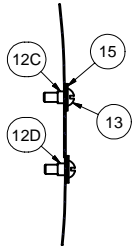
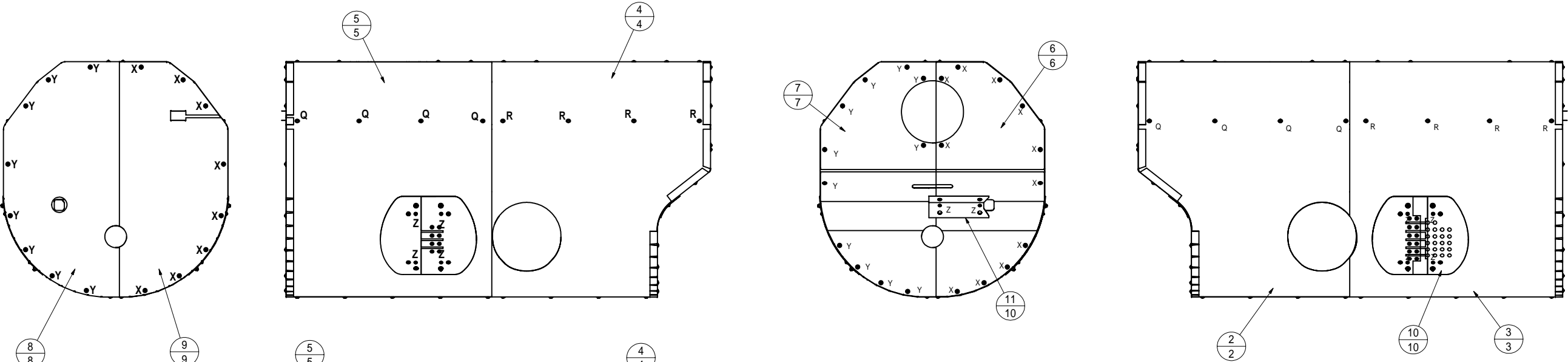
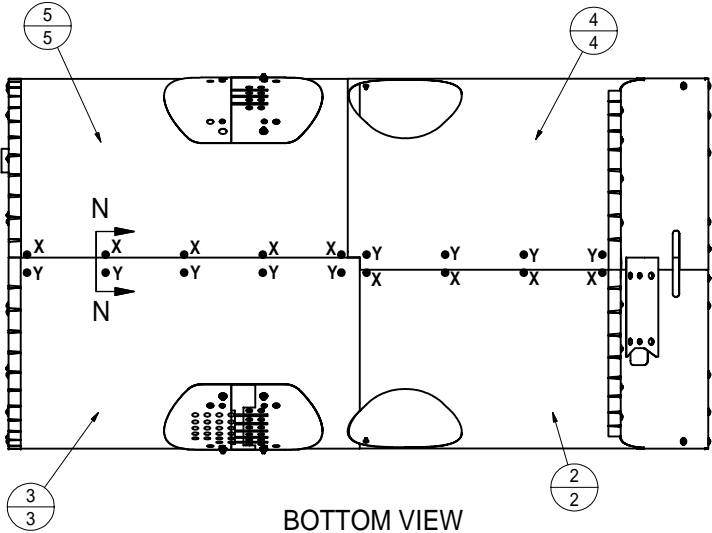


REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		BALLOON CALLOUTS FOR ITEMS 7, 8, 9, 10, & 11: REVISED TO SHOW CORRECT SHEET NUMBER. D.M.E.	2-16-07	TIO



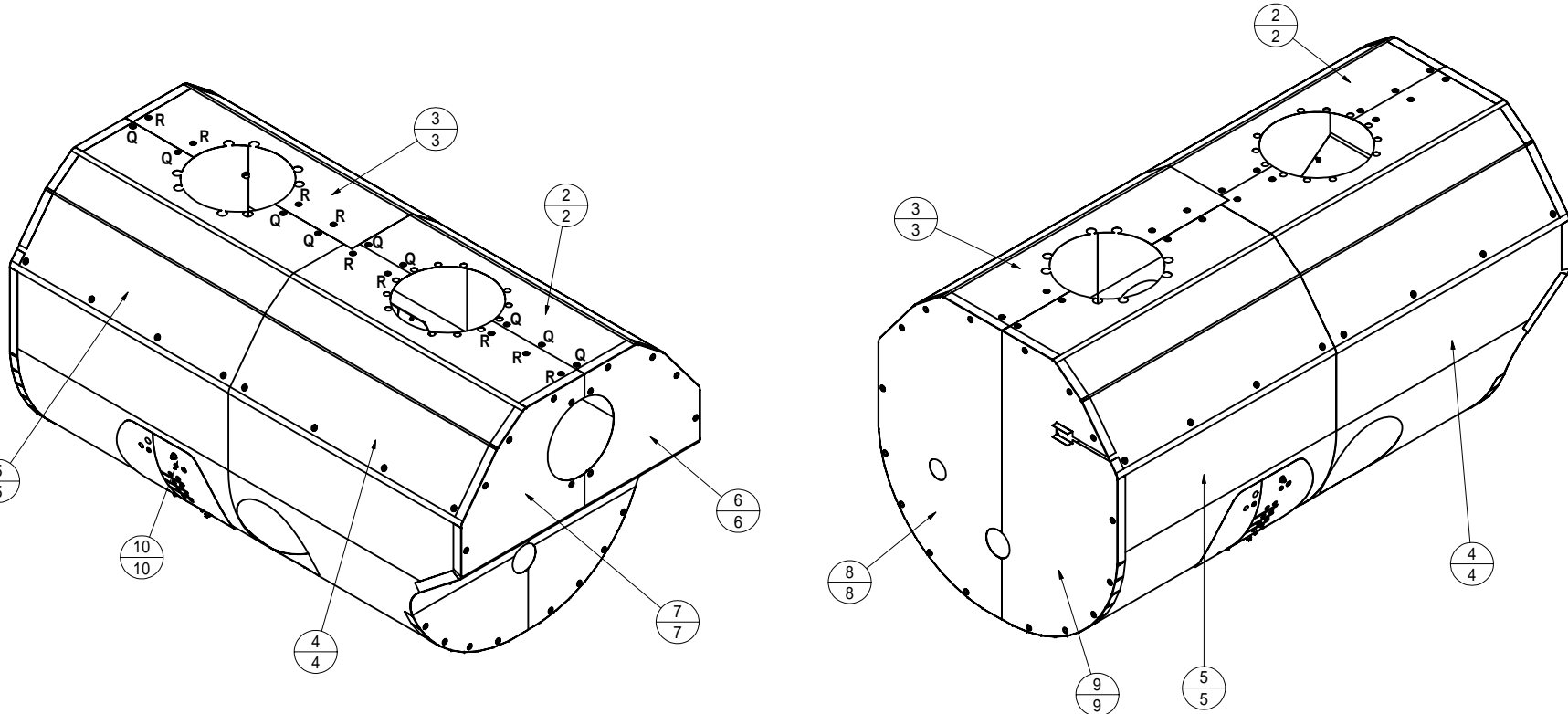
SECTION N-N
SCALE 1:2
TYPICAL



BOTTOM VIEW

1 MAGNETIC SHIELD III ASSEMBLY
FILE NAME: 7110-023
SHEET NO.: 1
DFT. SCALE: 1:8
MATERIAL: NOTED
QTY: 1
NOTES: USE FASTENERS 13 THRU 18 TO
FIX SHIELD ON 80 K SHIELD 7110-002.

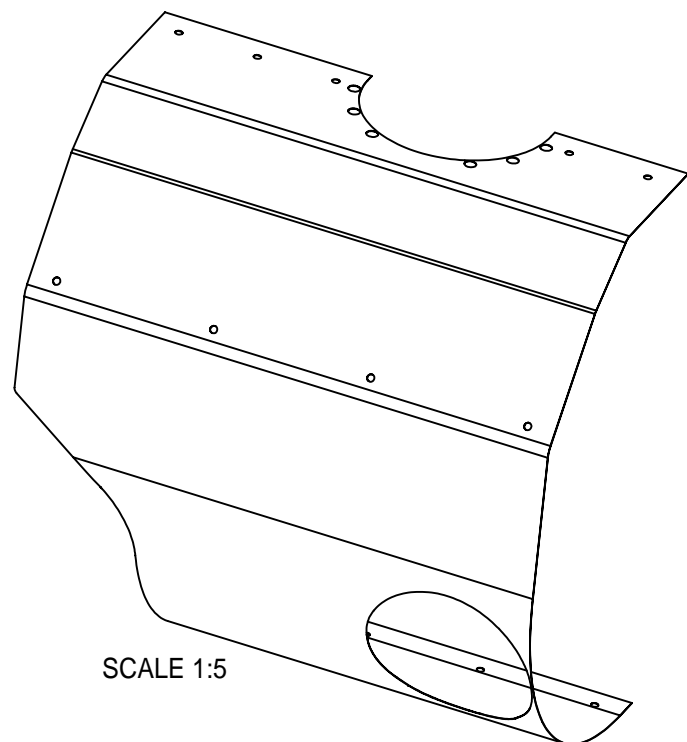
Hole Location	Uses Item No.
Q	12A, 14, 15
R	12B, 14, 15
X	12C, 13, 15
Y	12D, 13, 15
Z	18, 16, 17



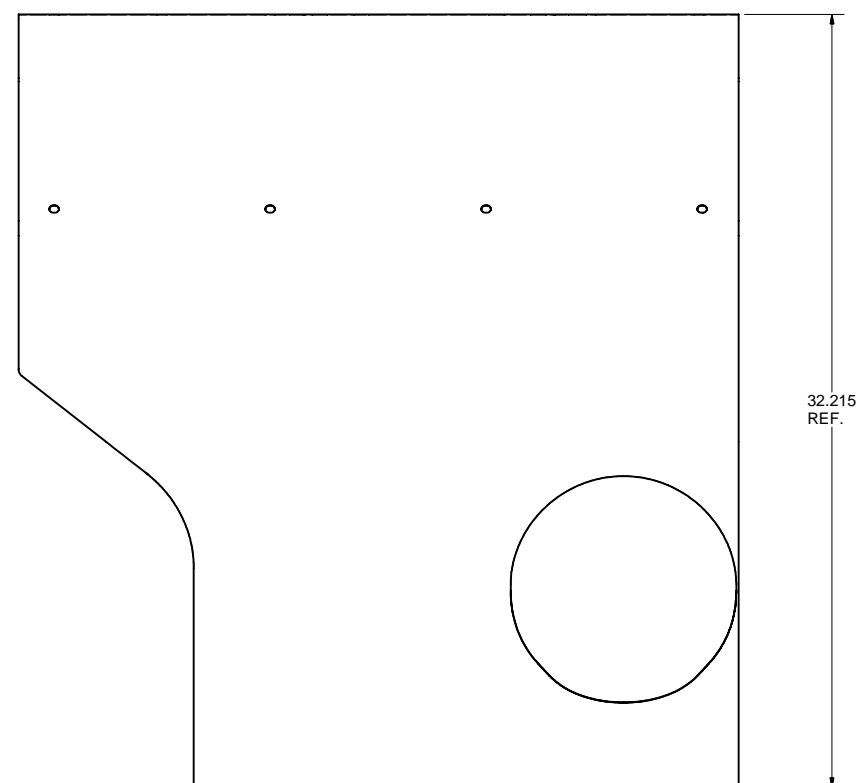
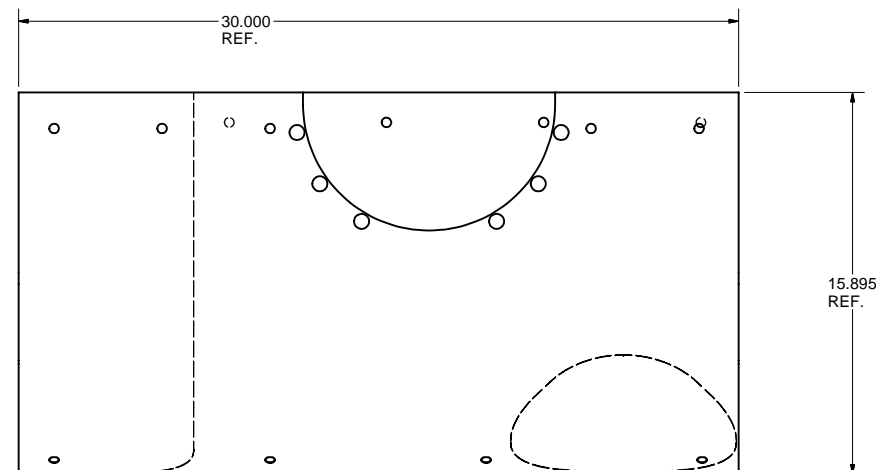
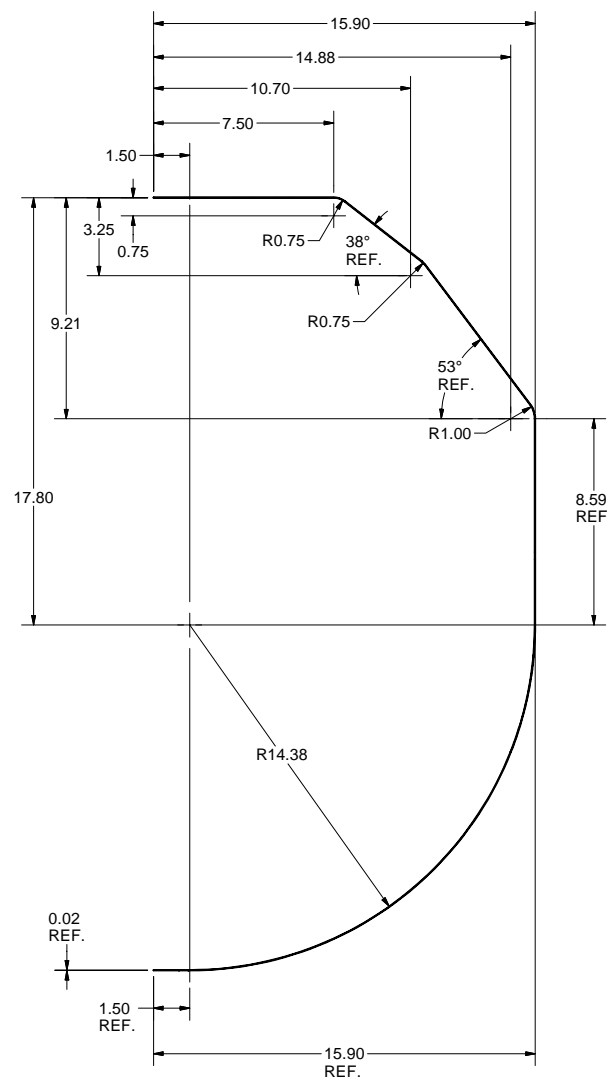
18		SLOTTED ROUND HD. MACH. SCR. 8-32 X .375" LG	10			316L STN. STL. DICRONITED
17		HEX NUT 8-32 UNC	10			316L STAINLESS STL
16		TYPE A- PLAIN WASHER #8	10			316L STAINLESS STL
15		TYPE B- PLAIN WASHER #10	90			316L STAINLESS STL
14		SLOTTED RD.HD.MACH SCR.10-24UNCx.375	34			316L STAINLESS STL
13		SLOTTED RD.HD.MACH SCR.10-24UNCx.5 LG	56			316L STAINLESS STL
12D	SHEET 10	MAGNET SHIELD SPACER 4 (.185 THK.)	28			
12C	SHEET 10	MAGNET SHIELD SPACER 3 (.165 THK.)	28			
12B	SHEET 10	MAGNET SHIELD SPACER 2 (.05 THK.)	17			
12A	SHEET 10	MAGNET SHIELD SPACER 1 (.04 THK.)	17			
11	SHEET 10	MAGNETIC SHIELD WPM COVER	1			FLAT PATTERN SHOWN
10	SHEET 10	MAGNETIC SHIELD TUNER COVER	4			FLAT PATTERN SHOWN
9	SHEET 9	MAGNETIC SHIELD BACK RIGHT	1			FLAT PATTERN SHOWN
8	SHEET 8	MAGNETIC SHIELD BACK LEFT	1			FLAT PATTERN SHOWN
7	SHEET 7	MAGNETIC SHIELD FRONT LEFT	1			FLAT PATTERN SHOWN
6	SHEET 6	MAGNETIC SHIELD FRONT RIGHT	1			FLAT PATTERN SHOWN
5	SHEET 5	MAGNETIC SHIELD 4	1			FLAT PATTERN SHOWN
4	SHEET 4	MAGNETIC SHIELD 3	1			FLAT PATTERN SHOWN
3	SHEET 3	MAGNETIC SHIELD 2	1			FLAT PATTERN SHOWN
2	SHEET 2	MAGNETIC SHIELD 1	1			FLAT PATTERN SHOWN
1	SHEET 1	ASSEMBLY	X			

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.		
								QUANTITY						
D	PRINT DISTR.	PLOT DATE: 3/20/2007 CAD FILE NAME: 7110-023.idw												
7110-023 SH. NO. 1 OF 10	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .015 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES			 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 ERL Horizontal Test Cryomodule MAGNETIC SHIELD III ASSEMBLY									
	CHECKED BY: VM			DRAWN BY		DRAWN FOR		DATE		SCALE		D	7110-023 SH. NO. 1 OF 10	REV. A
	APPROVED BY: MUL			DME		VM		8/28/2006						

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

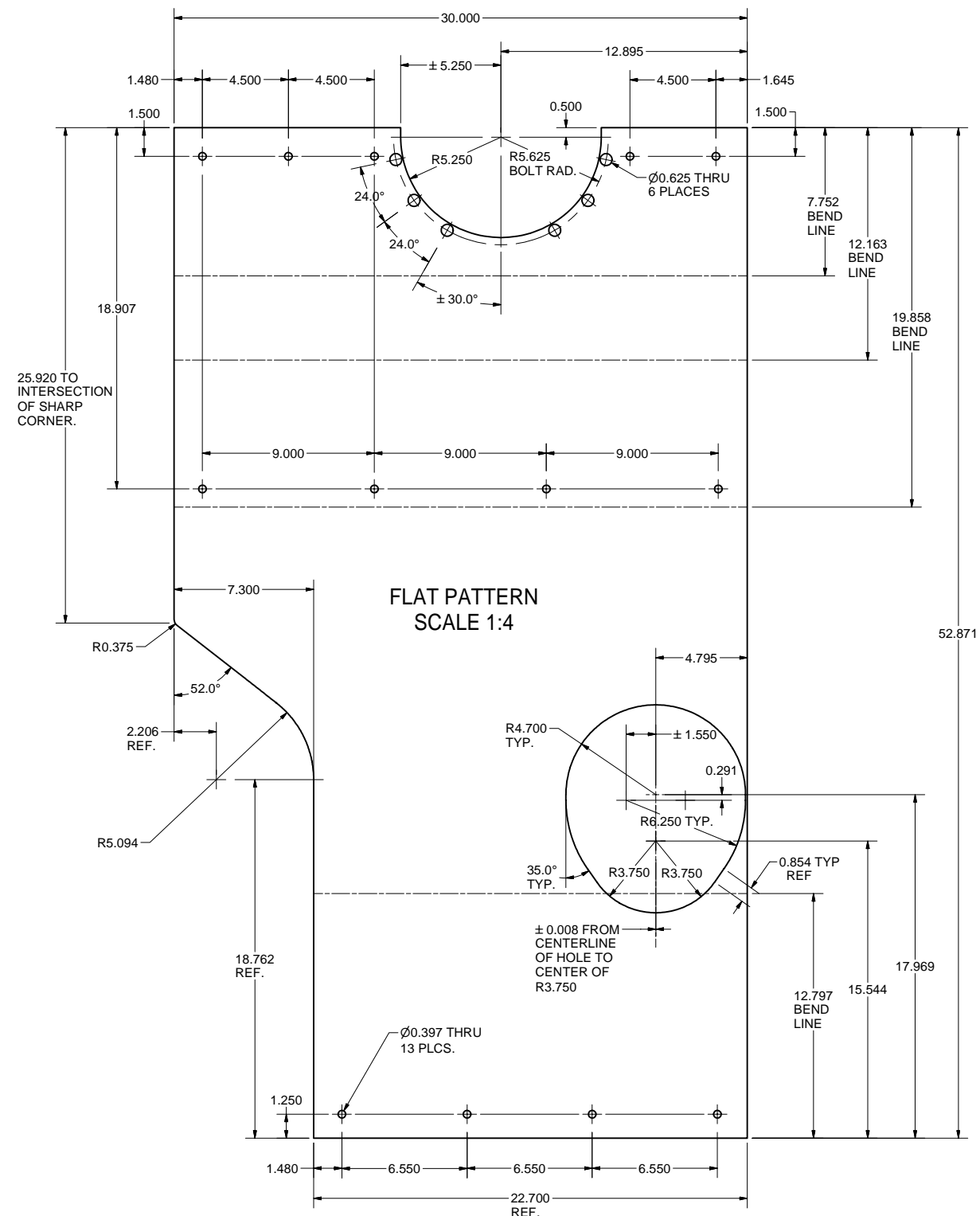


SCALE 1:5

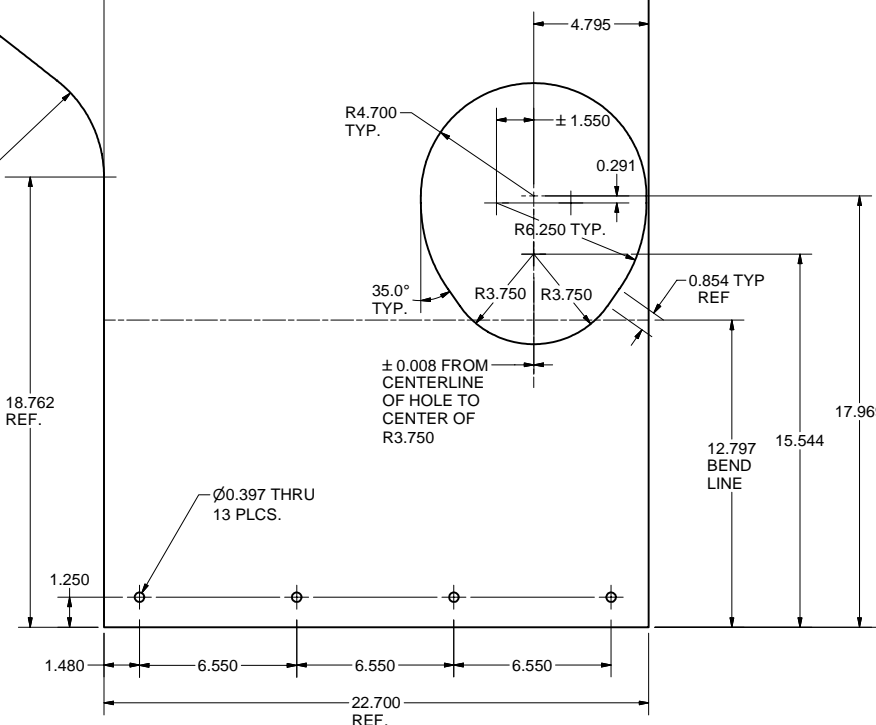






 MAGNETIC SHIELD 1

FILE NAME: 7110-023
SHEET NO.: 2
DFT. SCALE: 1:4
MATERIAL: MUMETAL (80% NICKEL ALLOY); .020 THK.
QTY: 1 PER ASM
NOTES:



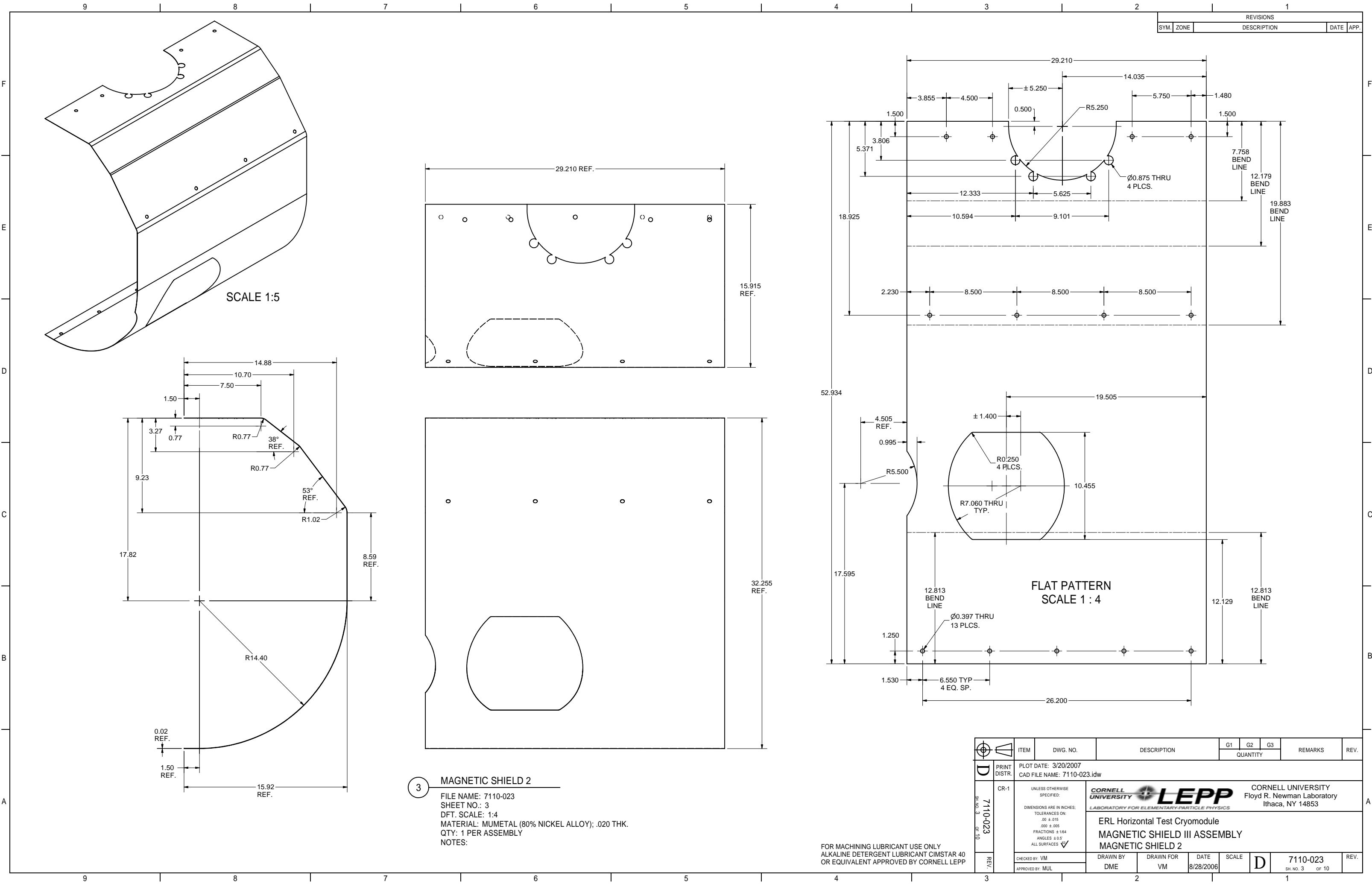
FLAT PATTERN
SCALE 1:4



	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
				QUANTITY				
	PRINT DISTR.	PLOT DATE: 3/20/2007 CAD FILE NAME: 7110-023.idw						
SH. NO. 2 OF 10	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN: INCHES: TOLERANCES ON: .00 ± .015 .000 ± .005 FRACTIONS ± 1/64 ALL ANGLES ± 0.5° ALL SURFACES ✓	 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			ERL Horizontal Test Cryomodule MAGNETIC SHIELD III ASSEMBLY MAGNETIC SHIELD 1		
REV.	CHECKED BY: VM APPROVED BY: MUL	DRAWN BY DME	DRAWN FOR VM	DATE 8/28/2006	SCALE		7110-023 SH. NO. 2 OF 10	REV.

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

A

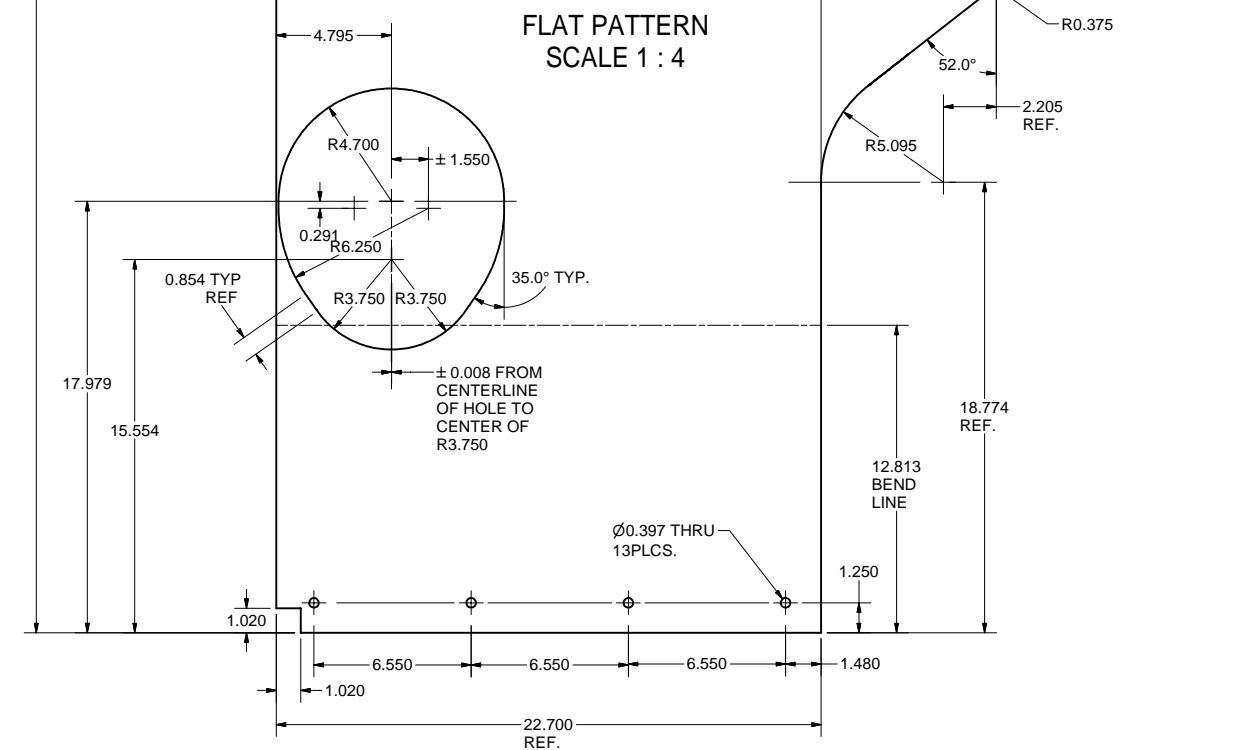
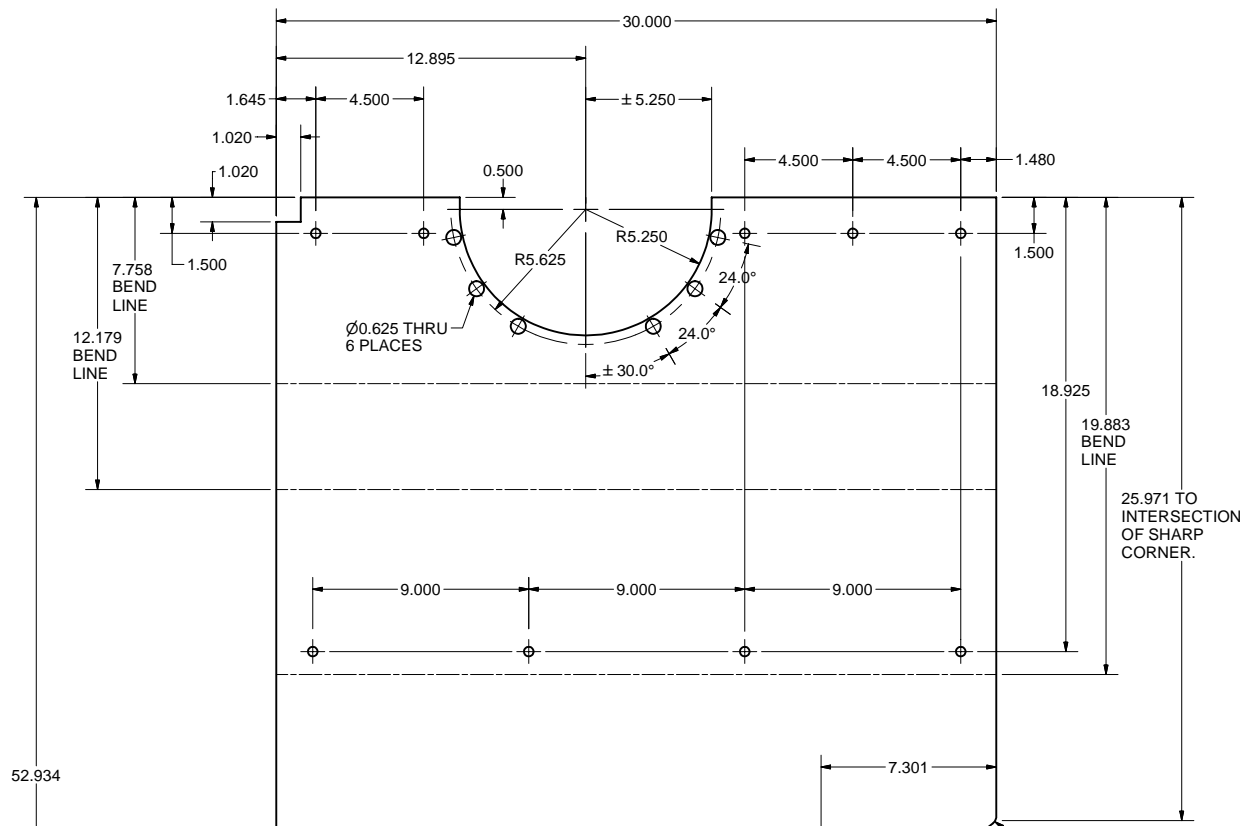
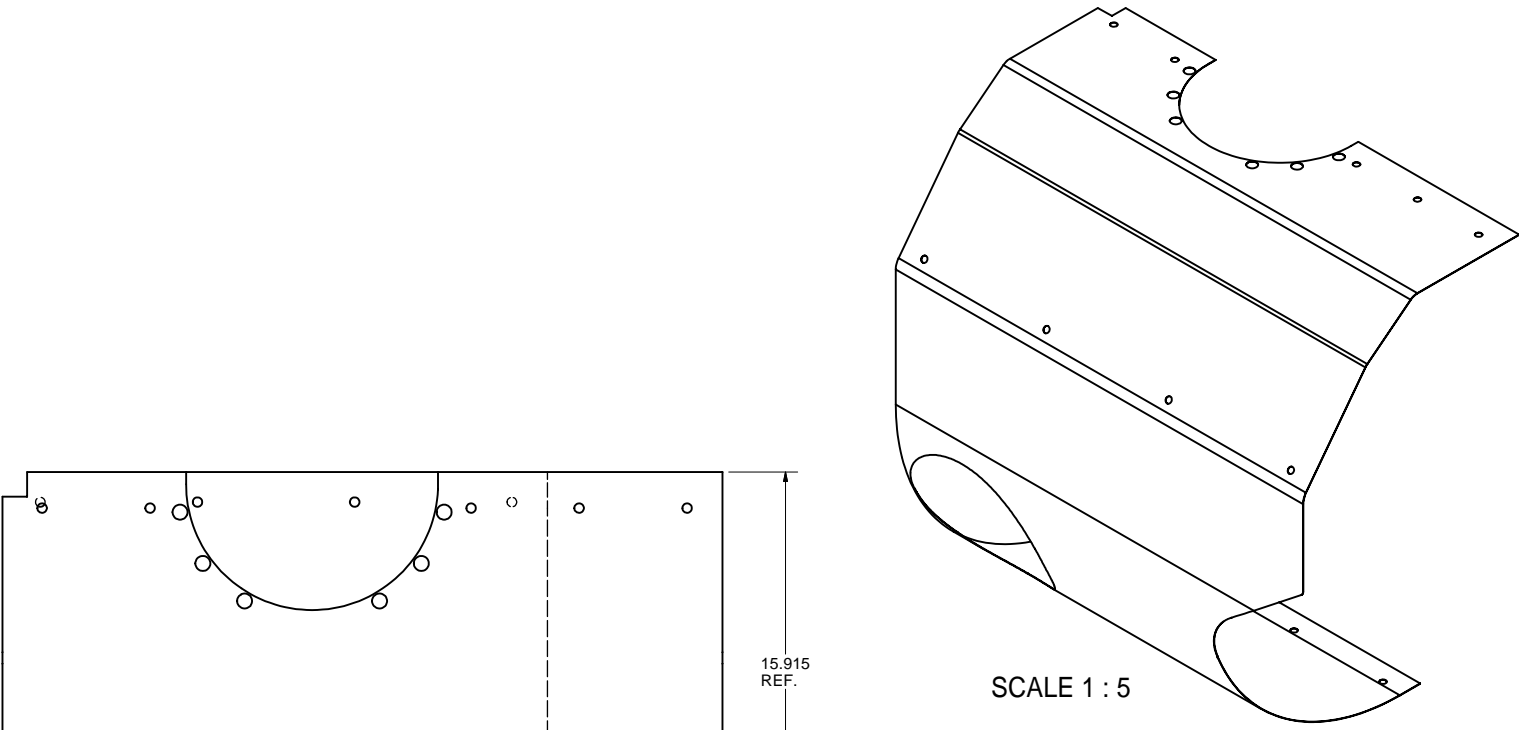


3 MAGNETIC SHIELD 2

FILE NAME: 7110-023
SHEET NO.: 3
DFT. SCALE: 1:4
MATERIAL: MUMETAL (80% NICKEL ALLOY); .020 THK.
QTY: 1 PER ASSEMBLY
NOTES:

		ITEM	DWG. NO.	DESCRIPTION			G1G2G3			REMARKS	REV.	
							QUANTITY					
		PRINT DISTR.	PLOT DATE: 3/20/2007 CAD FILE NAME: 7110-023.idw									
		CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .015 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓			<div><div> LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL Horizontal Test Cryomodule MAGNETIC SHIELD III ASSEMBLY MAGNETIC SHIELD 2</div>						
7110-023 SH. NO. 3 OF 10												
REV.												
		CHECKED BY: VM	DRAWN BY DME		DRAWN FOR VM		DATE 8/28/2006		SCALE		7110-023 SH. NO. 3 OF 10	REV.
		APPROVED BY: MUL										

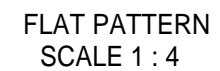
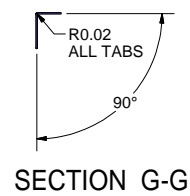
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



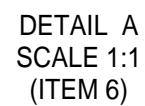
4 MAGNETIC SHIELD 3
FILE NAME: 7110-023
SHEET NO.: 4
DFT. SCALE: 1:4
MATERIAL: MUMETAL (80% NICKEL ALLOY); .020 THK.
QTY: 1 PER ASSEMBLY
NOTES:

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.
	QUANTITY									
	PRINT DISTR.	PLOT DATE: 3/20/2007 CAD FILE NAME: 7110-023.idw								
	CR-1	<div>UNLESS OTHERWISE SPECIFIED:</div> <div>DIMENSIONS ARE IN INCHES:</div> <div>TOLERANCES ON:</div> <div>.00 ± .015</div> <div>.000 ± .005</div> <div>FRACTIONS ± 1/64</div> <div>ANGLES ± 0.5°</div> <div>ALL SURFACES ✓</div>	<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL Horizontal Test Cryomodule</div> <div>MAGNETIC SHIELD III ASSEMBLY</div> <div>MAGNETIC SHIELD 3</div>							
			CHECKED BY: VM	DRAWN BY	DRAWN FOR	DATE	SCALE		7110-023	REV.
			APPROVED BY: MUL	DME	VM	8/28/2006				







**NOTE: FULL SIZE TEMPLATE
AVAILABLE IN 2D ACAD
IF REQUESTED.**



6 MAGNETIC SHIELD FRONT RIGHT

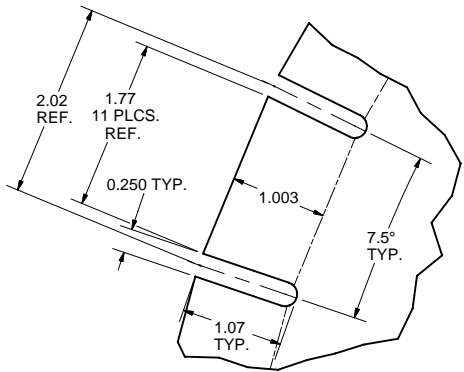
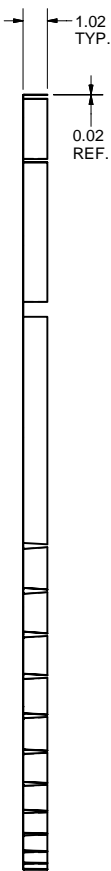
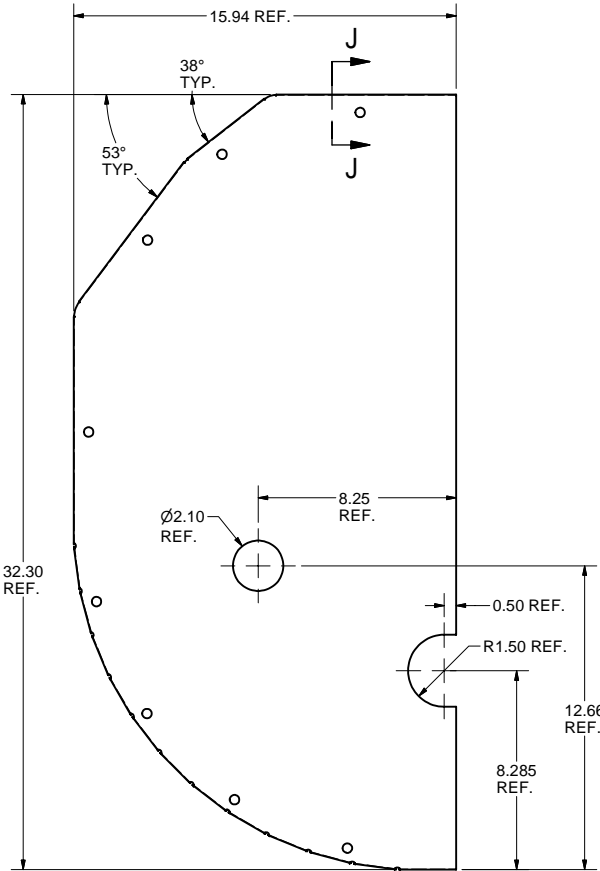
FILE NAME: 7110-023
 SHEET NO.: 6
 DFT. SCALE: 1:4
 MATERIAL: MUMETAL (80% NICKEL ALLOY); .020 THK.
 QTY: 1 PER ASSEMBLY
 NOTES:

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.
							QUANTITY			
	PRINT DISTR.	PLOT DATE: 3/20/2007 CAD FILE NAME: 7110-023.idw								
SH. NO. 6 OF 10	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .015 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓	 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853							
			ERL Horizontal Test Cryomodule MAGNETIC SHIELD III ASSEMBLY MAGNETIC SHIELD FRONT RIGHT							
REV.	CHECKED BY: VM APPROVED BY: MUL	DRAWN BY DME	DRAWN FOR VM	DATE 8/28/2006	SCALE		7110-023 SH. NO. 6 OF 10			REV.

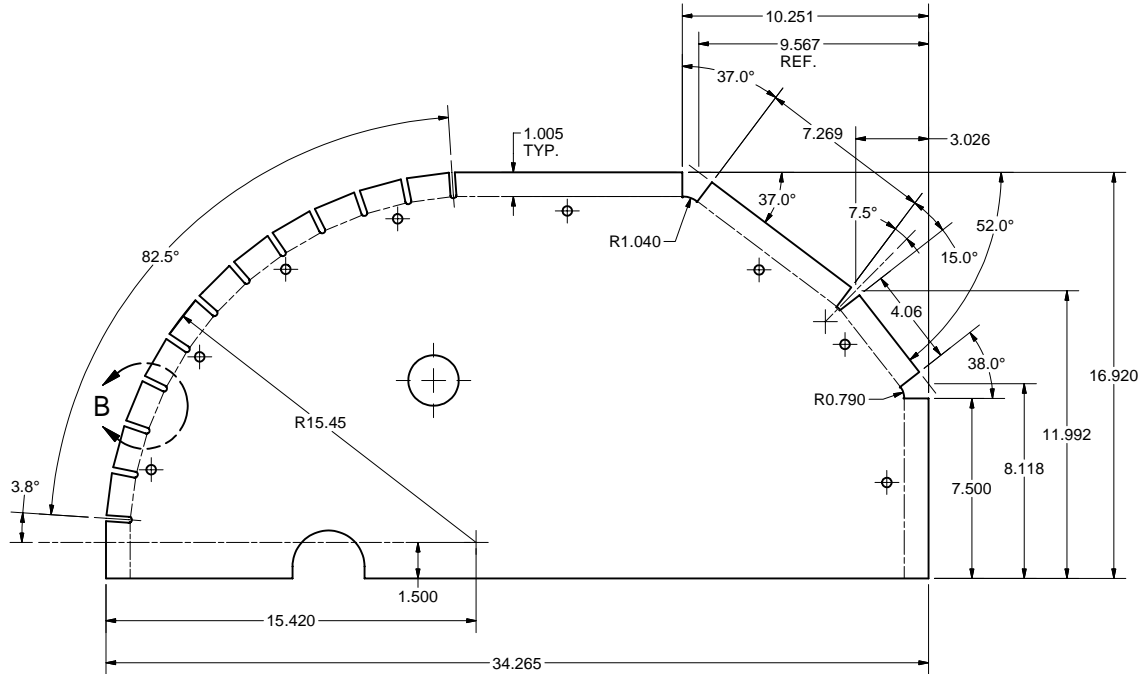
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.

SECTION J-J
SCALE 1 : 4

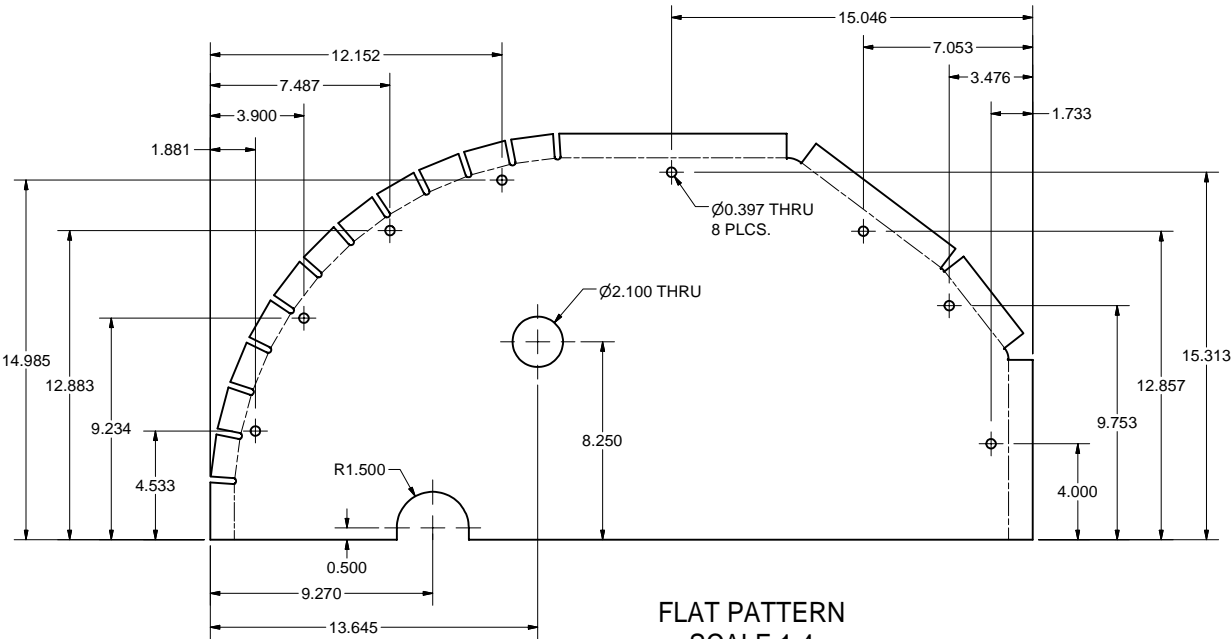


DETAIL B
SCALE 1:1

8 MAGNETIC SHIELD BACK LEFT
FILE NAME: 7110-023
SHEET NO.: 8
DFT. SCALE: 1:4
MATERIAL: MUMETAL (80% NICKEL ALLOY); .020 THK.
QTY: 1 PER ASSEMBLY
NOTES:





FLAT PATTERN
SCALE 1 : 4

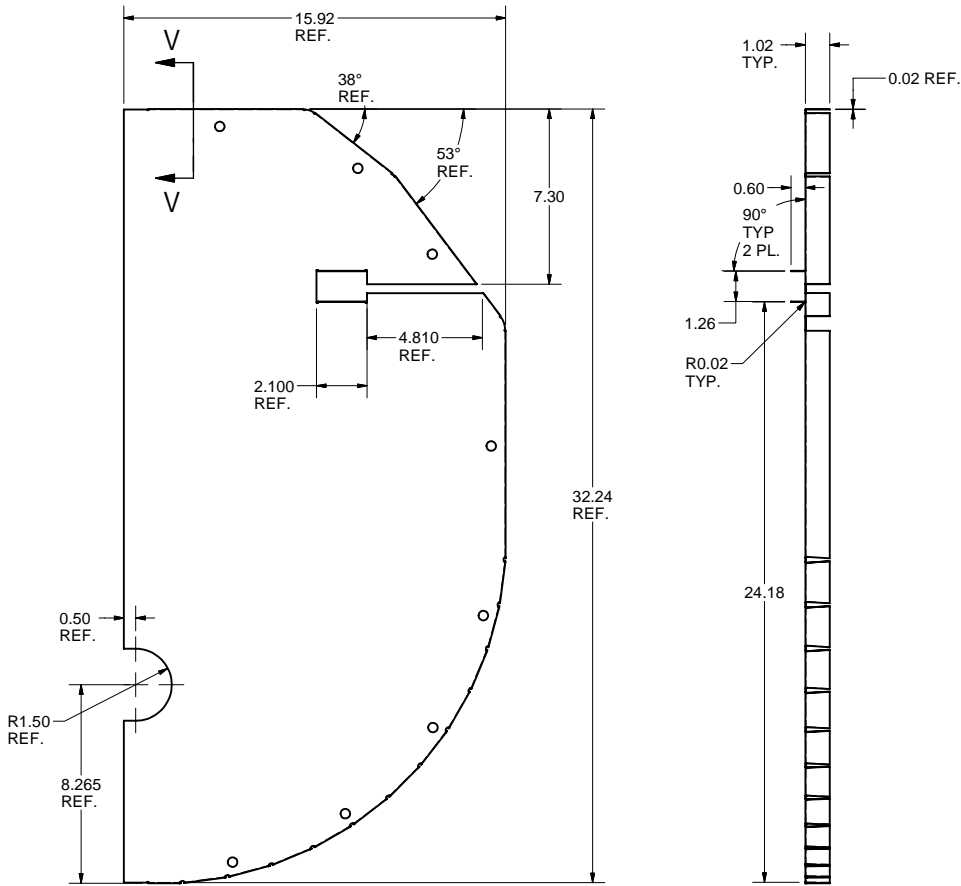


FLAT PATTERN
SCALE 1:4

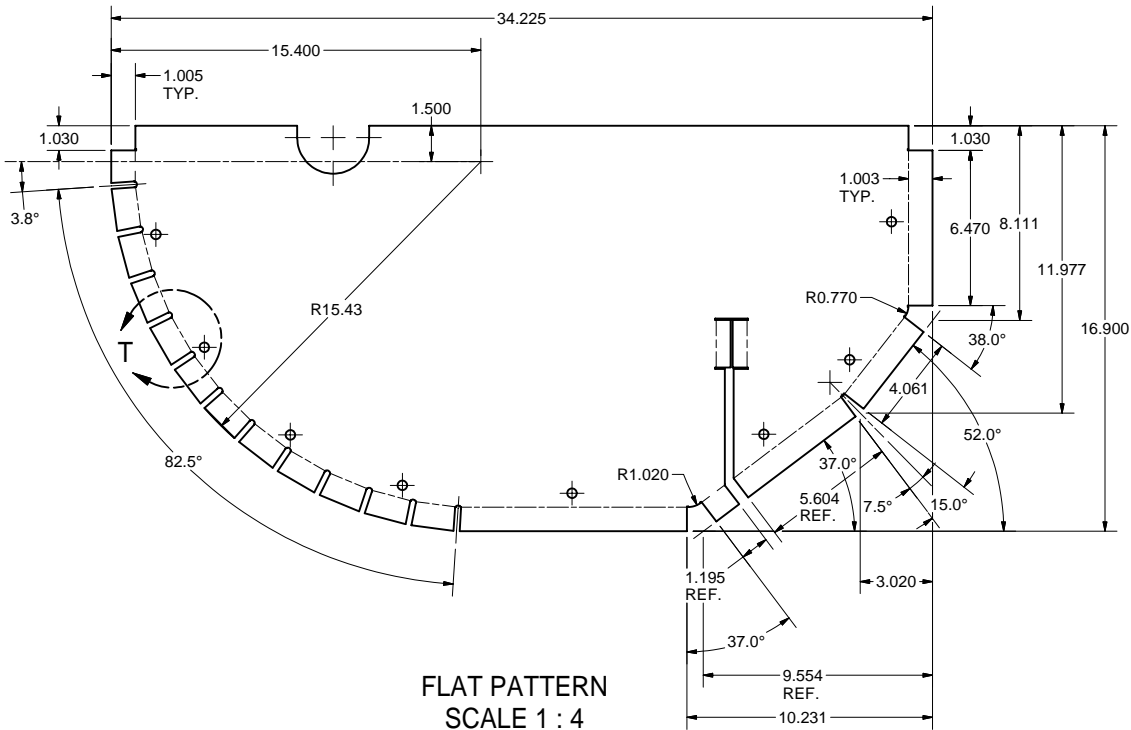
NOTE: FULL SIZE TEMPLATES
AVAILABLE IN 2D ACAD
IF REQUESTED.

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
D	PRINT DISTR.	PLOT DATE: 3/20/2007 CAD FILE NAME: 7110-023.idw										
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .015 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓		<div><div> </div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>ERL Horizontal Test Cryomodule MAGNETIC SHIELD III ASSEMBLY MAGNETIC SHIELD BACK LEFT</div>								
7110-023 SH. NO. 8 OF 10	REV.	CHECKED BY: VM	DRAWN BY	DRAWN FOR	DATE	SCALE	D	7110-023		REV.		
	APPROVED BY: MUL	DME	VM	8/28/2006		SH. NO. 8 OF 10						

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

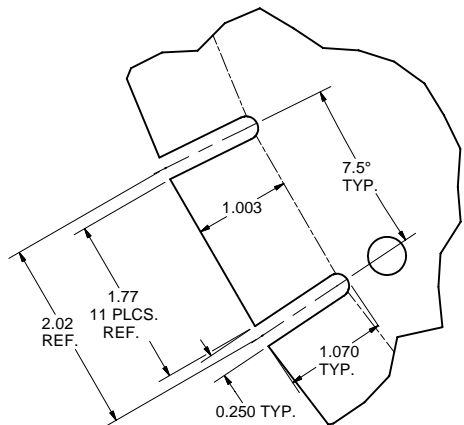


SECTION V-V
SCALE 1 : 4

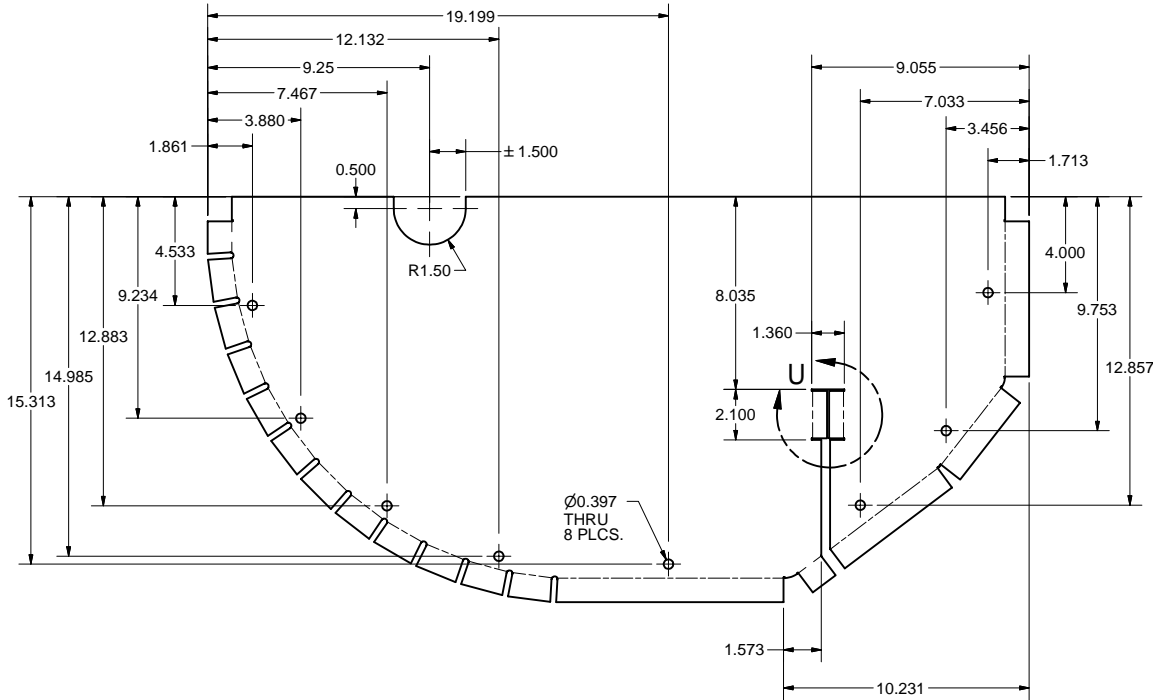


FLAT PATTERN
SCALE 1 : 4

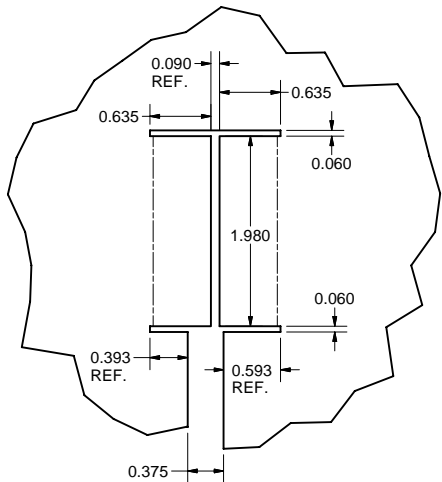
NOTE: FULL SIZE TEMPLATES
AVAILABLE IN 2D ACAD
IF REQUESTED.



DETAIL T
SCALE 1:1




FLAT PATTERN
SCALE 1 : 4



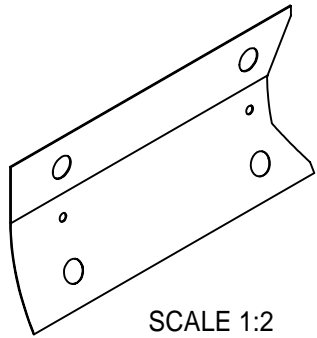
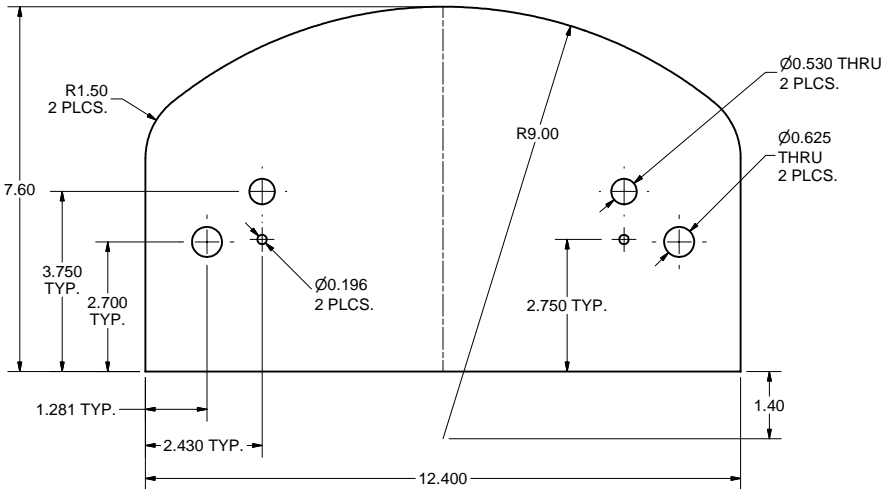
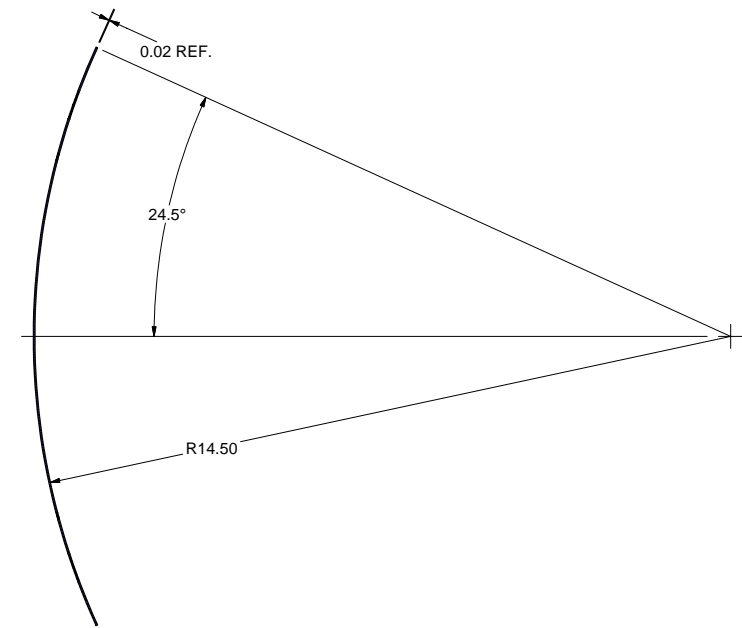
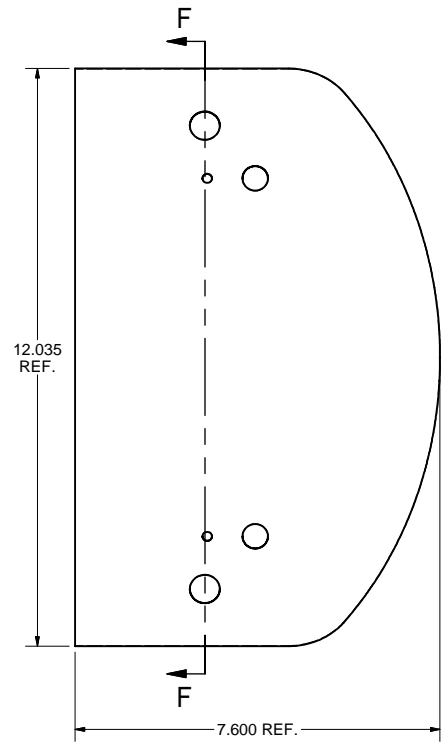
DETAIL U
SCALE 1

9 MAGNETIC SHIELD BACK RIGHT
FILE NAME: 7110-023
SHEET NO.: 9
DFT. SCALE: 1:4
MATERIAL: MUMETAL (80% NICKEL ALLOY); .020 THK.
QTY: 1 PER ASSEMBLY
NOTES:

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

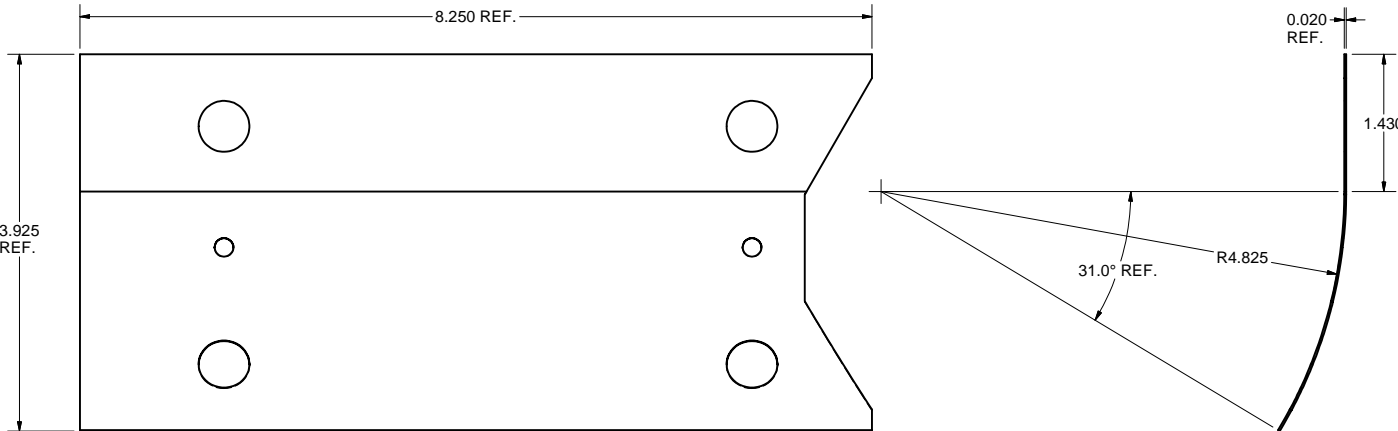
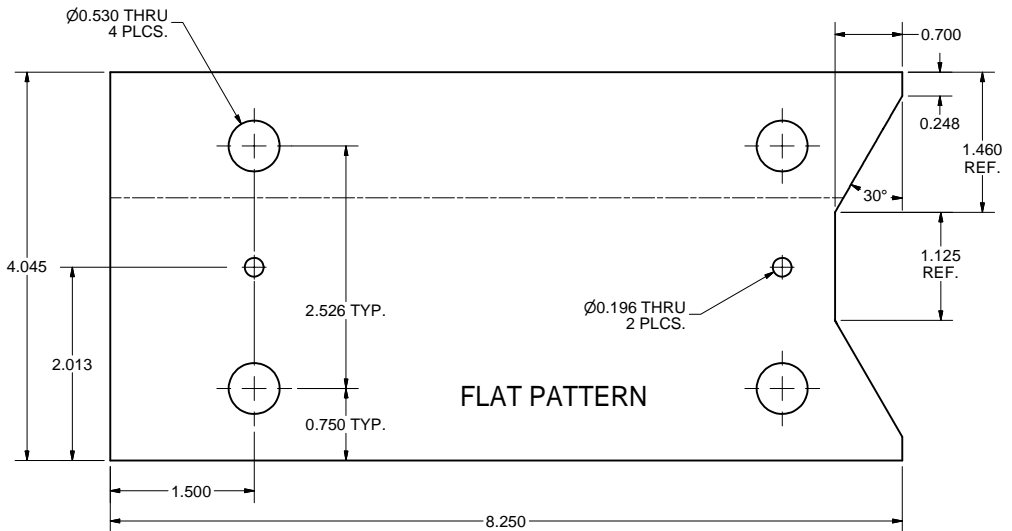
		ITEM		DWG. NO.		DESCRIPTION			G1		G2		G3		REMARKS		REV.	
D		PRINT DISTR.		PLOT DATE: 3/20/2007 CAD FILE NAME: 7110-023.idw														
7110-023 SH. NO. 9 OF 10		CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .015 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓			<div><div><p>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</p></div><div>ERL Horizontal Test Cryomodule MAGNETIC SHIELD III ASSEMBLY MAGNETIC SHIELD BACK RIGHT</div></div>											
REV.		CHECKED BY: VM APPROVED BY: MUL		DRAWN BY DME		DRAWN FOR VM		DATE 8/28/2006		SCALE		D		7110-023 SH. NO. 9 OF 10		REV.		

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		Corrected quantities of items 12C & 12D.	3/20/07	TIO

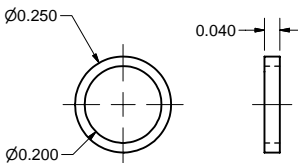


10 **MAGNETIC SHIELD TUNER COVER**
FILE NAME: 7110-023
SHEET NO.: 10
DFT. SCALE: 1:2
MATERIAL: MUMETAL (80% NICKEL ALLOY); .020 THK.
QTY: 4 PER ASSEMBLY
NOTES:

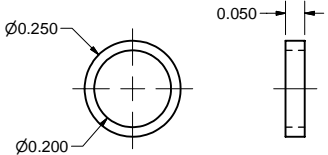
**NOTE: FULL SIZE TEMPLATES
AVAILABLE IN 2D ACAD
IF REQUESTED.**



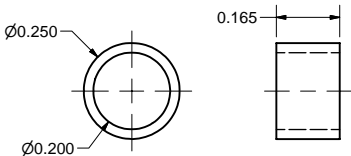
11 **MAGNETIC SHIELD WPM COVER**
FILE NAME: 7110-023
SHEET NO.: 10
DFT. SCALE: 1:1
MATERIAL: MUMETAL (80% NICKEL ALLOY); .020 THK.
QTY: 1 PER ASSEMBLY
NOTES:



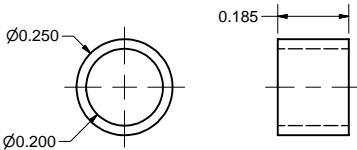
12A **MAGNETIC SHIELD SPACER 1**
FILE NAME: 7110-023
SHEET NO.: 10
DFT. SCALE: 4:1
MATERIAL: 316L SST
QTY: 17
NOTES:



12B **MAGNETIC SHIELD SPACER 2**
FILE NAME: 7110-023
SHEET NO.: 10
DFT. SCALE: 4:1
MATERIAL: 316L SST
QTY: 17
NOTES:



12C **MAGNETIC SHIELD SPACER 3**
FILE NAME: 7110-023
SHEET NO.: 10
DFT. SCALE: 4:1
MATERIAL: 316L SST
QTY: 28
NOTES:



12D **MAGNETIC SHIELD SPACER 4**
FILE NAME: 7110-023
SHEET NO.: 10
DFT. SCALE: 4:1
MATERIAL: 316L SST
QTY: 28
NOTES:

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ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

		ITEM	DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY					
D	PRINT DISTR.	PLOT DATE: 3/20/2007 CAD FILE NAME: 7110-023.idw											
7110-023 SH. NO. 10 OF 10	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .015 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓		 CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853 ERL Horizontal Test Cryomodule MAGNETIC SHIELD III ASSEMBLY MAGNETIC SHIELD TUNER & WPM COVERS/SPACERS									
REV. A	CHECKED BY: VM	DRAWN BY DME		DRAWN FOR VM		DATE 8/28/2006	SCALE	D	7110-023 SH. NO. 10 OF 10		REV. A		
	APPROVED BY: MUL												