

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/11/26	R.L.

- NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
 2. WOOD FRAMING, METAL STRUCTURE 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. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
 4. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
 5. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
 6. FRAME MATERIAL: WOOD WITH G=.46 MINIMUM SPECIFIC GRAVITY, OR COMPOSITE, OR FRAMESAVER, OR FUSION FRAME.
DOOR SKIN MATERIAL: STEEL .033" THICK (MINIMUM)
SIDELITE SKIN MATERIAL: STEEL .022" THICK (MINIMUM)
 7. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 10 FOR GLASS DETAILS.
 8. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
 9. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".

10. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
13. ALL FASTENERS TO BE CORROSION RESISTANT.
14. 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:
 - 14.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 14.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - 14.3. MASONRY – GROUT FILLED STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 14.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM
15. DOOR CONSTRUCTION MAYBE CONTINUOUS HEAD FRAME AND CONTINUOUS THRESHOLD OR BOX CONSTRUCTION.

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PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED SINGLE DOOR
W/SIDELITES – IMPACT
NOTES

DRAWN:
J.L.

DWG NO.
08-02019

REV
K

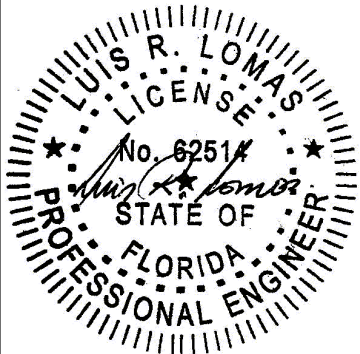
SCALE NTS

DATE 05/10/13

SHEET 1 OF 14

L. ROBERTO LOMAS P.E.
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SIGNED: 09/11/2026



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

25 3/8"

FRAME

WIDTH

37 9/16"

FRAME

WIDTH

25 3/8"

FRAME

WIDTH

97 19/32"

FRAME

HEIGHT

FIXED

ACTIVE

FIXED

3/8" MULLION

MINIMUM

SEE NOTES

1 AND 2

THIS SHEET

AND MULLION DETAIL

SHEET 11

SINGLE DOOR W/ STD SIDELITES

EXTERIOR VIEW

21 5/8"

FRAME

WIDTH

37 9/16"

FRAME

WIDTH

21 5/8"

FRAME

WIDTH

97 19/32"

FRAME

HEIGHT

FIXED

ACTIVE

FIXED

3/8" MULLION

MINIMUM

SEE NOTES

1 AND 2

THIS SHEET

AND MULLION DETAIL

SHEET 11

SINGLE DOOR W/ DIRECT SET SIDELITES

EXTERIOR VIEW

ACTIVE

FIXED

SINGLE DOOR

W/ STD SIDELITE

EXTERIOR VIEW

FIXED

ACTIVE

SINGLE DOOR

W/ STD SIDELITE

EXTERIOR VIEW

FIXED

ACTIVE

SINGLE DOOR

W/ DIRECT SET SIDELITE

EXTERIOR VIEW

ACTIVE

FIXED

SINGLE DOOR

W/ DIRECT SET SIDELITE

EXTERIOR VIEW

REVISIONS

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DESIGN PRESSURE RATING	IMPACT RATING
±50,0PSF	LARGE & SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

WITH PANOLock MULTI-POINT

DESIGN PRESSURE RATING	IMPACT RATING
±50,0PSF	LARGE & SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

NOTES:

1. MAXIMUM VERTICAL MULLION BUILD UP 7"

2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED.

3. DOOR PANEL SIZE: 35 3/4" X 94 15/16"

4. SIDELITE PANEL SIZE: 23 7/8" X 95 1/8"

5. DOOR PANEL D.L.O.: 20 3/8" X 78 1/2"

6. SIDELITE PANEL D.L.O.: 12 3/8" X 78 3/8"

7. DIRECT SET D.L.O.: 18 5/8" X 93 25/32"

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STEEL OUTSWING GLAZED SINGLE DOOR

W/SIDELITES – IMPACT

ELEVATION AND APPROVED CONFIGURATIONS

DRAWN: J.L.

DWG NO. 08-02019

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SHEET 2 OF 14

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L. R. LOMAS

FLORIDA

PROFESSIONAL ENGINEER

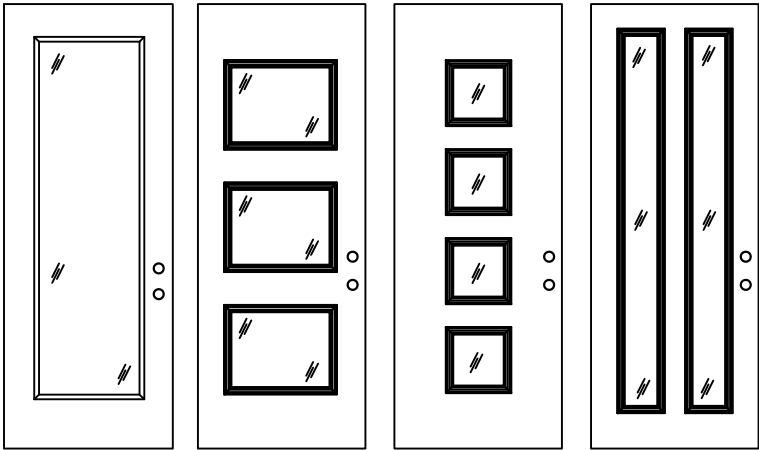
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APPROVED LITE CONFIGURATIONS



FULL LITE

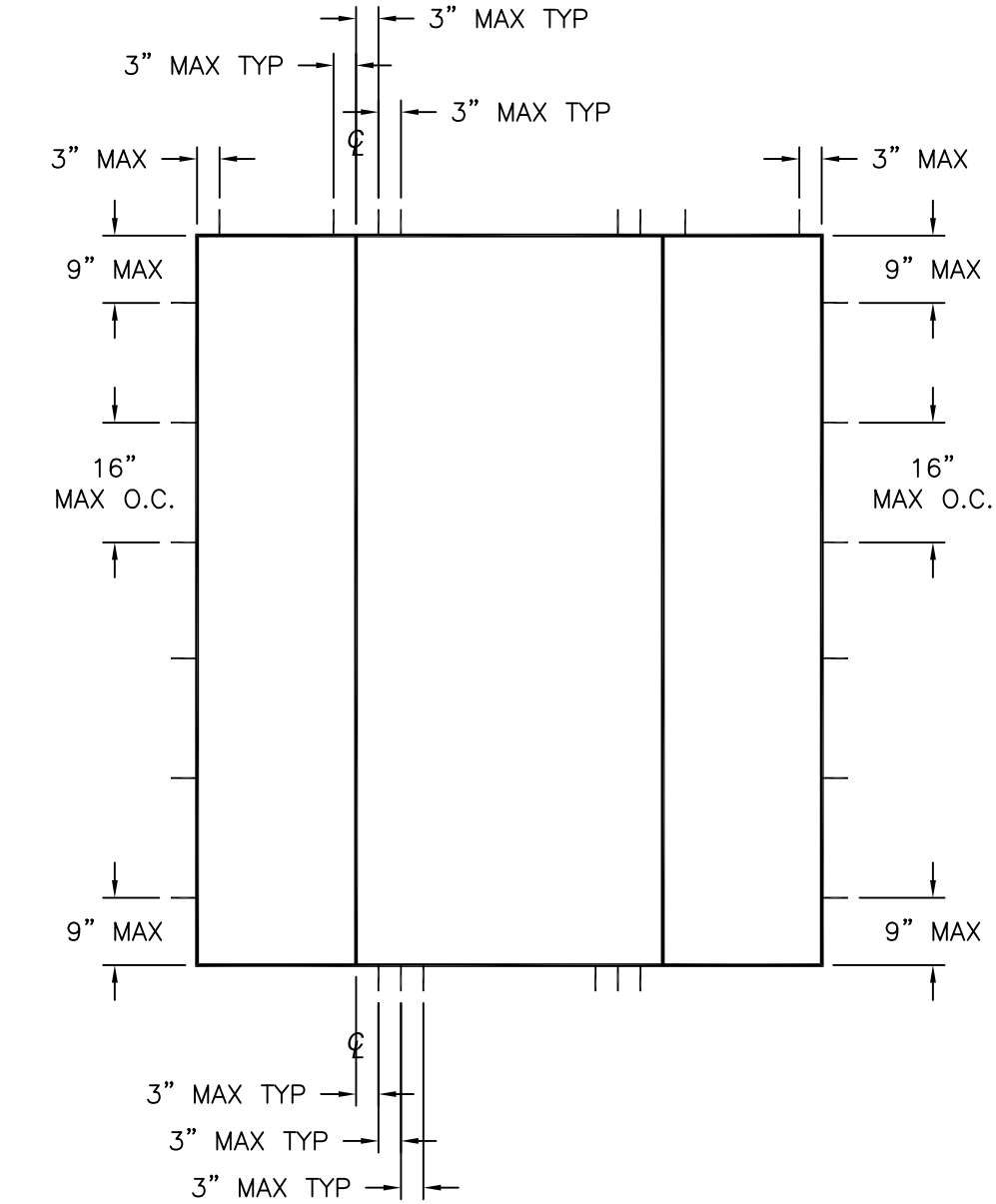
3 LITE

4 LITE

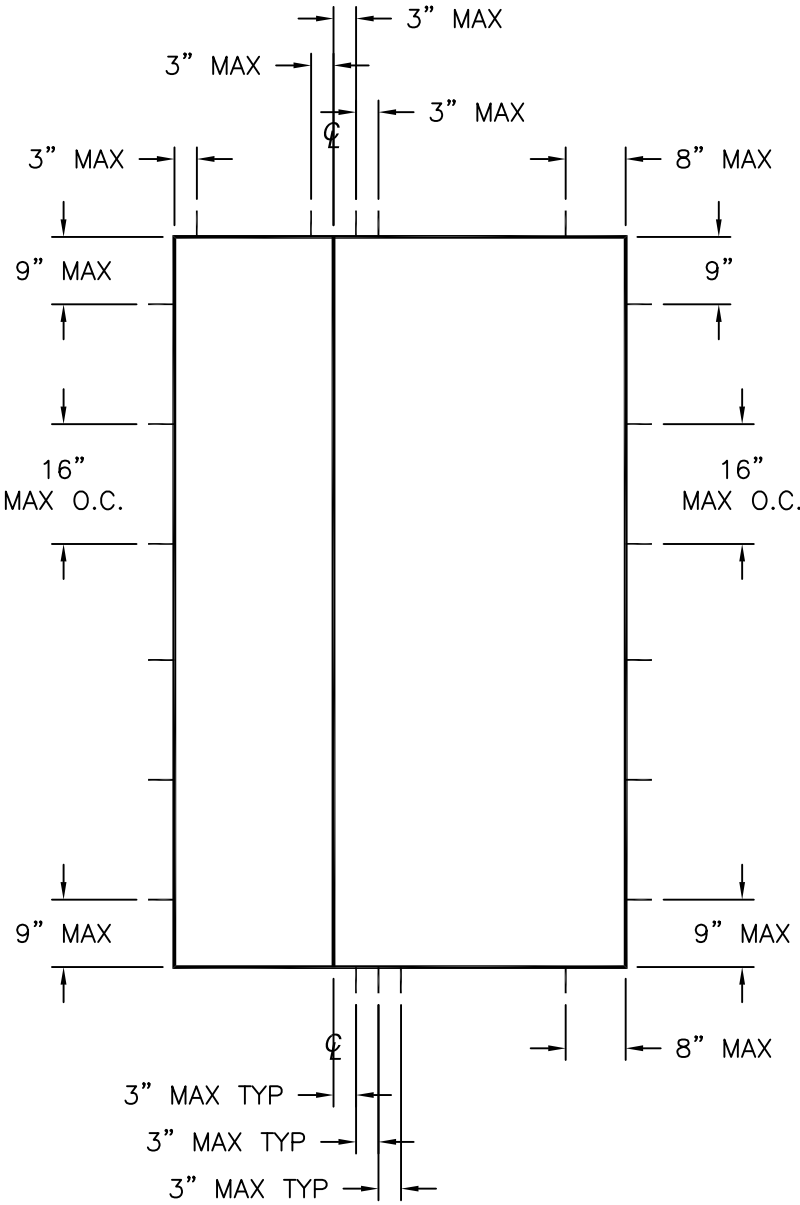
2 LITE

LITE CONFIGURATIONS SHOWN ARE FOR REFERENCE ONLY.
MULTIPLE LITE CONFIGURATIONS ARE APPROVED AS LONG AS
LITE SIZE DOES NOT EXCEED 11.1 FT²

Anchors and anchor connectors corrosion resistance chart		
Exposure	Distance from coastal shoreline	
	0' up to 300'	>300' up to 3000'
Exterior - partially sheltered	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Exterior - open exposed	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-vented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-unvented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S



SINGLE IMPACT - COMPOSITE/WOOD FRAME



SINGLE W/SIDELITE

HARDWARE SCHEDULE	
A.	F-SERIES & FC-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE
B.	B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
C.	F-SERIES & FC-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
D.	RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE)
E.	MULTI-POINT HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE)
F.	PANOLOCK MULTI-POINT LOCK ASSEMBLY (ALTERNATE)
G.	(3) 4" X 4" BALL BEARING HINGES BY PENROD
H.	(3) 4" X 4" SPRING BOMMER HINGES BY PENROD (ALTERNATE)

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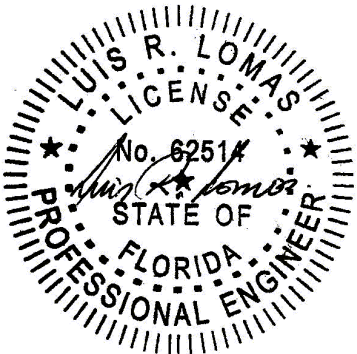
STEEL OUTSWING GLAZED SINGLE DOOR
W/SIDELITES – IMPACT
ANCHORING LAYOUTS

DRAWN: J.L. DWG NO. 08-02019 REV K

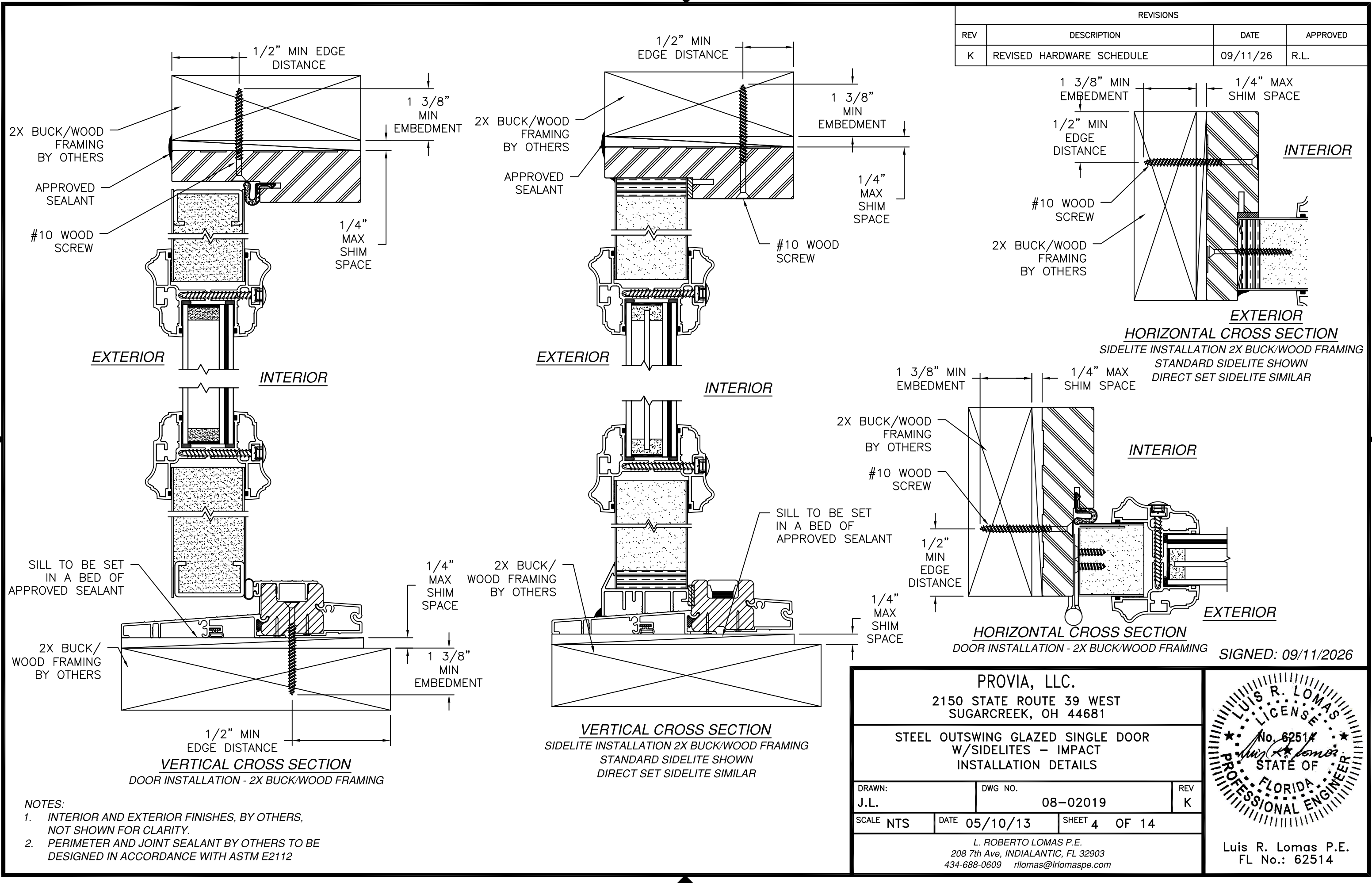
SCALE NTS DATE 05/10/13 SHEET 3 OF 14

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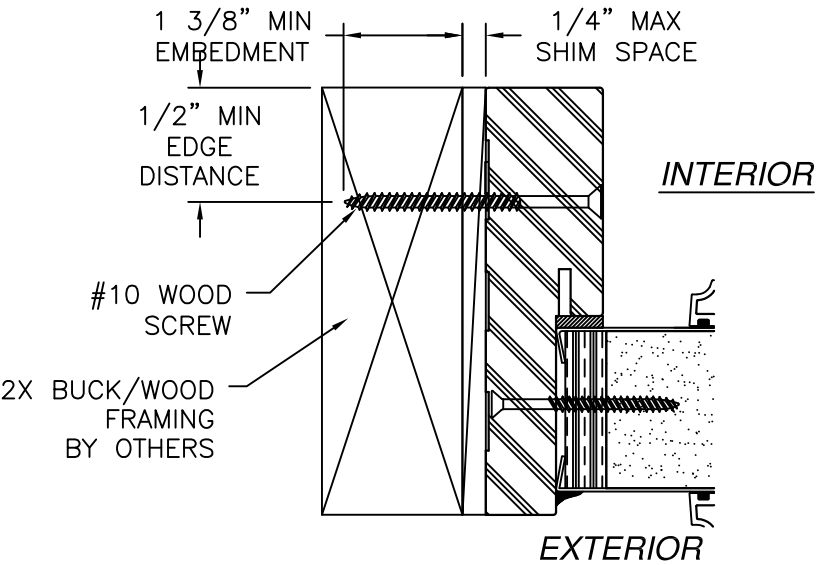
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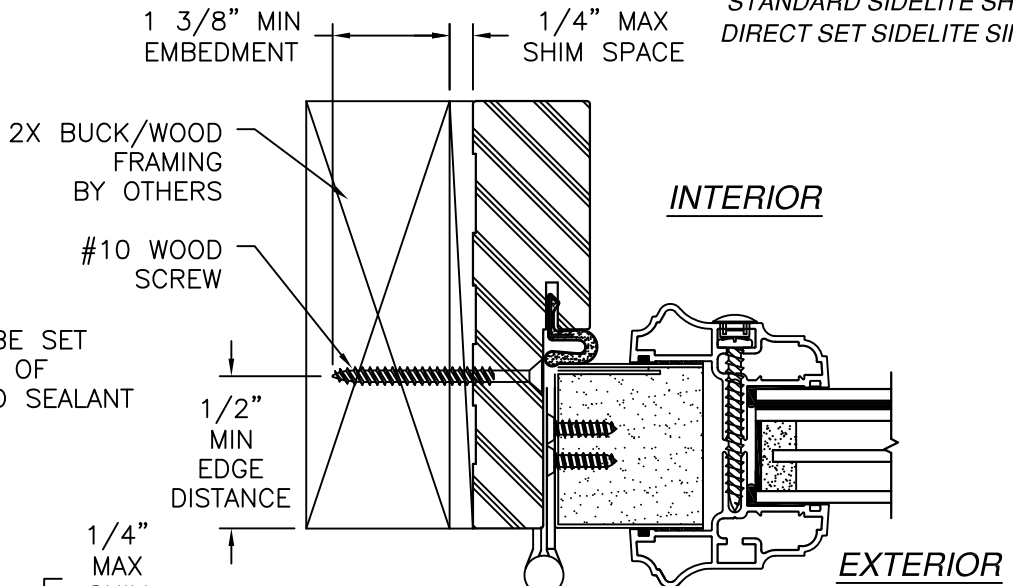
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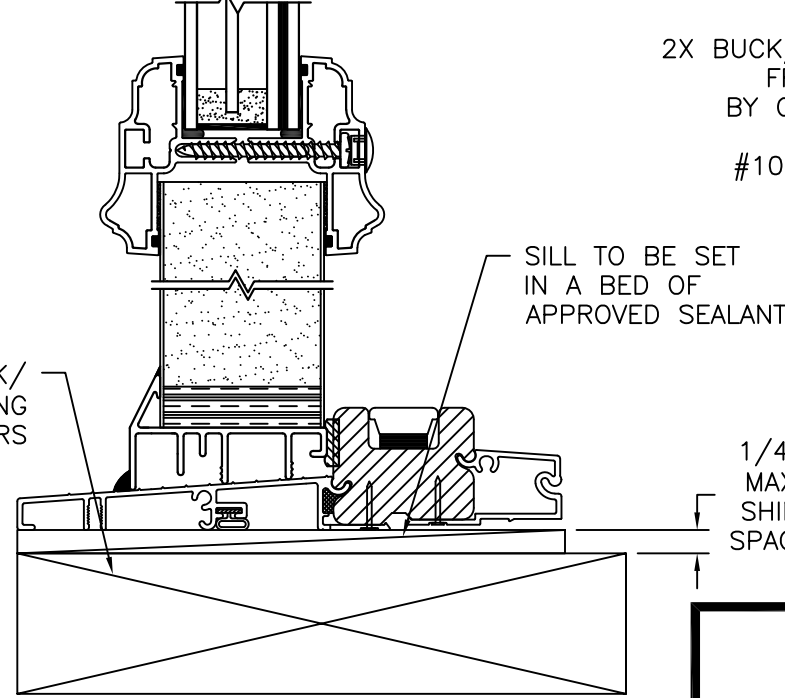
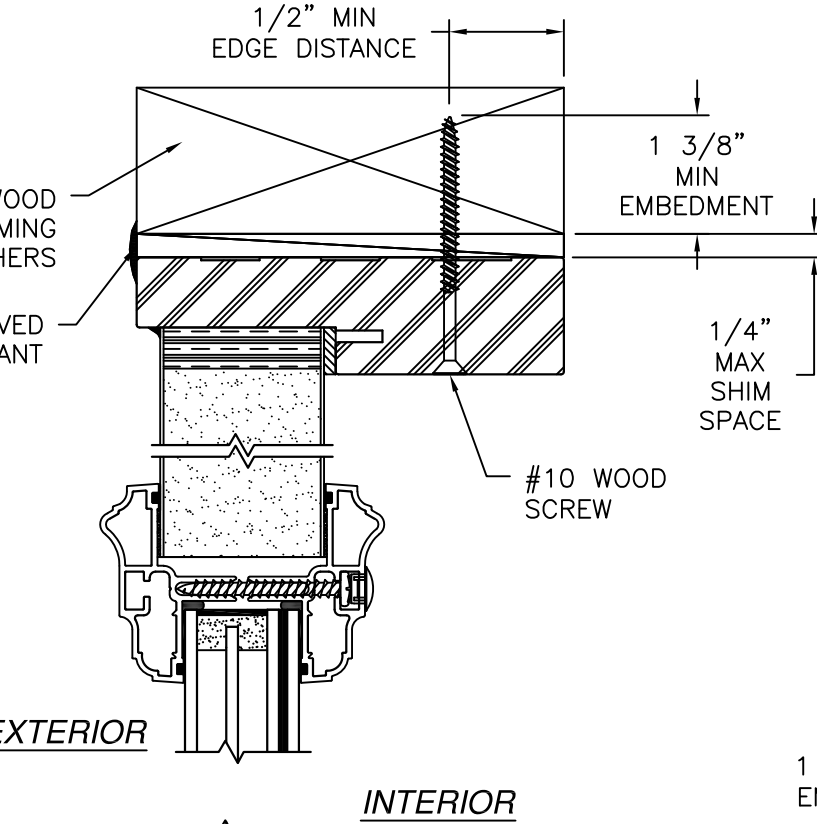
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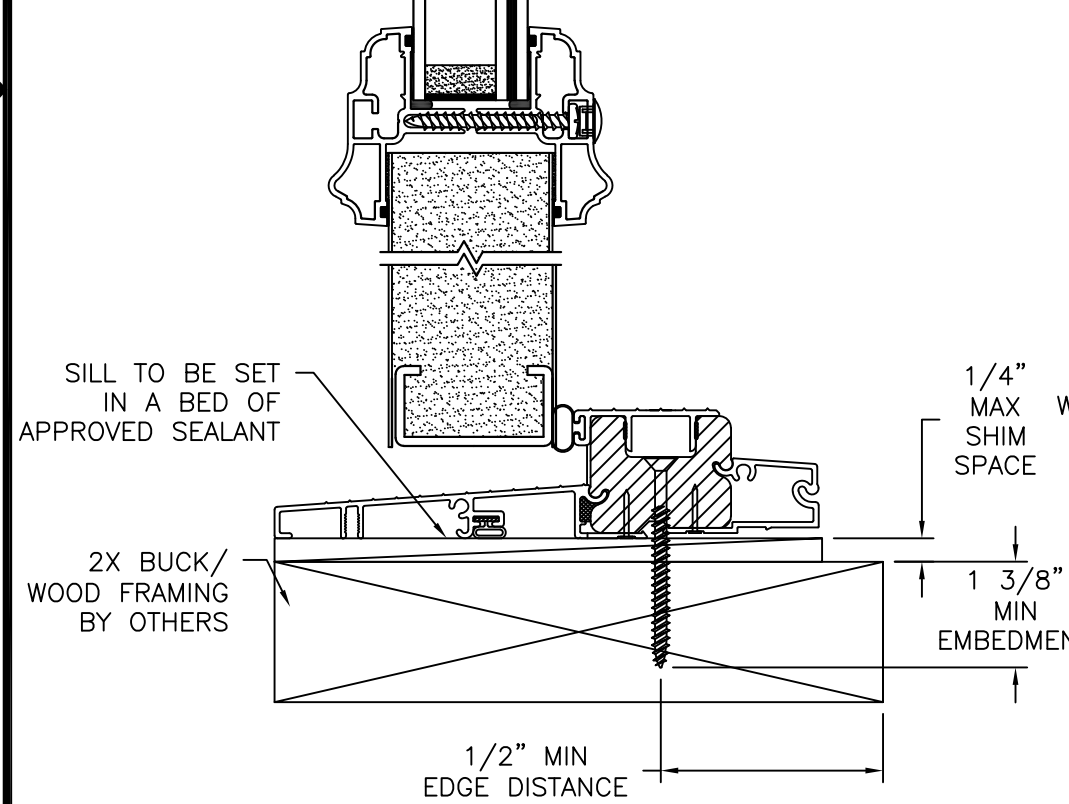
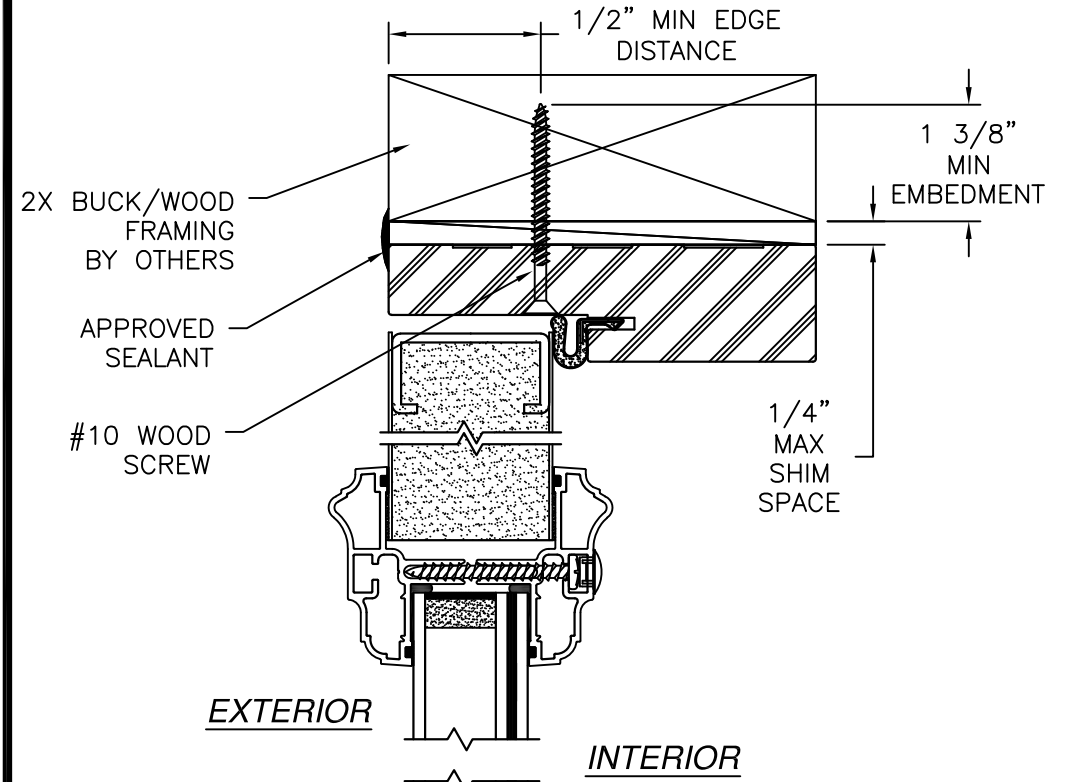
HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



HORIZONTAL CROSS SECTION
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING
SIGNED: 09/11/2026



VERTICAL CROSS SECTION
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



VERTICAL CROSS SECTION
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING

- NOTES:
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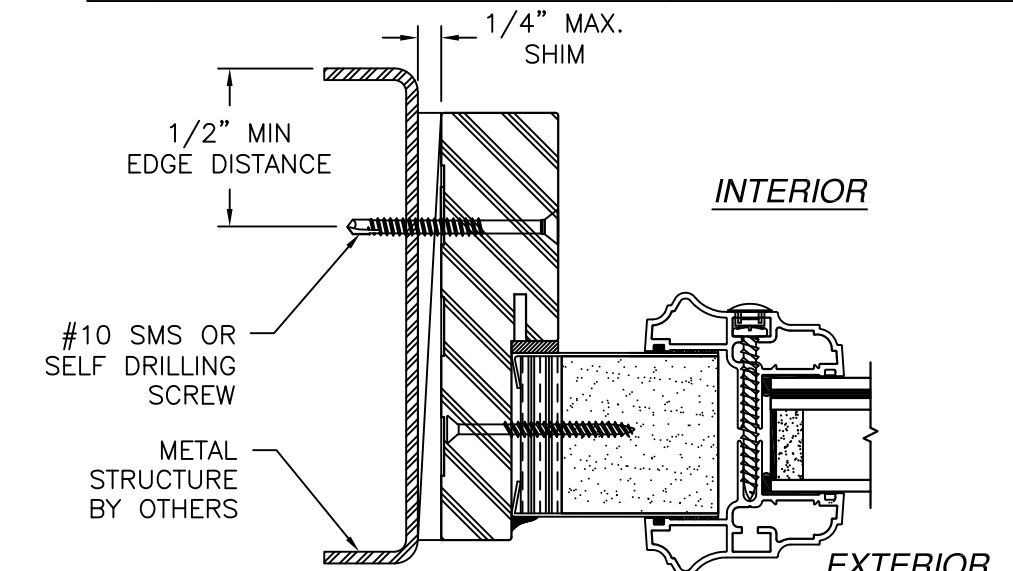
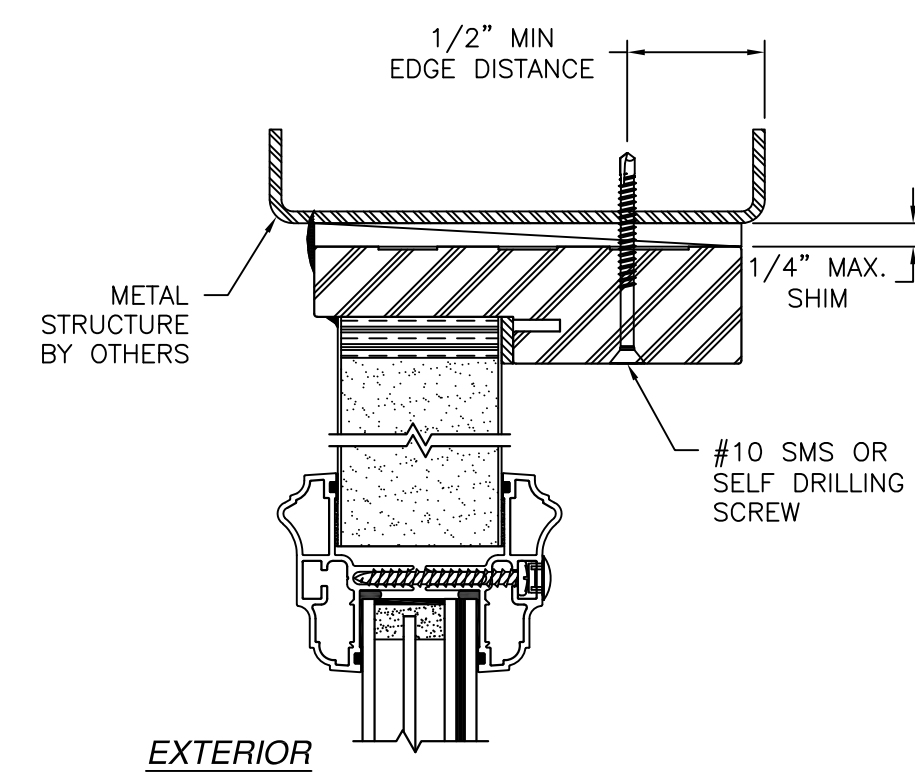
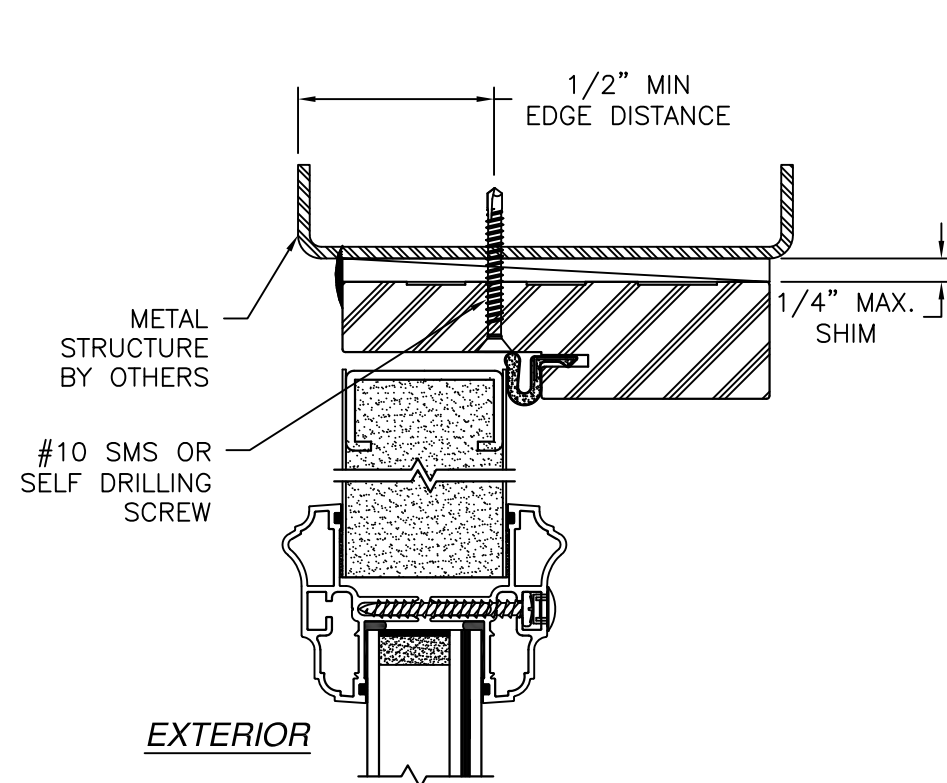
**STEEL OUTSWING GLAZED SINGLE DOOR
W/SIDELITES - IMPACT
INSTALLATION DETAILS**

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SCALE NTS	DATE 05/10/13	SHEET 4 OF 14

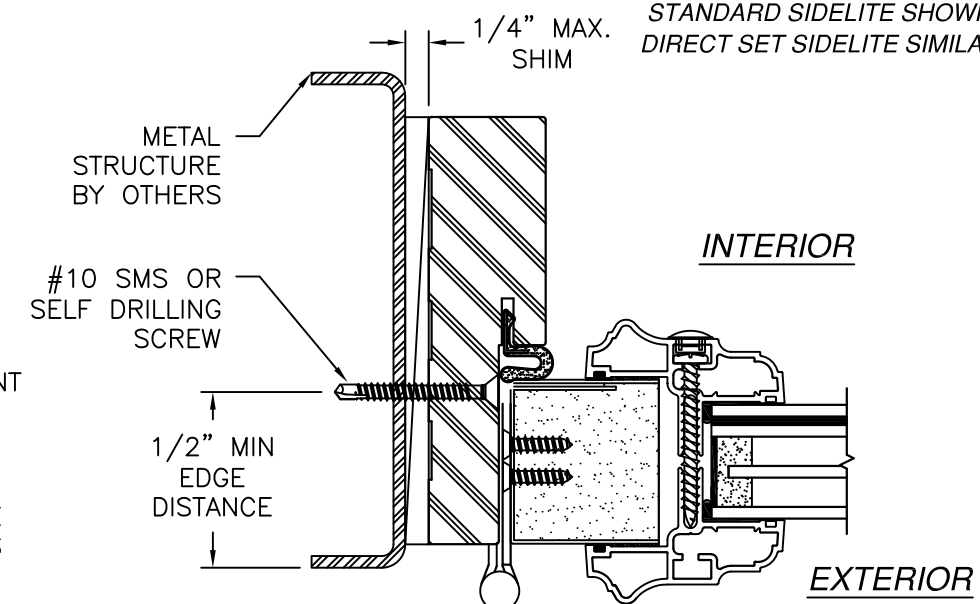
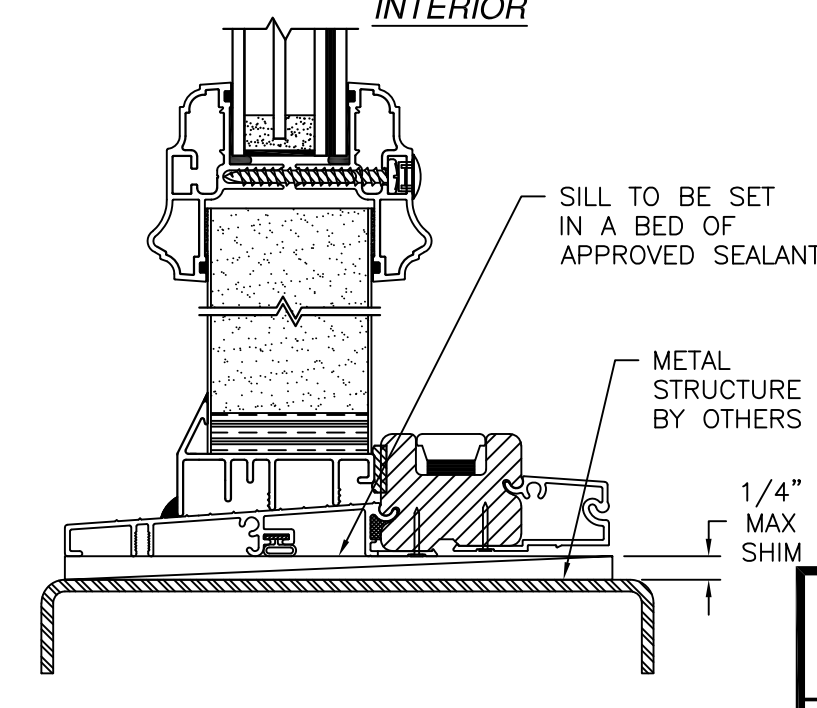
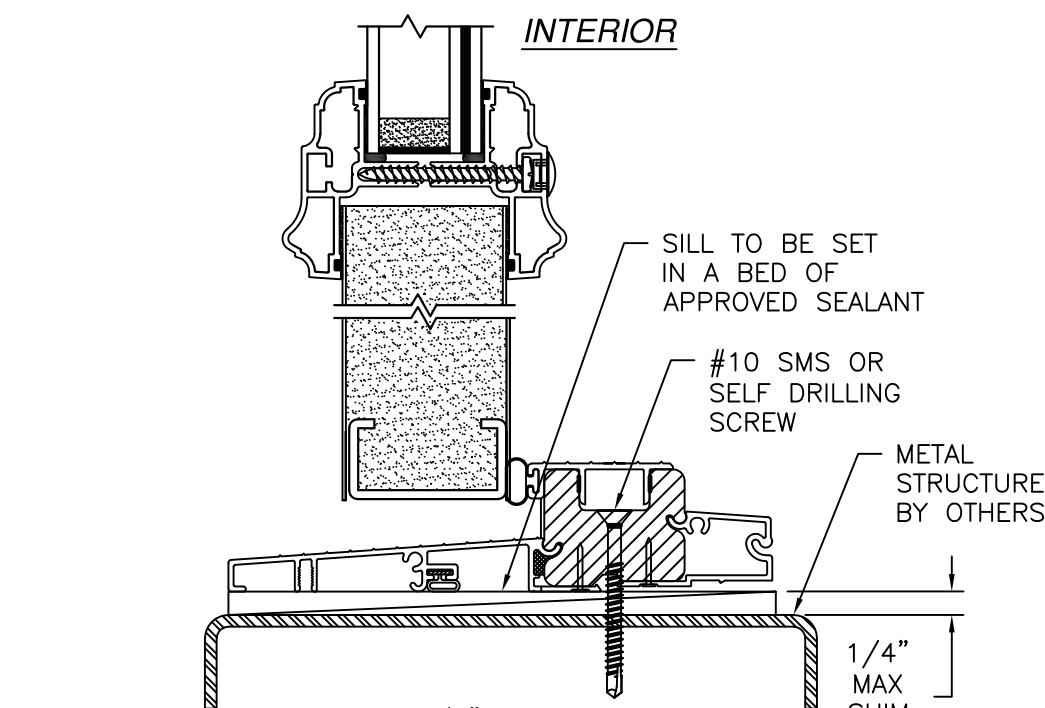
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HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION METAL STRUCTURE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



HORIZONTAL CROSS SECTION
DOOR INSTALLATION METAL STRUCTURE

SIGNED: 09/11/2026

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VERTICAL CROSS SECTION
SIDELITE INSTALLATION METAL STRUCTURE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR

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2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED SINGLE DOOR
W/SIDELITES – IMPACT
INSTALLATION DETAILS

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SHEET 5 OF 14

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LUIS R. LOMAS

LICENS. M. S.

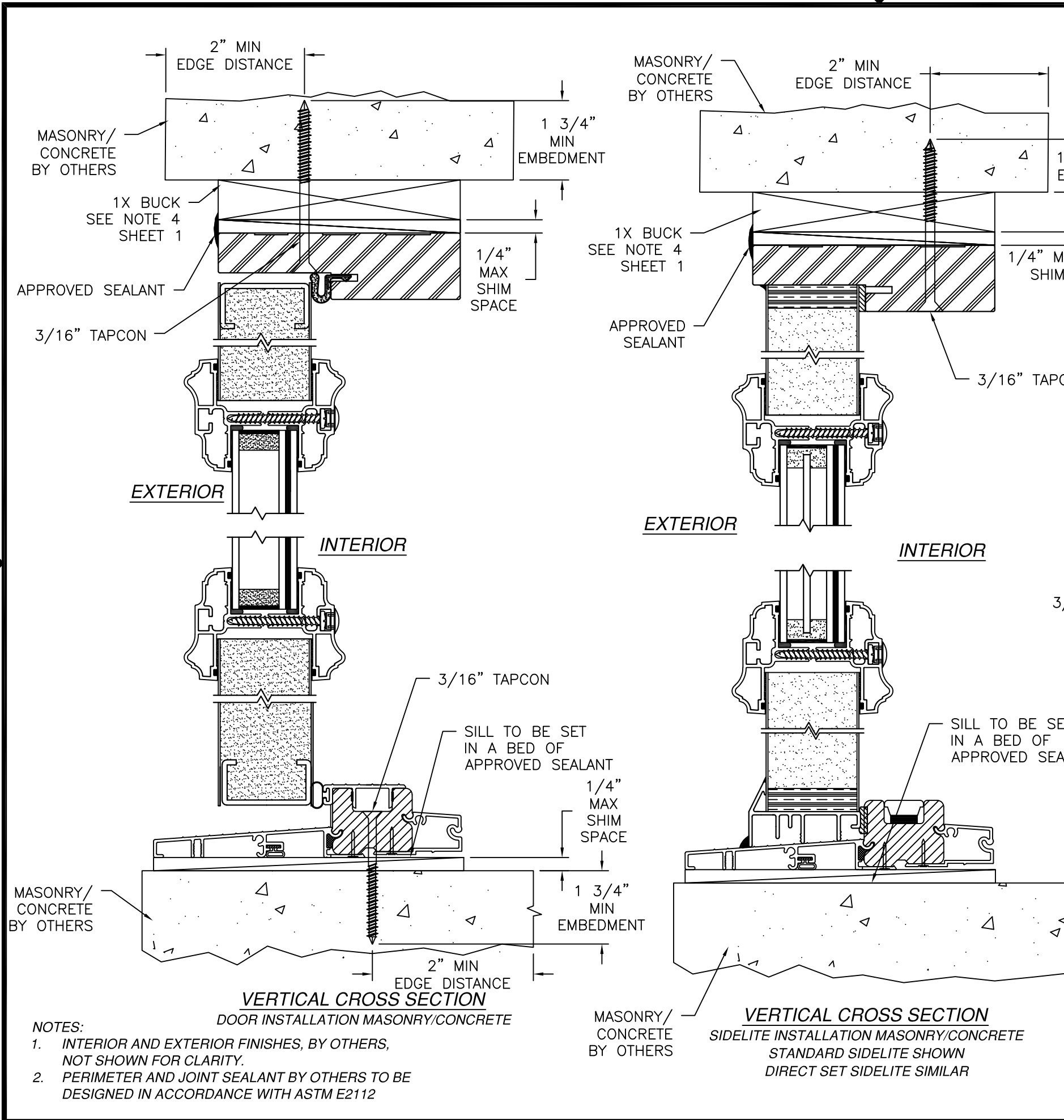
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STATE OF FLORIDA

PROFESSIONAL ENGINEER

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HORIZONTAL CROSS SECTION
DOOR INSTALLATION CONCRETE/MASONRY

HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION CONCRETE/MASONRY
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR

SIGNED: 09/11/2026

PROVIA, LLC.
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SUGARCREEK, OH 44681

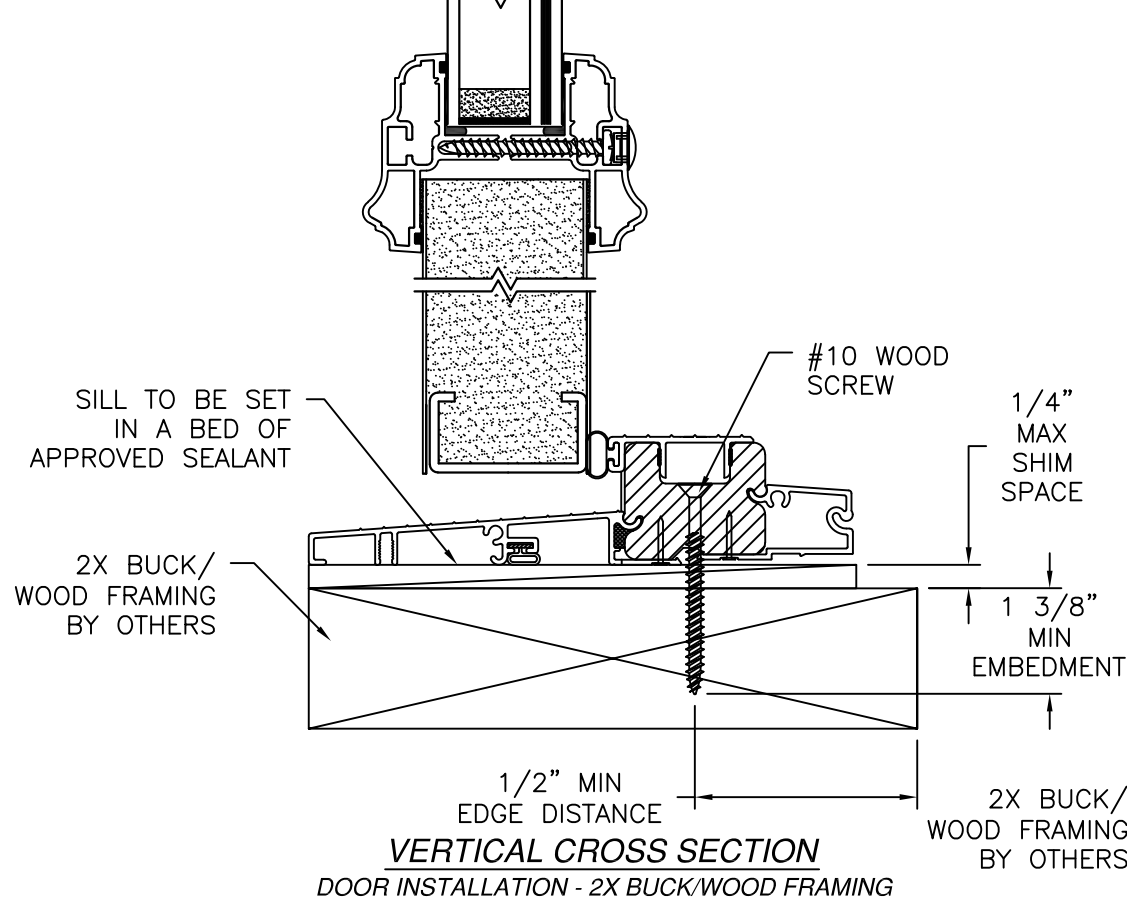
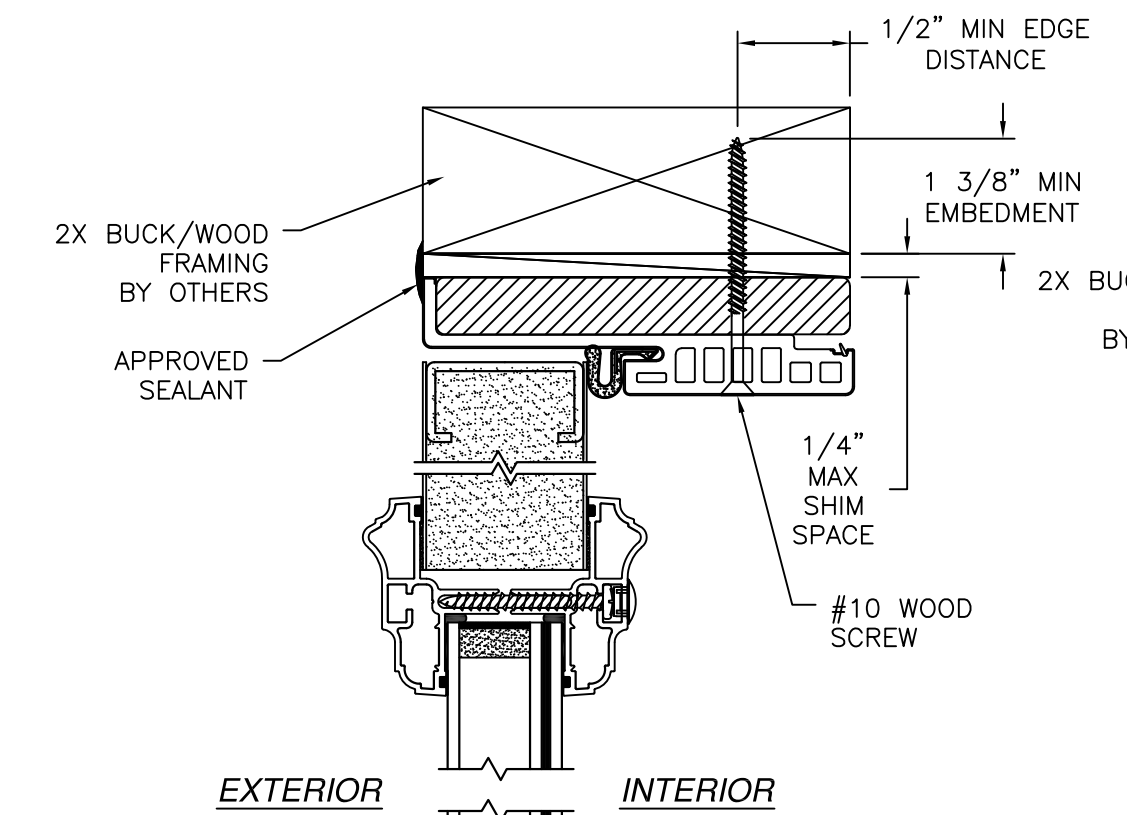
**STEEL OUTSWING GLAZED SINGLE DOOR
W/SIDELITES – IMPACT
INSTALLATION DETAILS**

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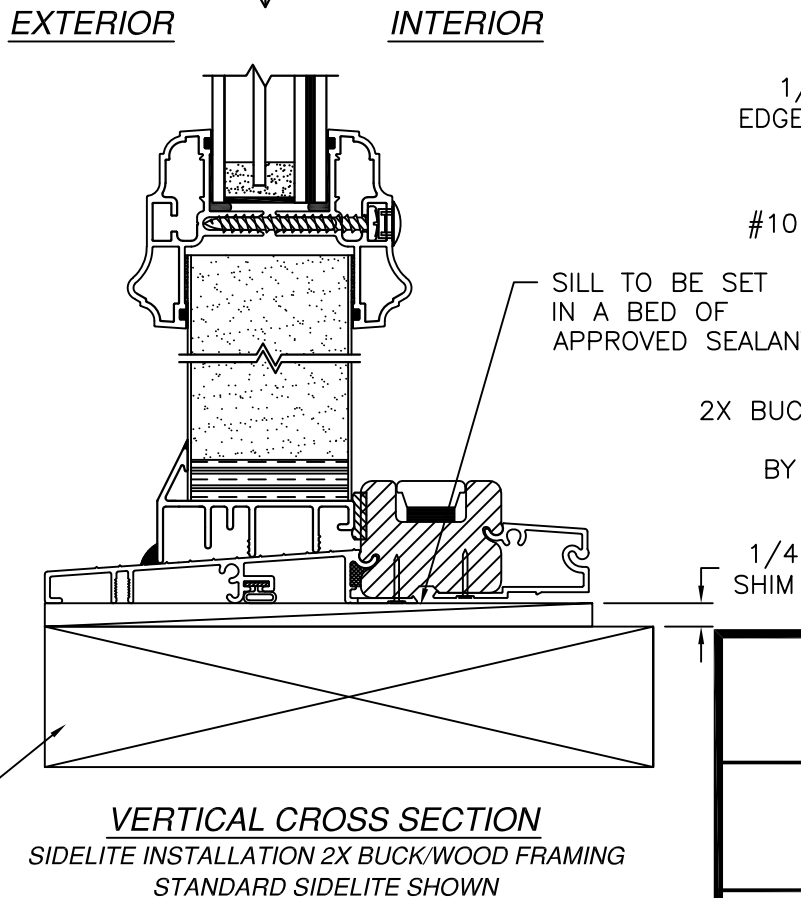
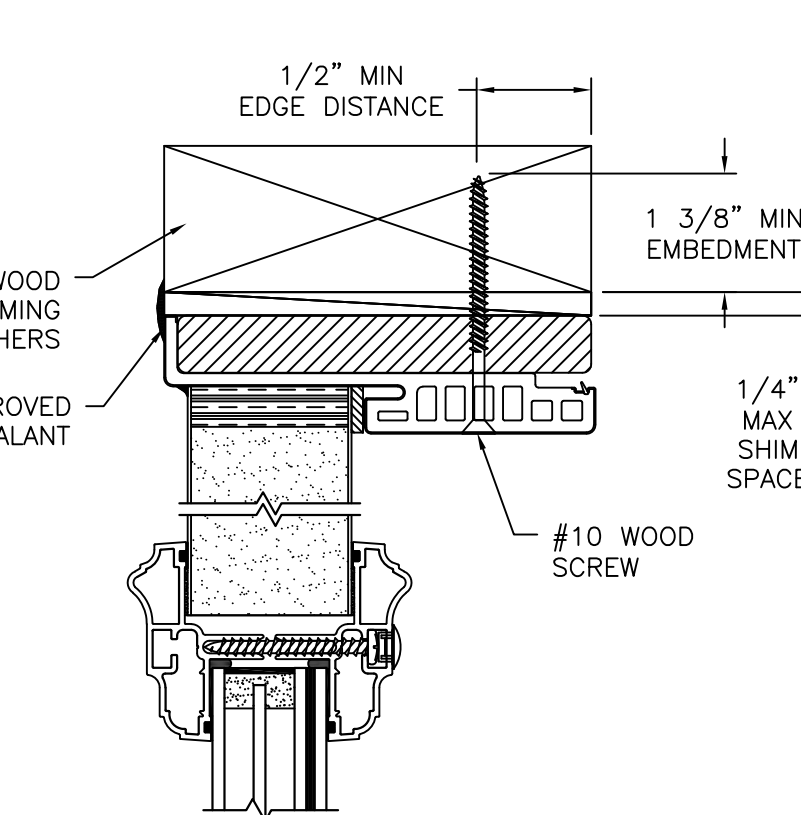
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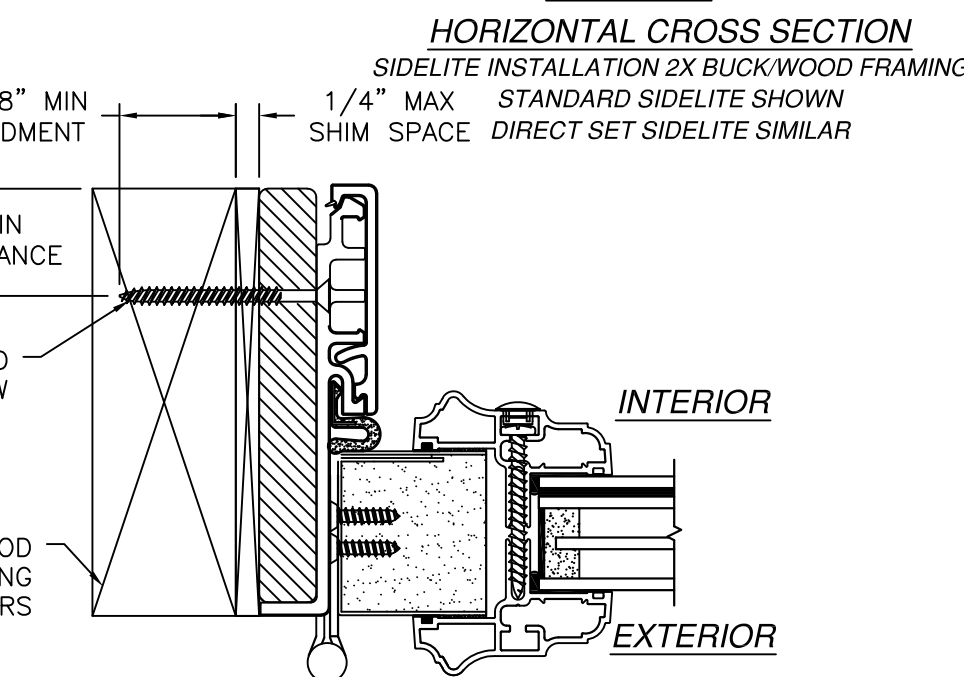
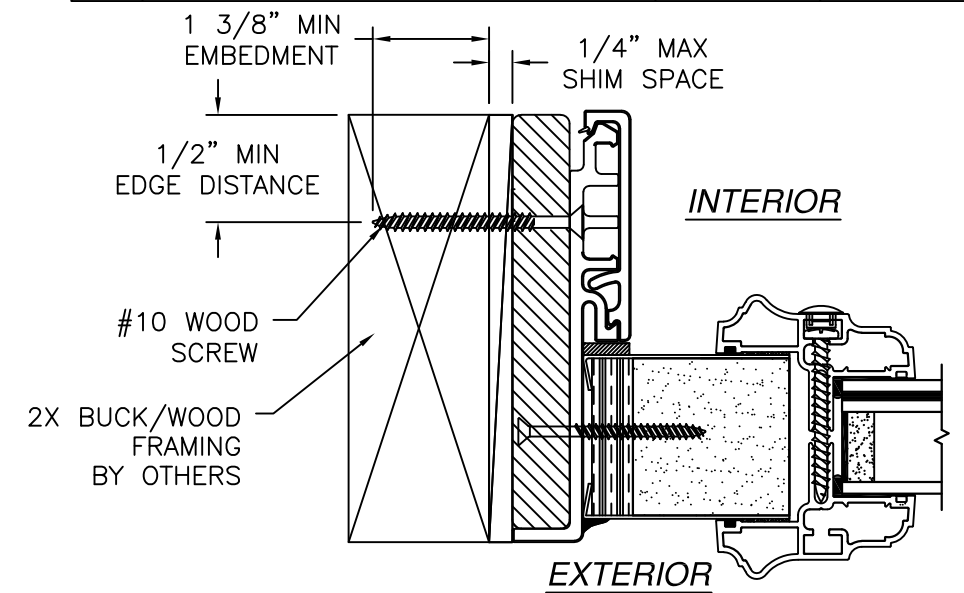


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VERTICAL CROSS SECTION
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



HORIZONTAL CROSS SECTION
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING

PROVIA, LLC.

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STEEL OUTSWING GLAZED SINGLE DOOR
W/SIDELITES - IMPACT
INSTALLATION DETAILS W/FUSION FRAME

DRAWN: J.L.

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SCALE NTS

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SHEET 7 OF 14

L. ROBERTO LOMAS P.E.

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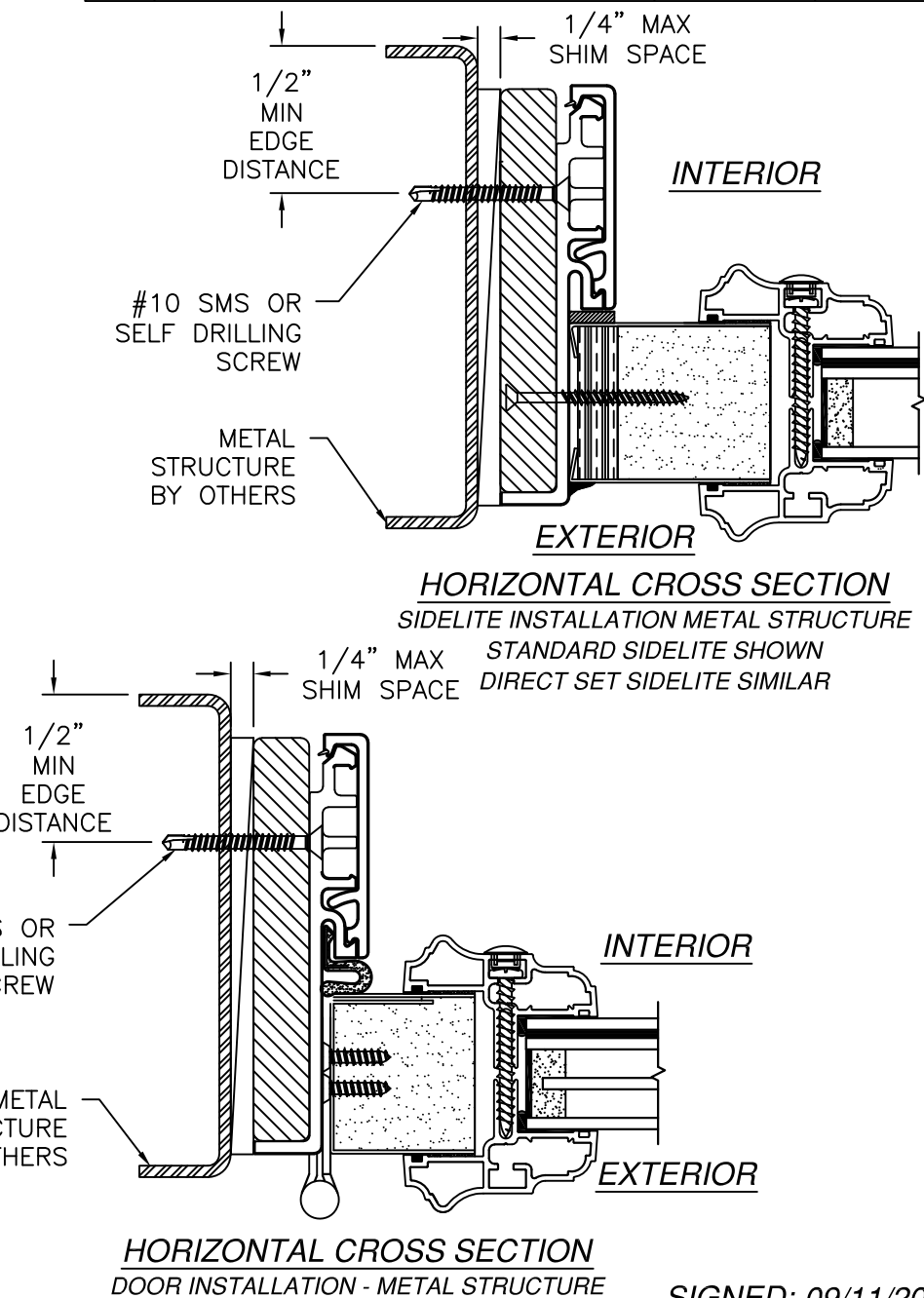
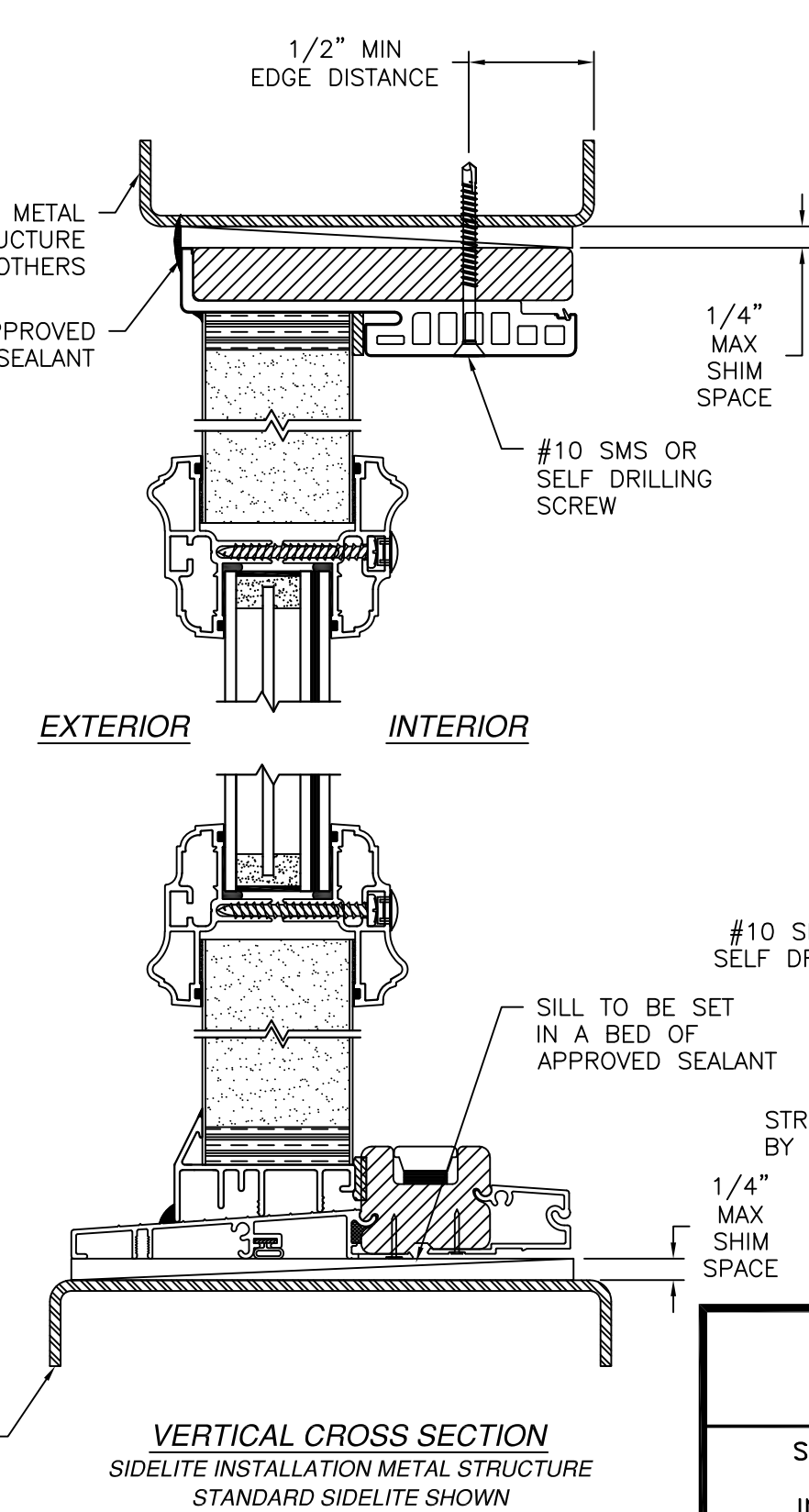
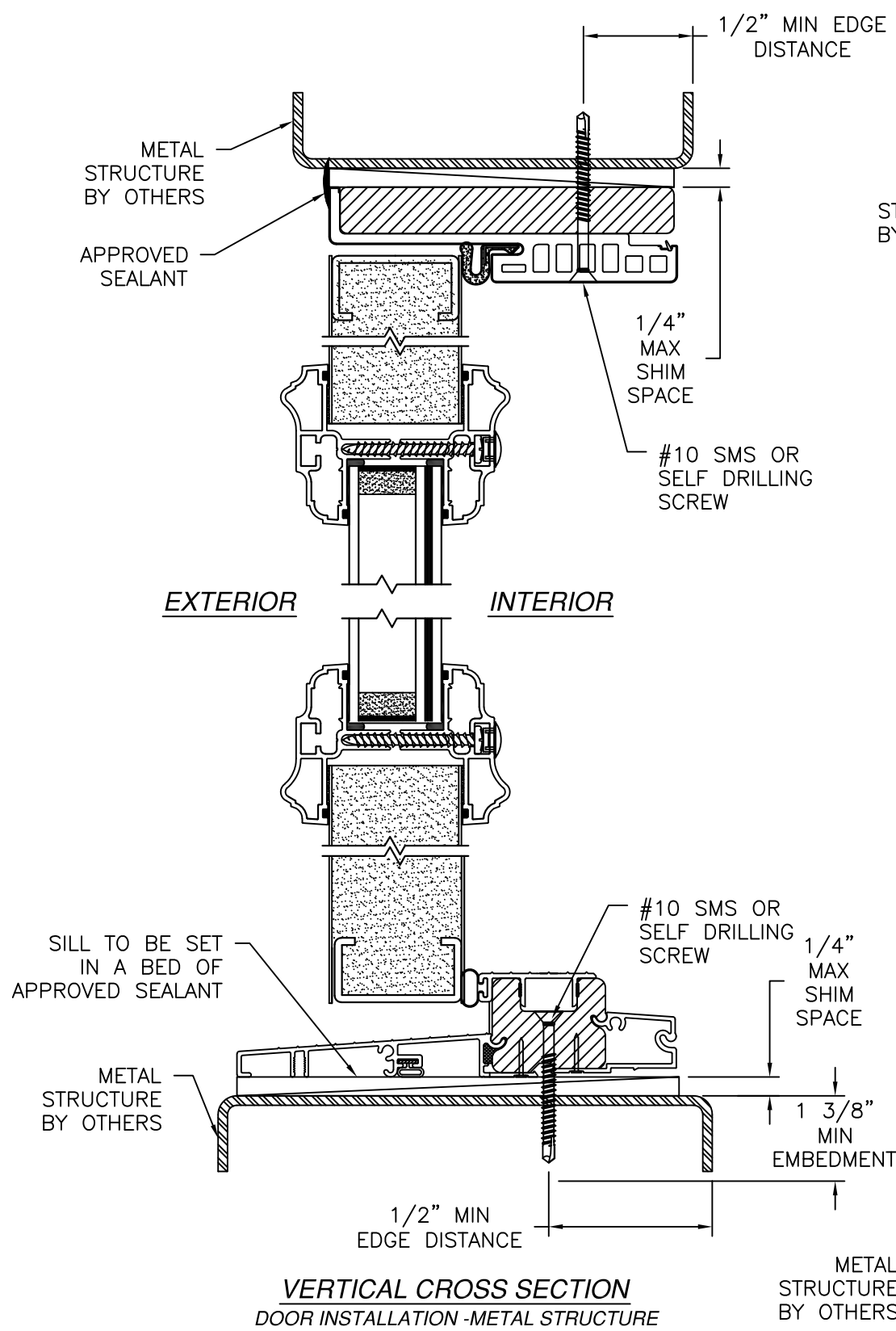
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SHEET 8 OF 14

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LUIS R. LOMAS

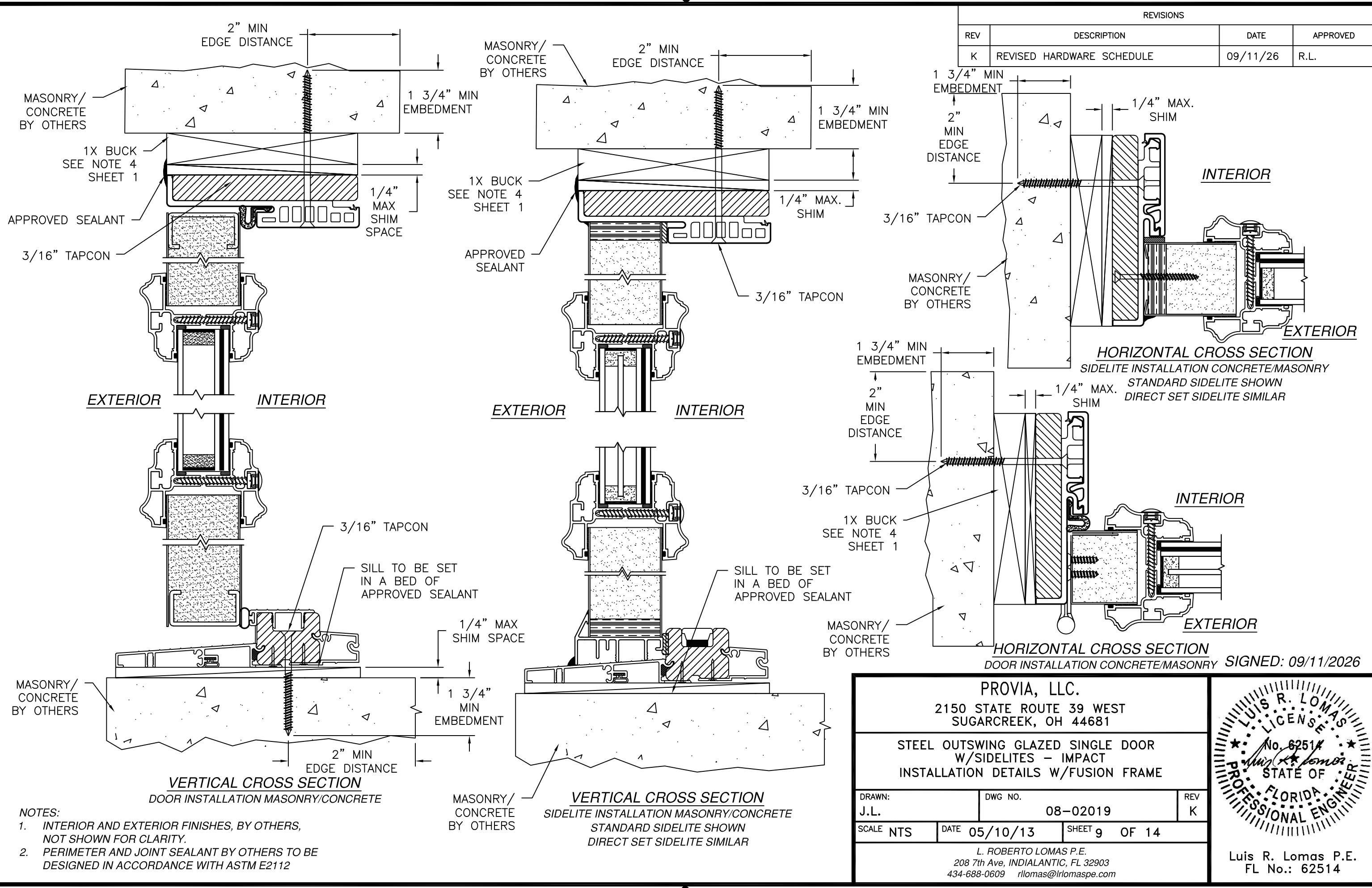
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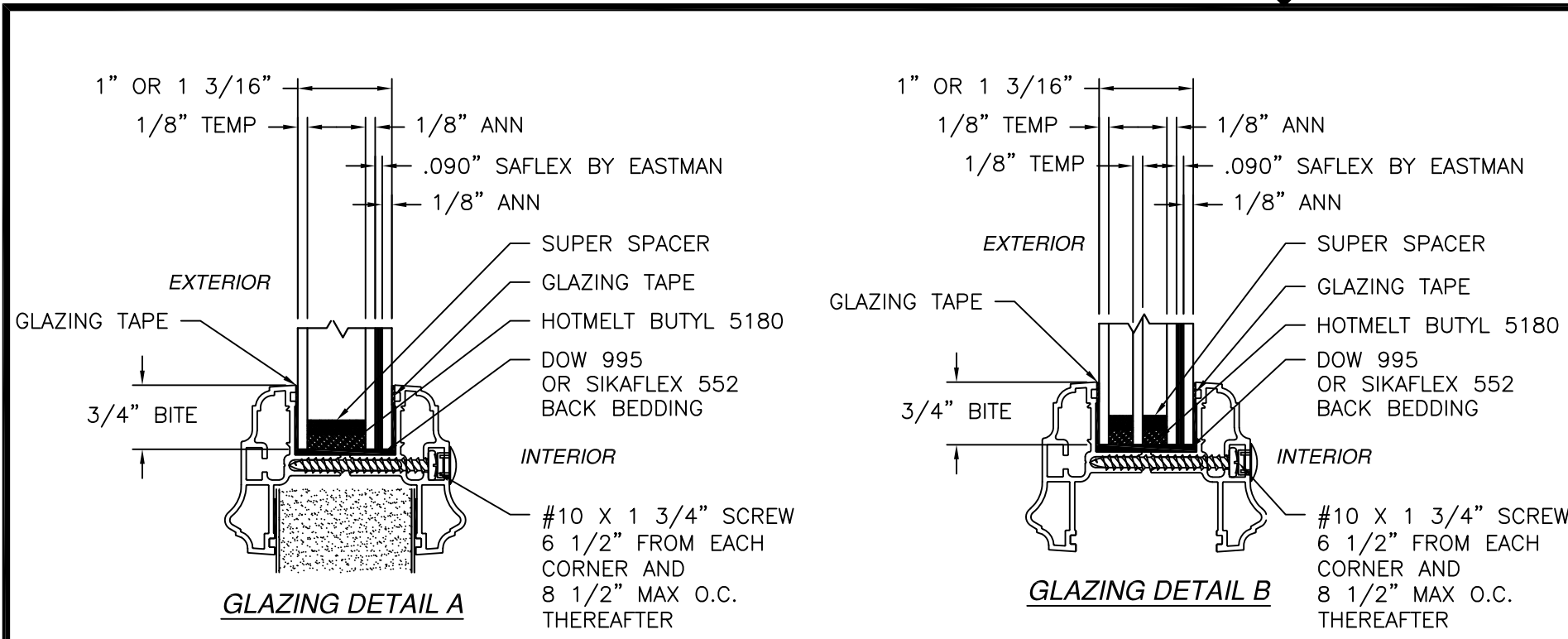
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W/SIDELITES - IMPACT
INSTALLATION DETAILS W/FUSION FRAME

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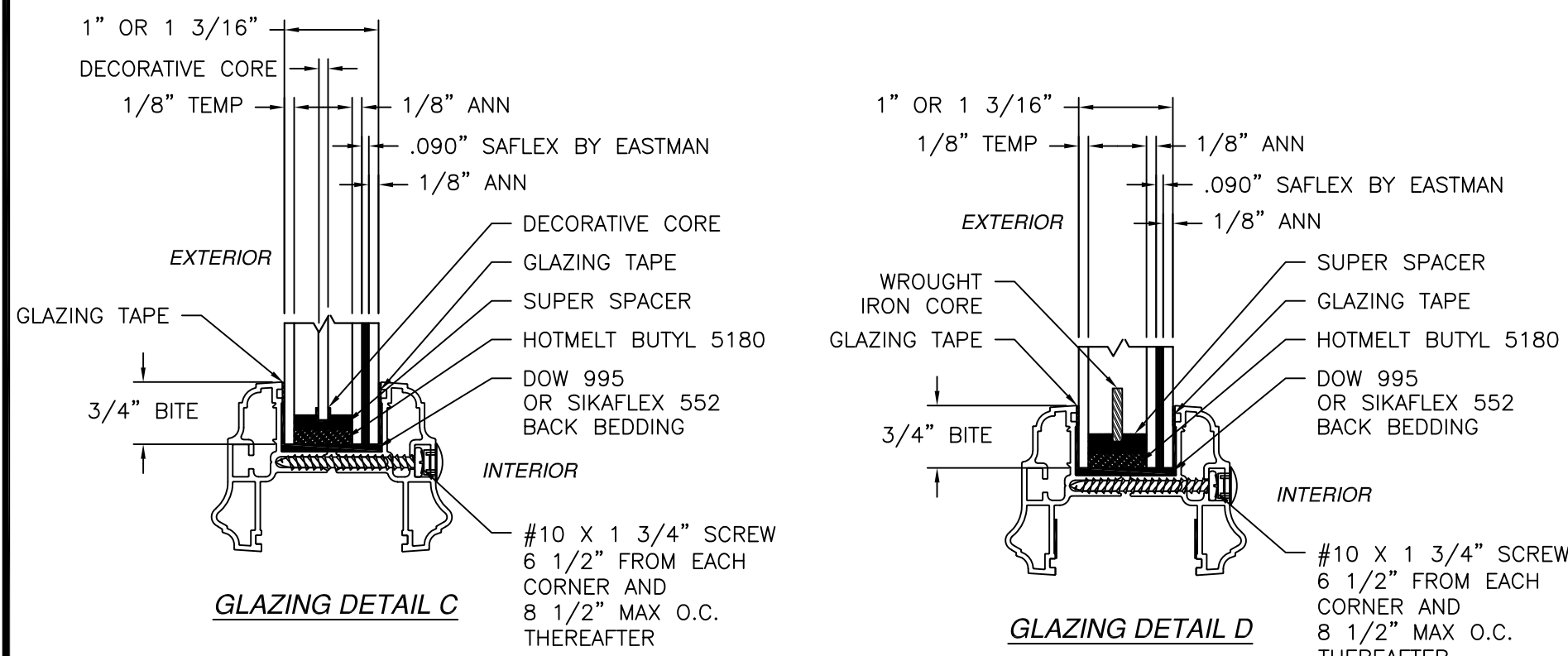
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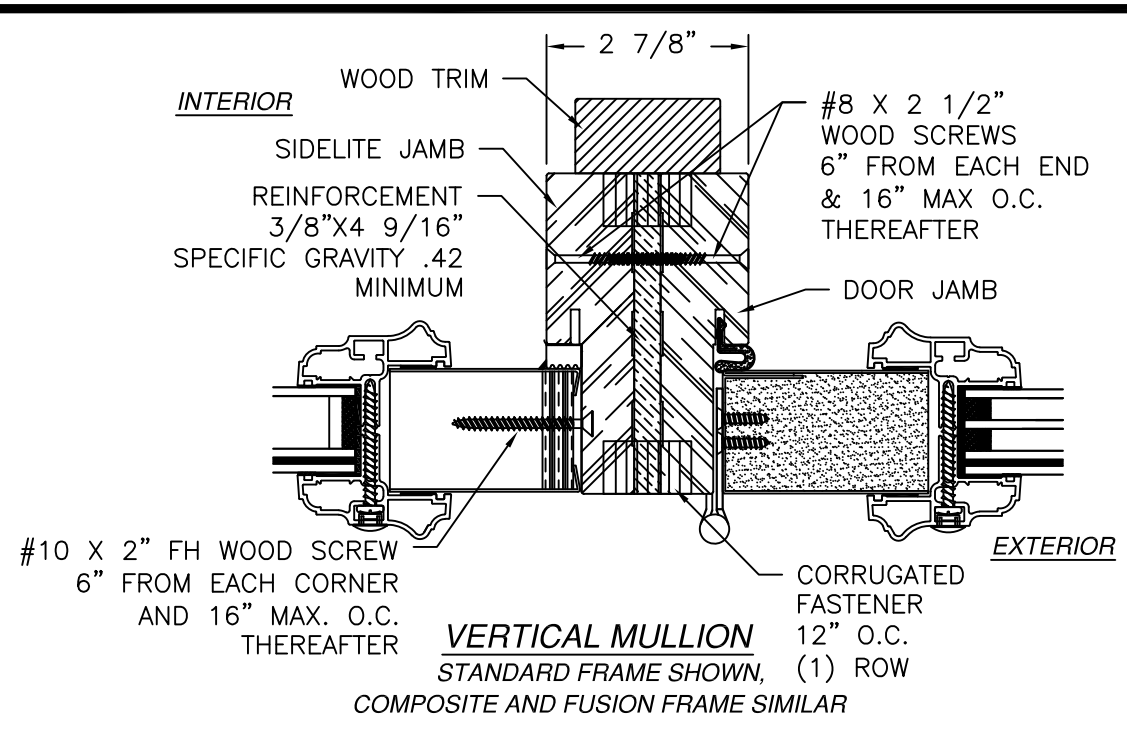
**STEEL OUTSWING GLAZED SINGLE DOOR
 W/SIDELITES - IMPACT
 GLAZING AND HINGES DETAILS**

DRAWN: J.L.	DWG NO. 08-02019	REV K
SCALE NTS	DATE 05/10/13	SHEET 10 OF 14

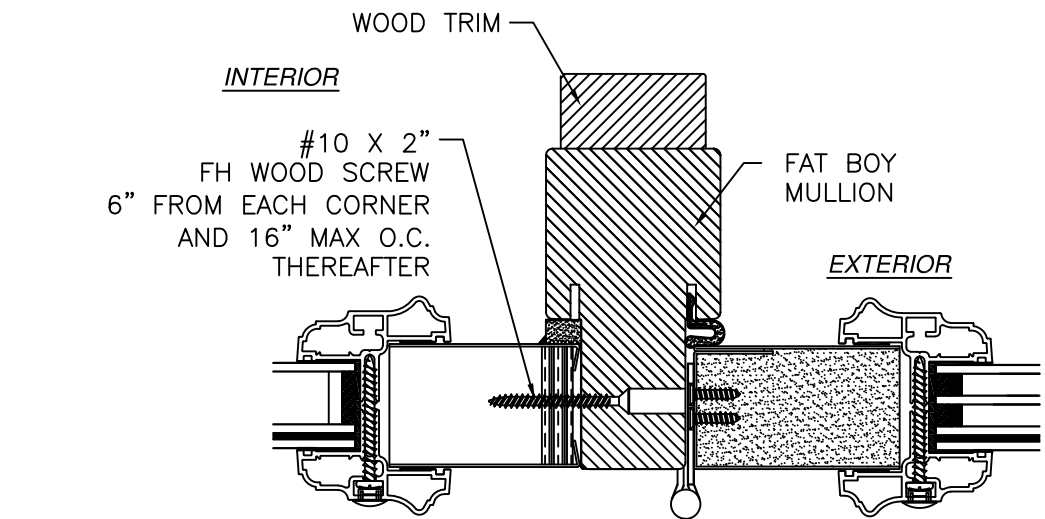
L. ROBERTO LOMAS P.E.
 208 7th Ave, INDIALANTIC, FL 32903
 434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/11/2026

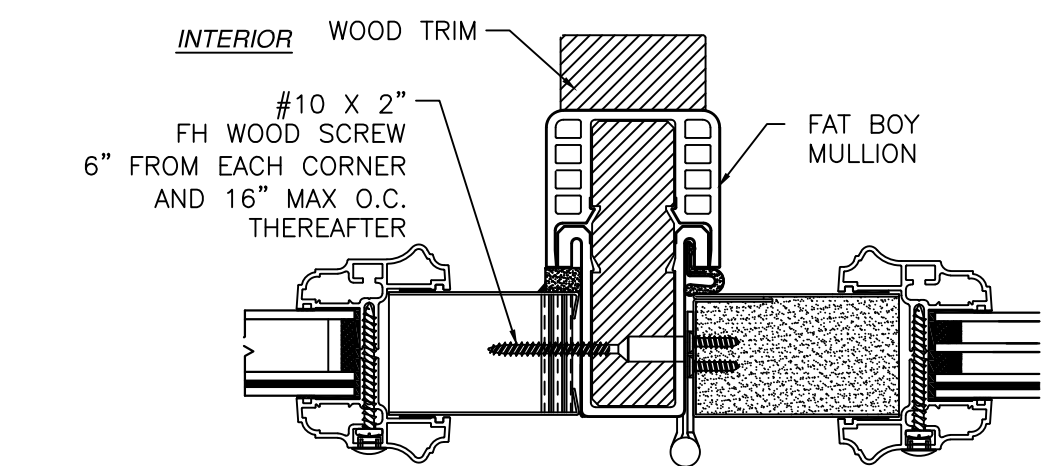
Luis R. Lomas P.E.
 FL No.: 62514



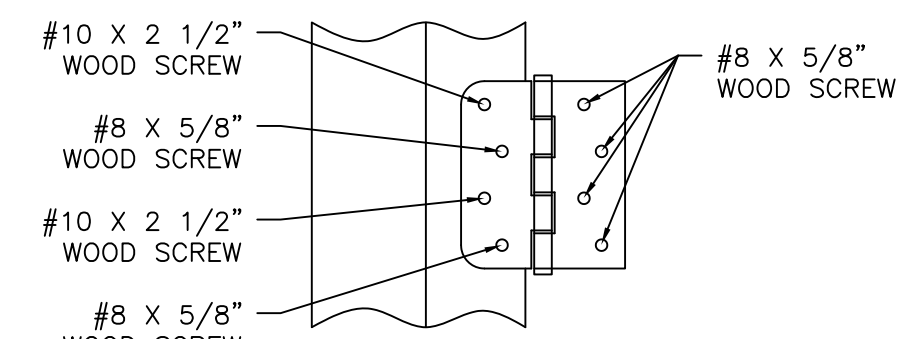
VERTICAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



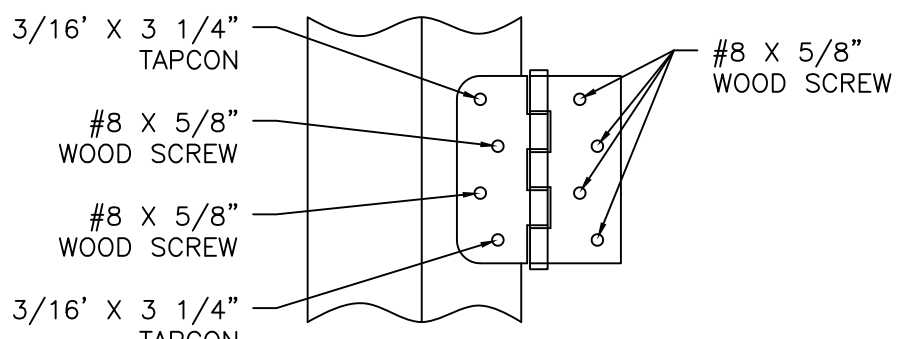
MULLION DETAIL
WITH FAT BOY MULLION



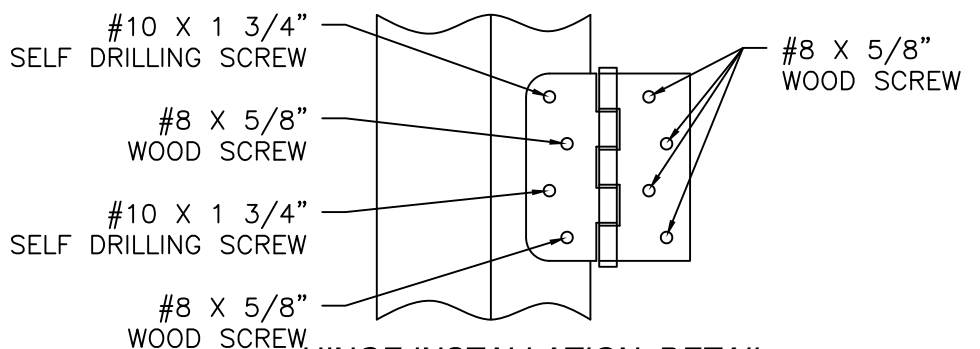
MULLION DETAIL
WITH HYBRID FAT BOY MULLION



HINGE INSTALLATION DETAIL
2X BUCK/WOOD FRAMING



HINGE INSTALLATION DETAIL
MASONRY/CONCRETE



HINGE INSTALLATION DETAIL
METAL STRUCTURE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/11/26	R.L.

PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED SINGLE DOOR
W/SIDELITES - IMPACT
MULLION DETAILS

DRAWN: J.L.	DWG NO. 08-02019	REV K
SCALE NTS	DATE 05/10/13	SHEET 11 OF 14

L. ROBERTO LOMAS P.E.
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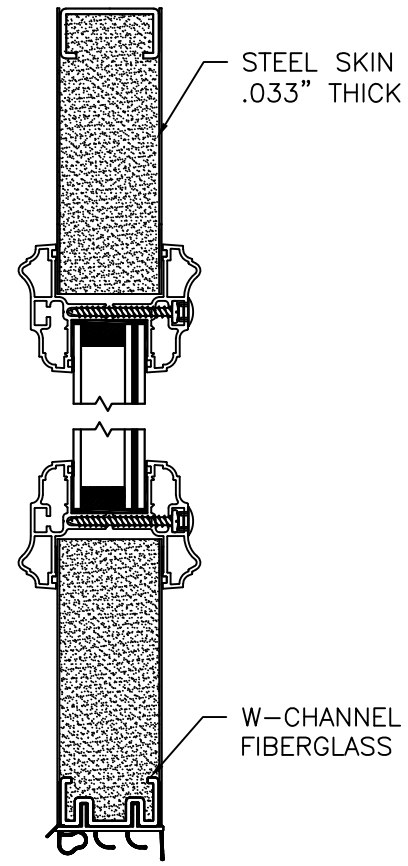
SIGNED: 09/11/2026

LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

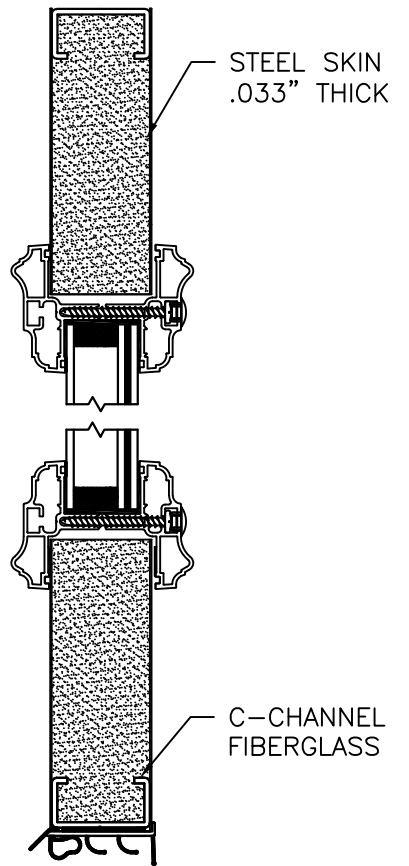
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SLABS AND TRIMS

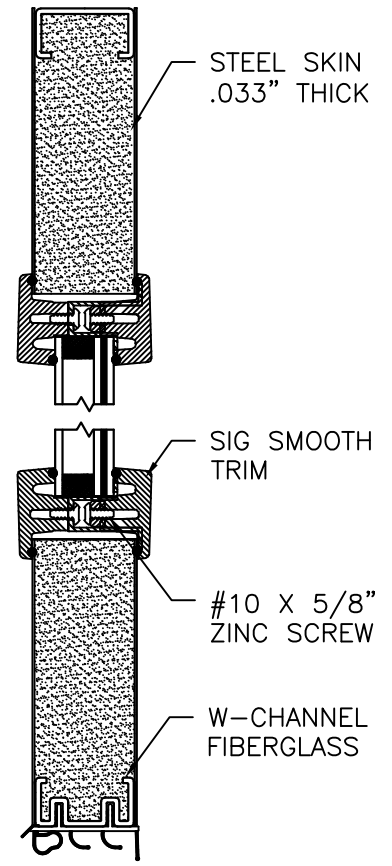
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



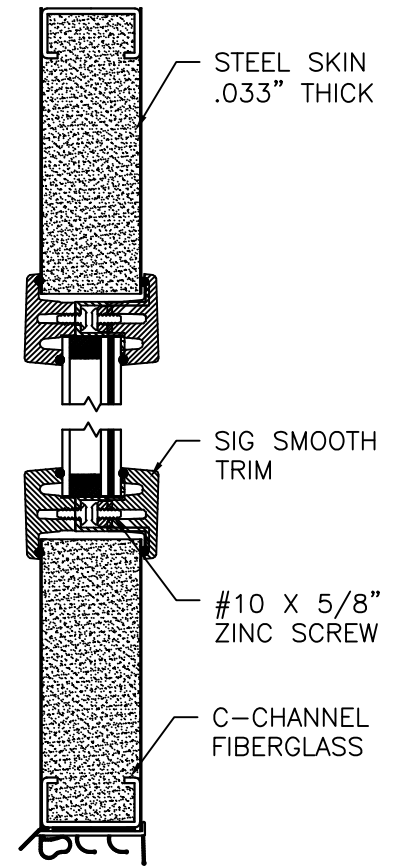
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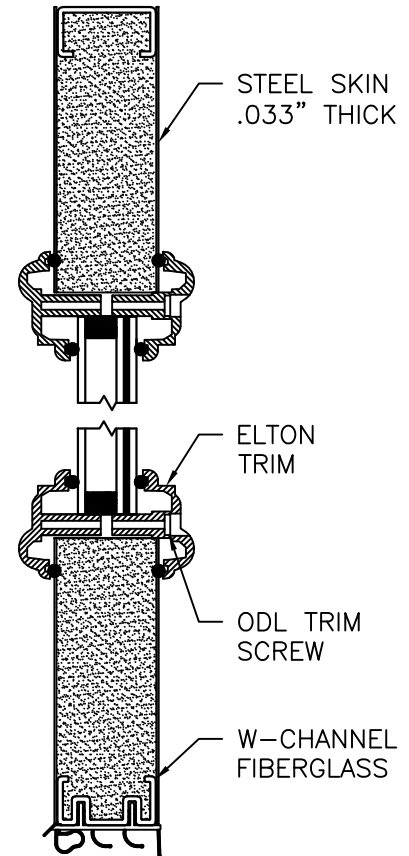
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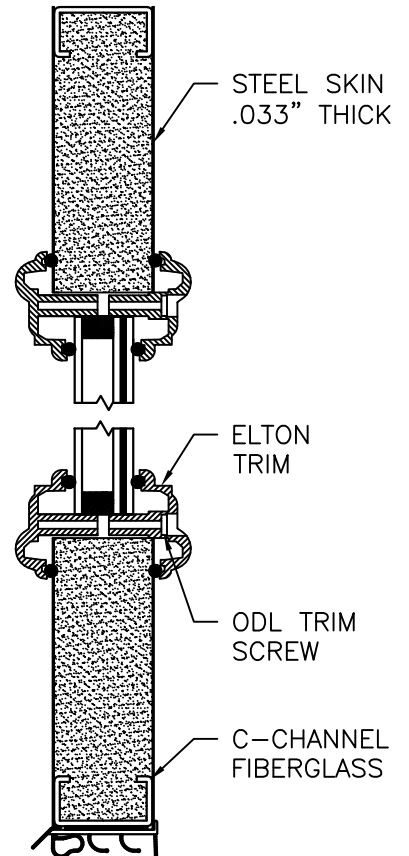
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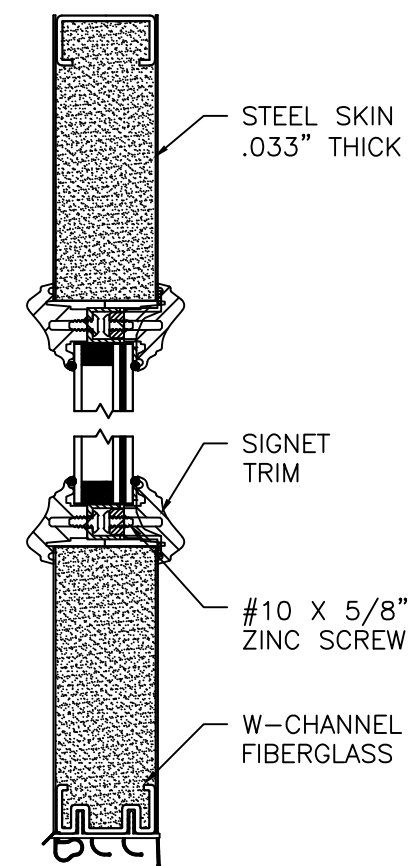
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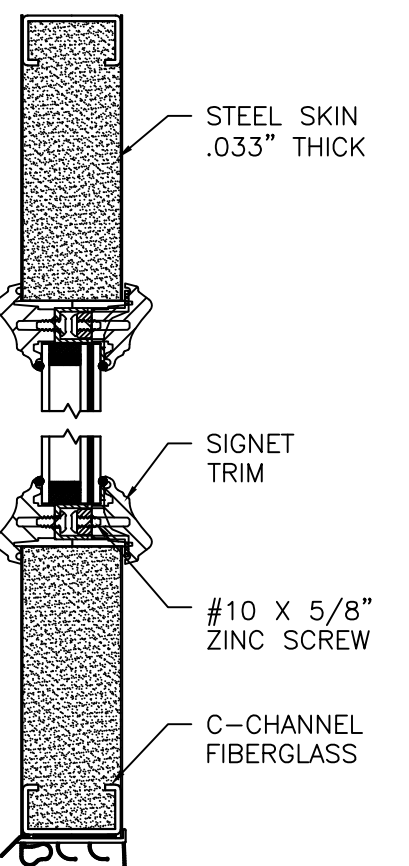
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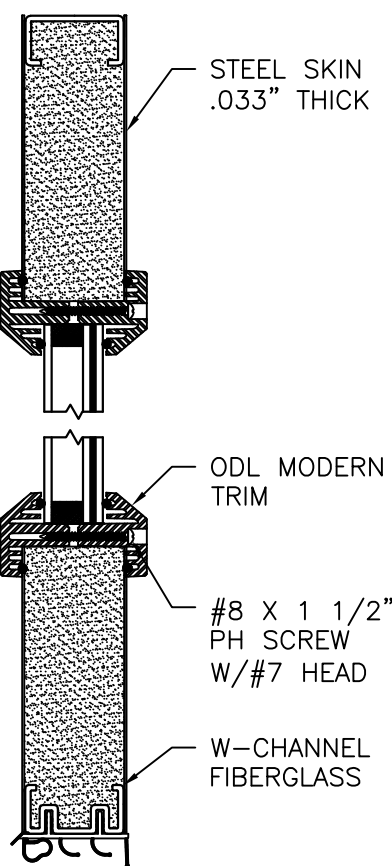
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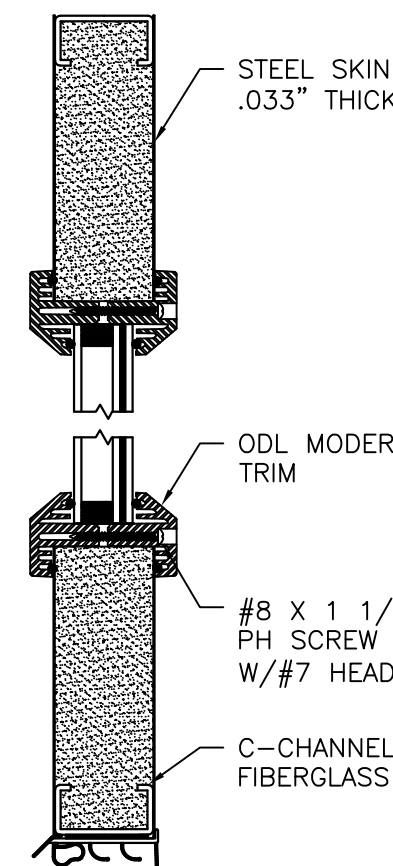
PANEL OPTION 5



PANEL OPTION 6



PANEL OPTION 7



PANEL OPTION 8

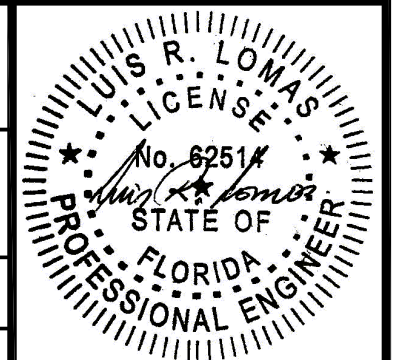
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED SINGLE DOOR
W/SIDELITES - IMPACT
APPROVED SLABS

DRAWN: J.L.	DWG NO. 08-02019	REV K
SCALE NTS	DATE 05/10/13	SHEET 12 OF 14

L. ROBERTO LOMAS P.E.
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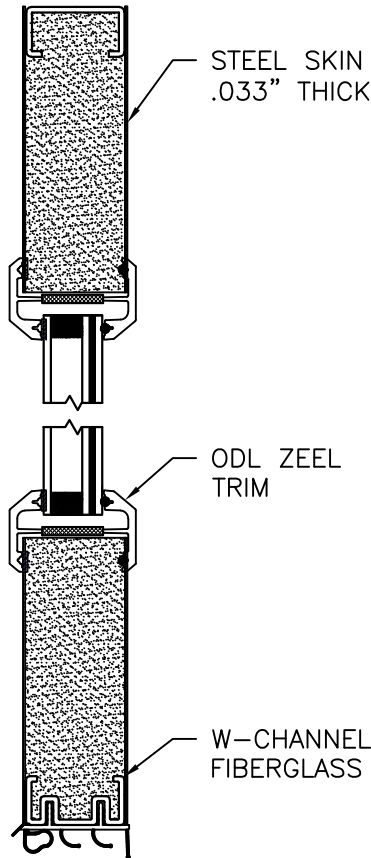
SIGNED: 09/11/2026



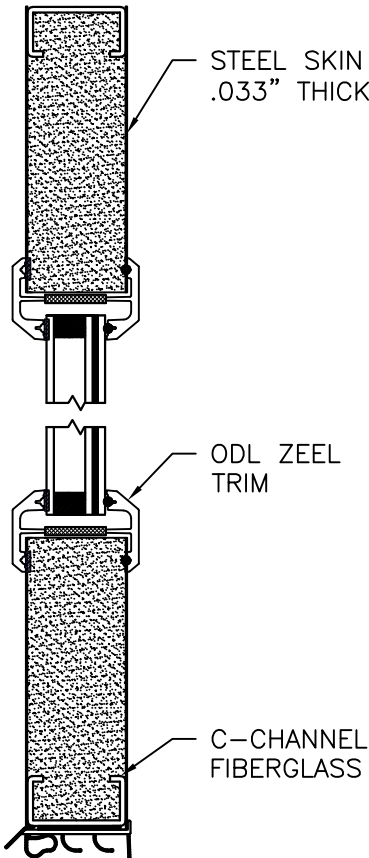
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SLABS AND TRIMS

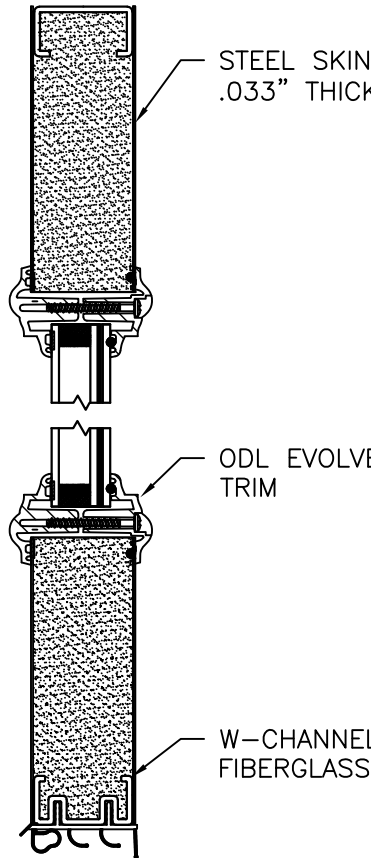
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



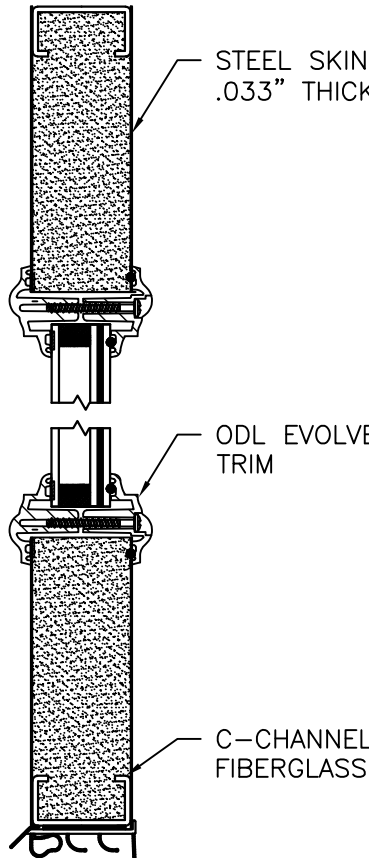
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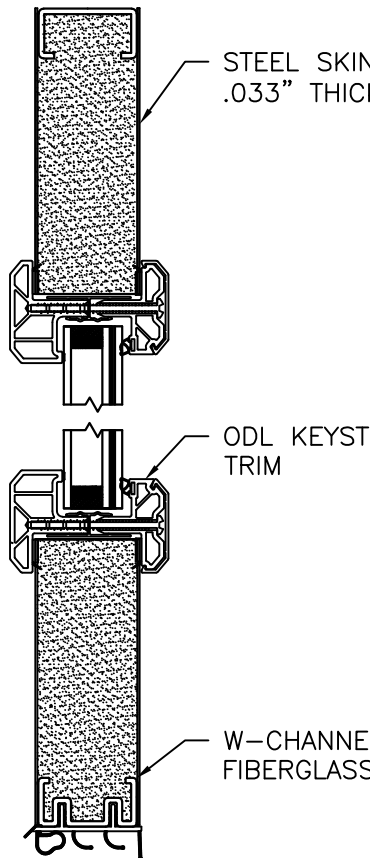
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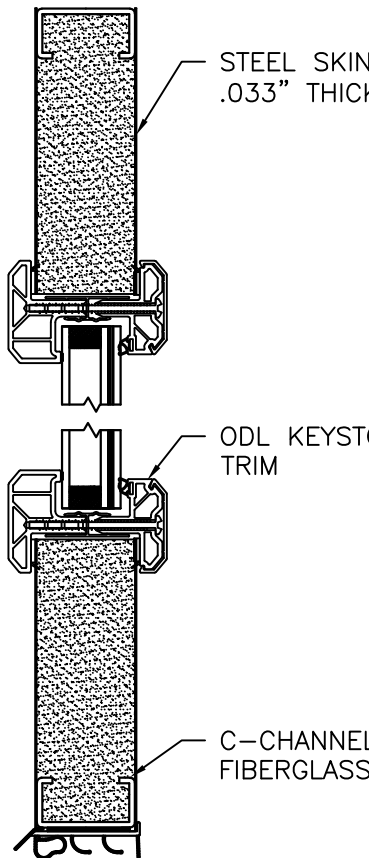
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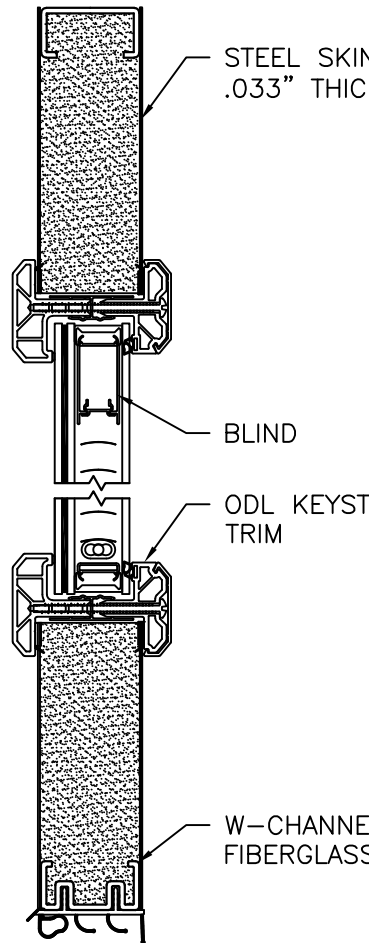
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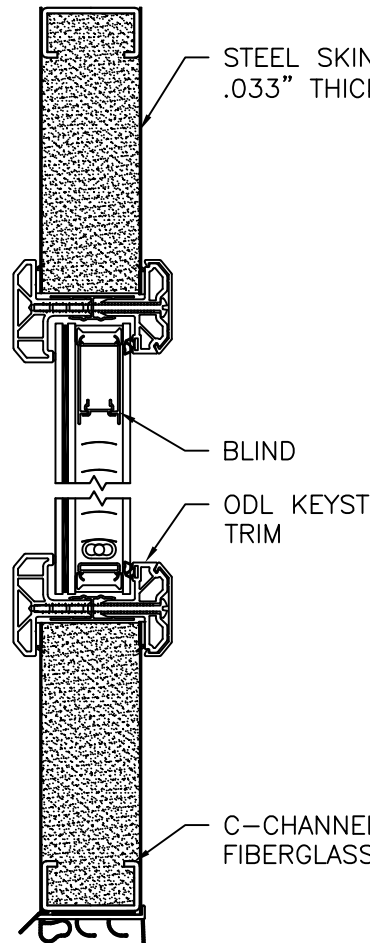
PANEL OPTION 17



PANEL OPTION 18



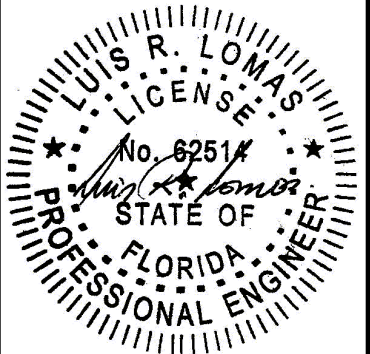
PANEL OPTION 15



PANEL OPTION 16

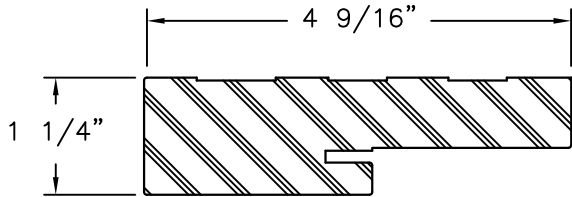
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES - IMPACT APPROVED SLABS		
DRAWN: J.L.	DWG NO. 08-02019	REV K
SCALE NTS	DATE 05/10/13	SHEET 13 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 09/11/2026

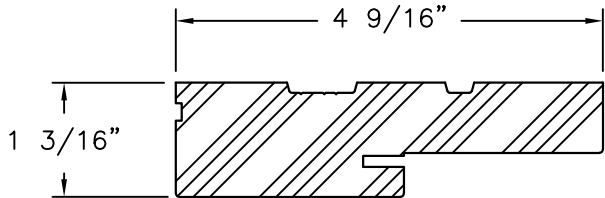


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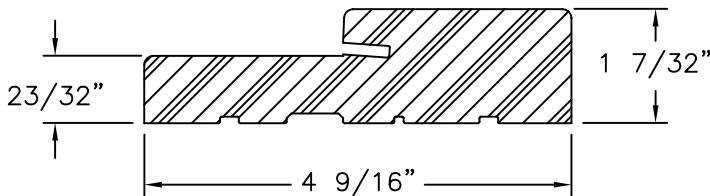
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



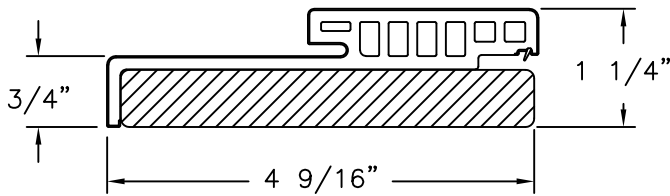
COMPOSITE FRAME PROFILE



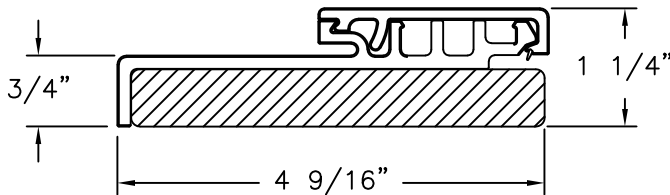
WOOD FRAME PROFILE



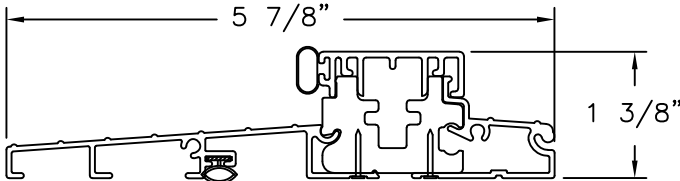
FRAMESAVER
COMPOSITE



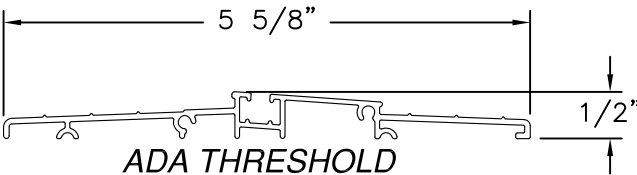
HYBRID HEAD
WOOD/COMPOSITE



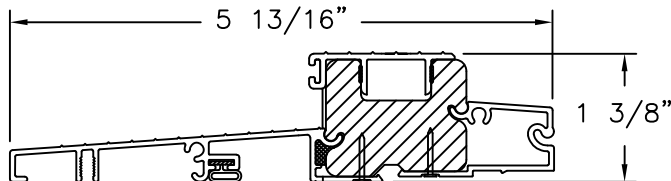
HYBRID JAMB
WOOD/COMPOSITE



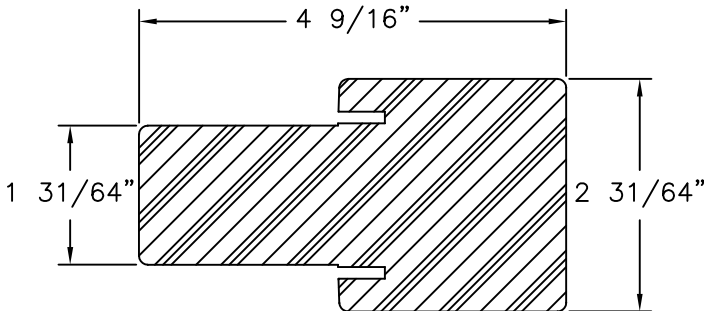
STANDARD OUTSWING THRESHOLD



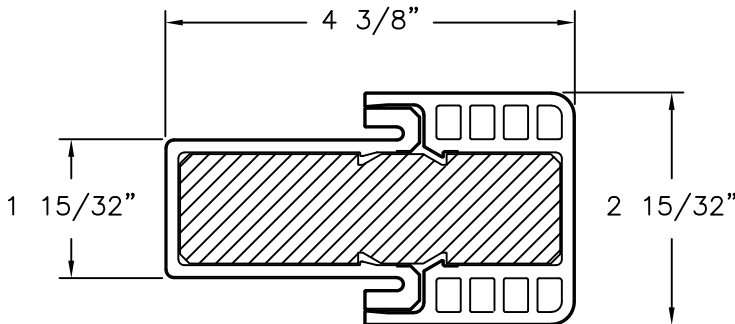
ADA THRESHOLD



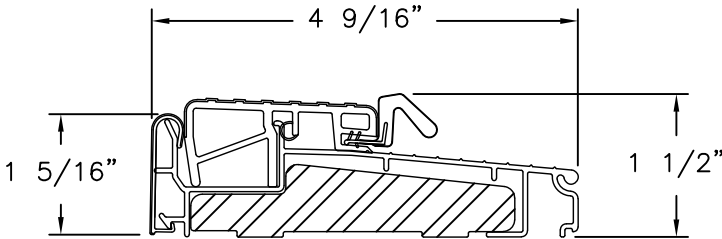
SAHARA OUTSWING THRESHOLD



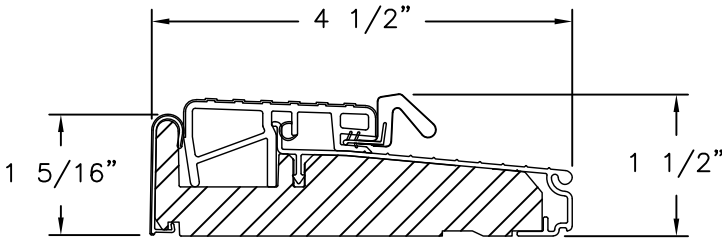
FAT BOY MULLION
COMPOSITE



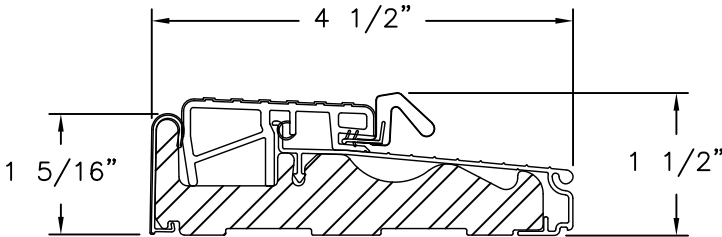
HYBRID FAT BOY MULLION
COMPOSITE



OUTSWING SILL ZOBL4565



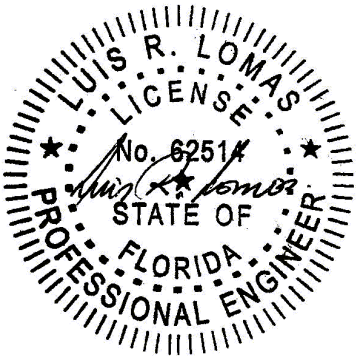
OUTSWING SILL ZOB4565F



OUTSWING SILL ZOBLH4565

SIGNED: 09/11/2026

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES - IMPACT COMPONENTS		
DRAWN: J.L.	DWG NO. 08-02019	REV K
SCALE NTS	DATE 05/10/13	SHEET 14 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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