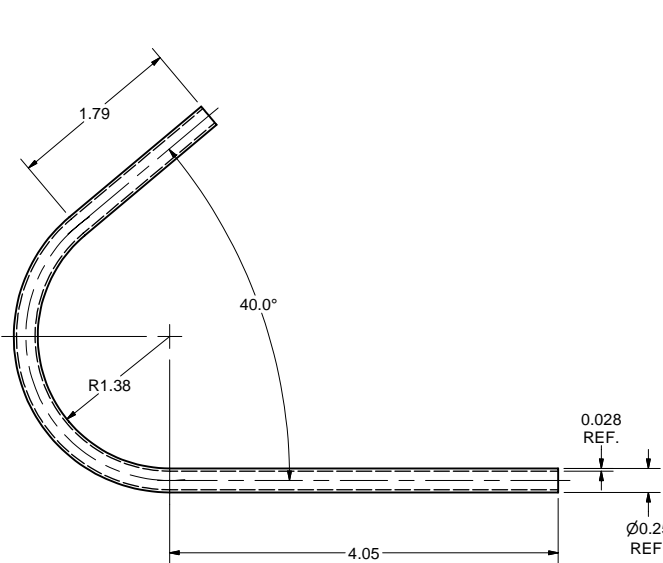
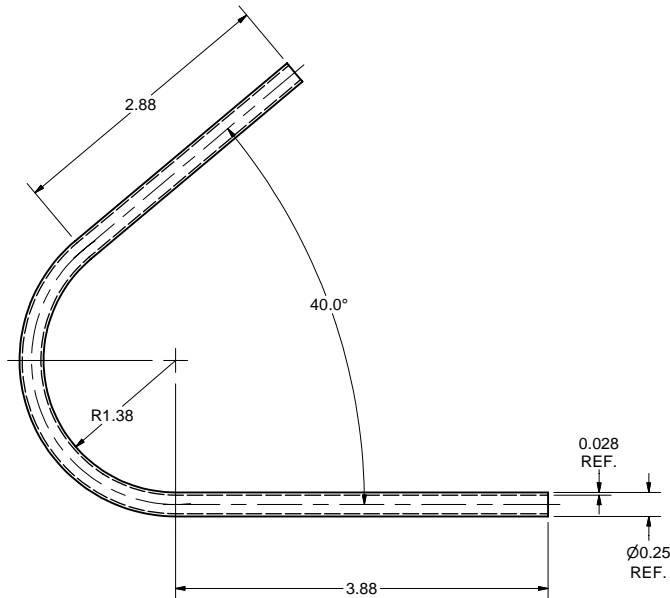


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



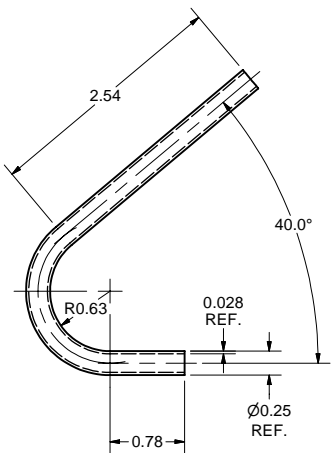
1 HOM-78 5 K COOLING JUMPER RIGHT

FILE NAME: 7110-028
SHEET NO.: 2
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 FOR IT. 1, 1 FOR IT. 17 - 2 TOTAL FOR HTC
NOTES: 1. DEVELOPED LENGTH: L = 9.59 IN.



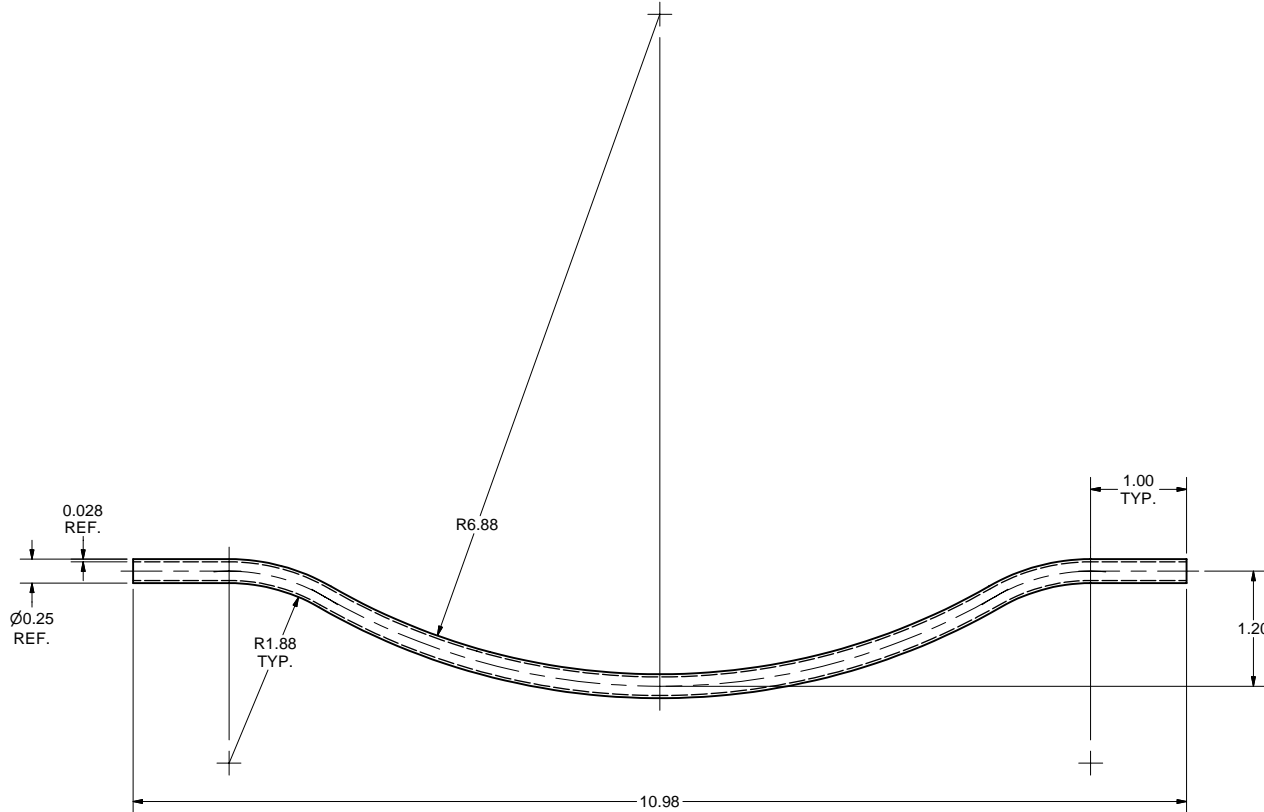
2 HOM-106 5 K COOLING JUMPER RIGHT

FILE NAME: 7110-028
SHEET NO.: 2
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 2 FOR IT. 2, 1 FOR IT. 20, 1 FOR IT. 21 - 4 TOTAL FOR HTC
NOTES: 1. DEVELOPED LENGTH: L = 10.51 IN.



3 INPUT COUPLER 5 K COOLING JUMPER BLANK

FILE NAME: 7110-028
SHEET NO.: 2
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 FOR IT. 18, 1 FOR IT. 19 - 2 TOTAL FOR HTC
NOTES: 1. DEVELOPED LENGTH: L = 5.22 IN.



4 INPUT COUPLER 5 K COOLING BRIDGE

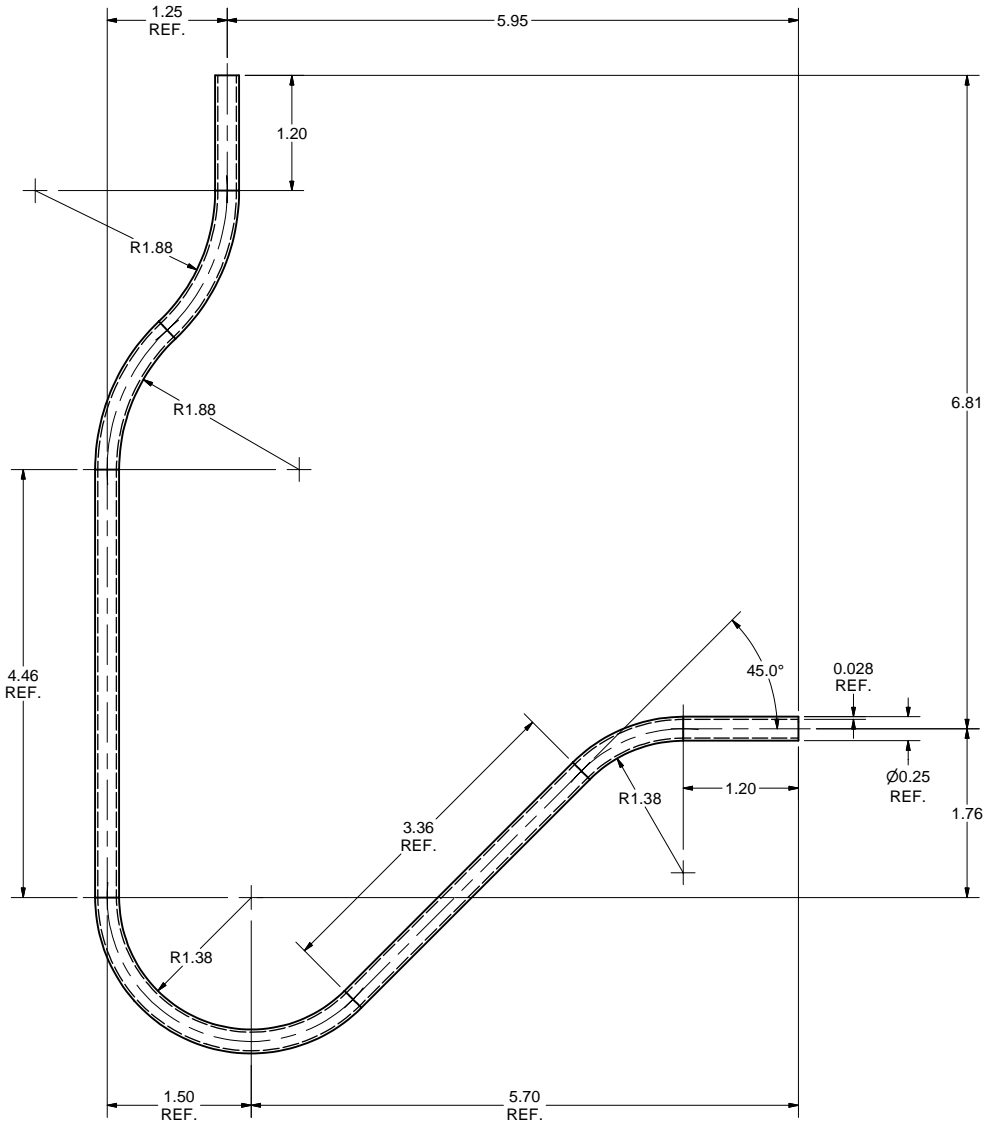
FILE NAME: 7110-028
SHEET NO.: 2
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 11.56 IN.

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

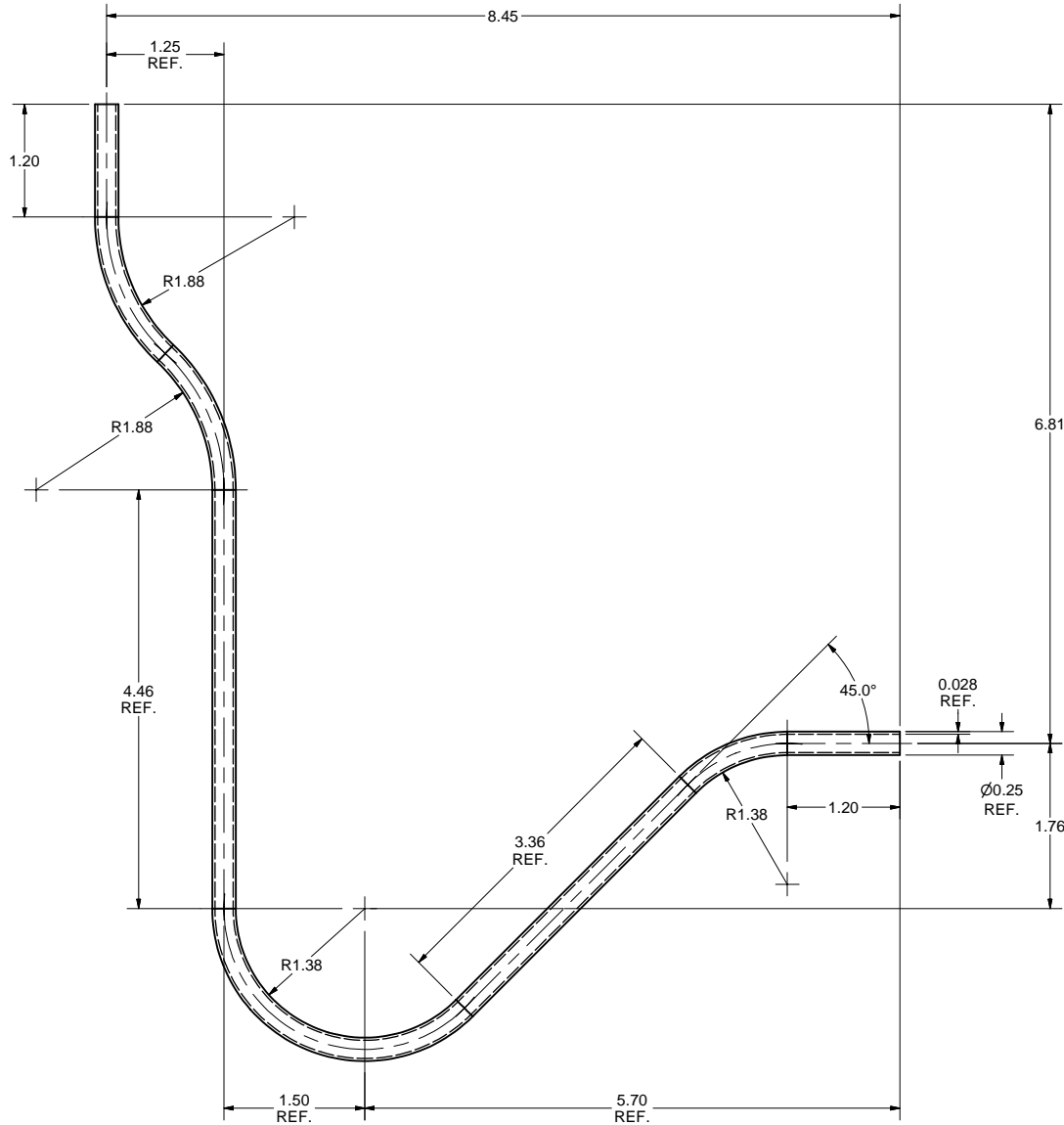
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connel):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):	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

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT DISTR.	7110-028	PLOT DATE: 5/24/2007 CAD FILE NAME: 7110-028.idw	QUANTITY				
CR-1	7110-028	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			HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS	
REV.	3	CHECKED BY: V.M. APPROVED BY: V.M.	DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE D	7110-028 SH. NO. 2 OF 12

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.





5 HOM-78 80 K COOLING JUMPER RIGHT-1
FILE NAME: 7110-028
SHEET NO.: 3
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 18.21 IN.



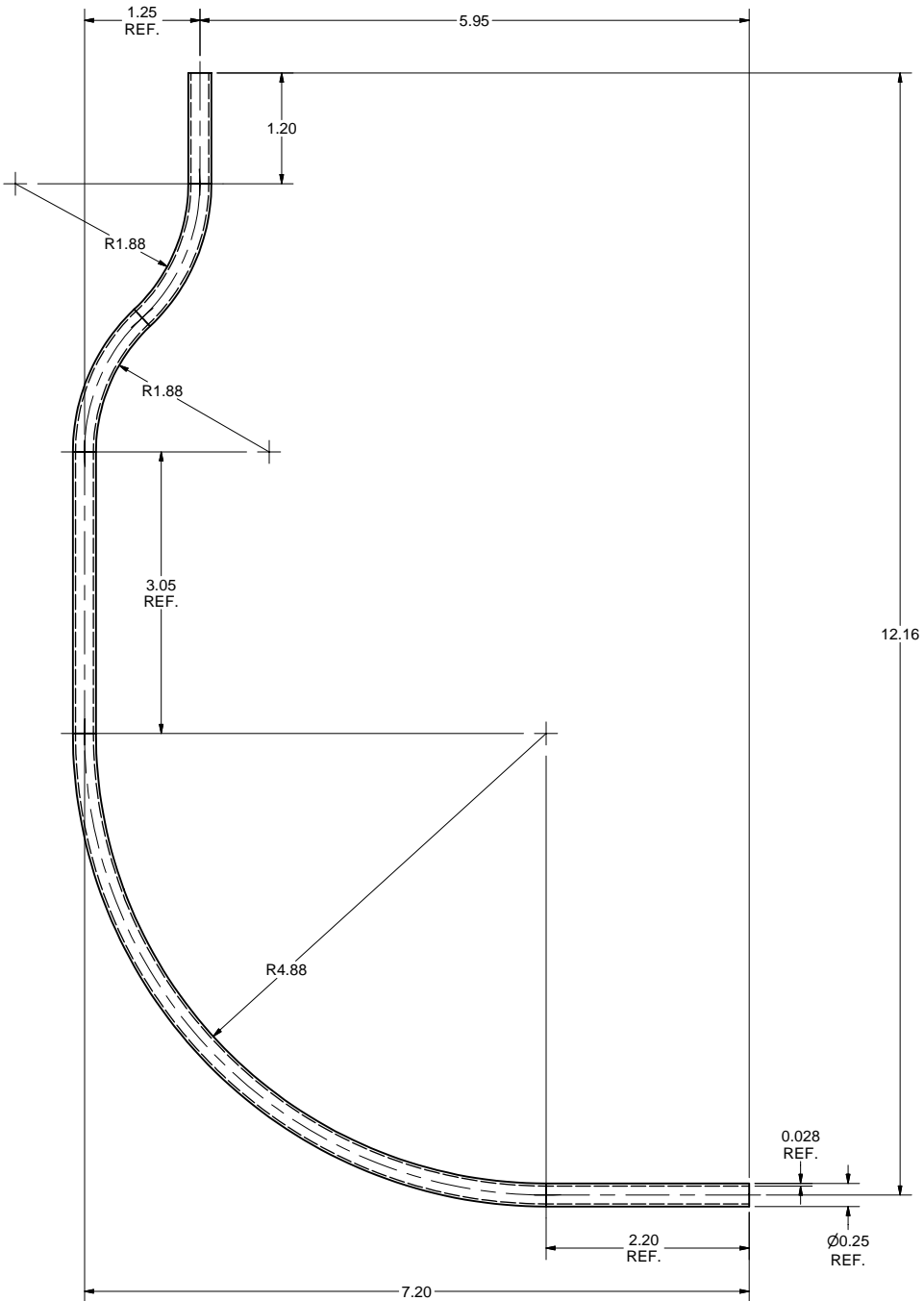
6 HOM-78 80 K COOLING JUMPER RIGHT-2
FILE NAME: 7110-028
SHEET NO.: 3
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 18.21 IN.

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

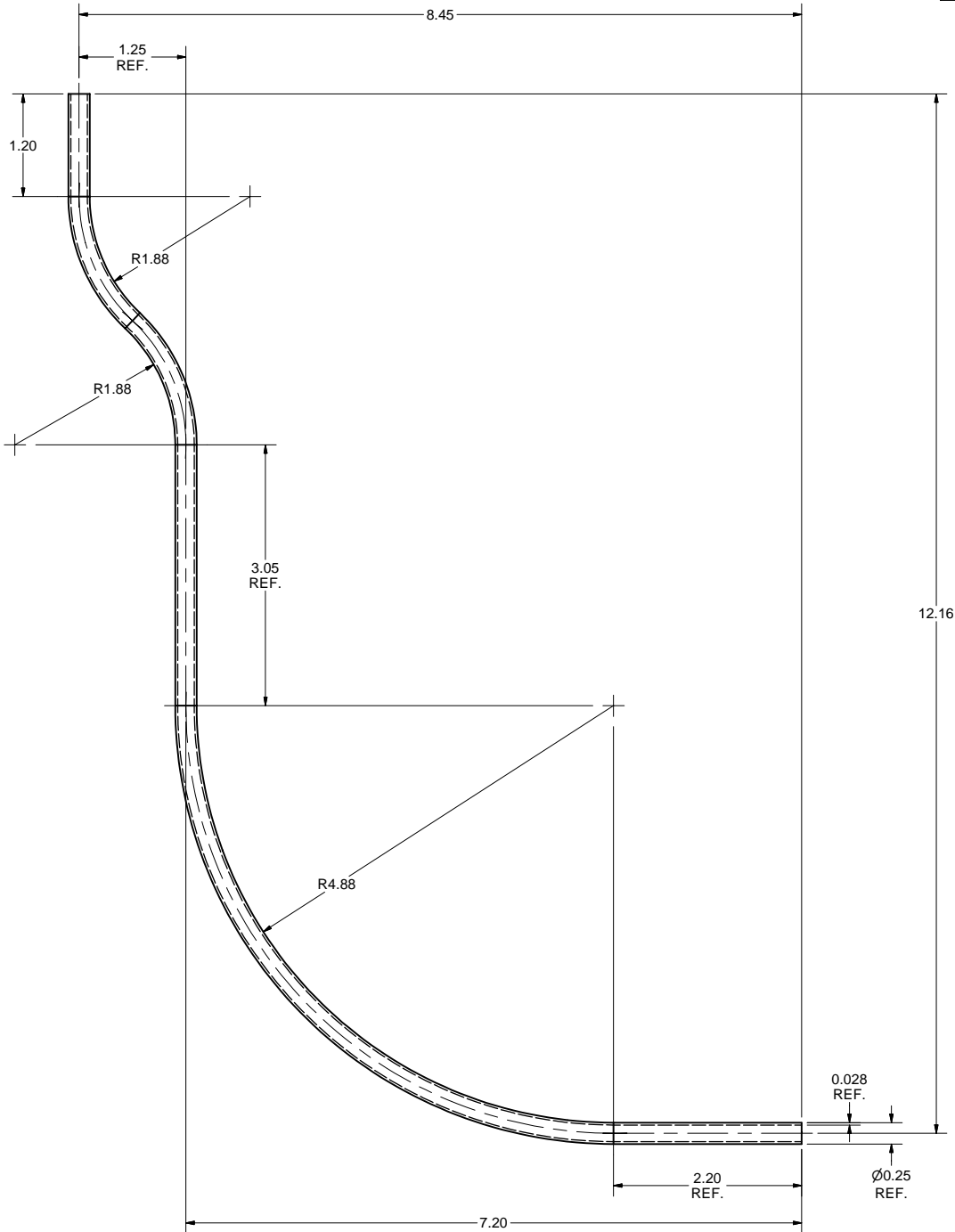
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):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

	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
				QUANTITY				
PRINT DISTR.	PLOT DATE: 5/24/2007 CAD FILE NAME: 7110-028.idw							
7110-028 SH. NO. 3 OF 12	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓	<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>					
			HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS					
REV.	CHECKED BY: V.M.	DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE	D	7110-028	REV.
	APPROVED BY: V.M.	SH. NO. 3 OF 12						

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



7 HOM-78 80 K COOLING JUMPER LEFT-1
FILE NAME: 7110-028
SHEET NO.: 4
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 17.58 IN.



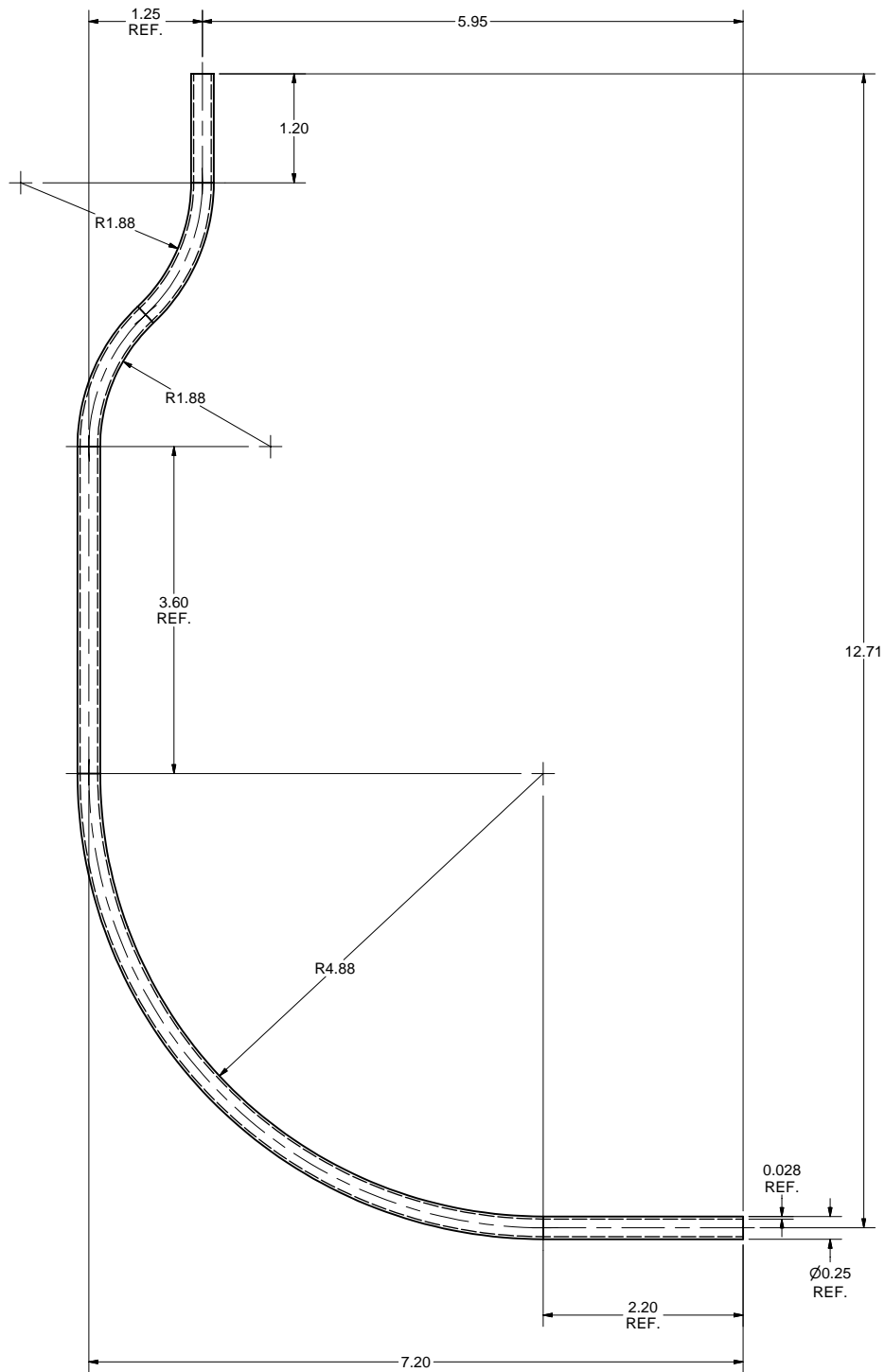
8 HOM-78 80 K COOLING JUMPER LEFT-2
FILE NAME: 7110-028
SHEET NO.: 4
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 17.58 IN.

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

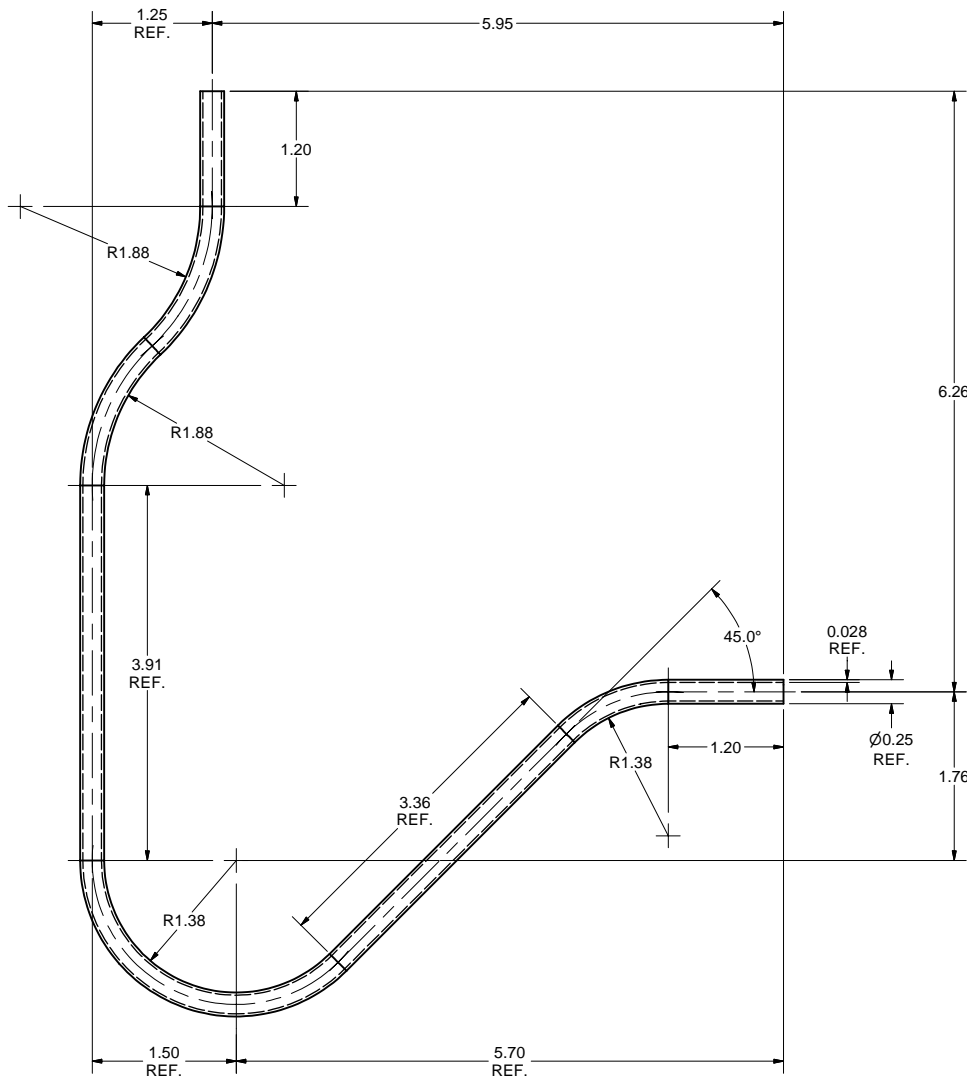
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):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

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT DISTR.		PLOT DATE: 5/24/2007 CAD FILE NAME: 7110-028.idw	QUANTITY				
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			HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS	
CHECKED BY: V.M. APPROVED BY: V.M.	DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE D	7110-028 SH. NO. 4 OF 12	REV.	

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.








9 HOM-106 80 K COOLING JUMPER RIGHT-1
FILE NAME: 7110-028
SHEET NO.: 5
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 18.13 IN.



10 HOM-106 80 K COOLING JUMPER LEFT-1
FILE NAME: 7110-028
SHEET NO.: 5
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 17.66 IN.

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: 5/24/2007 CAD FILE NAME: 7110-028.idw							
	CR-1	<div>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES </div>	<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS</div>						
			CHECKED BY: V.M.	DRAWN BY V.Medjidzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE		7110-028 SH. NO. 5 OF 12
			APPROVED BY: V.M.						

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

F

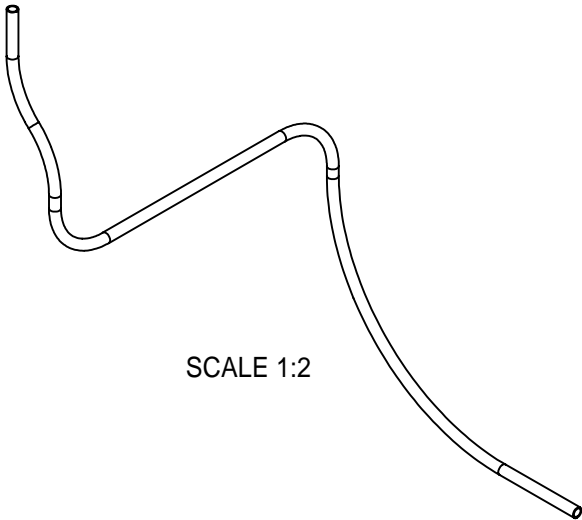
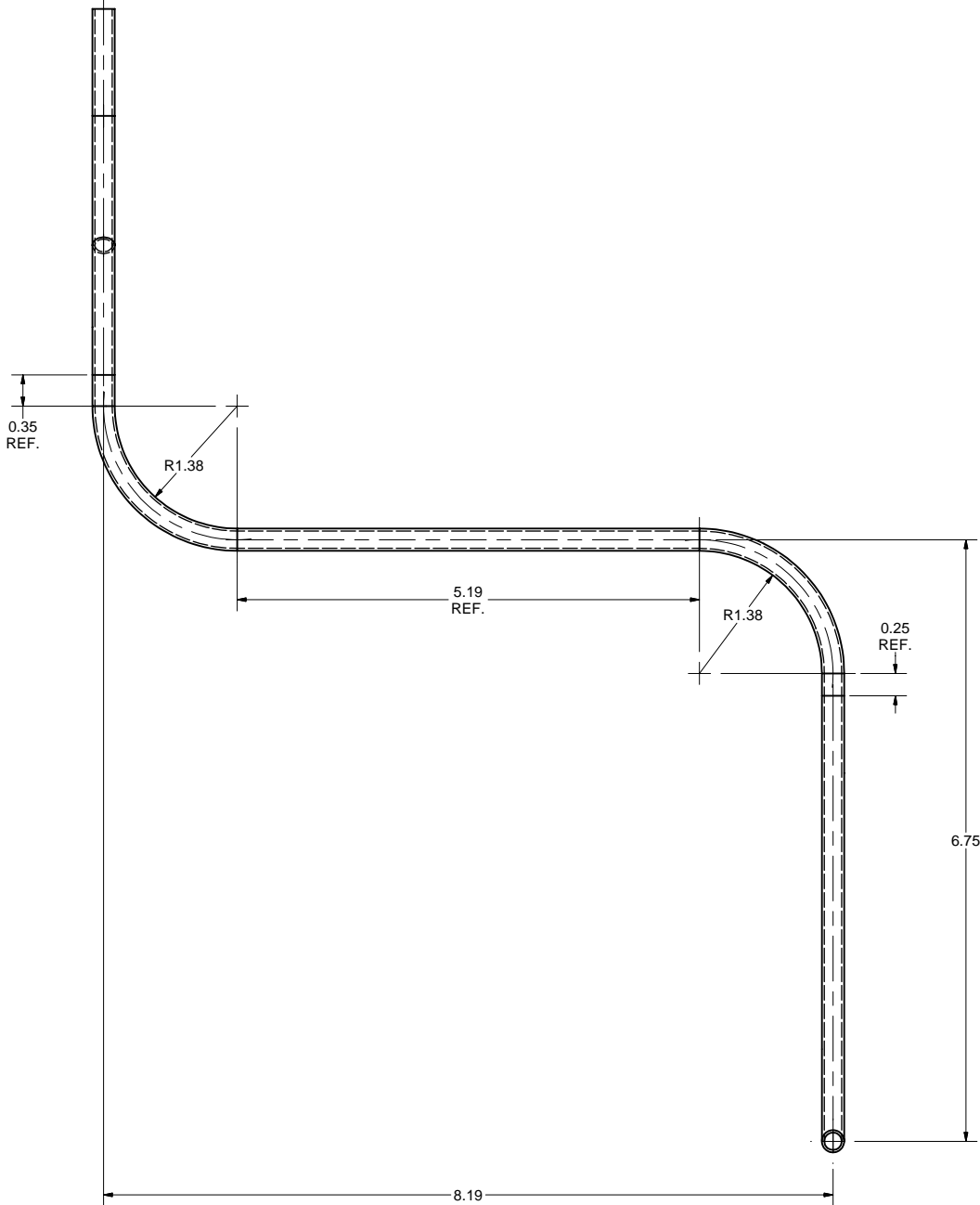
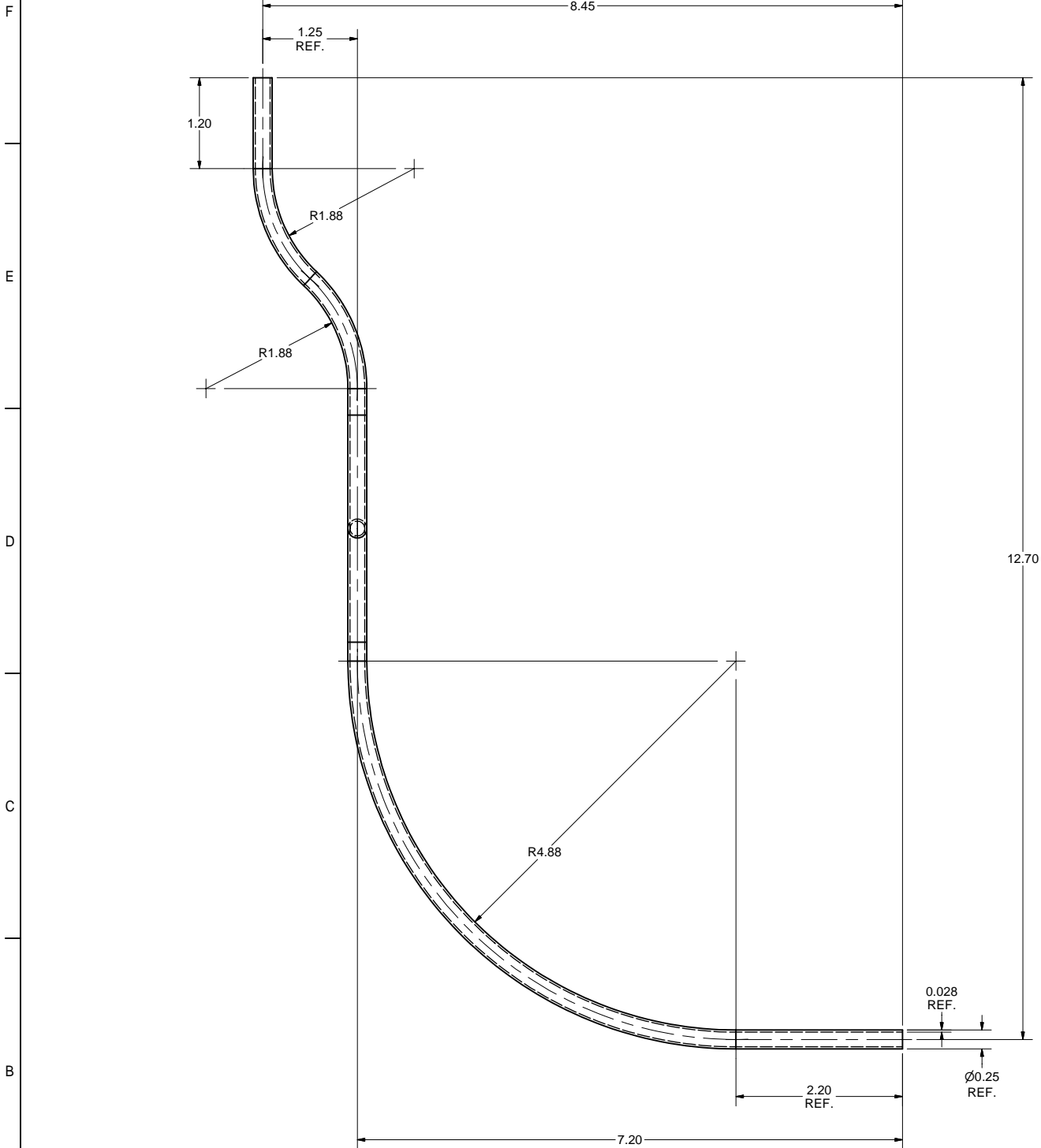
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D

C

B

A






SCALE 1:2

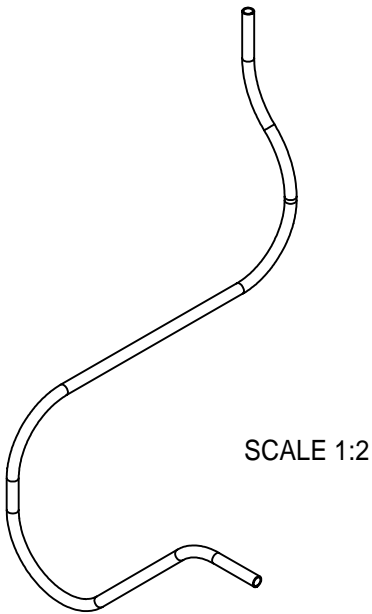
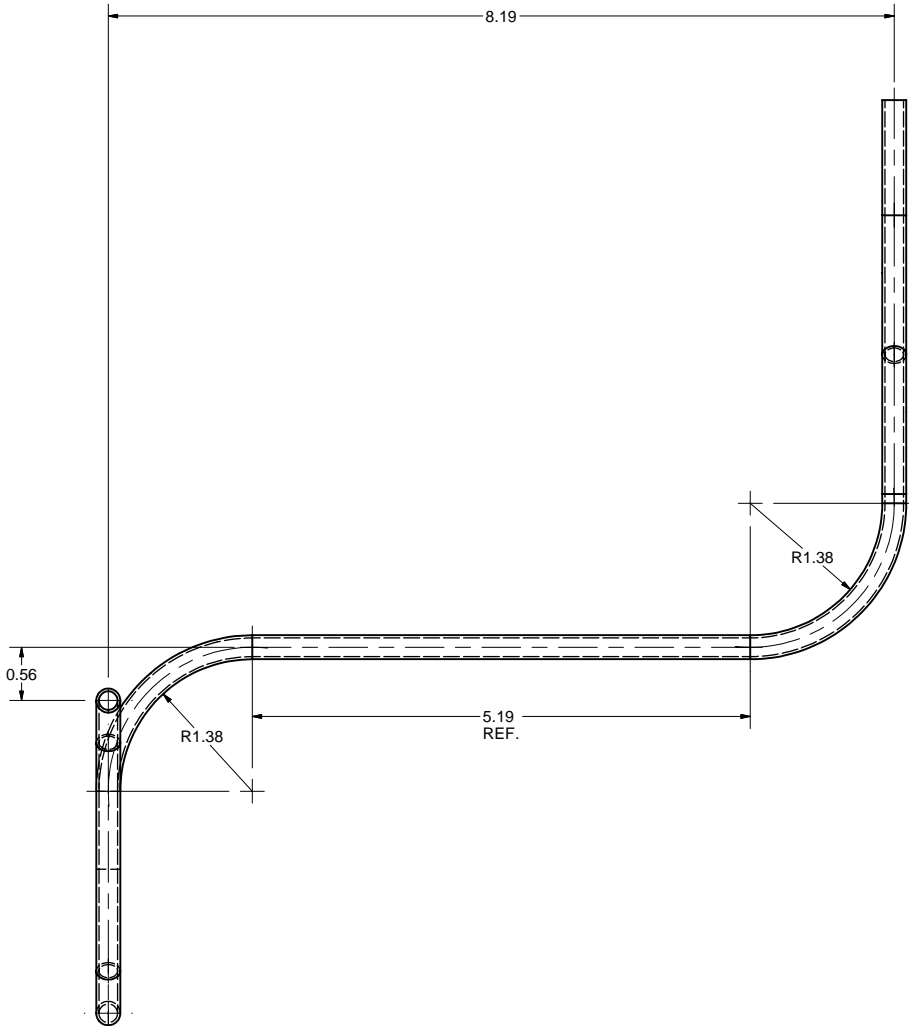
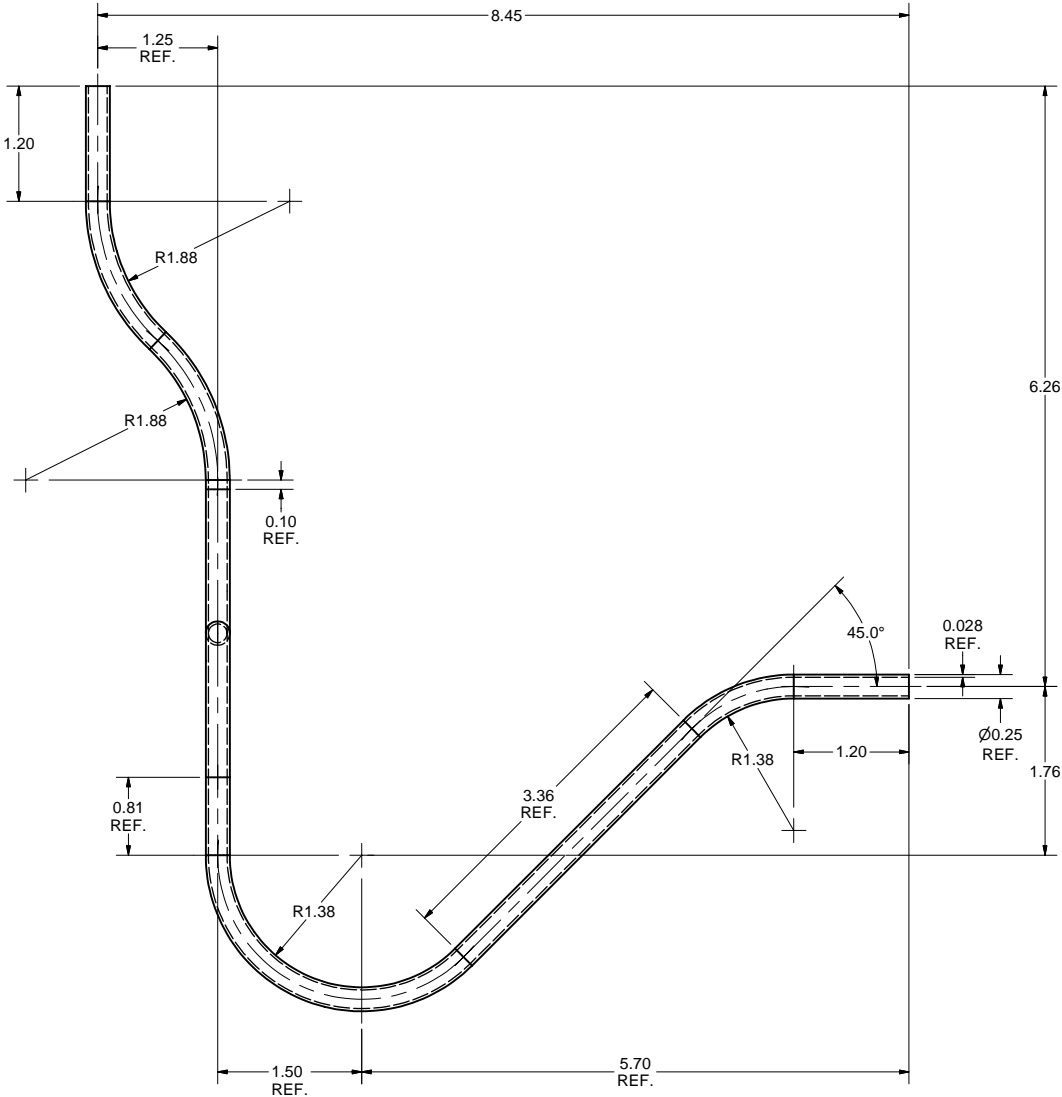
11 HOM-106 80 K COOLING JUMPER RIGHT-2
FILE NAME: 7110-028
SHEET NO.: 6
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 25.04 IN.

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: 5/24/2007 CAD FILE NAME: 7110-028.idw							
7110-028 SH. NO. 6 OF 12	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					
			HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS					
REV.	CHECKED BY: V.M.	DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE	D	7110-028	REV.
	APPROVED BY: V.M.						SH. NO. 6 OF 12	

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.





SCALE 1:2

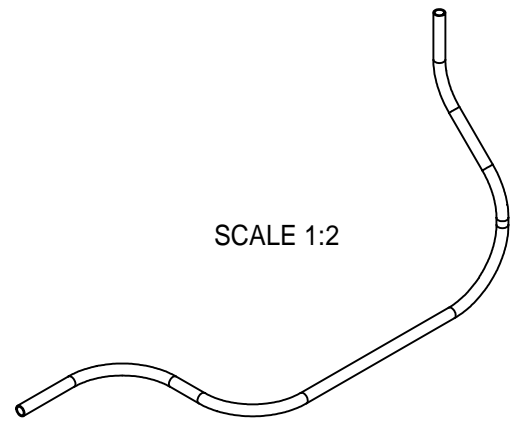
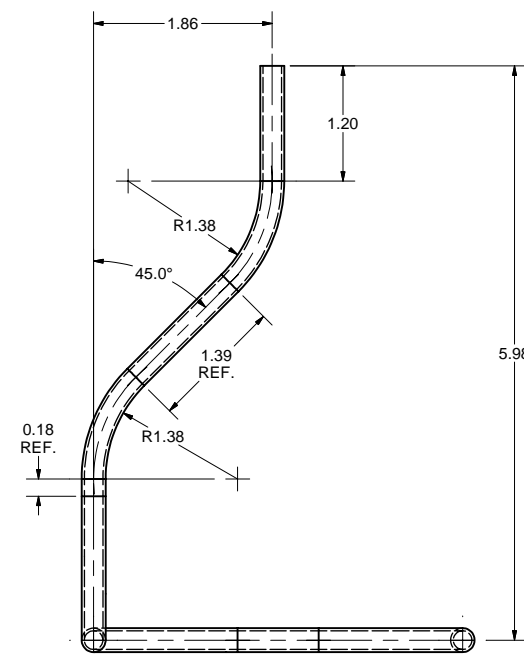
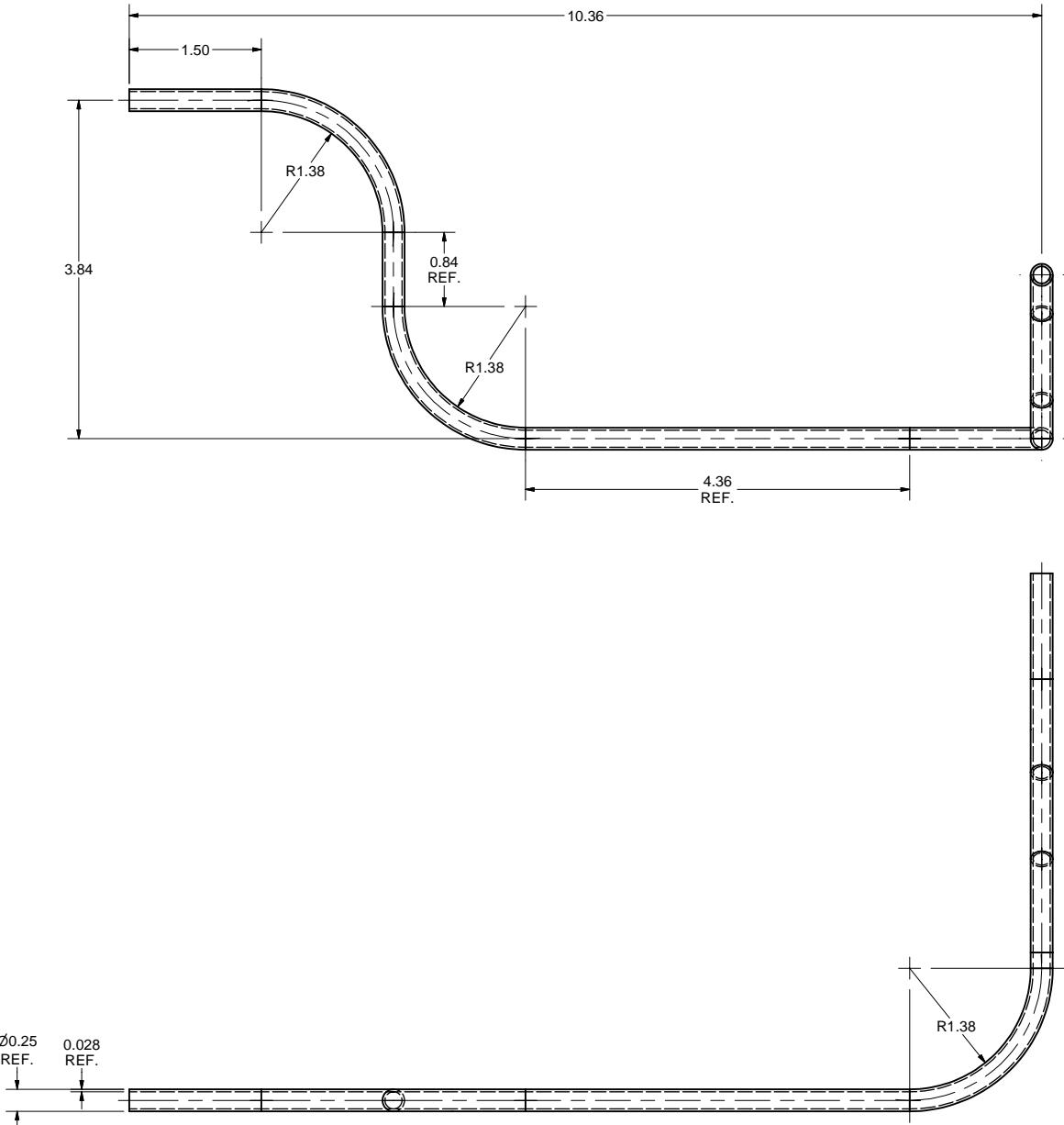
12 HOM-106 80 K COOLING JUMPER LEFT-2
FILE NAME: 7110-028
SHEET NO.: 7
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 24.56 IN.

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: 5/24/2007 CAD FILE NAME: 7110-028.idw							
7110-028 SH. NO. 7 OF 12	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 LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS					
			HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS					
			CHECKED BY: V.M. APPROVED BY: V.M.	DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE	D
REV.								


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.





13 INPUT COUPLER 80 K COOLING JUMPER RIGHT-1

FILE NAME: 7110-028
SHEET NO.: 8
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 18.89 IN.

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								
<div>D</div> <div>SH. NO. 8 OF 12</div>	PRINT DISTR.	PLOT DATE: 5/24/2007 CAD FILE NAME: 7110-028.idw											
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES			<div> LEPP</div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div>								
		HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS											
		CHECKED BY: V.M.			DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE	D	7110-028 SH. NO. 8 OF 12	REV.		
		APPROVED BY: V.M.											

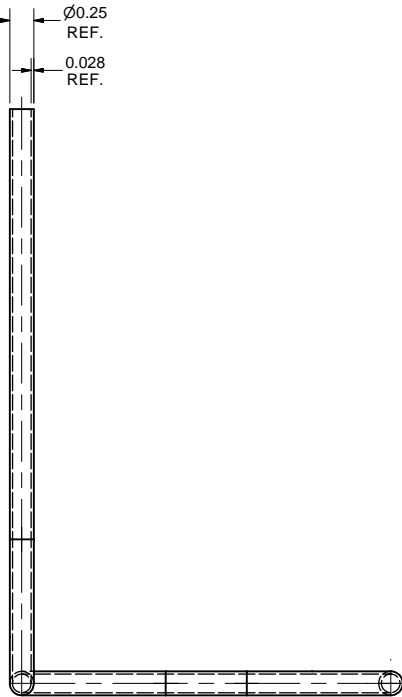
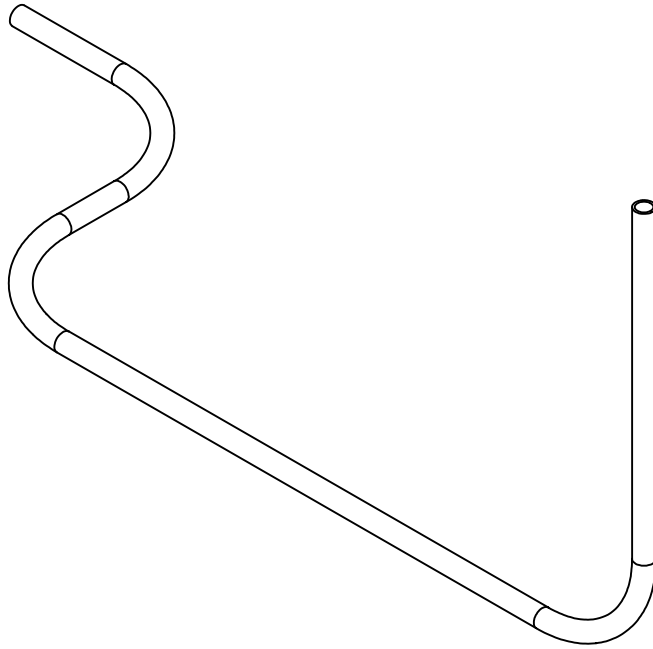
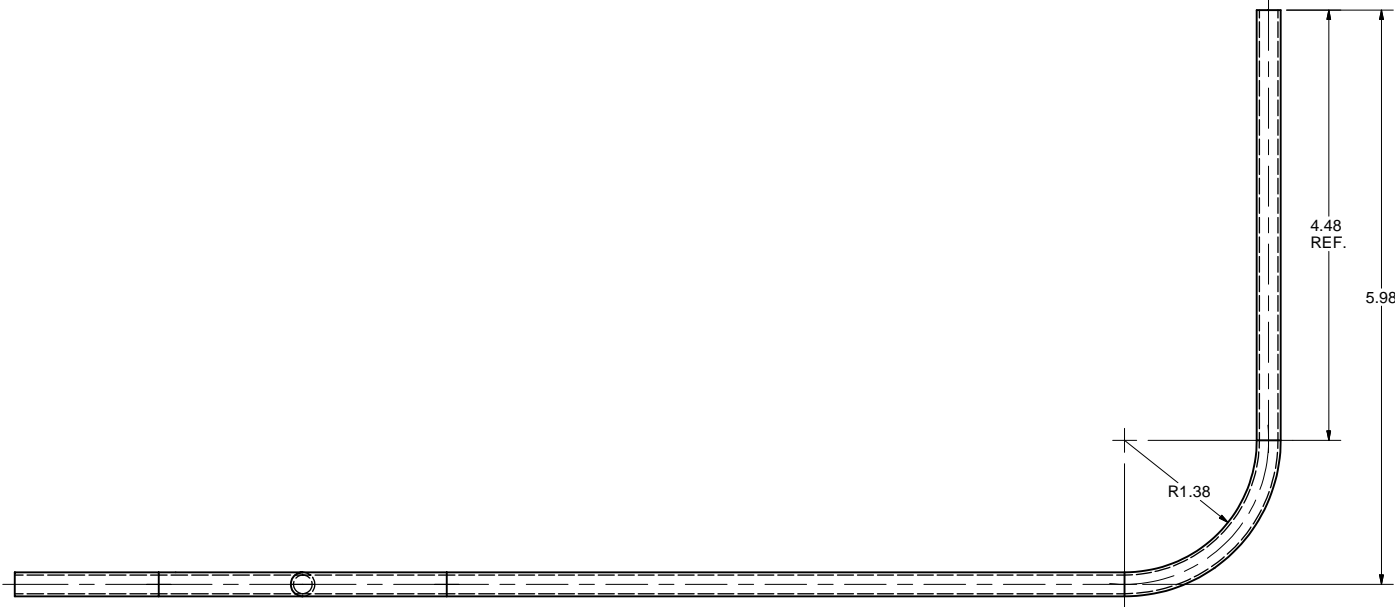
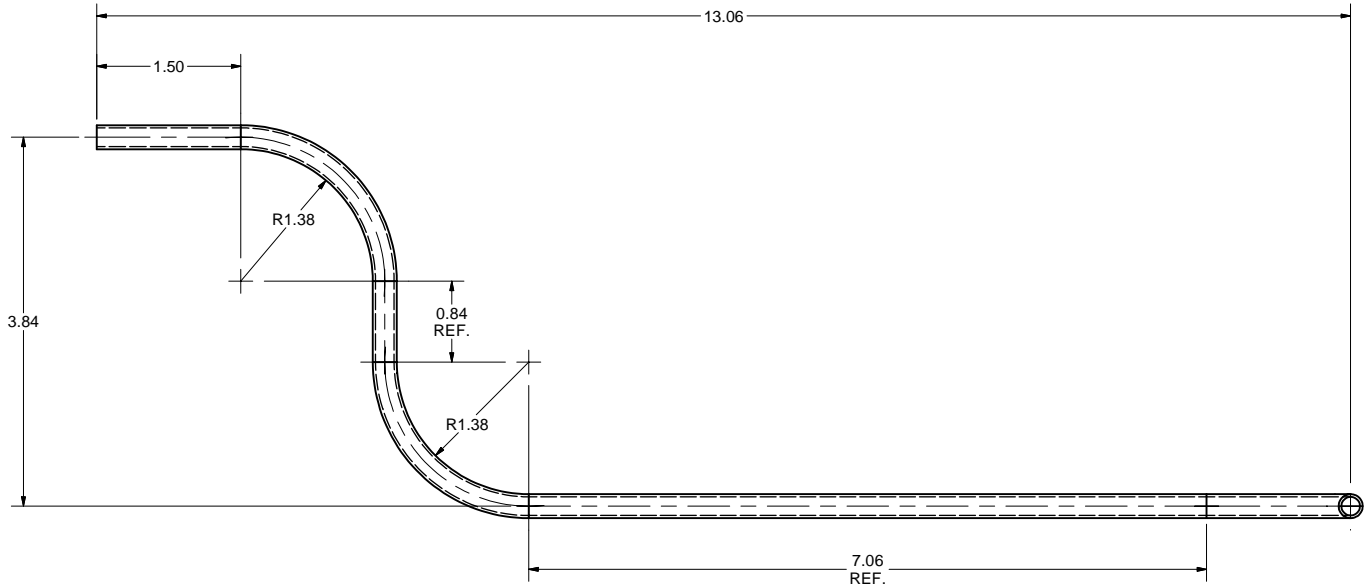
**CORNELL UNIVERSITY**
LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS

**LEPP**
LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS

CORNELL UNIVERSITY
Floyd R. Newman Laboratory
Ithaca, NY 14853

HORIZONTAL TEST CRYOMODULE
JUMPERS FOR 5 K AND 80 K COOLING
COOLING JUMPER DETAILS

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



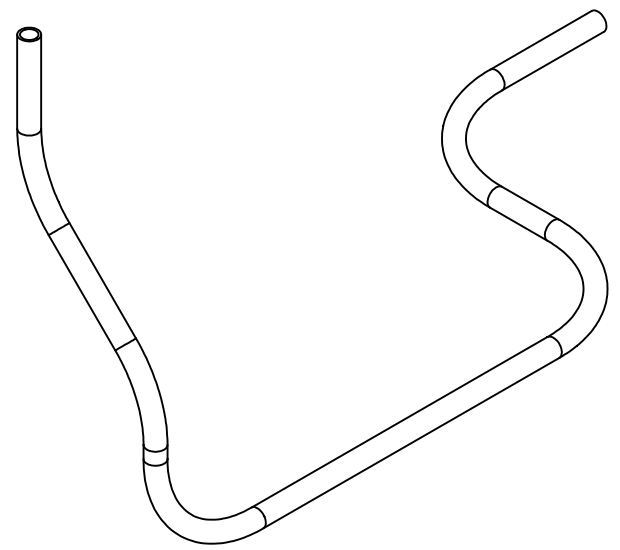
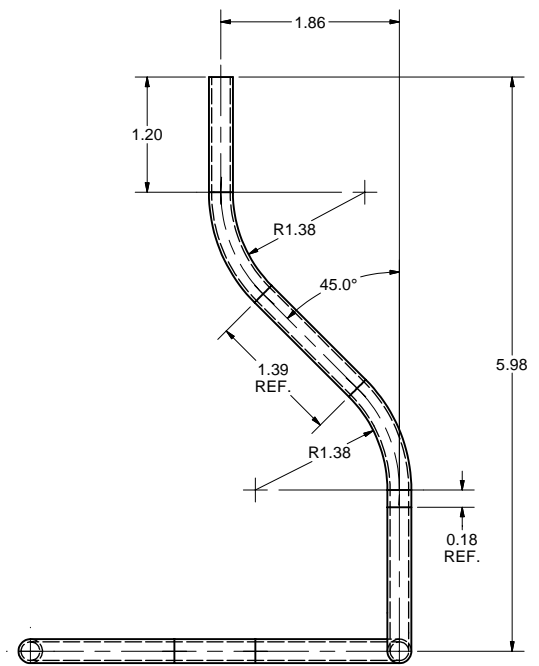
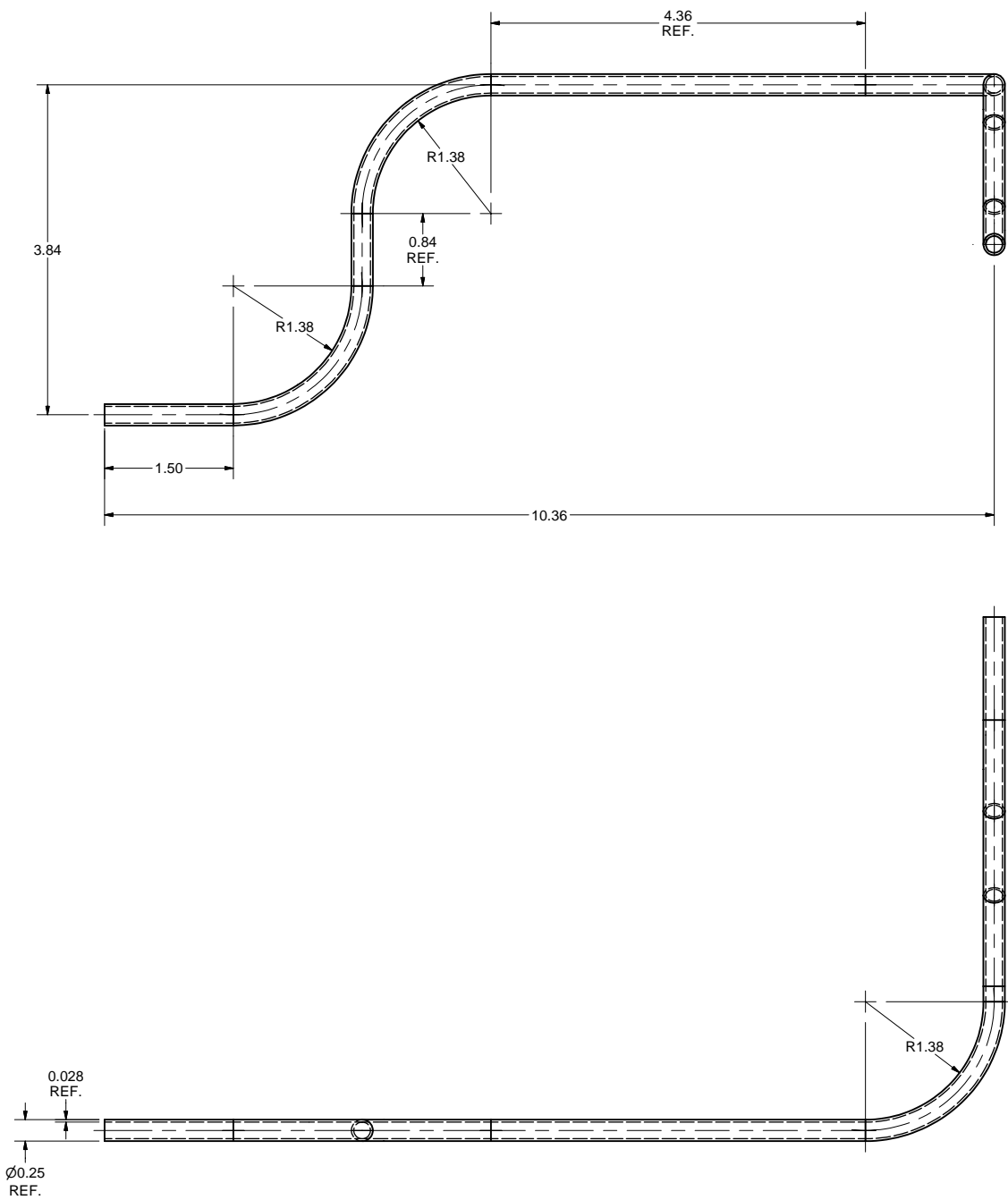
14 INPUT COUPLER 80 K COOLING JUMPER RIGHT-2
FILE NAME: 7110-028
SHEET NO.: 9
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 20.95 IN.

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.	D	PLOT DATE: 5/24/2007 CAD FILE NAME: 7110-028.idw					
REV.	7110-028 SH. NO. 9 OF 12	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		
			HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS				
CHECKED BY: V.M. APPROVED BY: V.M.		DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE D	7110-028 SH. NO. 9 OF 12	REV.

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

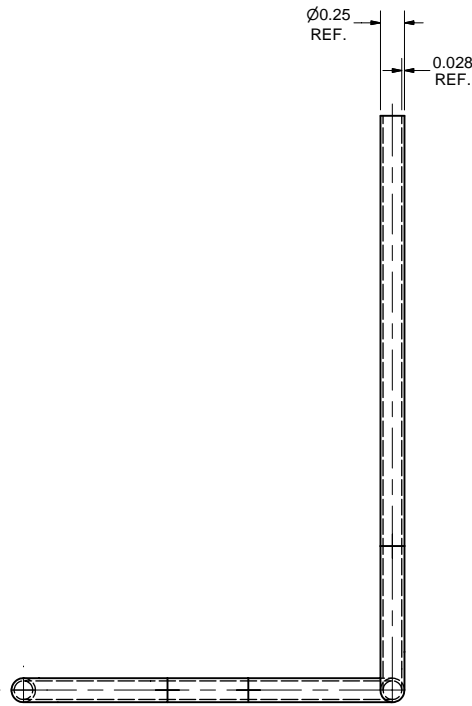
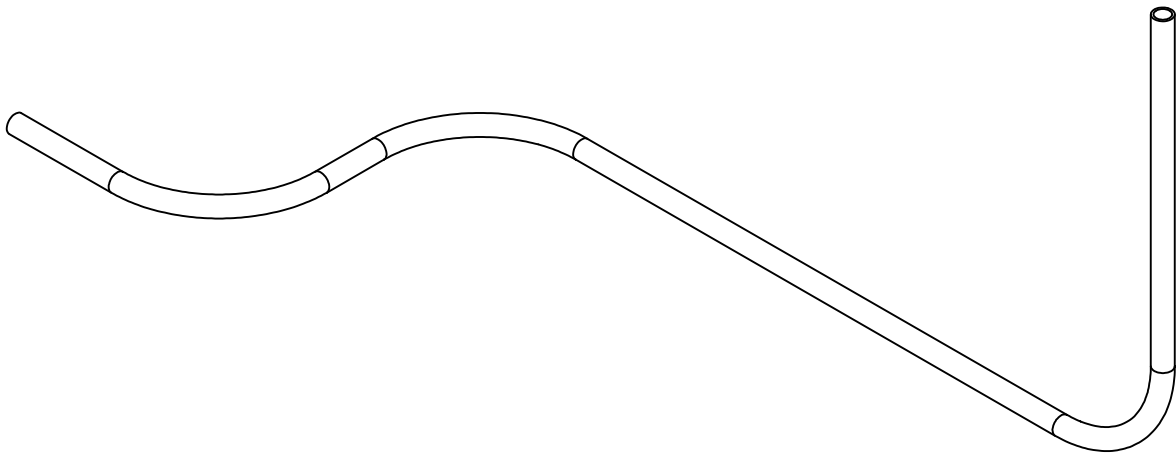
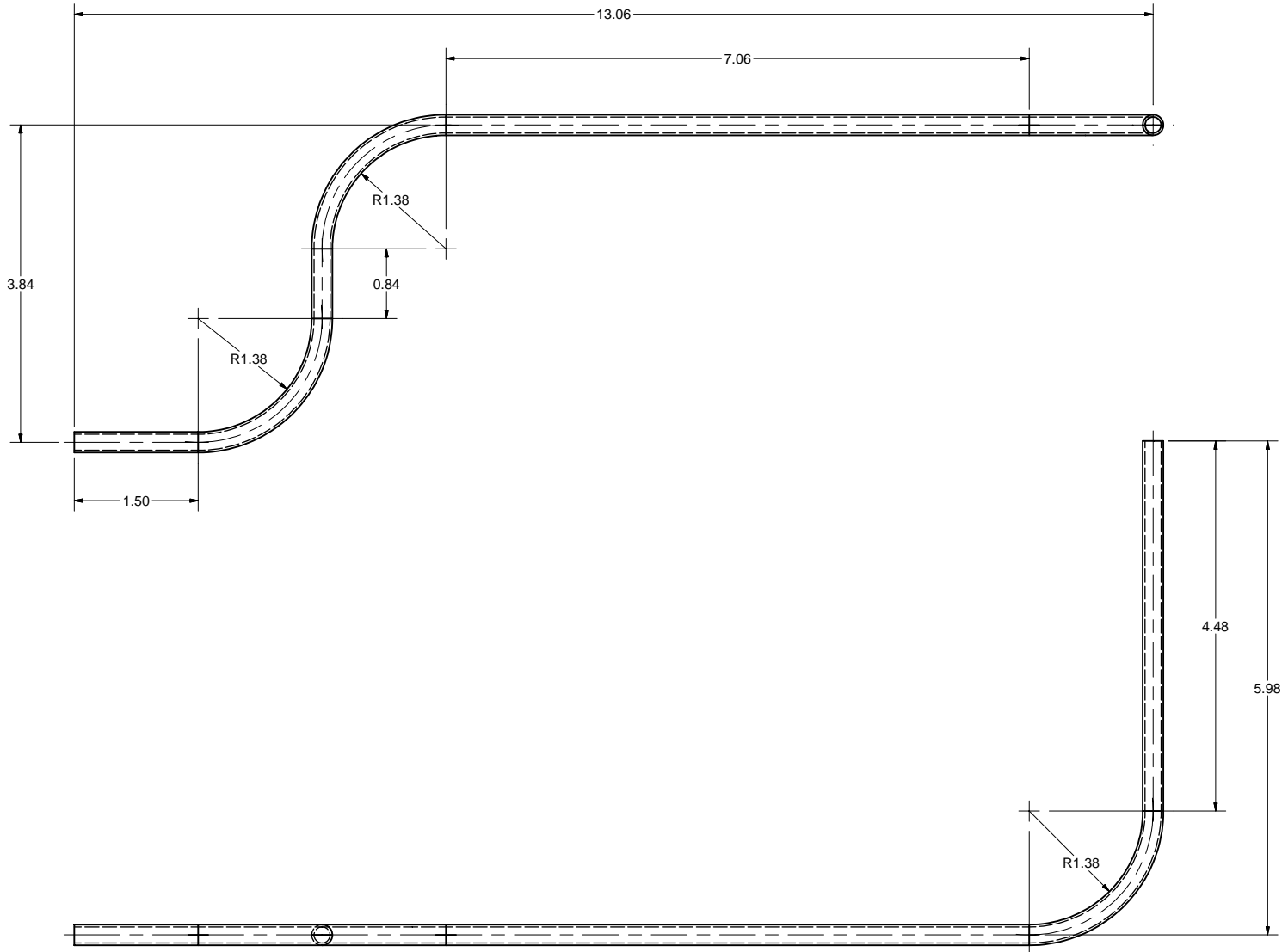


15 INPUT COUPLER 80 K COOLING JUMPER LEFT-1
FILE NAME: 7110-028
SHEET NO.: 10
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 18.89 IN.

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.	D	PLOT DATE: 5/24/2007 CAD FILE NAME: 7110-028.idw					
REV.	7110-028 SH. NO. 10 OF 12	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		
			HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS				
CHECKED BY: V.M. APPROVED BY: V.M.		DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE D	7110-028 SH. NO. 10 OF 12	REV.




REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



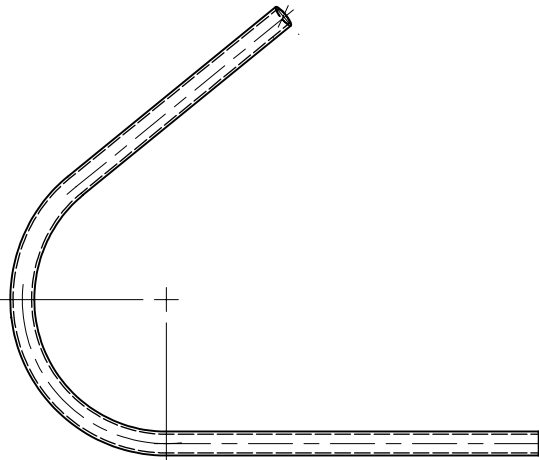
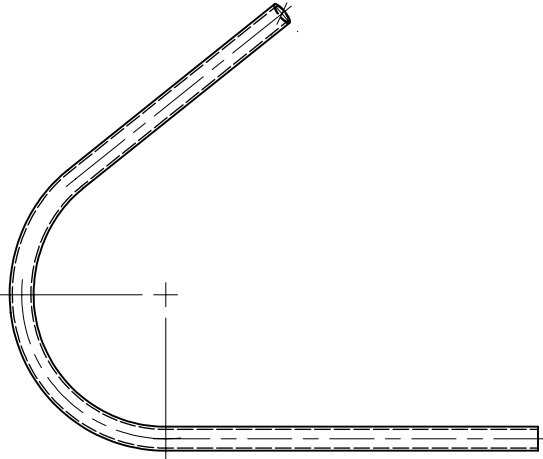
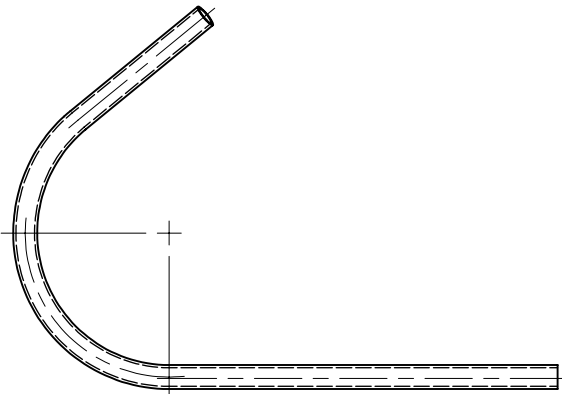
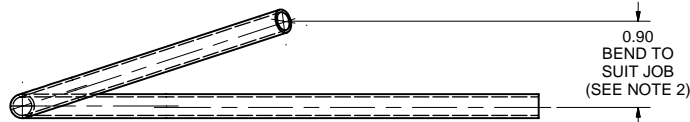
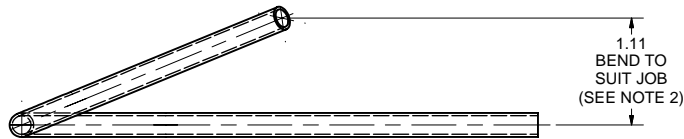
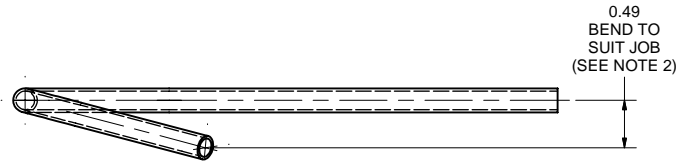
16 INPUT COUPLER 80 K COOLING JUMPER LEFT-2
FILE NAME: 7110-028
SHEET NO.: 11
DFT. SCALE: 1:1
MATERIAL: 1/4"OD x 0.028"W 316 ST. STEEL TUBE
QTY: 1 PER HTC
NOTES: 1. DEVELOPED LENGTH: L = 20.95 IN.

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: 5/24/2007 CAD FILE NAME: 7110-028.idw							
7110-028 SH. NO. 11 OF 12	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					
			HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS					
			CHECKED BY: V.M.	DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE	D
APPROVED BY: V.M.								

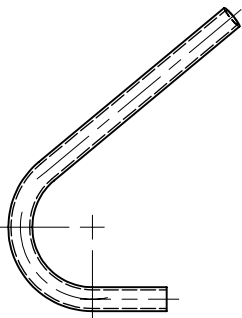
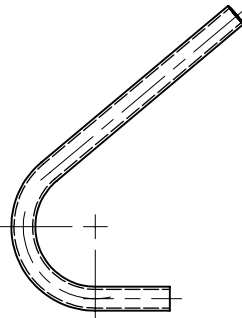
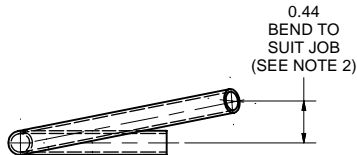
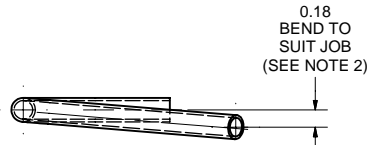
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



17 HOM-78 5 K COOLING JUMPER LEFT
FILE NAME: 7110-028
SHEET NO.: 12
DFT. SCALE: 1:1
MATERIAL: SEE NOTE 1
QTY: 1 PER HTC
NOTES: 1. MAKE FROM ITEM 1: 1/4"OD x 0.028"W 316L ST. STEEL TUBE.
2. FOR OTHER DIMENSIONS SEE ITEM 1.

20 HOM-106 5 K COOLING JUMPER LEFT-1
FILE NAME: 7110-028
SHEET NO.: 12
DFT. SCALE: 1:1
MATERIAL: SEE NOTE 1
QTY: 1 PER HTC
NOTES: 1. MAKE FROM ITEM 2: 1/4"OD x 0.028"W 316L ST. STEEL TUBE.
2. FOR OTHER DIMENSIONS SEE ITEM 2.

21 HOM-106 5 K COOLING JUMPER LEFT-2
FILE NAME: 7110-028
SHEET NO.: 12
DFT. SCALE: 1:1
MATERIAL: SEE NOTE 1
QTY: 1 PER HTC
NOTES: 1. MAKE FROM ITEM 2: 1/4"OD x 0.028"W 316L ST. STEEL TUBE.
2. FOR OTHER DIMENSIONS SEE ITEM 2.




18 INPUT COUPLER 5 K COOLING JUMPER RIGHT
FILE NAME: 7110-028
SHEET NO.: 12
DFT. SCALE: 1:1
MATERIAL: SEE NOTE 1
QTY: 1 PER HTC
NOTES: 1. MAKE FROM ITEM 3: 1/4"OD x 0.028"W 316L ST. STEEL TUBE.
2. FOR OTHER DIMENSIONS SEE ITEM 3.

19 INPUT COUPLER 5 K COOLING JUMPER LEFT
FILE NAME: 7110-028
SHEET NO.: 12
DFT. SCALE: 1:1
MATERIAL: SEE NOTE 1
QTY: 1 PER HTC
NOTES: 1. MAKE FROM ITEM 3: 1/4"OD x 0.028"W 316L ST. STEEL TUBE.
2. FOR OTHER DIMENSIONS SEE ITEM 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				
D	PRINT DISTR.	PLOT DATE: 5/24/2007 CAD FILE NAME: 7110-028.idw										
7110-028 SH. NO. 12 OF 12	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES		<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>HORIZONTAL TEST CRYOMODULE JUMPERS FOR 5 K AND 80 K COOLING COOLING JUMPER DETAILS</div>								
		CHECKED BY: V.M.		DRAWN BY V.Medjdzade	DRAWN FOR M.Liepe	DATE 5/16/2007	SCALE	D	7110-028		REV.	
		APPROVED BY: V.M.		SH. NO. 12 OF 12								