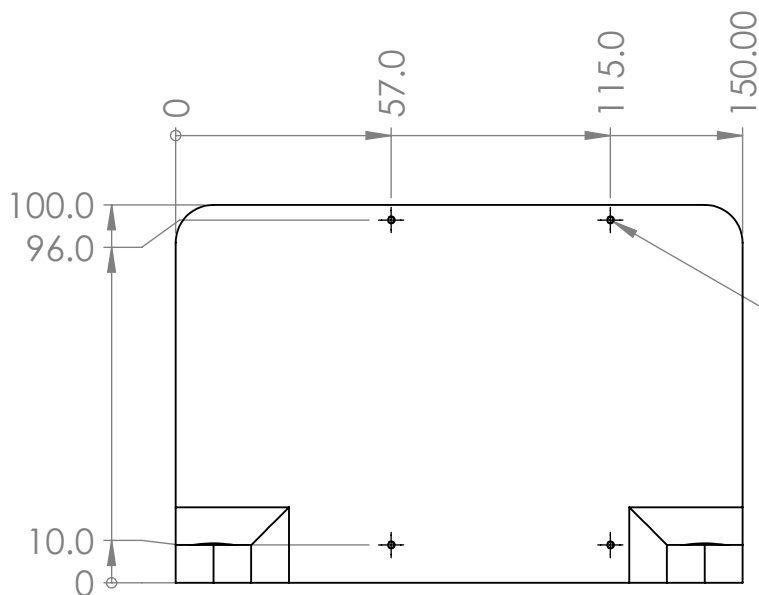
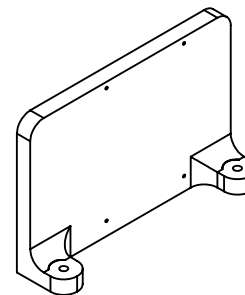
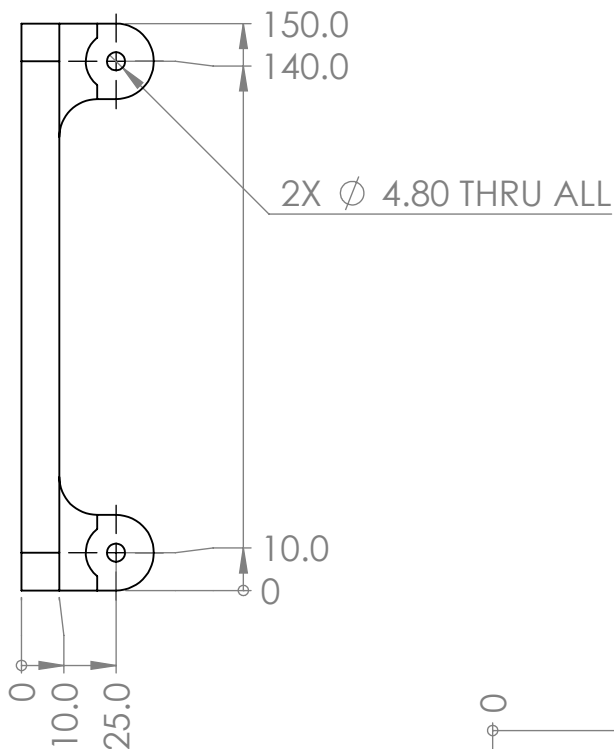
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UNLESS OTHERWISE SPECIFIED:			NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA	12/9/21
TOLERANCES:		CHECKED	TIA, LACH	12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL	±0.5			
TWO PLACE DECIMAL	±0.25			
MATERIAL		ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
3D PRINTED ABS				
FINISH				
N/A				



THE NILE PROJECT

TITLE:

NVIDIA JETSON
MOUNTING BRACKET

SIZE	DWG. NO.	REV
A	NILE_P5000	0
SCALE: 1:2	WEIGHT: 48.88	SHEET 1 OF 1

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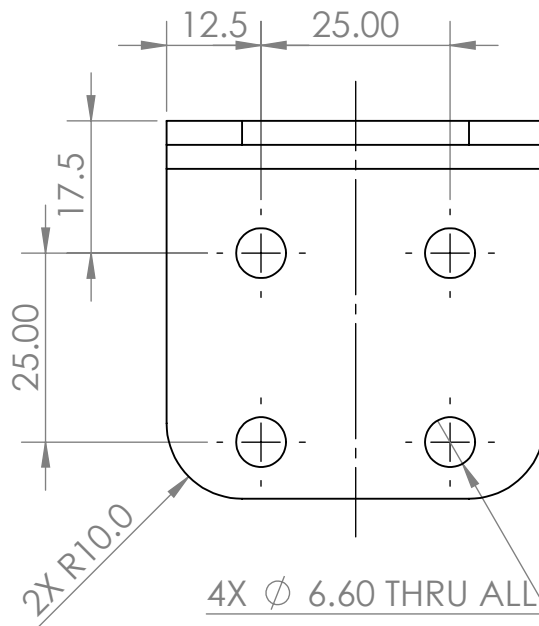
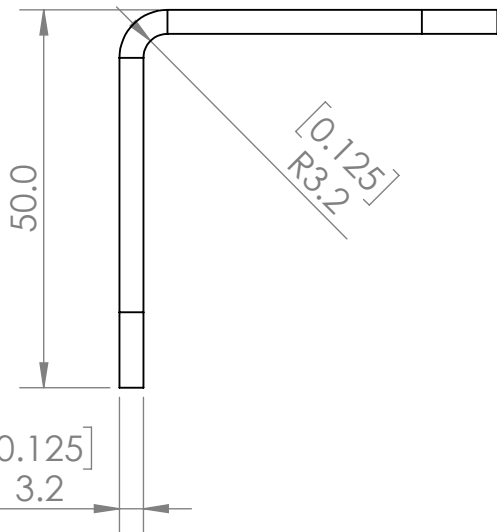
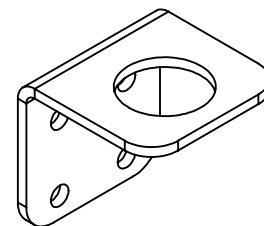
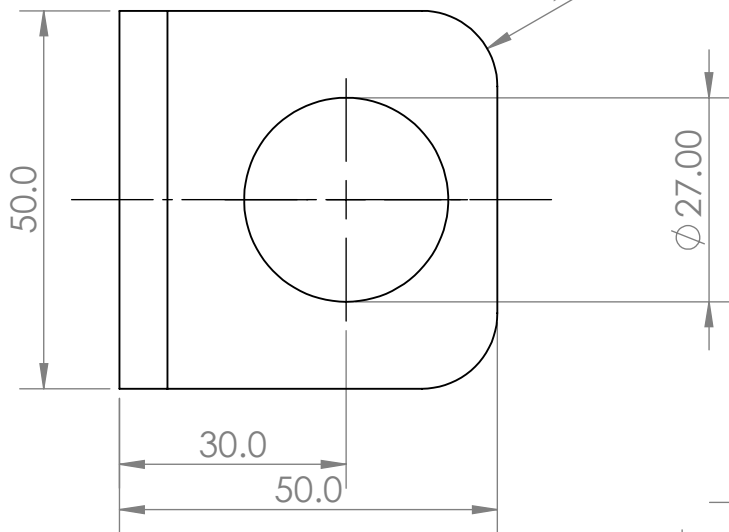
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**NOTE:**

1. TO BE FABRICATED FROM 1/8 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:			NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA	12/9/21
TOLERANCES:		CHECKED	TIA, LACH	12/9/21
ANGULAR	±1°	FREE AND UNENCUMBERED		
ONE PLACE DECIMAL	±0.5			
TWO PLACE DECIMAL	±0.25			
MATERIAL		ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.		
6061-T6 (SS)				
FINISH				
N/A				



THE NILE PROJECT

TITLE:

FLEXIBLE CONDUIT
MOUNTING BRACKET

SIZE	DWG. NO.	REV
A	NILE_P5001	0
SCALE: 1:1	WEIGHT: 33.81	SHEET 1 OF 2

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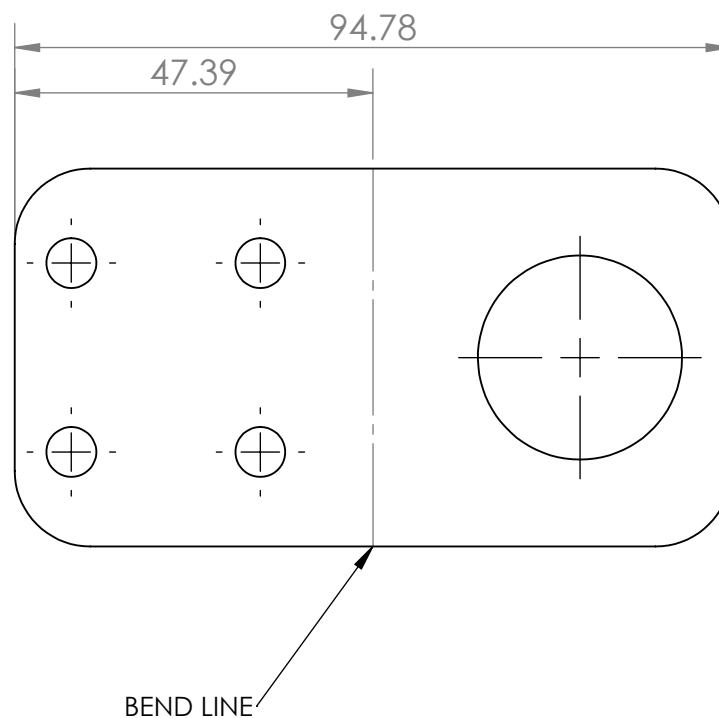
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**NOTE:**

1. TO BE FABRICATED FROM 1/8 INCH FLAT STOCK
2. DEBURR AND BREAK ALL SHARP EDGES

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM		DRAWN	HOPPEA
TOLERANCES:		CHECKED	
ANGULAR	±1°		
ONE PLACE DECIMAL	±0.5		
TWO PLACE DECIMAL	±0.25		
MATERIAL	6061-T6 (SS)	FREE AND UNENCUMBERED	
FINISH	N/A	ANYONE IS FREE TO COPY, MODIFY, PUBLISH, USE, SELL, OR DISTRIBUTE FOR ANY PURPOSE, COMMERCIAL OR NON-COMMERCIAL, AND BY ANY MEANS.	



THE NILE PROJECT

TITLE:

FLEXIBLE CONDUIT
MOUNTING BRACKET

SIZE	DWG. NO.	REV
A	NILE_P5001	0
SCALE: 1:1	WEIGHT: 33.81	SHEET 2 OF 2