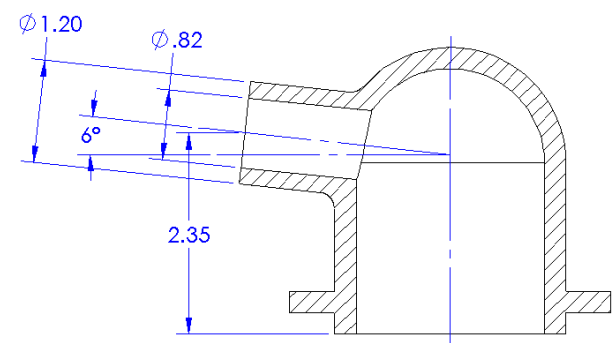
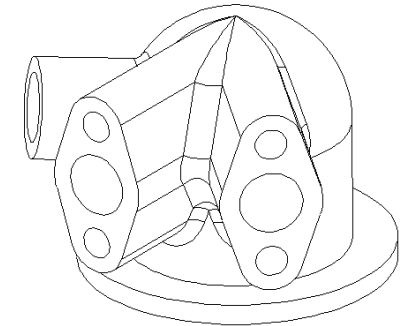
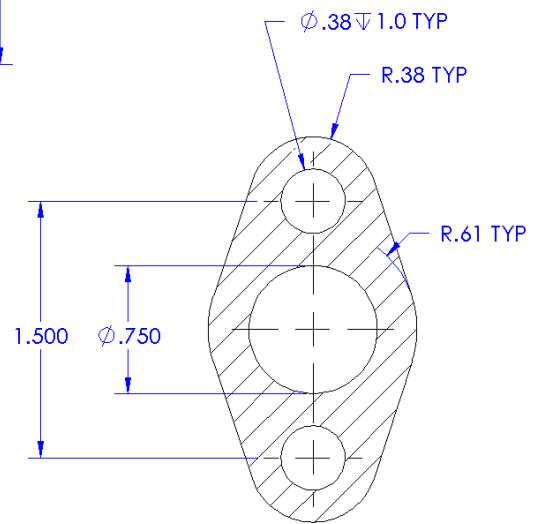


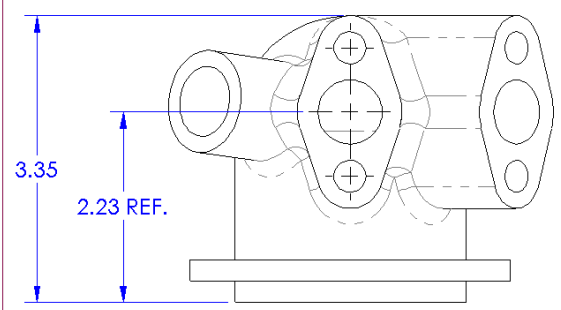
SECTION A-A



SECTION B-B

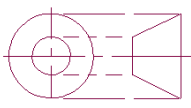


SECTION C-C  
SCALE 1 : 1



- NOTES:**
1. ALL ROUNDS TO BE .188 R
  2. MISSING DIMS ARE ASSUMED TO BE TYPICAL
  3. SYMMETRY IMPLIED

THIRD ANGLE PROJECTION

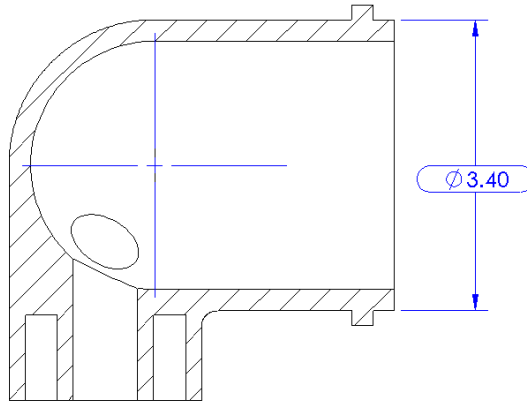
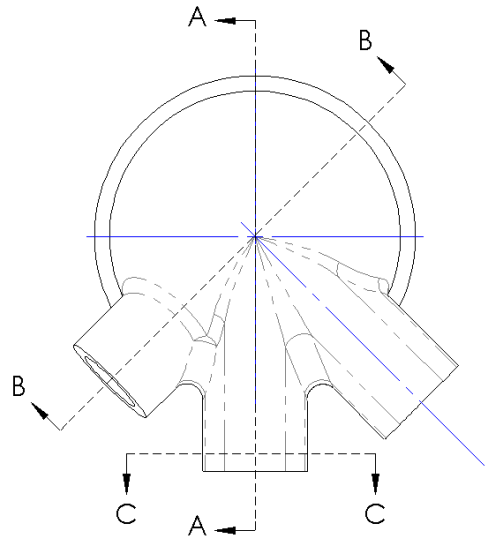


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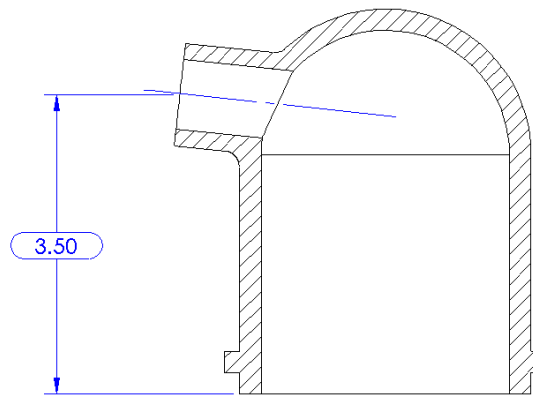
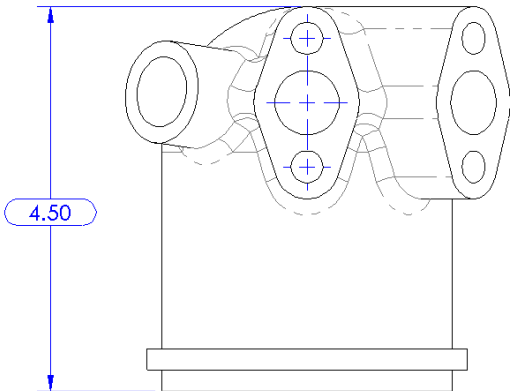
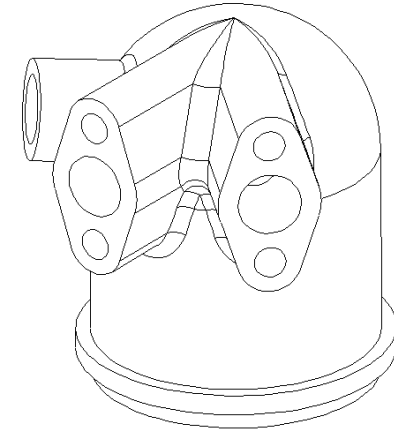
DRAWN BY	NAME	DATE
	JD	2000
MATERIAL		

TITLE: **MODEL MANIA 2010**  
**Phase 1**

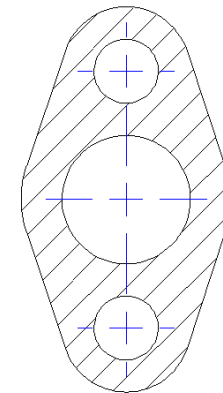
SIZE	DWG. NO.	REV
<b>A</b>	<b>SWING ARM</b>	<b>1</b>
SCALE: 1:2	WEIGHT:	SHEET 1 OF 2



SECTION A-A



SECTION B-B

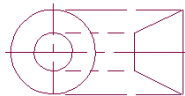


SECTION C-C  
SCALE 1 : 1

**NOTES:**

1. ALL ROUNDS TO BE .188 R
2. MISSING DIMS ARE ASSUMED TO BE TYPICAL
3. SYMMETRY IMPLIED

THIRD ANGLE PROJECTION



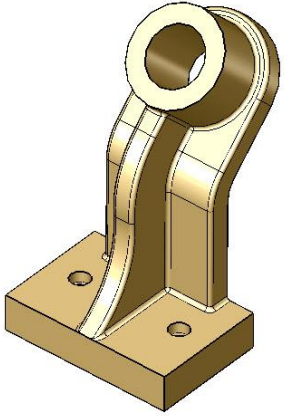
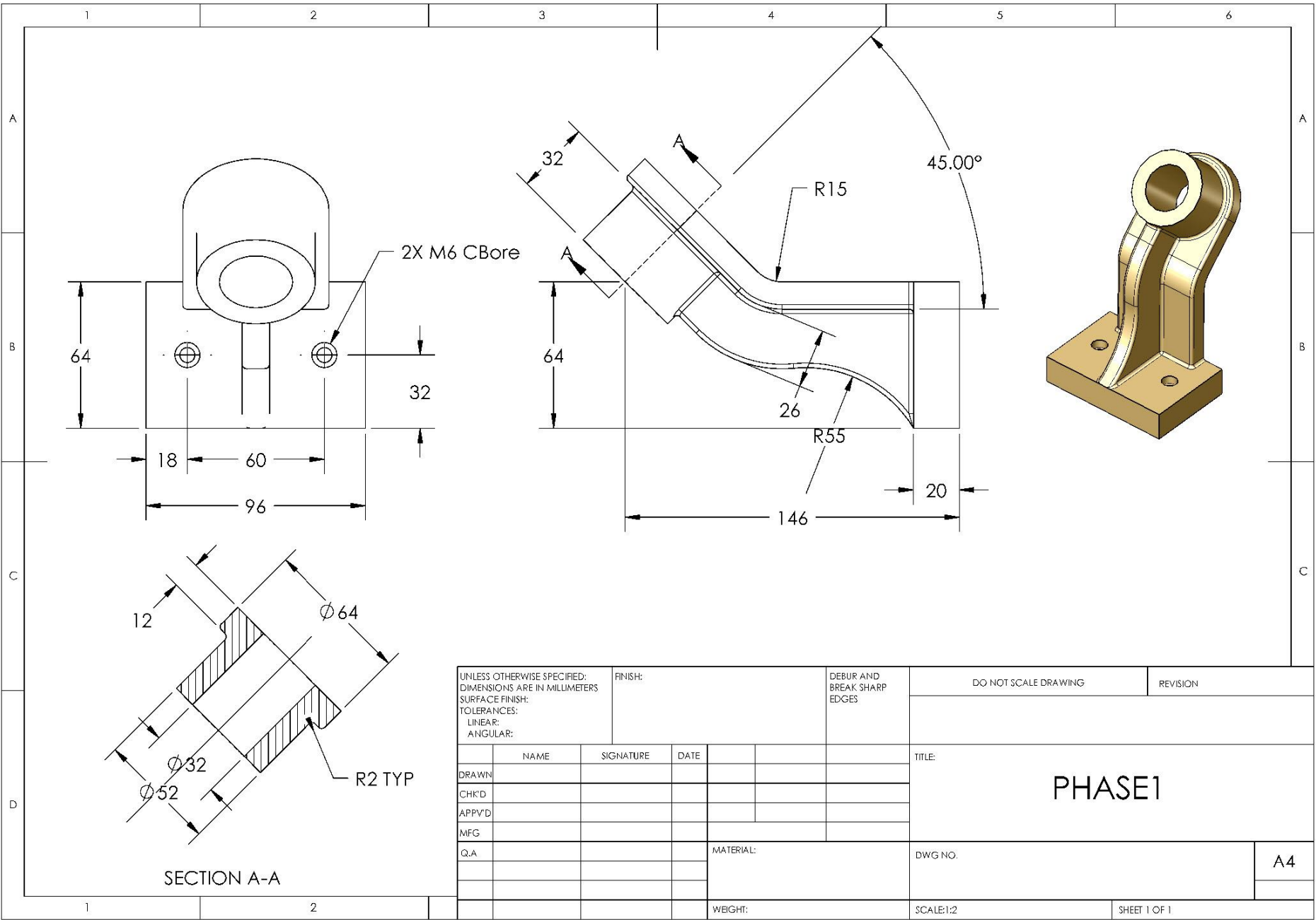
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NAME	DATE
JD	2000
DRAWN BY	
MATERIAL	

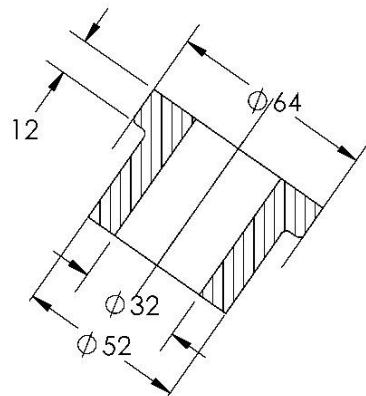
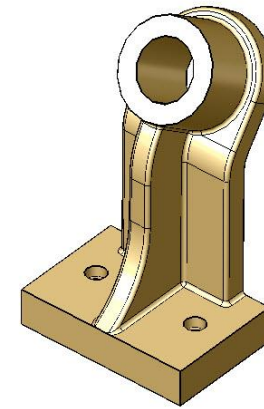
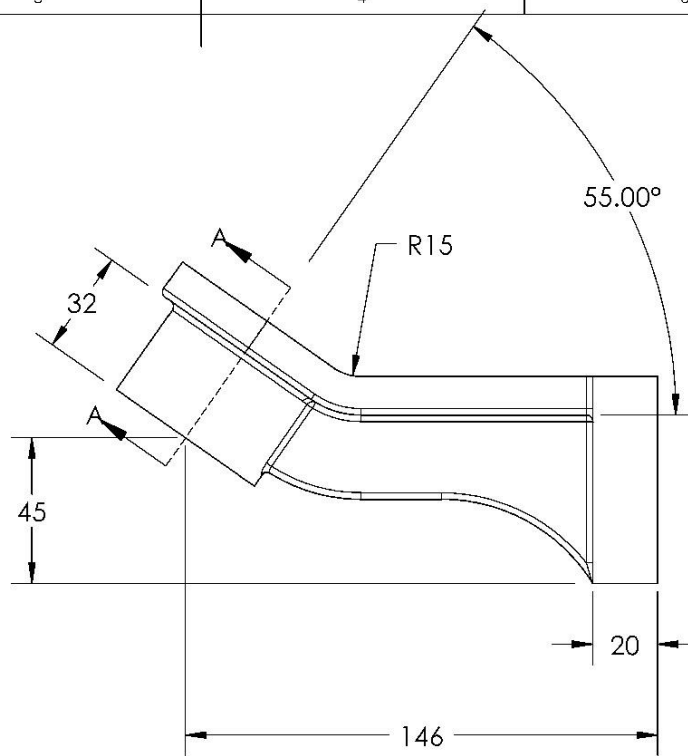
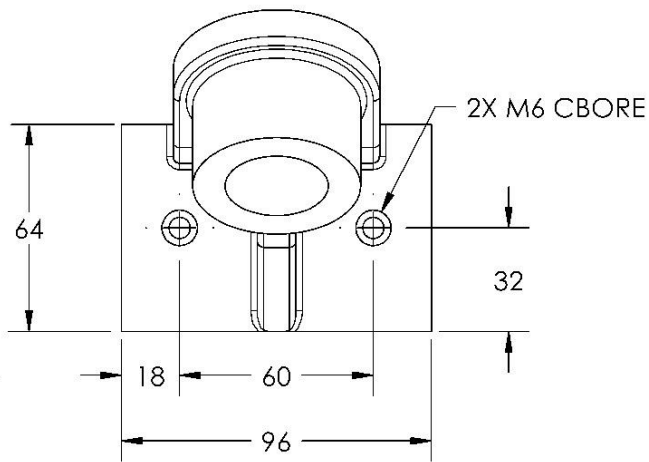
TITLE: **MODEL MANIA 2000**  
**Phase 1**

SIZE	DWG. NO.	REV
<b>A</b>	<b>SWING ARM</b>	<b>1</b>

SCALE: 1:2 WEIGHT: SHEET 2 OF 2



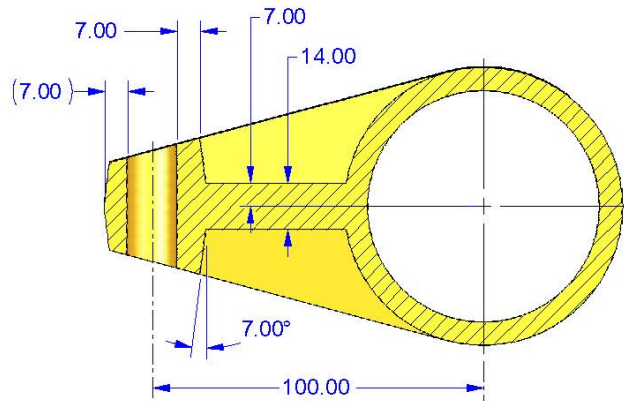
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
								TITLE:  <b>PHASE1</b>			
DRAWN				SIGNATURE		DATE					
CHK'D											
APP'VD											
MFG											
Q.A				MATERIAL:				DWG NO.		A4	
				WEIGHT:				SCALE:1:2		SHEET 1 OF 1	



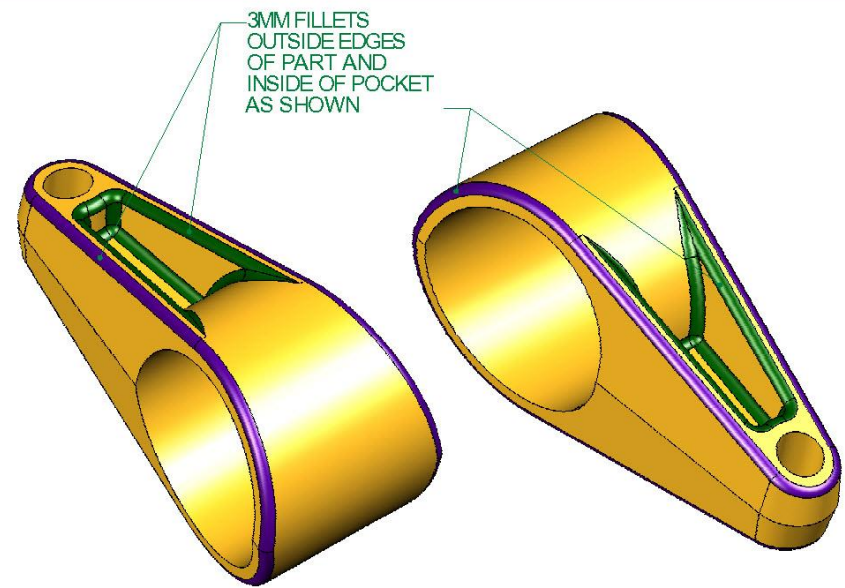
SECTION A-A

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION					
								TITLE:  <b>PHASE2</b>							
DRAWN				SIGNATURE		DATE						MATERIAL:		DWG NO.	
CHK'D														A4	
APP'VD															
MFG															
Q.A								WEIGHT:		SCALE:1:2					
										SHEET 1 OF 1					

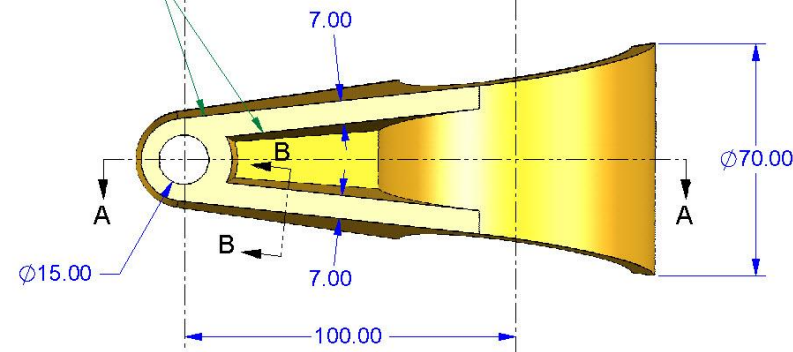




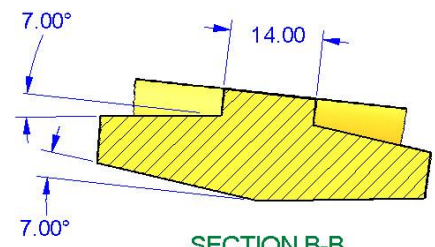
**SECTION A-A**  
FILLETS REMOVED FOR CLARITY



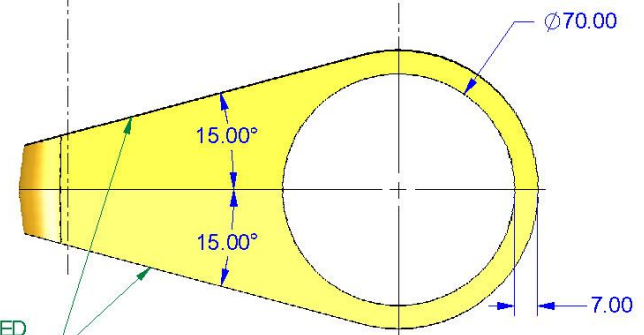
FILLETS REMOVED FOR CLARITY



**SECTION B-B**  
SCALE 2 : 1  
FILLETS REMOVED FOR CLARITY



FILLETS REMOVED FOR CLARITY



ITEM NO.	PART OR IDENTIFYING NO.	DESCRIPTION OR REVISION	MATERIAL SPECIFICATION	QTY REQD
PART LIST				
UNLESS OTHERWISE SPECIFIED		DO NOT MANUALLY EDIT		
DIMENSIONS ARE IN INCHES		TOLERANCES ARE		
FRACTIONS DECIMAL ANGLES		APPROVALS DATE		
1/16 1/32 1/64 .001 .005 .010 .015 .030 .050 .100 .150 .300 .500 .750 1.000		DESIGNER		
		CHECKER		
		DRAWN		
		DATE		
NEXT BY: USE ON:		REV. NO.		
APPLICATION		PART NO.		
DO NOT SCALE DRAWING		DATE		
		SHEET 11 OF 11 MODEL MANIA		

**SolidWorks**

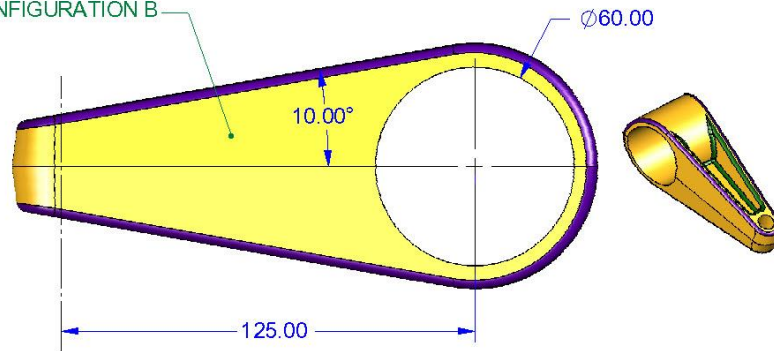
**PHASE 1**

**MODEL MANIA**

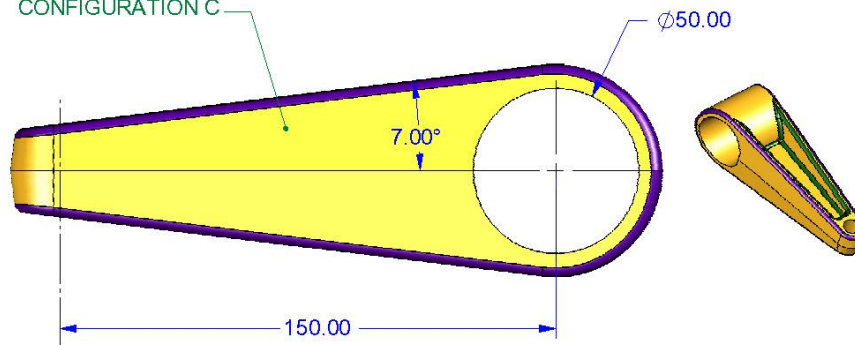
0

DATE: 11/11/2008 11:11:11 AM

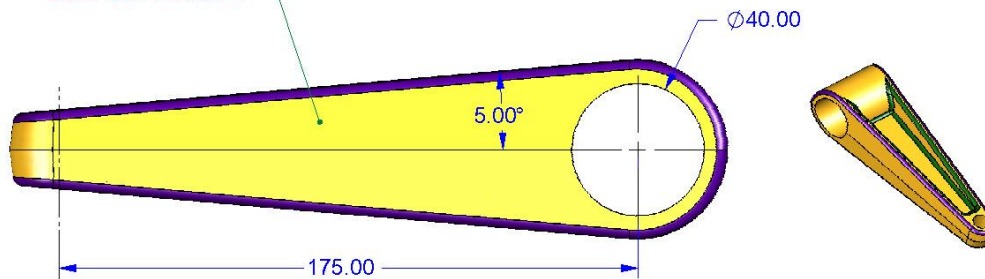
CONFIGURATION B



CONFIGURATION C



CONFIGURATION D



CREATE 3 ADDITIONAL CONFIGURATIONS OF THE PART WITH THE FOLLOWING DIMENSIONAL CHANGES.

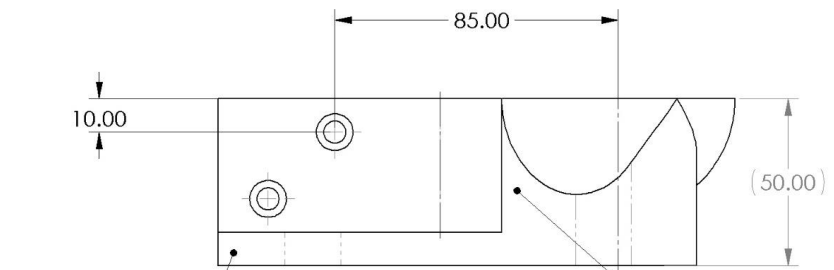
NOTE: YOU WILL NEED TO ADD THESE CONFIGURATIONS TO THE SAME PART USED IN PHASE ONE. THE FIRST CONFIGURATION WILL ALREADY BE NAMED "Default"

CONFIGURATION	LARGE HOLE DIAMETER	DISTANCE BETWEEN CENTERS	TOP SLOPE ANGLE
Default	70	100	15
B	60	125	10
C	50	150	7
D	40	175	5

FILE NO.	PART OR IDENTIFYING NO.	DESCRIPTION OR DESCRIPTION	MATERIAL SPECIFICATION	QUANTITY
PART LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DO NOT MANUALLY SCALE			
TOLERANCES ARE:	APPROVALS:	DATE:		
FRACTIONS DECIMAL ANGLES	DESIGNER:	DATE:		
± .001 .001 .001	CHECKER:	DATE:		
	APPROVAL:	DATE:		
	DATE:	DATE:		
NEXT BY:	USED ON:	REV:	DATE:	REV:
APPLICATION:	DO NOT SCALE DRAWING	DATE:	DATE:	DATE:
SolidWorks			PHASE 2	
MODEL MANIA			REV: 0	
PART 11			REV: 0	

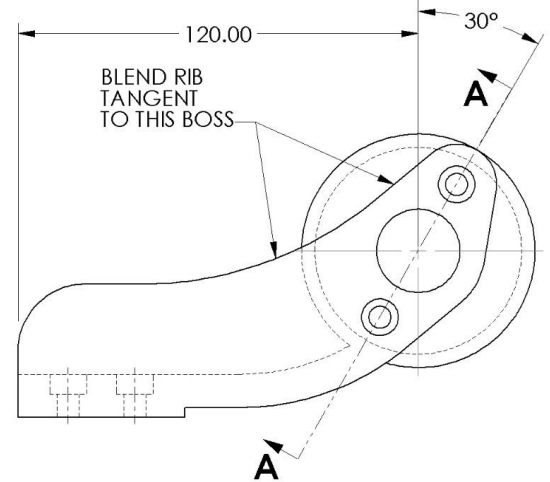


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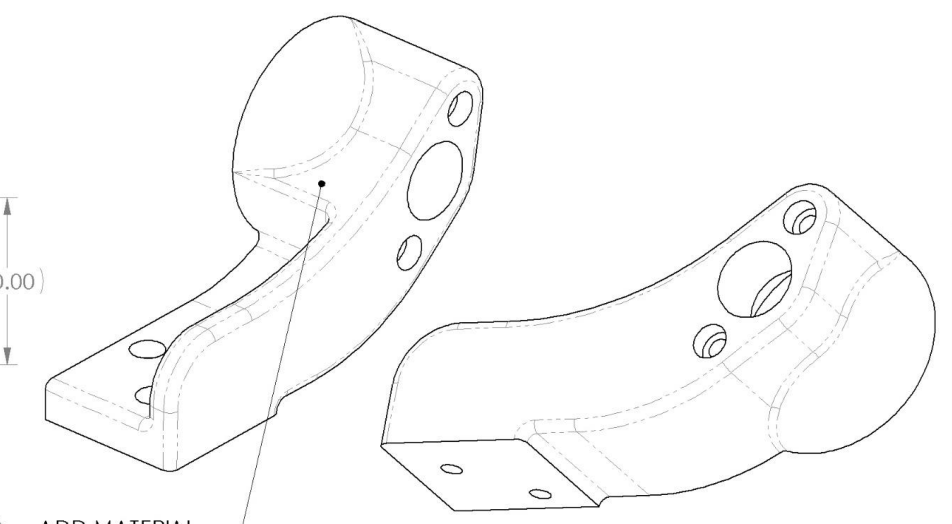
RE-POSITION RIB  
TO THIS SIDE

**SHOWN WITH NO  
FILLETS FOR CLARITY**

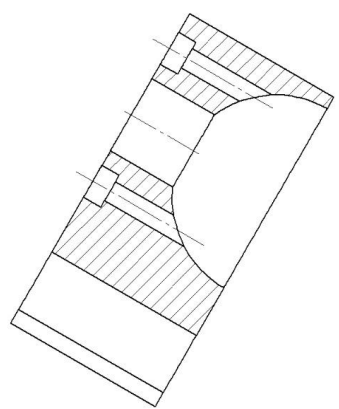


BLEND RIB  
TANGENT  
TO THIS BOSS

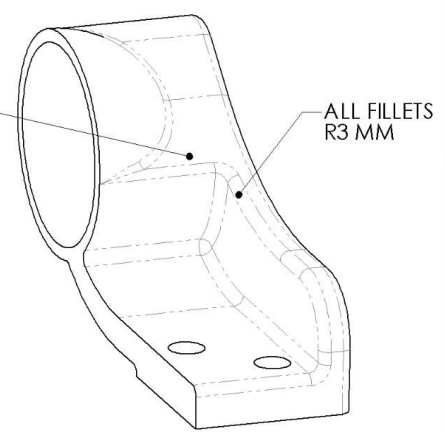
**SHOWN WITH NO  
FILLETS FOR CLARITY**



ADD MATERIAL  
BETWEEN SPHERE  
AND RIB



**SECTION A-A  
SHOWN WITH NO  
FILLETS FOR CLARITY**



ALL FILLETS  
R3 MM

**THIS DRAWING ONLY SHOWS  
THE CHANGED DIMENSIONS.**

**ANY DIMENSIONS IN PARENTHESIS  
ARE FOR REFERENCE ONLY AND  
HAVE NOT BEEN CHANGED**

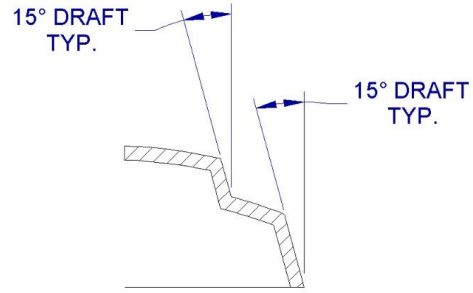
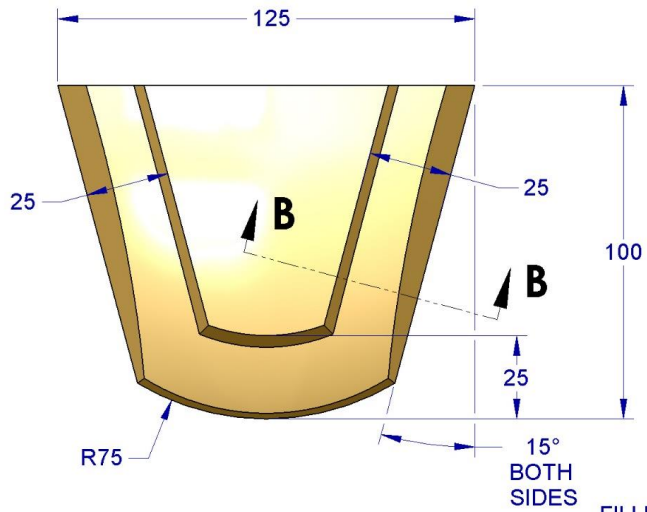
# PHASE 2

REV. NO.	PART OR DRAWING NO.	DESCRIPTION OR REVISION	MATERIAL SPECIFICATION	QTY. REQD.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		
TOLERANCES ARE: FRACTIONS DECIMALS ANGLES		APPROVALS DATE		
+ .XX + .XX + .1		DRAWN		
ZER+XXX		CHECKED		
MATERIAL		REP. ENG.		
FINISH		MFG. ENG.		
NEXT ASSY. USED ON		SIGNALING		
APPLICATION		DO NOT SCALE DRAWING		

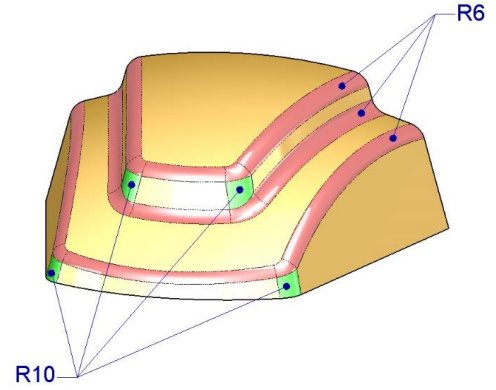
  

<b>SolidWorks</b>		REV. 0
<b>PHASE 2</b>		
SEE DWG. NO. C	MODEL MANIA 2003	
SCALE: 1:1	CAD FILE	SHEET 1 OF 1



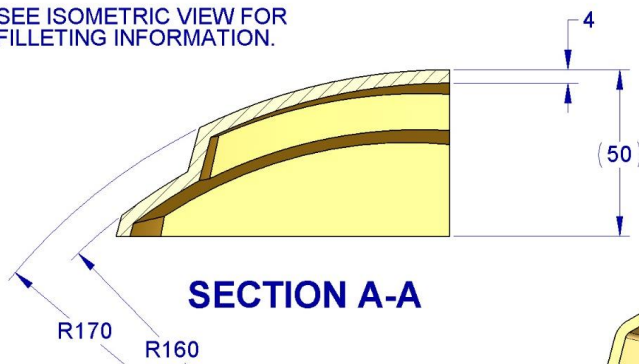
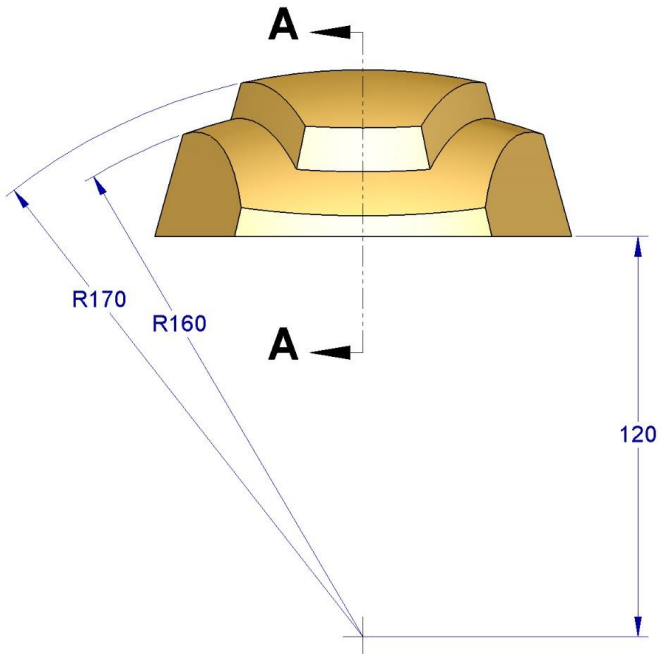


**SECTION B-B**  
ROTATED 15°

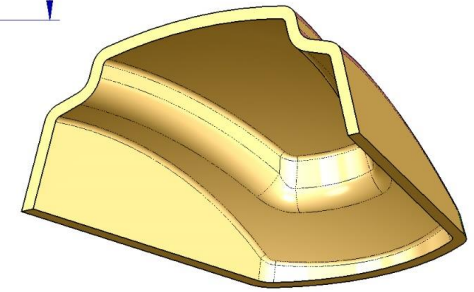


FILLETS REMOVED FROM  
ORTHOGRAPHIC  
PROJECTIONS FOR CLARITY.

SEE ISOMETRIC VIEW FOR  
FILLETING INFORMATION.



**SECTION A-A**



**DIMENSIONS ARE IN MILLIMETERS**

	NAME	DATE
DRAWN	AAAS	12-19-03
CHECKED		
ENG. APPR.		
MFG. APPR.		
G.A.		

TITLE:  
**MODEL MANIA  
2004**

SIZE DWG. NO. REV

**C PHASE 1**

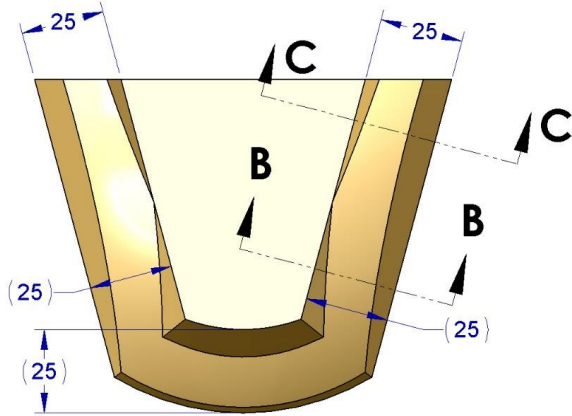
DO NOT SCALE THIS DRAWING SHEET 1 OF 1

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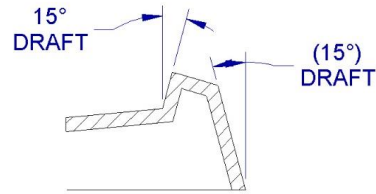
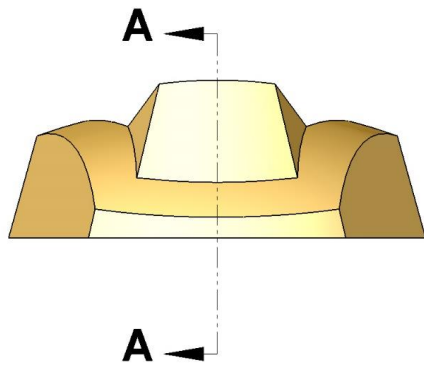
COMMENTS

THIRD ANGLE PROJECTION

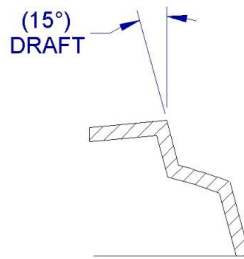




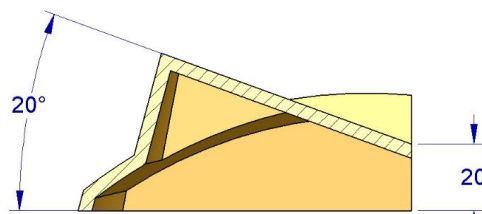
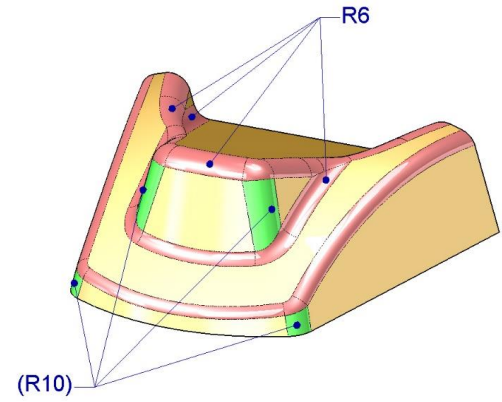
FILLETS REMOVED FROM  
ORTHOGRAPHIC  
PROJECTIONS FOR CLARITY.  
SEE ISOMETRIC VIEW FOR  
FILLETING INFORMATION.



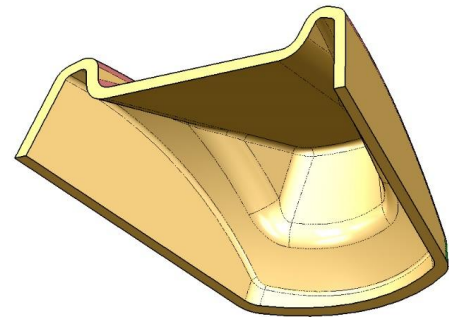
**SECTION C-C**  
ROTATED 15°



**SECTION B-B**  
ROTATED 15°



**SECTION A-A**



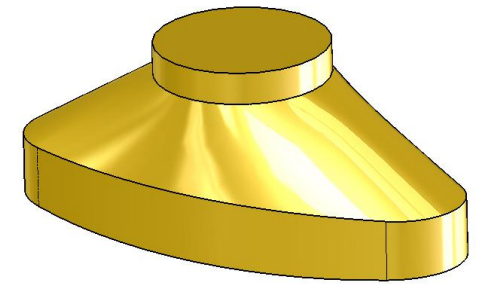
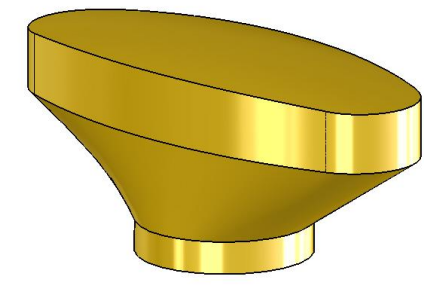
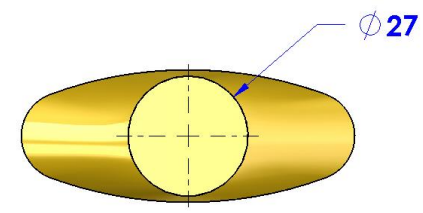
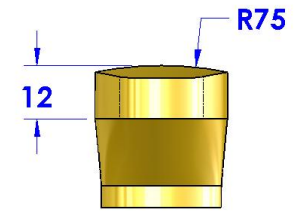
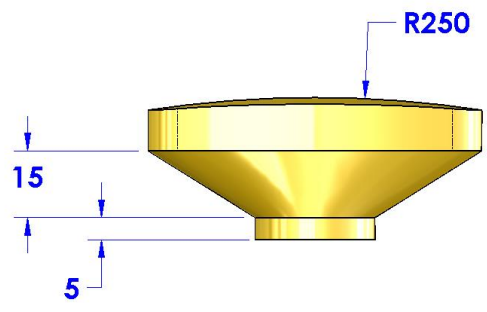
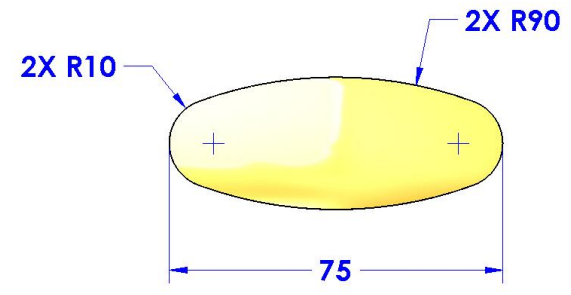
**DIMENSIONS ARE IN MILLIMETERS**

NAME	DATE	TITLE:	
DRAWN: NAAC	12-19-03	<b>MODEL MANIA 2004</b>	
CHECKED:		SIZE: <b>C</b>	DWG. NO.:
ENG. APPR.:		REV:	
MFG. APPR.:		DO NOT SCALE THIS DRAWING	
G.A.:		SHEET 1 OF 1	

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8 7 6 5 4 3 2 1



D  
C  
B  
A

D  
C  
B  
A

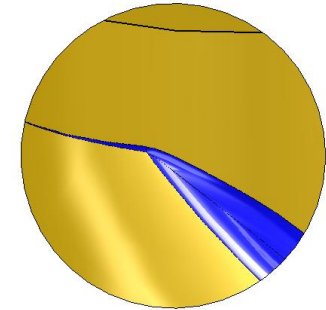
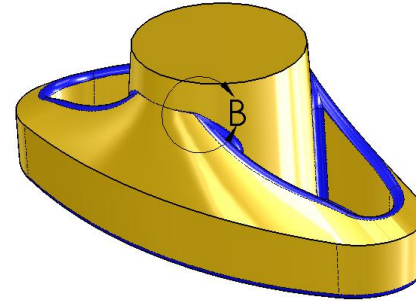
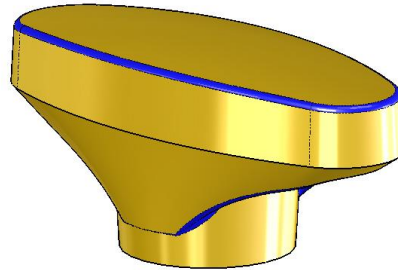
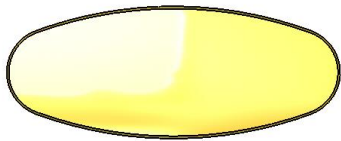
8 7 6 5 4 3 2 1

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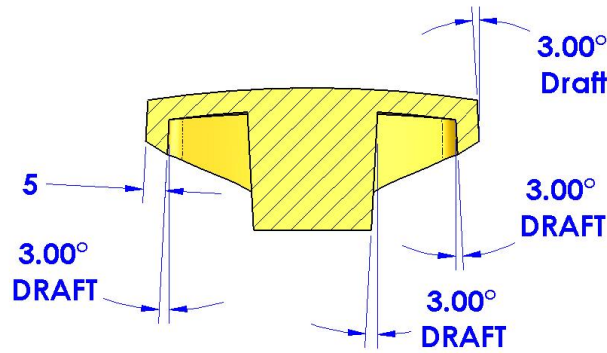
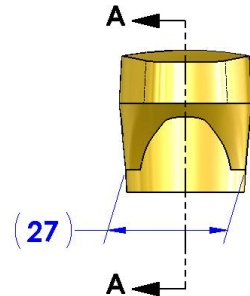
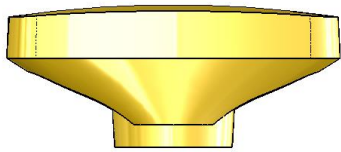
	NAME	DATE	<b>MODEL MANIA 2005</b>	
DRAWN	MAS		TITLE: <b>HANDLE PHASE 1</b>	
CHECKED			SIZE <b>B</b>	DWG. NO.
ENG APPR.			SCALE: 2:1	WEIGHT:
MFG APPR.				SHEET 1 OF 1
Q.A.				
COMMENTS				REV
<b>DIMENSIONS ARE IN MILLIMETERS</b>				

**CHANGES:**  
**THIS PART NEEDS TO BE MOLDED.**  
**1. REMOVE MATERIAL AS SHOWN.**  
**2. ADD DRAFT.**  
**3. ADD FILLETS.**

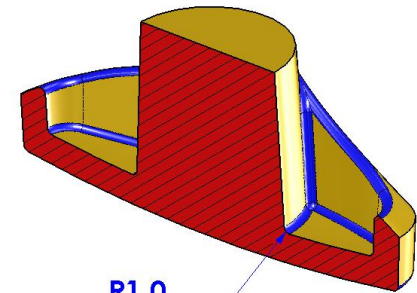
**ALL FILLETS ARE SHOWN IN BLUE AND ARE TO BE 1.0 MM**



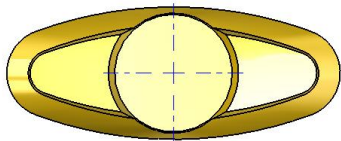
**DETAIL B  
SCALE 6 : 1**



**SECTION A-A**



**R1.0  
ALL  
FILLETS**



**ORTHOGRAPHIC VIEWS  
SHOWN WITHOUT  
FILLETS FOR CLARITY**

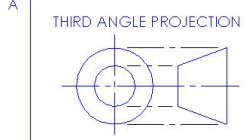
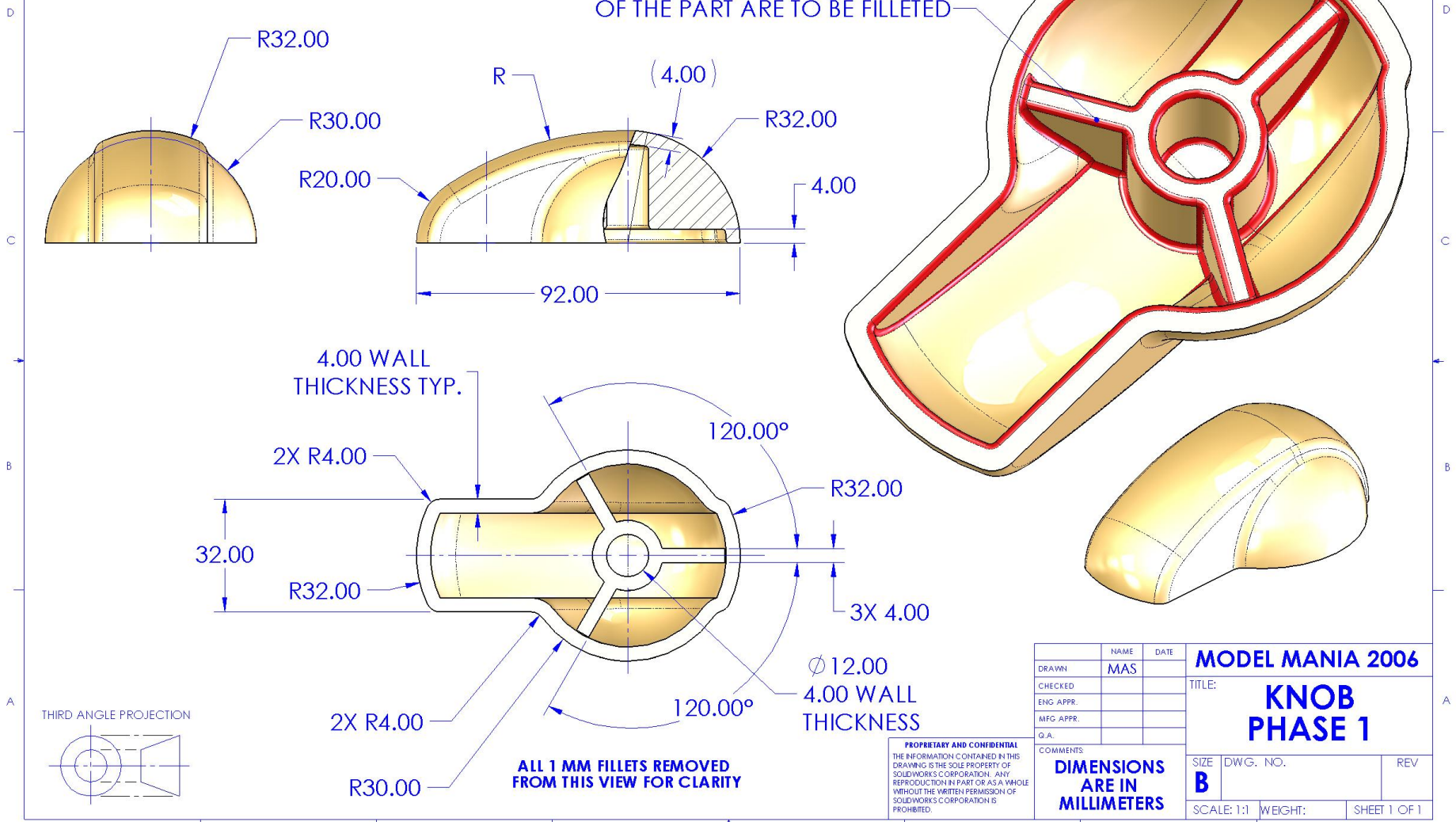
PROPRIETARY AND CONFIDENTIAL  
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WITHOUT THE WRITTEN PERMISSION OF  
SOLIDWORKS CORPORATION IS  
PROHIBITED.

NAME		DATE	MODEL MANIA 2005	
DRAWN	MAS		TITLE: <b>HANDLE  PHASE 2</b>	
CHECKED			SIZE	DWG. NO.
ENG APPR.			<b>B</b>	REV
MFG APPR.			SCALE: 1:1	WEIGHT:
Q.A.				SHEET 1 OF 1
COMMENTS			DIMENSIONS ARE IN MILLIMETERS	



8 7 6 5 4 3 2 1

ALL FILLETS SHOWN IN RED ARE TO BE 1.00 MM.  
ALL EDGES ON THE INSIDE OF THE PART ARE TO BE FILLETED

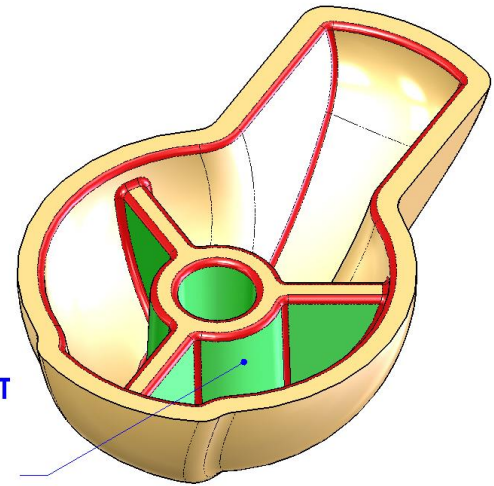
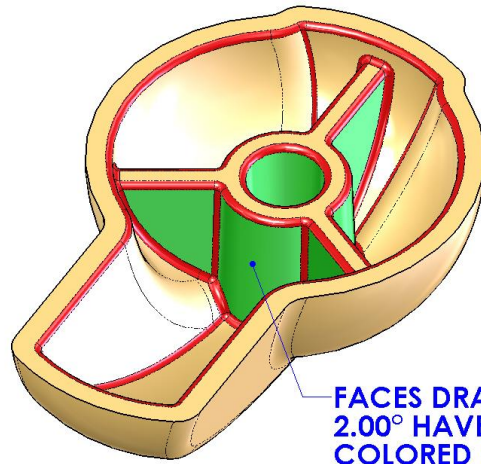
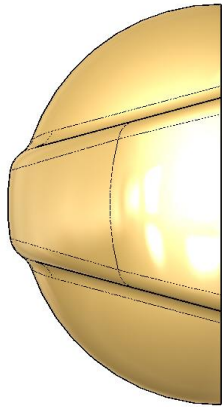
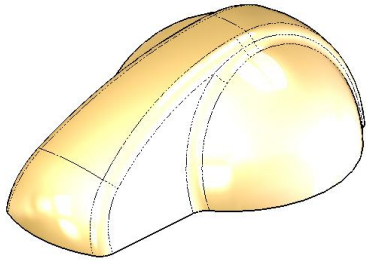


PROPRIETARY AND CONFIDENTIAL  
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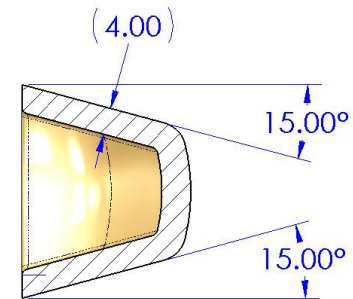
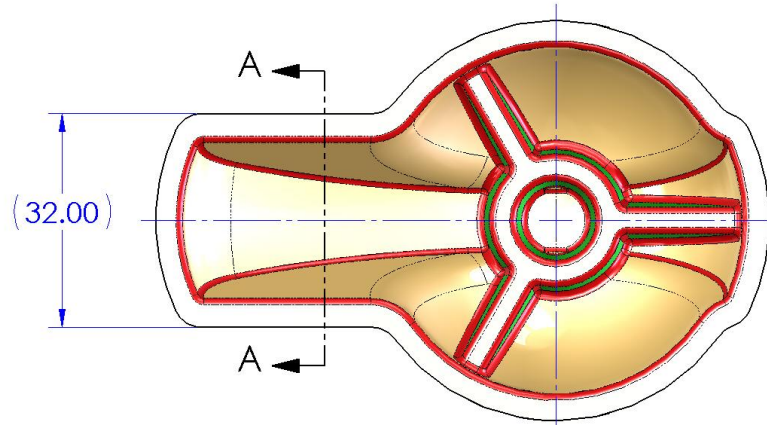
	NAME	DATE	<b>MODEL MANIA 2006</b>	
DRAWN	MAS		TITLE: <b>KNOB PHASE 1</b>	
CHECKED			SIZE <b>B</b> DWG. NO. REV	
ENG APPR.			SCALE: 1:1 WEIGHT: SHEET 1 OF 1	
MFG APPR.				
Q.A.				
COMMENTS			<b>DIMENSIONS ARE IN MILLIMETERS</b>	

**CHANGES:**

1. MAKE CHANGES AS INDICATED IN SECTION A - A.
2. ADD 2 DEGREES OF DRAFT TO ALL OF THE VERTICAL FACES ON INSIDE OF PART. (FACES DRAFTED AT 2.00° HAVE BEEN COLORED GREEN FOR CLARITY.)
3. ALL OTHER DIMENSIONS REMAIN THE SAME AS IN PHASE 1.



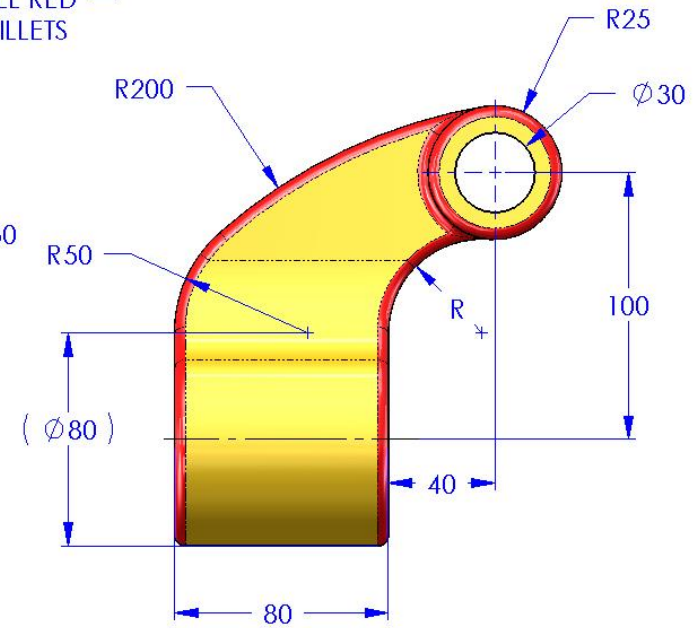
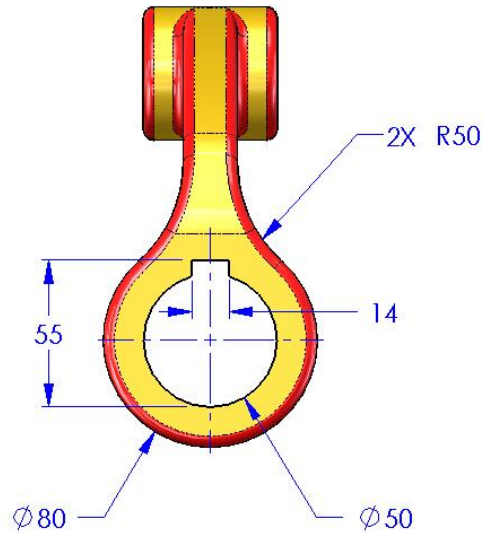
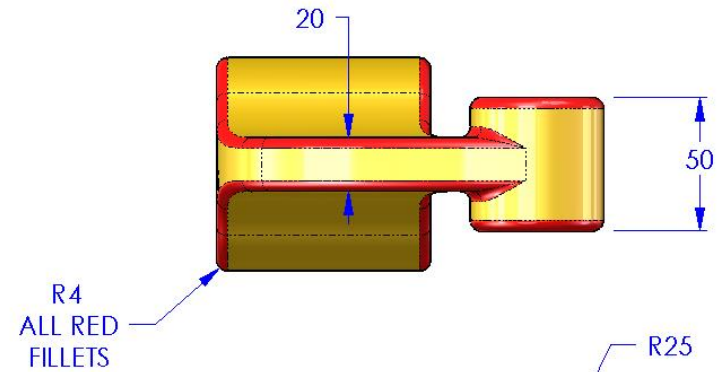
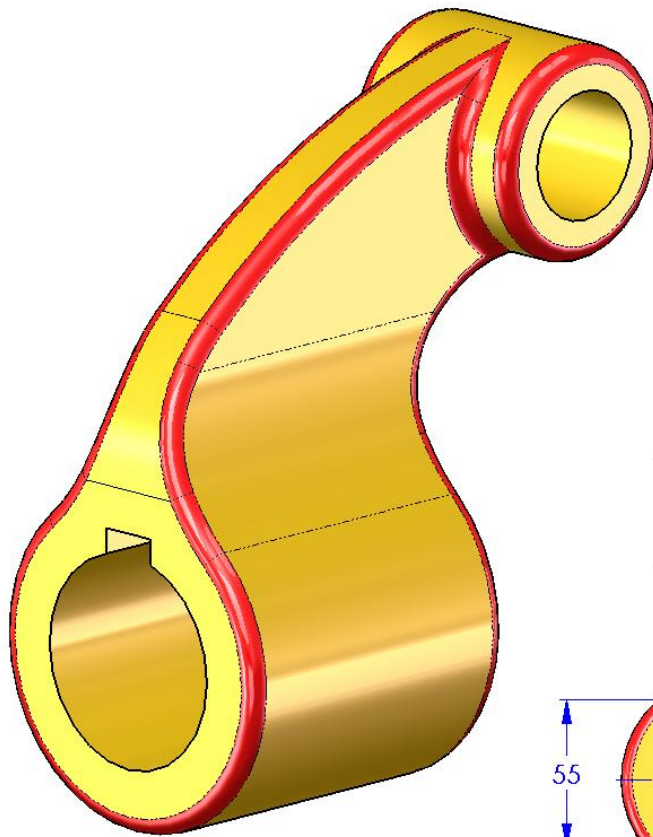
FACES DRAFTED AT 2.00° HAVE BEEN COLORED GREEN FOR CLARITY



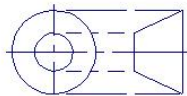
**SECTION A-A**

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DRAWN	NAME	DATE	<b>MODEL MANIA 2006</b>	
CHECKED	MAS		TITLE: <b>KNOB PHASE 2</b>	
ENG APPR.			SIZE <b>B</b>	DWG. NO.
MFG APPR.			SCALE: 1:1	WEIGHT:
Q.A.				SHEET 1 OF 1
COMMENTS				
<b>DIMENSIONS ARE IN MILLIMETERS</b>				



THIRD ANGLE PROJECTION



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**DIMENSIONS  
 ARE IN  
 MILLIMETERS**

**MODEL MANIA 2007**

TITLE: **OFFSET LINK**

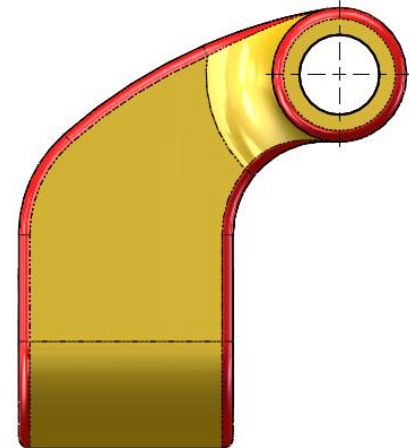
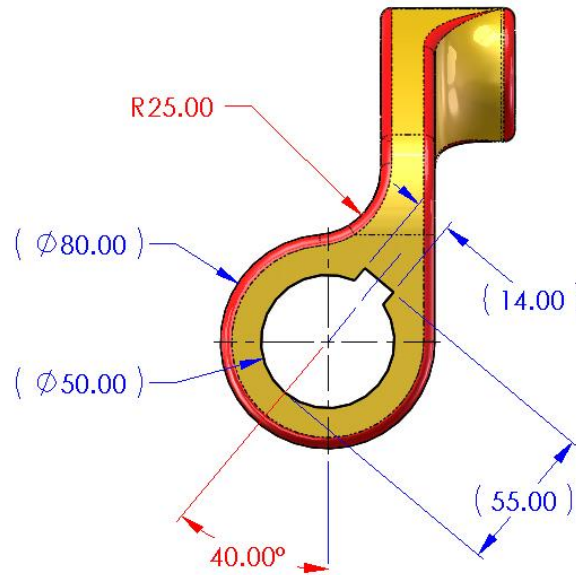
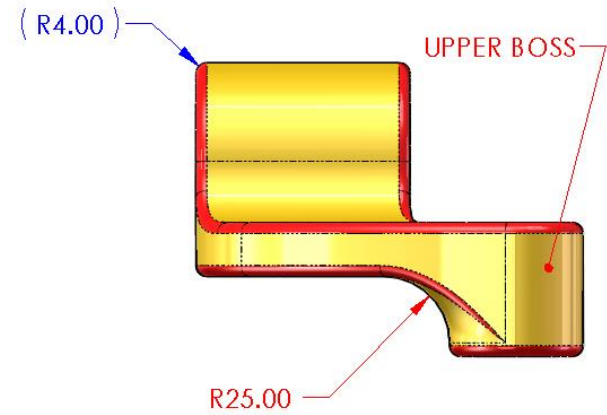
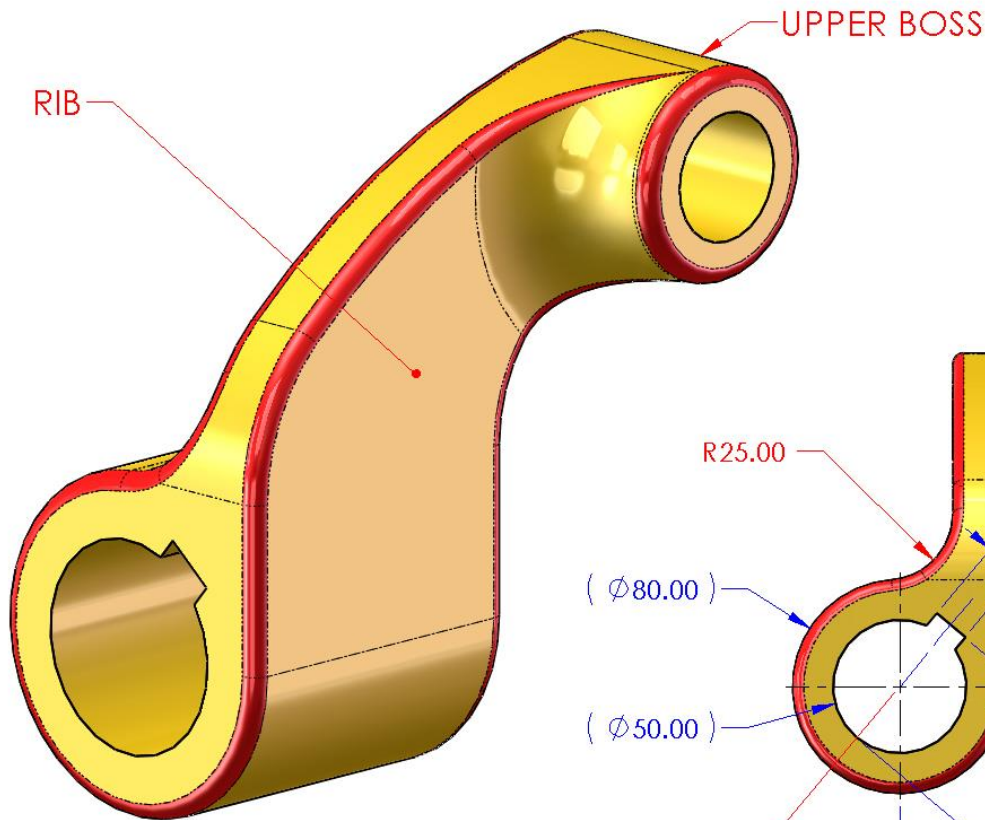
SIZE <b>A</b>	DWG. NO. <b>PHASE 1</b>	REV
------------------	----------------------------	-----

SHEET 1 OF 1

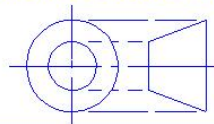


**CHANGES:**

1. ROTATE KEYWAY AS DEPICTED IN DRAWING
2. CHANGED DIMENSIONS DEPICTED IN RED.
3. DIMENSIONS IN PARENTHESIS ARE FOR REFERENCE ONLY.



THIRD ANGLE PROJECTION



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**DIMENSIONS  
ARE IN  
MILLIMETERS**

**MODEL MANIA 2007**

TITLE: **OFFSET LINK**

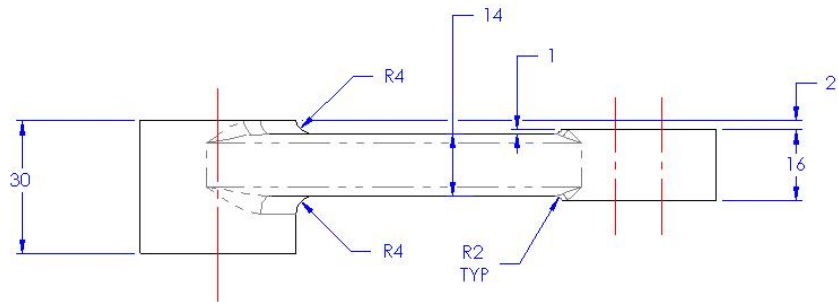
SIZE  
**A**

DWG. NO.

**PHASE 2**

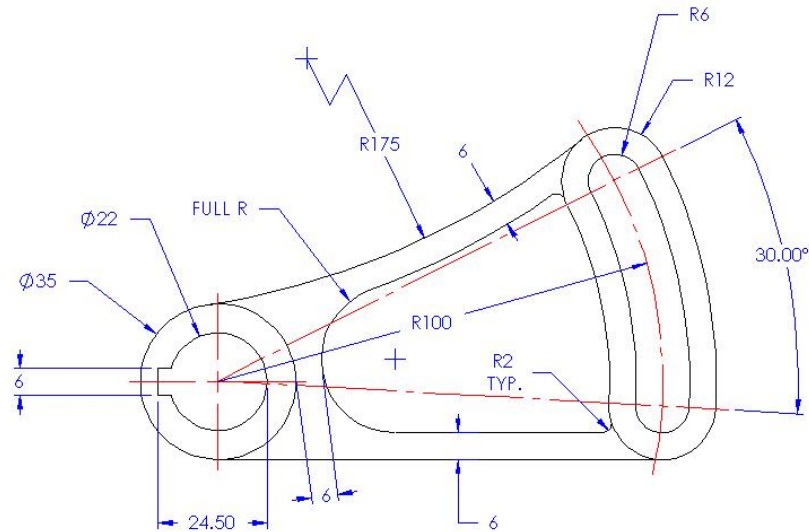
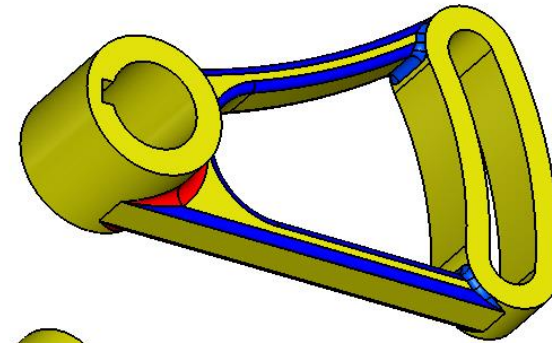
REV

SHEET 1 OF 1

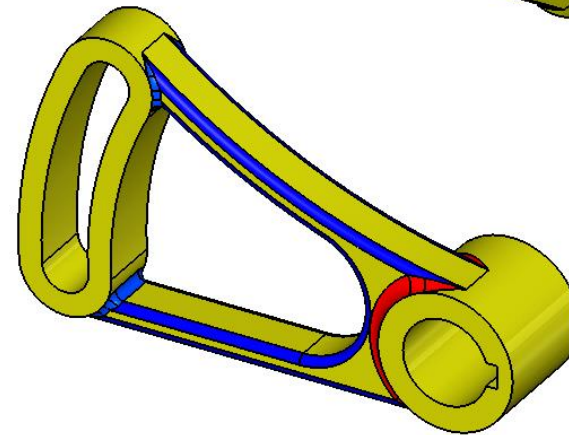


**NOTES:**

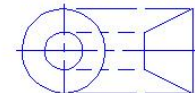
1. MATERIAL: AISI 1020
2. FILLETS COLORED BLUE - R2
3. FILLETS COLORED RED - R4



TANGENT EDGES  
REMOVED FOR CLARITY



THIRD ANGLE PROJECTION

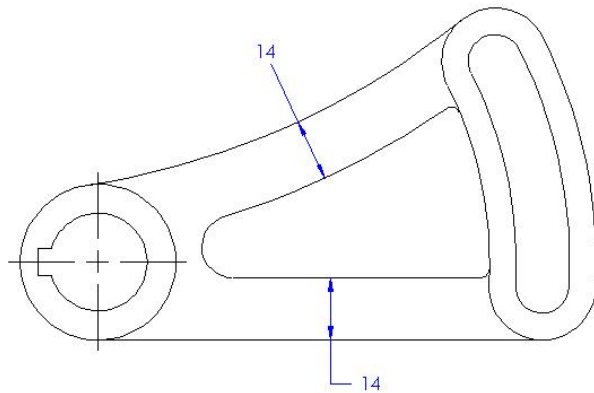
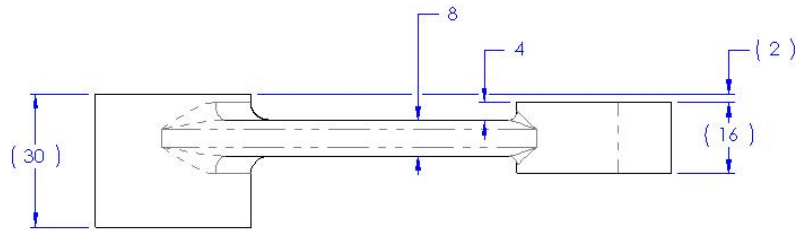


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TITLE:  
**MODEL MANIA 2008  
PHASE 1**

DRAWN BY	NAME	DATE
MATERIAL	AISI 1020	

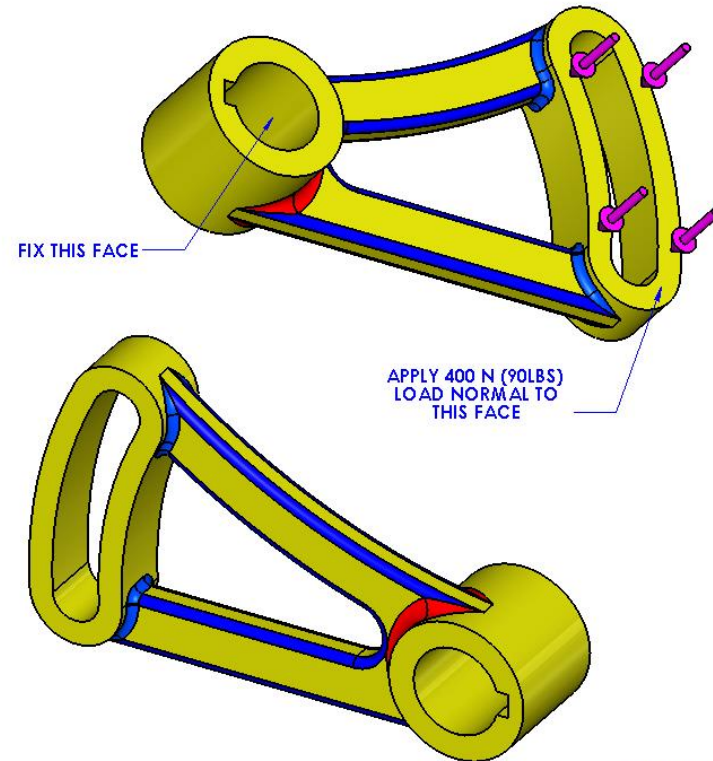
SIZE	DWG. NO.	REV
<b>A</b>	<b>Model Mania 2008</b>	<b>1</b>
SCALE: 2:3	WEIGHT: YOU TELL ME	SHEET 1 OF 2



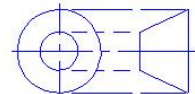
TANGENT EDGES  
REMOVED FOR CLARITY

**NOTES: (FOR REFERENCE ONLY-NO CHANGES)**

1. MATERIAL: AISI 1020
2. FILLETS COLORED BLUE = R2
3. FILLETS COLORED RED = R4



THIRD ANGLE PROJECTION



**PHASE 2 CHANGES:**

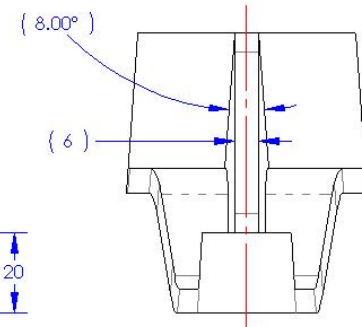
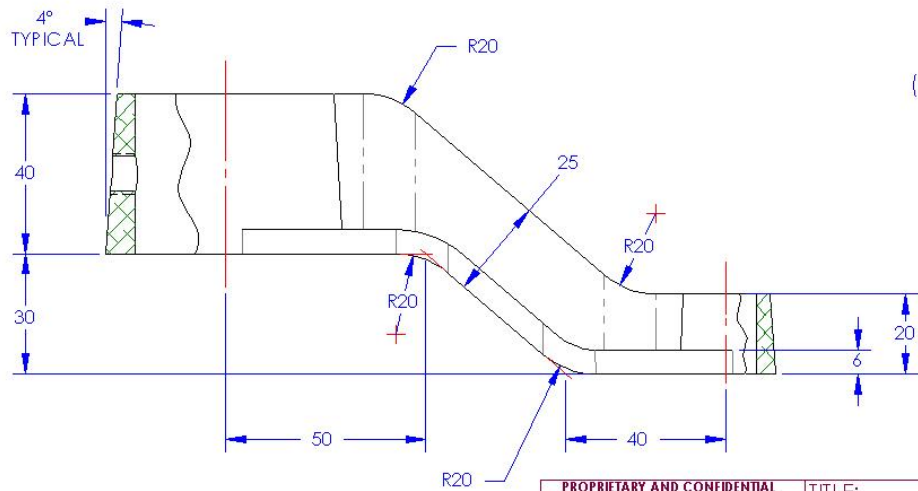
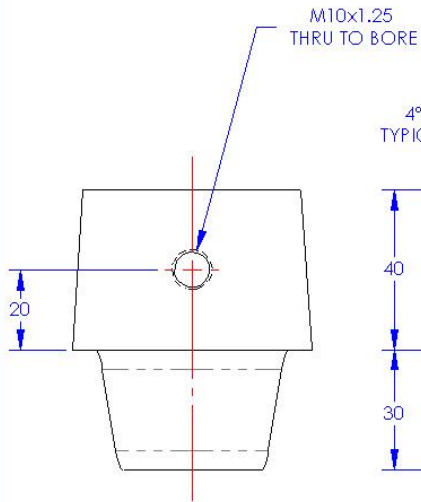
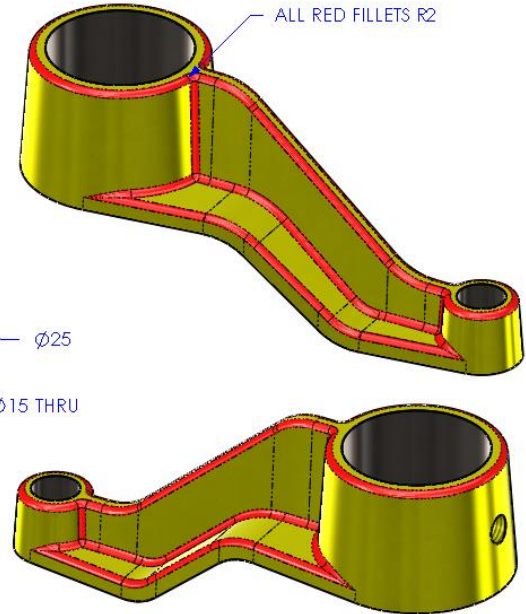
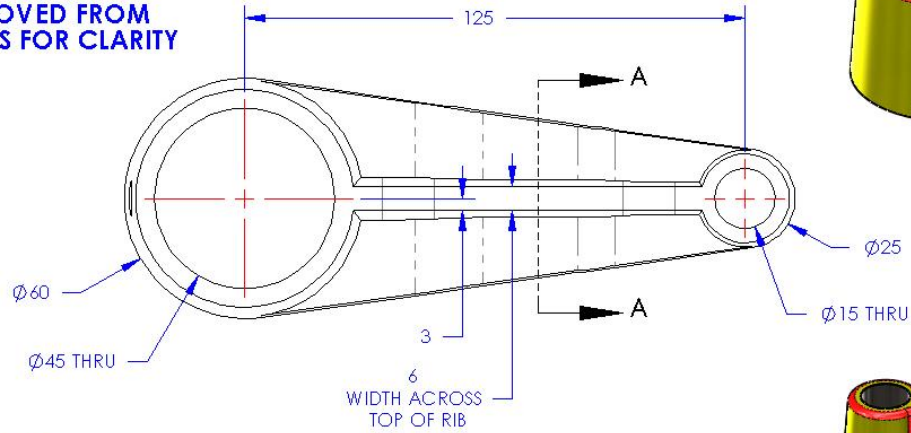
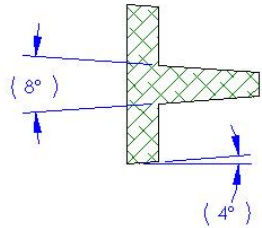
1. CREATE A NEW CONFIGURATION CALLED "PHASE 2".
2. FOR THIS CONFIGURATION ONLY, MAKE THE CHANGES INDICATED IN THE VIEWS ABOVE. (DIMENSIONS IN PARENTHESIS ARE FOR REFERENCE ONLY.)
3. USE SIMULATIONXPRESS OR SOLIDWORKS SIMULATION TO ANALYZE THE 2 CONFIGURATIONS AND DETERMINE WHICH IS STRONGER (HIGHEST FACTOR OF SAFETY).
4. RECORD THE MINIMUM FACTOR OF SAFETY FOR EACH VERSION OF THIS PART.

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DRAWN BY	NAME	DATE	SIZE	DWG. NO.	REV
	MAS	1-9-08	<b>A</b>	<b>Model Mania 2008</b>	<b>1</b>
MATERIAL AISI 1020			SCALE: 2:3	WEIGHT: YOU TELL ME	SHEET 2 OF 2

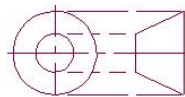


**NOTES:**

1. MATERIAL: Aluminum 6061-T6 (SS)
2. FILLETS COLORED RED - R2
3. ALL DRAFT - 4 DEGREES
4. RED 2 MM FILLETS REMOVED FROM ORTHOGRAPHIC VIEWS FOR CLARITY



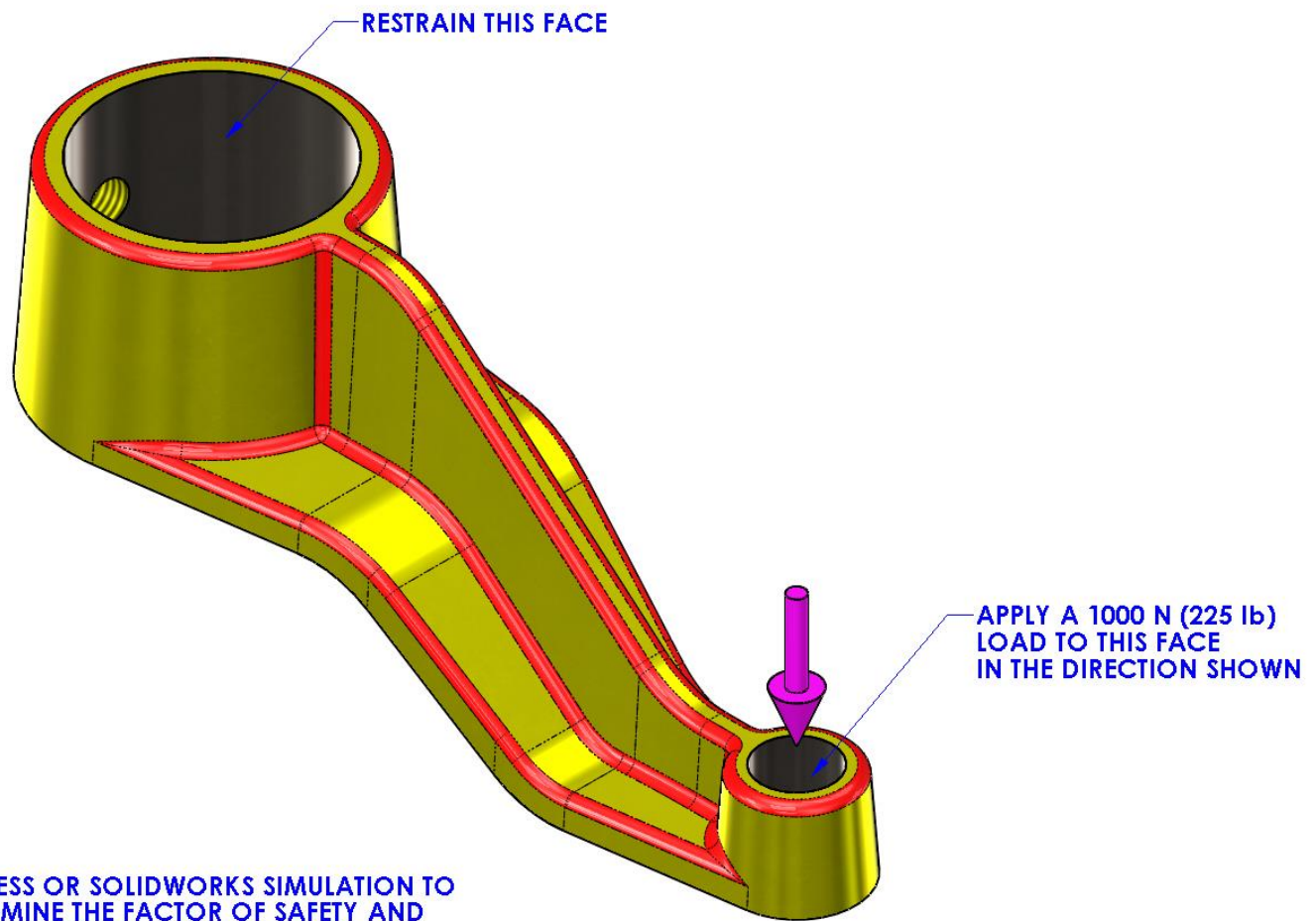
THIRD ANGLE PROJECTION



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DRAWN BY	NAME	DATE
MAS	MAS	1-15-09
MATERIAL		
6061-T6 (SS)		

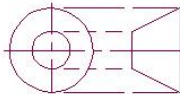
TITLE:			MODEL MANIA 2009	
SIZE	DWG. NO.	REV		
A	Model Mania 2009	1		
SCALE: 3:5	WEIGHT:	SHEET 1 OF 2		



**SIMULATION:**

1. USE SIMULATIONXPRESS OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY AND MAXIMUM DEFLECTION OF THE PART.
2. RECORD THE FACTOR OF SAFETY AND MAXIMUM DEFLECTION FOR FOR THE PART.

THIRD ANGLE PROJECTION

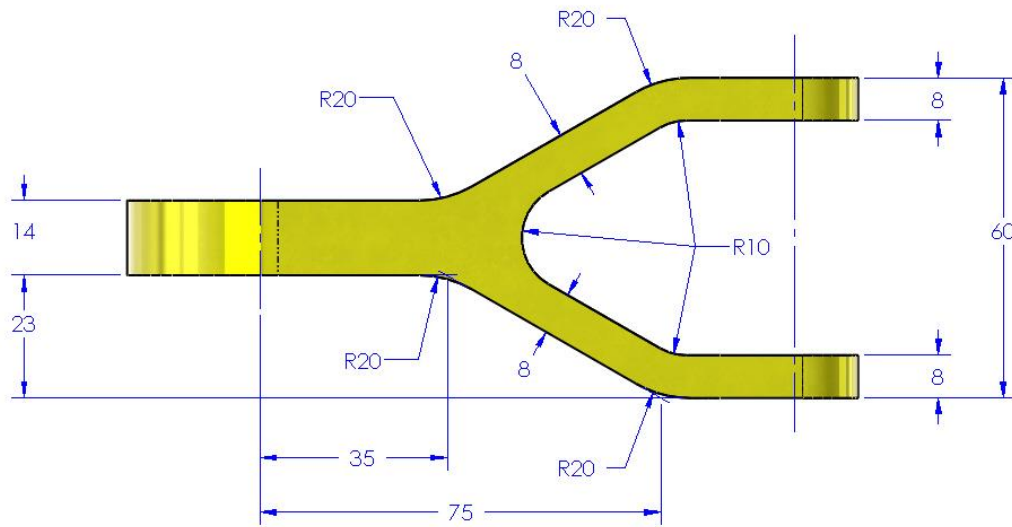


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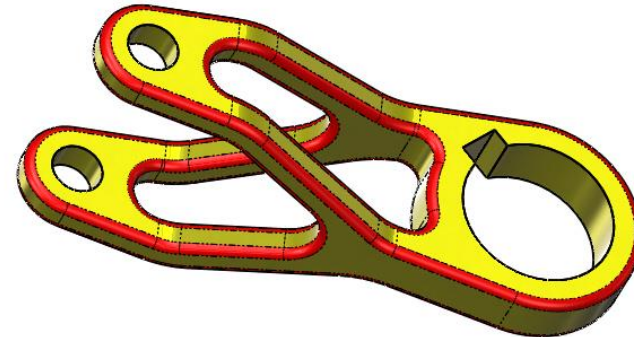
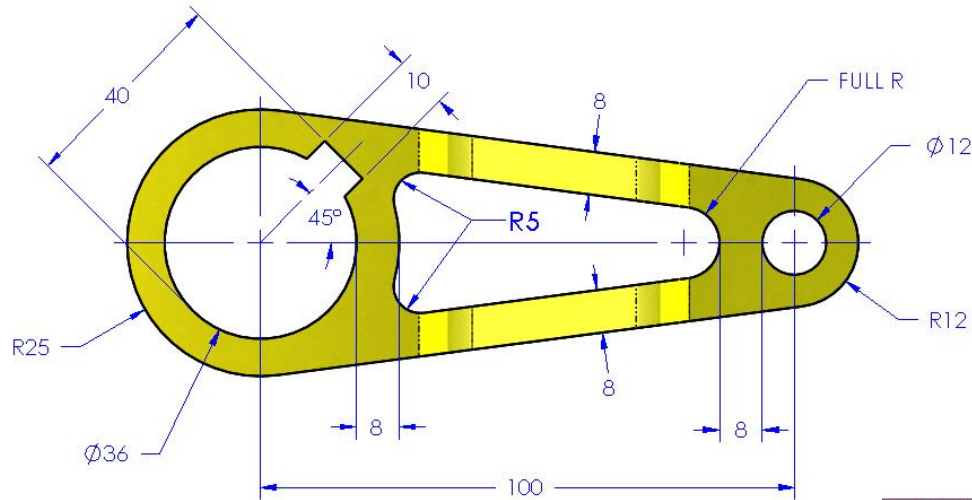
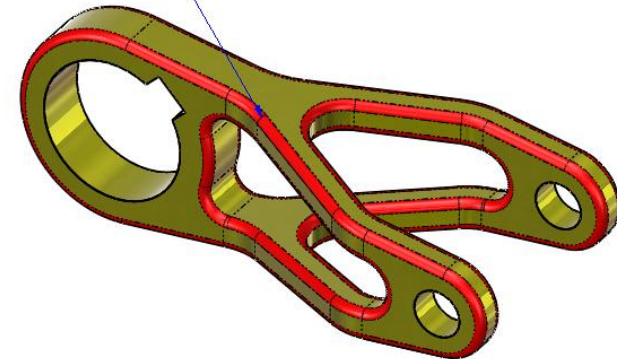
DRAWN BY	NAME	DATE
	MAS	1-15-09
MATERIAL		
6061-T6 (SS)		

TITLE:		MODEL MANIA 2009	
SIZE	DWG. NO.	REV	
<b>A</b>	<b>Model Mania 2009</b>	<b>1</b>	
SCALE: 1:1	WEIGHT:	SHEET 2 OF 2	





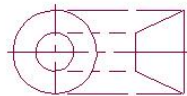
R2 TYPICAL



**NOTES:**

1. MATERIAL: AISI 1020
2. FILLETS COLORED RED - R2
3. RED 2 MM FILLETS REMOVED FROM ORTHOGRAPHIC VIEWS FOR CLARITY

THIRD ANGLE PROJECTION

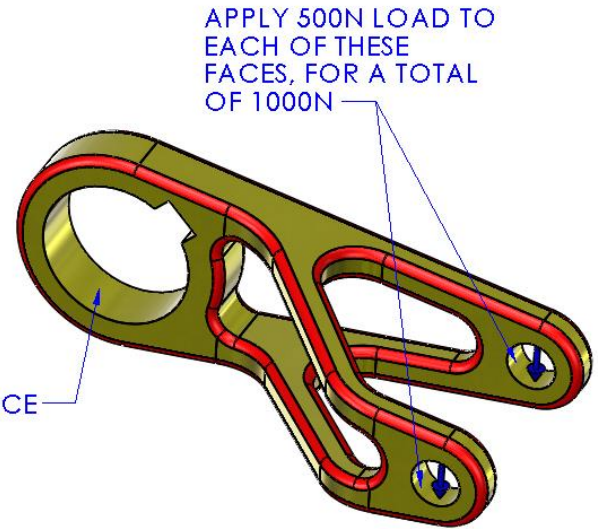
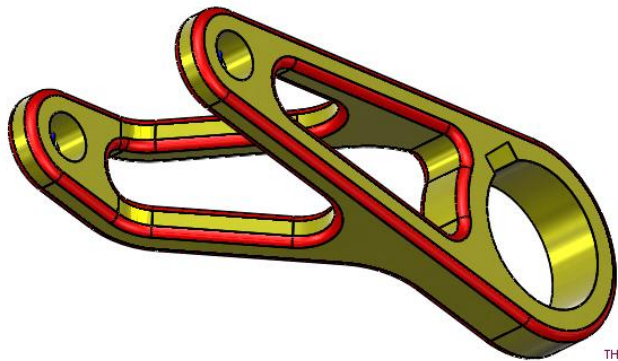
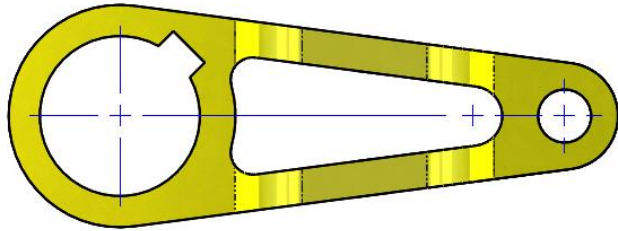
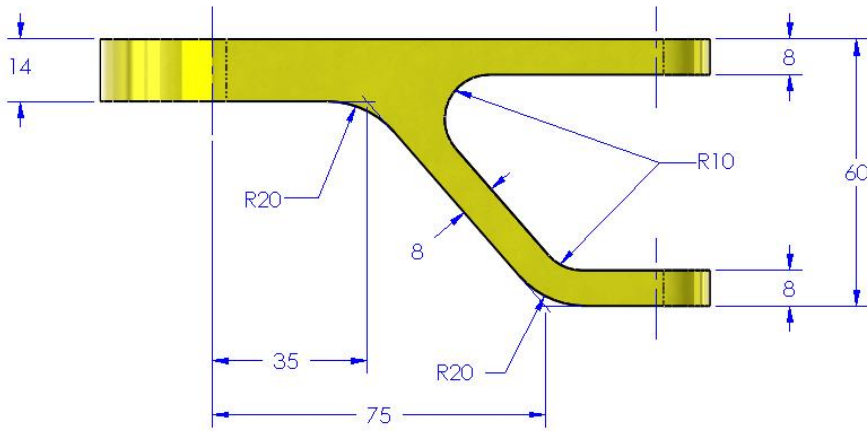


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DRAWN BY	NAME	DATE
MAS		1-15-09
MATERIAL		
AIS1 1020		

TITLE: MODEL MANIA 2010  
Phase 1

SIZE	DWG. NO.	REV
<b>A</b>	<b>SWING ARM</b>	<b>1</b>
SCALE: 4:5	WEIGHT:	SHEET 1 OF 2



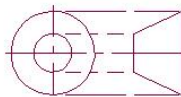
**SIMULATION:**

USE SIMULATIONXPRESS OR SOLIDWORKS SIMULATION TO ANALYZE AND CALCULATE THE FACTOR OF SAFETY AND MAXIMUM DEFLECTION OF THE PART.

**NOTES:**

1. MATERIAL: AISI 1020
2. FILLETS COLORED RED - R2
3. RED 2 MM FILLETS REMOVED FROM ORTHOGRAPHIC VIEWS FOR CLARITY

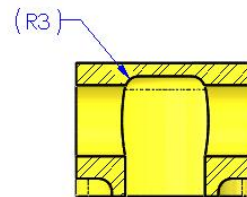
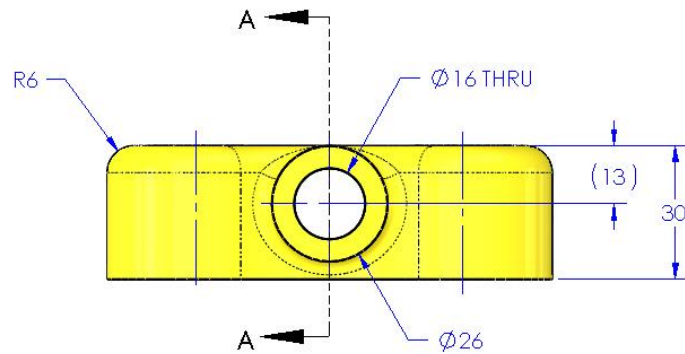
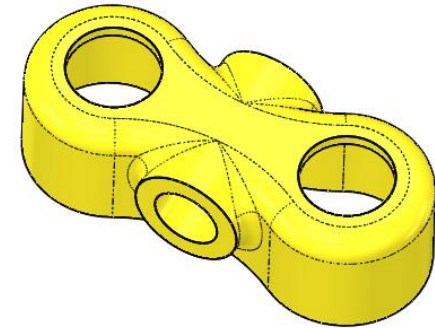
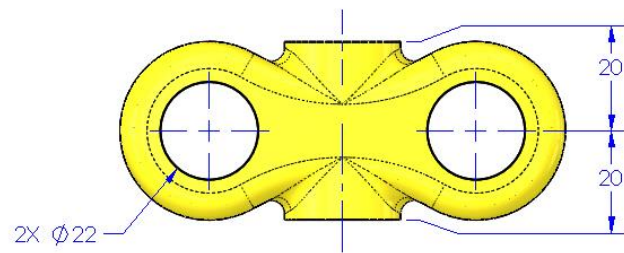
THIRD ANGLE PROJECTION



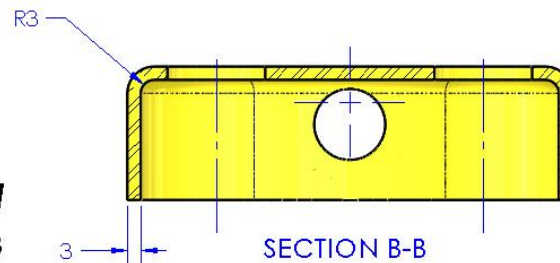
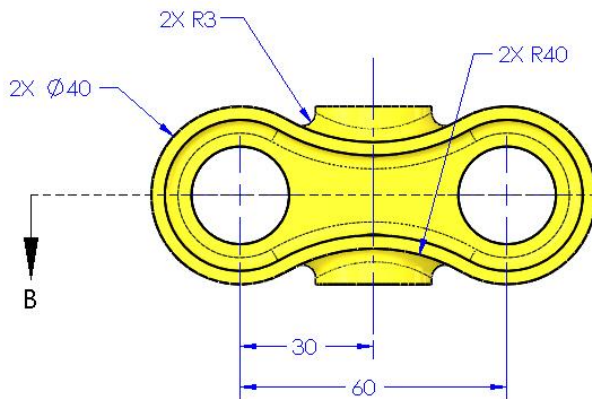
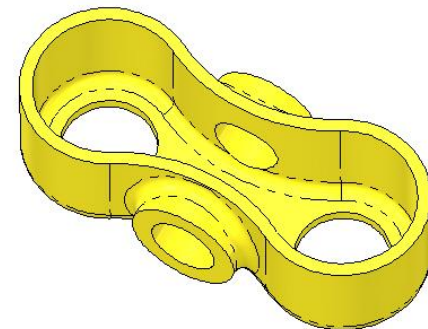
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DRAWN BY	NAME	DATE
MATERIAL	MAS	1-15-09

TITLE: MODEL MANIA 2010 Phase 2		SIZE: A	DWG. NO.	REV: 1
SCALE: 2:3		WEIGHT:		SHEET 2 OF 2



SECTION A-A



SECTION B-B

- NOTES:**  
 1. ALL DIMENSIONS ARE IN MILLIMETERS  
 2. MATERIAL: AISI 1020

THIRD ANGLE PROJECTION



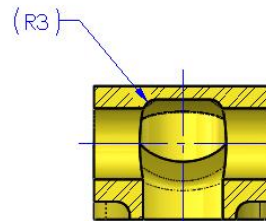
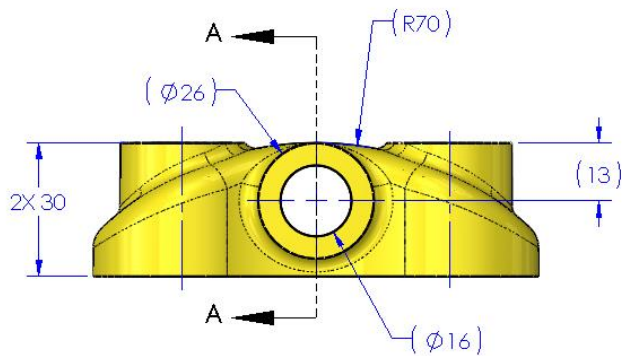
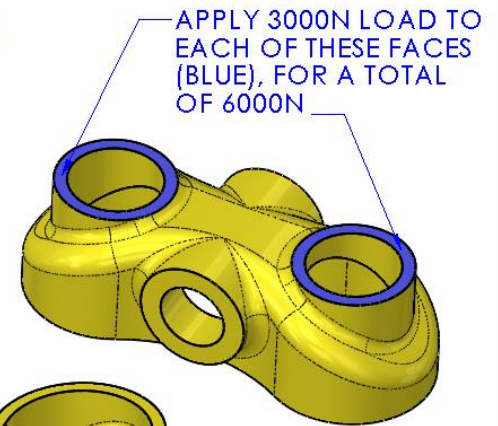
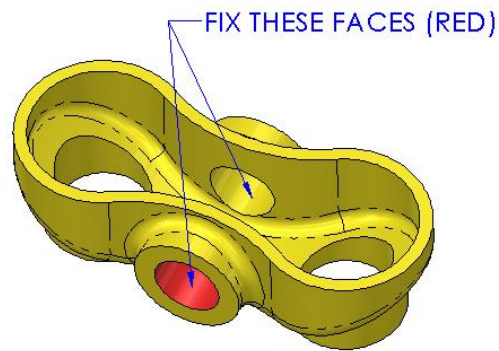
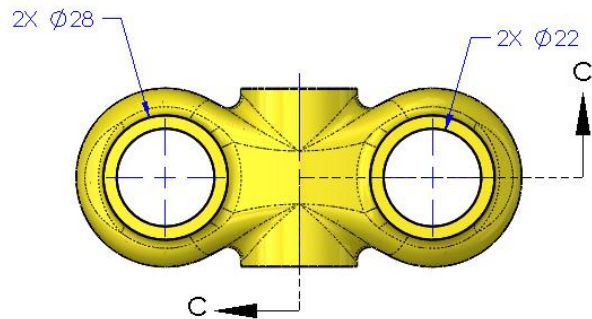
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DRAWN BY	NAME	DATE
MATERIAL	AISI 1020	

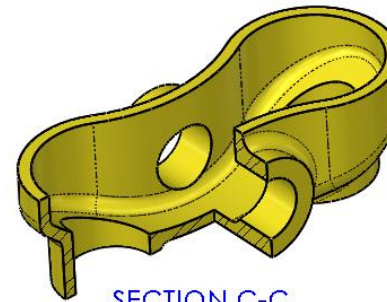
TITLE: **MODEL MANIA 2011**  
**Phase 1**

SIZE	DWG. NO.	REV
<b>A</b>	<b>PIPE CONNECTOR</b>	<b>1</b>
SCALE: 2:3	WEIGHT:	SHEET 1 OF 2

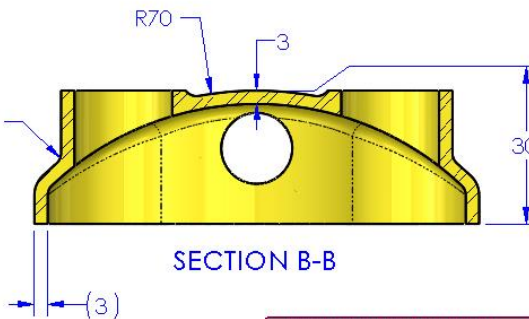
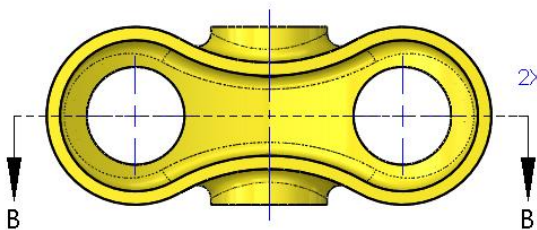




SECTION A-A



SECTION C-C



SECTION B-B

**SIMULATION:**

1. USE SIMULATIONXPRESS OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY OF THE PART.
2. RECORD THE FACTOR OF SAFETY FOR FOR THE PART IN THE MODEL MANIA REGISTRATION PROGRAM.

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS
2. MATERIAL: AISI 1020

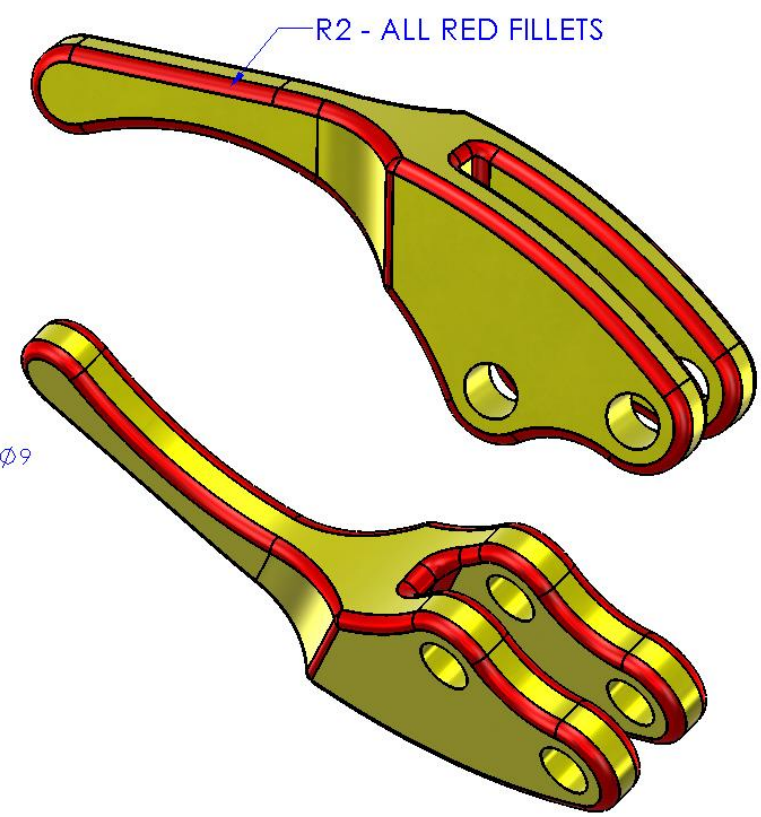
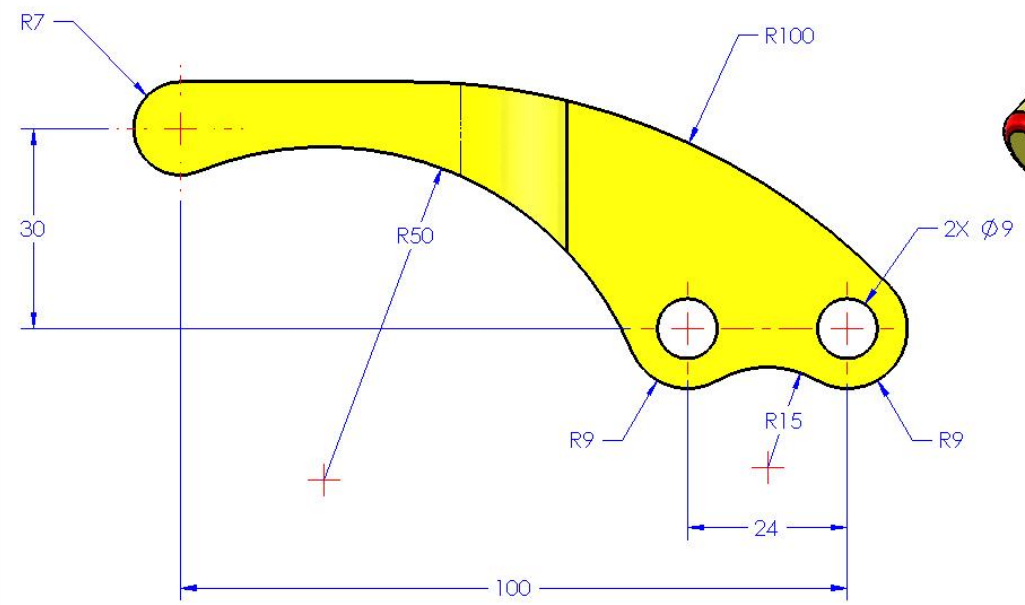
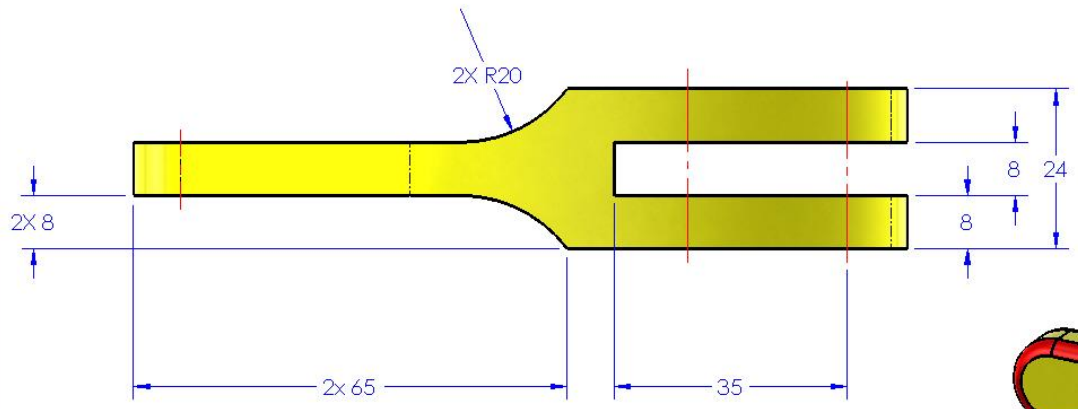
THIRD ANGLE PROJECTION



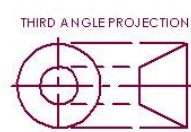
**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLIDWORKS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLIDWORKS IS PROHIBITED.

DRAWN BY	NAME	DATE
MATERIAL	MAS	1-5-11
AIS1 1020		

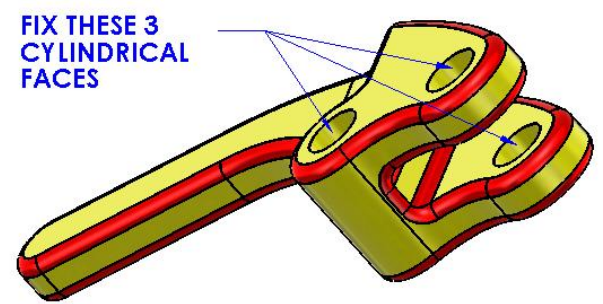
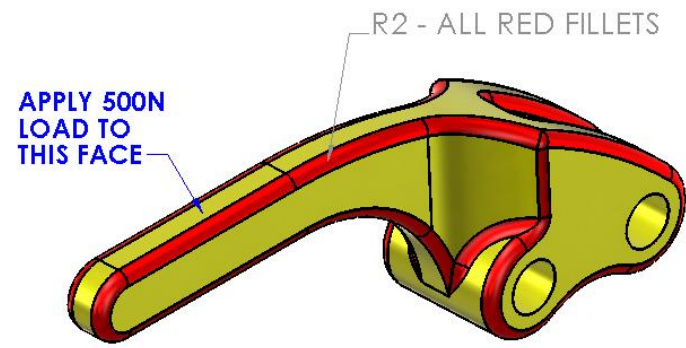
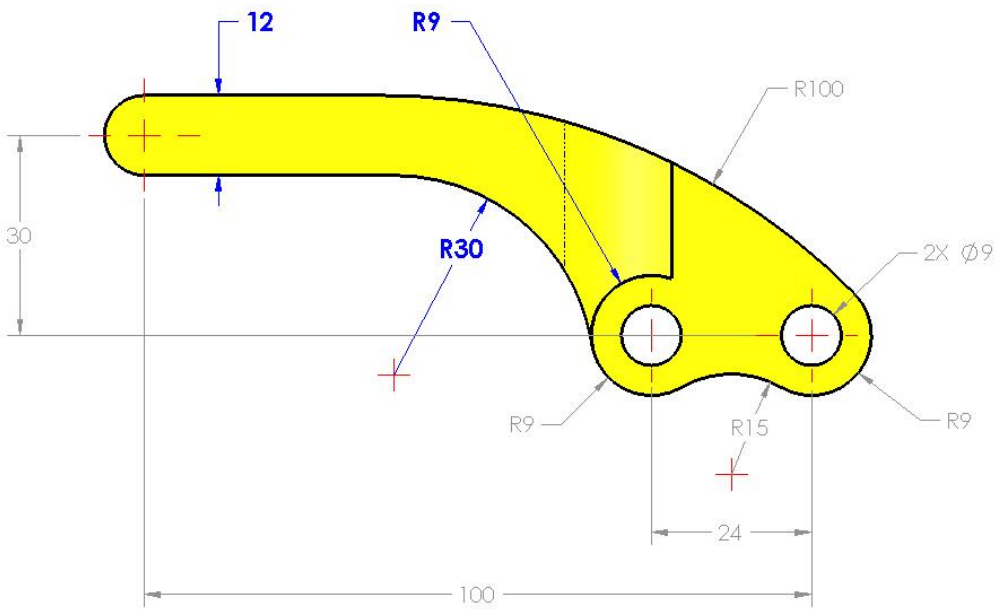
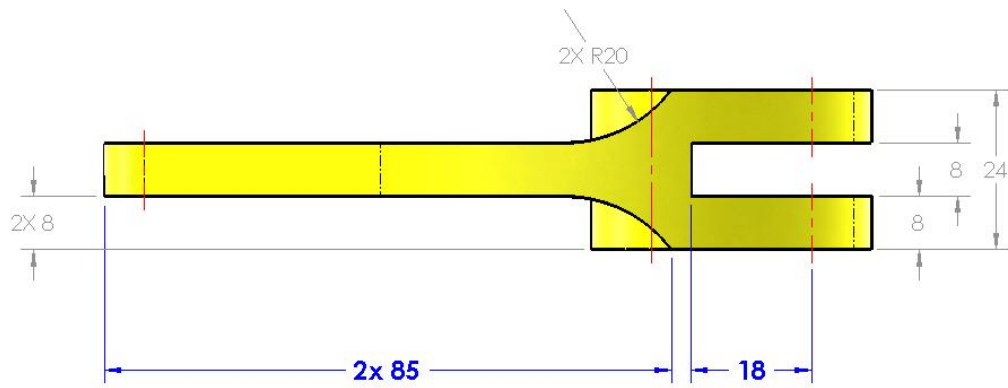
TITLE: MODEL MANIA 2011 Phase 2		REV
SIZE: <b>A</b>	DWG. NO.	<b>1</b>
SCALE: 2:3	WEIGHT:	SHEET 2 OF 2



- NOTES:**  
 1. ALL DIMENSIONS ARE IN MILLIMETERS  
 2. MATERIAL: PLAIN CARBON STEEL



<small>PROPRIETARY AND CONFIDENTIAL          THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLIDWORKS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLIDWORKS IS PROHIBITED.</small>			<b>TITLE:</b> MODEL MANIA 2012 Phase 1		
NAME DATE	SIZE <b>A</b>	DWG. NO. LEVER	REV <b>1</b>		
DRAWN BY: MAS	1-26-12	SCALE: 1:1	WEIGHT:	SHEET 1 OF 1	
MATERIAL: Plain Carbon Steel					



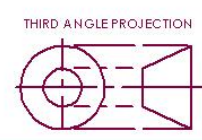
**PHASE 2 NOTES:**

1. BLUE DIMENSIONS REPRESENT CHANGES.
2. GREY DIMENSION HAVE NOT CHANGED FROM PHASE 1.

**SIMULATION:**

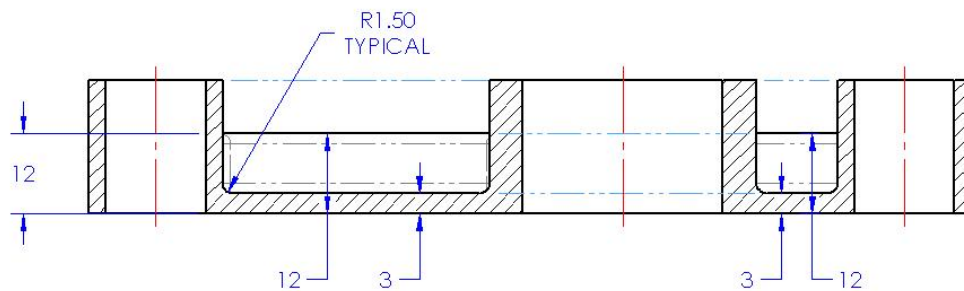
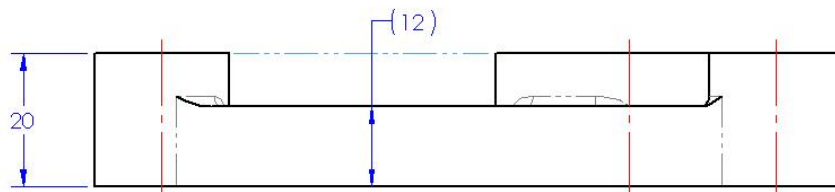
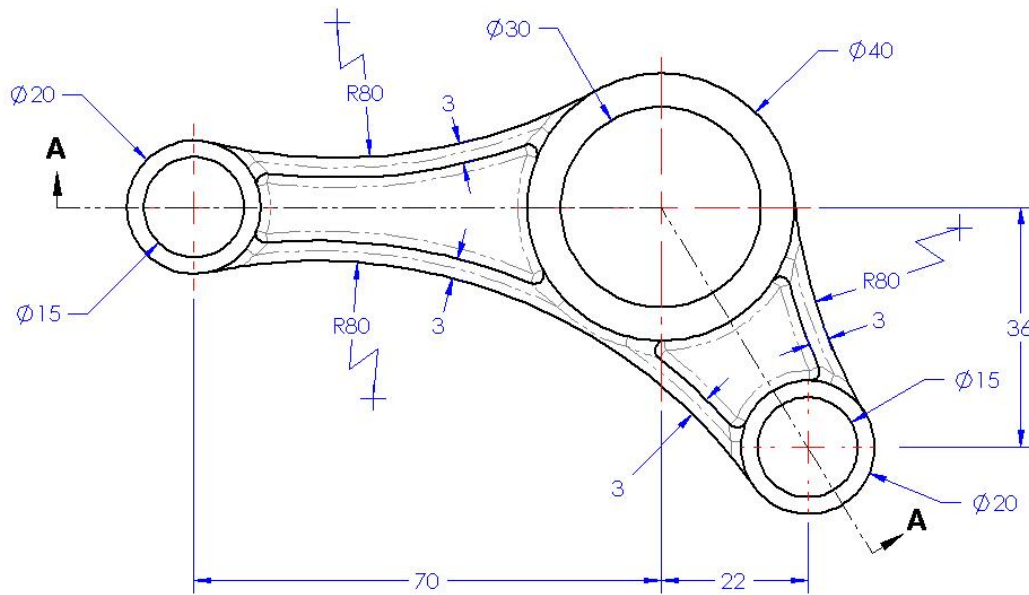
1. USE SIMULATIONXPRESS OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY OF THE PART.
2. RECORD THE FACTOR OF SAFETY FOR FOR THE PART IN THE MODEL MANIA REGISTRATION PROGRAM.

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS
  2. MATERIAL: PLAIN CARBON STEEL

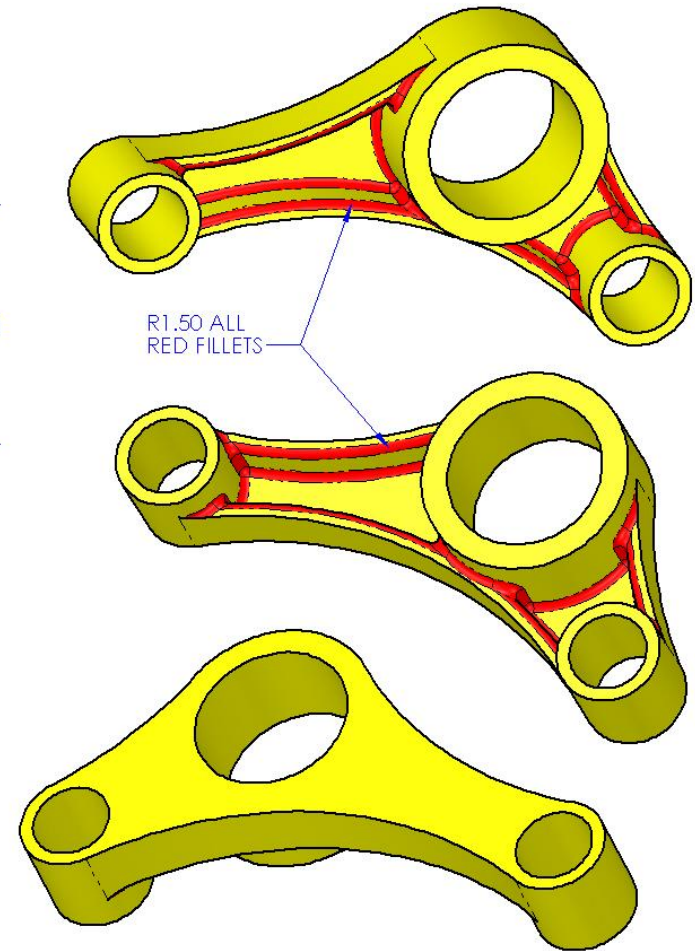


<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLIDWORKS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLIDWORKS IS PROHIBITED.</small>			<b>TITLE:</b> MODEL MANIA 2012 Phase 2		
<small>NAME</small> MAS	<small>DATE</small> 1-26-12	<small>SIZE</small> <b>A</b>	<small>DWG. NO.</small> LEVER	<small>REV</small> <b>1</b>	
<small>MATERIAL:</small> Plain Carbon Steel		<small>SCALE:</small> 1:1	SHEET 1 OF 1		





**SECTION A-A**



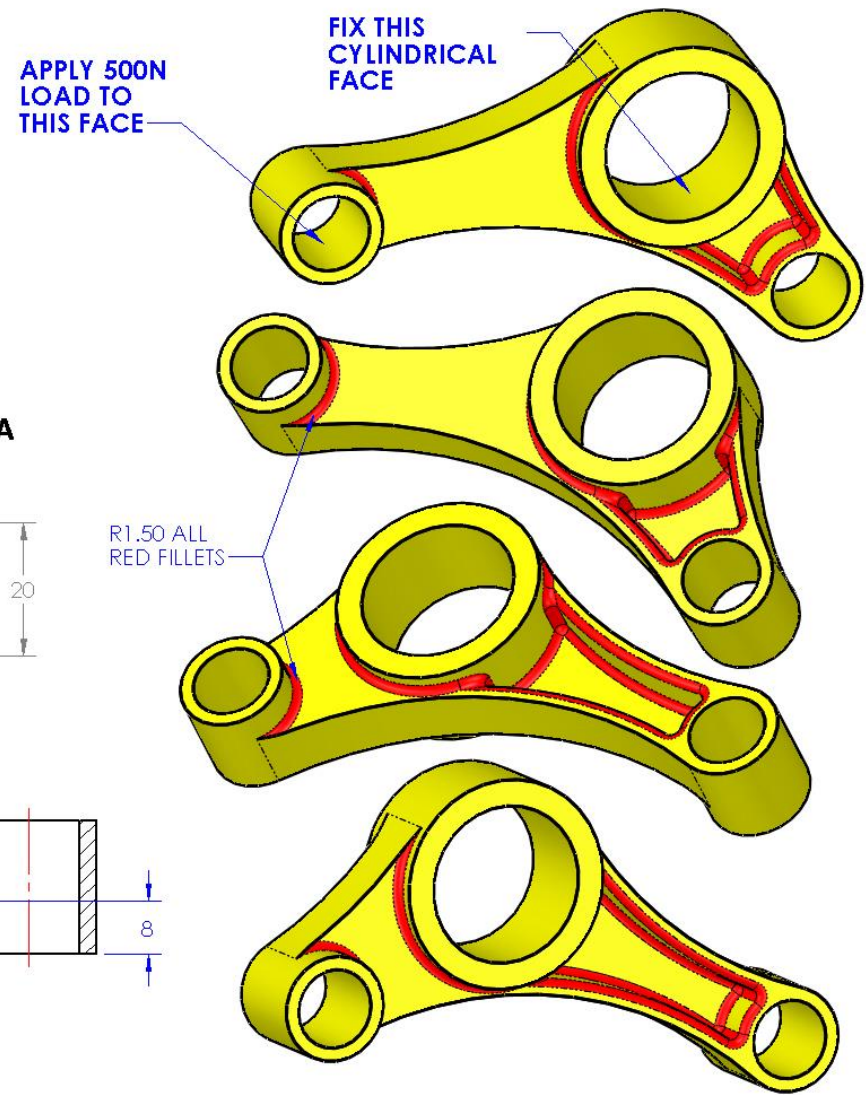
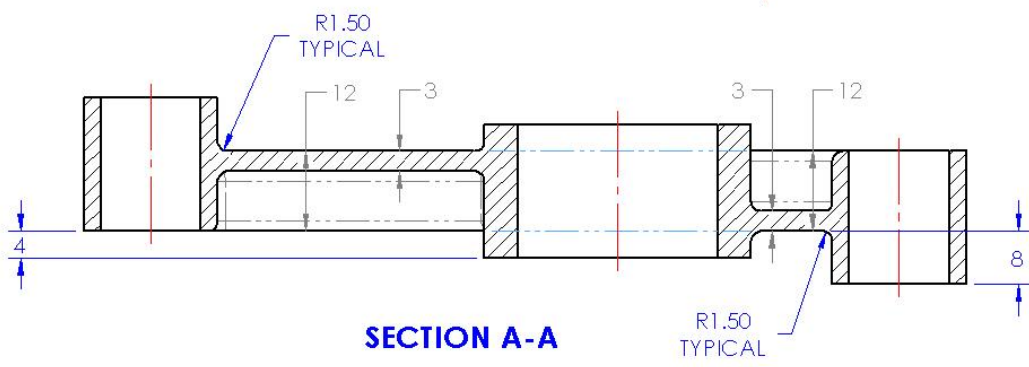
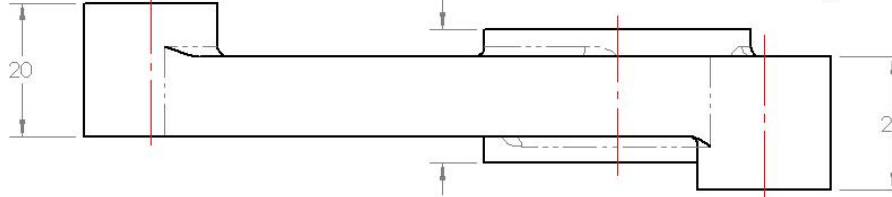
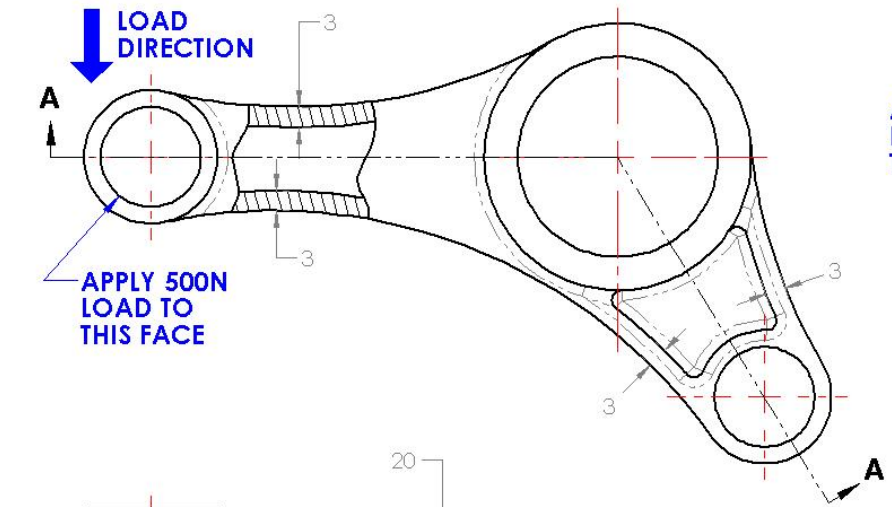
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS
  2. MATERIAL: PLAIN CARBON STEEL



PROPRIETARY AND CONFIDENTIAL	
THIS INFORMATION CONTAINS THE DESIGN AND THE PROPERTY OF THE DRAWING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE DRAWING ENGINEER IS PROHIBITED.	
NAME	DATE
DRAWN BY: IRAS	12-30-12
MATERIAL: Plain Carbon Steel	SCALE: 1:1

**MODEL MANIA 2013**  
**Phase 1**

WEIGHT: SHEET 1 OF 1



**PHASE 2 NOTES:**

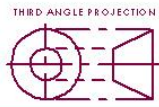
1. BLUE DIMENSIONS REPRESENT CHANGES.
2. GREY DIMENSION ARE FOR REFERENCE AND HAVE NOT CHANGED FROM PHASE 1.

**SIMULATION:**

1. USE SimulationXpress OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY OF THE PART.
2. RECORD THE FACTOR OF SAFETY FOR FOR THE PART IN THE MODEL MANIA REGISTRATION PROGRAM.

**NOTES:**

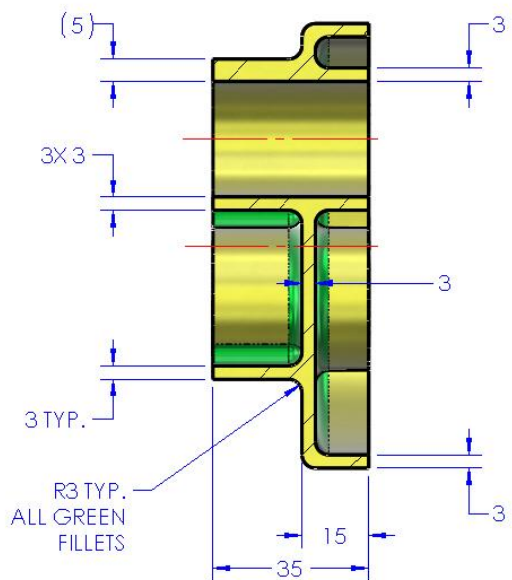
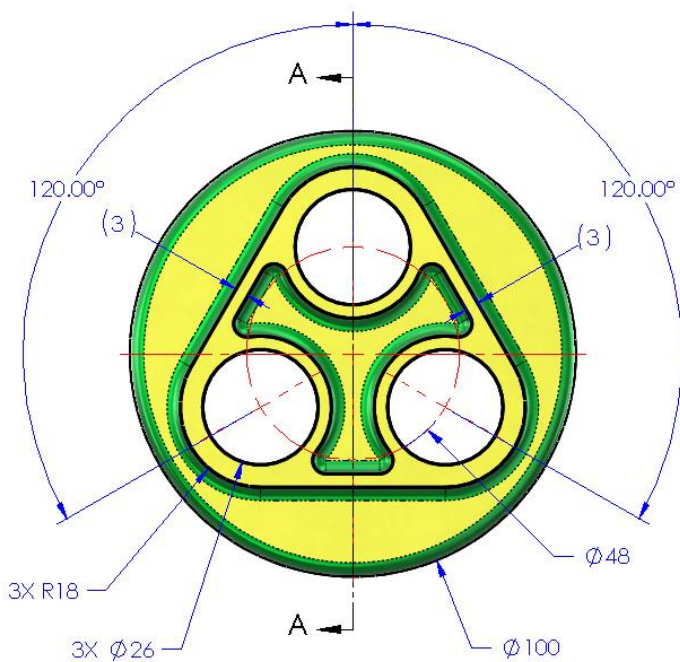
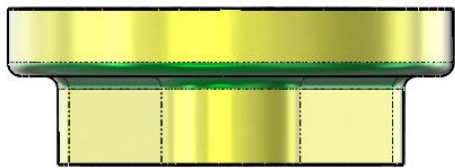
1. ALL DIMENSIONS ARE IN MILLIMETERS
2. MATERIAL: PLAIN CARBON STEEL



PROPRIETARY AND CONFIDENTIAL	
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NAME	DATE
DRAWN BY: MAS	12-30-12
MATERIAL: Plain Carbon Steel	SCALE: 1:1

**MODEL MANIA 2013**  
**Phase 2**





SECTION A-A

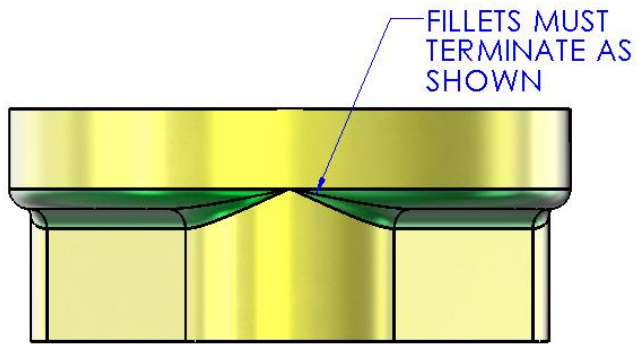
- NOTES:**  
 1. ALL DIMENSIONS ARE IN MILLIMETERS  
 2. MATERIAL: PLAIN CARBON STEEL



PROPRIETARY AND CONFIDENTIAL  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLEWORKS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLEWORKS IS PROHIBITED.

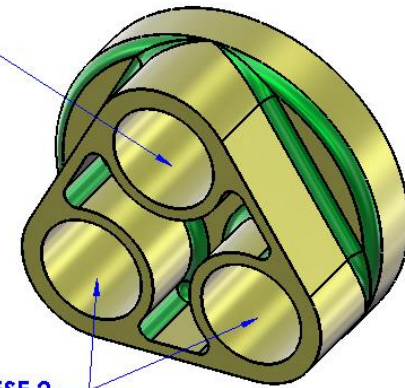
NAME	DATE
DRAWN BY: IRAS	1-7-14
MATERIAL: Plain Carbon Steel	

**MODEL MANIA 2014**  
**Phase 1**



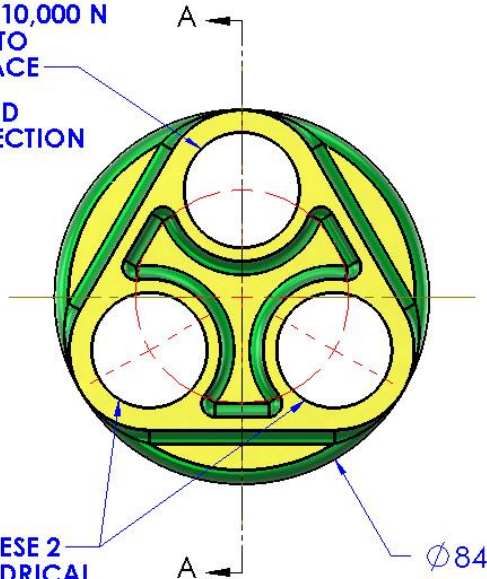
SCALE 1 : 1

APPLY 10,000 N  
LOAD TO  
THIS FACE  
↑  
LOAD  
DIRECTION



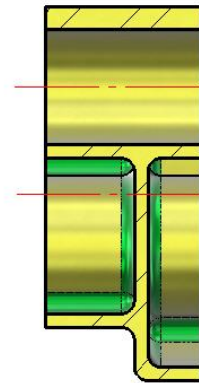
FIX THESE 2  
CYLINDRICAL  
FACES

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LOAD  
DIRECTION

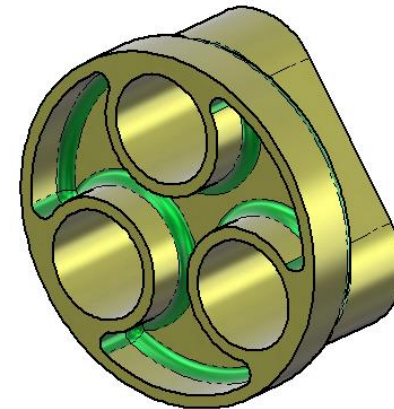


FIX THESE 2  
CYLINDRICAL  
FACES

Ø84



SECTION A-A



**PHASE 2 NOTES:**

1. CHANGE OUTSIDE DIAMETER TO 84 mm AS INDICATED ON DRAWING.

**SIMULATION:**

1. USE SimulationXpress OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY OF THE PART.
2. RECORD THE FACTOR OF SAFETY FOR FOR THE PART IN THE MODEL MANIA REGISTRATION PROGRAM.

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS
2. MATERIAL: PLAIN CARBON STEEL

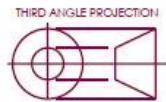
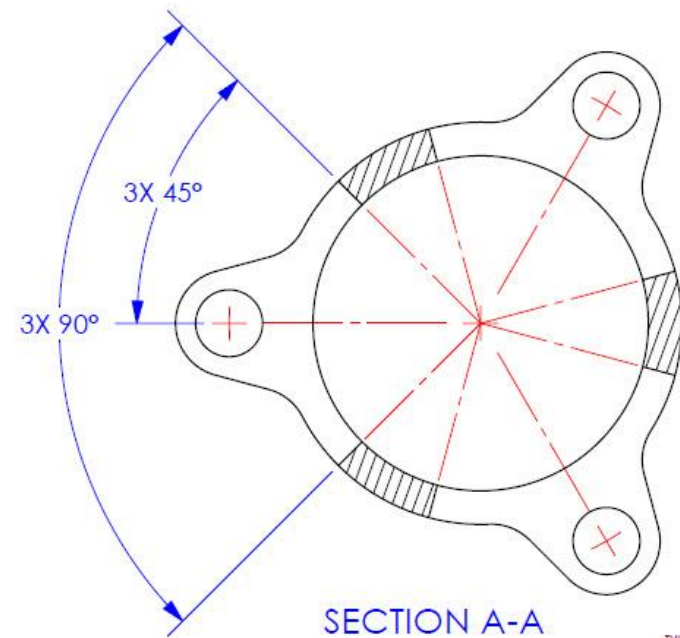
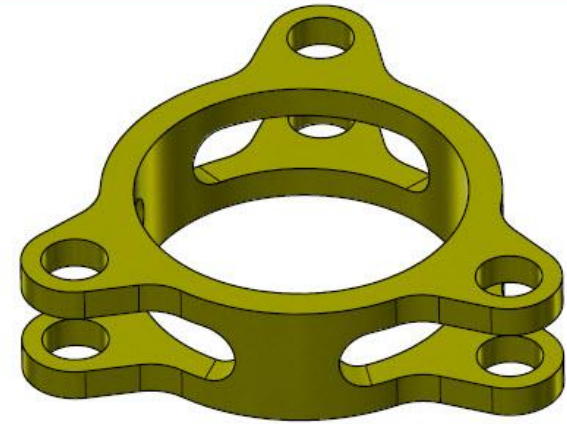
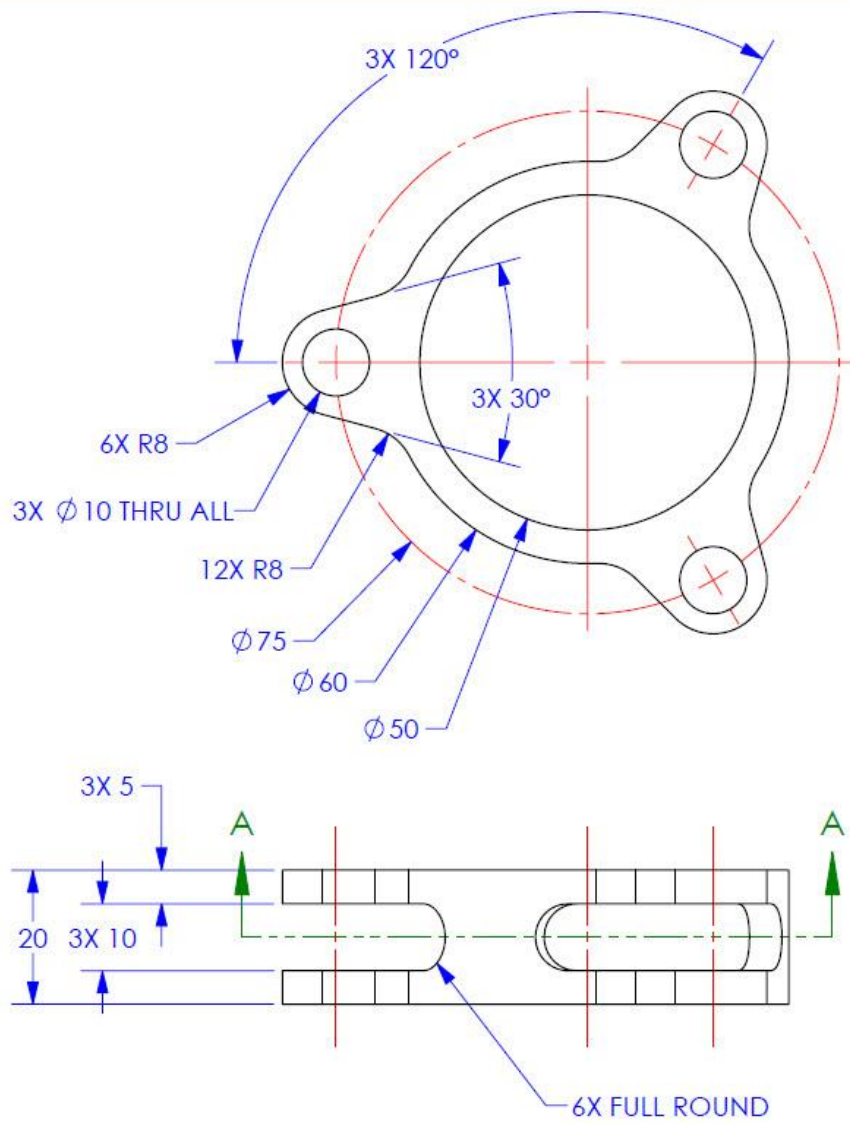
THIRD ANGLE PROJECTION



PROPRIETARY AND CONFIDENTIAL	
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DRAWN BY:	NAME DATE
MATERIAL:	Plain Carbon Steel 1-7-14

**MODEL MANIA 2014  
Phase 2**

SCALE: 2:3 WEIGHT: SHEET 1 OF 1



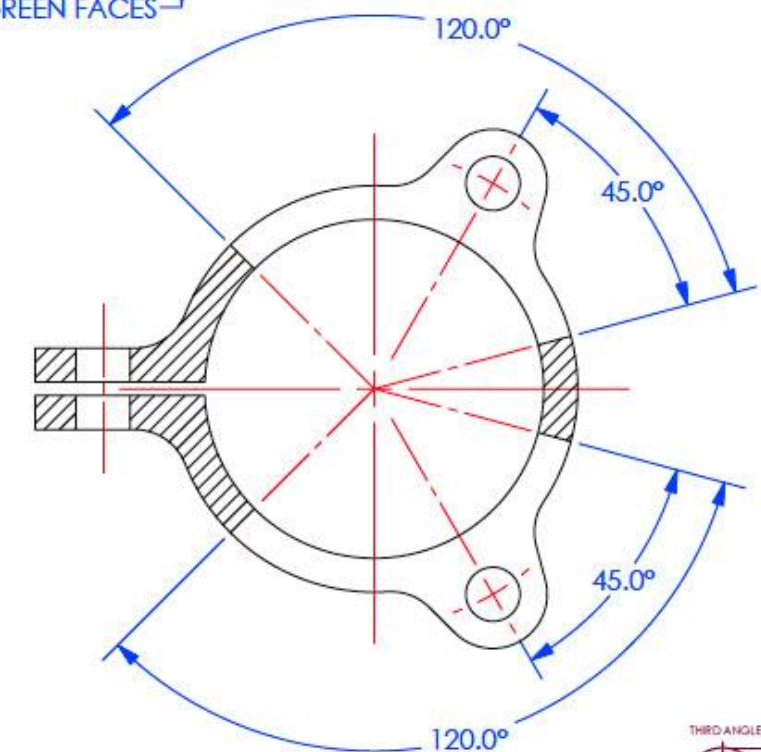
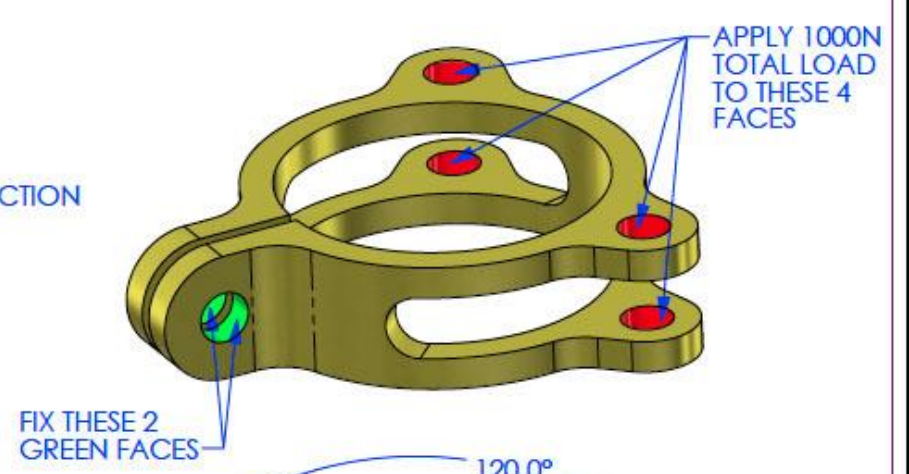
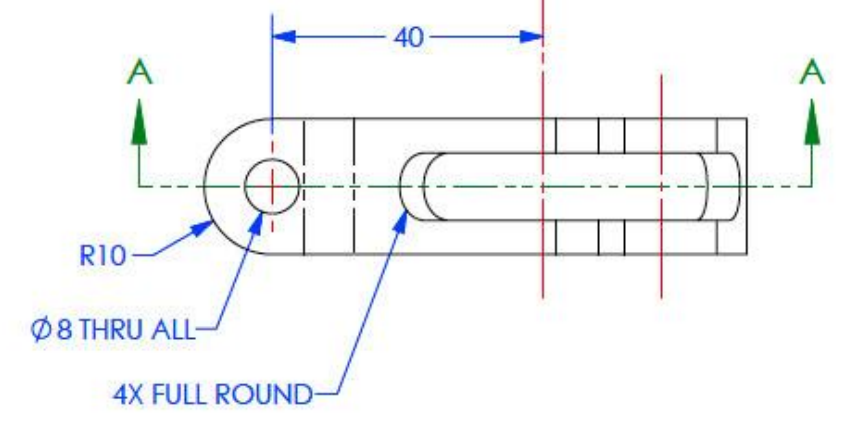
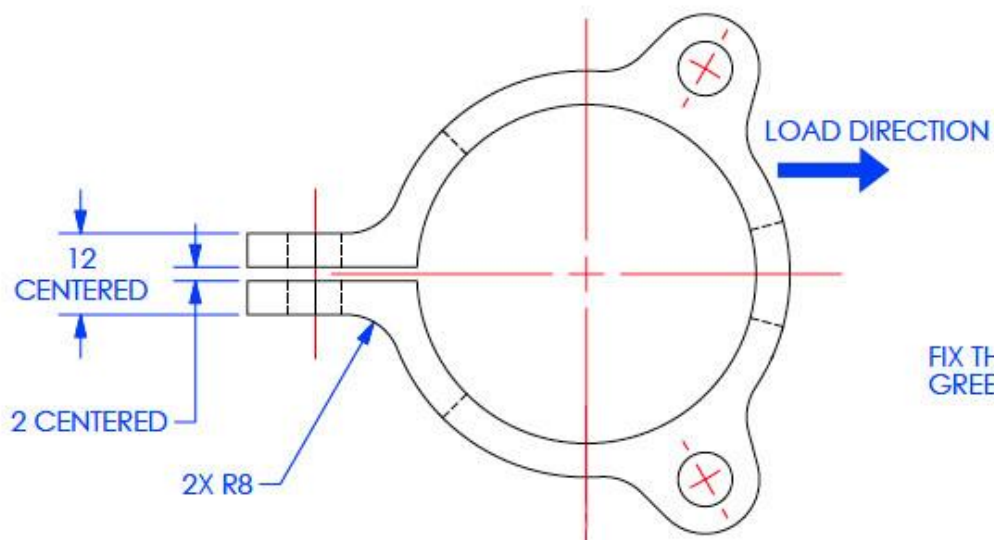
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS
2. MATERIAL: AISI 1020

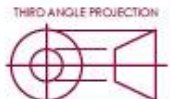
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLIDWORKS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLIDWORKS IS PROHIBITED.	
NAME	DATE
DRAWN BY: IMAS	1-7-14
MATERIAL: AISI 1020	SCALE: 1:1

**MODEL MANIA 2014**  
**Phase 1**





SECTION A-A



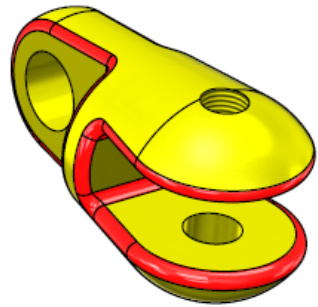
- SIMULATION:**
1. USE SimulationXpress OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY OF THE PART.
  2. RECORD THE FACTOR OF SAFETY FOR FOR THE PART IN THE MODEL MANIA REGISTRATION PROGRAM.

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS
  2. MATERIAL: AISI 1020

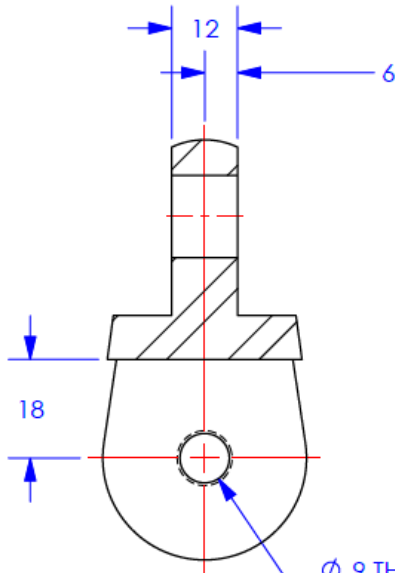
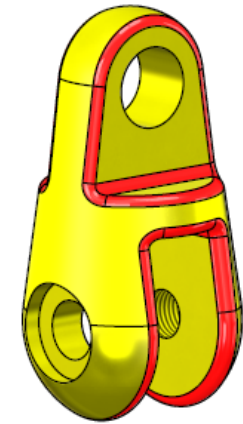
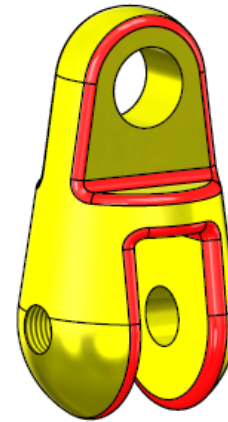
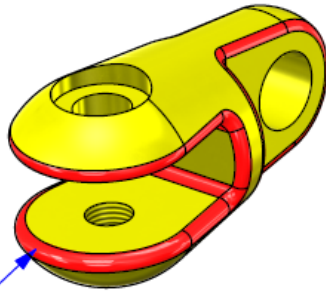
**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MODEL MANIA. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MODEL MANIA IS PROHIBITED.

DRAWN BY:	NAME	DATE
MATERIAL:	MAS	1-7-14
	N/A	SCALE: 1:1

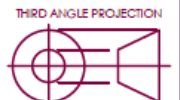
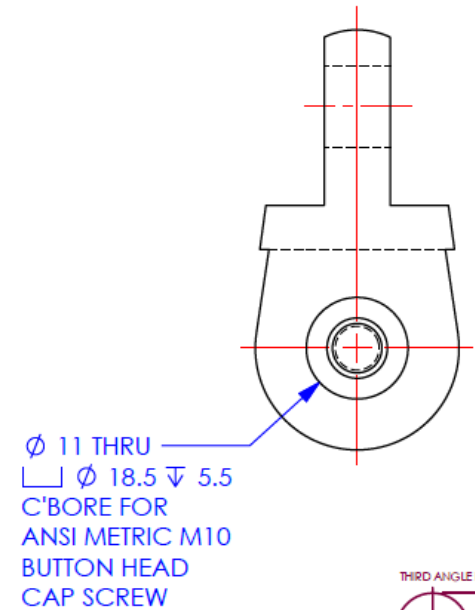
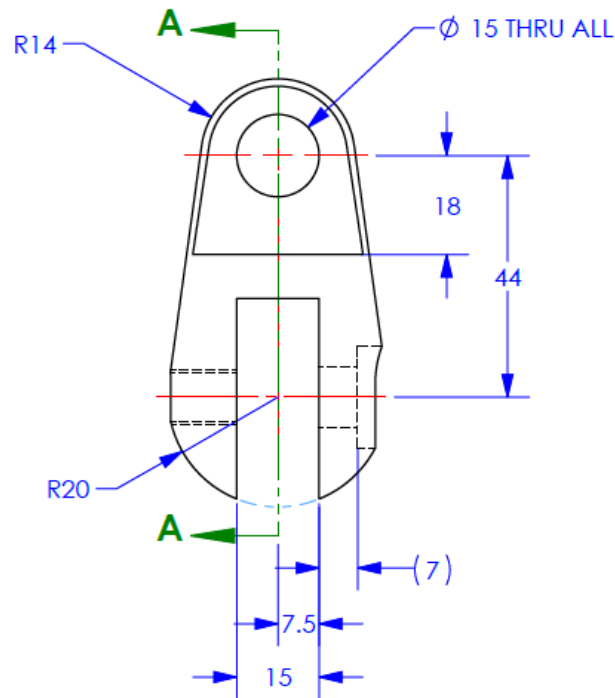
**MODEL MANIA 2014  
Phase 2**



R2 ALL RED FILLETS



**SECTION A-A**

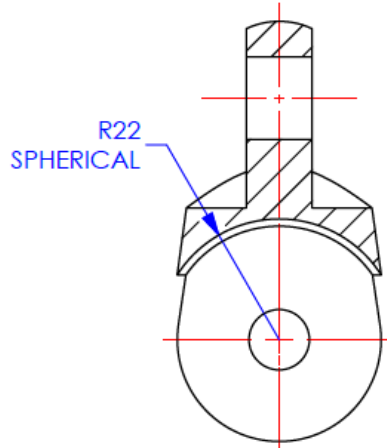
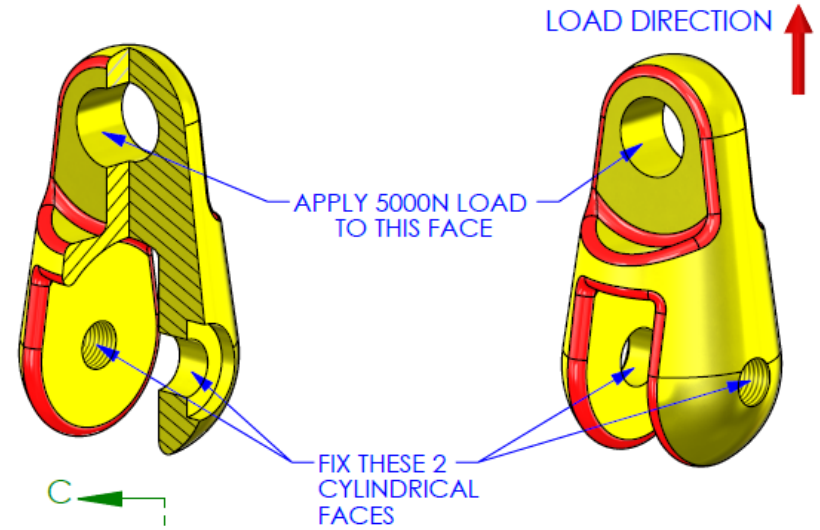
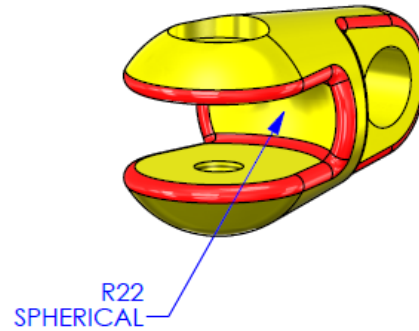
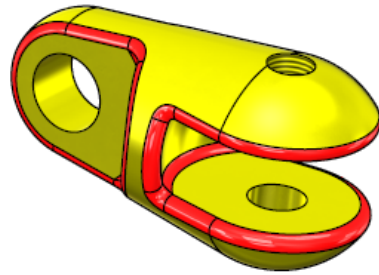


**NOTES:**

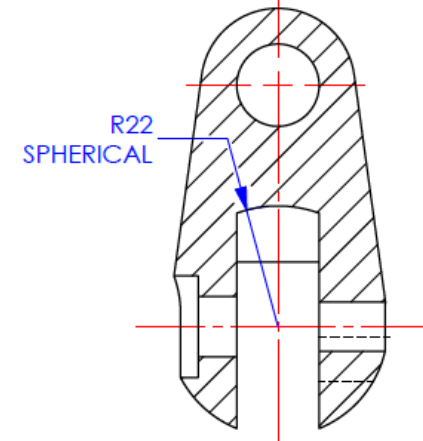
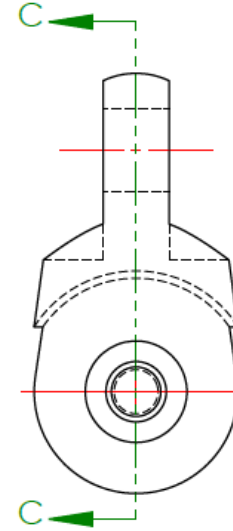
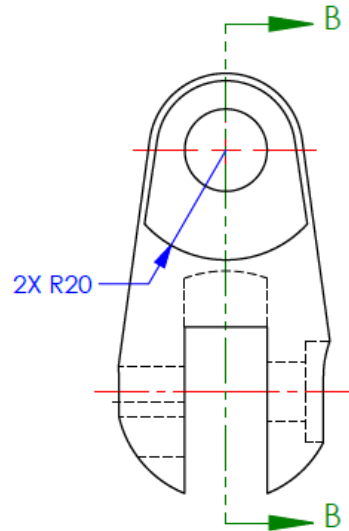
1. ALL DIMENSIONS ARE IN MILLIMETERS
2. MATERIAL: PLAIN CARBON STEEL
3. RED R2 FILLETS REMOVED FROM FROM ORTHOGRAPHIC VIEWS FOR CLARITY

<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLIDWORKS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLIDWORKS IS PROHIBITED.</small>		
NAME	DATE	
DRAWN BY: MAS	12-31-15	
MATERIAL: Plain Carbon Steel	SCALE: 4:5	

**MODEL MANIA 2016  
Phase 1**



**SECTION B-B**



**SECTION C-C**

**SIMULATION:**

1. USE SimulationXpress OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY OF THE PART.
2. RECORD THE FACTOR OF SAFETY FOR FOR THE PART IN THE MODEL MANIA REGISTRATION PROGRAM.

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS
2. MATERIAL: PLAIN CARBON STEEL
3. RED R2 FILLETS REMOVED FROM ORTHOGRAPHIC VIEWS FOR CLARITY
4. MAKE CHANGES AS INDICATED BY NEW DIMENSIONS.
5. ALL OTHER DIMENSIONS REMAIN THE SAME AS IN PHASE 1.

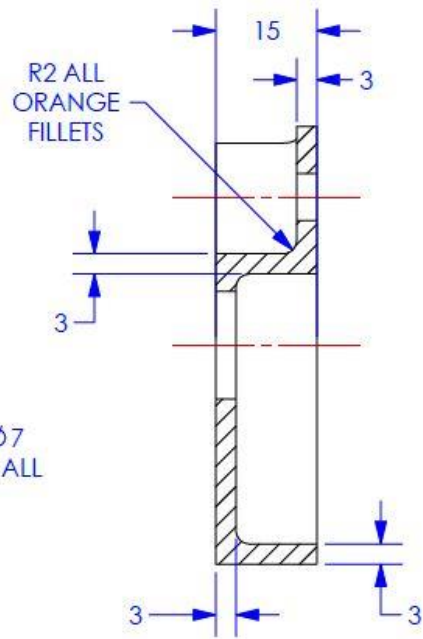
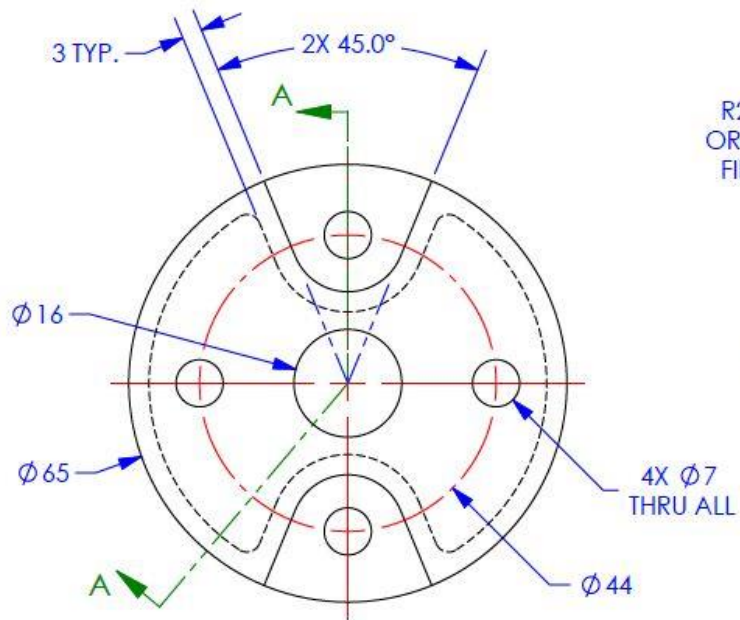
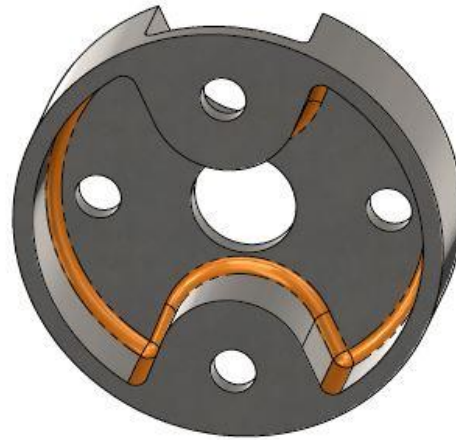
THIRD ANGLE PROJECTION



<b>PROPRIETARY AND CONFIDENTIAL</b>		
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NAME	DATE	
MAS	12-31-15	
DRAWN BY:		
MATERIAL:	Plain Carbon Steel	SCALE: 4:5

**MODEL MANIA 2016  
Phase 2**





SECTION A-A

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS
2. MATERIAL: PLAIN CARBON STEEL

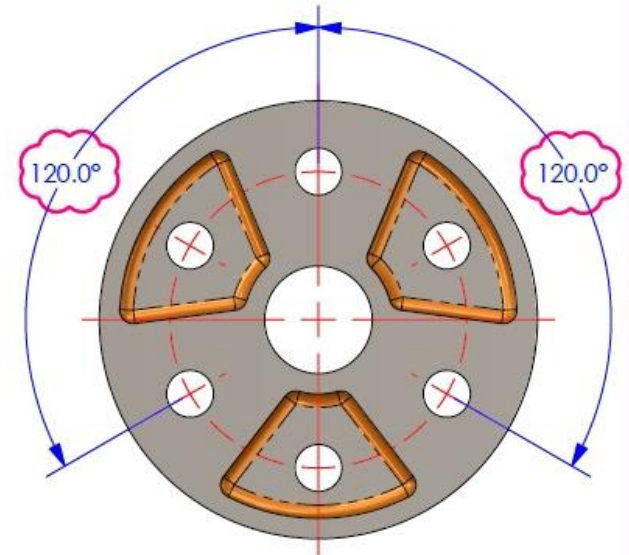
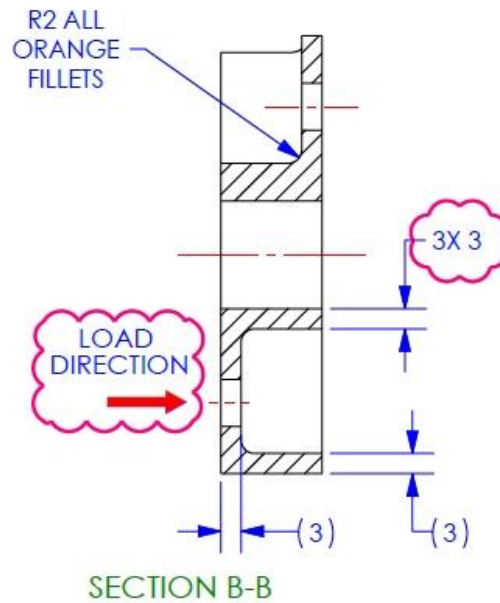
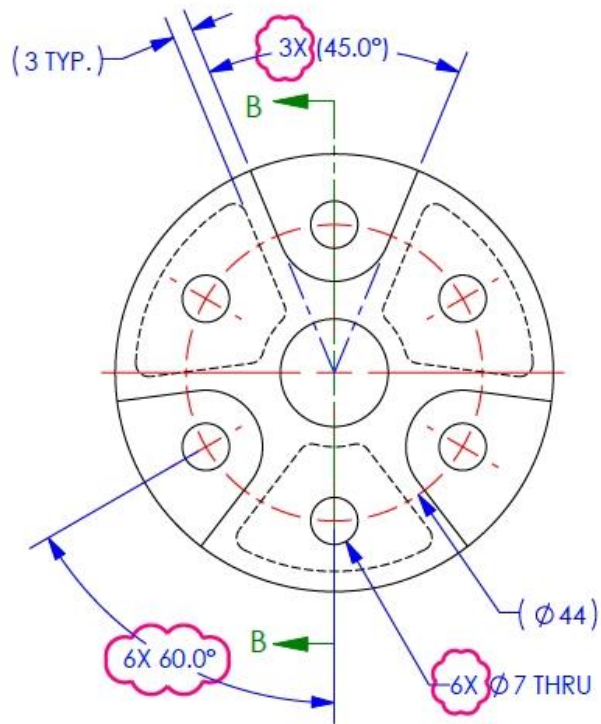
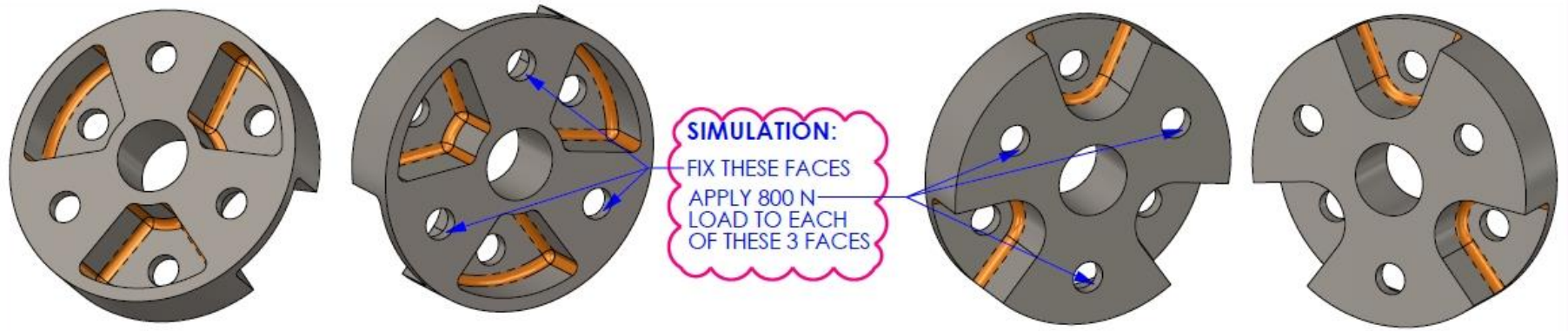
THIRD ANGLE PROJECTION



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 OF SOLIDWORKS IS PROHIBITED.

DRAWN BY: MAS 12-20-16

**MODEL MANIA® 2017**  
**Phase 1**



**PHASE 2:**

1. MAKE CHANGES AS INDICATED IN RED REVISION CLOUDS.
2. ALL OTHER DIMENSIONS REMAIN THE SAME AS IN PHASE 1.
3. USE SIMULATIONXPRESS OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY OF THE PART.
4. RECORD THE FACTOR OF SAFETY FOR FOR THE PART IN THE MODEL MANIA REGISTRATION PROGRAM.

**NOTES:**

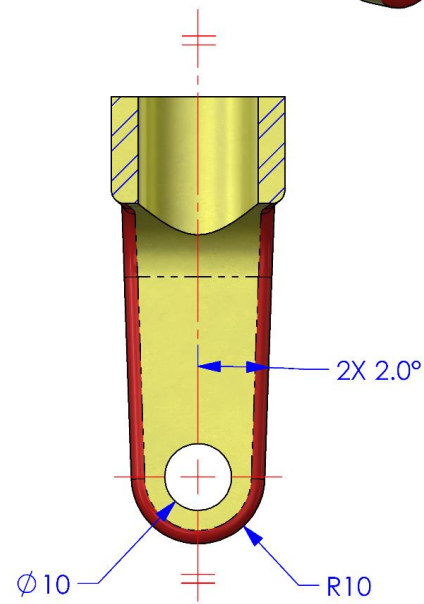
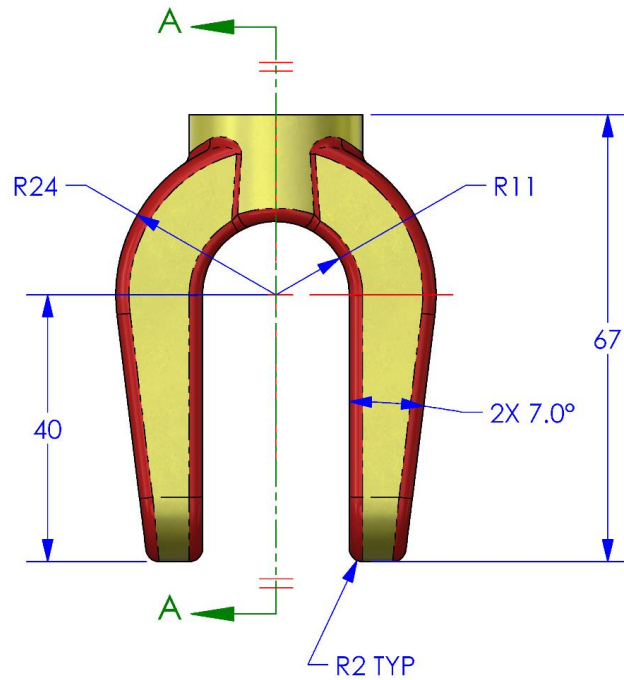
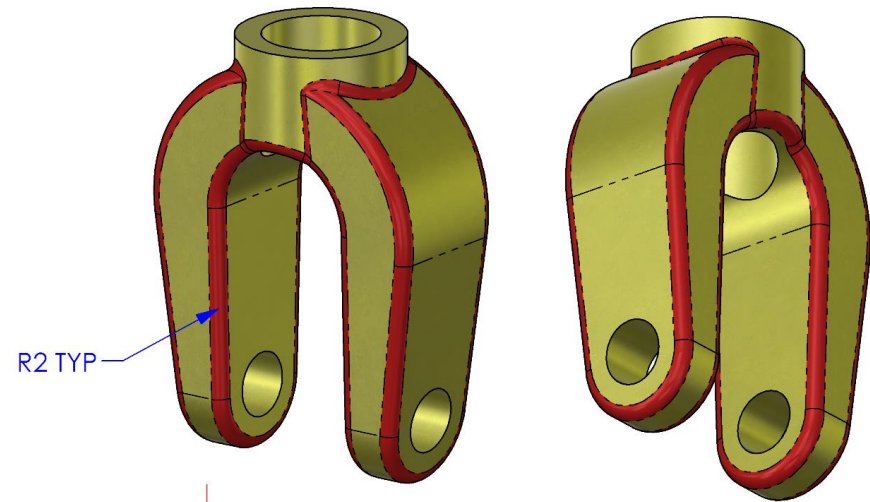
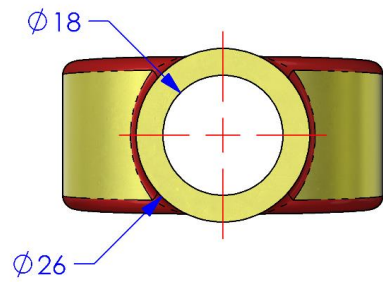
1. ALL DIMENSIONS ARE IN MILLIMETERS
2. MATERIAL: PLAIN CARBON STEEL



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 DRAWN BY: MAS 12-20-16

**MODEL MANIA® 2017**  
**Phase 2**

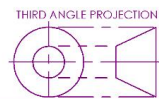




SECTION A-A

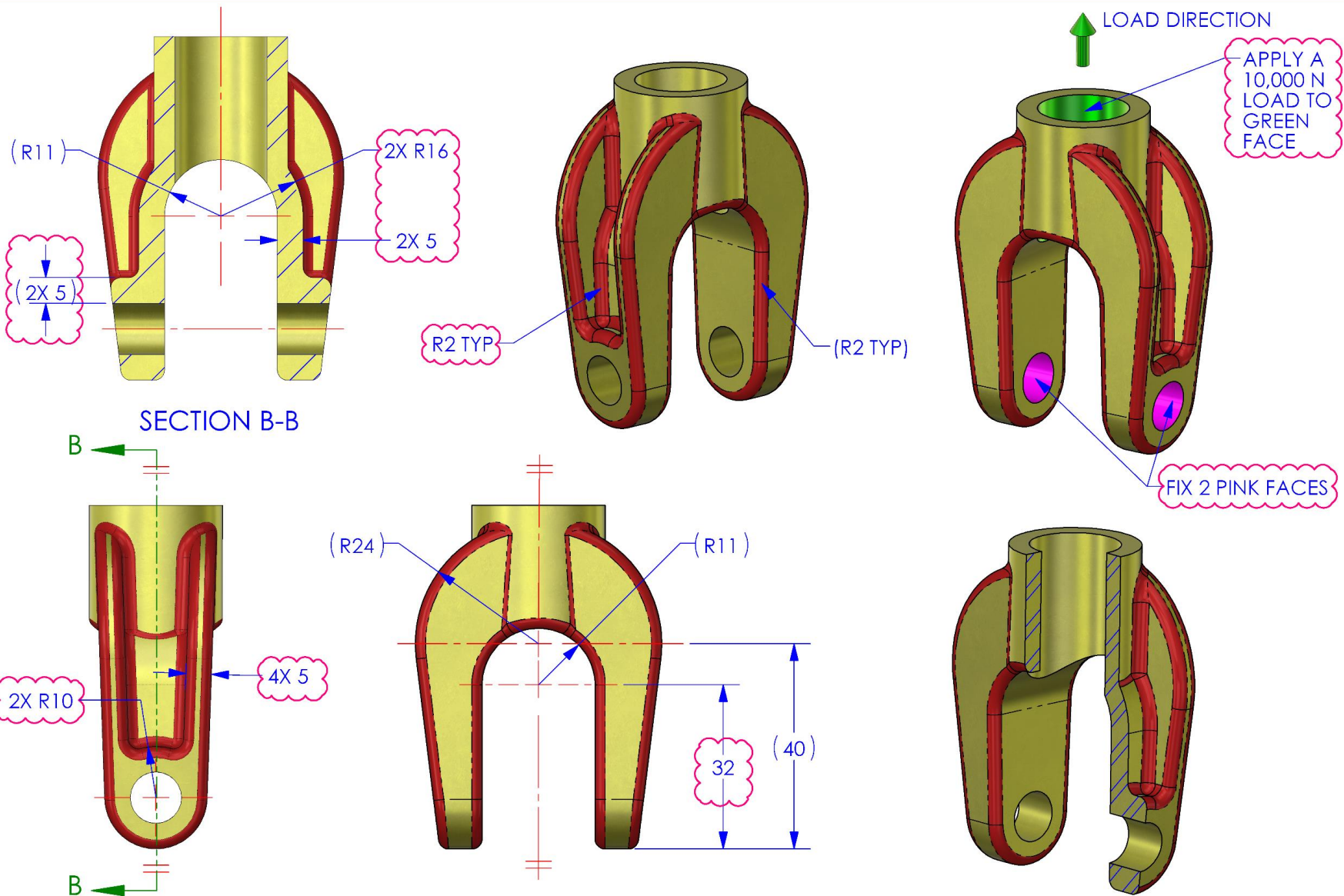
NOTES:

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2. MATERIAL: PLAIN CARBON STEEL



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**MODEL MANIA® 2018**  
**Phase 1**

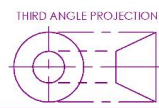


**PHASE 2:**

1. MAKE CHANGES AS INDICATED IN RED REVISION CLOUDS.
2. ALL OTHER DIMENSIONS REMAIN THE SAME AS IN PHASE 1.
3. USE SIMULATIONXPRESS OR SOLIDWORKS SIMULATION TO ANALYZE AND DETERMINE THE FACTOR OF SAFETY OF THE PART.
4. RECORD THE FACTOR OF SAFETY FOR FOR THE PART IN THE MODEL MANIA REGISTRATION PROGRAM.

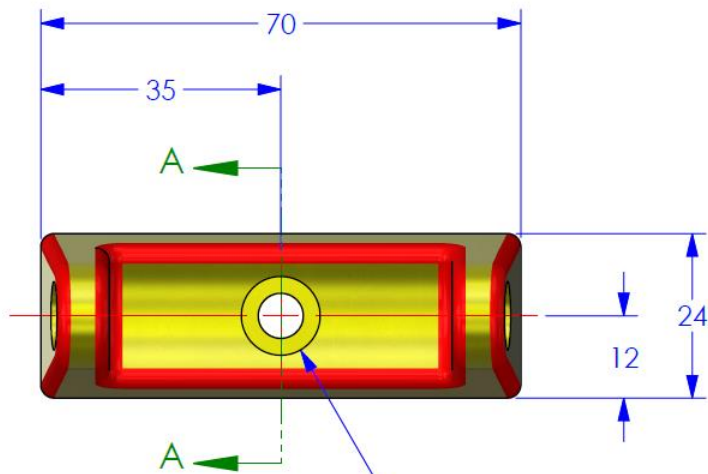
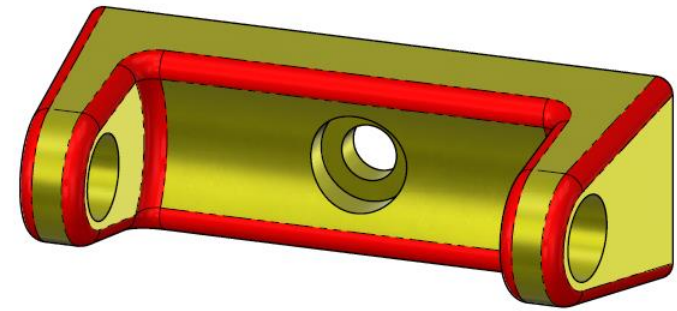
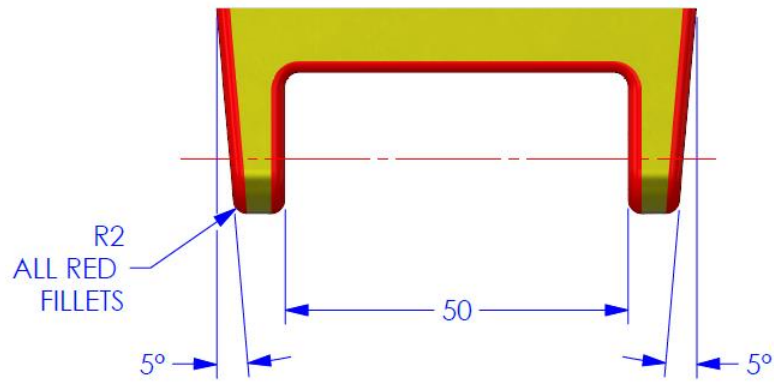
**NOTES:**

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2. MATERIAL: PLAIN CARBON STEEL

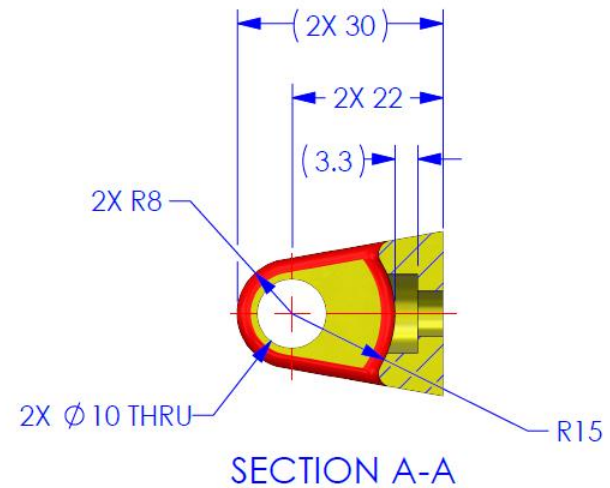


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**MODEL MANIA® 2018**  
**Phase 2**

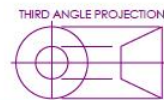


Ø 6.6 THRU ALL  
 □ Ø 11.5 ▽ 3.3  
 (CBORE FOR M6 SOCKET  
 BUTTON HEAD CAP SCREW)



NOTES:

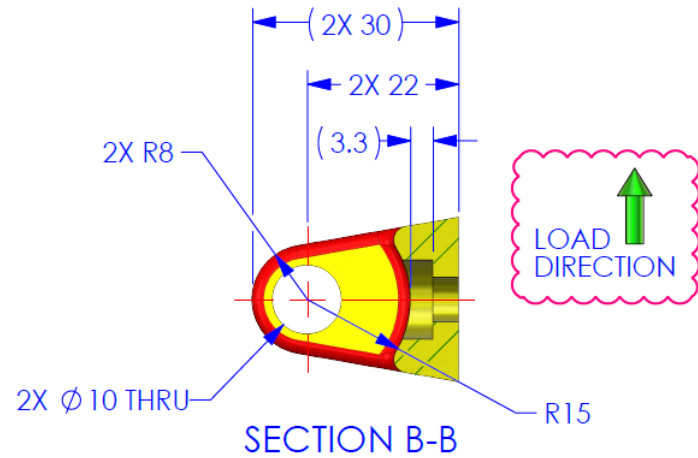
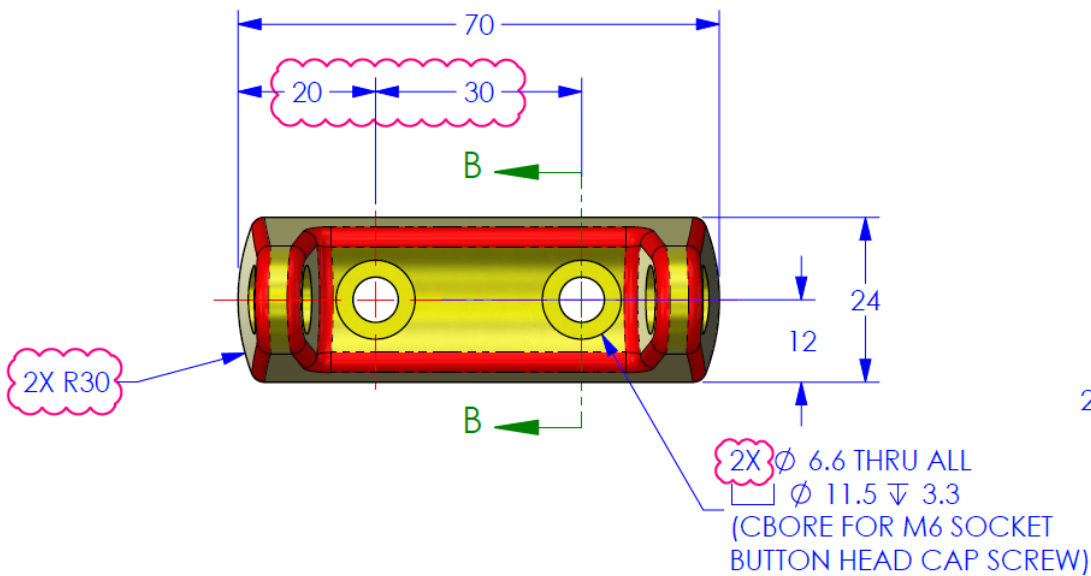
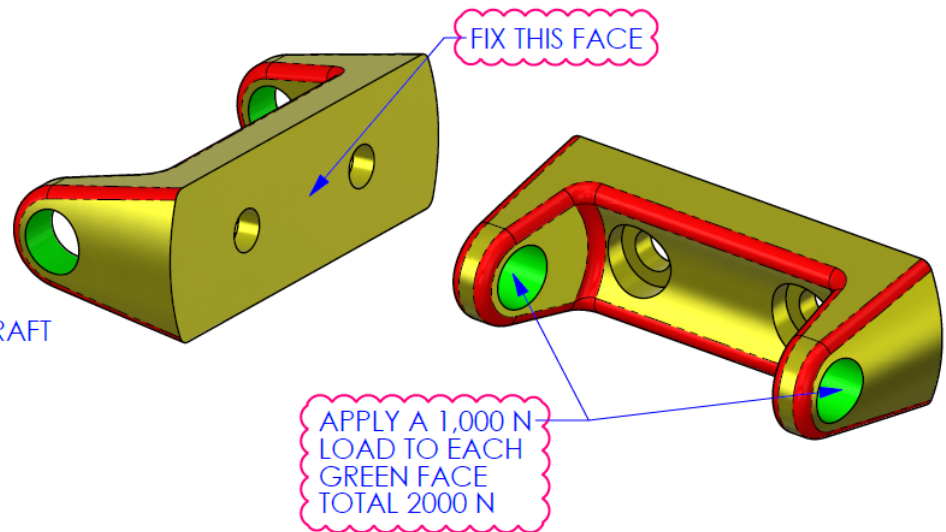
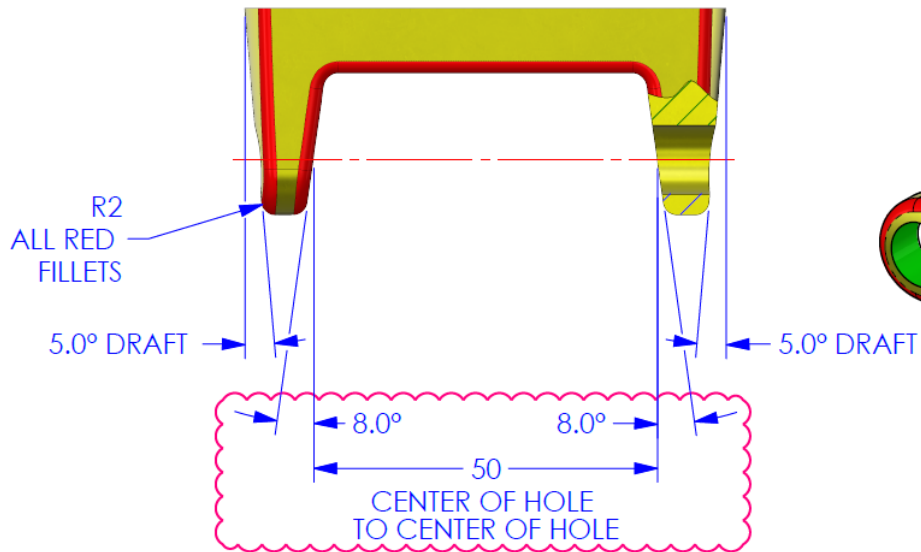
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**MODEL MANIA® 2019**  
**Phase 1**



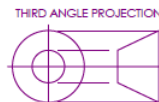


PHASE 2:

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NOTES:

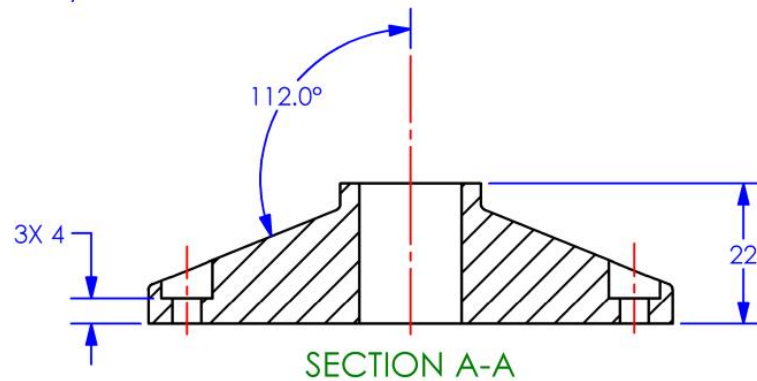
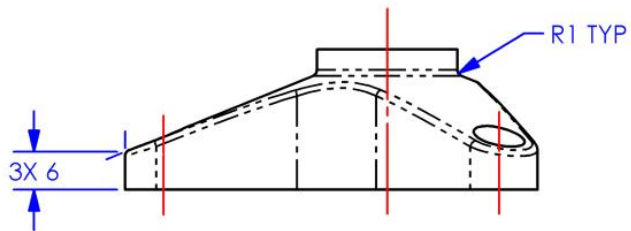
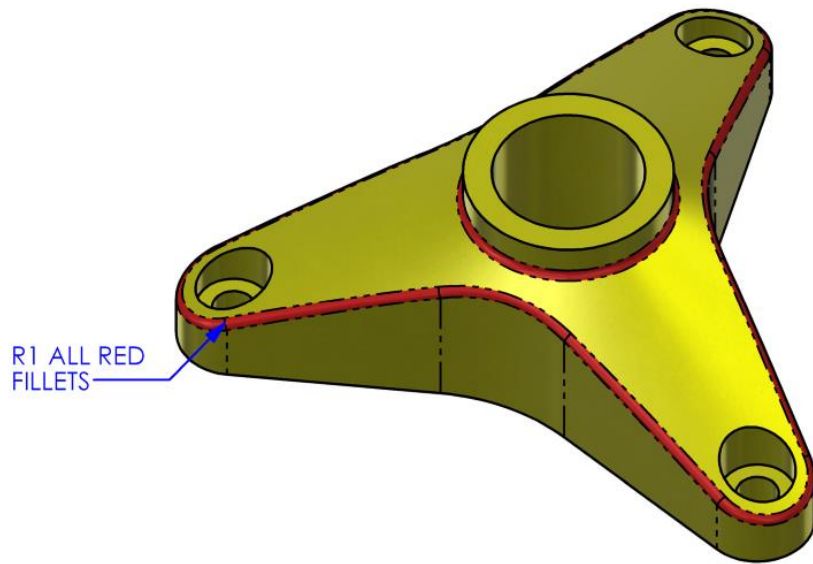
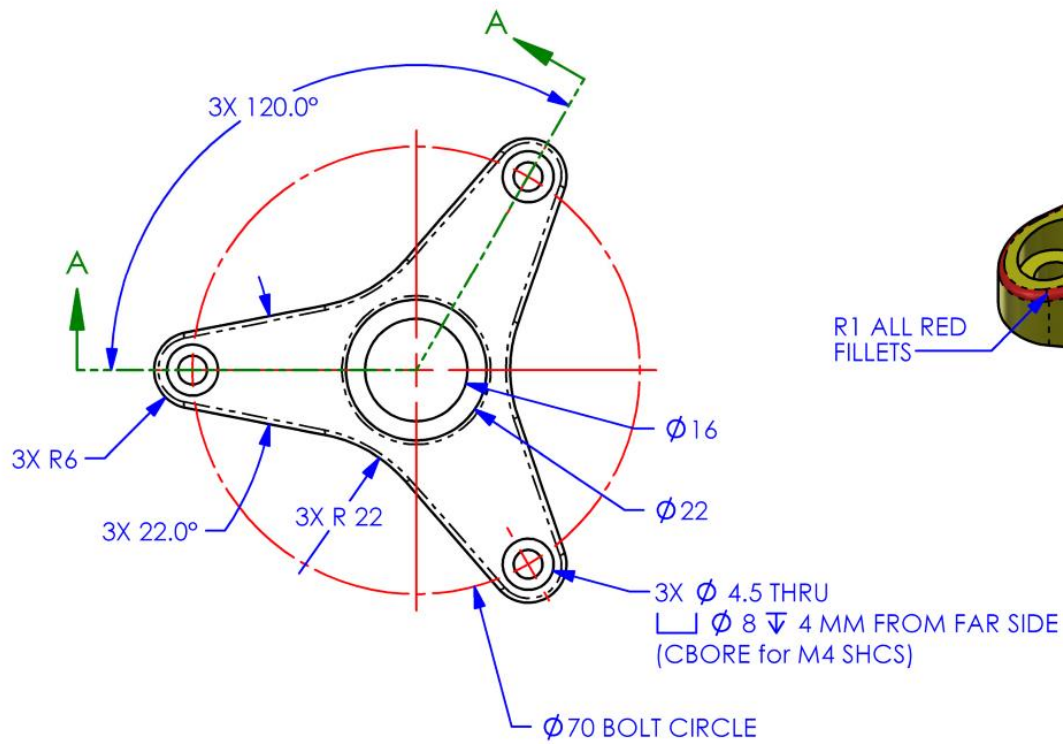
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**MODEL MANIA® 2019**  
**Phase 2**

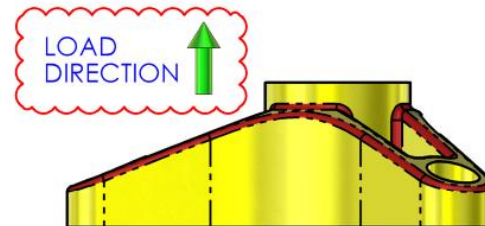
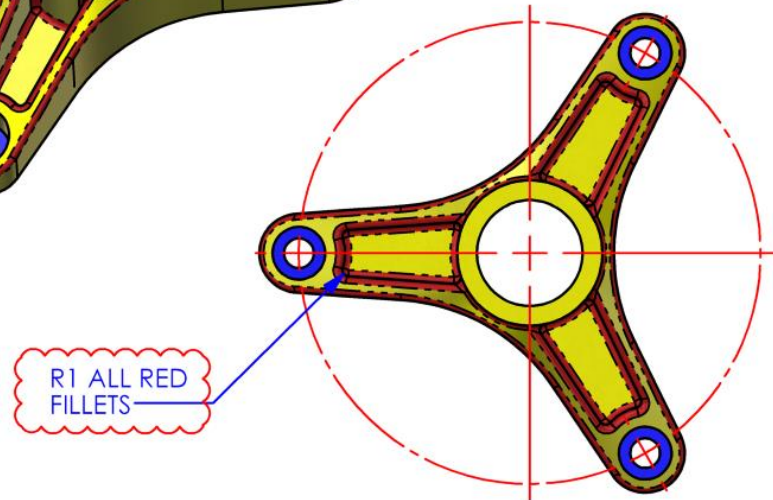
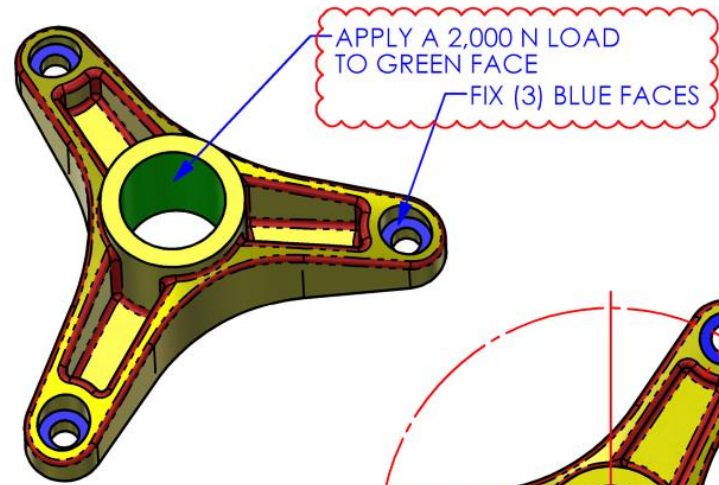
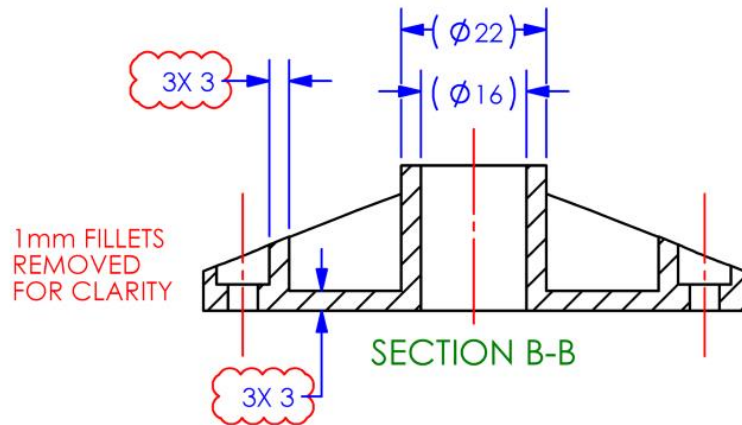
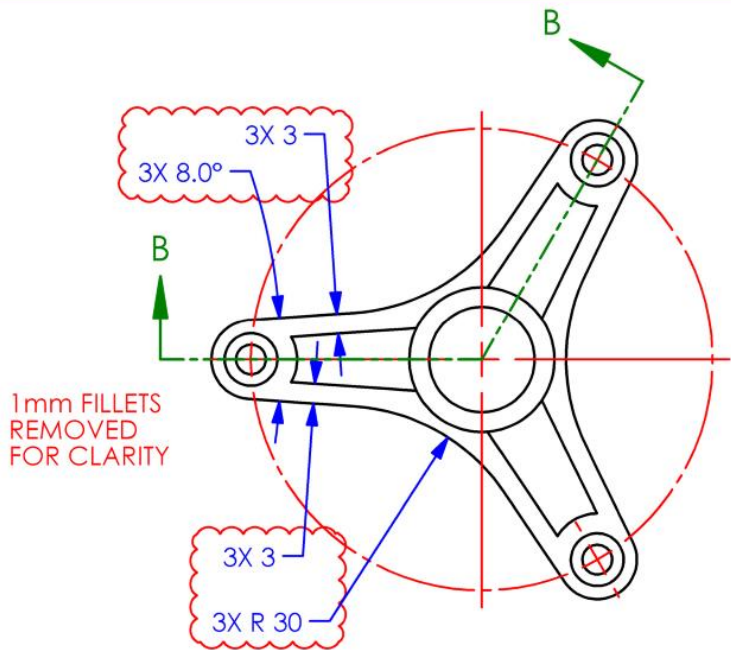


- NOTES:
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**MODEL MANIA® 2020**  
**Phase 1**



PHASE 2:

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THIRD ANGLE PROJECTION



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MODEL MANIA® 2020

Phase 2