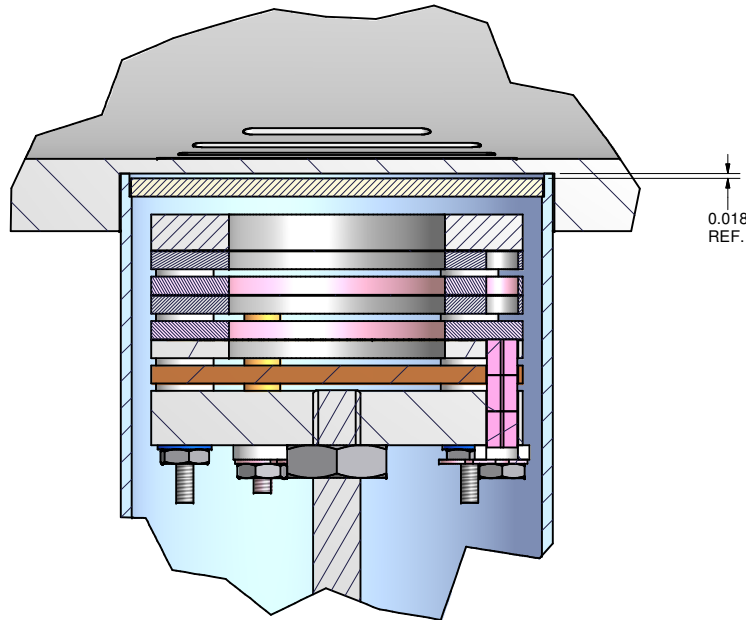
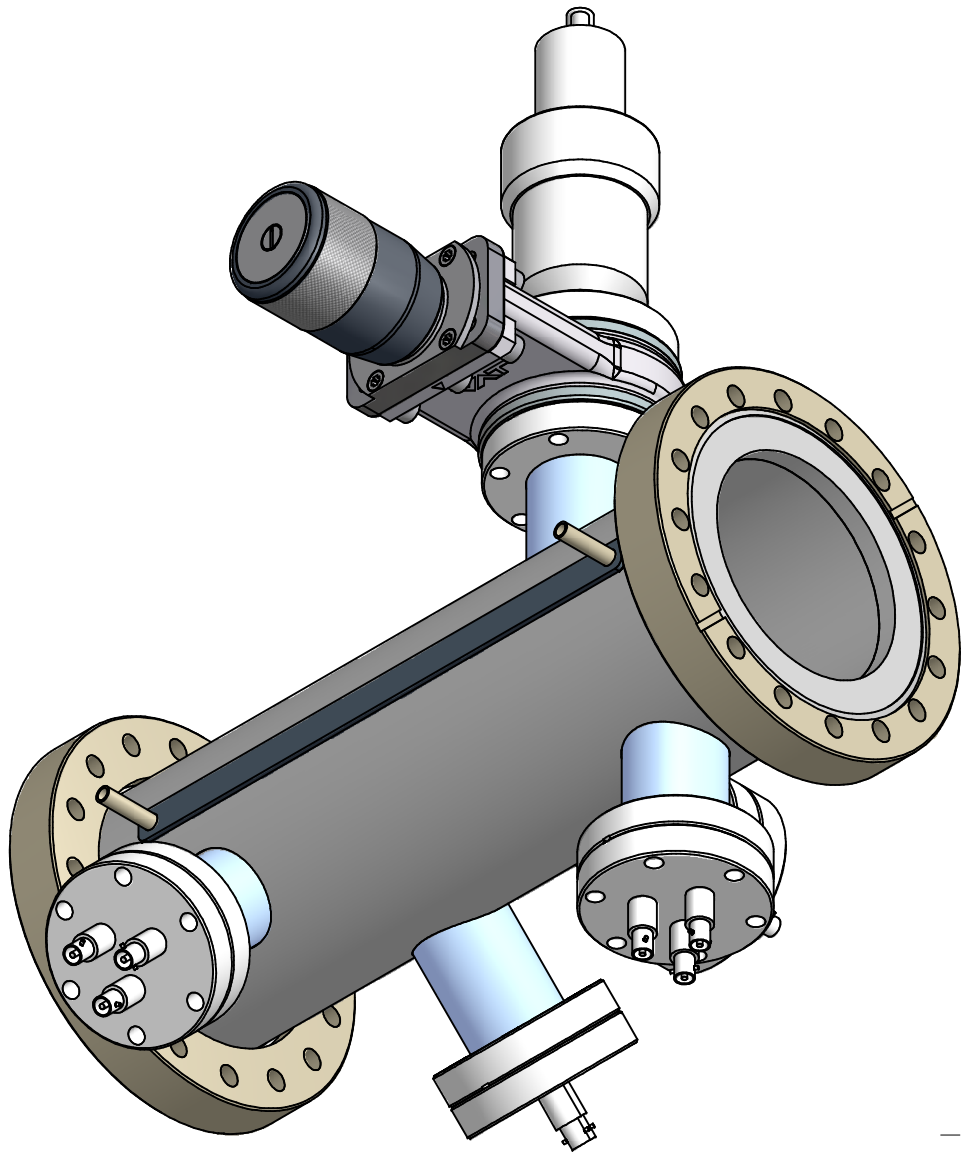
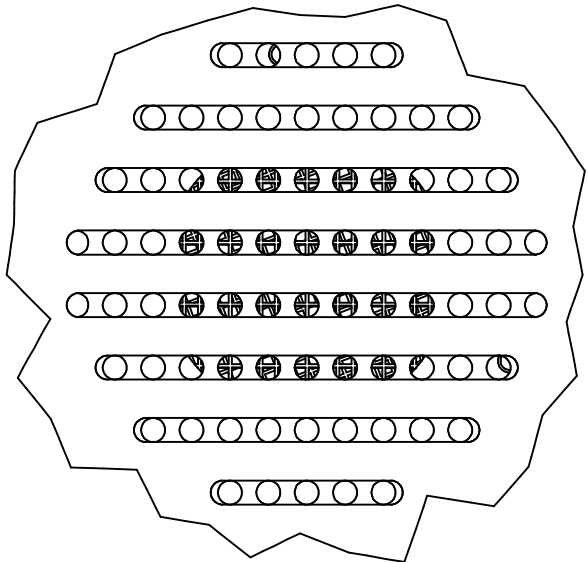


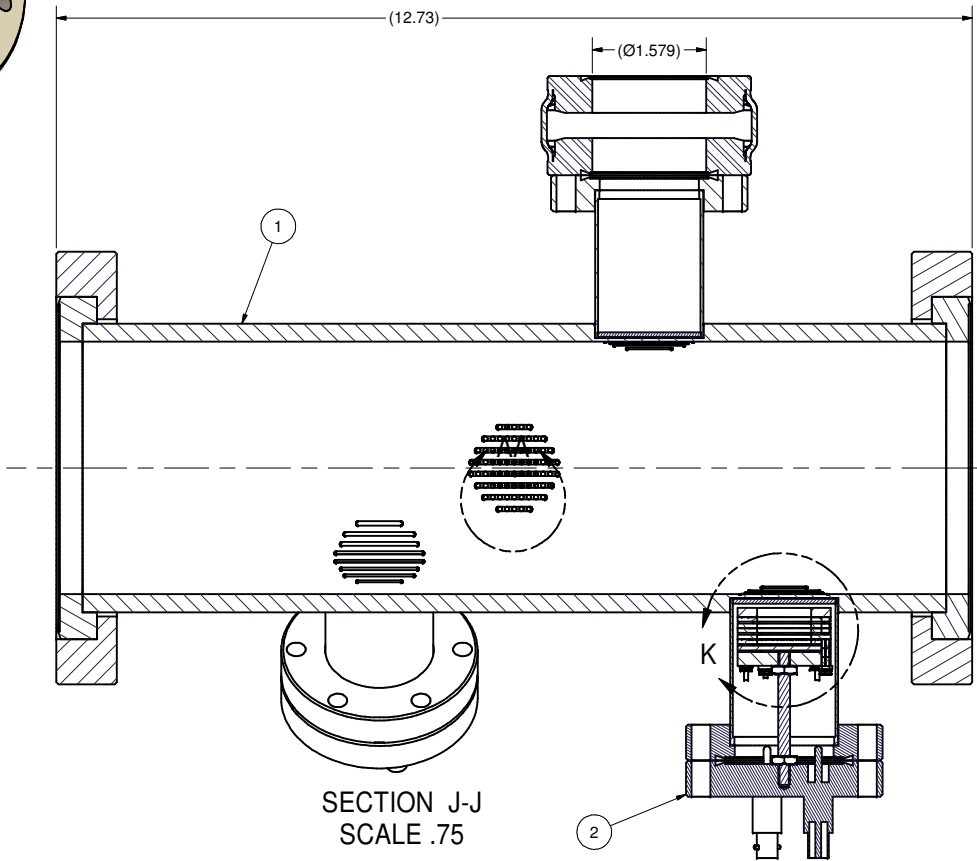
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		REFLECTS REVISED PARTS TMK	3/15/07	YL
B		Added a VAT Mini UHV Gate Valve, Part 10	11/16/07	Y.LI



DETAIL K
SCALE 3 : 1



DETAIL AA
SCALE 4 : 1



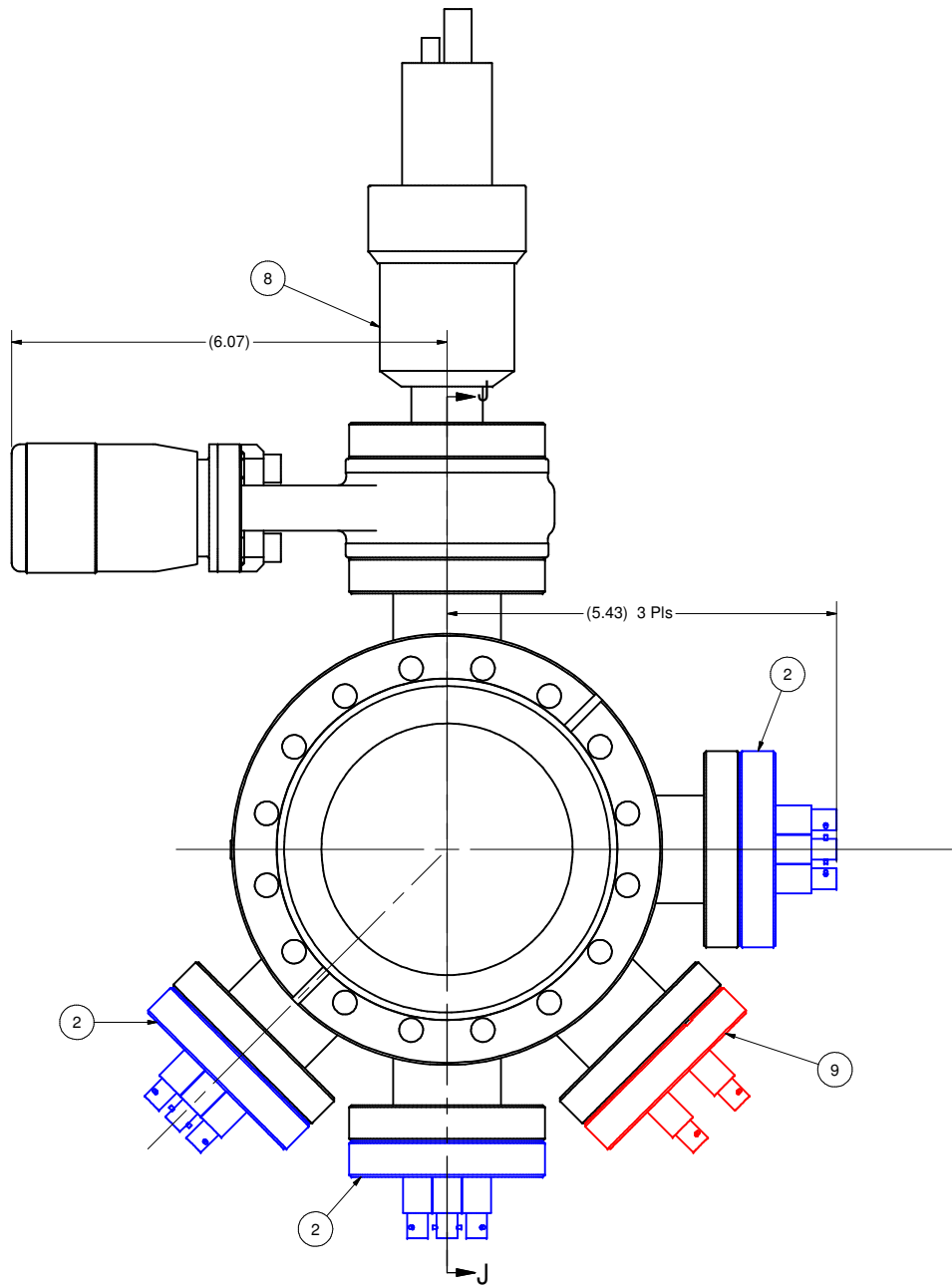
SECTION J-J
SCALE .75

L3 Beam Pipe Assembly W/ RFA

FILE NAME: 6085-002
SHEET NO.: 1
DFT. SCALE: 1:1
MATERIAL: AS NOTED
QTY: AS REQ'G
NOTES:

FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			



10	Purchased	VAT Mini UHV Gate Valve	1			P/N 01032-UE01	
9	6085-004	Plasma RF Pickup Assembly	1				
8	VacLab Stock	HPS Cold Cathode Gauge	1				
2	6085-001	APS RFA Assembly	3				
1	6085-002-Sh.2	L3 RFA Beam Pipe Assembly	1				

ITEM	DWG. NO.	DESCRIPTION	QUANTITY	REMARKS	REV.
			G1 G2 G3		

PLOT DATE: 11/26/2007
CAD FILE NAME: 6085-002.idw

PRINT
DISTR.
D
6085-002
SH. NO. 1 OF 5
REV. B

UNLESS OTHERWISE
SPECIFIED:
DIMENSIONS ARE IN INCHES:
TOLERANCES ON:
.00 ± .010
.000 ± .005
FRACTIONS ± 1/64
ANGLES ± 0.5°
ALL SURFACES

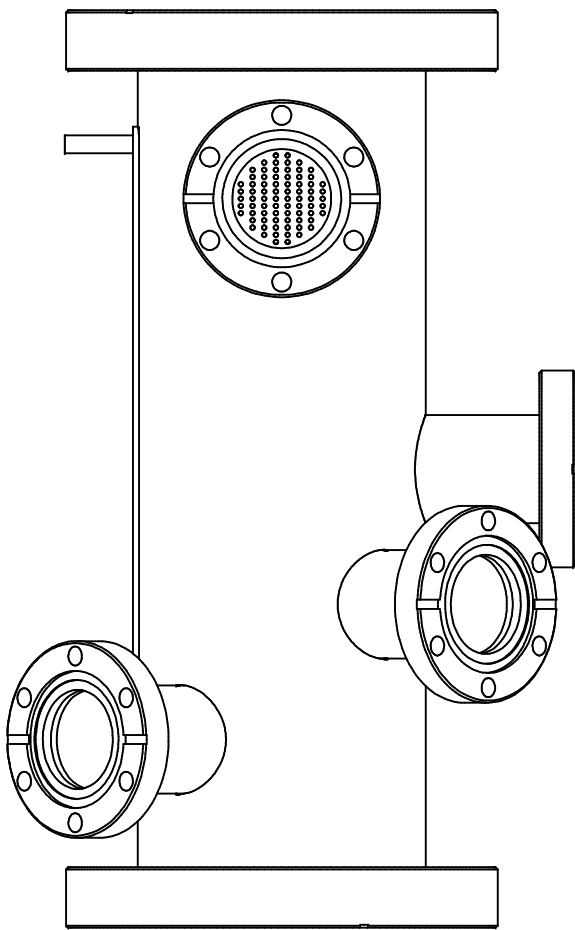
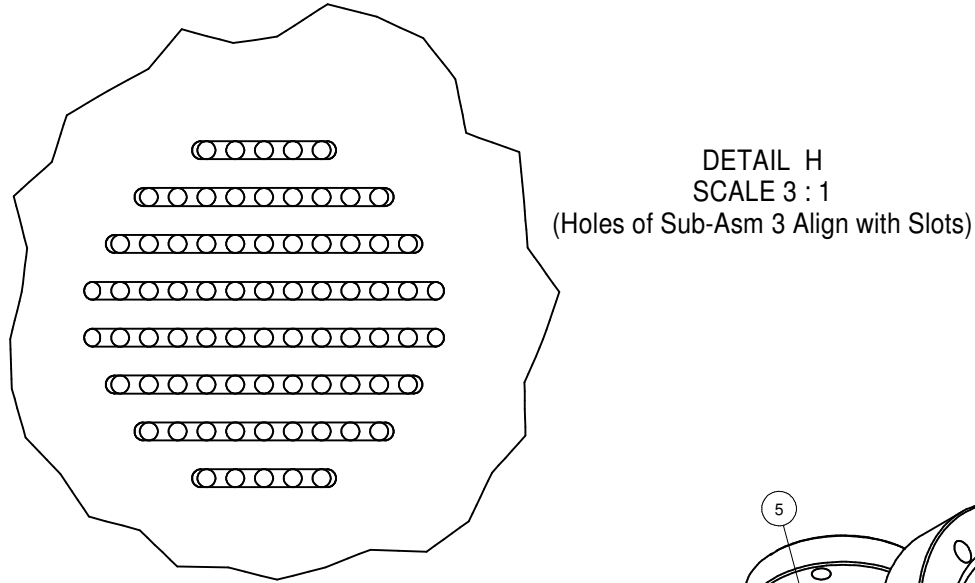
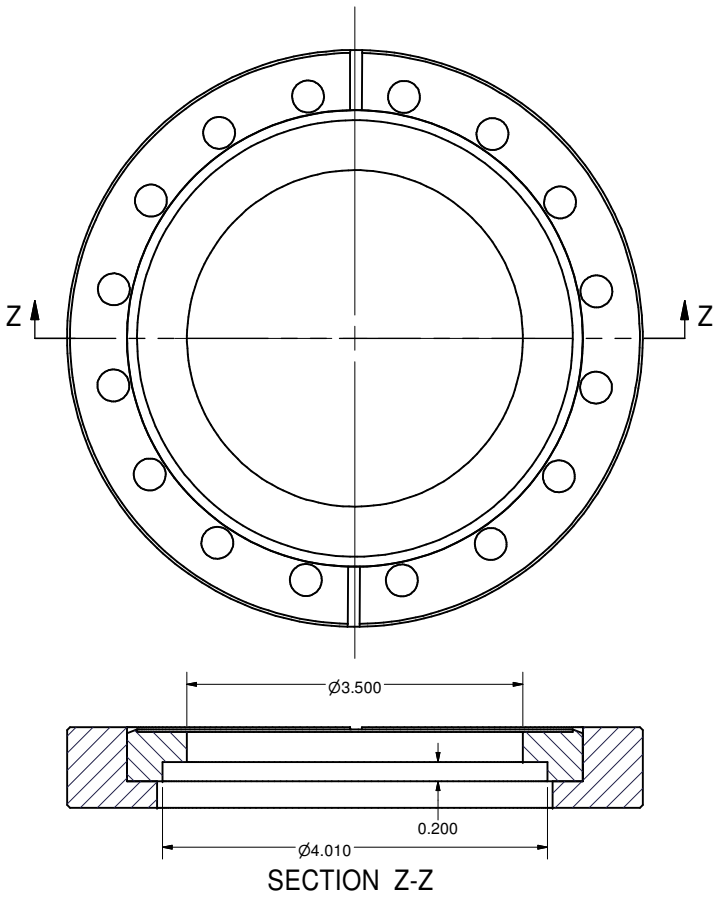
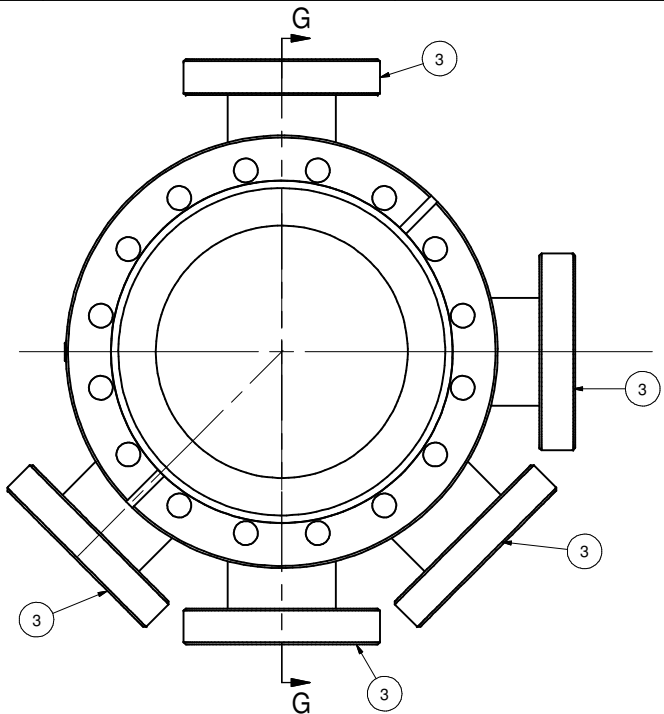
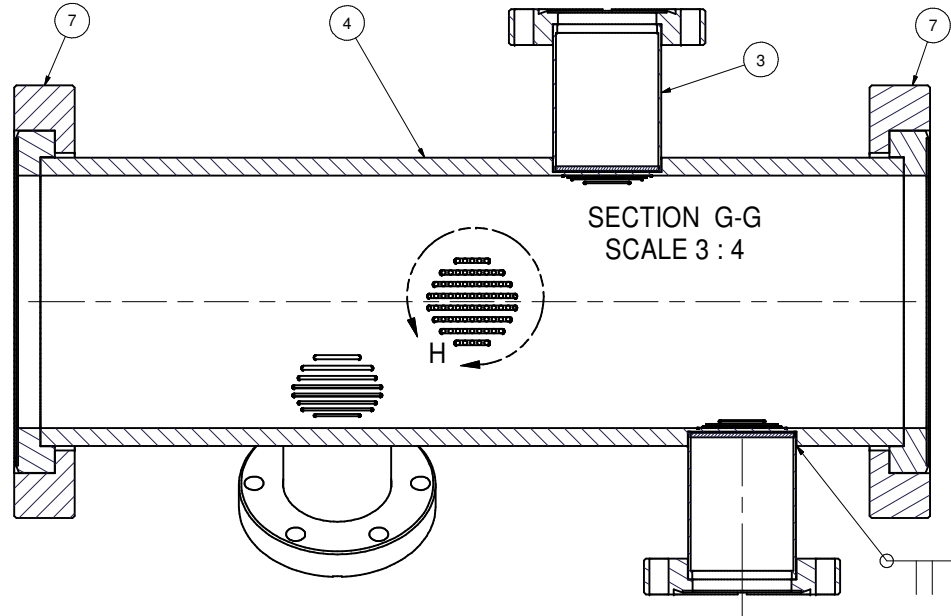


CORNELL UNIVERSITY
Floyd R. Newman Laboratory
Ithaca, NY 14853

L3 Beam Pipe for Retarded-Field Analyzer
Beam Pipe Assembly W/ RFA Details

CHECKED BY: YL	DRAWN BY Yulin Li	DRAWN FOR Yulin Li	DATE 10/24/2006	SCALE D	6085-002 SH. NO. 1 OF 5	REV. B
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REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		PT.1 REFLECTS CHANGES IN PTS. 4 AND 6. TMK	3/15/07	YL



1 Beam Pipe Assembly
FILE NAME: 6085-002
SHEET NO.: 2
DFT. SCALE: 1:1
MATERIAL: As Noted
QTY: 1
NOTES: Ensure the rows of holes line up with slots on the pipe

FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	QUANTITY	REMARKS	REV.
7	Sheet 2	Beam Pipe End Flange	1					
6	Sheet 5	Cooling Cover Strip	1					
5	Sheet 5	1/4" Cooling Tube	2					
4	Sheet 5	Beam Pipe	1					
3	Sheet 4	RFA Port Sub-Asm	5					
1	Sheet 2	Beam Pipe Assembly	1					

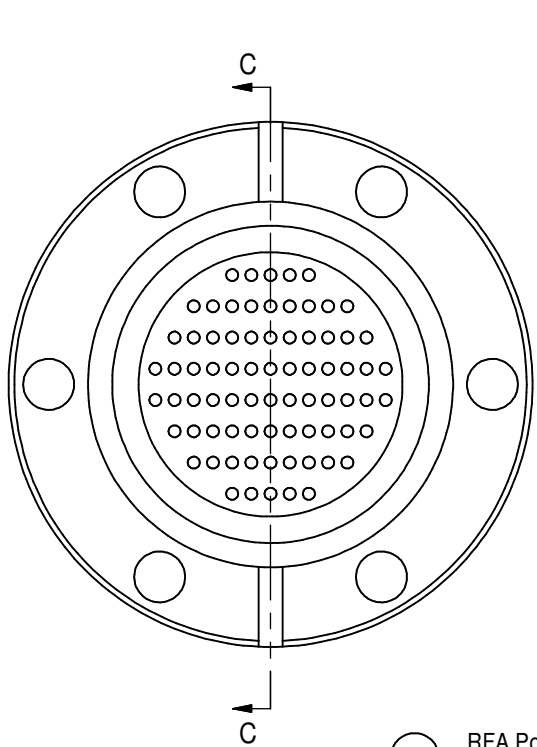
PLOT DATE: 11/26/2007 CAD FILE NAME: 6085-002.idw										
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± .5° ALL SURFACES ✓		 LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS		CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853						
				L3 Beam Pipe for Retarded-Field Analyzer Beam Pipe Assembly Details						
CHECKED BY: YL		DRAWN BY Yulin Li		DATE 10/24/2006		SCALE D		6085-002 SH. NO. 2 OF 5		REV. A
APPROVED BY: YL										

TIG Weld Leak Proof
(2 Places)

SCALE 3 : 4

TIG Weld
Leak Proof

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



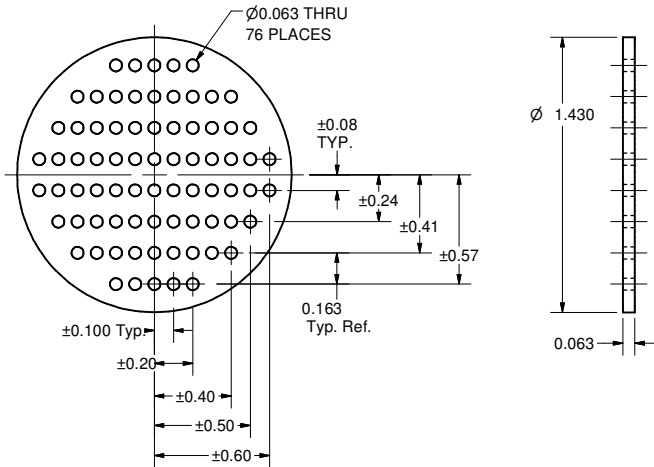
TIG Weld
UHV Tight

Tack Weld
3 PLCS

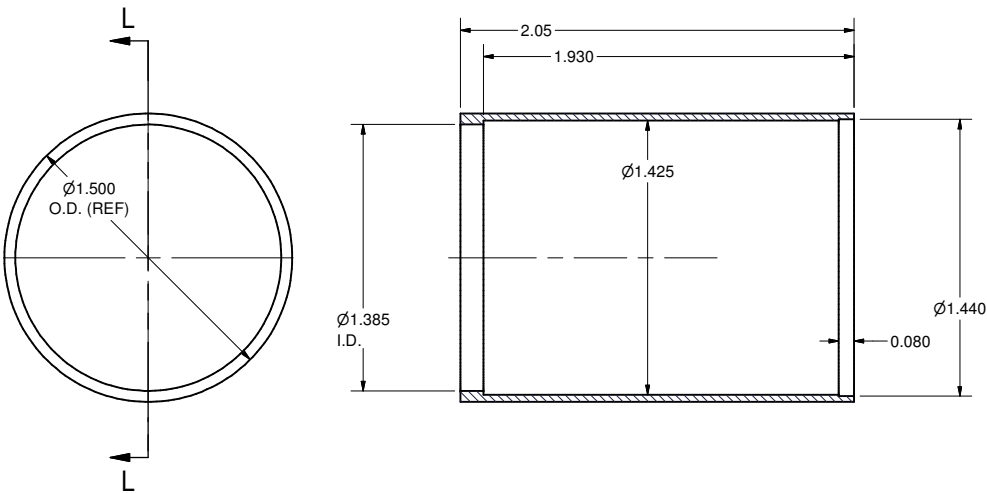
SECTION C-C
SCALE 2 : 1

(2.26)

3.0 RFA Port Sub-Asm
FILE NAME: 6085-002
SHEET NO.: 4
DFT. SCALE: 2 : 1
MATERIAL: 304L SST
QTY: 5
NOTES:



3.2 RFA Port End Disk
FILE NAME: 6085-002
SHEET NO.: 4
DFT. SCALE: 2:1
MATERIAL: 304L SST
QTY: 1 Per Sub-Asm
NOTES: 1) Hole pattern is dimensionally identical
about Horiz. and Vert. centerlines.



3.1 RFA Port SST Tube
FILE NAME: 6085-002
SHEET NO.: 4
DFT. SCALE: 2:1
MATERIAL: 304L SST, Vac. Quality Tube
QTY: 1 Per Sub-Asm
NOTES:

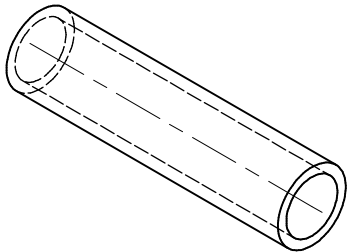
FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connel):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

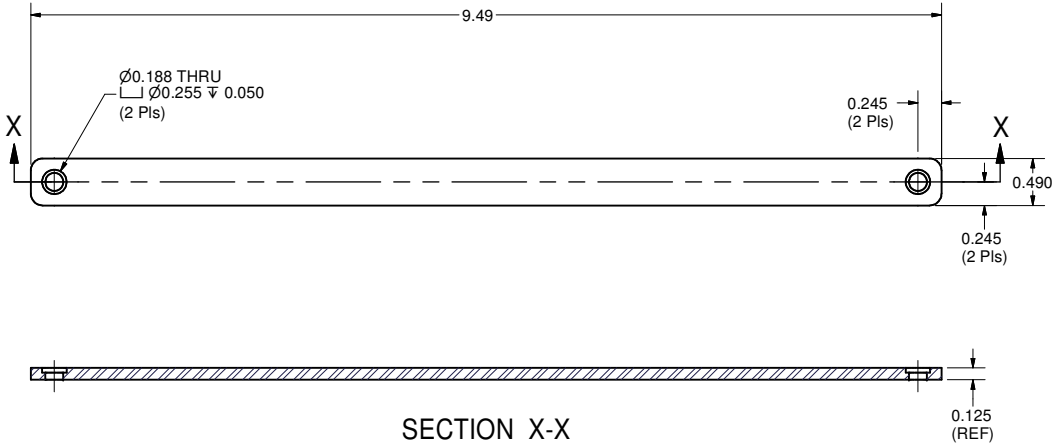
PRINT DISTR.	CR-1	REV.
6085-002	SH. NO. 4 OF 5	

3.3	VacLab Stock	2-3/4" Non-Rot Flange, 1.50 Nom. Bore	1			K.J. Lesker PN F0275X0150N	
3.2	Sheet 4	RFA Port End Disk	1				
3.1	Sheet 4	RFA Port SST Tube	1				
3.0	Sheet 4	RFA Port Sub-Asm	X				
ITEM	DWG. NO.	DESCRIPTION	QUANTITY			REMARKS	REV.
			G1	G2	G3		
PLOT DATE: 11/26/2007 CAD FILE NAME: 6085-002.idw							
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES		CORNELL UNIVERSITY LEPP LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853					
L3 Beam Pipe for Retarded-Field Analyzer RFA Port Sub-Asm Details							
CHECKED BY: YL	DRAWN BY: Yulin Li	DRAWN FOR: Yulin Li	DATE: 10/24/2006	SCALE: D	6085-002	REV.	
APPROVED BY: YL					SH. NO. 4 OF 5		

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		PT. 6 WAS LENGTHENED. TMK	3/15/07	YL



5 1/4" Cooling Tube
FILE NAME: 6085-002
SHEET NO.: 5
DFT. SCALE: 4:1
MATERIAL: 304L SST, Vac Quality Tube 0.25 O.D. X .031 Wall X 1.00 Long
QTY: 2
NOTES:



6 Cooling Strip
FILE NAME: 6085-002
SHEET NO.: 5
DFT. SCALE: 1:1
MATERIAL: 304L SST, 1/8" THK
QTY: 1
NOTES:

FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connel):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
		QUANTITY									
		PRINT DISTR.	PLOT DATE: 11/26/2007 CAD FILE NAME: 6085-002.idw								
		D 6085-002 SH. NO. 5 OF 5	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES			 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853				
CHECKED BY: YL APPROVED BY: YL	DRAWN BY Yulin Li			DRAWN FOR Yulin Li	DATE 10/24/2006	SCALE D	6085-002 SH. NO. 5 OF 5		REV. A		

L3 Beam Pipe for Retarded-Field Analyzer
Cooling Part Details