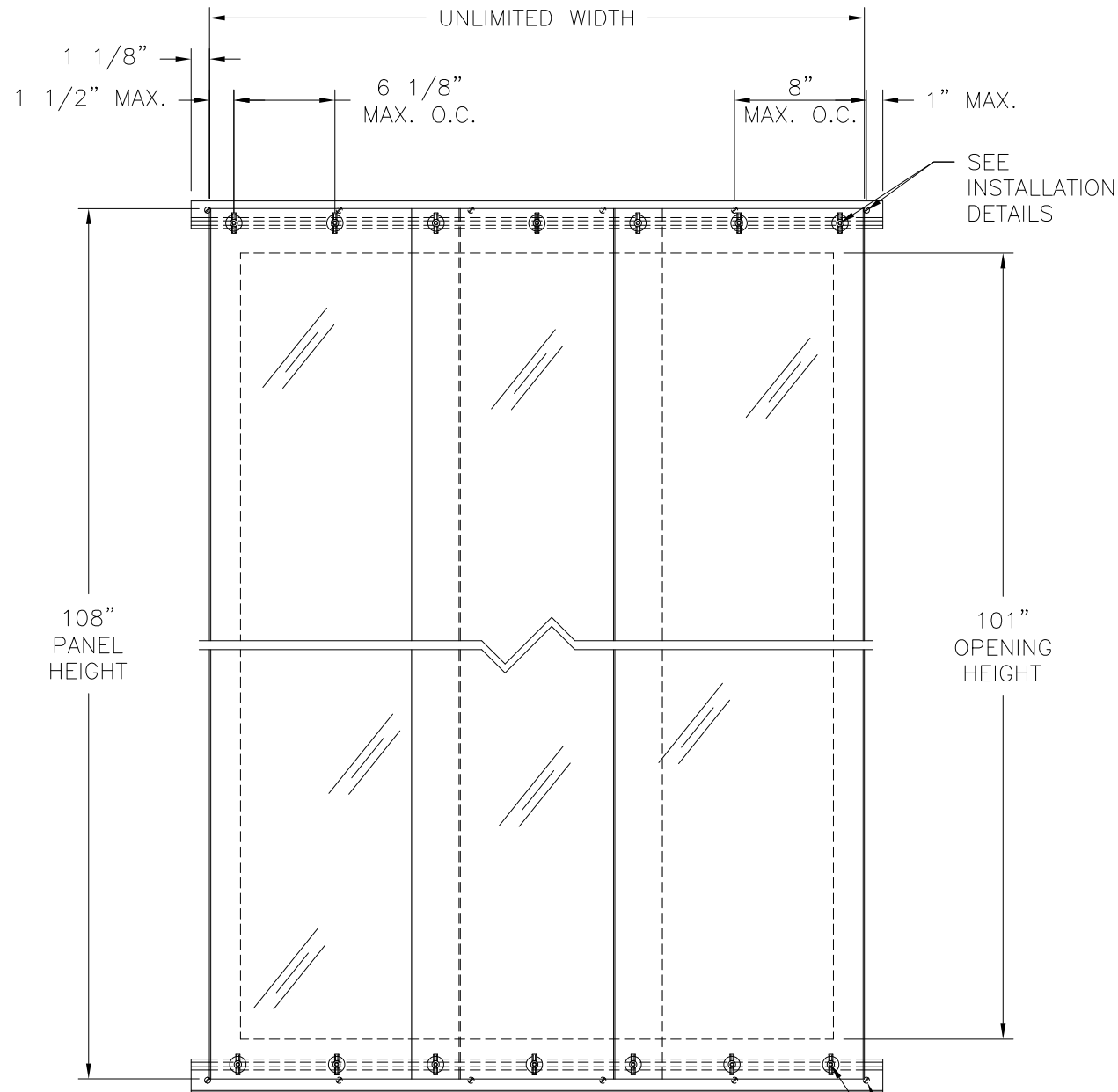


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.



STORM SHUTTER TYPE B
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±55PSF	LARGE AND SMALL MISSILE IMPACT

SEE
INSTALLATION
DETAILS

- NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
 2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
 3. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
 4. PANEL MATERIAL: CORRUGATED POLYCARBONATE.
 5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
 6. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 7. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 8. FOR ANCHORING INTO BRICK VENEER USE PANELMATE TVAS WITH 2" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 9. ALL FASTENERS TO BE CORROSION RESISTANT.
 10. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - 10.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 10.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 10.3. MASONRY: GROUT FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 11. SEPARATION FROM GLASS MUST BE 9 1/8" MINIMUM.
 12. BUILD UP PROFILES MAY BE COMBINED TO ACHIEVE DESIRED SEPARATION FROM OPENING.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION AND NOTES
2 – 9	INSTALLATION DETAILS
10	COMPONENTS

VUSAFE INDUSTRIES, LLC.
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE B
IMPACT
ELEVATION AND NOTES

DRAWN:
R.L.

DWG NO.
08-01261

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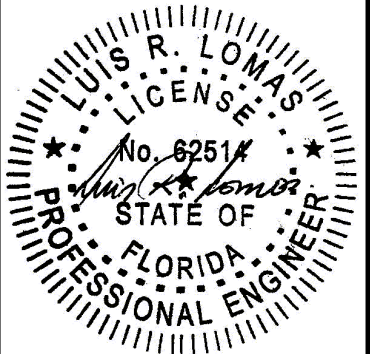
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NTS

DATE
06/20/11

SHEET
1 OF 10

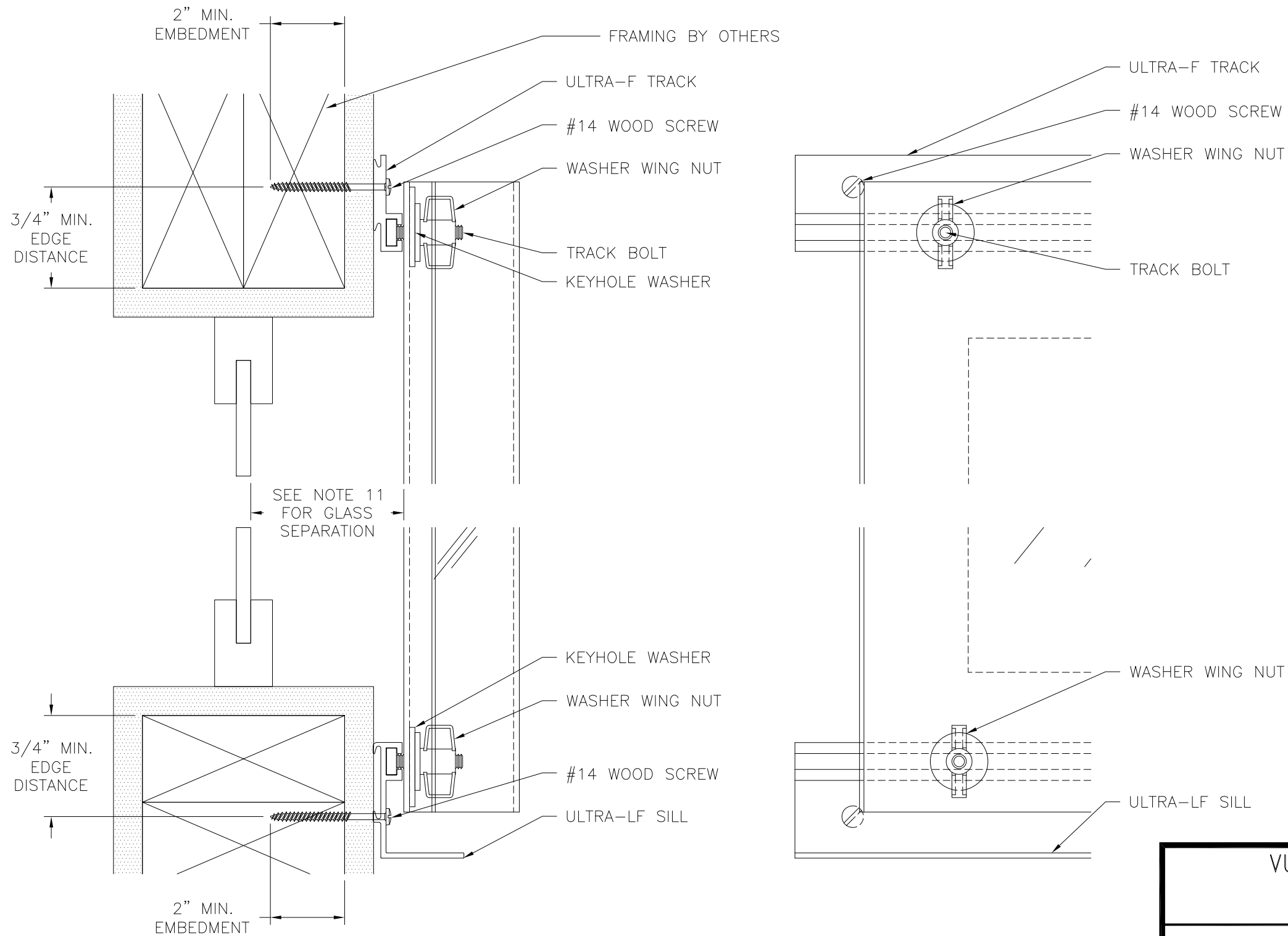
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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Luis R. Lomas P.E.
FL No.: 62514

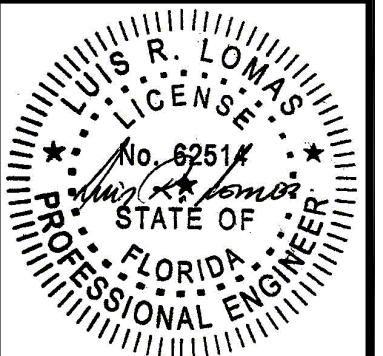
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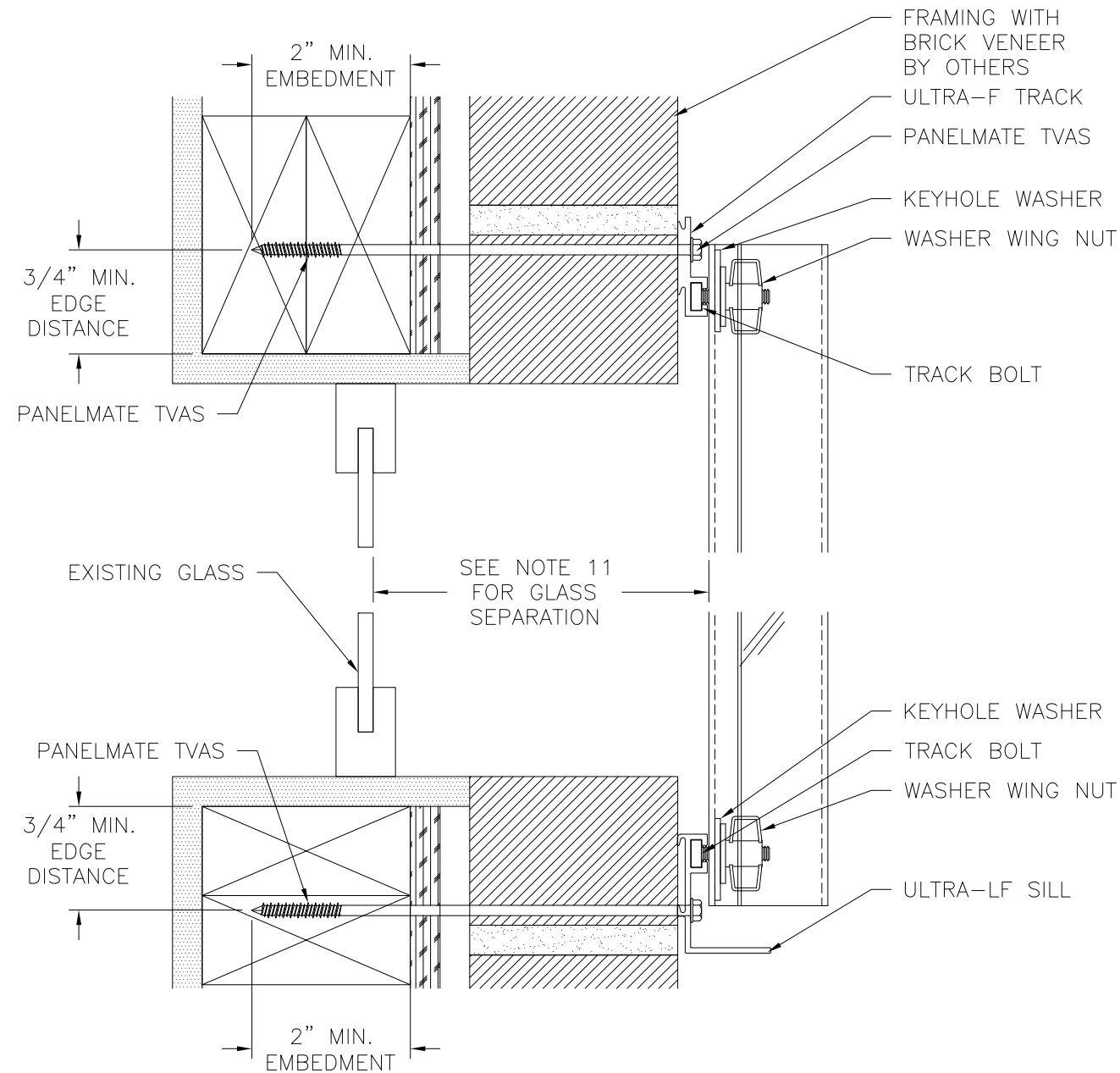
VERTICAL CROSS SECTION
WOOD FRAMING INSTALLATION
PANEL TO OVERLAP OPENING
2 1/4" MIN. AT HEAD AND SILL

VUSAFE INDUSTRIES, LLC. 350 KIDDS HILL ROAD HYANNIS, MA 02601		
STORM SHUTTER TYPE B IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01261	REV D
SCALE NTS	DATE 06/20/11	SHEET 2 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

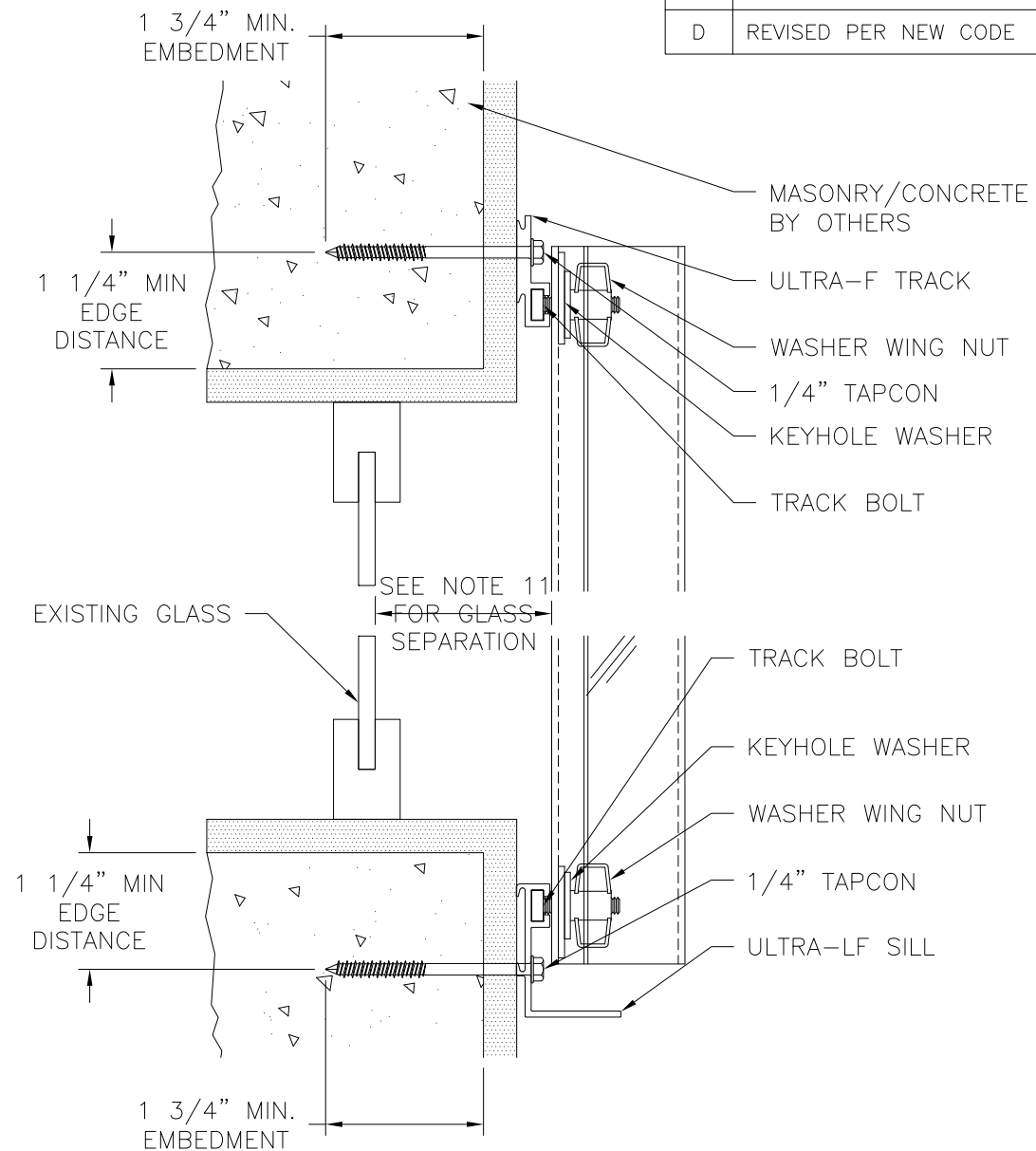
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Luis R. Lomas P.E.
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VERTICAL CROSS SECTION
BRICK VENEER INSTALLATION
PANEL TO OVERLAP OPENING
2 1/4" MIN. AT HEAD AND SILL

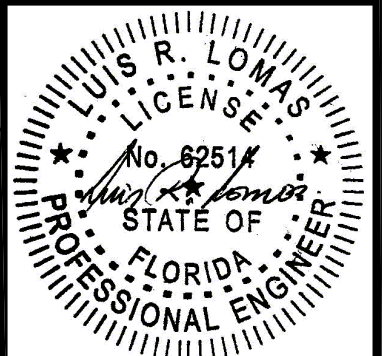


VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
PANEL TO OVERLAP OPENING
2 1/4" MIN. AT HEAD AND SILL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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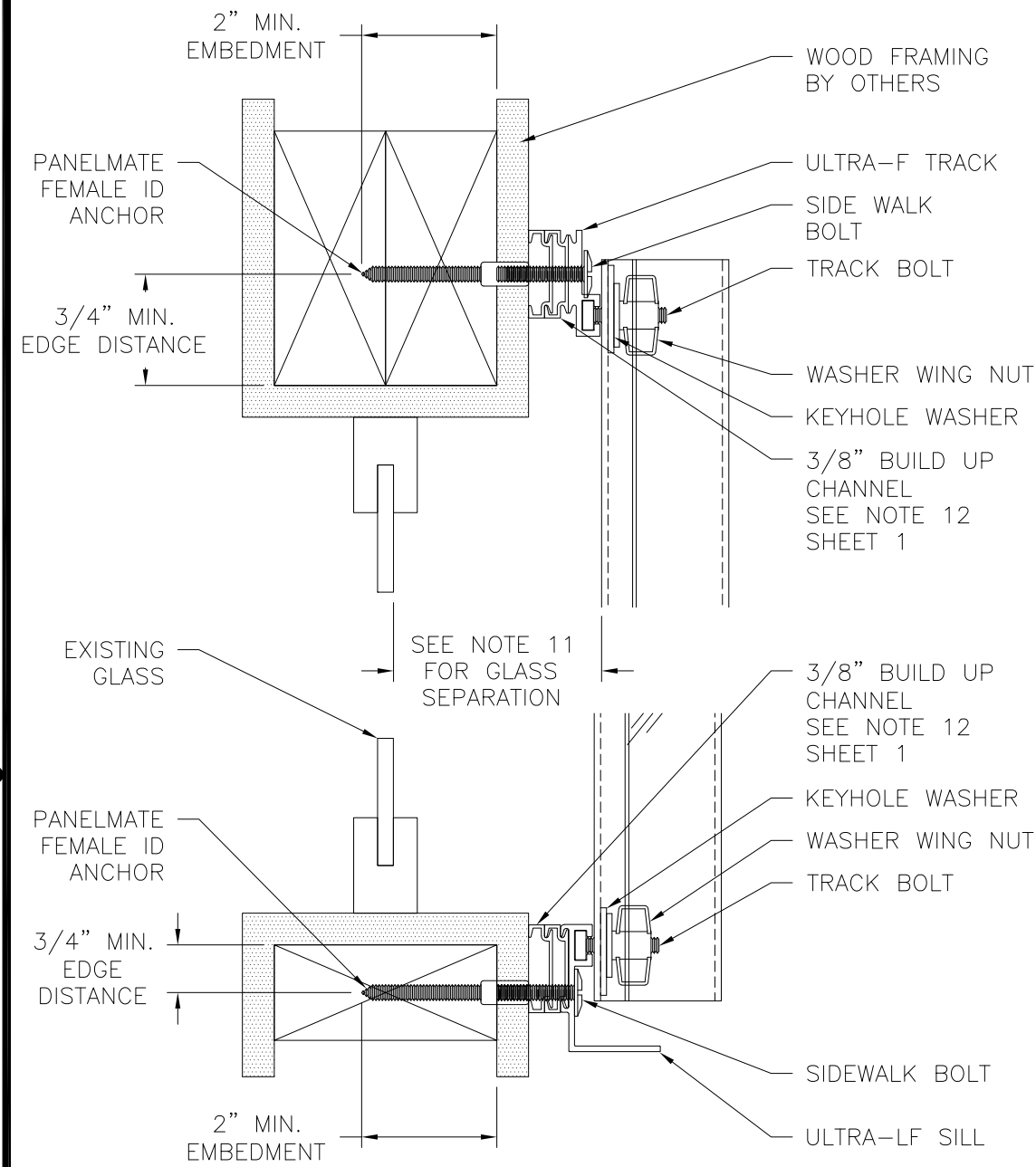
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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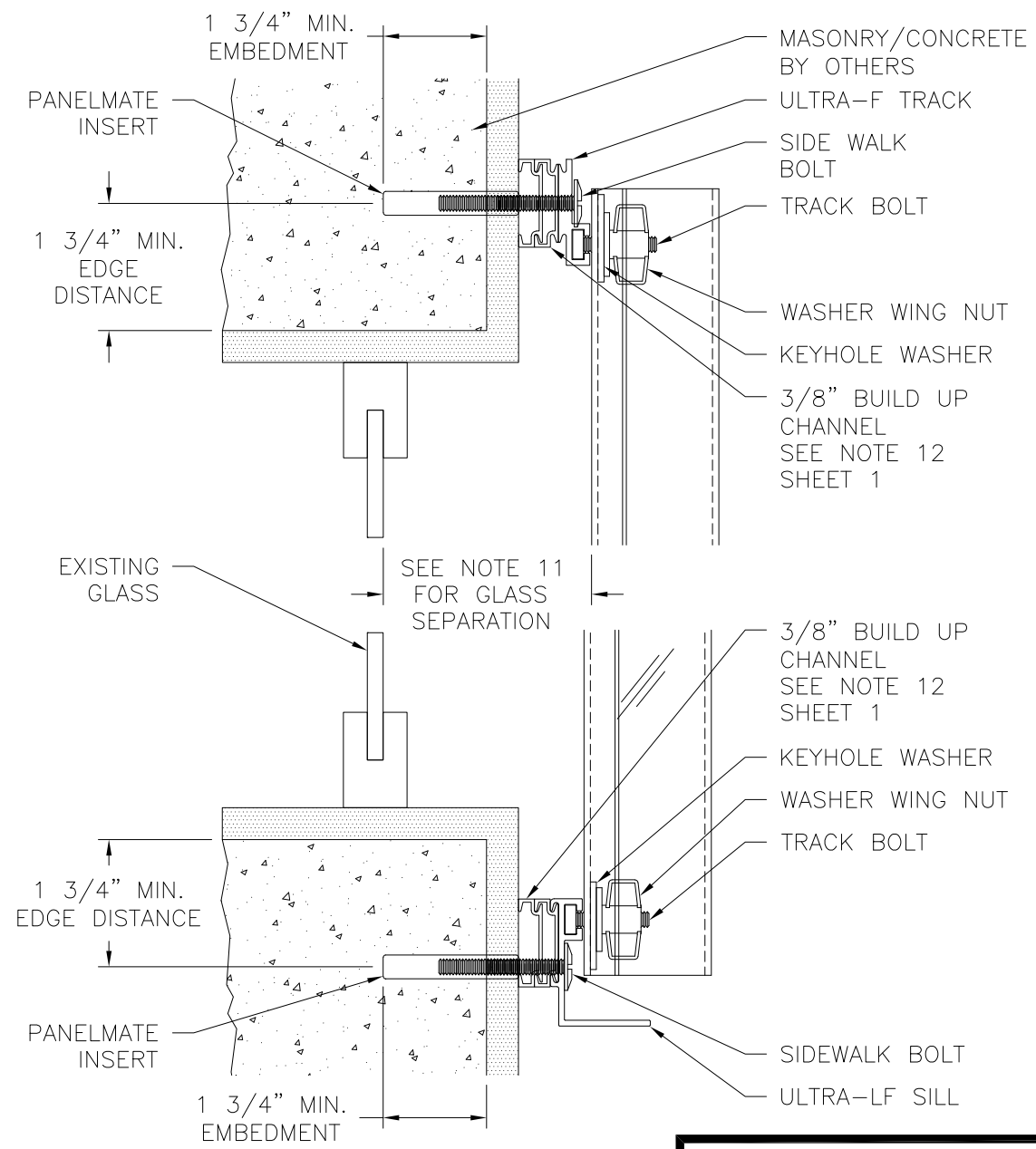


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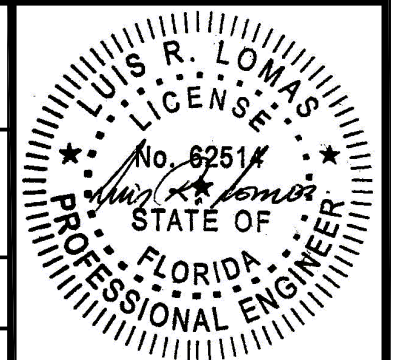
VERTICAL CROSS SECTION
WOOD INSTALLATION
WITH (2) 3/8" BUILD UP



VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
WITH (2) 3/8" BUILD UP

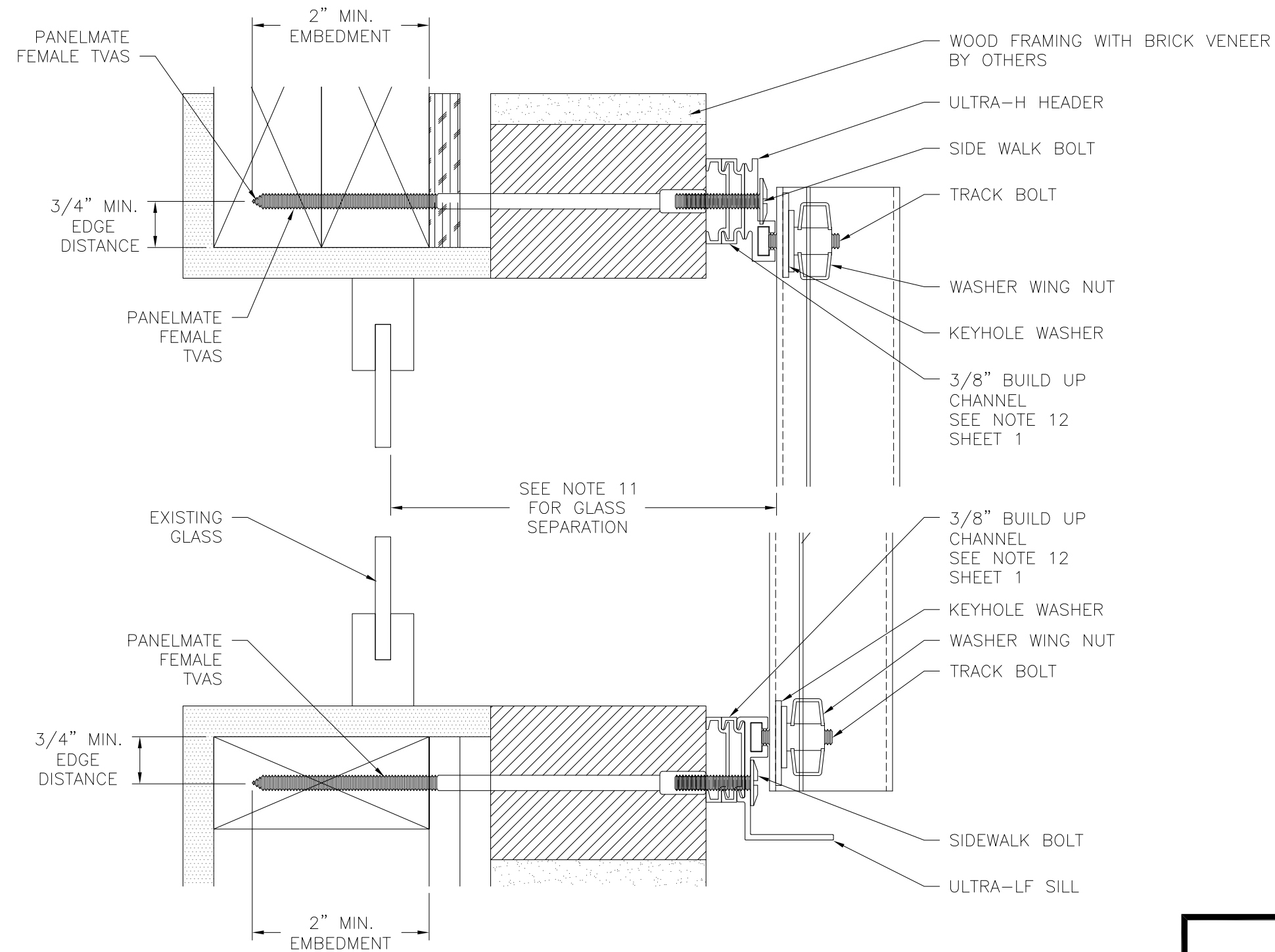
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350 KIDDS HILL ROAD HYANNIS, MA 02601		
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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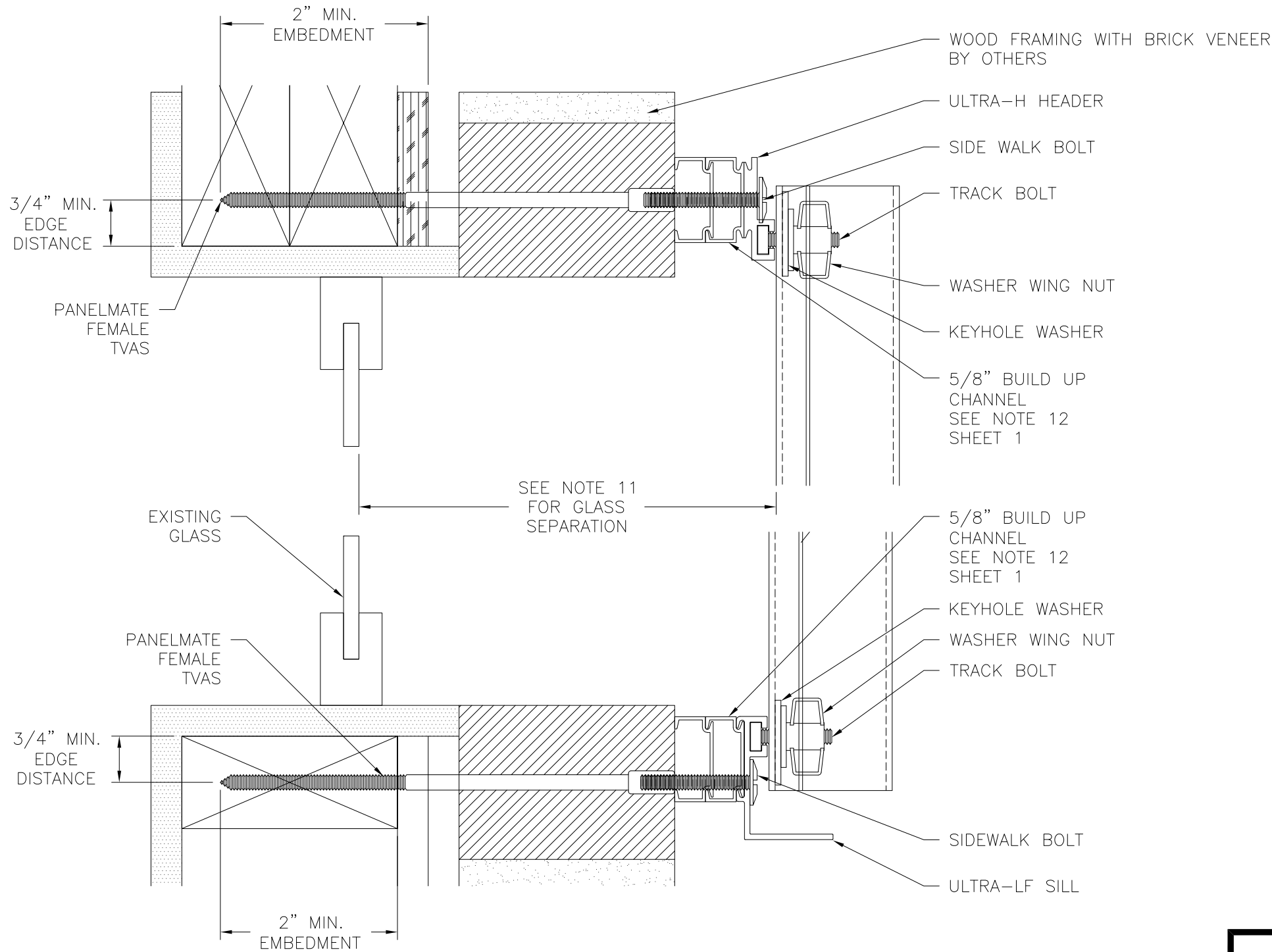


VERTICAL CROSS SECTION
BRICK VENEER INSTALLATION
WITH (2) 3/8" BUILD UP

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VUSAFE INDUSTRIES, LLC. 350 KIDDS HILL ROAD HYANNIS, MA 02601		
STORM SHUTTER TYPE B IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01261	REV D
SCALE NTS	DATE 06/20/11	SHEET 5 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
BRICK VENEER INSTALLATION
WITH (2) 5/8" BUILD UP

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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VUSAFE INDUSTRIES, LLC.
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE B
IMPACT
INSTALLATION DETAILS

DRAWN:
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DWG NO.
08-01261

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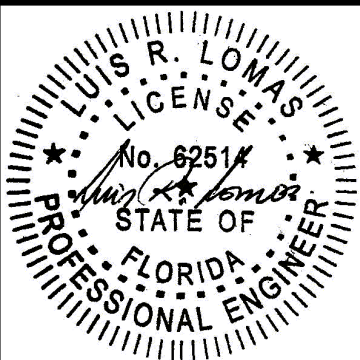
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06/20/11

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7 OF 10

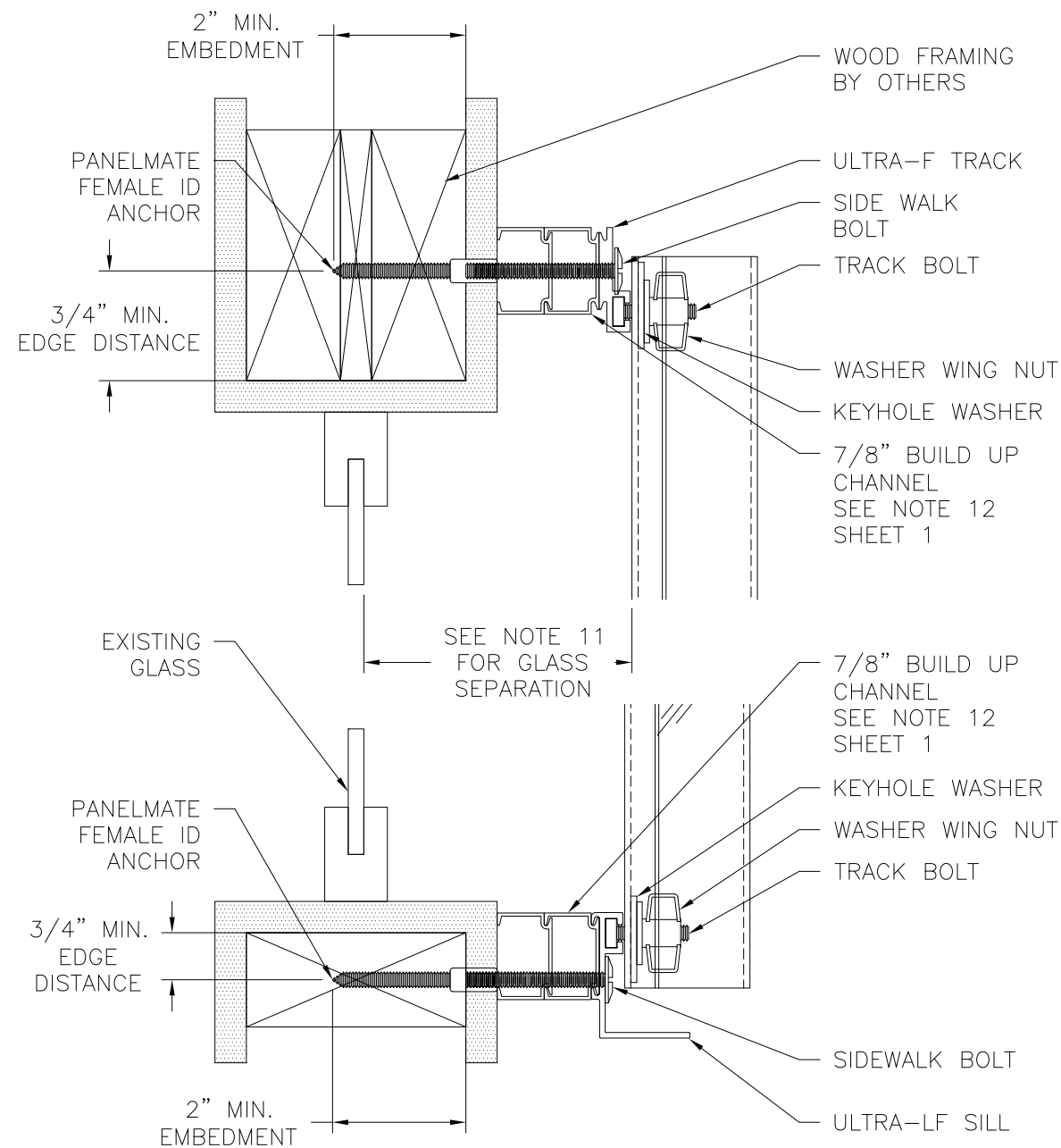
L. ROBERTO LOMAS P.E.
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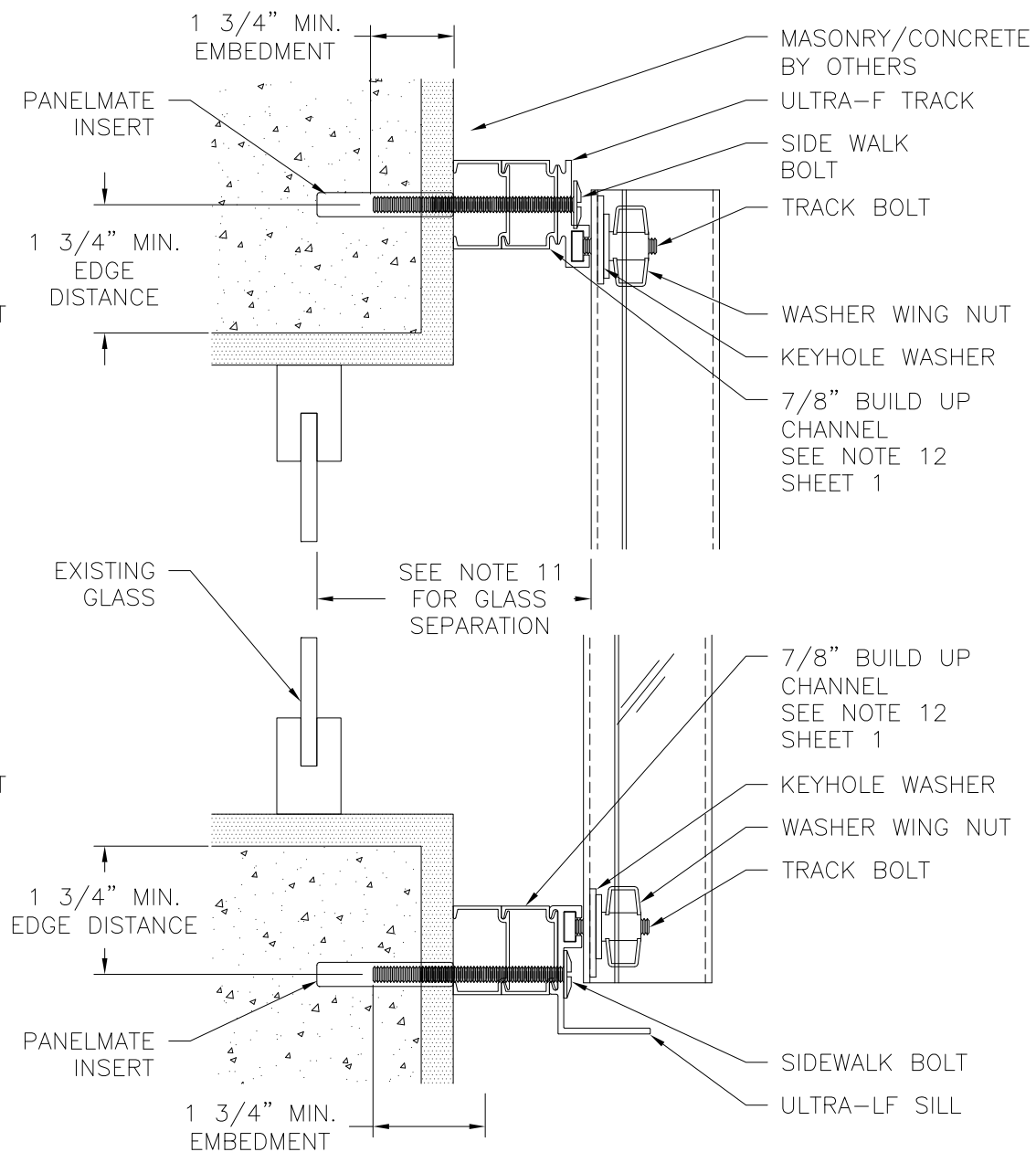


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VERTICAL CROSS SECTION
WOOD INSTALLATION
WITH (2) 7/8" BUILD UP



VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
WITH (2) 7/8" BUILD UP

VUSAFE INDUSTRIES, LLC.

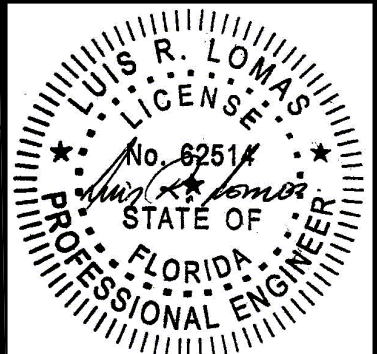
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE B
IMPACT
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01261	REV D
SCALE NTS	DATE 06/20/11	SHEET 8 OF 10

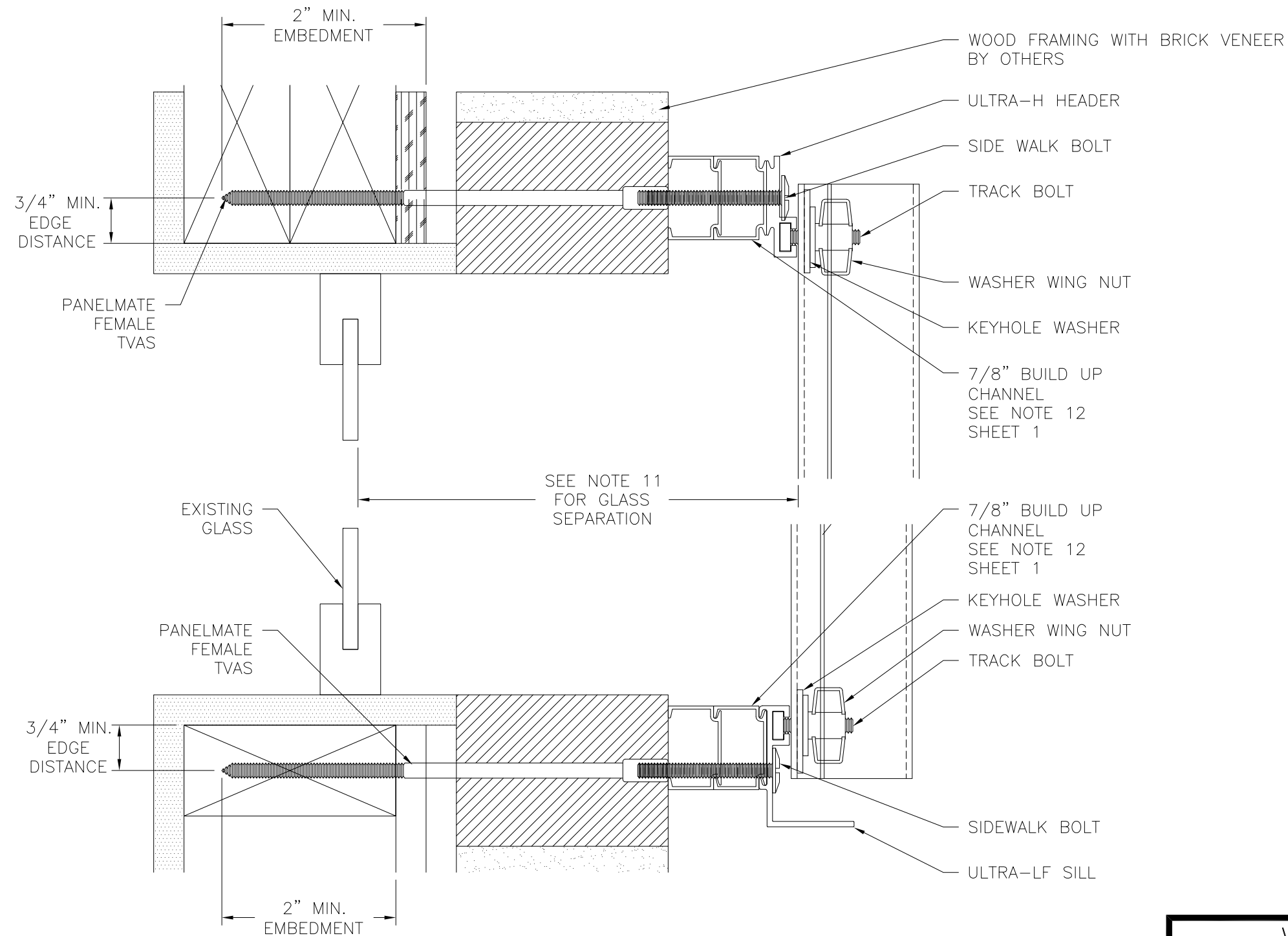
L. ROBERTO LOMAS P.E.
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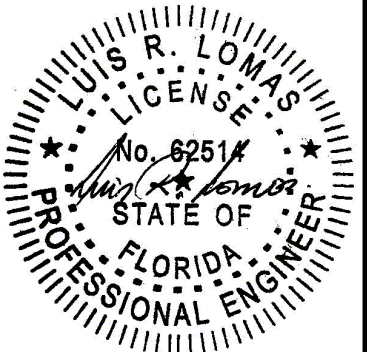
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REV	DESCRIPTION	DATE	APPROVED
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VERTICAL CROSS SECTION
BRICK VENEER INSTALLATION
WITH (2) 7/8" BUILD UP

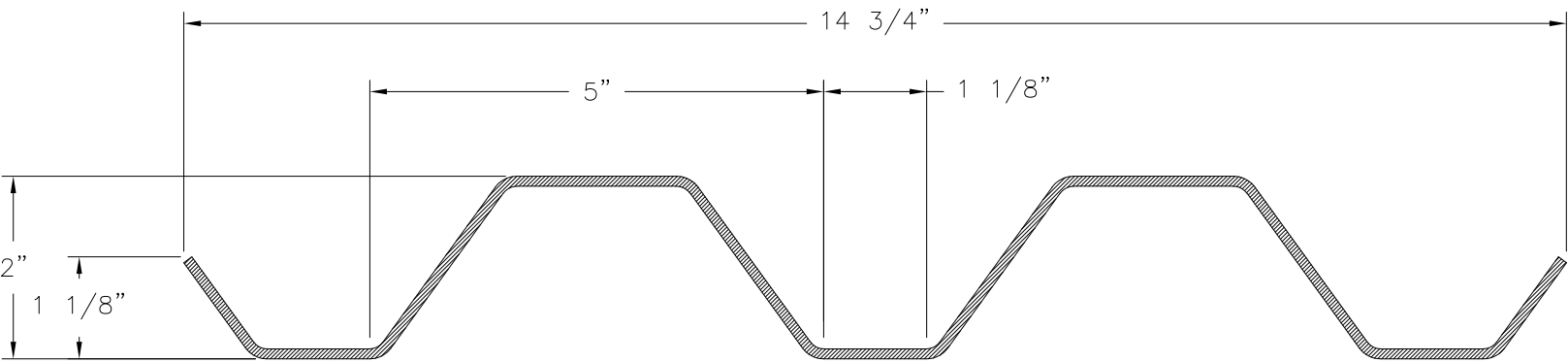
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VUSAFE INDUSTRIES, LLC. 350 KIDDS HILL ROAD HYANNIS, MA 02601		
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SCALE NTS	DATE 06/20/11	SHEET 9 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

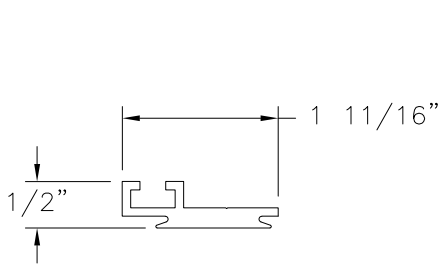


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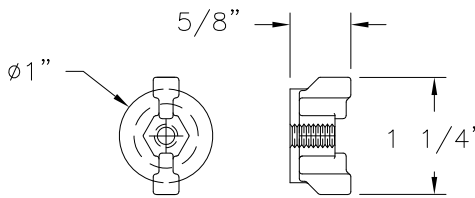
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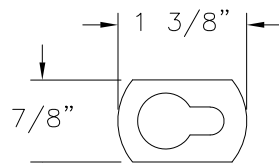
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SYNTHETIC THERMOPLASTIC POLYMERMAKROLONRESIN
FY: 9.43KSI



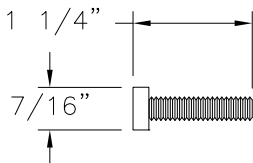
ULTRA-F TRACK
ALUMINUM 6063-T6



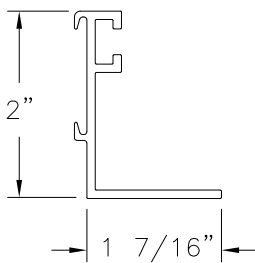
WASHER WING NUT
STAINLESS STEEL



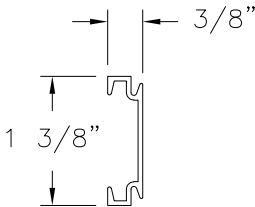
KEYHOLE WASHER
POLYCARBONATE .093" THICK



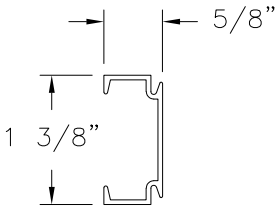
TRACK BOLT
STAINLESS STEEL



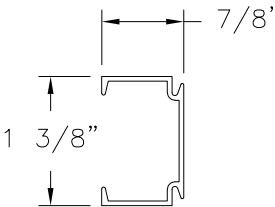
ULTRA-LF SILL
ALUMINUM 6063-T6 .090" THICK



3/8" BUILD UP CHANNEL
ALUMINUM 6063-T6
.055" THICK



5/8" BUILD UP CHANNEL
ALUMINUM 6063-T6
.055" THICK



7/8" BUILD UP CHANNEL
ALUMINUM 6063-T6
.055" THICK

SIGNED: 08/29/2024

VUSAFE INDUSTRIES, LLC.
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE B
IMPACT
COMPONENTS

DRAWN:
R.L.

DWG NO.
08-01261

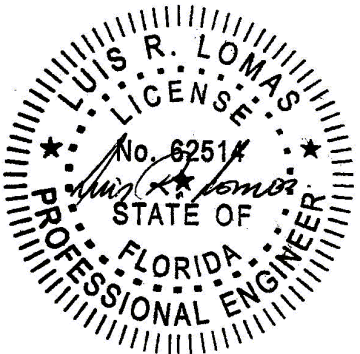
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SHEET
10 OF 10

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