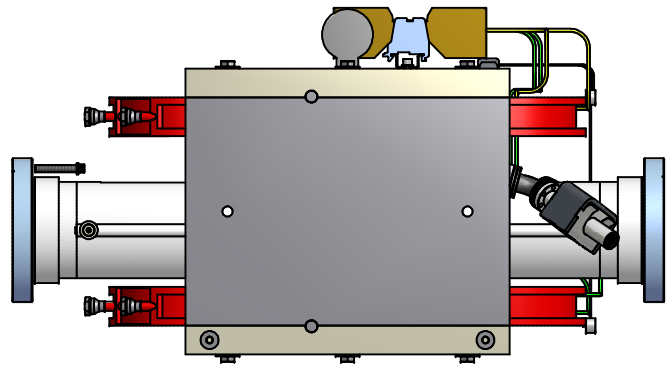
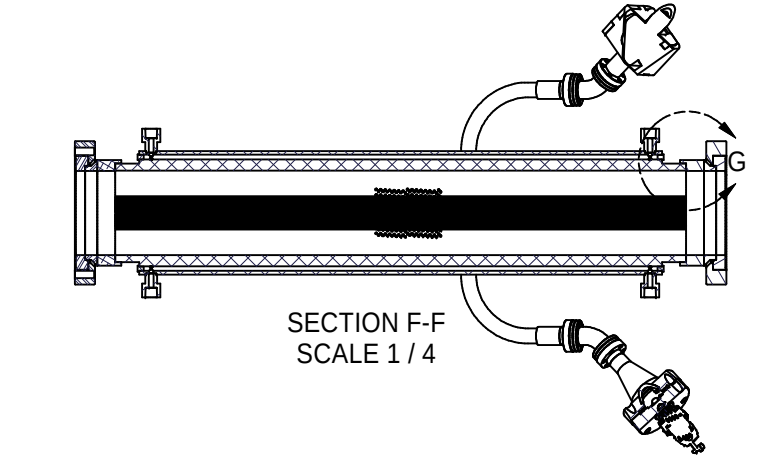
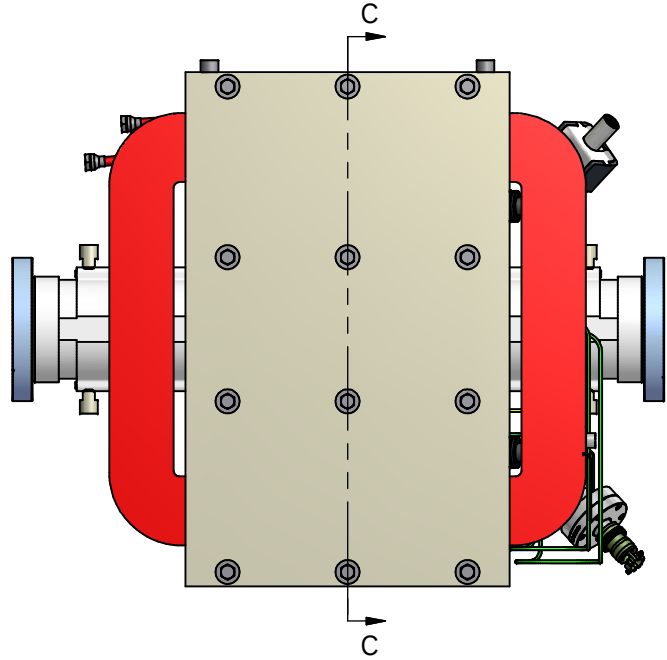
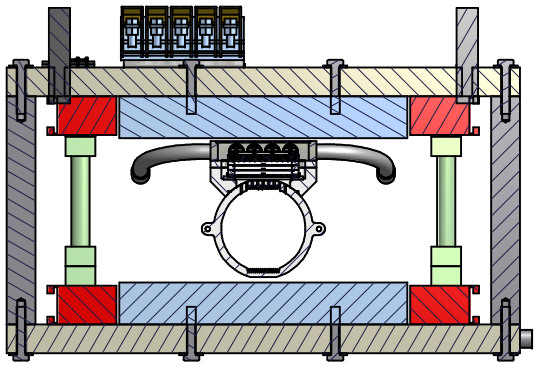
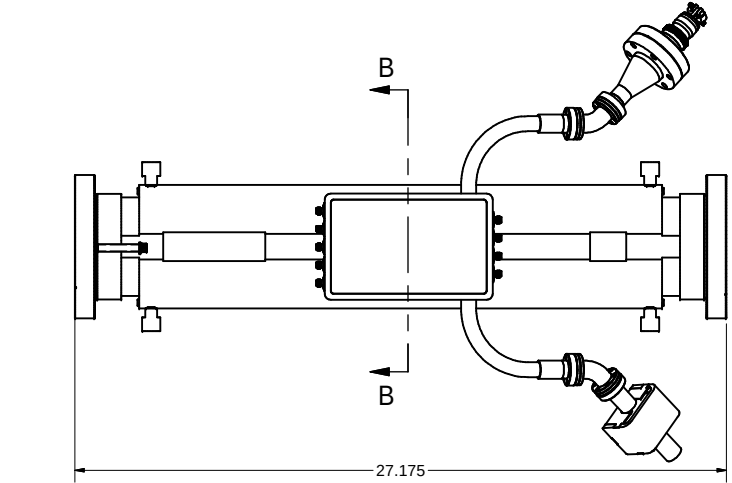
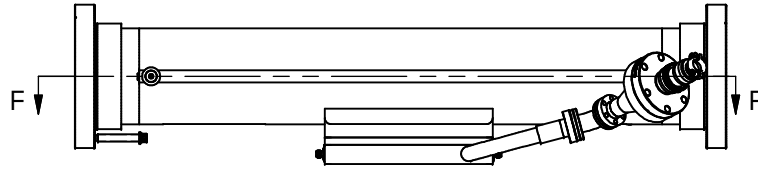




SECTION C-C
SCALE 1 / 4



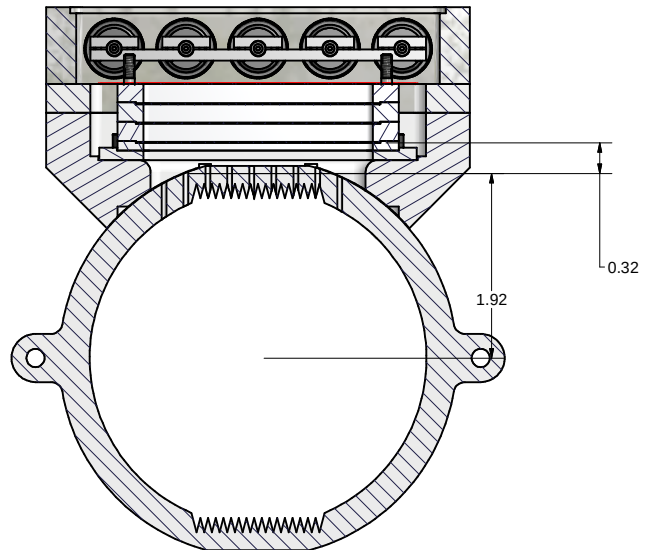
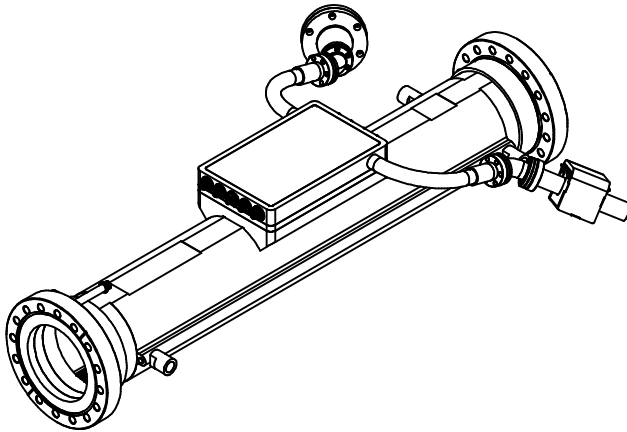
SECTION F-F
SCALE 1 / 4



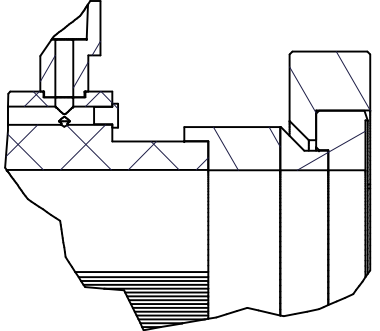
B

B

27.175



SECTION B-B
SCALE 1 : 1

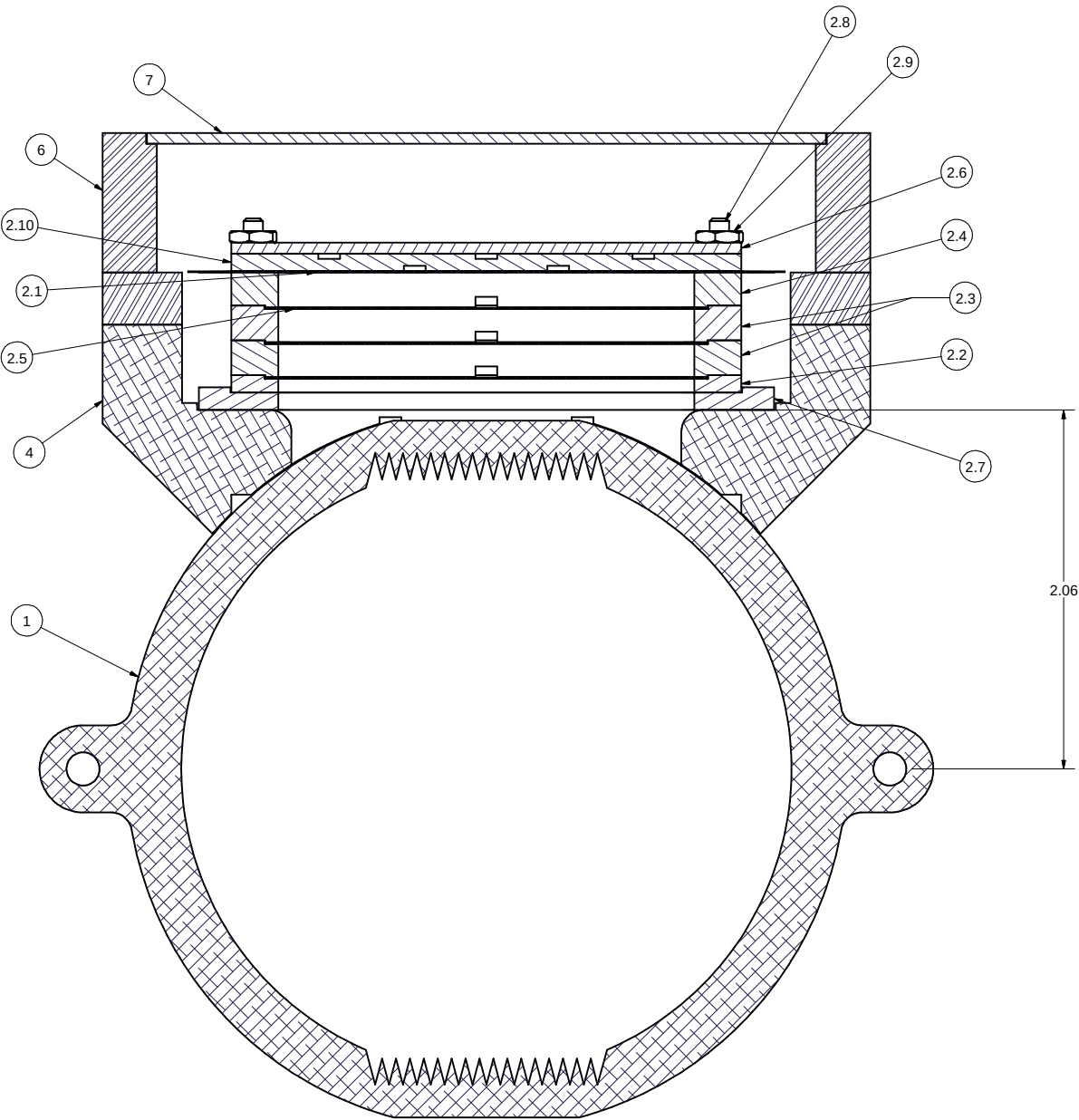


DETAIL G
SCALE 1 : 1

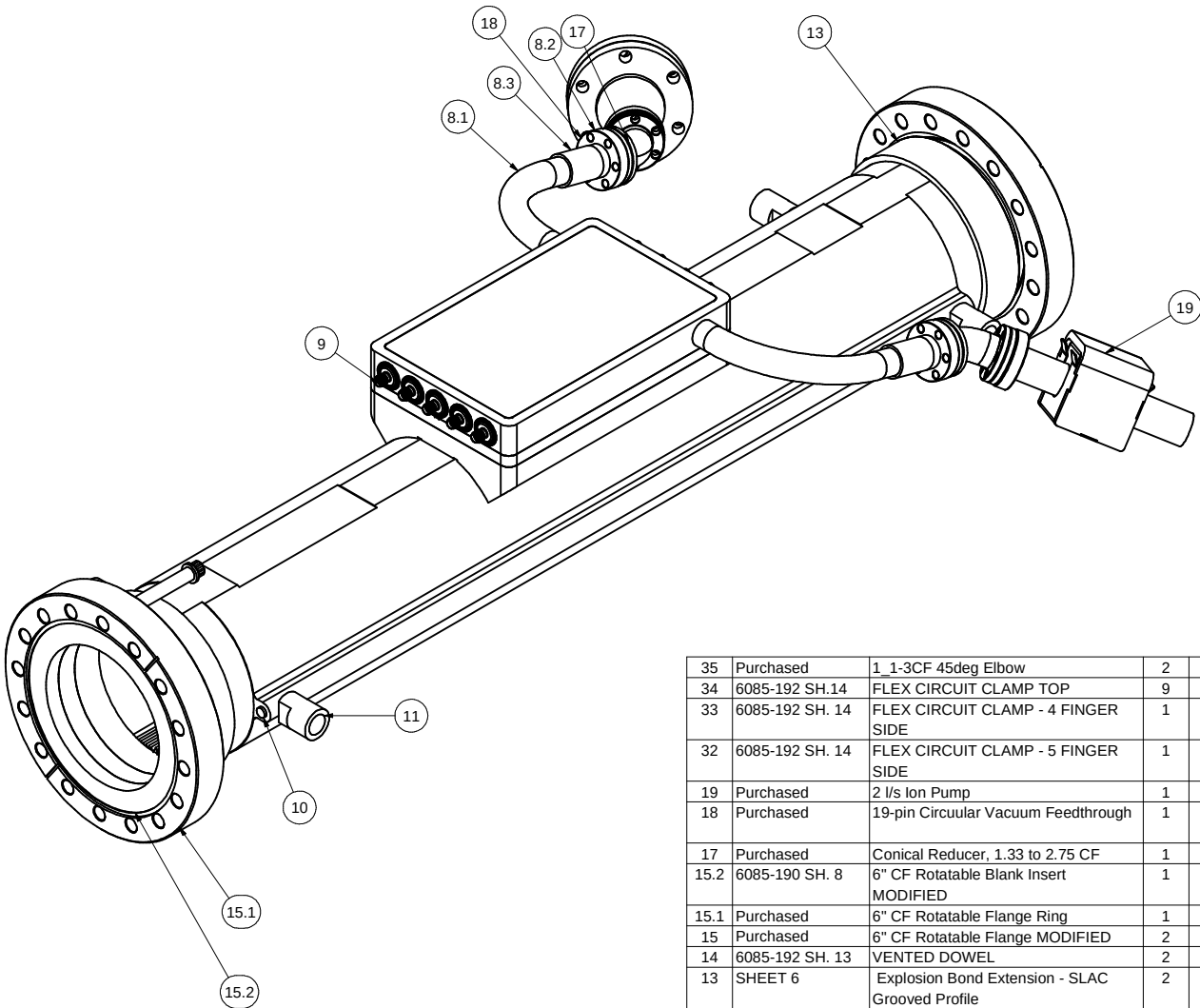
RELEVANT APPROVALS REQUIRED BEFORE FABRICATION.			
	OK	DATE	N/A
VACUUM PROPERTIES:	YL	05/22/2012	
SYNCH. RAD. POWER:	DHR	05/22/2012	
H.O.M. HEATING:	MGB	05/22/2012	
APERTURE CHECKOUT:	DLR	05/22/2012	
INSTALLATION PROCEDURE:	YL	05/22/2012	

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
D	PRINT DISTR.	PLOT DATE: 5/22/2012 CAD FILE NAME: 6085-203.idw										
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES			 CORNELL UNIVERSITY LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			
SH. NO. 1 OF 7		6085-203			Time Resolve EC Dipole Chamber - Grooved Profile							
REV.		CHECKED BY:			DRAWN BY	DRAWN FOR	DATE	SCALE	D	6085-203		REV.
		APPROVED BY:			John Lanzoni		4/24/2012			SH. NO. 1 OF 7		

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



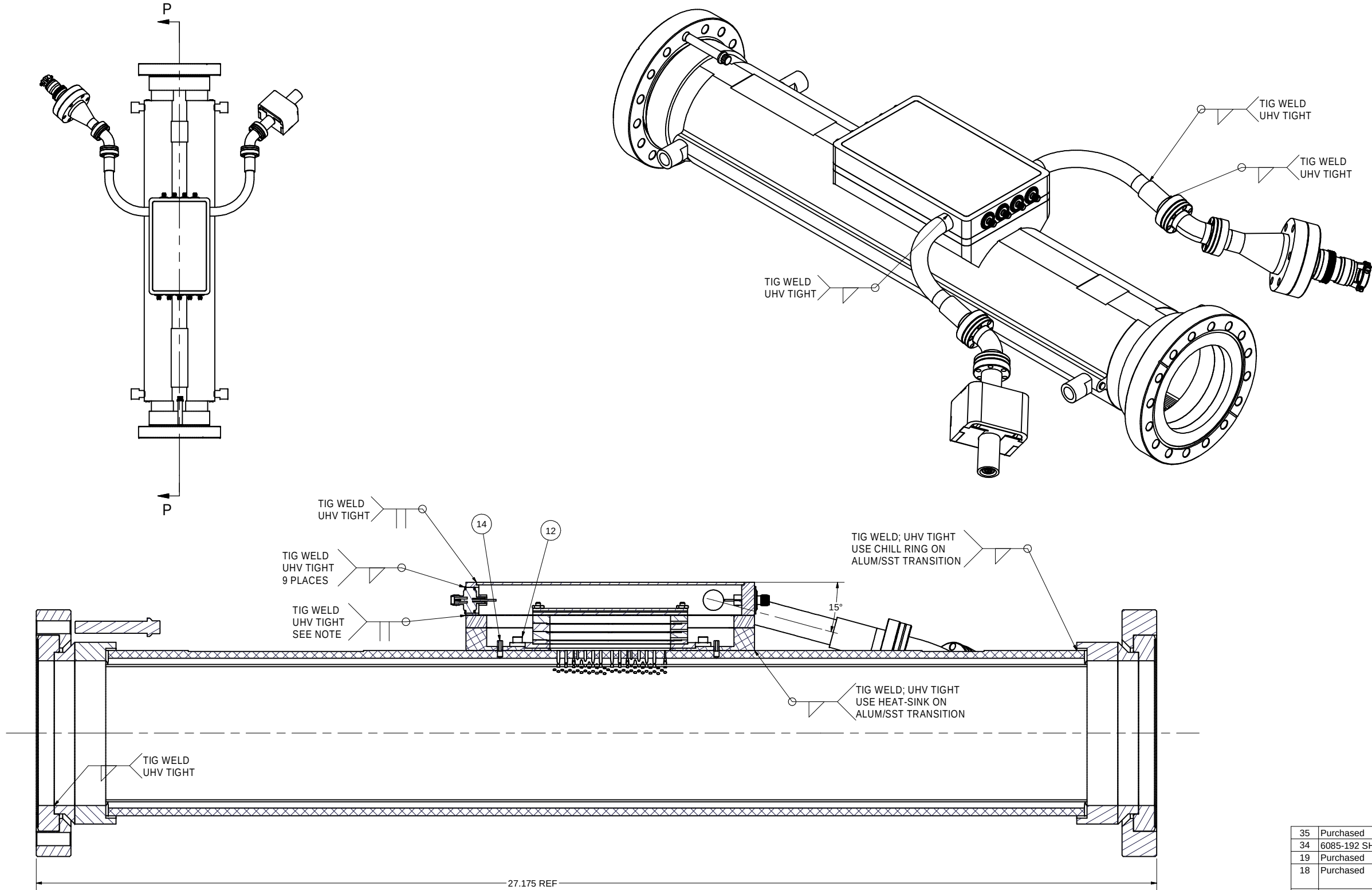
SEE SHEET 3 FOR WELDING INSTRUCTION AND ADDITIONAL PART LIST



35	Purchased	1 1-3CF 45deg Elbow	2				
34	6085-192 SH. 14	FLEX CIRCUIT CLAMP TOP	9				
33	6085-192 SH. 14	FLEX CIRCUIT CLAMP - 4 FINGER SIDE	1				
32	6085-192 SH. 14	FLEX CIRCUIT CLAMP - 5 FINGER SIDE	1				
19	Purchased	2 I/s Ion Pump	1			Varian	
18	Purchased	19-pin Circular Vacuum Feedthrough	1			Solid Sealing Technology	
17	Purchased	Conical Reducer, 1.33 to 2.75 CF	1			MDC PN 402030	
15.2	6085-190 SH. 8	6" CF Rotatable Blank Insert MODIFIED	1				
15.1	Purchased	6" CF Rotatable Flange Ring	1				
15	Purchased	6" CF Rotatable Flange MODIFIED	2			MDC's #100025	
14	6085-192 SH. 13	VENTED DOWEL	2				
13	SHEET 6	Explosion Bond Extension - SLAC Grooved Profile	2				
12	Purchased	Vented 6-32 x 5/16" SHCS	4			McMaster #93235A145	
11	6085-192 SH. 13	SLAC Water Connector	4				
10	6085-192 SH. 12	SLAC Cooling Plug	4				
9	Purchased	SST 50 ohm SMA Feedthru	9			SST FA10824	
8.3	6085-192 SH. 14	Elbow - Flange Adaptor	1				
8.2	Purchased	1-1/3" CF Non Rotatable 3/4" Stub Flange	1			MDC's #110004	
8.1	6085-192 SH. 14	Elbow	1				
8	6085-192 SH. 2	FeedThru Elbow Asm	2				
7	6085-192 SH. 6	Top Plate	1				
6	6085-192 SH. 6	FeedThru Box	1				
4	SHEET 4	RFA Housing	1				
2.10	6085-192 SH. 9	CeramicTop	1				
2.9	PURCHASED	4-40 Nut	4				
2.8	6085-192 SH. 13	Assembly Pin	4				
2.7	6085-192 SH. 10	Assembly Layer	1				
2.6	6085-192 SH. 10	Top Shield	1				
2.5	6085-131 SH. 8	Time Resolve Grid	3				
2.4	6085-192 SH. 9	Collector Spacing Layer	1				
2.3	6085-192 SH. 8	Grid Layer	2				
2.2	6085-192 SH. 7	Bottom Layer	1				
2.1	6085-192 SH. 12	Time Resolve Flex Circuit Collectors	1				
2	SHEET 2	Dipole Time Resolve RFA Asm	1				
1	SHEET 5	Dipole TR SLAC Grooved Beampipe	1				

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
D	PRINT DISTR.	PLOT DATE: 5/22/2012										
		CAD FILE NAME: 6085-203.idw										
SH. NO. 2 OF 7	6085-203	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES		CORNELL UNIVERSITY L E P P CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853							
					Time Resolve EC Dipole Chamber - Grooved Profile							
REV.		CHECKED BY:		DRAWN BY	DRAWN FOR	DATE	SCALE	D	6085-203		REV.	
		APPROVED BY:		John Lanzoni		4/24/2012			SH. NO. 2 OF 7			

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



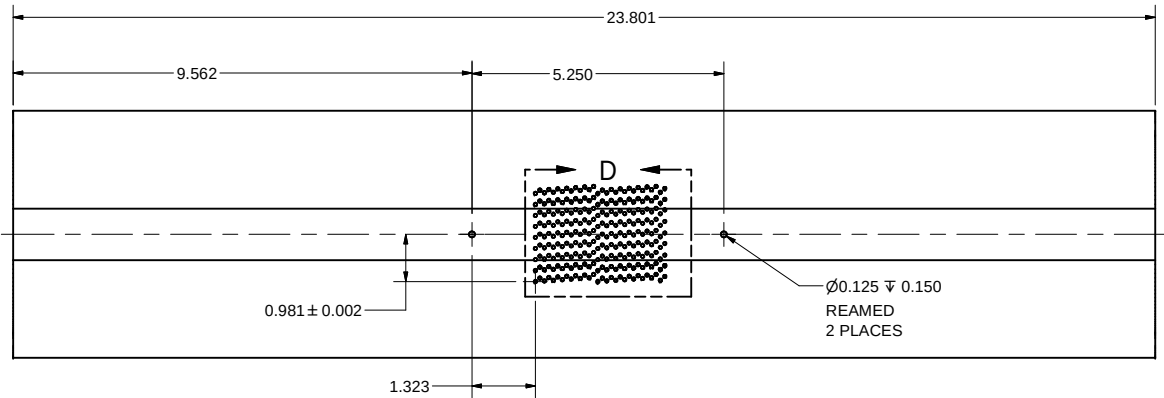
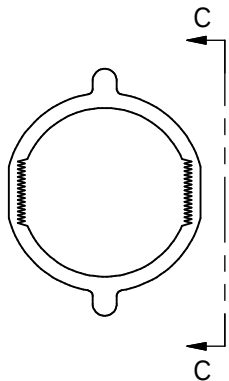
SECTION P-P
SCALE .75

NOTE:
1. RFA HOUSING IS NOT SYMMETRIC. ORIENT EVENLY OVER RFA HOLE PATTERN.

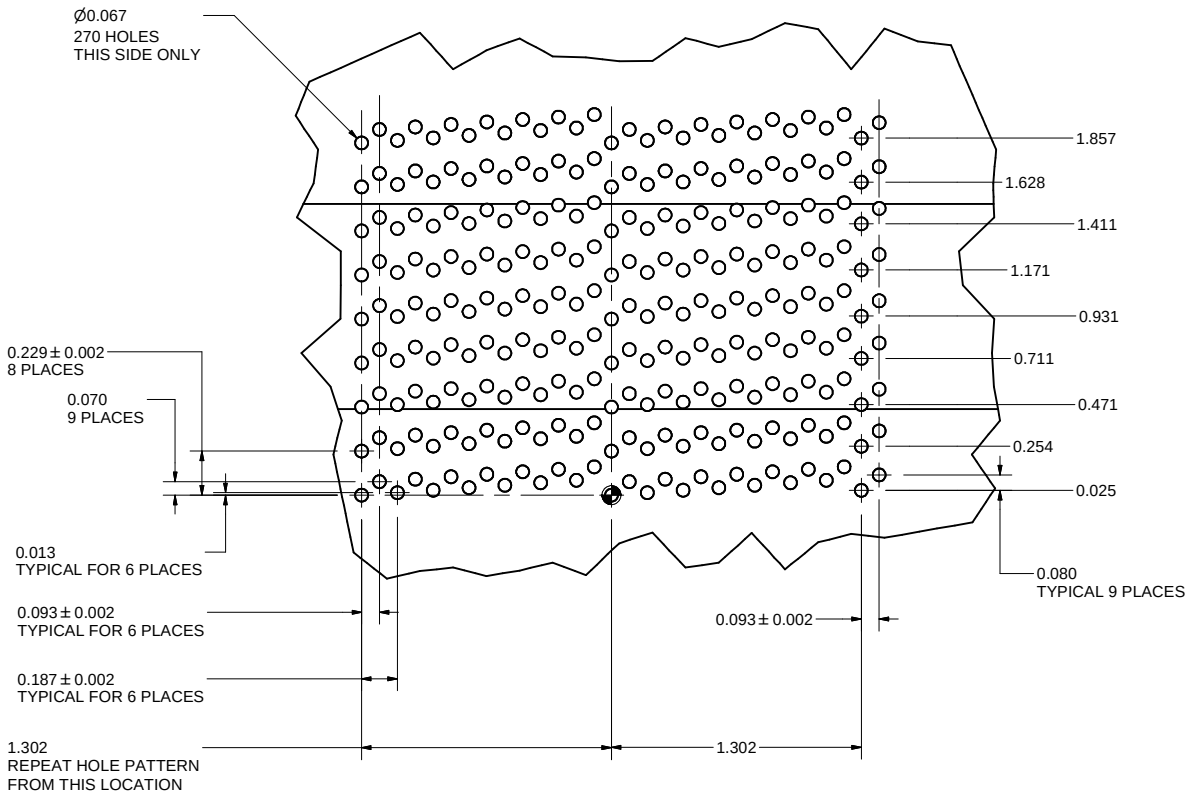
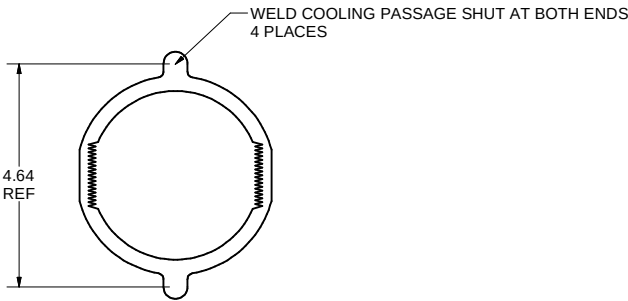
35	Purchased	1 1-3CF 45deg Elbow	2				
34	6085-192 SH.14	FLEX CIRCUIT CLAMP TOP	9				
19	Purchased	2 I/s Ion Pump	1			Varian	
18	Purchased	19-pin Circular Vacuum Feedthrough	1			Solid Sealing Technology	
17	Purchased	Conical Reducer, 1.33 to 2.75 CF	1			MDC PN 402030	
14	6085-192 SH. 13	VENTED DOWEL	2				
12	Purchased	Vented 6-32 x 5/16" SHCS	4			McMaster #93235A145	
9	Purchased	SST 50 ohm SMA Feedthru	9			SST FA10824	
8.1	6085-192 SH. 14	Elbow	2				

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
D	PRINT DISTR.	PLOT DATE: 5/22/2012 CAD FILE NAME: 6085-203.idw										
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES		CORNELL UNIVERSITY  LEPP CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS Time Resolve EC Dipole Chamber - Grooved Profile								
SH. NO. 3 OF 7	6085-203			CHECKED BY:	DRAWN BY	DRAWN FOR	DATE	SCALE	D	6085-203		REV.
REV.				APPROVED BY:	John Lanzoni		4/24/2012			SH. NO. 3 OF 7		

REVISIONS				1
SYM.	ZONE	DESCRIPTION	DATE	APP.



VIEW C-C
SCALE 1 / 2



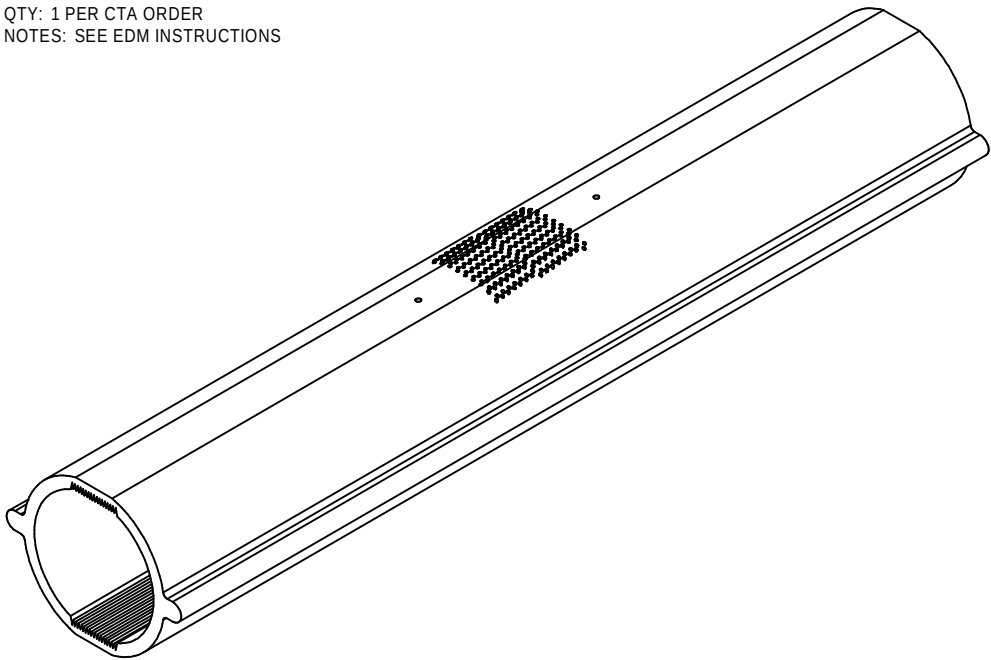
DETAIL D
SCALE 2 : 1

EDM INSTRUCTIONS:

- PART WILL BE CUT TO LENGTH AND Ø.125 LOCATING HOLES DRILLED BY LEPP.
- LOCATING PINS WILL ALSO BE INSTALLED BY LEPP.
- SOLVENT CLEAN BOTH ENDS BEFORE WELDING TO ENSURE NO EDM FLUID GETS INTO COOLING CHANNELS.
- VENDOR TO USE TYPICAL IN HOUSE PROCEDURES TO REMOVE EDM FLUID.
- PART MUST BE STEAM CLEANED BY LEPP UPON RETURN.

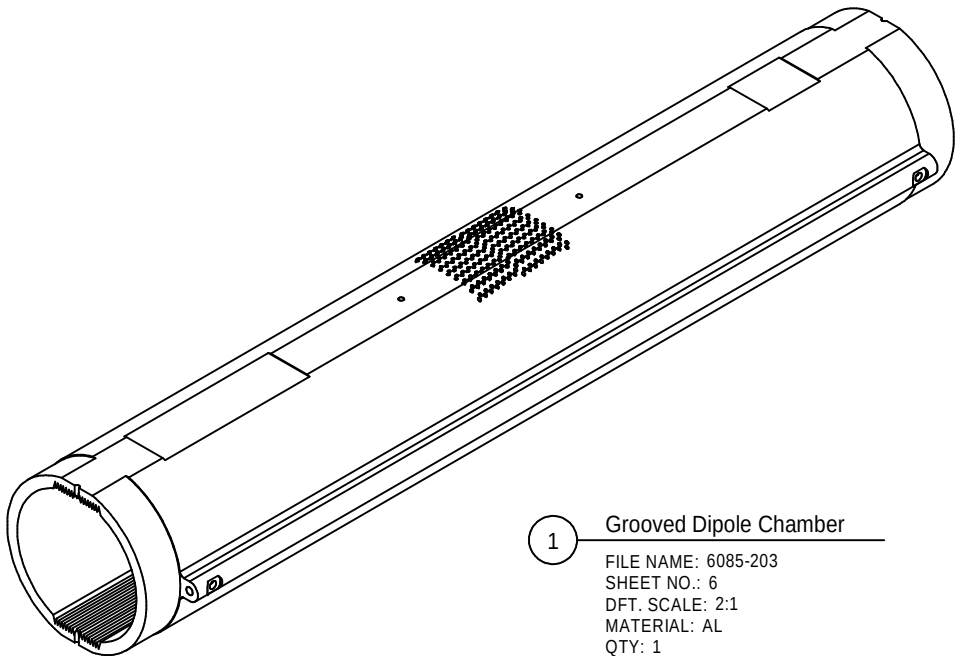
2 Dipole Time Resolved Grooved Beampipe - EDM Machining

FILE NAME: 6085-203
SHEET NO.: 5
DFT. SCALE: 1:2
MATERIAL: Aluminum SLAC Grooved Extrusion
QTY: 1 PER CTA ORDER
NOTES: SEE EDM INSTRUCTIONS



		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.		
								QUANTITY						
	PRINT DISTR.	PLOT DATE: 5/22/2012 CAD FILE NAME: 6085-203.idw												
	6085-203 SH. NO. 5 OF 7	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES ✓		 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 Time Resolve EC Dipole Chamber - Grooved Profile DIPOLE TR GROOVED BEAMPIPE - EDM MACHINING									
REV.		CHECKED BY: APPROVED BY:		DRAWN BY John Lanzoni		DRAWN FOR		DATE 4/24/2012		SCALE		D	6085-203 SH. NO. 5 OF 7	REV.

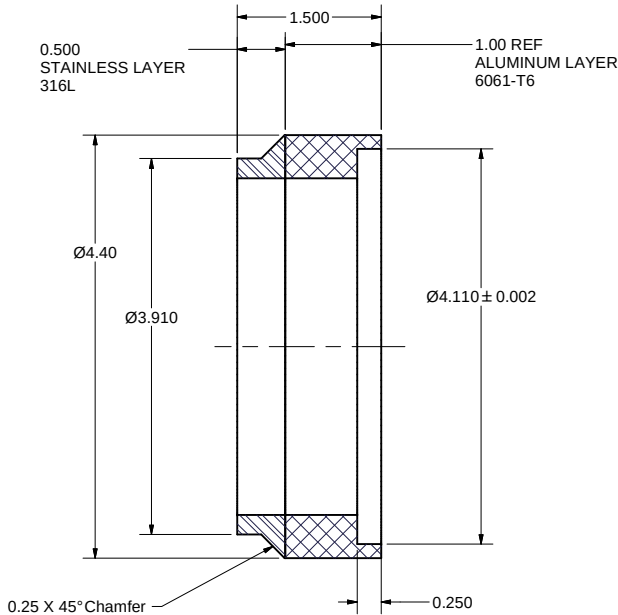
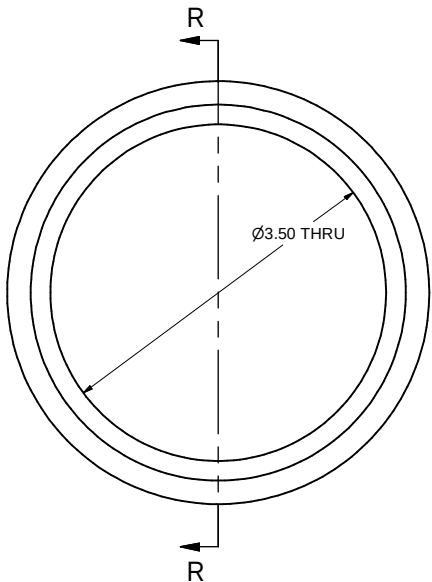
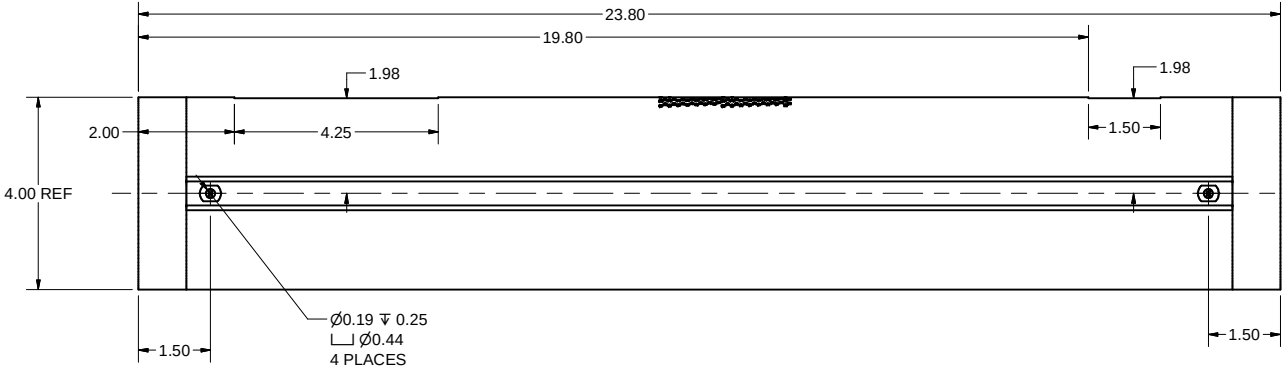
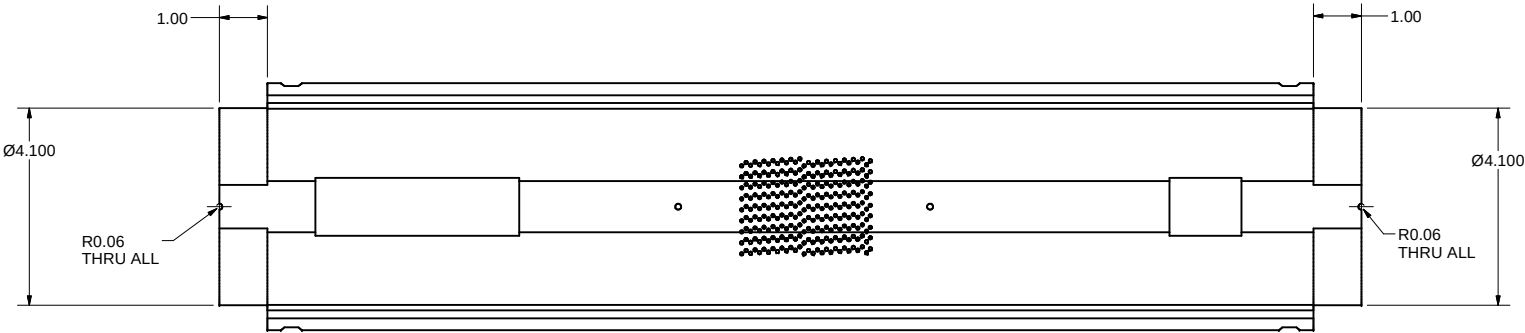
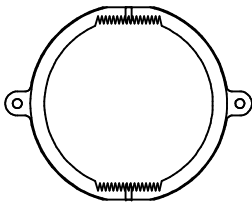
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



1

Grooved Dipole Chamber

FILE NAME: 6085-203
SHEET NO.: 6
DFT. SCALE: 2:1
MATERIAL: AL
QTY: 1
NOTES: COMPLETE STEPS ON SHEET 5 BEFORE FEATURES SHOWN



SECTION R-R
SCALE 1 : 1

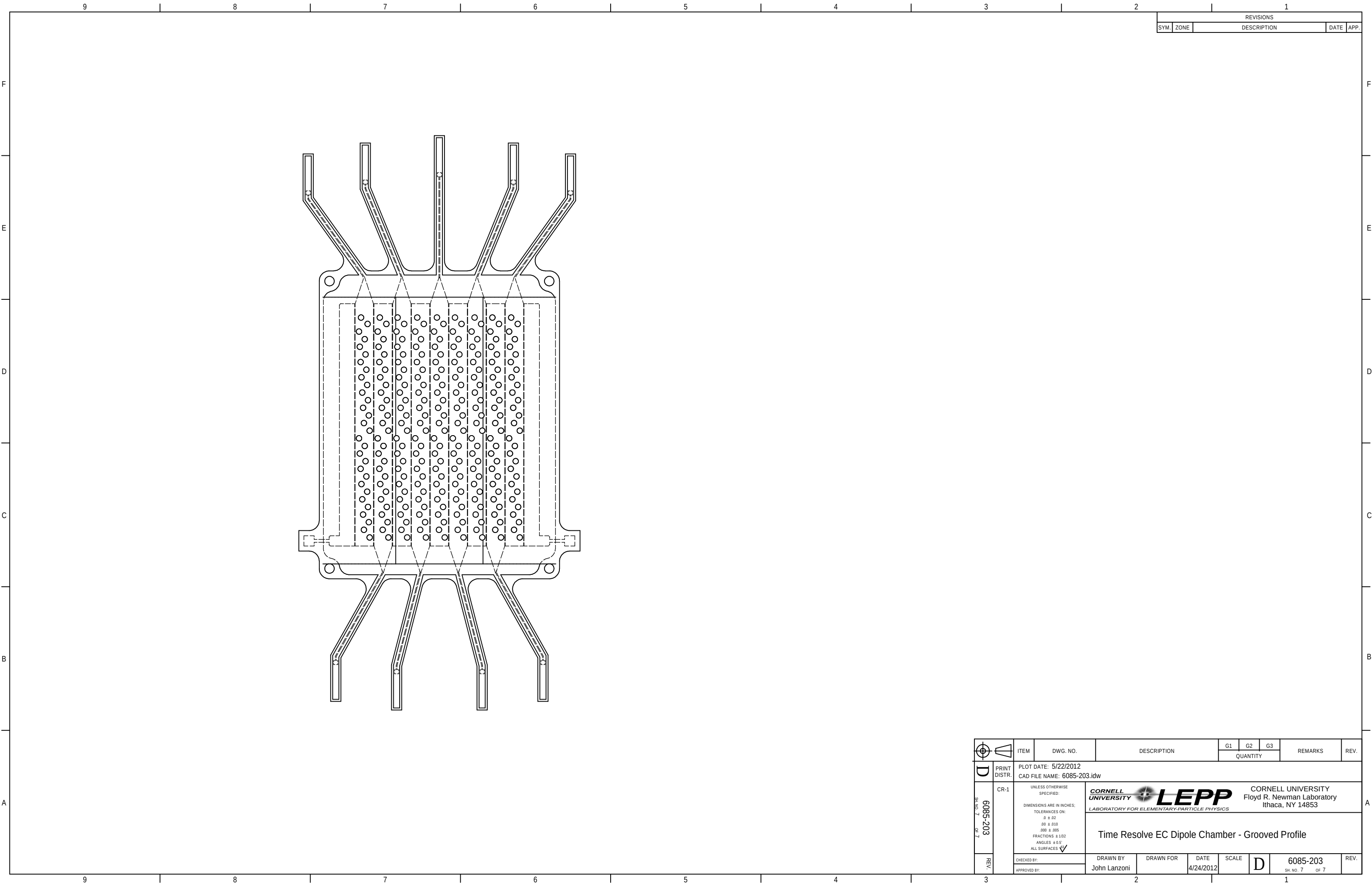
13

EXPLOSION BOND EXTENSION - GROOVED PROFILE

FILE NAME: 6085-203
SHEET NO.: 6
DFT. SCALE: 1:1
MATERIAL: AL-SS EXPLOSION BOND
QTY: 1
NOTES: 1. THIS PART MUST BE THERMALLY CYCLED BETWEEN 200C AND R.T 3X
2. LEAK CHECK AFTER THERMAL CYCLES BEFORE USE

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
		QUANTITY									
	PRINT DISTR.	PLOT DATE: 5/22/2012 CAD FILE NAME: 6085-203.idw									
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES ✓			 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 Time Resolve EC Dipole Chamber - Grooved Profile						
SH. NO. 6 OF 7 6085-203	REV.	CHECKED BY:		DRAWN BY	DRAWN FOR	DATE	SCALE		6085-203	SH. NO. 6 OF 7	REV.
	APPROVED BY:		John Lanzoni		4/24/2012						

Time Resolve EC Dipole Chamber - Grooved Profile



REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
		QUANTITY									
D	PRINT DISTR.	PLOT DATE: 5/22/2012 CAD FILE NAME: 6085-203.idw									
		6085-203 SH. NO. 7 OF 7	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 			 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853				
REV.	CHECKED BY: APPROVED BY:			DRAWN BY John Lanzoni	DRAWN FOR	DATE 4/24/2012	SCALE D	6085-203 SH. NO. 7 OF 7		REV.	

Time Resolve EC Dipole Chamber - Grooved Profile