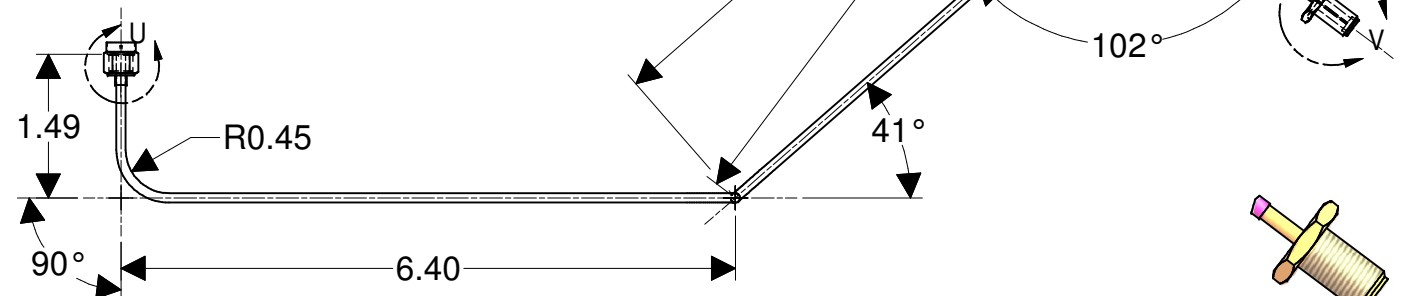


Notes:

1. All Semi-Rigid bend radii are 0.5" from center of conductor.
3. Each cable shall have a part number label at each end.
4. Bulkhead Nut and lock washer not shown.



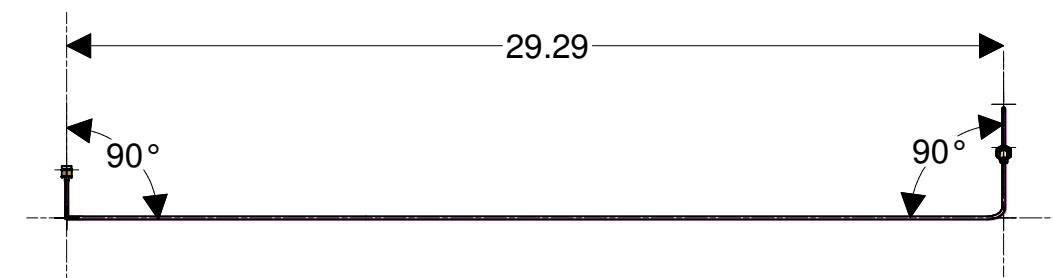
DETAIL U  
SCALE 2 : 1



SCALE 1 : 1









DETAIL V  
SCALE 2 : 1



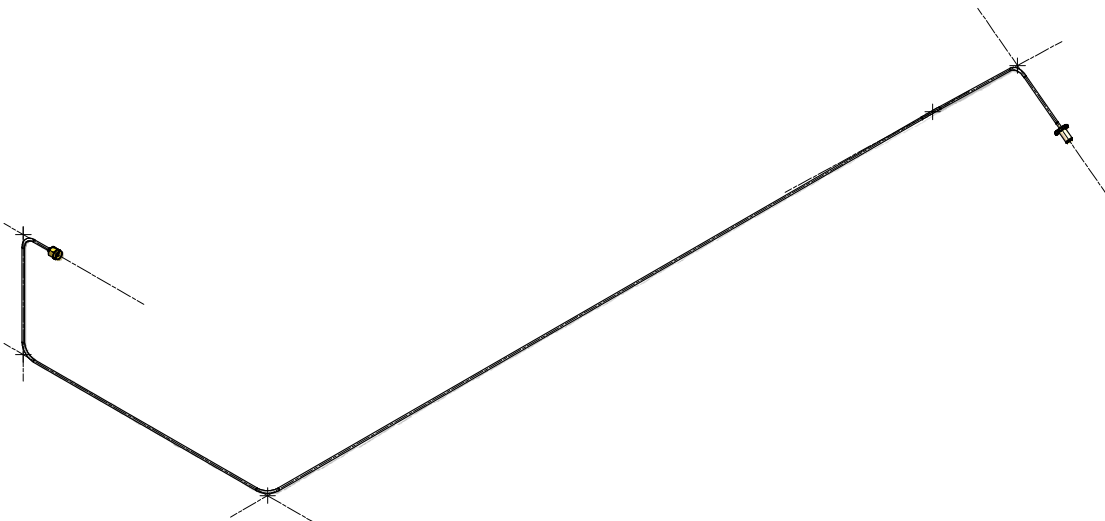
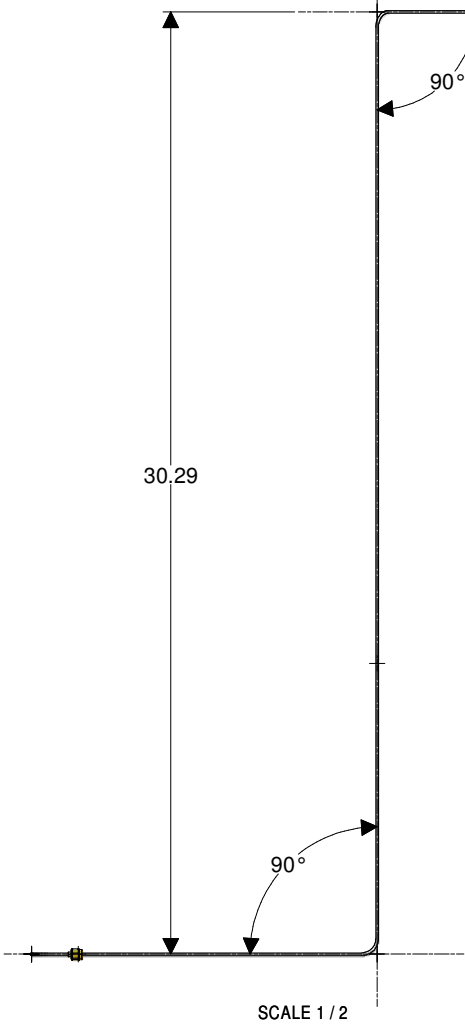
SCALE 1 / 3

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):			

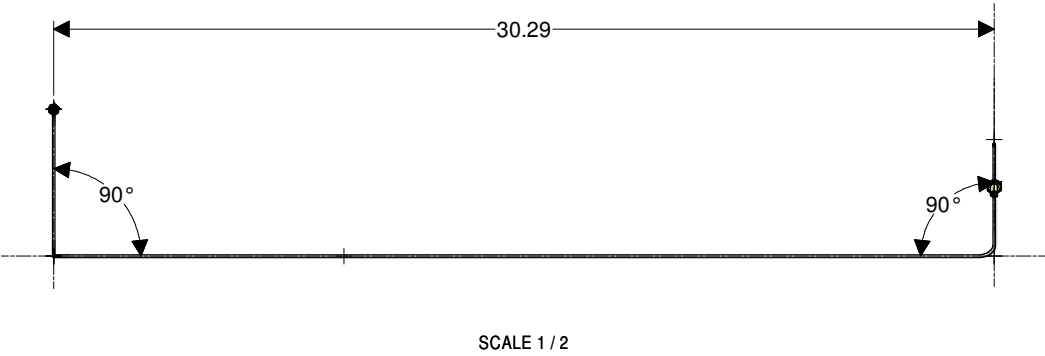
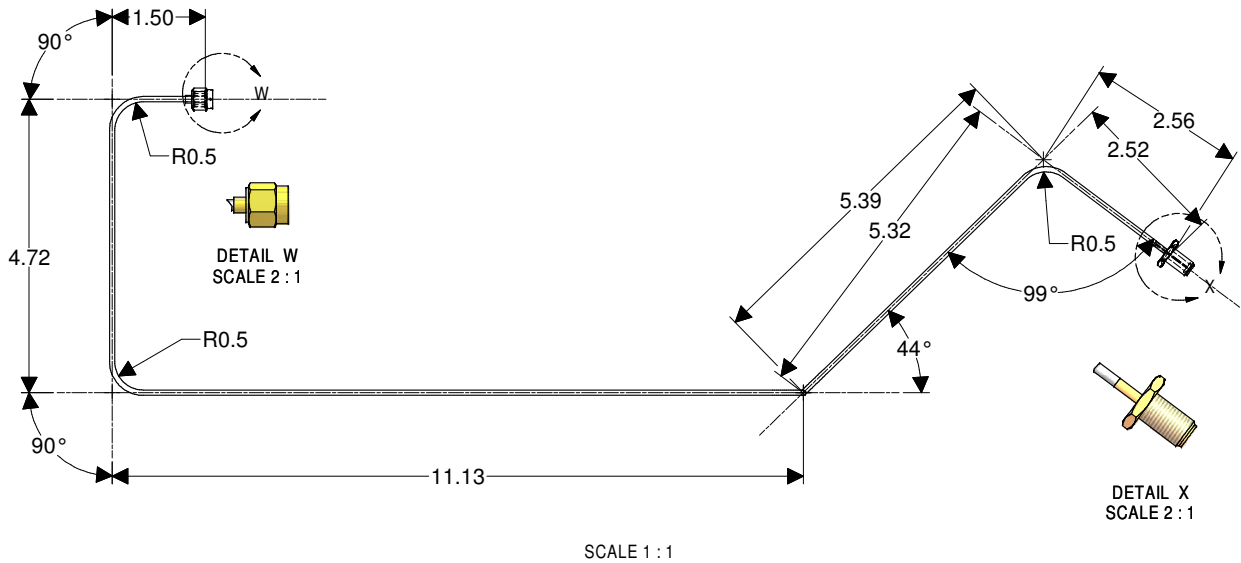
 	ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
				QUANTITY						
	PRINT DISTR.	PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw								
7102-065-SRC <small>SECTION 1 OF 31</small>	UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ±.010 .000 ±.005 FRACTIONS 1/164 ANGLES ±0.5° ALL SURFACES 		 CORNELL UNIVERSITY <b>LEPP</b> LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853				
						INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-HM-1				
REV.	CHECKED BY: PGQ APPROVED BY: PGQ		DRAWN BY quigley	DRAWN FOR PGQ	DATE 9/24/2007	SCALE		7102-065-SRC <small>SH. NO. 1 OF 31</small>	REV.	

REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP
A		General Dimension	2/21/07 PGQ



SCALE 1 / 2

- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



SCALE 1 / 2

E	7102-065-SRC	REV A
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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 (Seas)			
WELDING OTHER (Gallagher)			
UTILITIES INTEGRATION (Gallagher)			
STOCKROOMS (Lockwood)			

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
7102-065-SRC								
A								

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XXX ± .005  
FRACTIONS ± .104  
ANGLES ± .01  
ALL SURFACES

**CORNELL UNIVERSITY**  
**LEPP**  
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS

CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

**INJECTOR CRYOMODULE SEMI-RIGID**  
**SR-ICM-HM-2**

CREATED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC	REV A
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REVISIONS			1
SYM	ZONE	DESCRIPTION	DATE   APP

SCALE 1 / 2

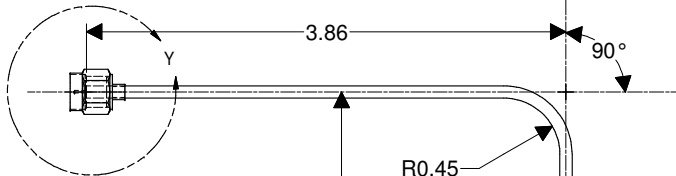
28.29

90°

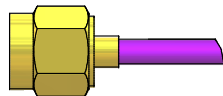
90°

SCALE 1 / 2

- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



DETAIL Y  
SCALE 4 : 1



DETAIL Z  
SCALE 4 : 1

SCALE 2 : 1

4.72

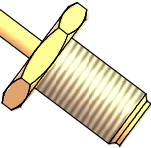
R0.45

90°

3.86

R0.45

97°



DETAIL Z  
SCALE 4 : 1

5.15

5.18

2.55

2.53

SCALE 1 / 2

28.29

90°

90°

E 7102-065-SRC

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'Connor):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Seas):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.

PLOT DATE: 1/9/2008  
CAD FILE NAME: 7102-065-SRC.idw

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XXX ± .004  
FRACTIONS ± .004  
ANGLES ± .01  
ALL SURFACES

**CORNELL UNIVERSITY**  
**LEPP**  
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS

CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

**INJECTOR CRYOMODULE SEMI-RIGID**  
**SR-ICM-HM-3**

CHANGED BY: PGQ  
APPROVED BY: PGQ

DRAWN BY: quigley  
DRAWN FOR: PGQ  
DATE: 9/24/2007  
SCALE: E

E 7102-065-SRC  
REV. 31

REVISIONS			DATE	APP
SYM	ZONE	DESCRIPTION		

27.29

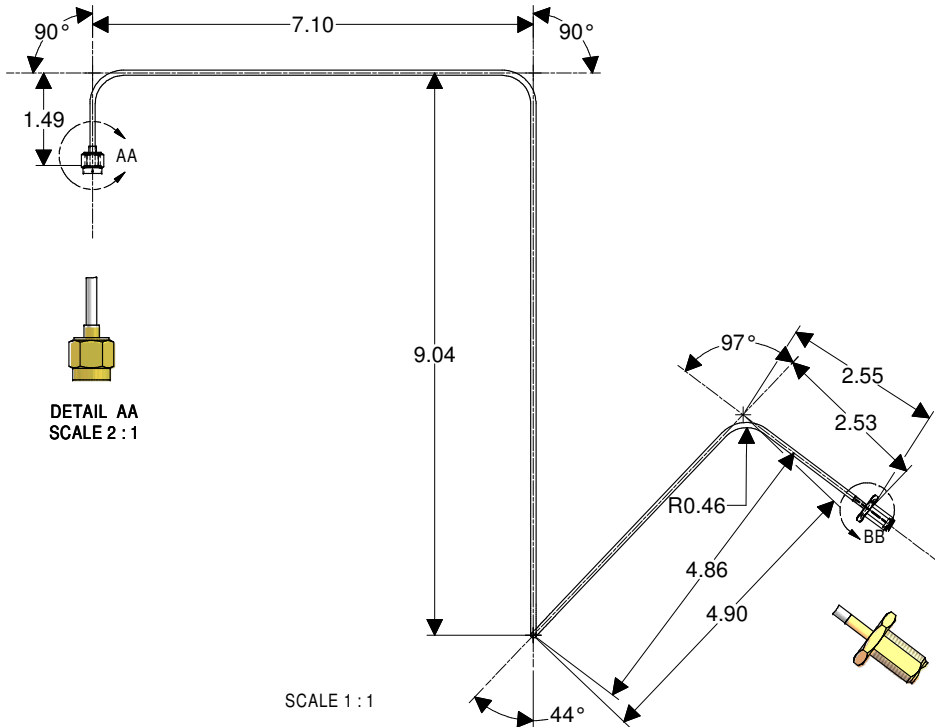
90°

90°

SCALE 1 / 2

Notes:

1. All Semi-Rigid bend radii are 0.5" from center of conductor.
3. Each cable shall have a part number label at each end.
4. Bulkhead Nut and lock washer not shown.



DETAIL AA  
SCALE 2 : 1

DETAIL BB  
SCALE 2 : 1

SCALE 1 / 2

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

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

PRINT  
DISTR.

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
7102-065-SRC							

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XXX ± .005  
FRACTIONS ± .004  
ANGLES ± .01  
ALL SURFACES

CORNELL  
UNIVERSITY  
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS

CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-HM-4

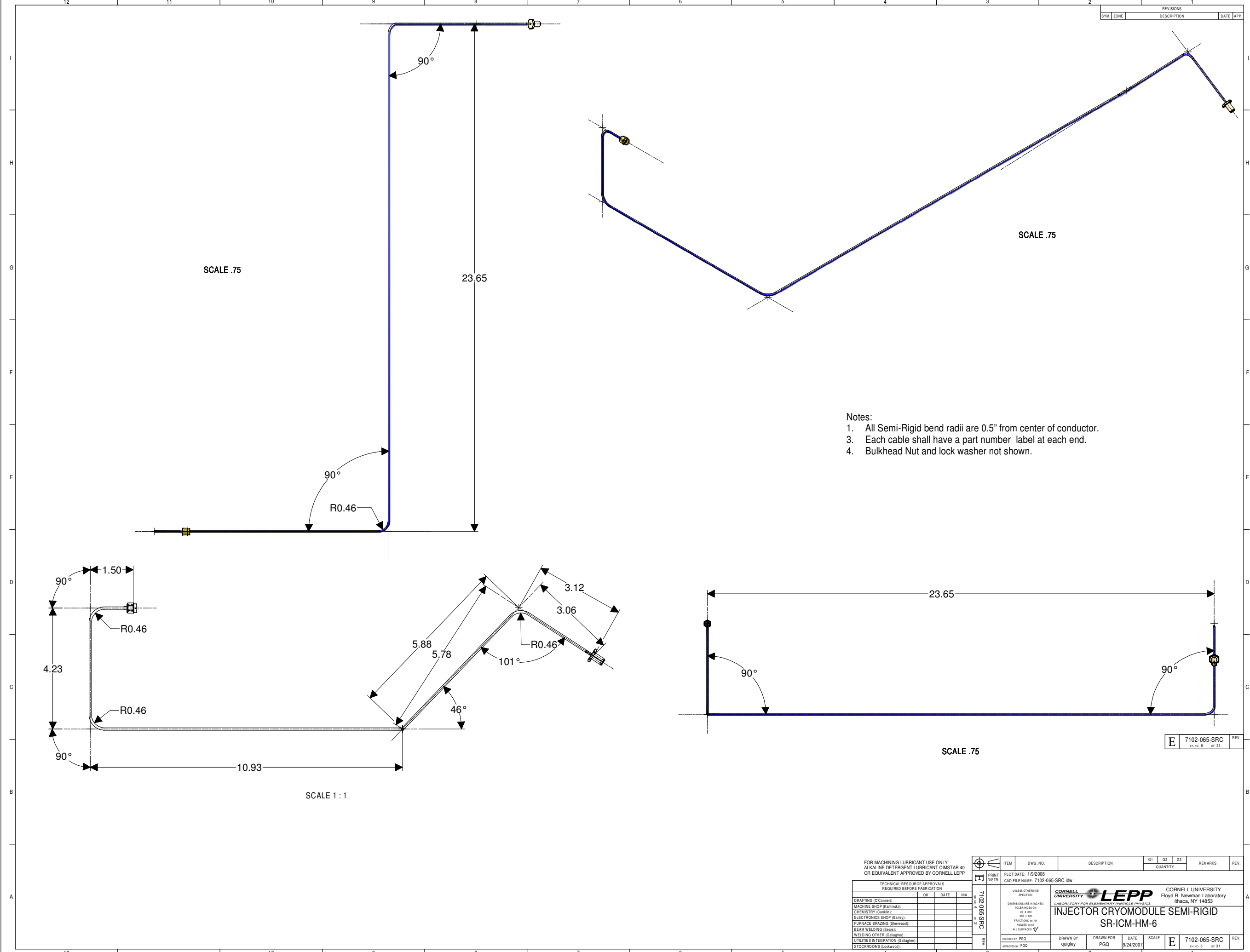
CREATED BY: PGQ  
APPROVED BY: PGQ

DRAWN BY: quigley  
DRAWN FOR: PGQ  
DATE: 9/24/2007  
SCALE: E

7102-065-SRC  
Rev. 001-01







REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP

SCALE .75

SCALE .75

23.65

- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.

SCALE .75

SCALE 1 : 1

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 (Seas)			
WELDING OTHER (Gallagher)			
STOCKROOMS (Lockwood)			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT DISTR.							

PLOT DATE: 1/9/2008  
CAD FILE NAME: 7102-065-SRC.idw

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XXX ± .001  
FRACTIONS ± .104  
ANGLES ± .01  
ALL SURFACES

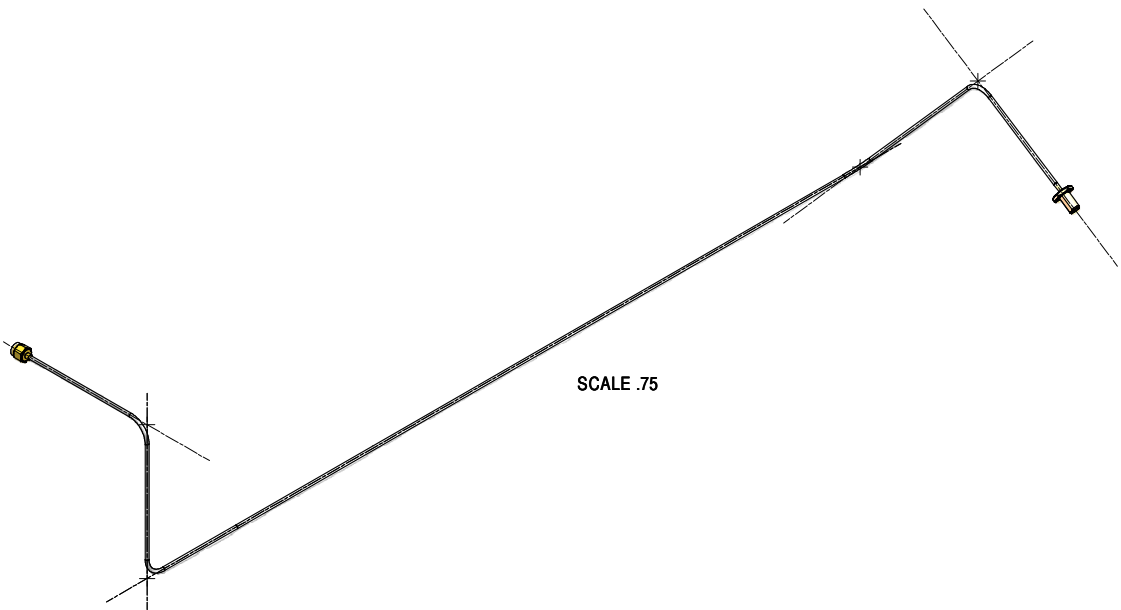
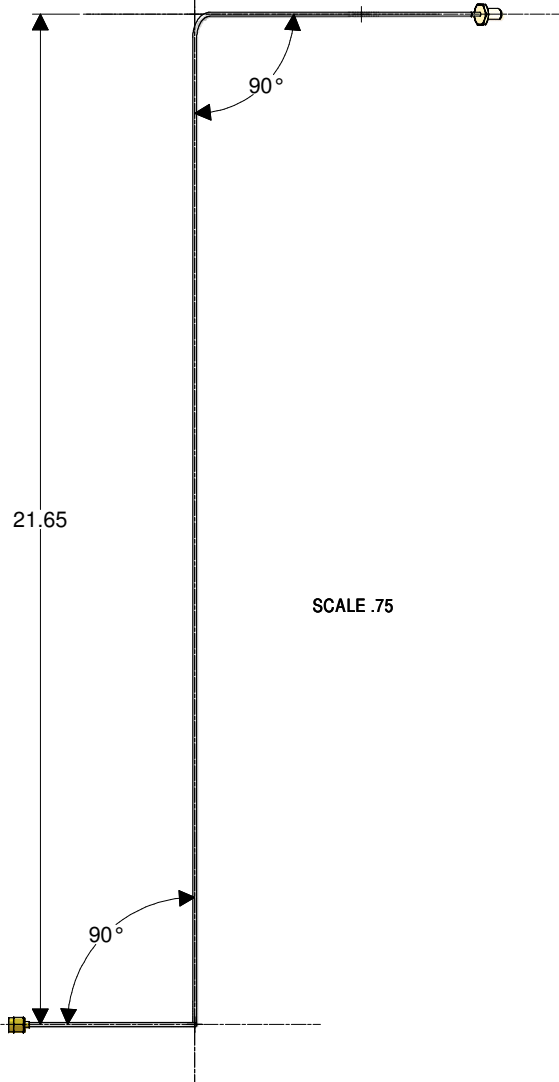
**CORNELL UNIVERSITY**  
**LEPP**  
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS

CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

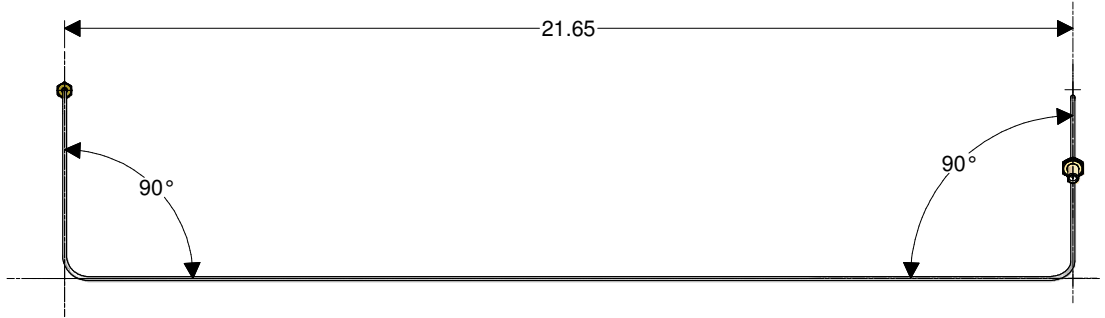
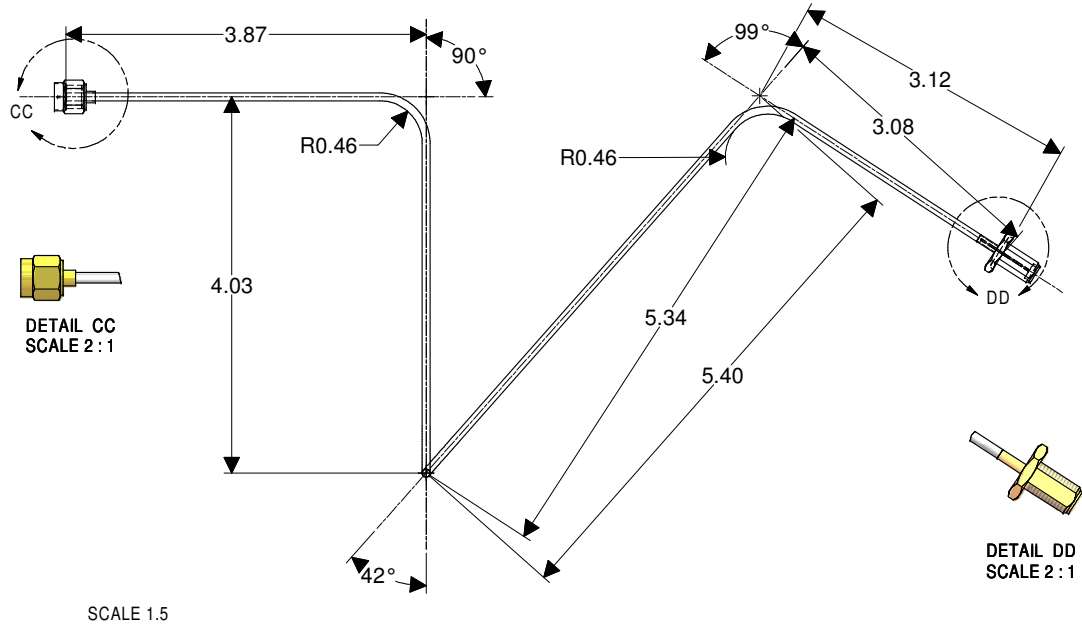
**INJECTOR CRYOMODULE SEMI-RIGID**  
**SR-ICM-HM-6**

CREATED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC	REV.
APPROVED BY: PGQ						

REVISIONS			DATE	APP
SYM	ZONE	DESCRIPTION		



- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



REV	DESCRIPTION	DATE
E	7102-065-SRC	9/24/2007

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

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

REV	DESCRIPTION	DATE
7102-065-SRC		

ITEM	DWG. NO.	DESCRIPTION
PRINT	7102-065-SRC	
DISTR.		

ITEM	DWG. NO.	DESCRIPTION
7102-065-SRC		

ITEM	DWG. NO.	DESCRIPTION
7102-065-SRC		

ITEM	DWG. NO.	DESCRIPTION
7102-065-SRC		

ITEM	DWG. NO.	DESCRIPTION
7102-065-SRC		

ITEM	DWG. NO.	DESCRIPTION
7102-065-SRC		

ITEM	DWG. NO.	DESCRIPTION
7102-065-SRC		

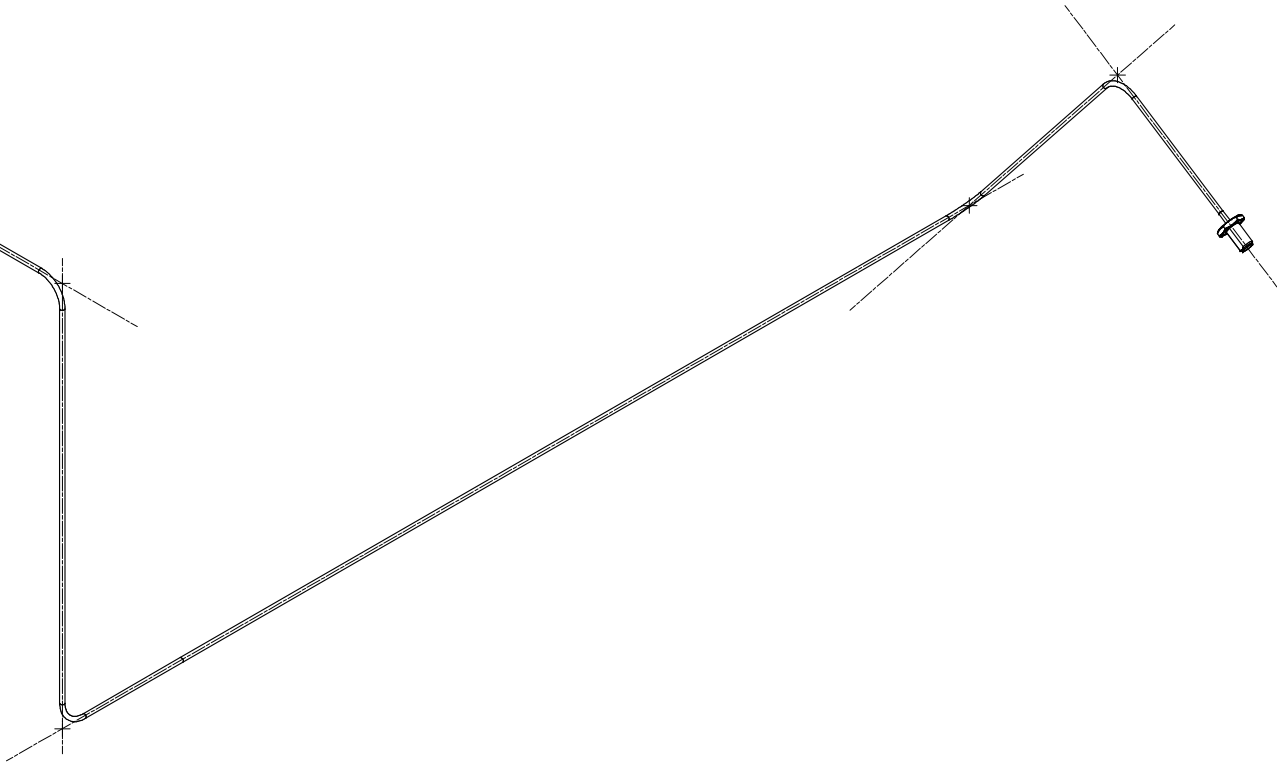
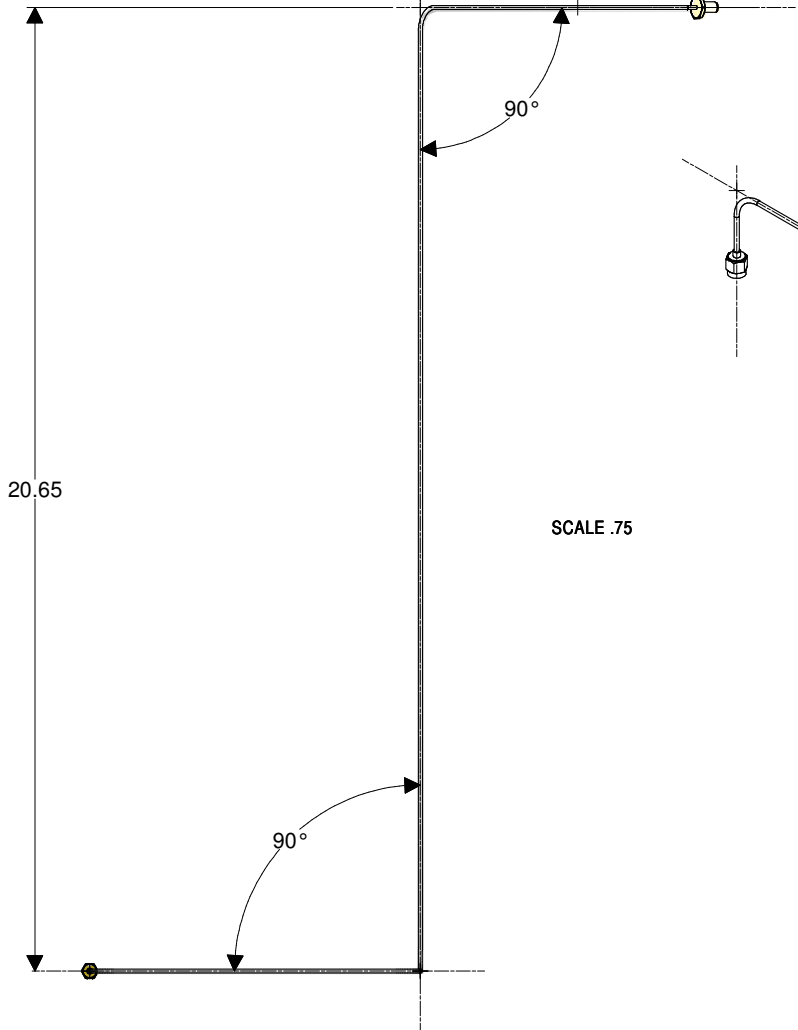


CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

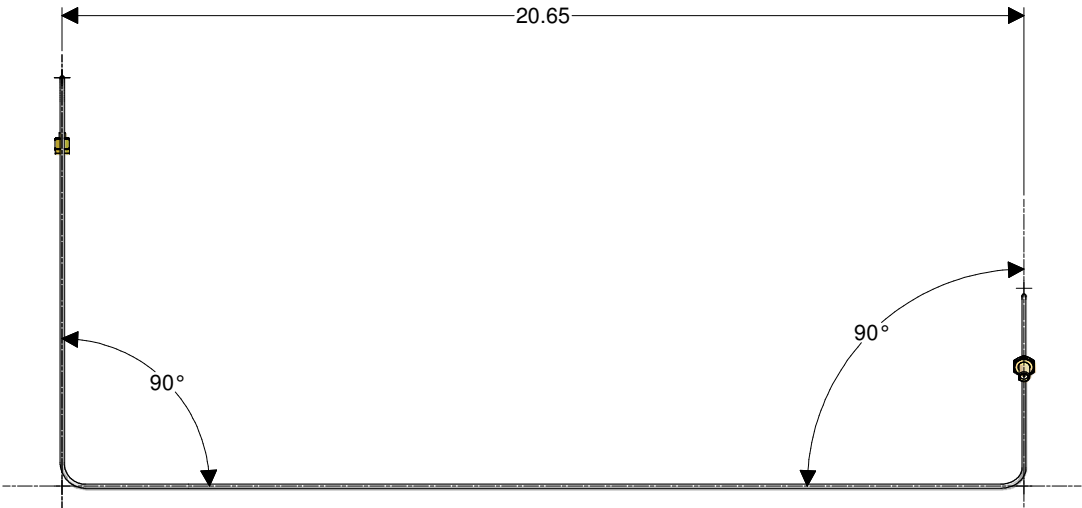
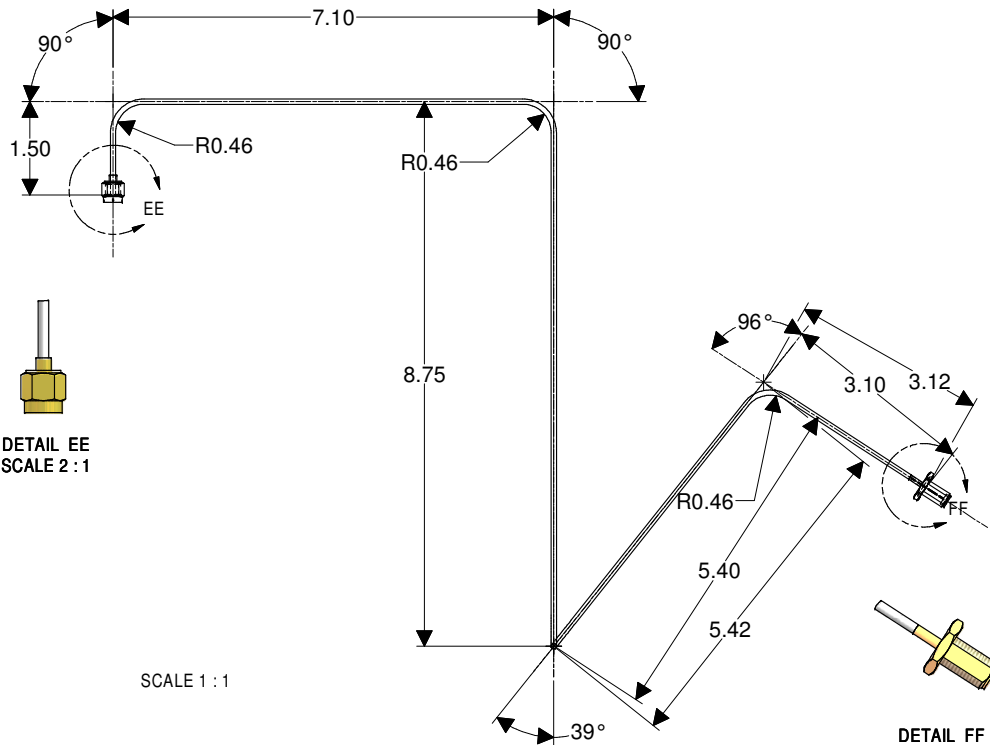
INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-HM-7

REV	DESCRIPTION	DATE
E	7102-065-SRC	9/24/2007

REVISIONS			1
SYM	ZONE	DESCRIPTION	DATE   APP



- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



E	7102-065-SRC	REV.
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FOR MACHINING LUBRICANT USE ONLY  
ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
OR EQUIVALENT APPROVED BY CORNELL LEPP

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

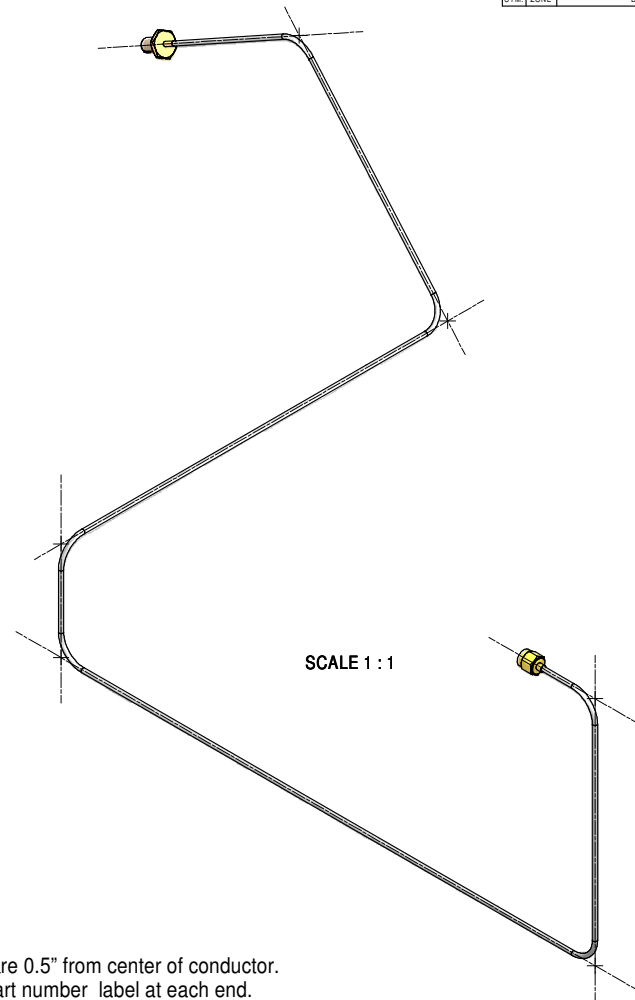
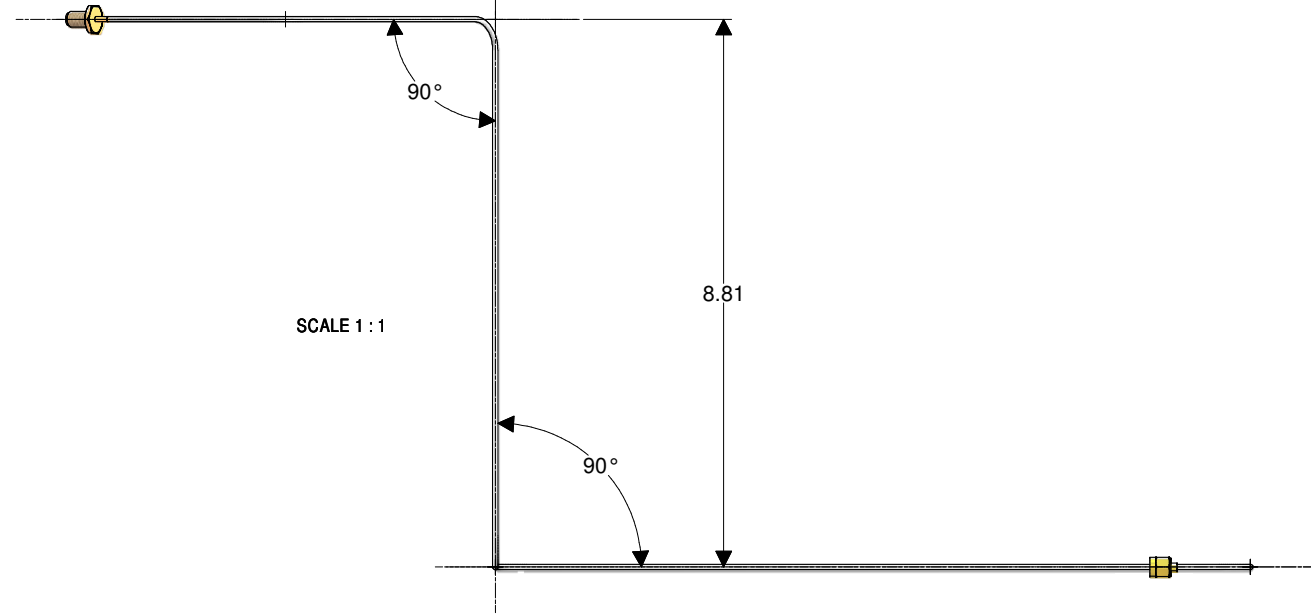
7102-065-SRC	REV.
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ITEM	DWG. NO.	DESCRIPTION
PRINT	DATE: 1/9/2008	
DISTR.	CAD FILE NAME: 7102-065-SRC.dwg	

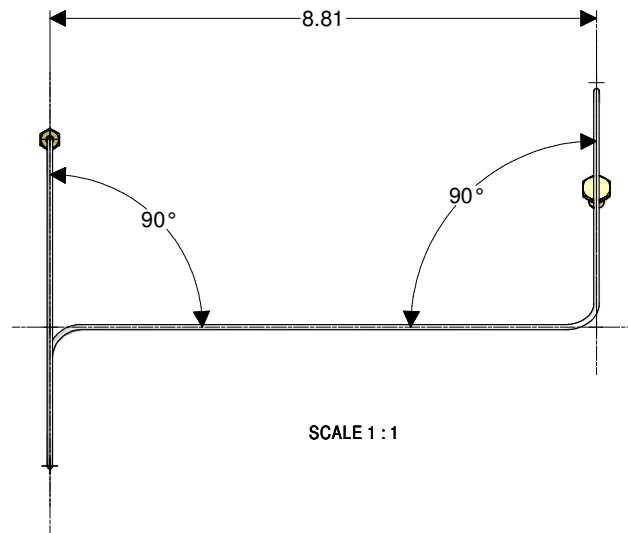
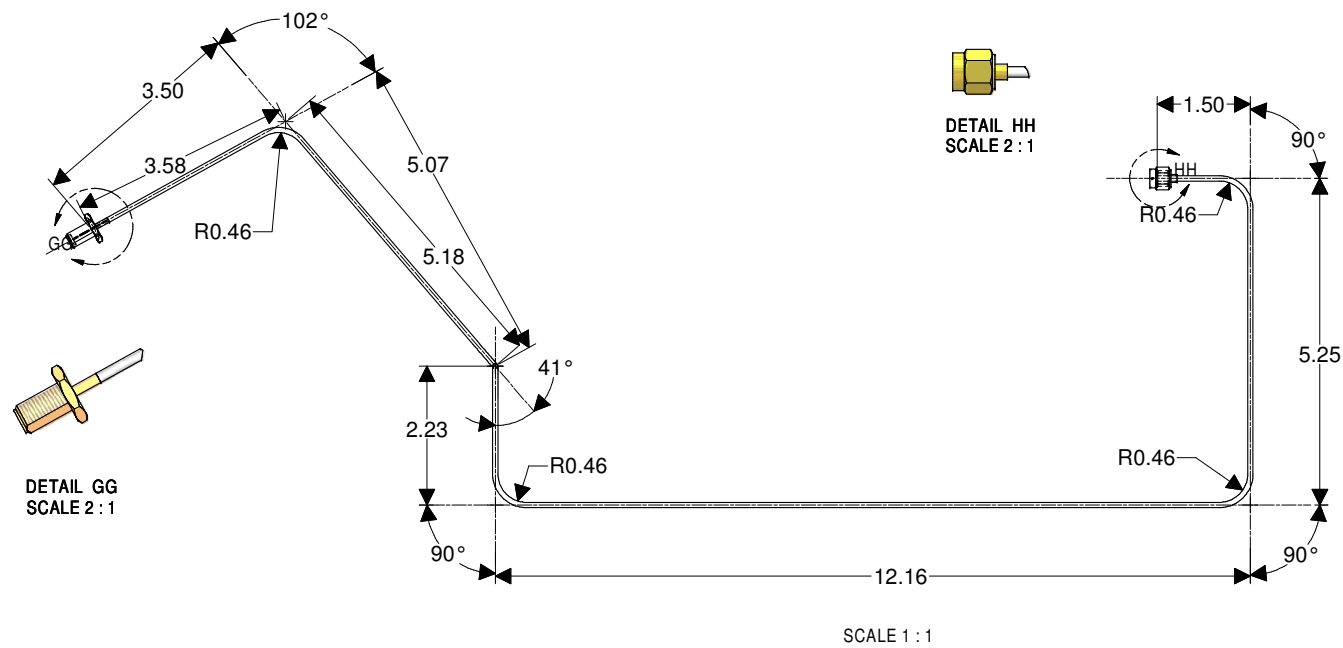
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES (IN): XX ± .10 XX ± .05 FRACTIONS ± .04 ANGLES ± .01 ALL SURFACES	CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853	7102-065-SRC	REV.
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INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-HM-8

DRAWN BY	DATE	SCALE	E	7102-065-SRC	REV.
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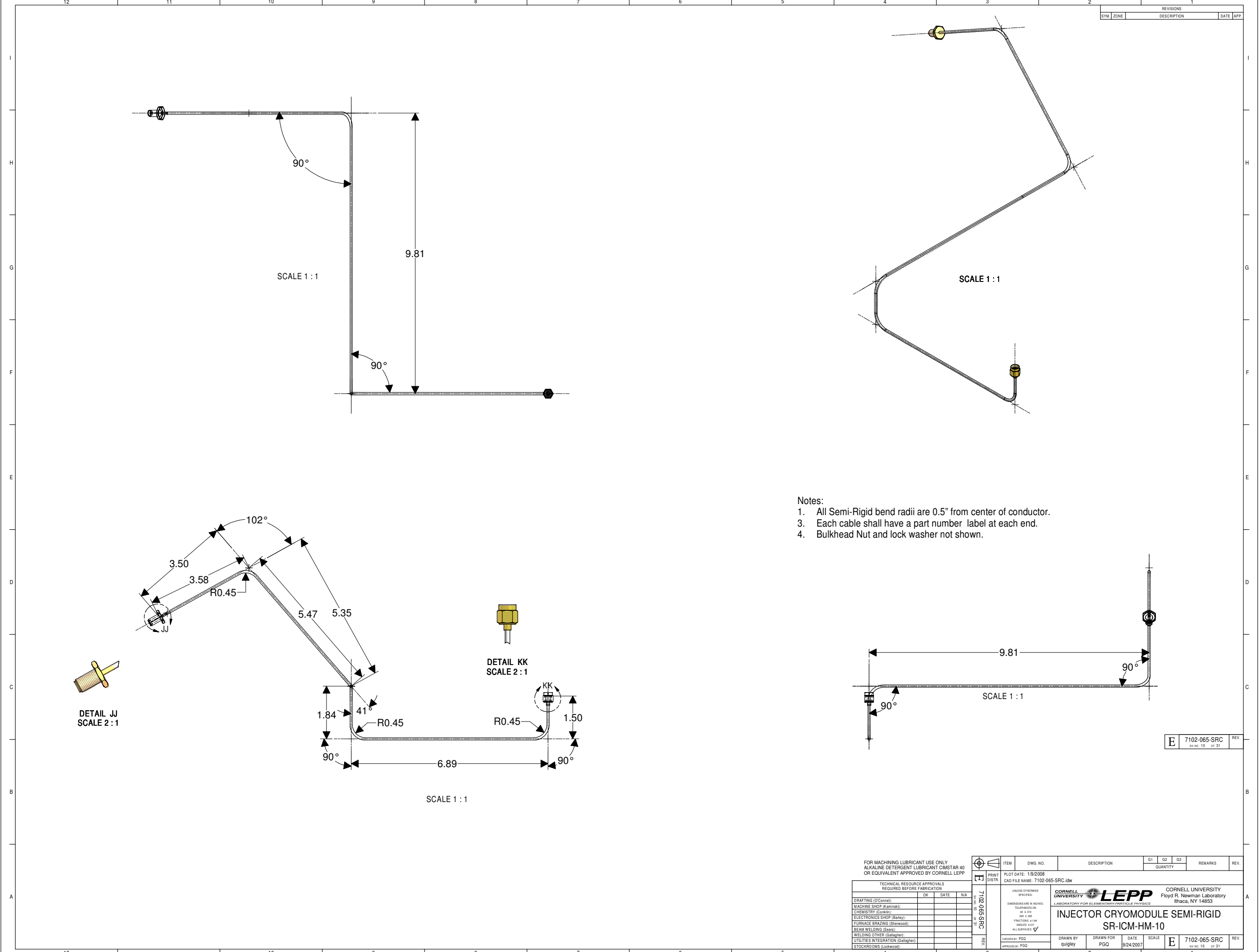
- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



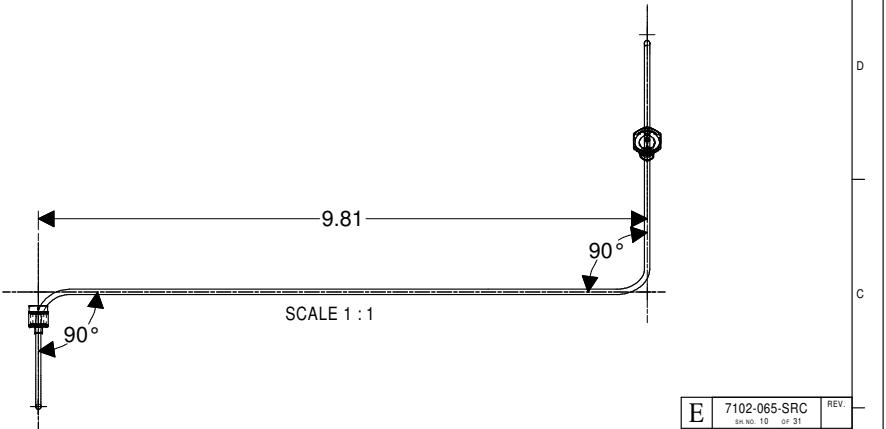
FOR MACHINING LUBRICANT USE ONLY  
ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
OR EQUIVALENT APPROVED BY CORNELL LEPP

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

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT DISTR.	7102-065-SRC	PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.dwg					
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES (IN): XXX ± .006 FRACTIONS ± .104 ANGLES ± .5° ALL SURFACES							
CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853							
INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-HM-9							
CREATED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC	REV.	
APPROVED BY: PGQ							

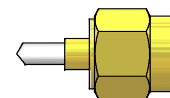
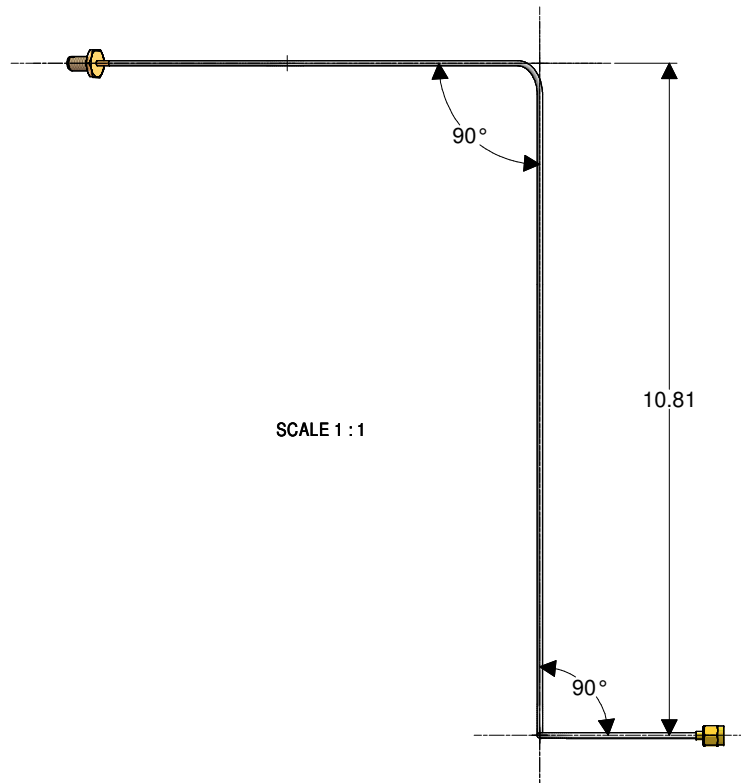


- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.

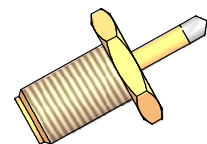
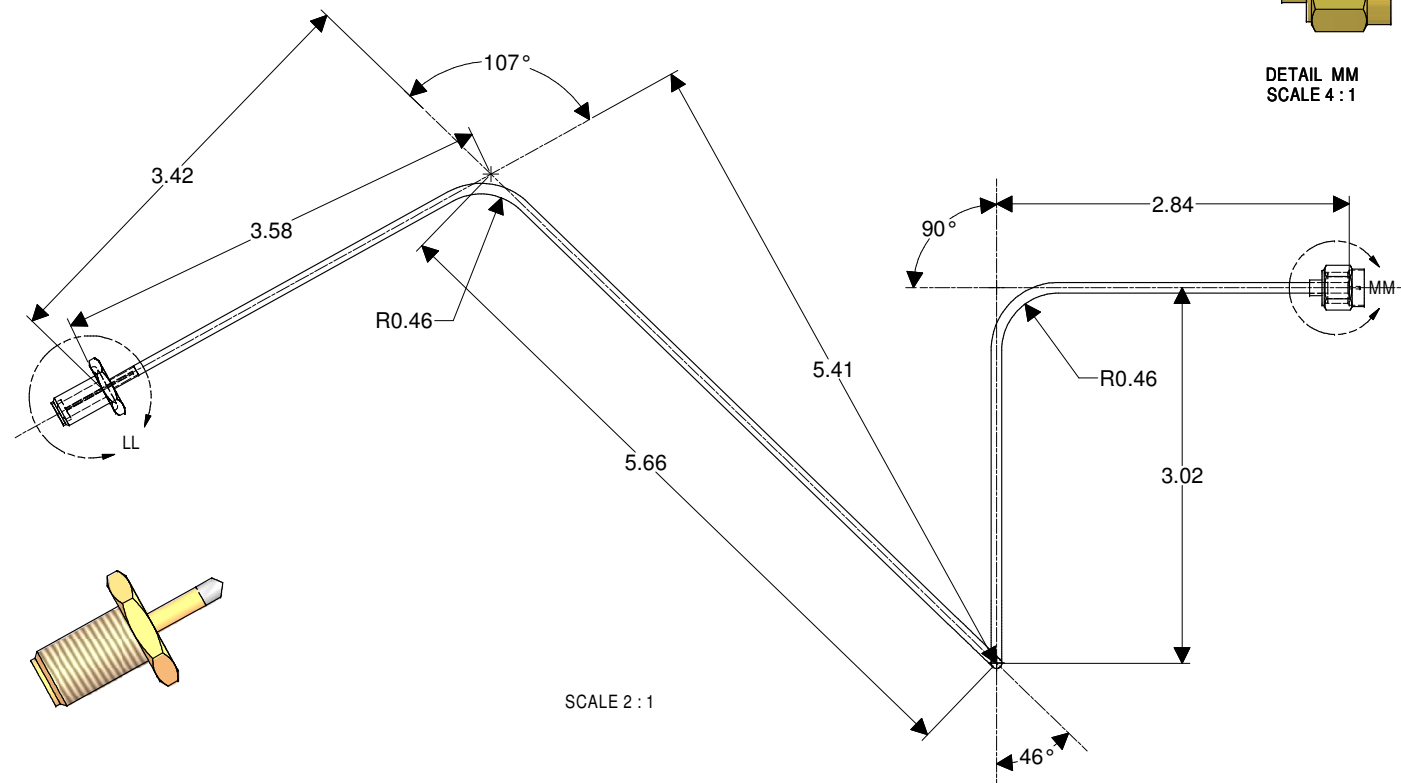


FOR MACHINING LUBRICANT USE ONLY ALKALINE DETERGENT LUBRICANT CIMSTAR 40 OR EQUIVALENT APPROVED BY CORNELL LEPP				ITEM		DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION				PRINT DISTR.		PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.dwg				QUANTITY				
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES (IN): XX ± .XX FRACTIONS ± .XX ANGLES ± .XX ALL SURFACES				7102-065-SRC										
DRAWING (O'Connell): MACHINE SHOP (Kaminski): CHEMISTRY (Conklin): ELECTRONICS SHOP (Barley): FURNACE BRAZING (Sherwood): BEAM WELDING (Seas): WELDING OTHER (Gallagher): UTILITIES INTEGRATION (Gallagher): STOCKROOMS (Lockwood):				CREATED BY: PGQ APPROVED BY: PGQ			DRAWN BY quigley			DRAWN FOR PGQ			DATE 9/24/2007	
							SCALE E			7102-065-SRC			REV. Rev. No. 1.0 of 31	

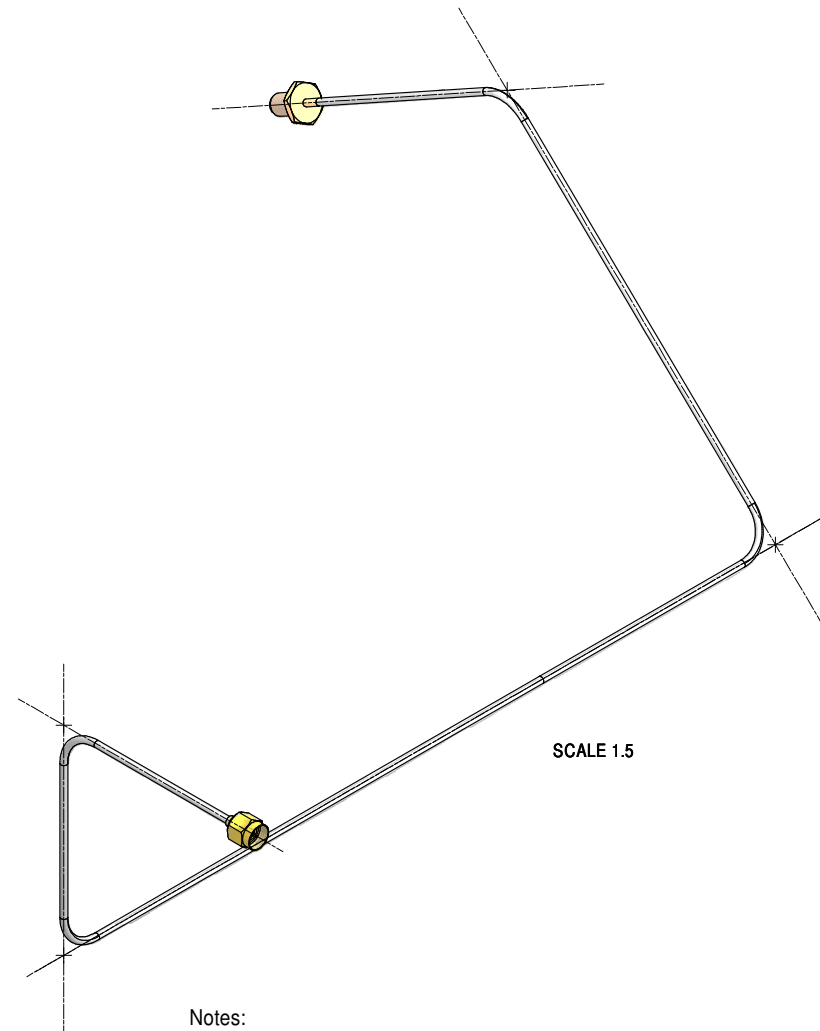
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



DETAIL MM  
SCALE 4 : 1

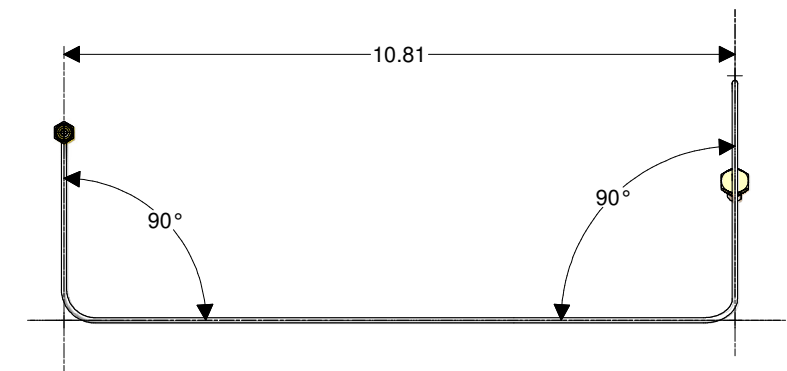


DETAIL LL  
SCALE 4 : 1






Notes:

1. All Semi-Rigid bend radii are 0.5" from center of conductor.
3. Each cable shall have a part number label at each end.
4. Bulkhead Nut and lock washer not shown.

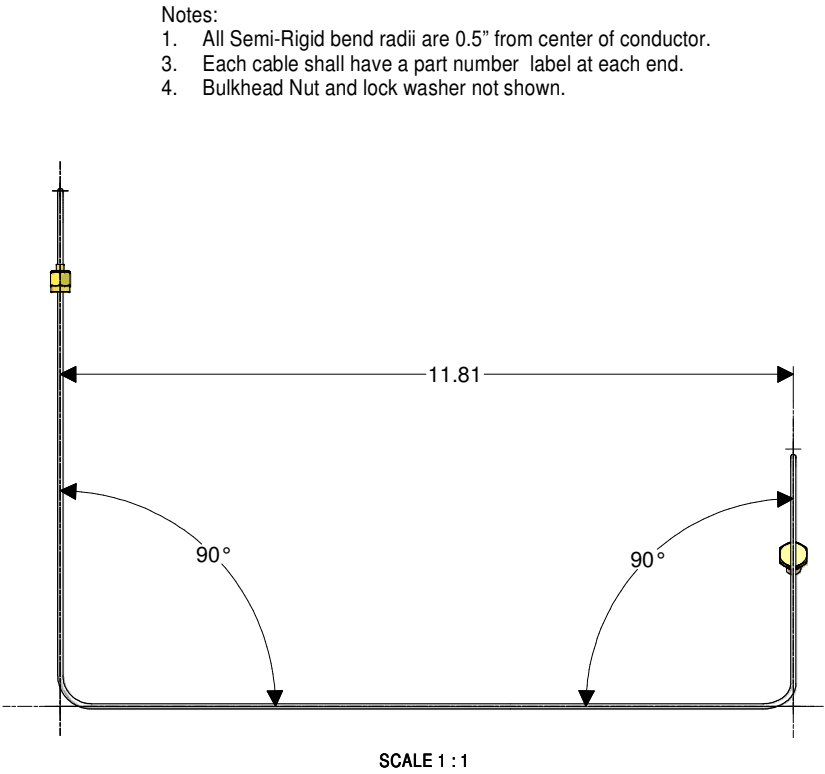
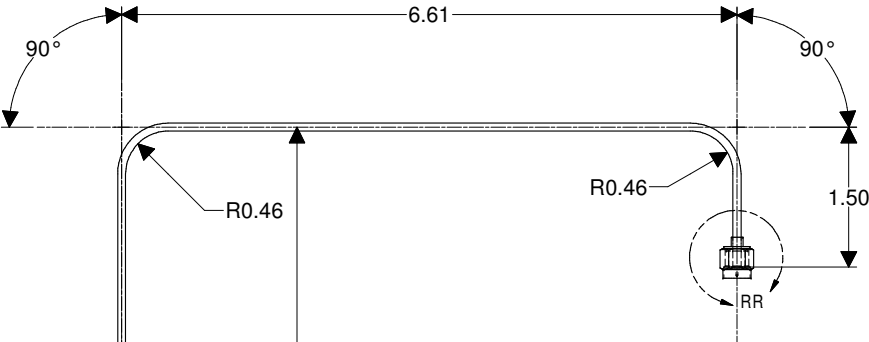
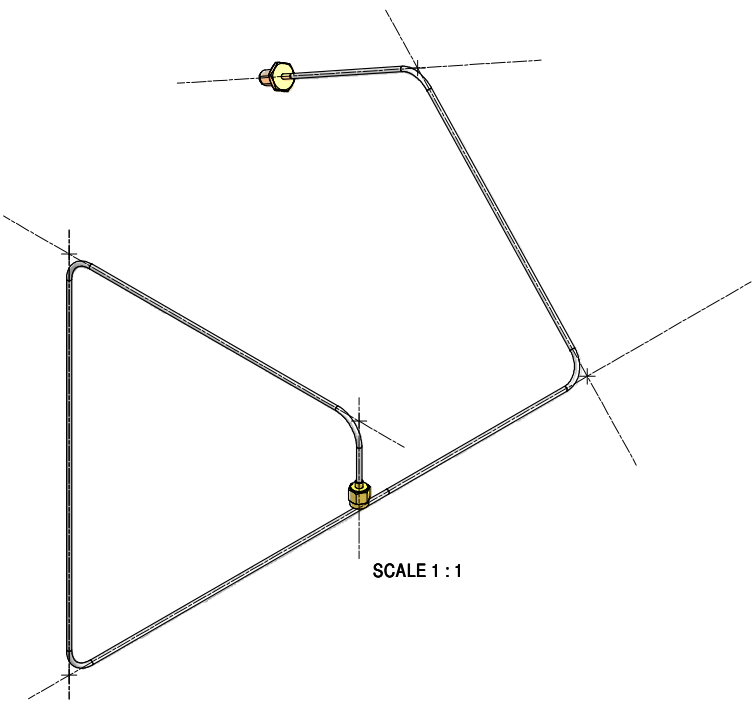
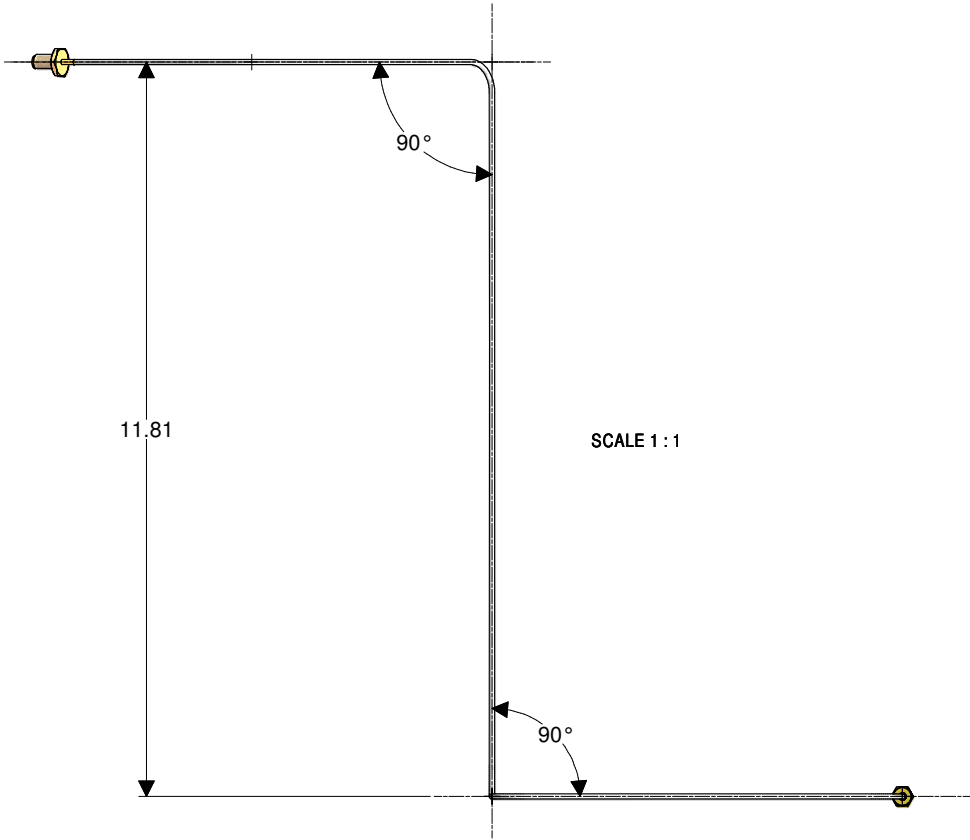


SCALE 1 : 1

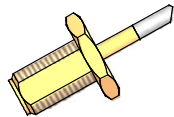
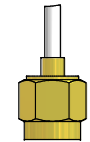
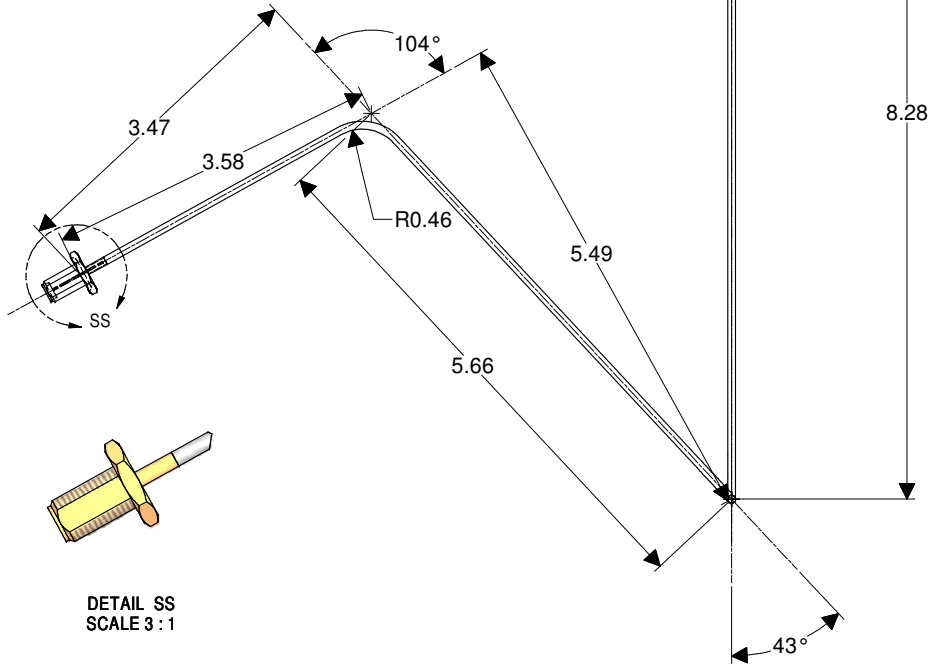
E	7102-065-SRC SH. NO. 11 OF 31	REV.
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FOR MACHINING LUBRICANT USE ONLY ALKALINE DETERGENT LUBRICANT CM18AR 40 OR EQUIVALENT APPROVED BY CORNELL LEPP			ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
		PRINT DISTR.	PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SCR.idw							
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION		7102-065-SCR 01/09/2008 11:39:31	UNLESS OTHERWISE SPECIFIED		 <b>LEPP</b>		CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			
OK      DATE      N/A			DIMENSIONS ARE IN INCHES TOLERANCES ARE:							
DRAFTING (C)cornell			0.0010							
MACHINE SHOP (K)cornell			0.0010							
CHEMISTRY (C)cornell			0.0010							
ELECTRONICS SHOP (B)cornell		REV	0.0010							
FURNACE BRAZING (S)cornell			0.0010							
BEAM WELDING (S)cornell			0.0010							
WELDING OTHER (G)cornell			0.0010							
STOCKROOMS (L)cornell			0.0010							
STOCKROOMS (L)cornell		APPROVED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE:	E	7102-065-SCR (in 10) (in 31)	REV.	

REVISIONS			DATE	APP
SYM	ZONE	DESCRIPTION		






- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



REV	DESCRIPTION	DATE
E	7102-065-SRC	1/9/2008

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 (Seas)			
WELDING OTHER (Gallagher)			
UTILITIES INTEGRATION (Gallagher)			
STOCKROOMS (Lockwood)			

		ITEM	DWG. NO.	DESCRIPTION		G1	G2	G3	REMARKS	REV.
		PLOT DATE: 1/9/2008		CAD FILE NAME: 7102-065-SRC.dwg		QUANTITY				
7102-065-SRC Rev. 02 of 31		UNLESS OTHERWISE SPECIFIED:		 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853						
		DIMENSIONS ARE IN INCHES: TOLERANCES (IN): IN ± .010 FRACTIONS ± .004 HOLE & .005 ALL SURFACES ✓								
				INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-HM-12						
		CREATED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC			REV.
		APPROVED BY: PGQ					Rev. 02 of 31			



REVISIONS			DATE	APP
SYM	ZONE	DESCRIPTION		



5.17

90°

SCALE 1.5:1

90°



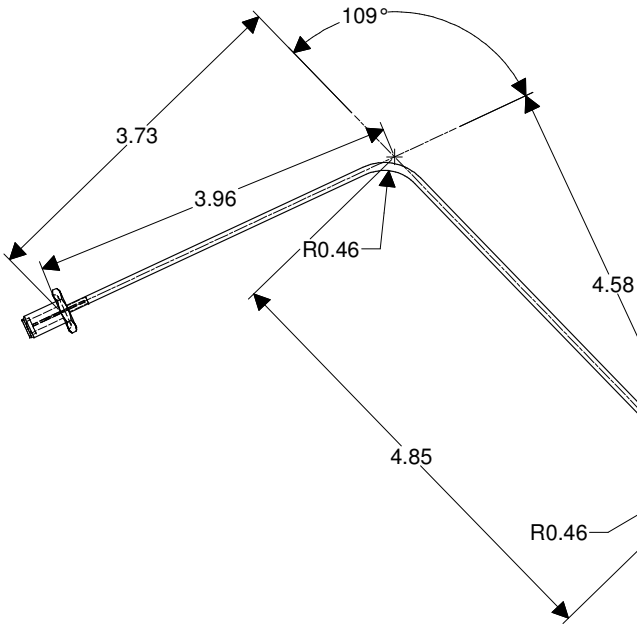
90°

7.10

90°

R0.46

1.49



SCALE 1.5:1



SCALE 1.5:1

PP



- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



5.17

90°

90°

SCALE 1.5:1

E	7102-065-SRC	REV.
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FOR MACHINING LUBRICANT USE ONLY  
ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
OR EQUIVALENT APPROVED BY CORNELL LEPP

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

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
7102-065-SRC								

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XX ± .10  
XX ± .05  
FRACTIONS ± .04  
ANGLES ± .5°  
ALL SURFACES

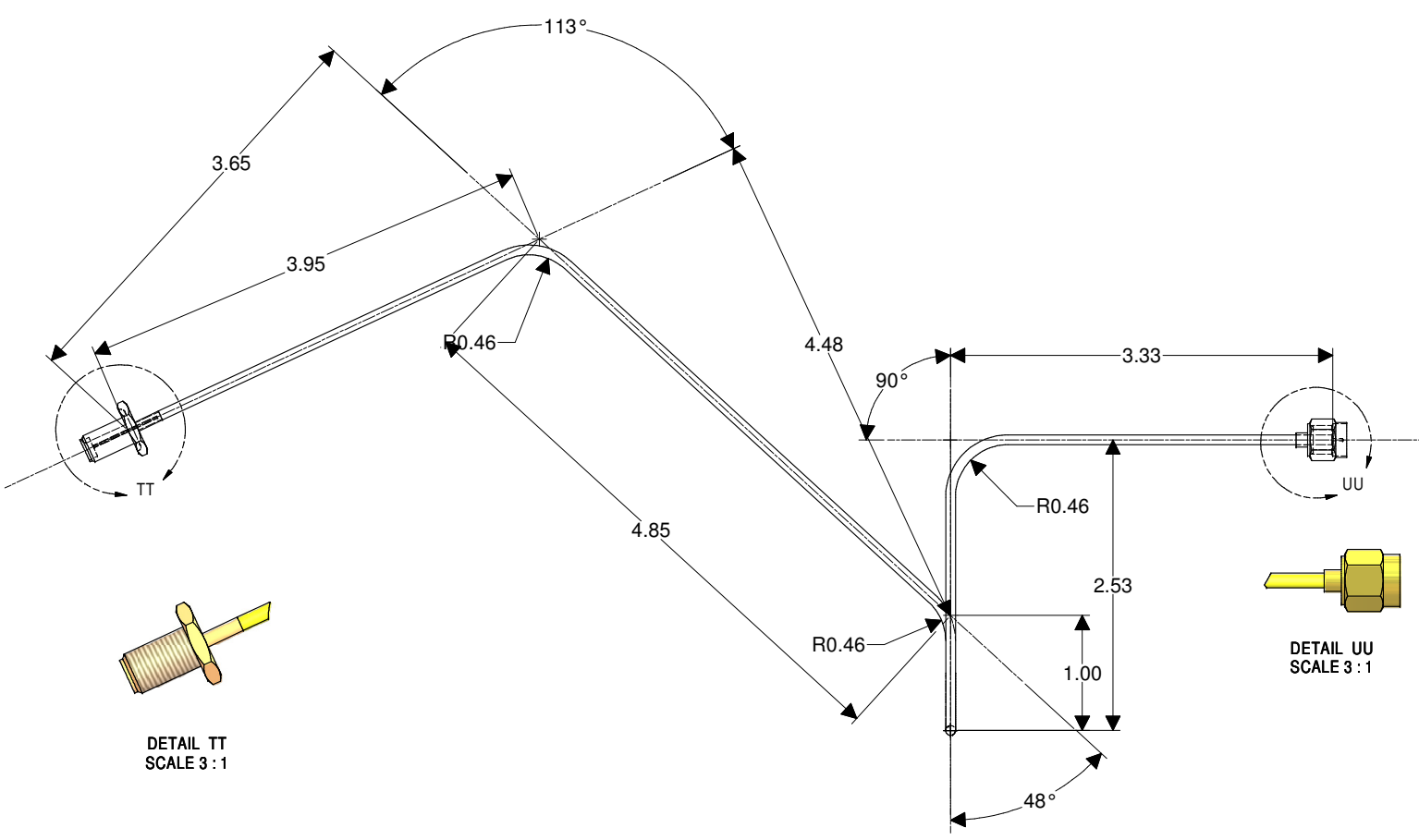
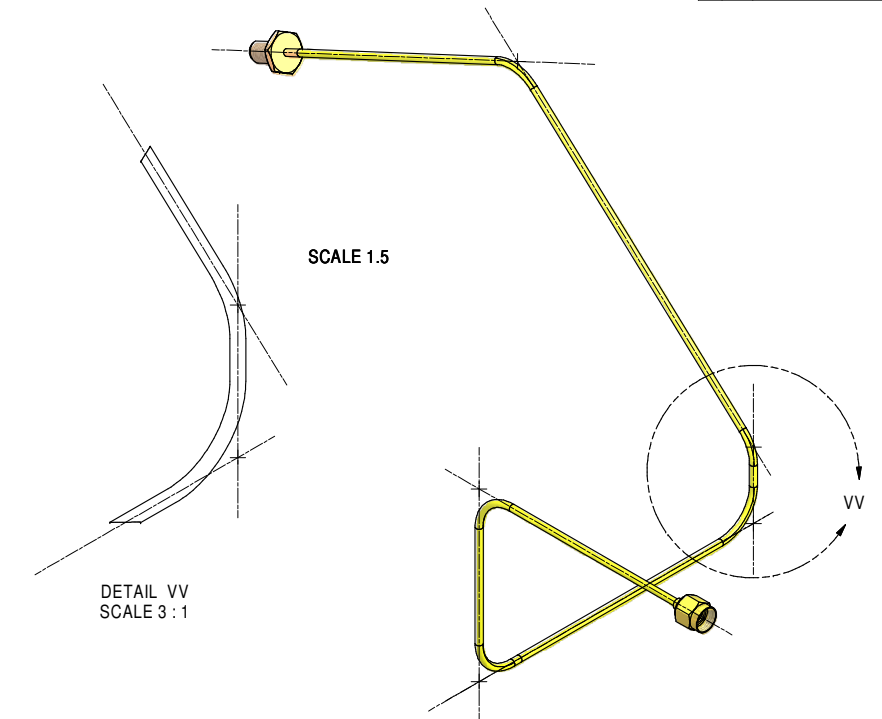
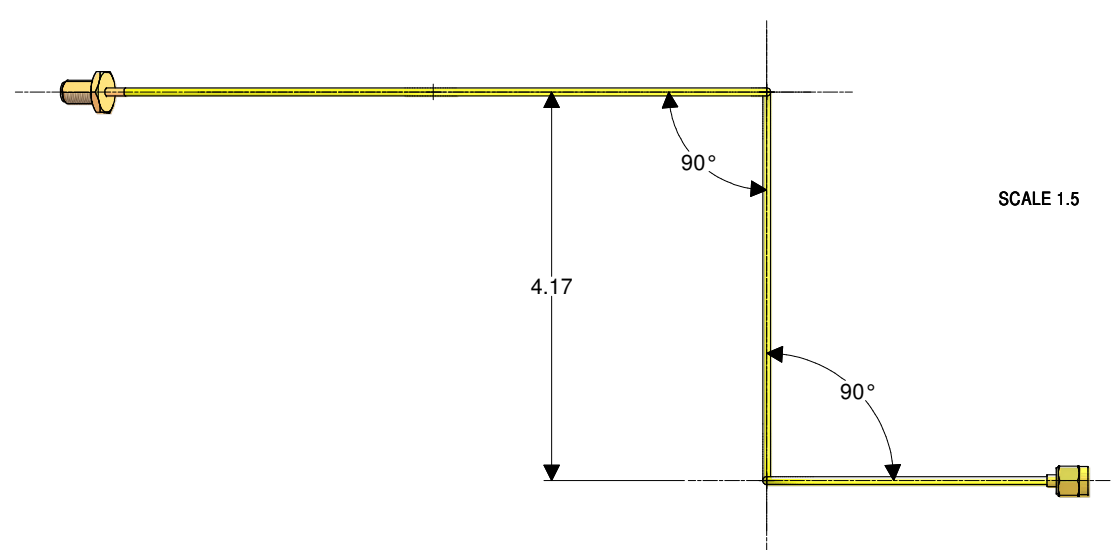


CORNELL UNIVERSITY  
FLOYD R. NEWMAN LABORATORY  
ITHACA, NY 14853

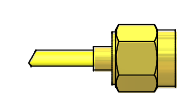
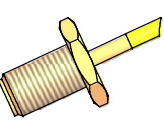
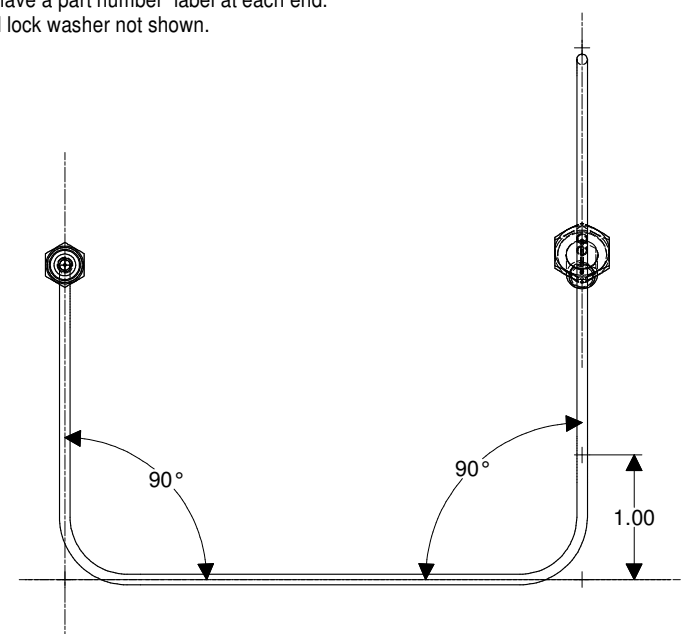
INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-HM-13

CHANGED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC	REV.
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REVISIONS			DATE	APP
SYM	ZONE	DESCRIPTION		



- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.

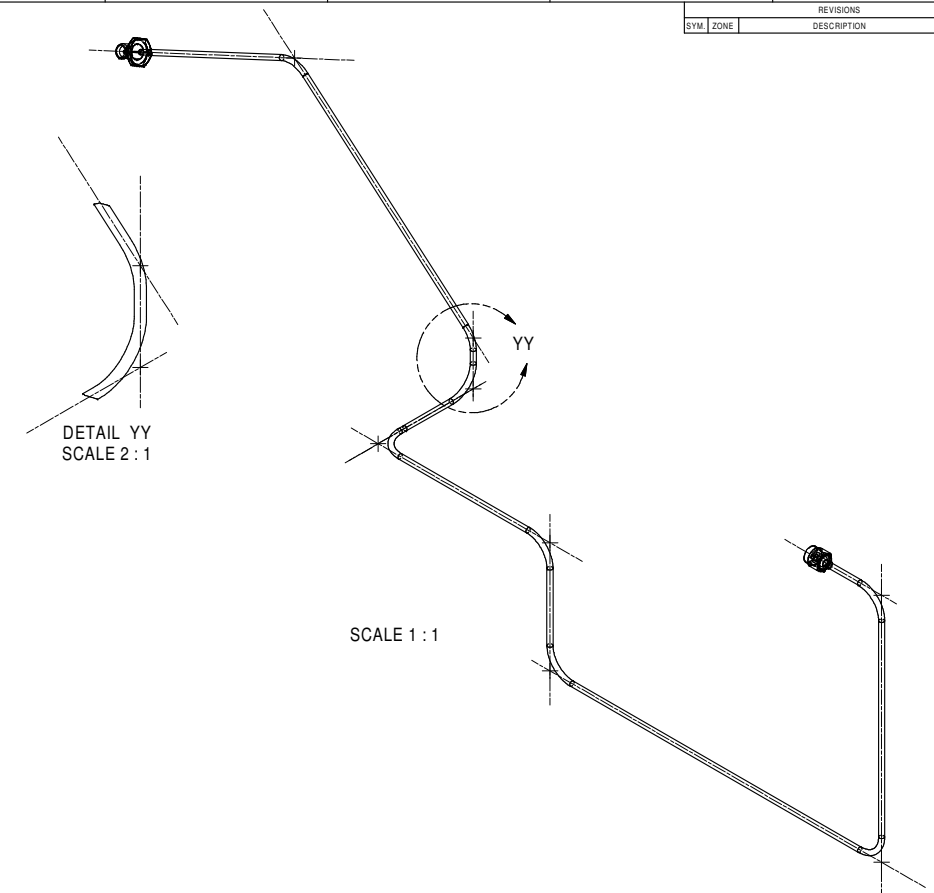


FOR MACHINING LUBRICANT USE ONLY  
ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
OR EQUIVALENT APPROVED BY CORNELL LEPP

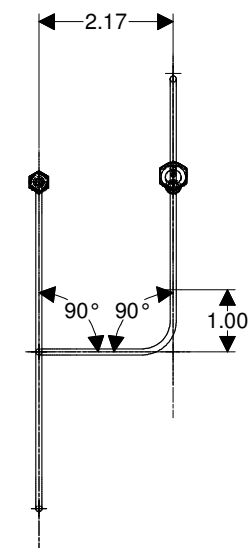
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Seas):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):	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

7102-065-SRC	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
	DISTR.	DATE: 1/9/2008	CAD FILE NAME: 7102-065-SRC.dwg	QUANTITY				
7102-065-SRC	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES (IN): XX ± .010 XXX ± .005 FRACTIONS ± .004 ANGLES ± .01 ALL SURFACES		CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853					
	CHANGED BY: PGQ APPROVED BY: PGQ		DRAWN BY: quigley		DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC Rev. No. 14 - 01-31








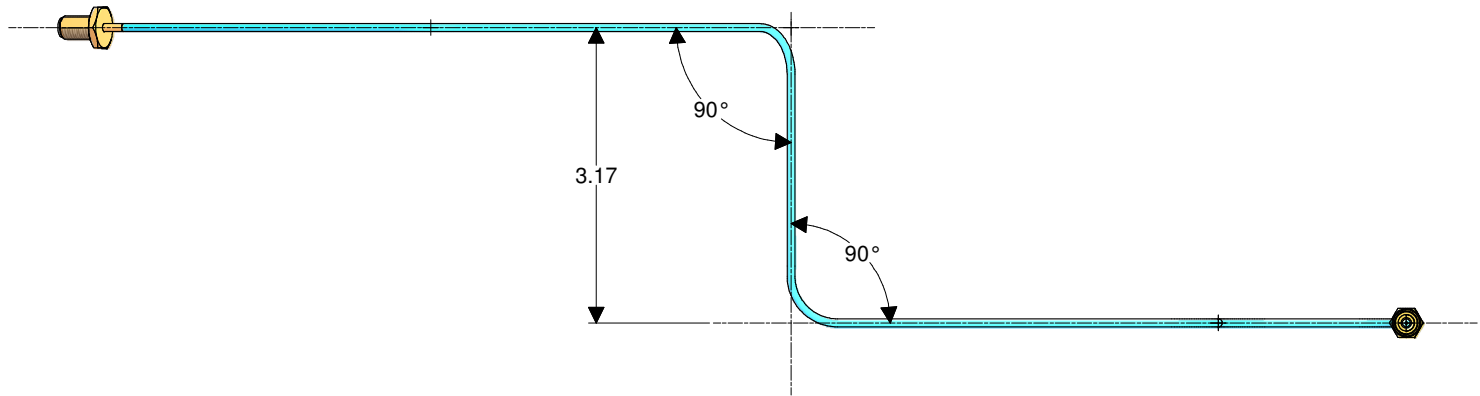
- [illegible]



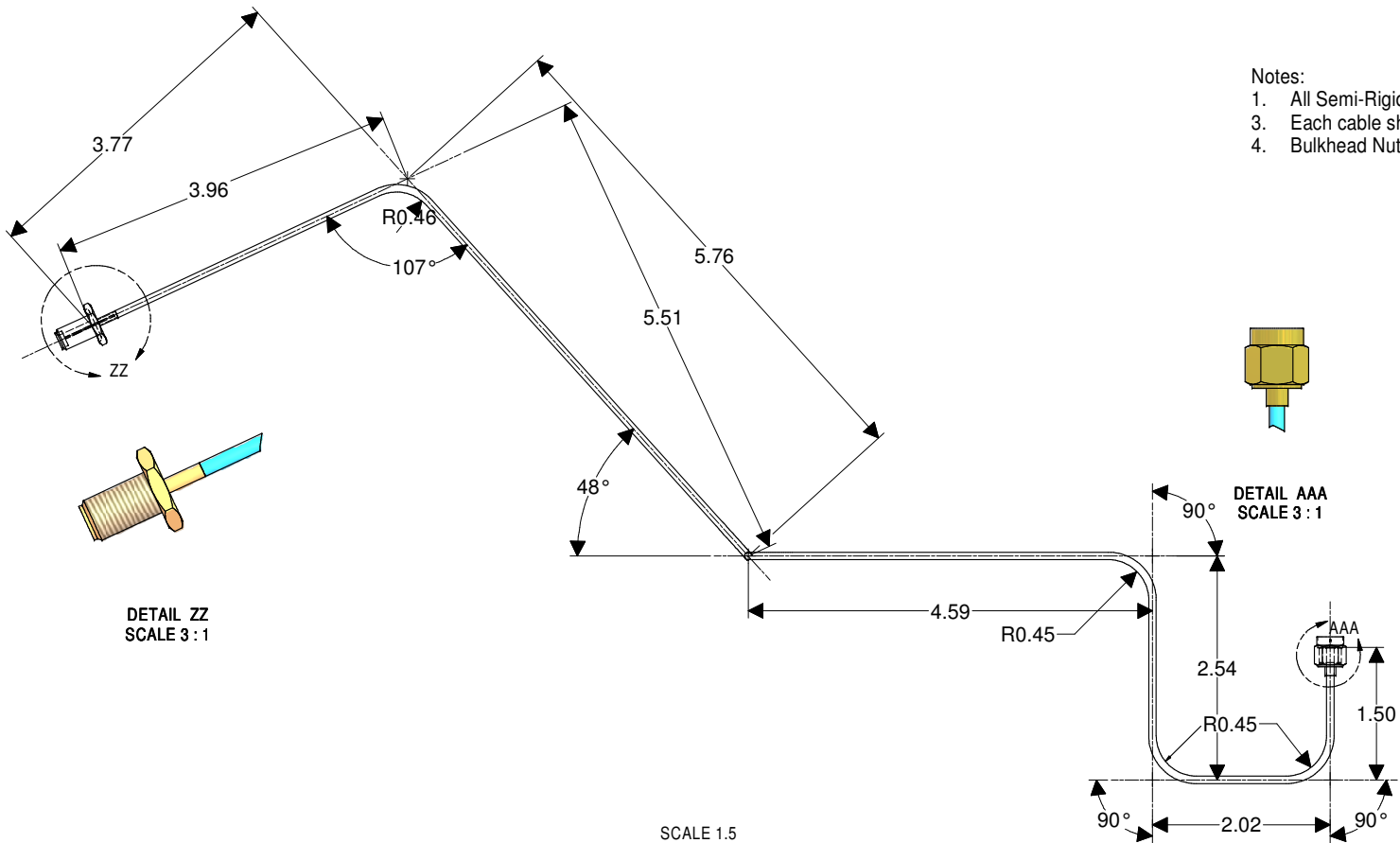
E	7102-065-SRC SH. NO. 15 OF 31	REV.
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FOR MACHINING LUBRICANT USE ONLY ALKALINE DETERGENT LUBRICANT CM18AR 40 OR EQUIVALENT APPROVED BY CORNELL LEPP					ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.	
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION					PRINT DISTR.	PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw		QUANTITY					
OK DATE N/A				7102-065-SRC 1/9/2008	UNLESS OTHERWISE SPECIFIED				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853				
DRAFTING (C) Cornell MACHINE SHOP (K) Amnisk CHEMISTRY (C) Cornell ELECTRONICS SHOP (B) Bant FURNACE BRAZING (B) Bant BEAM WELDING (S) Searn WELDING OTHER (G) Galleg LASER/INTEGRATION (G) Galleg STOCKROOMS (Lockwood)					DIMENSIONS ARE IN INCHES TOLERANCES ARE: 0 - 3/16 3/16 - 1/8 1/8 - 3/4 3/4 - 1 1/2 1 1/2 - 1 3/4 1 3/4 - 2 1/4 2 1/4 - 3 1/4 3 1/4 - 4 1/4 4 1/4 - 5 1/4 5 1/4 - 6 1/4 6 1/4 - 7 1/4 7 1/4 - 8 1/4 8 1/4 - 9 1/4 9 1/4 - 10 1/4 10 1/4 - 11 1/4 11 1/4 - 12 1/4 12 1/4 - 13 1/4 13 1/4 - 14 1/4 14 1/4 - 15 1/4 15 1/4 - 16 1/4 16 1/4 - 17 1/4 17 1/4 - 18 1/4 18 1/4 - 19 1/4 19 1/4 - 20 1/4 20 1/4 - 21 1/4 21 1/4 - 22 1/4 22 1/4 - 23 1/4 23 1/4 - 24 1/4 24 1/4 - 25 1/4 25 1/4 - 26 1/4 26 1/4 - 27 1/4 27 1/4 - 28 1/4 28 1/4 - 29 1/4 29 1/4 - 30 1/4 30 1/4 - 31 1/4 31 1/4 - 32 1/4 32 1/4 - 33 1/4 33 1/4 - 34 1/4 34 1/4 - 35 1/4 35 1/4 - 36 1/4 36 1/4 - 37 1/4 37 1/4 - 38 1/4 38 1/4 - 39 1/4 39 1/4 - 40 1/4 40 1/4 - 41 1/4 41 1/4 - 42 1/4 42 1/4 - 43 1/4 43 1/4 - 44 1/4 44 1/4 - 45 1/4 45 1/4 - 46 1/4 46 1/4 - 47 1/4 47 1/4 - 48 1/4 48 1/4 - 49 1/4 49 1/4 - 50 1/4 50 1/4 - 51 1/4 51 1/4 - 52 1/4 52 1/4 - 53 1/4 53 1/4 - 54 1/4 54 1/4 - 55 1/4 55 1/4 - 56 1/4 56 1/4 - 57 1/4 57 1/4 - 58 1/4 58 1/4 - 59 1/4 59 1/4 - 60 1/4 60 1/4 - 61 1/4 61 1/4 - 62 1/4 62 1/4 - 63 1/4 63 1/4 - 64 1/4 64 1/4 - 65 1/4 65 1/4 - 66 1/4 66 1/4 - 67 1/4 67 1/4 - 68 1/4 68 1/4 - 69 1/4 69 1/4 - 70 1/4 70 1/4 - 71 1/4 71 1/4 - 72 1/4 72 1/4 - 73 1/4 73 1/4 - 74 1/4 74 1/4 - 75 1/4 75 1/4 - 76 1/4 76 1/4 - 77 1/4 77 1/4 - 78 1/4 78 1/4 - 79 1/4 79 1/4 - 80 1/4 80 1/4 - 81 1/4 81 1/4 - 82 1/4 82 1/4 - 83 1/4 83 1/4 - 84 1/4 84 1/4 - 85 1/4 85 1/4 - 86 1/4 86 1/4 - 87 1/4 87 1/4 - 88 1/4 88 1/4 - 89 1/4 89 1/4 - 90 1/4 90 1/4 - 91 1/4 91 1/4 - 92 1/4 92 1/4 - 93 1/4 93 1/4 - 94 1/4 94 1/4 - 95 1/4 95 1/4 - 96 1/4 96 1/4 - 97 1/4 97 1/4 - 98 1/4 98 1/4 - 99 1/4 99 1/4 - 100 1/4 100 1/4 - 101 1/4 101 1/4 - 102 1/4 102 1/4 - 103 1/4 103 1/4 - 104 1/4 104 1/4 - 105 1/4 105 1/4 - 106 1/4 106 1/4 - 107 1/4 107 1/4 - 108 1/4 108 1/4 - 109 1/4 109 1/4 - 110 1/4 110 1/4 - 111 1/4 111 1/4 - 112 1/4 112 1/4 - 113 1/4 113 1/4 - 114 1/4 114 1/4 - 115 1/4 115 1/4 - 116 1/4 116 1/4 - 117 1/4 117 1/4 - 118 1/4 118 1/4 - 119 1/4 119 1/4 - 120 1/4 120 1/4 - 121 1/4 121 1/4 - 122 1/4 122 1/4 - 123 1/4 123 1/4 - 124 1/4 124 1/4 - 125 1/4 125 1/4 - 126 1/4 126 1/4 - 127 1/4 127 1/4 - 128 1/4 128 1/4 - 129 1/4 129 1/4 - 130 1/4 130 1/4 - 131 1/4 131 1/4 - 132 1/4 132 1/4 - 133 1/4 133 1/4 - 134 1/4 134 1/4 - 135 1/4 135 1/4 - 136 1/4 136 1/4 - 137 1/4 137 1/4 - 138 1/4 138 1/4 - 139 1/4 139 1/4 - 140 1/4 140 1/4 - 141 1/4 141 1/4 - 142 1/4 142 1/4 - 143 1/4 143 1/4 - 144 1/4 144 1/4 - 145 1/4 145 1/4 - 146 1/4 146 1/4 - 147 1/4 147 1/4 - 148 1/4 148 1/4 - 149 1/4 149 1/4 - 150 1/4 150 1/4 - 151 1/4 151 1/4 - 152 1/4 152 1/4 - 153 1/4 153 1/4 - 154 1/4 154 1/4 - 155 1/4 155 1/4 - 156 1/4 156 1/4 - 157 1/4 157 1/4 - 158 1/4 158 1/4 - 159 1/4 159 1/4 - 160 1/4 160 1/4 - 161 1/4 161 1/4 - 162 1/4 162 1/4 - 163 1/4 163 1/4 - 164 1/4 164 1/4 - 165 1/4 165 1/4 - 166 1/4 166 1/4 - 167 1/4 167 1/4 - 168 1/4 168 1/4 - 169 1/4 169 1/4 - 170 1/4 170 1/4 - 171 1/4 171 1/4 - 172 1/4		CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853						
					APPROVED BY: PGQ		DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE:	E	7102-065-SRC Iss No. 15 of 31	REV.

REVISIONS			DATE	APP
SYM	ZONE	DESCRIPTION		



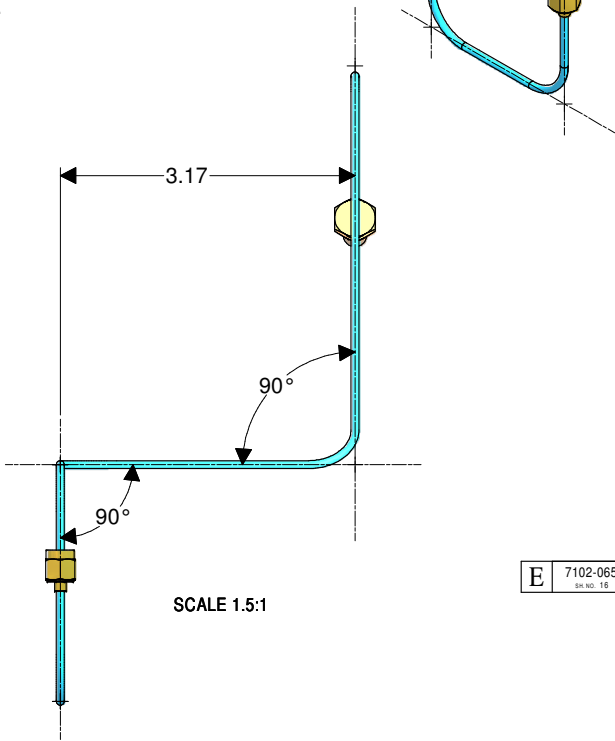
SCALE 1.5:1



DETAIL ZZ  
SCALE 3 : 1

DETAIL AAA  
SCALE 3 : 1

- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



SCALE 1.5:1

E	7102-065-SRC	REV.
	Rev. No. 16	Ch. 31

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 (Seas)			
WELDING OTHER (Gallagher)			
UTILITIES INTEGRATION (Gallagher)			
STOCKROOMS (Lockwood)			

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.

PLOT DATE: 1/9/2008  
CAD FILE NAME: 7102-065-SRC.dwg

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XX ± .010  
XX ± .005  
FRACTIONS ± .004  
ANGLES ± .01  
ALL SURFACES

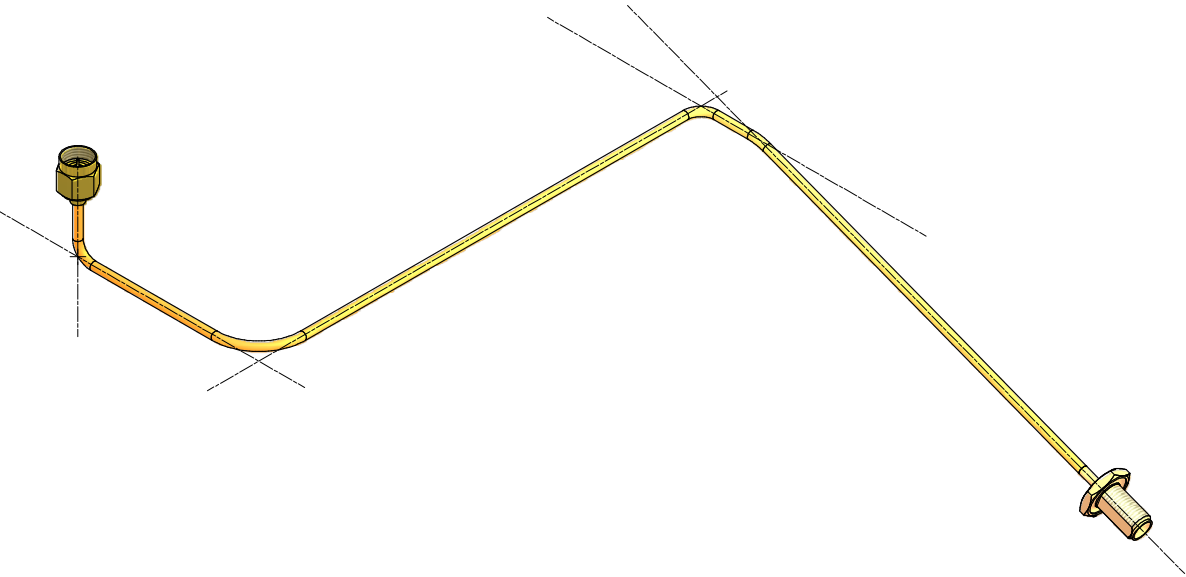
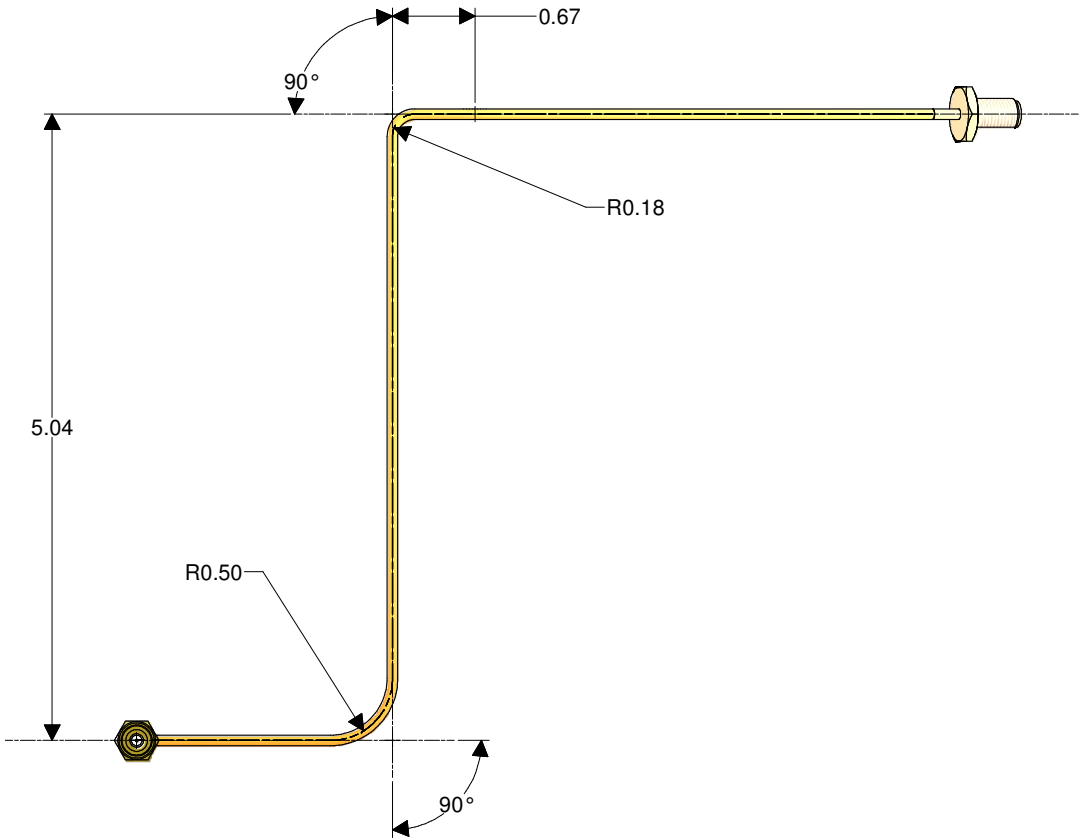
CORNELL  
UNIVERSITY  
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS

CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

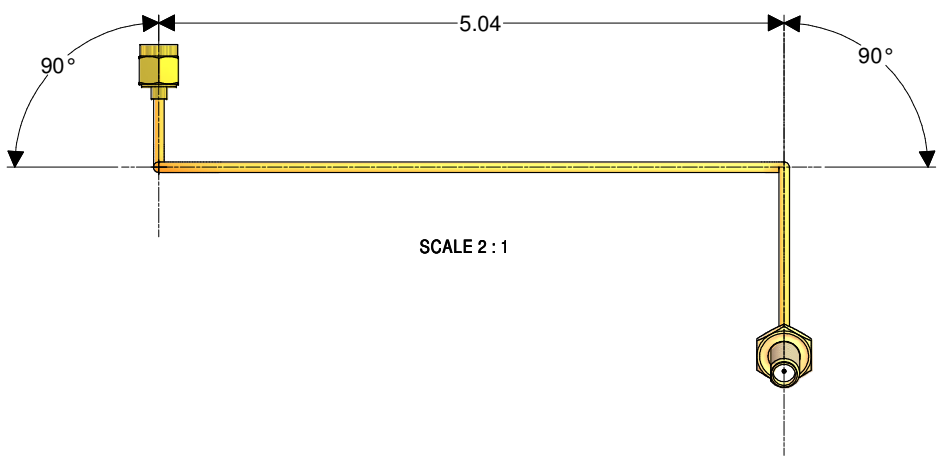
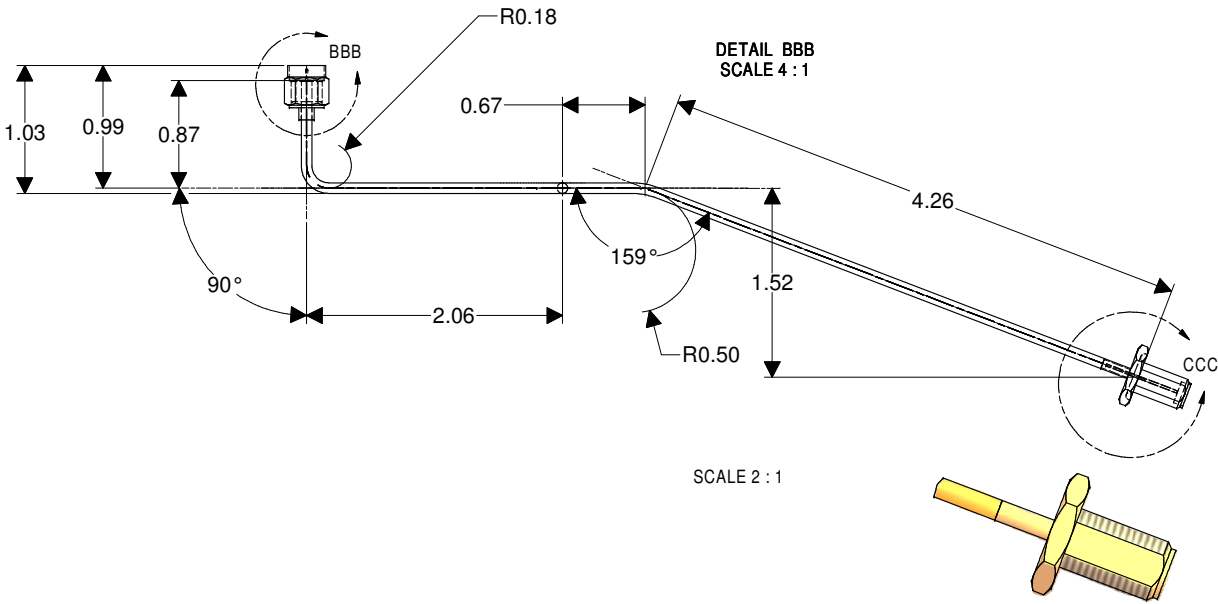
INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-HM-16

CHANGED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC	REV.
APPROVED BY: PGQ					Rev. No. 16	Ch. 31

REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP
A		Removed right angle connectors for vendor	2/24/07 PGQ



- Notes:
- Bend radii are 0.5" from center of conductor with the exception of 0.18" where noted.
  - Each cable shall have a part number label at each end.
  - Bulkhead Nut and lock washer not shown.



E	7102-065-SRC	REV A
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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 (Seas):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT							
DISTR.							

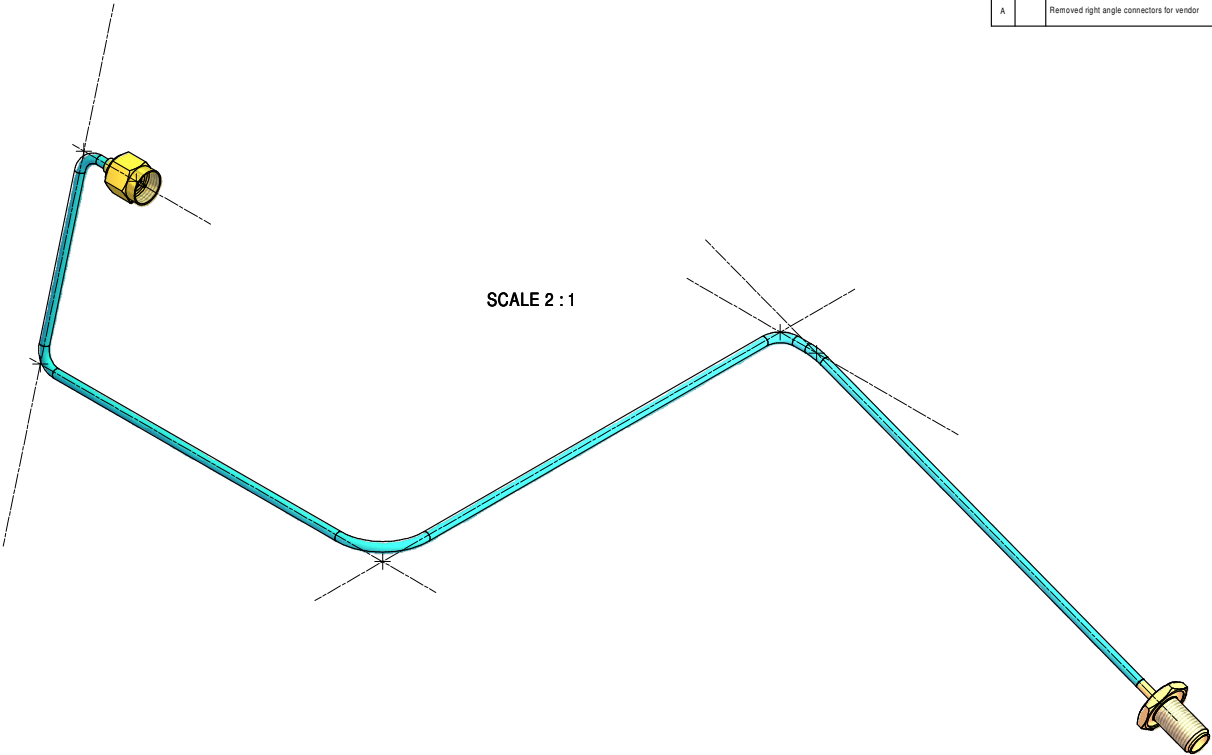
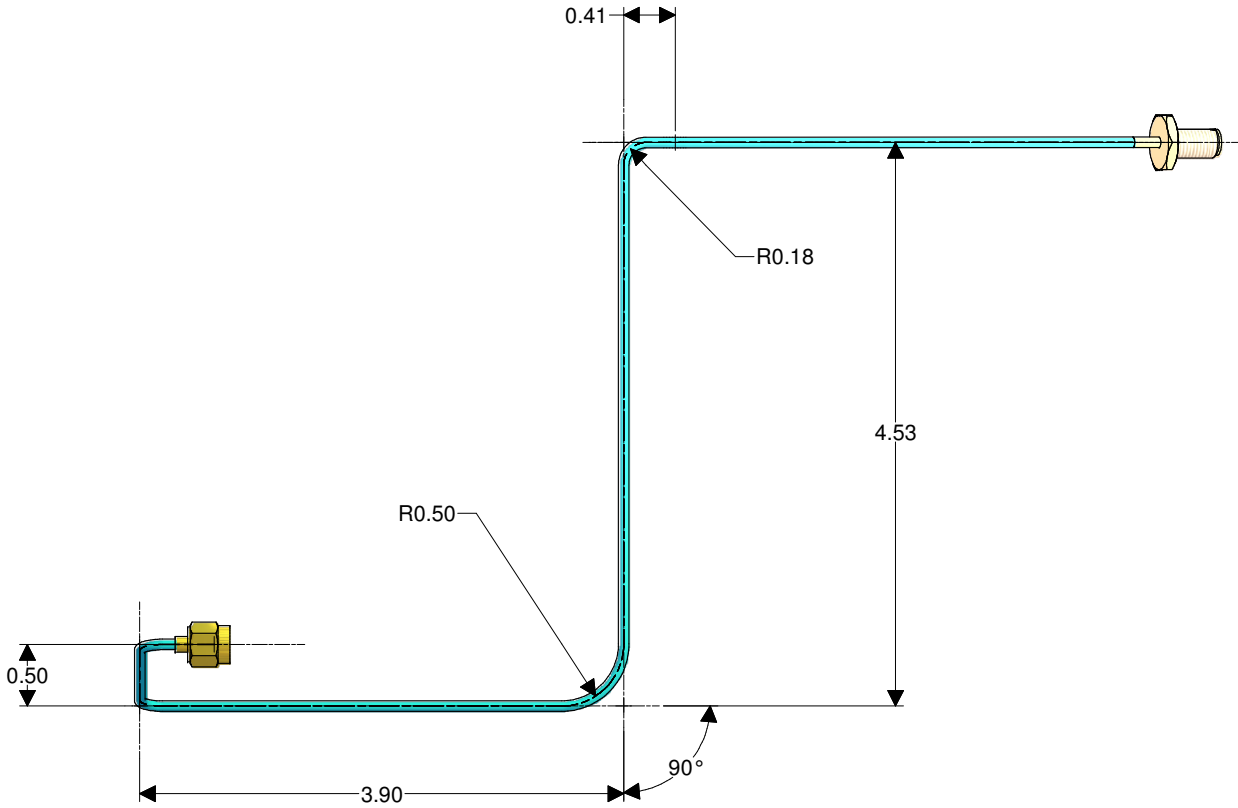
PLOT DATE: 1/9/2008  
CAD FILE NAME: 7102-065-SRC.dwg

UNLESS OTHERWISE SPECIFIED:			
DIMENSIONS ARE IN INCHES:			
TOLERANCES (IN):			
XXX ± .010			
FRACTIONS ± .104			
ANGLES ± .01			
ALL SURFACES			

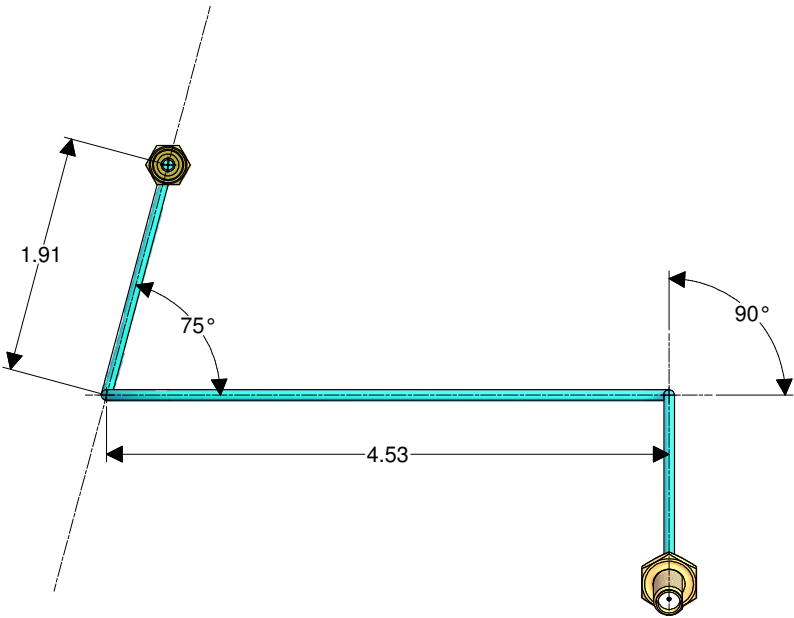
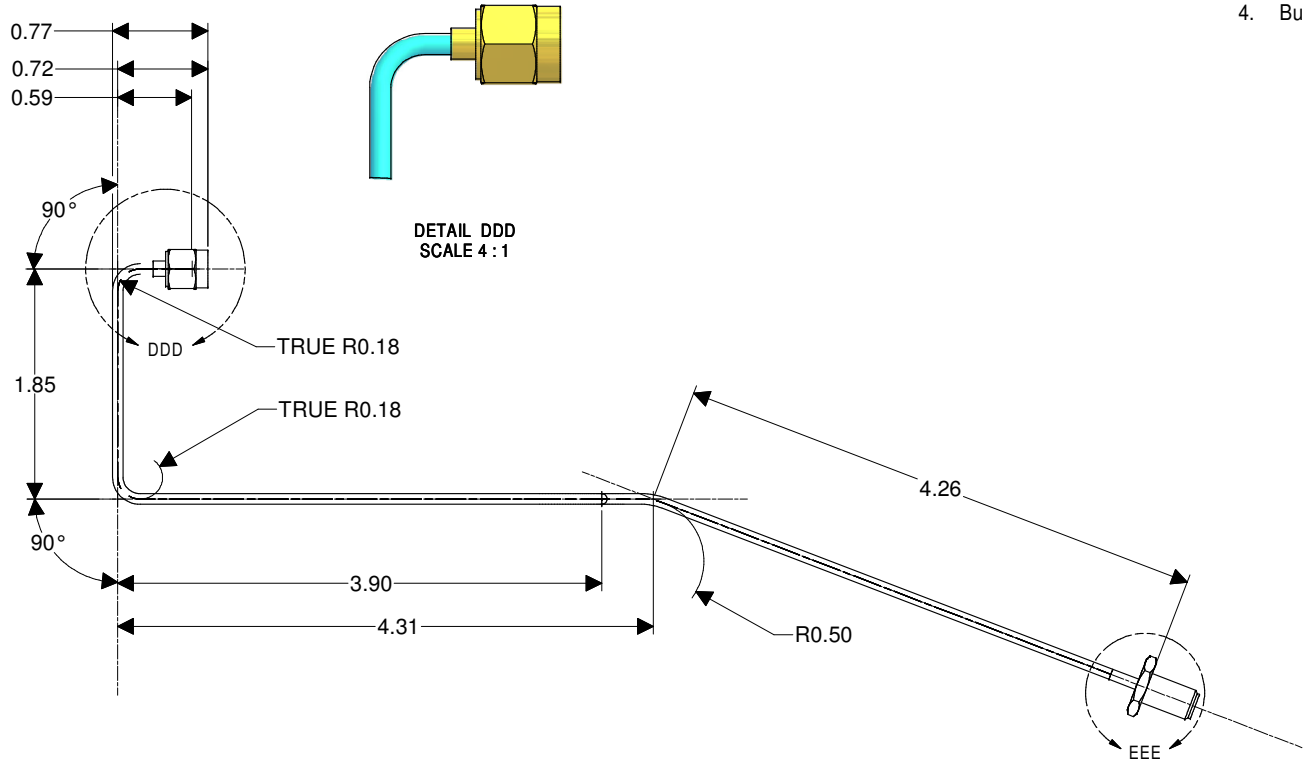
CORNELL UNIVERSITY	CORNELL UNIVERSITY
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS	Floyd R. Newman Laboratory
	Ithaca, NY 14853
INJECTOR CRYOMODULE SEMI-RIGID	
SR-ICM-WPM-1	

CHANGED BY	PGQ	DRAWN BY	quigley	DRAWN FOR	PGQ	DATE	9/24/2007	SCALE	E	7102-065-SRC	REV A
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REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP
A		Removed right angle connectors for vendor	2/24/07 PGQ



- Notes:
- Bend radii are 0.5" from center of conductor with the exception of 0.18" where noted.
  - Each cable shall have a part number label at each end.
  - Bulkhead Nut and lock washer not shown.



E	7102-065-SRC	REV
		A

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

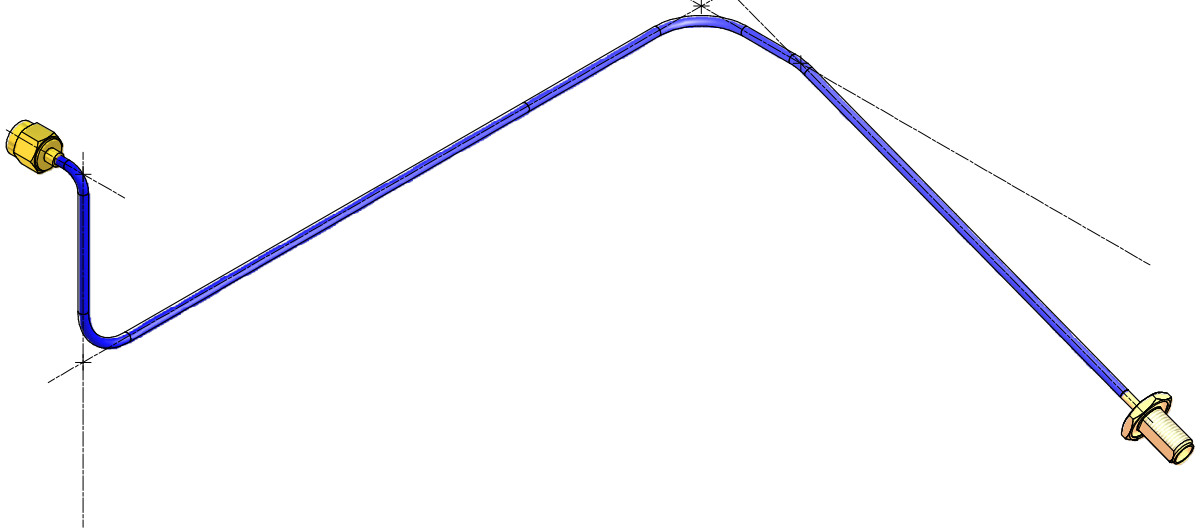
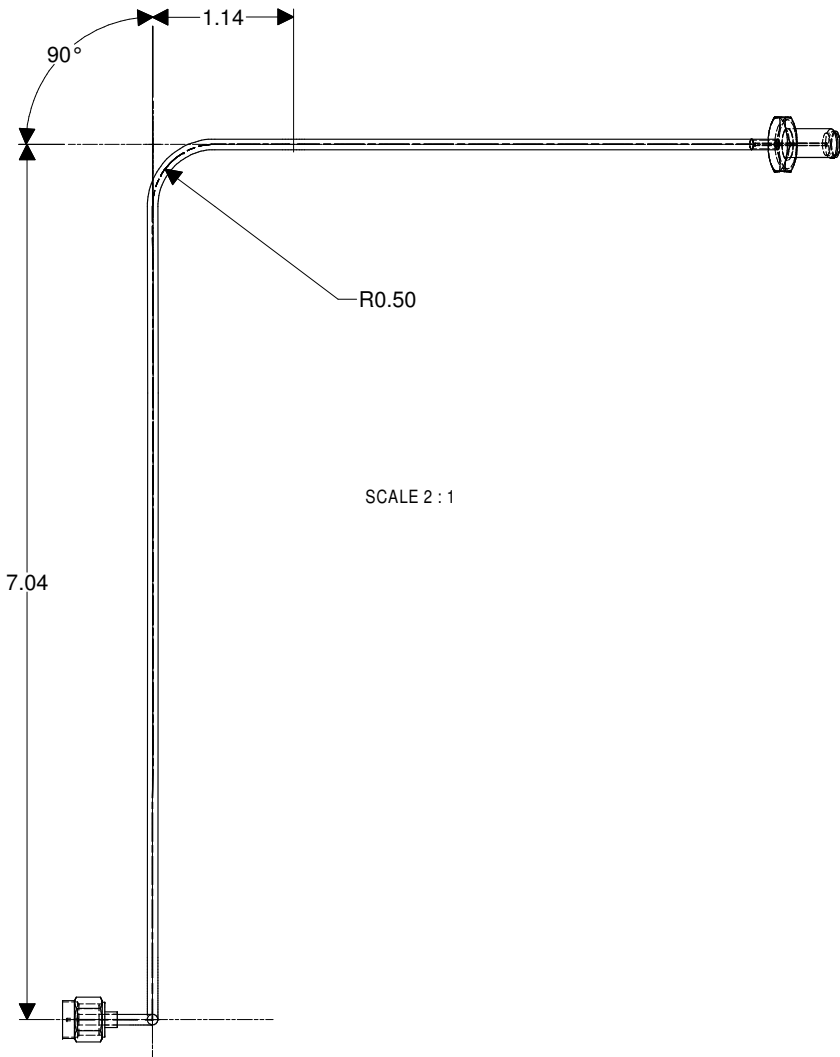
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Seas):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):	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

PRINT	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
DISTR.								

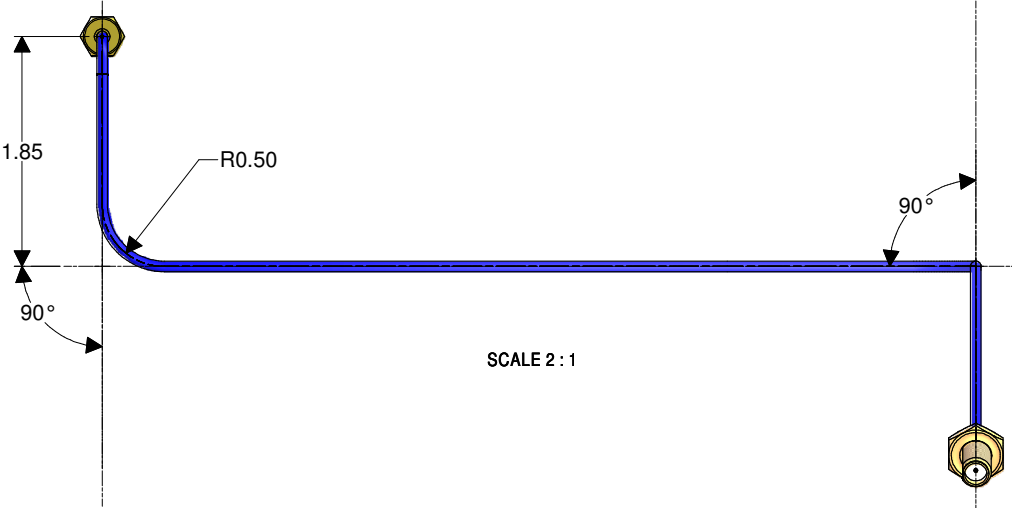
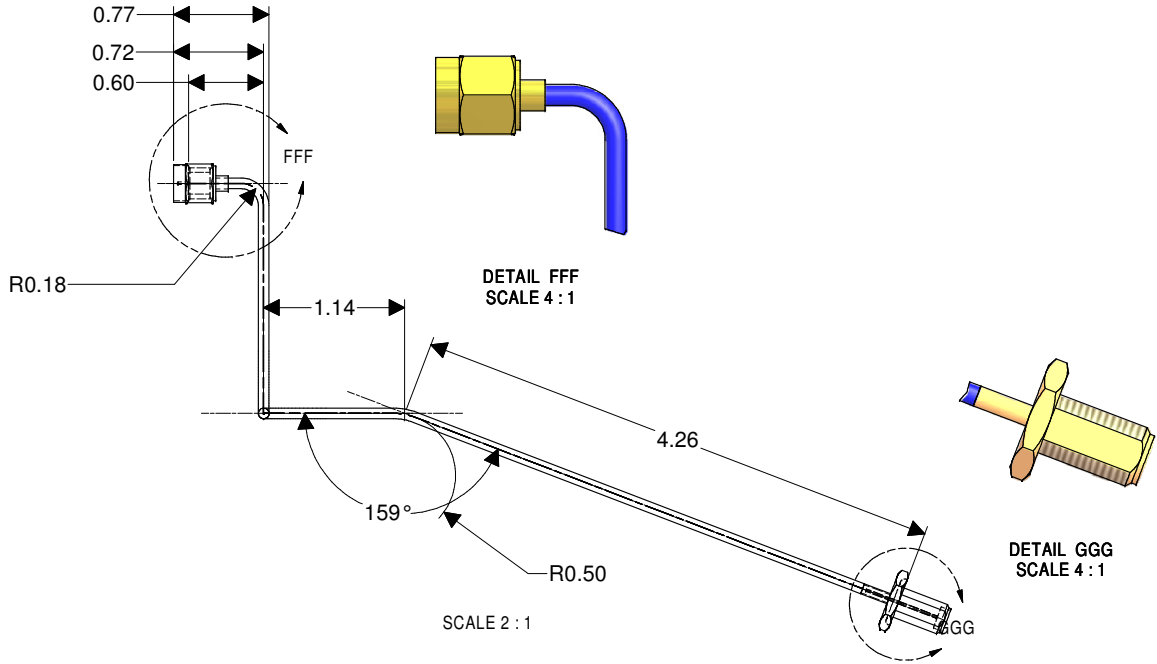
PLOT DATE: 1/9/2008  
CAD FILE NAME: 7102-065-SRC.dwg

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
0.005 ± 0.005  
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REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP
A		Removed right angle connectors for vendor	2/24/07 PGQ



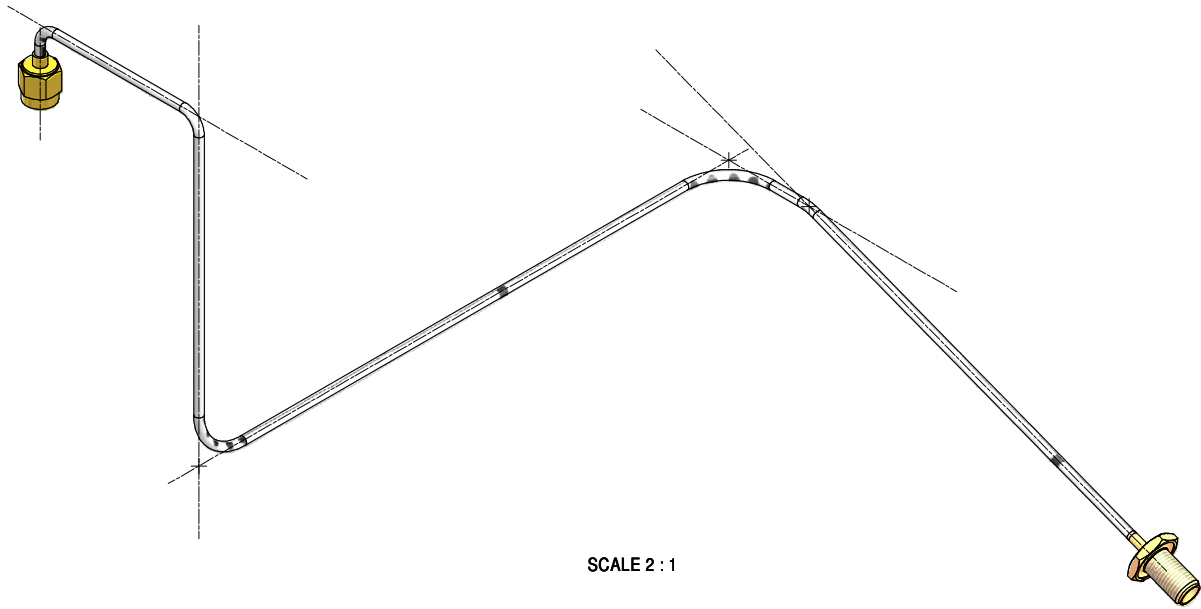
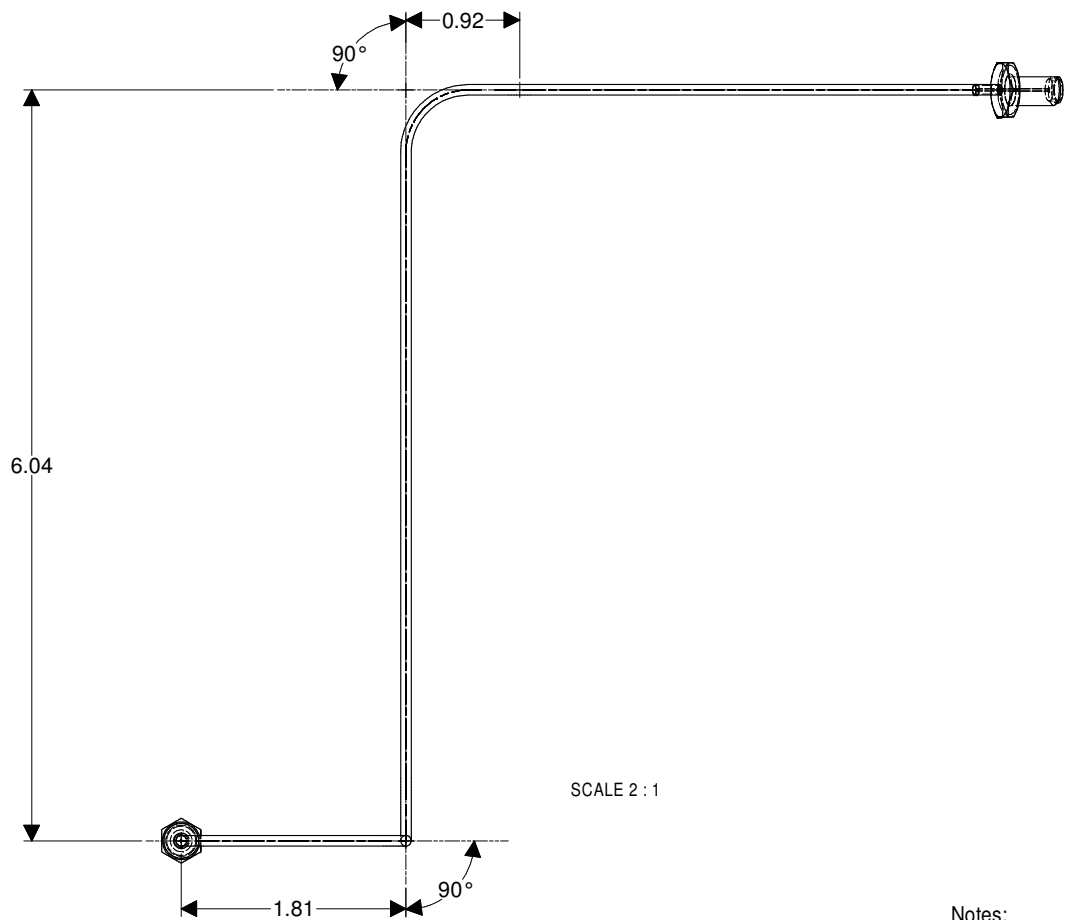
- Notes:
1. Bend radii are 0.5" from center of conductor with the exception of 0.18" where noted.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



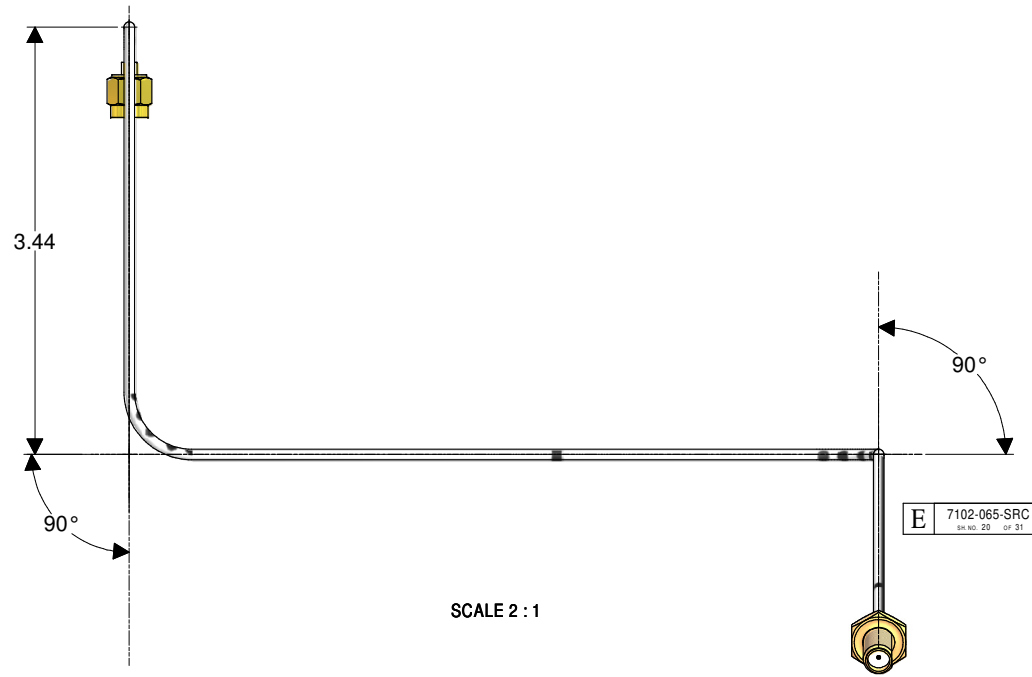
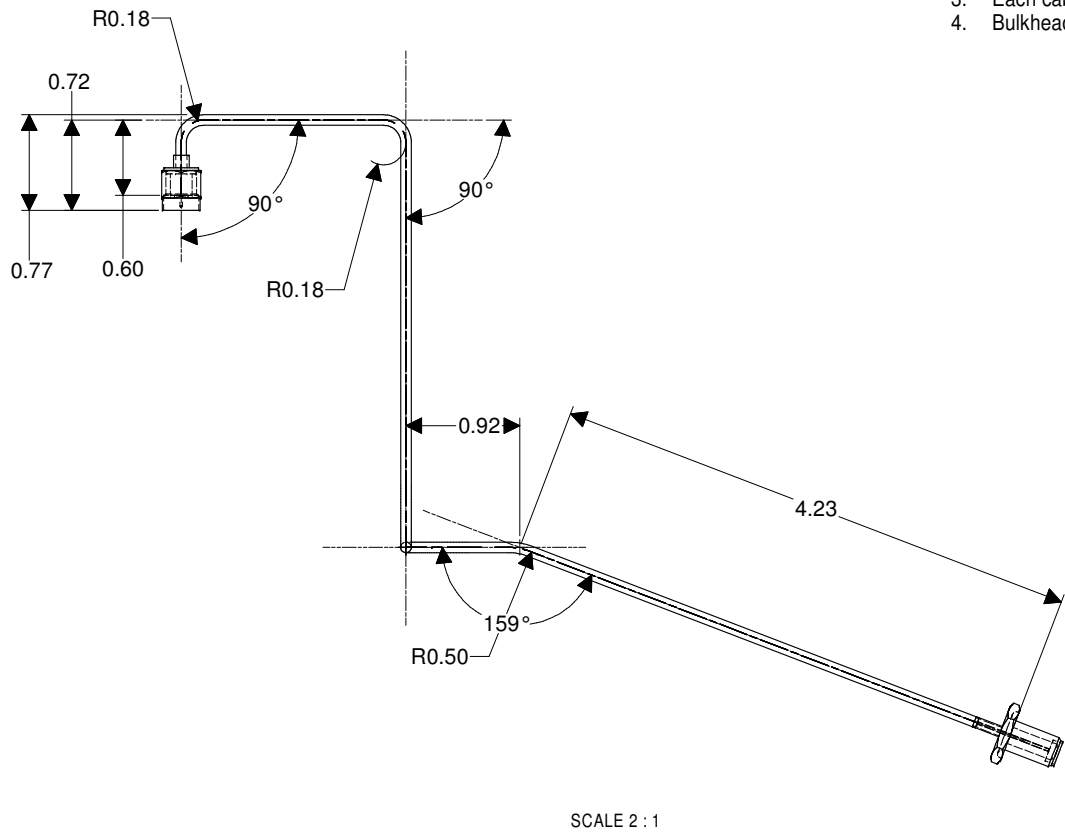
E	7102-065-SRC	REV A
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FOR MACHINING LUBRICANT USE ONLY ALKALINE DETERGENT LUBRICANT CIMSTAR 40 OR EQUIVALENT APPROVED BY CORNELL LEPP				ITEM		DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.		
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION				PRINT DISTR.		PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES (IN): XXX ± .006 FRACTIONS ± .004 ANGLES ± .01 ALL SURFACES					CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853	
DRAFTING (O'Connell): MACHINE SHOP (Kaminski): CHEMISTRY (Conklin): ELECTRONICS SHOP (Barley): FURNACE BRAZING (Sherwood): BEAM WELDING (Seas): WELDING OTHER (Gallagher): UTILITIES INTEGRATION (Gallagher): STOCKROOMS (Lockwood):				7102-065-SRC REV A		CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853 INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-WPM-3		CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853						
DRAWN BY: PGQ APPROVED BY: PGQ				DRAWN BY: quigley		DRAWN FOR: PGQ		DATE: 9/24/2007		SCALE: E		7102-065-SRC REV A		

REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP
A		Removed right angle connectors for vendor	2/24/07 PGQ



- Notes:
1. Bend radii are 0.5" from center of conductor with the exception of 0.18" where noted.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



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 (Seas)			
WELDING OTHER (Gallagher)			
UTILITIES INTEGRATION (Gallagher)			
STOCKROOMS (Lockwood)			

PRINT  
DISTR.

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
7102-065-SRC							

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XXX ± .010  
XXX ± .005  
FRACTIONS ± .004  
ANGLES ± .01  
ALL SURFACES

**CORNELL UNIVERSITY**  
**LEPP**  
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS

CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

**INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-WPM-4**

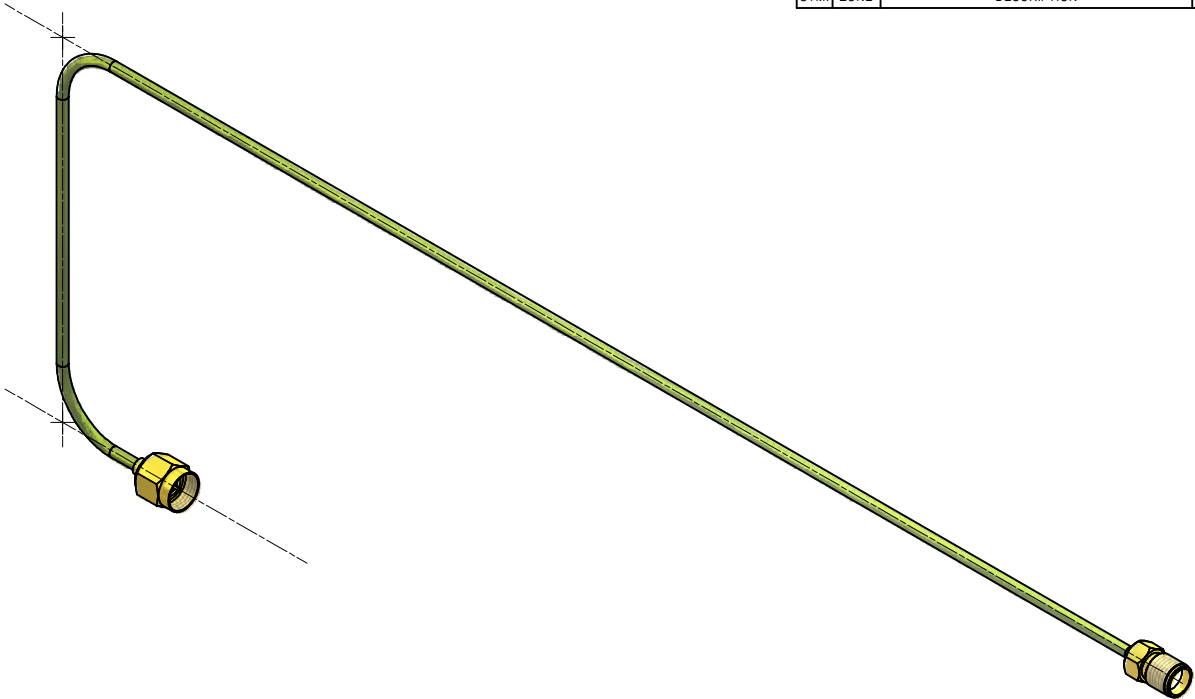
CHANGED BY	PGQ	DRAWN BY	quigley	DRAWN FOR	PGQ	DATE	9/24/2007	SCALE	E	7102-065-SRC	REV	A
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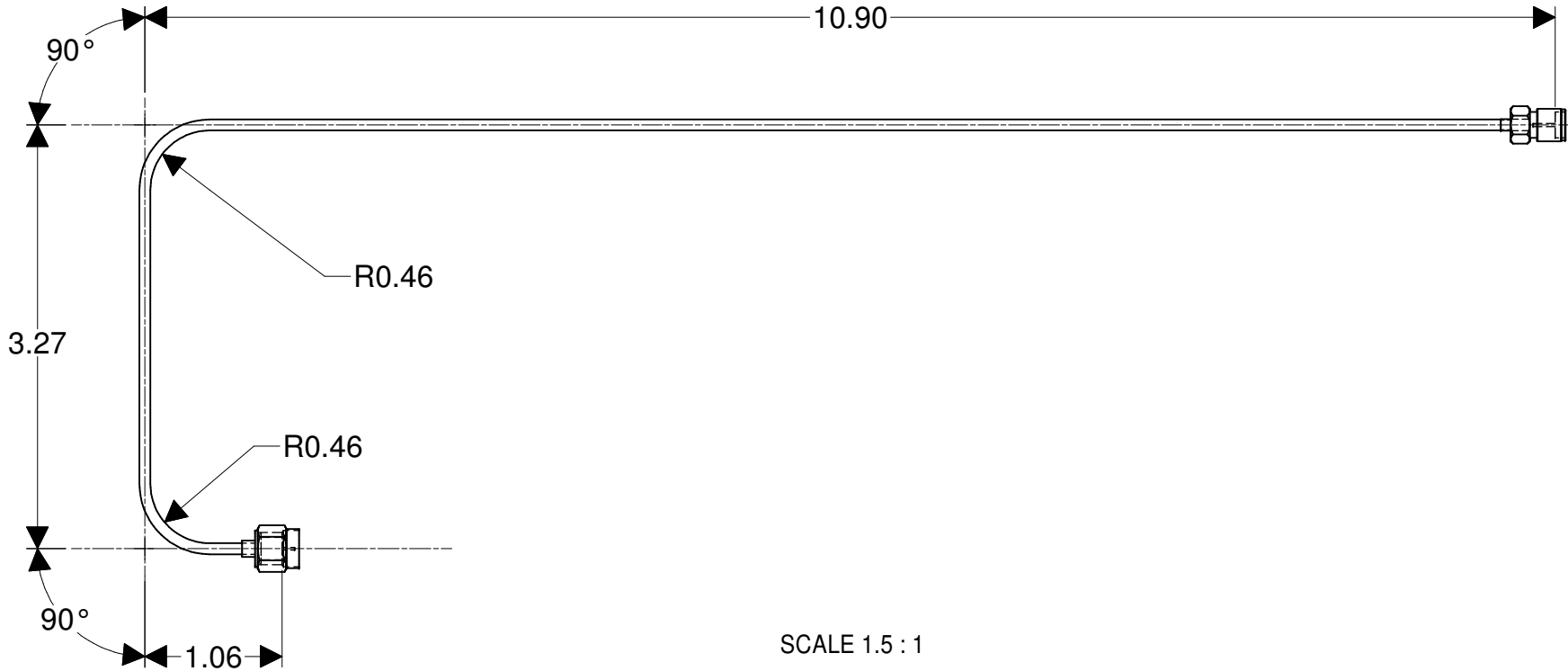
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



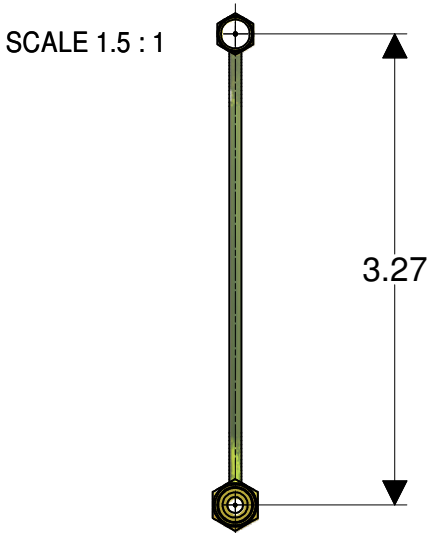
SCALE 1.5 : 1



- Notes:
- 1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  - 3. Each cable shall have a part number label at each end.
  - 4. Bulkhead Nut and lock washer not shown.



SCALE 1.5 : 1



SCALE 1.5 : 1

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):			

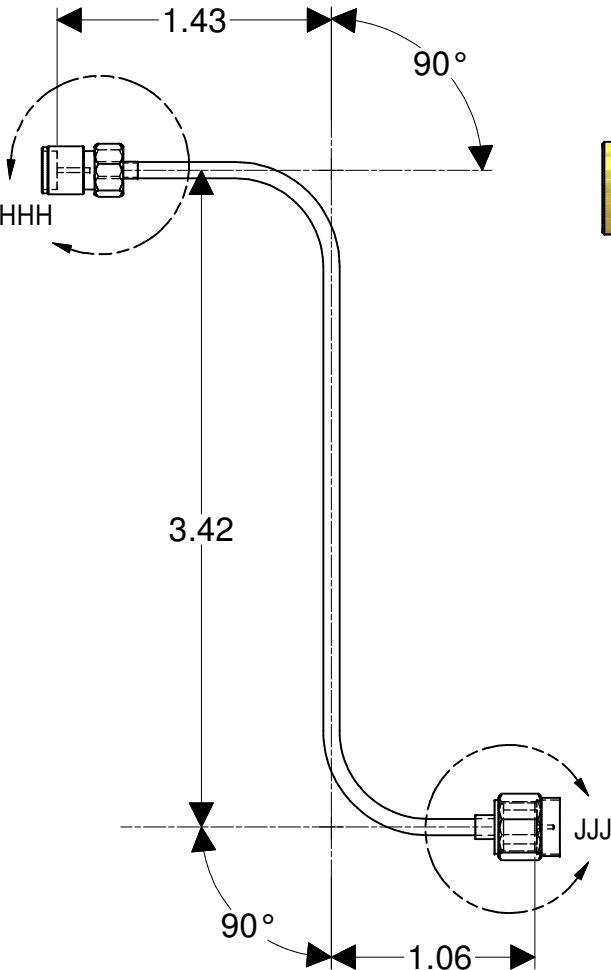
D	PRINT DISTR.	ITEM	DWG. NO.	SCALE 1.5 : 1	G1	G2	G3	REMARKS	REV.
		PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw			QUANTITY				
7102-065-SRC		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES		<b>CORNELL UNIVERSITY</b> FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853 <b>INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-CAV-1A</b>					
REV.		CHECKED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: D	7102-065-SRC		REV.
		APPROVED BY: PGQ				SH. NO. 21 OF 31			

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

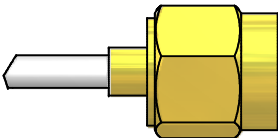
SCALE 2 : 1

- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.

SCALE 2 : 1



DETAIL HHH  
SCALE 4 : 1



DETAIL JJJ  
SCALE 4 : 1

3.42

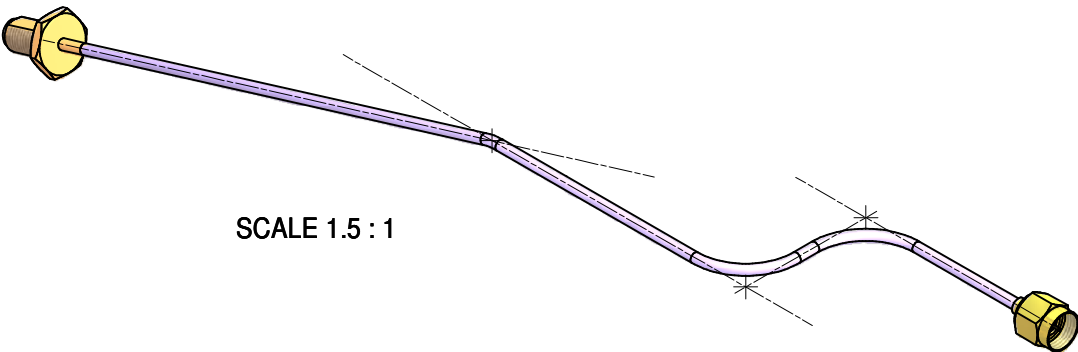
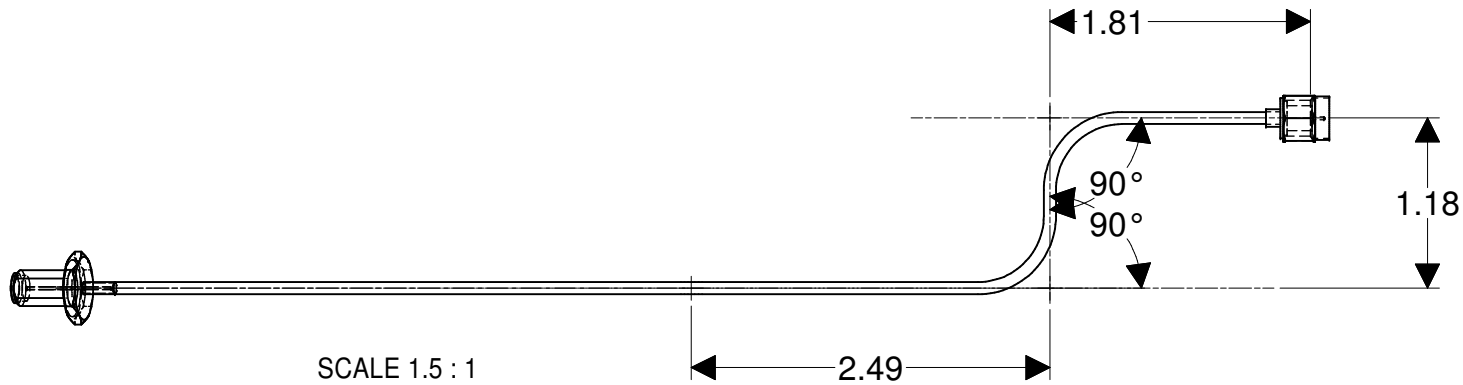
SCALE 2 : 1

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

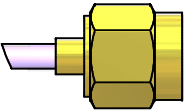
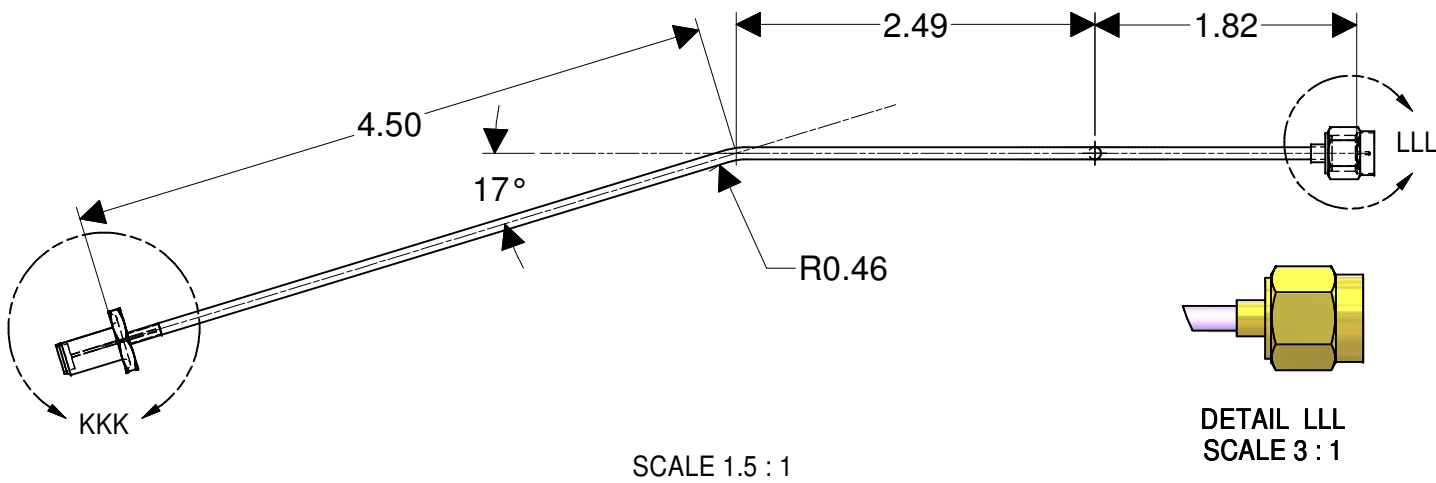
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):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

D	PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
		PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw							
7102-065-SRC	REV.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES		<b>CORNELL UNIVERSITY</b> <b>LEPP</b> LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853					
		CHECKED BY: PGQ APPROVED BY: PGQ		DRAWN BY quigley	DRAWN FOR PGQ	DATE 9/24/2007	SCALE D	7102-065-SRC SH. NO. 22 OF 31	

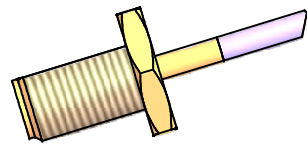
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



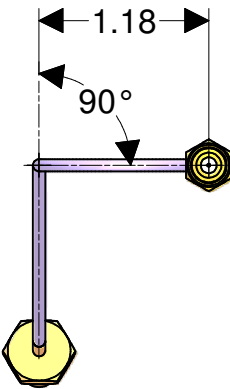
- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



DETAIL LLL  
SCALE 3 : 1



DETAIL KKK  
SCALE 3 : 1



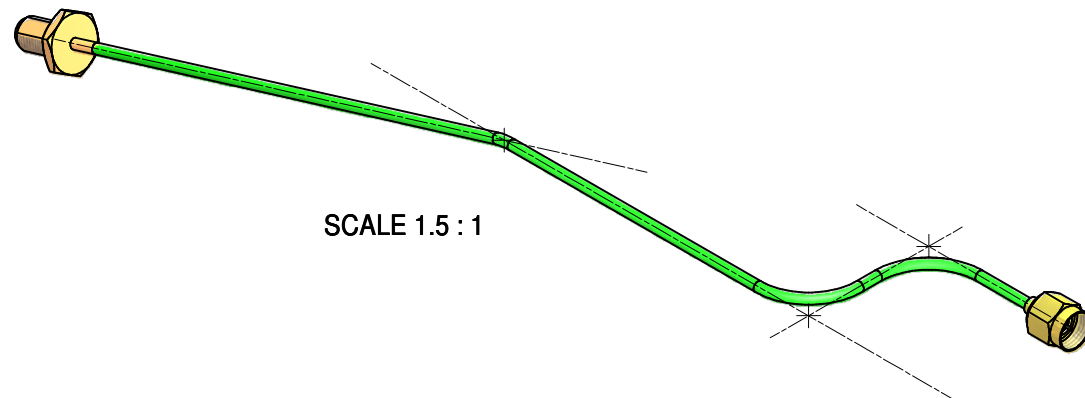
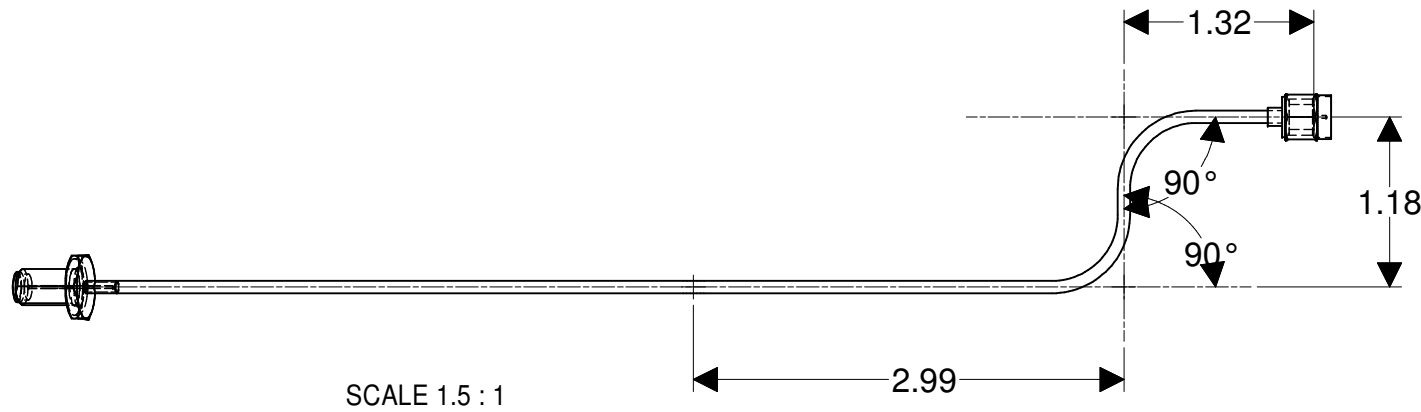
SCALE 1.5 : 1

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

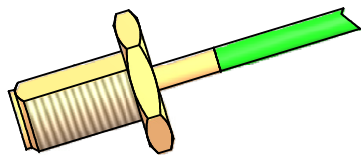
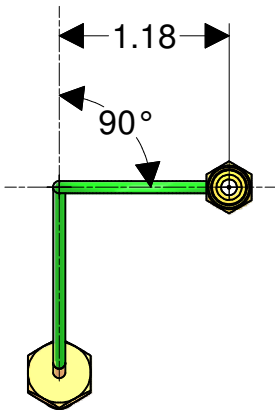
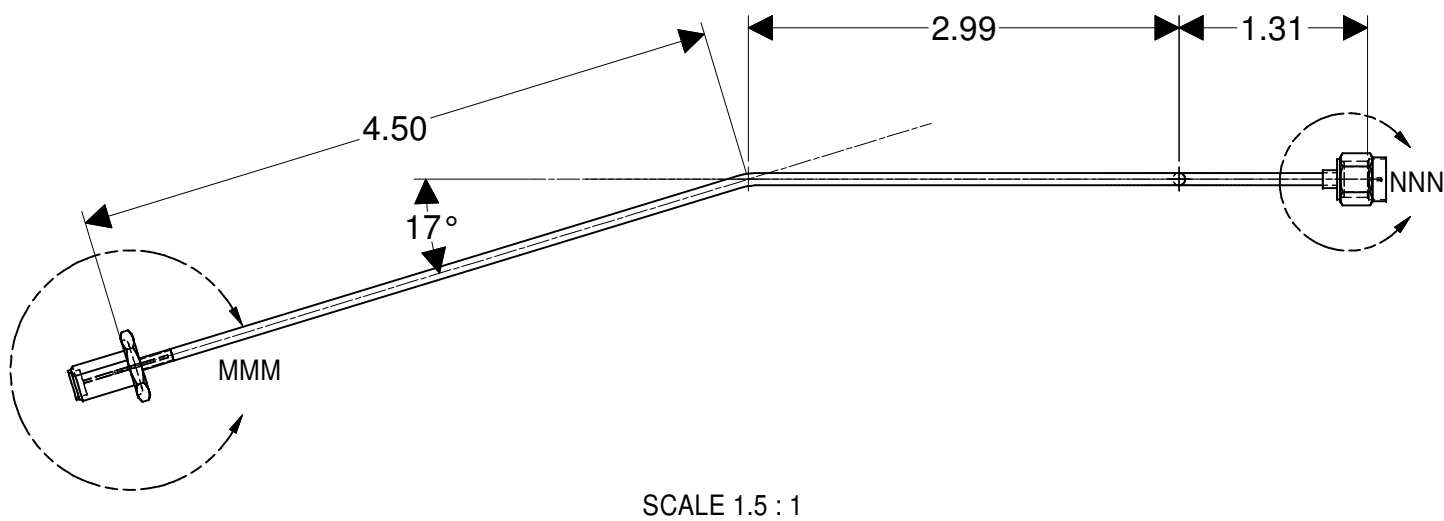
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):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

D	PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.		
		QUANTITY									
7102-065-SRC		PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw									
SH. NO. 23 OF 31		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES		<b>CORNELL UNIVERSITY</b> <b>LEPP</b> LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853							
REV.		CHECKED BY: PGQ APPROVED BY: PGQ		DRAWN BY quigley		DRAWN FOR PGQ		DATE 9/24/2007	SCALE D	7102-065-SRC SH. NO. 23 OF 31	REV.

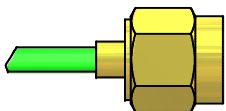
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



DETAIL MMM  
SCALE 3 : 1



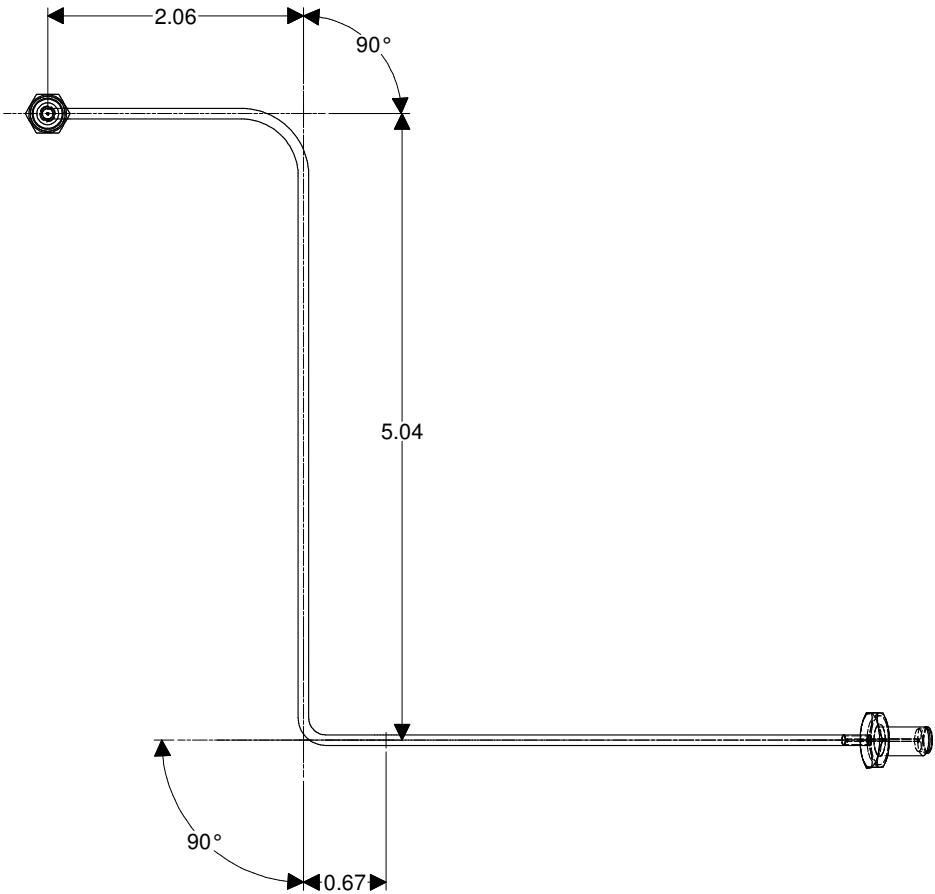
DETAIL NNN  
SCALE 3 : 1

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

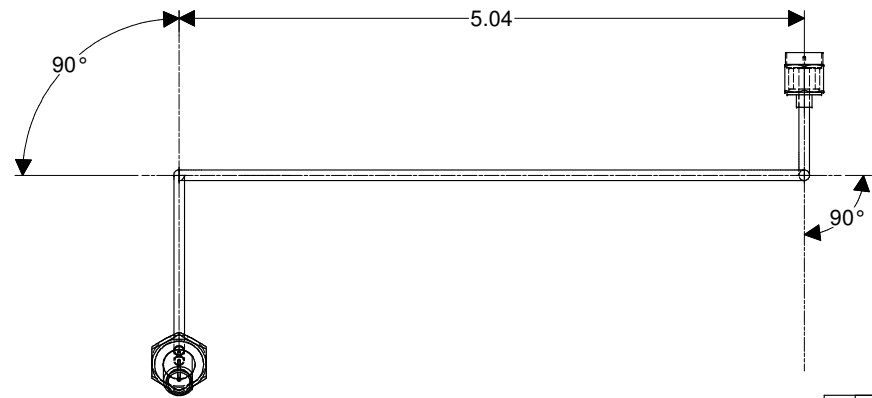
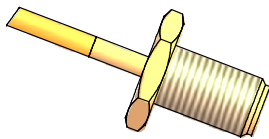
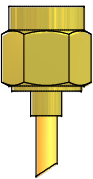
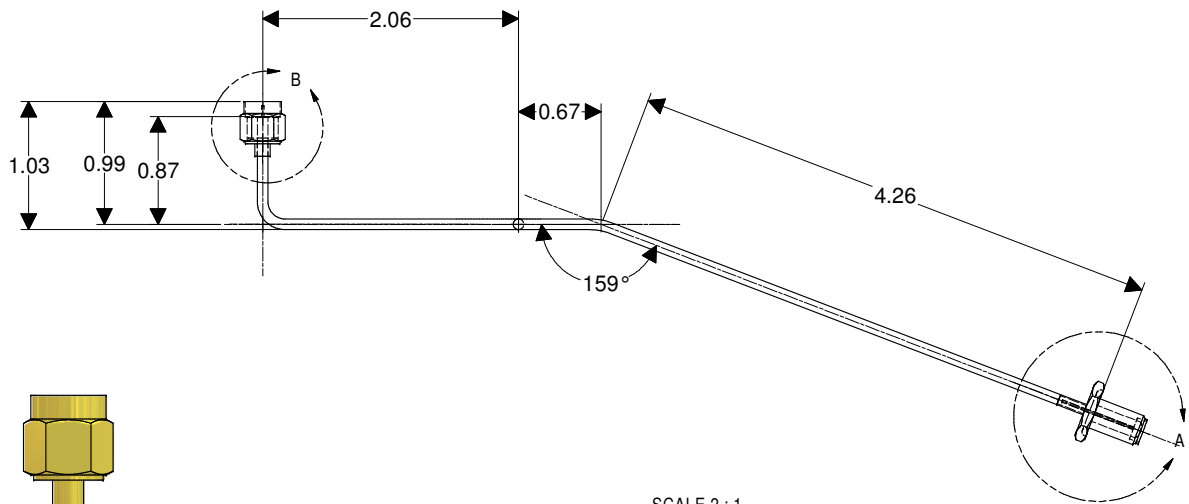
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):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

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.	
								QUANTITY					
D		PRINT DISTR.	PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw										
7102-065-SRC SH. NO. 24 OF 31		UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES		 <b>CORNELL UNIVERSITY</b> <b>LEPP</b> LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853						
				INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-CAV-2B									
REV.		CHECKED BY: PGQ  APPROVED BY: PGQ		DRAWN BY quigley		DRAWN FOR PGQ		DATE 9/24/2007		SCALE D	7102-065-SRC SH. NO. 24 OF 31		REV.

REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP
A		Removed right angle connectors for vendor	2/24/07 PGQ



- Notes:
1. This assembly is the mirror image of SR-ICM-WPM-1
  2. Large bend radii are 0.5" from center of conductor. Small bend radii are 0.18" from the center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



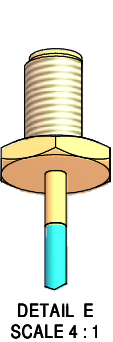
E	7102-065-SRC	REV A
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FOR MACHINING LUBRICANT USE ONLY  
ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
OR EQUIVALENT APPROVED BY CORNELL LEPP

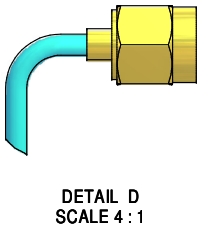
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION		
OK	DATE	N/A
DRAFTING (O'Connell):		
MACHINE SHOP (Kaminski):		
CHEMISTRY (Conklin):		
ELECTRONICS SHOP (Barley):		
FURNACE BRAZING (Sherwood):		
BEAM WELDING (Seas):		
WELDING OTHER (Gallagher):		
UTILITIES INTEGRATION (Gallagher):		
STOCKROOMS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

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
7102-065-SRC							
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES (IN): XXX ± .005 FRACTIONS ± .004 ANGLES ± .01 ALL SURFACES							
CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853							
INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-WPM-1M							
CHANGED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC	REV A	
APPROVED BY: PGQ							

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APP
A		Removed right angle connectors for vendor	2/24/07	PGQ



- Notes:
1. This assembly is the mirror image of SR-ICM-WPM-2
  2. Large bend radii are 0.5" from center of conductor. Small bend radii are 0.18" from the center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



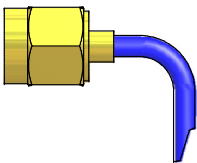
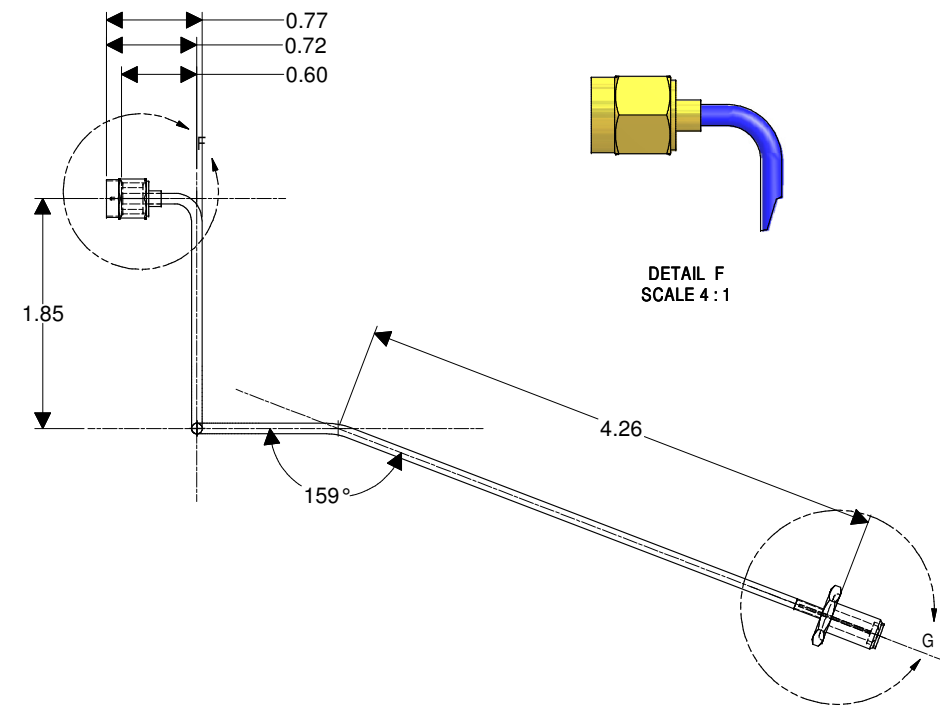
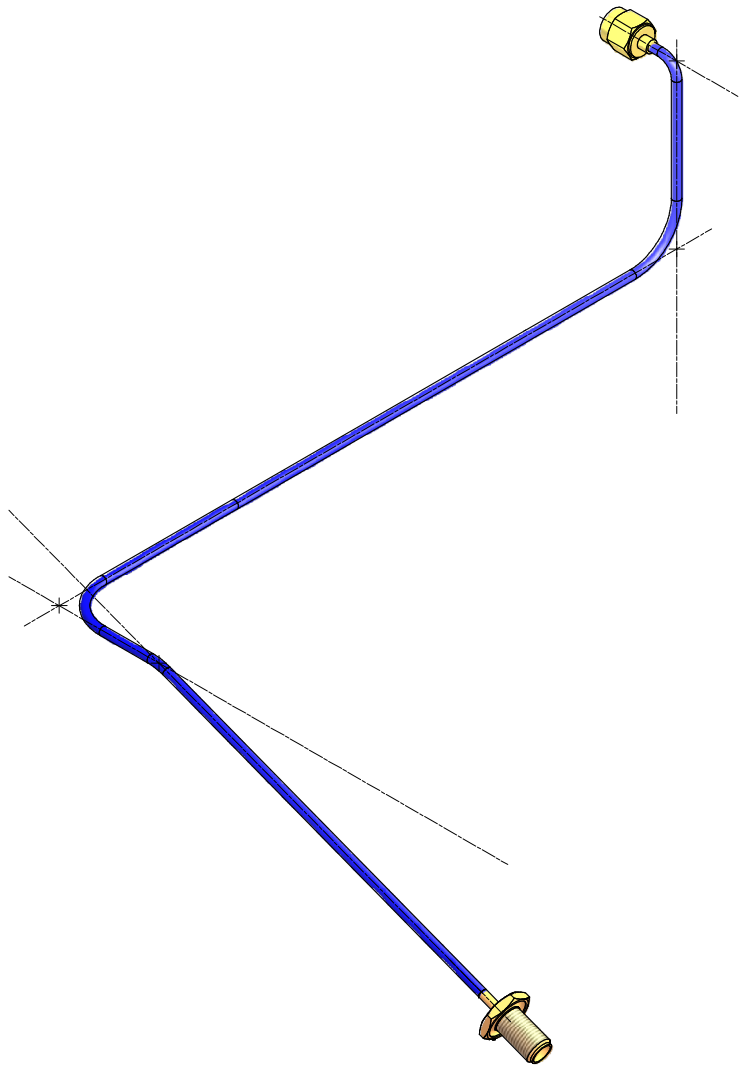
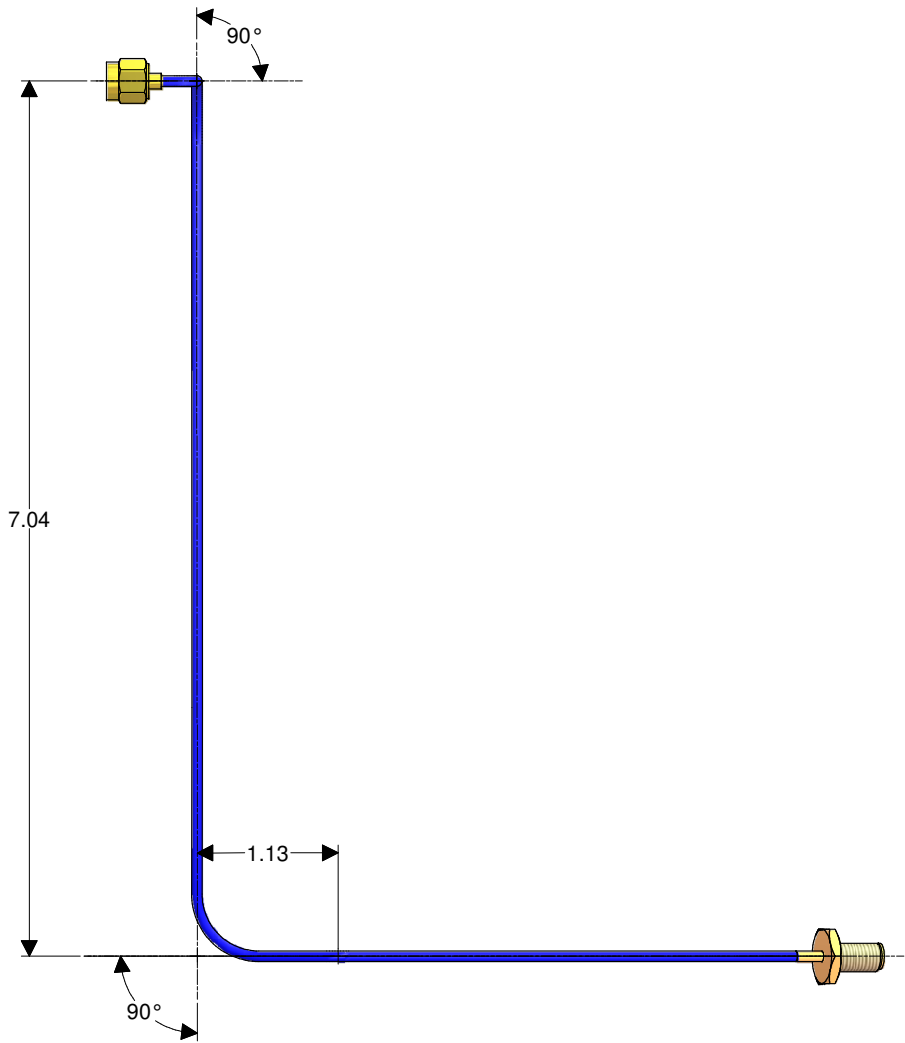
E	7102-065-SRC	REV A
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FOR MACHINING LUBRICANT USE ONLY  
ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
OR EQUIVALENT APPROVED BY CORNELL LEPP

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 (Seas):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT							
DISTR.							
PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw							
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES (IN): XXX ± .006 FRACTIONS ± .104 ANGLES ± .01 ALL SURFACES ✓							
CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853							
INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-WPM-2M							
CREATED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC	REV A	
APPROVED BY: PGQ							

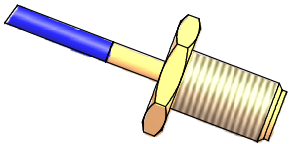
REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP
A		Removed right angle connectors for vendor	2/24/07 PGQ



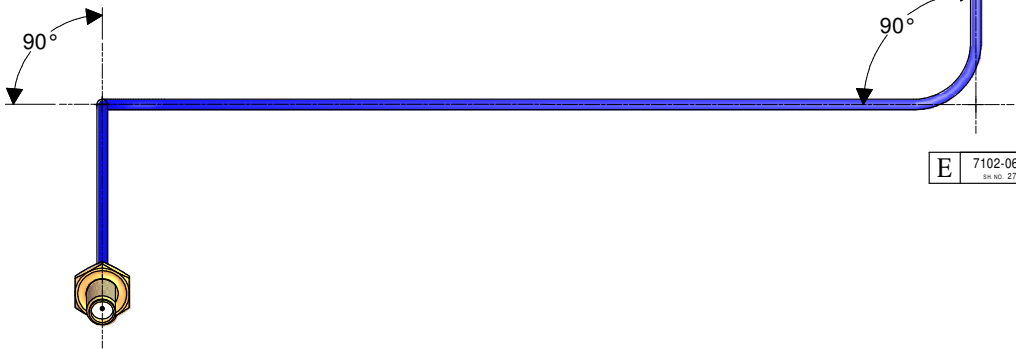
DETAIL F  
SCALE 4 : 1

Notes:

1. This assembly is the mirror image of SR-ICM-WPM-3
2. Large bend radii are 0.5" from center of conductor. Small bend radii are 0.18" from the center of conductor.
3. Each cable shall have a part number label at each end.
4. Bulkhead Nut and lock washer not shown.



DETAIL G  
SCALE 4 : 1



E	7102-065-SRC	REV A
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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'Connor):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Seas):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.

PLOT DATE: 1/9/2008  
CAD FILE NAME: 7102-065-SRC.dwg

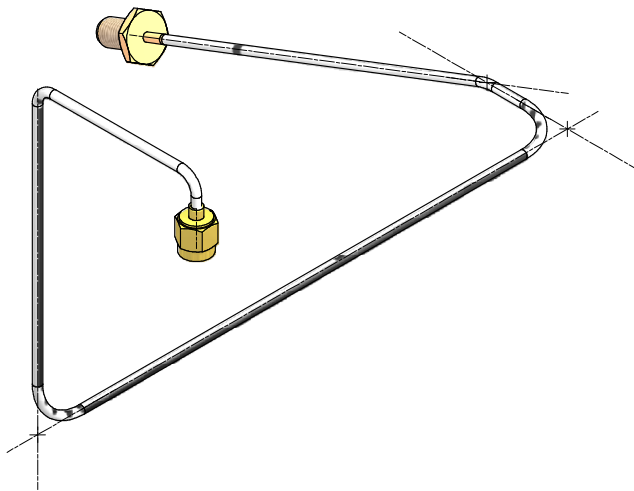
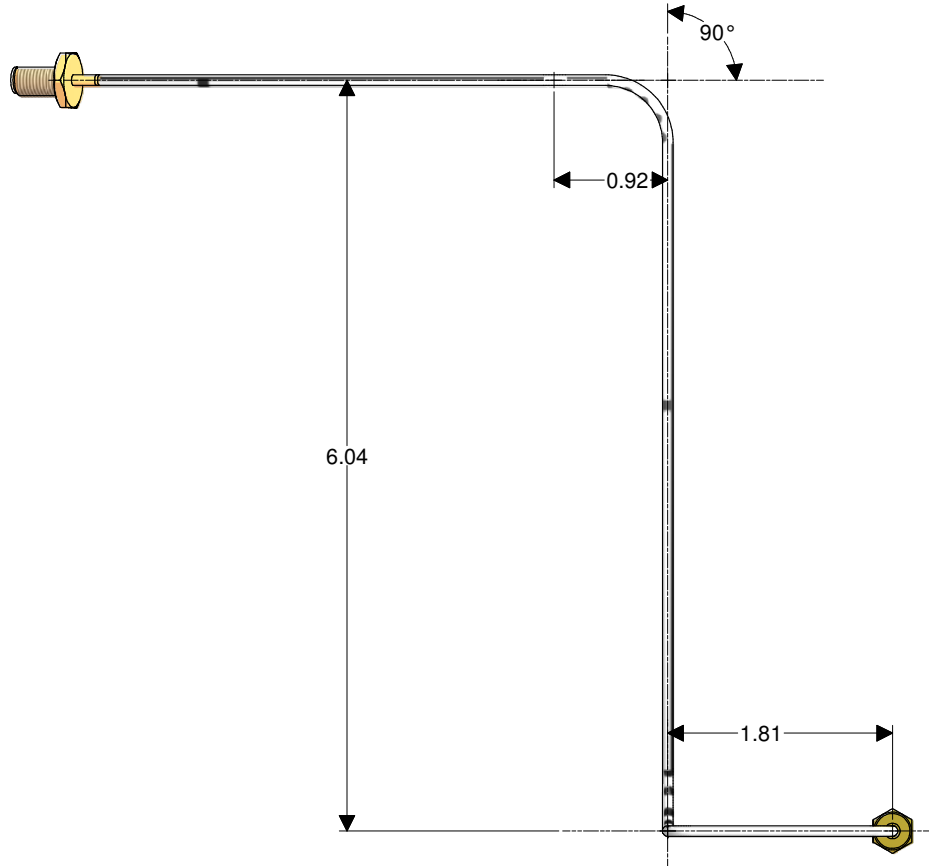
UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XXX ± .005  
FRACTIONS ± .004  
ANGLES ± .01  
ALL SURFACES

CORNELL UNIVERSITY  
FLOYD R. NEWMAN LABORATORY  
ITHACA, NY 14853

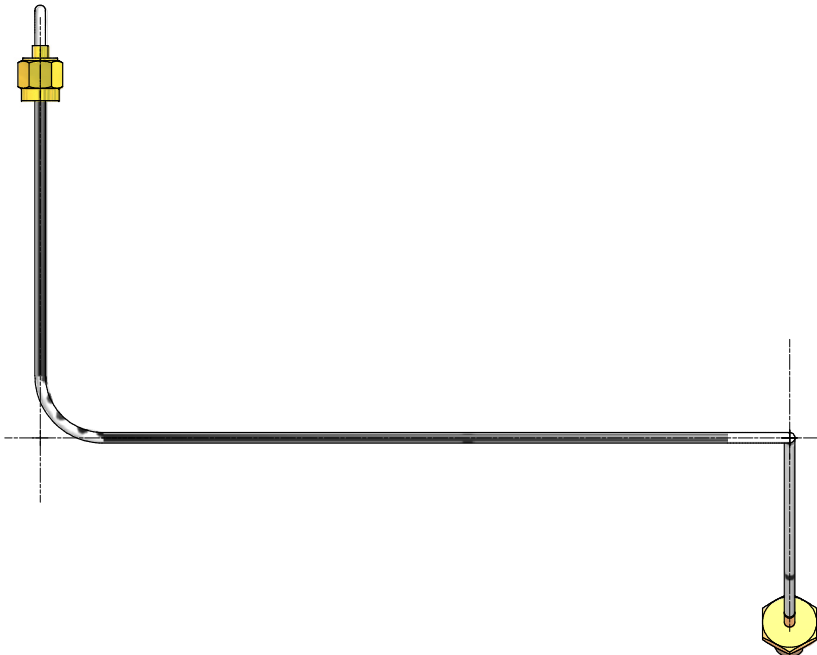
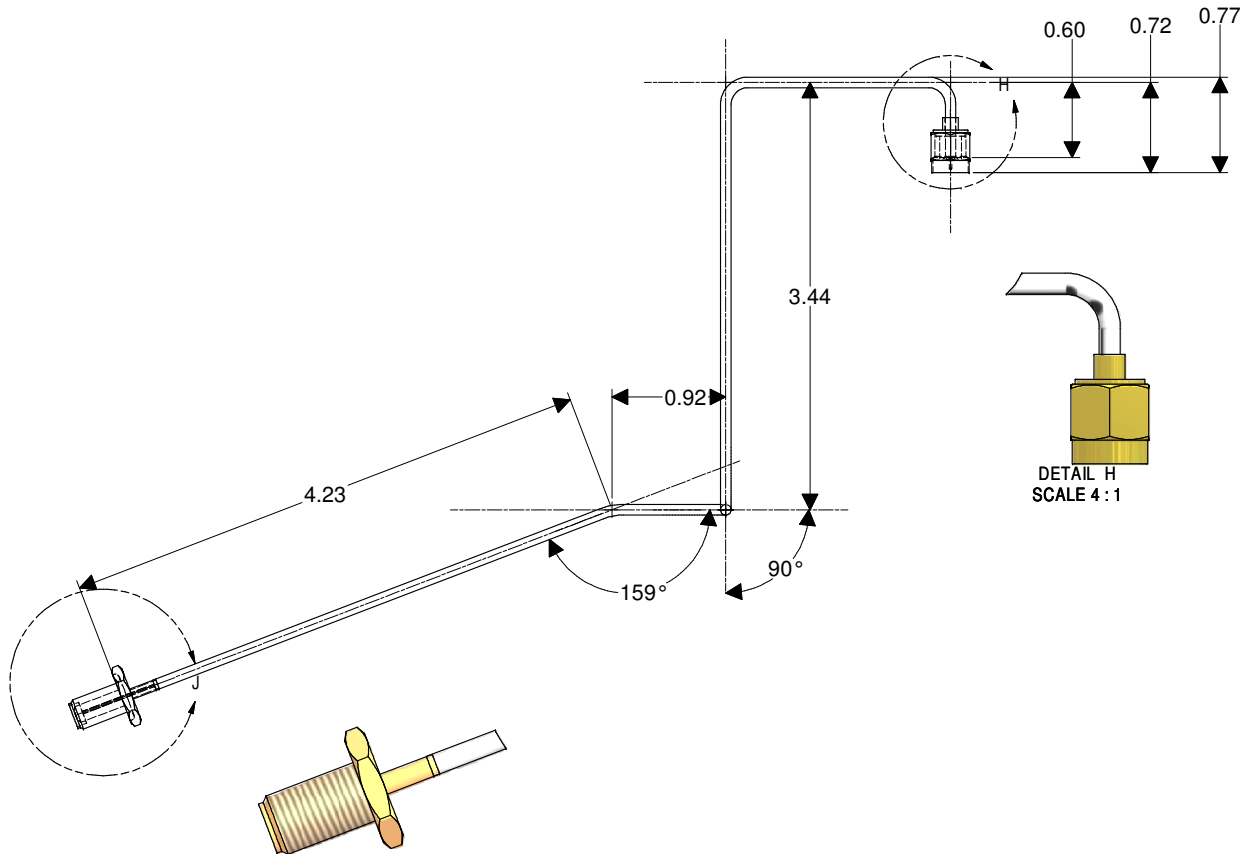
INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-WPM-3M

CHANGED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC	REV A
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REVISIONS			
SYM	ZONE	DESCRIPTION	DATE APP
A		Removed right angle connectors for vendor	2/24/07 PGQ



- Notes:
1. This assembly is the mirror image of SR-ICM-WPM-4
  2. Large bend radii are 0.5" from center of conductor. Small bend radii are 0.18" from the center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.

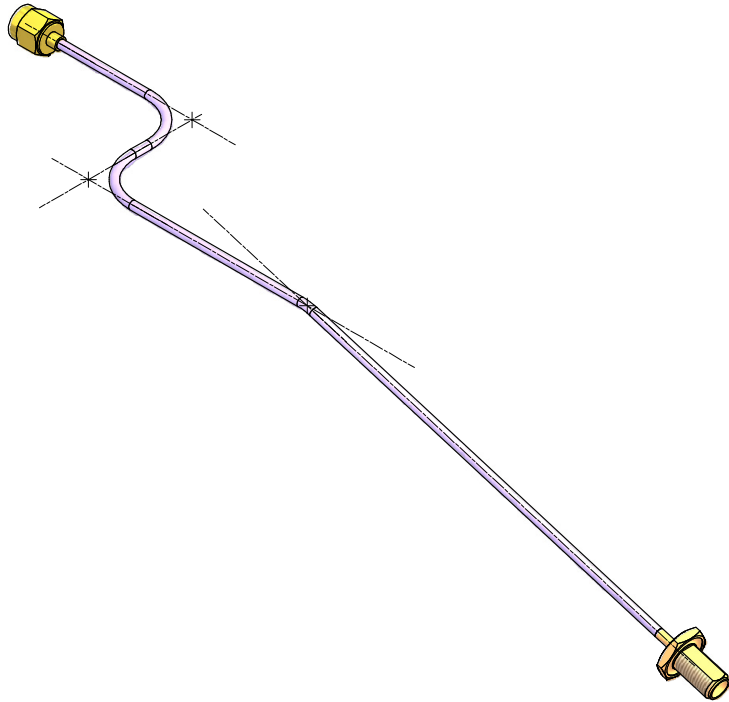
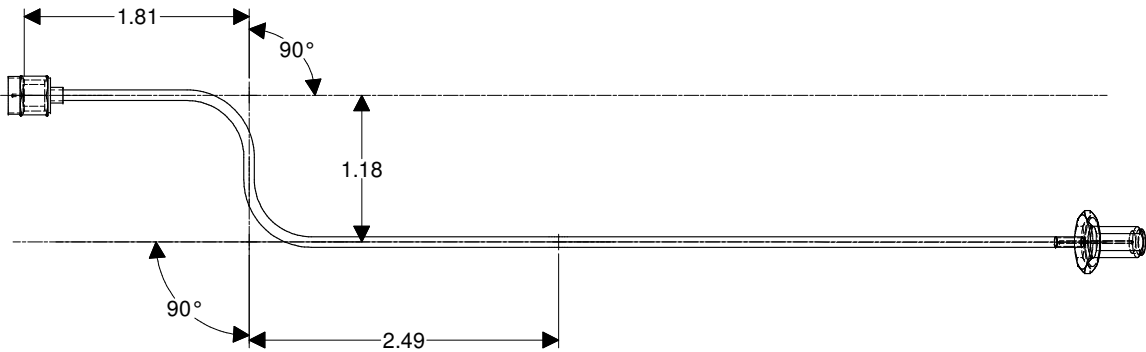


E	7102-065-SRC	REV A
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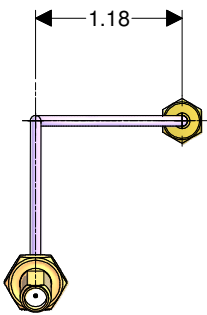
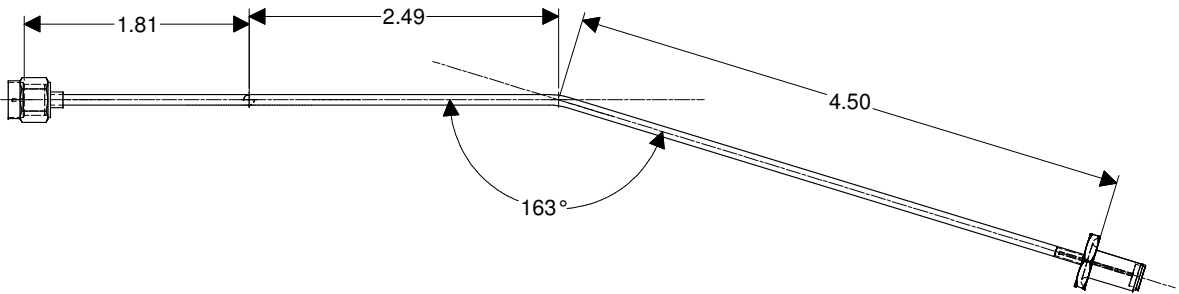
FOR MACHINING LUBRICANT USE ONLY ALKALINE DETERGENT LUBRICANT CIMSTAR 40 OR EQUIVALENT APPROVED BY CORNELL LEPP				PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.	
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION				PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw									
DRAFTING (O'Connell):				UNLESS OTHERWISE SPECIFIED:									
MACHINE SHOP (Kaminski):				DIMENSIONS ARE IN INCHES:									
CHEMISTRY (Conklin):				TOLERANCES (IN):									
ELECTRONICS SHOP (Barley):				.00 ± .010									
FURNACE BRAZING (Sherwood):				.005 ± .004									
BEAM WELDING (Seas):				FRACTIONS ± .004									
WELDING OTHER (Gallagher):				ANGLES ± .01									
UTILITIES INTEGRATION (Gallagher):				ALL SURFACES									
STOCKROOMS (Lockwood):				✓									
7102-065-SRC				CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853									
A				INJECTOR CRYOMODULE SEMI-RIGID SR-ICM-WPM-4M									
CREATED BY: PGQ				DRAWN BY: quigley				DATE: 9/24/2007		SCALE: E		7102-065-SRC	
APPROVED BY: PGQ				DRAWN FOR: PGQ				DATE: 9/24/2007		SCALE: E		7102-065-SRC	
												REV A	



REVISIONS			1
SYM	ZONE	DESCRIPTION	DATE   APP



- Notes:
1. All Semi-Rigid bend radii are 0.5" from center of conductor.
  3. Each cable shall have a part number label at each end.
  4. Bulkhead Nut and lock washer not shown.



E	7102-065-SRC	REV.
	Rev. No. 29	Ch. 31

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

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

PRINT DISTR.	7102-065-SRC
REV.	

ITEM	DWG. NO.	DESCRIPTION

G1	G2	G3	REMARKS	REV.



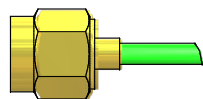
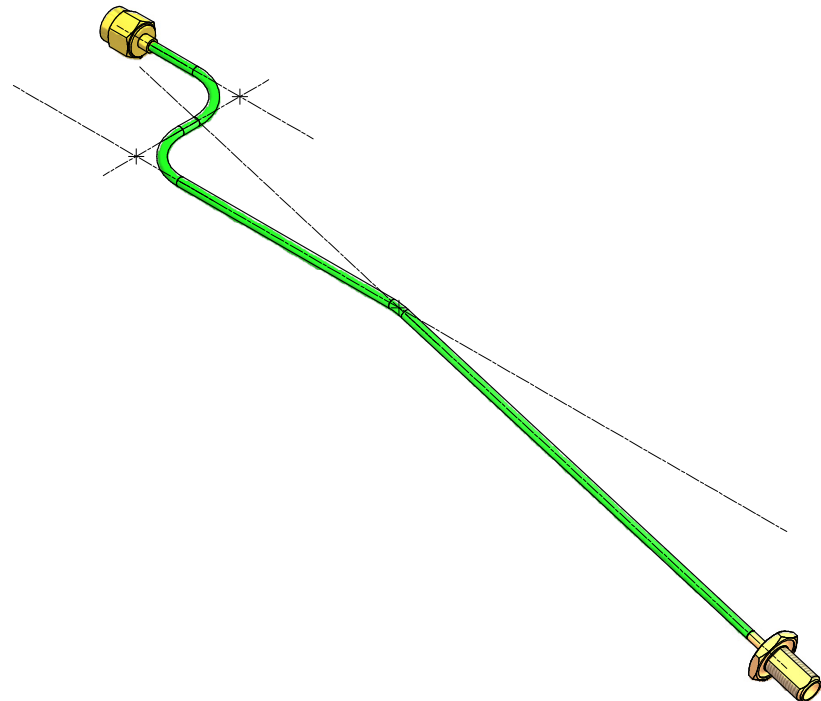
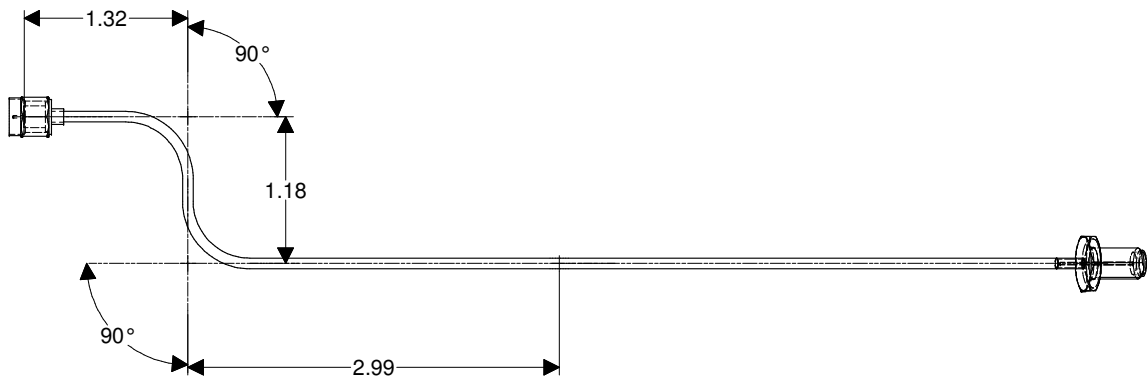
CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-CAV-1BM

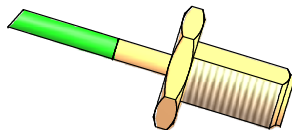
DRAWN BY	DRAWN FOR	DATE	SCALE
quigley	PGQ	9/24/2007	E

E	7102-065-SRC	REV.
	Rev. No. 29	Ch. 31

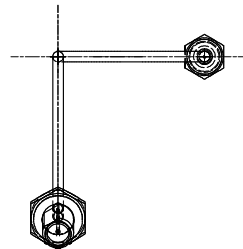
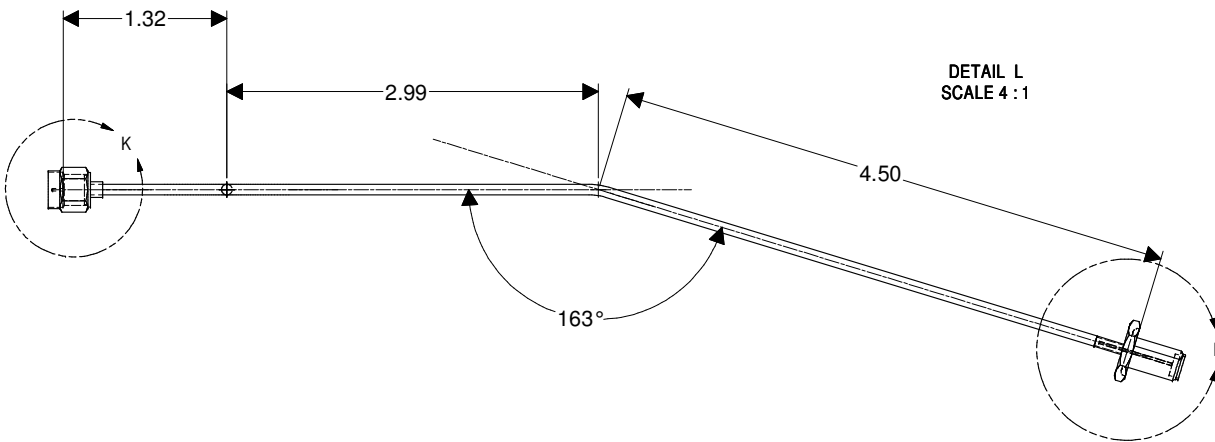
REVISIONS			DATE	APP
SYM	ZONE	DESCRIPTION		



DETAIL K  
SCALE 4 : 1



DETAIL L  
SCALE 4 : 1



Notes:

1. All Semi-Rigid bend radii are 0.5" from center of conductor.
3. Each cable shall have a part number label at each end.
4. Bulkhead Nut and lock washer not shown.

E	7102-065-SRC	REV.
	Rev. No. 30	Rev. 31

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'Connor):		
MACHINE SHOP (Kaminski):		
CHEMISTRY (Conklin):		
ELECTRONICS SHOP (Barley):		
FURNACE BRAZING (Sherwood):		
BEAM WELDING (Seane):		
WELDING OTHER (Gallagher):		
UTILITIES INTEGRATION (Gallagher):		
STOCKROOMS (Lockwood):		

	PRINT	7102-065-SRC	REV.
	DISTR.		
E		S&H NO. 30 OF 31	

PLOT DATE: 1/9/2008  
CAD FILE NAME: 7102-065-SRC.idw

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN INCHES:  
TOLERANCES (IN):  
XXX ± .005  
XXX ± .010  
FRACTIONS ± .104  
ANGLES ± .01  
ALL SURFACES

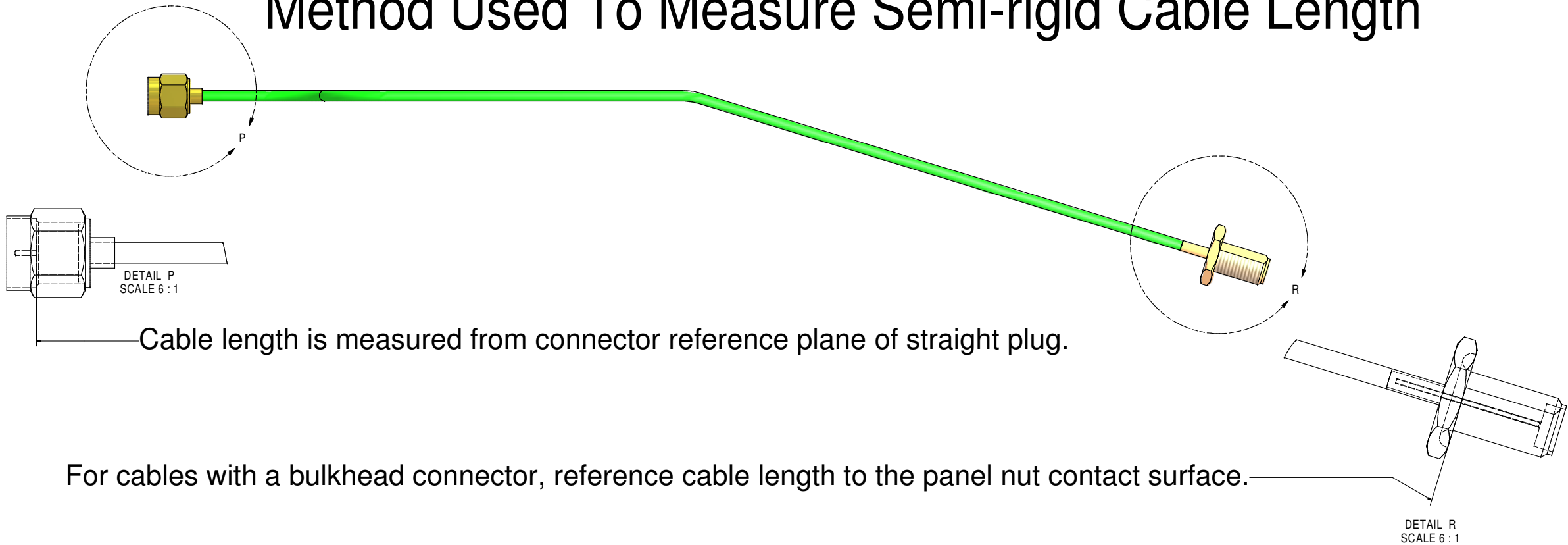


CORNELL UNIVERSITY  
Floyd R. Newman Laboratory  
Ithaca, NY 14853

INJECTOR CRYOMODULE SEMI-RIGID  
SR-ICM-CAV-2BM

CHECKED BY: PGQ	DRAWN BY quigley	DRAWN FOR PGQ	DATE 9/24/2007	SCALE	E	7102-065-SRC SH NO. 30 OF 31	REV.	
APPROVED BY: PGQ								

# Method Used To Measure Semi-rigid Cable Length



Cable length is measured from connector reference plane of straight plug.

For cables with a bulkhead connector, reference cable length to the panel nut contact surface.

Cable length is measured from connector reference plane of straight jack.

Cable length is measured from connector reference plane of straight plug.

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 (Seas)			
WELDING OTHER (Gallagher)			
UTILITIES INTEGRATION (Gallagher)			
STOCKROOMS (Lockwood)			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	PLOT DATE: 1/9/2008 CAD FILE NAME: 7102-065-SRC.idw						
7102-065-SRC sh no. 31 of 31	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES: 0 to 2 1/8 2 1/8 to 3 1/2 FRACTIONS ± 1/64 HOLE ± .015 ALL SURFACES ✓		<div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>Cable Measure Method</div>				
	CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853						
	Cable Measure Method						
	7102-065-SRC						
	Cable Measure Method						
REV.	CHECKED BY: PGQ	DRAWN BY: quigley	DRAWN FOR: PGQ	DATE: 9/24/2007	SCALE: E	7102-065-SRC sh no. 31 of 31	REV.