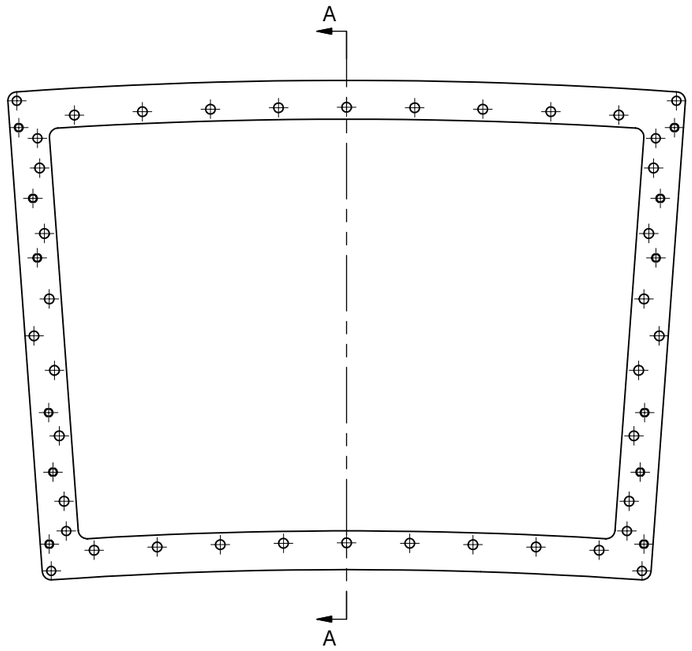
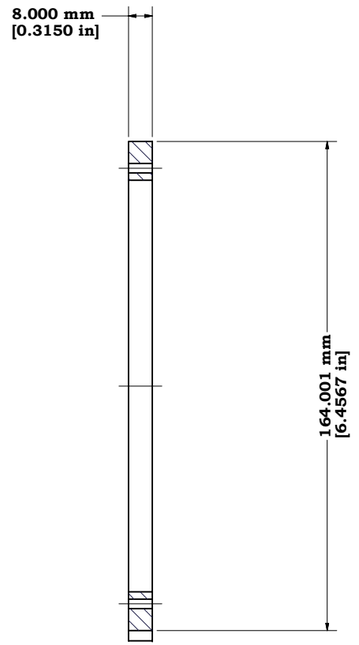
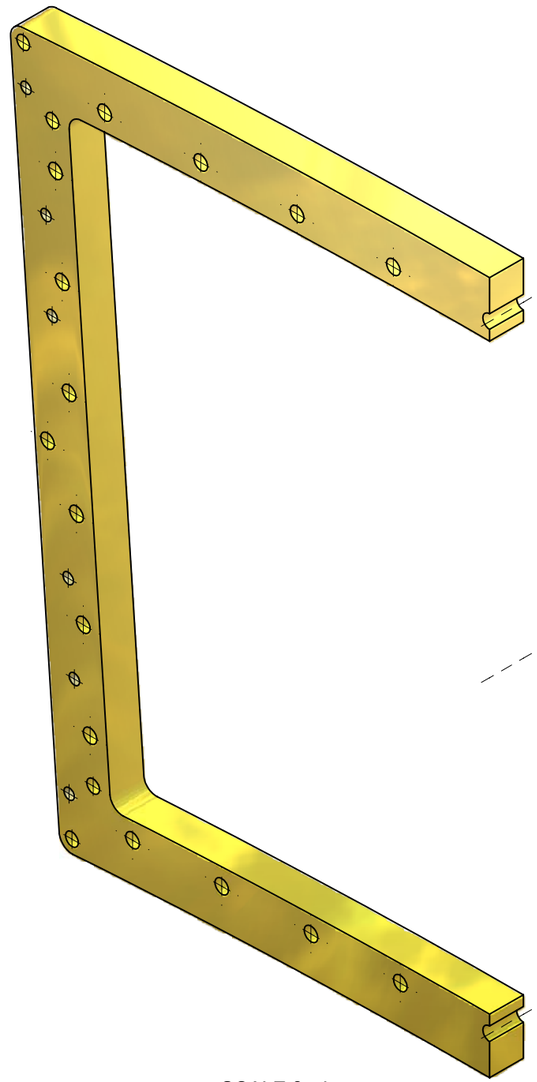
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



SCALE 1 : 1



SECTION A-A
SCALE 1 : 1



SCALE 2 : 1

Matl: Alum. 6061 T651
Part requires multi-step process.
1) Machine all surfaces and holes (unless noted) leaving 0.030inch extra material.
(At least 0.020inch of material is to be removed from all surfaces.)
2) Deliver part to Cornell for stress relief process (Liquid Nitrogen cold shock).
3) Machine all surfaces and holes (unless noted) leaving 0.010inch extra material.
(At least 0.010inch of material is to be removed from all surfaces.)
4) Deliver part to Cornell for stress relief process (Liquid Nitrogen cold shock).
5) Machine all surfaces and holes to final specifications.

Technical questions,including clarifications and proposals for exceptions,
are to be directed to
Dan Peterson
Senior Physicist, Laboratory for Elementary-Particle Physics, Cornell University
607-255-8784
dpp@lepp.cornell.edu

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

D | PRINT DISTR. CR-1

PLOT DATE: 3/12/2008
CAD FILE NAME: 6080-110 MountingBracket.idw

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES;
TOLERANCES ON:
.0 ± .02
.00 ± .010
.000 ± .005
FRACTIONS ± 1/32
ANGLES ± 0.5°
ALL SURFACES √

CHECKED BY: Peterson
APPROVED BY: Peterson

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LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS

CORNELL UNIVERSITY
Floyd R. Newman Laboratory
Ithaca, NY 14853

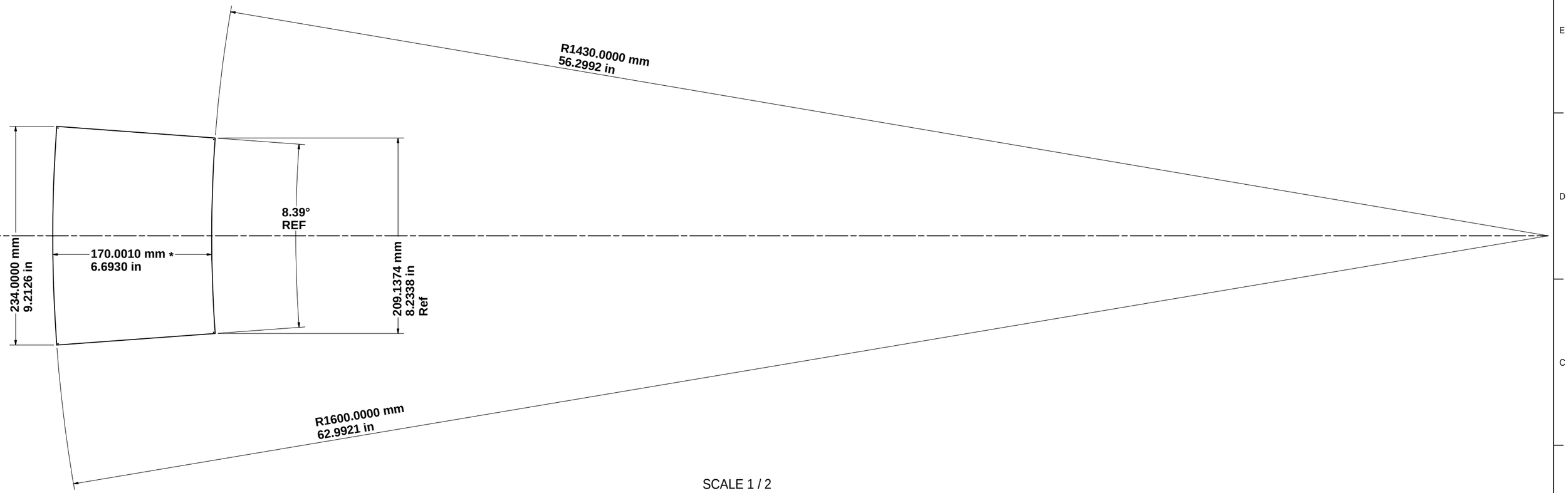
LCTPC Large Prototype Mounting Bracket

DRAWN BY	DRAWN FOR	DATE	SCALE			REV.
MDS	Peterson	12/5/2007	Noted	D	6080-110 SH. NO. 1 OF 6	

6080-110 REV. 1 SH. 1 OF 6

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.

*** NOTE: THIS DIMENSION INCLUDES THE SMALL, NON ZERO, OFFSET OF THE RADII OF CURVATURE NEEDED TO KEEP THE MODEL ADAPTABLE.**



SCALE 1 / 2

NOTE: This is the Bounding Box.
It is an abstract geometrical shape,
within which the Mounting Bracket is defined

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

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CAD FILE NAME: 6080-110 MountingBracket.idw

D | 6080-110 SH. NO. 2 OF 6 | REV: CR-1

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DIMENSIONS ARE IN INCHES;
TOLERANCES ON:
.0 ± .02
.00 ± .010
.000 ± .005
FRACTIONS ± 1/32
ANGLES ± 0.5°
ALL SURFACES √

CHECKED BY: Peterson
APPROVED BY: Peterson

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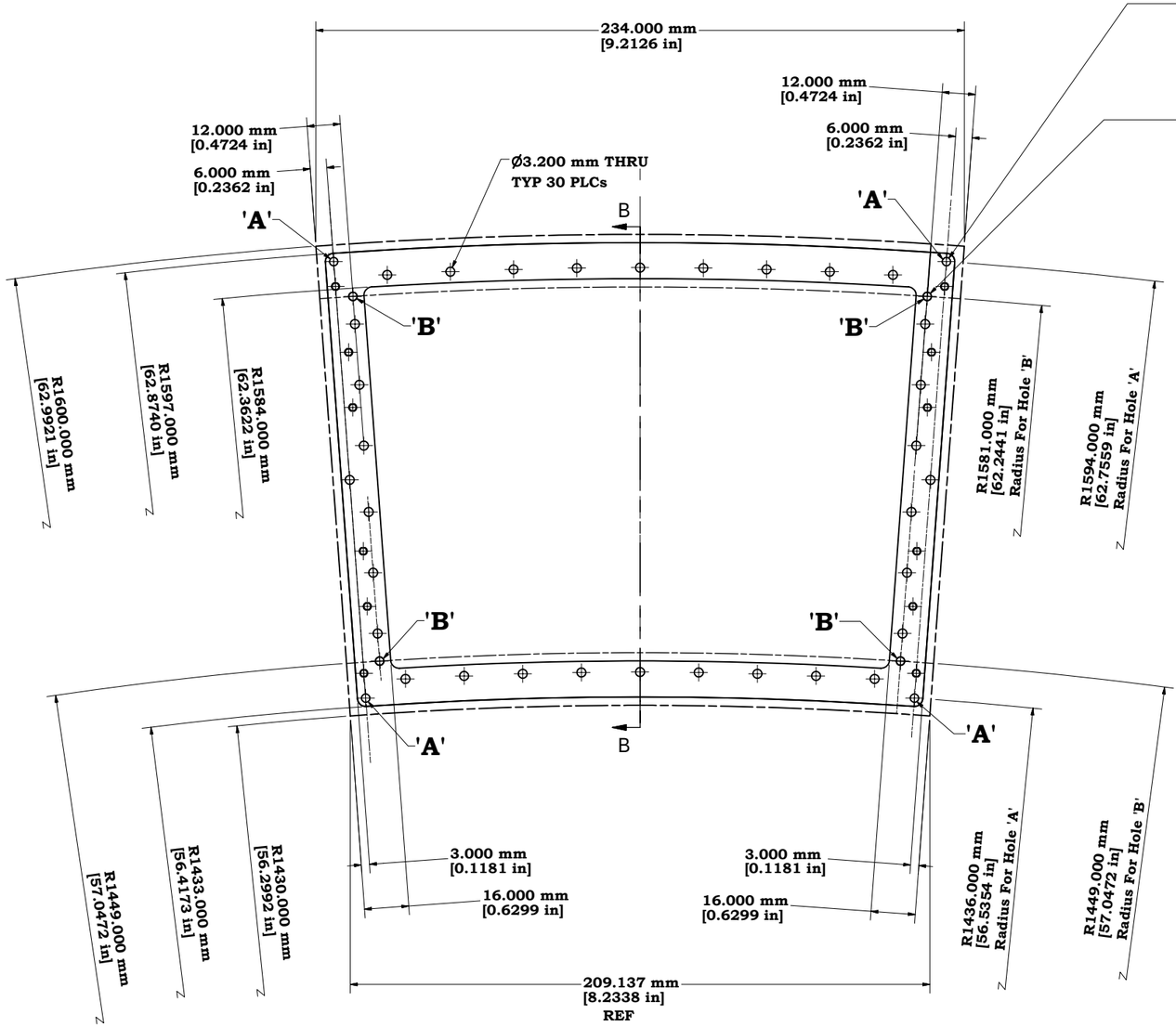
LCTPC Large Prototype Mounting Bracket

DRAWN BY	DRAWN FOR	DATE	SCALE			REV.
MDS	Peterson	12/5/2007	NOTED	D	6080-110 SH. NO. 2 OF 6	

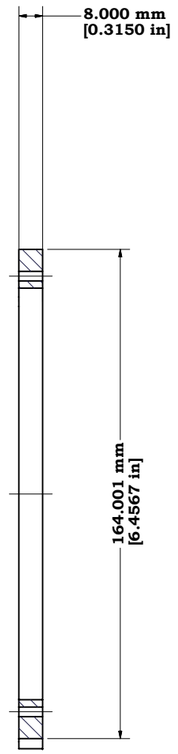
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



SCALE 1 : 1

Ø3.000 $^{+0.010}_{-0.000}$ mm THRU
Location Tolerance: 0.025mm (0.001 in) True Position
Reamed Dowel hole
TYP 4 PLCS Marked 'A'

Ø3.000 $^{+0.010}_{-0.000}$ mm THRU
Location Tolerance: 0.025mm (0.001 in) True Position
Reamed Dowel hole
TYP 4 PLCs Marked 'B'



SECTION B-B
SCALE 1 : 1

Dowel holes have location tolerance 0.001 inch true position.
Surface features have tolerance +/- 0.005 inch within a frame defined by the dowel holes.

Certification measurements for the dowel holes are shown on sheet 6.

Dowel holes may be made in process step 5 without pre-drilling in previous steps.

This sheet shows specifications for profile dimensions and precision dowel holes.

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

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PLOT DATE: 3/12/2008
CAD FILE NAME: 6080-110 MountingBracket.idw

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES;
TOLERANCES ON:
.0 ± .02
.00 ± .010
.000 ± .005
FRACTIONS ± 1/32
ANGLES ± 0.5°
ALL SURFACES

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LCTPC Large Prototype Mounting Bracket

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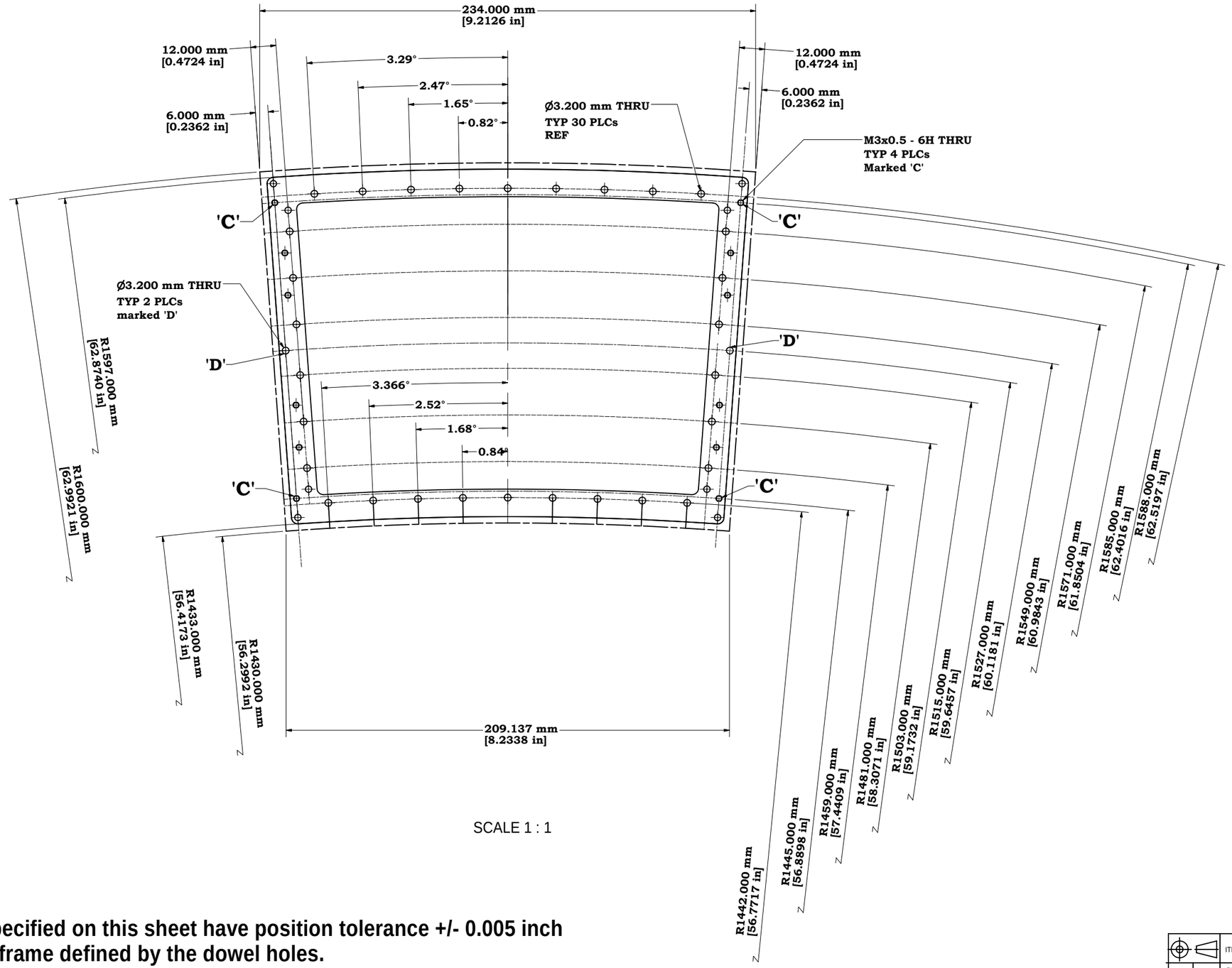
MDS	Peterson	12/5/2007	Noted	D	6080-110 SH. NO. 3 OF 6	

6080-110 REV. 3 SC 6

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



SCALE 1 : 1

Holes specified on this sheet have position tolerance +/- 0.005 inch within a frame defined by the dowel holes.

This sheet shows specifications of:

clearance holes for screws mating to 6080-104 (30 PLCs),
clearance holes for screws mating to 6080-102 (2 PLCs), and
thread holes for extraction of this part from 6080-102 (40 PLCs).

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

PRINT DISTR. CR-1

PLOT DATE: 3/12/2008
CAD FILE NAME: 6080-110 MountingBracket.idw

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES;
TOLERANCES ON:
.0 ± .02
.00 ± .010
.000 ± .005
FRACTIONS ± 1/32
ANGLES ± 0.5°
ALL SURFACES √

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LCTPC Large Prototype Mounting Bracket

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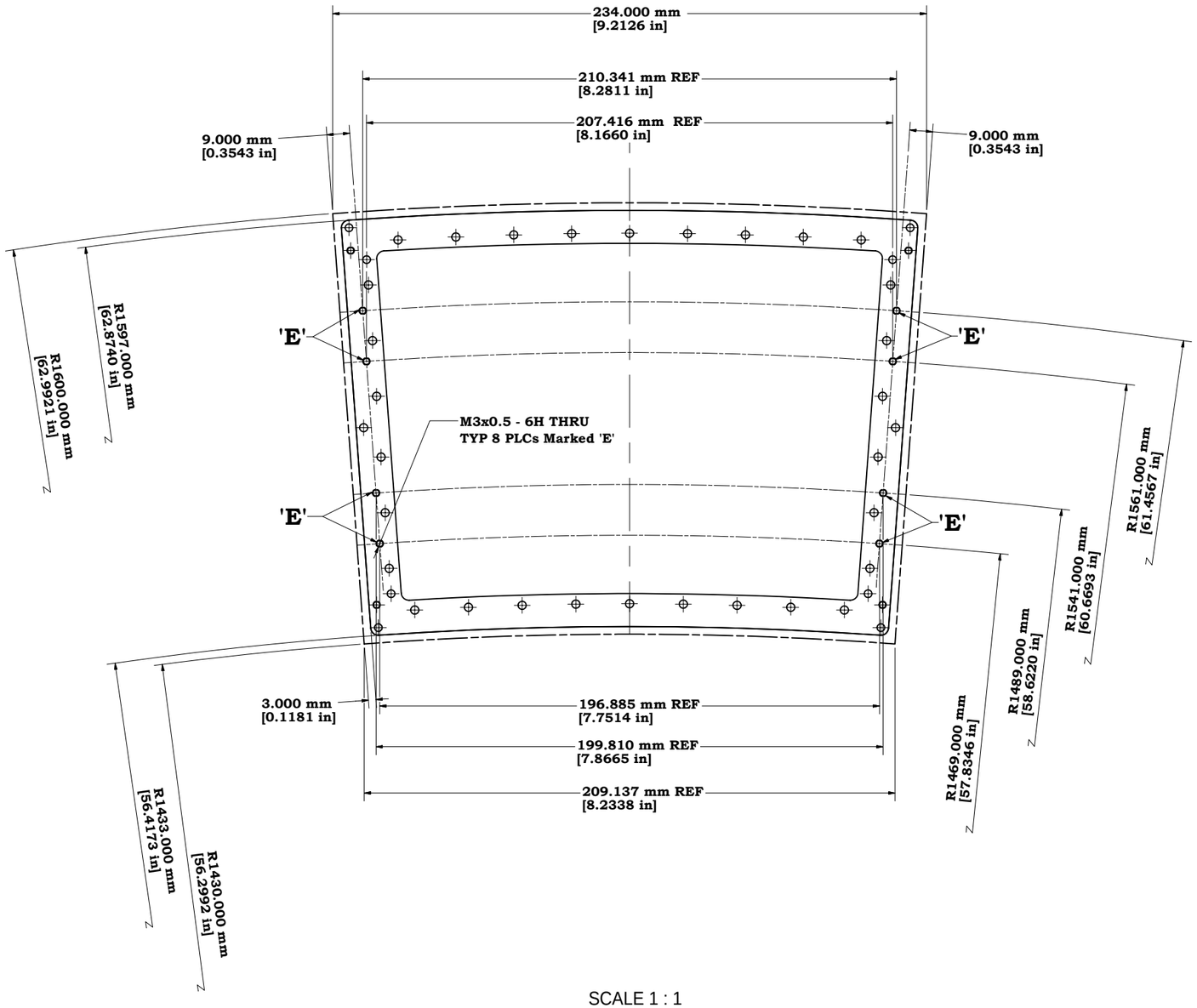
MDS	Peterson	12/5/2007	Noted	D	6080-110 SH. NO. 4 OF 6	

6080-110 REV. 4 SH. 4 OF 6

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



SCALE 1 : 1

Holes specified on this sheet have position tolerance +/- 0.005 inch within a frame defined by the dowel holes.

This sheet shows specifications for strain relief holes.

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

PRINT DISTR. D

PLOT DATE: 3/12/2008
CAD FILE NAME: 6080-110 MountingBracket.idw

6080-110 SH. NO. 5 OF 6

REV. CR-1

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DIMENSIONS ARE IN INCHES;
TOLERANCES ON:
.0 ± .02
.00 ± .010
.000 ± .005
FRACTIONS ± 1/32
ANGLES ± 0.5°
ALL SURFACES 63

CHECKED BY: Peterson
APPROVED BY: Peterson

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LCTPC Large Prototype Mounting Bracket

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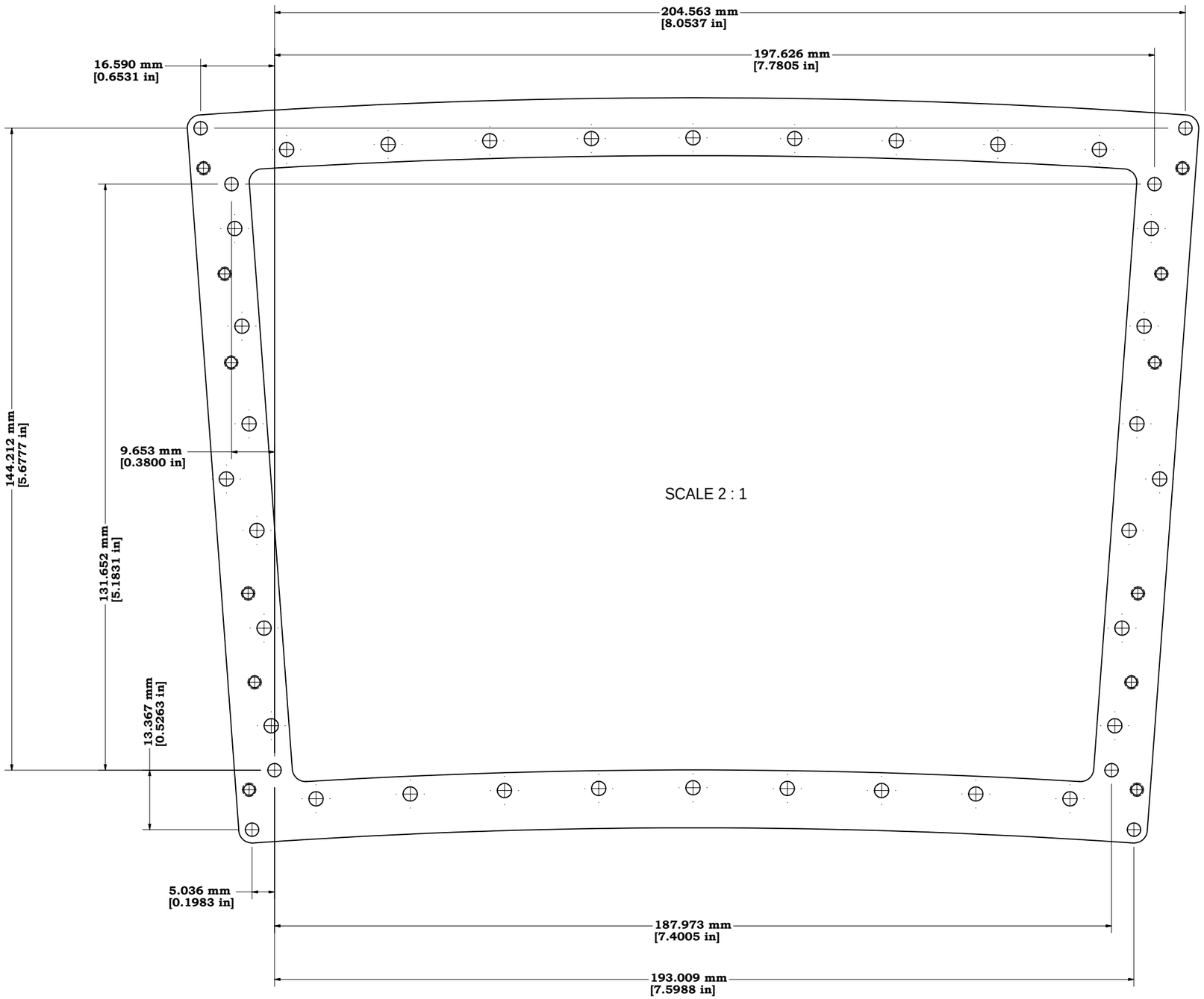
MDS	Peterson	12/5/2007	Noted	D	6080-110 SH. NO. 5 OF 6	

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



SCALE 2 : 1

This sheet shows certification measurements.

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

PRINT DISTR. CR-1

PLOT DATE: 3/12/2008
CAD FILE NAME: 6080-110 MountingBracket.idw

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TOLERANCES ON:
.0 ± .02
.00 ± .010
.000 ± .005
FRACTIONS ± 1/32
ANGLES ± 0.5°
ALL SURFACES

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LCTPC Large Prototype Mounting Bracket

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MDS	Peterson	12/5/2007	Noted	D	6080-110 SH. NO. 6 OF 6	

SH. NO. 6 OF 6 — 6080-110 — REV.