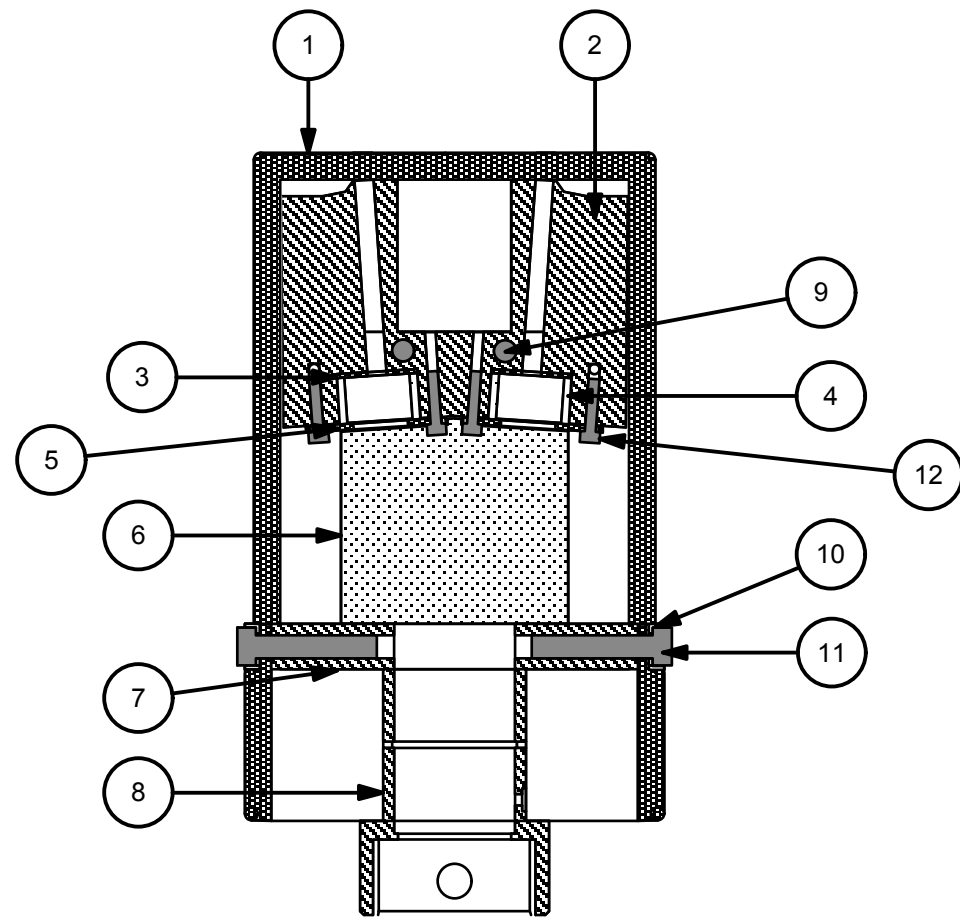
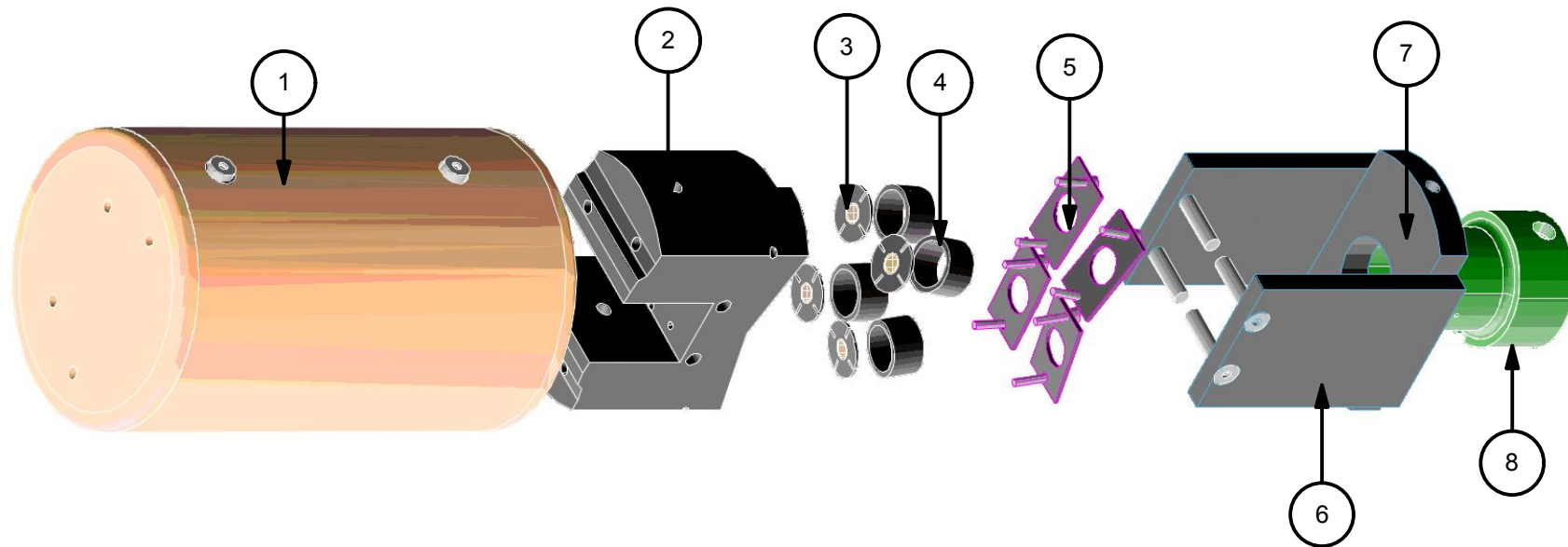
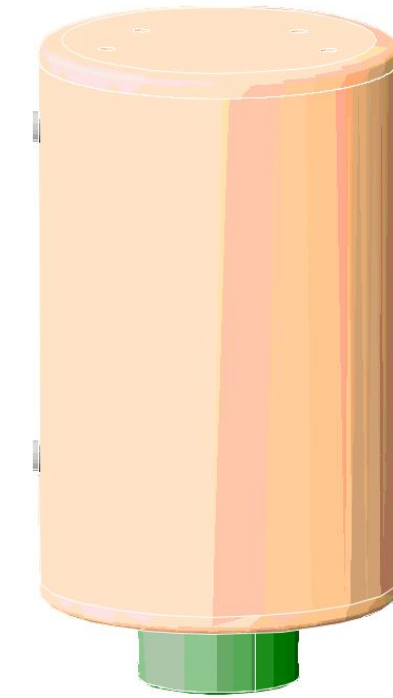
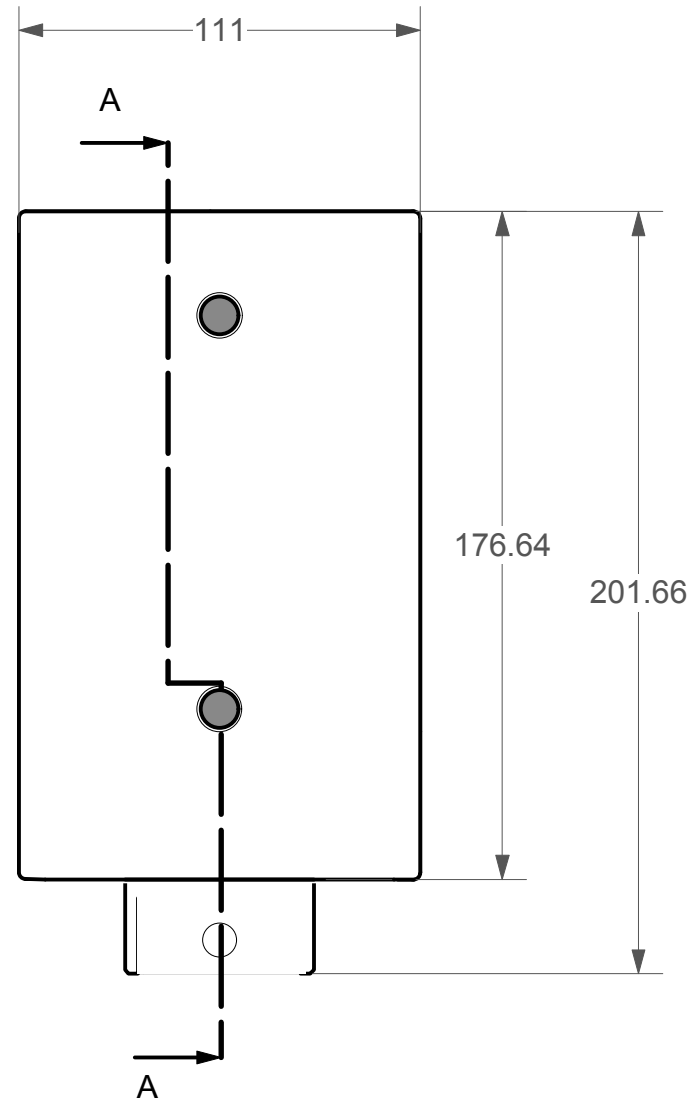


ITEM NO.	DRAWING NO.	DESCRIPTION	QUANTITY
1	CFPD12	SHIELD	1
2	CFPD06	MODULE	1
3	CFPD03	WASHER FOR FOIL	4
4	CFPD04	INSULATOR FOR DETECTOR	4
5	CFPD05	BASE	4
6	CFPD08	CONNECTOR PIECE 1	1
7	CFPD09	CONNECTOR PIECE 2 (TOP PORTION)	
8	M11501213	CONNECTOR PIECE 2 (BOTTOM PORTION DESIGNED BY MAST)	1
	MCMaster-CARR		
9	PN#92290A330	SCREW TO SECURE CONNECTOR PIECE 1 TO MODULE	4
10	CFPD11	BRACKETS TO SECURE SCREW IN SHIELD	4
	MCMaster-CARR		
11	PN#92290A334	SCREW TO SECURE SHIELD	4
	MCMaster-CARR		
12	PN#92290A118	SCREW TO SECURE BASE TO MODULE	8



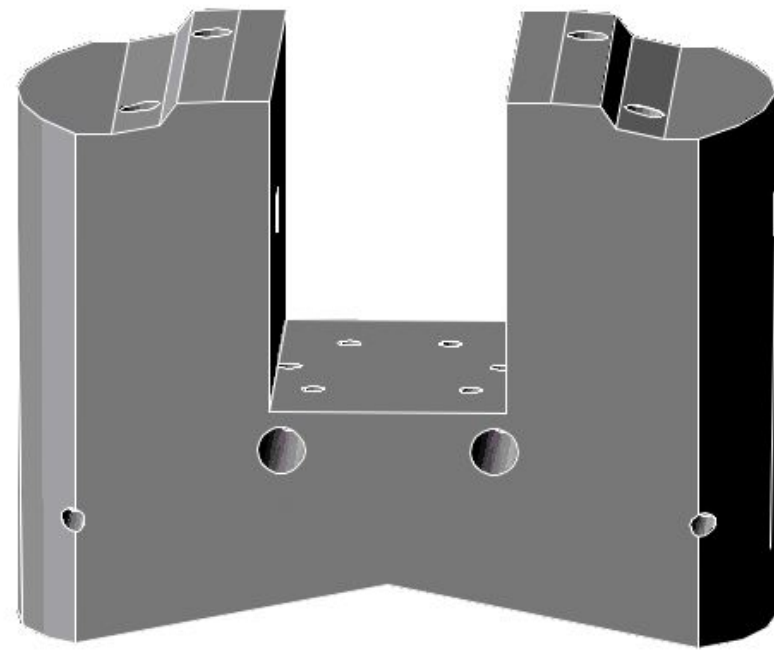
SECTION A - A



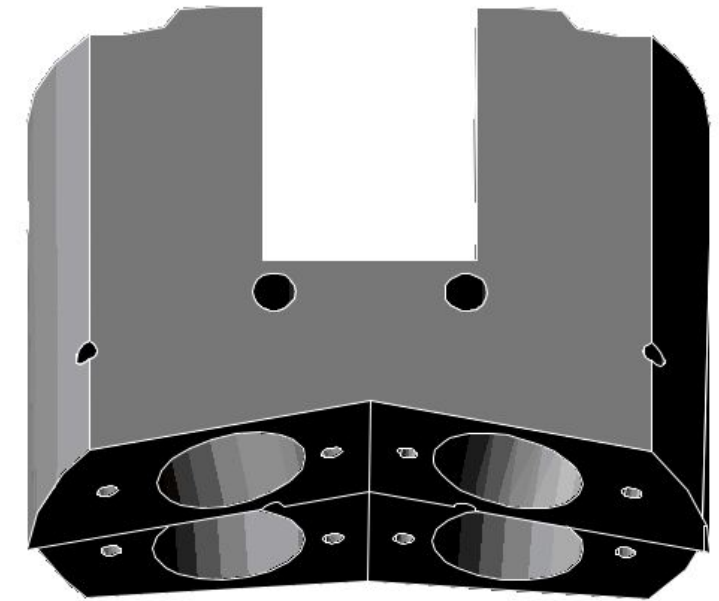
DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE ASSEMBLED GENERAL	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD01	SCALE
MATERIAL STAIN S., PEEK 100		SHEET 01 OF 01 SHEETS	DATE 09/09/2012
		WEIGHT 4.13kg	CURRENT ISSUE A

A

A



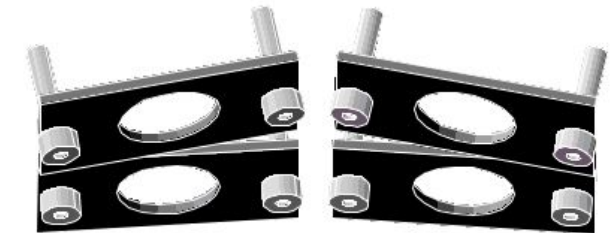
← MODULE



← WASHER FOR FOIL

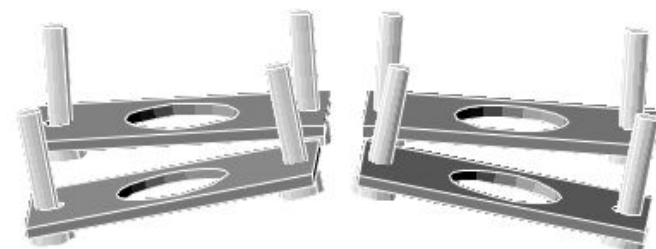


← INSULATOR FOR DETECTOR



B

B



← BASE

DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY		
DESIGNED BY RAMONA V. PEREZ				
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC		
APPROVED BY		TITLE ASSEMBLED MODULE IMAGE		
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD02	SCALE	DATE 09/09/2012
MATERIAL STAIN. S., PEEK 1000		SHEET 01 OF 01 SHEETS	WEIGHT 1.84kg	CURRENT ISSUE A

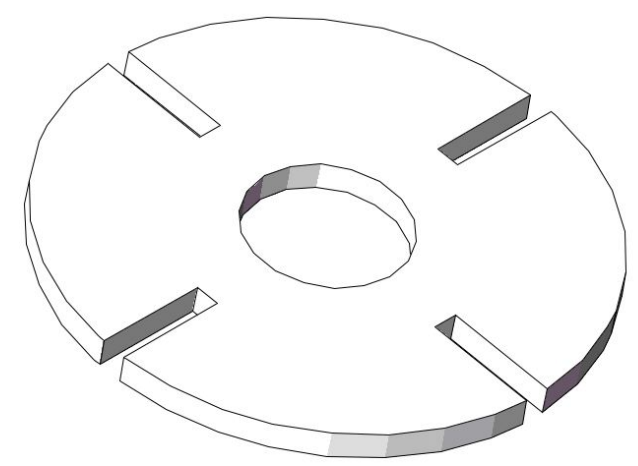
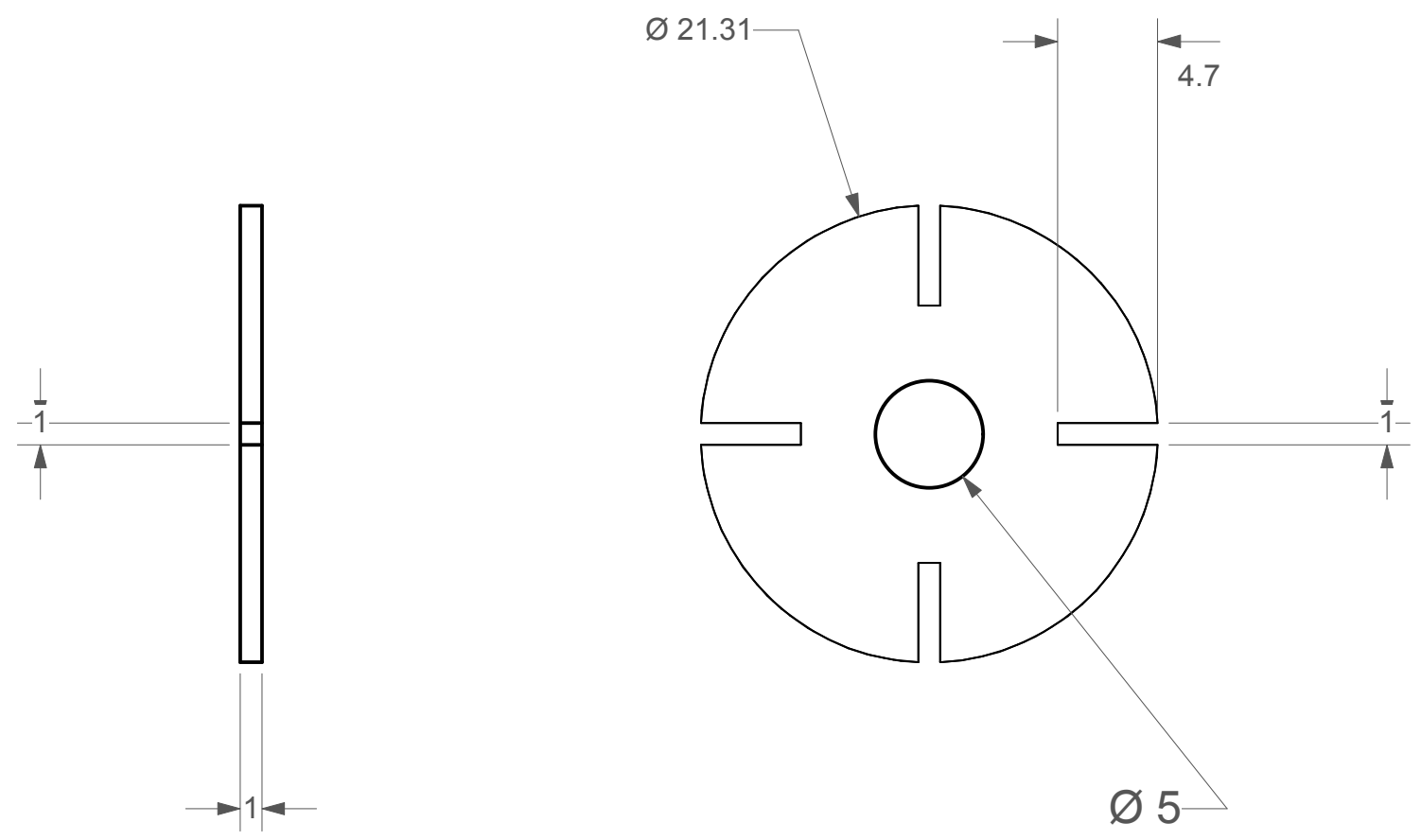
1

2

3

A

A



General Notes

- 1. FOUR OF THESE PIECES NEEDED.
- 2. WASHER MADE TO FIT INSIDE MODULE.

B

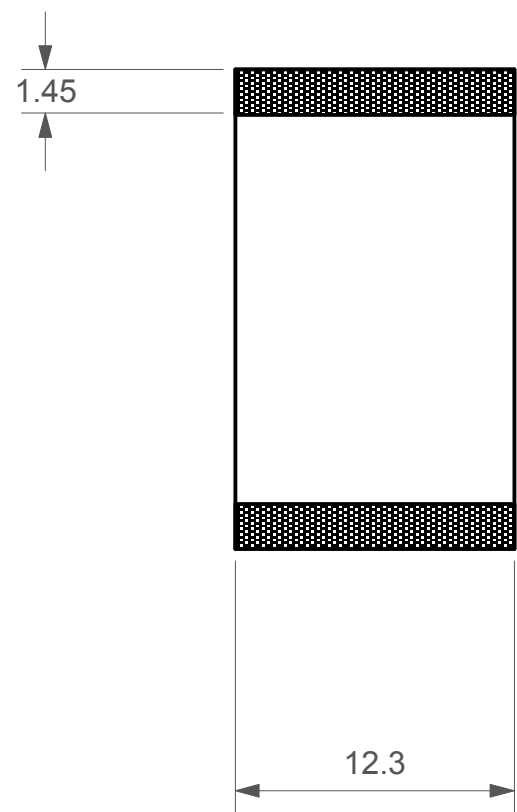
B

DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE WASHER FOR FOIL	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD03	SCALE 3:1
MATERIAL 316 STAINLESS STEEL		SHEET 01 OF 01 SHEETS	DATE 09/09/2012
		WEIGHT 0.003kg	CURRENT ISSUE A

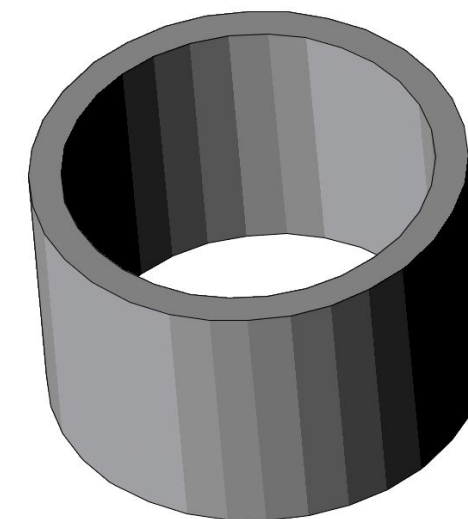
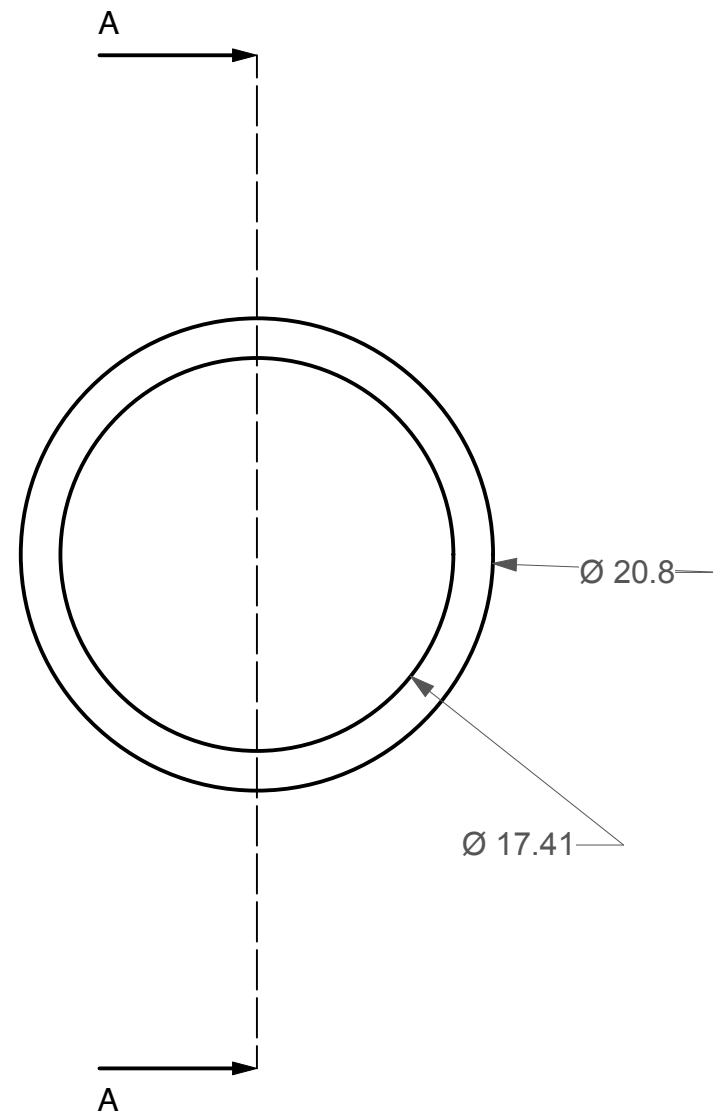
1

2

3



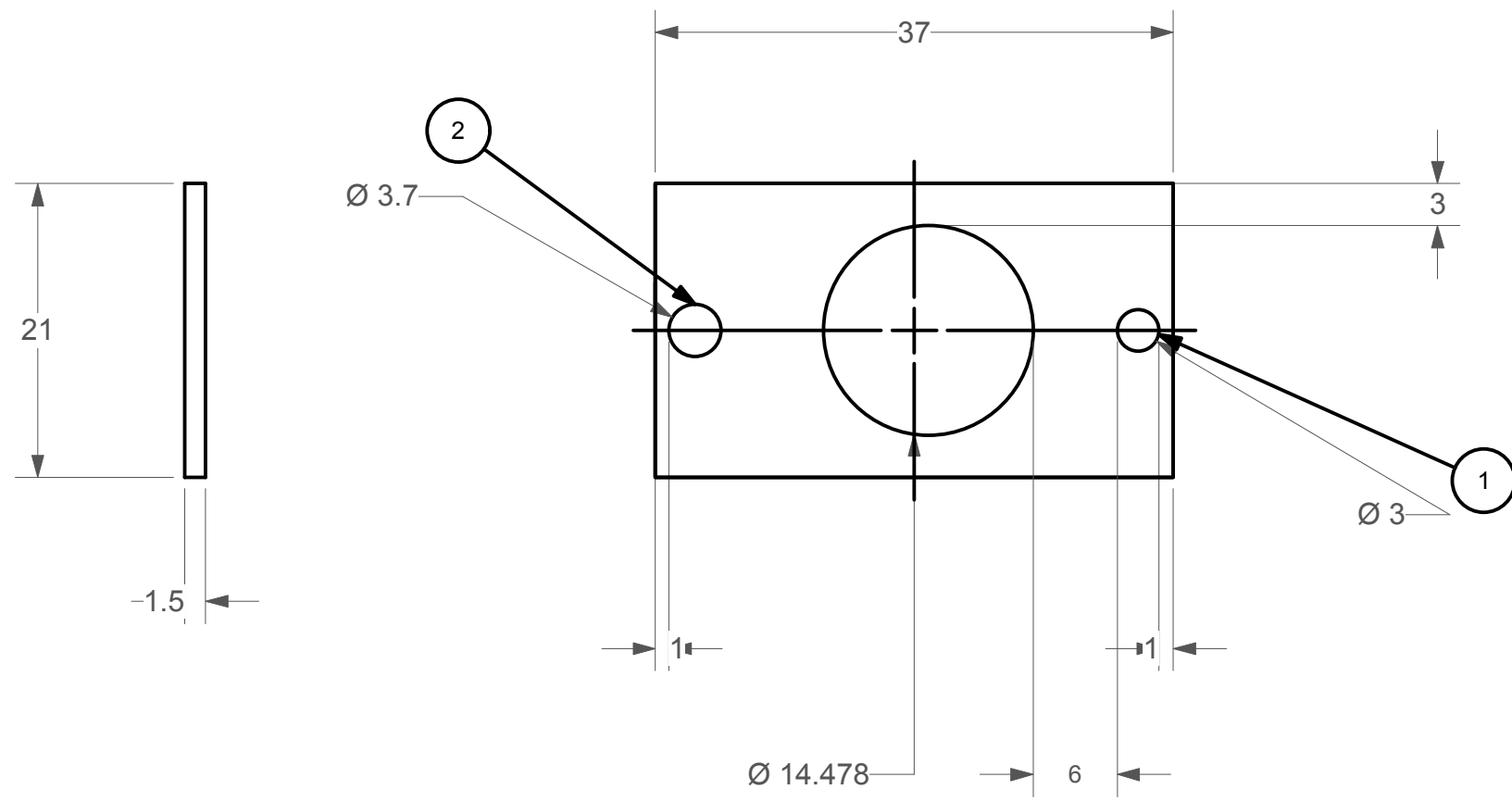
SECTION A - A



General Notes

- 1. FOUR OF THESE PIECES NEEDED.
- 2. INSULATION SLEEVE MADE TO FIT INSIDE MODULE.

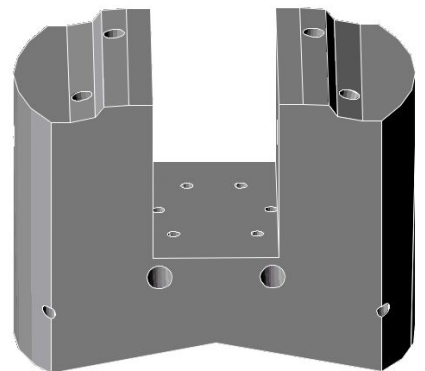
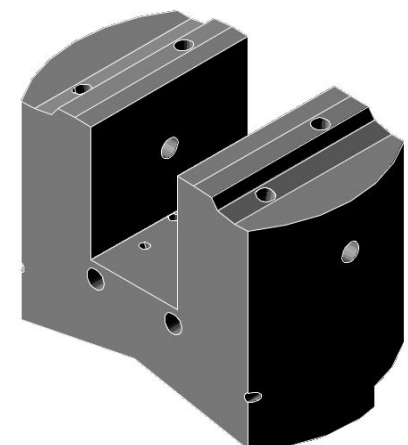
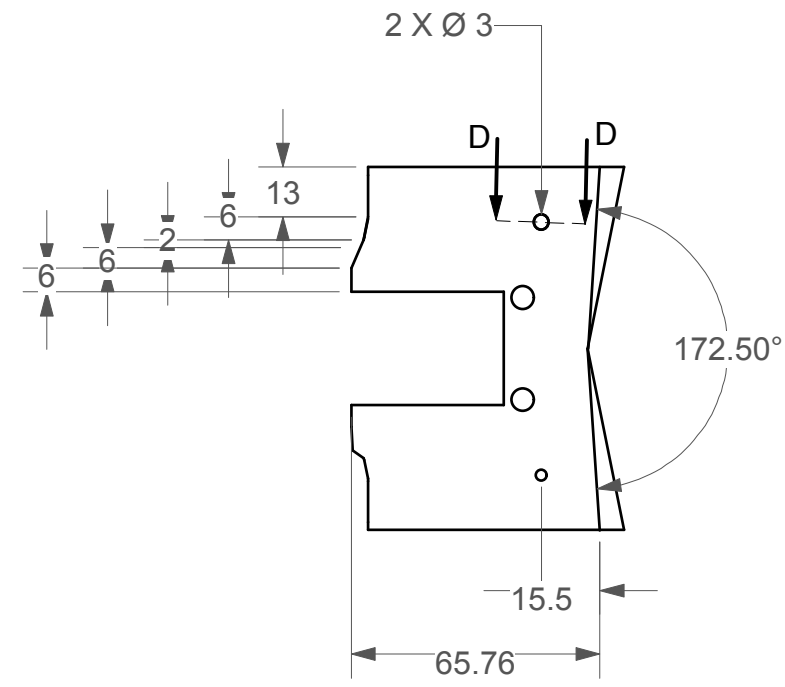
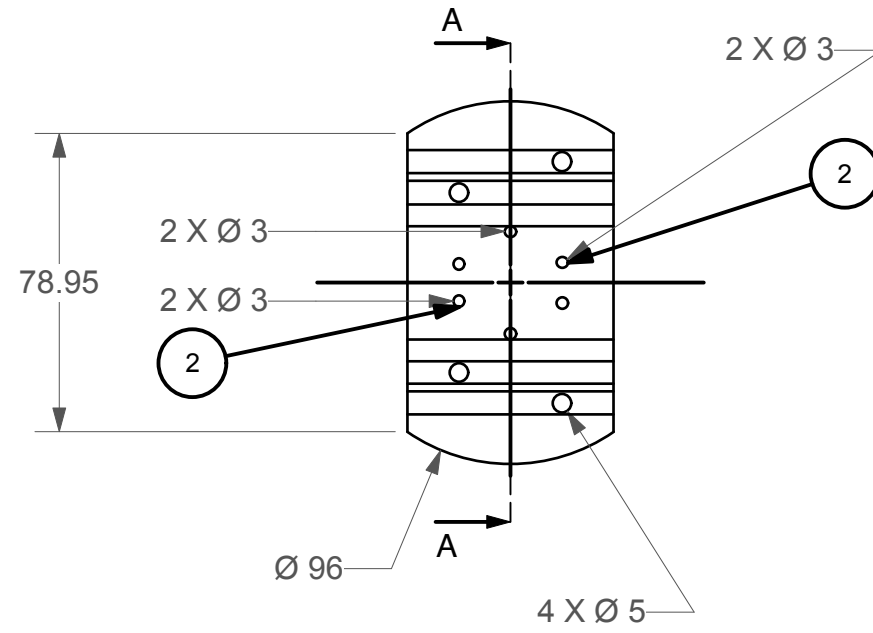
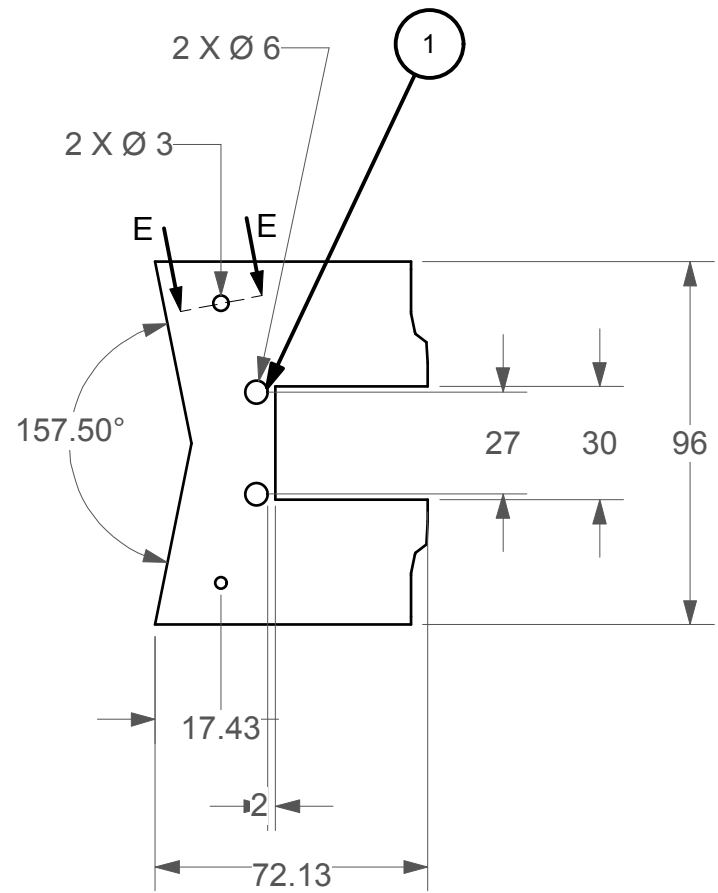
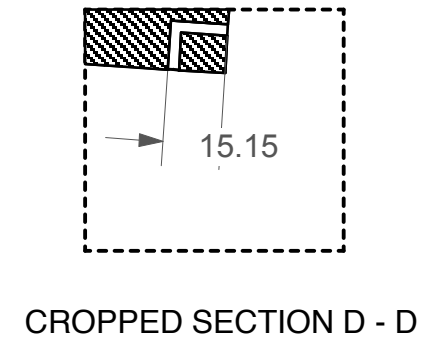
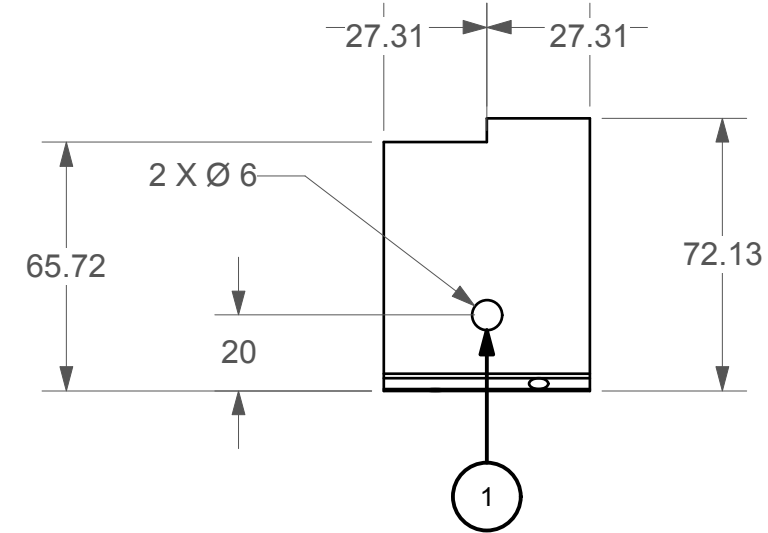
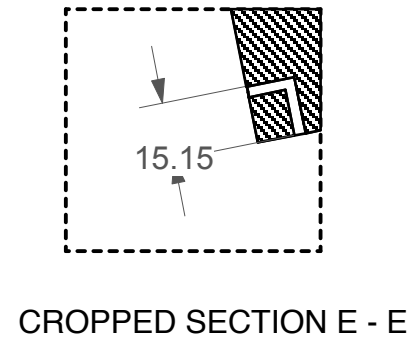
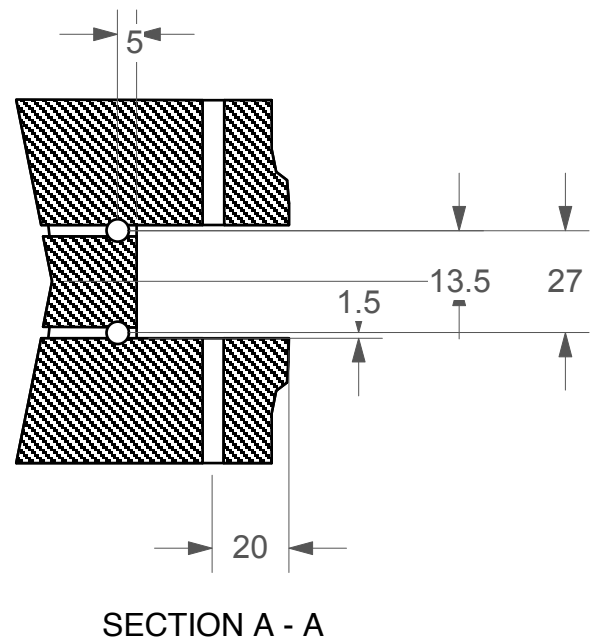
DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE DETECTOR INSULATOR	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD04	SCALE 3:1
MATERIAL PEEK 1000	SHEET 01 OF 01 SHEETS	WEIGHT 0.002kg	DATE 09/09/2012
		CURRENT ISSUE	A



General Notes

1. BORE THROUGH FOR M3 SOCKET HEAD CAP SCREW.
2. BORE THROUGH FOR M3 SOCKET HEAD CAP SCREW. DIAMETER LARGER THAN 3MM TO ACCOUNT FOR DIFFERENCE IN SPACING FOR ATTACHMENT TO MODULE (SEE DRG NO. CFPD07 SHEET 02).
3. FOUR OF THESE PIECES NEEDED.
4. BASE IS MADE TO FIT TO BOTTOM OF MODULE; ALL BORED HOLES MUST ALIGN WITH BOTTOM OF MODULE.

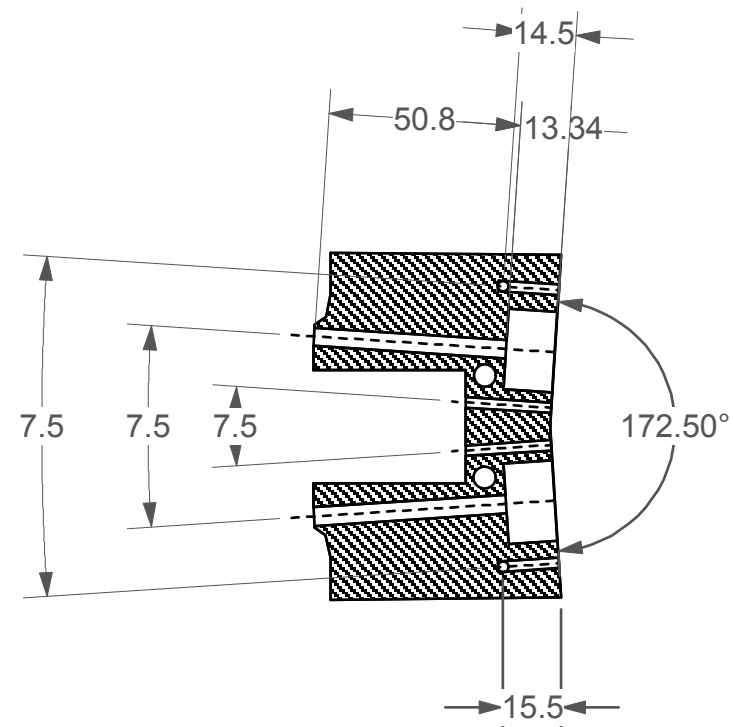
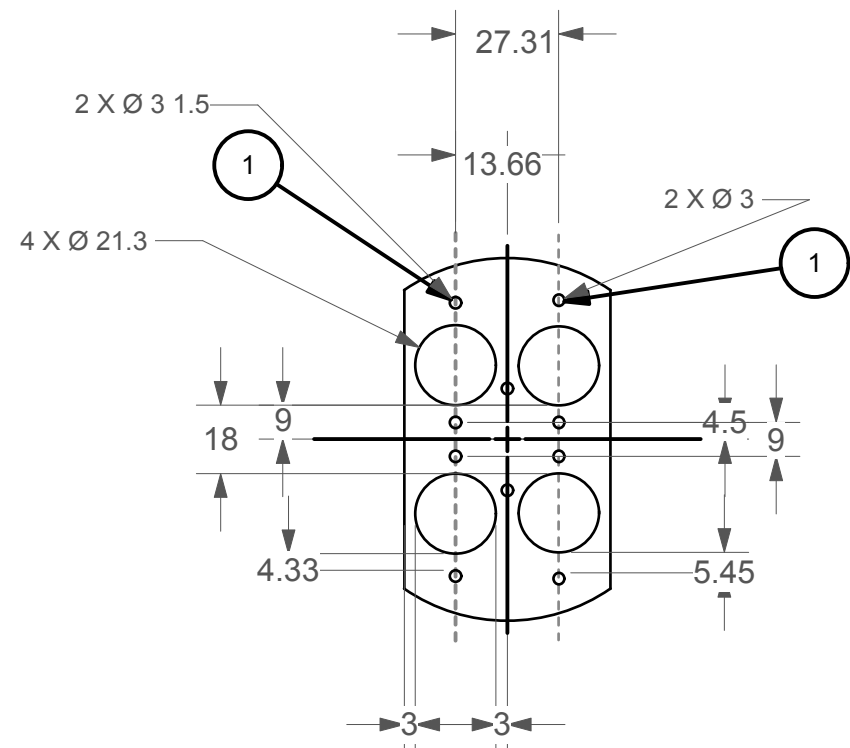
DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE BASE FOR MODULE	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD05	SCALE 2:1
MATERIAL 316 STAINLESS STEEL		SHEET 01 OF 01 SHEETS	DATE 09/09/2012
		WEIGHT 0.007kd	CURRENT ISSUE A



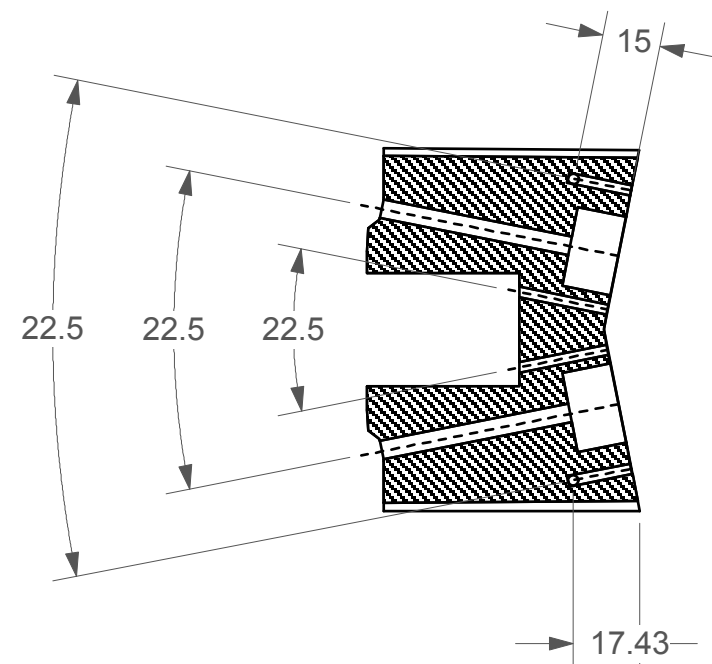
General Notes

1. TAP THRU FOR M6 SOCKET HEAD CAP SCREW.
2. TAP THRU FOR M3 SOCKET HEAD CAP SCREW.
3. MODULE MADE TO BE ASSEMBLED WITH SHIELD AND CONNECTOR; CORRESPONDING HOLES SHOULD ALIGN.

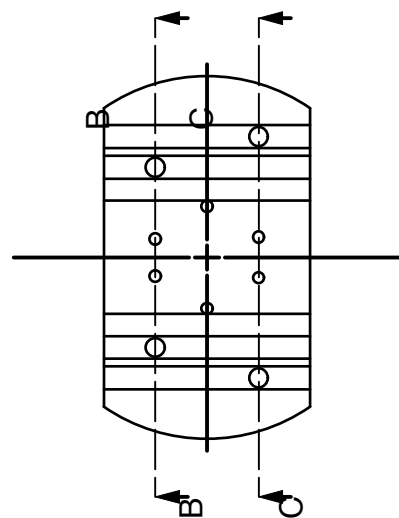
DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE MODULE A	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD06	SCALE 1:2
MATERIAL 316 STAINLESS STEEL		SHEET 01 OF 02 SHEETS	DATE 09/09/2012
		WEIGHT 1.78kd	CURRENT ISSUE A



SECTION B - B



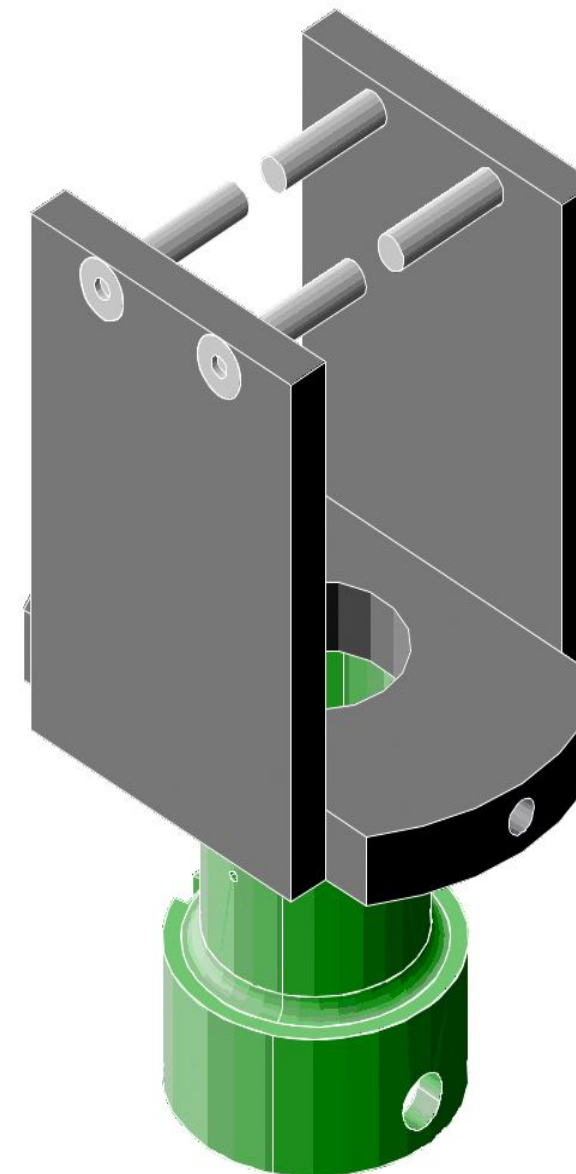
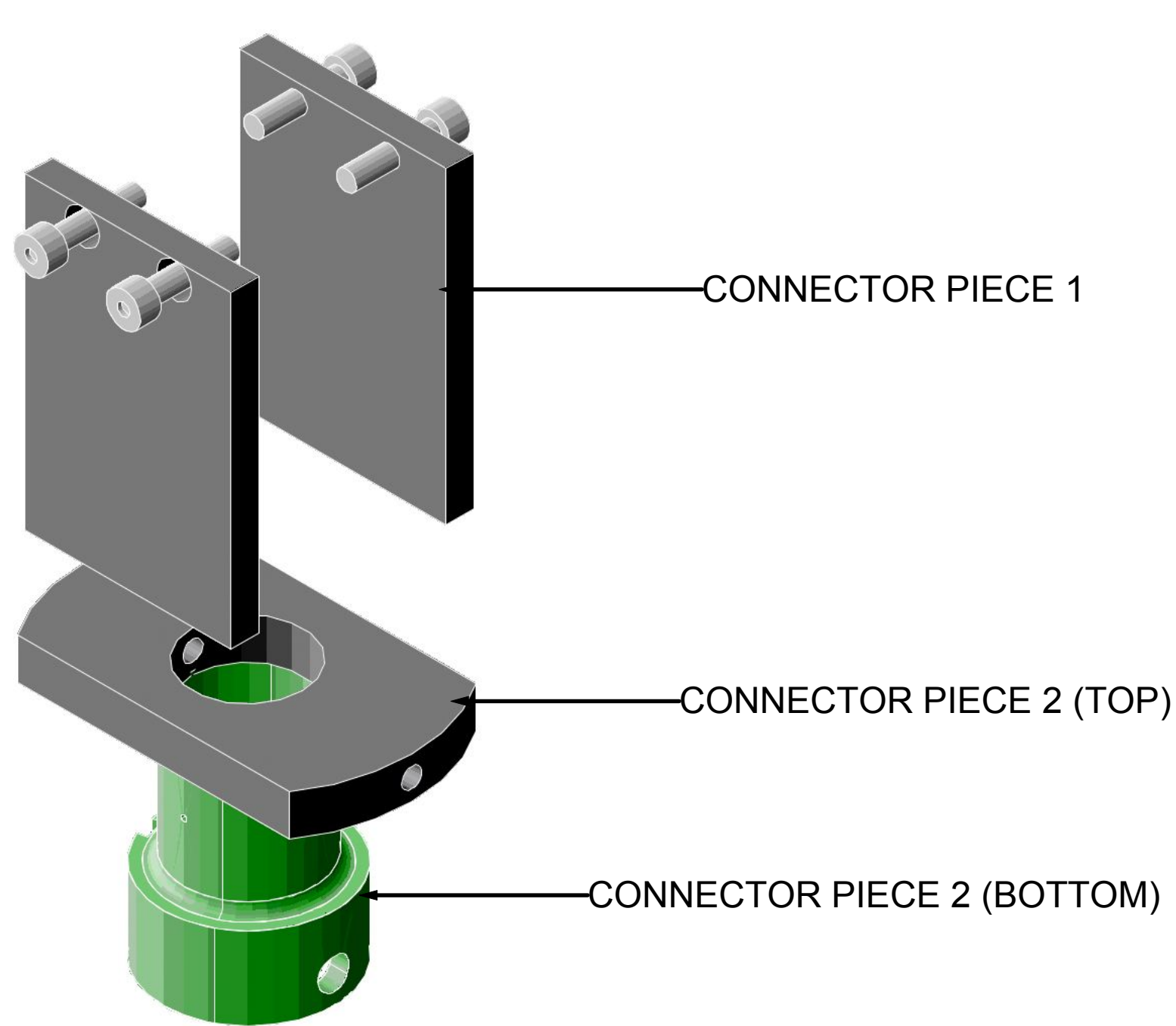
SECTION C - C



General Notes

1. TAP TO CORRESPONDING DEPTHS (SECTION B-B AND SECTION C-C) FOR M3 SOCKET HEAD CAP SCREW.
2. MODULE MADE TO BE ASSEMBLED WITH SHIELD AND CONNECTOR; CORRESPONDING HOLES SHOULD ALIGN.

DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY		
DESIGNED BY RAMONA V. PEREZ				
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC		
APPROVED BY		TITLE MODULE B		
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD06	SCALE 1:2	DATE 09/09/2012
MATERIAL 316 STAINLESS STEEL		SHEET 02 OF 02 SHEETS	WEIGHT 1.78kg	CURRENT ISSUE A



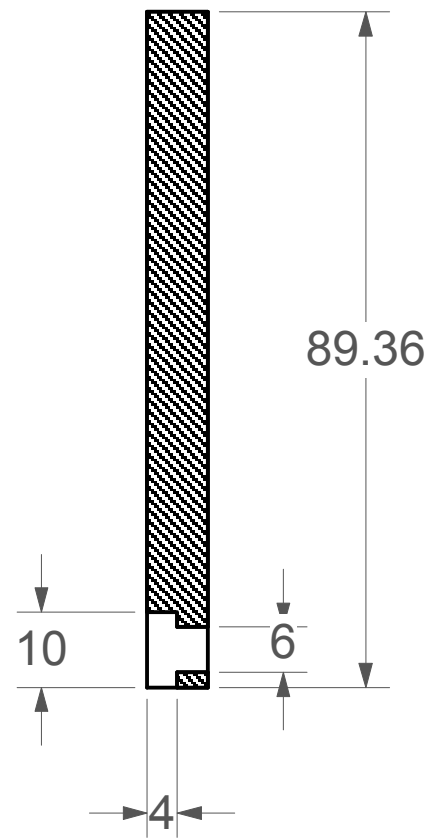
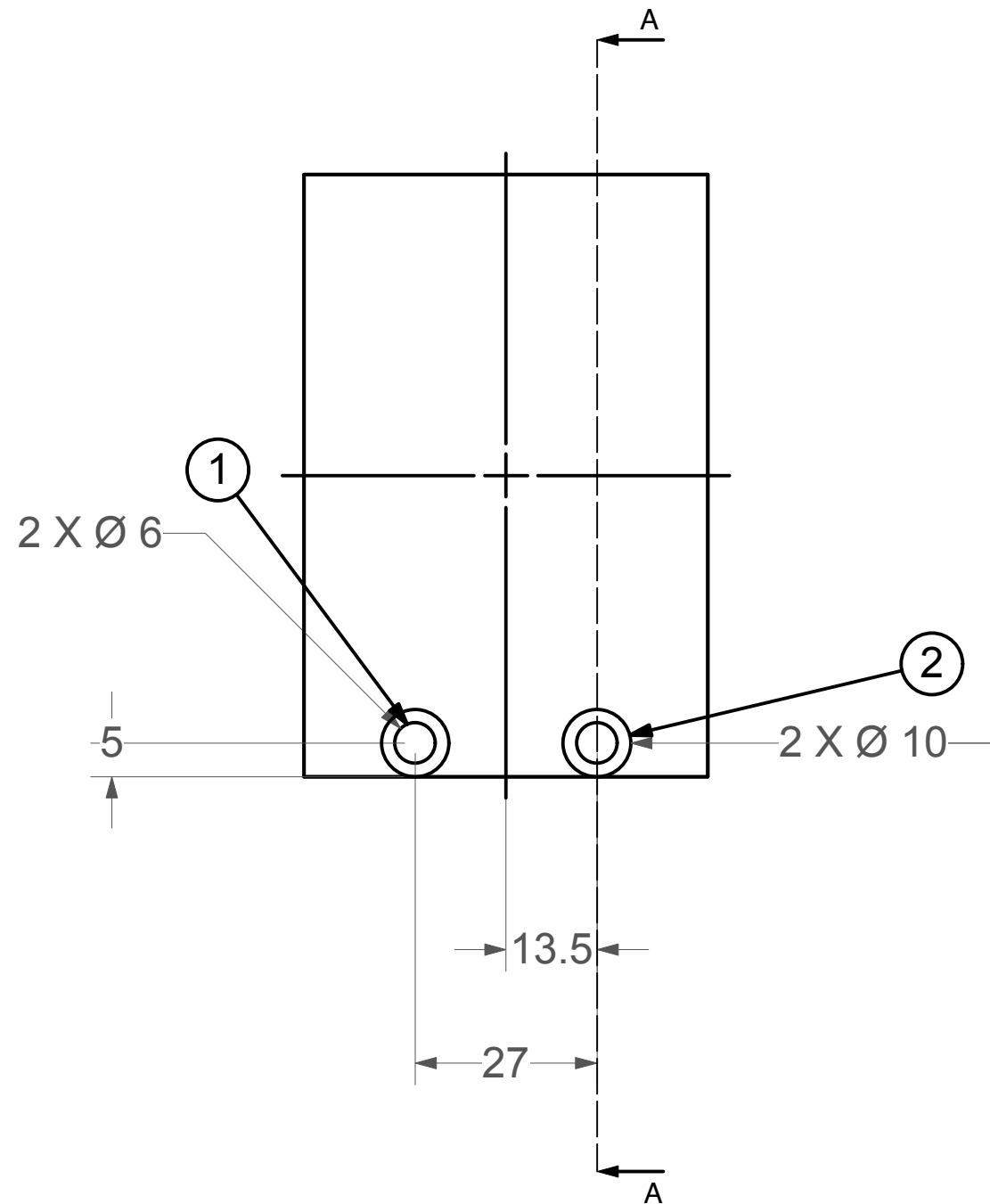
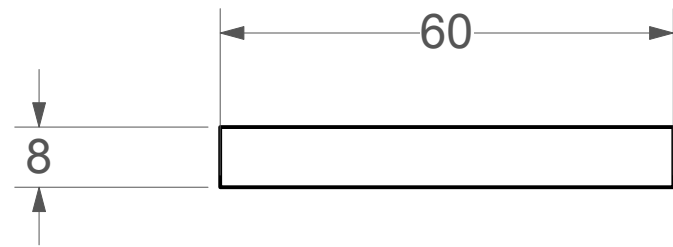
A

A

B

B

DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE ASSEMBLED CONNECTOR IMAGE	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD07	SCALE
MATERIAL 316 STAINLESS STEEL		SHEET 01 OF 01 SHEETS	DATE 09/09/2012
		WEIGHT 1.38kg	CURRENT ISSUE A



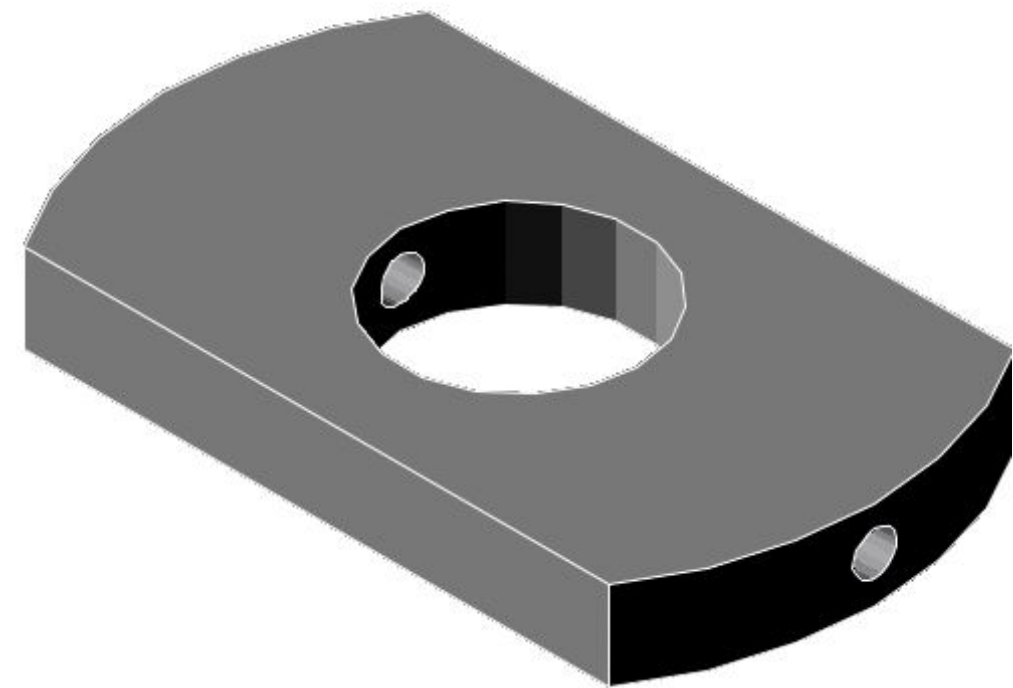
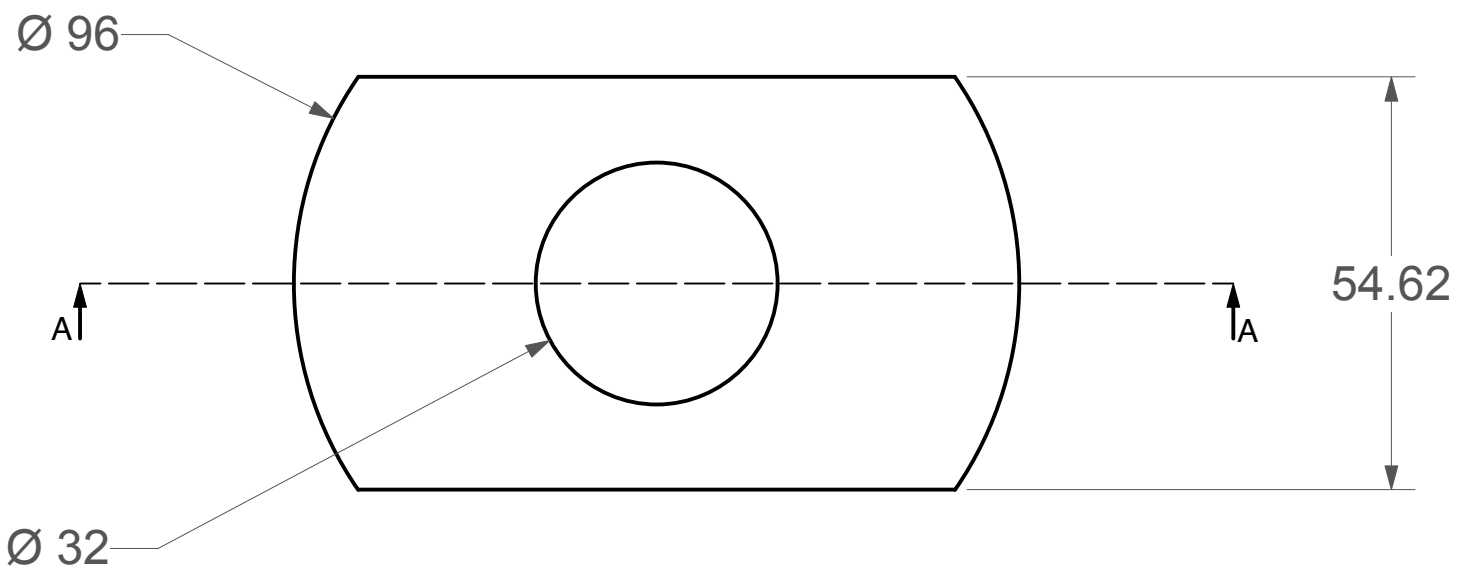
SECTION A - A



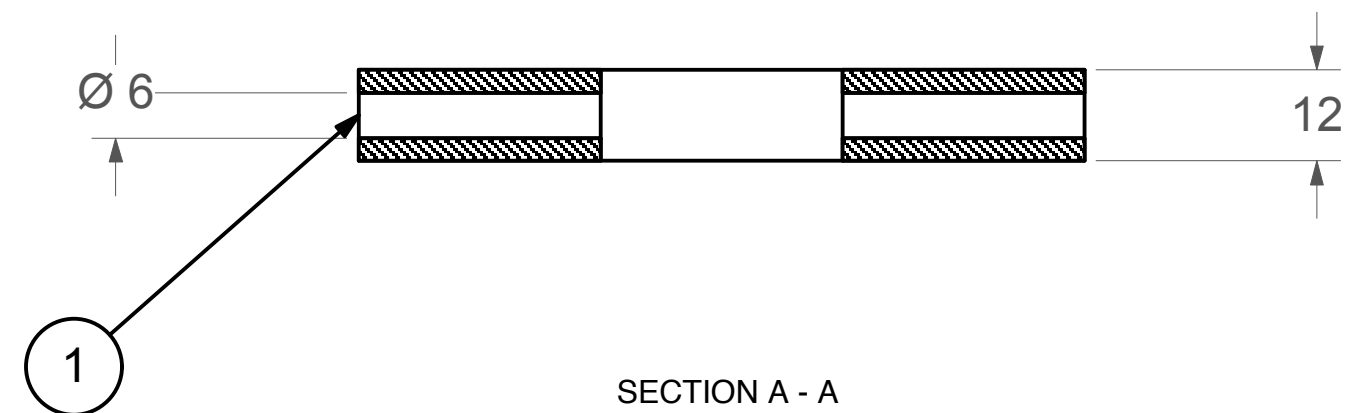
General Notes

1. BORE THRU FOR M6 SOCKET HEAD CAP SCREW.
2. BORE 6MM SO THAT M6 SOCKET HEAD CAP SCREW HEAD IS FLUSH WITH CONNECTOR PIECE 1 SURFACE (SEE SECTION A-A).
3. CONNECTOR PIECE 1 TO BE WELDED ONTO CONNECTOR PIECE 2.
4. TWO OF THESE PIECES NEEDED.

DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE CONNECTOR PIECE 1	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD08	SCALE 1:1
MATERIAL 316 STAINLESS STEEL		SHEET 01 OF 01 SHEETS	DATE 09/09/2012
		WEIGHT 0.69kd	CURRENT ISSUE A



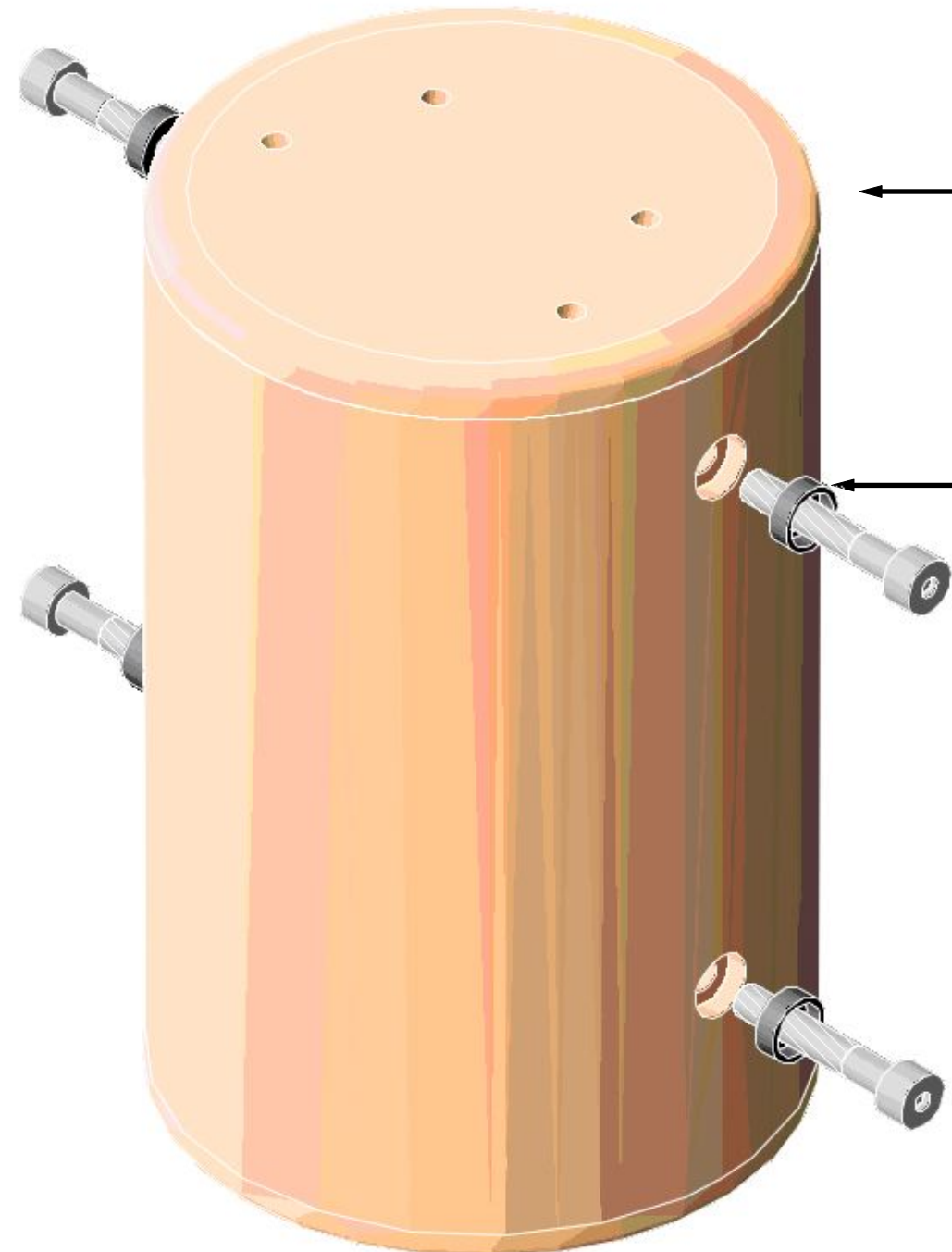
- General Notes**
1. TAP THRU FOR M6 SOCKET HEAD CAP SCREW.
 2. CONNECTOR PIECE 2 IS A SOLID PIECE. THERE ARE TWO DRAWINGS.



DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY
DESIGNED BY RAMONA V. PEREZ		
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC
APPROVED BY		TITLE CONNECTOR PIECE 2A
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD09
MATERIAL 316 STAINLESS STEEL		SCALE 1:1
SHEET 01 OF 01 SHEETS		DATE 09/09/2012
WEIGHT 0.39kd		CURRENT ISSUE A

A

A



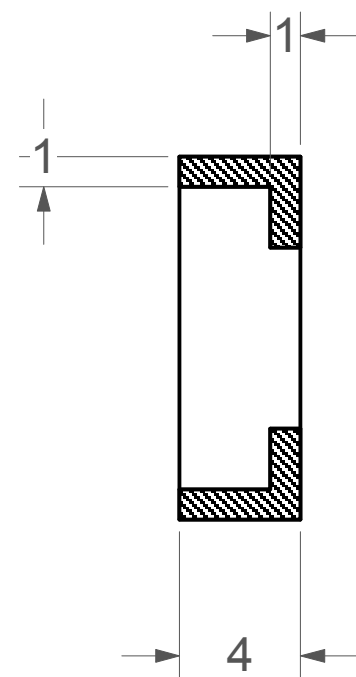
SHIELD

BRACKET

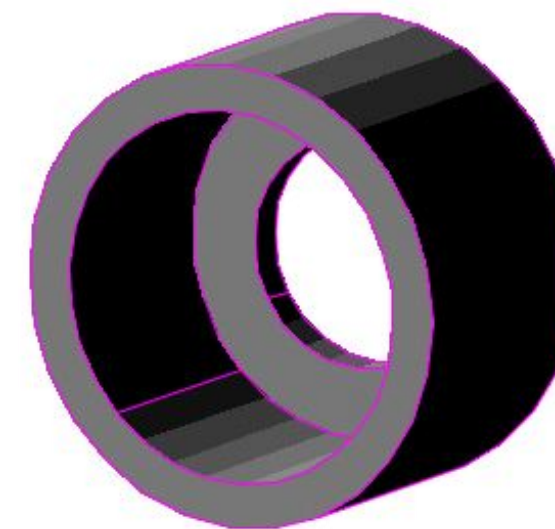
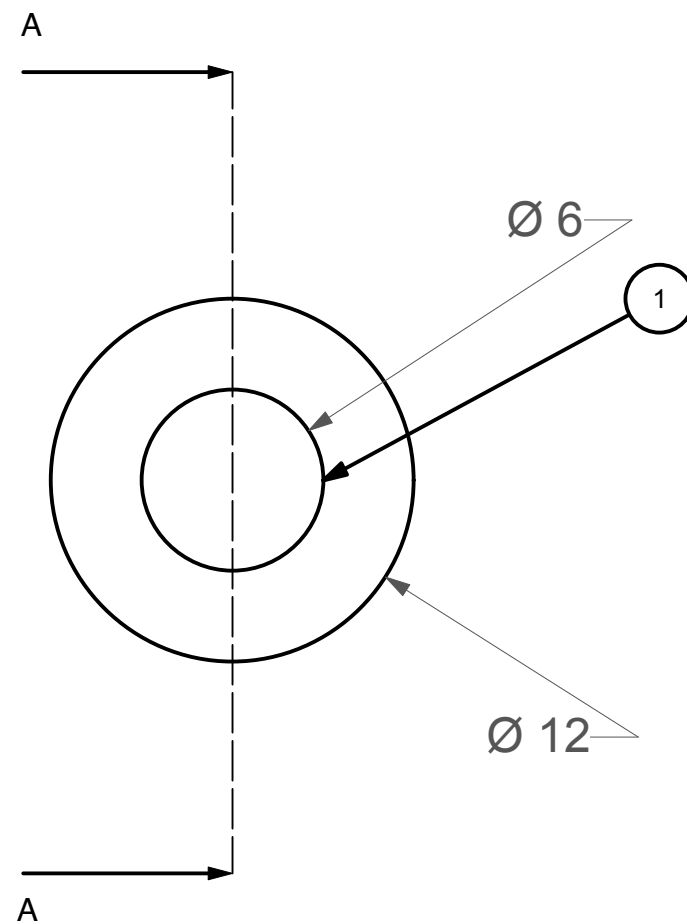
B

B

DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE ASSEMBLED SHIELD IMAGE	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD10	SCALE
MATERIAL 316L STAIN. S.		SHEET 01 OF 01 SHEETS	DATE 09/09/2012
		WEIGHT 0.91kg	CURRENT ISSUE A



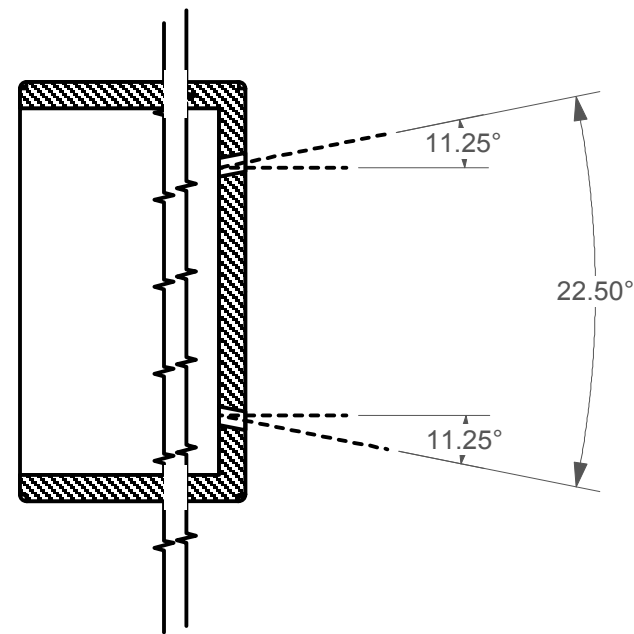
SECTION A - A



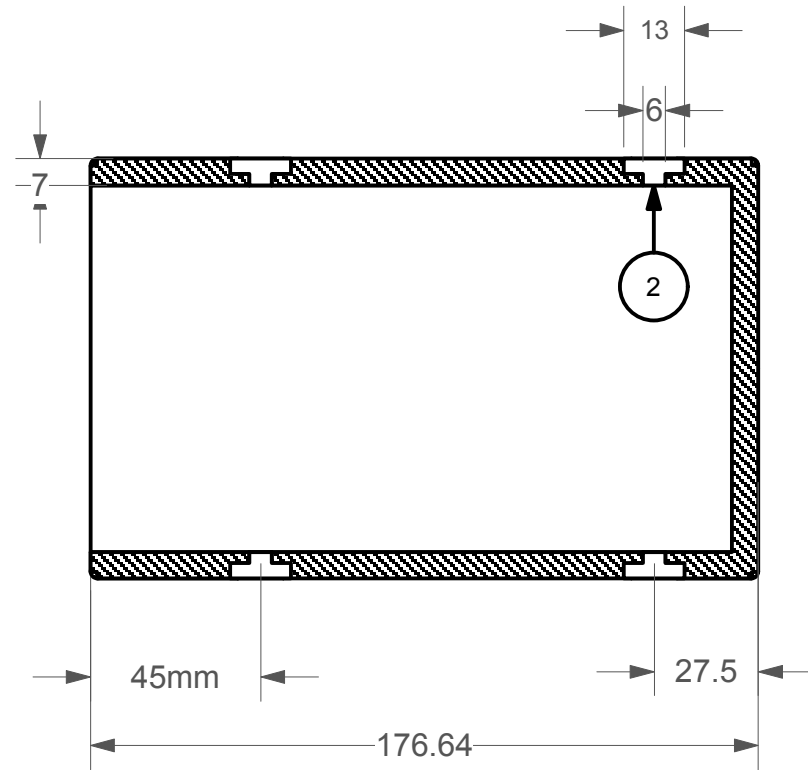
General Notes

1. BORE THRU FOR M6 SOCKET HEAD CAP SCREW.
2. BRACKET MADE TO FIT INSIDE SHIELD TO SECURE M6 ATTACHMENT SCREWS.
3. 4 OF THESE PIECES NEEDED.

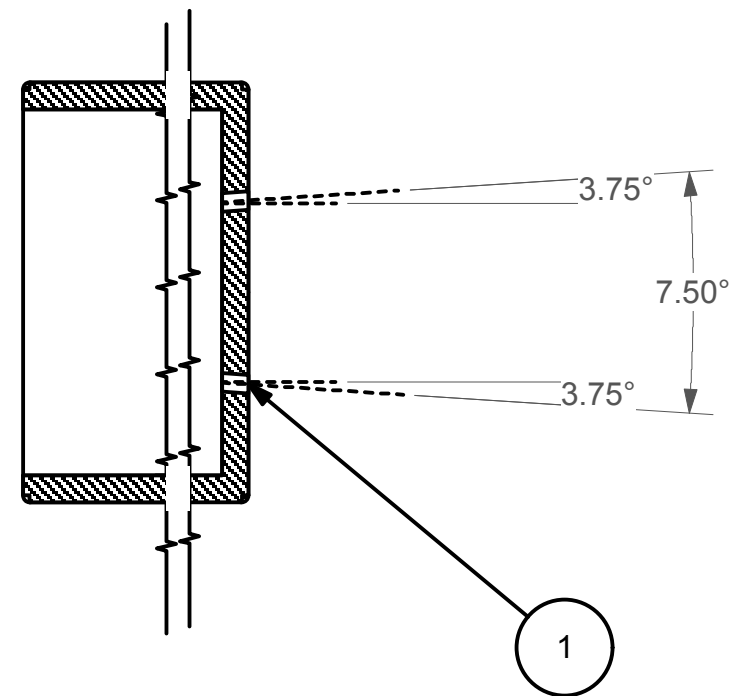
DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY P. J. PARSONS FROM UKAEA			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE BRACKETS FOR SHIELD	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD11	SCALE 4:1
MATERIAL 316 STAINLESS STEEL		SHEET 01 OF 01 SHEETS	DATE 09/09/2012
		WEIGHT 0.003kg	CURRENT ISSUE A



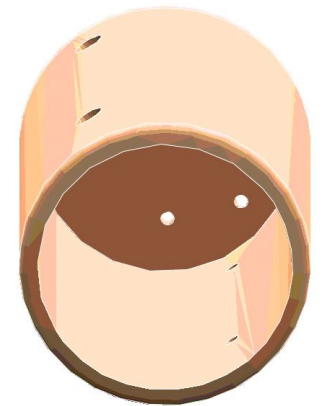
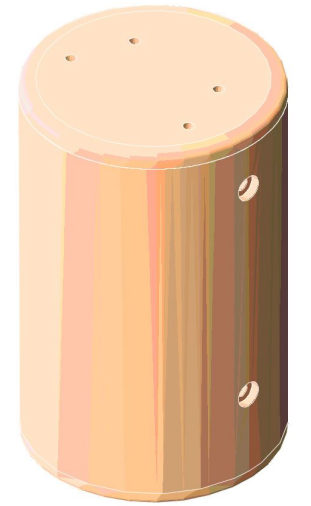
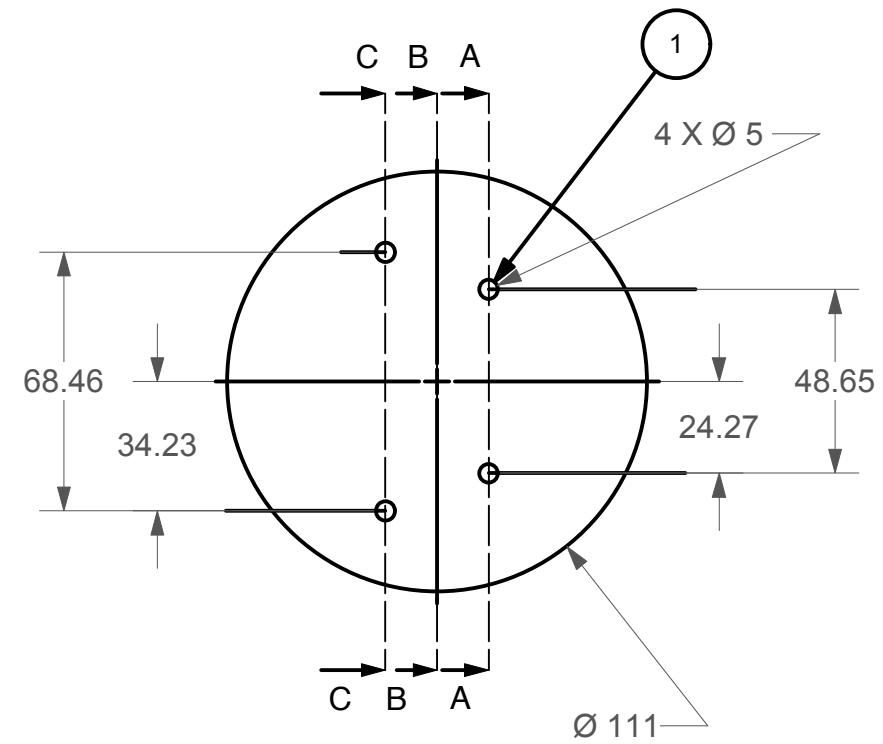
SECTION C - C



SECTION B - B



SECTION A - A



General Notes

1. BORE THRU FOUR 5MM HOLES AT INDICATED ANGLES.
2. BORE THRU FOR M6 SOCKET HEAD CAP SCREW.
3. SHIELD IS MADE TO FIT OVER MODULE AND CONNECTION PIECE; HOLES MUST ALIGN.
4. SHIELD WILL BE MADE BY SAINT GOBAIN CERAMICS.

DRAWN BY RAMONA V. PEREZ		FIU FLORIDA INTERNATIONAL UNIVERSITY	
DESIGNED BY RAMONA V. PEREZ			
CHECKED BY		PROJECT CHARGED FUSION PRODUCT DIAGNOSTIC	
APPROVED BY		TITLE SHIELD	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS IN MILLIMETERS UNLESS STATED	DRAWING NO. CFPD12	SCALE 1:2 DATE 09/09/2012
MATERIAL BN CERAMIC GRADE XP		SHEET 01 OF 01 SHEETS	WEIGHT 0.86kg CURRENT ISSUE A