
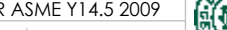
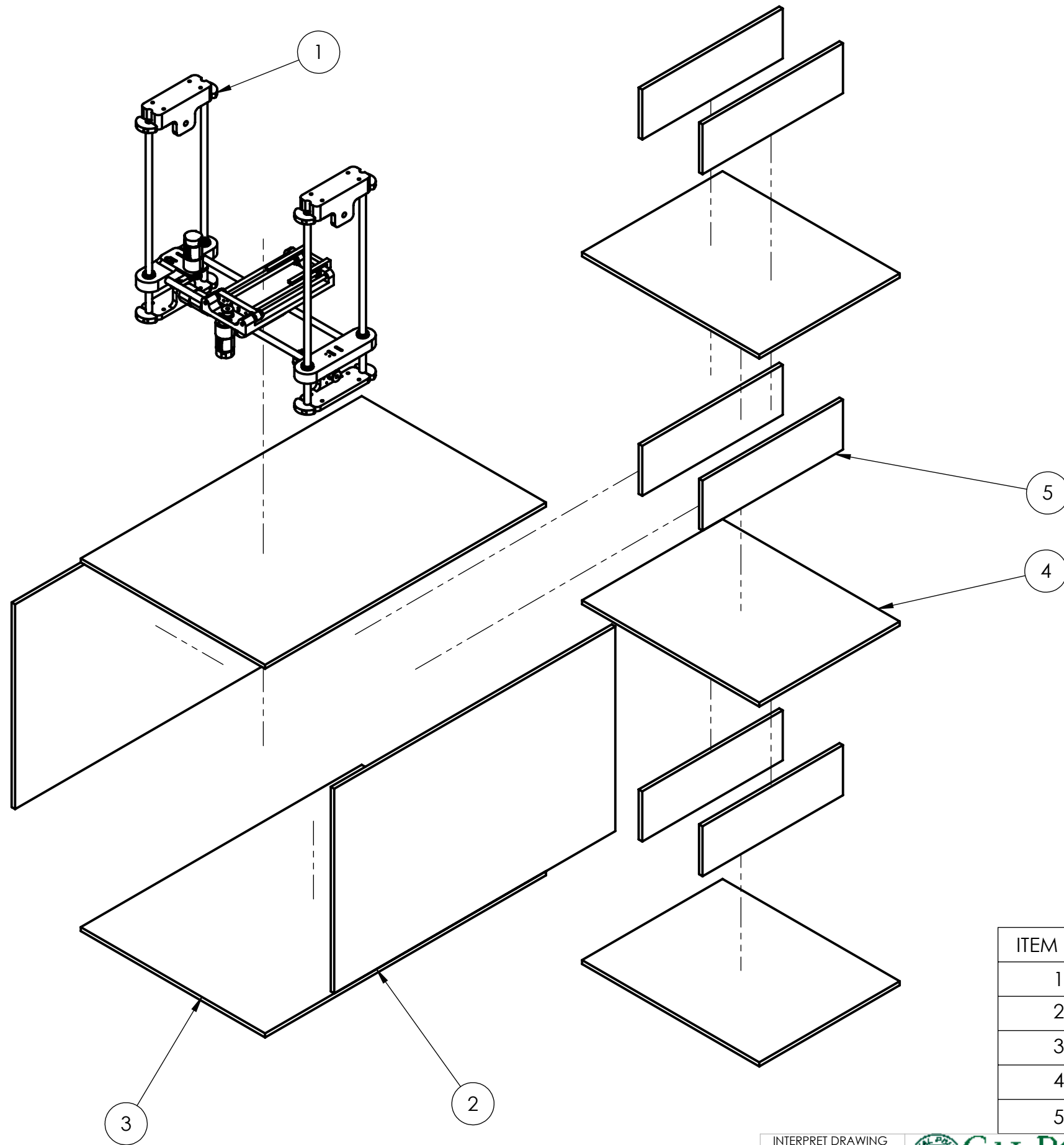
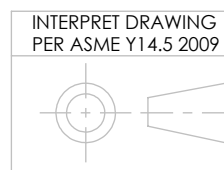


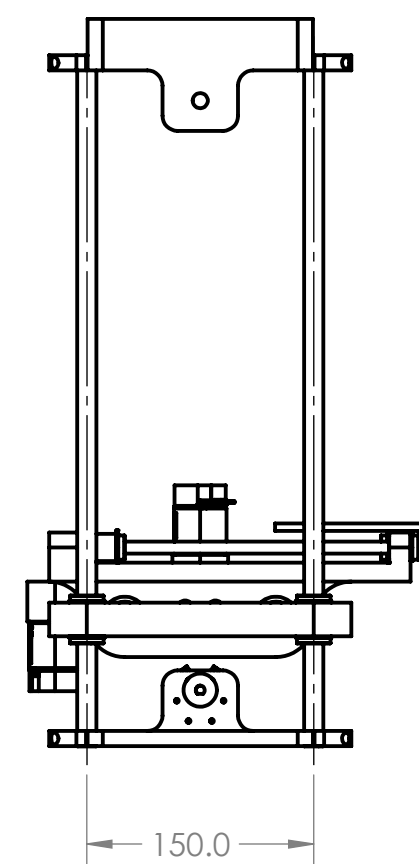
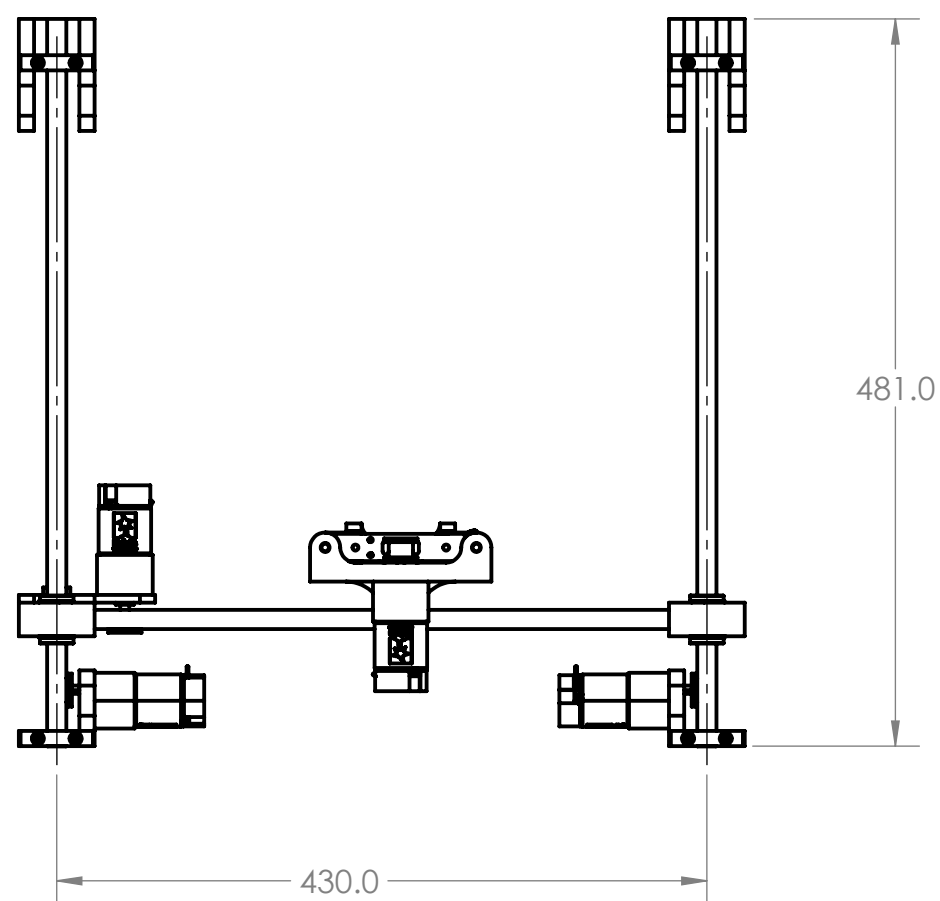
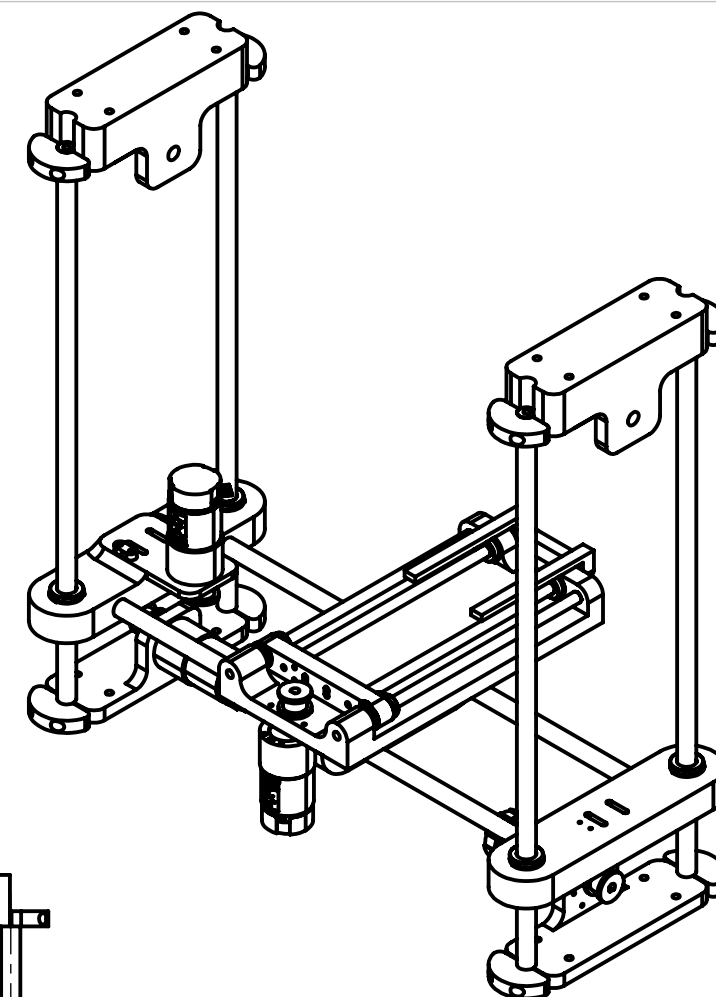
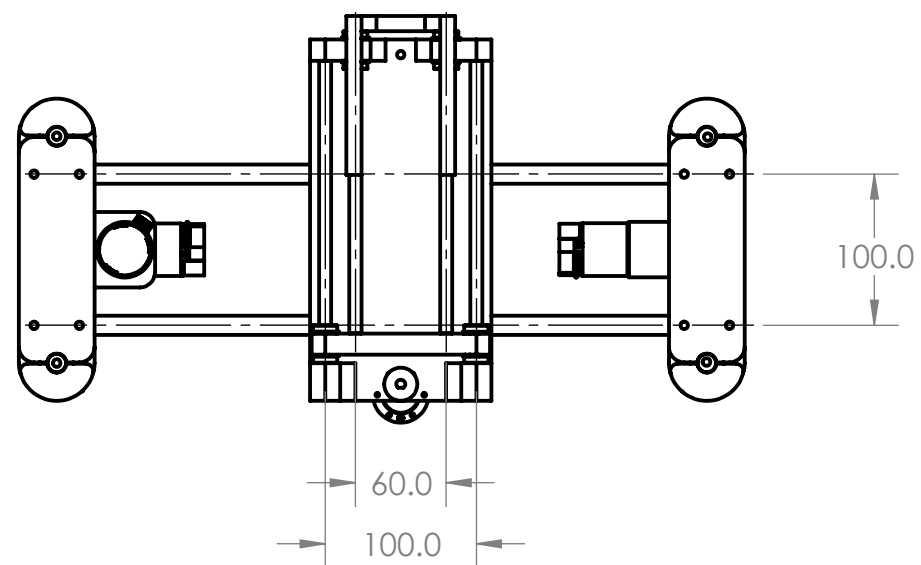
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM X.X=±0.5 ANGLES=±1° INSIDE TOOL RADIUS 0.5 MAX BREAK SHARP EDGES 0.1 MAX 63/FAO	INTERPRET DRAWING PER ASME Y14.5 2009	 CAL POLY SAN LUIS OBISPO	MATERIAL:	PART #:	TITLE:					
			100000			Collection Rover				
			DATE:	DRAWN BY:	SHEET 1 OF 1			SCALE: 1:6	REV	SIZE
			2/4/2026	Antony Chen					B	B



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	110000	VP Elevator	1
2	120000	Body Wall	2
3	130000	Body Plate	2
4	140000	shelf plate	3
5	150000	shelf wall	6

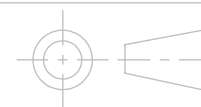


MATERIAL:	PART #:	TITLE: Collection Rover(Exploded)	
DATE: 2/4/2026		DRAWN BY: Antony Chen	SHEET 1 OF 1
		SCALE: 1:9	REV B
			SIZE B



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
63/FAO

INTERPRET DRAWING
PER ASME Y14.5 2009



DATE:
2/4/2026

MATERIAL:

DRAWN BY:

Antony Chen

PART #:

110000

TITLE:

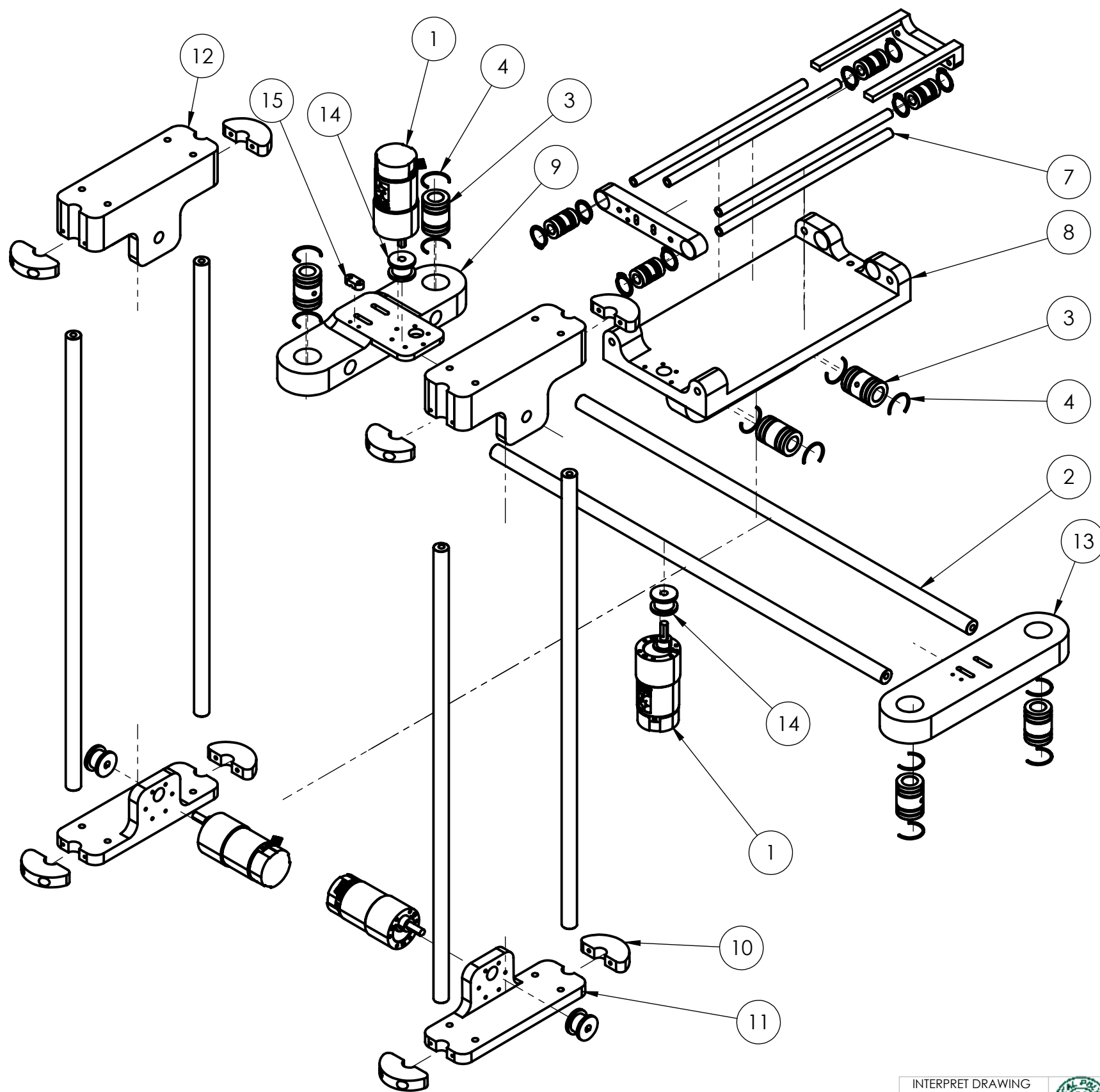
VP Elevator

SHEET 1 OF 1

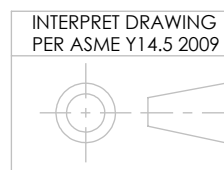
SCALE: 1:5

REV
B

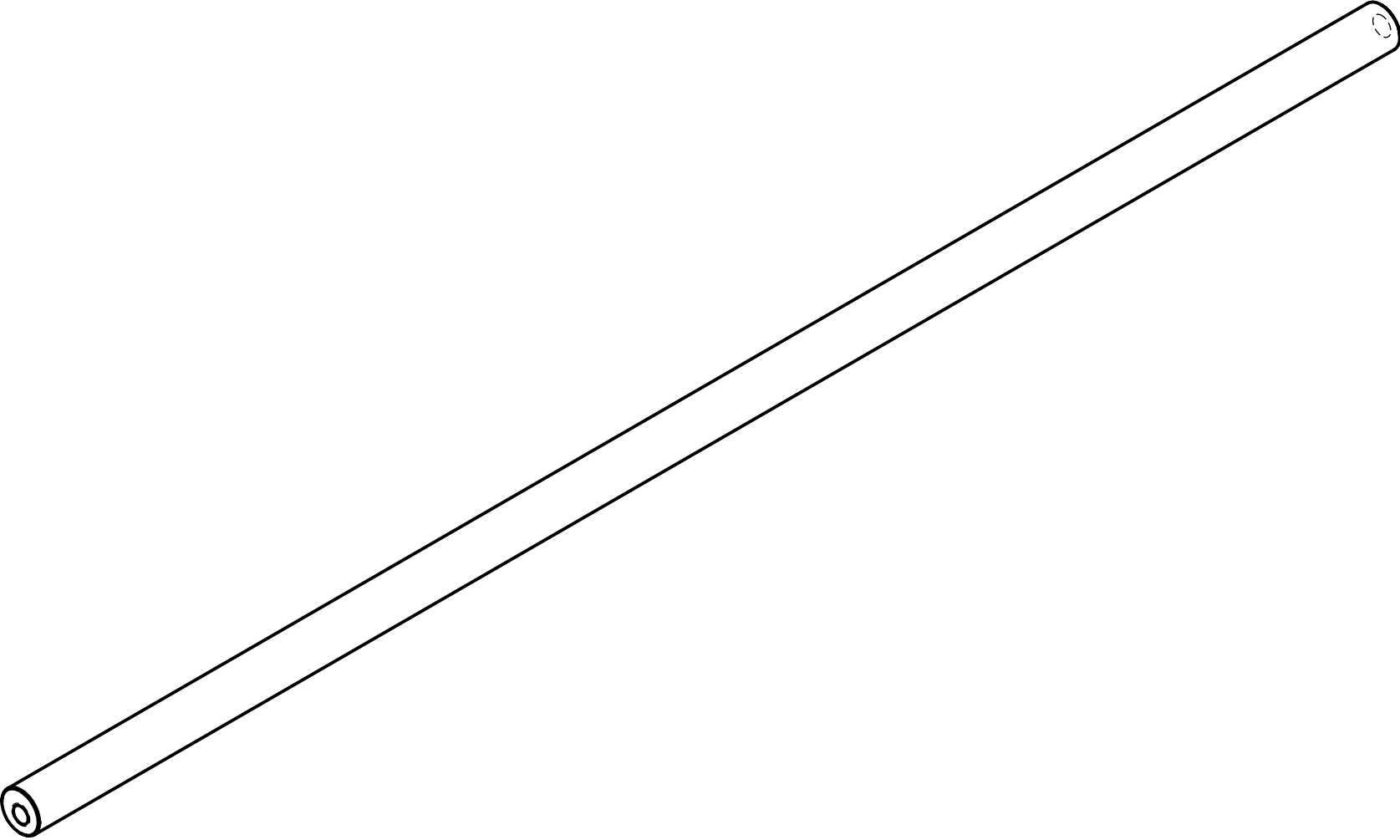
SIZE
B



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	111000	37d-gearmotor-100-131-150-encoder	4
2	112000	6061K43	6
3	113000	6673K13	6
4	114000	9968K24	12
5	115000	6673K37	4
6	116000	9968K32	8
7	117000	6112K44	4
8	118000	Bearing Arm Mount	1
9	119000	Bearing Mount	1
10	11A000	Clamp	8
11	11B000	Rails Bottom Mount	2
12	11C000	Rails Top Mount	2
14	11D000	Spool	4
15	11E000	String Clamp	2
16	11F000	Stage 2nd Telescopic	1
17	11G000	Stage Telescopic Top	1



MATERIAL:	PART #:	TITLE: VP Elevator (Exploded)
DRAWN BY: Antony Chen	SHEET 1 OF 1	SCALE: 1:4
REV B	SIZE B	



2X ϕ 5.0 ∇ 25.0
M6X1.0 - 6H ∇ 12.0

ϕ 12.7 \pm 0.1

A



CAL POLY
SAN LUIS OBISPO

MATERIAL:
1566 Carbon Steel

PART #:
112000

TITLE:
6061K43_Linear Motion Shaft

DATE:
2/4/2026

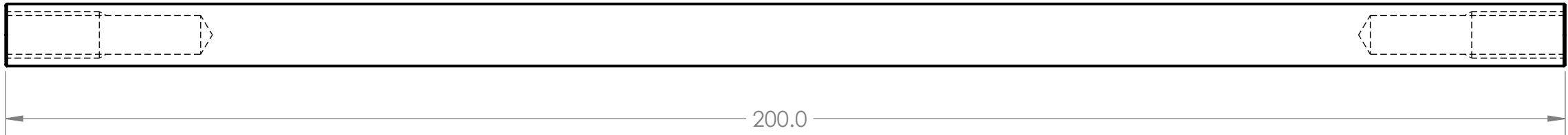
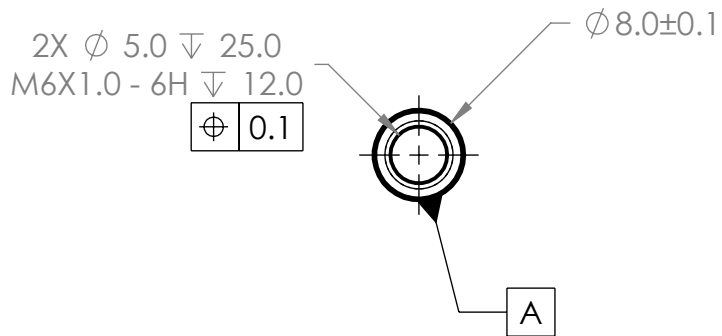
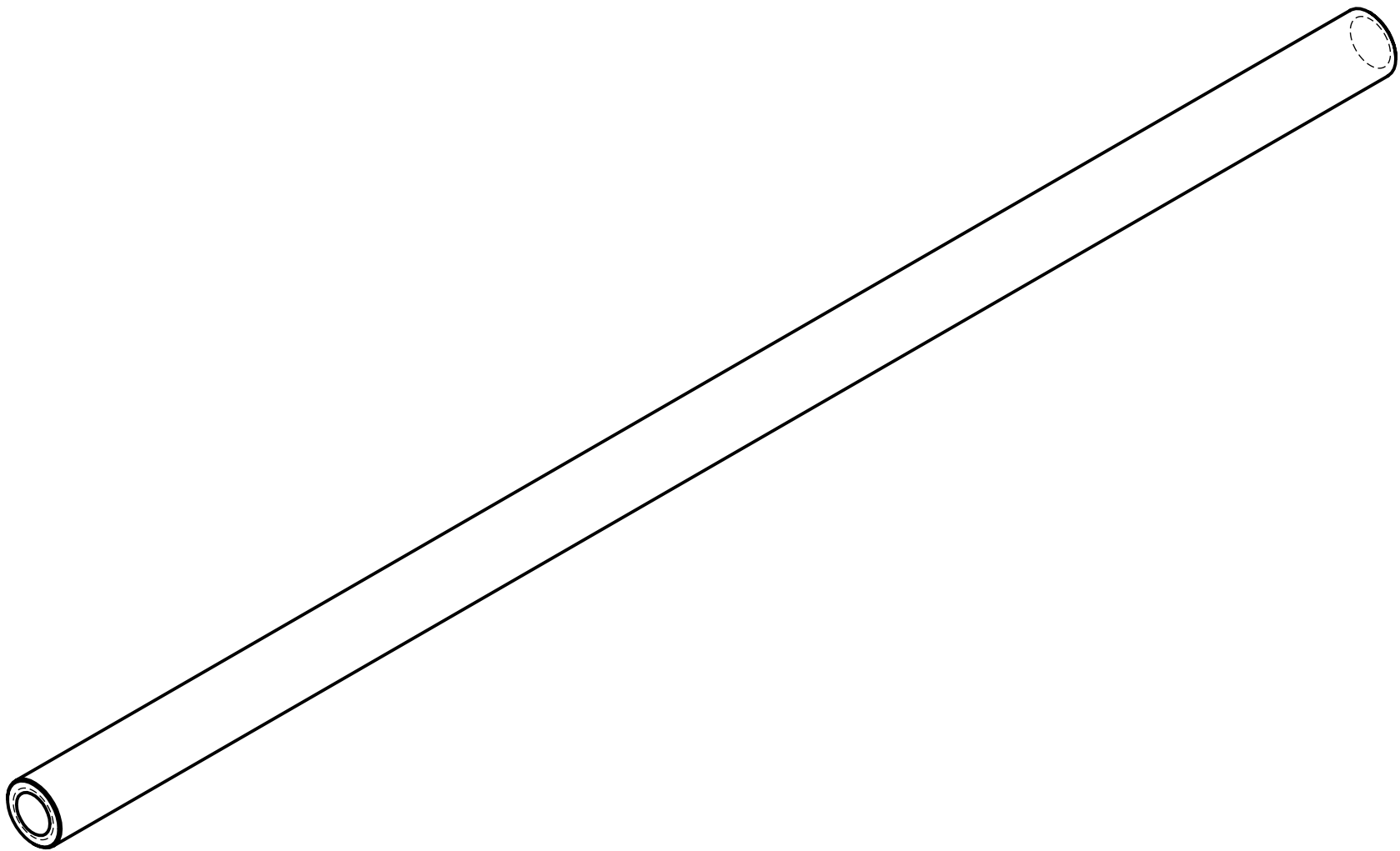
DRAWN BY:
Antony Chen

SHEET 1 OF 1

SCALE: 2:3

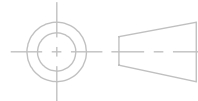
REV
B

SIZE
B



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
63/
√ FAO

INTERPRET DRAWING
PER ASME Y14.5 2009



CAL POLY
SAN LUIS OBISPO

DATE:

2/4/2026

MATERIAL:

1566 Carbon Steel

PART #:

117000

TITLE:

6112K44_Linear Motion Shaft

DRAWN BY:

Antony Chen

SHEET 1 OF 1

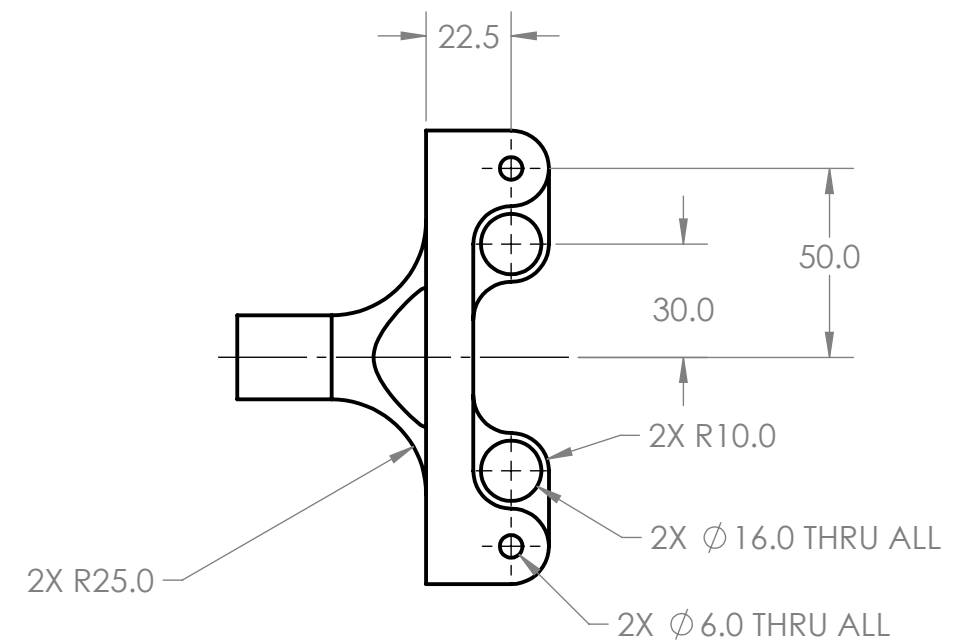
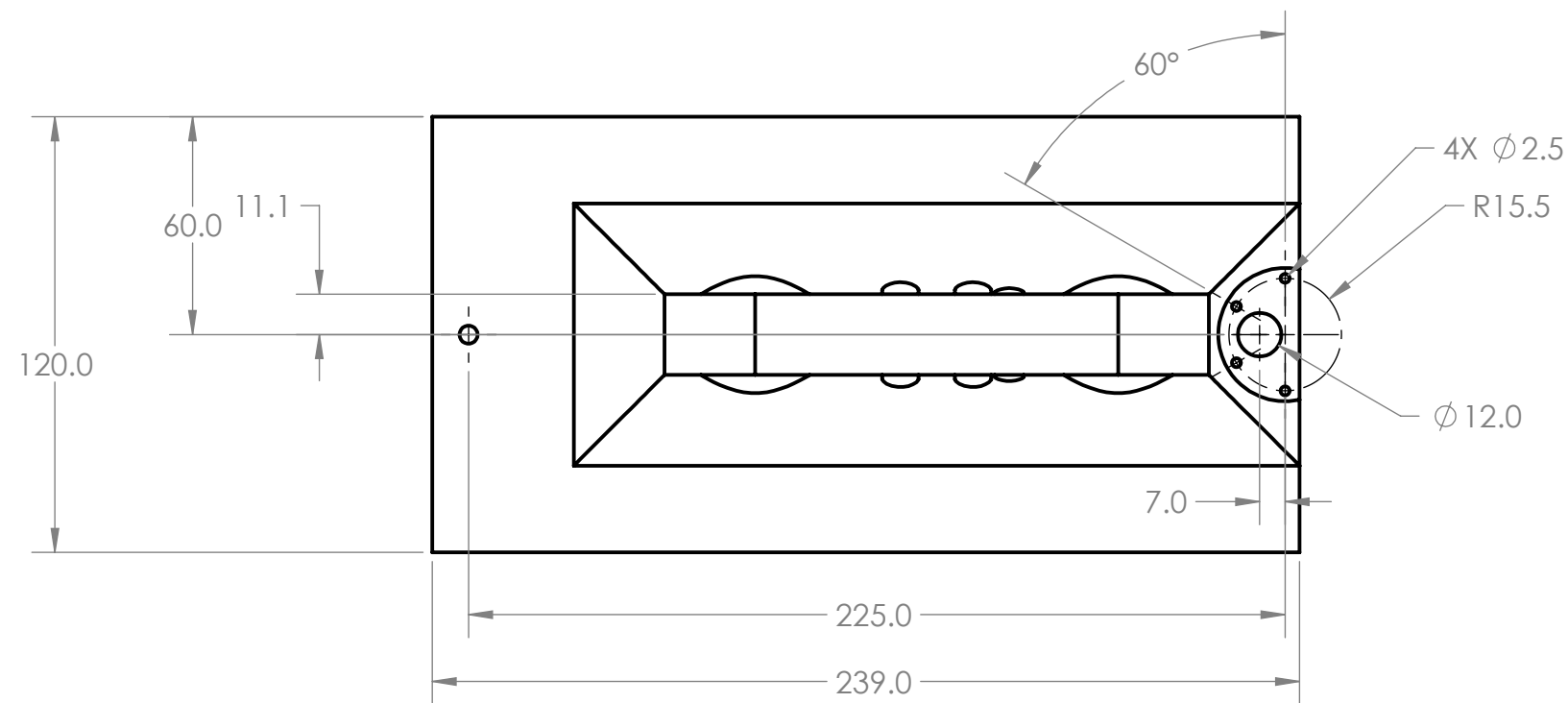
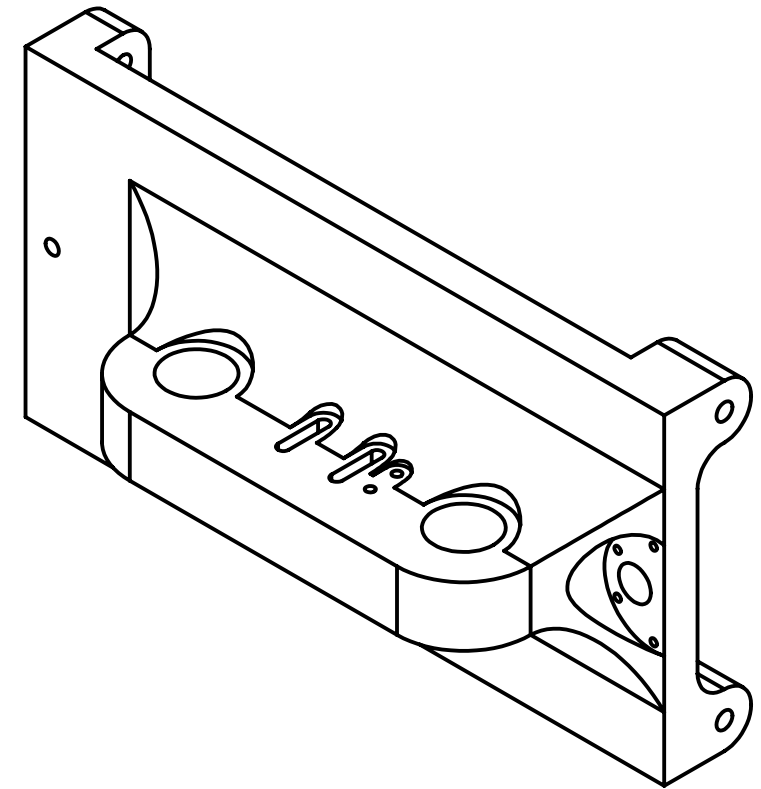
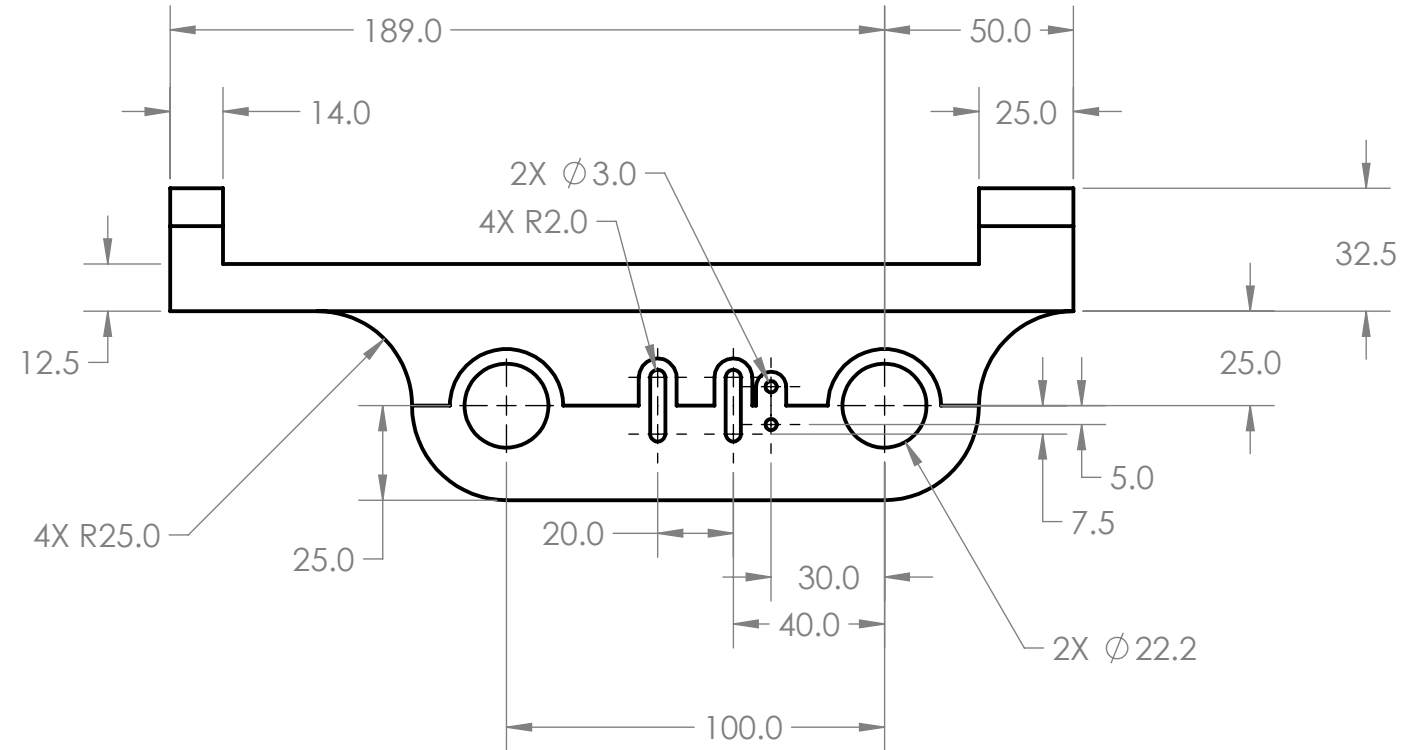
SCALE: 3:2

REV

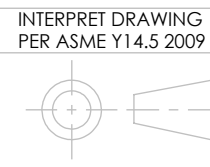
B

SIZE

B



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
63/FAO



CAL POLY
SAN LUIS OBISPO
DATE: 2/4/2026

MATERIAL:
PolyLite™ PLA Pro
DRAWN BY:
Antony Chen

PART #:
118000

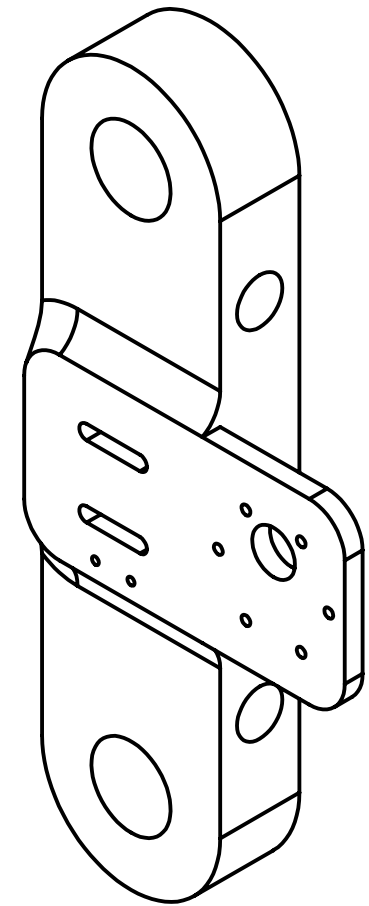
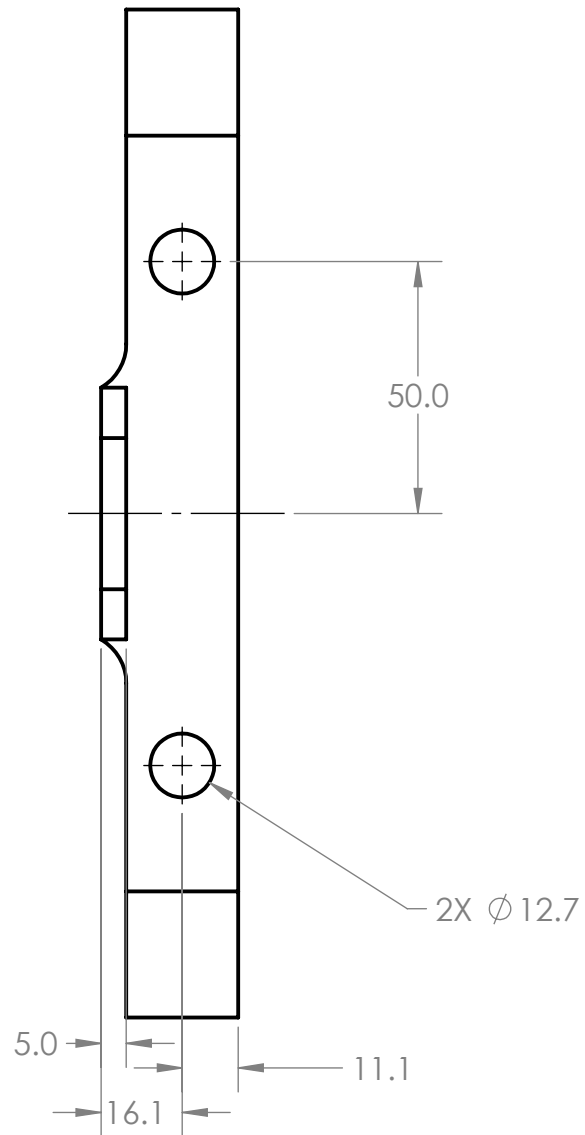
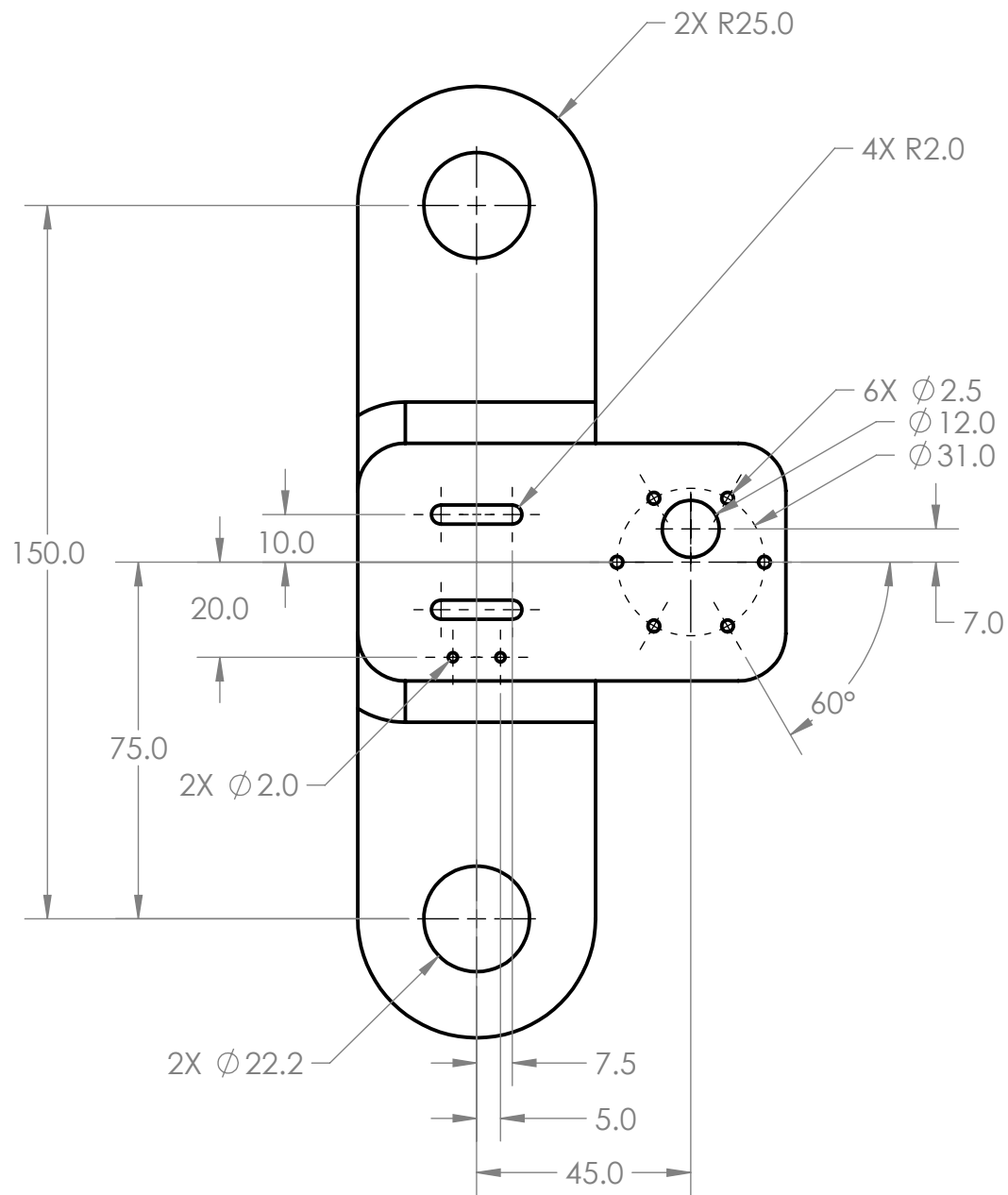
TITLE:
Bearing Arm Mount


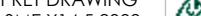
SHEET 1 OF 1

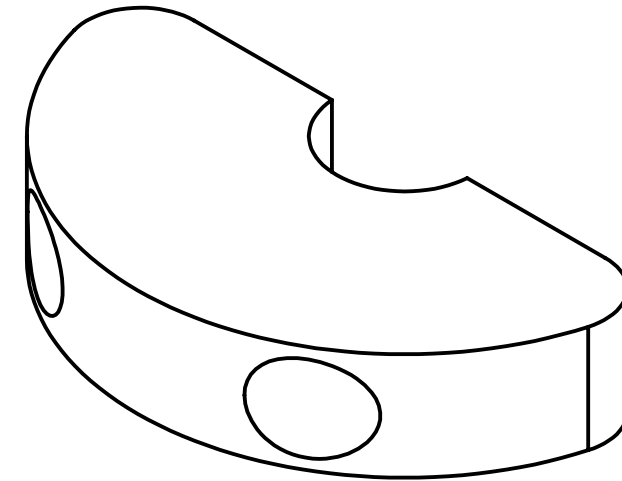
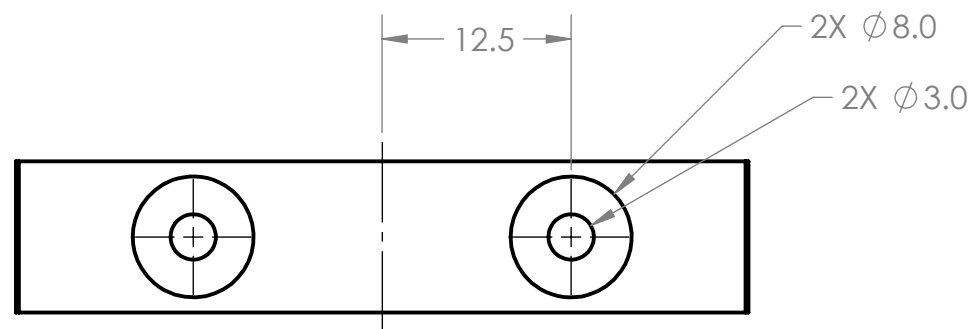
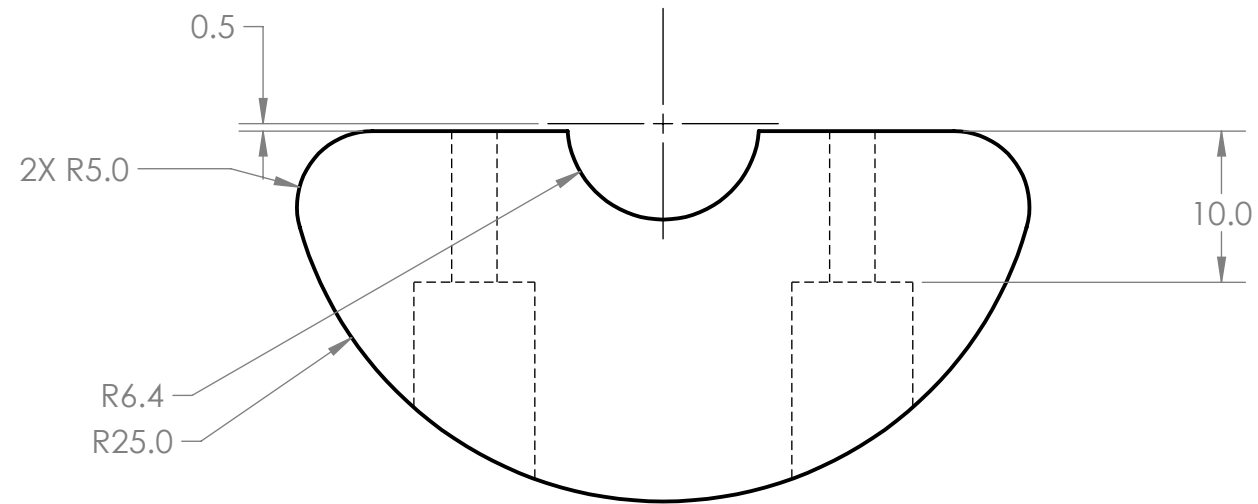
SCALE: 1:2

REV
B

SIZE
B

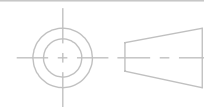


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM X.X=±0.5 ANGLES=±1° INSIDE TOOL RADIUS 0.5 MAX BREAK SHARP EDGES 0.1 MAX 63/FAO	INTERPRET DRAWING PER ASME Y14.5 2009	 <div>CAL POLY SAN LUIS OBISPO</div>	MATERIAL: PolyLite™ PLA Pro	PART #: 119000	TITLE: Bearing Mount				
			DATE: 2/4/2026	DRAWN BY: Antony Chen		SHEET 1 OF 1	SCALE: 2:3	REV B	SIZE B



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
63/
√ FAO

INTERPRET DRAWING
PER ASME Y14.5 2009



CAL POLY
SAN LUIS OBISPO

DATE:
2/4/2026

MATERIAL:
PolyLite™ PLA Pro

PART #:
11A000

TITLE:
Clamp

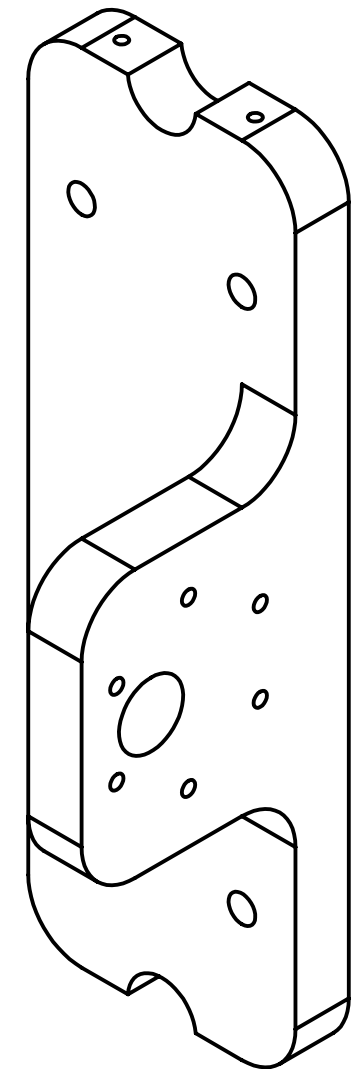
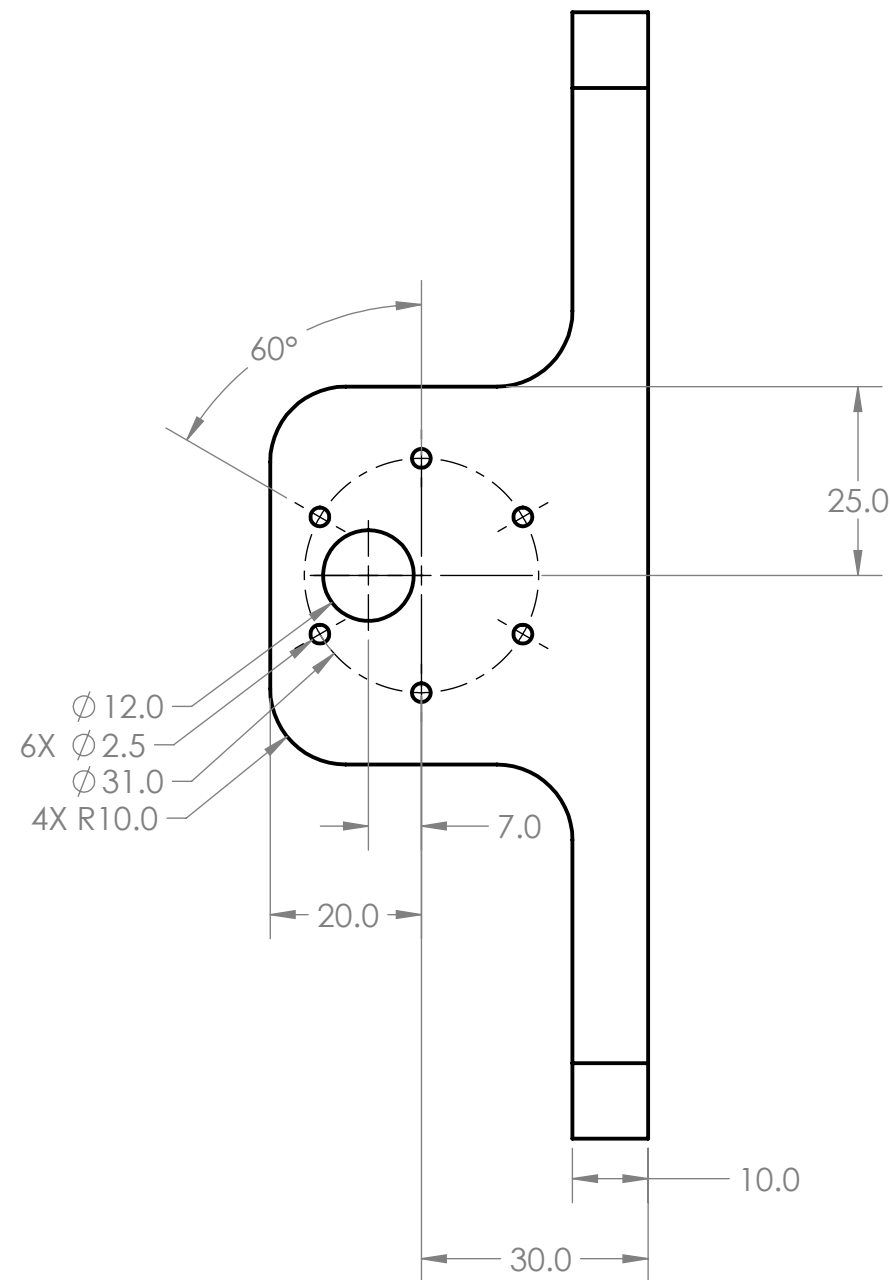
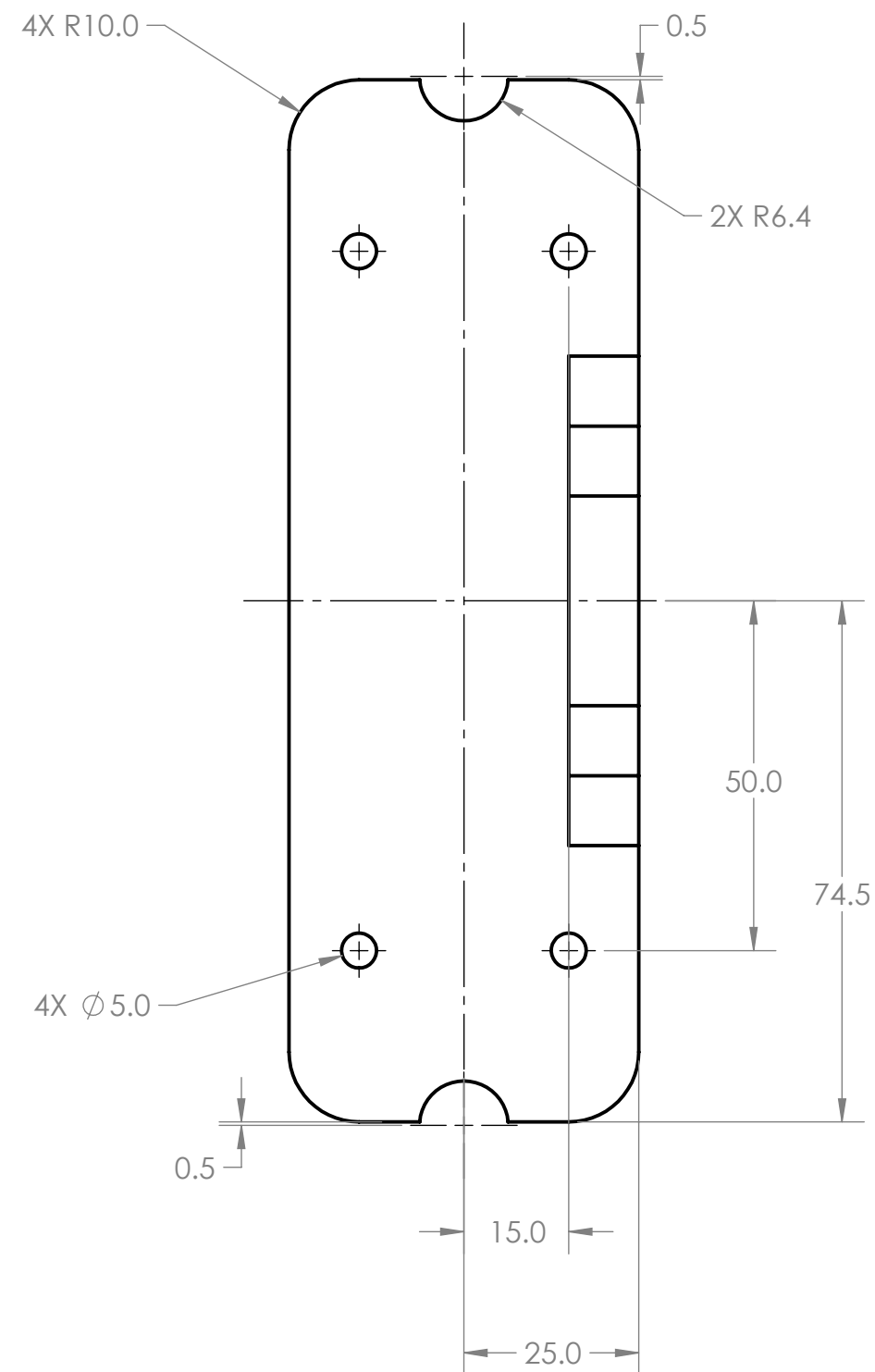
DRAWN BY:
Antony Chen

SHEET 1 OF 1

SCALE: 2:1

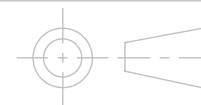
REV
B

SIZE
B



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
63/FAO

INTERPRET DRAWING
PER ASME Y14.5 2009



DATE:
2/4/2026

MATERIAL:
PolyLite™ PLA Pro

PART #:
11B000

TITLE:
Rails Bottom Mount

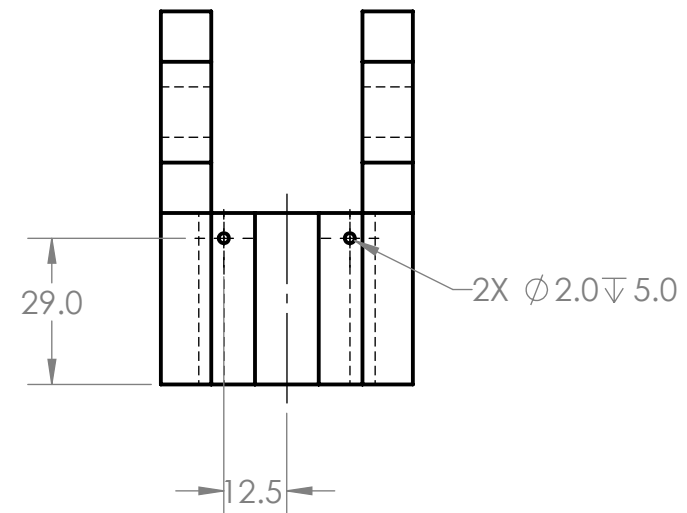
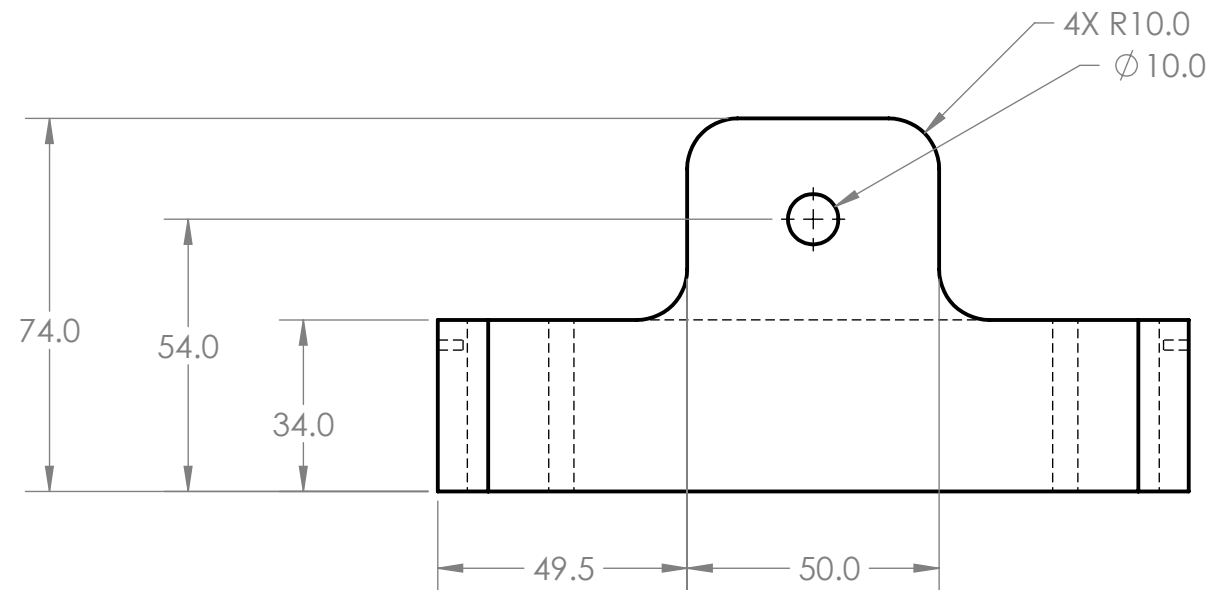
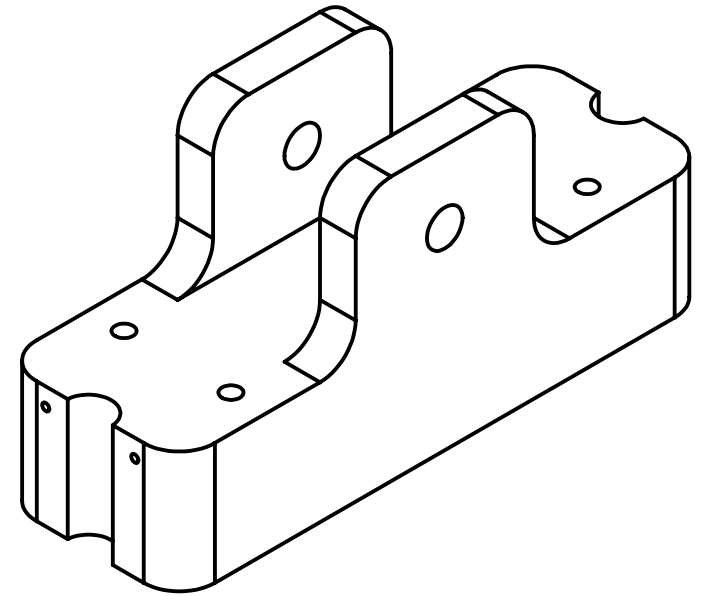
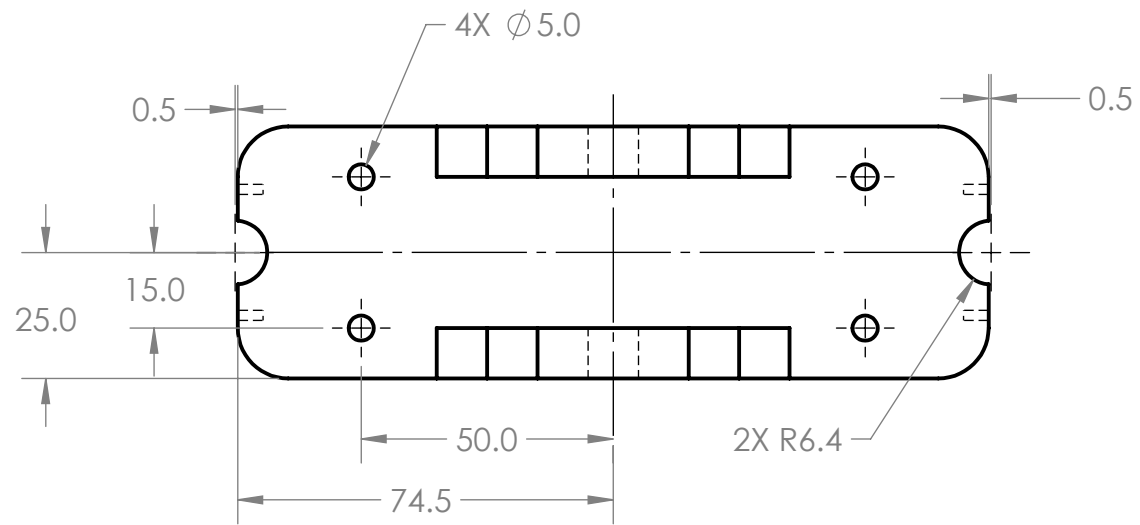
DRAWN BY:
Antony Chen

SHEET 1 OF 1

SCALE: 1:1

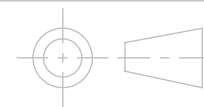
REV
B

SIZE
B



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
63/√FAO

INTERPRET DRAWING
PER ASME Y14.5 2009



DATE:
2/4/2026

MATERIAL:
PolyLite™ PLA Pro

DRAWN BY:
Antony Chen

PART #:
11C000

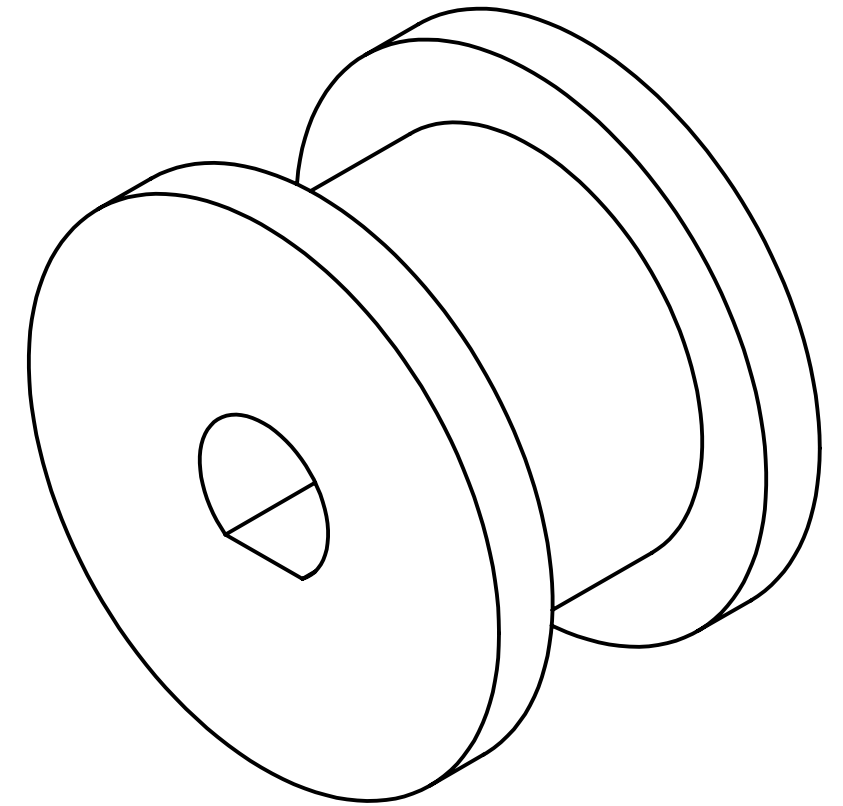
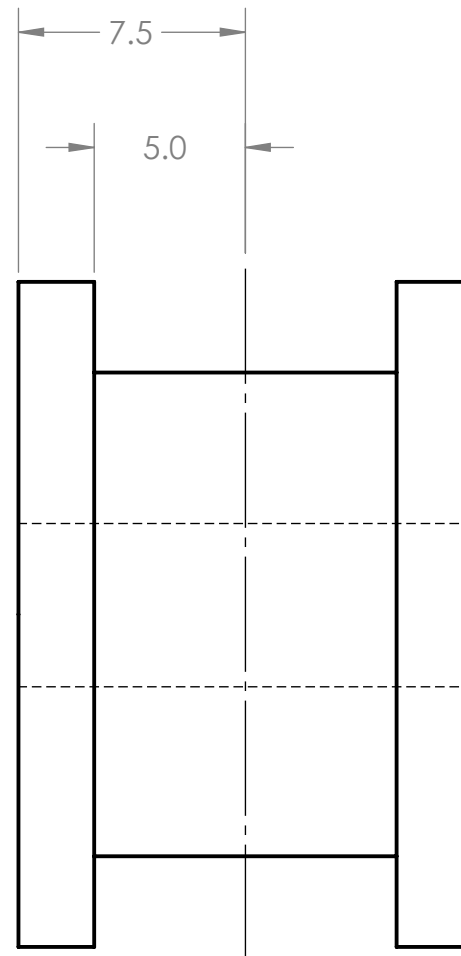
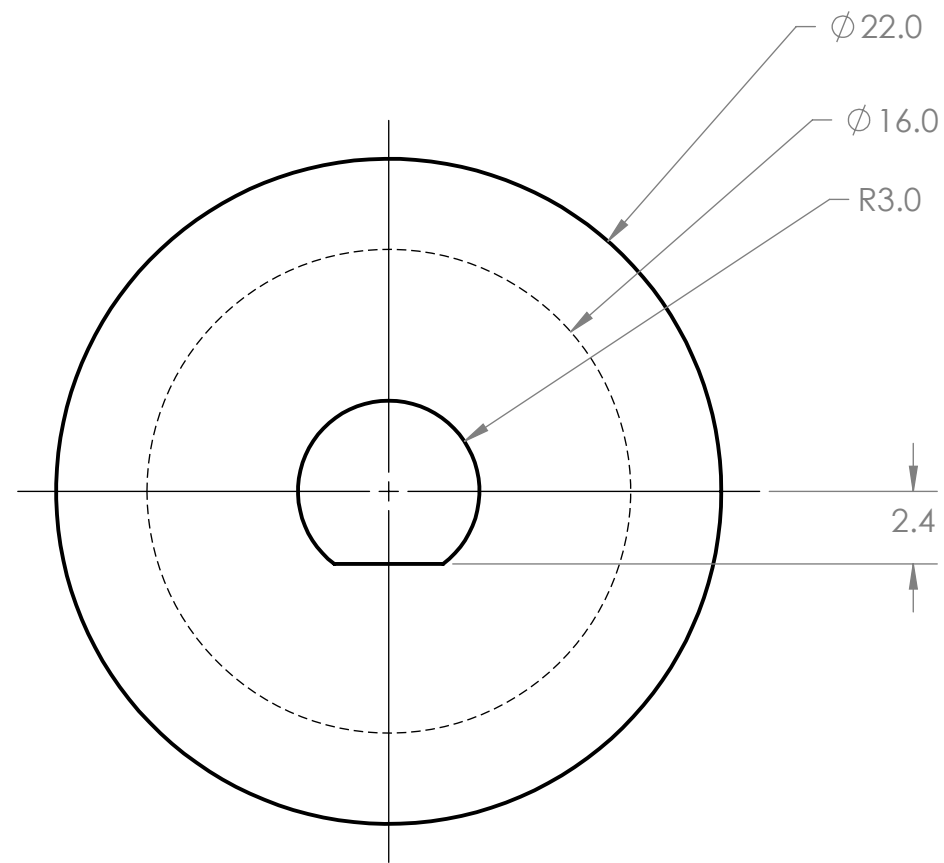
TITLE:
Rails Top Mount

SHEET 1 OF 1

SCALE: 2:3

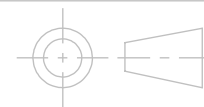
REV
B

SIZE
B



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
63/√FAO

INTERPRET DRAWING
PER ASME Y14.5 2009



DATE:
2/4/2026

MATERIAL:
PolyLite™ PLA Pro

DRAWN BY:
Antony Chen

PART #:
11D000

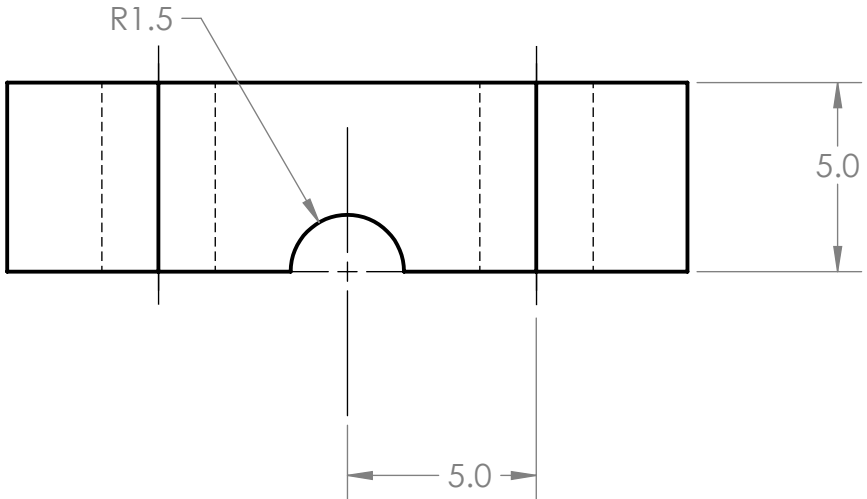
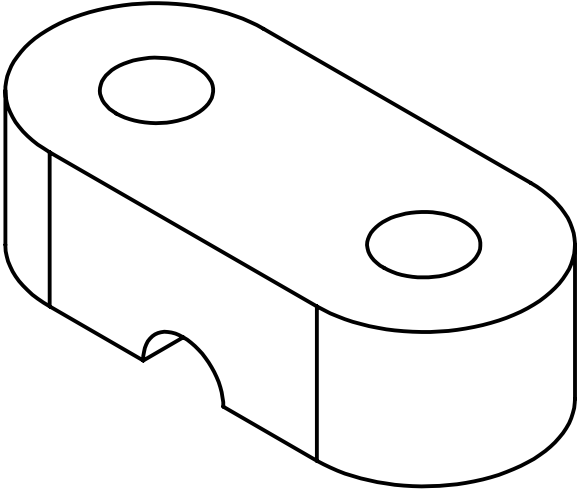
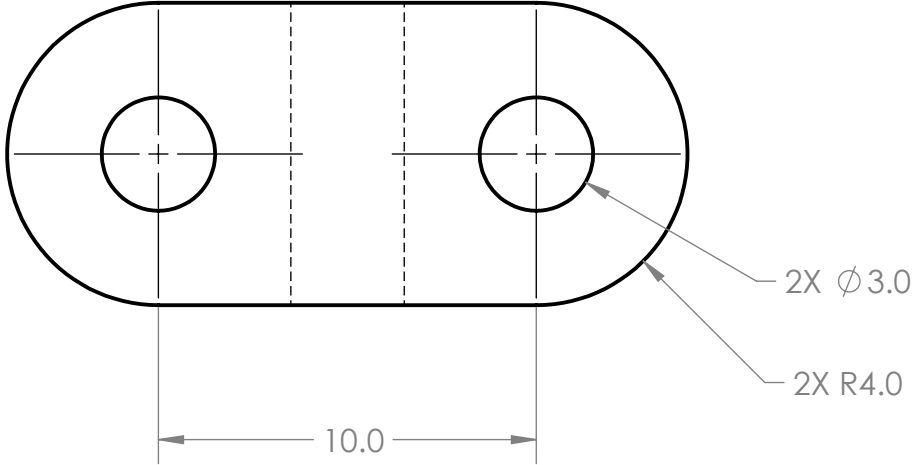
TITLE:
Spool



SHEET 1 OF 1

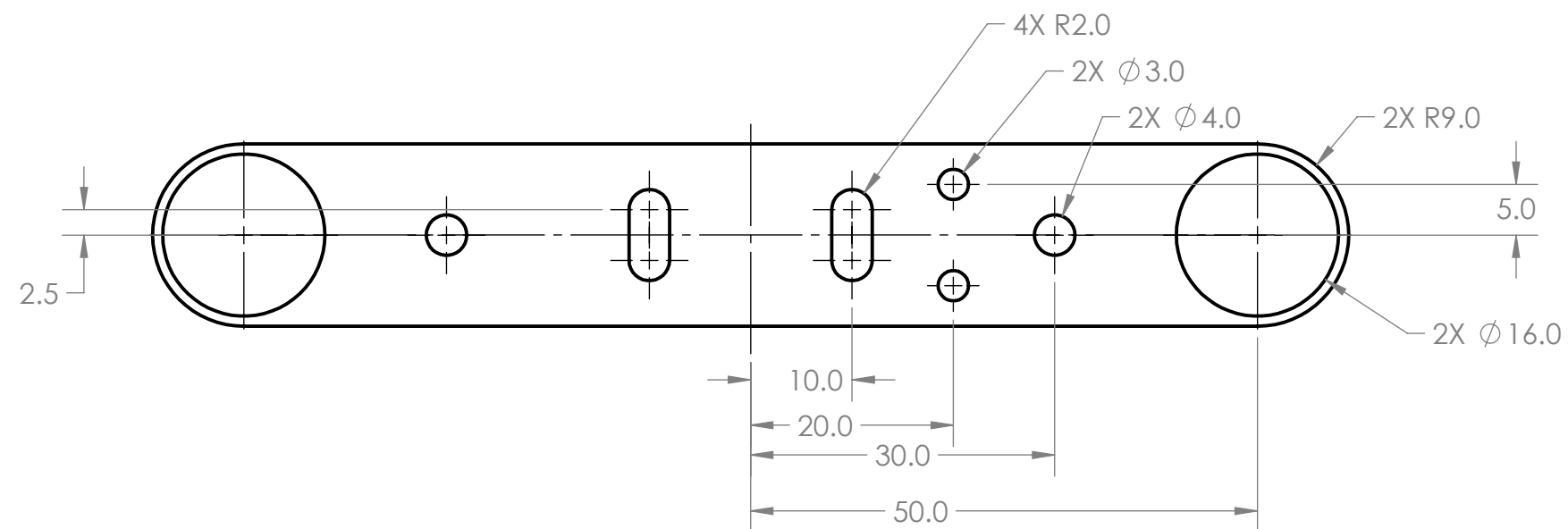
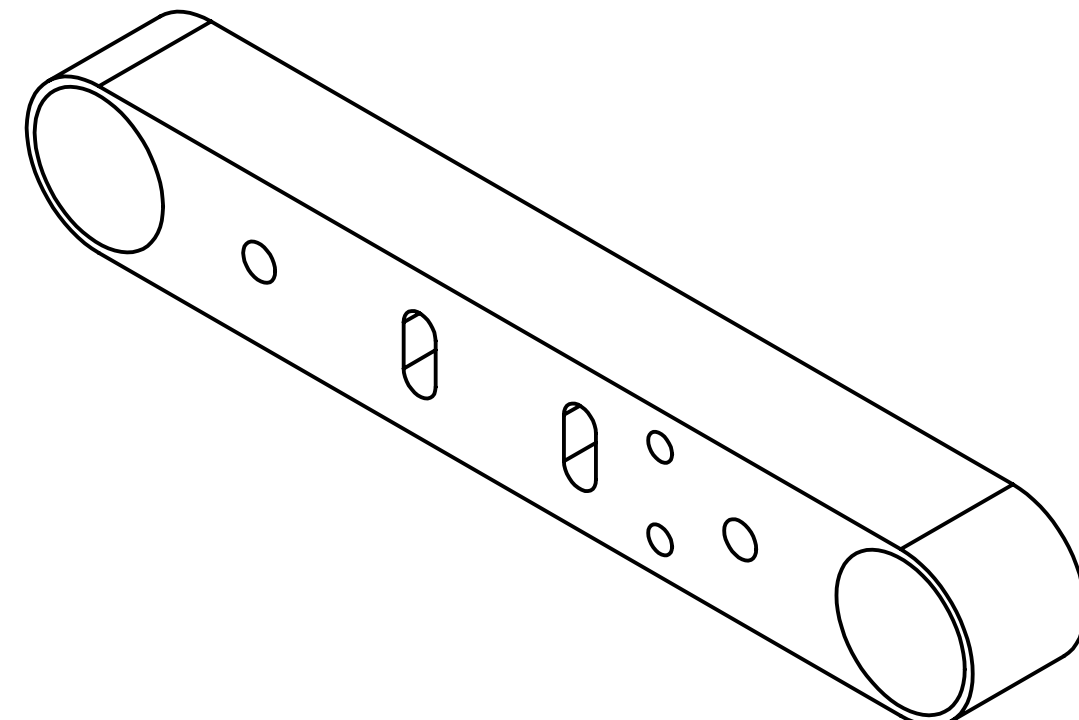
SCALE: 4:1

REV
B

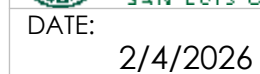

SIZE
B



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM X.X=±0.5 ANGLES=±1° INSIDE TOOL RADIUS 0.5 MAX BREAK SHARP EDGES 0.1 MAX 63/ FAO	INTERPRET DRAWING PER ASME Y14.5 2009		MATERIAL: PolyLite™ PLA Pro	PART #: 11E000	TITLE: String Clamp				
			DATE: 2/4/2026	DRAWN BY: Antony Chen	SHEET 1 OF 1	SCALE: 5:1	REV B	SIZE B	



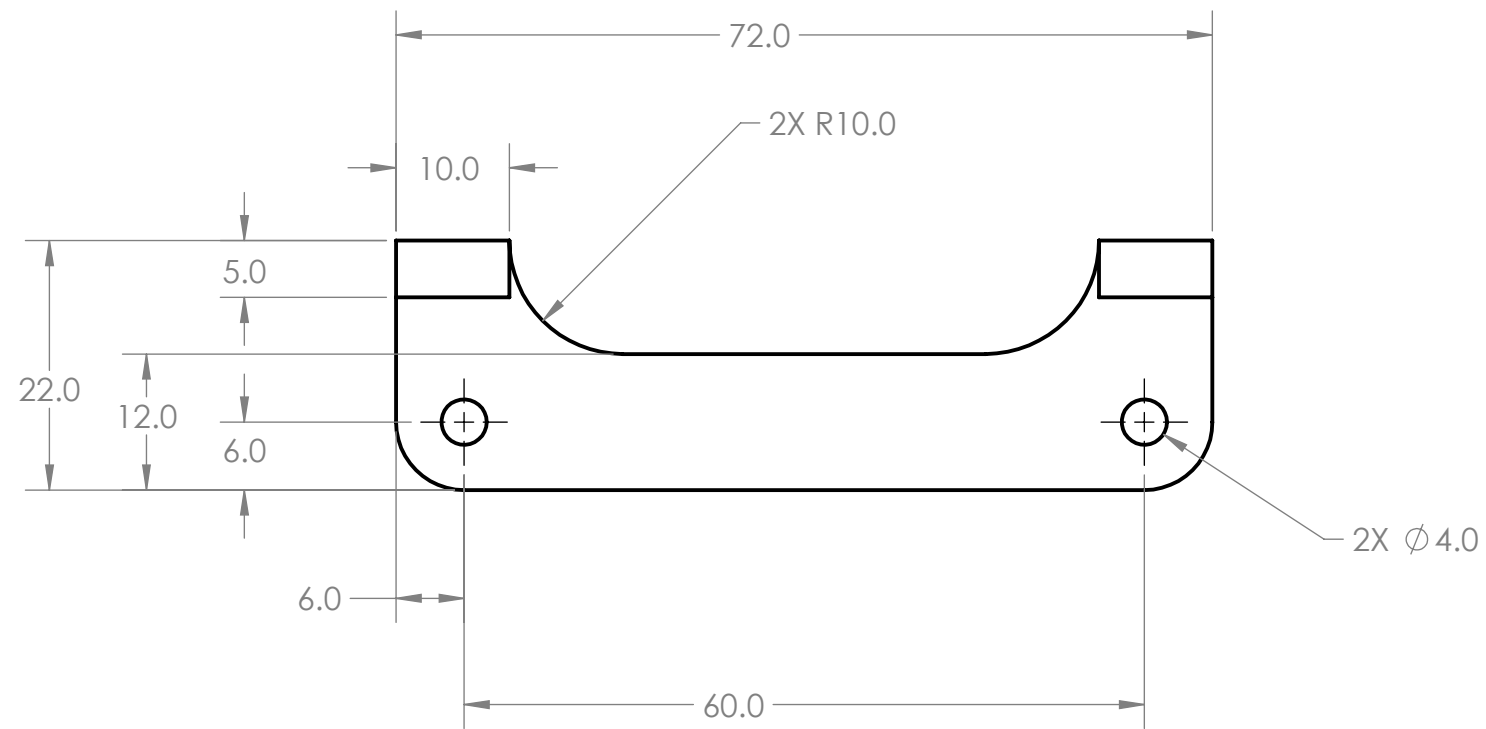
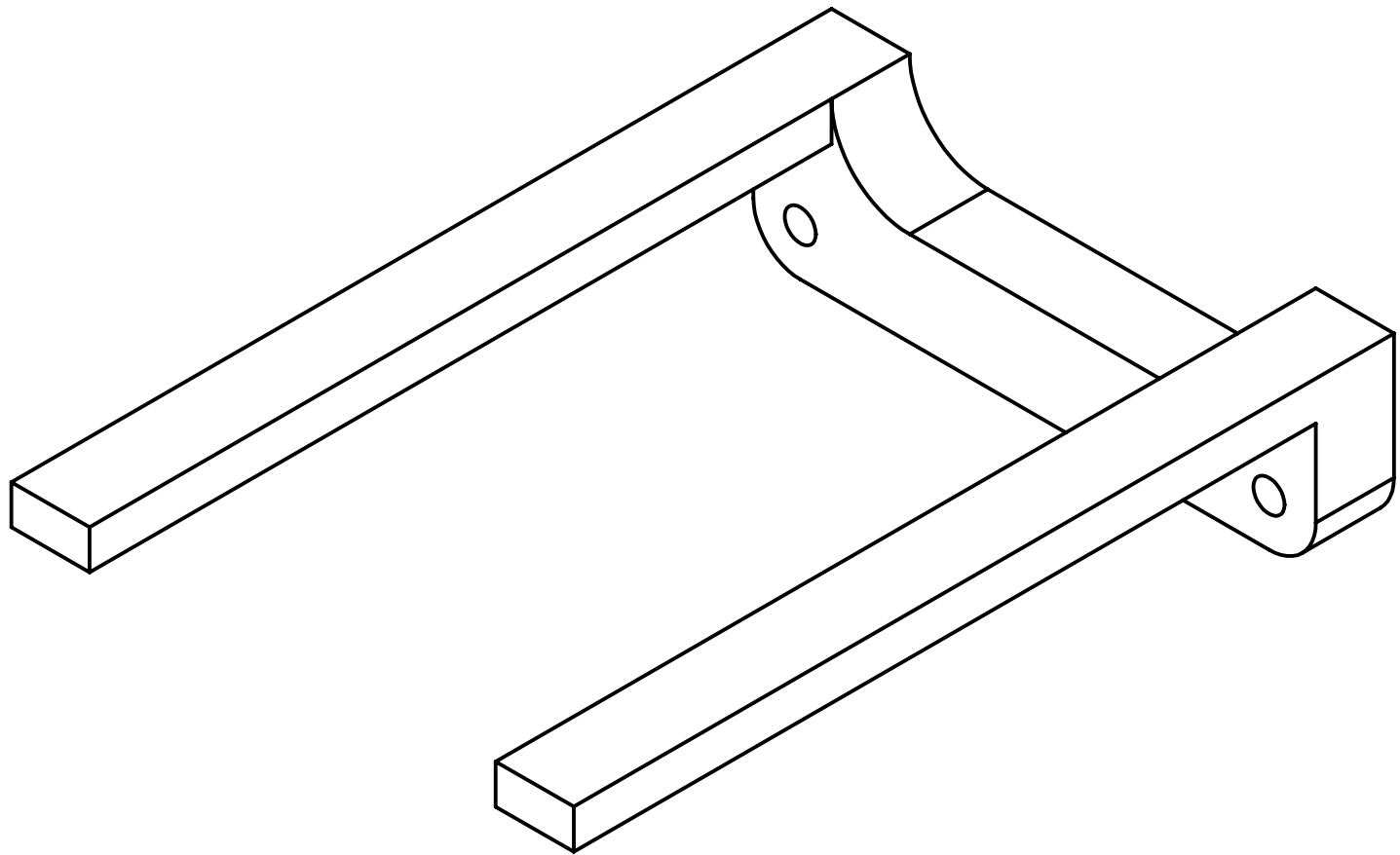
INTERPRET DRAWING
PER ASME Y14.5 2009



<p>DRAWN BY:</p> <p>Antony Chen</p>

SCALE: 3:2

REV	SIZE
B	B



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM X.X=±0.5 ANGLES=±1° INSIDE TOOL RADIUS 0.5 MAX BREAK SHARP EDGES 0.1 MAX 63/FAO	INTERPRET DRAWING PER ASME Y14.5 2009 	CAL POLY SAN LUIS OBISPO	MATERIAL: PolyLite™ PLA Pro	PART #: 11G000	TITLE: Stage Telescopic Top		REV B	SIZE B
			DATE: 2/4/2026	DRAWN BY: Antony Chen	SHEET 1 OF 1	SCALE: 3:2		

// 0.1 B

481.0

B

A

762.5

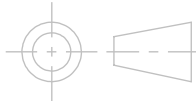
// 0.5 A

▱ 0.25

9.5

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
63/√FAO

INTERPRET DRAWING
PER ASME Y14.5 2009



CAL POLY
SAN LUIS OBISPO

DATE:
2/4/2026

MATERIAL:
Plywood

PART #:
120000

TITLE:
Body Wall

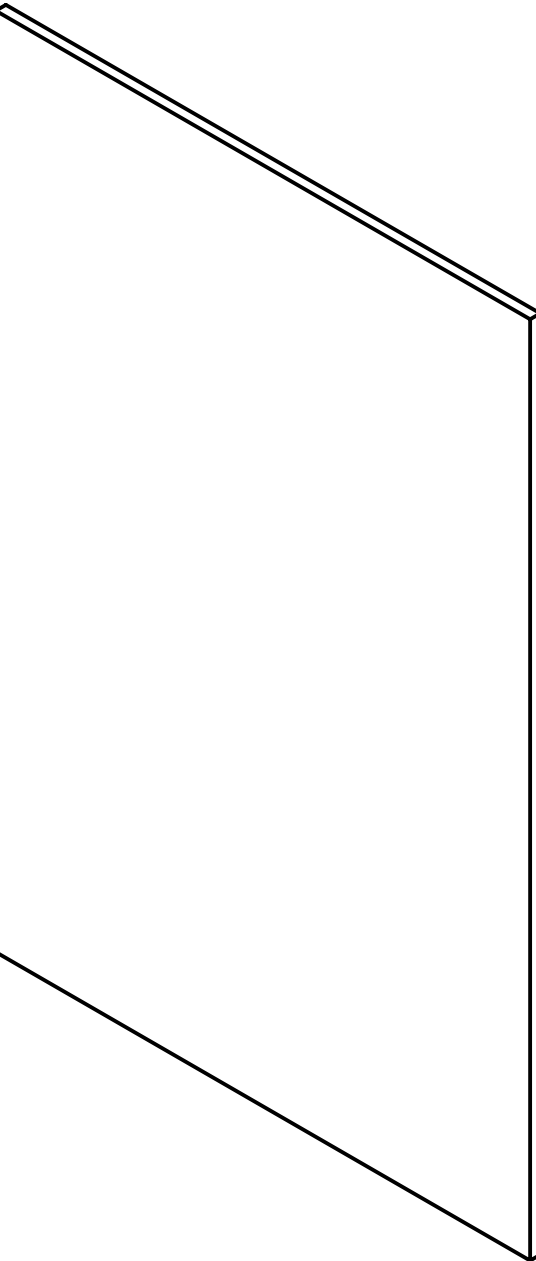
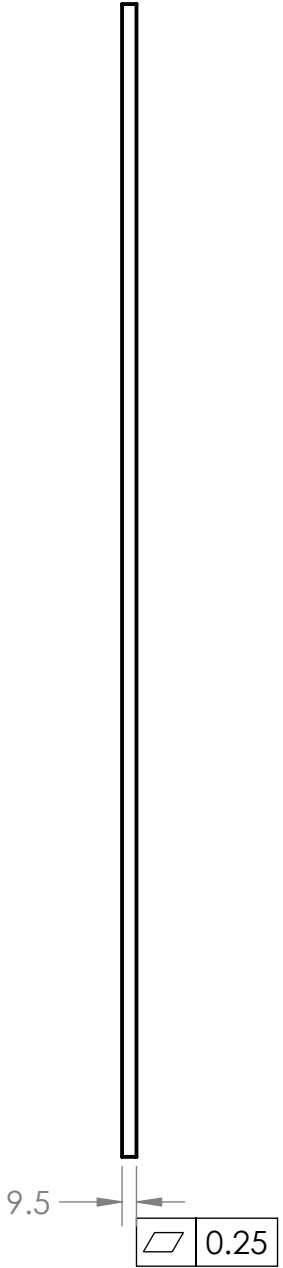
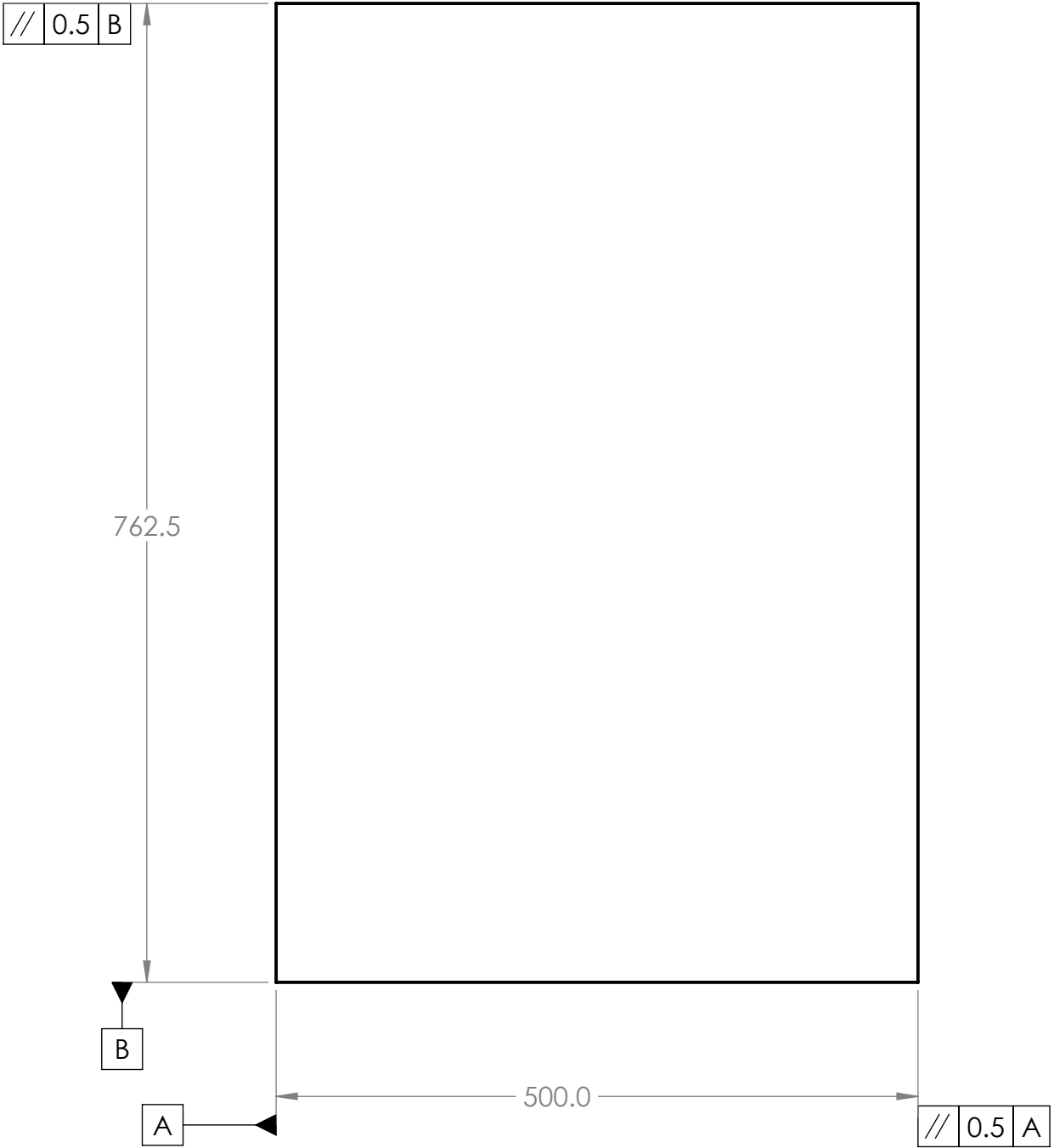
DRAWN BY:
Antony Chen



SHEET 1 OF 1

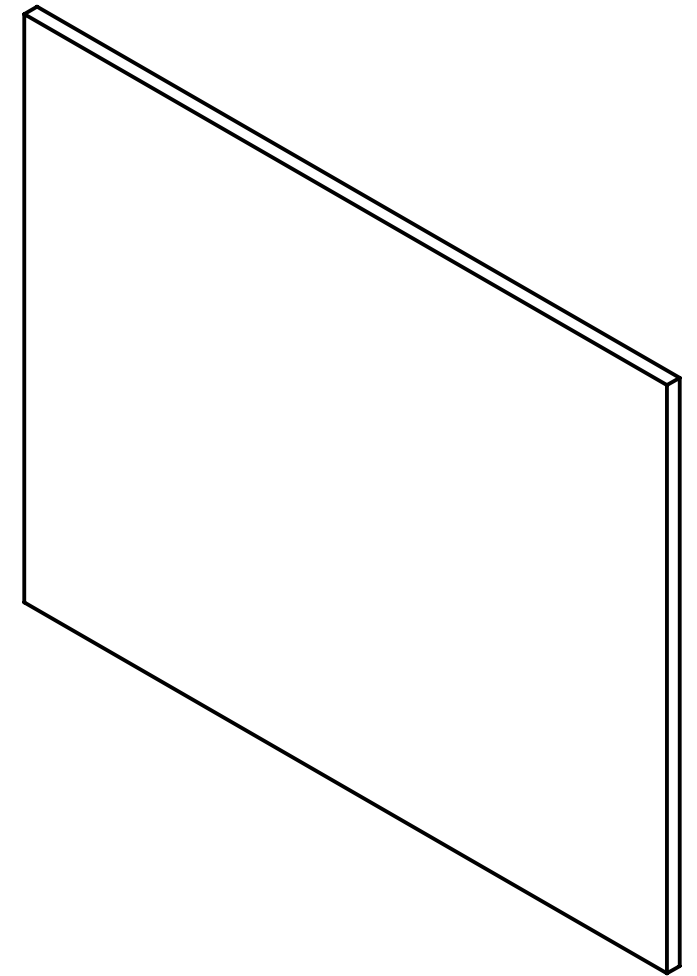
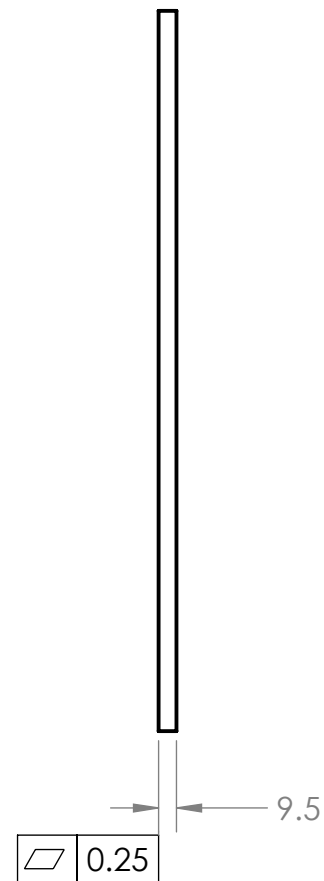
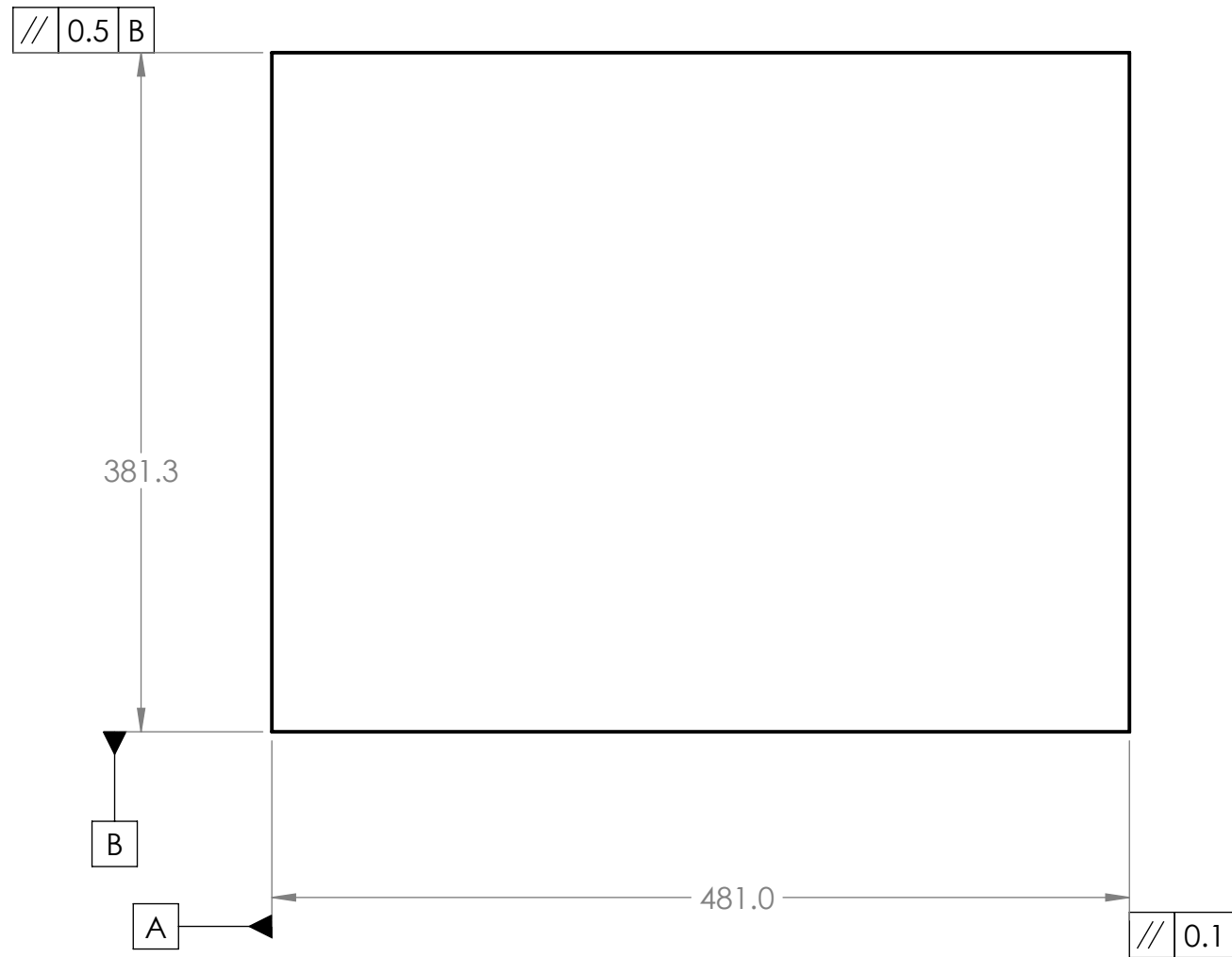
SCALE: 1:5


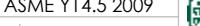
REV
B

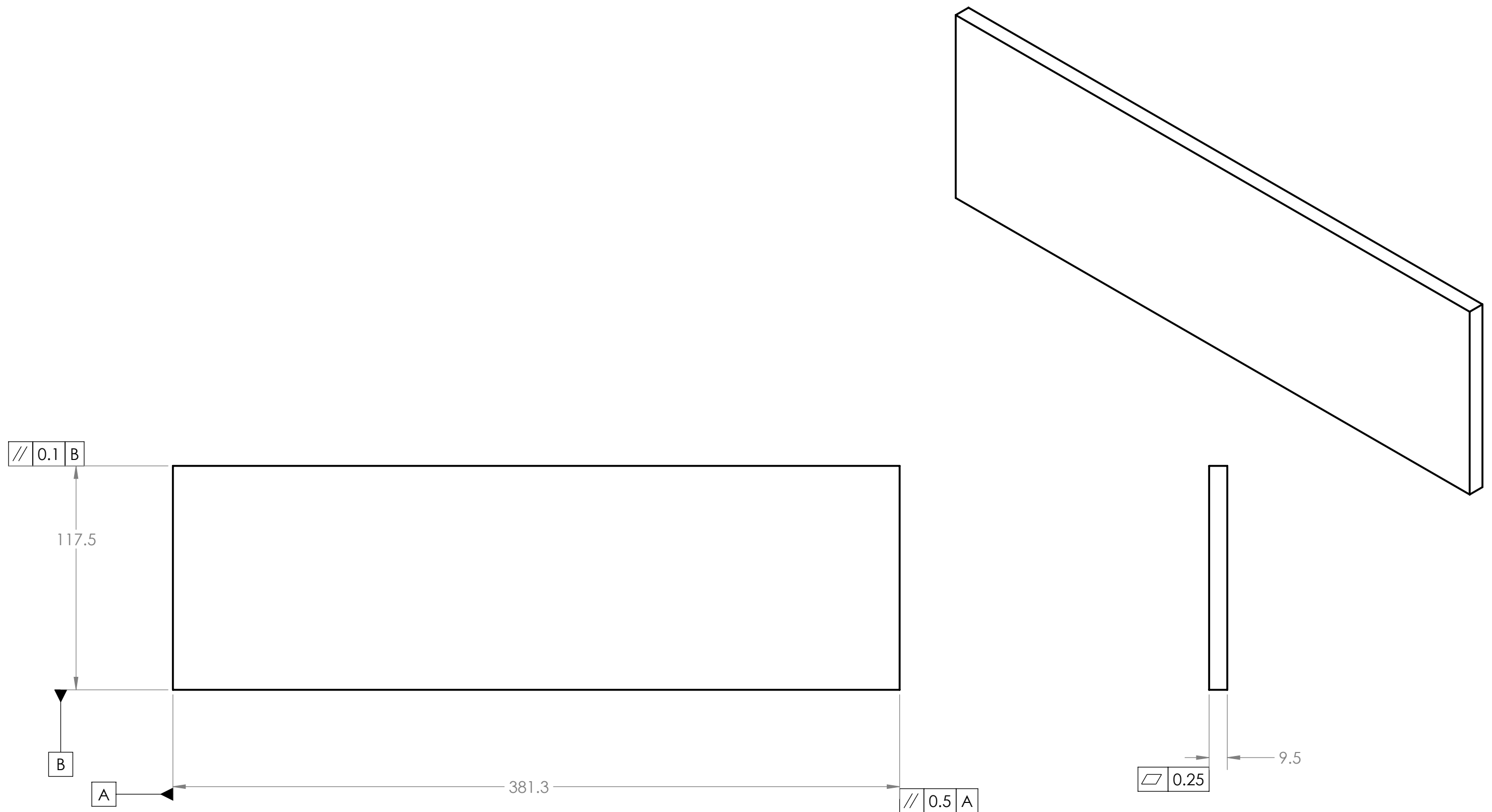
SIZE
B



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM X.X=±0.5 ANGLES=±1° INSIDE TOOL RADIUS 0.5 MAX BREAK SHARP EDGES 0.1 MAX 63/ FAO	INTERPRET DRAWING PER ASME Y14.5 2009 	 CAL POLY SAN LUIS OBISPO	MATERIAL: Plywood	PART #: 130000	TITLE: Body Plate			
			DATE: 2/4/2026	DRAWN BY: Antony Chen	SHEET 1 OF 1	SCALE: 1:5	REV B	SIZE B

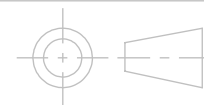


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM X.X=±0.5 ANGLES=±1° INSIDE TOOL RADIUS 0.5 MAX BREAK SHARP EDGES 0.1 MAX 63/FAO	INTERPRET DRAWING PER ASME Y14.5 2009	 CAL POLY SAN LUIS OBISPO	MATERIAL: Plywood	PART #: 1 40000	TITLE: shelf plate				
			DATE: 2/4/2026	DRAWN BY: Antony Chen	SHEET 1 OF 1	SCALE: 1:4	REV B	SIZE B	



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
X.X=±0.5
ANGLES=±1°
INSIDE TOOL RADIUS 0.5 MAX
BREAK SHARP EDGES 0.1 MAX
✓ 63/ FAO

INTERPRET DRAWING
PER ASME Y14.5 2009



CAL POLY
SAN LUIS OBISPO

DATE: 2/4/2026

MATERIAL:
Plywood

DRAWN BY: Antony Chen

PART #:	150000
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TITLE:	shelf wall
--------	------------

SHEET 1 OF 1

SCALE: 1:2

REV
B

SIZE
B