

REVISIONS			
REV.#	DESCRIPTION	DATE	BY
1	Redrawn in SolidWorks, Removed 21B169 from sheet 1 & 2 of 3	9/4/09	RML
2	Updated Formats & re-established Charts & Views that were out of Spec. Added 21B165 to: Sht.1 Chart and Sht.2 Views.	10/20/11	ASJ

**21B181
CARRIER
ASSEMBLY**

**BRACKET
ASSEMBLY**
(21B172 shown;
SEE CHART BELOW)

X = RECOMMENDED DISTANCE
TO ACHIEVE BEST SASH
OPERATION
= 1.821

Y = **X** - GUIDE RAIL THICKNESS
= 1.821 - .095 = 1.726

A = RECOMMENDED MINIMUM
STILE LEG DEPTH
= 1.184 (MAXIMUM BRACKET)

B = **Y** - **A**
= 1.726 - 1.184 = .542

TAKE-OUT CLEARANCE = .1875

C = STILE / JAMB OVERLAP
= **B** - TAKE-OUT CLEARANCE
= .542 - .1875 = .3545

.103
NOMINAL

45°

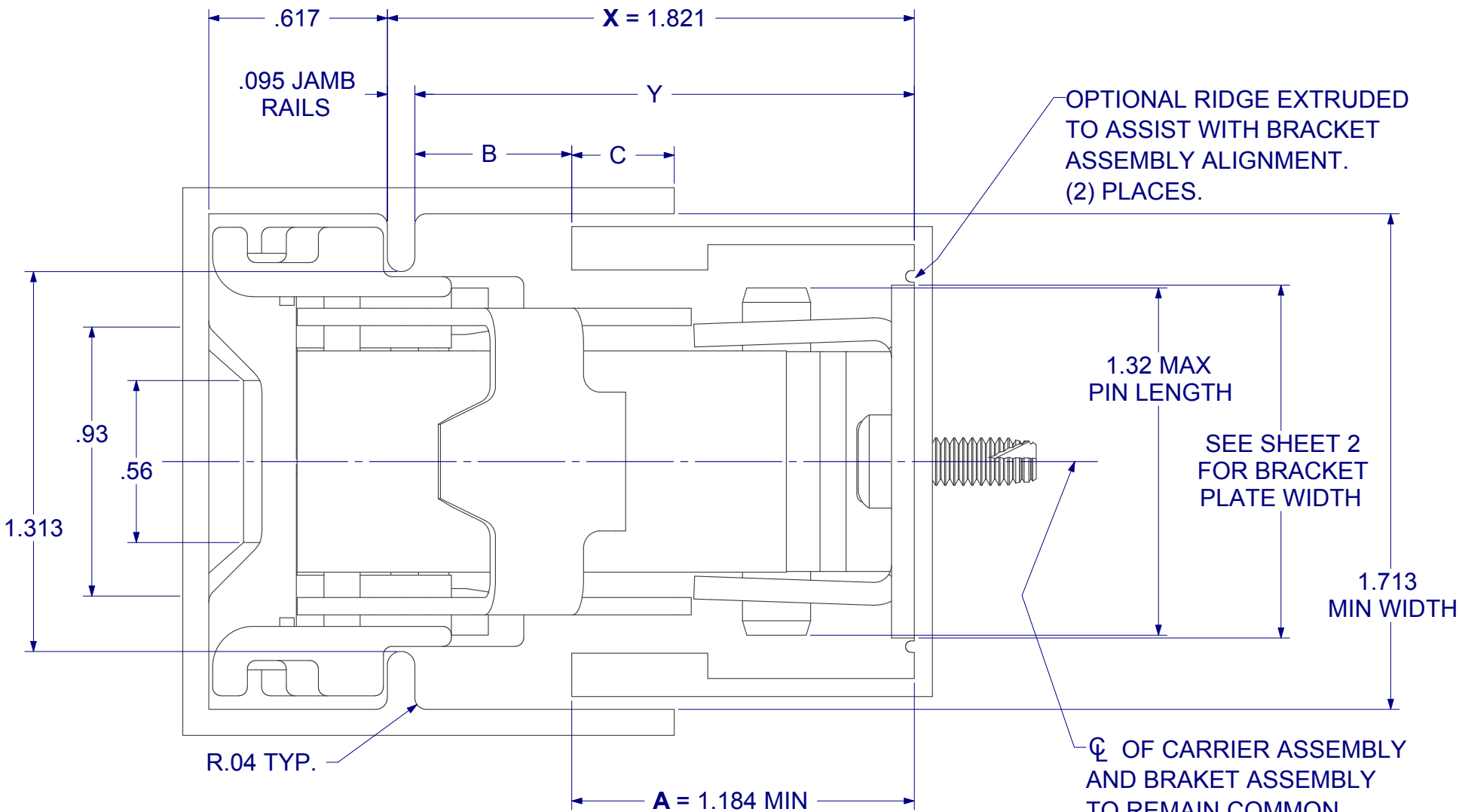
.184
MAX.

DO NOT
SLIT WALL
OF LANCE

.120

SEE CHART FOR
DIMENSION "**CH**"
(NOTE: THE LARGER THIS
DIMENSION, THE MORE
DIFFICULT CARRIER ACCESS
WILL BE DURING SERVICE.)

SEE CHART FOR DIMENSION "**BH**".
(THE BOTTOM OF THE BRACKET
ASSEMBLY SHOULD BE MOUNTED
CLOSE TO FLUSH WITH BOTTOM
OF THE LIFT / KEEPER RAIL.)



BRACKET ASSEMBLY	DIM "BH"	DIM "CH"
21B165	0.306	0.711
21B168	0.190	0.711
21B172	0.190	0.085
21B175	0.190	0.711
21B176	0.914	0.711

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ALL TOLERANCES ARE AS FOLLOWS:
TWO DECIMAL PLACES ± .010"
THREE DECIMAL PLACES ± .005"
ANGULAR ± 1°
FRACTIONS ± 1/64"

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Manufacturing Company 2605 Manitou Road, Rochester, New York
TITLE (ULTRA-LIFT)

TAKE-OUT SYSTEM III LAYOUT

THIRD ANGLE PROJECTION

B

EX NO

SIZE

SCALE 2:1

DRAWN RML

CHECKED

APPROVED RML

DWG NO

DATE 07/25/05

DATE 10/21/11

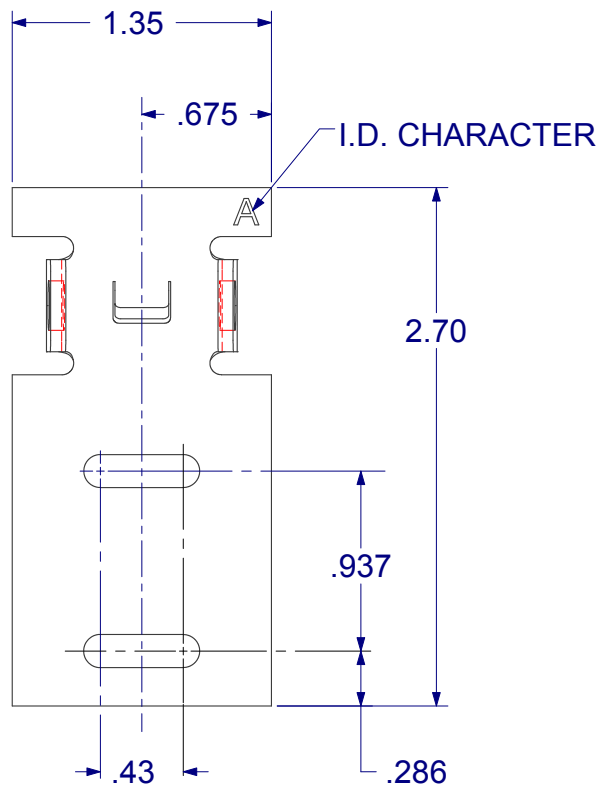
DATE 10/21/11

SL-14B-055

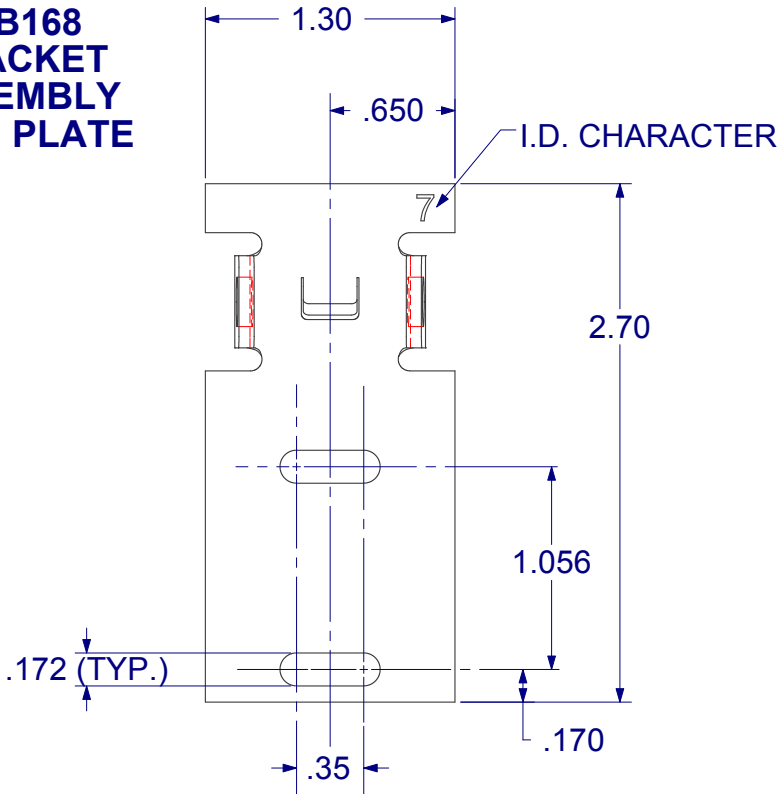
SHEET 1 OF 3

2

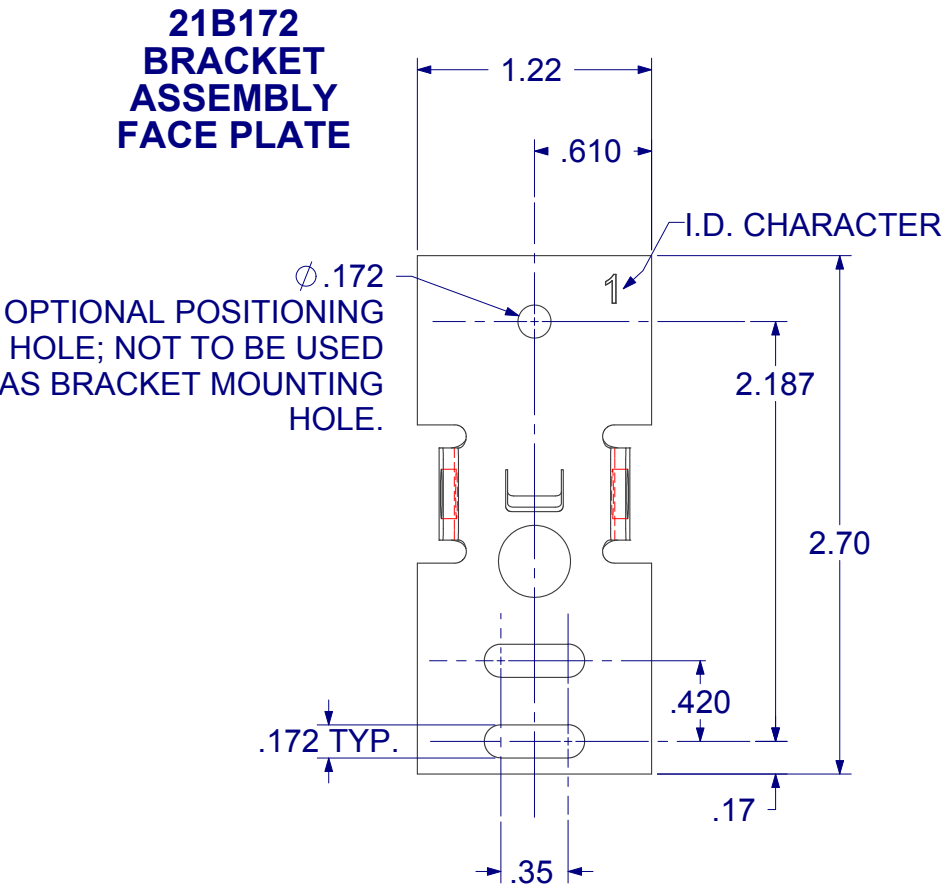
21B165
BRACKET
ASSEMBLY
FACE PLATE



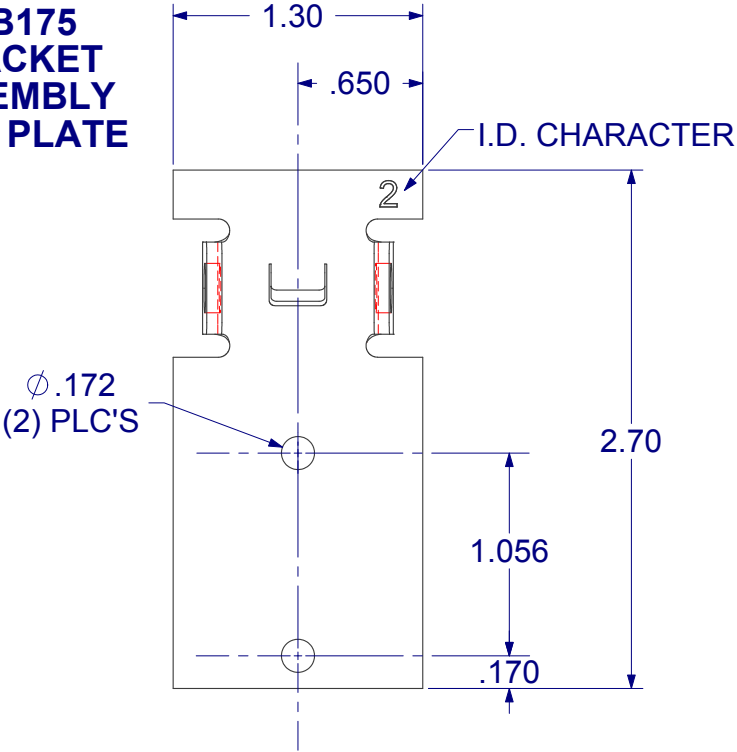
21B168
BRACKET
ASSEMBLY
FACE PLATE



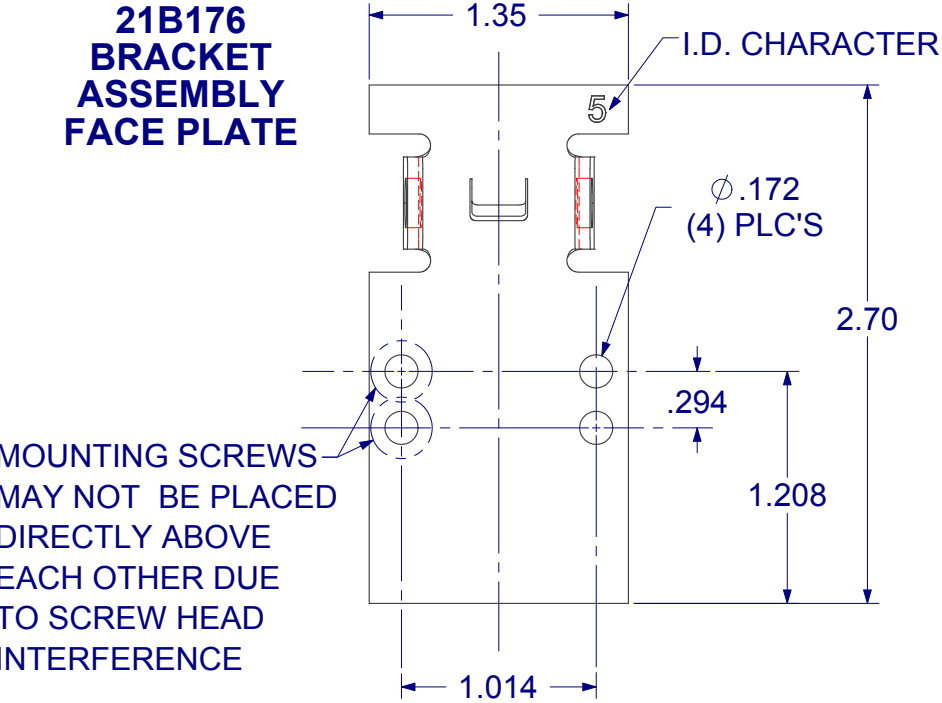
21B172
BRACKET
ASSEMBLY
FACE PLATE



21B175
BRACKET
ASSEMBLY
FACE PLATE

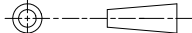


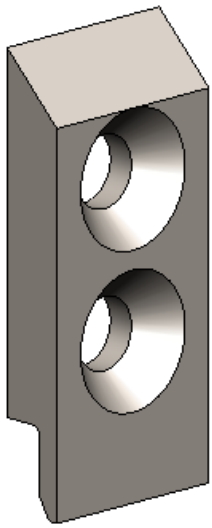
21B176
BRACKET
ASSEMBLY
FACE PLATE



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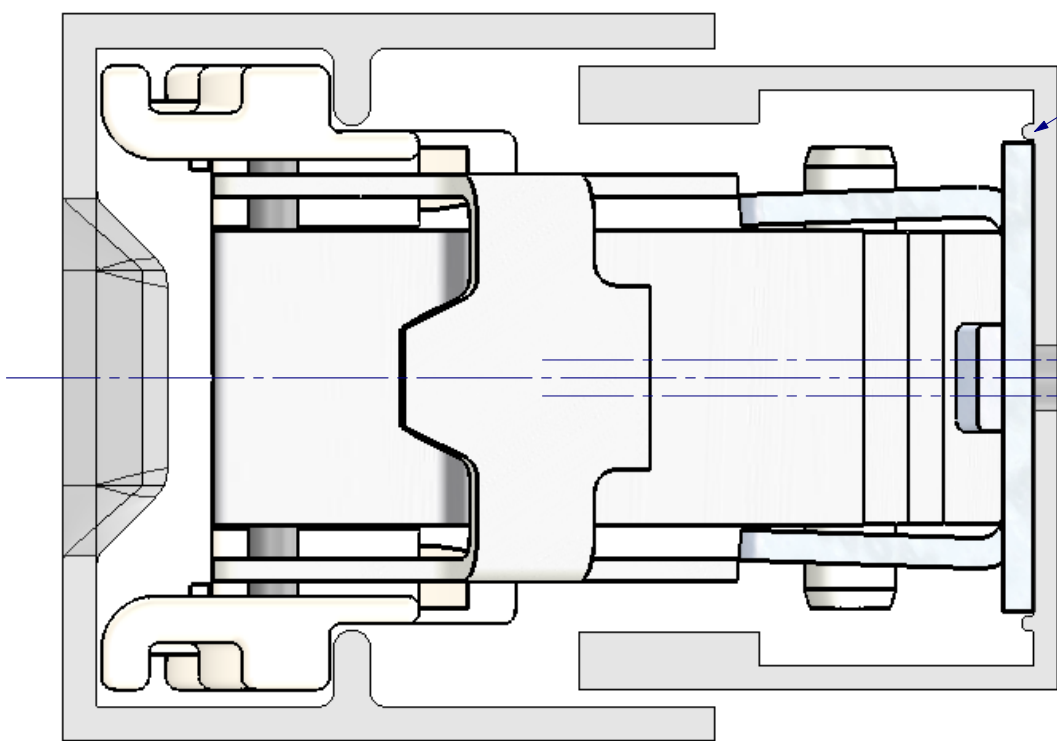
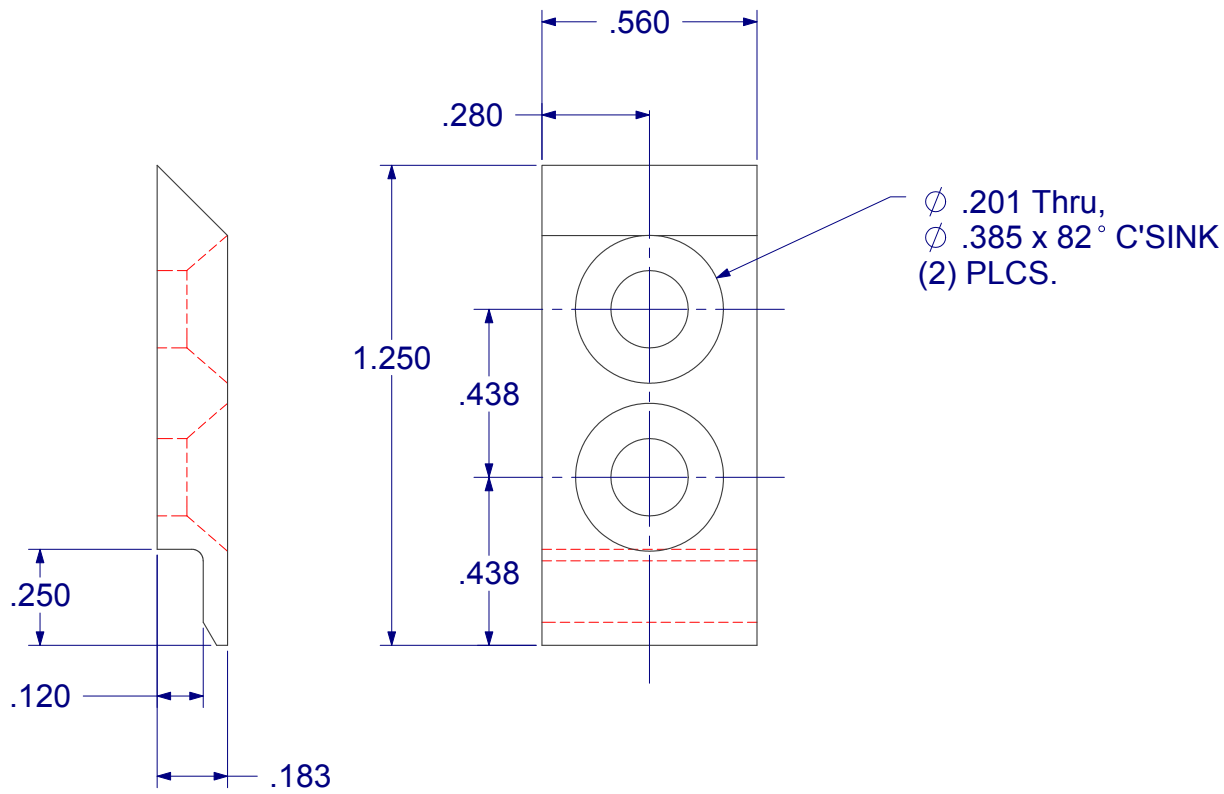
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THREE DECIMAL PLACES ± .005"
ANGULAR ± 1°
FRACTIONS ± 1/64"

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Manufacturing Company 2605 Manitou Road, Rochester, New York				
TITLE (ULTRA-LIFT)				
THIRD ANGLE PROJECTION		DRAWN	RML	DATE 07/27/05
		CHECKED		DATE
B EX NO		APPROVED	RML	DATE 10/21/11
SIZE		DWG NO	SL-14B-055	
SCALE 1:1		SHEET 2 OF 3		REV 2



OPTIONAL IDEA FOR A BOLT ON LANCE
INSTEAD OF SEMI-PERFORATED LANCE
IN JAMB CHANNEL.

NOTE: DRAWING SHOWN IS INTENDED TO CONVEY
GEOMETRIC RELATIONSHIPS ONLY. STRENGTH
OF FINAL PART DEPENDS ON PROPER SELECTION
OF MATERIAL AND IS THE RESPONSIBILITY OF
THE MANUFACTURER.



RECOMMEND RIDGE
IN PROFILE TO ASSIST
WITH BRACKET
ASSEMBLY ALIGNMENT.
(2) PLACES.

CL OF BRACKET AND CARRIER
TO REMAIN COMMON $\pm .047$
AFTER INSTALLATION. THIS WILL
ALLOW THE CARRIER'S LATCH TO
SWEEP AROUND THE BRACKET ARM.

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THREE DECIMAL PLACES $\pm .005''$
ANGULAR $\pm 1^\circ$
FRACTIONS $\pm 1/64''$

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SCALE 2:1		SHEET 3 OF 3		REV 2