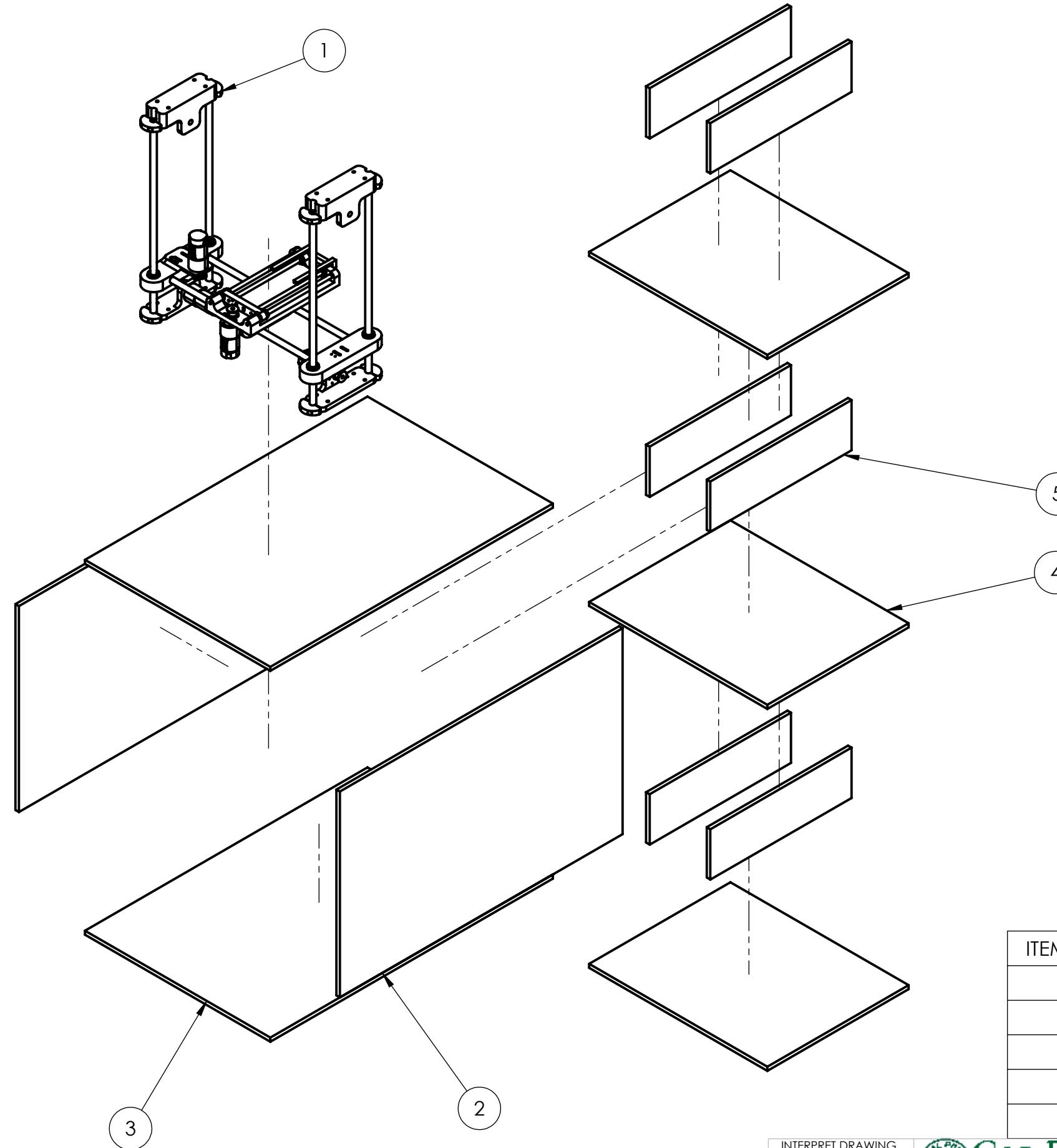


UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X,X= \pm 0.5$   
 $ANGLES = \pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\sqrt{FAO}$

INTERPRET DRAWING  
PER ASME Y14.5 2009

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

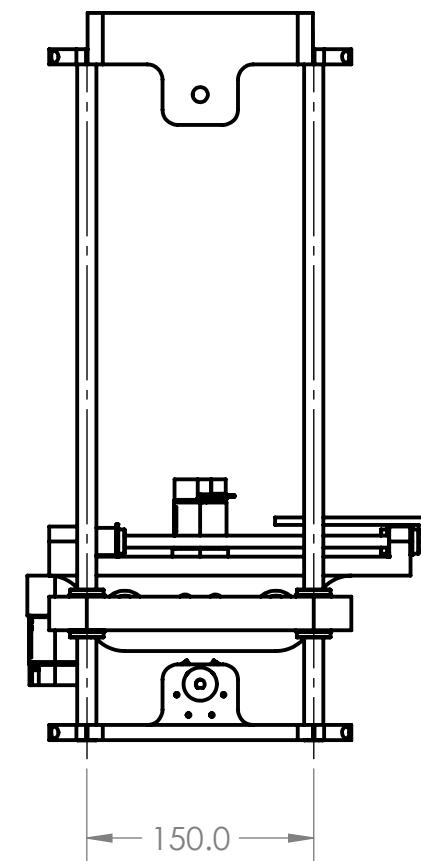
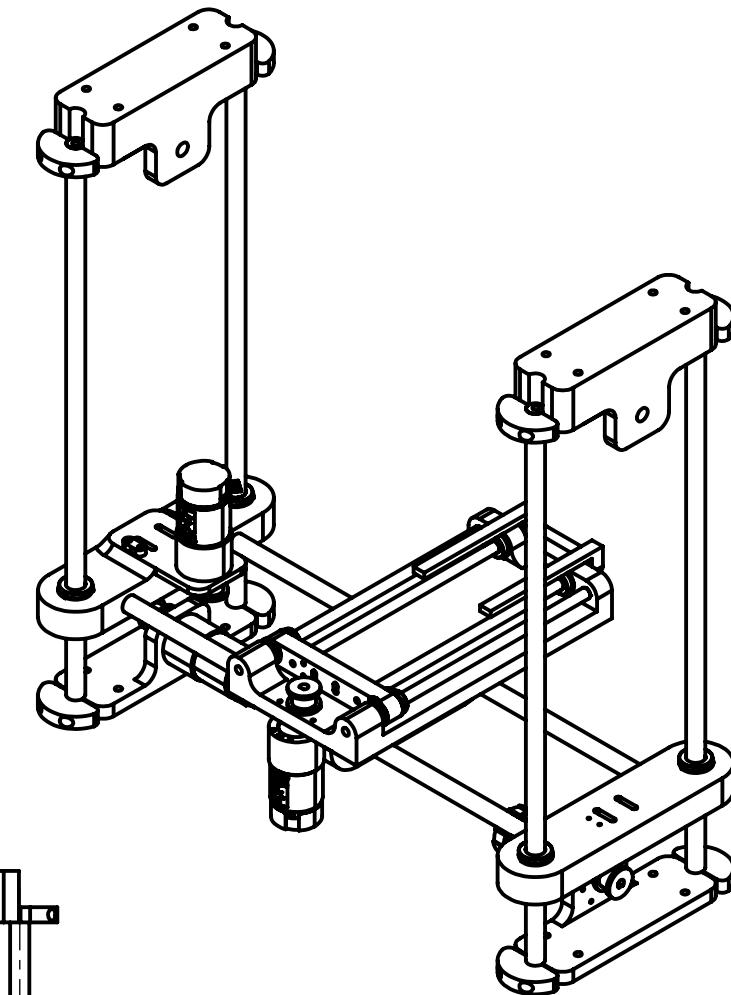
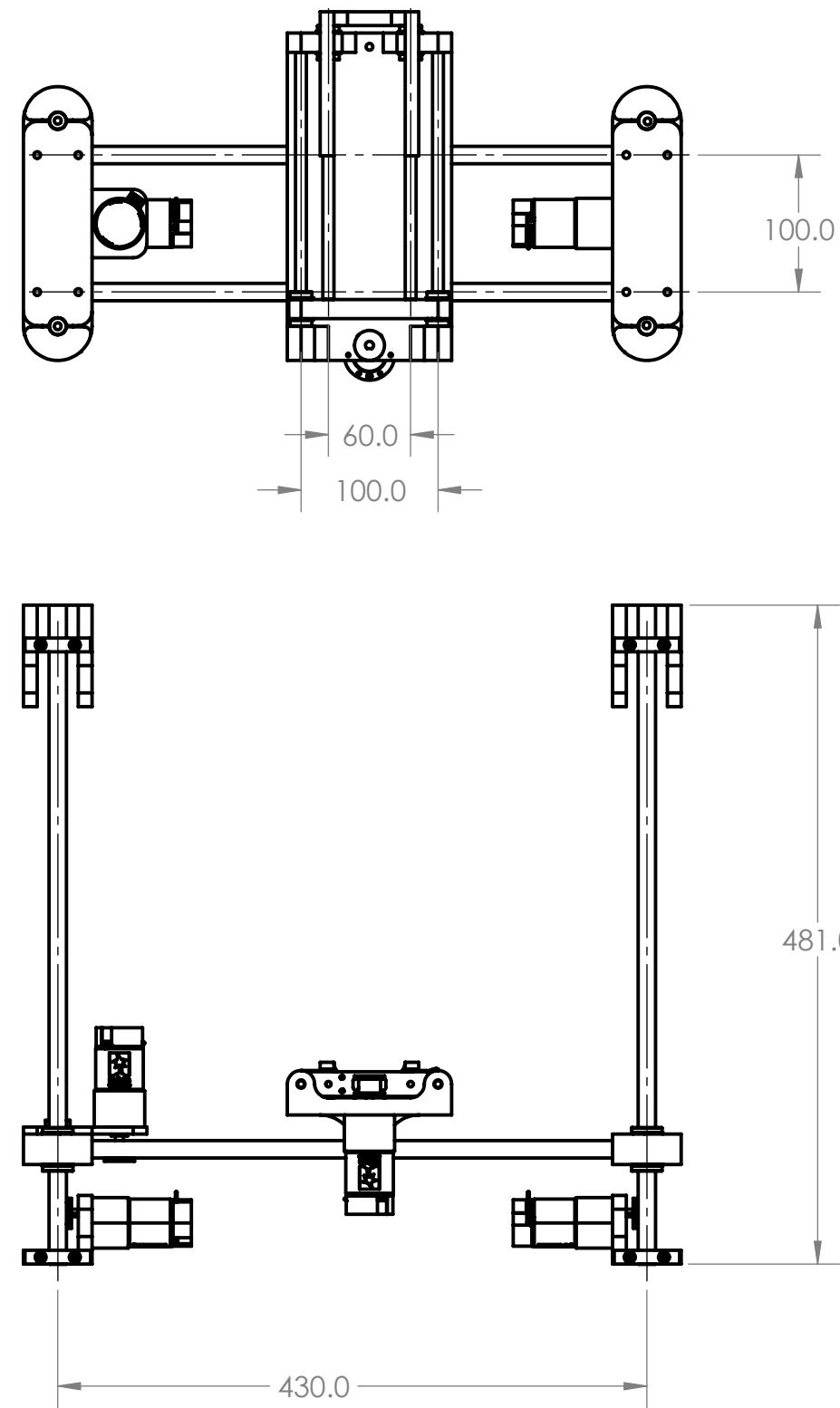
MATERIAL: PART #: TITLE:  
100000 Collection Rover  
DRAWN BY: Antony Chen SHEET 1 OF 1 SCALE: 1:6 REV B SIZE B



INTERPRET DRAWING  
PER ASME Y14.5 2009  


 CAL POLY  
SAN LUIS OBISPO

MATERIAL:	PART #:	TITLE:
Collection Rover(Exploded)		
DRAWN BY: Antony Chen	SHEET 1 OF 1	SCALE: 1:9

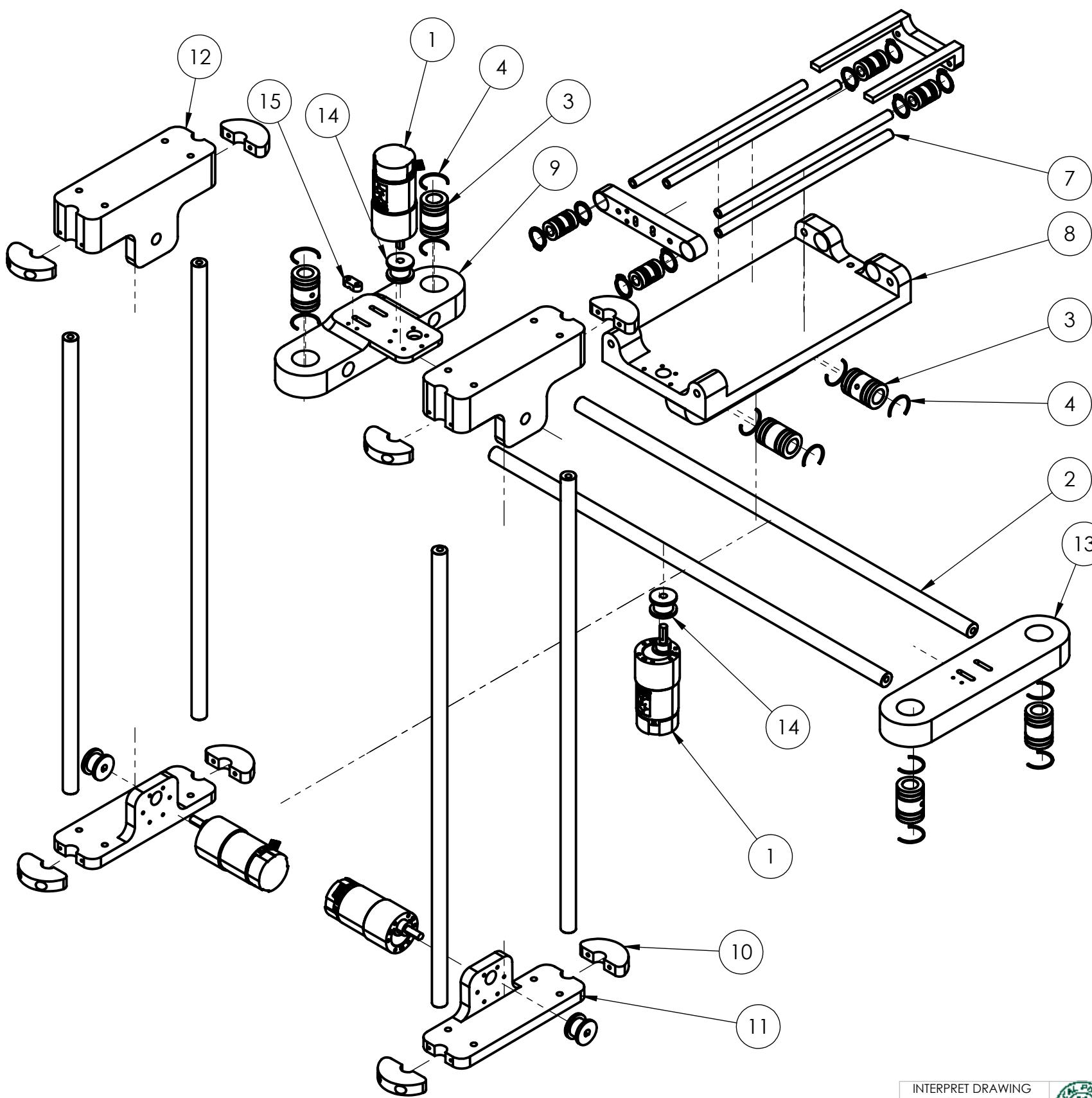


UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X,X= \pm 0.5$   
 $ANGLES= \pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
FAO

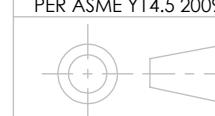
INTERPRET DRAWING  
PER ASME Y14.5 2009



MATERIAL:	PART #:	TITLE:
	110000	VP Elevator
DATE:	DRAWN BY:	
2/4/2026	Antony Chen	
SHEET 1 OF 1	SCALE: 1:5	REV B SIZE B



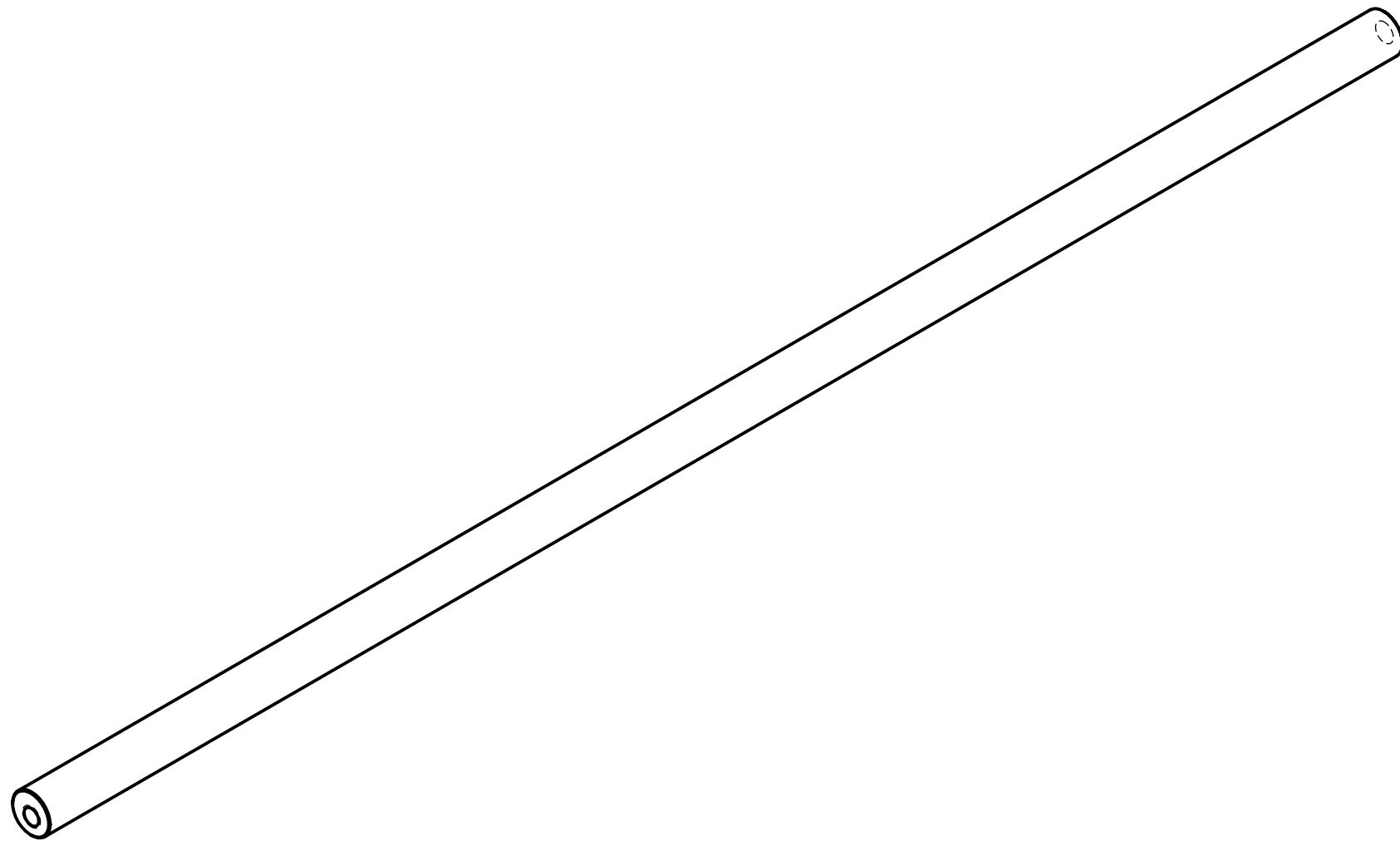
INTERPRET DRAWING  
PER ASME Y14.5 2009



DATE:

2/4/2026

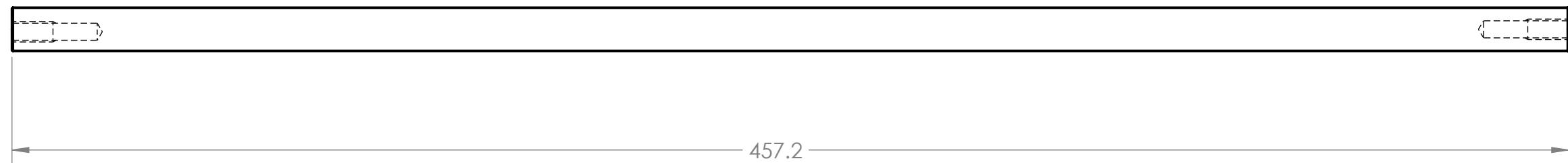
MATERIAL:	PART #:	TITLE: VP Elevator (Exploded)		
DRAWN BY:		Antony Chen	SHEET 1 OF 1	SCALE: 1:4
REV	SIZE	B	B	
1	111000	37d-gearmotor-100-131-150-encoder	4	
2	112000	6061K43	6	
3	113000	6673K13	6	
4	114000	9968K24	12	
5	115000	6673K37	4	
6	116000	9968K32	8	
7	117000	6112K44	4	
8	118000	Bearing Arm Mount	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	



2X  $\phi$  5.0  $\downarrow$  25.0  
M6X1.0 - 6H  $\downarrow$  12.0  
 $\pm 0.1$  A

$\phi$  12.7 $\pm 0.1$

A



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X=\pm 0.5$   
 $ANGLES=\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\sqrt{FAO}$

INTERPRET DRAWING  
PER ASME Y14.5 2009



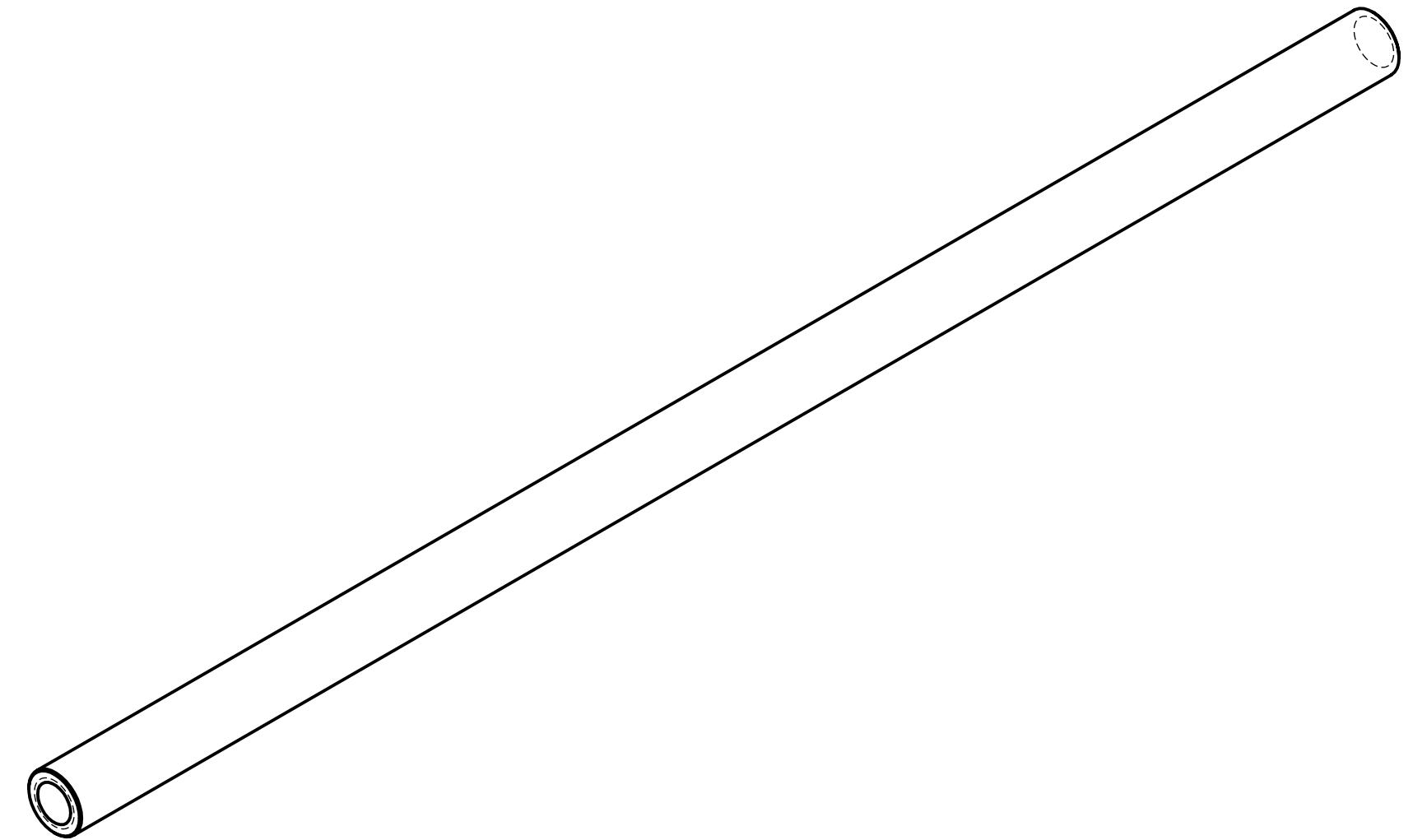
CAL POLY  
SAN LUIS OBISPO

DATE:  
2/4/2026

MATERIAL:  
1566 Carbon Steel  
PART #:  
112000

TITLE:  
6061K43\_Linear Motion Shaft  
DRAWN BY:  
Antony Chen

SHEET 1 OF 1  
SCALE: 2:3  
REV B  
SIZE B



2X  $\phi$  5.0  $\downarrow$  25.0  
M6X1.0 - 6H  $\downarrow$  12.0

$\pm 0.1$



A

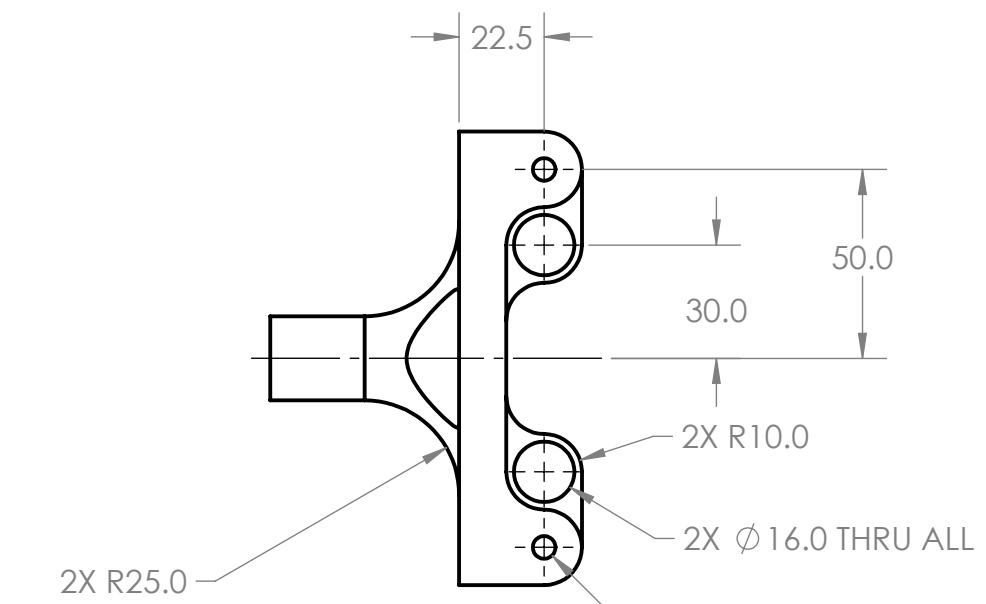
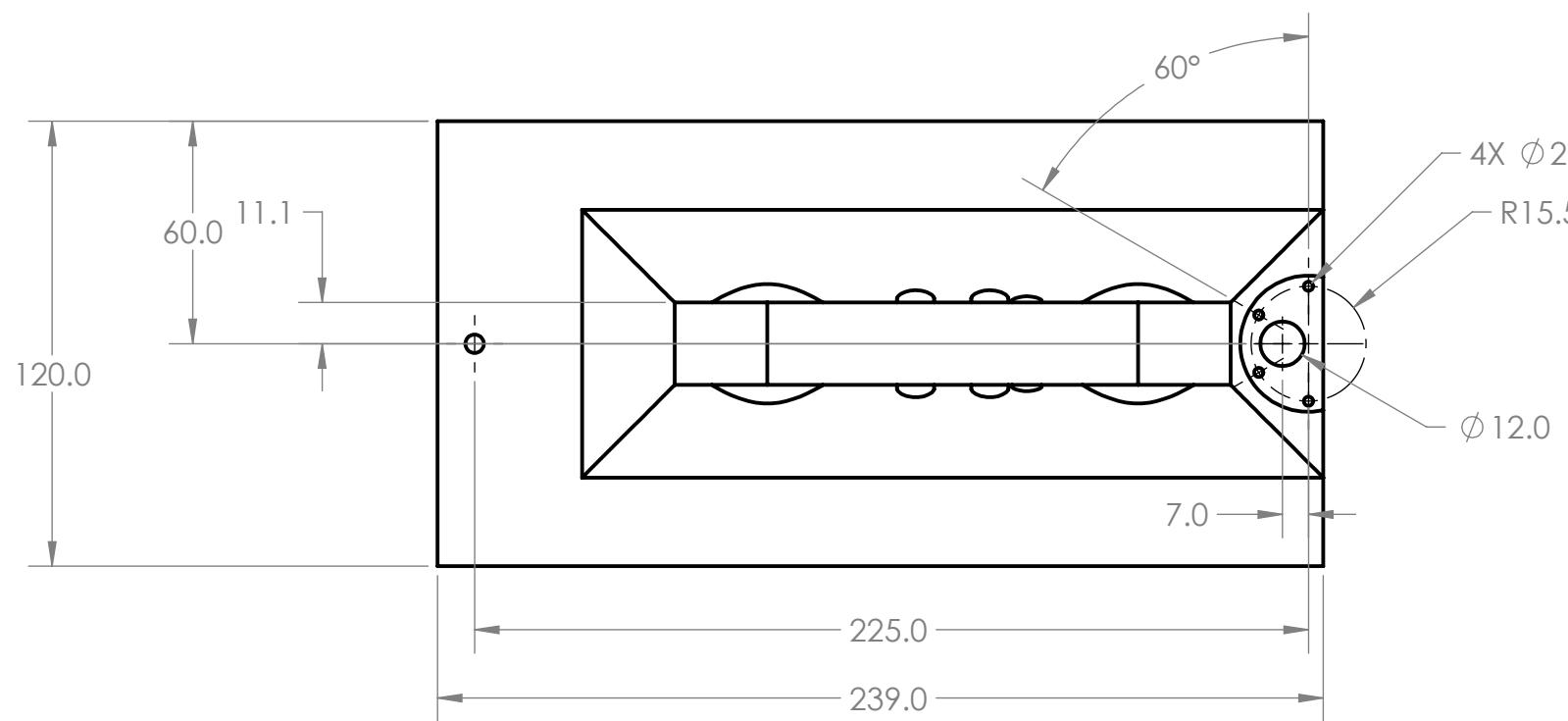
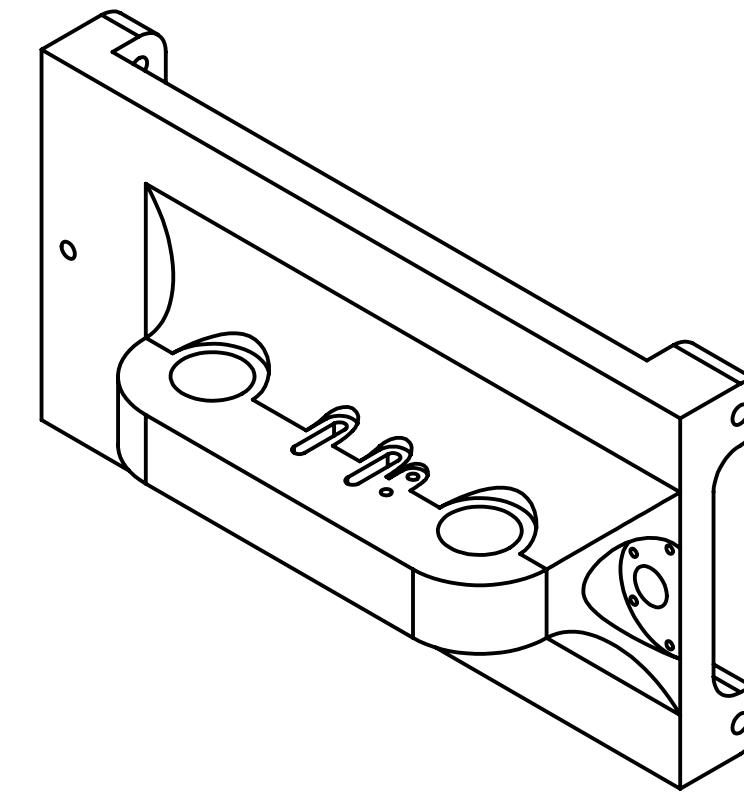
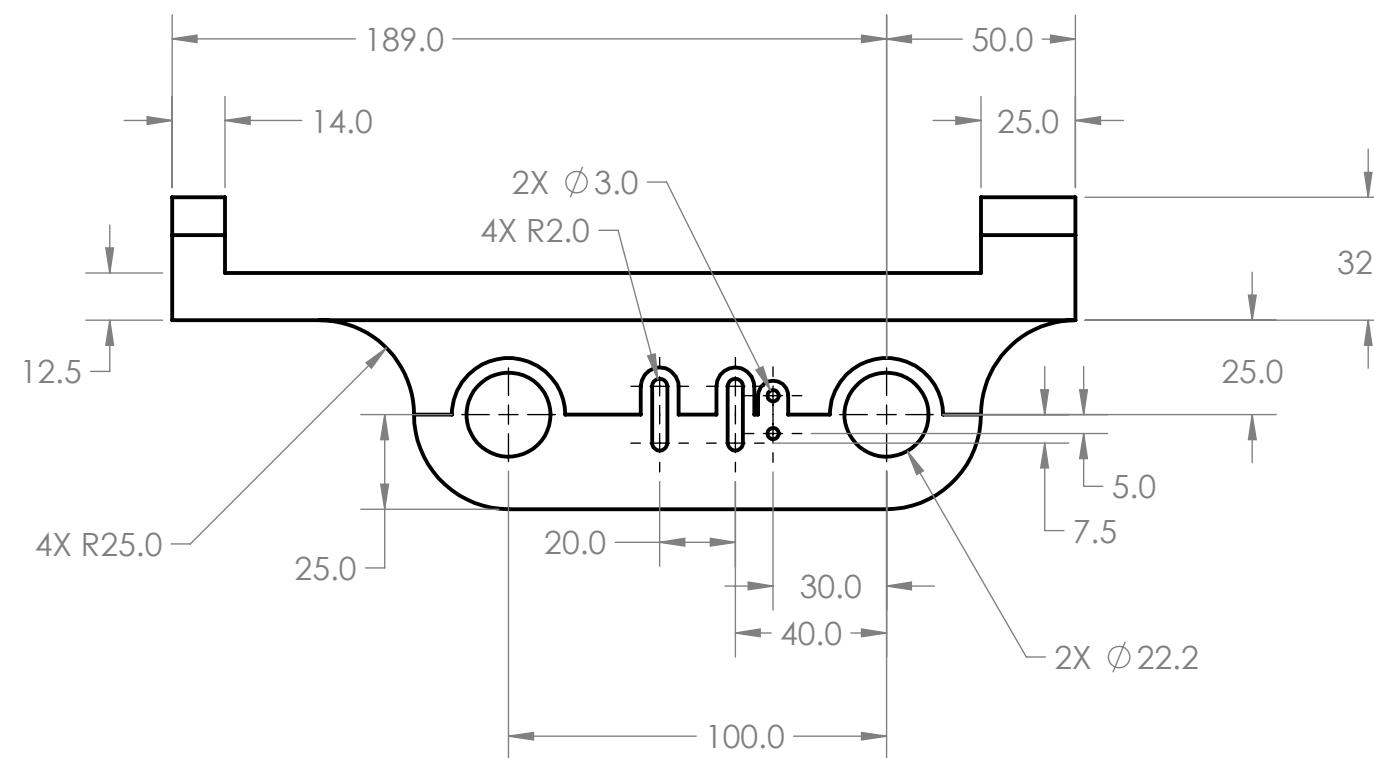


UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X=\pm 0.5$   
 $ANGLES=\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\sqrt{FAO}$

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  
 $X,X=\pm 0.5$   
ANGLES= $\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
FAO

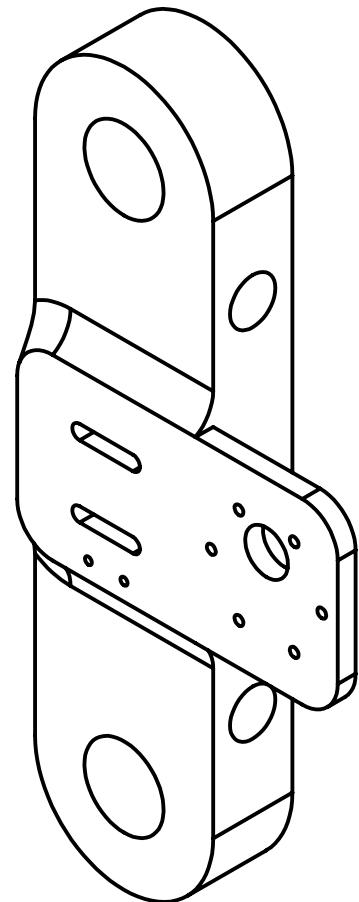
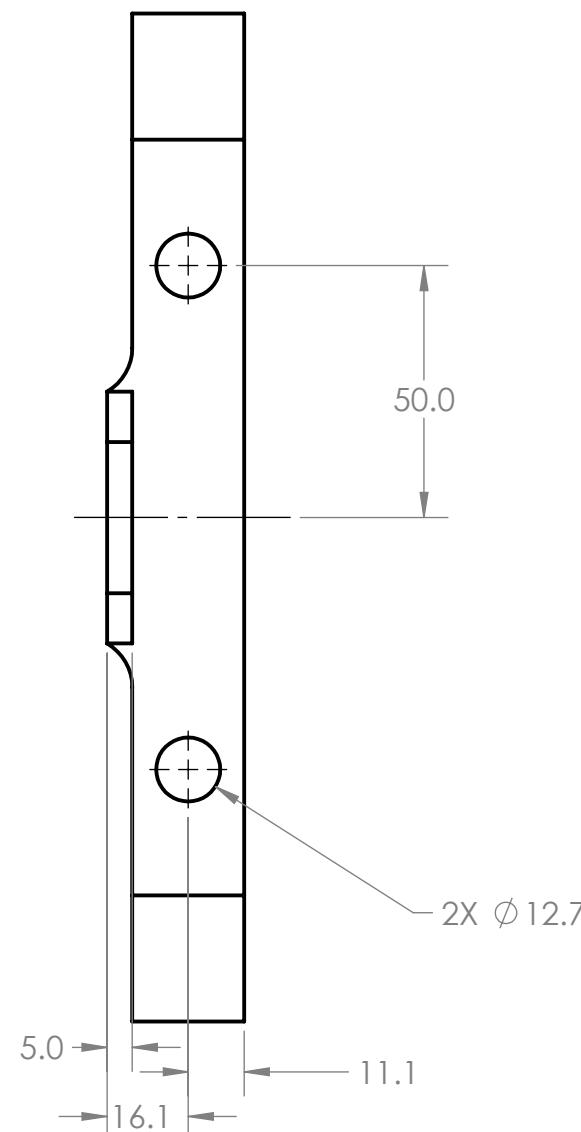
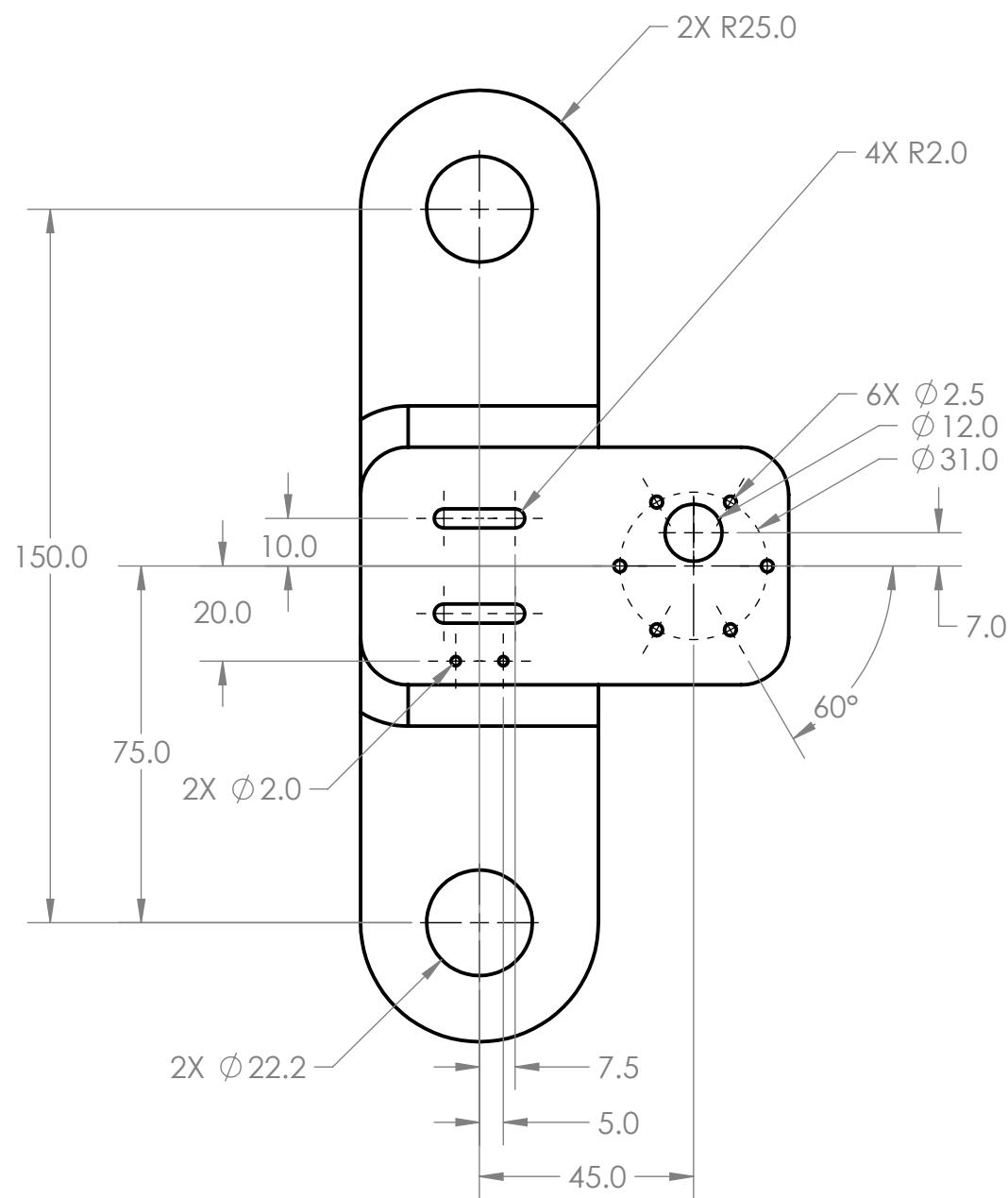
INTERPRET DRAWING  
PER ASME Y14.5 2009



DATE:  
2/4/2026

MATERIAL:  
PolyLite™ PLA Pro  
PART #:  
118000  
DRAWN BY:  
Antony Chen

TITLE:  
Bearing Arm Mount  
SHEET 1 OF 1  
SCALE: 1:2  
REV B  
SIZE B



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X,X= \pm 0.5$   
 $ANGLES= \pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
FAO

INTERPRET DRAWING  
PER ASME Y14.5 2009

 **CAL POLY**  
SAN LUIS OBISPO

MATERIAL: PolyLite™ PLA Pro | PART #: 119000 | TITLE: Bearing Mount

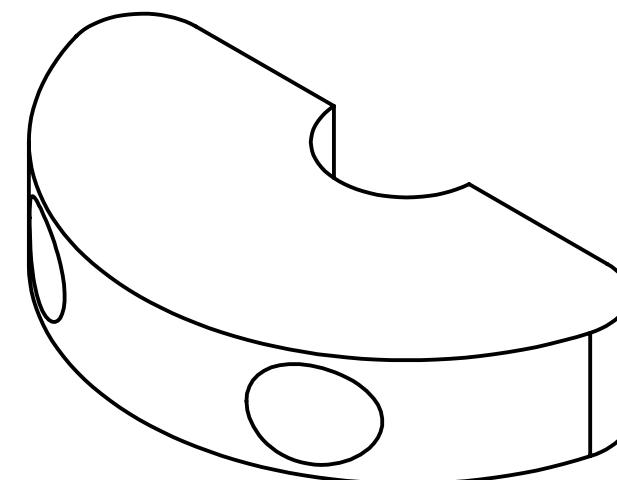
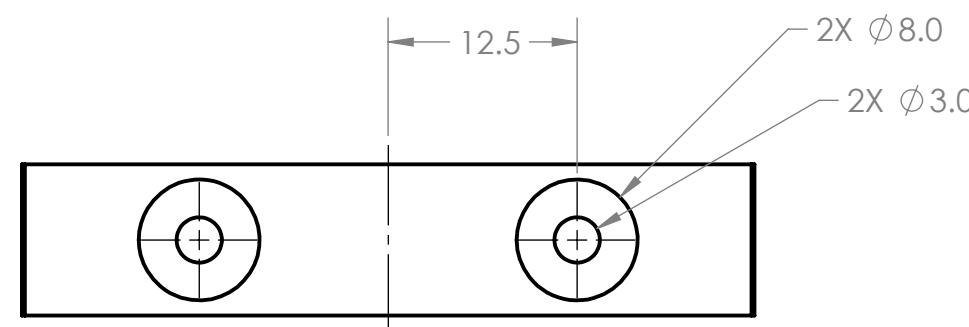
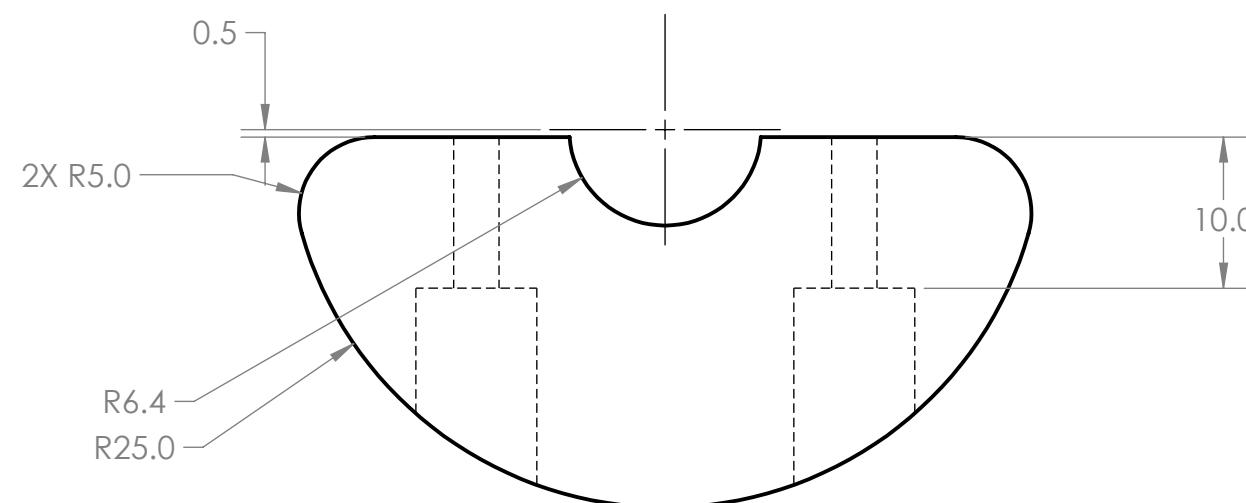
DATE: 2/4/2026

DRAWN BY: Antony Chen

SHEET 1 OF 1

SCALE: 2:3

REV B SIZE B



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X \pm 0.5$   
ANGLES  $\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\sqrt{FAO}$

INTERPRET DRAWING  
PER ASME Y14.5 2009

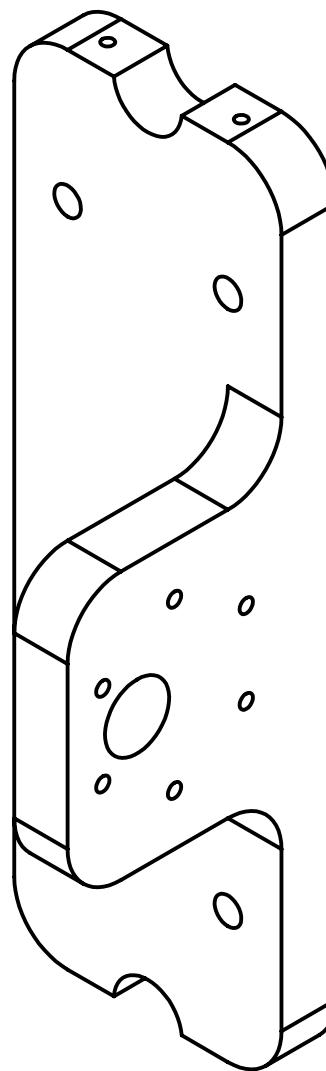
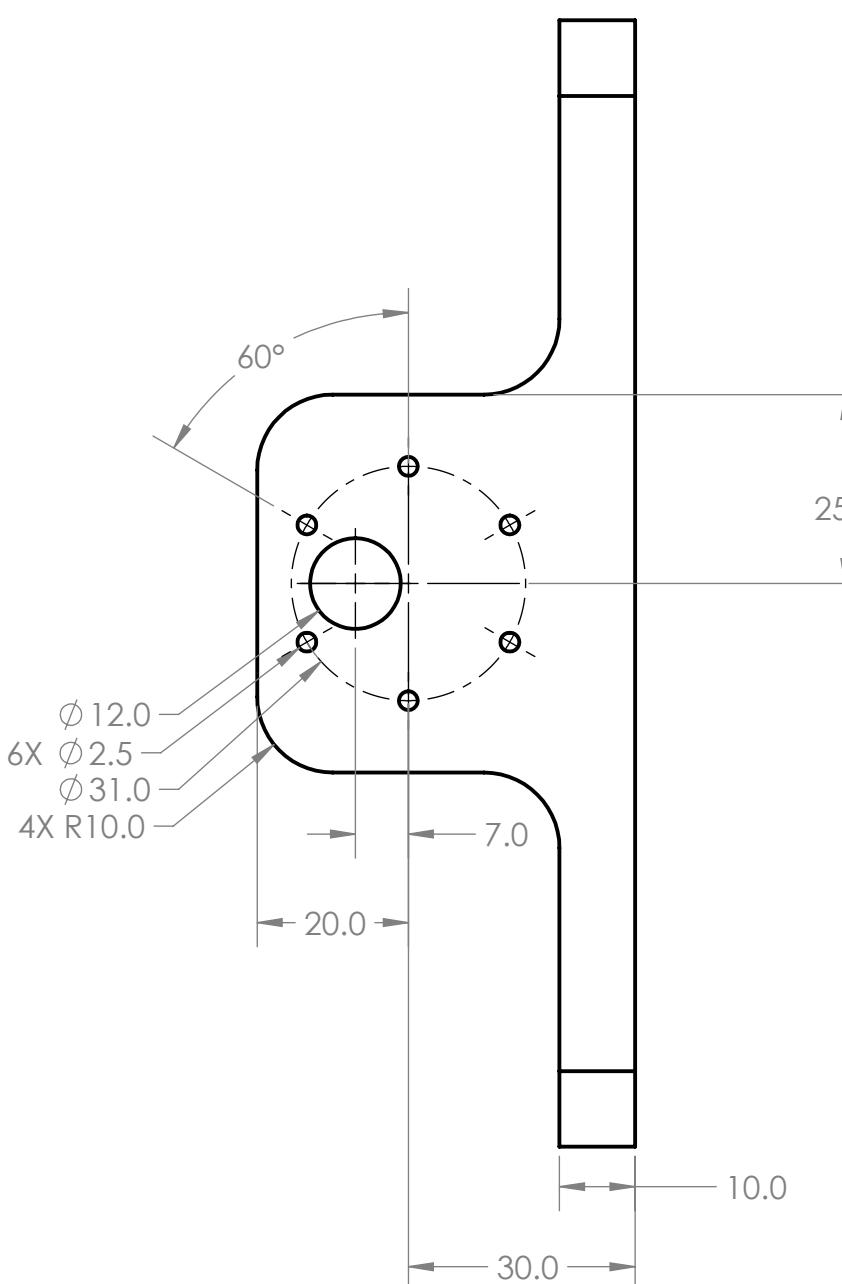
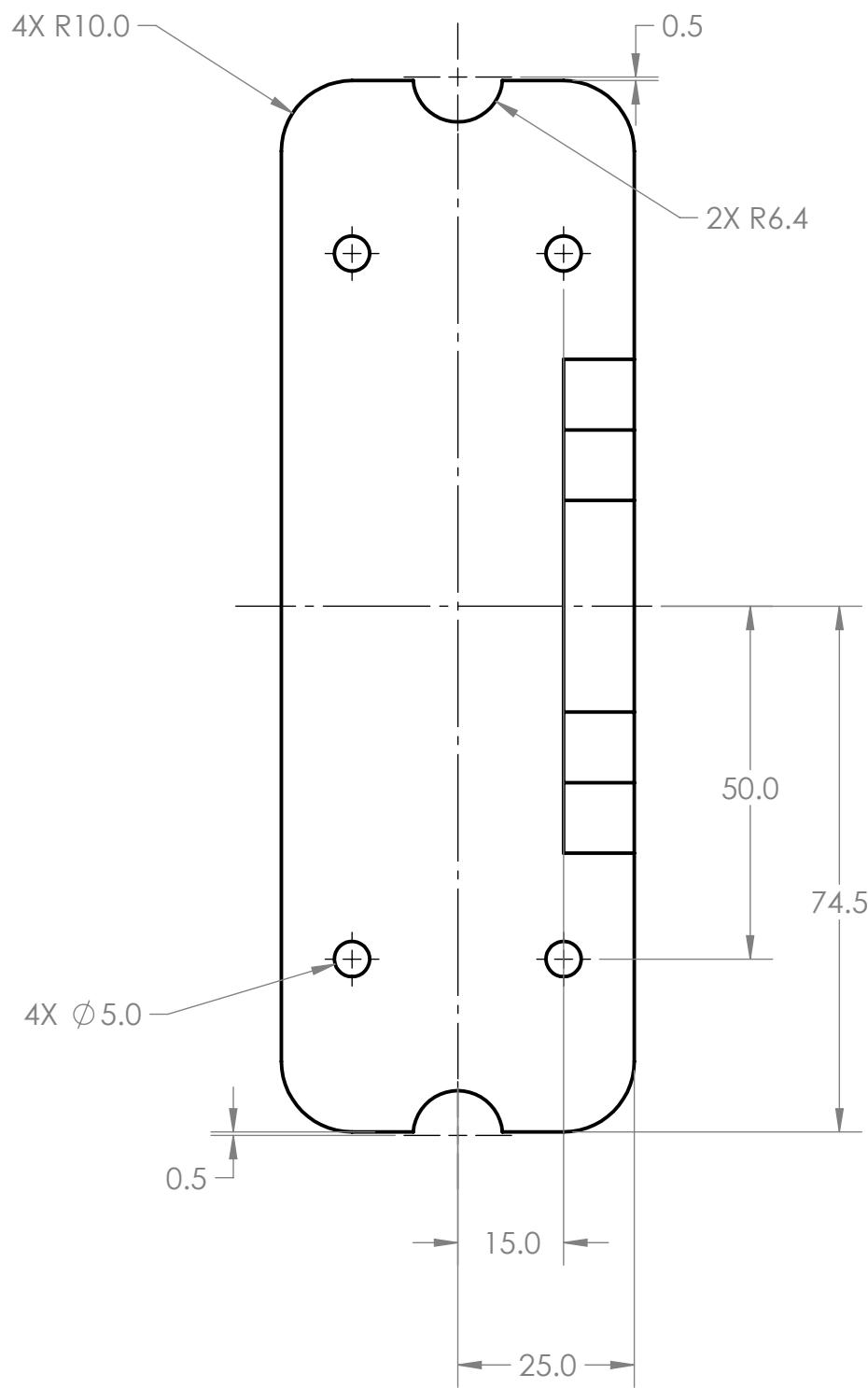


DATE:  
2/4/2026

MATERIAL:  
PolyLite™ PLA Pro  
DRAWN BY:  
Antony Chen

PART #:  
11A000

TITLE:  
Clamp  
SHEET 1 OF 1  
SCALE: 2:1  
REV B  
SIZE B



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X,X= \pm 0.5$   
ANGLES= $\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\sqrt{FAO}$

INTERPRET DRAWING  
PER ASME Y14.5 2009

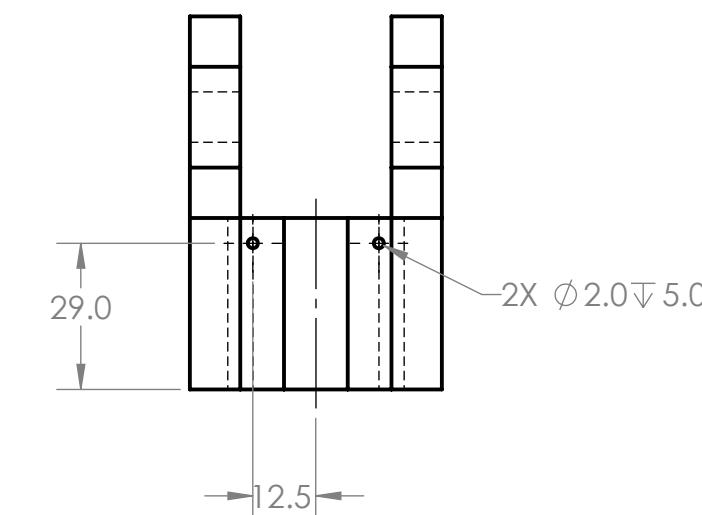
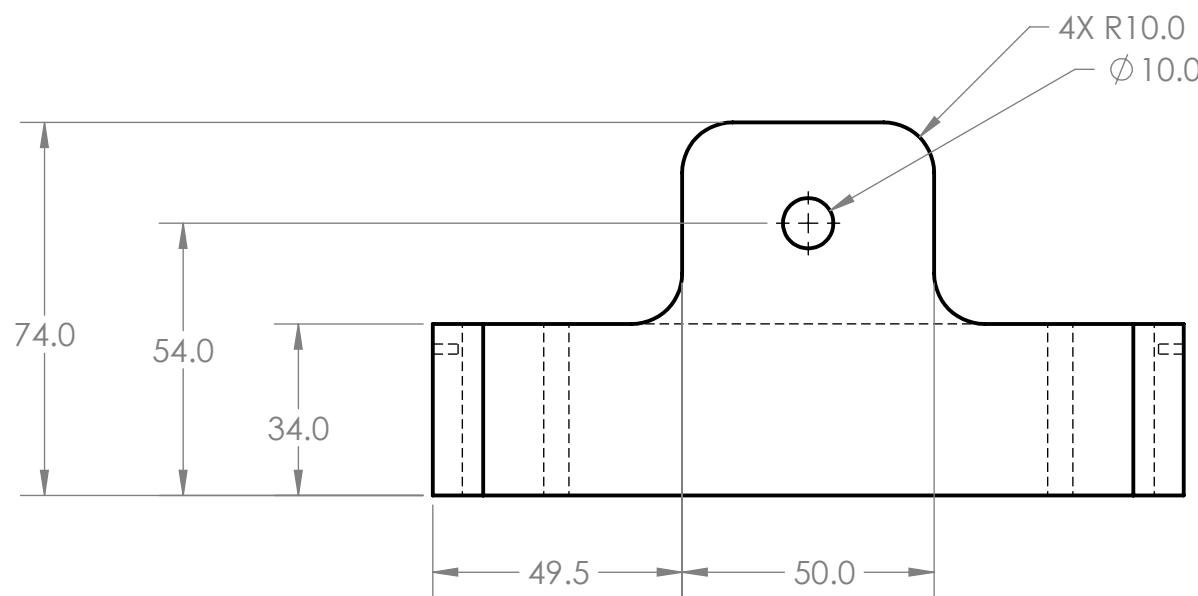
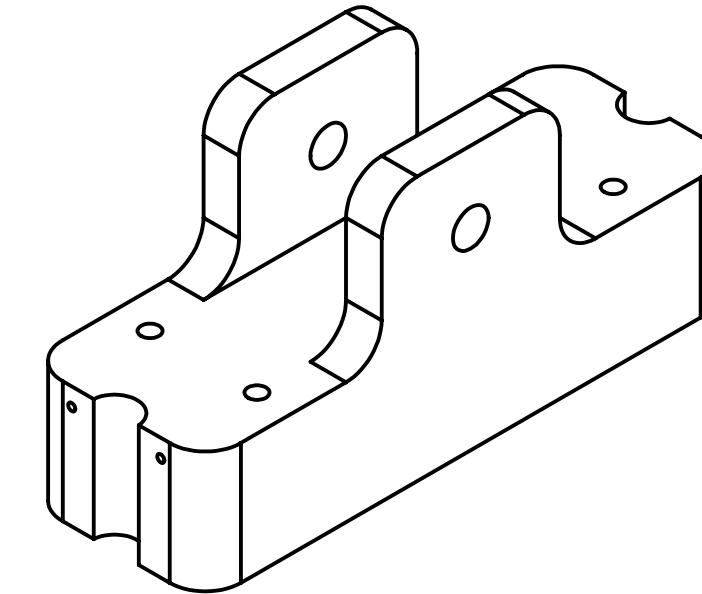
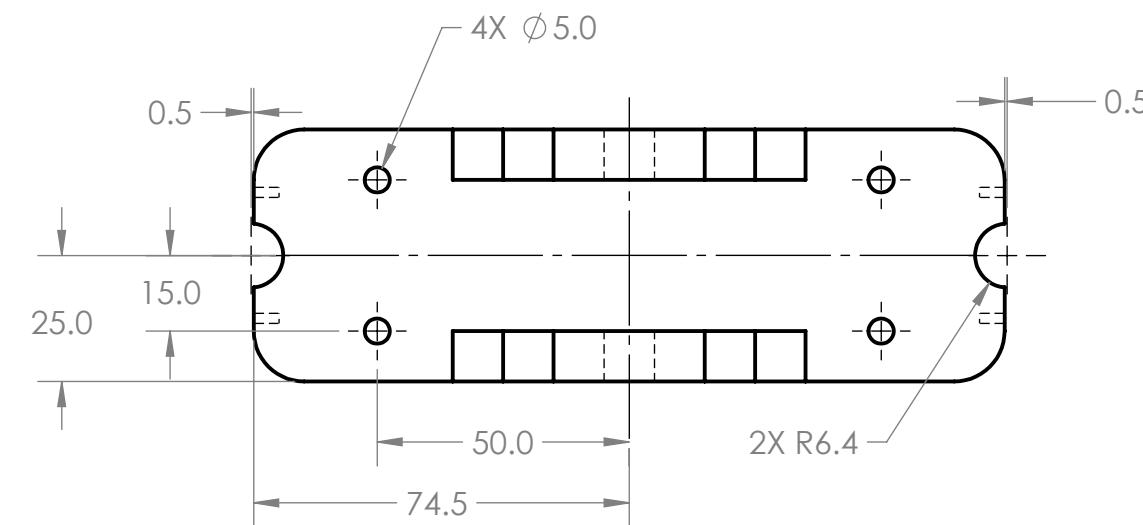


CAL POLY  
SAN LUIS OBISPO

DATE:  
2/4/2026

MATERIAL:  
PolyLite™ PLA Pro  
PART #:  
11B000  
DRAWN BY:  
Antony Chen

TITLE:  
Rails Bottom Mount  
SHEET 1 OF 1  
SCALE: 1:1  
REV B  
SIZE B



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X,X= \pm 0.5$   
ANGLES= $\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\sqrt{FAO}$

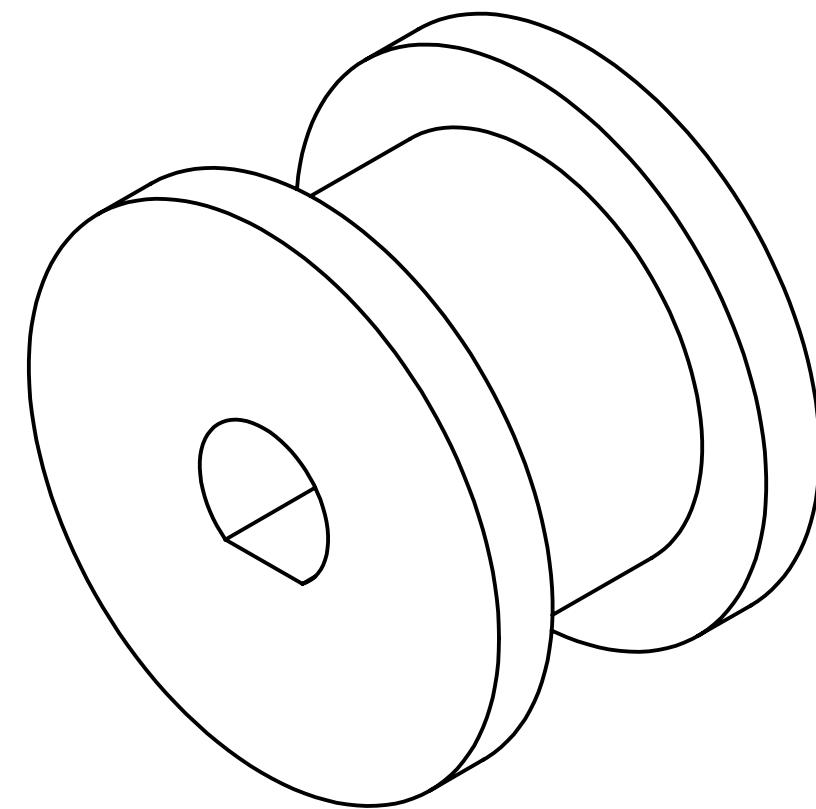
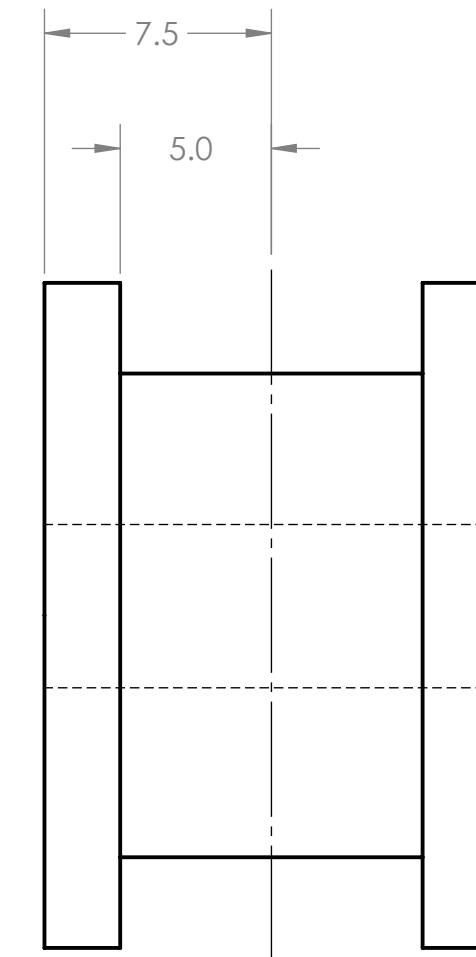
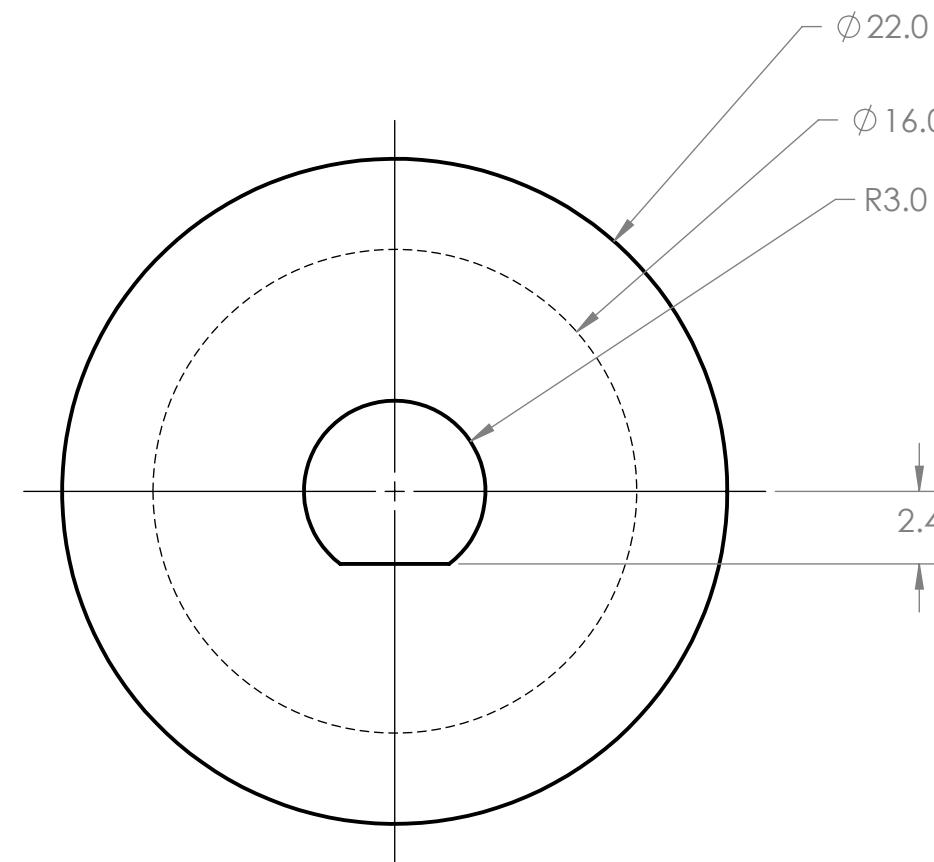
INTERPRET DRAWING  
PER ASME Y14.5 2009



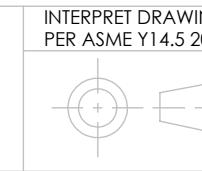
DATE:  
2/4/2026

MATERIAL:  
PolyLite™ PLA Pro  
PART #:  
11C000  
DRAWN BY:  
Antony Chen

TITLE:  
Rails Top Mount  
SHEET 1 OF 1  
SCALE: 2:3  
REV B  
SIZE B



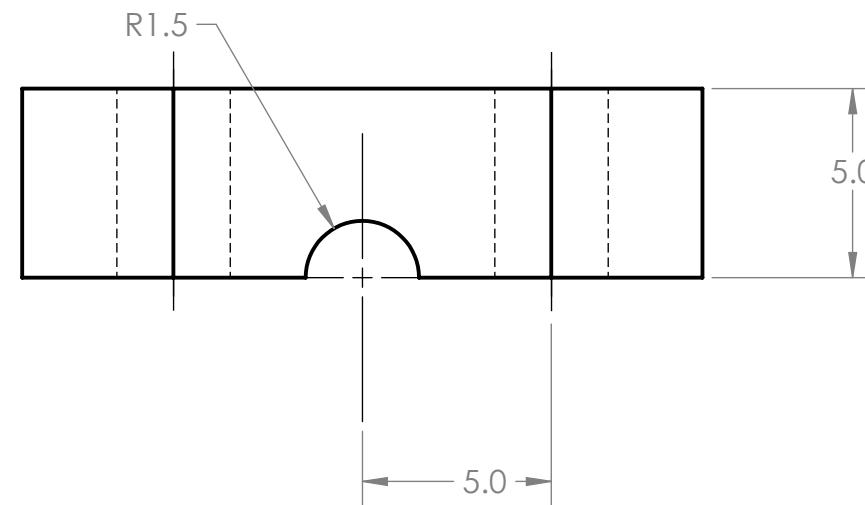
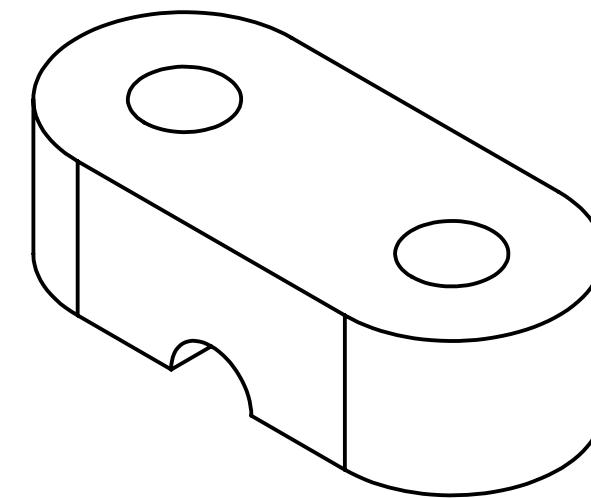
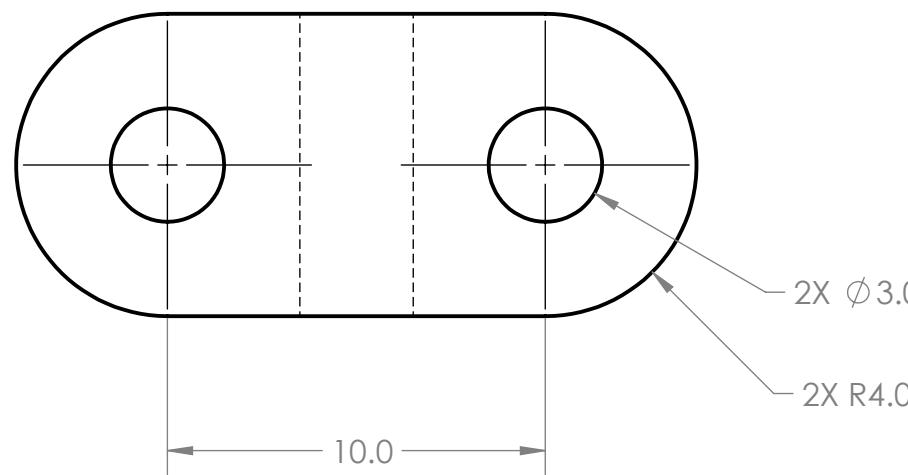
UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X \pm 0.5$   
 $\text{ANGLES} \pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\sqrt{\text{FAO}}$



DATE: 2/4/2026

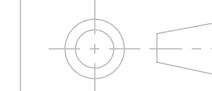
MATERIAL: PolyLite™ PLA Pro  
PART #: 11D000  
DRAWN BY: Antony Chen

TITLE: Spool  
SHEET 1 OF 1  
SCALE: 4:1  
REV B SIZE B



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X \pm 0.5$   
ANGLES  $\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\checkmark_{FAO}$

INTERPRET DRAWING  
PER ASME Y14.5 2009



DATE:  
2/4/2026

MATERIAL:  
PolyLite™ PLA Pro  
DRAWN BY:  
Antony Chen

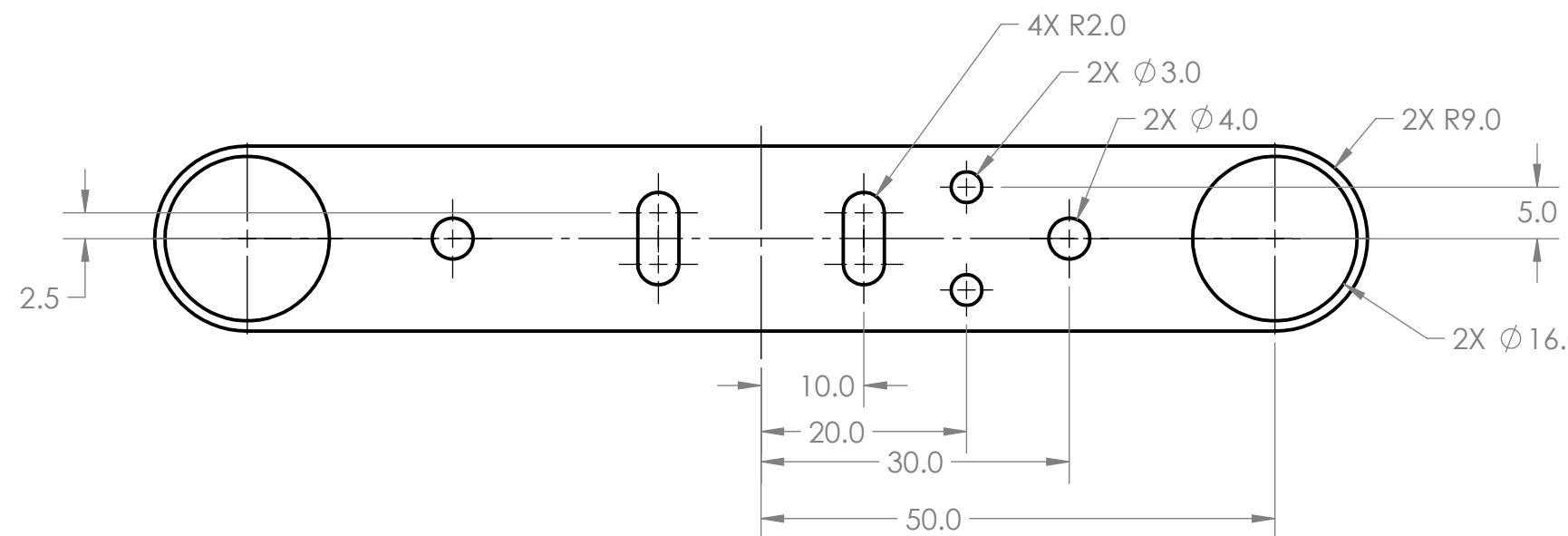
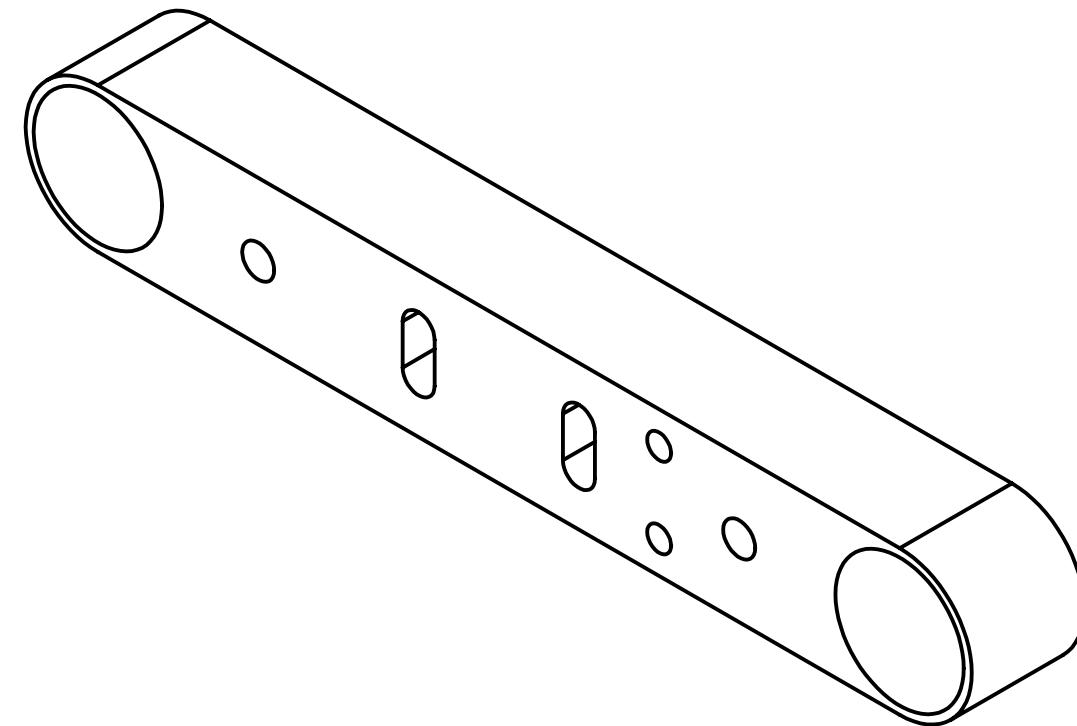
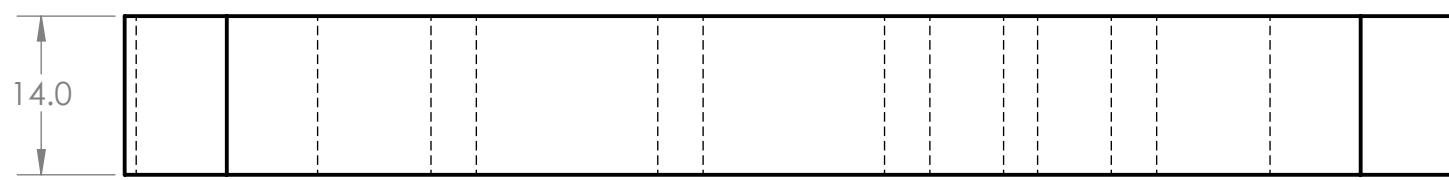
PART #:  
11E000

TITLE:  
String Clamp

SHEET 1 OF 1

SCALE: 5:1

REV B  
SIZE B



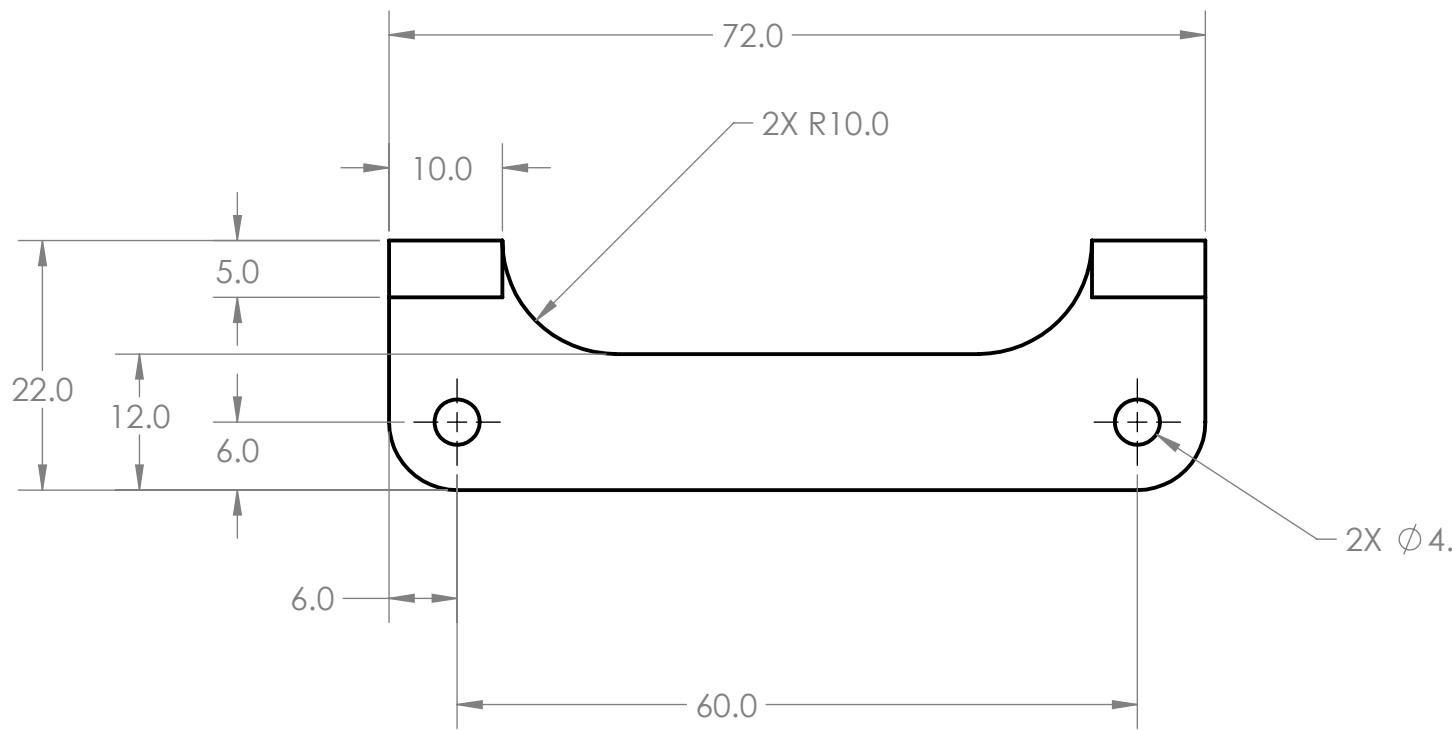
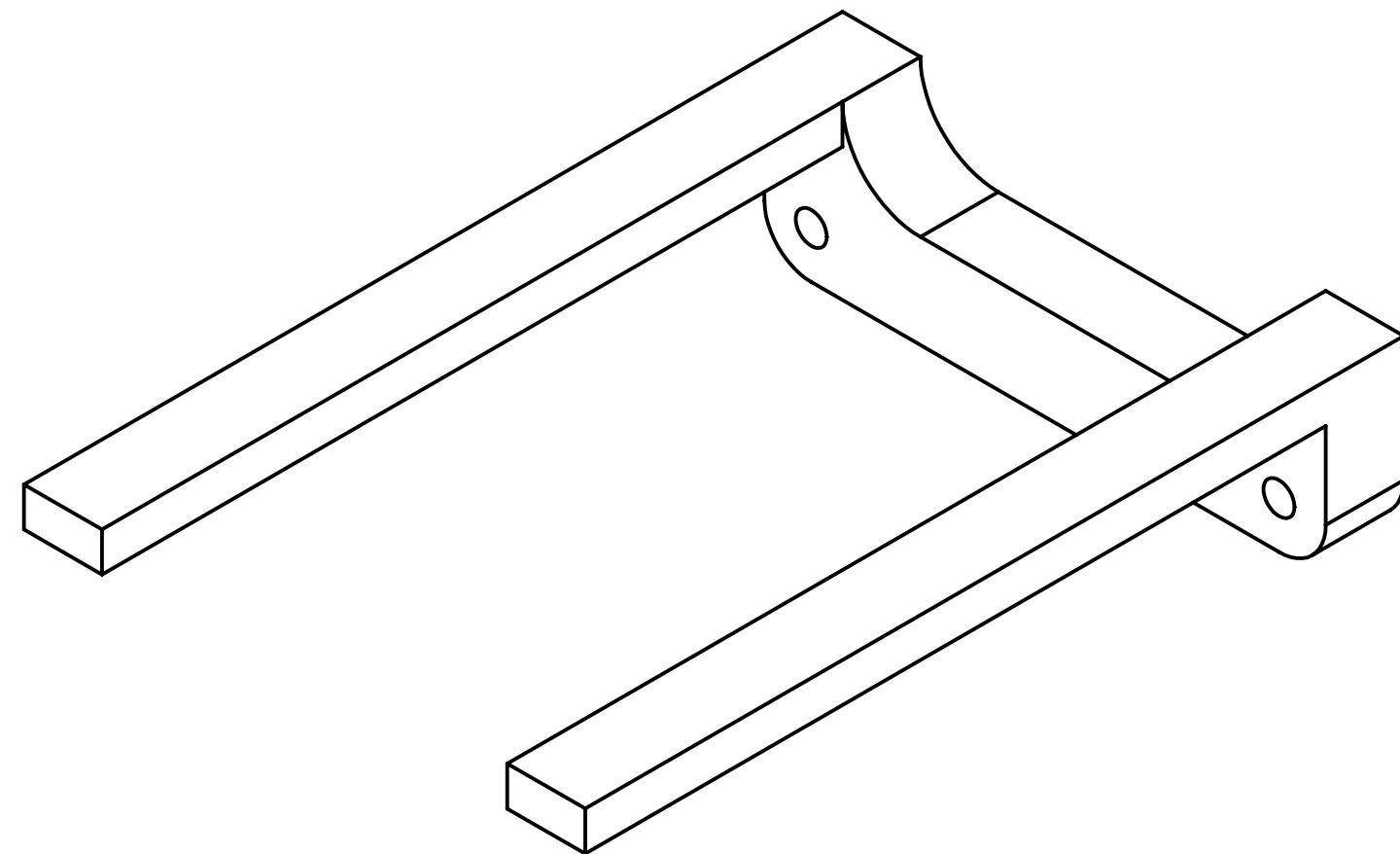
UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X \pm 0.5$   
ANGLES  $\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
FAO

INTERPRET DRAWING  
PER ASME Y14.5 2009

 **CAL POLY**  
SAN LUIS OBISPO

MATERIAL: PolyLite™ PLA Pro | PART #: 11F000 | TITLE: Stage 2nd Telescopic  
DATE: 2/4/2026 | DRAWN BY: Antony Chen

SHEET 1 OF 1	SCALE: 3:2	REV B	SIZE B
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UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X,X= \pm 0.5$   
 $ANGLES= \pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
FAO

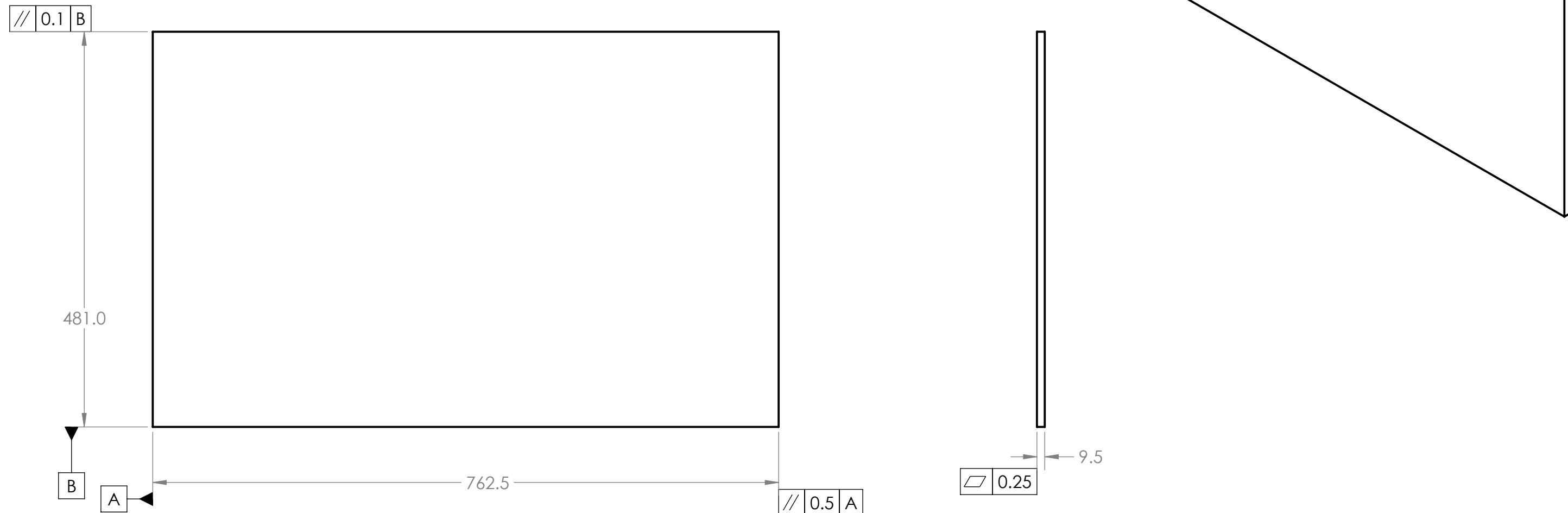
INTERPRET DRAWING  
PER ASME Y14.5 2009



DATE:  
2/4/2026

MATERIAL:  
PolyLite™ PLA Pro  
PART #: 11G000  
DRAWN BY:  
Antony Chen

TITLE:  
Stage Telescopic Top  
SHEET 1 OF 1  
SCALE: 3:2  
REV B SIZE B



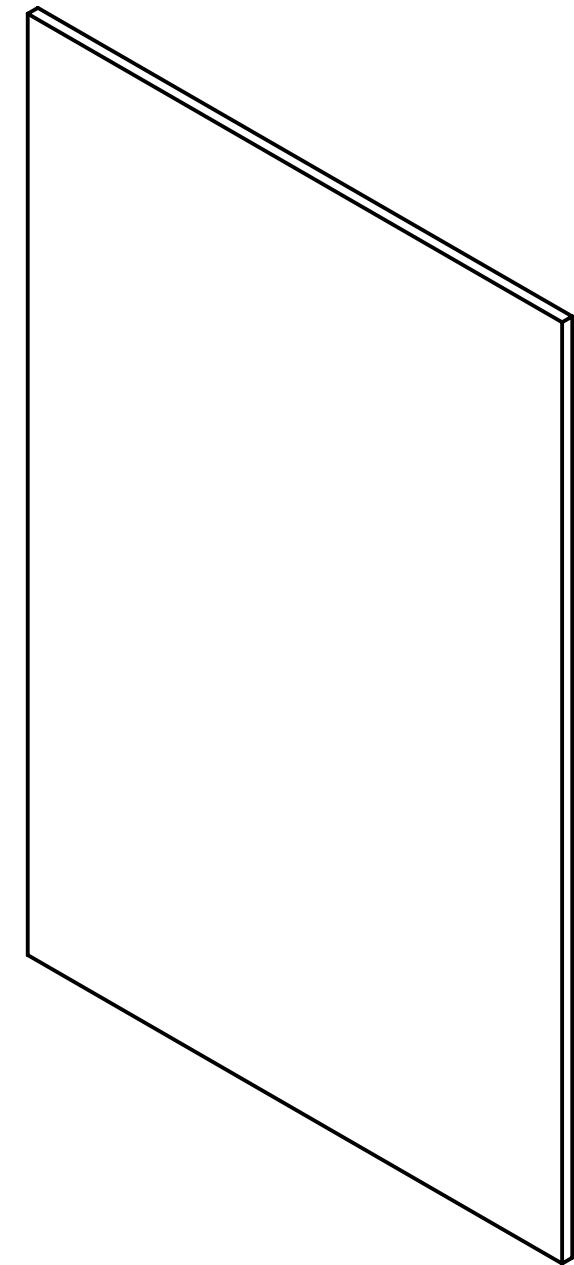
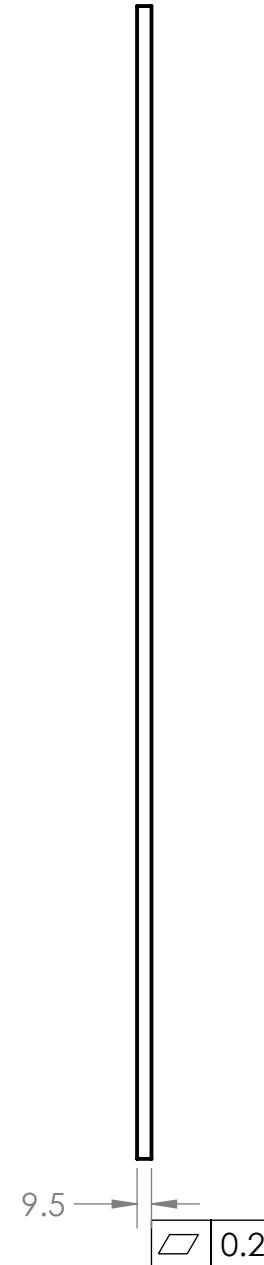
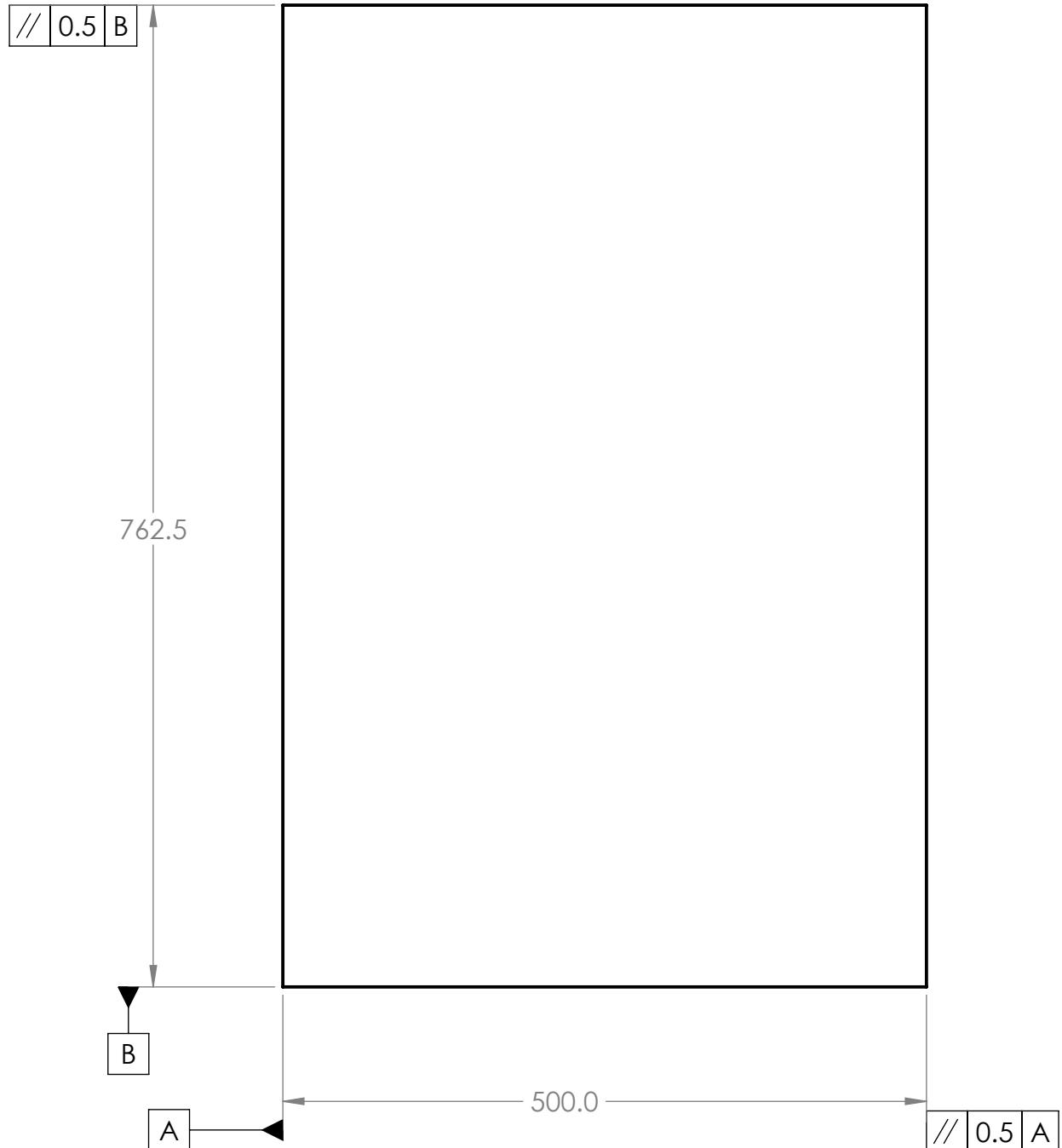
UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X \pm 0.5$   
 $\text{ANGLES} \pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
FAO

INTERPRET DRAWING  
PER ASME Y14.5 2009



DATE:  
2/4/2026

MATERIAL:	PART #:	TITLE:			
Plywood	120000	Body Wall			
DRAWN BY:		SHEET 1 OF 1	SCALE: 1:5	REV	SIZE
Antony Chen				B	B

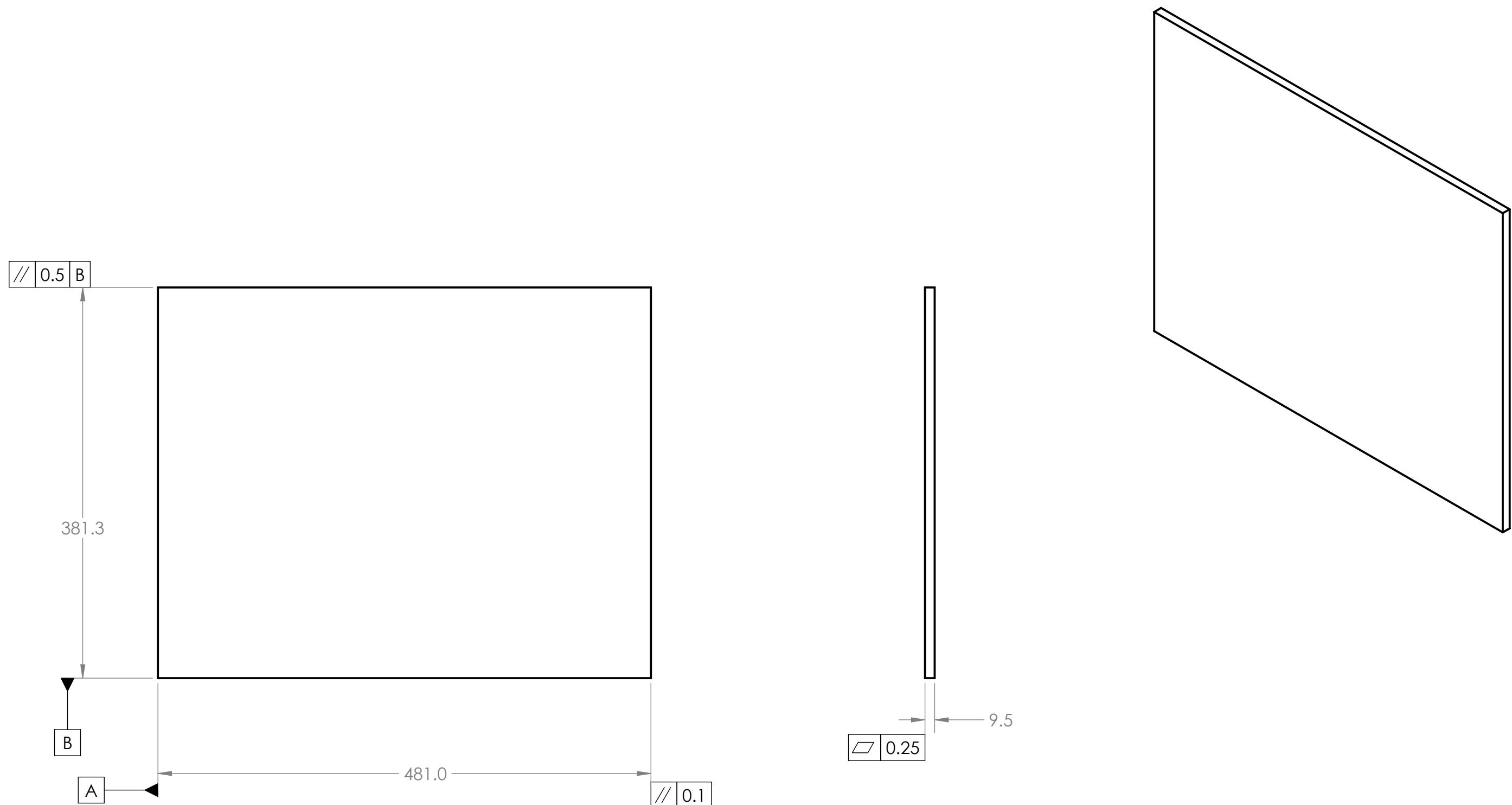


UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X,X= \pm 0.5$   
ANGLES=  $\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\sqrt{FAO}$

INTERPRET DRAWING  
PER ASME Y14.5 2009

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

MATERIAL: Plywood	PART #: 130000	TITLE: Body Plate
DRAWN BY: Antony Chen	SHEET 1 OF 1	SCALE: 1:5
REV B	SIZE B	



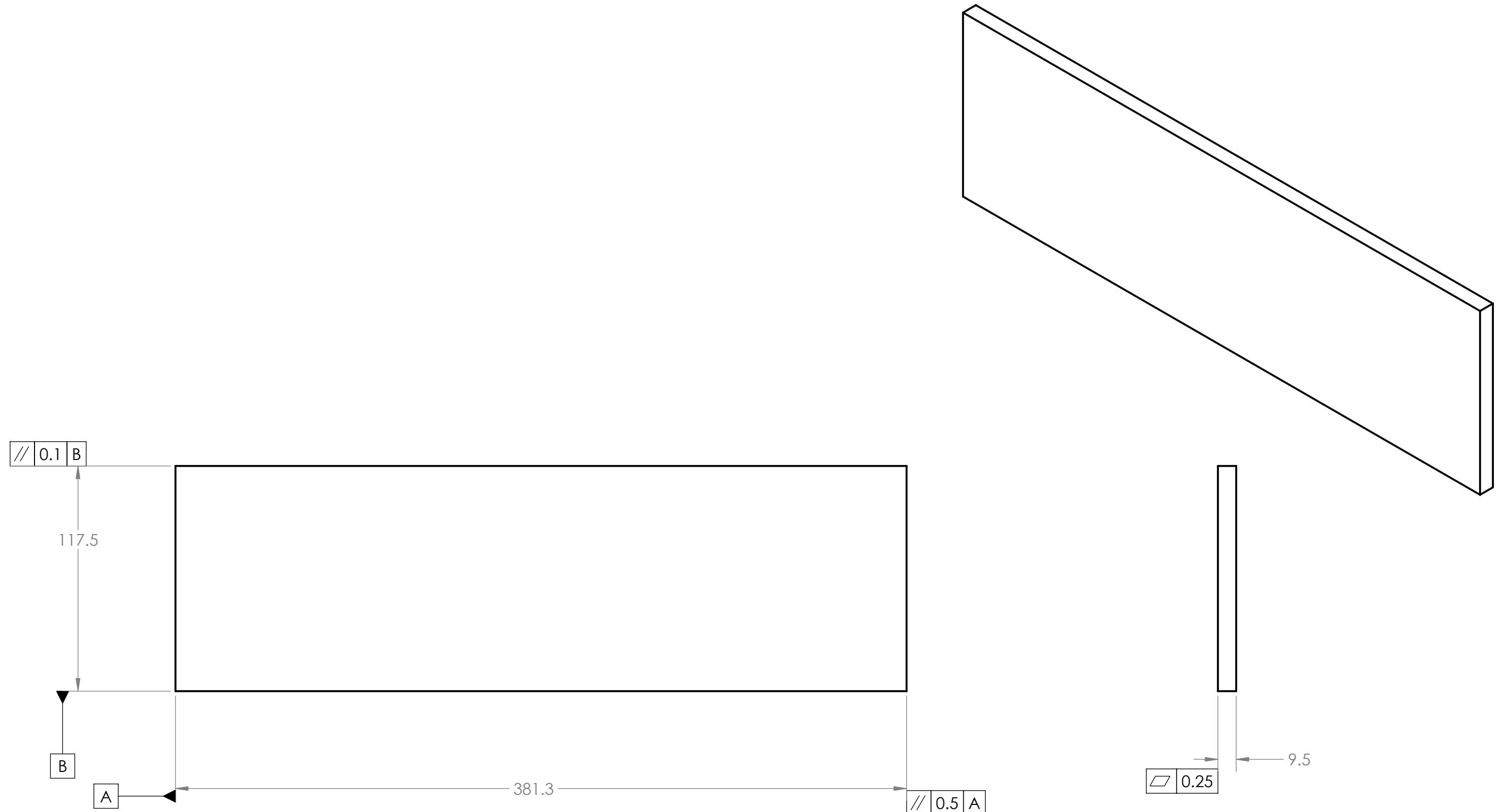
UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X \pm 0.5$   
ANGLES  $\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
FAO

INTERPRET DRAWING  
PER ASME Y14.5 2009



DATE:  
2/4/2026

MATERIAL:	PART #:	TITLE:			
Plywood	140000	shelf plate			
DRAWN BY:		SHEET 1 OF 1	SCALE: 1:4	REV	SIZE
Antony Chen				B	B



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
 $X.X=\pm 0.5$   
 $\text{ANGLES}=\pm 1^\circ$   
INSIDE TOOL RADIUS 0.5 MAX  
BREAK SHARP EDGES 0.1 MAX  
 $\checkmark_{\text{FAO}}$

INTERPRET DRAWING  
PER ASME Y14.5 2009

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

MATERIAL: Plywood	PART #: 150000	TITLE: shelf wall
DRAWN BY: Antony Chen	SHEET 1 OF 1	SCALE: 1:2
REV B	SIZE B	