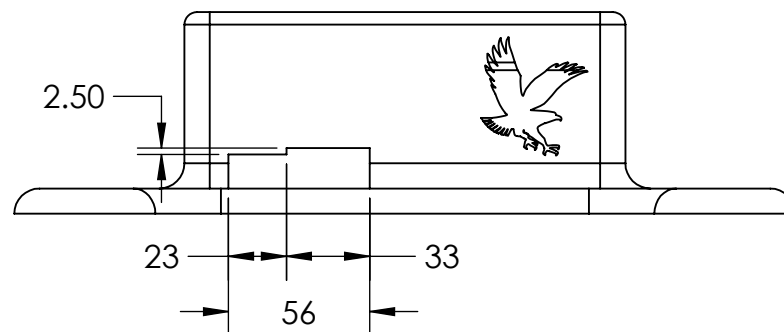
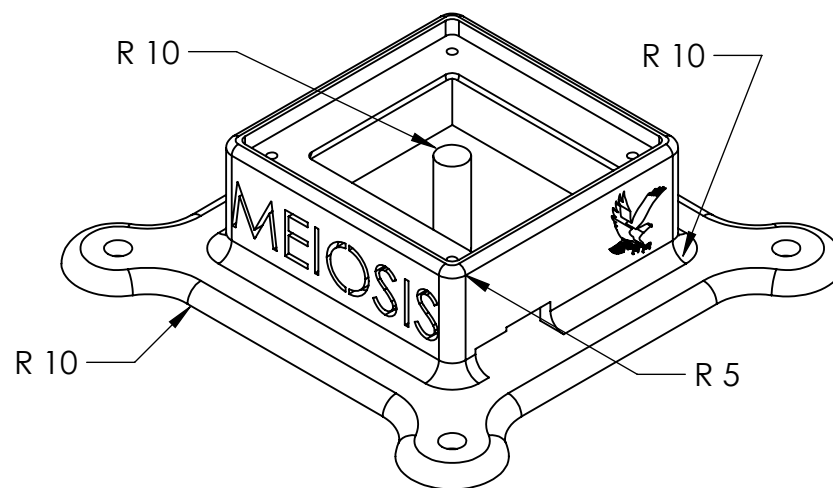


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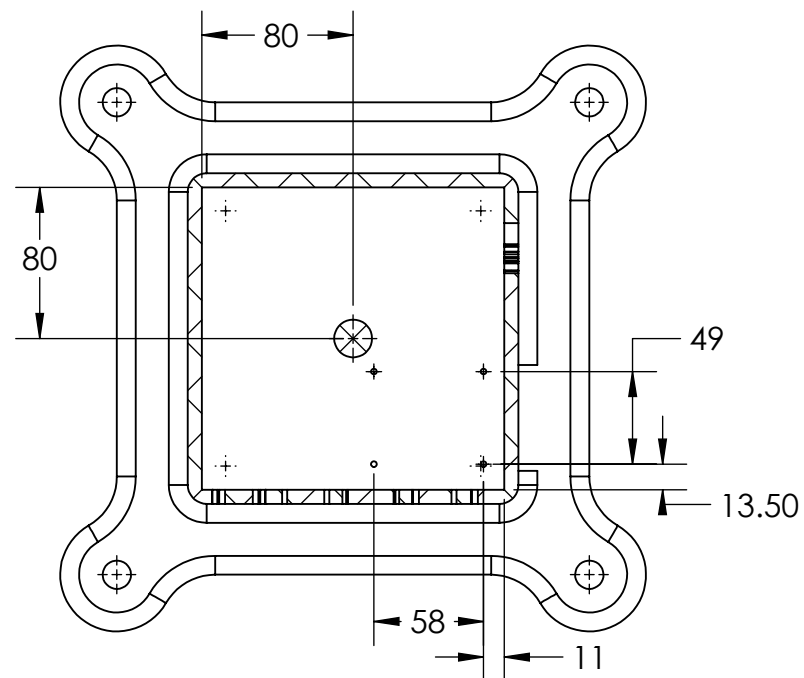


A

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Base Bottom		
DIMENSIONS ARE IN MILLIMETERS	DRAWN	Ryan W.	11/13/2019			
TOLERANCES: ±3.0	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE A	DWG. NO.	REV 1.0
MATERIAL PLA, 30% Infill	COMMENTS:					
FINISH N/A						
DO NOT SCALE DRAWING				SCALE: 1:5	WEIGHT:	SHEET 1 OF 13

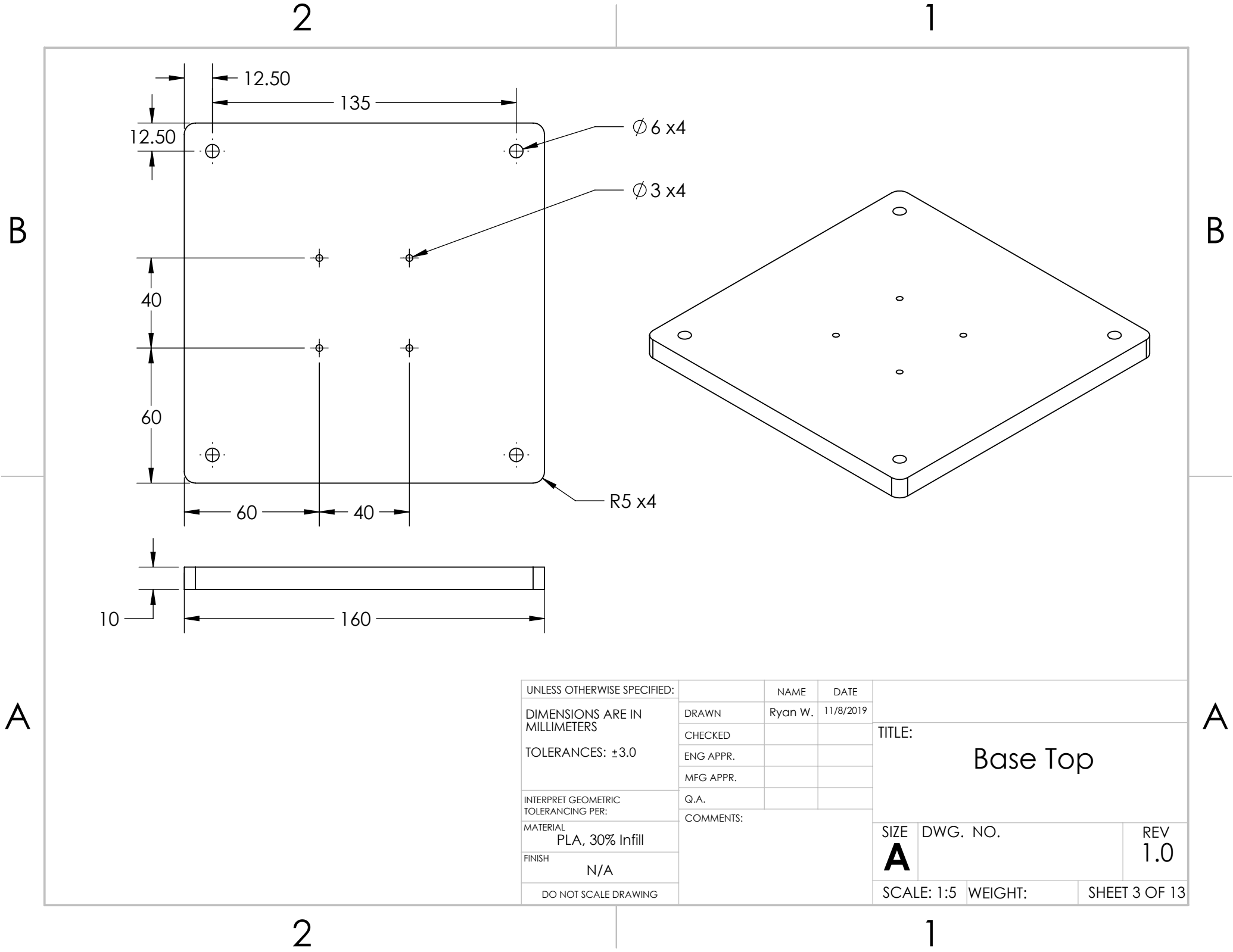
1

1



SHEET 2 OF 13

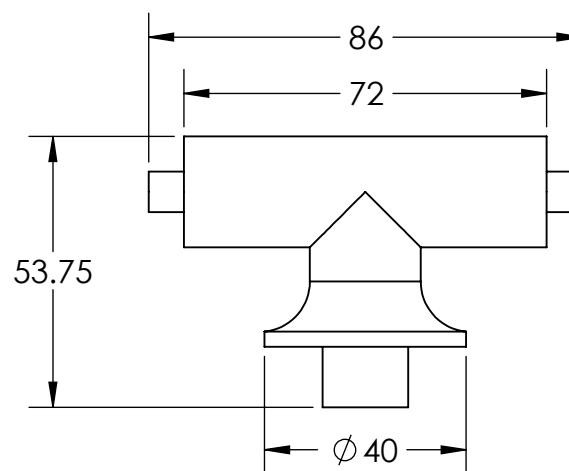
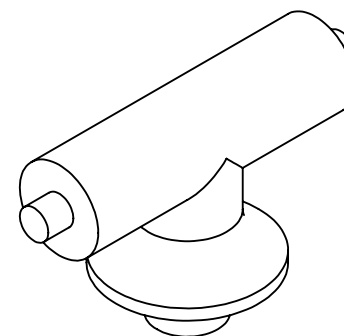
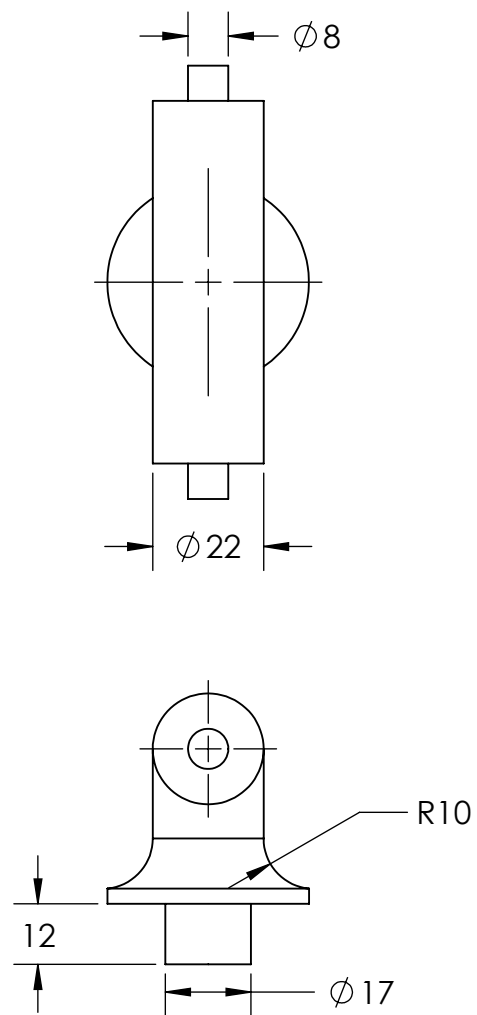
1



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Base Top			
DIMENSIONS ARE IN MILLIMETERS TOLERANCES: ±3.0		DRAWN	Ryan W.				11/8/2019
		CHECKED					
		ENG APPR.					
		MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.		SIZE A			
MATERIAL PLA, 30% Infill		COMMENTS:					
FINISH N/A							
DO NOT SCALE DRAWING							
				DWG. NO.	REV 1.0		
				SCALE: 1:5	WEIGHT:	SHEET 3 OF 13	

B

B



A

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Shoulder Differential T-Bar		
DIMENSIONS ARE IN MILLIMETERS	DRAWN	Ryan W.	11/8/2019			
TOLERANCES: ±3.0	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE A DWG. NO. REV 1.0		
MATERIAL PLA, 30% Infill	COMMENTS:					
FINISH N/A						
DO NOT SCALE DRAWING						
				SCALE: 1:2	WEIGHT:	SHEET 4 OF 13

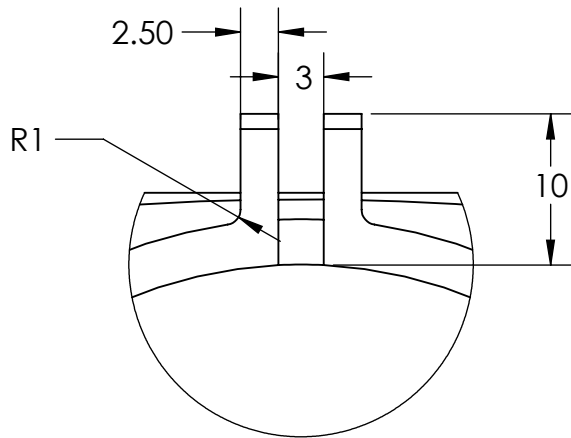
A

2

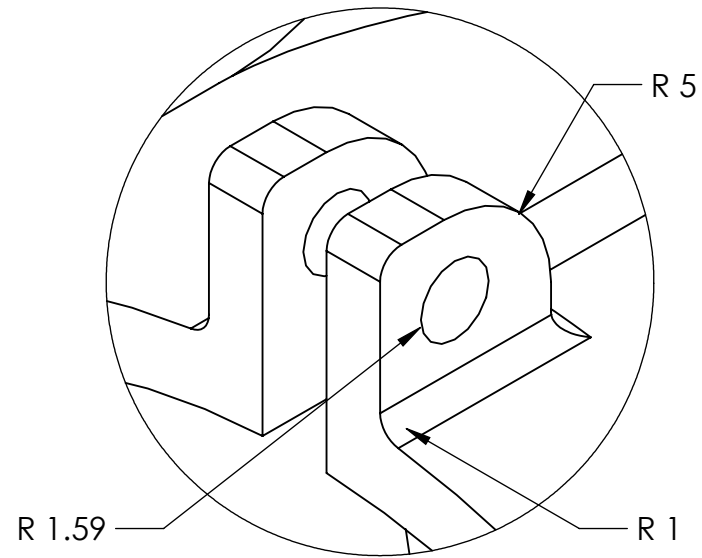
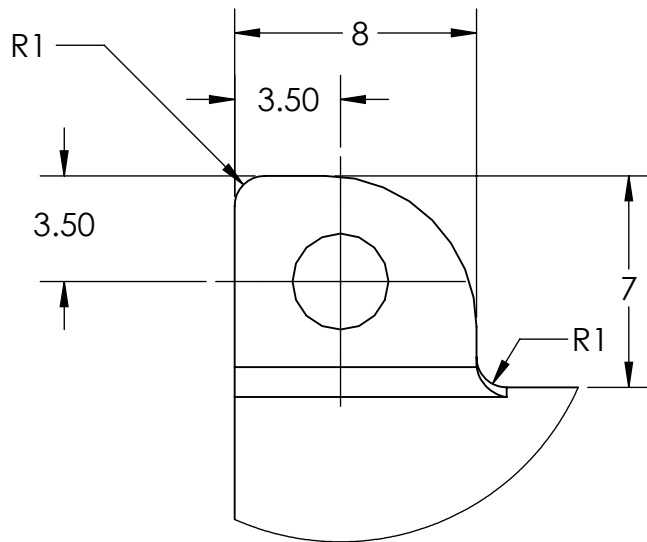
1

B

B



SCALE 2:1



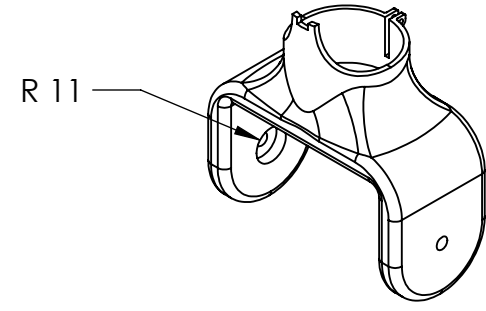
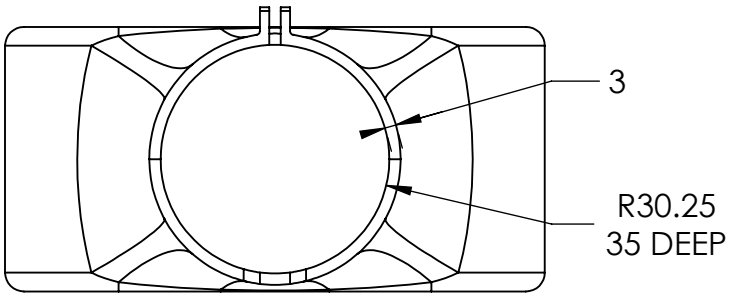
A

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: CLAMP DESIGN			
DIMENSIONS ARE IN MILLIMETERS		DRAWN	Ryan W.				11/20/2019
TOLERANCES: ±3.0		CHECKED					
INTERPRET GEOMETRIC TOLERANCING PER:		ENG APPR.					
MATERIAL		MFG APPR.					
FINISH		Q.A.			SIZE DWG. NO. REV A 1.0		
DO NOT SCALE DRAWING		COMMENTS: THIS DRAWING SHOWS THE CLAMPING MECHANISM TO BE USED FOR LINK 2_A, LINK 2_B, LINK 3_A, AND LINK 3_B.					
					SCALE: 4:1 WEIGHT: SHEET 5 OF 13		

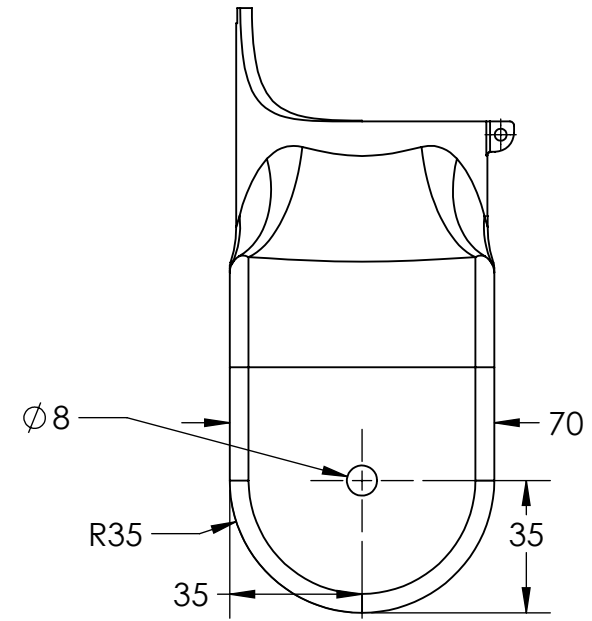
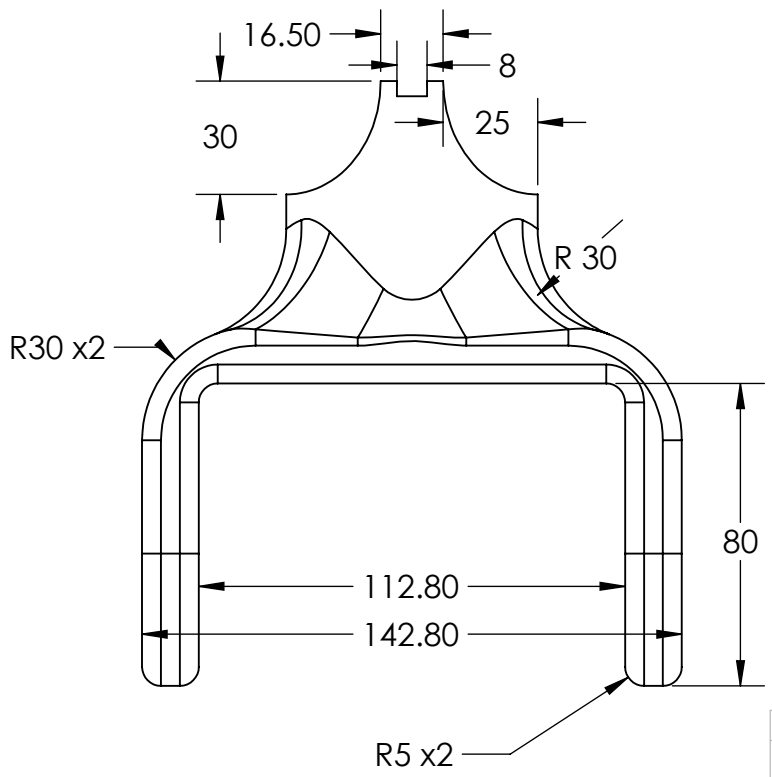
A

2

1



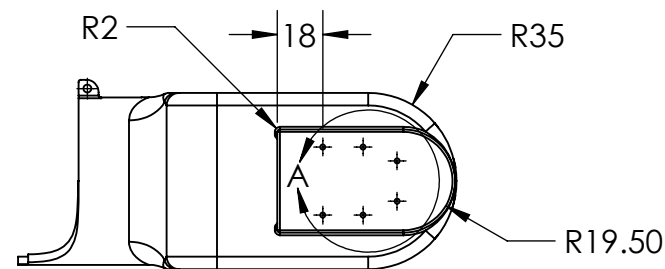
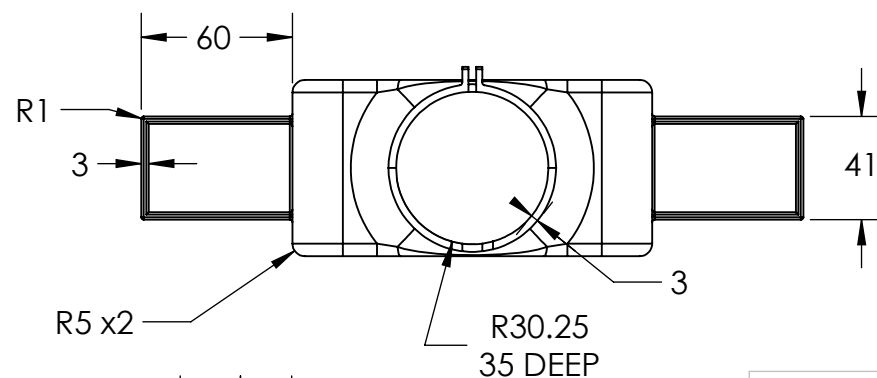
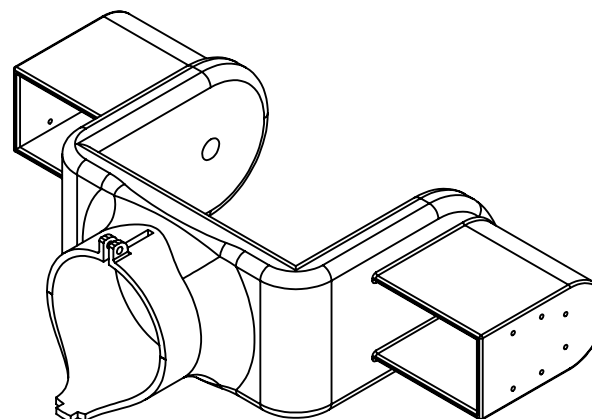
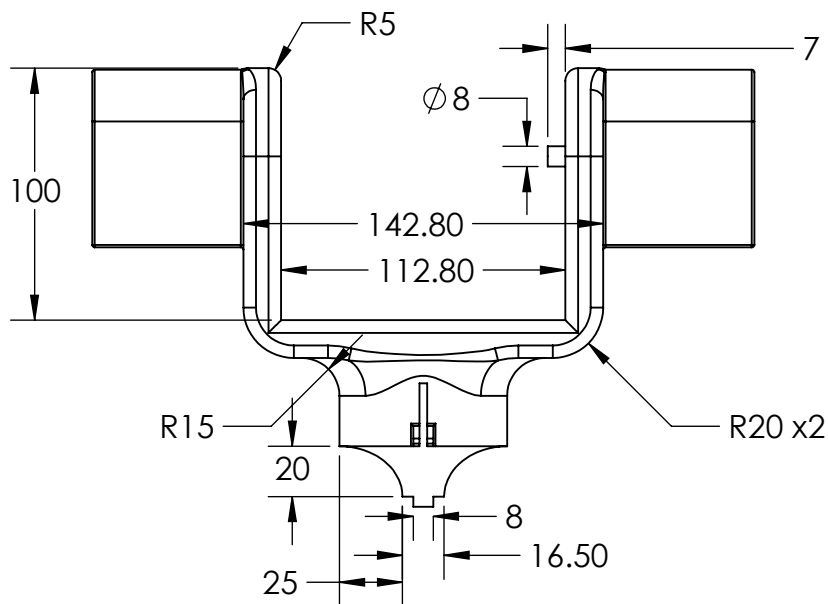
SCALE 1:4



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Link 2_a	
DIMENSIONS ARE IN MILLIMETERS		DRAWN	Ryan W.		
TOLERANCES: ± 3.0		CHECKED			
INTERPRET GEOMETRIC TOLERANCING PER:		ENG APPR.			
MATERIAL PLA, 30% Infill		MFG APPR.			
FINISH N/A		Q.A.		REV 1.0	
DO NOT SCALE DRAWING		COMMENTS:		SIZE A	DWG. NO.
				SCALE: 1:2	WEIGHT:
				SHEET 6 OF 13	

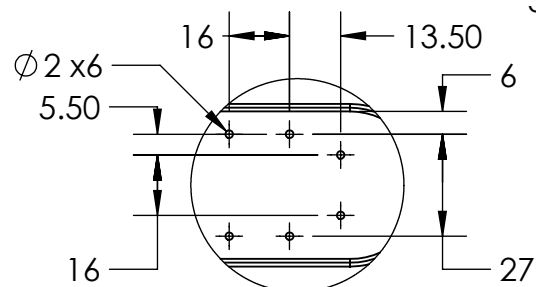
B

B



A

A



DETAIL A
SCALE 1 : 2

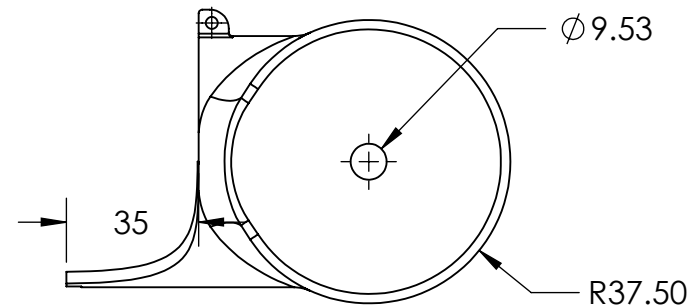
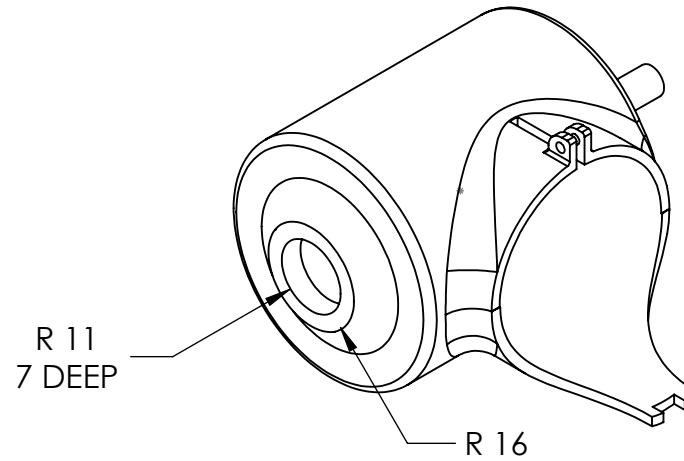
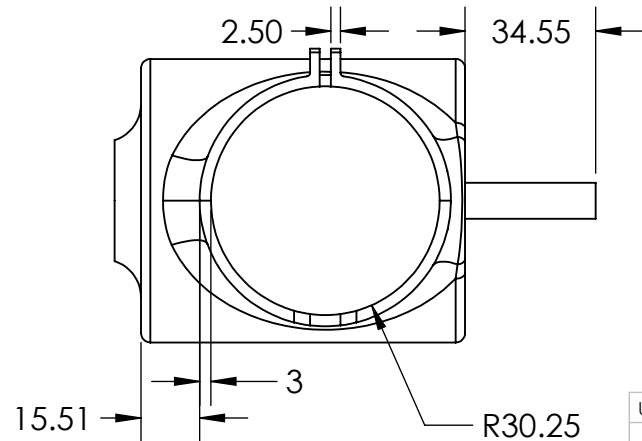
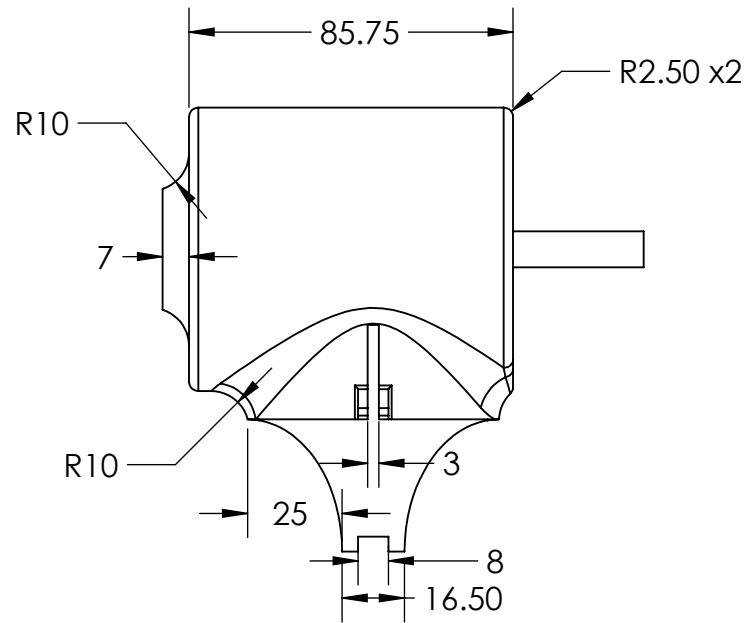
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Link 2_b		
DIMENSIONS ARE IN MILLIMETERS TOLERANCES: ±3.0	DRAWN	Ryan W.	11/13/2019			
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE A DWG. NO. REV 1.0		
MATERIAL PLA, 30% Infill	COMMENTS:					
FINISH N/A						
DO NOT SCALE DRAWING						
				SCALE: 1:3	WEIGHT:	SHEET 7 OF 13

2

1

B

B



A

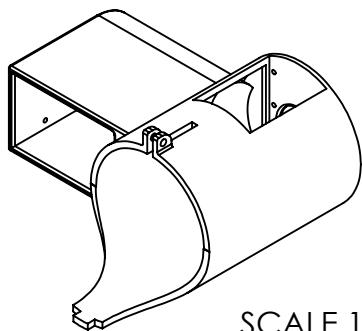
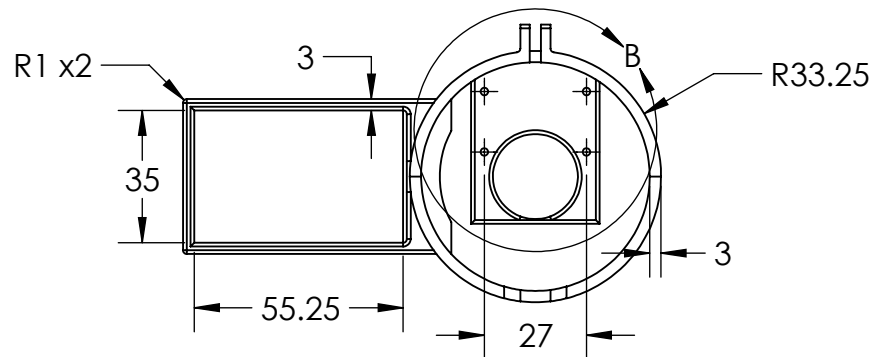
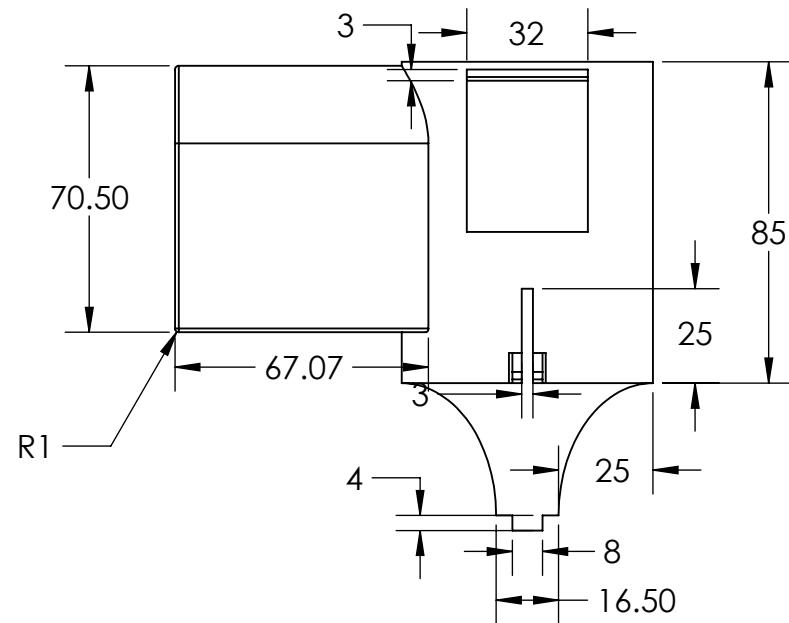
A

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Link 3_a		
DIMENSIONS ARE IN MILLIMETERS TOLERANCES: ±3.0	DRAWN	Ryan W.	11/11/2019			
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE A		
MATERIAL PLA, 30% Infill	COMMENTS:					
FINISH N/A				DWG. NO.		REV 1.0
DO NOT SCALE DRAWING				SCALE: 1:2	WEIGHT:	SHEET 8 OF 13

2

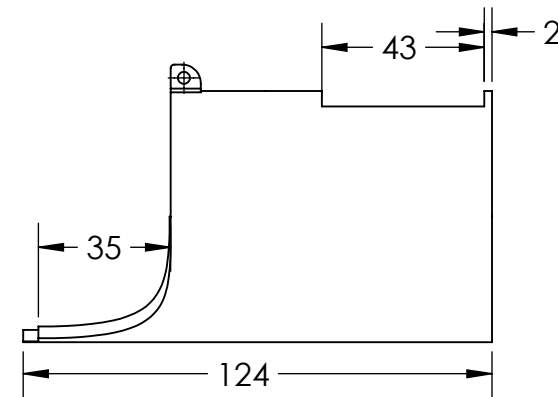
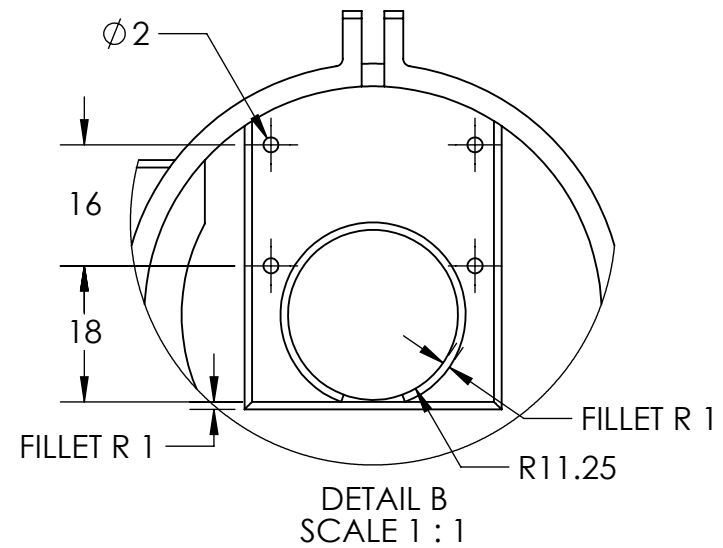
1

B



SCALE 1:3

1



B

A

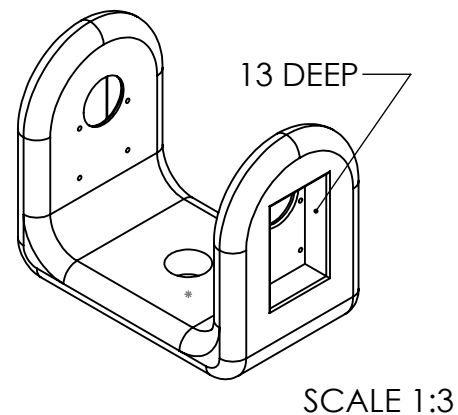
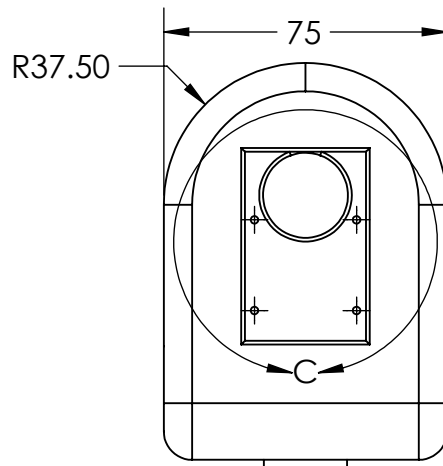
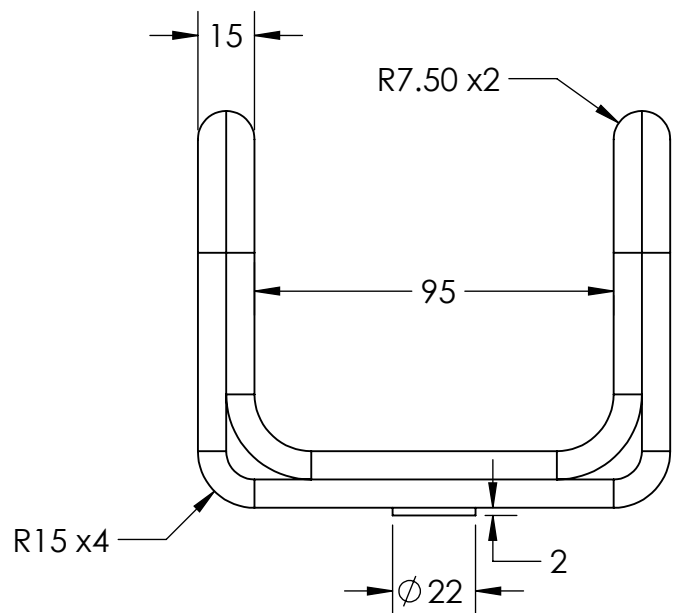
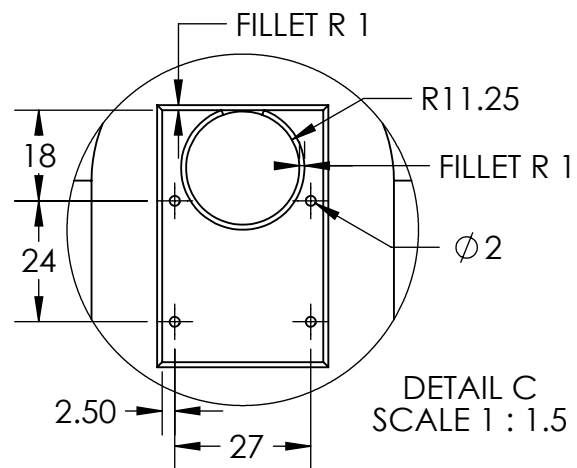
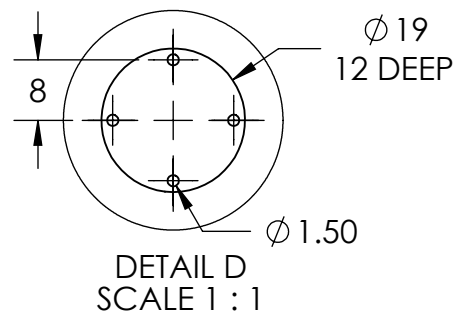
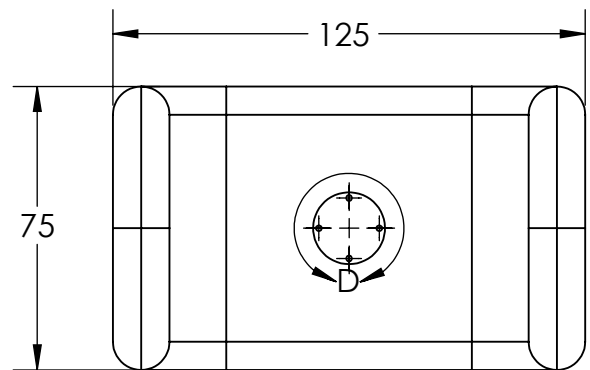
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Link 3_b	
DIMENSIONS ARE IN MILLIMETERS		DRAWN	Ryan W.		
TOLERANCES: ± 3.0		CHECKED			
INTERPRET GEOMETRIC TOLERANCING PER:		ENG APPR.			
MATERIAL PLA, 30% Infill		MFG APPR.			
FINISH N/A		Q.A.		SIZE A	
DO NOT SCALE DRAWING		COMMENTS:		DWG. NO.	
				REV 1.0	
				SCALE: 1:2	WEIGHT: SHEET 9 OF 13

2

1

B

B



A

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN
MILLIMETERSTOLERANCES: ± 3.0 INTERPRET GEOMETRIC
TOLERANCING PER:MATERIAL
PLA, 30% InfillFINISH
N/A

DO NOT SCALE DRAWING

NAME
DATE

DRAWN

Ryan W.

11/11/2019

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

TITLE:

Link 4

SIZE

DWG. NO.

REV

A

1.0

SCALE: 1:2

WEIGHT:

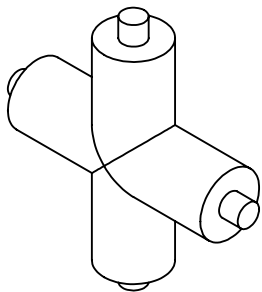
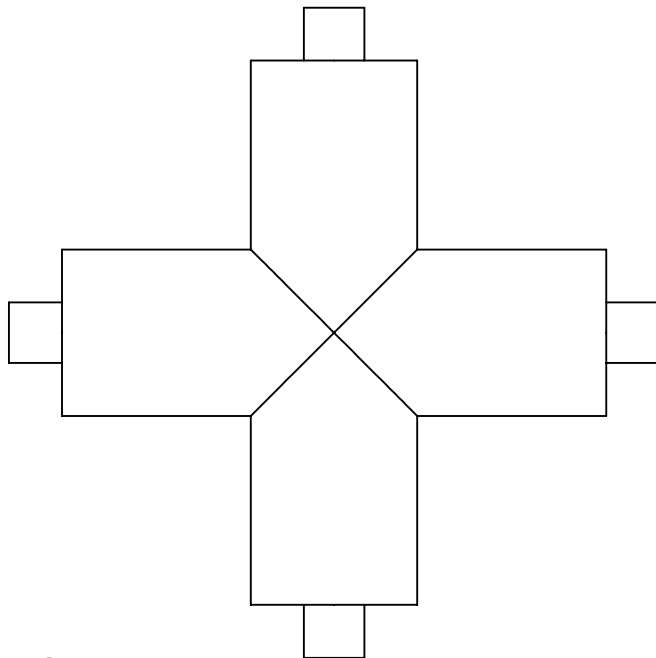
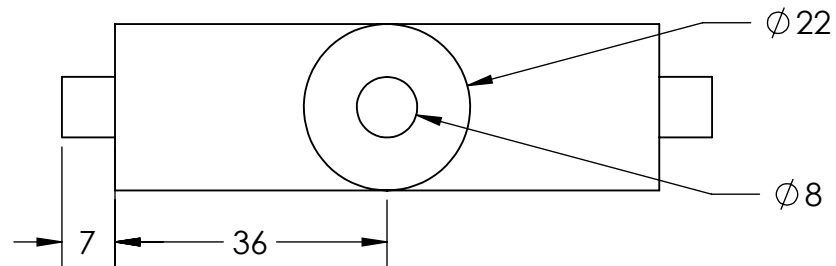
SHEET 10 OF 13

2

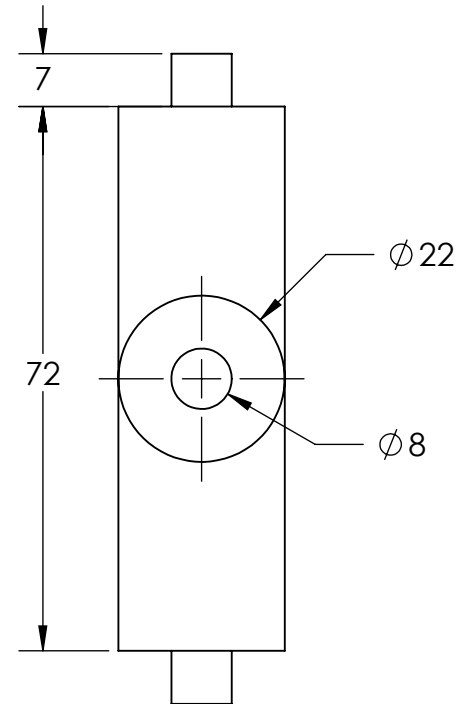
1

B

B



SCALE 1:2



A

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Wrist Differential Crossbar	
DIMENSIONS ARE IN MILLIMETERS TOLERANCES: ± 3.0	DRAWN	Ryan W.	11/8/2019		
	CHECKED				
	ENG APPR.				
	MFG APPR.				
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE A	
MATERIAL PLA, 30% Infill	COMMENTS:				
FINISH N/A					
DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:
				SHEET 11 OF 13	

SIZE
A

DWG. NO.

REV
1.0

SCALE: 1:1

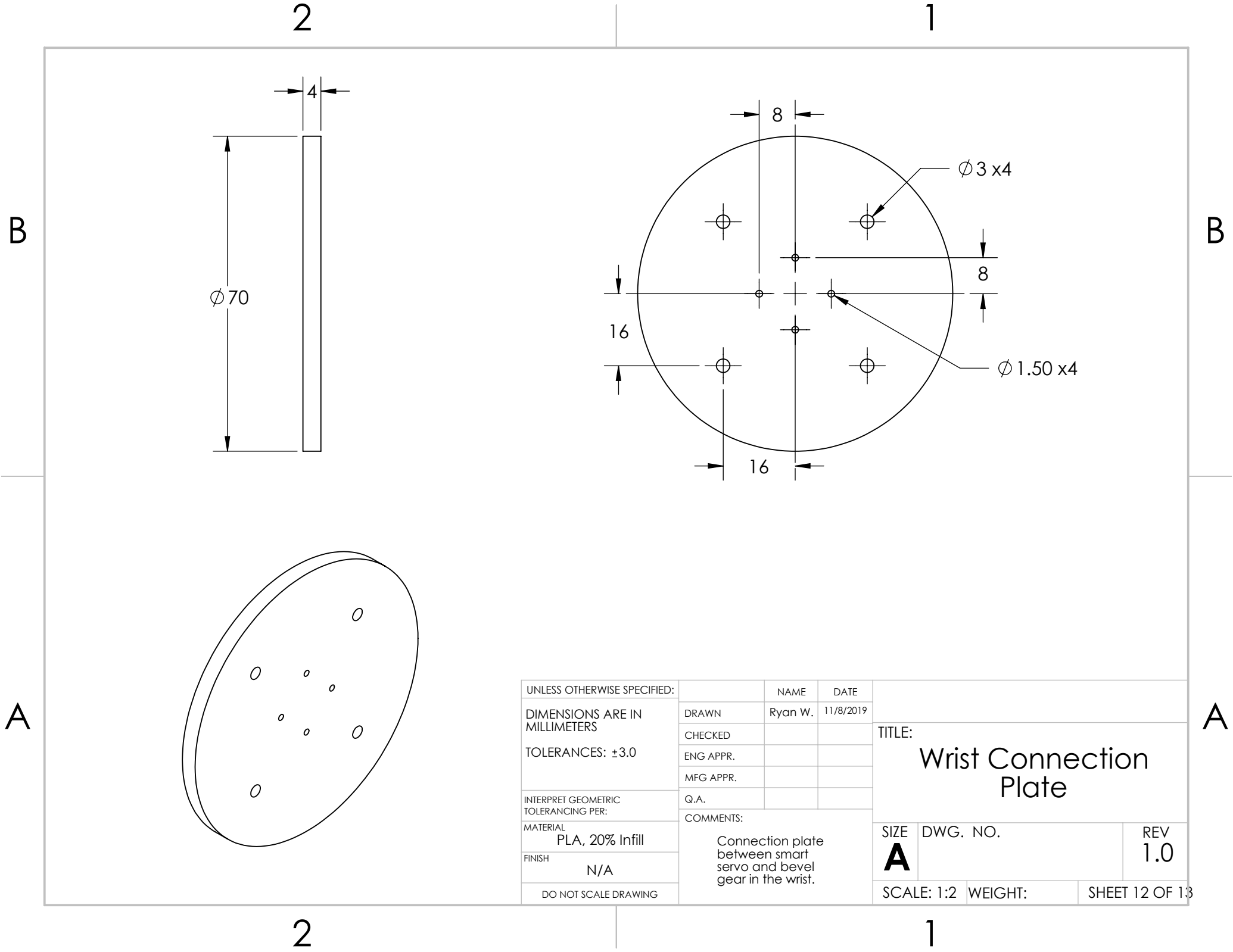
WEIGHT:

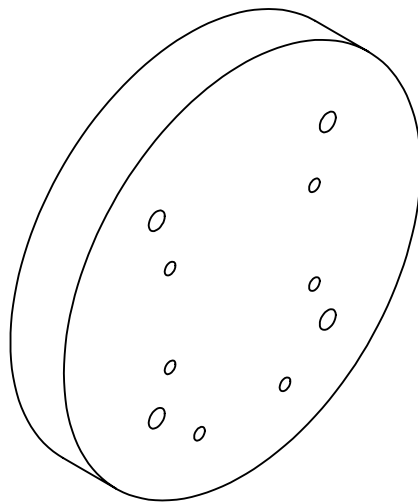
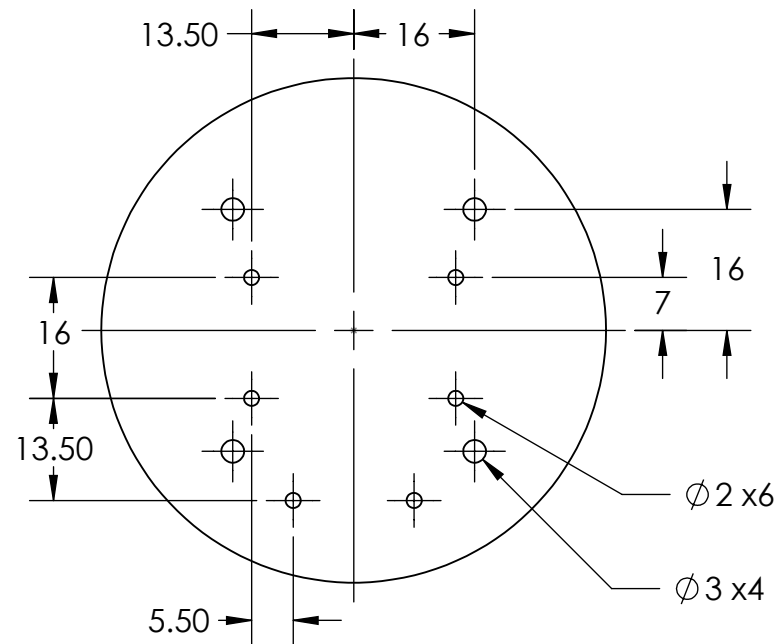
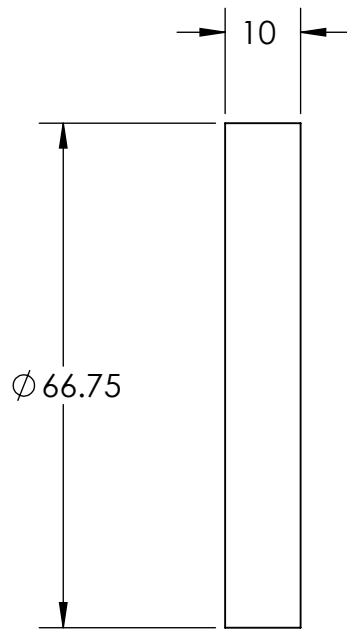
SHEET 11 OF 13

2

1

A





UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: End Effector	
DIMENSIONS ARE IN MILLIMETERS		DRAWN	Ryan W.		
TOLERANCES: ± 3.0		CHECKED			
INTERPRET GEOMETRIC TOLERANCING PER:		ENG APPR.			
MATERIAL PLA, 20% Infill		MFG APPR.			
FINISH N/A		Q.A.		REV 1.0	
DO NOT SCALE DRAWING		COMMENTS:		SIZE A	DWG. NO.
				SCALE: 1:2	WEIGHT:
				SHEET 13 OF 13	