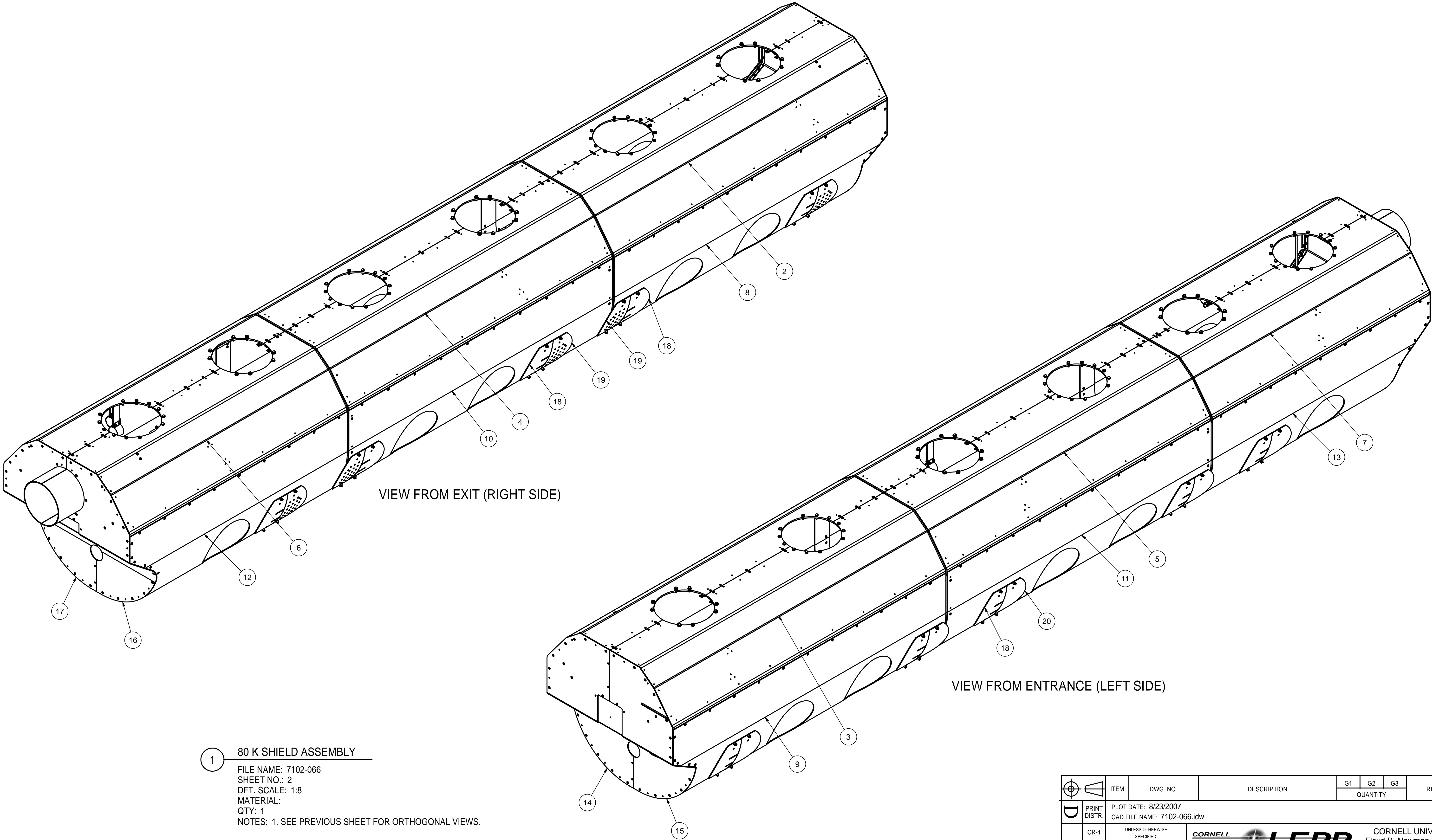
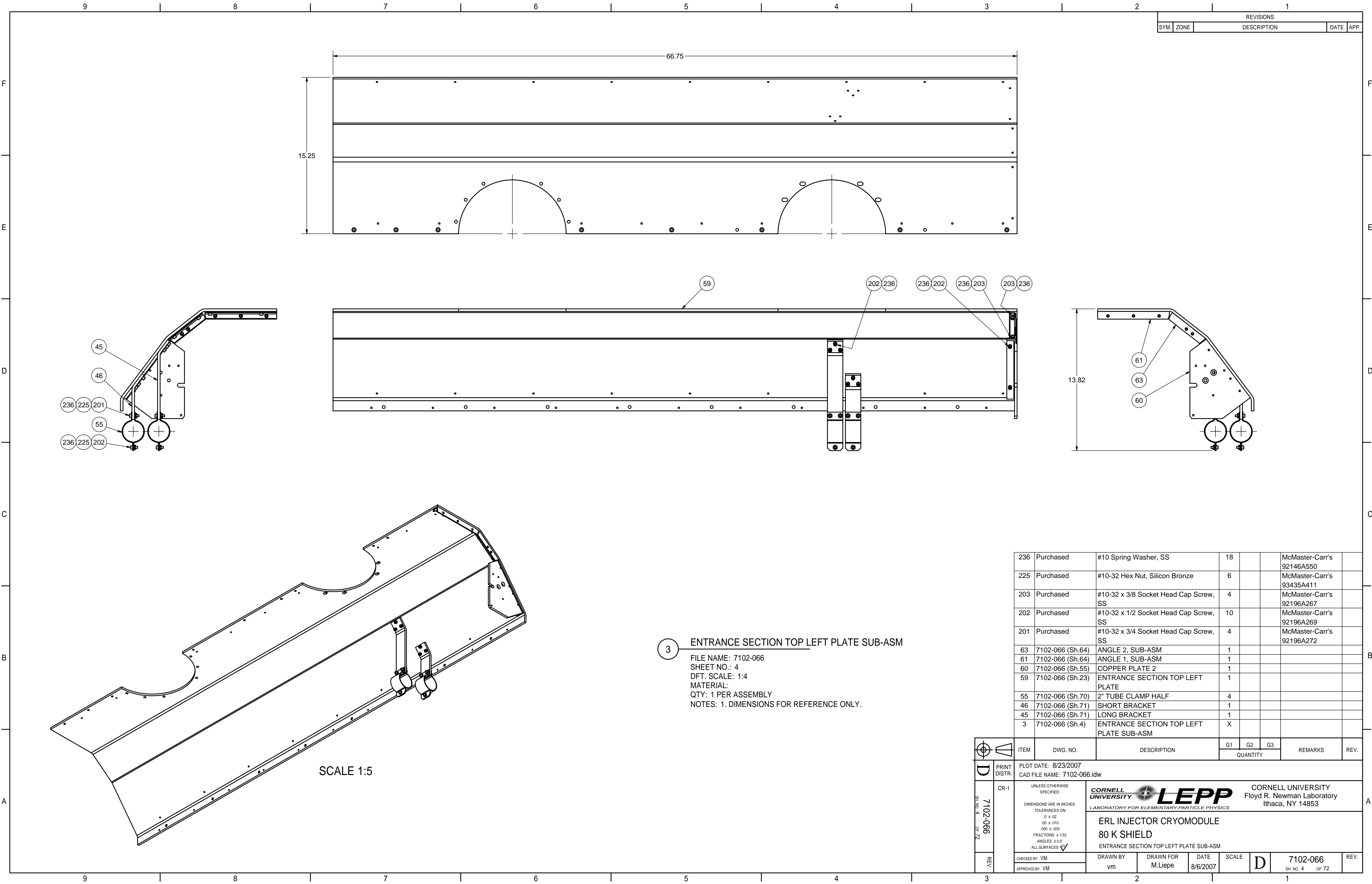


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.




- 1 80 K SHIELD ASSEMBLY
- FILE NAME: 7102-066
SHEET NO.: 2
DFT. SCALE: 1:8
MATERIAL:
QTY: 1
NOTES: 1. SEE PREVIOUS SHEET FOR ORTHOGONAL VIEWS.

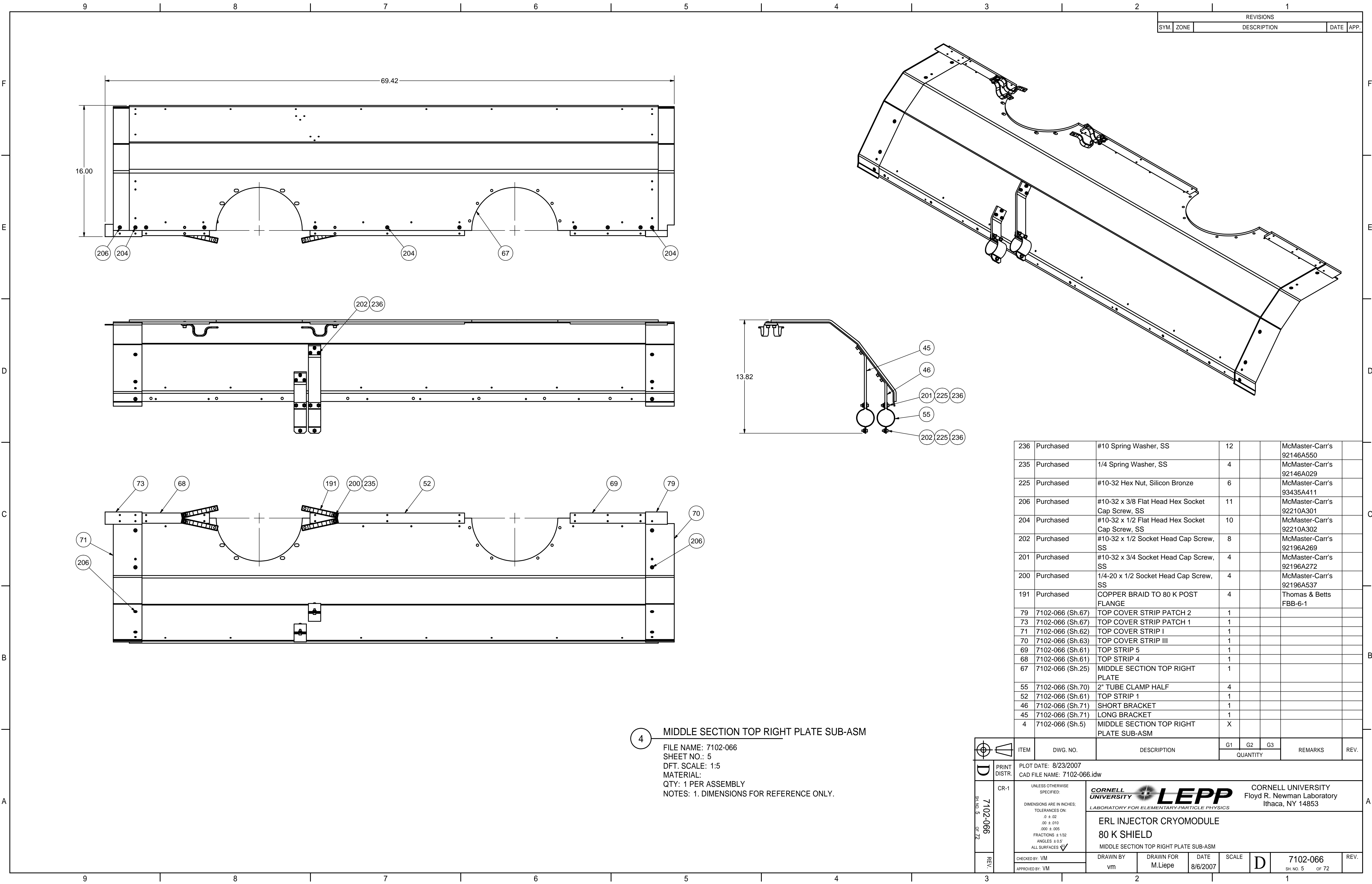
		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.	
					QUANTITY					
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw								
	7102-066 SH. NO. 2 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES		<div>CORNELL UNIVERSITY CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD 80 K SHIELD ASSEMBLY: ISO VIEWS</div>					
		CHECKED BY: VM		DRAWN BY	DRAWN FOR	DATE	SCALE	D	7102-066 SH. NO. 2 OF 72	REV.
		APPROVED BY: VM		vm	M.Liepe	8/6/2007				



REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.




236	Purchased	#10 Spring Washer, SS	18			McMaster-Carr's 92146A550	
225	Purchased	#10-32 Hex Nut, Silicon Bronze	6			McMaster-Carr's 93435A411	
203	Purchased	#10-32 x 3/8 Socket Head Cap Screw, SS	4			McMaster-Carr's 92196A267	
202	Purchased	#10-32 x 1/2 Socket Head Cap Screw, SS	10			McMaster-Carr's 92196A269	
201	Purchased	#10-32 x 3/4 Socket Head Cap Screw, SS	4			McMaster-Carr's 92196A272	
63	7102-066 (Sh.64)	ANGLE 2, SUB-ASM	1				
61	7102-066 (Sh.64)	ANGLE 1, SUB-ASM	1				
60	7102-066 (Sh.55)	COPPER PLATE 2	1				
59	7102-066 (Sh.23)	ENTRANCE SECTION TOP LEFT PLATE	1				
55	7102-066 (Sh.70)	2" TUBE CLAMP HALF	4				
46	7102-066 (Sh.71)	SHORT BRACKET	1				
45	7102-066 (Sh.71)	LONG BRACKET	1				
3	7102-066 (Sh.4)	ENTRANCE SECTION TOP LEFT PLATE SUB-ASM	X				

		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
					QUANTITY				
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw							
	7102-066 SH. NO. 4 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES		<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>				
		ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION TOP LEFT PLATE SUB-ASM							
		CHECKED BY: VM APPROVED BY: VM	DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE	D	7102-066 SH. NO. 4 OF 72	REV.

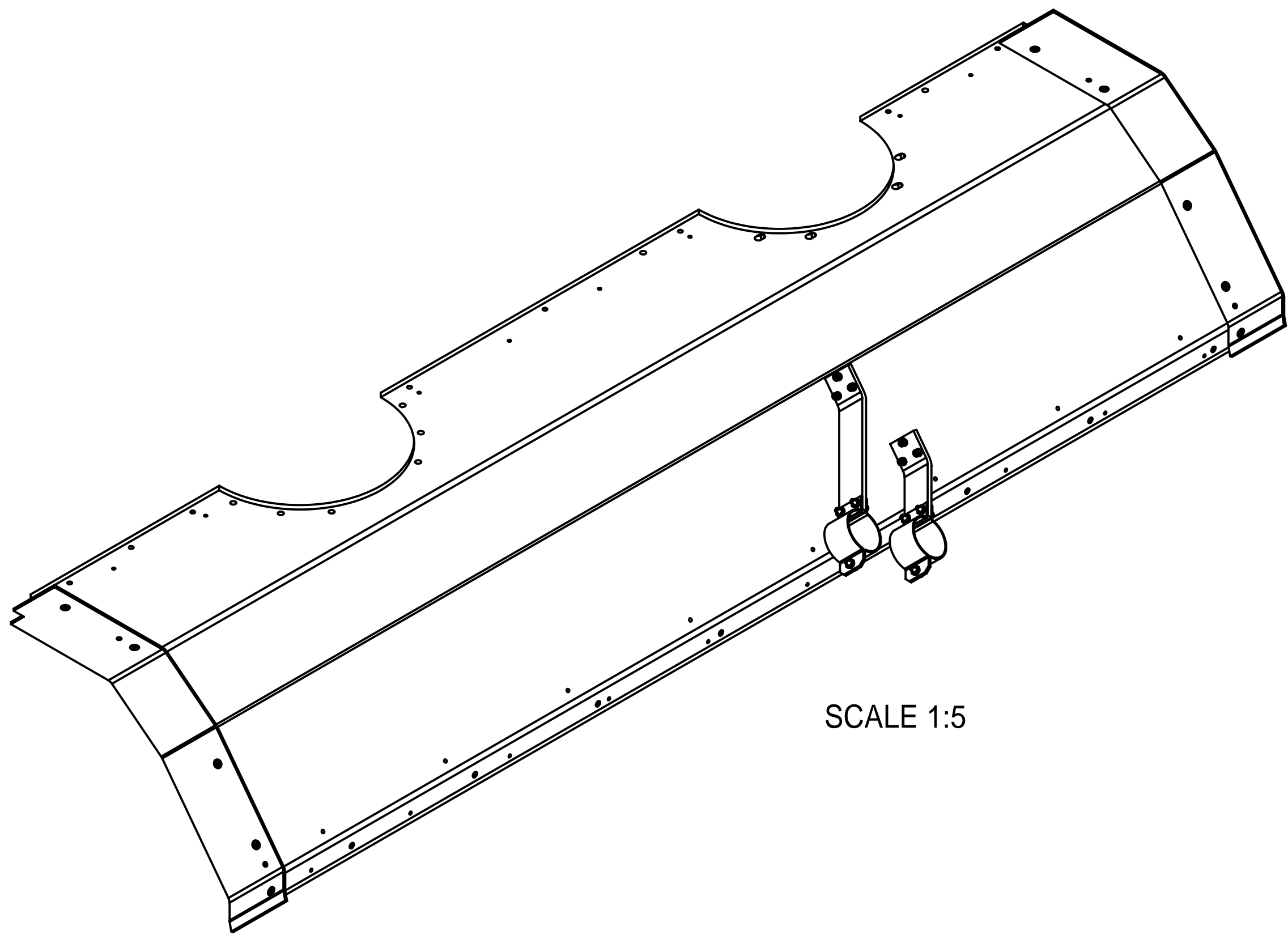
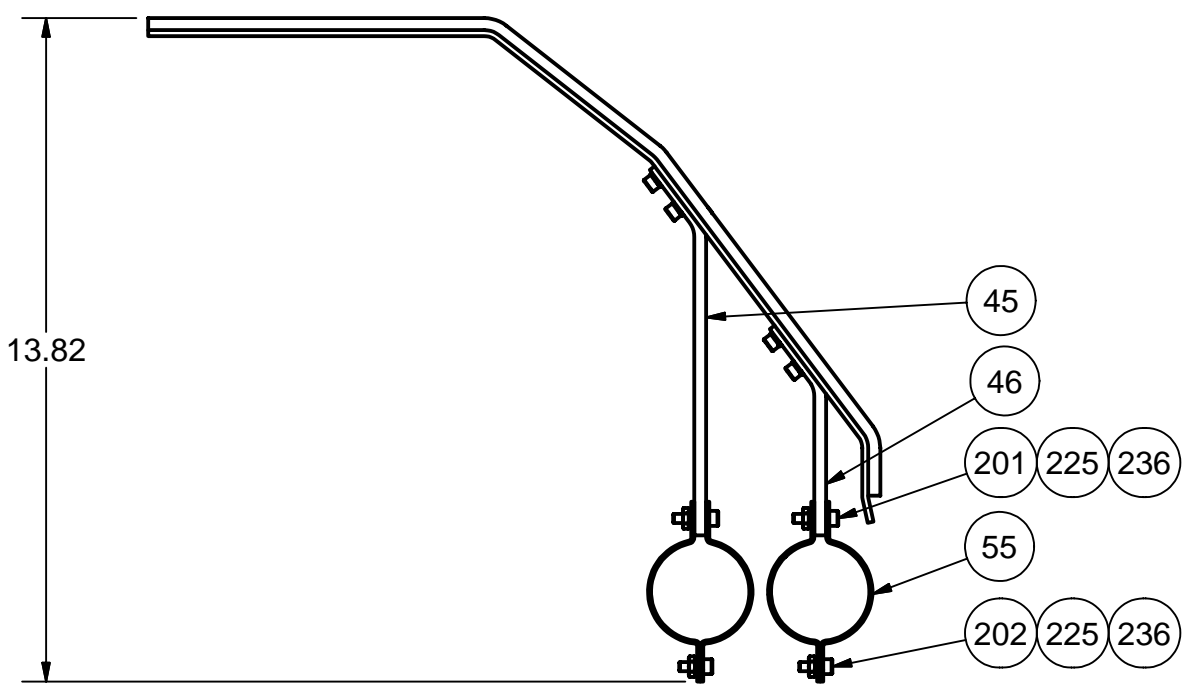
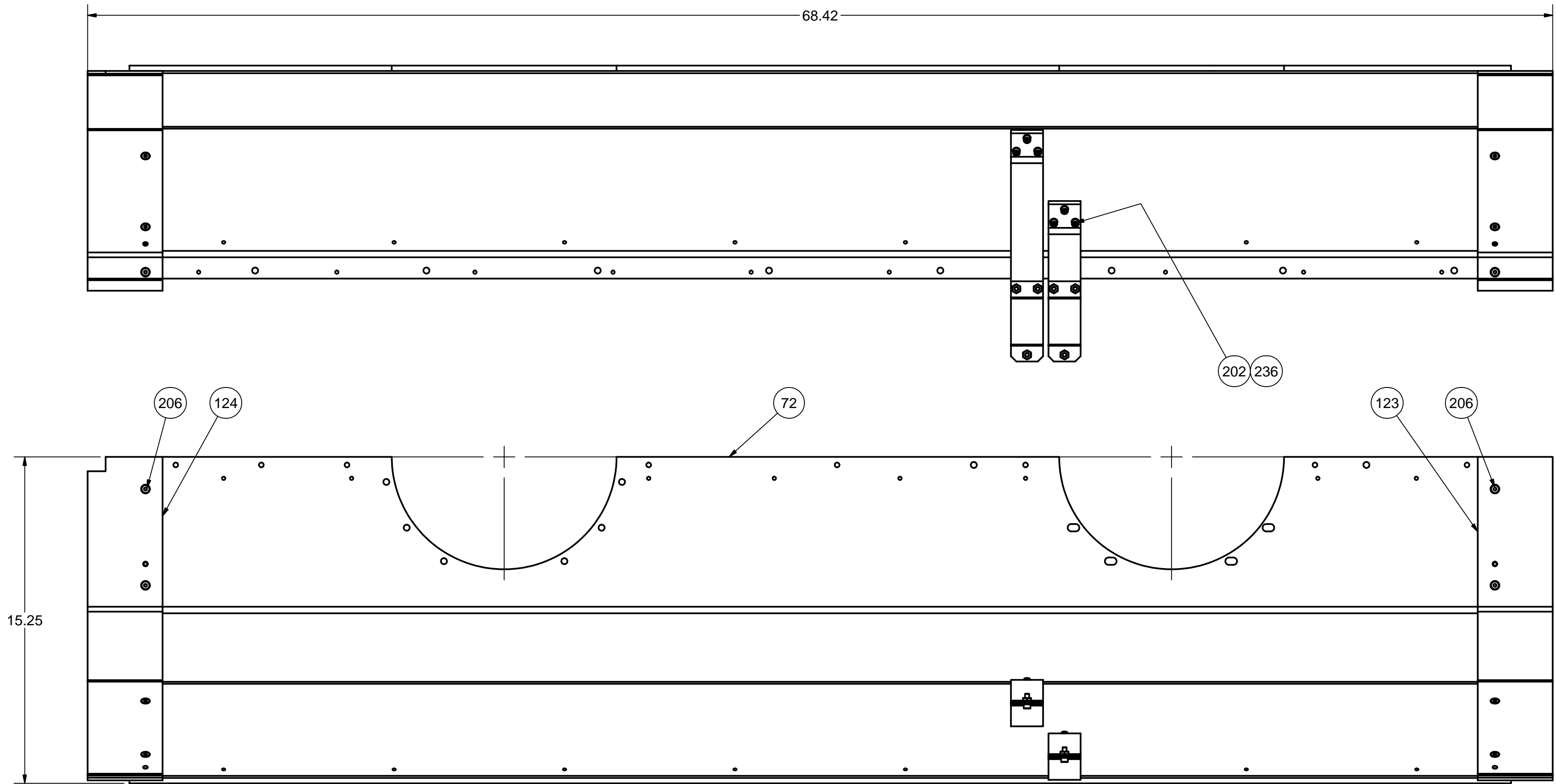


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

236	Purchased	#10 Spring Washer, SS	12		McMaster-Carr's 92146A550	
235	Purchased	1/4 Spring Washer, SS	4		McMaster-Carr's 92146A029	
225	Purchased	#10-32 Hex Nut, Silicon Bronze	6		McMaster-Carr's 93435A411	
206	Purchased	#10-32 x 3/8 Flat Head Hex Socket Cap Screw, SS	11		McMaster-Carr's 92210A301	
204	Purchased	#10-32 x 1/2 Flat Head Hex Socket Cap Screw, SS	10		McMaster-Carr's 92210A302	
202	Purchased	#10-32 x 1/2 Socket Head Cap Screw, SS	8		McMaster-Carr's 92196A269	
201	Purchased	#10-32 x 3/4 Socket Head Cap Screw, SS	4		McMaster-Carr's 92196A272	
200	Purchased	1/4-20 x 1/2 Socket Head Cap Screw, SS	4		McMaster-Carr's 92196A537	
191	Purchased	COPPER BRAID TO 80 K POST FLANGE	4		Thomas & Betts FBB-6-1	
79	7102-066 (Sh.67)	TOP COVER STRIP PATCH 2	1			
73	7102-066 (Sh.67)	TOP COVER STRIP PATCH 1	1			
71	7102-066 (Sh.62)	TOP COVER STRIP I	1			
70	7102-066 (Sh.63)	TOP COVER STRIP III	1			
69	7102-066 (Sh.61)	TOP STRIP 5	1			
68	7102-066 (Sh.61)	TOP STRIP 4	1			
67	7102-066 (Sh.25)	MIDDLE SECTION TOP RIGHT PLATE	1			
55	7102-066 (Sh.70)	2" TUBE CLAMP HALF	4			
52	7102-066 (Sh.61)	TOP STRIP 1	1			
46	7102-066 (Sh.71)	SHORT BRACKET	1			
45	7102-066 (Sh.71)	LONG BRACKET	1			
4	7102-066 (Sh.5)	MIDDLE SECTION TOP RIGHT PLATE SUB-ASM	X			

		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.		
					QUANTITY						
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw									
	CR-1	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES:</p> <p>TOLERANCES ON:</p> <p>.0 ± .02 .00 ± .010 .000 ± .005</p> <p>FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES </p>		<div><div><div>CORNELL UNIVERSITY</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div><div><div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div></div>							
7102-066 SH. NO. 5 OF 72				ERL INJECTOR CRYOMODULE 80 K SHIELD							
REV.		CHECKED BY: VM		DRAWN BY: vm		DRAWN FOR: M.Liepe		DATE: 8/6/2007	SCALE: D	7102-066 SH. NO. 5 OF 72	REV.
		APPROVED BY: VM									





4 MIDDLE SECTION TOP RIGHT PLATE SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 5
DFT. SCALE: 1:5
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. DIMENSIONS FOR REFERENCE ONLY.

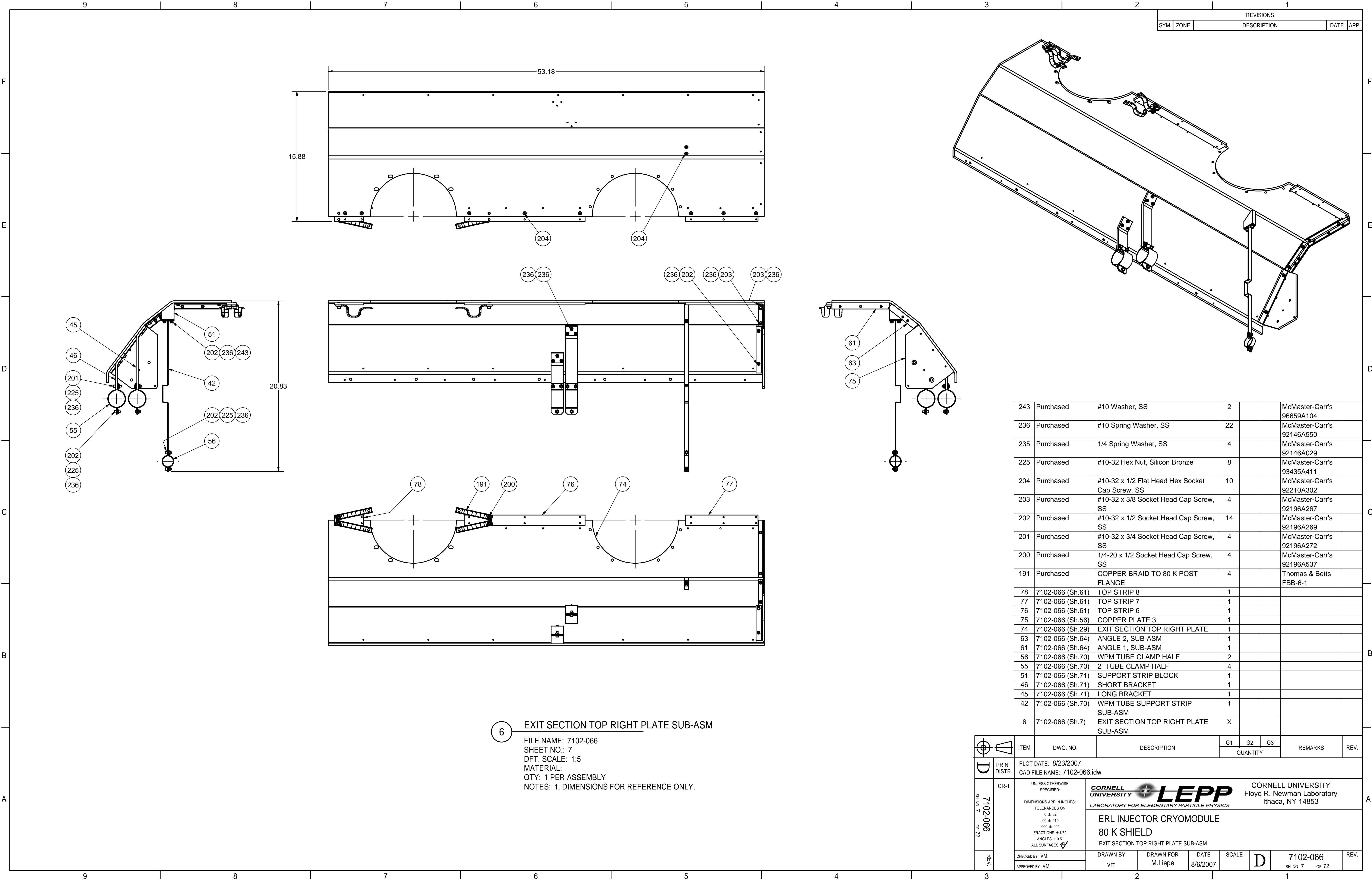


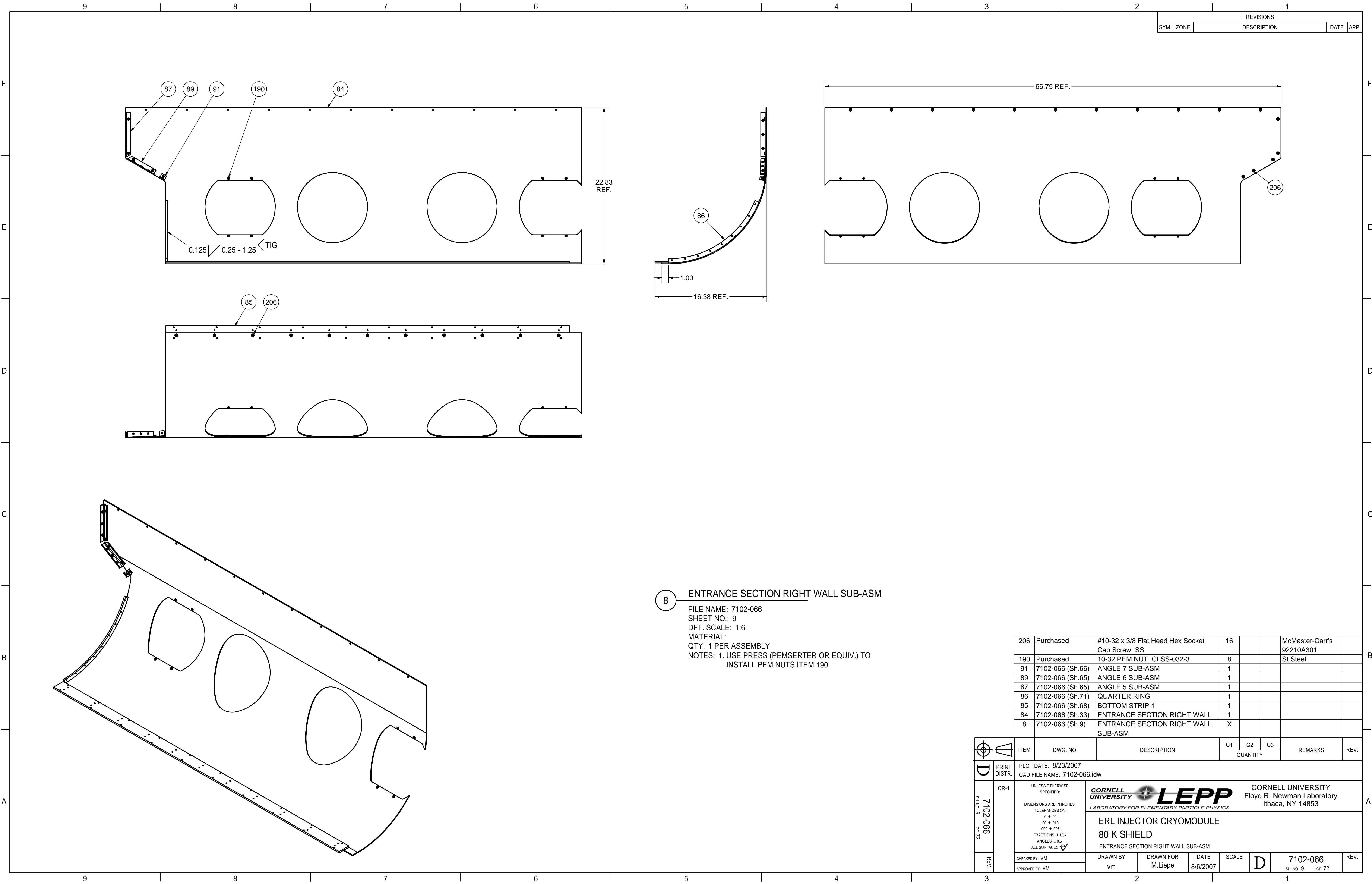
5 MIDDLE SECTION TOP LEFT PLATE SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 6
DFT. SCALE: 1:4
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. DIMENSIONS FOR REFERENCE ONLY.

236	Purchased	#10 Spring Washer, SS	12		McMaster-Carr's 92146A550	
225	Purchased	#10-32 Hex Nut, Silicon Bronze	6		McMaster-Carr's 93435A411	
206	Purchased	#10-32 x 3/8 Flat Head Hex Socket Cap Screw, SS	10		McMaster-Carr's 92210A301	
202	Purchased	#10-32 x 1/2 Socket Head Cap Screw, SS	8		McMaster-Carr's 92196A269	
201	Purchased	#10-32 x 3/4 Socket Head Cap Screw, SS	4		McMaster-Carr's 92196A272	
124	7102-066 (Sh.63)	TOP COVER STRIP IV	1			
123	7102-066 (Sh.62)	TOP COVER STRIP II	1			
72	7102-066 (Sh.27)	MIDDLE SECTION TOP LEFT PLATE	1			
55	7102-066 (Sh.70)	2" TUBE CLAMP HALF	4			
46	7102-066 (Sh.71)	SHORT BRACKET	1			
45	7102-066 (Sh.71)	LONG BRACKET	1			
5	7102-066 (Sh.6)	MIDDLE SECTION TOP LEFT PLATE SUB-ASM	X			

 		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES:</p> <p>TOLERANCES ON:</p> <p>.0 ± .02</p> <p>.00 ± .010</p> <p>.000 ± .005</p> <p>FRACTIONS ± 1/32</p> <p>ANGLES ± 0.5°</p> <p>ALL SURFACES </p>		<div><div><div>CORNELL UNIVERSITY</div><div></div><div>CORNELL UNIVERSITY</div><div>Floyd R. Newman Laboratory</div><div>Ithaca, NY 14853</div></div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div>								
SH NO. 6 OF 72	7102-066	ERL INJECTOR CRYOMODULE 80 K SHIELD MIDDLE SECTION TOP LEFT PLATE SUB-ASM										
	REV.	CHECKED BY: VM APPROVED BY: VM		DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE	D	7102-066 SH NO. 6 OF 72		REV.	






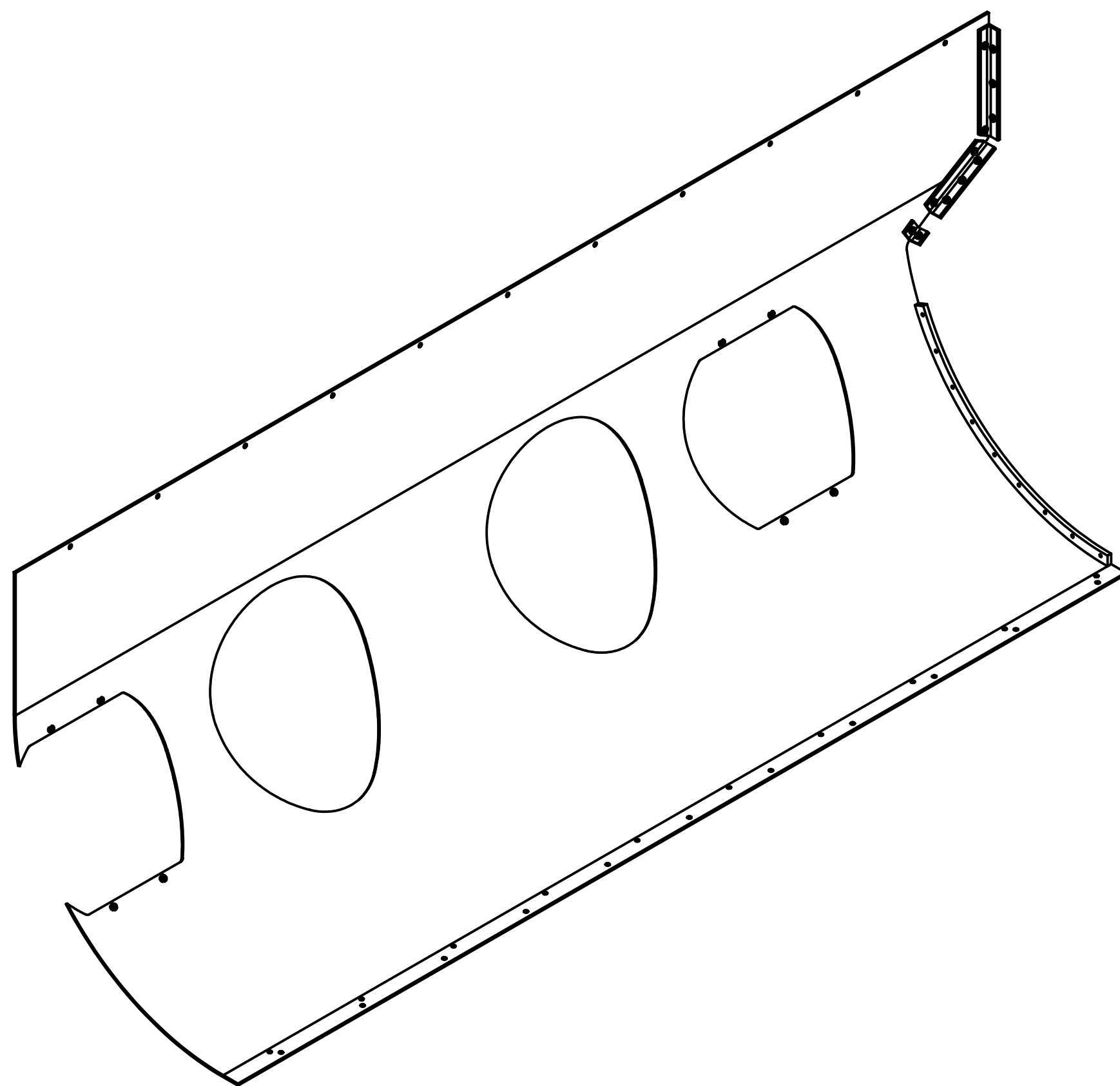
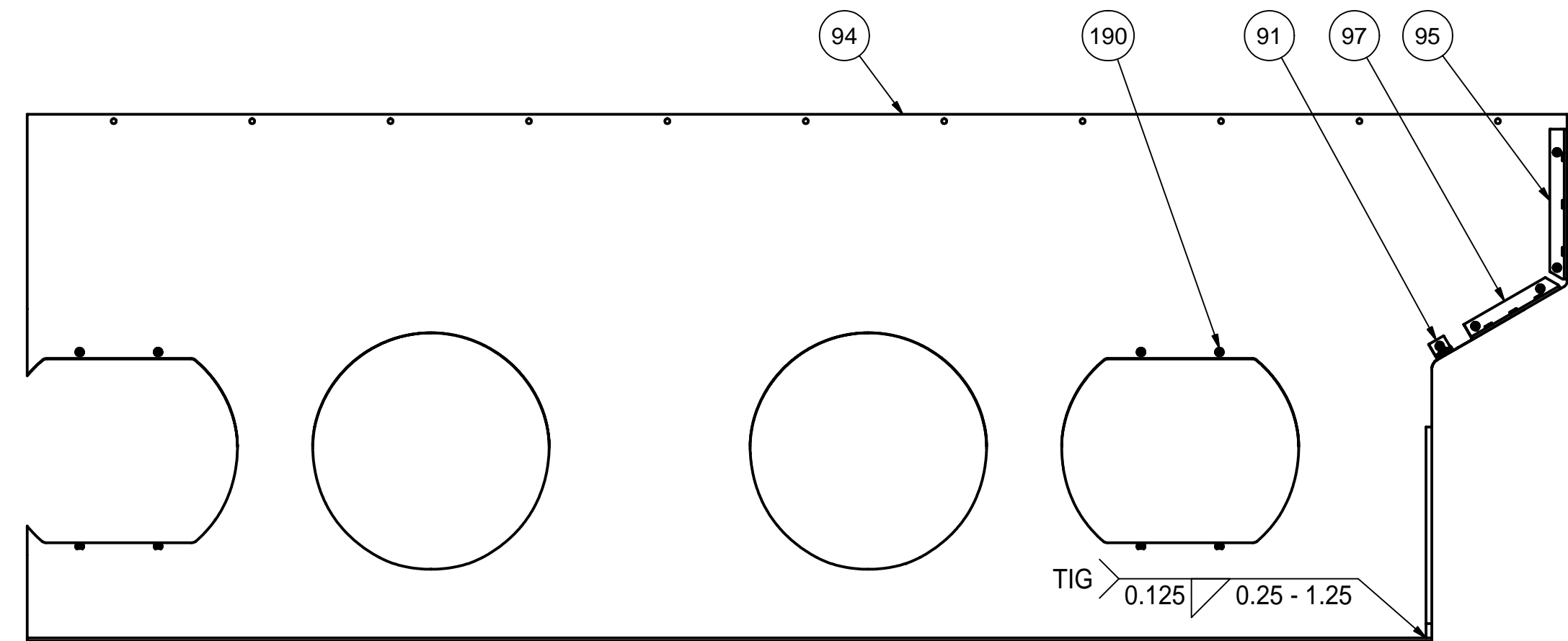
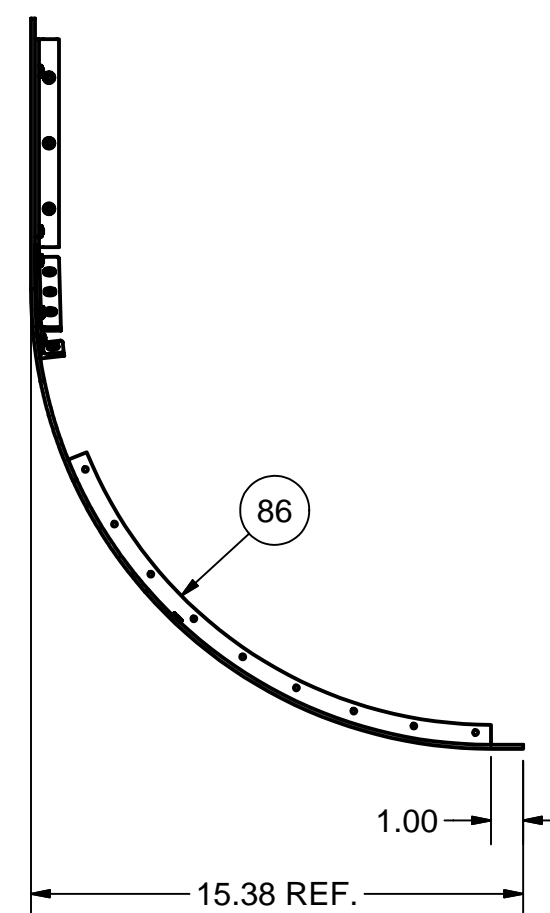
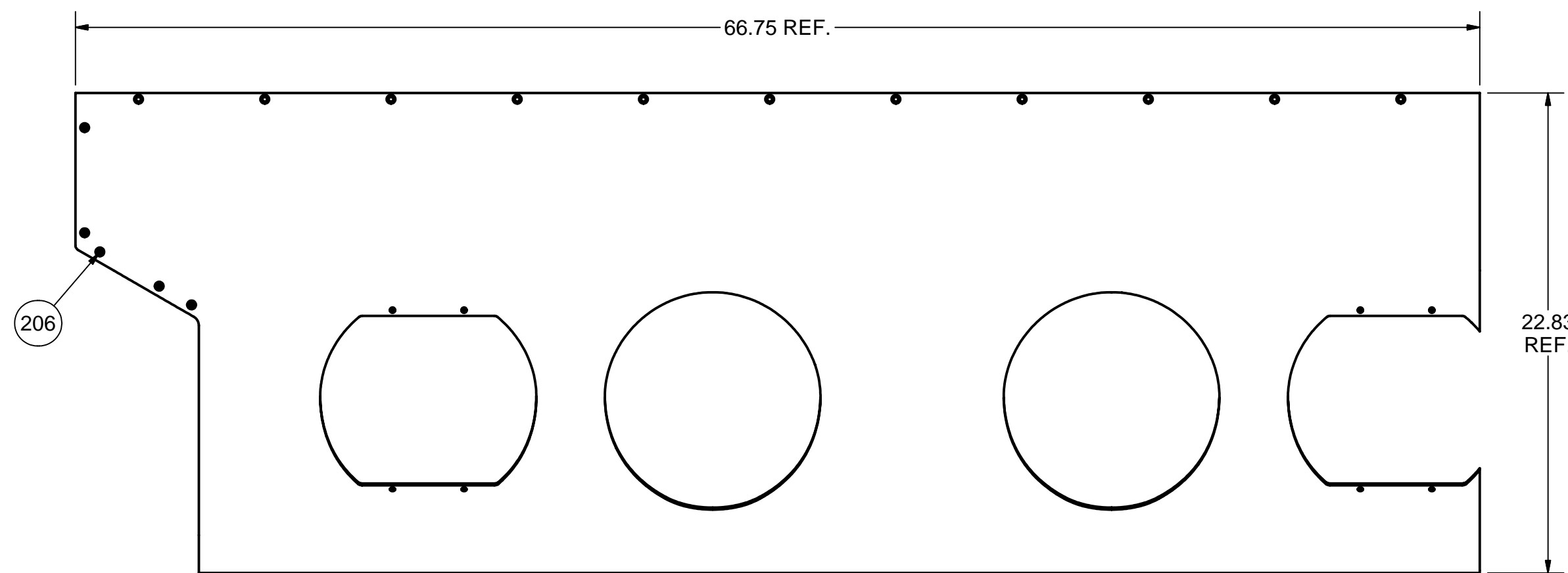


8 ENTRANCE SECTION RIGHT WALL SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 9
DFT. SCALE: 1:6
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.

206	Purchased	#10-32 x 3/8 Flat Head Hex Socket Cap Screw, SS	16			McMaster-Carr's 92210A301	
190	Purchased	10-32 PEM NUT, CLSS-032-3	8			St. Steel	
91	7102-066 (Sh.66)	ANGLE 7 SUB-ASM	1				
89	7102-066 (Sh.65)	ANGLE 6 SUB-ASM	1				
87	7102-066 (Sh.65)	ANGLE 5 SUB-ASM	1				
86	7102-066 (Sh.71)	QUARTER RING	1				
85	7102-066 (Sh.68)	BOTTOM STRIP 1	1				
84	7102-066 (Sh.33)	ENTRANCE SECTION RIGHT WALL SUB-ASM	1				
8	7102-066 (Sh.9)	ENTRANCE SECTION RIGHT WALL SUB-ASM	X				



		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
		QUANTITY										
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	<div>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES </div>		<div><div><div>CORNELL UNIVERSITY</div><div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div>								
SH. NO. 9 OF 72	7102-066	<div>ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION RIGHT WALL SUB-ASM</div>										
	REV.	CHECKED BY: VM		DRAWN BY: vm	DRAWN FOR: M.Liepe	DATE: 8/6/2007	SCALE	D	7102-066		REV.	
		APPROVED BY: VM		SH. NO. 9 OF 72								

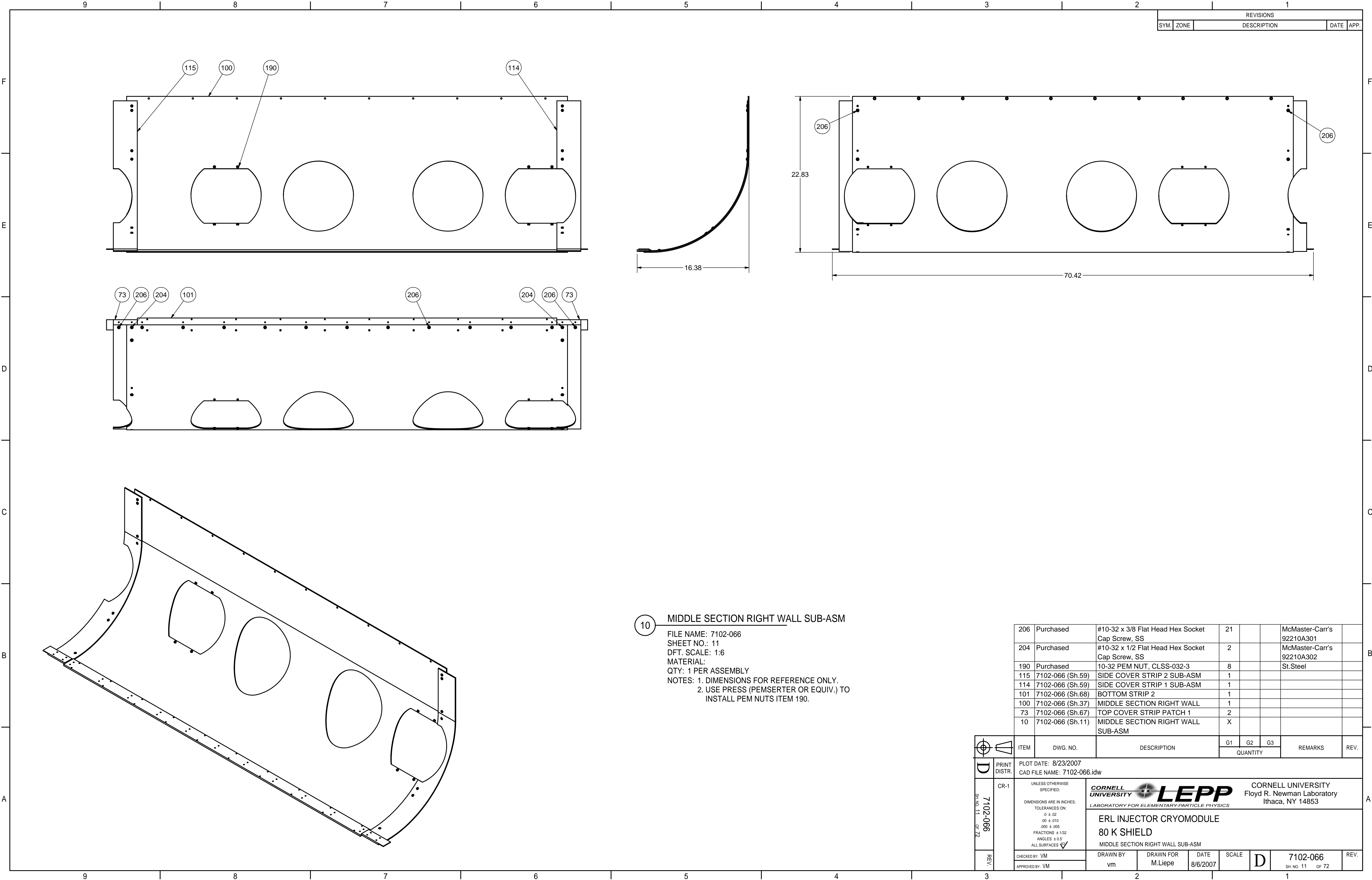


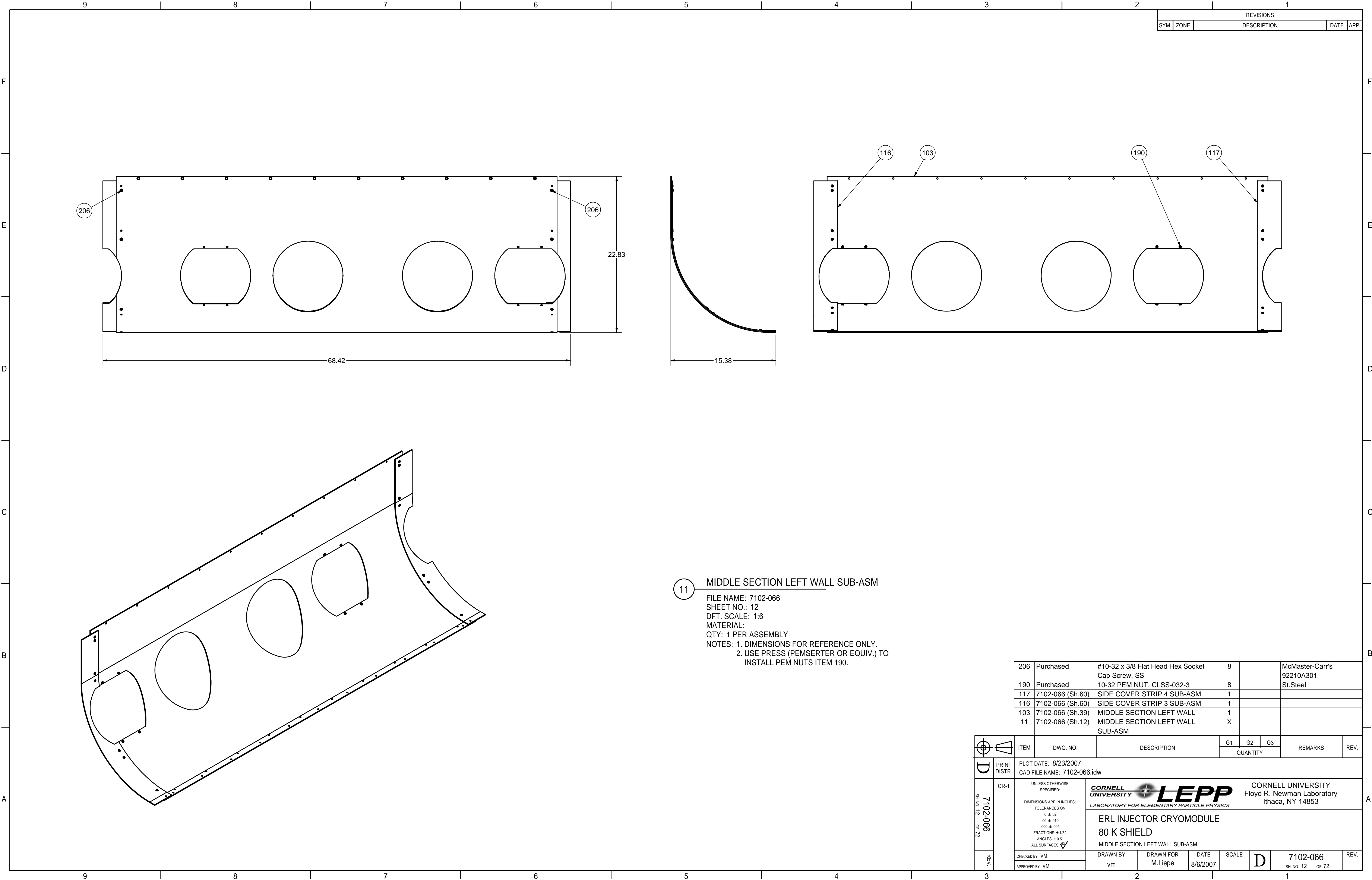
9 ENTRANCE SECTION LEFT WALL SUB-ASM

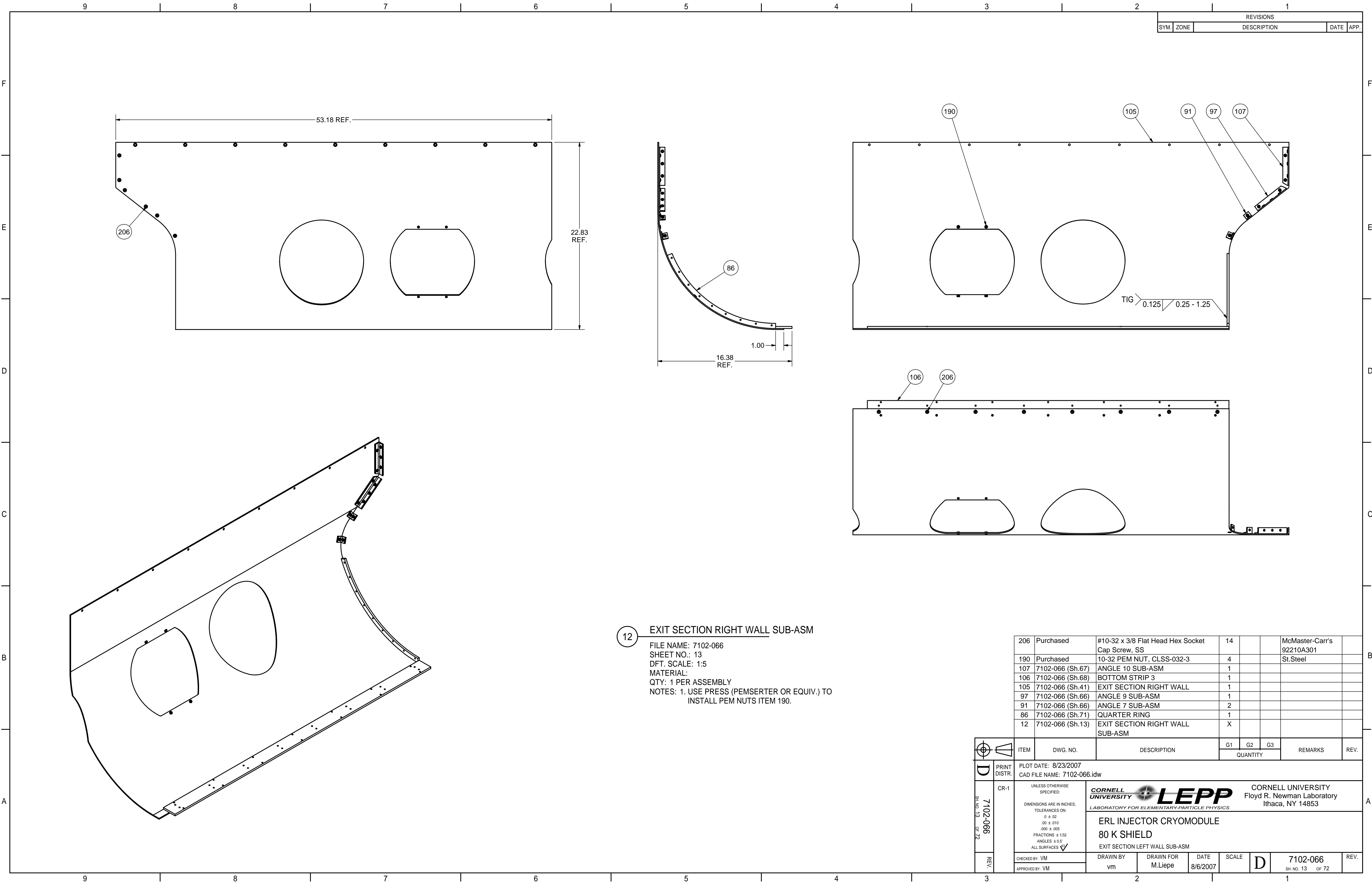
FILE NAME: 7102-066
SHEET NO.: 10
DFT. SCALE: 1:6
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.

206	Purchased	#10-32 x 3/8 Flat Head Hex Socket Cap Screw, SS	5			McMaster-Carr's 92210A301	
190	Purchased	10-32 PEM NUT, CLSS-032-3	8			St.Steel	
97	7102-066 (Sh.66)	ANGLE 9 SUB-ASM	1				
95	7102-066 (Sh.66)	ANGLE 8 SUB-ASM	1				
94	7102-066 (Sh.35)	ENTRANCE SECTION LEFT WALL	1				
91	7102-066 (Sh.66)	ANGLE 7 SUB-ASM	1				
86	7102-066 (Sh.71)	QUARTER RING	1				
9	7102-066 (Sh.10)	ENTRANCE SECTION LEFT WALL SUB-ASM	X				

<div><div></div><div></div></div>		ITEM		DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.			
								QUANTITY							
D		PRINT DISTR.		PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw											
SH. NO. 10 OF 72		CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 			<div><div><div>CORNELL UNIVERSITY</div><div></div></div><div><div>LEPP</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div></div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>								
							ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION LEFT WALL SUB-ASM								
REV.		CHECKED BY: VM			DRAWN BY		DRAWN FOR		DATE		SCALE		D	7102-066 SH. NO. 10 OF 72	REV.
		APPROVED BY: VM			vm		M.Liepe		8/6/2007						



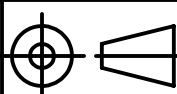



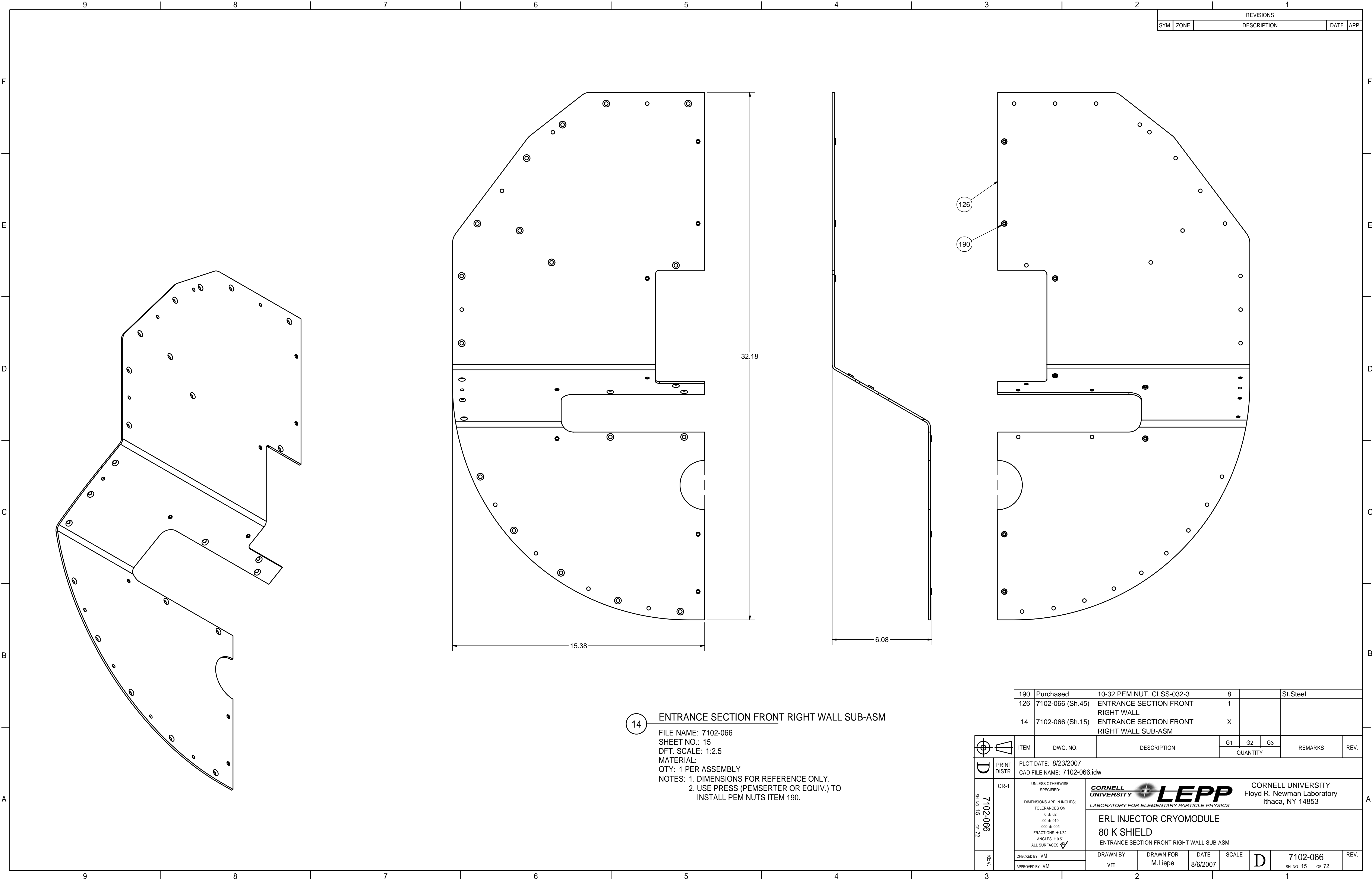


12 EXIT SECTION RIGHT WALL SUB-ASM

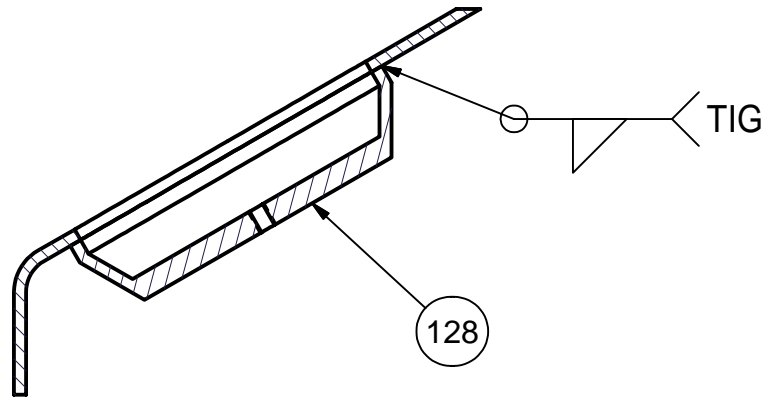
FILE NAME: 7102-066
SHEET NO.: 13
DFT. SCALE: 1:5
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.

206	Purchased	#10-32 x 3/8 Flat Head Hex Socket Cap Screw, SS	14			McMaster-Carr's 92210A301	
190	Purchased	10-32 PEM NUT, CLSS-032-3	4			St. Steel	
107	7102-066 (Sh.67)	ANGLE 10 SUB-ASM	1				
106	7102-066 (Sh.68)	BOTTOM STRIP 3	1				
105	7102-066 (Sh.41)	EXIT SECTION RIGHT WALL	1				
97	7102-066 (Sh.66)	ANGLE 9 SUB-ASM	1				
91	7102-066 (Sh.66)	ANGLE 7 SUB-ASM	2				
86	7102-066 (Sh.71)	QUARTER RING	1				
12	7102-066 (Sh.13)	EXIT SECTION RIGHT WALL SUB-ASM	X				

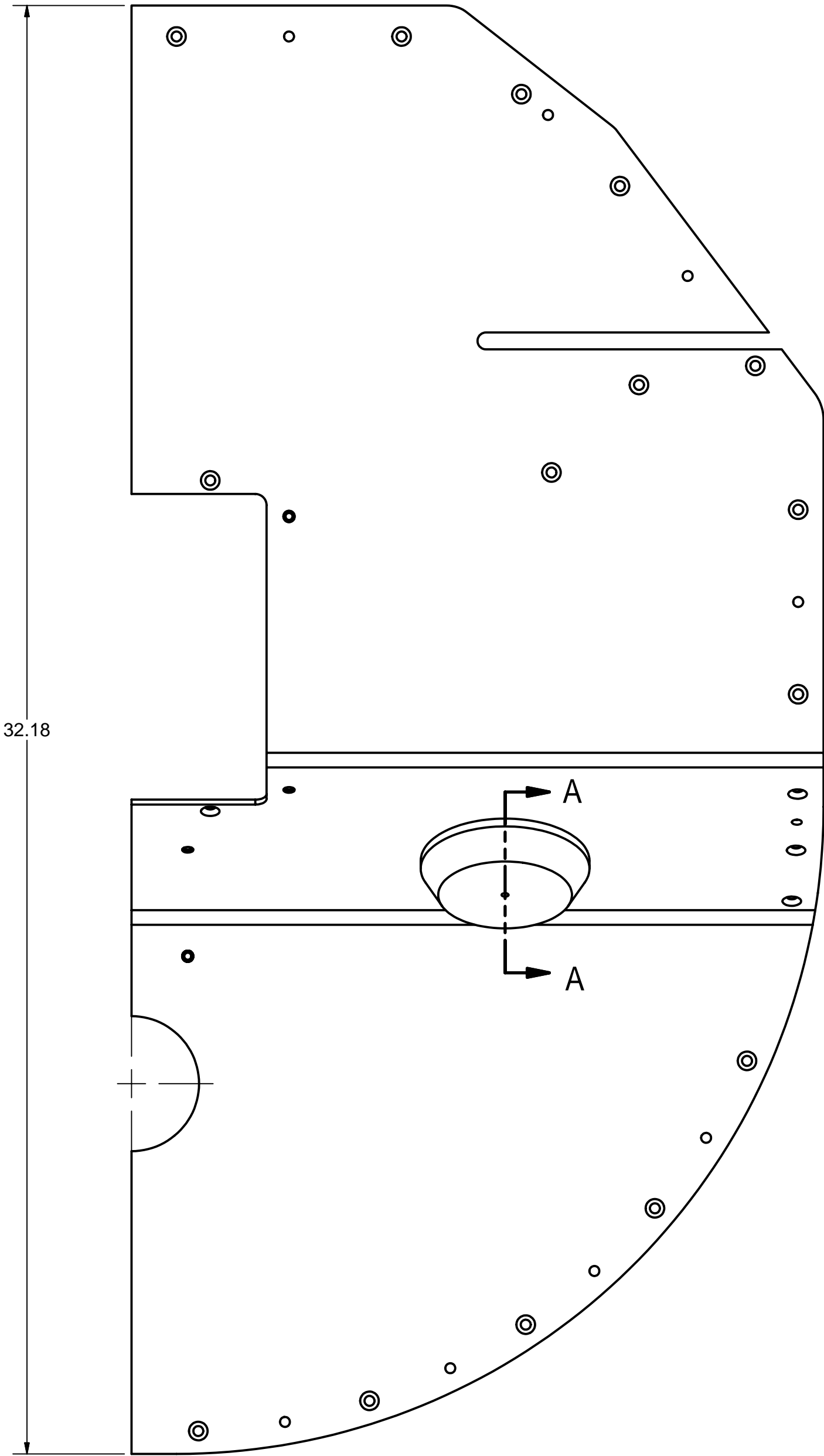
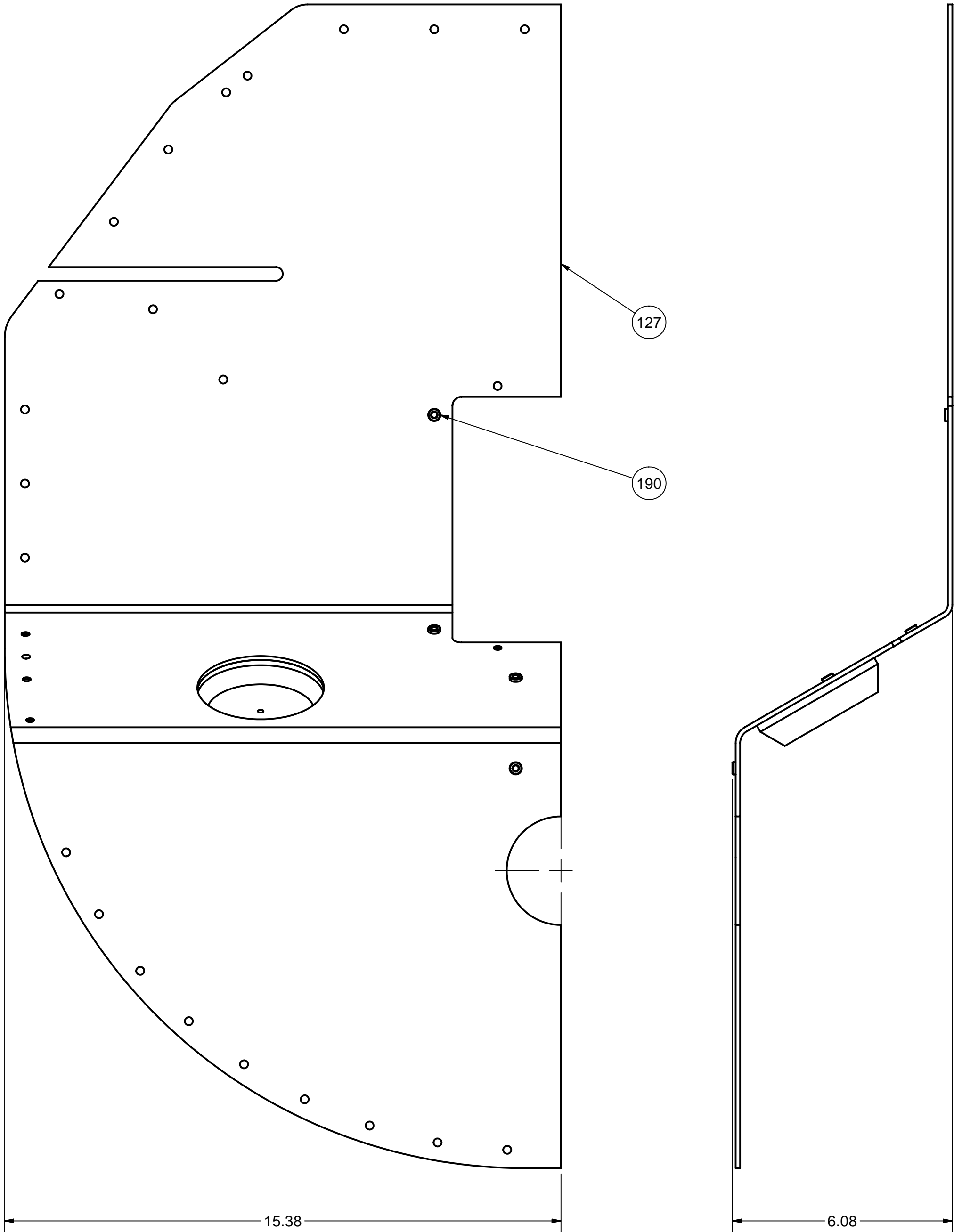
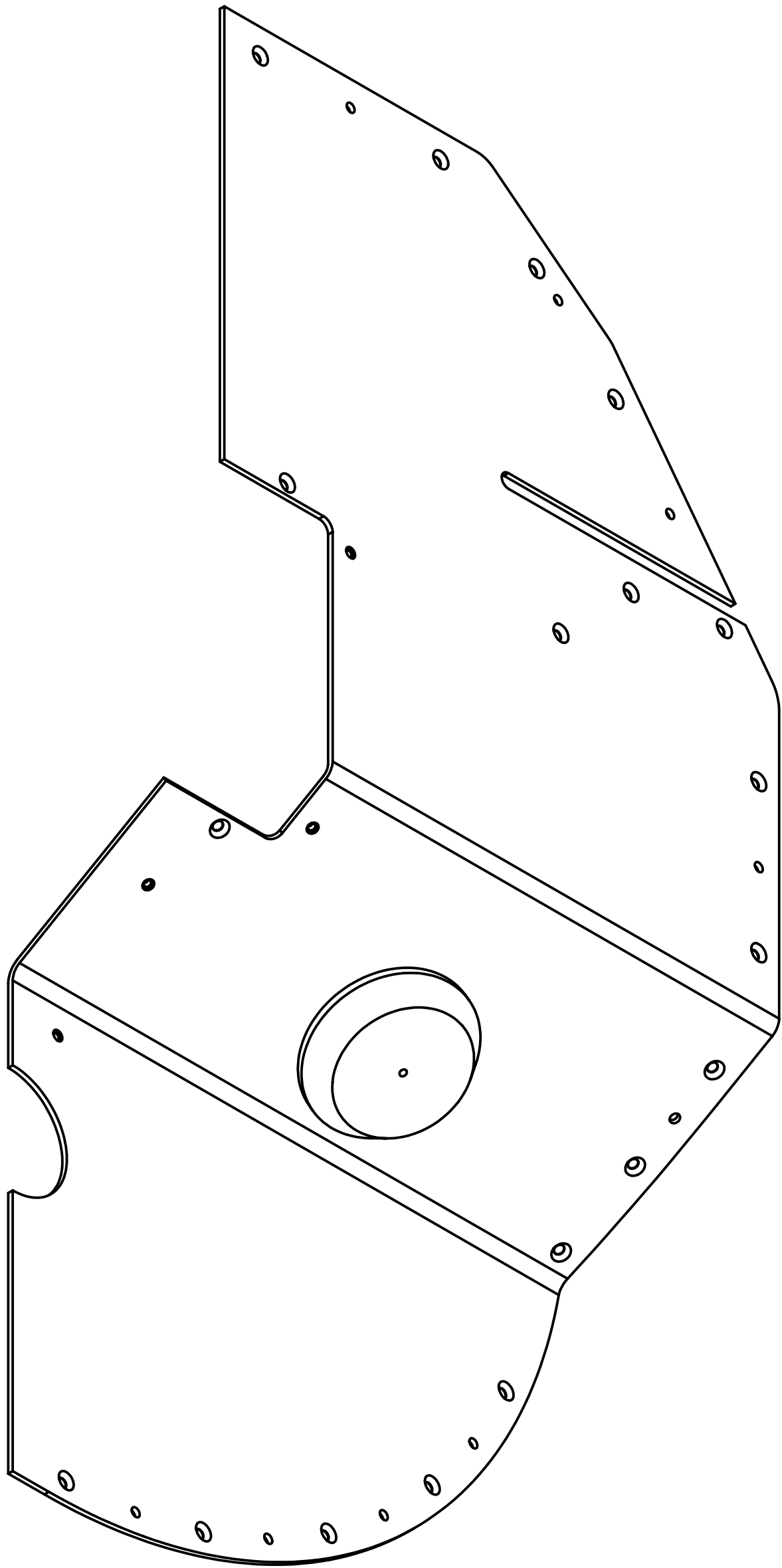
		ITEM		DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
									QUANTITY				
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw											
	7102-066 SH. NO. 13 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES ✓		<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD EXIT SECTION LEFT WALL SUB-ASM</div>								
CHECKED BY: VM					DRAWN BY		DRAWN FOR		DATE		SCALE		D
REV.		APPROVED BY: VM		vm		M.Liepe		8/6/2007					



REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

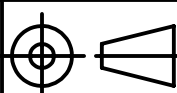




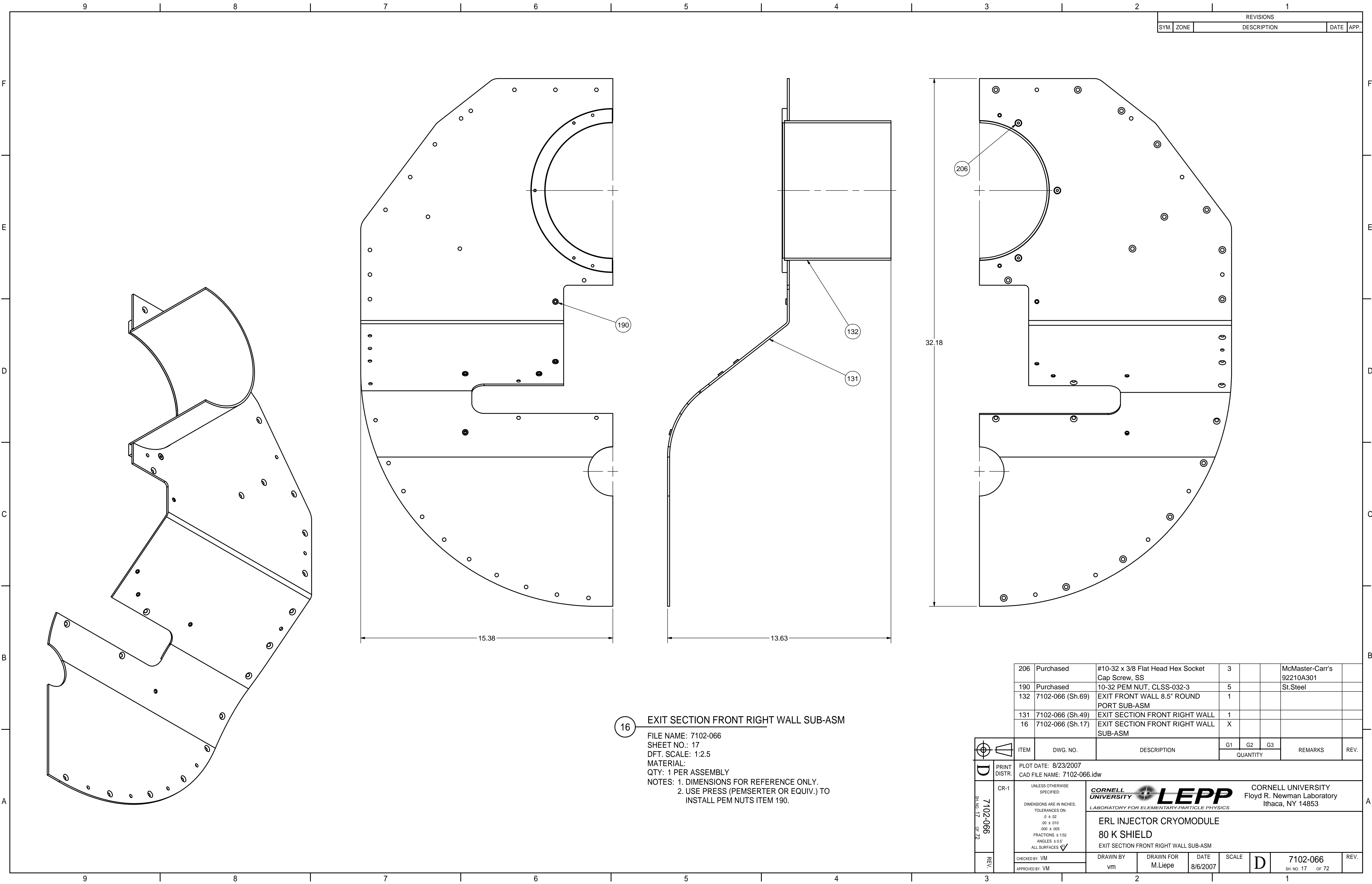
SECTION A-A
SCALE 1:2



- 15
- ENTRANCE SECTION FRONT LEFT WALL SUB-ASM
- FILE NAME: 7102-066
SHEET NO.: 16
DFT. SCALE: 1:2.5
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. DIMENSIONS FOR REFERENCE ONLY.
2. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.

190	Purchased	10-32 PEM NUT, CLSS-032-3	4			St.Steel	
128	7102-066 (Sh.69)	FRONT WALL CAP	1				
127	7102-066 (Sh.47)	ENTRANCE SECTION FRONT LEFT WALL	1				
15	7102-066 (Sh.16)	ENTRANCE SECTION FRONT LEFT WALL SUB-ASM	X				




		ITEM		DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
									QUANTITY				
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw											
7102-066 SH. NO. 16 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED:		<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>									
		DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 											
				ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION FRONT LEFT WALL SUB-ASM									
REV.	CHECKED BY: VM	DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE		D	7102-066		REV.
	APPROVED BY: VM	SH. NO. 16 OF 72											

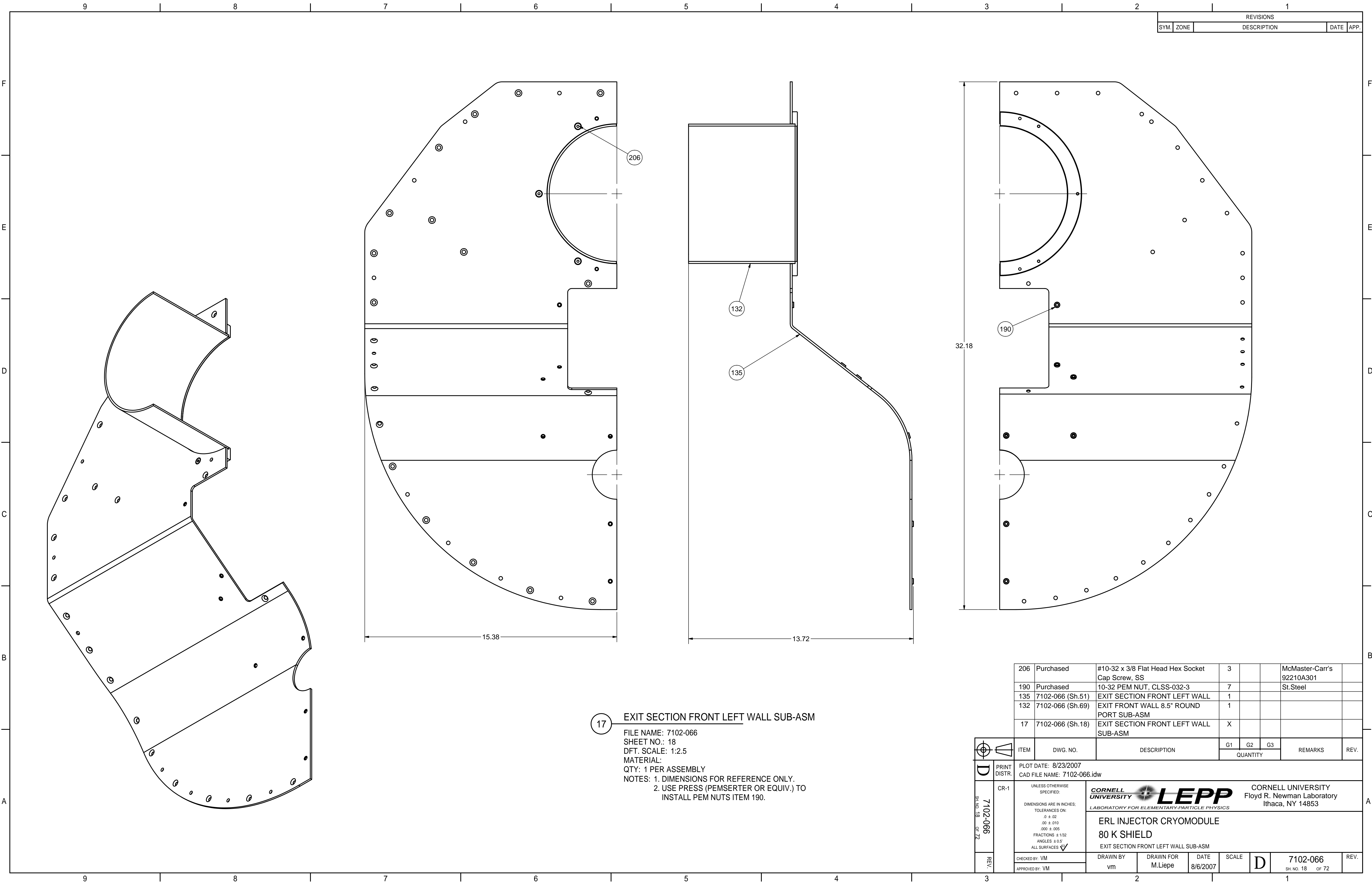


16 EXIT SECTION FRONT RIGHT WALL SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 17
DFT. SCALE: 1:2.5
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. DIMENSIONS FOR REFERENCE ONLY.
2. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.

206	Purchased	#10-32 x 3/8 Flat Head Hex Socket Cap Screw, SS	3			McMaster-Carr's 92210A301	
190	Purchased	10-32 PEM NUT, CLSS-032-3	5			St. Steel	
132	7102-066 (Sh.69)	EXIT FRONT WALL 8.5" ROUND PORT SUB-ASM	1				
131	7102-066 (Sh.49)	EXIT SECTION FRONT RIGHT WALL SUB-ASM	1				
16	7102-066 (Sh.17)	EXIT SECTION FRONT RIGHT WALL SUB-ASM	X				






		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
					QUANTITY				
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw							
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD EXIT SECTION FRONT RIGHT WALL SUB-ASM</div>					
7102-066 SH. NO. 17 OF 72	REV.	CHECKED BY: VM	DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE	D	7102-066 SH. NO. 17 OF 72	REV.
	APPROVED BY: VM								



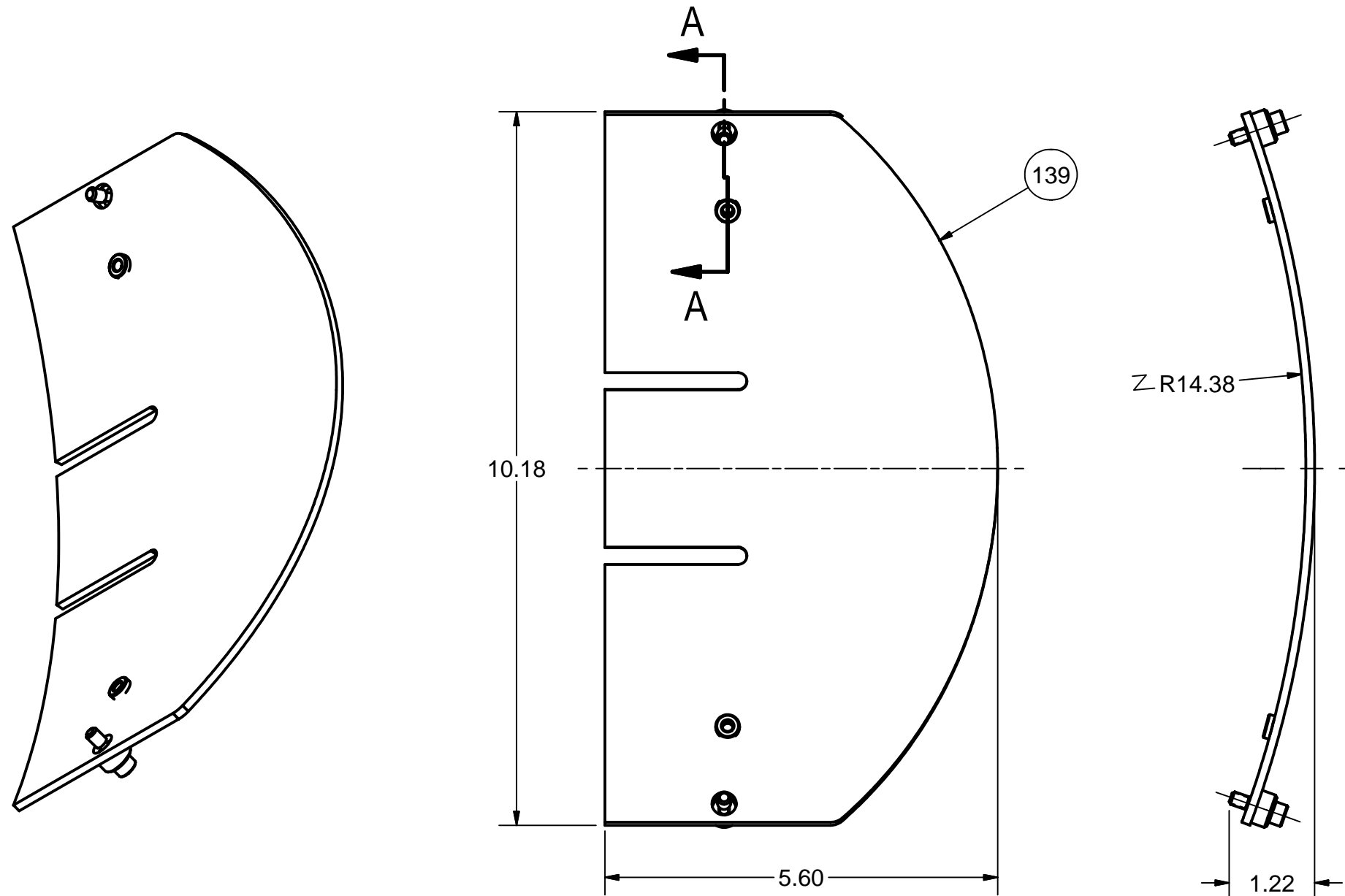
17 EXIT SECTION FRONT LEFT WALL SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 18
DFT. SCALE: 1:2.5
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. DIMENSIONS FOR REFERENCE ONLY.
2. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.

206	Purchased	#10-32 x 3/8 Flat Head Hex Socket Cap Screw, SS	3			McMaster-Carr's 92210A301	
190	Purchased	10-32 PEM NUT, CLSS-032-3	7			St. Steel	
135	7102-066 (Sh.51)	EXIT SECTION FRONT LEFT WALL	1				
132	7102-066 (Sh.69)	EXIT FRONT WALL 8.5" ROUND PORT SUB-ASM	1				
17	7102-066 (Sh.18)	EXIT SECTION FRONT LEFT WALL SUB-ASM	X				

		ITEM		DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
									QUANTITY				
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw											
	7102-066 SH. NO. 18 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div>CORNELL UNIVERSITY  LEPP CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div>								
ERL INJECTOR CRYOMODULE 80 K SHIELD EXIT SECTION FRONT LEFT WALL SUB-ASM													
REV.		CHECKED BY: VM	DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066 SH. NO. 18 OF 72	REV.				
		APPROVED BY: VM	vm	M.Liepe	8/6/2007								

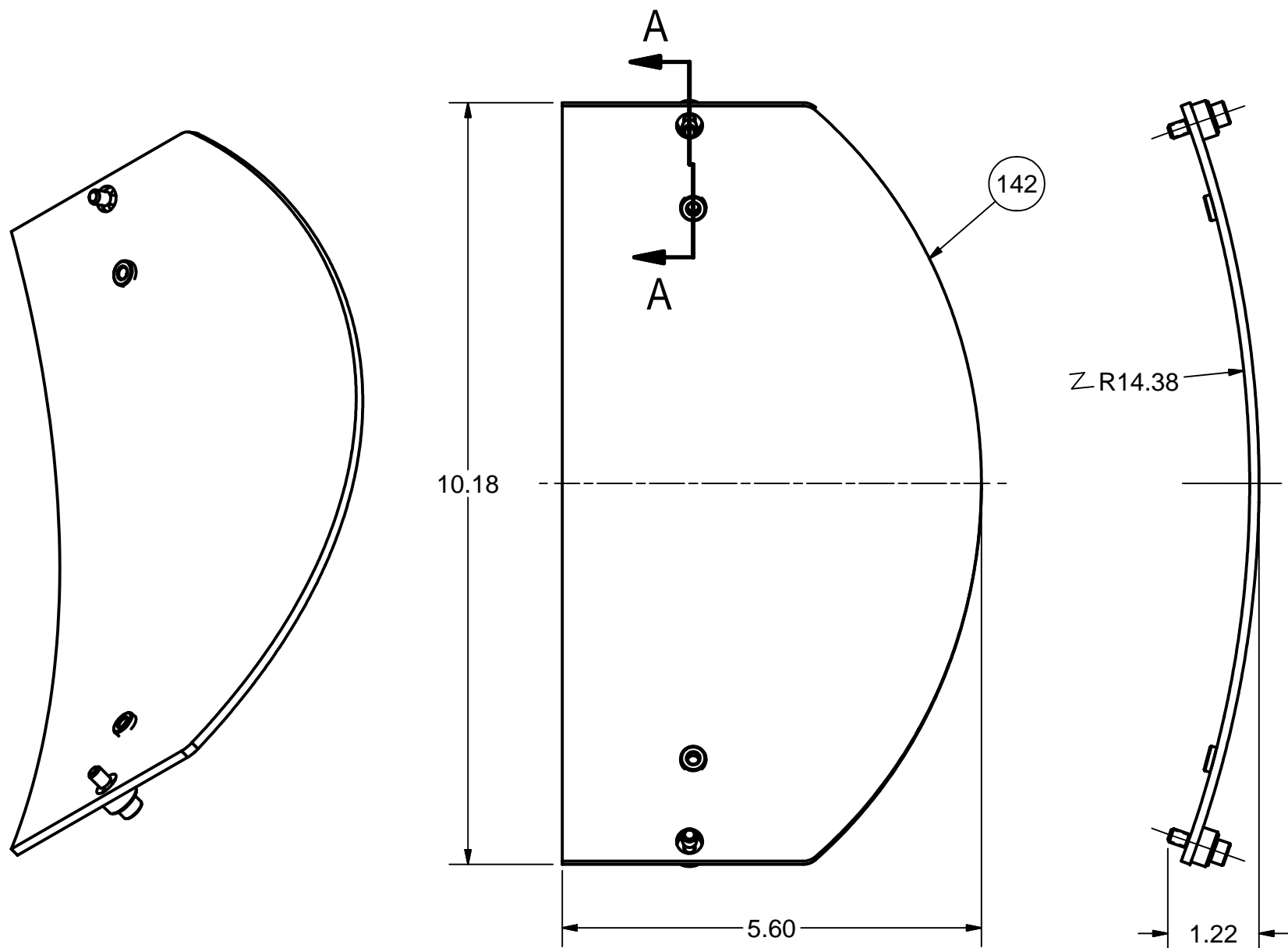
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	B7	5.60 dim was 5.62 (no model changes required)	8/23/07	TIO



18 RIGHT TUNER PORT WIRE COVER SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 19
DFT. SCALE: 1:2
MATERIAL:
QTY: 10 PER ASSEMBLY
NOTES: 1. DIMENSIONS FOR REFERENCE ONLY.
2. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.

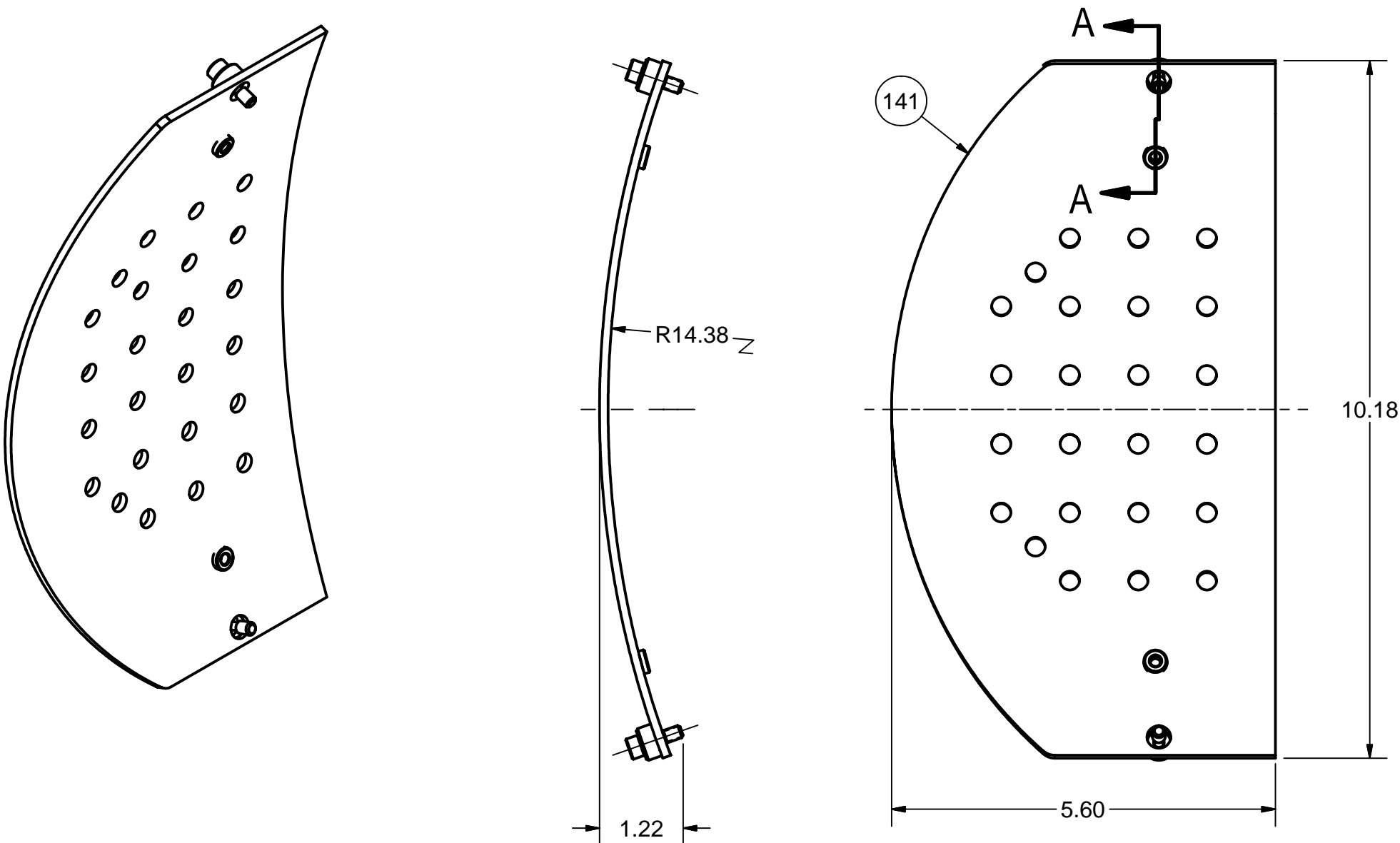
207	Purchased	#10-32 x 5/8 Panel Screw, SS	2		McMaster-Carr's 95966A419	
190	Purchased	10-32 PEM NUT, CLSS-032-3	2		St.Steel	
140	7102-066 (Sh.54)	TUNER COVER BOSS	2			
139	7102-066 (Sh.53)	RIGHT TUNER PORT WIRE COVER	1			
18	7102-066 (Sh.19)	RIGHT TUNER PORT WIRE COVER SUB-ASM	X			



207	Purchased	#10-32 x 5/8 Panel Screw, SS	2		McMaster-Carr's 95966A419	
190	Purchased	10-32 PEM NUT, CLSS-032-3	2		St.Steel	
142	7102-066 (Sh.53)	LEFT TUNER PORT BLANK COVER	1			
140	7102-066 (Sh.54)	TUNER COVER BOSS	2			
20	7102-066 (Sh.19)	LEFT TUNER PORT BLANK COVER SUB-ASM	X			

20 LEFT TUNER PORT BLANK COVER SUB-ASM

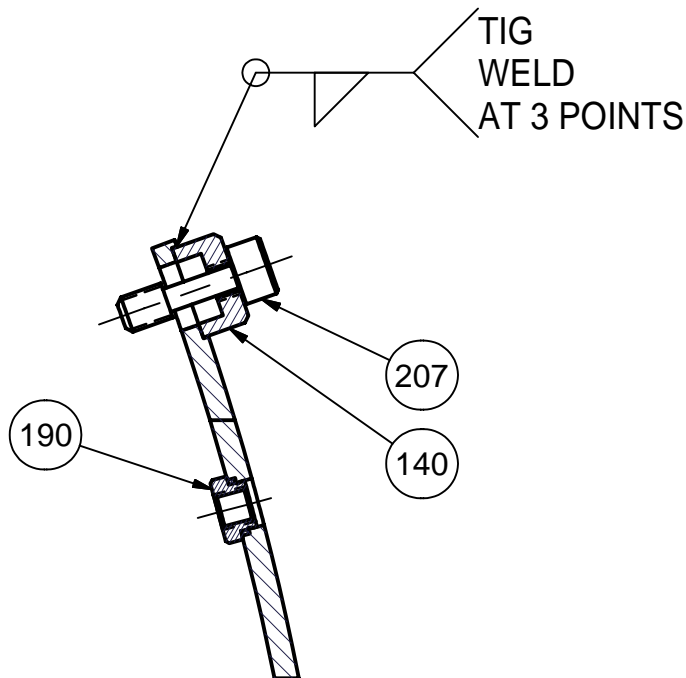
FILE NAME: 7102-066
SHEET NO.: 19
DFT. SCALE: 1:2
MATERIAL:
QTY: 5 PER ASSEMBLY
NOTES: 1. DIMENSIONS FOR REFERENCE ONLY.
2. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.



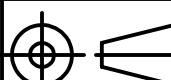




19 RIGHT TUNER PORT CABLES COVER SUB-ASM

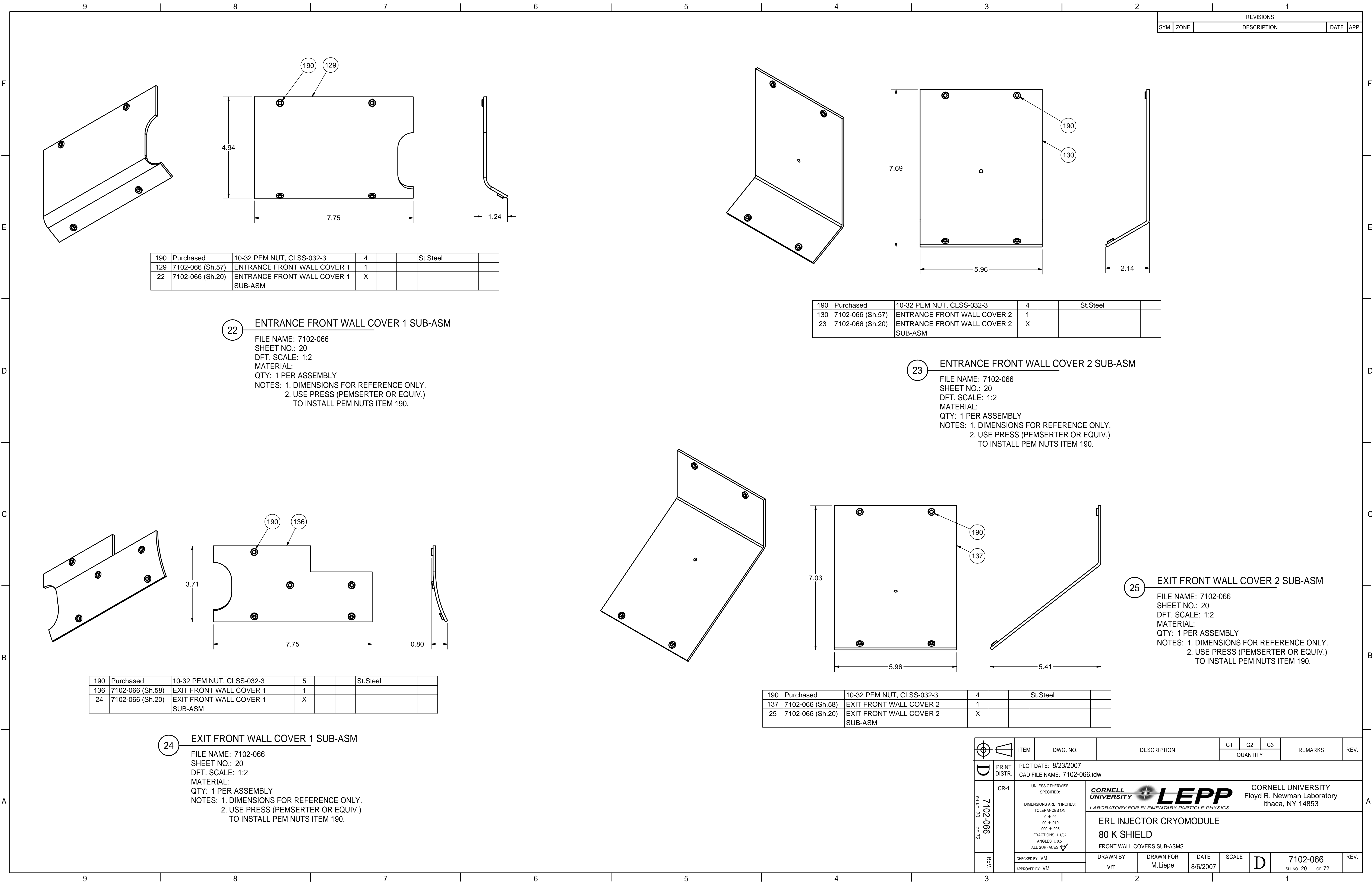
FILE NAME: 7102-066
SHEET NO.: 19
DFT. SCALE: 1:2
MATERIAL:
QTY: 5 PER ASSEMBLY
NOTES: 1. DIMENSIONS FOR REFERENCE ONLY.
2. USE PRESS (PEMSERTER OR EQUIV.) TO
INSTALL PEM NUTS ITEM 190.

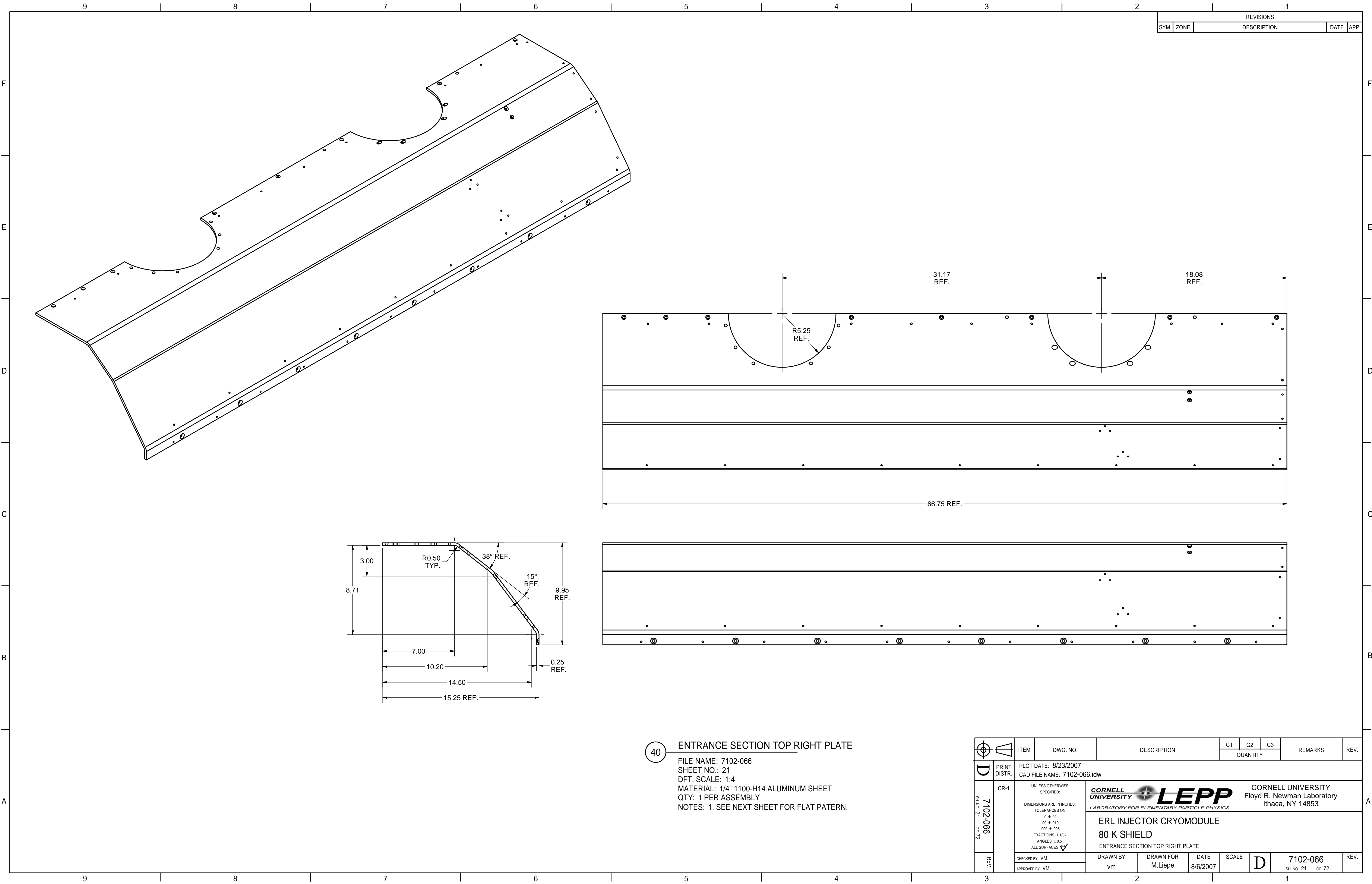
207	Purchased	#10-32 x 5/8 Panel Screw, SS	2		McMaster-Carr's 95966A419	
190	Purchased	10-32 PEM NUT, CLSS-032-3	2		St.Steel	
141	7102-066 (Sh.54)	RIGHT TUNER PORT CABLES COVER	1			
140	7102-066 (Sh.54)	TUNER COVER BOSS	2			
19	7102-066 (Sh.19)	RIGHT TUNER PORT CABLES COVER SUB-ASM	X			



SECTION A-A
SCALE 1 : 1

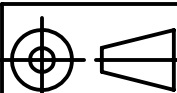
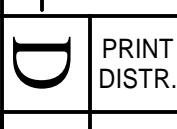


		ITEM	DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS		REV.	
		QUANTITY												
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw												
	CR-1	<div>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES </div>		<div><div><div>CORNELL UNIVERSITY</div><div> LEPP</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>										
7102-066 SH. NO. 19 OF 72		<div>ERL INJECTOR CRYOMODULE 80 K SHIELD TUNER PORTS COVERS SUB-ASMS</div>												
	REV.	CHECKED BY: VM		DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE D		7102-066 SH. NO. 19 OF 72		REV. A
	APPROVED BY: VM													

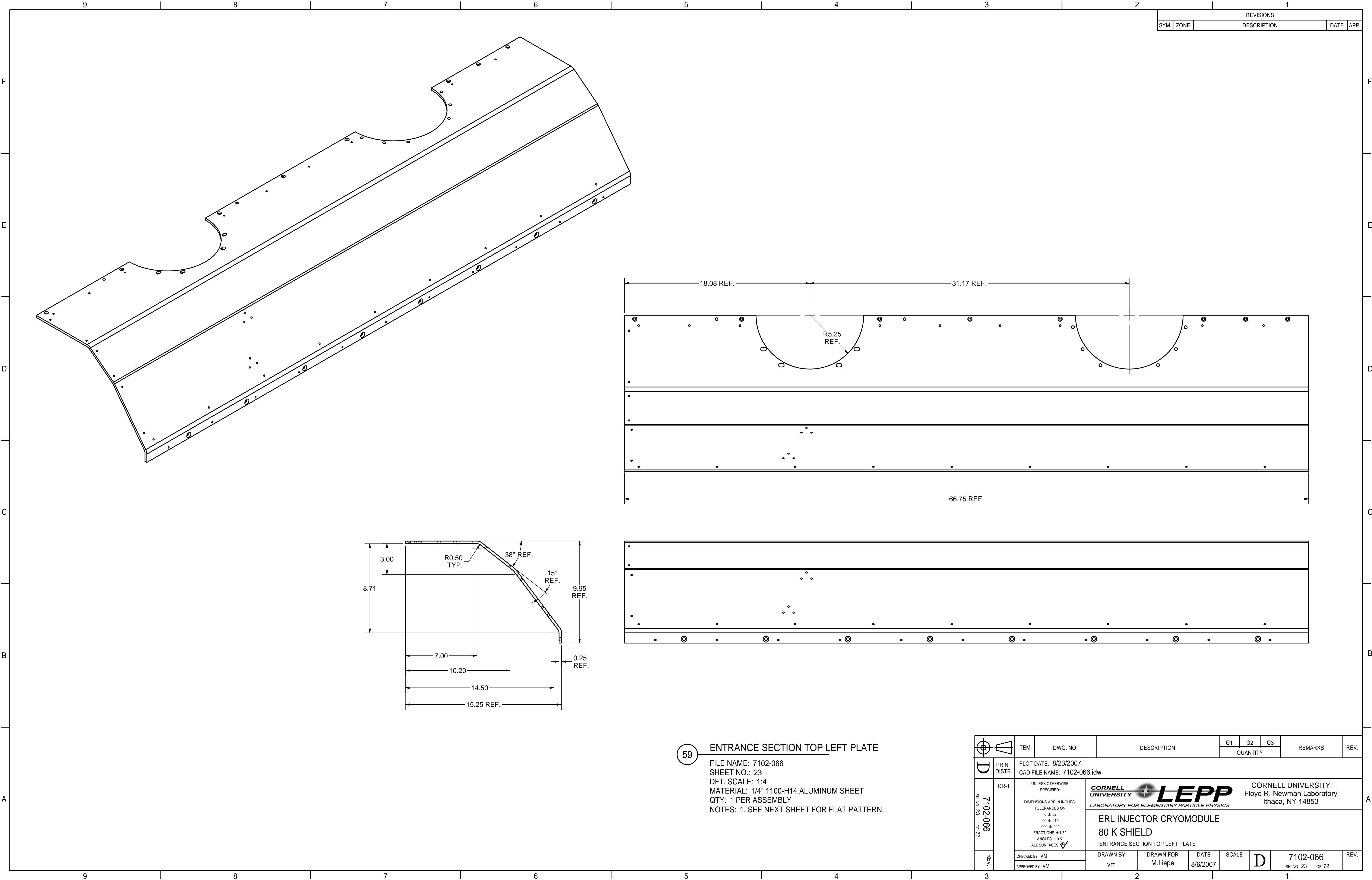




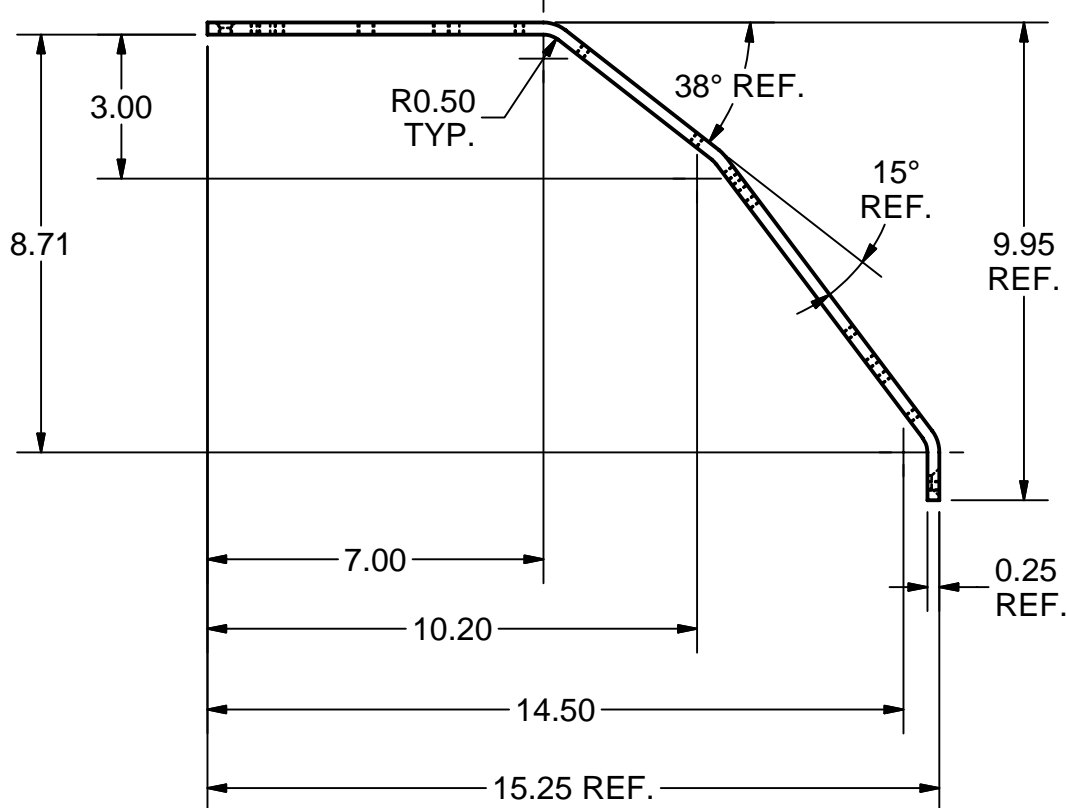
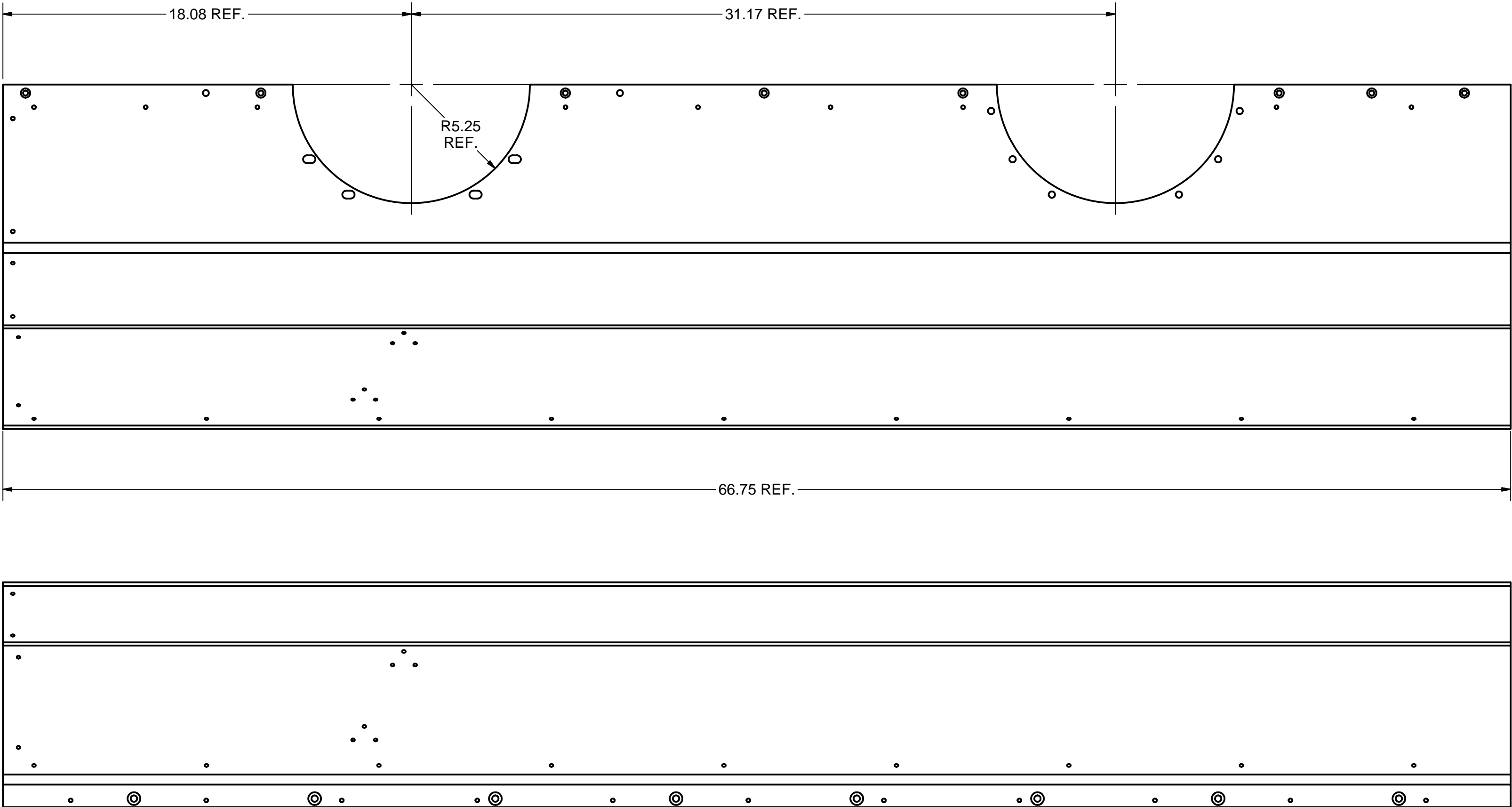
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

40 ENTRANCE SECTION TOP RIGHT PLATE
FILE NAME: 7102-066
SHEET NO.: 21
DFT. SCALE: 1:4
MATERIAL: 1/4" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN.






		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.	
		QUANTITY											
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw											
	CR-1	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES:</p> <p>TOLERANCES ON:</p> <p>.0 ± .02</p> <p>.00 ± .010</p> <p>.000 ± .005</p> <p>FRACTIONS ± 1/32</p> <p>ANGLES ± 0.5°</p> <p>ALL SURFACES </p>			<p>CORNELL UNIVERSITY  CORNELL UNIVERSITY</p> <p>Floyd R. Newman Laboratory</p> <p>Ithaca, NY 14853</p> <p>ERL INJECTOR CRYOMODULE</p> <p>80 K SHIELD</p> <p>ENTRANCE SECTION TOP RIGHT PLATE</p>								
SH. NO. 21 OF 72 7102-066	REV.	CHECKED BY: VM		DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE D		7102-066	REV.
		APPROVED BY: VM		SH. NO. 21 OF 72									

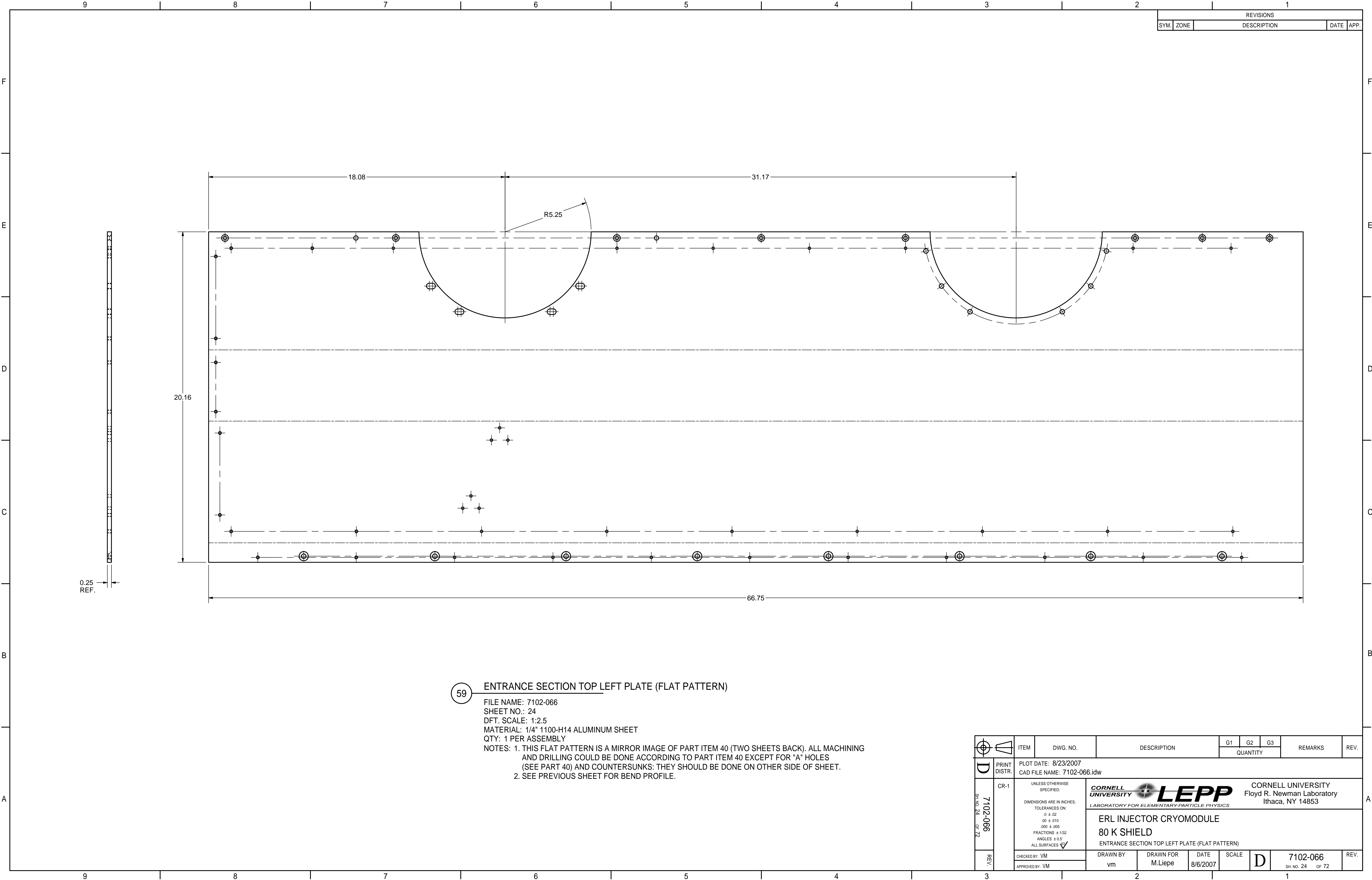


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



59 ENTRANCE SECTION TOP LEFT PLATE
FILE NAME: 7102-066
SHEET NO.: 23
DFT. SCALE: 1:4
MATERIAL: 1/4" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN.

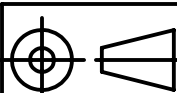




		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
		QUANTITY										
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES:</p> <p>TOLERANCES ON:</p> <p>.0 ± .02</p> <p>.00 ± .010</p> <p>.000 ± .005</p> <p>FRACTIONS ± 1/32</p> <p>ANGLES ± 0.5°</p> <p>ALL SURFACES </p>		<div><div><div>CORNELL UNIVERSITY</div><div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div>								
7102-066 SH. NO. 23 OF 72	REV.	CHECKED BY: VM		DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066		REV.	
		APPROVED BY: VM		vm	M.Liepe	8/6/2007			SH. NO. 23 OF 72			
		ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION TOP LEFT PLATE										

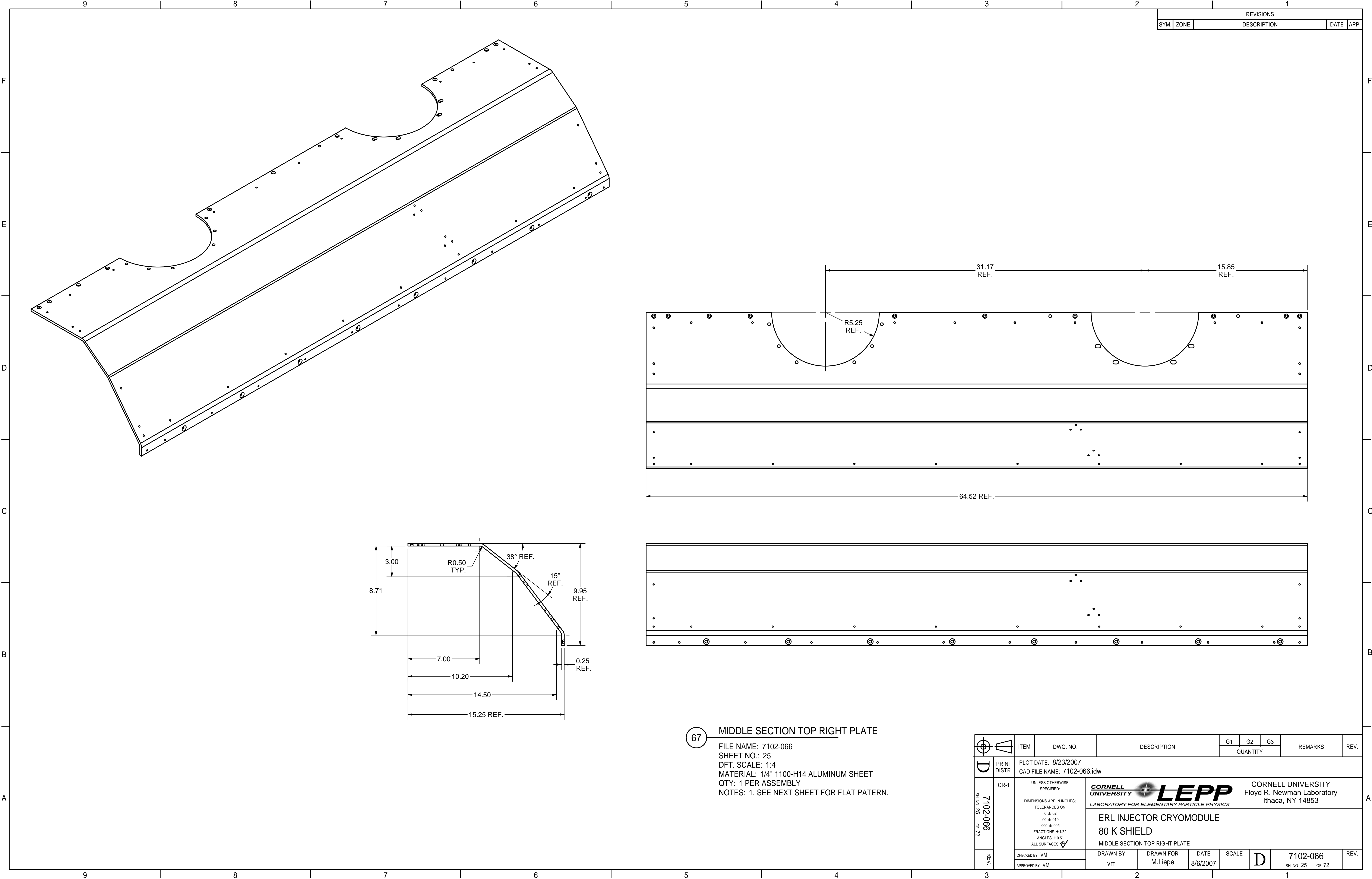


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

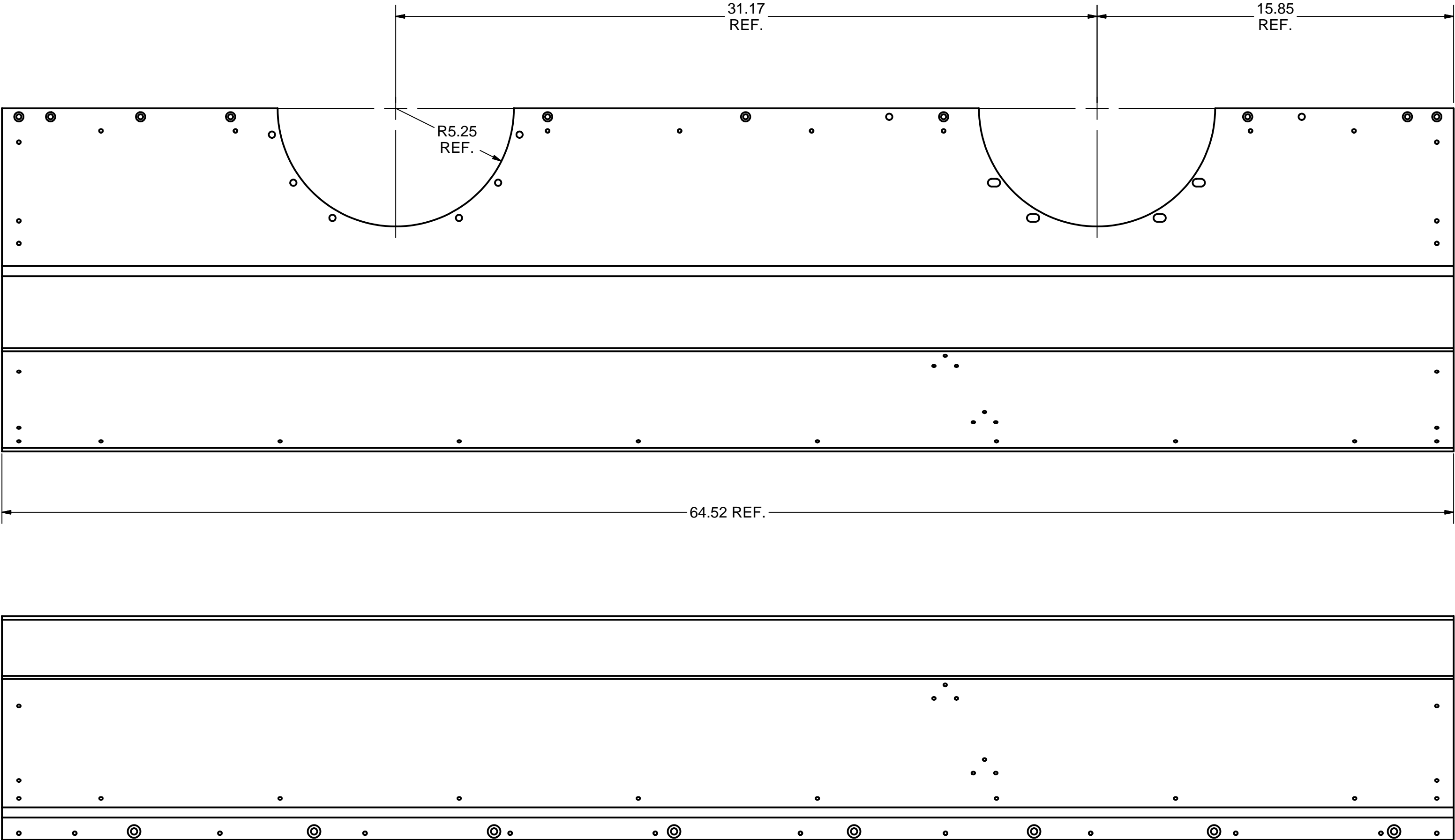
59 ENTRANCE SECTION TOP LEFT PLATE (FLAT PATTERN)

FILE NAME: 7102-066
SHEET NO.: 24
DFT. SCALE: 1:2.5
MATERIAL: 1/4" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. THIS FLAT PATTERN IS A MIRROR IMAGE OF PART ITEM 40 (TWO SHEETS BACK). ALL MACHINING AND DRILLING COULD BE DONE ACCORDING TO PART ITEM 40 EXCEPT FOR "A" HOLES (SEE PART 40) AND COUNTERSUNKS: THEY SHOULD BE DONE ON OTHER SIDE OF SHEET.
2. SEE PREVIOUS SHEET FOR BEND PROFILE.


		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
		QUANTITY										
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	<div>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES </div>		<div><div><div>CORNELL UNIVERSITY</div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION TOP LEFT PLATE (FLAT PATTERN)</div>								
SH. NO. 24 OF 72 7102-066	REV.	CHECKED BY: VM		DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066		REV.	
	APPROVED BY: VM		vm	M.Liepe	8/6/2007				SH. NO. 24 OF 72			



REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

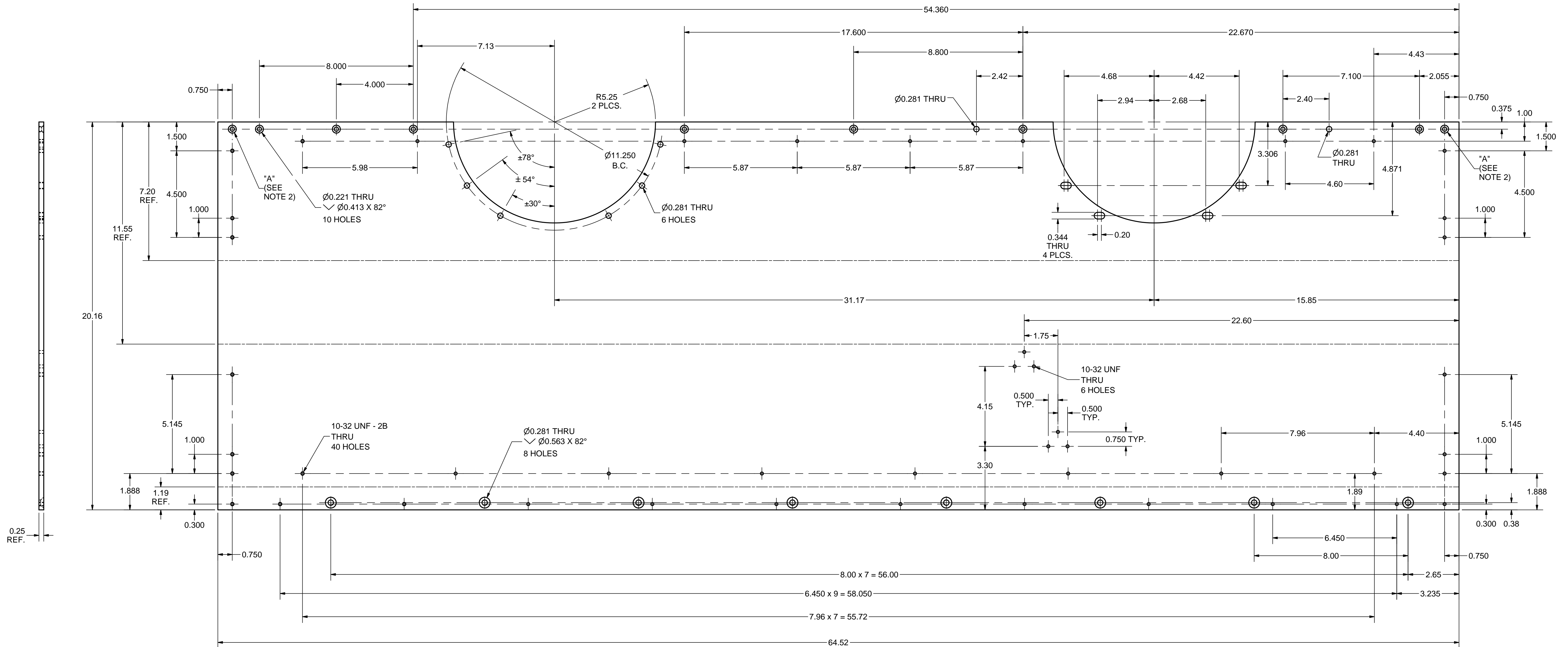
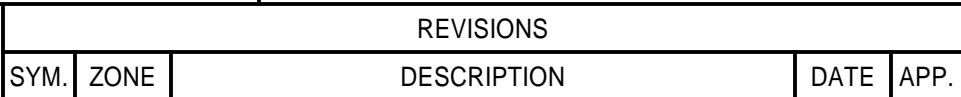


67 MIDDLE SECTION TOP RIGHT PLATE
FILE NAME: 7102-066
SHEET NO.: 25
DFT. SCALE: 1:4
MATERIAL: 1/4" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN.

		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.	
					QUANTITY					
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw								
	CR-1	<div>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES </div>				<div><div> LEPP</div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div>				
7102-066 SH. NO. 25 OF 72		<div>ERL INJECTOR CRYOMODULE 80 K SHIELD MIDDLE SECTION TOP RIGHT PLATE</div>								
REV.	CHECKED BY: VM	DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007	SCALE	D	7102-066 SH. NO. 25 OF 72	REV.
	APPROVED BY: VM									


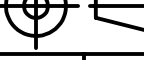

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FLOYD R. NEWMAN LABORATORY
ITHACA, NY 14853

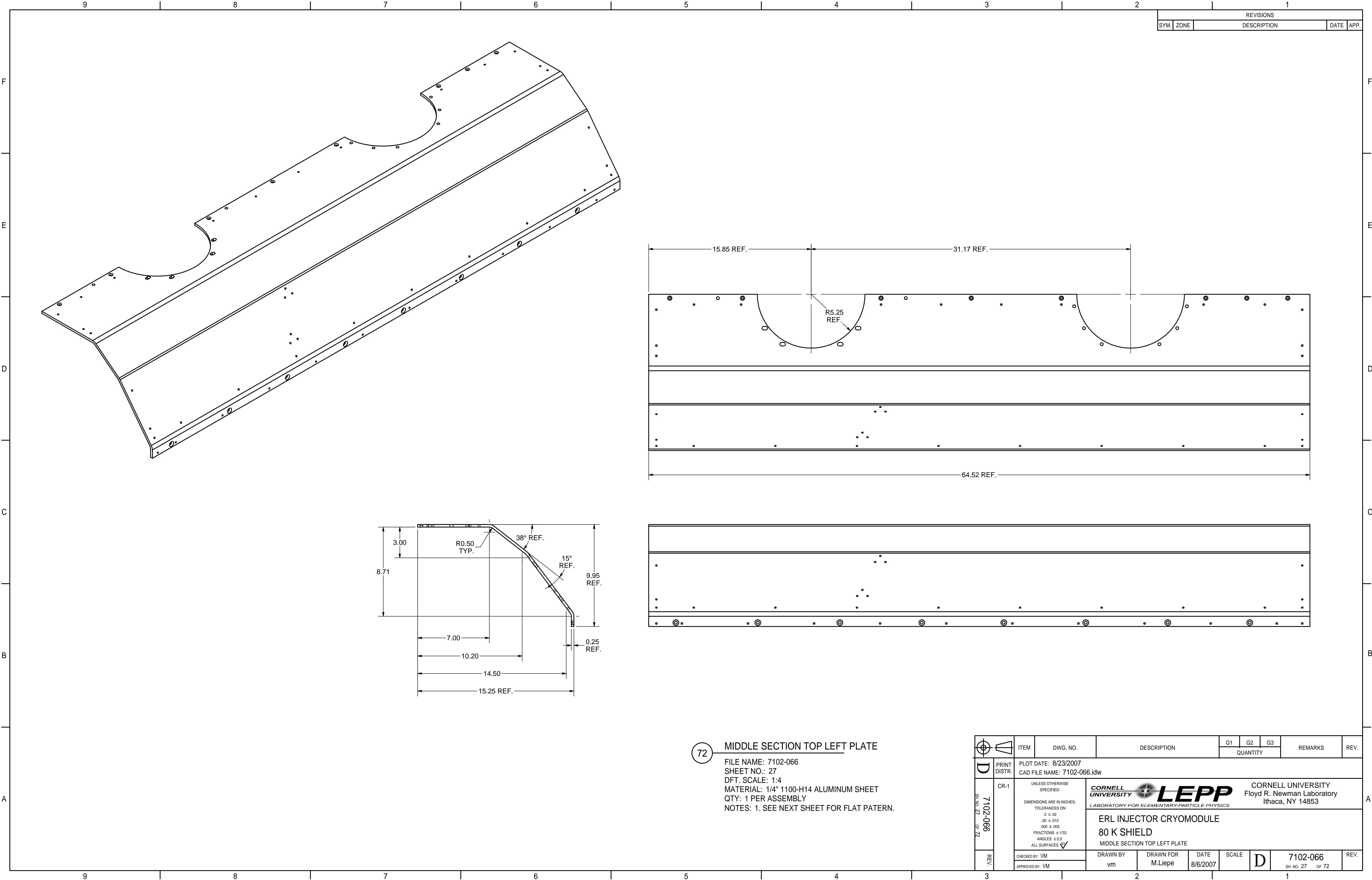
ERL INJECTOR CRYOMODULE
80 K SHIELD
MIDDLE SECTION TOP RIGHT PLATE

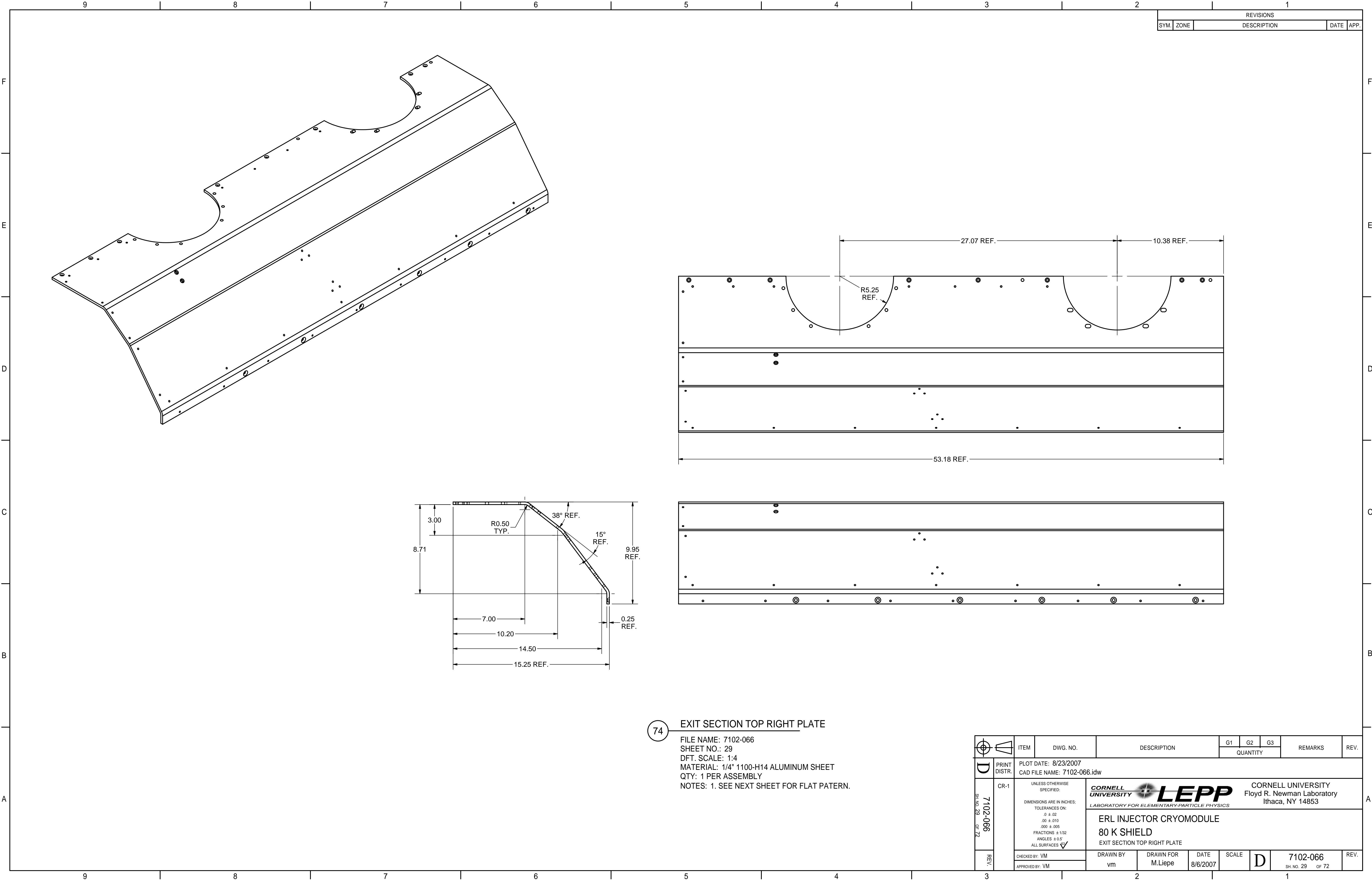


MIDDLE SECTION TOP RIGHT PLATE (FLAT PATTERN)

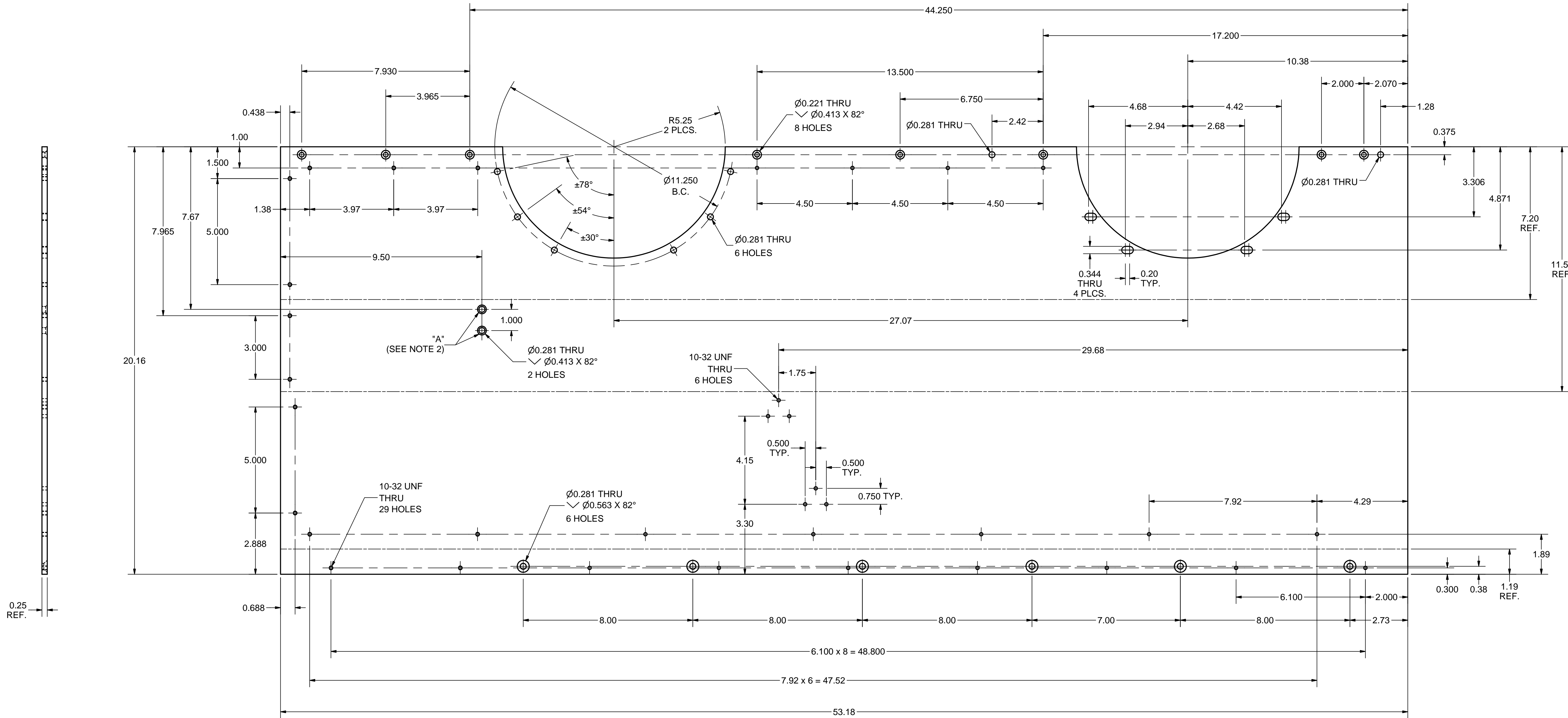
FILE NAME: 7102-066
SHEET NO.: 26
DFT. SCALE: 1:2.5
MATERIAL: 1/4" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE PREVIOUS SHEET FOR BEND PROFILE
2. FLAT PATTERN OF PART ITEM 72 (TWO SHEETS FORWARD) IS
SIMILAR TO THIS ONE, BUT DOES NOT HAVE TWO "A" HOLES.

 		ITEM		DWG. NO.		DESCRIPTION				G1		G2		G3		REMARKS		REV.		
										QUANTITY										
D		PRINT DISTR.		PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw																
SH NO. 26 OF 72		7102-066		CR-1		<div>UNLESS OTHERWISE SPECIFIED:</div> <div>DIMENSIONS ARE IN INCHES:</div> <div>TOLERANCES ON:</div> <div>.0 ± .02</div> <div>.00 ± .010</div> <div>.000 ± .005</div> <div>FRACTIONS ± 1/32</div> <div>ANGLES ± 0.5°</div> <div>ALL SURFACES ✓</div> <div><div><div>CORNELL UNIVERSITY</div><div></div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>														
				ERL INJECTOR CRYOMODULE 80 K SHIELD MIDDLE SECTION TOP RIGHT PLATE (FLAT PATTERN)																
		CHECKED BY: VM		DRAWN BY		DRAWN FOR		DATE		SCALE		D		7102-066		REV.				
		APPROVED BY: VM		vm		M.Liepe		8/6/2007						SH NO. 26 OF 72						





REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

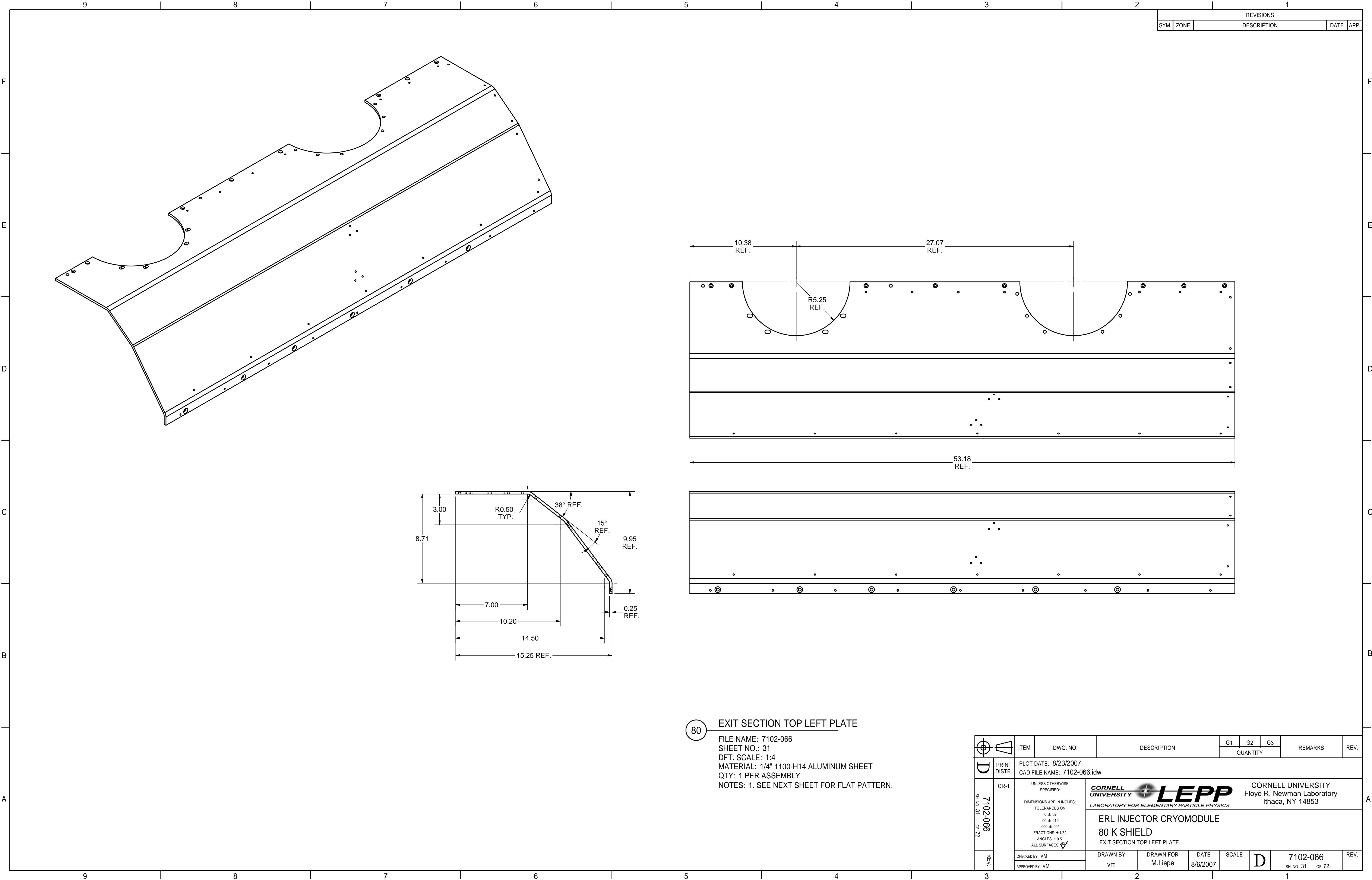


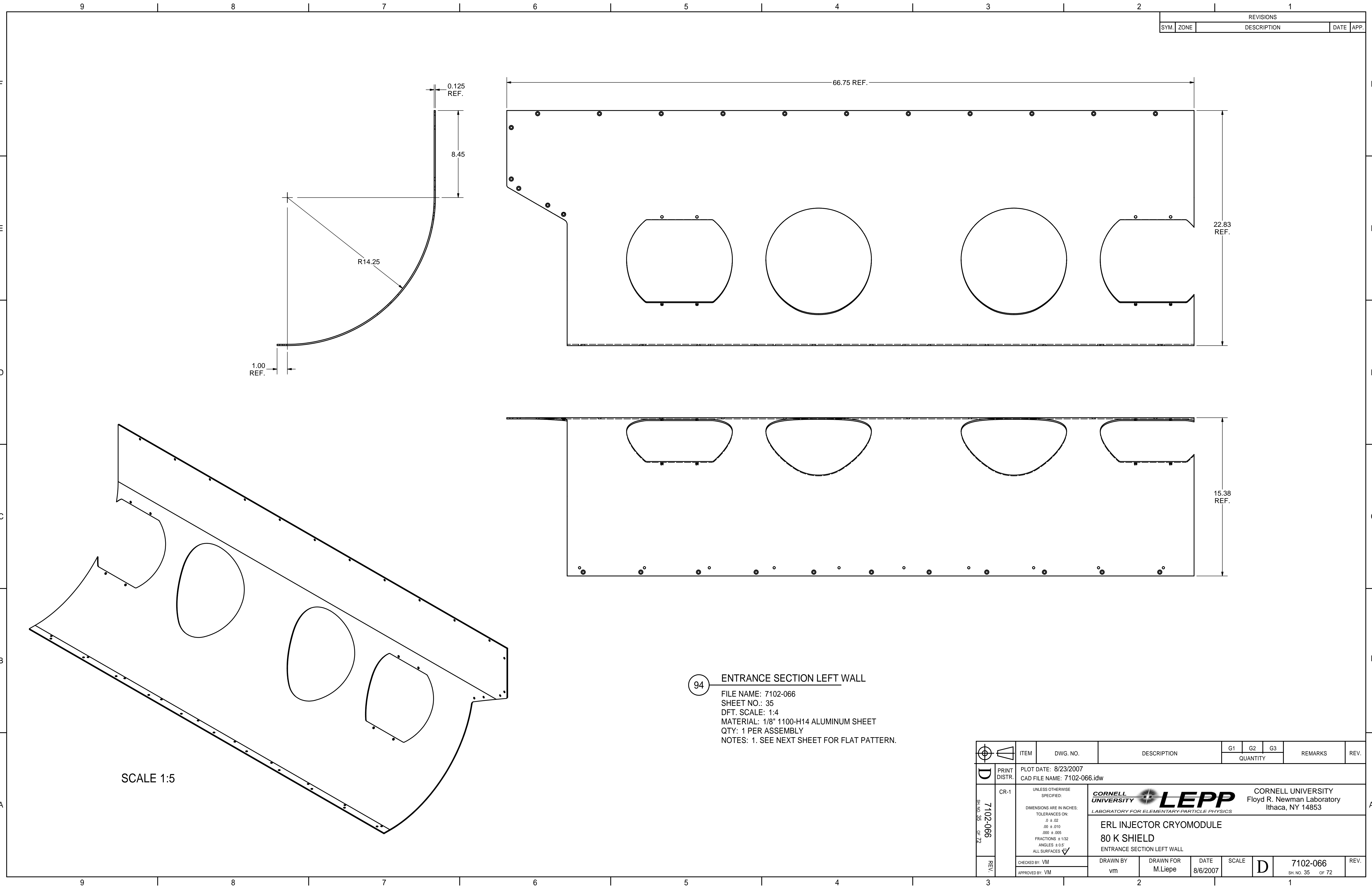
74 EXIT SECTION TOP RIGHT PLATE (FLAT PATTERN)

FILE NAME: 7102-066
SHEET NO.: 30
DFT. SCALE: 1:2.5
MATERIAL: 1/4" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY





NOTES: 1. SEE PREVIOUS SHEET FOR BEND PROFILE
2. FLAT PATTERN OF PART ITEM 80 (TWO SHEETS FORWARD IS SIMILAR TO THIS ONE, BUT DOES NOT HAVE TWO "A" HOLES.)

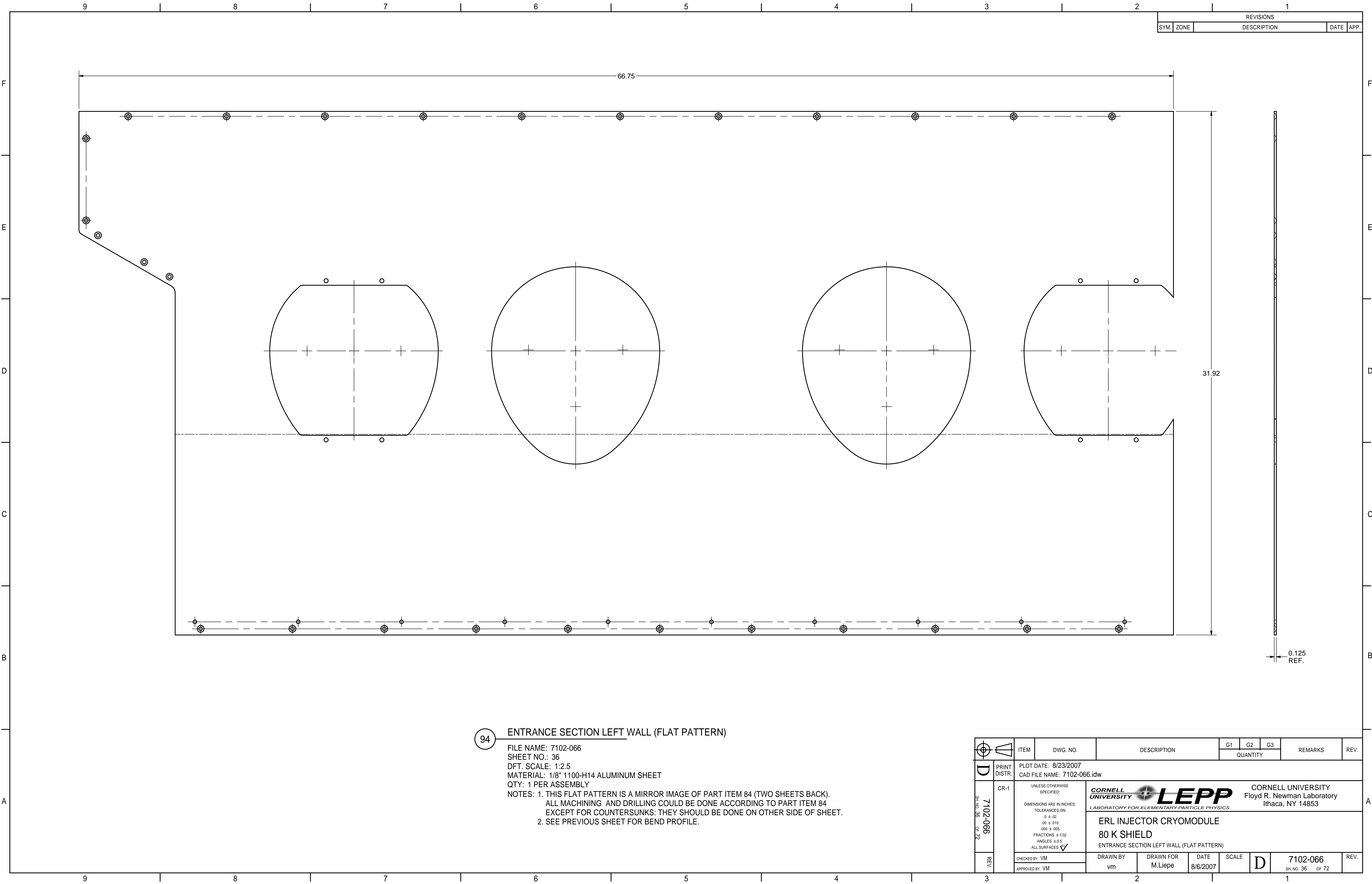
	ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.	
							QUANTITY				
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw									
	D	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES	 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 ERL INJECTOR CRYMODULE 80 K SHIELD EXIT SECTION TOP RIGHT PLATE (FLAT PATTERN)							
CHECKED BY: VM											DRAWN BY: vm
SH. NO. 30 OF 72		APPROVED BY: VM									





REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
					QUANTITY						
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw									
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES ✓		<div><div><div>CORNELL UNIVERSITY</div><div></div><div>L E P P</div></div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>							
7102-066 SH. NO. 35 OF 72	REV.	ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION LEFT WALL									
		CHECKED BY: VM		DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE		7102-066 SH. NO. 35 OF 72	REV.	
APPROVED BY: VM											

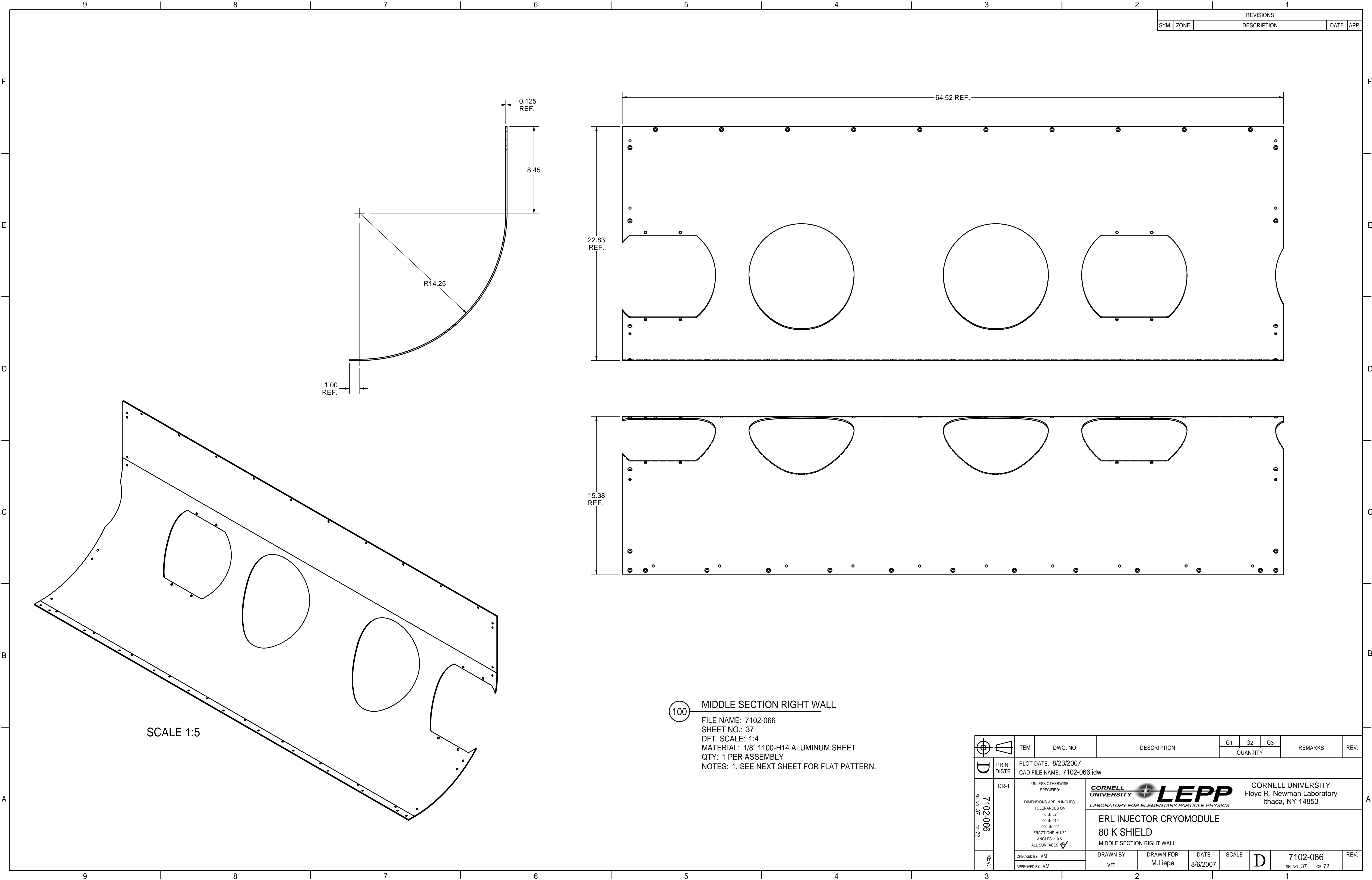


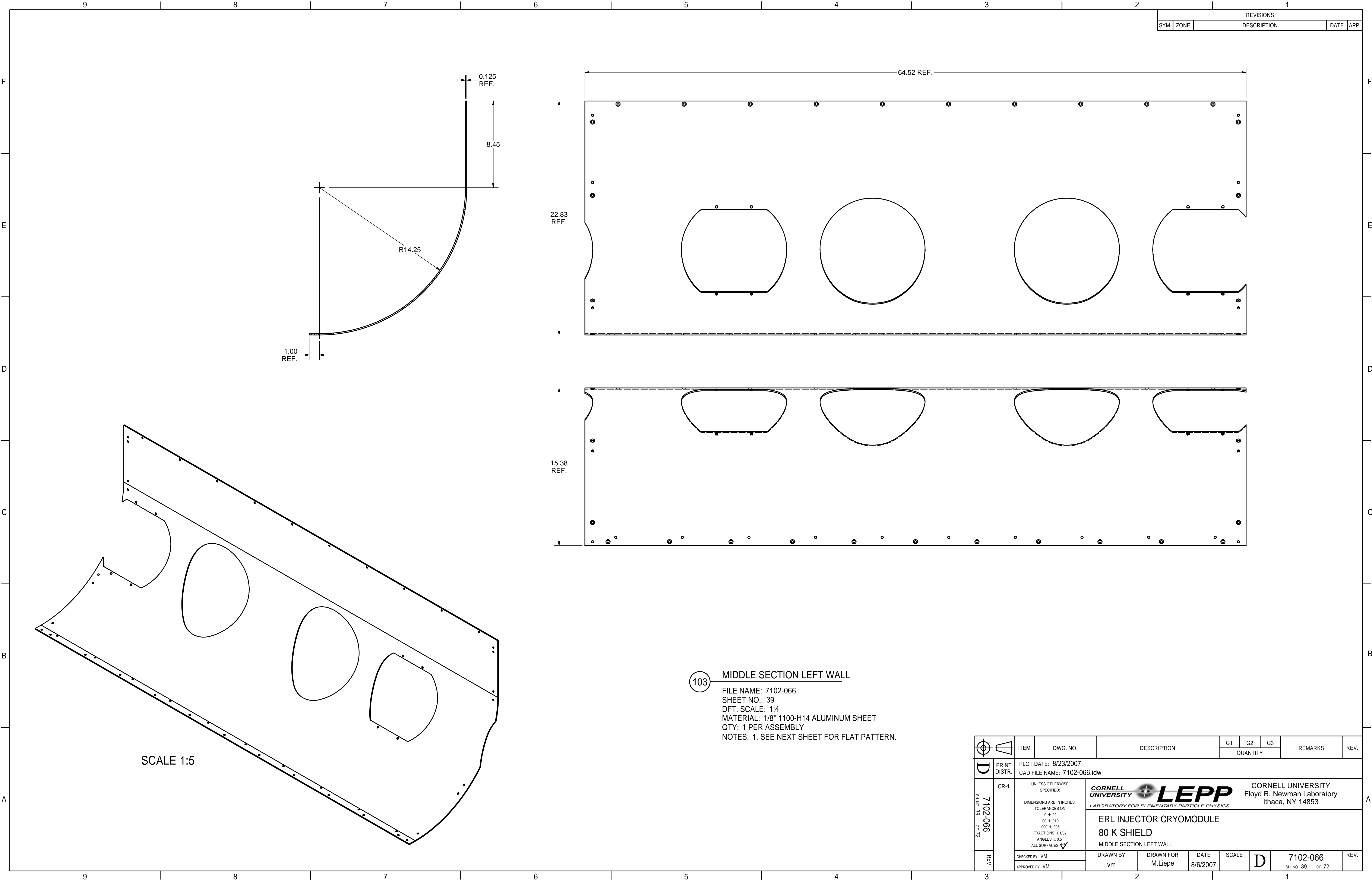
94

ENTRANCE SECTION LEFT WALL (FLAT PATTERN)

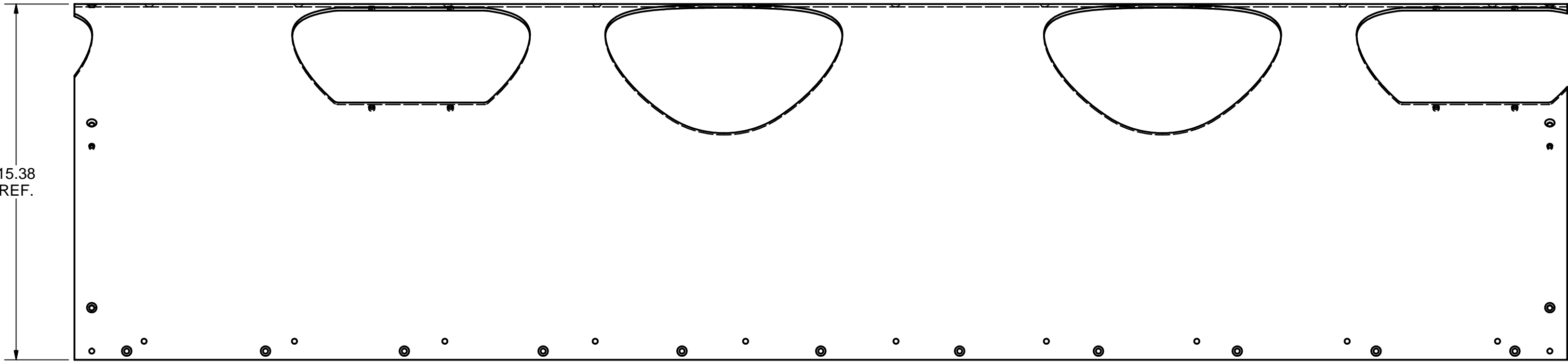
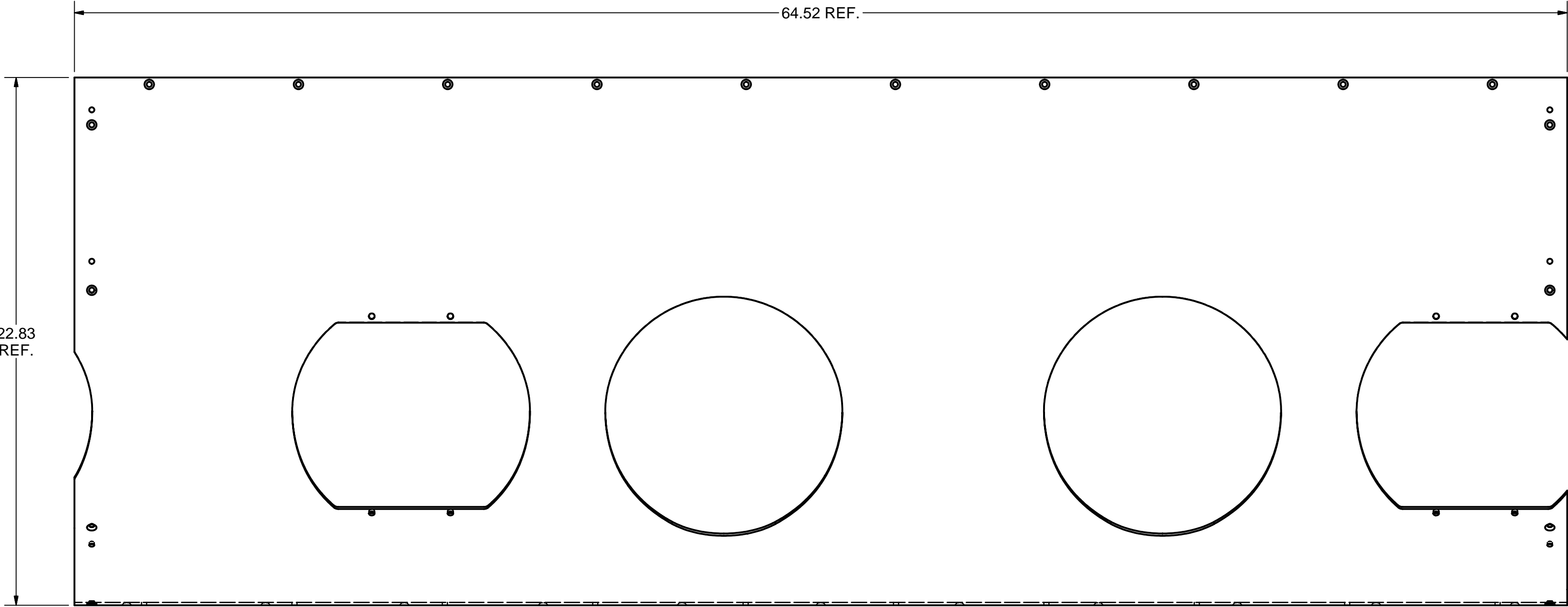
FILE NAME: 7102-066
SHEET NO.: 36
DFT. SCALE: 1:2.5
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. THIS FLAT PATTERN IS A MIRROR IMAGE OF PART ITEM 84 (TWO SHEETS BACK).
ALL MACHINING AND DRILLING COULD BE DONE ACCORDING TO PART ITEM 84
EXCEPT FOR COUNTERSUNKS: THEY SHOULD BE DONE ON OTHER SIDE OF SHEET.
2. SEE PREVIOUS SHEET FOR BEND PROFILE.

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
		QUANTITY										
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES:</p> <p>TOLERANCES ON:</p> <p>.0 ± .02</p> <p>.00 ± .010</p> <p>.000 ± .005</p> <p>FRACTIONS ± 1/32</p> <p>ANGLES ± 0.5°</p> <p>ALL SURFACES </p>		<div><div><div>CORNELL UNIVERSITY</div><div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div><div>ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION LEFT WALL (FLAT PATTERN)</div></div>								
SH. NO. 36 OF 72	7102-066											
	REV.	CHECKED BY: VM	DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE	D	7102-066		REV.		
		APPROVED BY: VM	SH. NO. 36 OF 72									





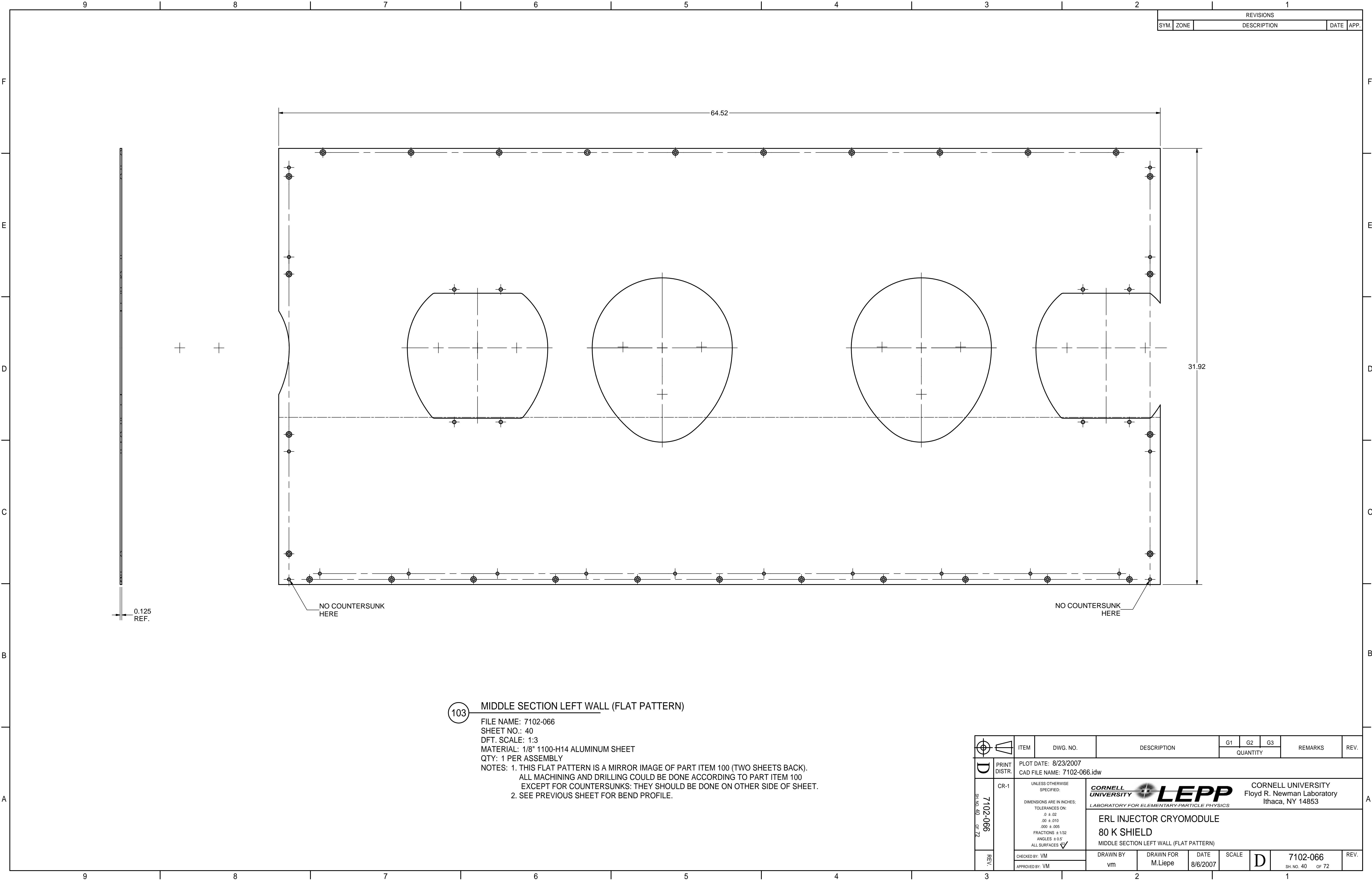


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



103 MIDDLE SECTION LEFT WALL
FILE NAME: 7102-066
SHEET NO.: 39
DFT. SCALE: 1:4
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN.

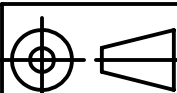


		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
		QUANTITY										
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	7102-066 SH. NO. 39 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES ✓		<div>CORNELL UNIVERSITY </div> <div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div>					CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853		
		ERL INJECTOR CRYOMODULE 80 K SHIELD MIDDLE SECTION LEFT WALL										
REV.		CHECKED BY: VM	DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE	D	7102-066 SH. NO. 39 OF 72	
		APPROVED BY: VM										

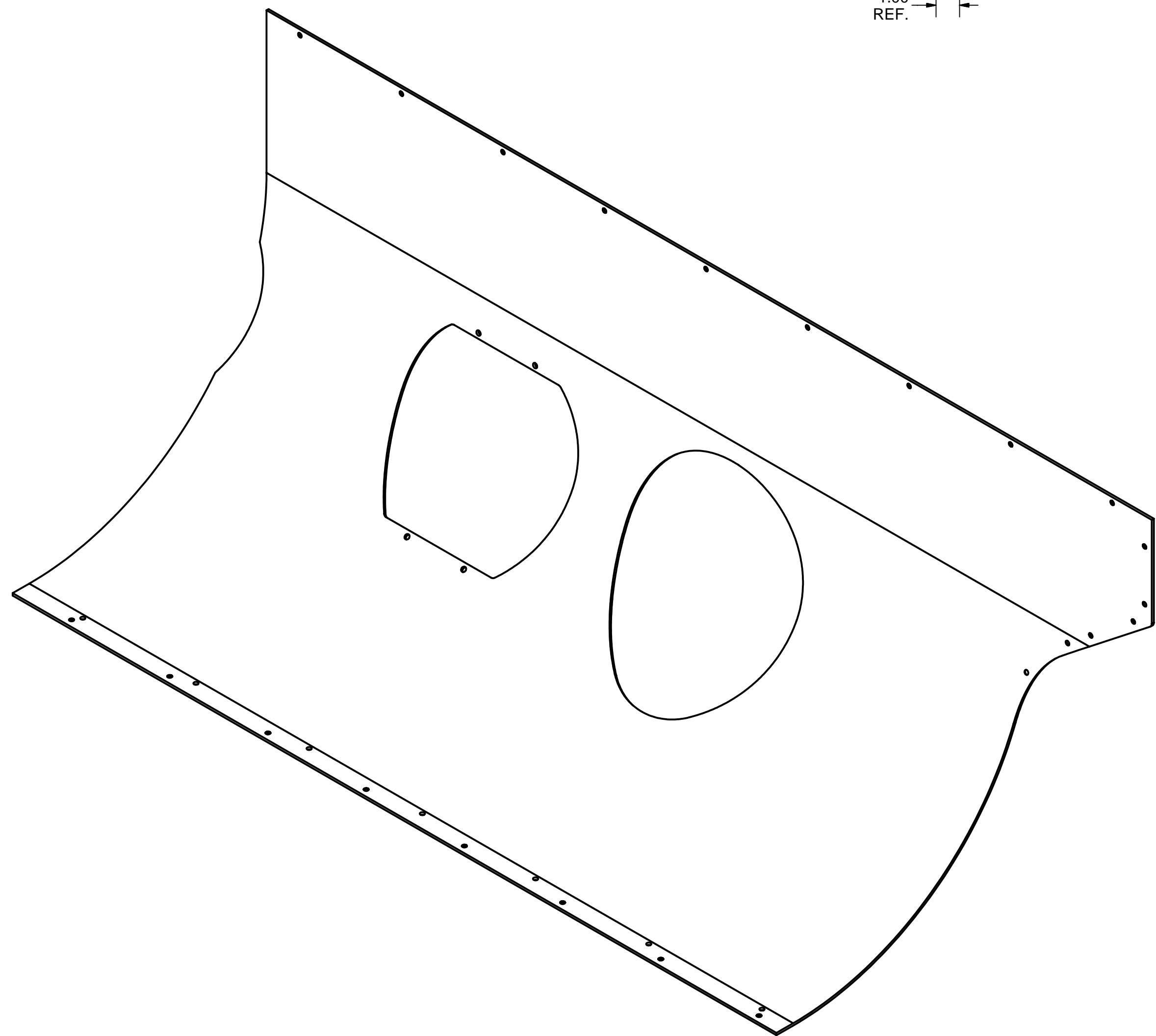
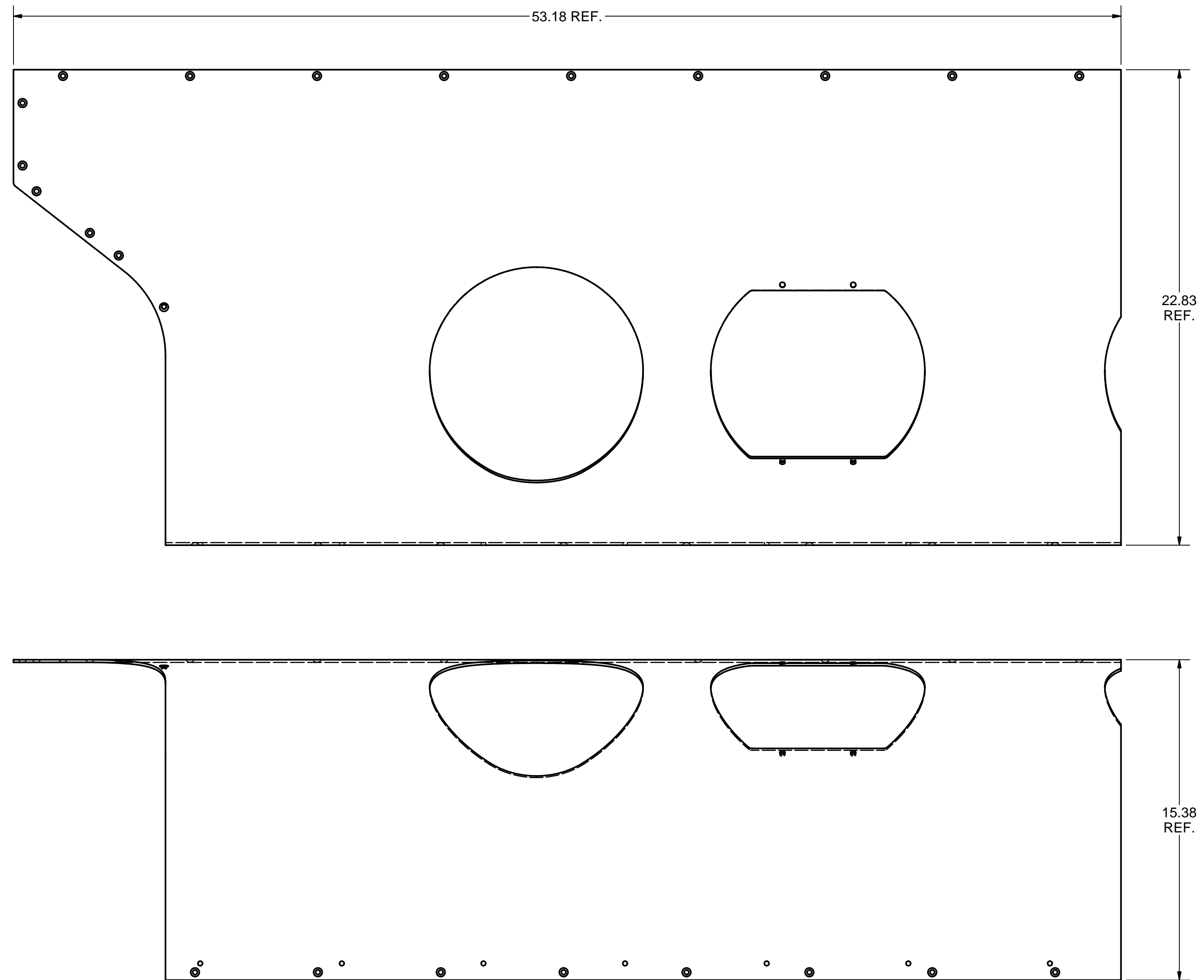
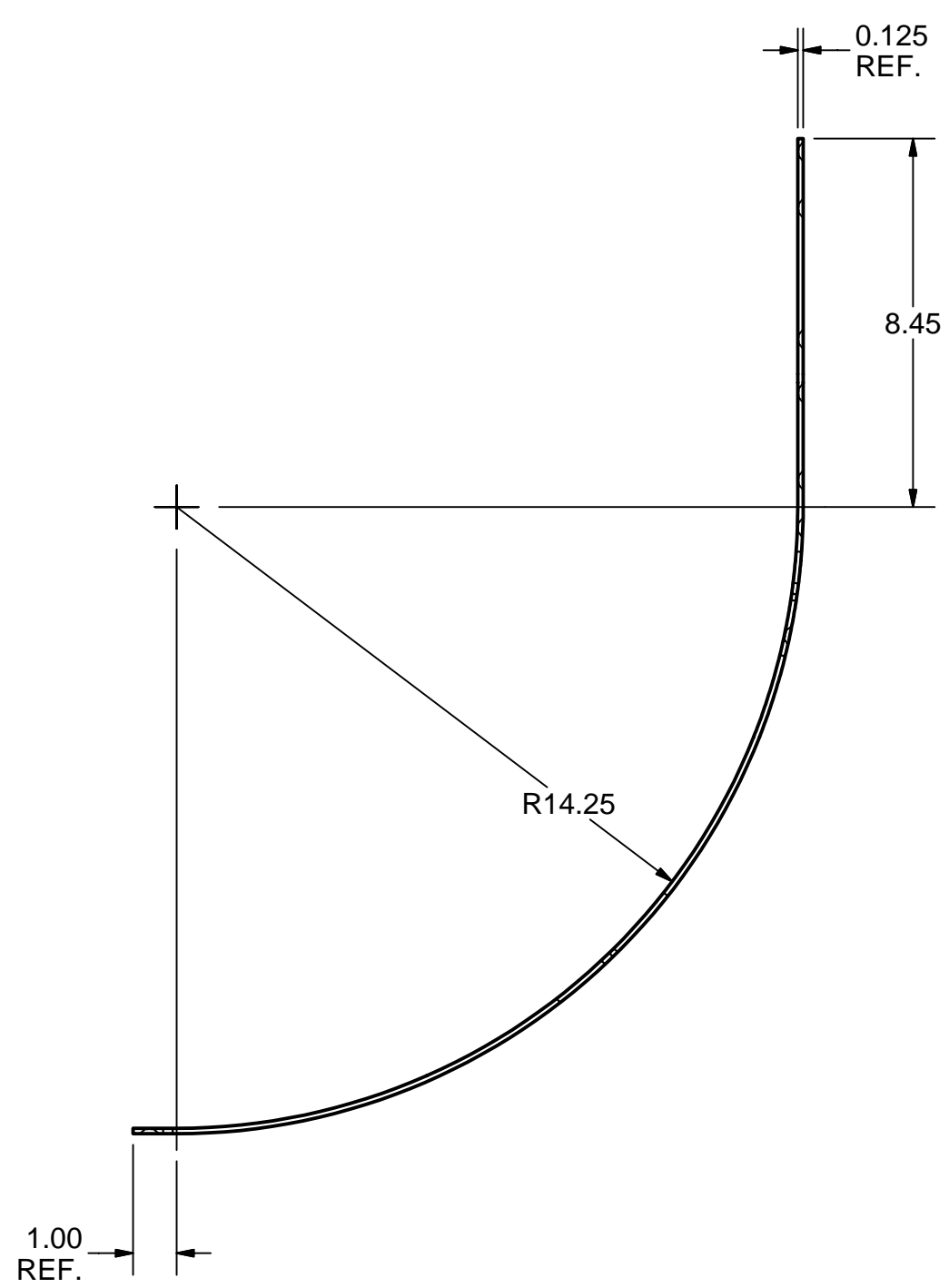


103

MIDDLE SECTION LEFT WALL (FLAT PATTERN)








FILE NAME: 7102-066
SHEET NO.: 40
DFT. SCALE: 1:3
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. THIS FLAT PATTERN IS A MIRROR IMAGE OF PART ITEM 100 (TWO SHEETS BACK).
ALL MACHINING AND DRILLING COULD BE DONE ACCORDING TO PART ITEM 100
EXCEPT FOR COUNTERSUNKS: THEY SHOULD BE DONE ON OTHER SIDE OF SHEET.
2. SEE PREVIOUS SHEET FOR BEND PROFILE.

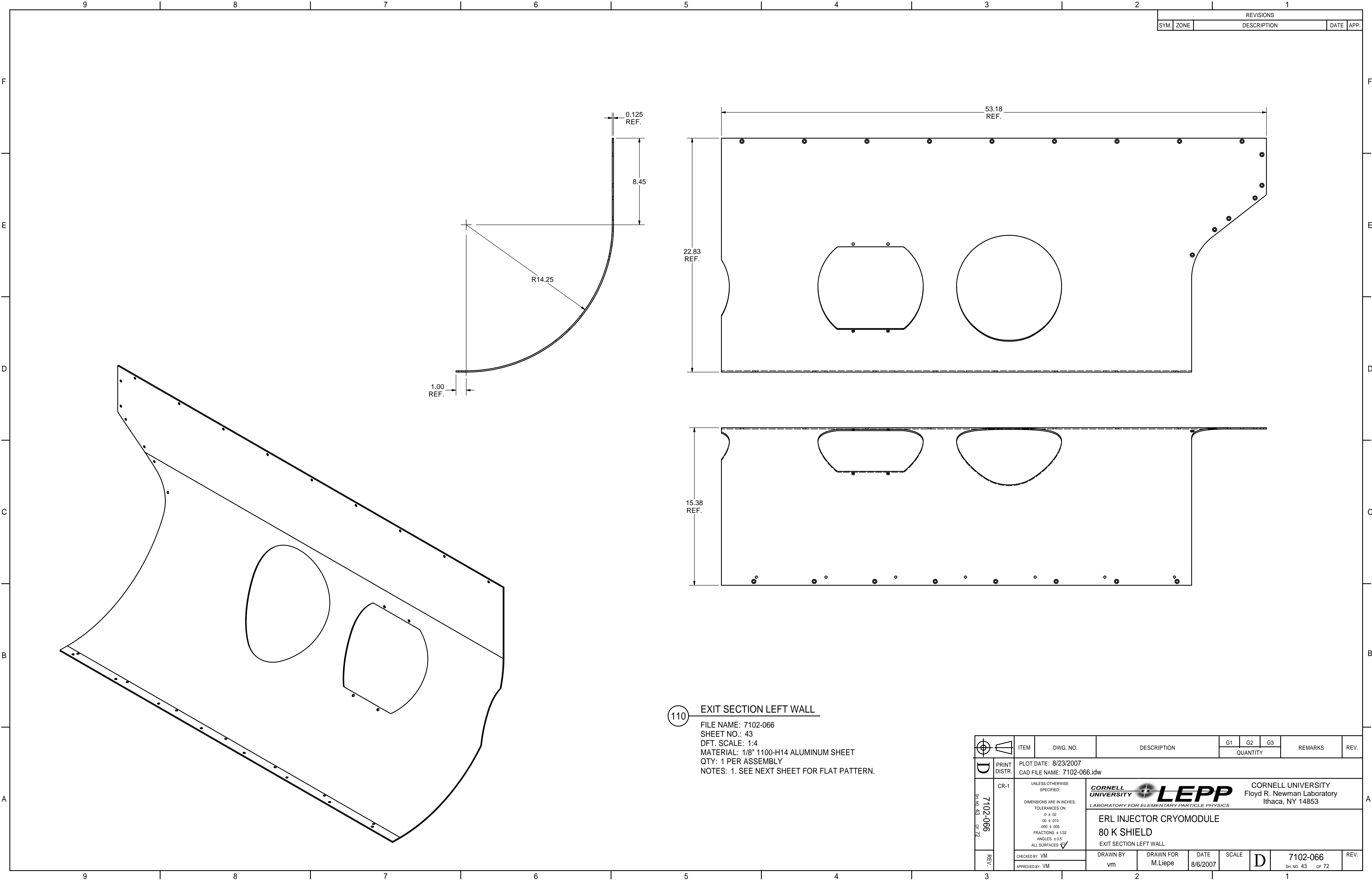
		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
		QUANTITY										
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
SH. NO. 40 OF 72	7102-066	CR-1	UNLESS OTHERWISE SPECIFIED:		 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853							
			DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 									
					ERL INJECTOR CRYOMODULE 80 K SHIELD MIDDLE SECTION LEFT WALL (FLAT PATTERN)							
	REV.	CHECKED BY: VM	DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE	D	7102-066	REV.
		APPROVED BY: VM	SH. NO. 40 OF 72									



EXIT SECTION RIGHT WALL

FILE NAME: 7102-066
SHEET NO.: 41
DFT. SCALE: 1:4
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN.

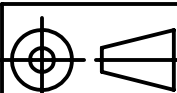




			ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
						QUANTITY						
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	SH NO. 41 OF 72 7102-066	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 	<div><div><p>CORNELL UNIVERSITY</p></div><div><p>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</p></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>								
				ERL INJECTOR CRYOMODULE 80 K SHIELD EXIT SECTION RIGHT WALL								
REV.	CHECKED BY: VM	DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066			REV.		
	APPROVED BY: VM	vm	M.Liepe	8/6/2007			SH. NO. 41 OF 72					

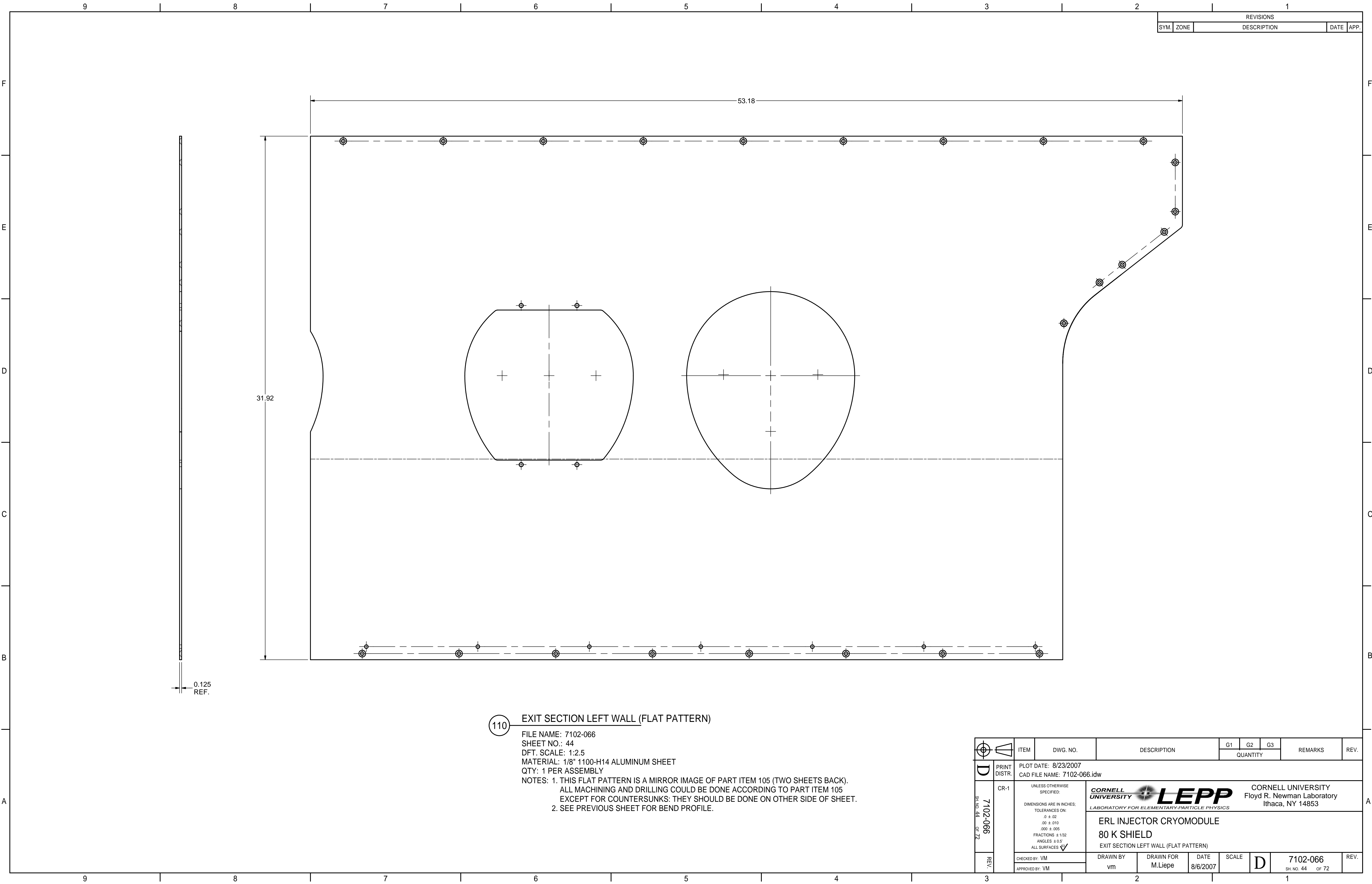


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

110 EXIT SECTION LEFT WALL

FILE NAME: 7102-066
SHEET NO.: 43
DFT. SCALE: 1:4
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN.






		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES:</p> <p>TOLERANCES ON:</p> <p>.0 ± .02</p> <p>.00 ± .010</p> <p>.000 ± .005</p> <p>FRACTIONS ± 1/32</p> <p>ANGLES ± 0.5°</p> <p>ALL SURFACES </p>		<p>CORNELL UNIVERSITY  CORNELL UNIVERSITY</p> <p>Floyd R. Newman Laboratory</p> <p>Ithaca, NY 14853</p> <p>ERL INJECTOR CRYOMODULE</p> <p>80 K SHIELD</p> <p>EXIT SECTION LEFT WALL</p>								
SH. NO. 43 OF 72	7102-066 OF 72	CHECKED BY: VM		DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066		REV.	
	REV.	APPROVED BY: VM		vm	M.Liepe	8/6/2007			SH. NO. 43 OF 72			

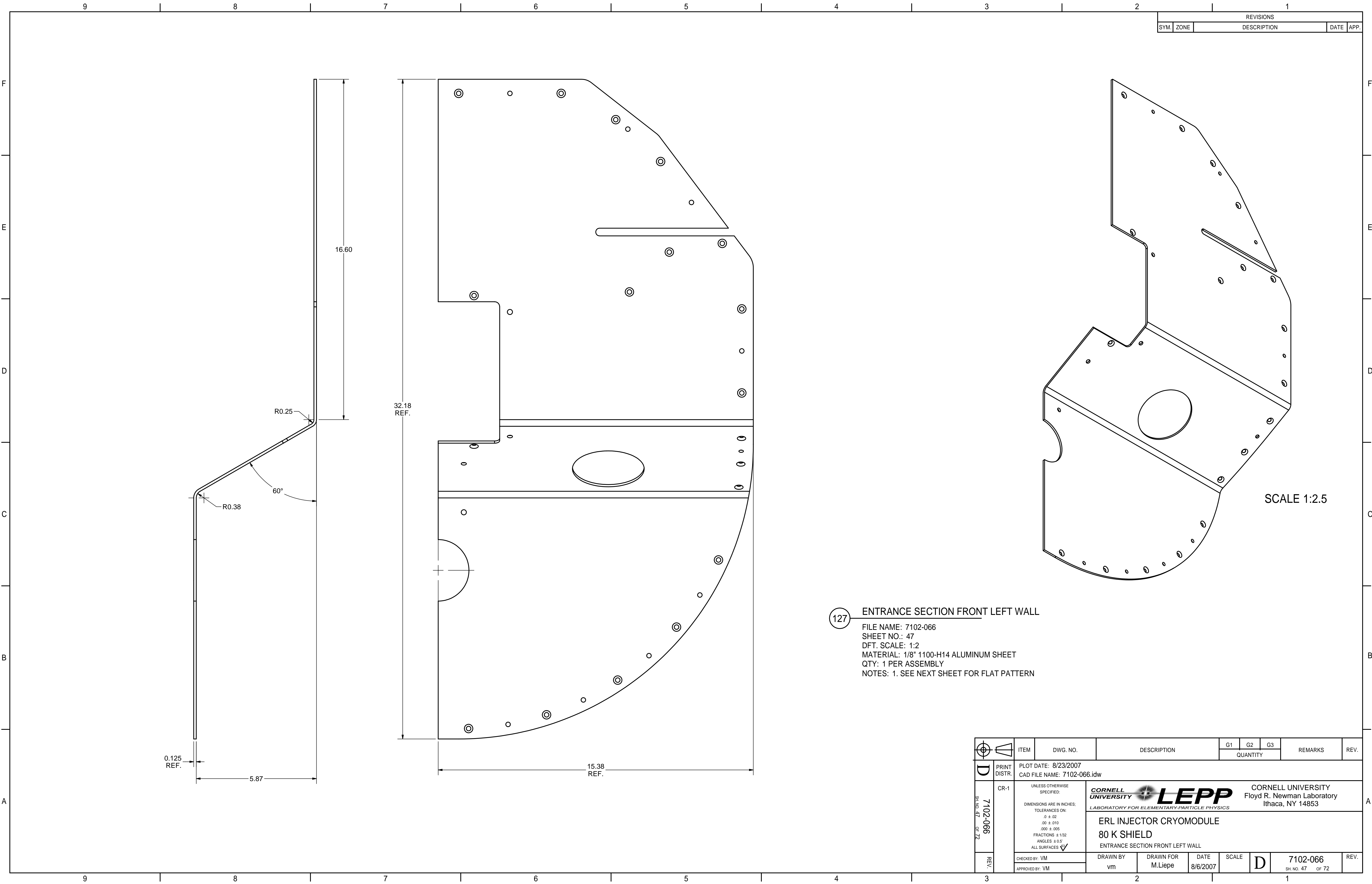


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

110 EXIT SECTION LEFT WALL (FLAT PATTERN)




FILE NAME: 7102-066
SHEET NO.: 44
DFT. SCALE: 1:2.5
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. THIS FLAT PATTERN IS A MIRROR IMAGE OF PART ITEM 105 (TWO SHEETS BACK).
ALL MACHINING AND DRILLING COULD BE DONE ACCORDING TO PART ITEM 105
EXCEPT FOR COUNTERSUNKS: THEY SHOULD BE DONE ON OTHER SIDE OF SHEET.
2. SEE PREVIOUS SHEET FOR BEND PROFILE.

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
					QUANTITY						
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw									
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD EXIT SECTION LEFT WALL (FLAT PATTERN)</div>							
SH. NO. 44 OF 72 7102-066	REV.	CHECKED BY: VM	DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066		REV.	
		APPROVED BY: VM	vm	M.Liepe	8/6/2007			SH. NO. 44 OF 72			

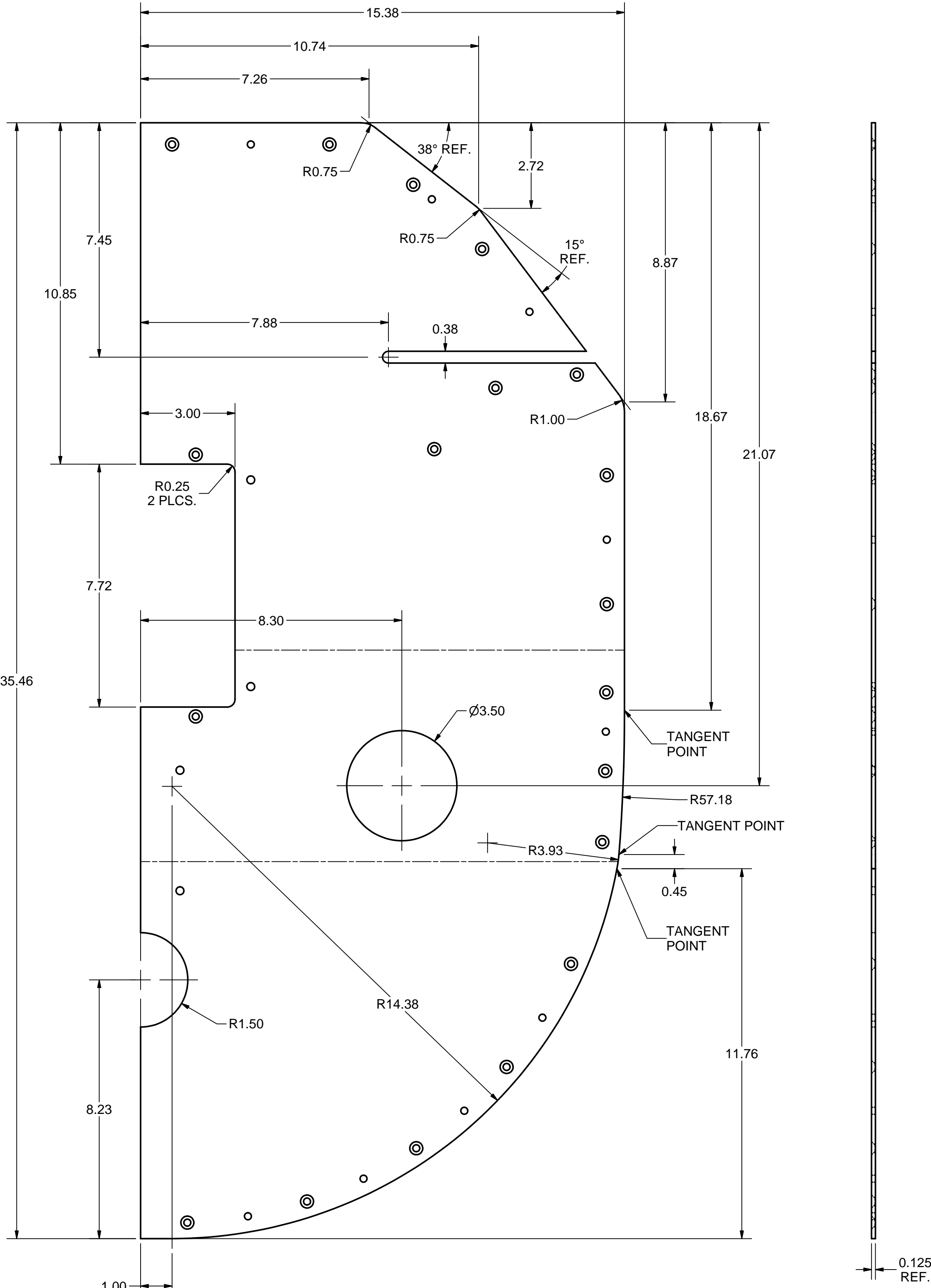
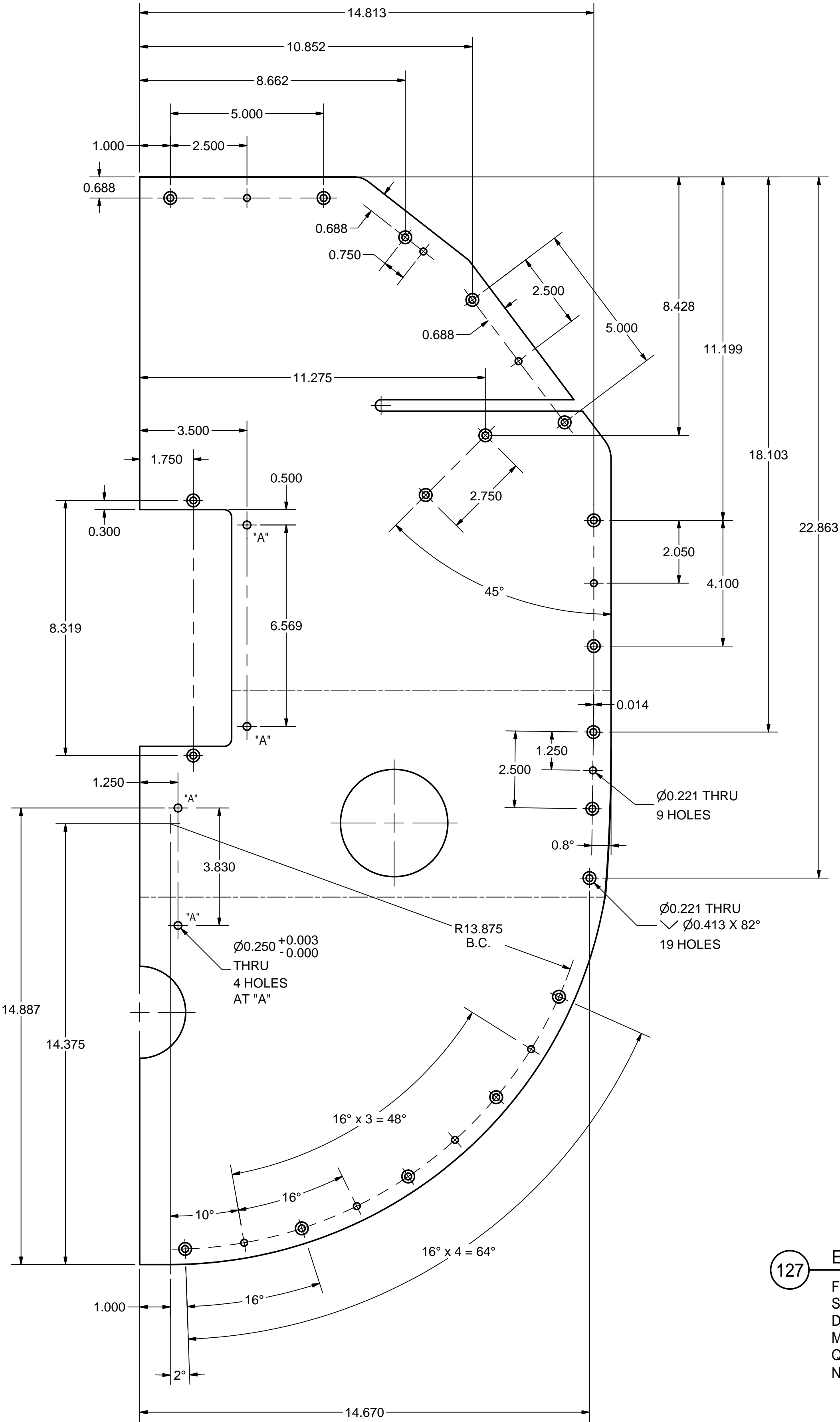


127 ENTRANCE SECTION FRONT LEFT WALL

FILE NAME: 7102-066
SHEET NO.: 47
DFT. SCALE: 1:2
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN


		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
					QUANTITY				
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw							
	CR-1	<div>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES </div>		<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION FRONT LEFT WALL</div>					
REV.	CHECKED BY: VM	DRAWN BY vm		DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE	D	7102-066	REV.
	APPROVED BY: VM	SH. NO. 47 OF 72							

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



127 ENTRANCE SECTION FRONT LEFT WALL (FLAT PATTERN)

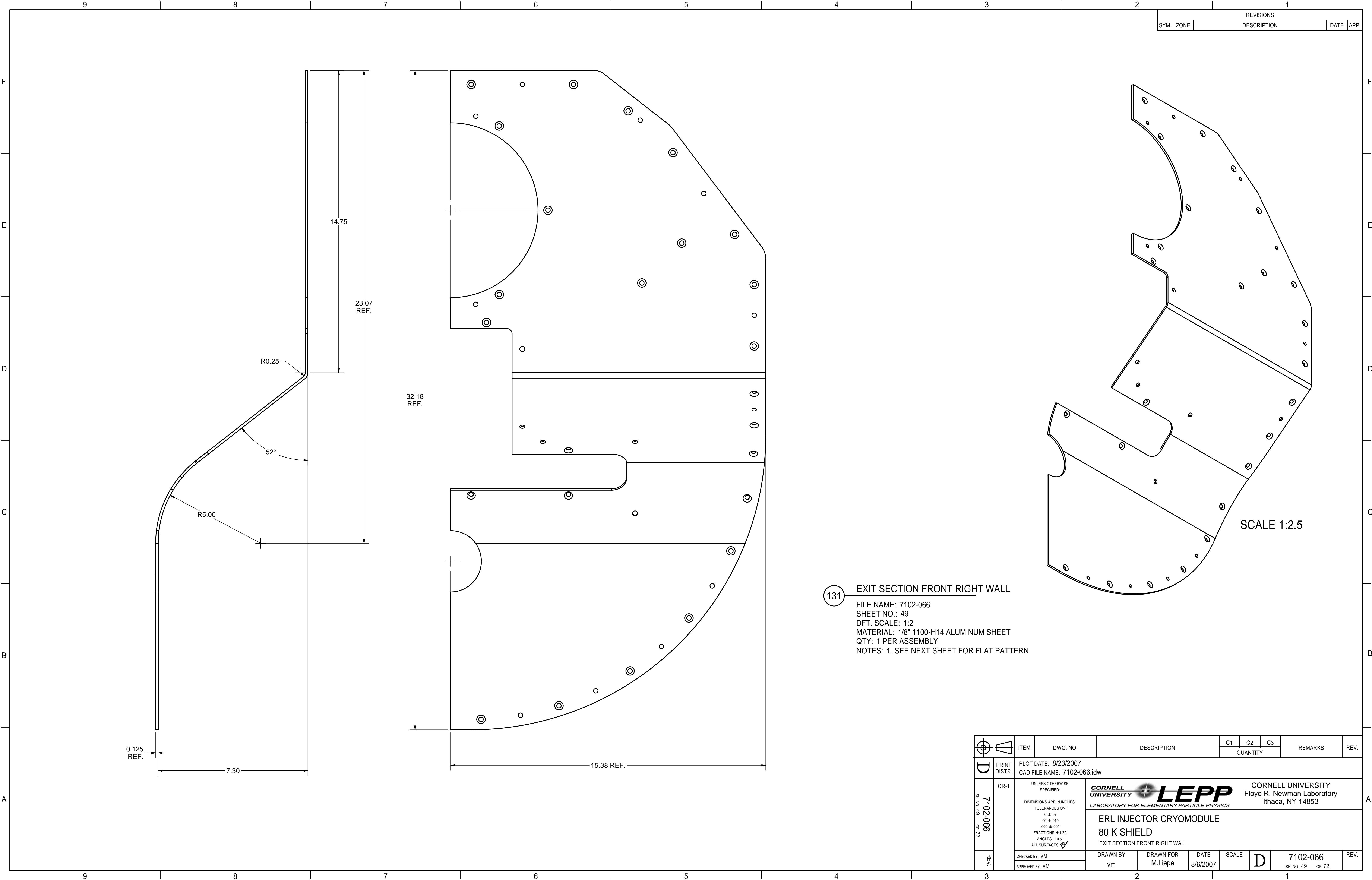
FILE NAME: 7102-066
SHEET NO.: 48
DFT. SCALE: 1:2.5
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. TWO "FRONT" VIEWS WERE USED TO DIMENSION
DIFFERENT FEATURES OF THE SAME PART.
2. SEE PREVIOUS SHEET FOR BEND PROFILE.

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
							QUANTITY					
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
		CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES			<div><div><div>CORNELL UNIVERSITY</div><div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD ENTRANCE SECTION FRONT LEFT WALL (FLAT PATTERN)</div>						
7102-066 SH. NO. 48 OF 72	REV.	CHECKED BY: VM	DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE D		7102-066 SH. NO. 48 OF 72	REV.
		APPROVED BY: VM										

CORNELL UNIVERSITY
FLOYD R. NEWMAN LABORATORY
ITHACA, NY 14853

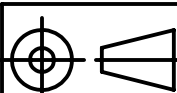





ERL INJECTOR CRYOMODULE
80 K SHIELD

ENTRANCE SECTION FRONT LEFT WALL (FLAT PATTERN)

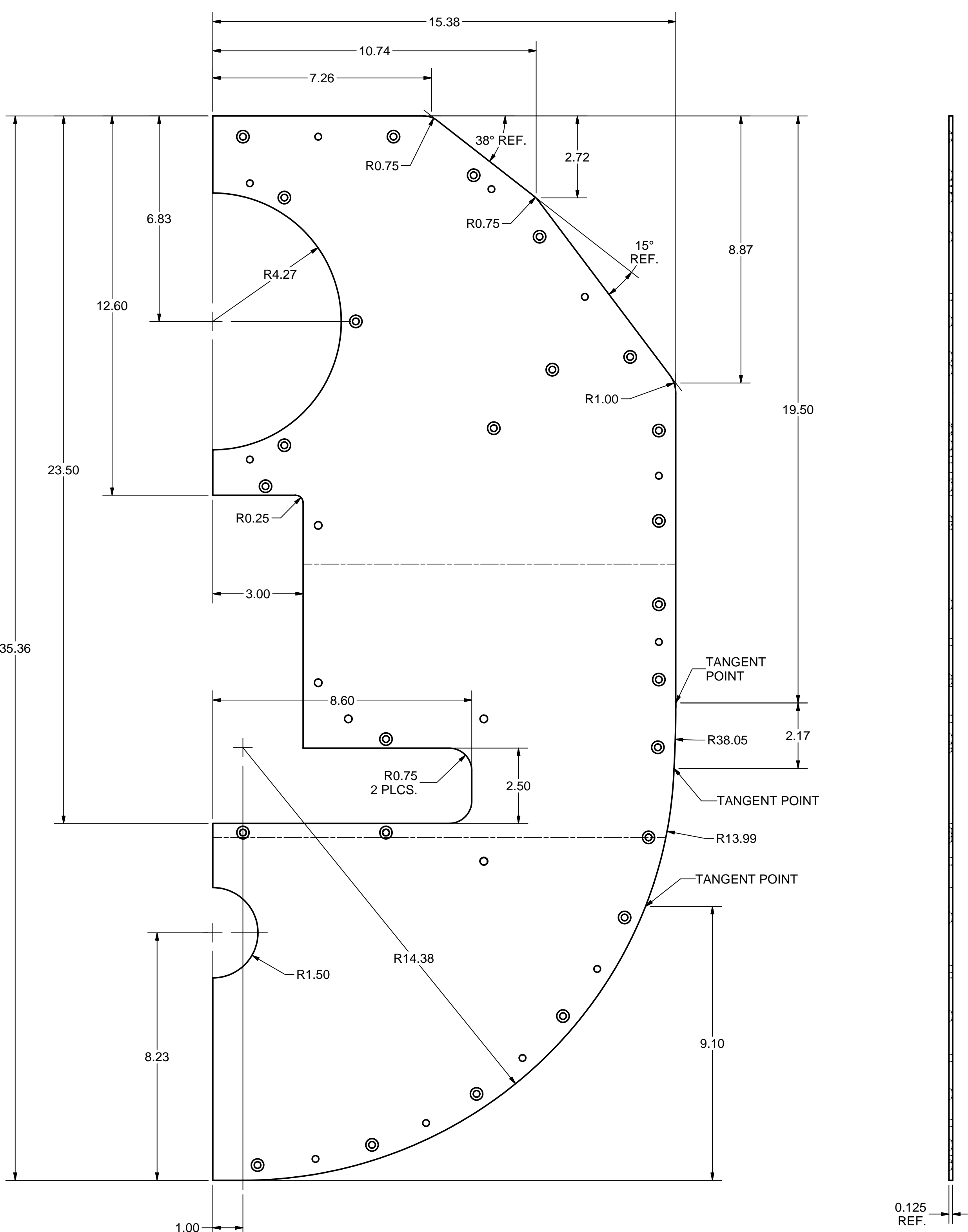
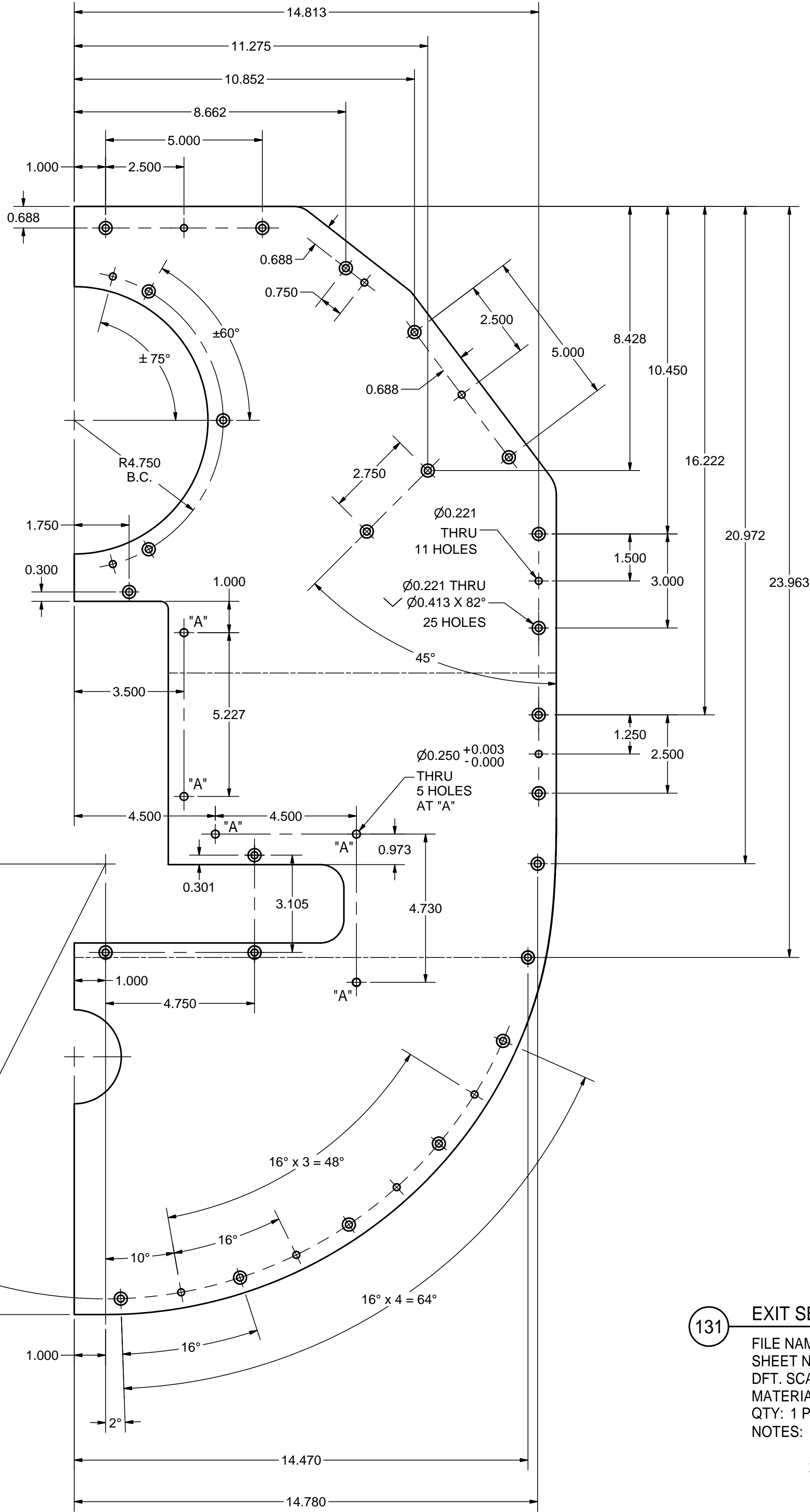


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

131 EXIT SECTION FRONT RIGHT WALL
FILE NAME: 7102-066
SHEET NO.: 49
DFT. SCALE: 1:2
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN


		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	7102-066 SH. NO. 49 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div> </div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD EXIT SECTION FRONT RIGHT WALL</div>							
		CHECKED BY: VM	DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066 SH. NO. 49 OF 72	REV.			
		APPROVED BY: VM	vm	M.Liepe	8/6/2007							

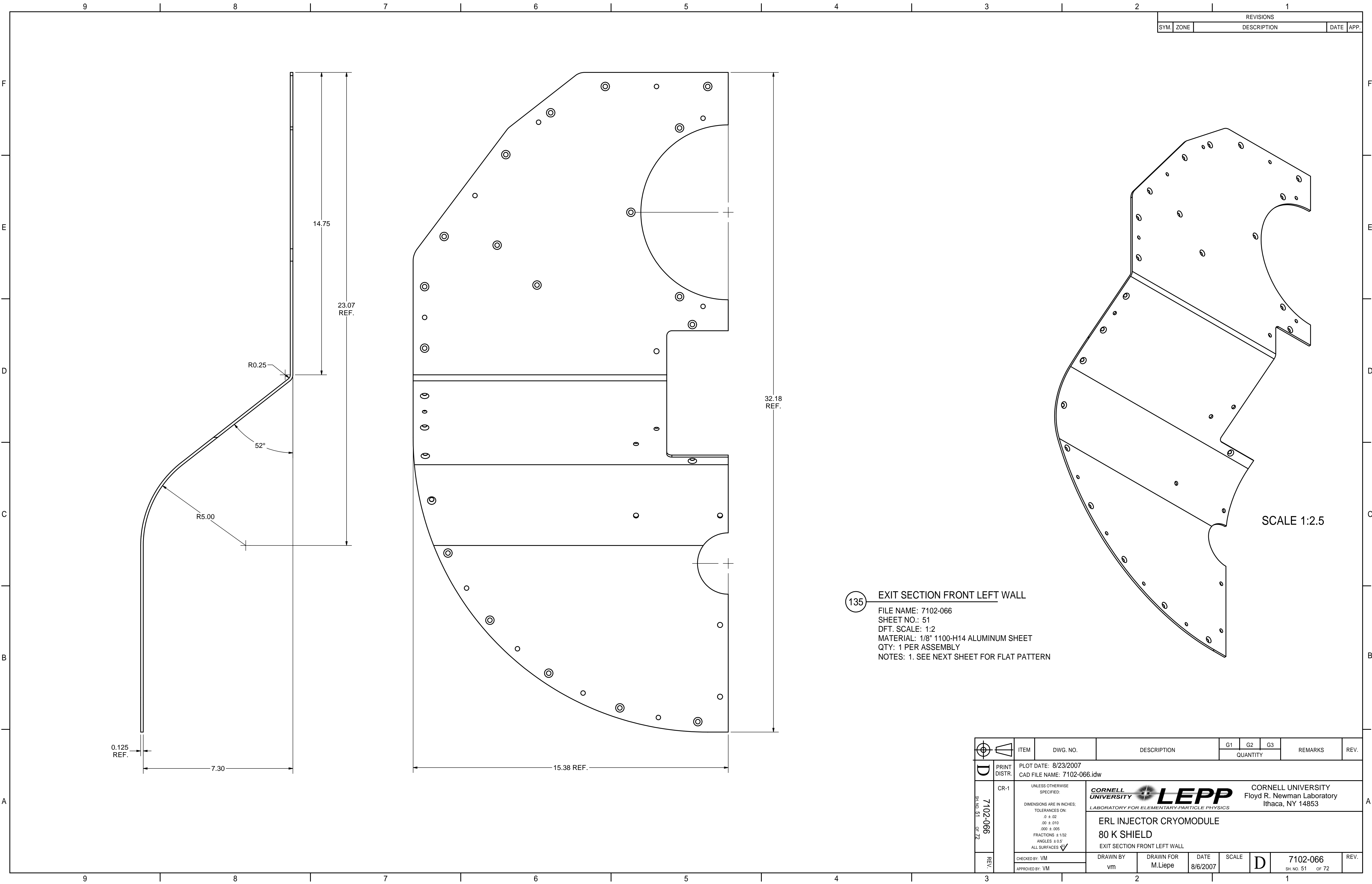
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



131 EXIT SECTION FRONT RIGHT WALL (FLAT PATTERN)

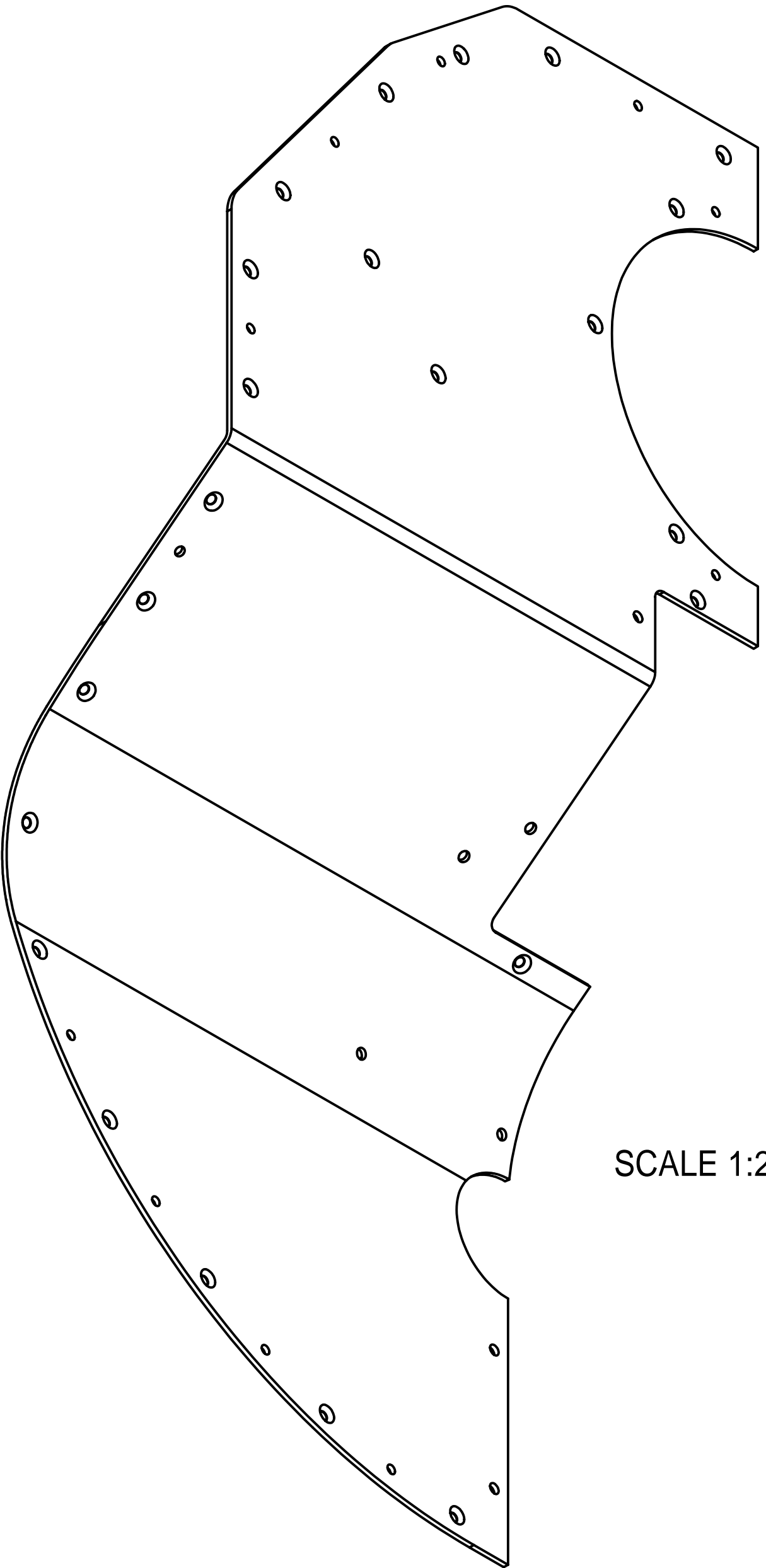
FILE NAME: 7102-066
SHEET NO.: 50
DFT. SCALE: 1:2.5
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. TWO "FRONT" VIEWS WERE USED TO DIMENSION
DIFFERENT FEATURES OF THE SAME PART.
2. SEE PREVIOUS SHEET FOR BEND PROFILE.


		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
					QUANTITY				
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw							
		CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES		<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD EXIT SECTION FRONT RIGHT WALL (FLAT PATTERN)</div>				
7102-066 SH. NO. 50 OF 72	REV.	CHECKED BY: VM	DRAWN BY: vm	DRAWN FOR: M.Liepe	DATE: 8/6/2007	SCALE: D	7102-066		REV.
		APPROVED BY: VM	SH. NO. 50 OF 72						



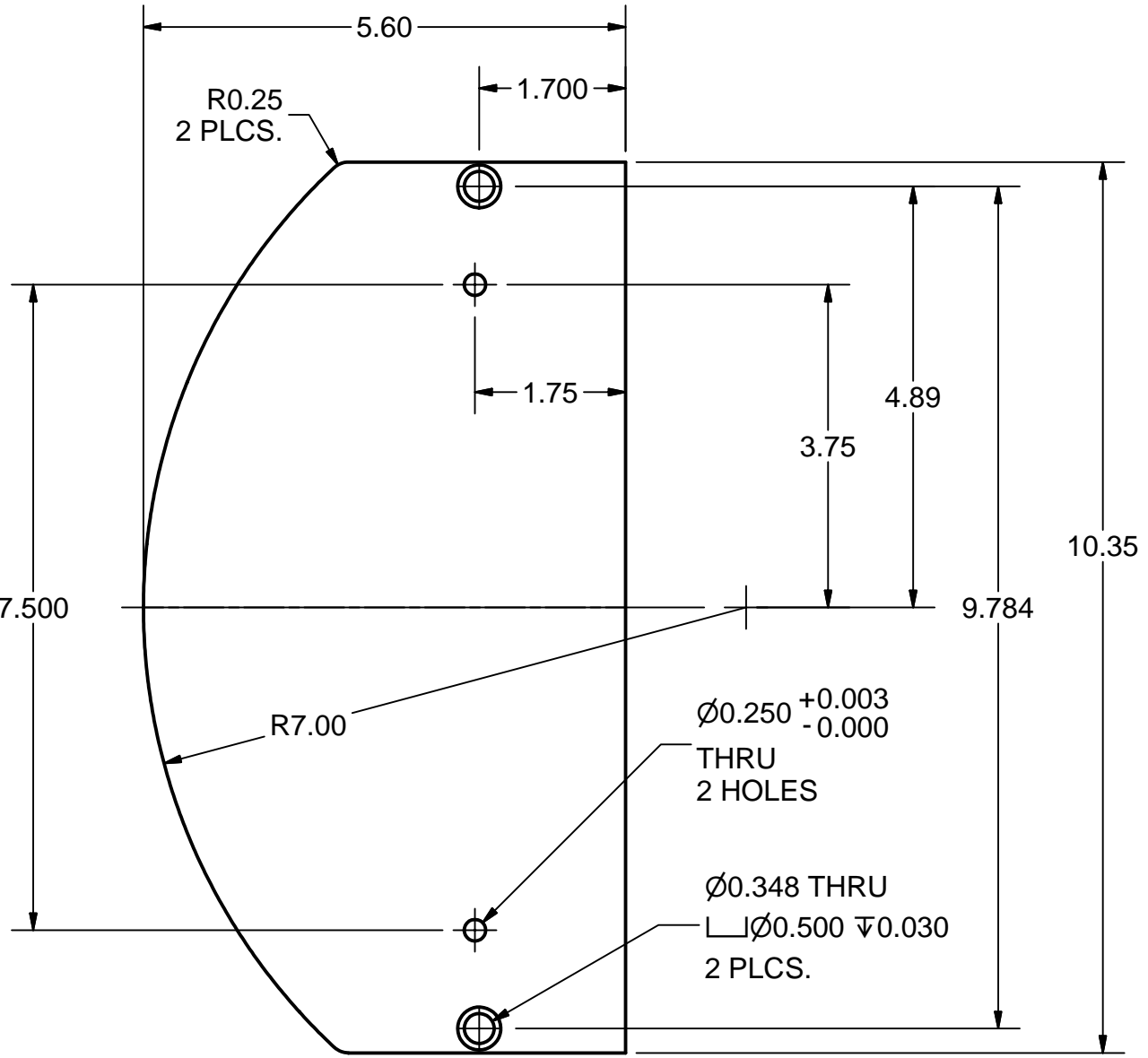
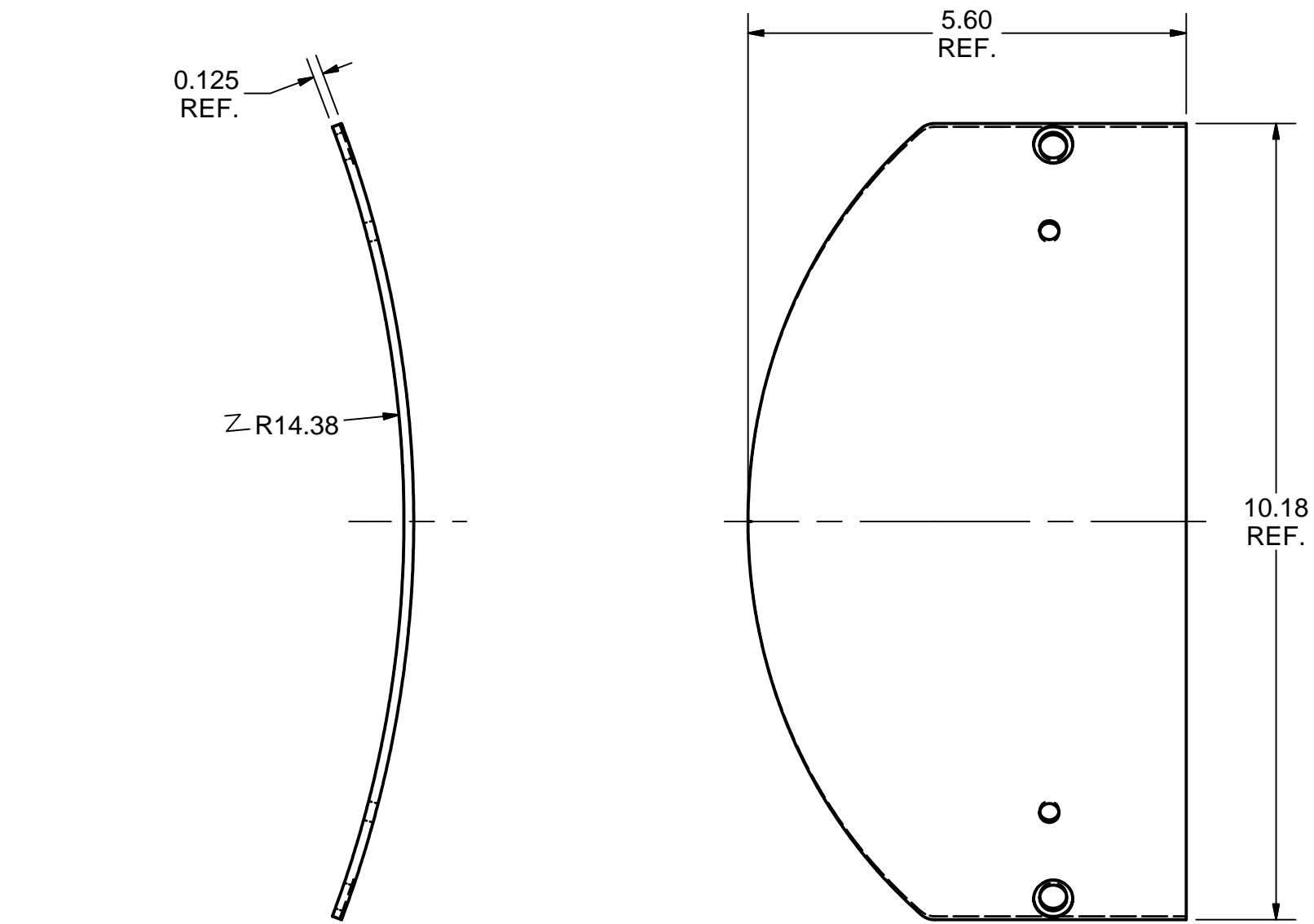
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

135 EXIT SECTION FRONT LEFT WALL
FILE NAME: 7102-066
SHEET NO.: 51
DFT. SCALE: 1:2
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE NEXT SHEET FOR FLAT PATTERN



		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	7102-066 SH. NO. 51 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES		<div><div>CORNELL UNIVERSITY</div><div>LEPP</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>							
		ERL INJECTOR CRYOMODULE 80 K SHIELD EXIT SECTION FRONT LEFT WALL										
		REV.	CHECKED BY: VM APPROVED BY: VM	DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE		7102-066 SH. NO. 51 OF 72		REV.	

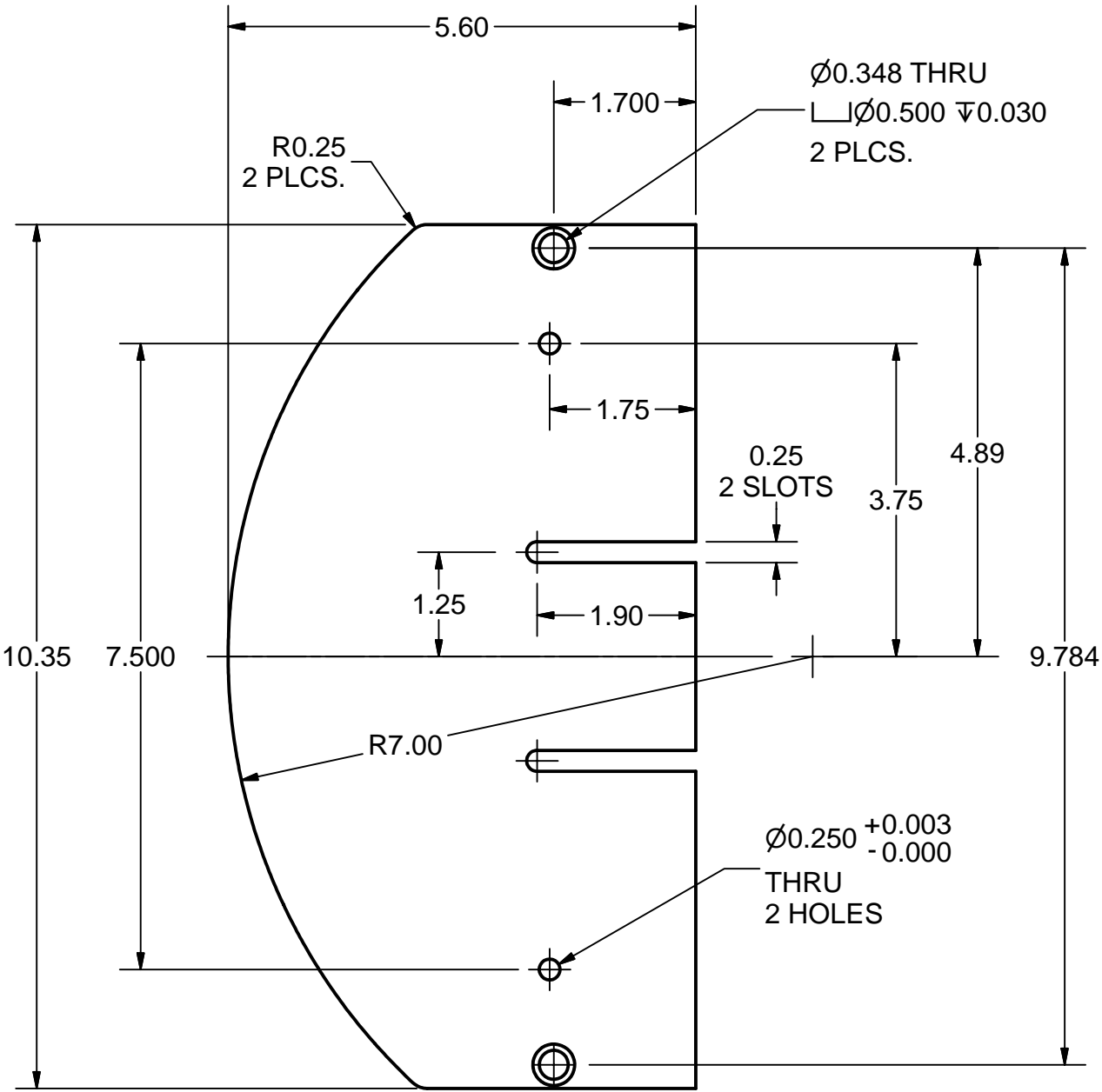
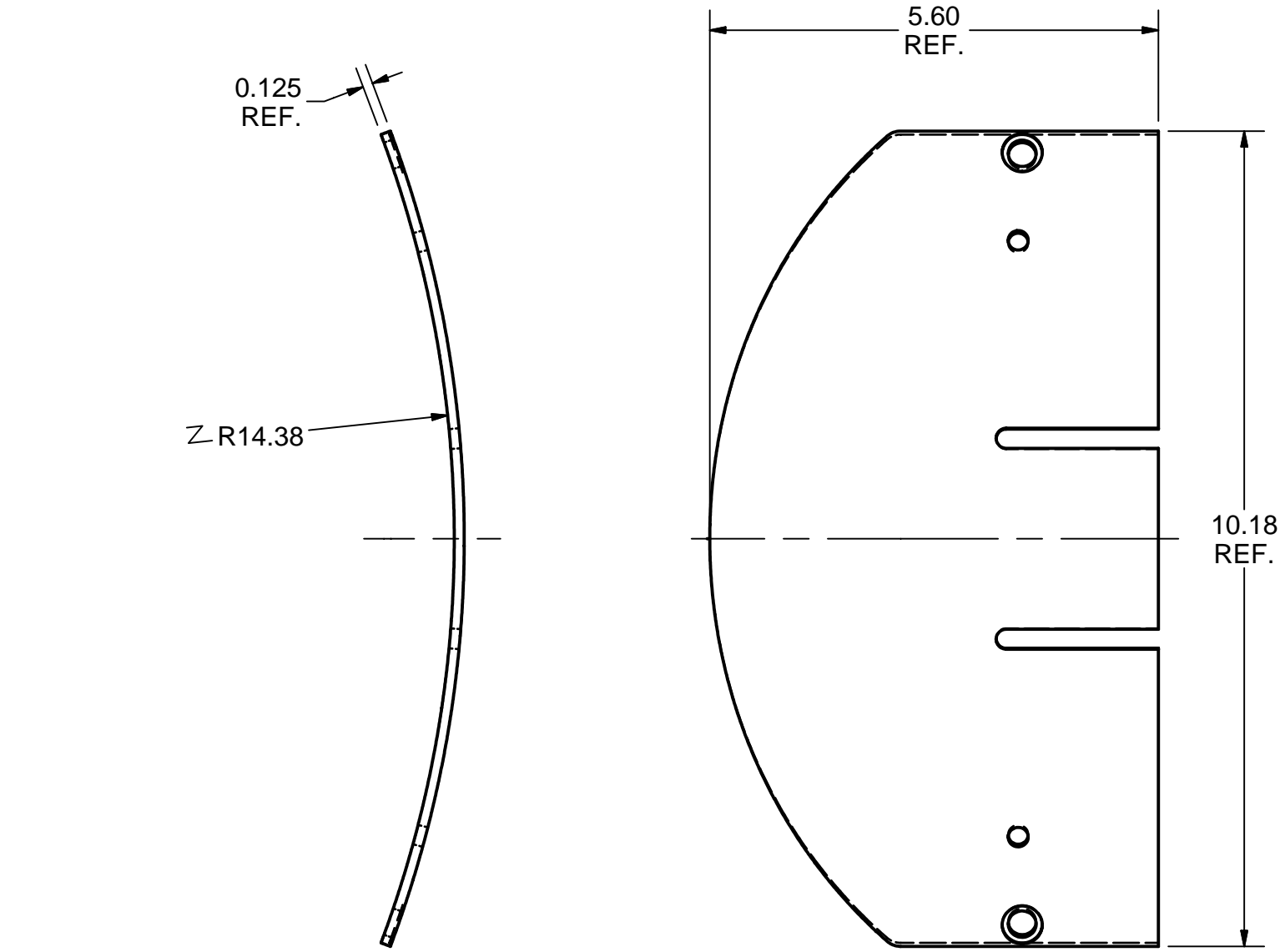
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



FLAT PATTERN

142 LEFT TUNER PORT BLANK COVER

FILE NAME: 7102-066
SHEET NO.: 53
DFT. SCALE: 1:2
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 5 PER ASSEMBLY
NOTES:



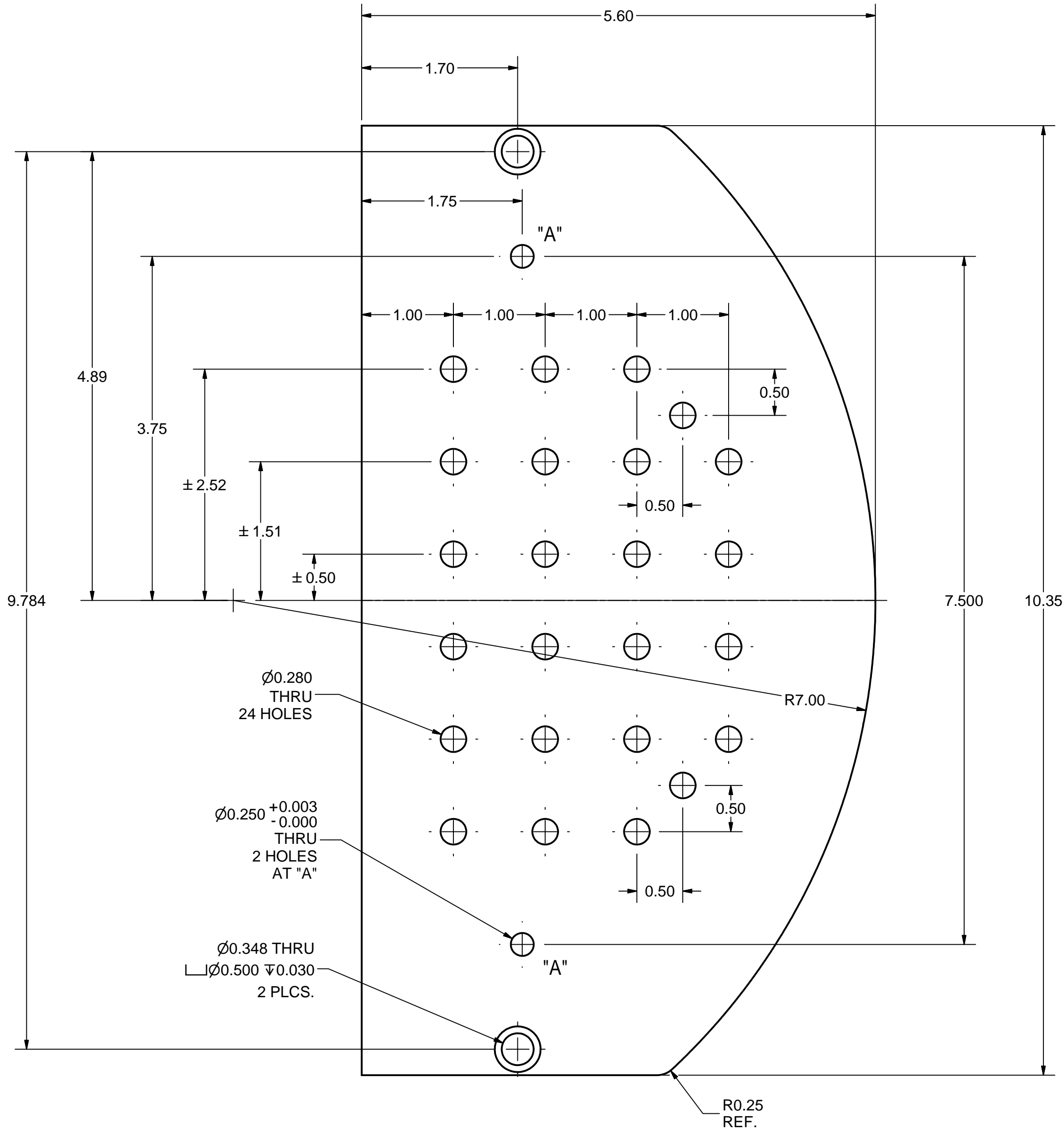
FLAT PATTERN

139 RIGHT TUNER PORT WIRE COVER

FILE NAME: 7102-066
SHEET NO.: 53
DFT. SCALE: 1:2
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 10 PER ASSEMBLY
NOTES:

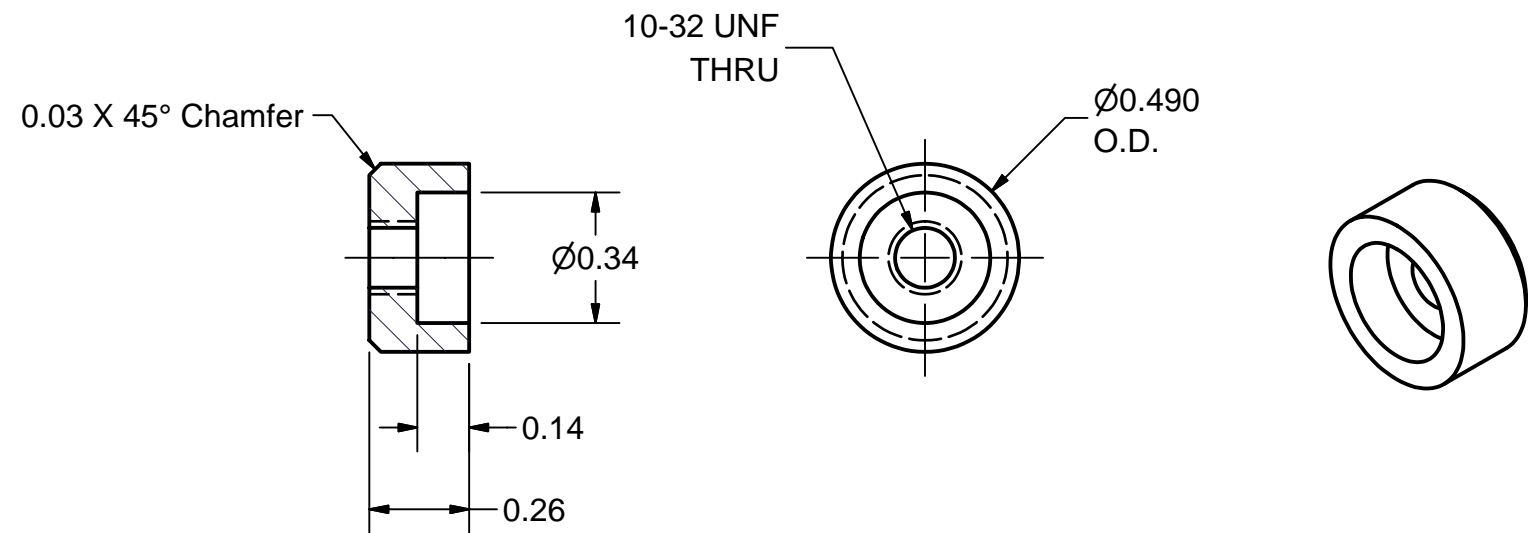
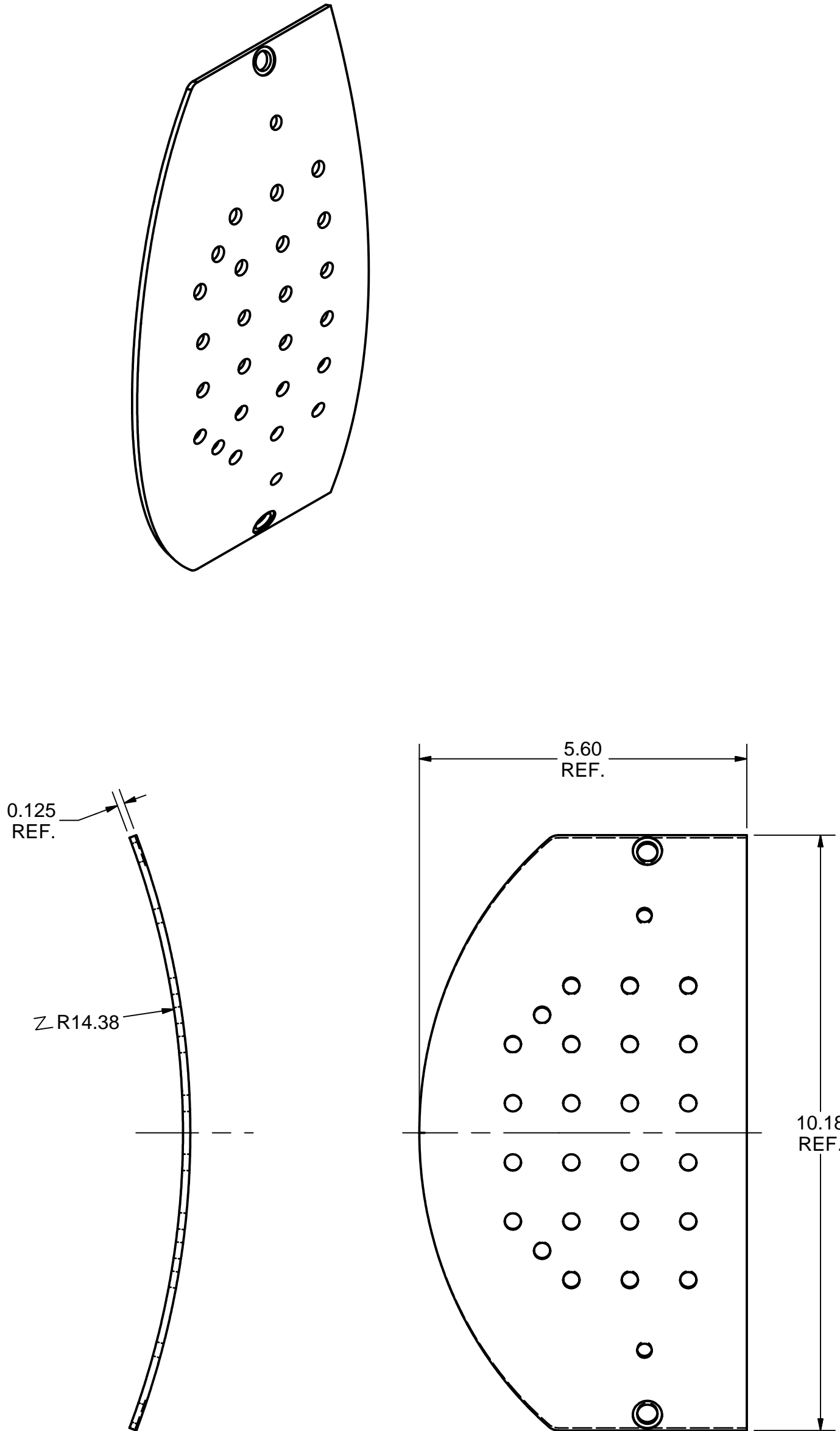
		ITEM		DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS		REV.	
D		PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										D	REV.	
7102-066 SH. NO. 53 OF 72		CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES	 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS											
				ERL INJECTOR CRYOMODULE 80 K SHIELD											
				TURN PORTS WIRE AND BLANK COVERS											
REV.			CHECKED BY: VM APPROVED BY: VM	DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE		D	7102-066 SH. NO. 53 OF 72		REV.

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	D4	5.60 dim was 5.62 (no model changes required)	8/23/07	TIO

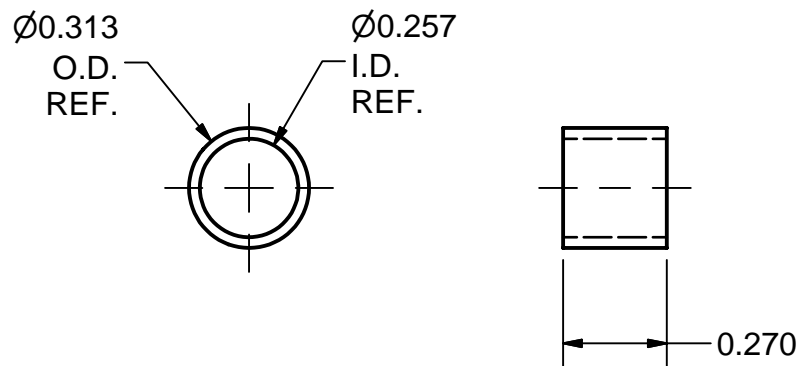


FLAT PATTERN
SCALE 1:1




141 RIGHT TUNER PORT CABLES COVER
FILE NAME: 7102-066
SHEET NO.: 54
DFT. SCALE: 1:2
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 5 PER ASSEMBLY
NOTES:



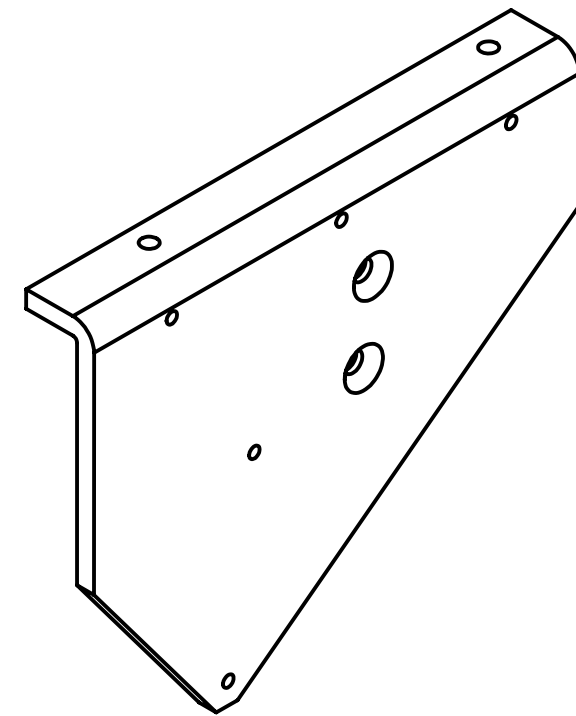
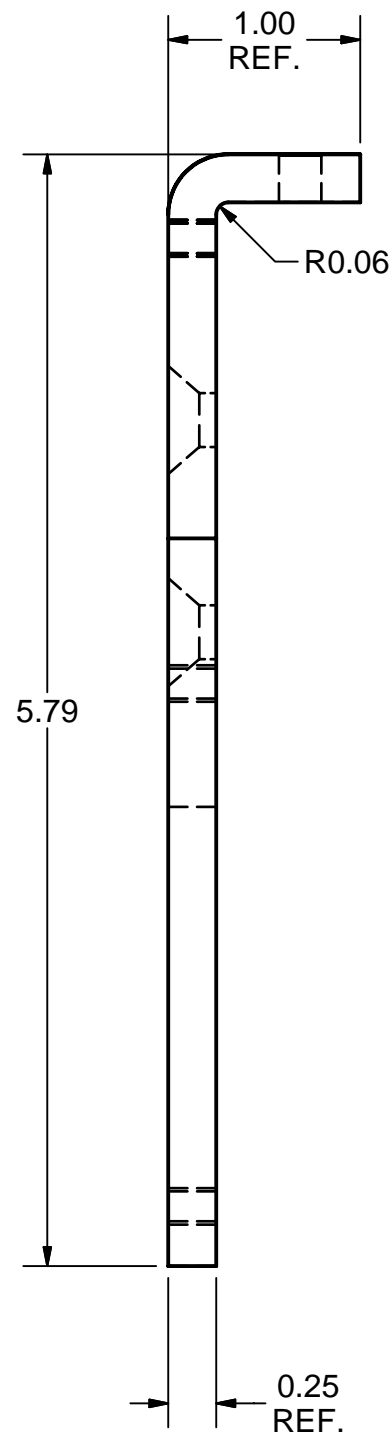
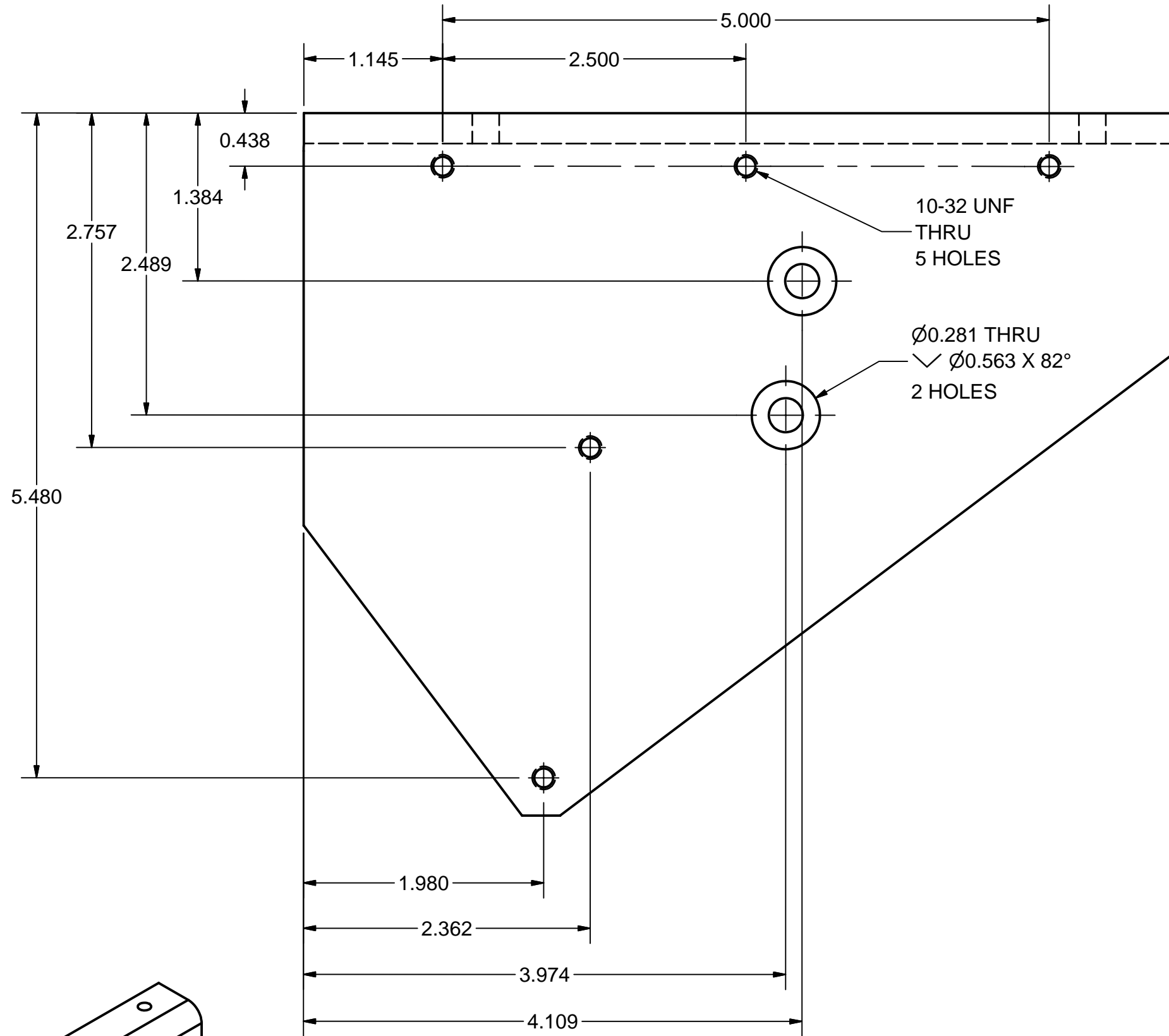
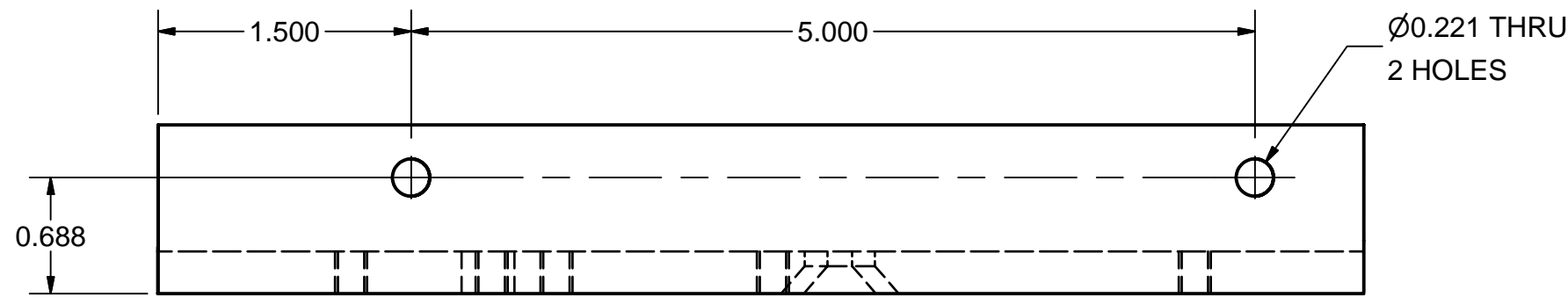
140 TUNER COVER BOSS
FILE NAME: 7102-066
SHEET NO.: 54
DFT. SCALE: 2:1
MATERIAL: 6063 (1100, 6061) ALUMINUM
QTY: 40 PER ASSEMBLY
NOTES:



29 SPACER TUBE
FILE NAME: 7102-066
SHEET NO.: 54
DFT. SCALE: 2:1
MATERIAL: 5/16" OD x 0.028"W 304 STAINLESS STEEL TUBE
QTY: 24 PER ASSEMBLY
NOTES: McMaster-Carr's 8989K461

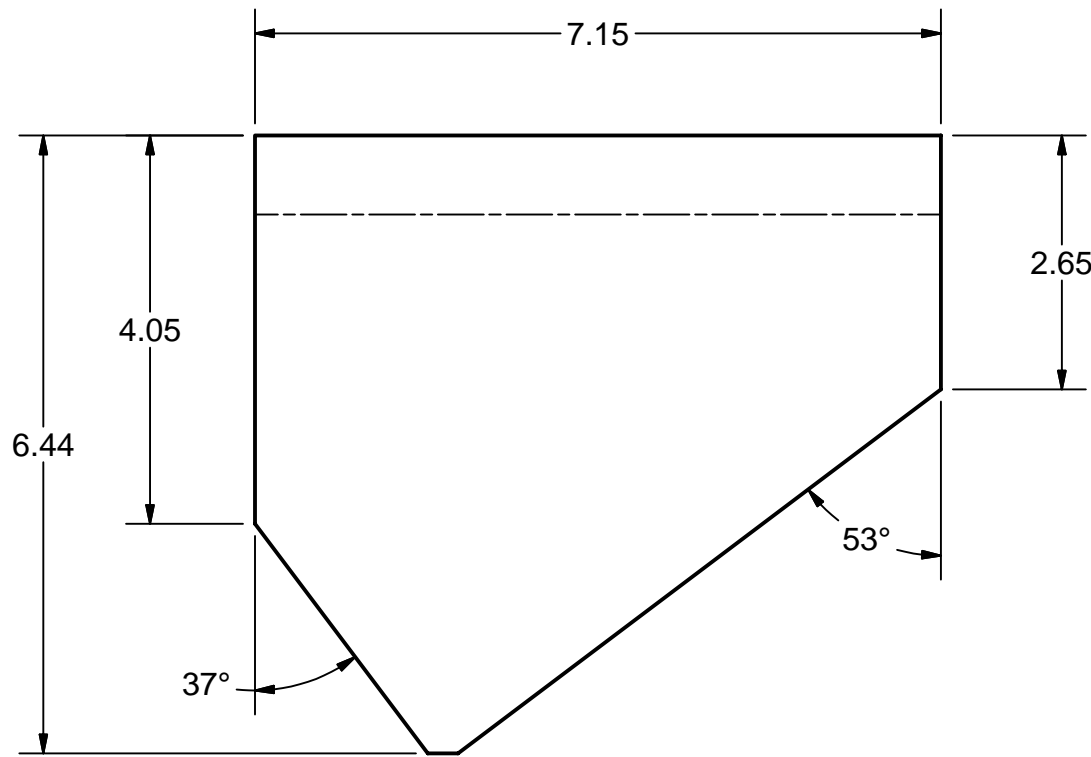
		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
					QUANTITY						
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw									
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 			<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD RIGHT TUNER PORT CABLES COVER, TUNER COVER BOSS, SPACER TUBE</div>						
SH. NO. 54 OF 72	7102-066										
	REV. A	CHECKED BY: VM APPROVED BY: VM	DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE	D	7102-066 SH. NO. 54 OF 72		REV. A	

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

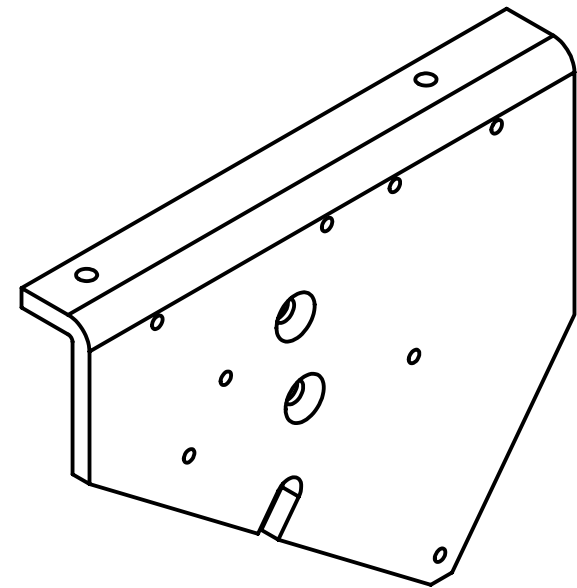
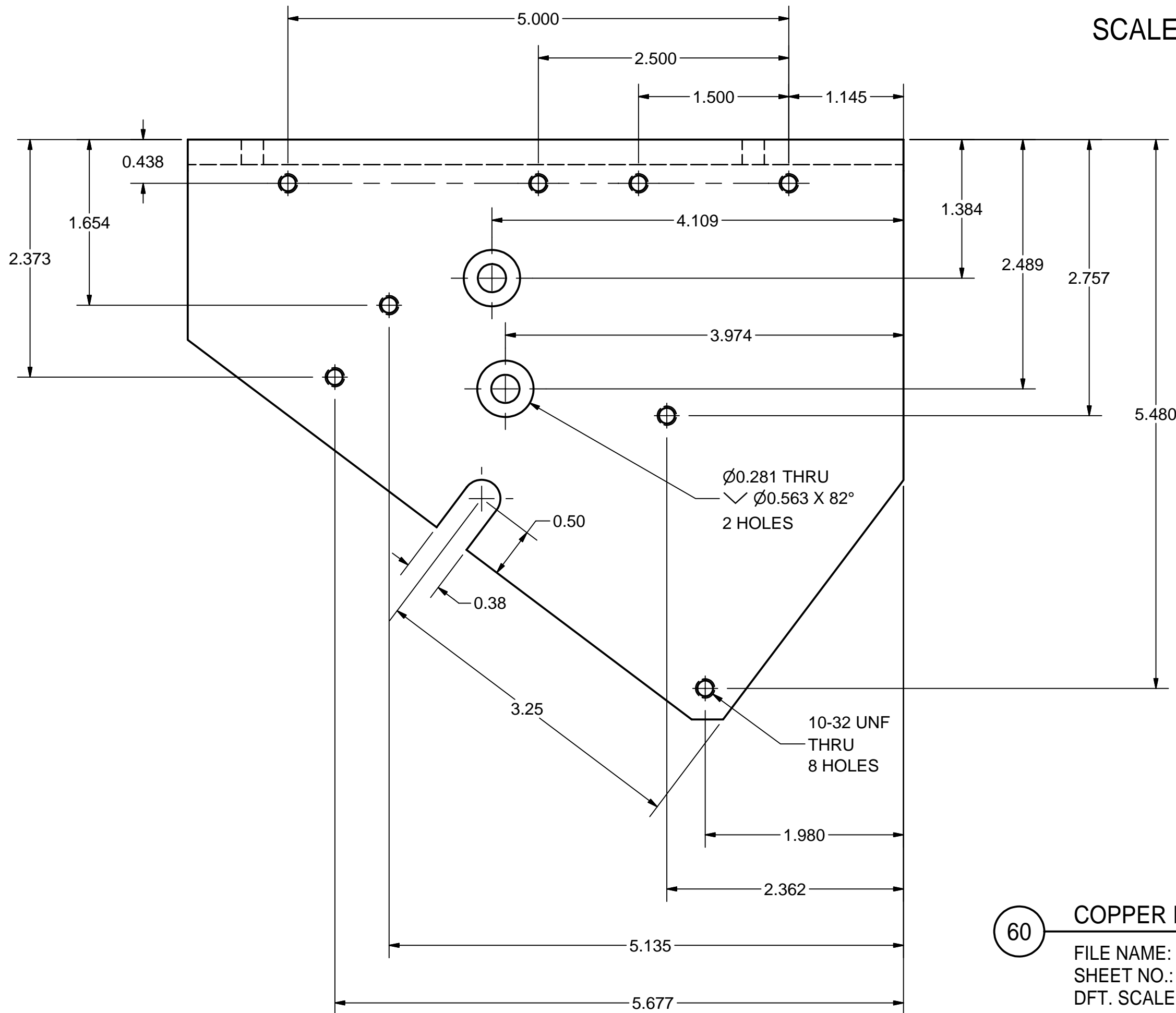
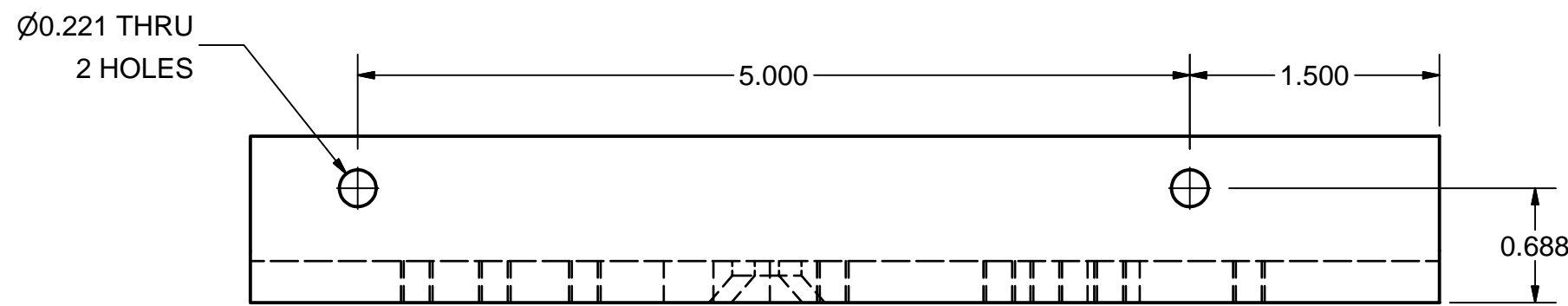


SCALE 1:2

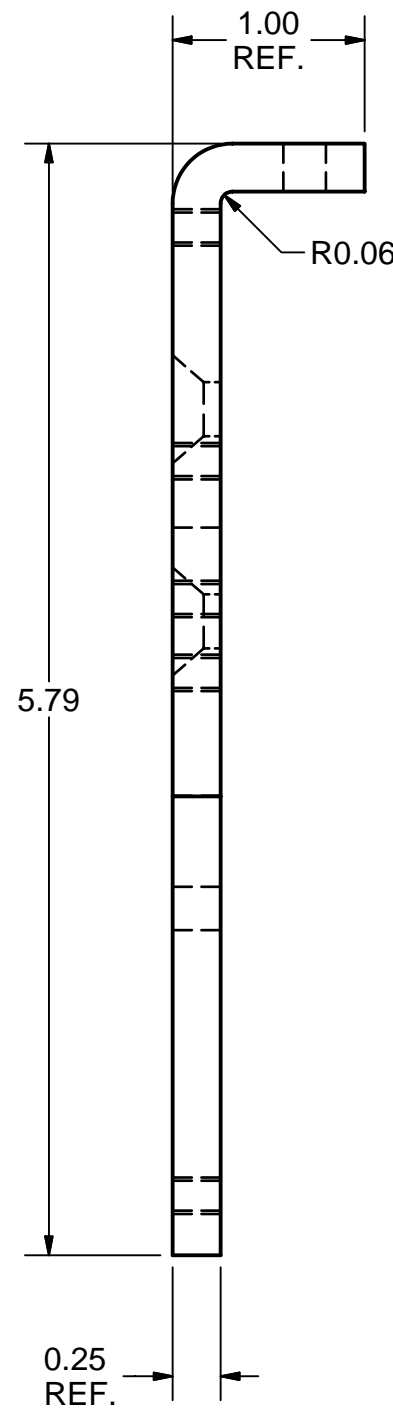
41 **COPPER PLATE 1**
FILE NAME: 7102-066
SHEET NO.: 55
DFT. SCALE: 1:1
MATERIAL: 1/4" OFHC COPPER SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE THIS SHEET FOR FLAT PATTERN.



FLAT PATTERN
(FOR ITEMS 41, 60, 75, 81)
SCALE 1:2



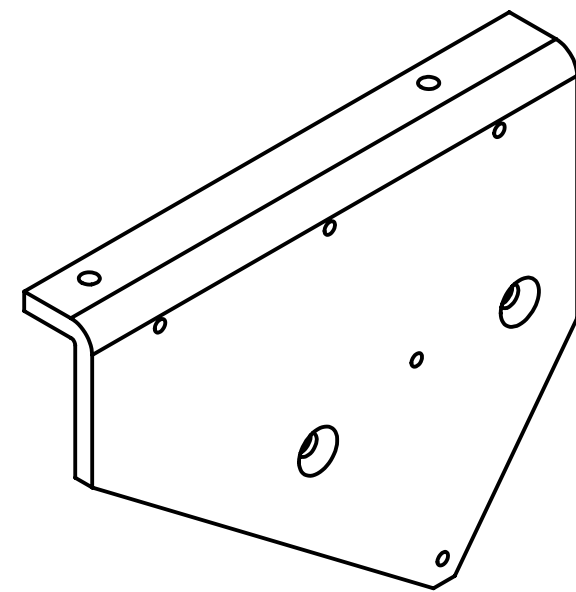
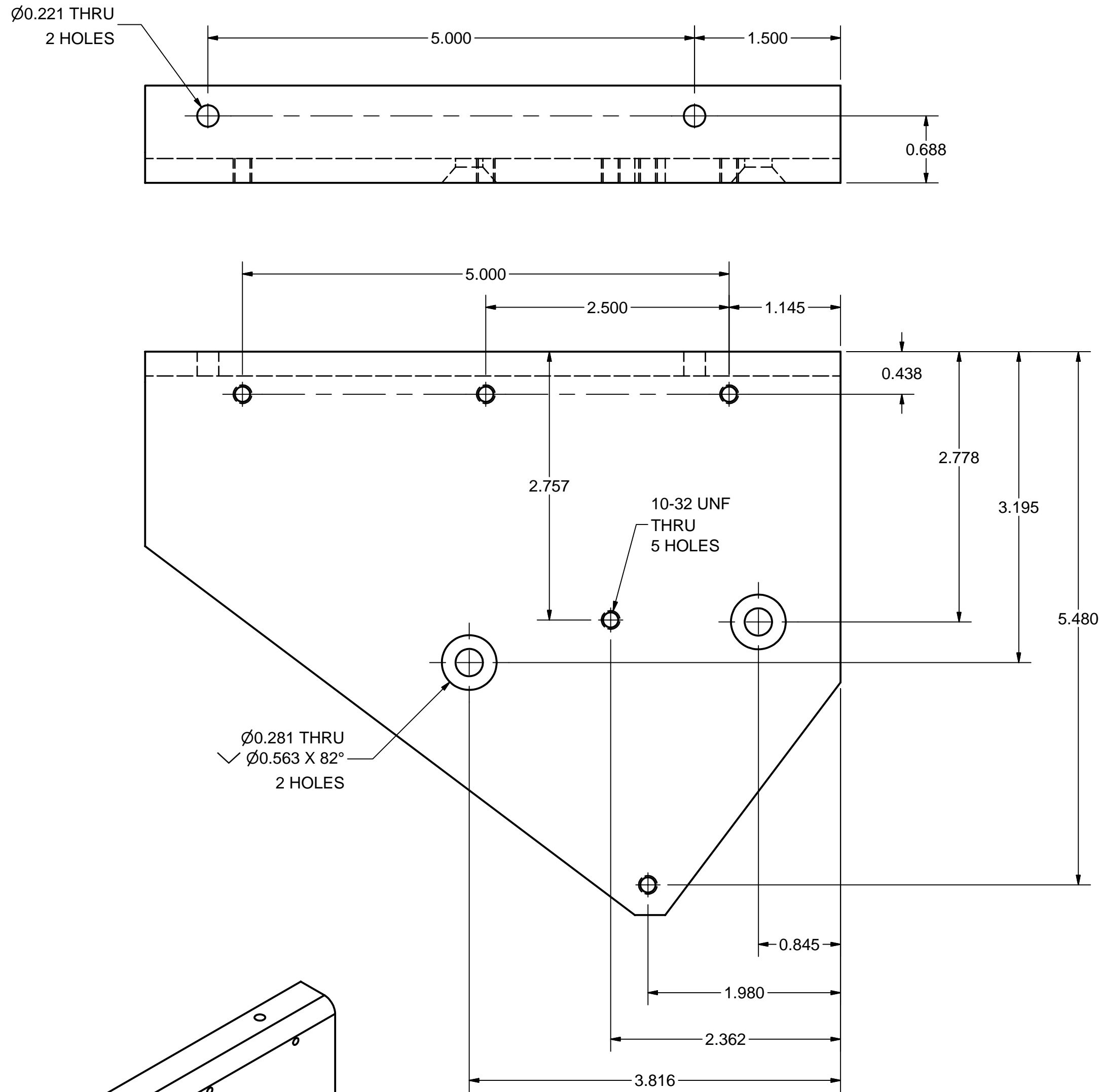
SCALE 1:2



60 **COPPER PLATE 2**
FILE NAME: 7102-066
SHEET NO.: 55
DFT. SCALE: 1:1
MATERIAL: 1/4" OFHC COPPER SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE THIS SHEET FOR FLAT PATTERN.

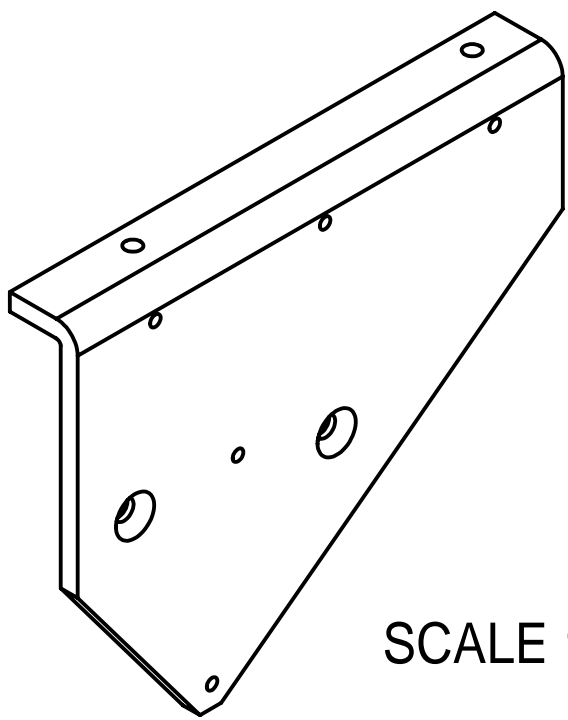
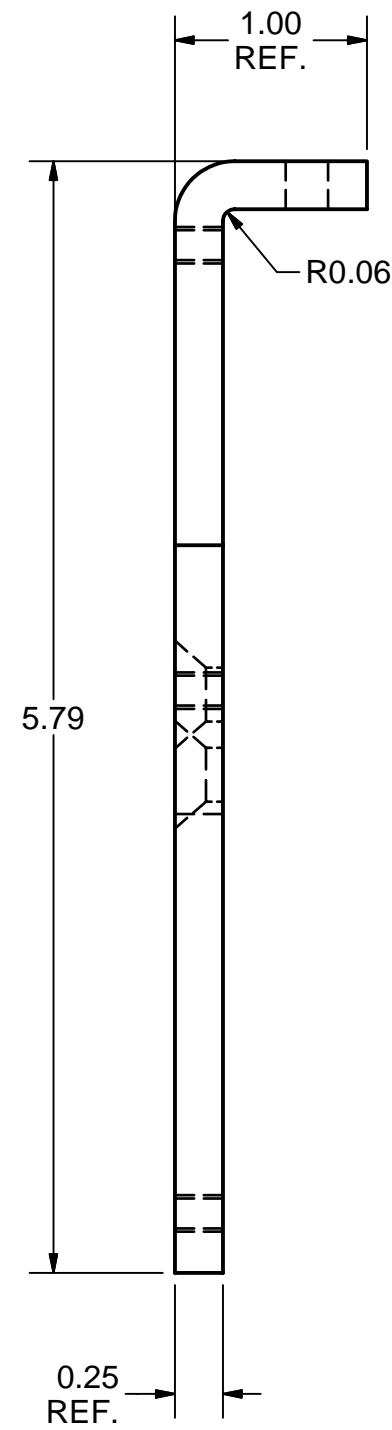
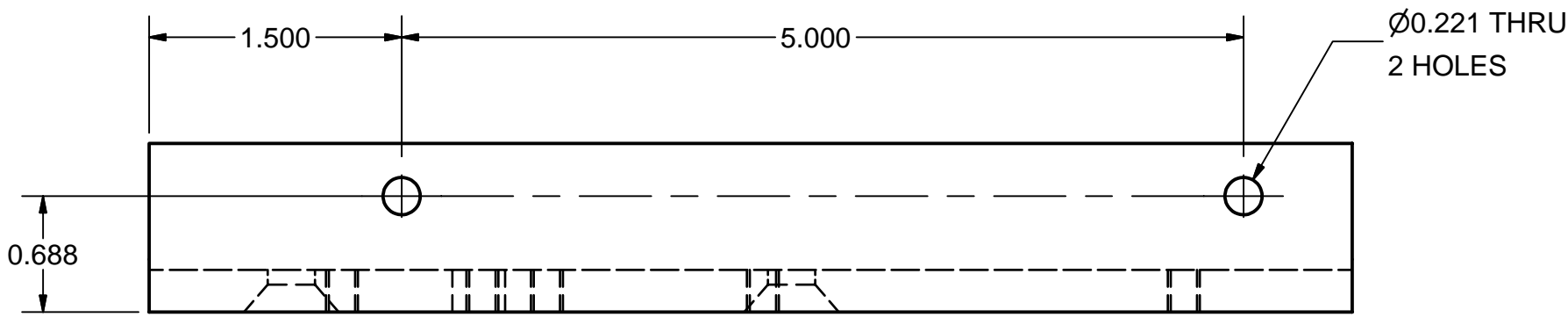
		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
					QUANTITY						
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw									
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES ✓			 CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853						
7102-066 SH. NO. 55 OF 72					ERL INJECTOR CRYOMODULE 80 K SHIELD COPPER PLATES 1 AND 2						
REV.	CHECKED BY: VM	DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007	SCALE	D	7102-066		REV.
	APPROVED BY: VM								SH. NO. 55 OF 72		

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.





SCALE 1:2

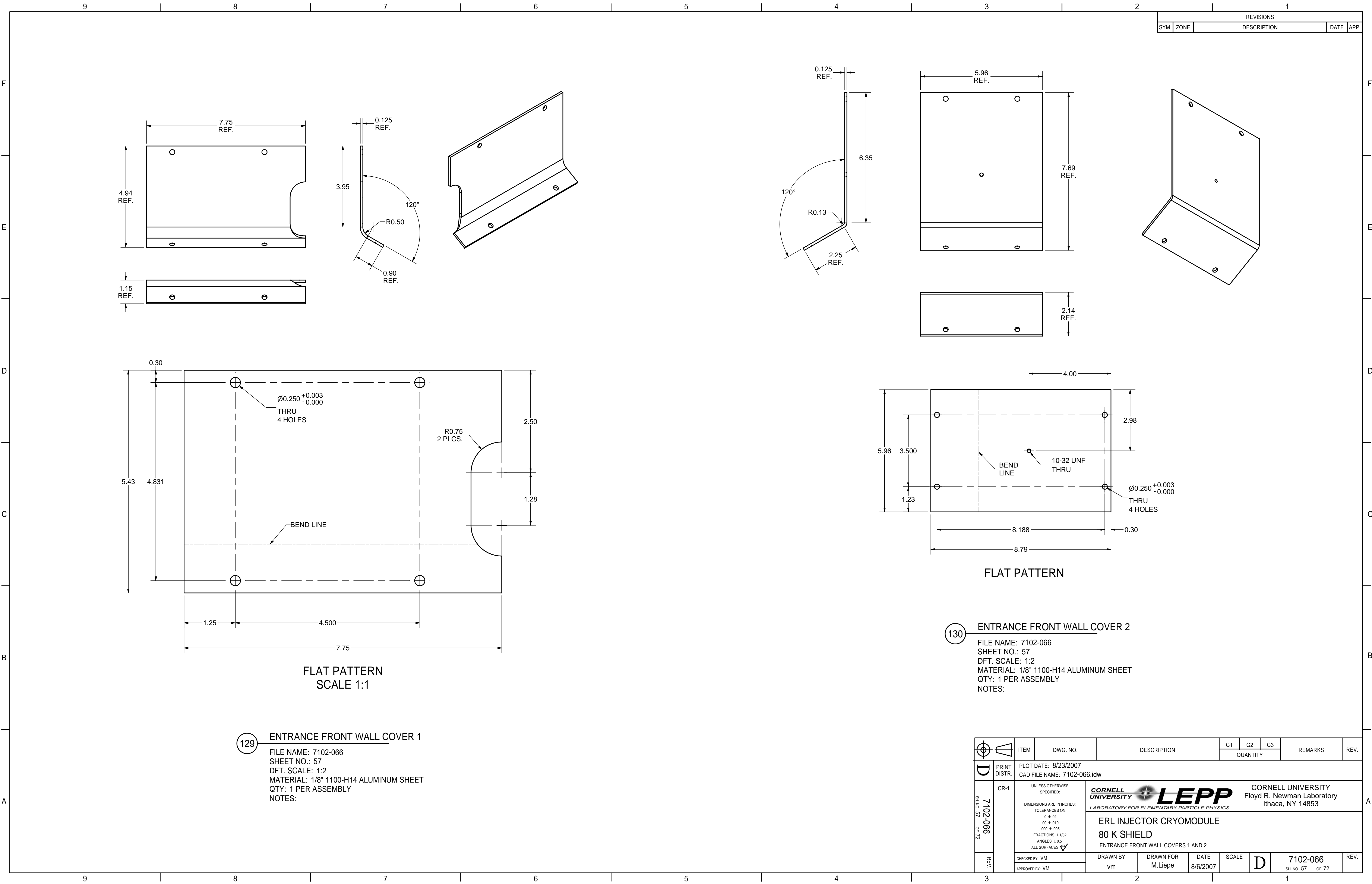
75 **COPPER PLATE 3**
FILE NAME: 7102-066
SHEET NO.: 56
DFT. SCALE: 1:1
MATERIAL: 1/4" OFHC COPPER SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE PREVIOUS SHEET FOR FLAT PATTERN.



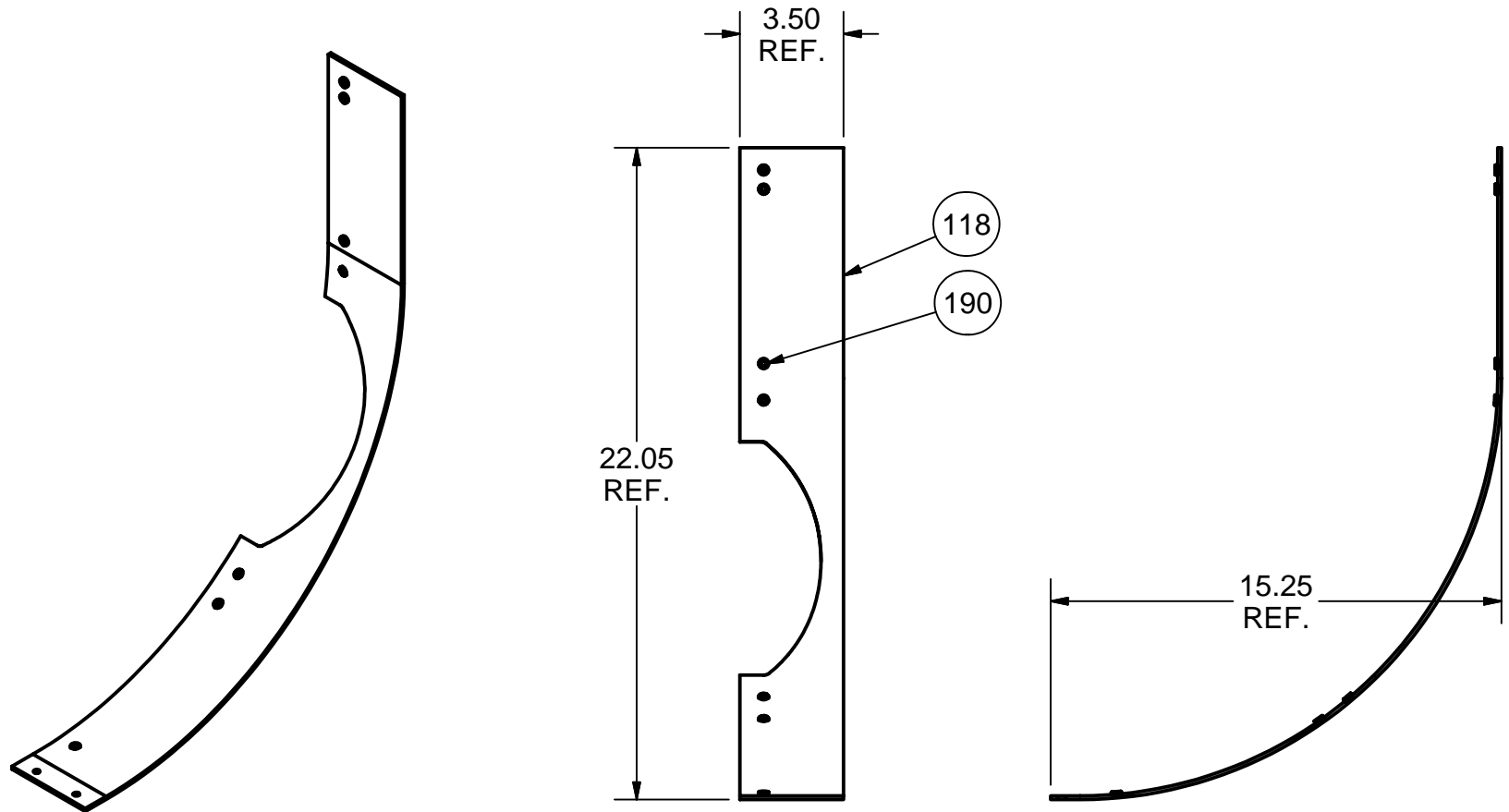
SCALE 1:2

81 **COPPER PLATE 4**
FILE NAME: 7102-066
SHEET NO.: 56
DFT. SCALE: 1:1
MATERIAL: 1/4" OFHC COPPER SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. SEE PREVIOUS SHEET FOR FLAT PATTERN.

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
					QUANTITY						
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw									
	7102-066 SH. NO. 56 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES	<div><div> </div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL INJECTOR CRYOMODULE 80 K SHIELD COPPER PLATES 3 AND 4</div>							
CHECKED BY: VM				DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066	REV.	
APPROVED BY: VM				vm	M.Liepe	8/6/2007					SH. NO. 56 OF 72

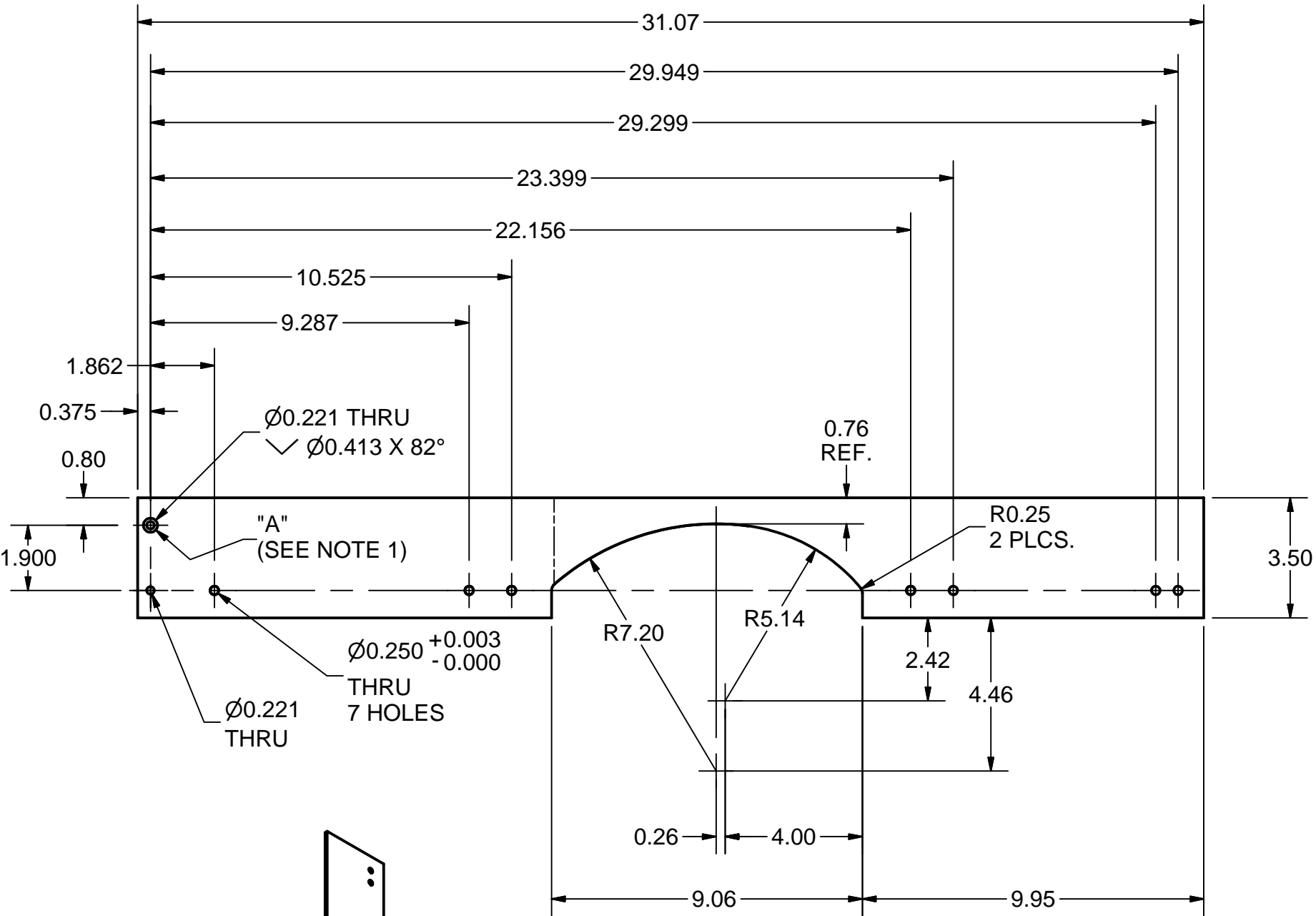


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



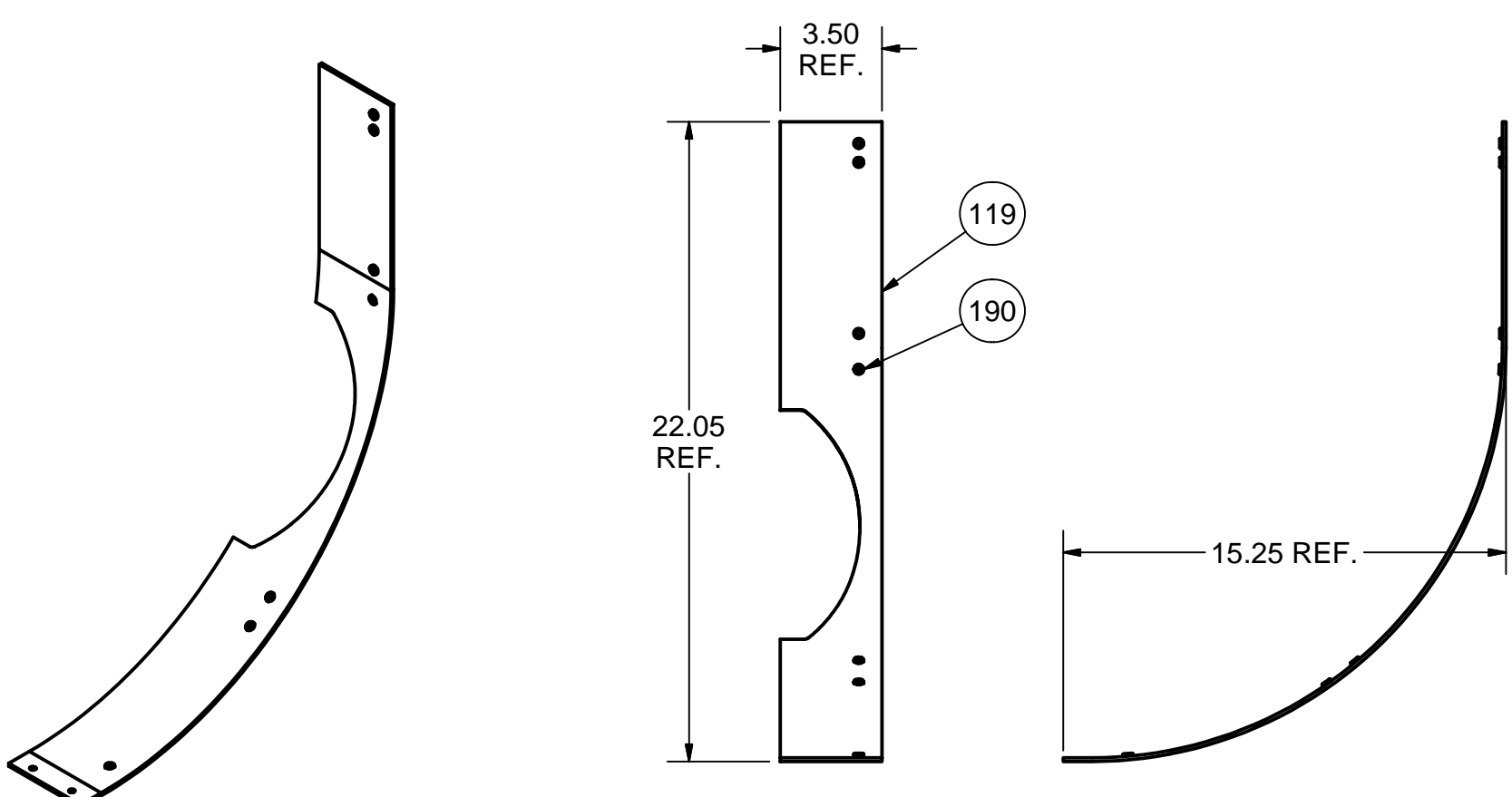
190	Purchased	10-32 PEM NUT, CLSS-032-3	7		St.Steel	
118	7102-066 (Sh.59)	SIDE COVER STRIP 1	1			
114	7102-066 (Sh.59)	SIDE COVER STRIP 1 SUB-ASM	X			

114 SIDE COVER STRIP 1 SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 59
DFT. SCALE: 1:6
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIVALENT)
TO INSTALL PEM NUTS ITEM 190.



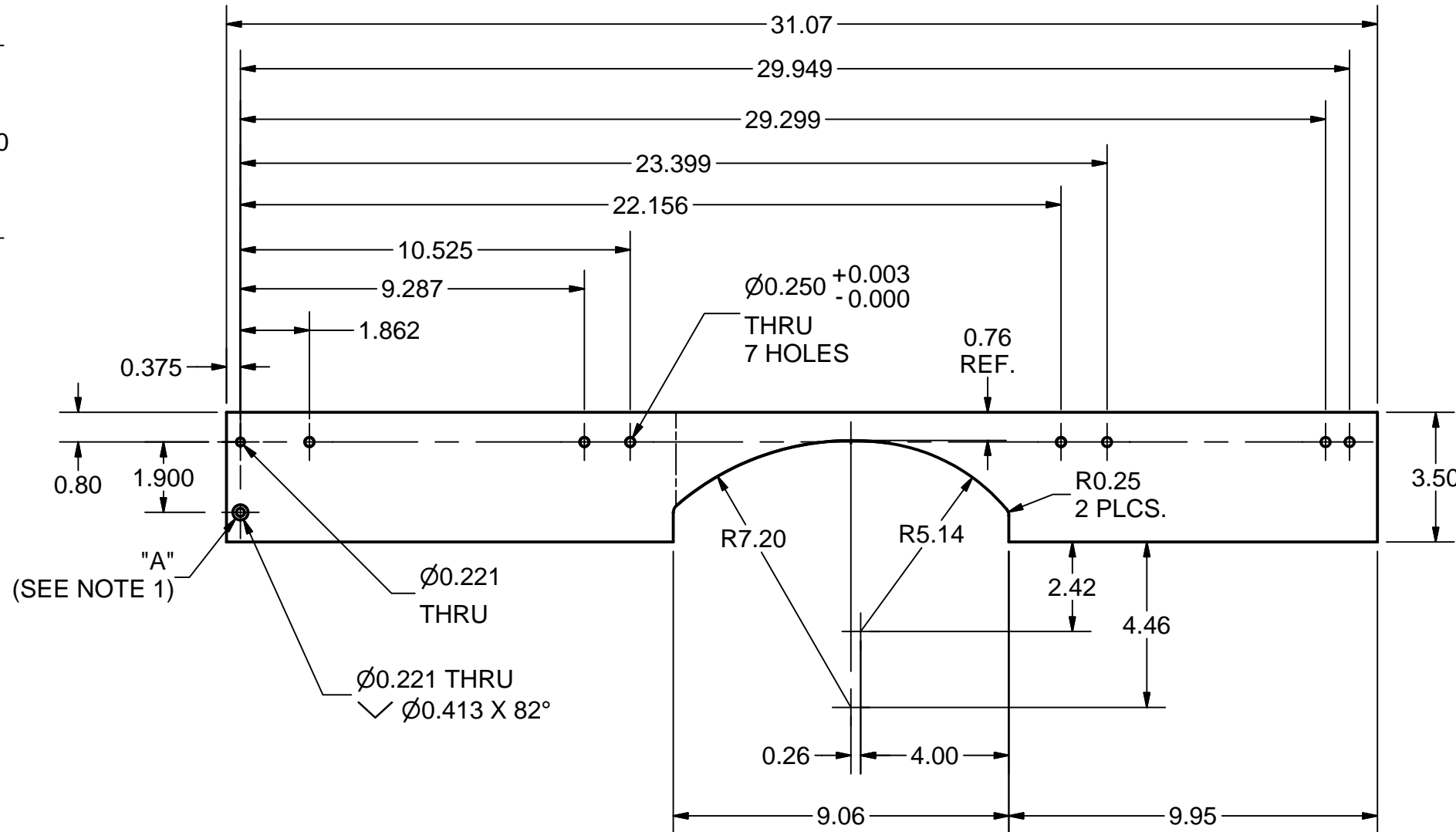
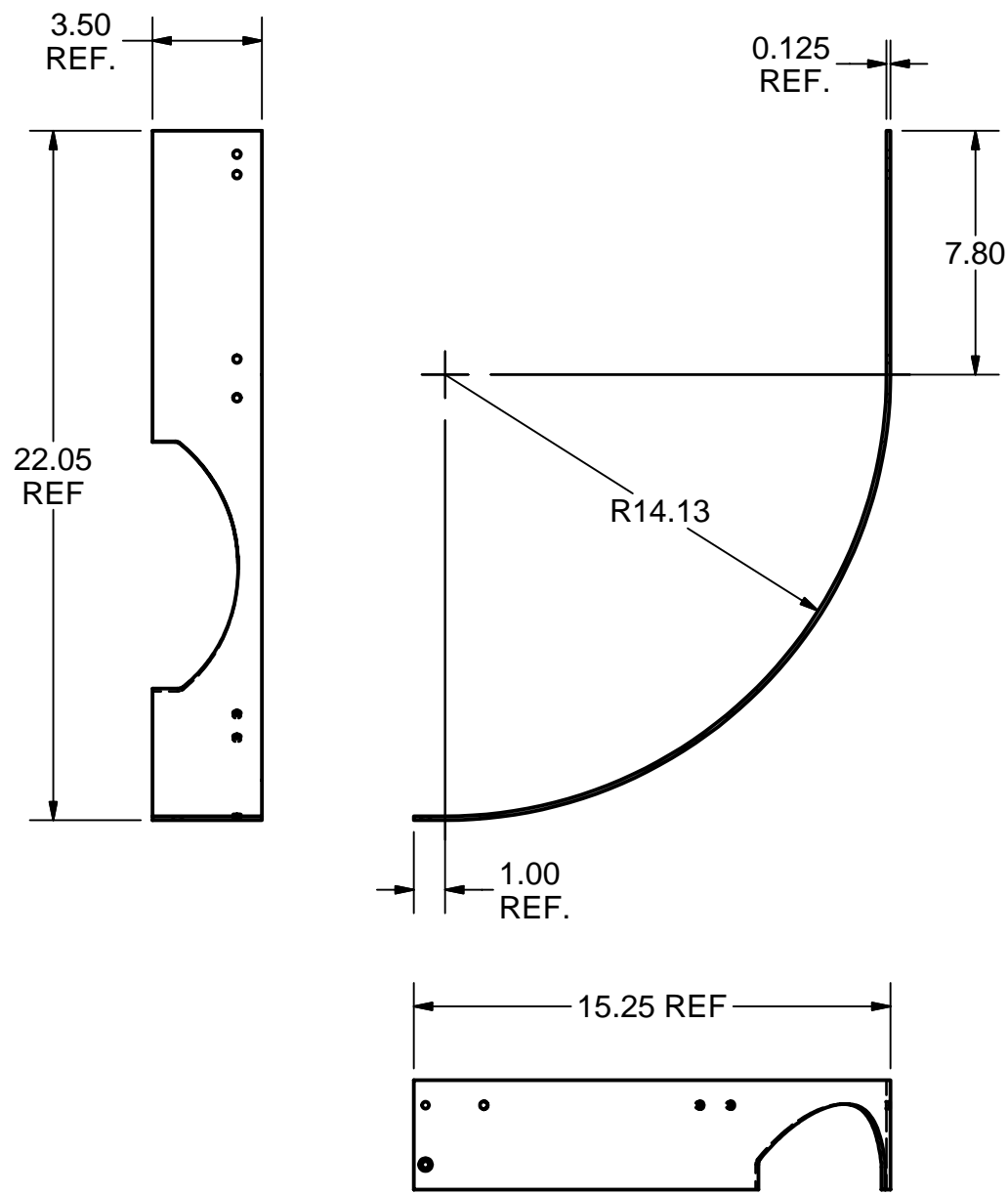
FLAT PATTERN
SCALE 1:4

118 SIDE COVER STRIP 1
FILE NAME: 7102-066
SHEET NO.: 59
DFT. SCALE: 1:6
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. FLAT PATTERN OF PART ITEM 120 (SEE NEXT SHEET)
IS SIMILAR TO THIS ONE BUT DOES NOT HAVE HOLE "A".



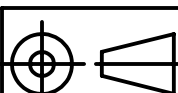


190	Purchased	10-32 PEM NUT, CLSS-032-3	7		St.Steel	
119	7102-066 (Sh.59)	SIDE COVER STRIP 2	1			
115	7102-066 (Sh.59)	SIDE COVER STRIP 2 SUB-ASM	X			

115 SIDE COVER STRIP 2 SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 59
DFT. SCALE: 1:6
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIVALENT)
TO INSTALL PEM NUTS ITEM 190.



FLAT PATTERN
SCALE 1:4

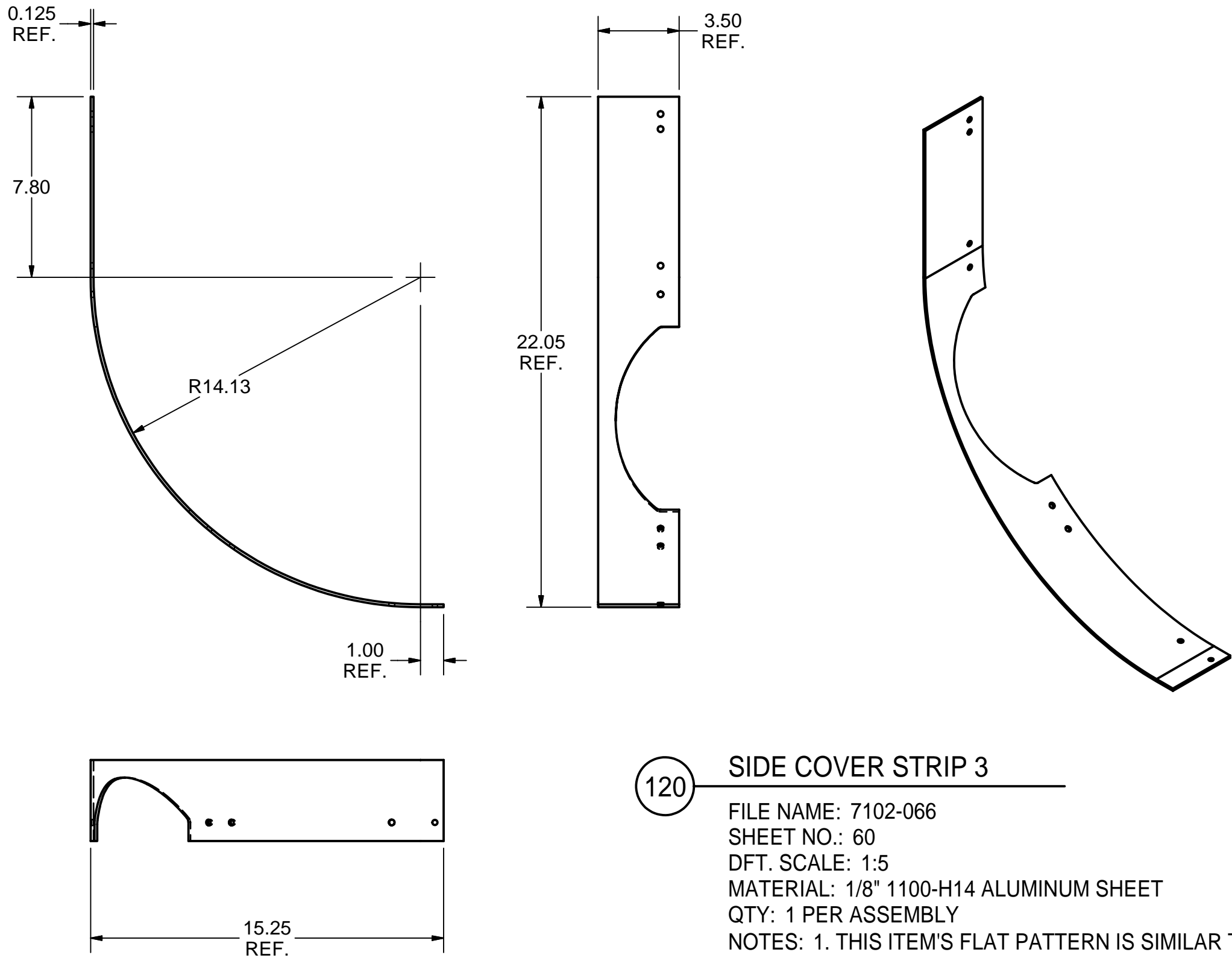
119 SIDE COVER STRIP 2
FILE NAME: 7102-066
SHEET NO.: 59
DFT. SCALE: 1:6
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. FLAT PATTERN OF PART ITEM 121 (SEE NEXT SHEET)
IS SIMILAR TO THIS ONE BUT DOES NOT HAVE HOLE "A".

		ITEM		DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS		REV.
									QUANTITY					
<div>D</div>	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw												
	CR-1	UNLESS OTHERWISE SPECIFIED:		<div><div>CORNELL UNIVERSITY</div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>										
		DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 												
				ERL INJECTOR CRYOMODULE 80 K SHIELD SIDE COVER STRIPS 1 AND 2										
	CHECKED BY: VM	DRAWN BY		DRAWN FOR		DATE		SCALE		<div>D</div>	7102-066		REV.	
REV.	APPROVED BY: VM	vm		M.Liepe		8/6/2007					SH. NO. 59 OF 72			

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

190	Purchased	10-32 PEM NUT, CLSS-032-3	7		St.Steel	
120	7102-066 (Sh.60)	SIDE COVER STRIP 3	1			
116	7102-066 (Sh.60)	SIDE COVER STRIP 3 SUB-ASM	X			

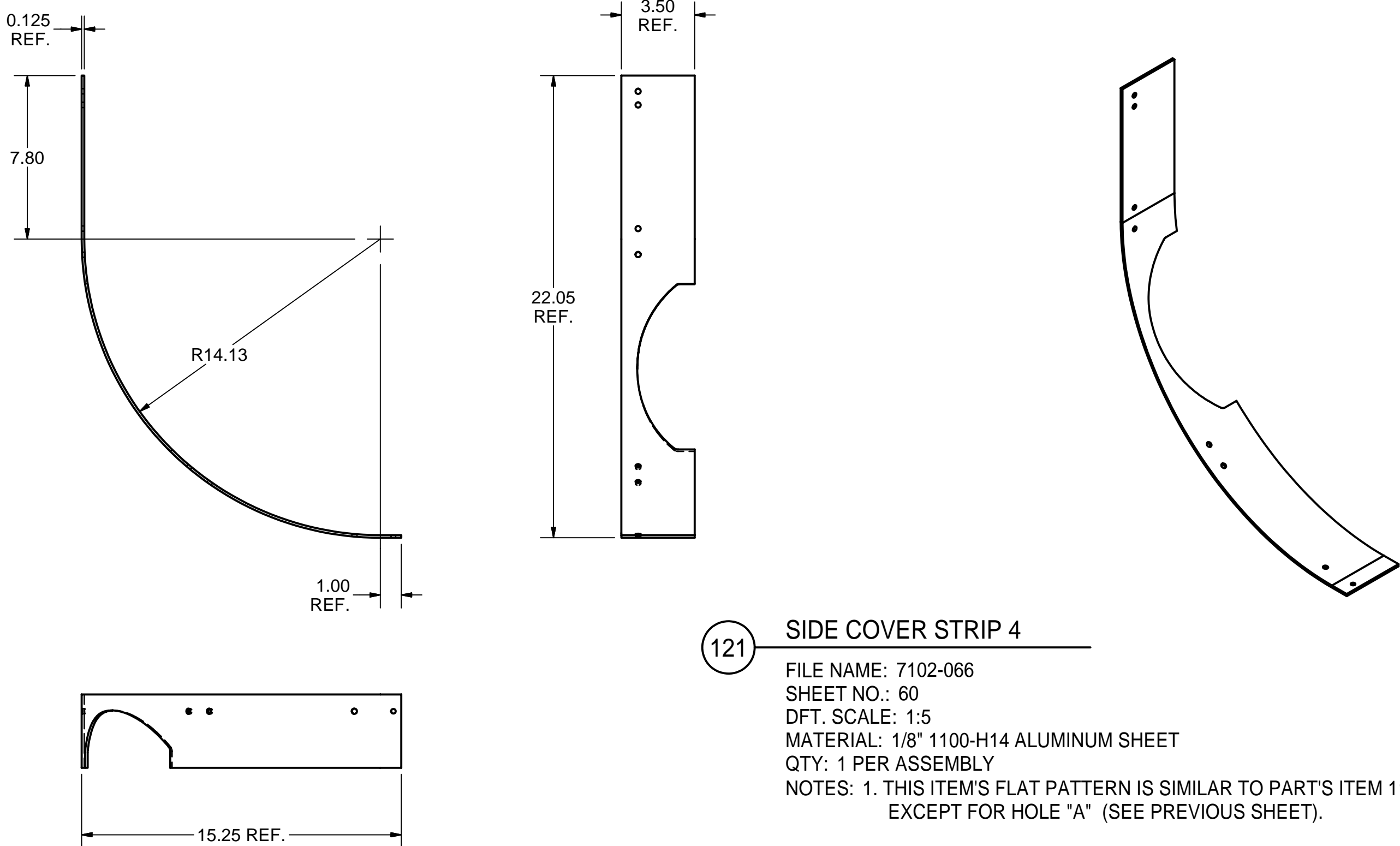
116 SIDE COVER STRIP 3 SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 60
DFT. SCALE: 1:5
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIVALENT)
TO INSTALL PEM NUTS ITEM 190.





120 SIDE COVER STRIP 3
FILE NAME: 7102-066
SHEET NO.: 60
DFT. SCALE: 1:5
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. THIS ITEM'S FLAT PATTERN IS SIMILAR TO PART'S ITEM 118
EXCEPT FOR HOLE "A" (SEE PREVIOUS SHEET).

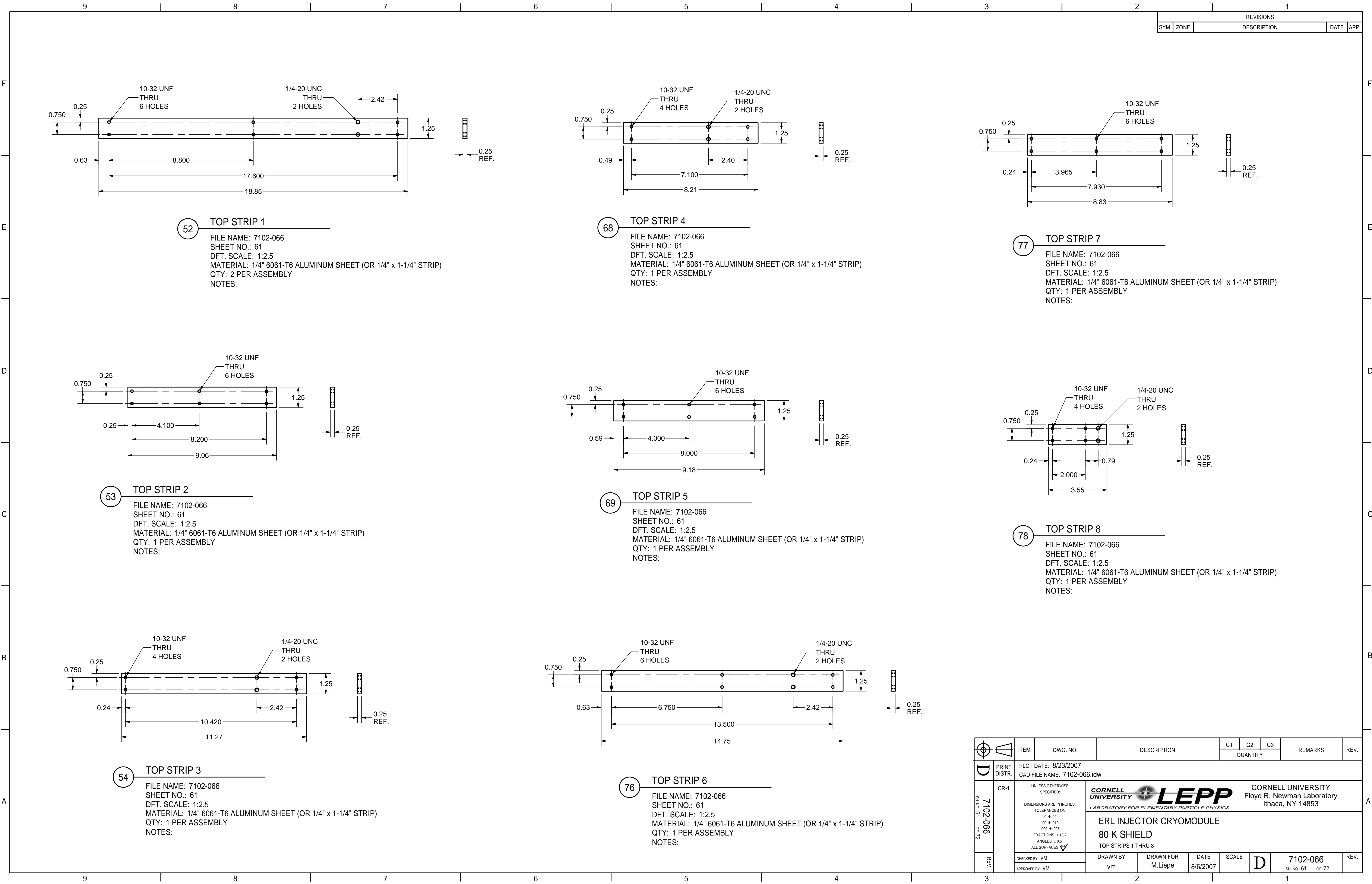
190	Purchased	10-32 PEM NUT, CLSS-032-3	7		St.Steel	
121	7102-066 (Sh.60)	SIDE COVER STRIP 4	1			
117	7102-066 (Sh.60)	SIDE COVER STRIP 4 SUB-ASM	X			

117 SIDE COVER STRIP 4 SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 60
DFT. SCALE: 1:5
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIVALENT)
TO INSTALL PEM NUTS ITEM 190.








121 SIDE COVER STRIP 4
FILE NAME: 7102-066
SHEET NO.: 60
DFT. SCALE: 1:5
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES: 1. THIS ITEM'S FLAT PATTERN IS SIMILAR TO PART'S ITEM 119
EXCEPT FOR HOLE "A" (SEE PREVIOUS SHEET).

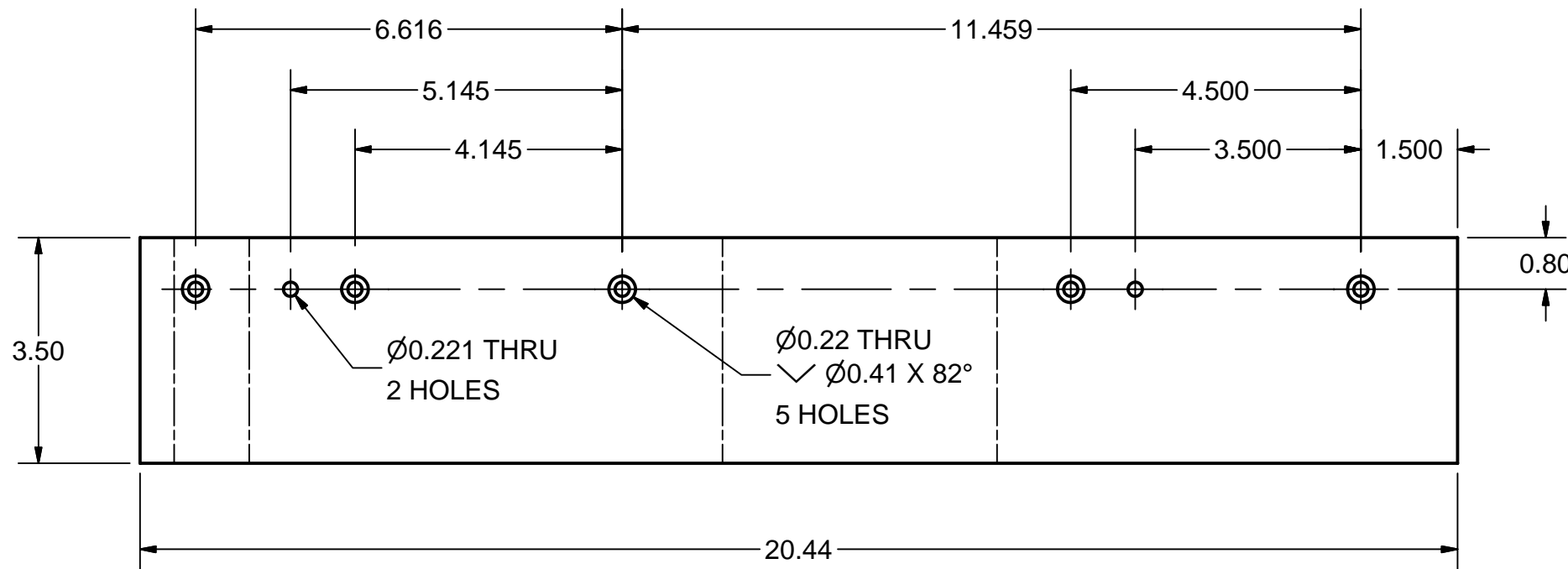
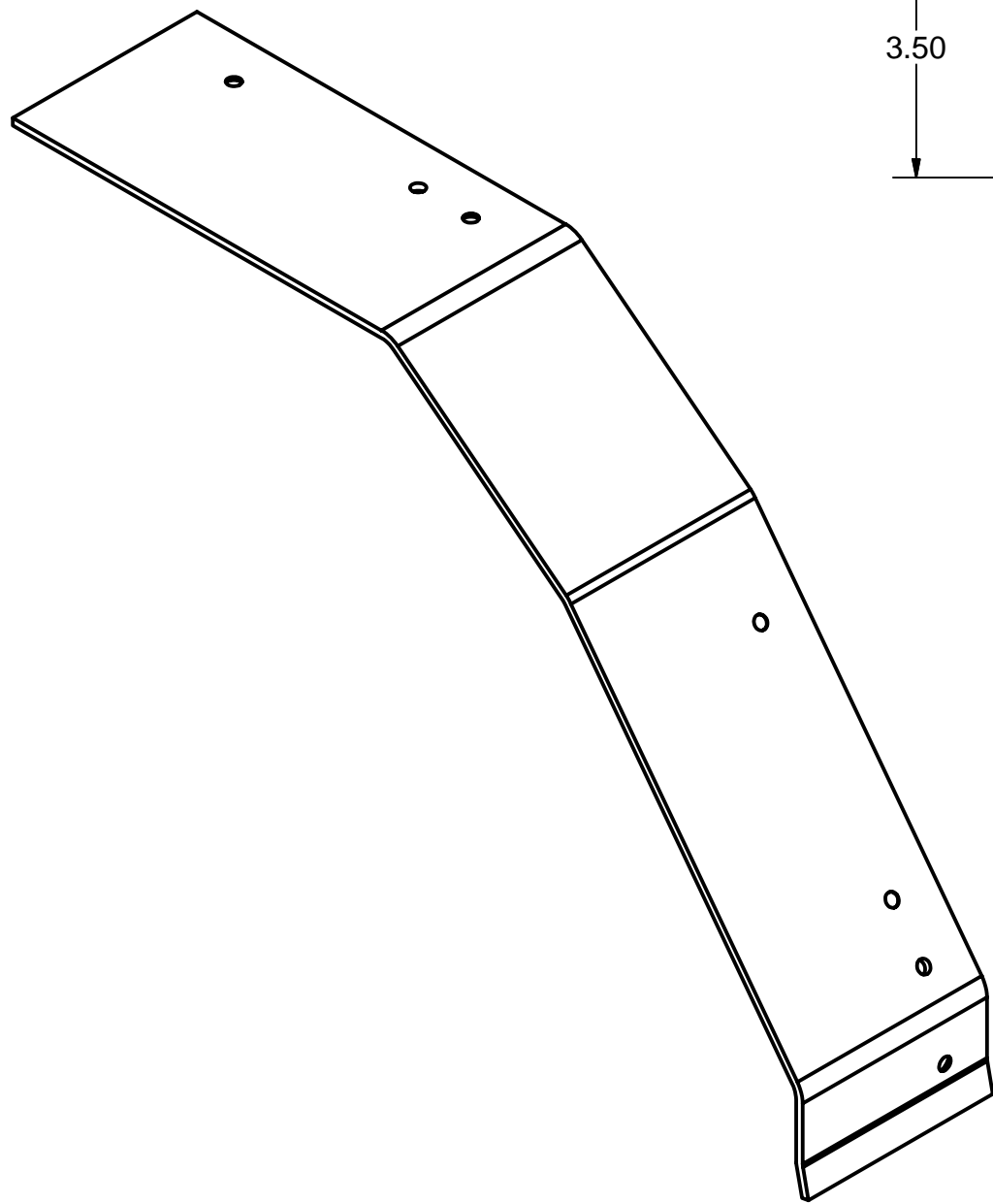
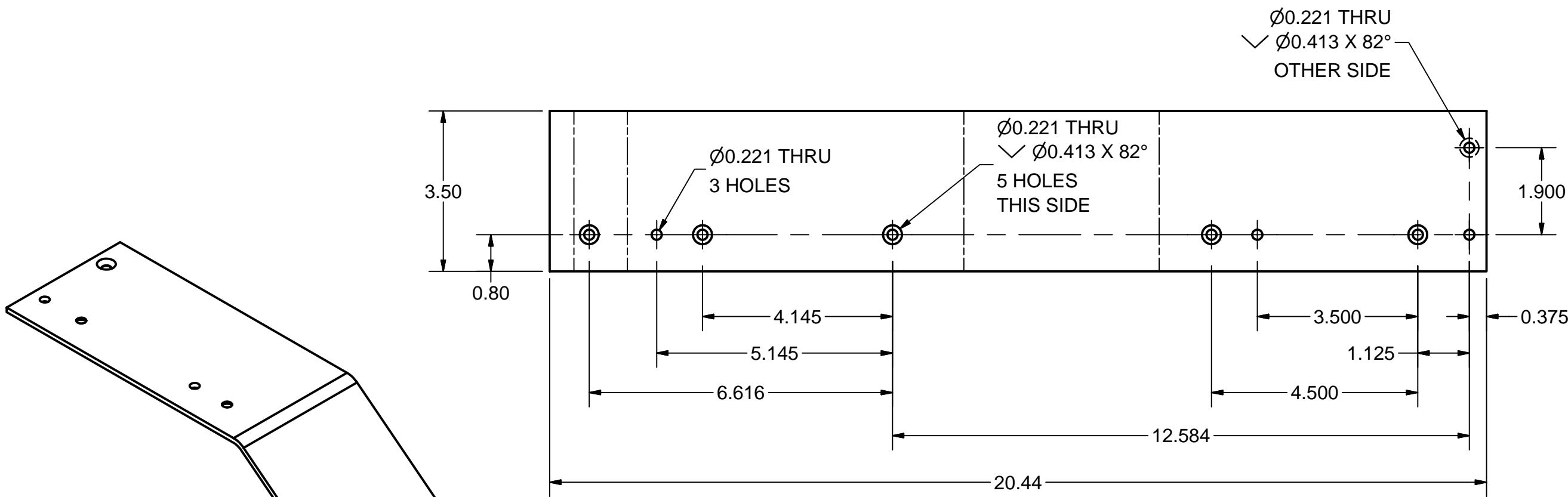
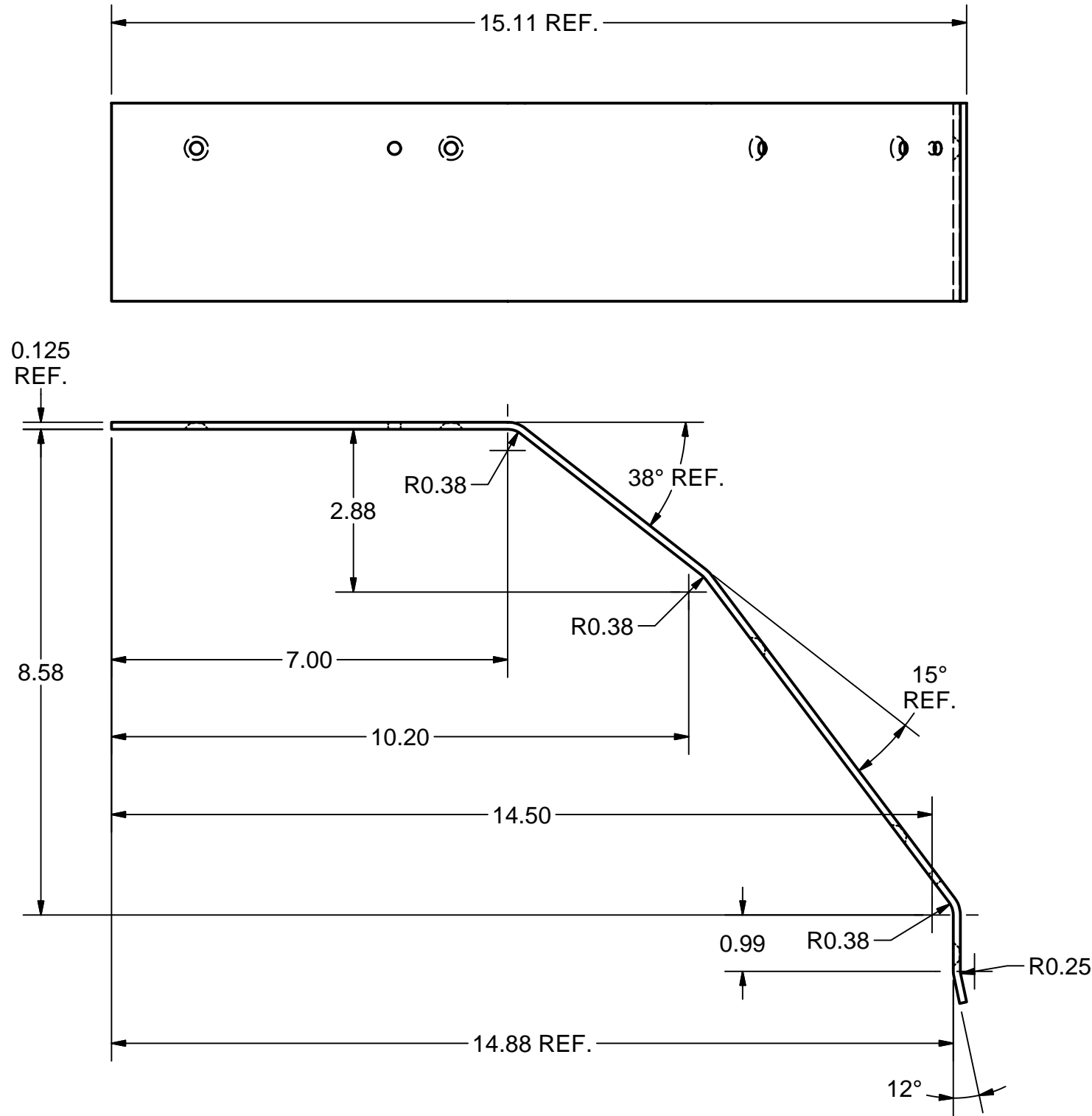
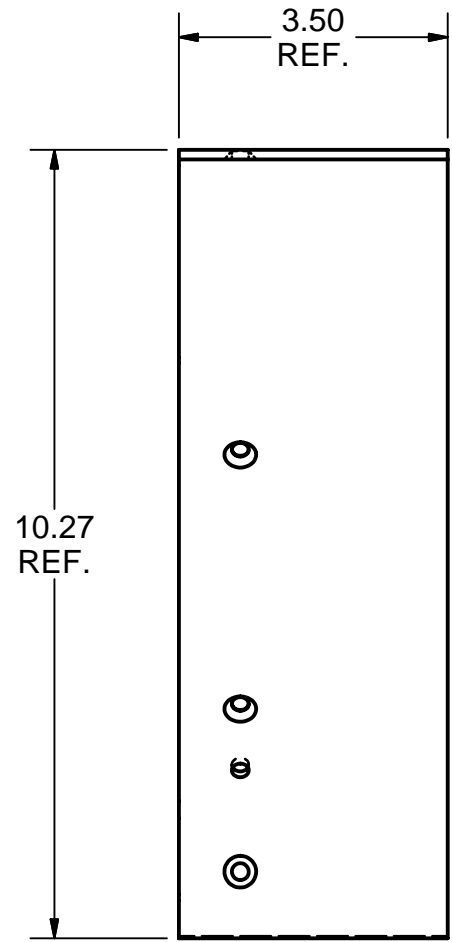
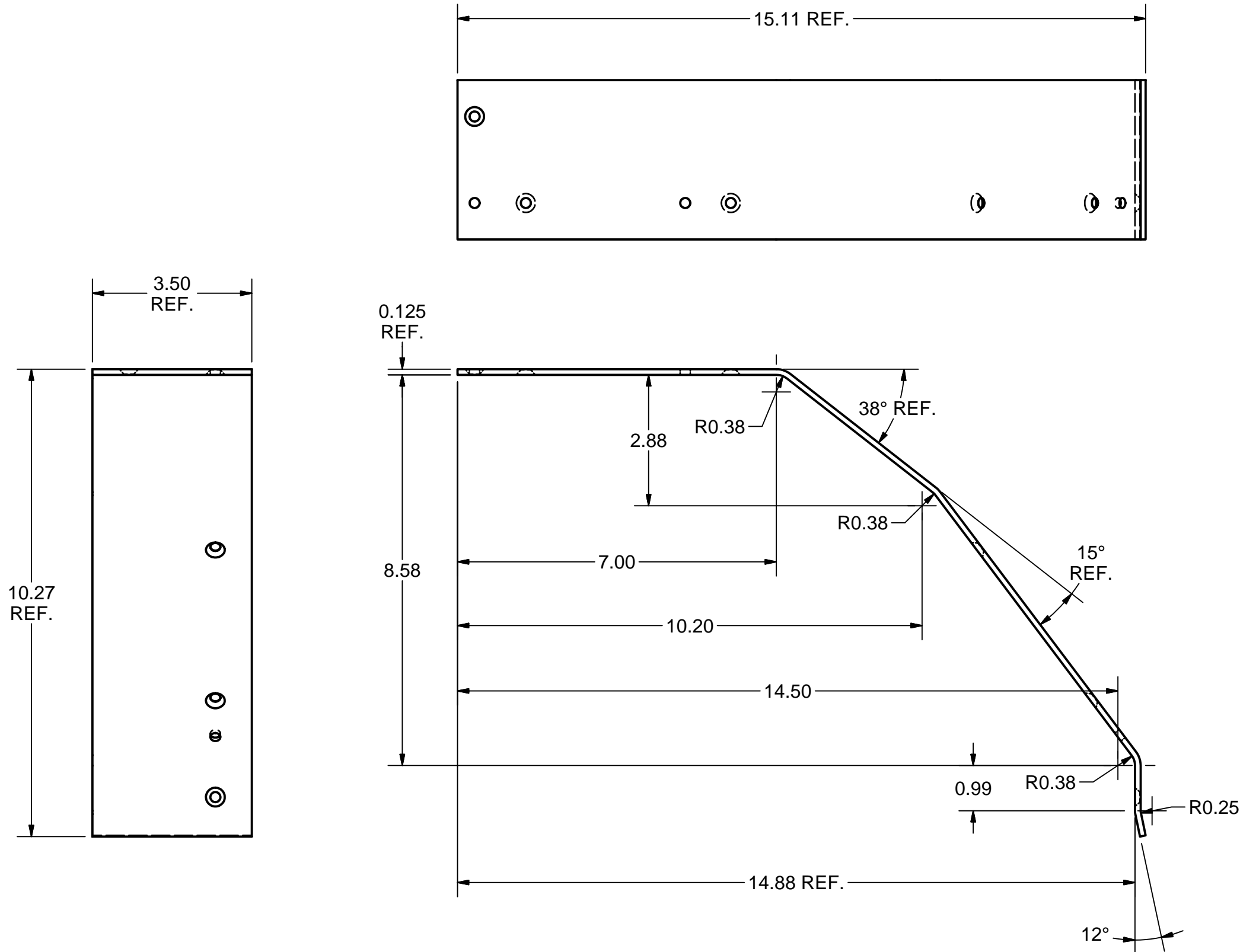
		ITEM		DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS		REV.
D		PRINT DISTR.	PLOT DATE: 8/23/2007										D	REV.
			CAD FILE NAME: 7102-066.idw											
7102-066		CR-1	UNLESS OTHERWISE SPECIFIED:		 CORNELL UNIVERSITY LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853					D	REV.
DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		ERL INJECTOR CRYOMODULE 80 K SHIELD SIDE COVER STRIPS 3 AND 4												
SH. NO. 60 OF 72		CHECKED BY: VM	DRAWN BY		DRAWN FOR		DATE		SCALE		D	7102-066		REV.
OF 72		APPROVED BY: VM		vm		M.Liepe		8/6/2007		SH. NO. 60 OF 72				



REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES:</p> <p>TOLERANCES ON:</p> <p>.0 ± .02</p> <p>.00 ± .010</p> <p>.000 ± .005</p> <p>FRACTIONS ± 1/32</p> <p>ANGLES ± 0.5°</p> <p>ALL SURFACES </p>		<div><div><div>CORNELL UNIVERSITY</div><div></div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>								
7102-066 SH. NO. 61 OF 72		ERL INJECTOR CRYOMODULE 80 K SHIELD TOP STRIPS 1 THRU 8										
	REV.	CHECKED BY: VM APPROVED BY: VM		DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE		7102-066 SH. NO. 61 OF 72		REV.	

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.






FLAT PATTERN

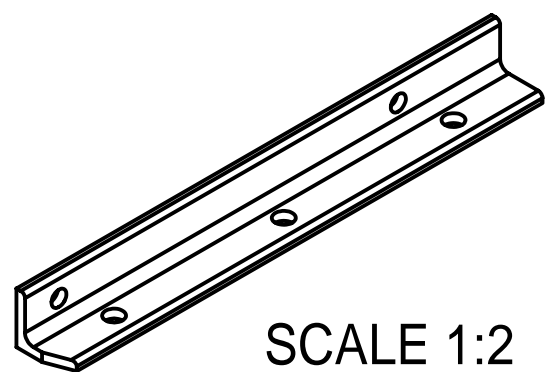
FLAT PATTERN

71 TOP COVER STRIP I
FILE NAME: 7102-066
SHEET NO.: 62
DFT. SCALE: 1:2.5
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSEMBLY
NOTES:

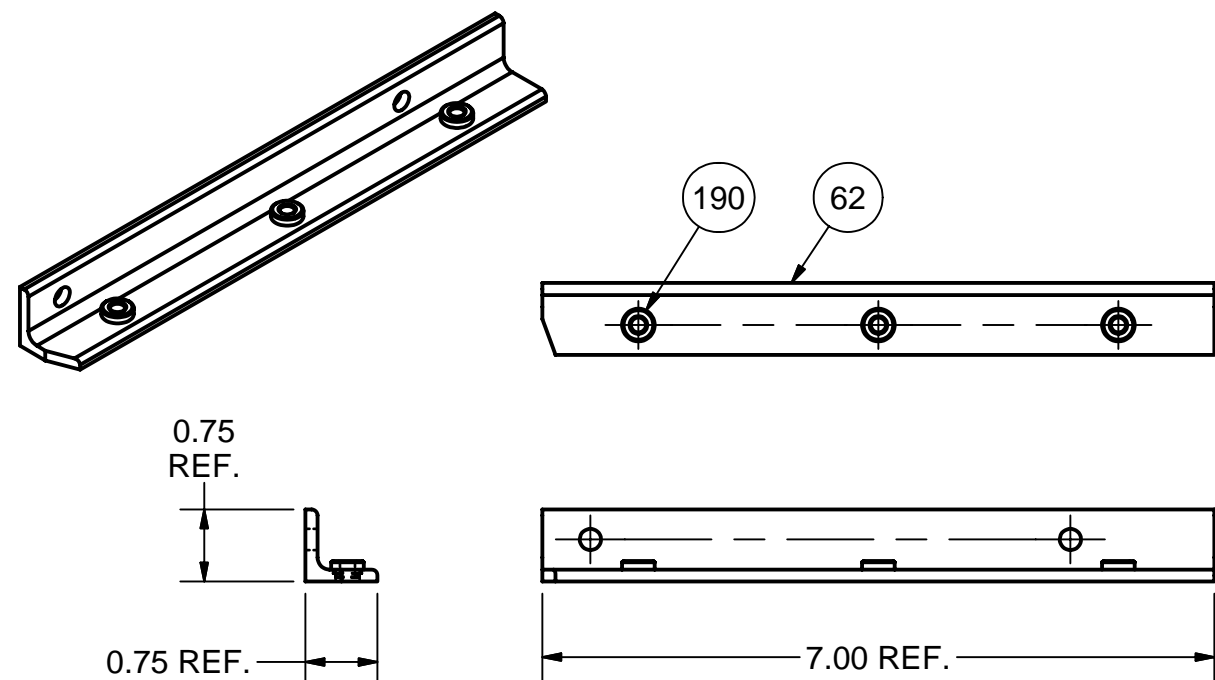
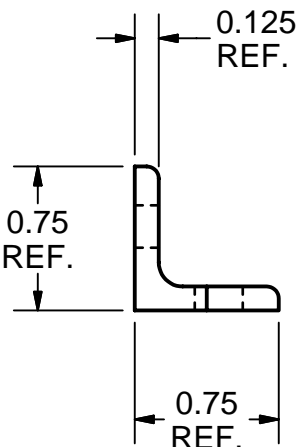
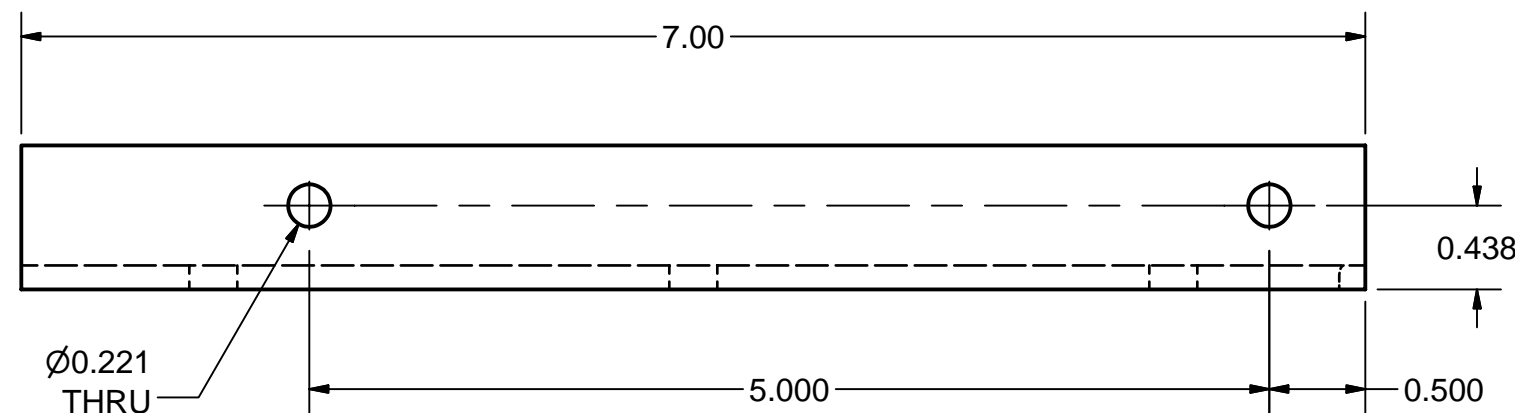
123 TOP COVER STRIP II
FILE NAME: 7102-066
SHEET NO.: 62
DFT. SCALE: 1:2.5
MATERIAL: 1/8" 1100-H14 ALUMINUM SHEET
QTY: 1 PER ASSMBLY
NOTES:

		ITEM		DWG. NO.		DESCRIPTION		G1	G2	G3	REMARKS		REV.
								QUANTITY					
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw											
7102-066 SH. NO. 62 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED:		<div><div>CORNELL UNIVERSITY</div><div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>									
		DIMENSIONS ARE IN INCHES; TOLERANCES ON:											
		.0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		ERL INJECTOR CRYOMODULE 80 K SHIELD TOP COVER STRIPS I AND II									
		CHECKED BY: VM		DRAWN BY	DRAWN FOR	DATE	SCALE	D	7102-066	REV.			
APPROVED BY: VM		vm	M.Liepe	8/6/2007		SH. NO. 62 OF 72							

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		Material nomenclature edits, 6063 or 6061 aluminum is acceptable, items 48, 62, 64.	8/23/07	TIO



SCALE 1:2



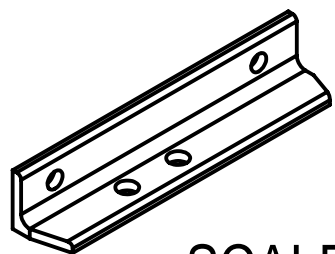
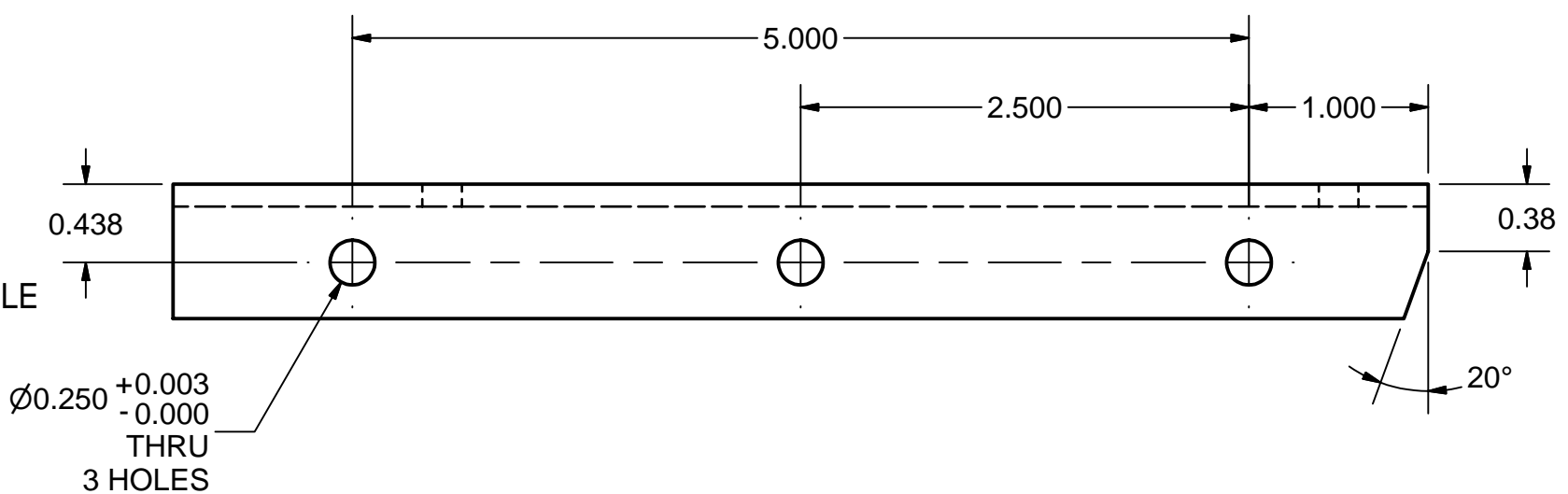
61 ANGLE 1 SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 64
DFT. SCALE: 1:2
MATERIAL:
QTY: 2 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

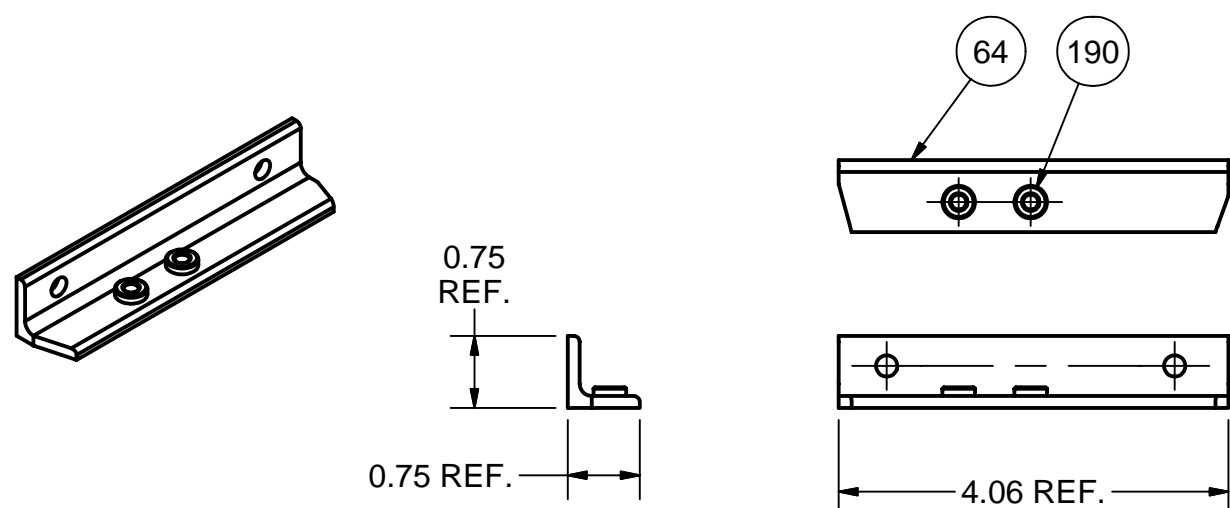
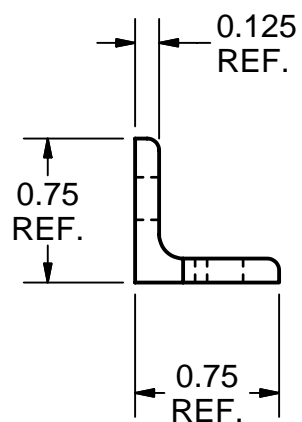
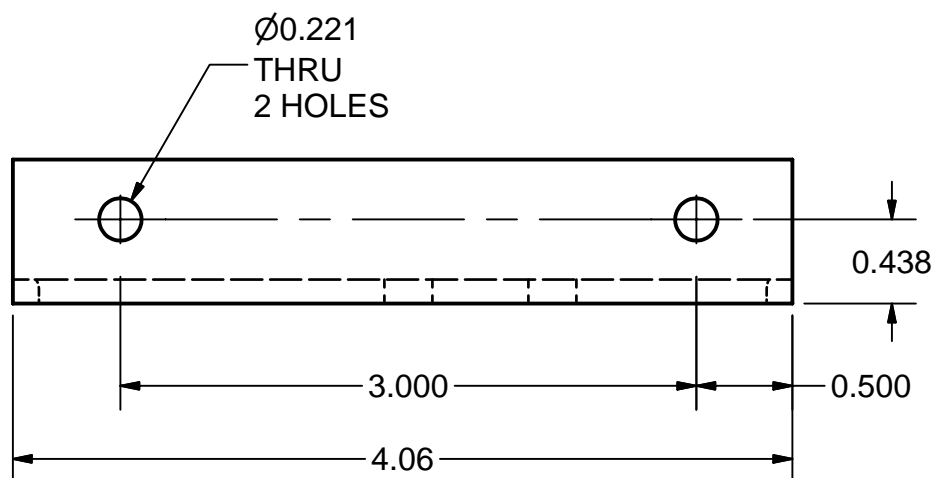
190	Purchased	10-32 PEM NUT, CLSS-032-3	3			St.Steel	
62	7102-066 (Sh.64)	ANGLE 1	1				
61	7102-066 (Sh.64)	ANGLE 1 SUB-ASM	X				

62 ANGLE 1

FILE NAME: 7102-066
SHEET NO.: 64
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 2 PER ASSEMBLY
NOTES:



SCALE 1:2



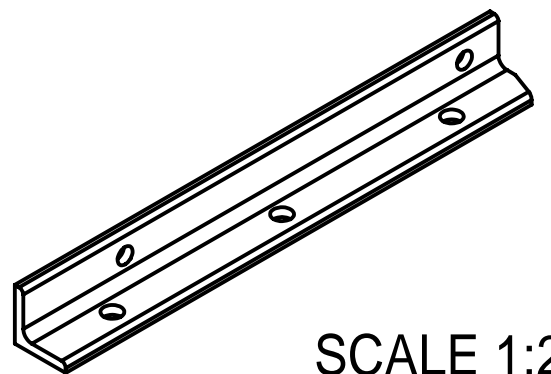
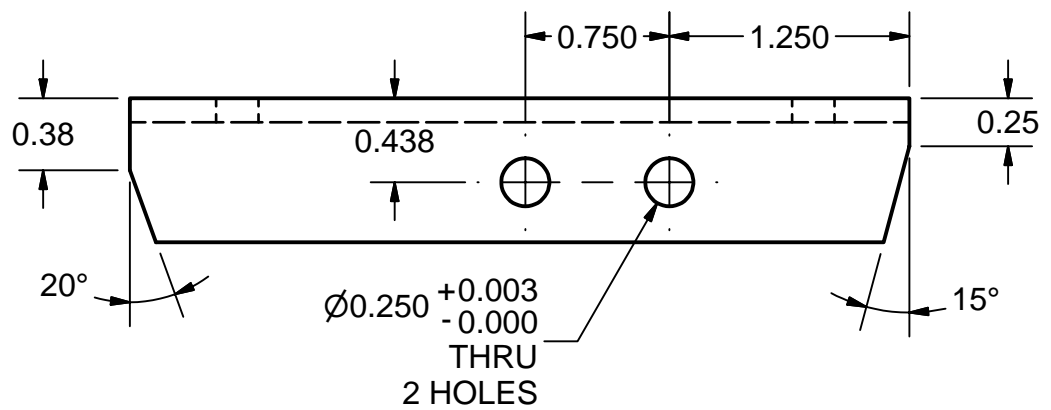
63 ANGLE 2 SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 64
DFT. SCALE: 1:2
MATERIAL:
QTY: 2 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

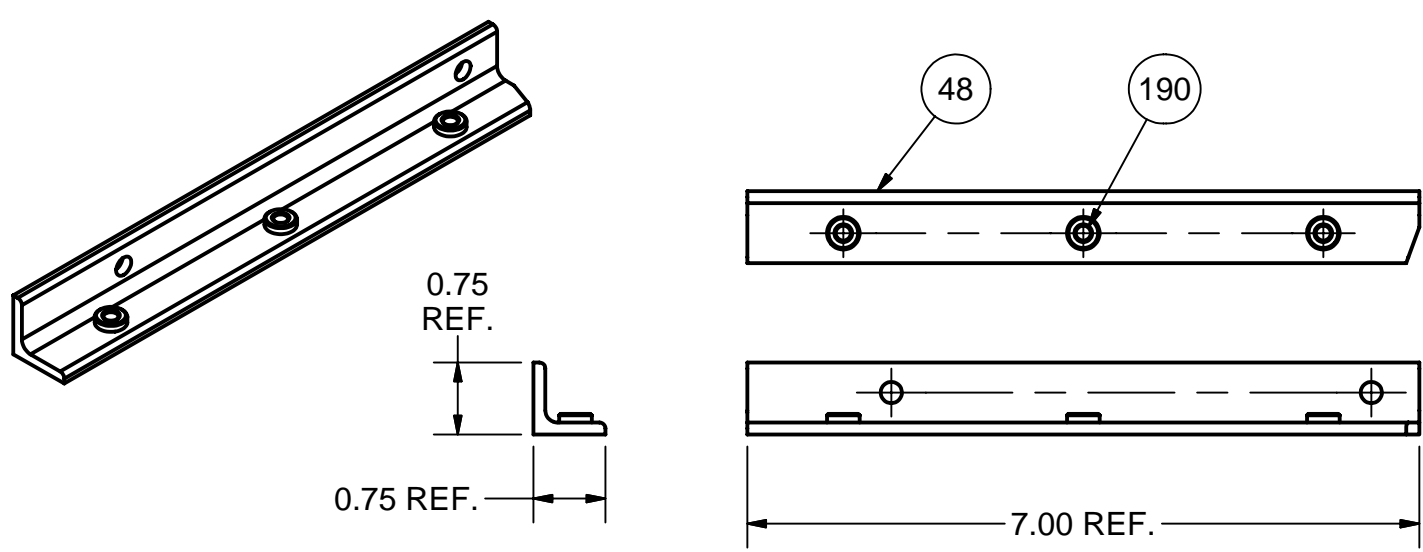
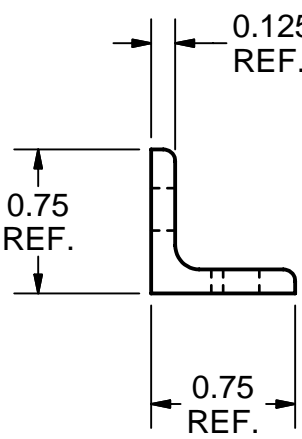
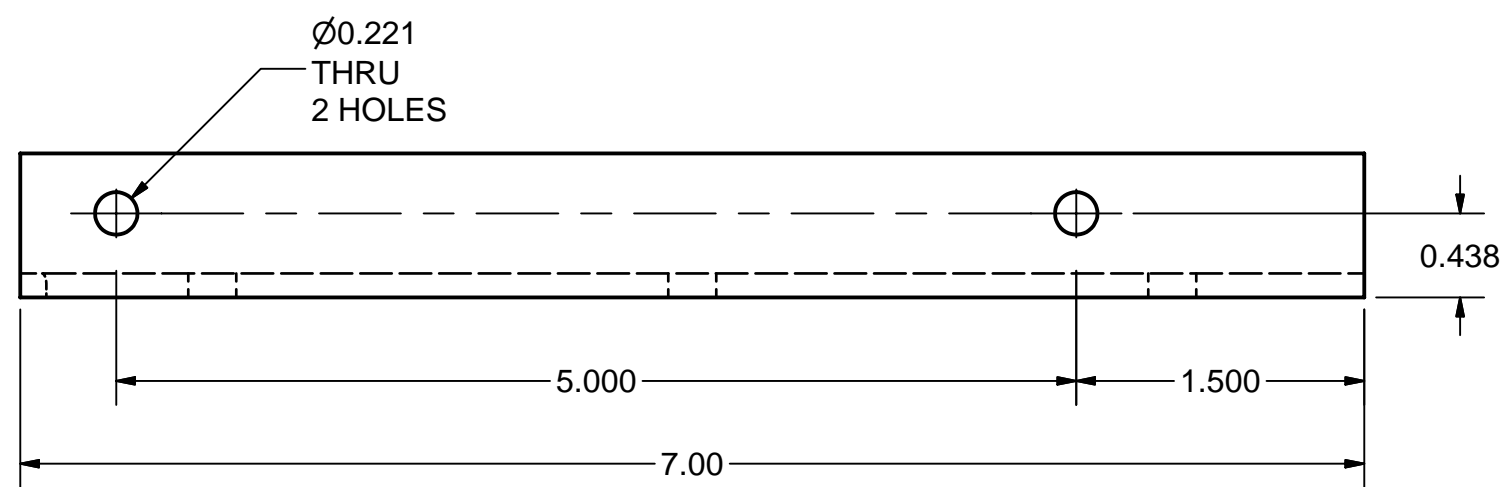
190	Purchased	10-32 PEM NUT, CLSS-032-3	2			St.Steel	
64	7102-066 (Sh.64)	ANGLE 2	1				
63	7102-066 (Sh.64)	ANGLE 2 SUB-ASM	X				

64 ANGLE 2

FILE NAME: 7102-066
SHEET NO.: 64
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 2 PER ASSEMBLY
NOTES:



SCALE 1:2



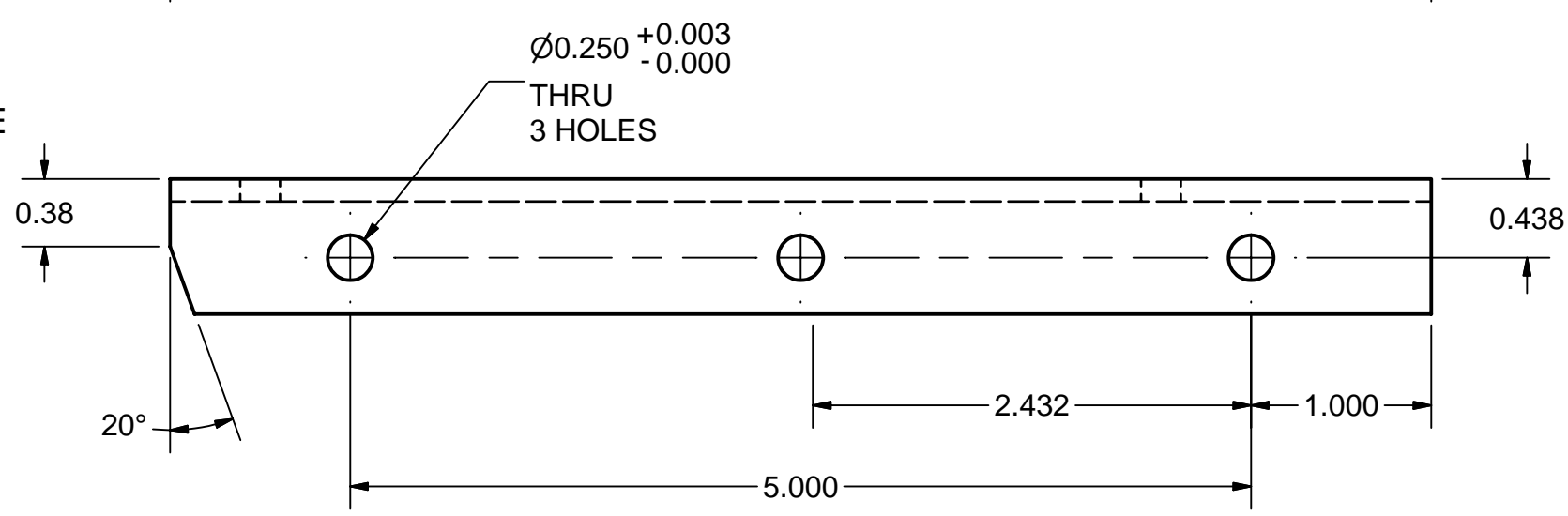
47 ANGLE 3 SUB-ASM


FILE NAME: 7102-066
SHEET NO.: 64
DFT. SCALE: 1:2
MATERIAL:
QTY: 2 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

190	Purchased	10-32 PEM NUT, CLSS-032-3	3			St.Steel	
48	7102-066 (Sh.64)	ANGLE 3	1				
47	7102-066 (Sh.64)	ANGLE 3 SUB-ASM	X				

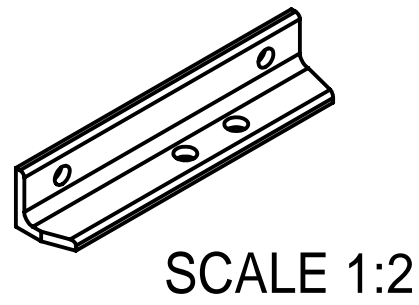
48 ANGLE 3

FILE NAME: 7102-066
SHEET NO.: 64
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 2 PER ASSEMBLY
NOTES:

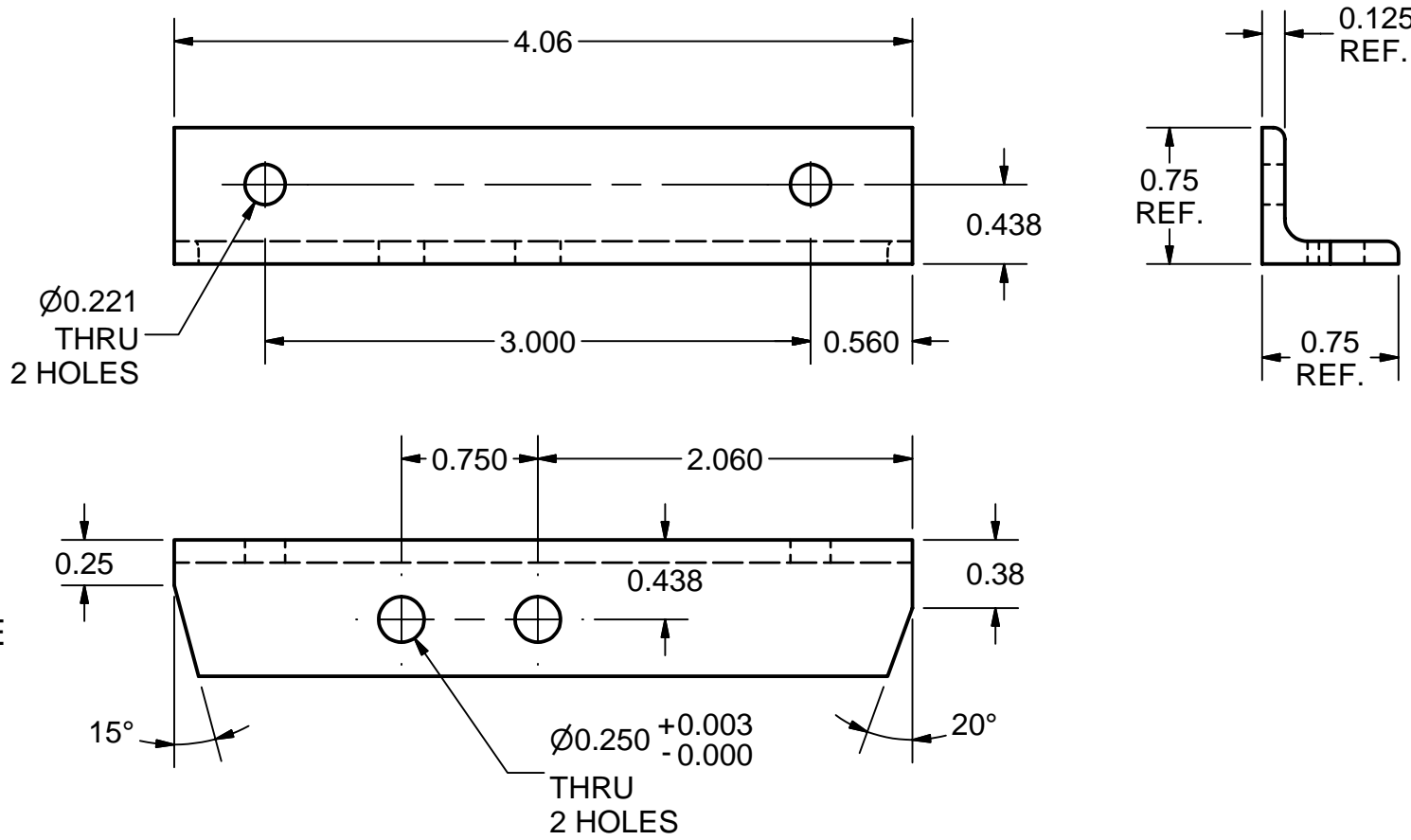


		ITEM			DWG. NO.			DESCRIPTION			G1	G2	G3	REMARKS		REV.	
D		PRINT DISTR.	PLOT DATE: 8/23/2007														
			CAD FILE NAME: 7102-066.idw														
7102-066 SH. NO. 64 OF 72		CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES	<div>CORNELL UNIVERSITY  LEPP</div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div>										D			
				ERL INJECTOR CRYOMODULE 80 K SHIELD ANGLES 1, 2, 3													
A		REV.	CHECKED BY: VM		DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE		D		7102-066 SH. NO. 64 OF 72		REV. A
			APPROVED BY: VM														

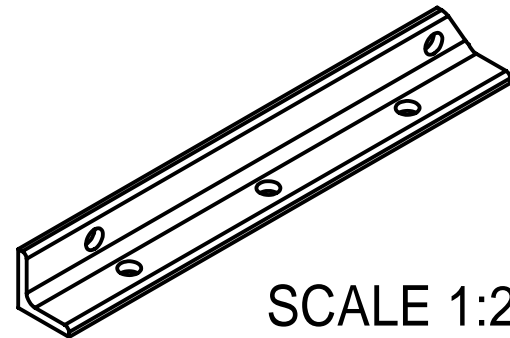
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		Material nomenclature edits, 6063 or 6061 aluminum is acceptable, items 50, 88, 90.	8/23/07	TIO



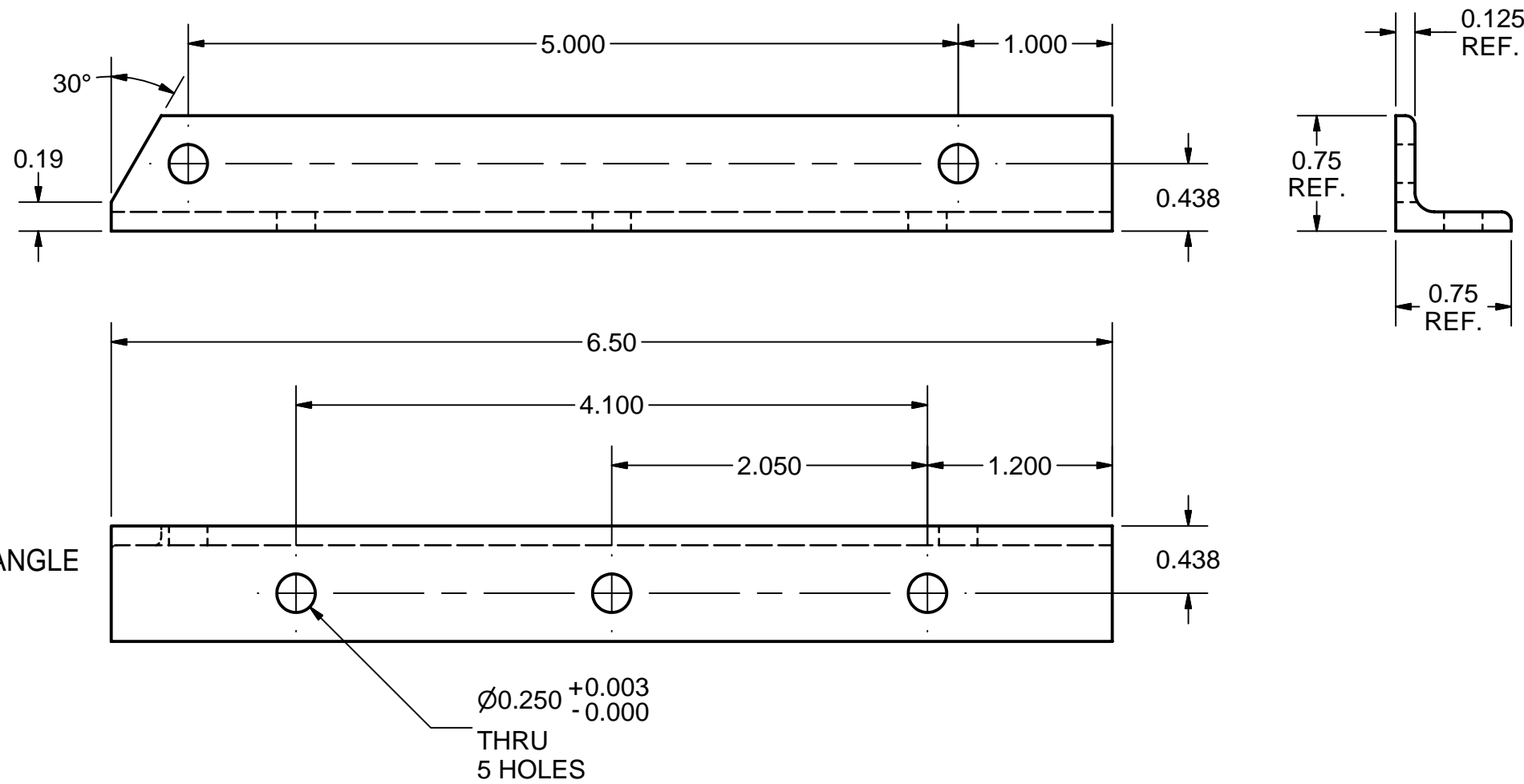
SCALE 1:2



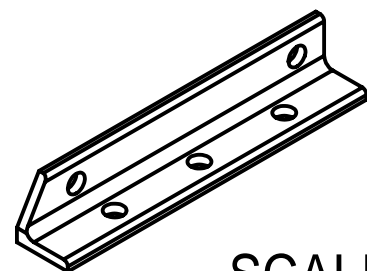
50 ANGLE 4
FILE NAME: 7102-066
SHEET NO.: 65
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 2 PER ASSEMBLY
NOTES:



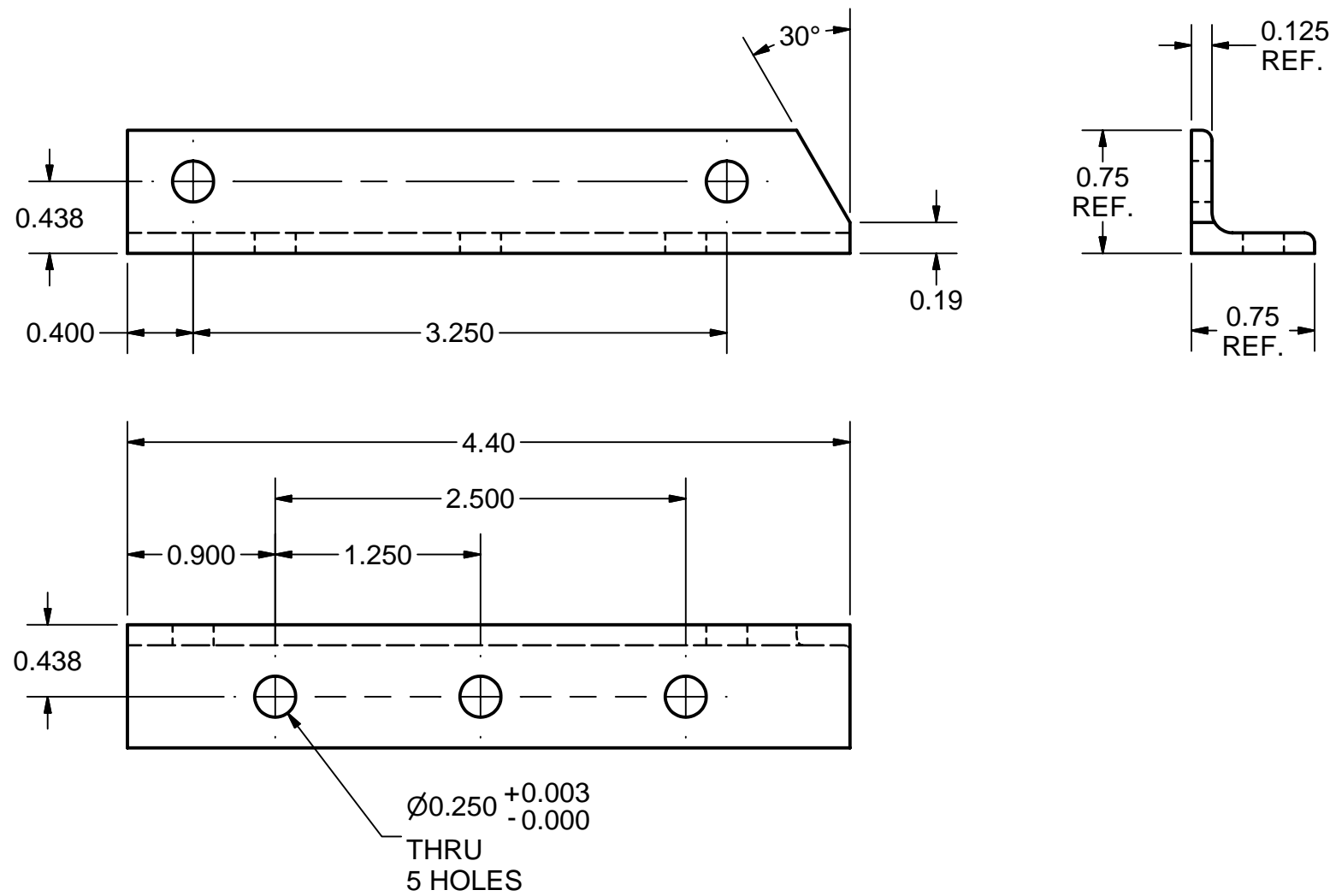
SCALE 1:2



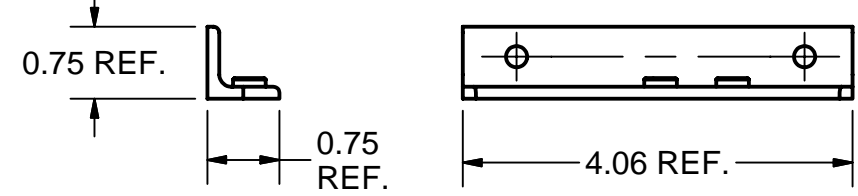
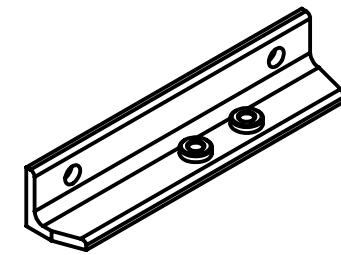
88 ANGLE 5
FILE NAME: 7102-066
SHEET NO.: 65
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 1 PER ASSEMBLY
NOTES:



SCALE 1:2

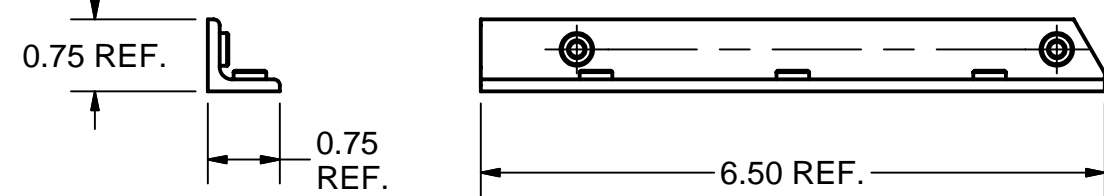
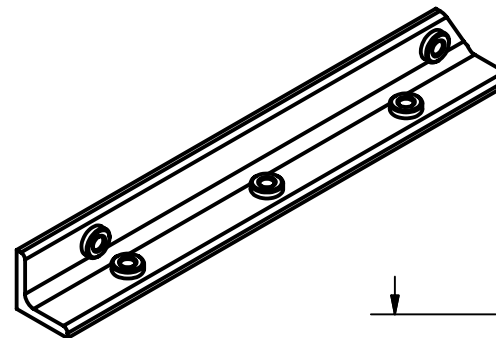


90 ANGLE 6
FILE NAME: 7102-066
SHEET NO.: 65
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 2 PER ASSEMBLY
NOTES:



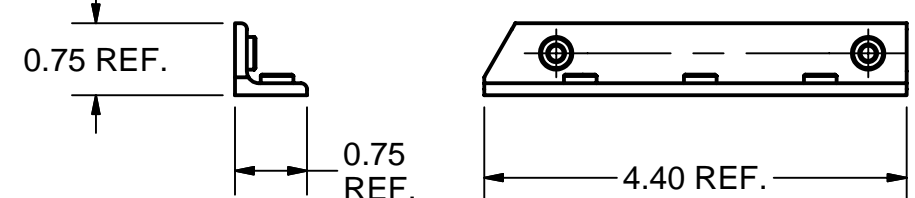
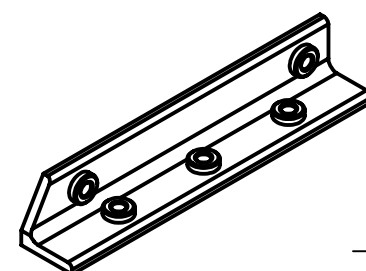
49 ANGLE 4 SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 65
DFT. SCALE: 1:2
MATERIAL:
QTY: 2 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

190	Purchased	10-32 PEM NUT, CLSS-032-3	2		St.Steel		
50	7102-066 (Sh.65)	ANGLE 4	1				
49	7102-066 (Sh.65)	ANGLE 4 SUB-ASM	X				






87 ANGLE 5 SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 65
DFT. SCALE: 1:2
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

190	Purchased	10-32 PEM NUT, CLSS-032-3	5		St.Steel		
88	7102-066 (Sh.65)	ANGLE 5	1				
87	7102-066 (Sh.65)	ANGLE 5 SUB-ASM	X				

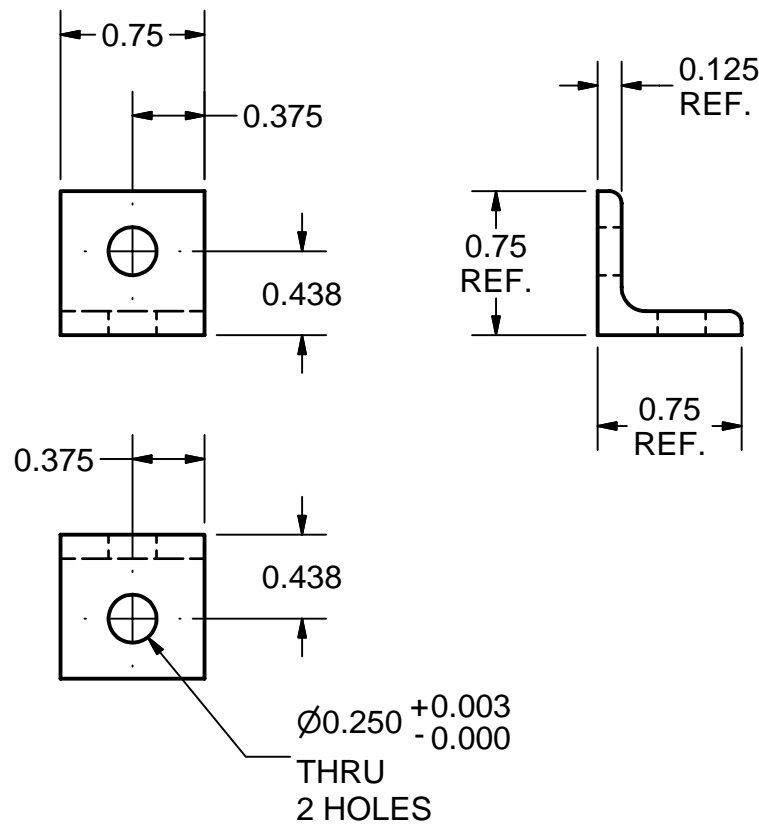
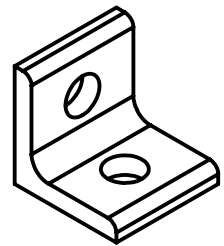


89 ANGLE 6 SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 65
DFT. SCALE: 1:2
MATERIAL:
QTY: 2 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

190	Purchased	10-32 PEM NUT, CLSS-032-3	5		St.Steel		
90	7102-066 (Sh.65)	ANGLE 6	1				
89	7102-066 (Sh.65)	ANGLE 6 SUB-ASM	X				

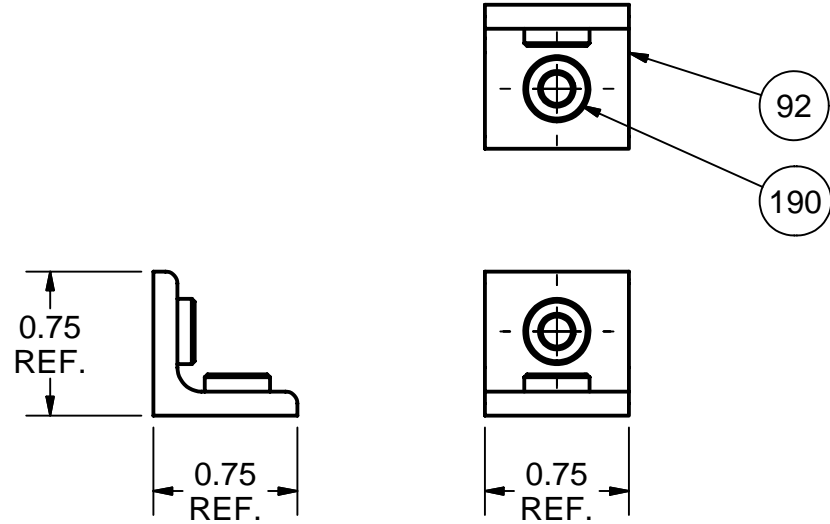
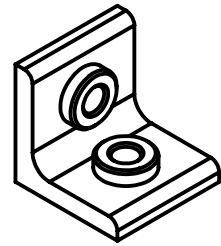
		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
						QUANTITY					
<div>D</div> <div>SH. NO. 65 OF 72</div>	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw									
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: 0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div> LEPP</div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div>							
		ERL INJECTOR CRYOMODULE 80 K SHIELD ANGLES 4, 5, 6									
		REV. A	CHECKED BY: VM APPROVED BY: VM	DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE	<div>D</div>	7102-066 SH. NO. 65 OF 72		REV. A

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		Material nomenclature edits, 6063 or 6061 aluminum is acceptable, items 92, 96, 98.	8/23/07	TIO



03 ANGLE 7

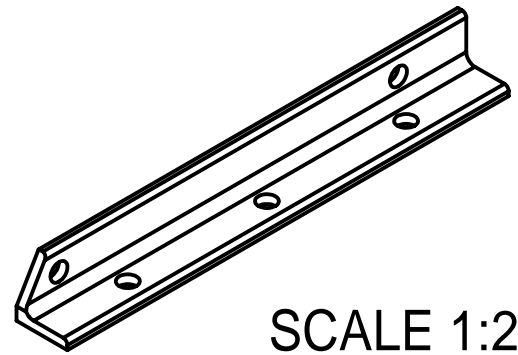
FILE NAME: 7102-066
SHEET NO.: 66
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 6 PER ASSEMBLY
NOTES:



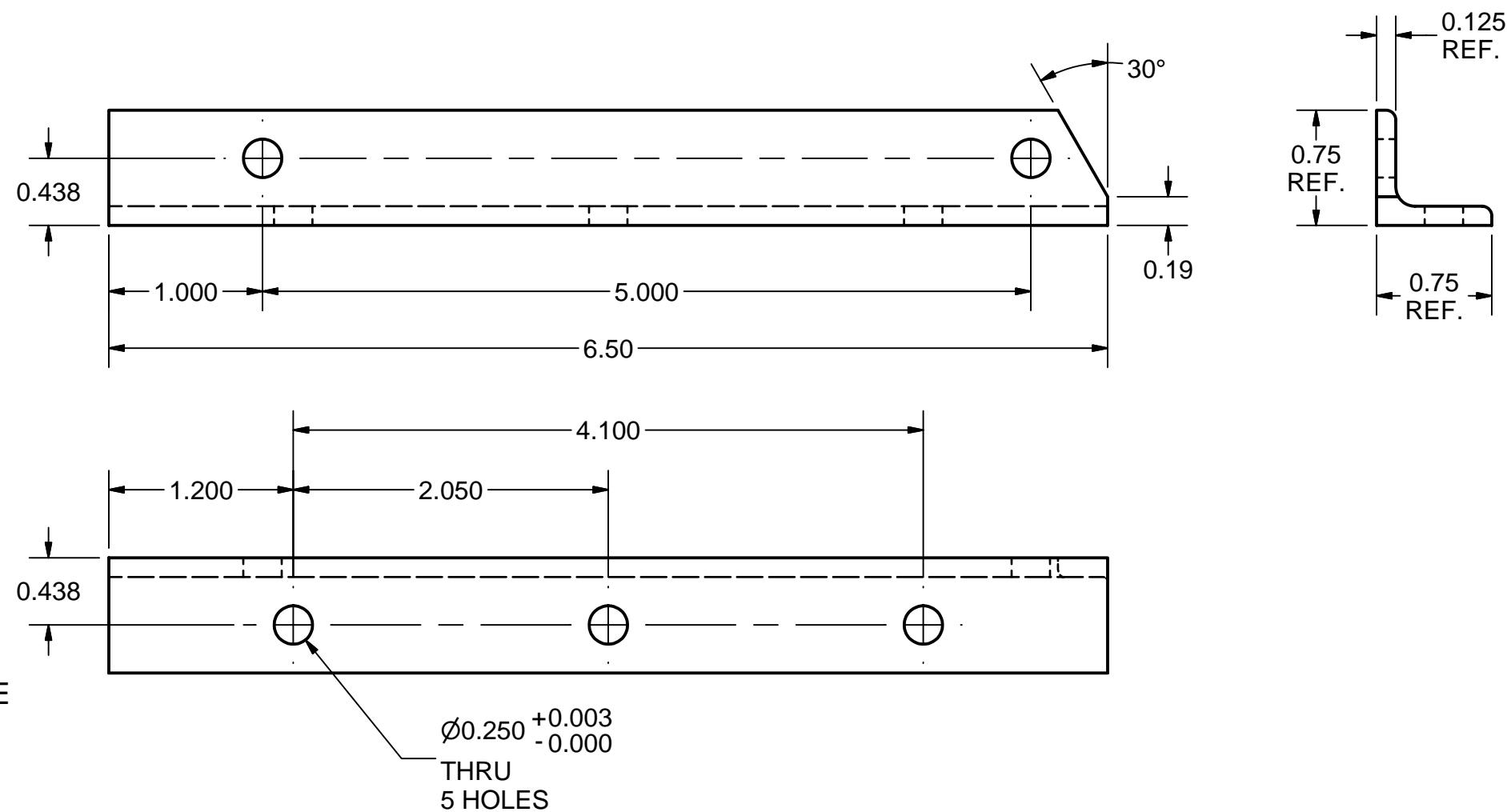
01 ANGLE 7 SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 66
DFT. SCALE: 1:1
MATERIAL:
QTY: 6 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

190	Purchased	10-32 PEM NUT, CLSS-032-3	2			St.Steel	
92	7102-066 (Sh.66)	ANGLE 7	1				
91	7102-066 (Sh.66)	ANGLE 7 SUB-ASM	X				

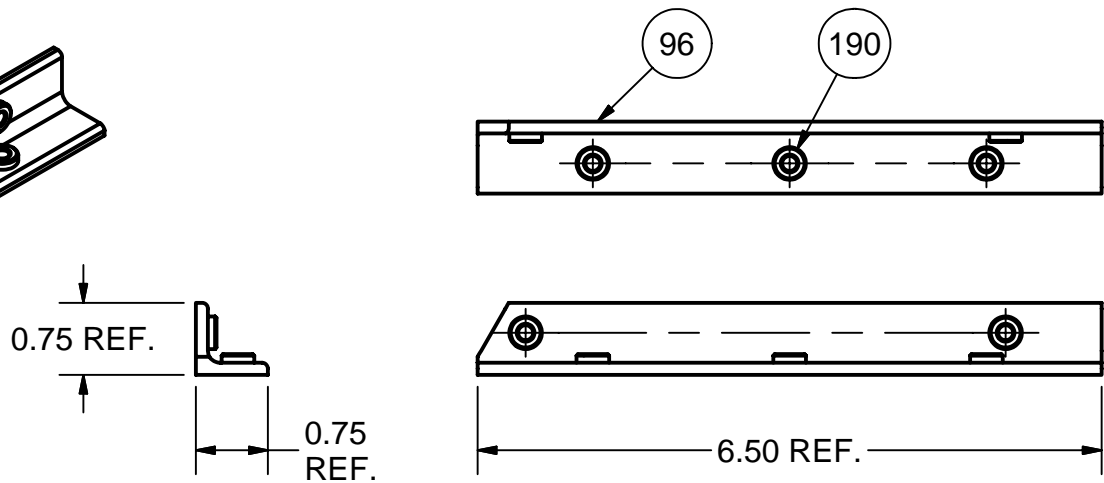
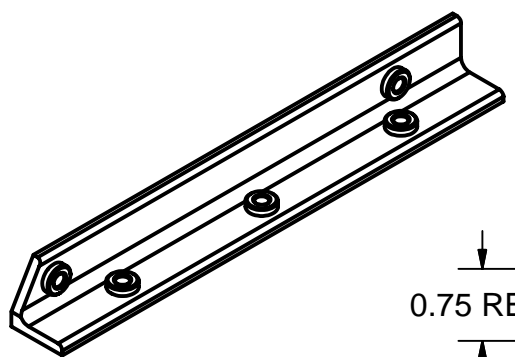


SCALE 1:2



06 ANGLE 8

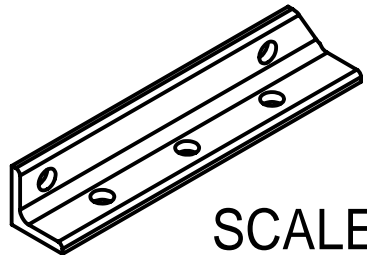
FILE NAME: 7102-066
SHEET NO.: 66
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 1 PER ASSEMBLY
NOTES:



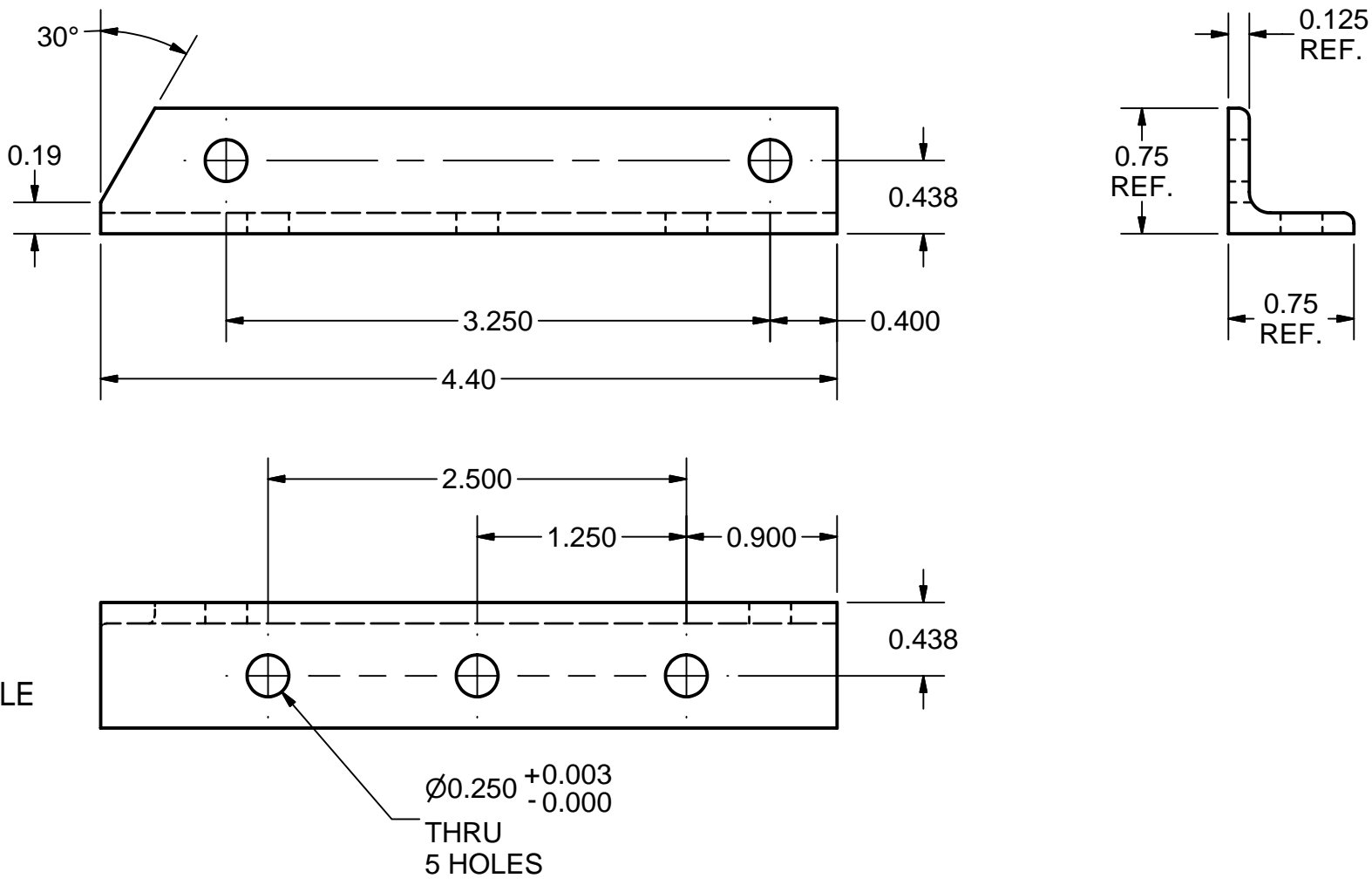
05 ANGLE 8 SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 66
DFT. SCALE: 1:2
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

190	Purchased	10-32 PEM NUT, CLSS-032-3	5			St.Steel	
96	7102-066 (Sh.66)	ANGLE 8	1				
95	7102-066 (Sh.66)	ANGLE 8 SUB-ASM	X				

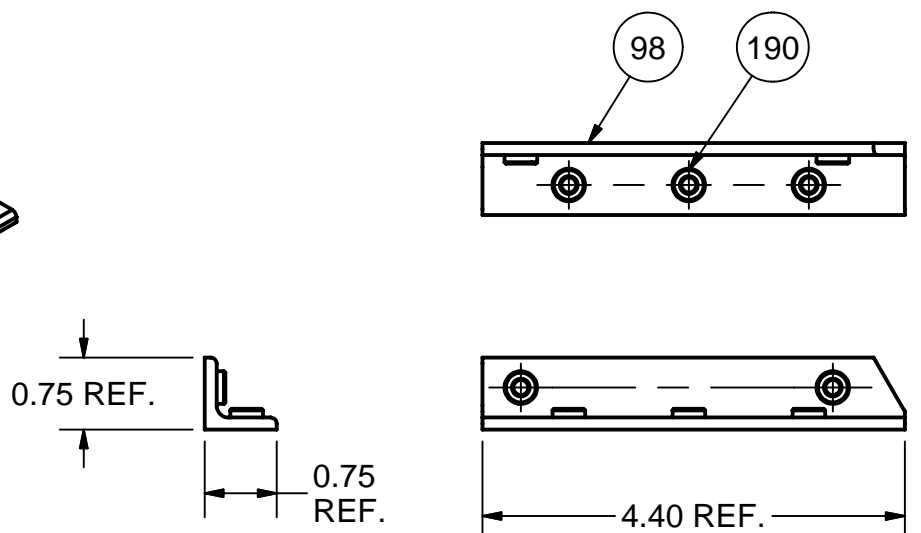
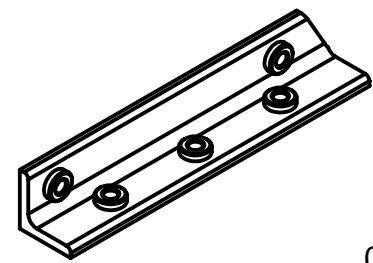


SCALE 1:2



ANGLE 9





FILE NAME: 7102-066
SHEET NO.: 66
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 2 PER ASSEMBLY
NOTES:



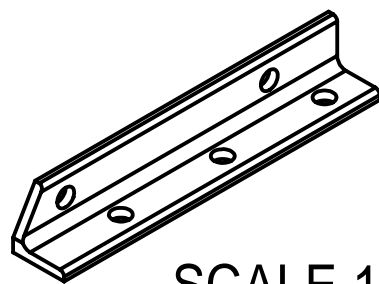
27 ANGLE 9 SUB-ASM

FILE NAME: 7102-066
SHEET NO.: 66
DFT. SCALE: 1:2
MATERIAL:
QTY: 2 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

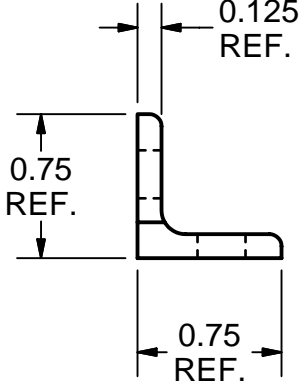
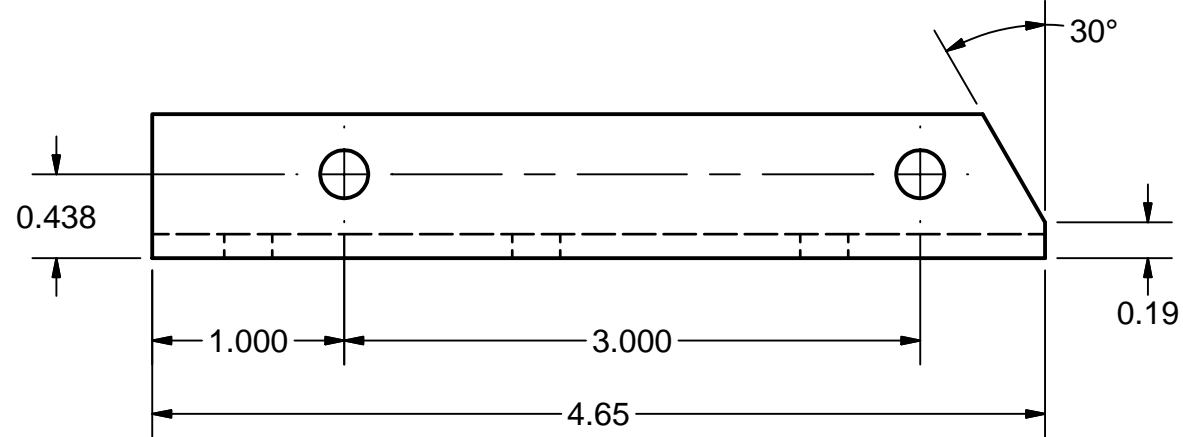
190	Purchased	10-32 PEM NUT, CLSS-032-3	5			St.Steel	
98	7102-066 (Sh.66)	ANGLE 9	1				
97	7102-066 (Sh.66)	ANGLE 9 SUB-ASM	X				

 		ITEM	DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS	REV.
			QUANTITY									
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	<div>UNLESS OTHERWISE SPECIFIED:</div> <div>DIMENSIONS ARE IN INCHES:</div> <div>TOLERANCES ON:</div> <div>.0 ± .02</div> <div>.00 ± .010</div> <div>.000 ± .005</div> <div>FRACTIONS ± 1/32</div> <div>ANGLES ± 0.5°</div> <div>ALL SURFACES </div>		<div><div><div>CORNELL UNIVERSITY</div><div>LEPP</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div><div><div>CORNELL UNIVERSITY</div><div>Floyd R. Newman Laboratory</div><div>Ithaca, NY 14853</div></div></div>								
SH NO. 66 OF 72	7102-066	<div>ERL INJECTOR CRYOMODULE</div> <div>80 K SHIELD</div> <div>ANGLES 7, 8, 9</div>										
A	REV.	CHECKED BY: VM	DRAWN BY	DRAWN FOR	DATE	SCALE	D	7102-066	REV. A			
	APPROVED BY: VM	vm	M.Liepe	8/6/2007								
									SH NO. 66	OF 72		

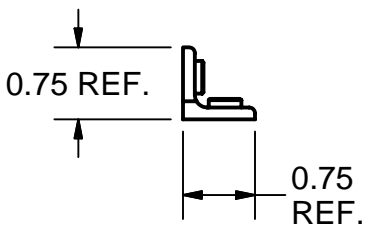
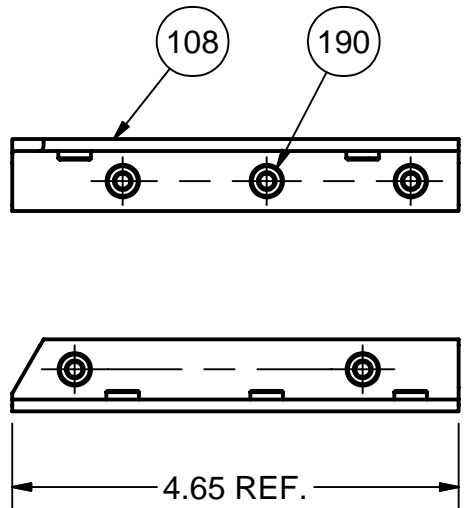
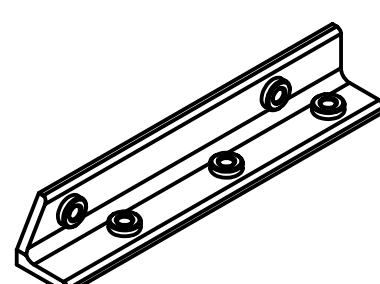
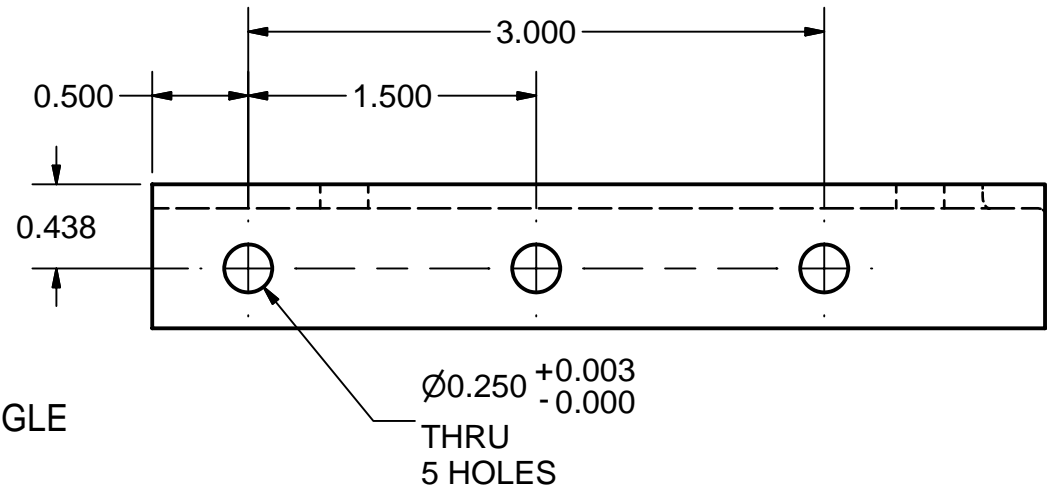
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		Material nomenclature edits, 6063 or 6061 aluminum is acceptable, items 108 & 112.	8/23/07	TIO



SCALE 1:2

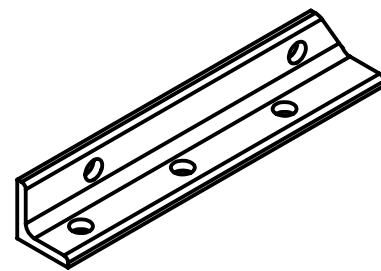


108 **ANGLE 10**
FILE NAME: 7102-066
SHEET NO.: 67
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 1 PER ASSEMBLY
NOTES:

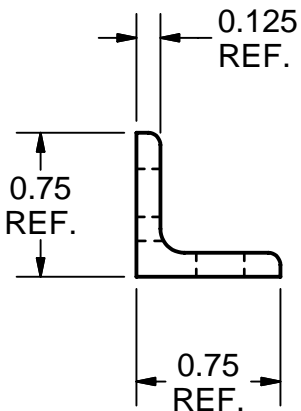
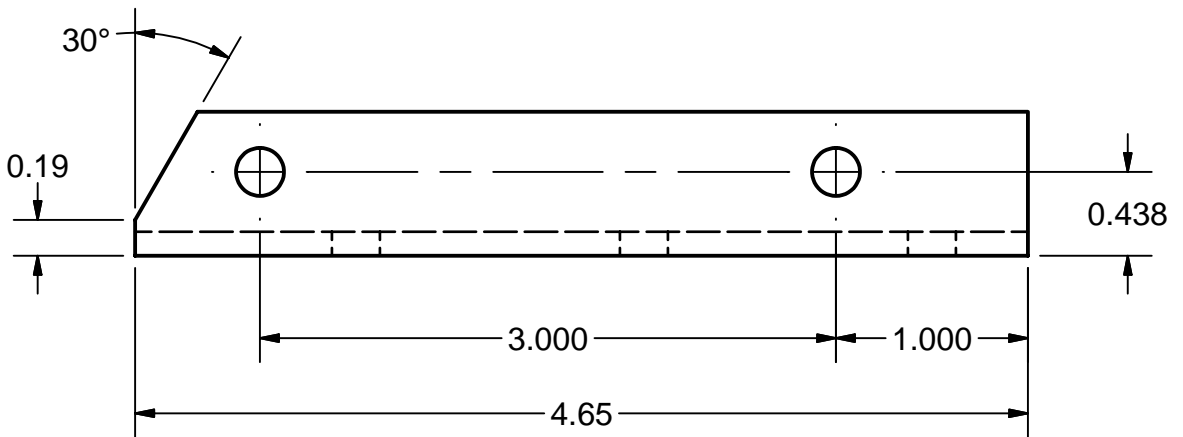


190	Purchased	10-32 PEM NUT, CLSS-032-3	5			St.Steel	
108	7102-066 (Sh.67)	ANGLE 10	1				
107	7102-066 (Sh.67)	ANGLE 10 SUB-ASM	X				

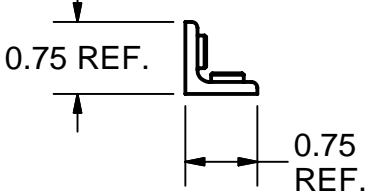
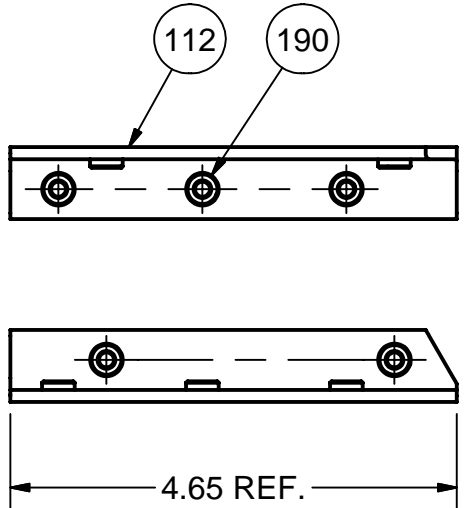
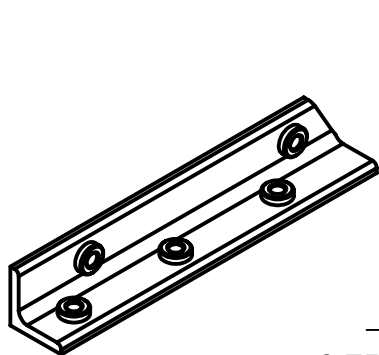
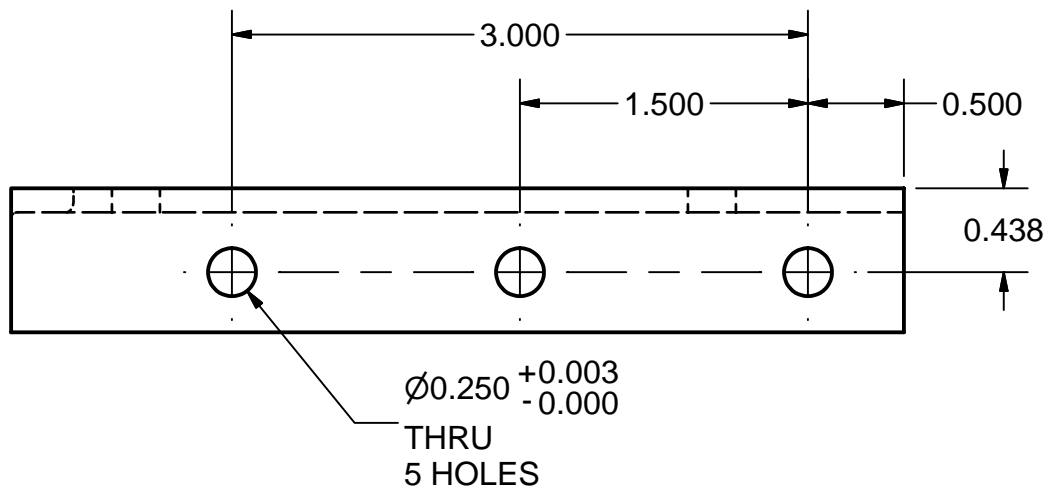
107 **ANGLE 10 SUB-ASM**
FILE NAME: 7102-066
SHEET NO.: 67
DFT. SCALE: 1:2
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.



SCALE 1:2

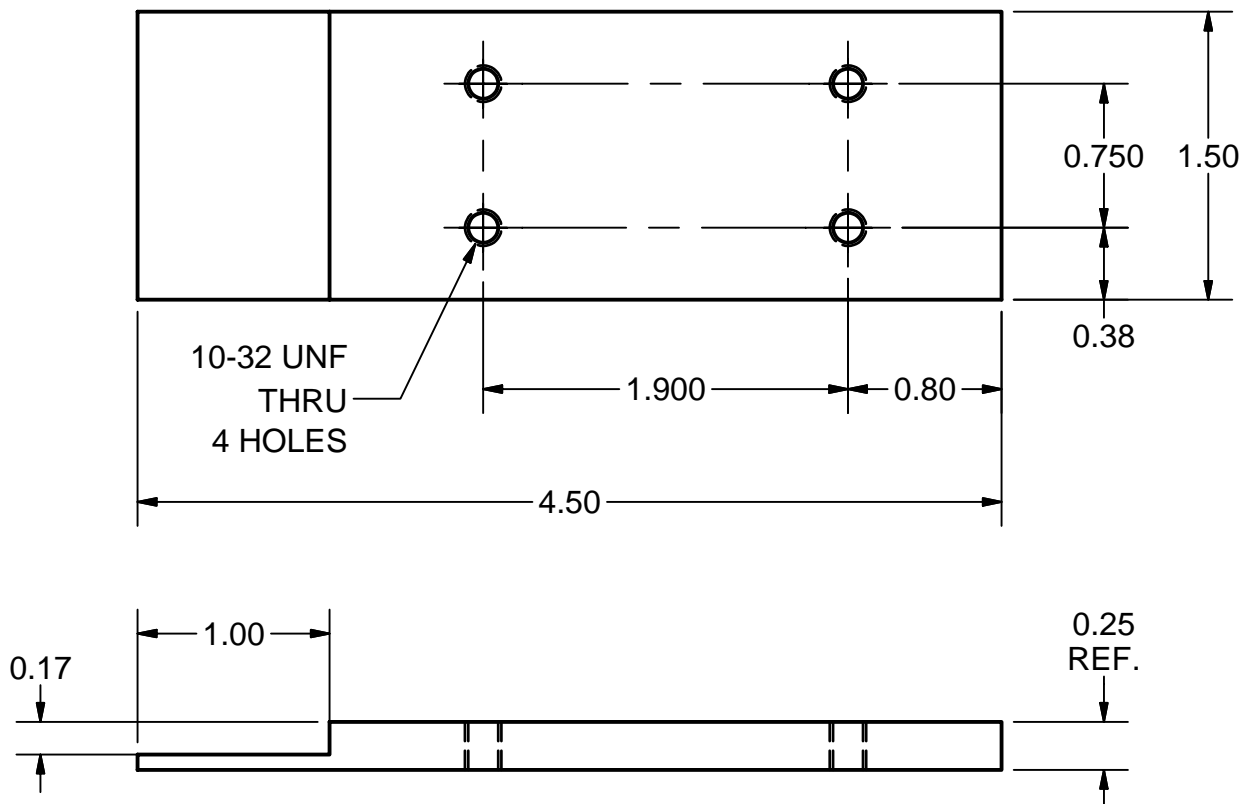
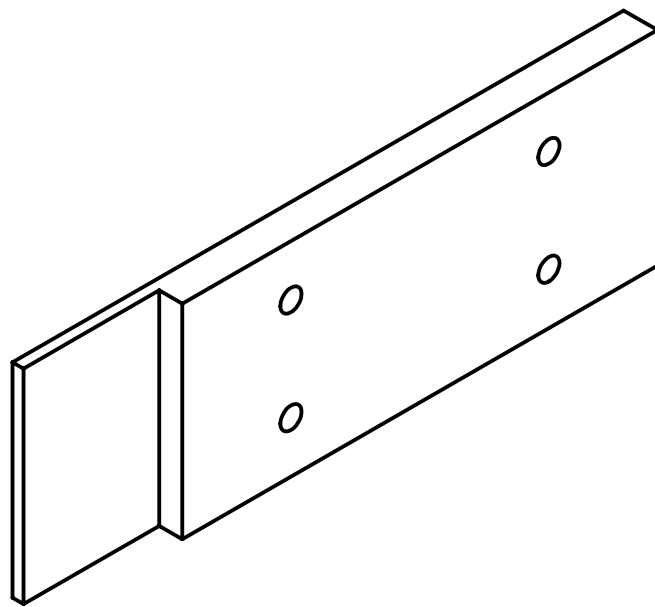


112 **ANGLE 11**
FILE NAME: 7102-066
SHEET NO.: 67
DFT. SCALE: 1:1
MATERIAL: 3/4" x 3/4" x 1/8"W 6063 OR 6061 ALUM. ANGLE
QTY: 1 PER ASSEMBLY
NOTES:

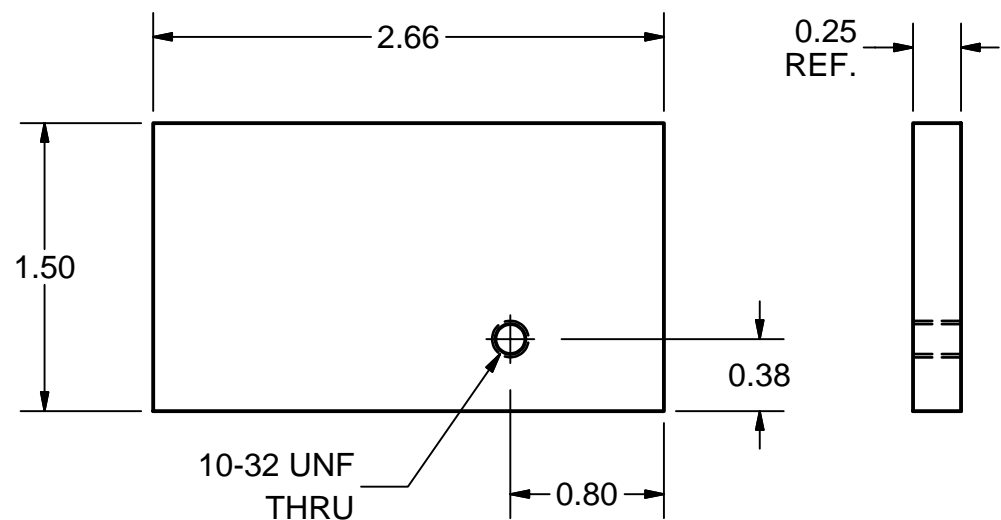
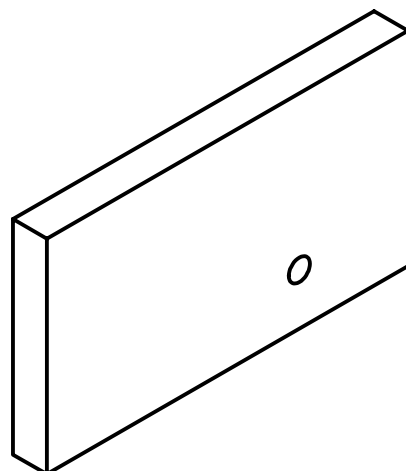


190	Purchased	10-32 PEM NUT, CLSS-032-3	5			St.Steel	
112	7102-066 (Sh.67)	ANGLE 11	1				
111	7102-066 (Sh.67)	ANGLE 11 SUB-ASM	X				



111 **ANGLE 11 SUB-ASM**
FILE NAME: 7102-066
SHEET NO.: 67
DFT. SCALE: 1:2
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES: 1. USE PRESS (PEMSERTER OR EQUIV.)
TO INSTALL PEM NUTS ITEM 190.

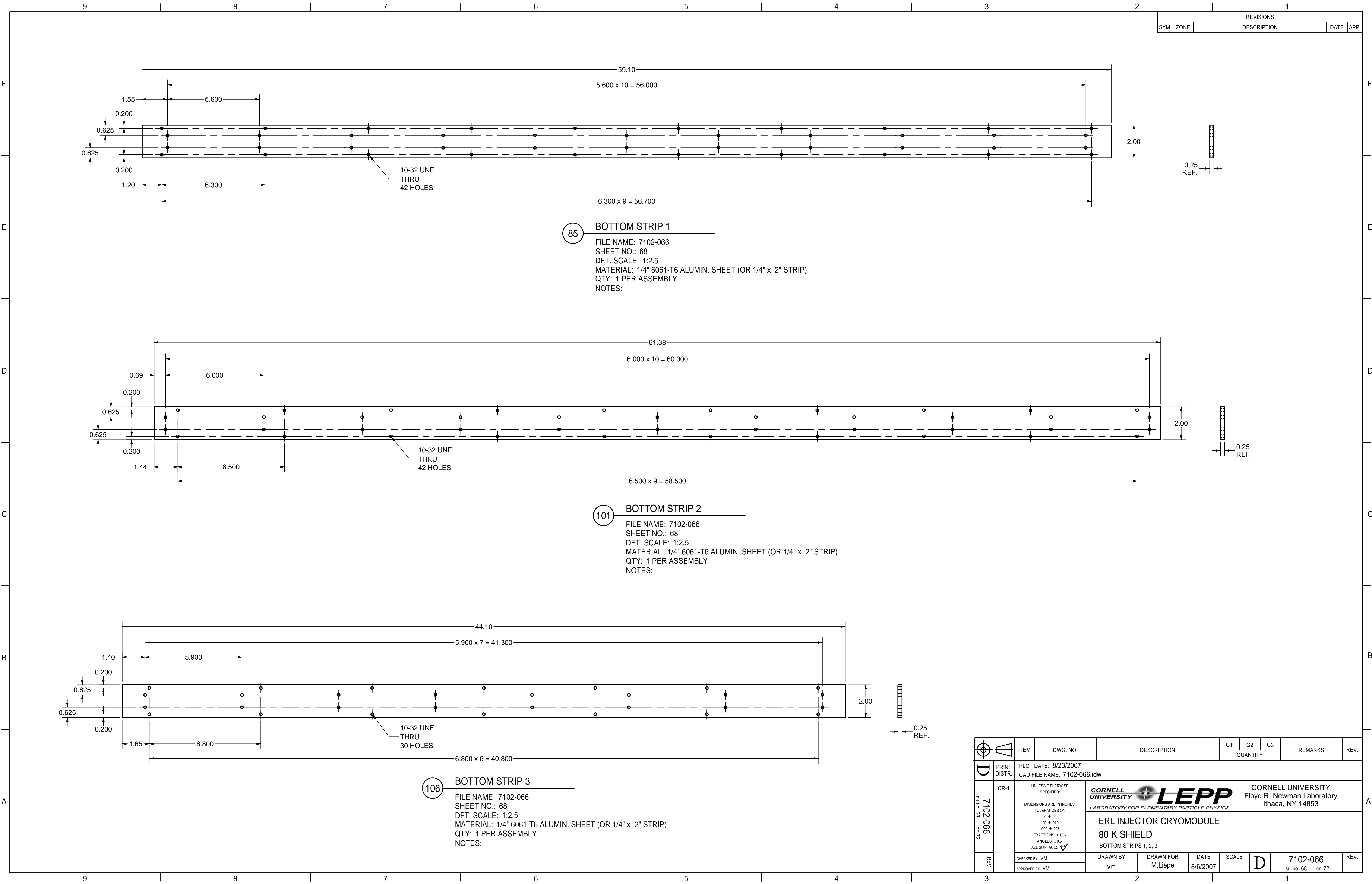


73 **TOP COVER STRIP PATCH 1**
FILE NAME: 7102-066
SHEET NO.: 67
DFT. SCALE: 1:1
MATERIAL: 1/4" 6061-T6 ALUMIN. SHEET (OR 1/4" x 1-1/2" STRIP)
QTY: 3 PER ASSEMBLY
NOTES:



79 **TOP COVER STRIP PATCH 2**
FILE NAME: 7102-066
SHEET NO.: 67
DFT. SCALE: 1:1
MATERIAL: 1/4" 6061-T6 ALUMIN. SHEET (OR 1/4" x 1-1/2" STRIP)
QTY: 1 PER ASSEMBLY
NOTES:

		ITEM	DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS		REV.	
								QUANTITY						
D	PRINT	PLOT DATE: 8/23/2007												
	DISTR.	CAD FILE NAME: 7102-066.idw												
7102-066 SH. NO. 67 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED:		 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853										
		DIMENSIONS ARE IN INCHES:												
		TOLERANCES ON:		ERL INJECTOR CRYOMODULE										
.0 ± .02		80 K SHIELD												
.00 ± .010		ANGLES 10, 11; TOP COVER STRIP PATCHES 1, 2												
.000 ± .005														
FRACTIONS ± 1/32														
ANGLES ± 0.5°														
ALL SURFACES 														
A	REV.	CHECKED BY: VM		DRAWN BY		DRAWN FOR		DATE		SCALE		D	7102-066 SH. NO. 67 OF 72	REV. A
		APPROVED BY: VM		vm		M.Liepe		8/6/2007						



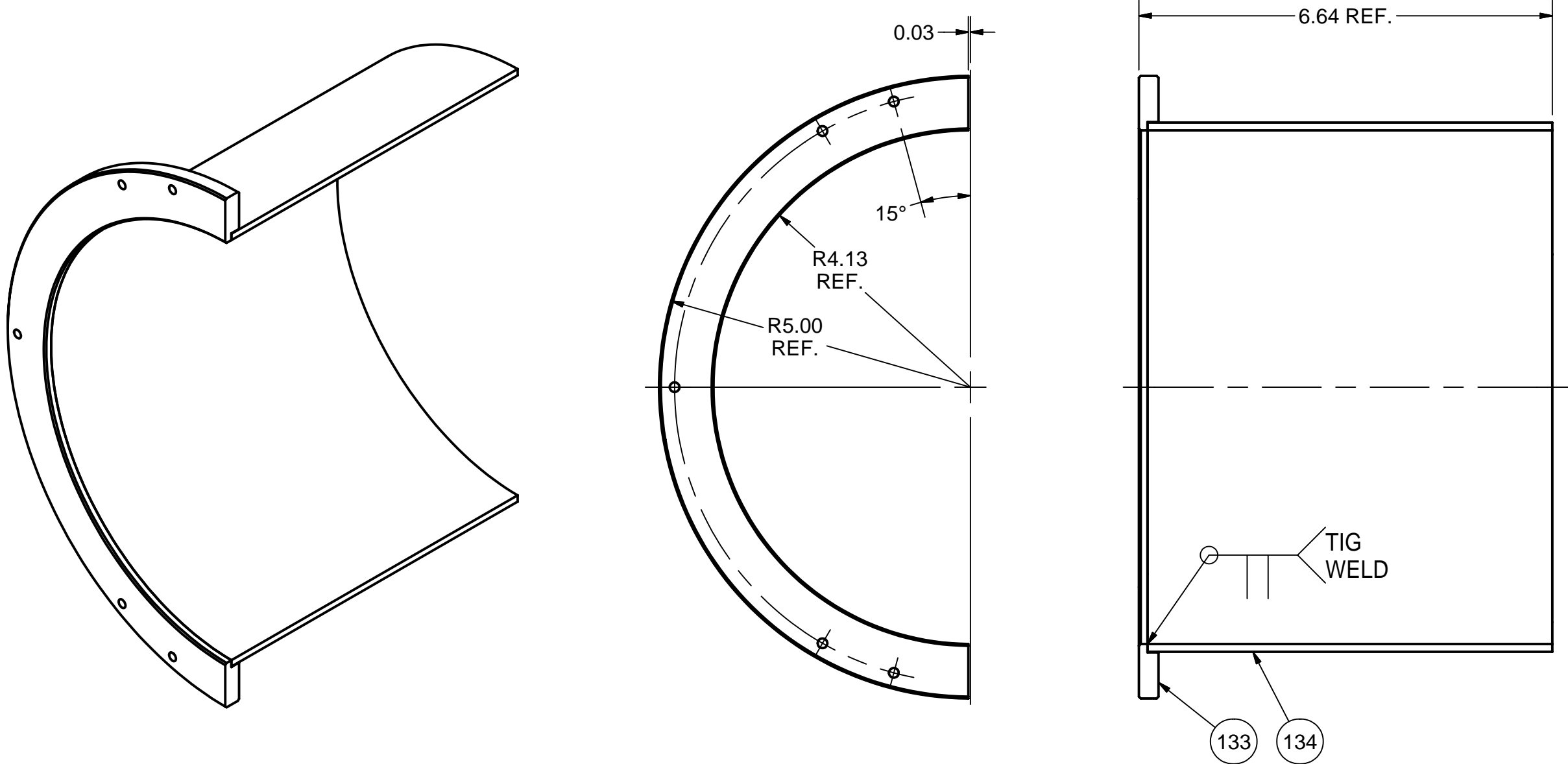
85 **BOTTOM STRIP 1**
FILE NAME: 7102-066
SHEET NO.: 68
DFT. SCALE: 1:2.5
MATERIAL: 1/4" 6061-T6 ALUMIN. SHEET (OR 1/4" x 2" STRIP)
QTY: 1 PER ASSEMBLY
NOTES:

101 **BOTTOM STRIP 2**
FILE NAME: 7102-066
SHEET NO.: 68
DFT. SCALE: 1:2.5
MATERIAL: 1/4" 6061-T6 ALUMIN. SHEET (OR 1/4" x 2" STRIP)
QTY: 1 PER ASSEMBLY
NOTES:

106 **BOTTOM STRIP 3**
FILE NAME: 7102-066
SHEET NO.: 68
DFT. SCALE: 1:2.5
MATERIAL: 1/4" 6061-T6 ALUMIN. SHEET (OR 1/4" x 2" STRIP)
QTY: 1 PER ASSEMBLY
NOTES:

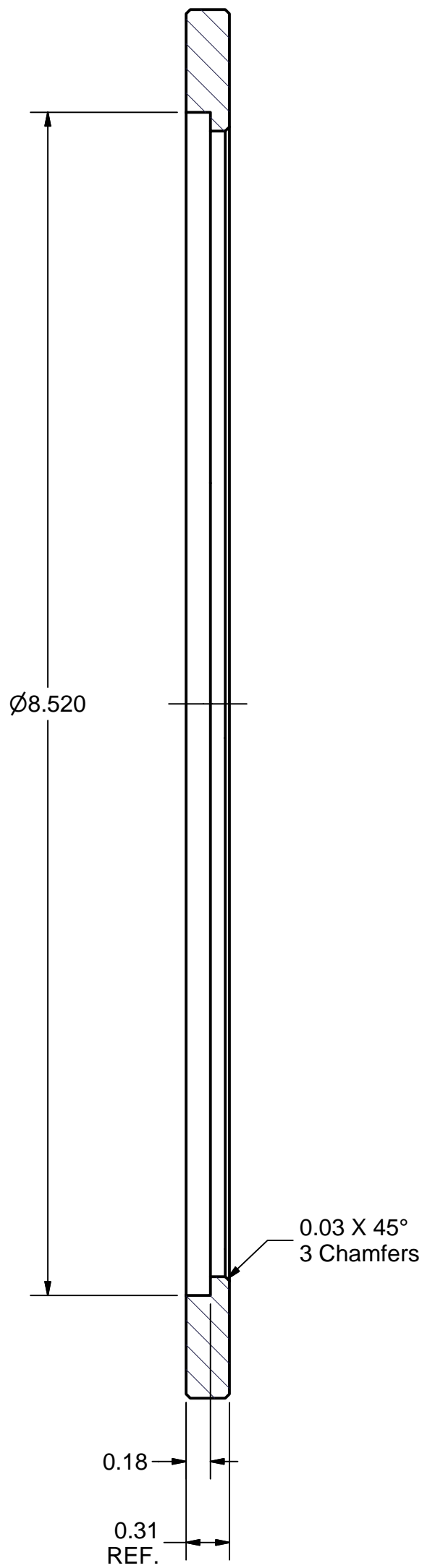
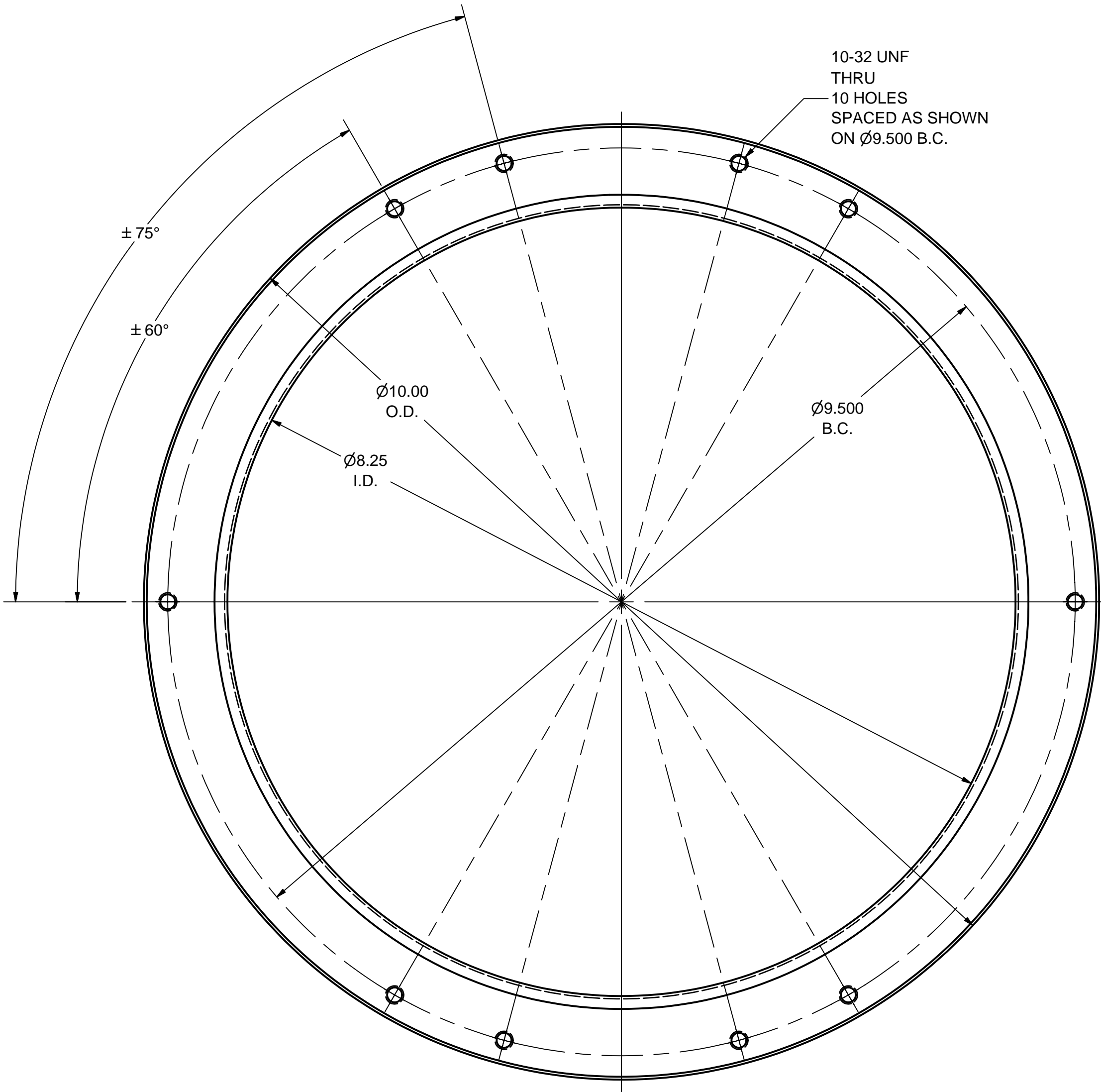
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		QUANTITY										
	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	7102-066 SH. NO. 68 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES		<div> CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>							
			ERL INJECTOR CRYOMODULE 80 K SHIELD BOTTOM STRIPS 1, 2, 3									
			CHECKED BY: VM	DRAWN BY	DRAWN FOR	DATE	SCALE		7102-066	SH. NO. 68 OF 72	REV.	
APPROVED BY: VM	vm	M.Liepe	8/6/2007									

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

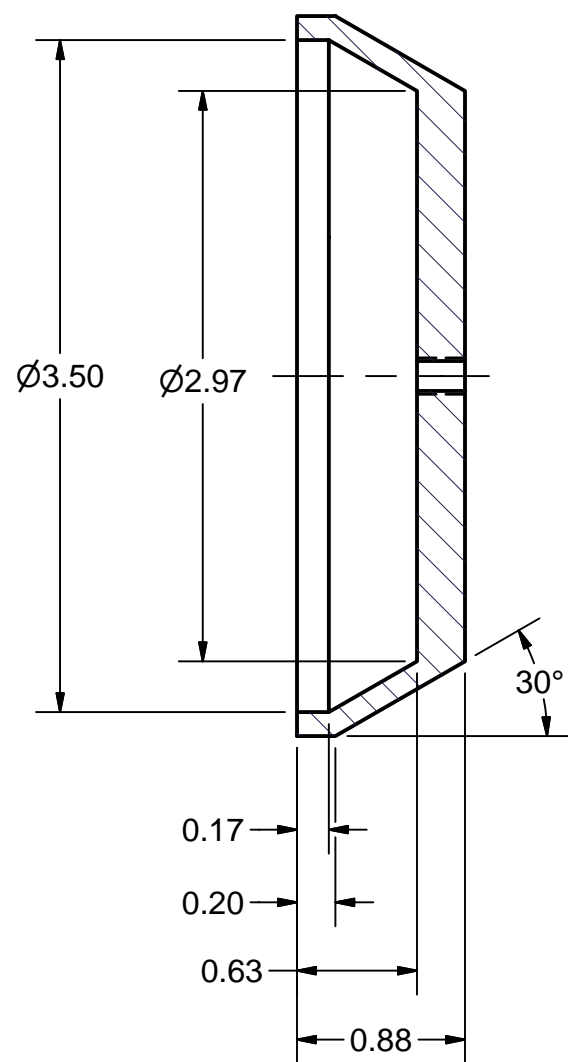
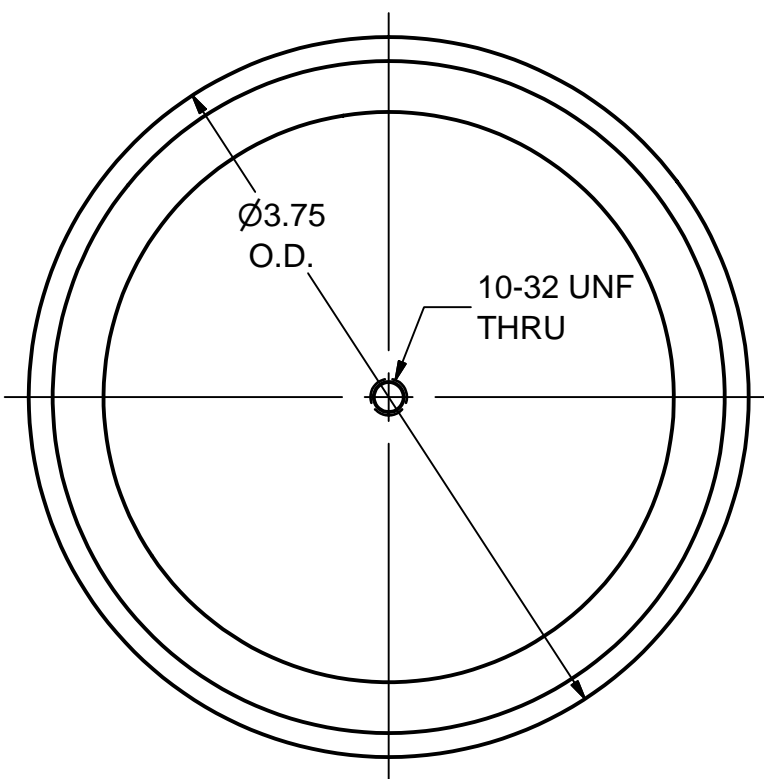


134	7102-066 (Sh.69)	80K SHIELD 8.5" TUBE	1					
133	7102-066 (Sh.69)	80K SHIELD 8.5" FLANGE	1					
132	7102-066 (Sh.69)	EXIT FRONT WALL 8.5" ROUND PORT SUB-ASM	X					

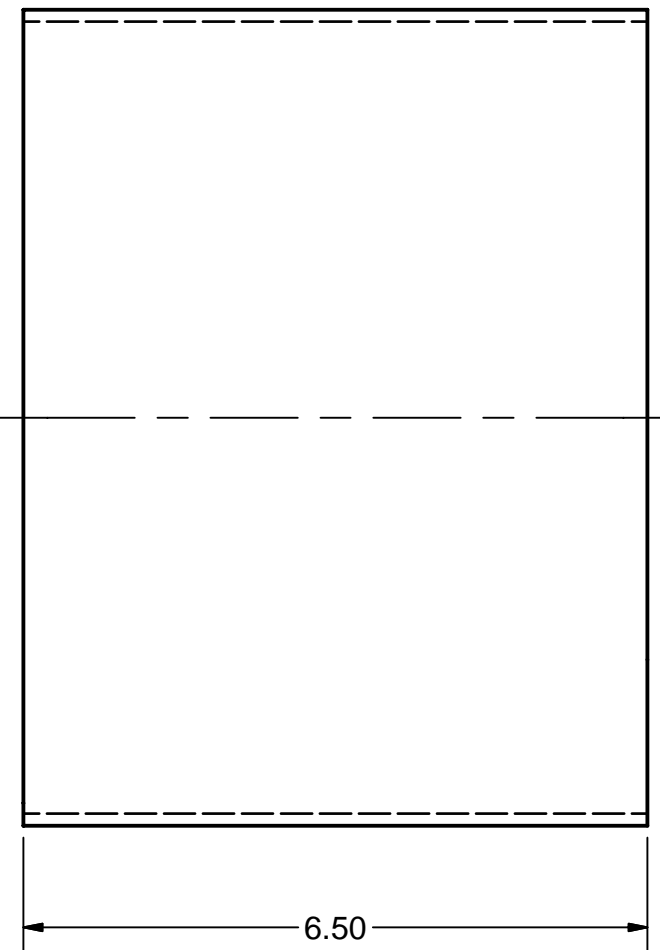
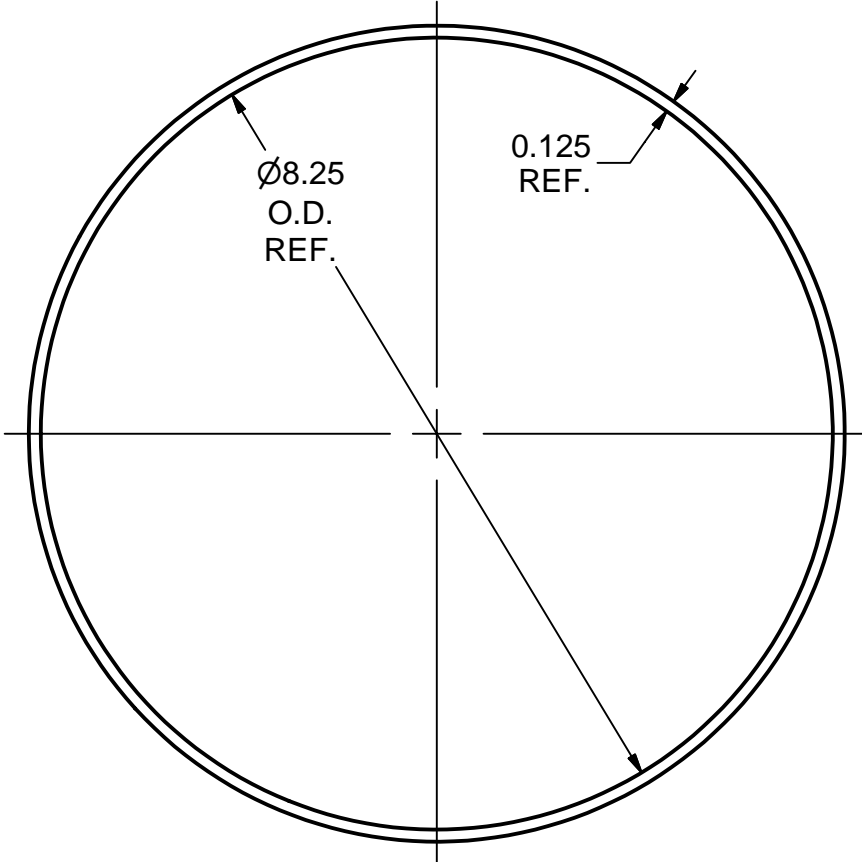
132 EXIT FRONT WALL 8.5" ROUND PORT SUB-ASM
FILE NAME: 7102-066
SHEET NO.: 69
DFT. SCALE: 1:2
MATERIAL:
QTY: 1 (2 HALVES) PER ASSEMBLY
NOTES: 1. AFTER WELDING CUT INTO TWO EQUAL PARTS AS SHOWN.



133 80 K SHIELD 8.5" FLANGE
FILE NAME: 7102-066
SHEET NO.: 69
DFT. SCALE: 1:1
MATERIAL: 5/16" 1100-H14 ALUMIN. SHEET
QTY: 1 PER ASSEMBLY
NOTES:



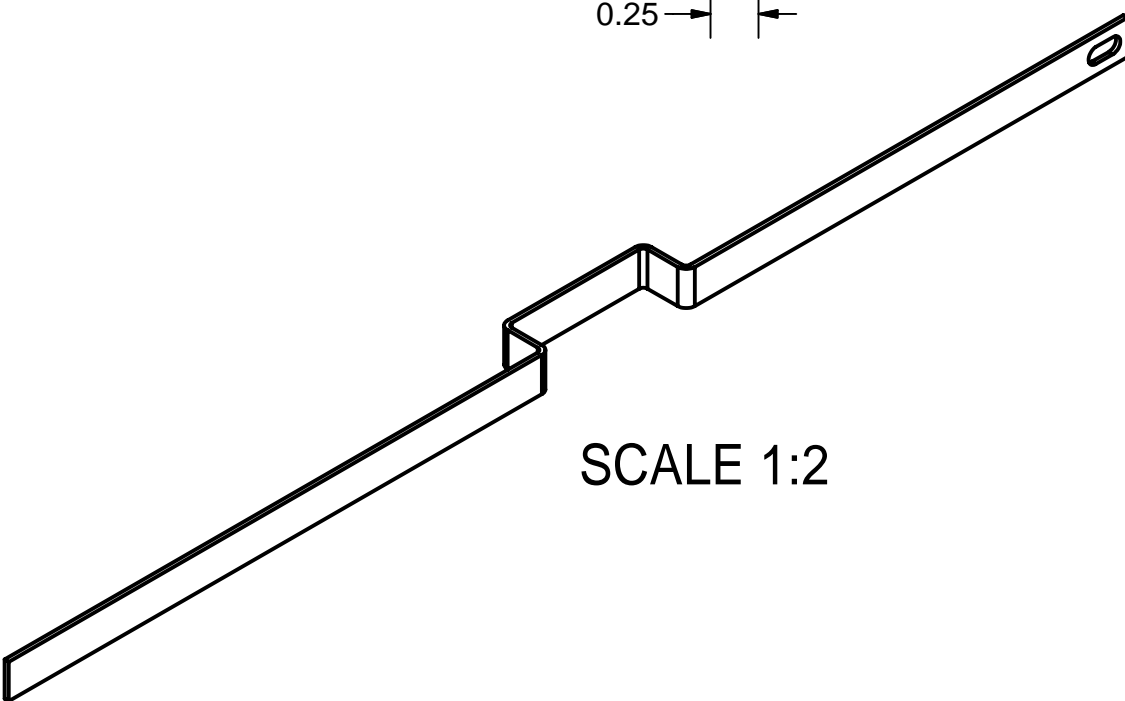
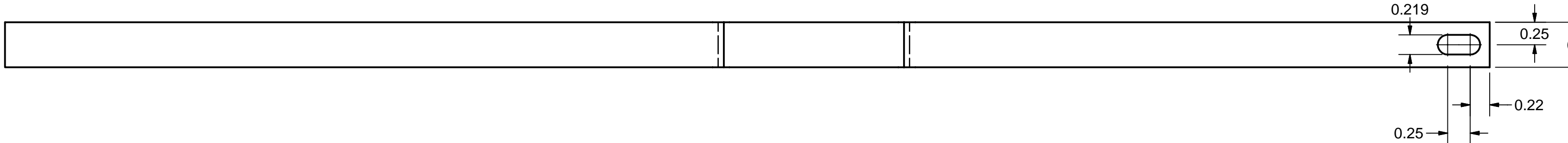
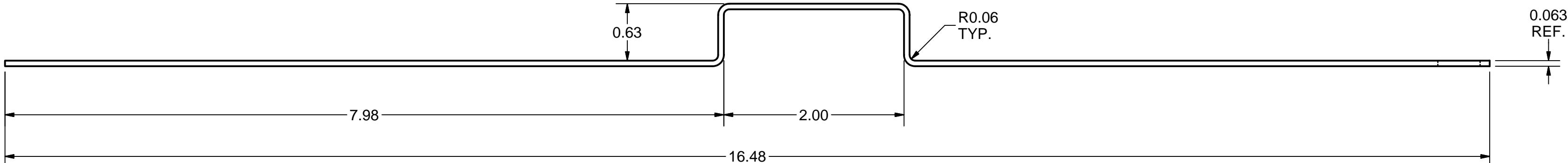
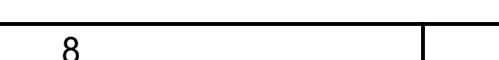
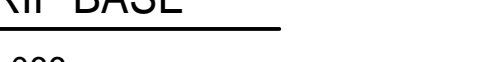
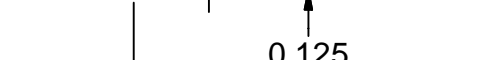
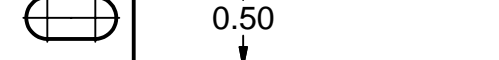
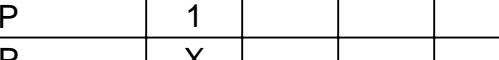
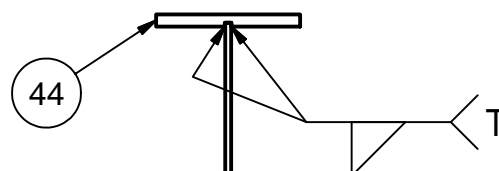
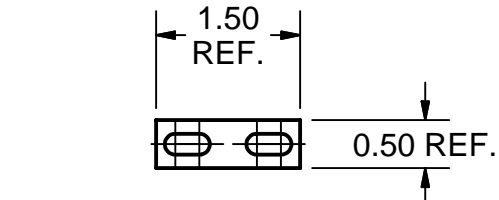
128 FRONT WALL CAP
FILE NAME: 7102-066
SHEET NO.: 69
DFT. SCALE: 1:1
MATERIAL: 1100-H14 ALUMINUM (OR 6061, OR 6063)
QTY: 1 PER ASSEMBLY
NOTES:



134 80 K SHIELD 8.5" TUBE
FILE NAME: 7102-066
SHEET NO.: 69
DFT. SCALE: 1:2
MATERIAL: 8.5"OD x 0.125W 1100-H14 ALUMIN. TUBE
QTY: 1 PER ASSEMBLY
NOTES:

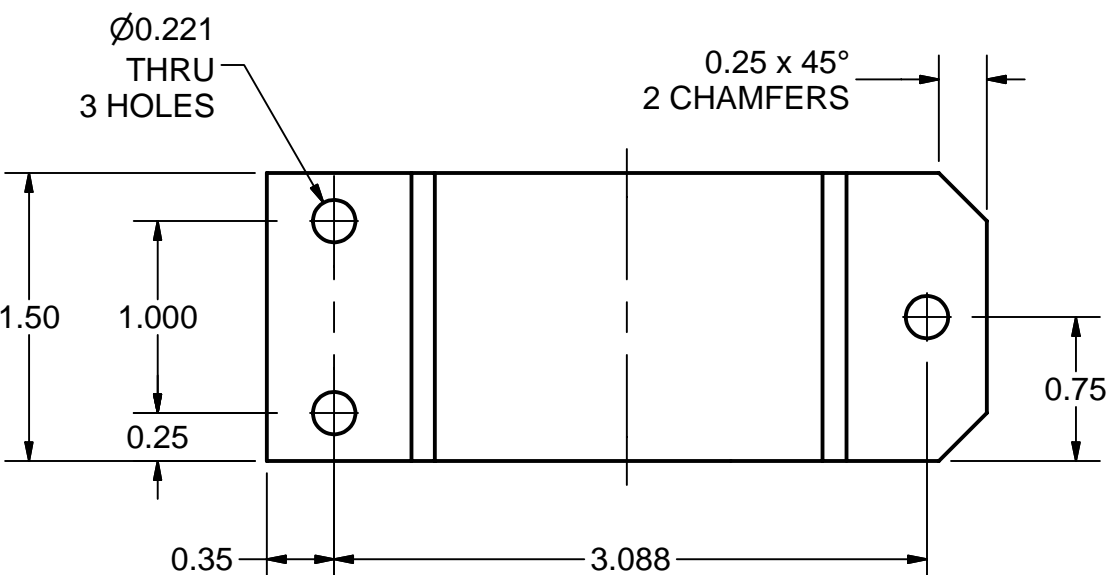
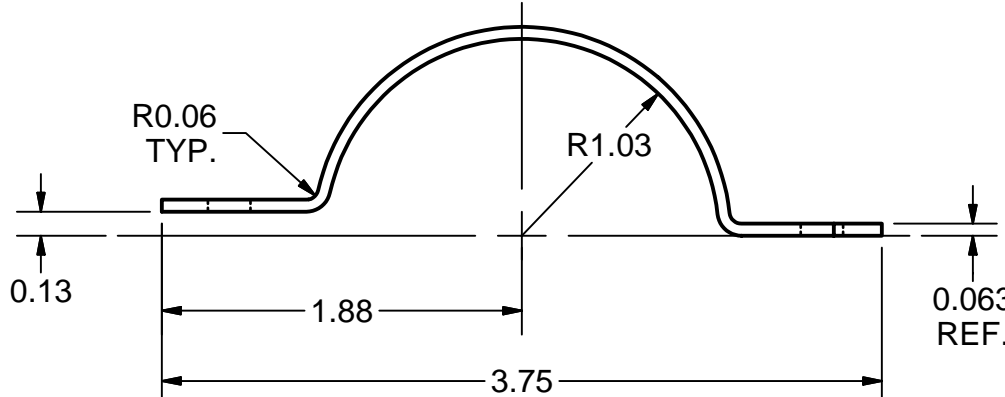
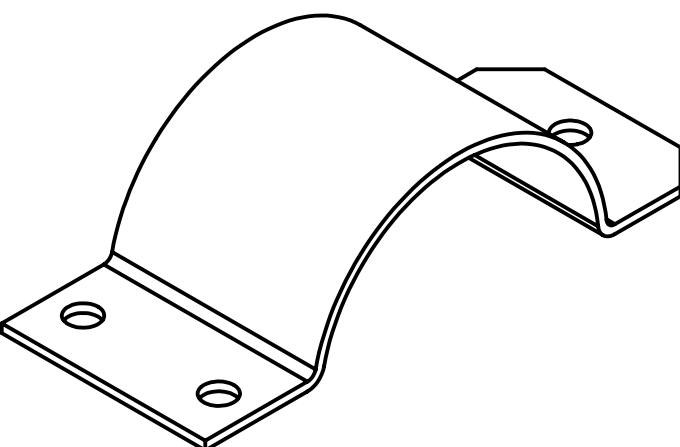
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D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw			QUANTITY				
7102-066 SH. NO. 69 OF 72	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES			 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 ERL INJECTOR CRYMODULE 80 K SHIELD EXIT FRONT WALL 8.5" ROUND PORT SUB-ASM AND PARTS; FRONT WALL CAP				
		REV.	CHECKED BY: VM APPROVED BY: VM	DRAWN BY vm	DRAWN FOR M.Liepe	DATE 8/6/2007	SCALE	D	7102-066 SH. NO. 69 OF 72

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



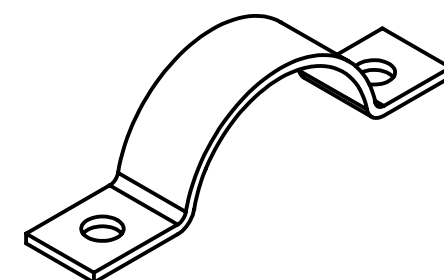
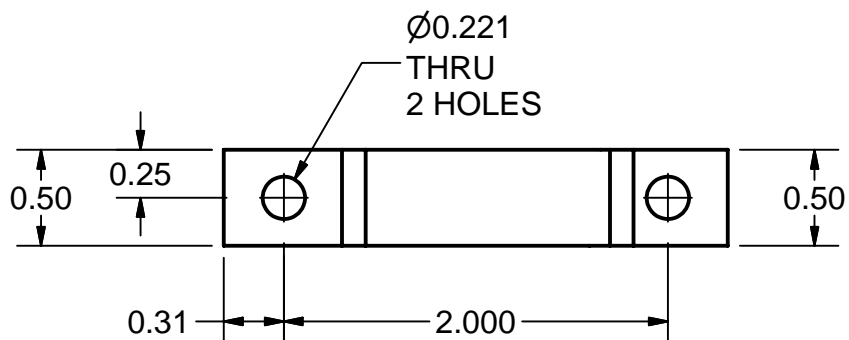
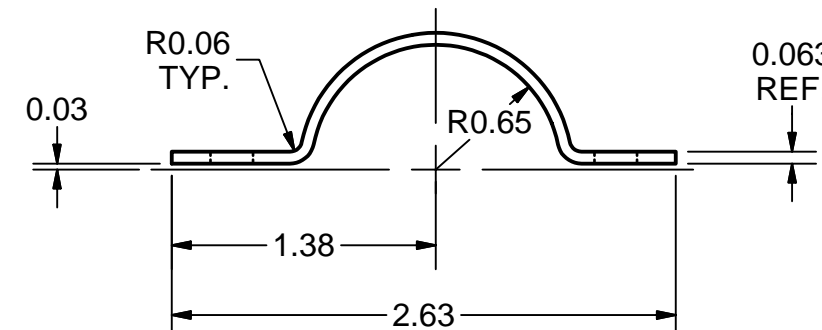
43 WPM TUBE SUPPORT STRIP

FILE NAME: 7102-066
SHEET NO.: 70
DFT. SCALE: 1:1
MATERIAL: 1/16" 316L STAINLES STEEL SHEET
QTY: 2 PER ASSEMBLY
NOTES: 1. DEVELOPED LENGTH: L = 17.56 IN.



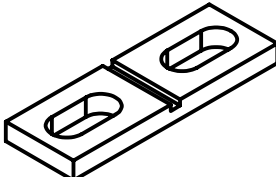
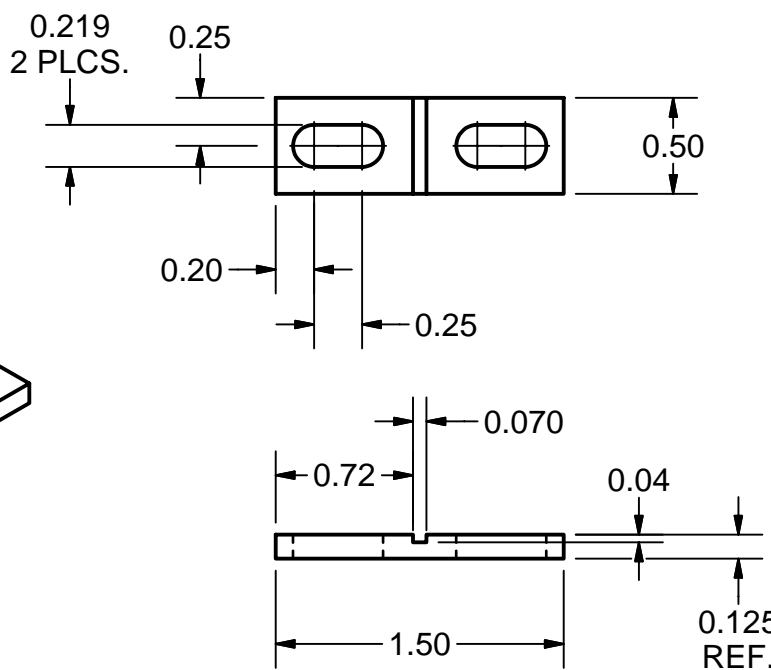
55 2" TUBE CLAMP HALF

FILE NAME: 7102-066
SHEET NO.: 70
DFT. SCALE: 1:1
MATERIAL: 1/16" 316L STAINLES STEEL SHEET
QTY: 24 PER ASSEMBLY
NOTES: 1. DEVELOPED LENGTH: L = 4.65 IN.



56 WPM TUBE CLAMP HALF

FILE NAME: 7102-066
SHEET NO.: 70
DFT. SCALE: 1:1
MATERIAL: 1/16" 316L STAINLES STEEL SHEET
QTY: 4 PER ASSEMBLY
NOTES: 1. DEVELOPED LENGTH: L = 3.21 IN.



44 SUPPORT STRIP BASE

FILE NAME: 7102-066
SHEET NO.: 70
DFT. SCALE: 1:1
MATERIAL: 1/8" 316L STAINLES STEEL SHEET
QTY: 2 PER ASSEMBLY
NOTES:

		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.	
								QUANTITY				
D	PRINT DISTR.	PLOT DATE: 8/23/2007 CAD FILE NAME: 7102-066.idw										
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES ✓			 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 ERL INJECTOR CRYOMODULE 80 K SHIELD WPM TUBE SUPPORT STRIP SUB-ASM AND PARTS; 2" AND WPM TUBES CLAMP HALVES							
SH. NO. 70 OF 72	7102-066 OF 72	CHECKED BY: VM		DRAWN BY vm		DRAWN FOR M.Liepe		DATE 8/6/2007		SCALE D	7102-066 SH. NO. 70 OF 72	REV.
REV.		APPROVED BY: VM										

CORNELL UNIVERSITY
FLOYD R. NEWMAN LABORATORY
ITHACA, NY 14853

ERL INJECTOR CRYOMODULE
80 K SHIELD
WPM TUBE SUPPORT STRIP SUB-ASM AND PARTS; 2" AND WPM TUBES CLAMP HALVES

