

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), FIBERGLASS .085" THICK (MINIMUM).
SIDELITE SKIN MATERIAL: STEEL .022" THICK (MINIMUM)
7. SIDELITES AND TRANSOM MUST BE GLAZED PER ASTM E1300, SEE SHEET 12 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/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM – IMPACT
NOTES

DRAWN:
J.L.

DWG NO.
08-02040

REV
K

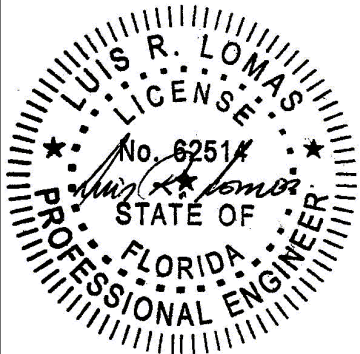
SCALE NTS

DATE 04/23/13

SHEET 1 OF 18

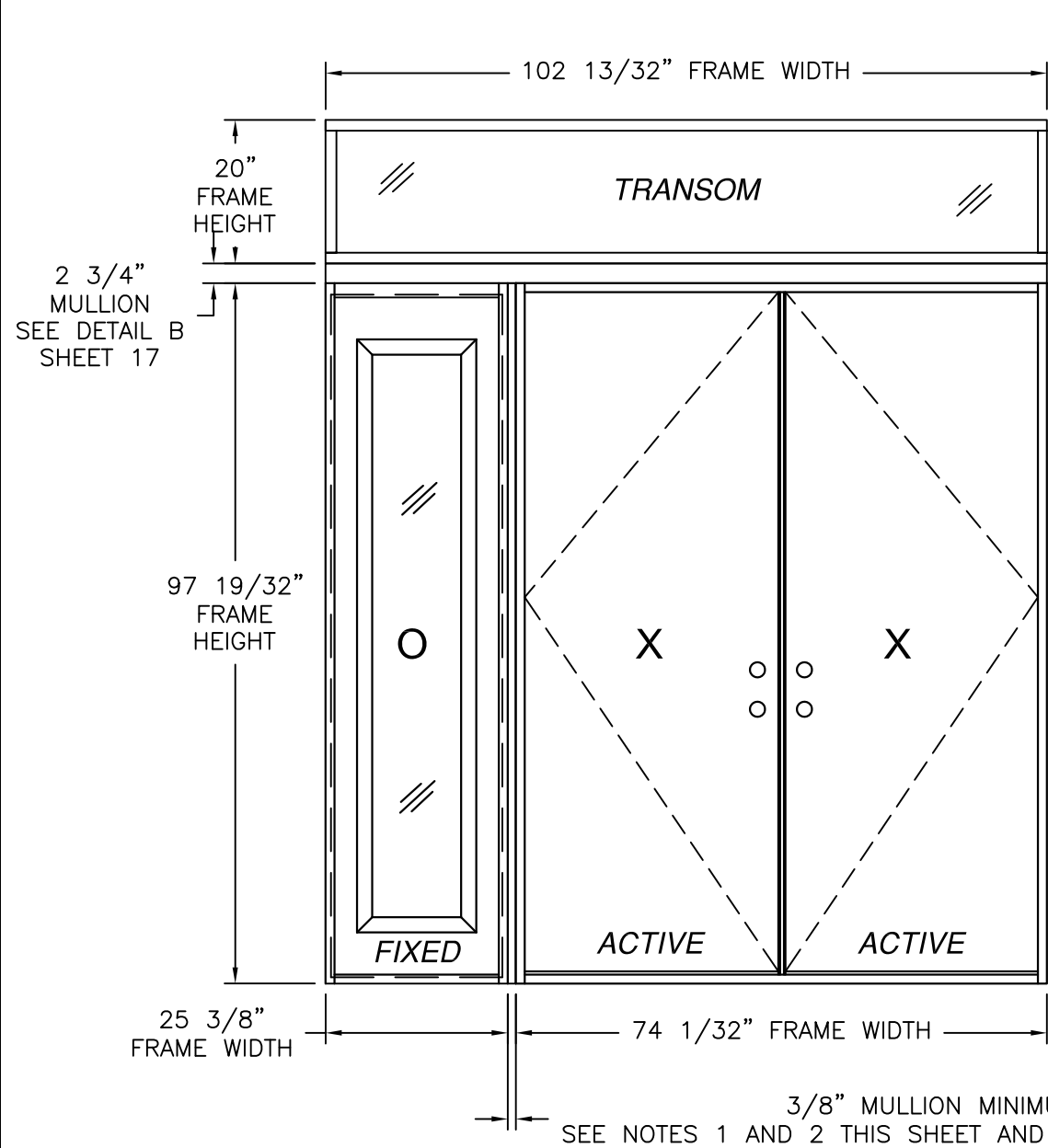
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208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/11/2026



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

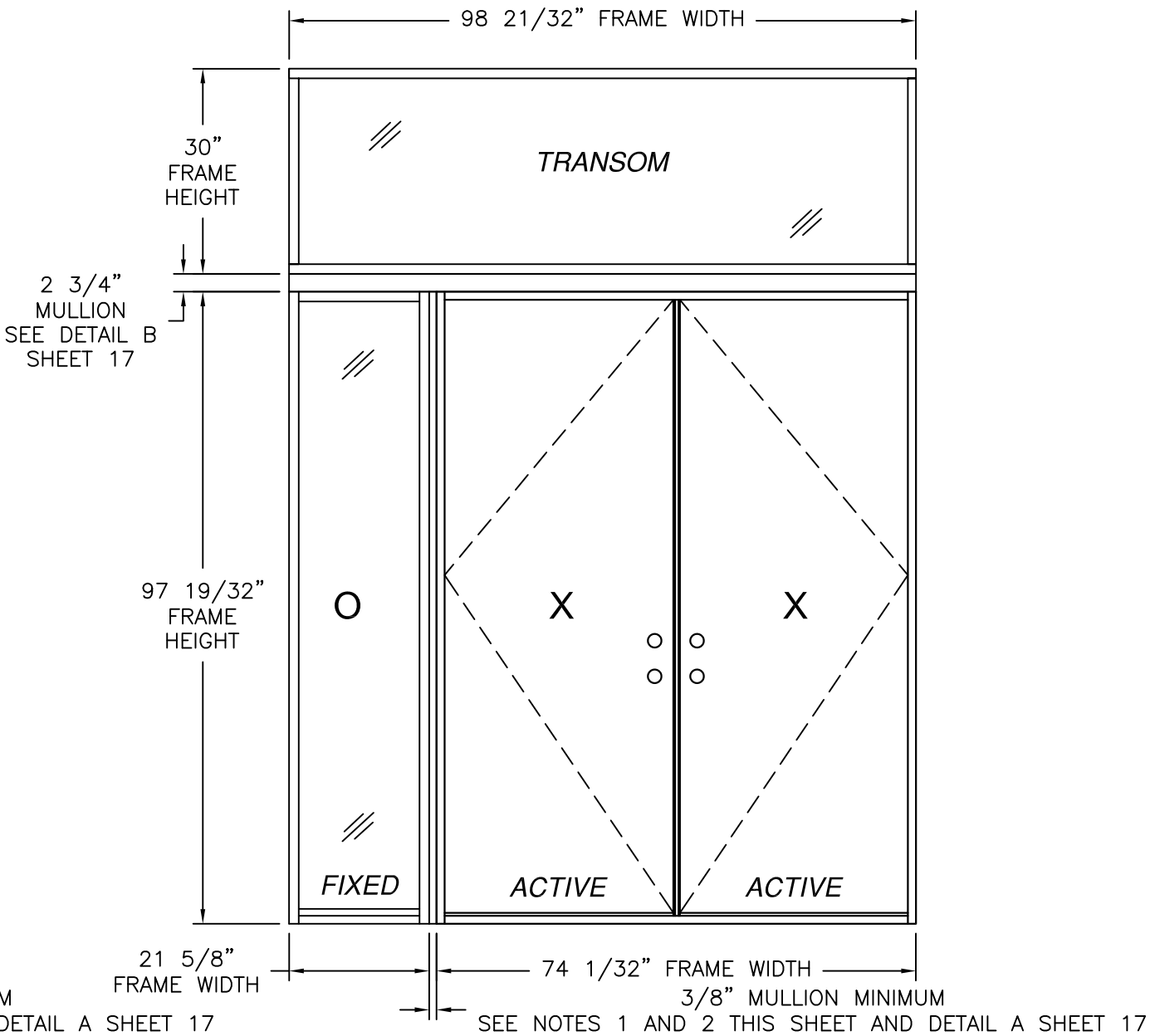
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DOUBLE DOOR W/ STD SIDELITE AND TRANSOM
EXTERIOR VIEW
OXX SHOWN XXO ALSO APPROVED

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3



DOUBLE DOOR W/ DIRECT SET SIDELITE AND TRANSOM
EXTERIOR VIEW
OXX SHOWN XXO ALSO APPROVED

WITH PANOLOCK MULTI-POINT

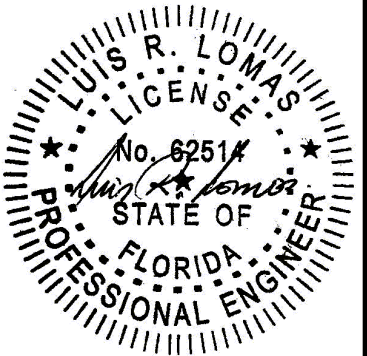
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MISSILE LEVEL D, WIND ZONE 3

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

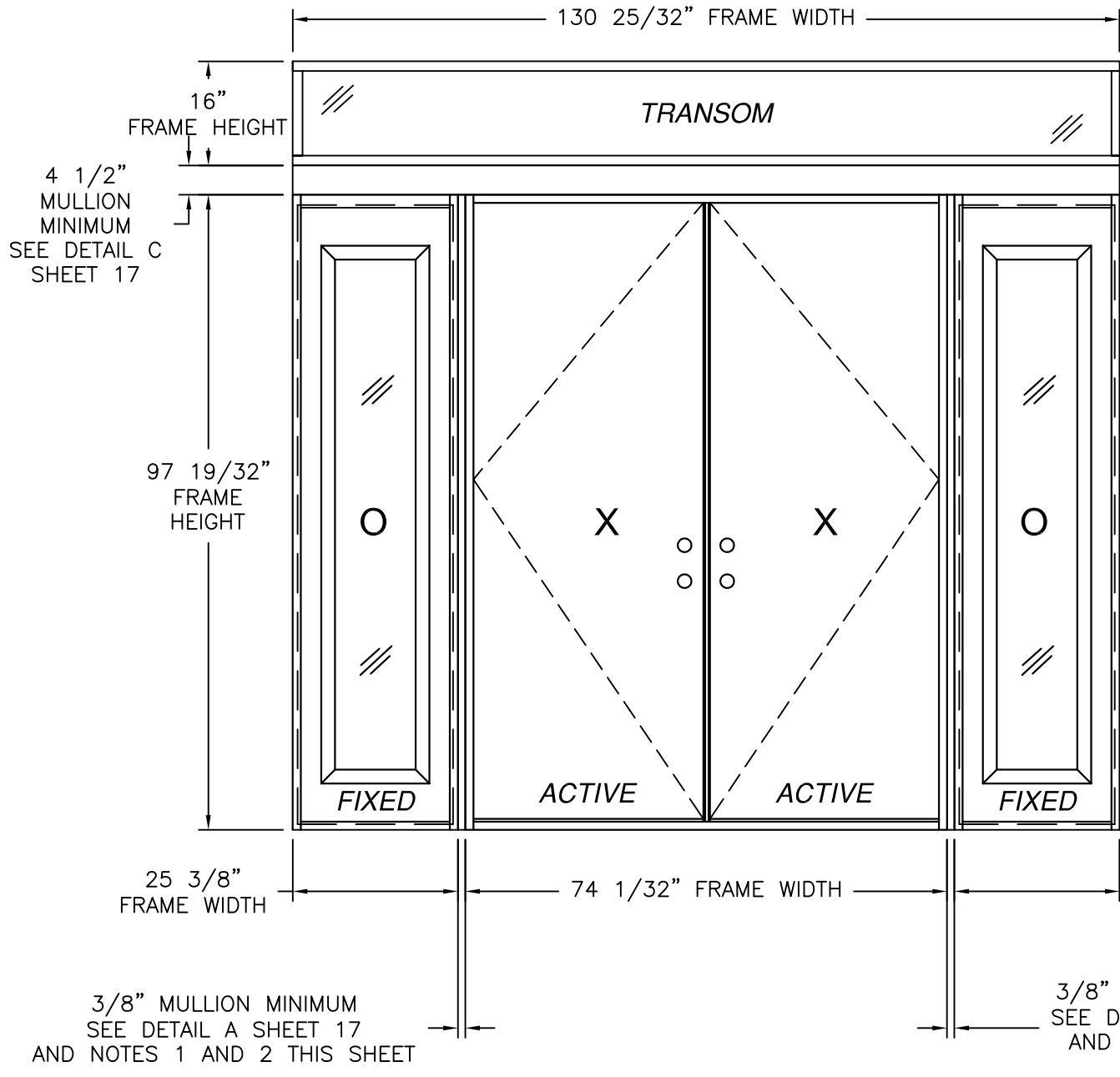
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM – IMPACT ELEVATIONS		
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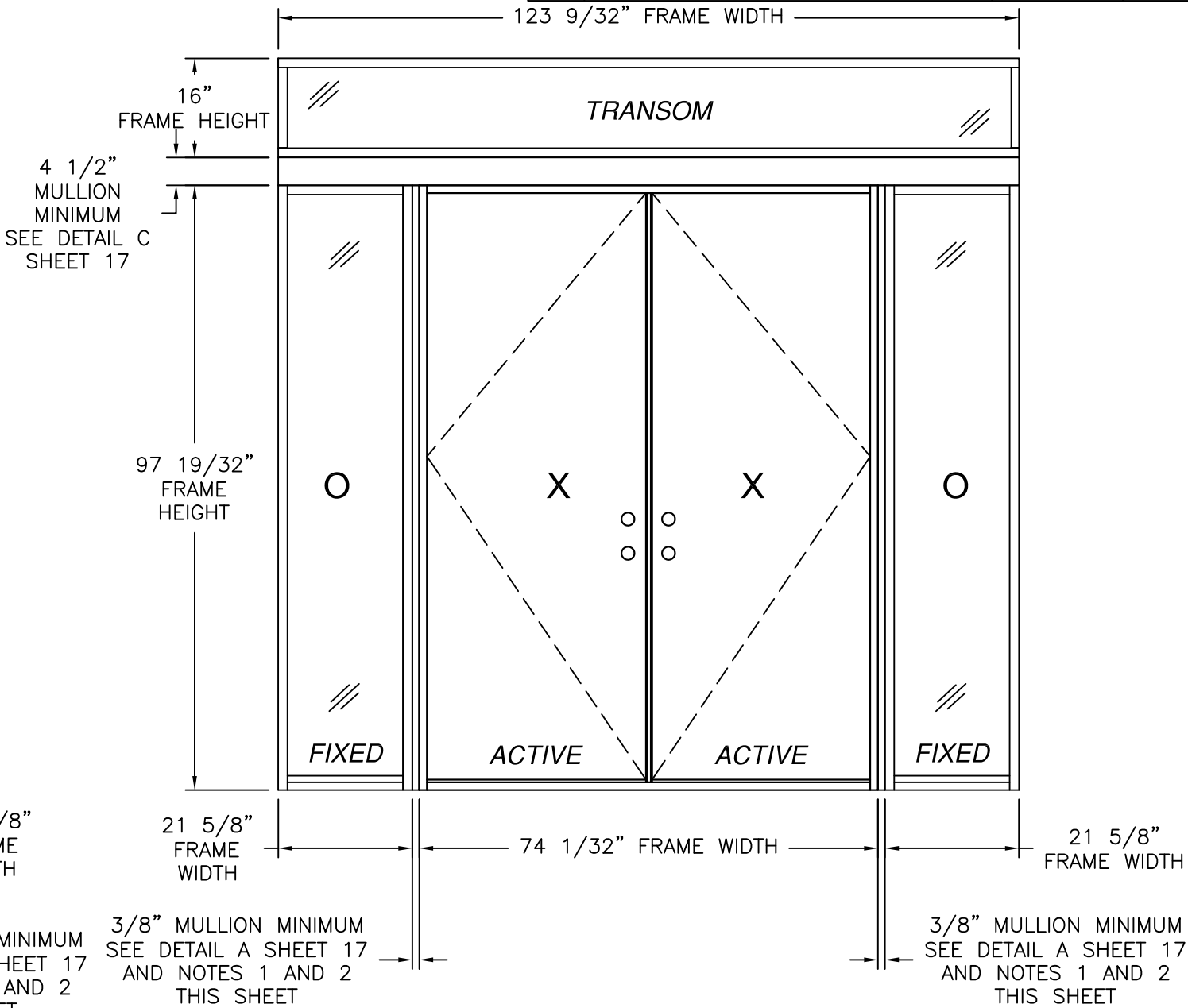
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MISSILE LEVEL D, WIND ZONE 3

WITH PANOLOCK MULTI-POINT	
DESIGN PRESSURE RATING	IMPACT RATING
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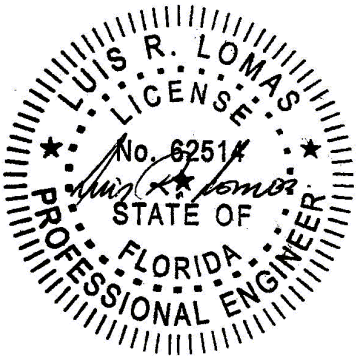
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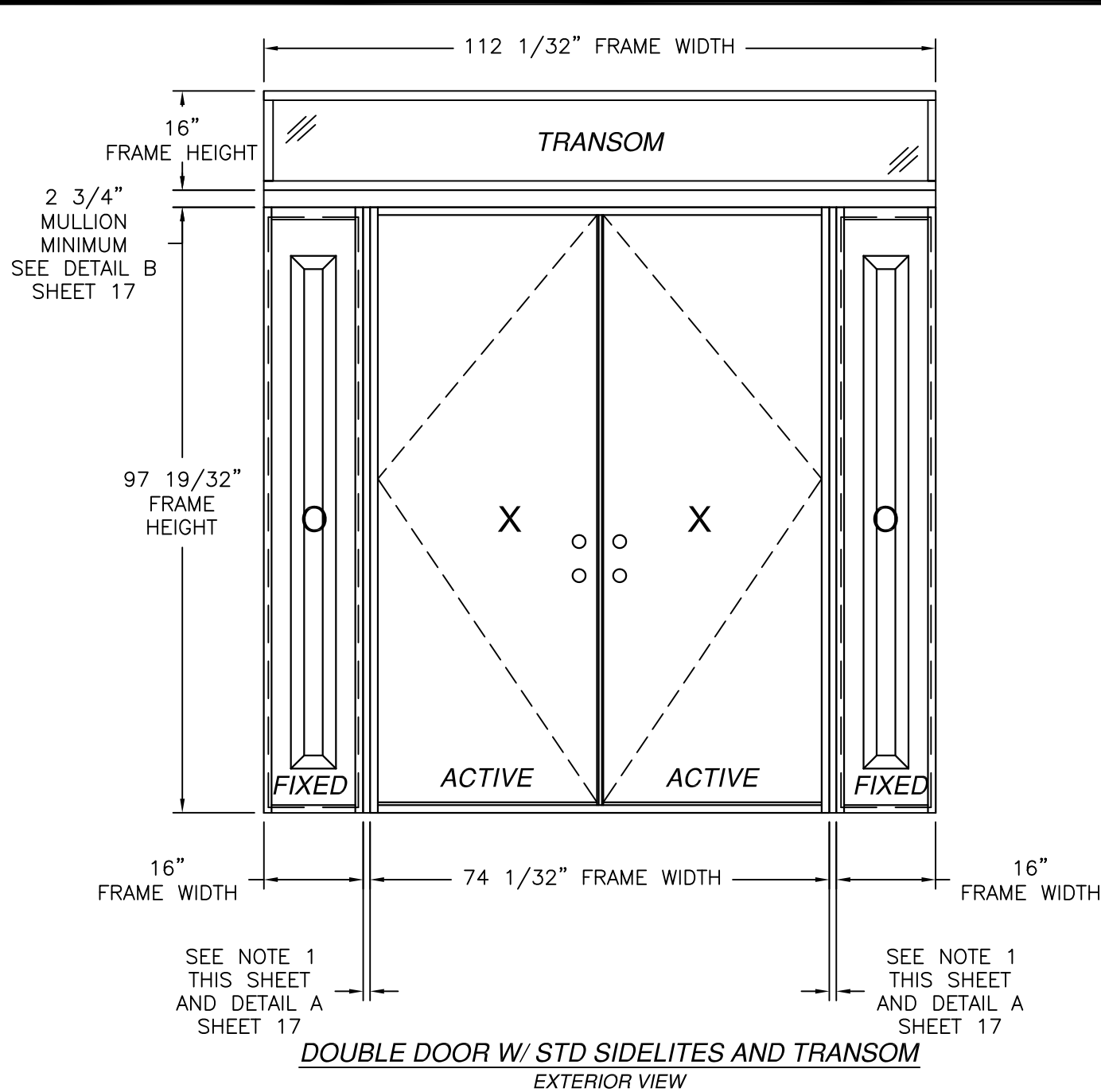
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DOUBLE DOOR W/ STD SIDELITES AND TRANSOM
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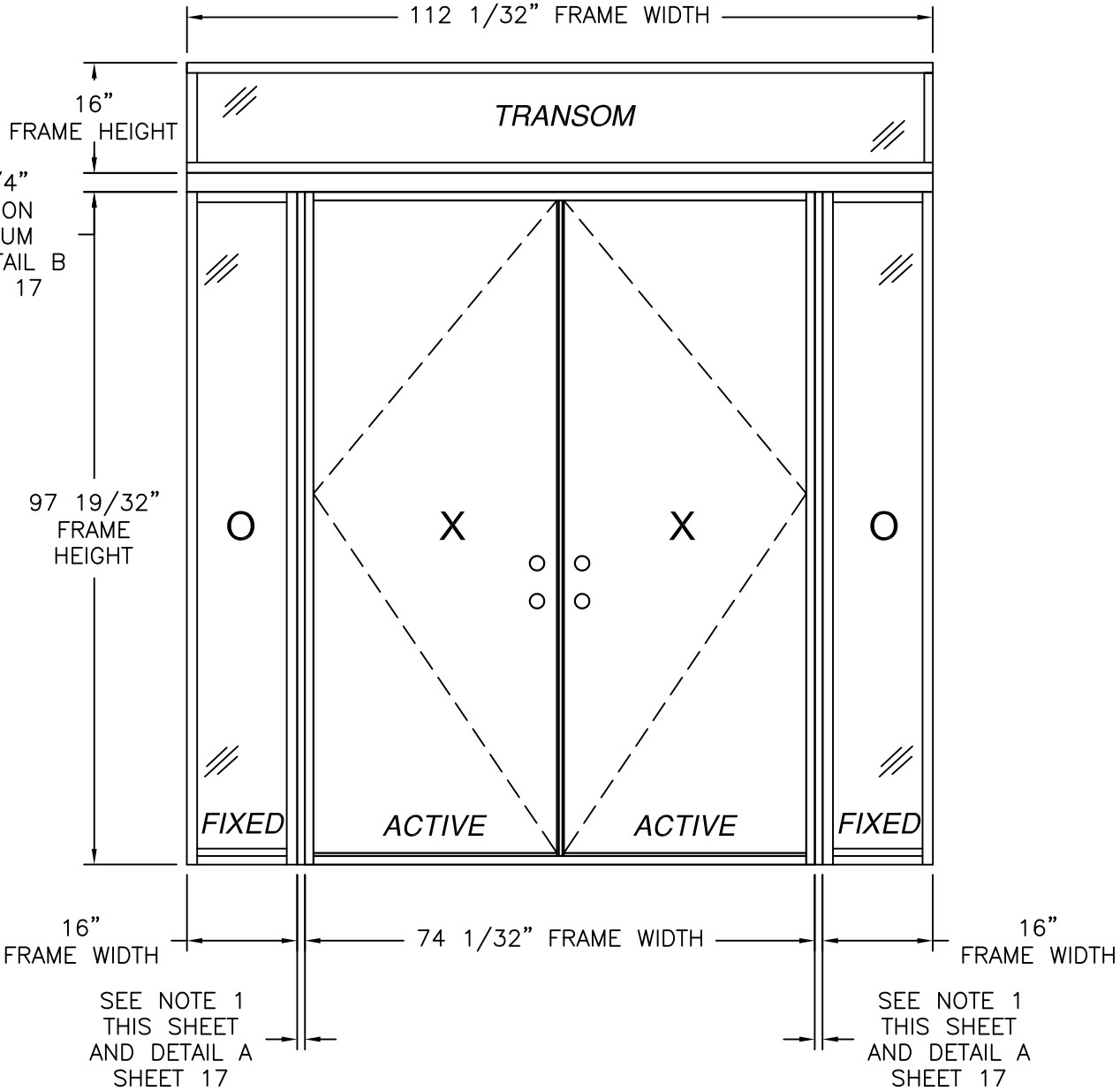
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MISSILE LEVEL D, WIND ZONE 3

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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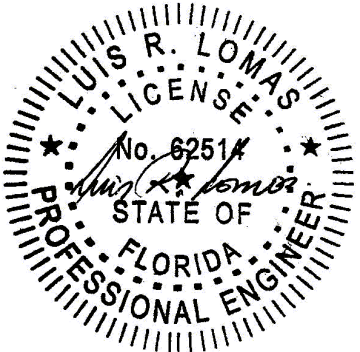
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DOUBLE DOOR W/ DIRECT SET SIDELITES AND TRANSOM
EXTERIOR VIEW

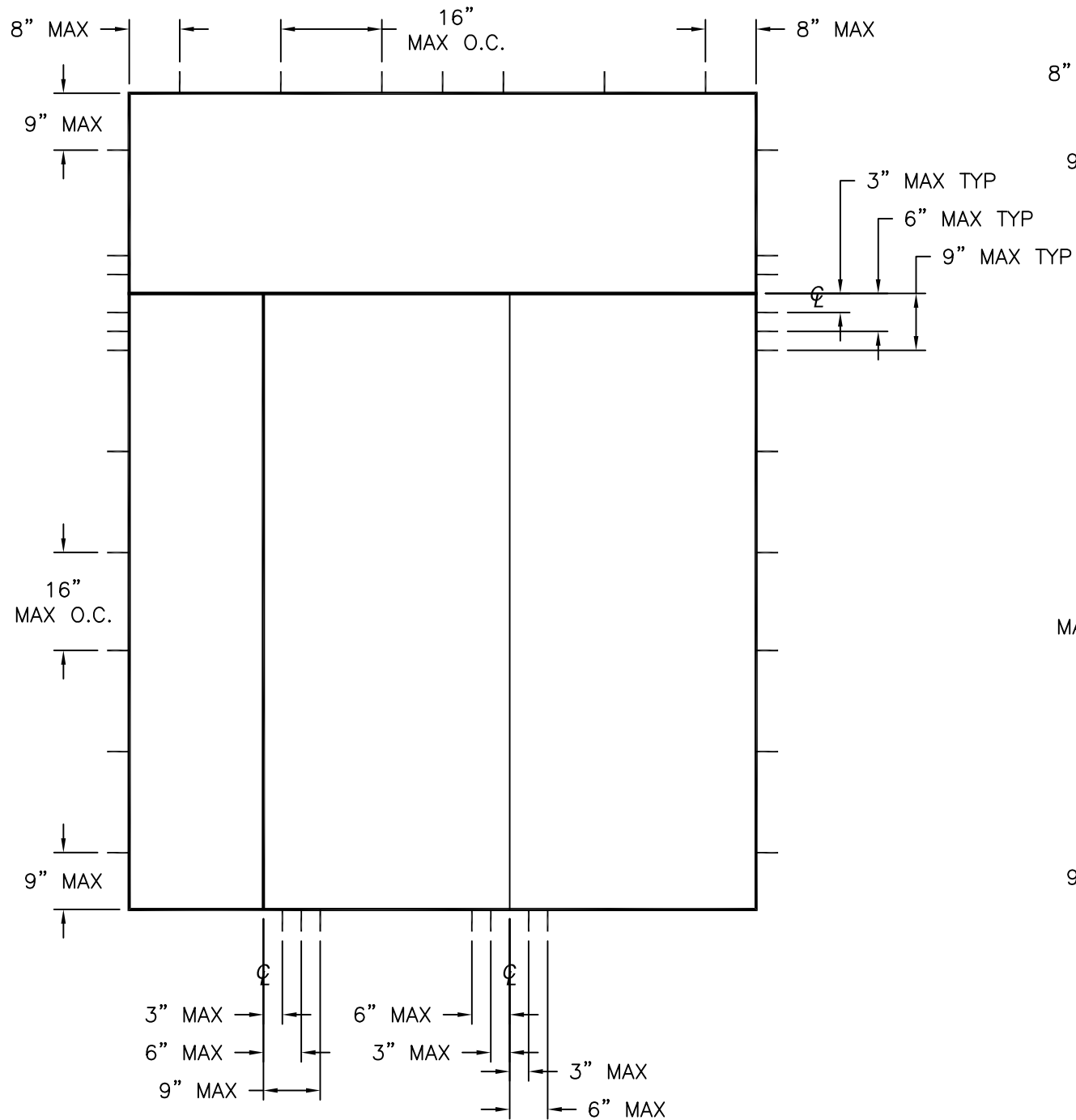
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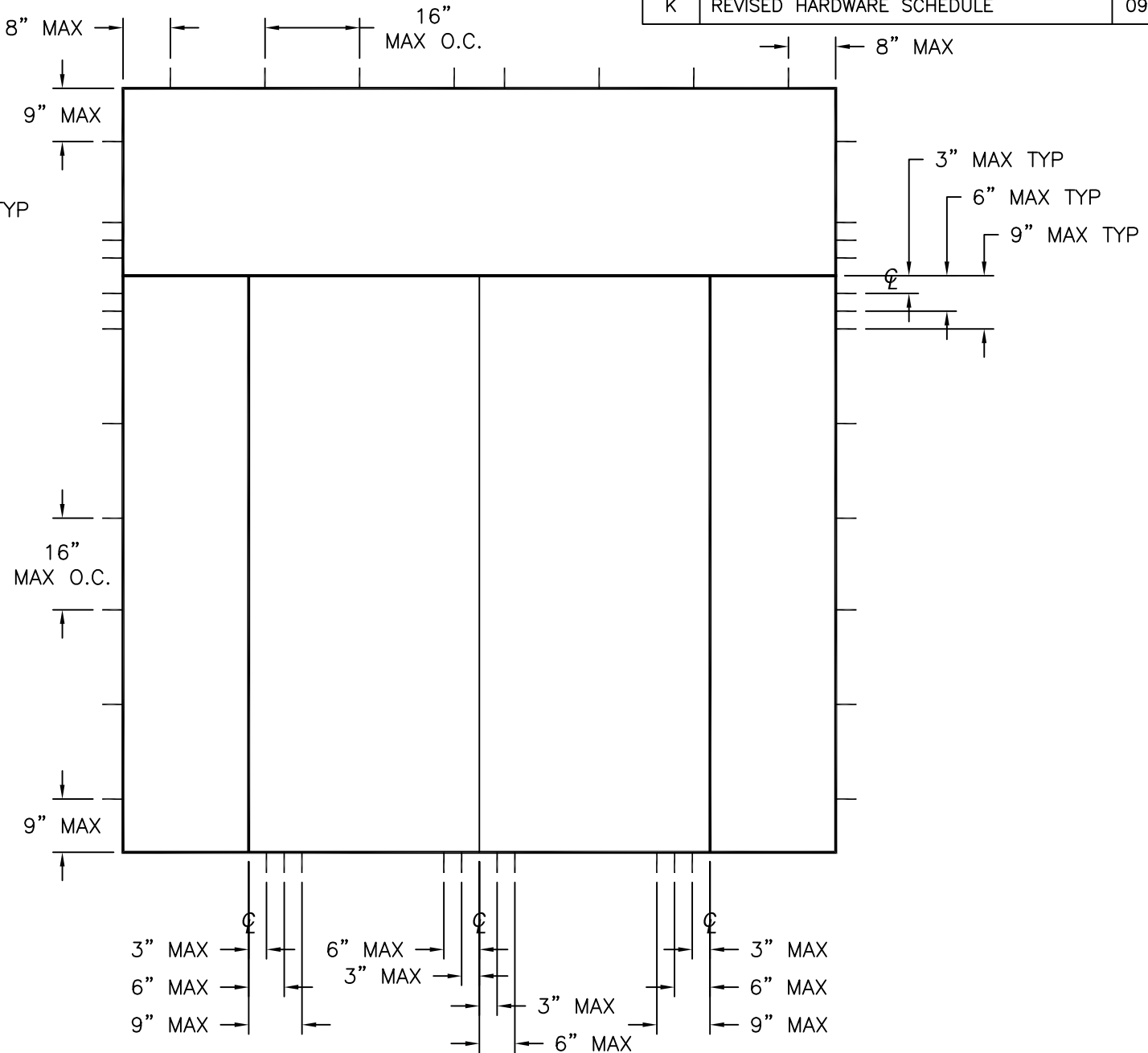


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DOUBLE DOOR W/SIDELITE AND TRANSOM
ANCHORING LAYOUT

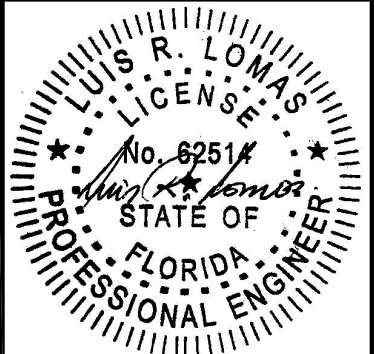


DOUBLE DOOR W/SIDELITES & TRANSOM
ANCHORING LAYOUT

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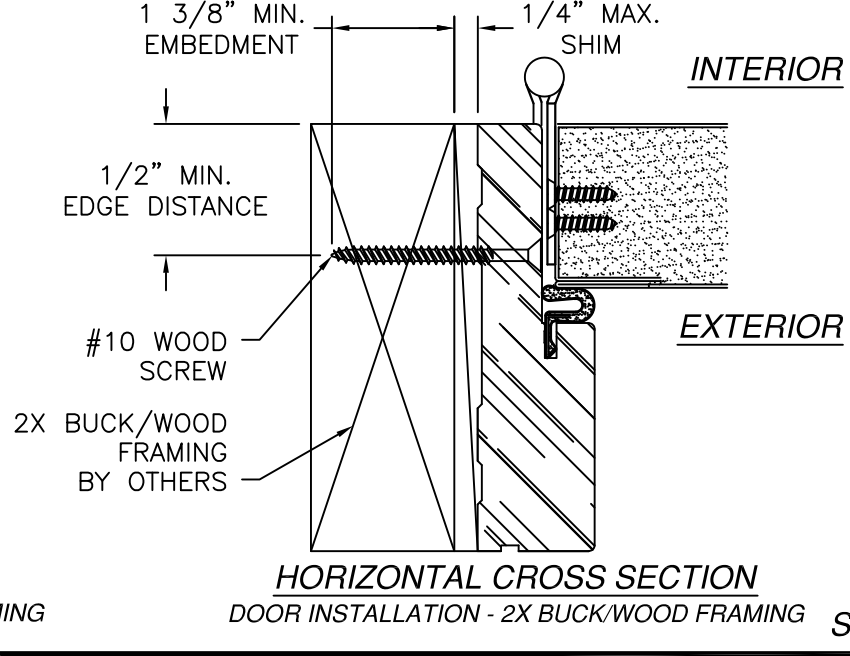
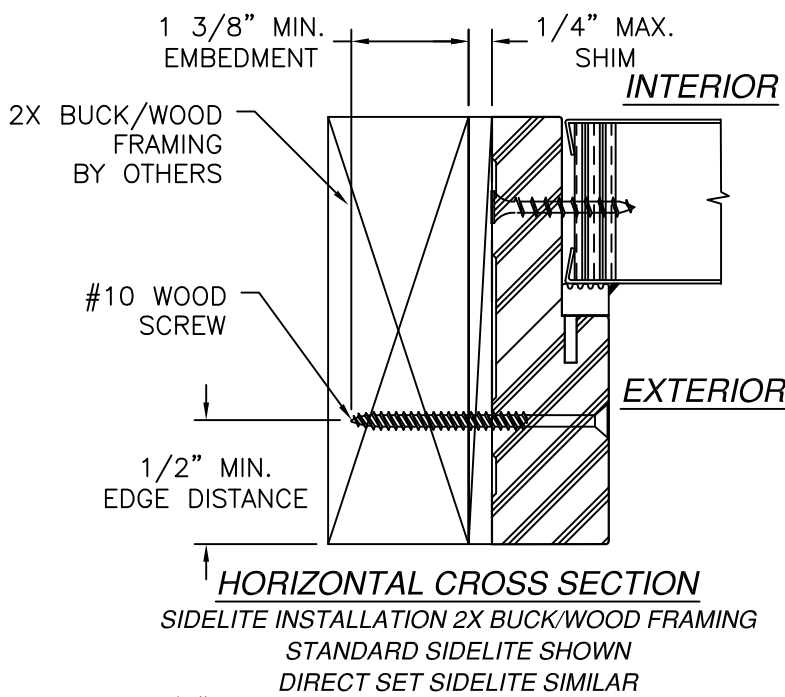
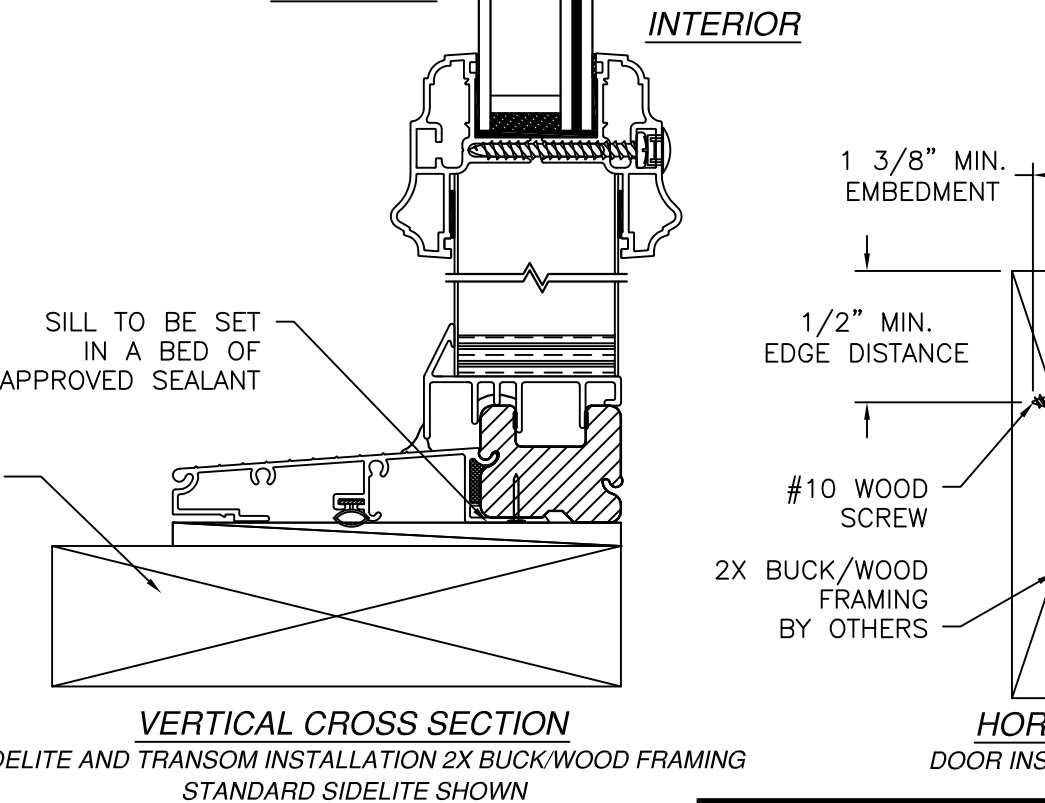
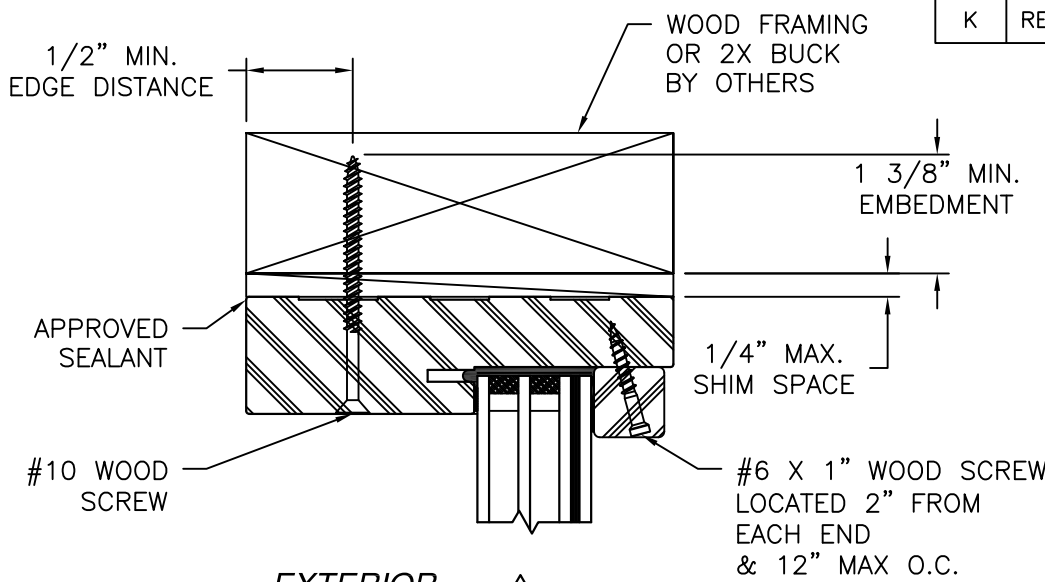
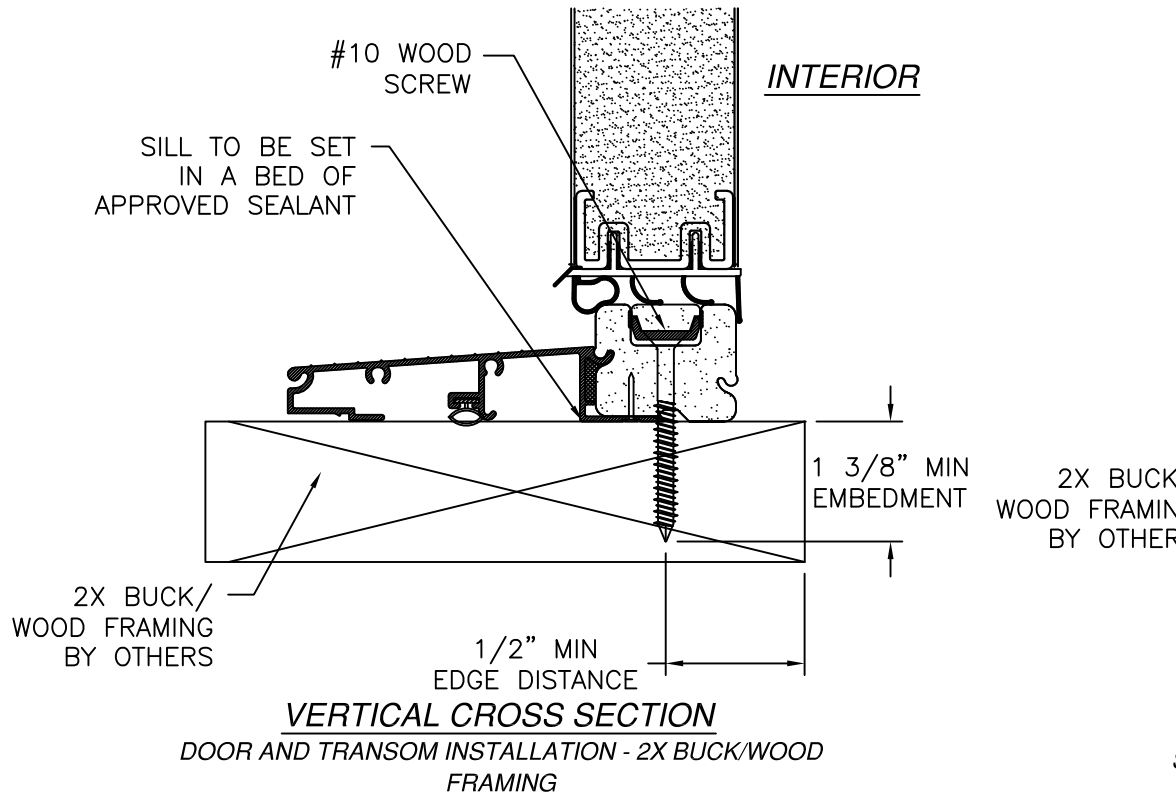
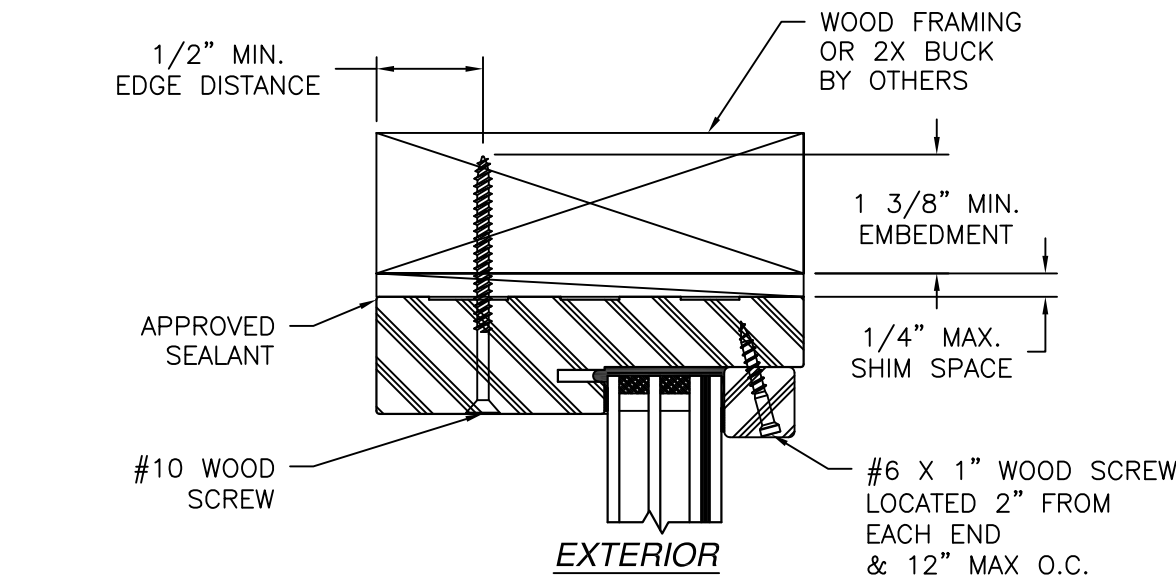
Anchors and anchor connectors corrosion resistance chart		
Exposure	Distance from coastal shoreline	
	0' up to 300'	>300' up to 3000'
Exterior - partially sheltered	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Exterior - open exposed	304 or A305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

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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM – IMPACT ANCHORING LAYOUTS		
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- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

PROVIA, LLC.

2150 STATE ROUTE 39 WEST

SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR

W/SIDELITES & TRANSOM – IMPACT

INSTALLATION DETAILS

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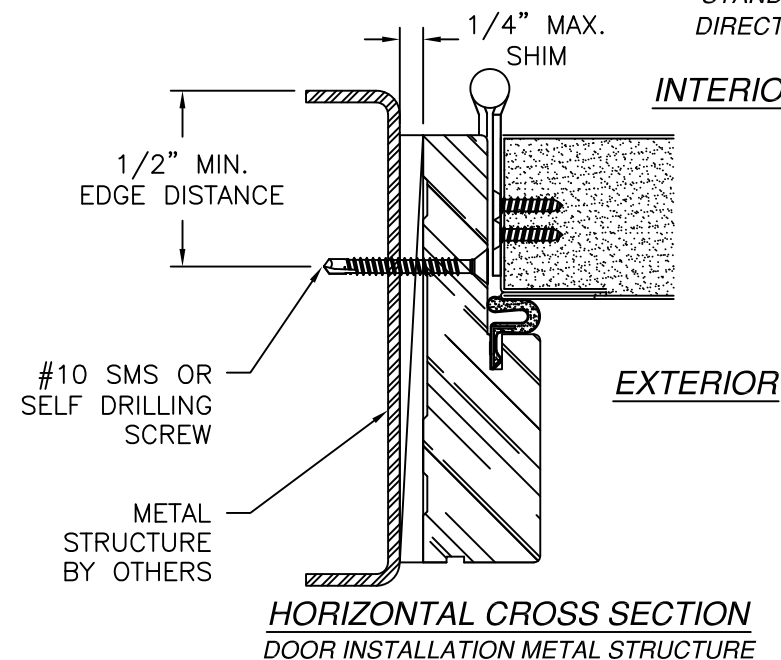
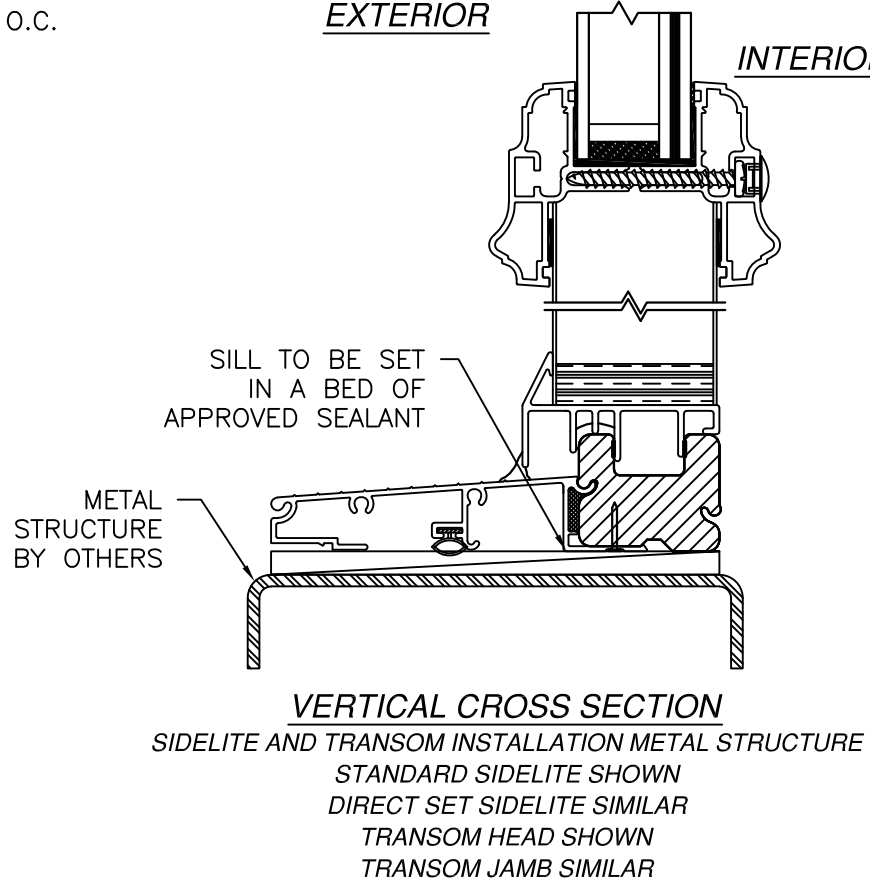
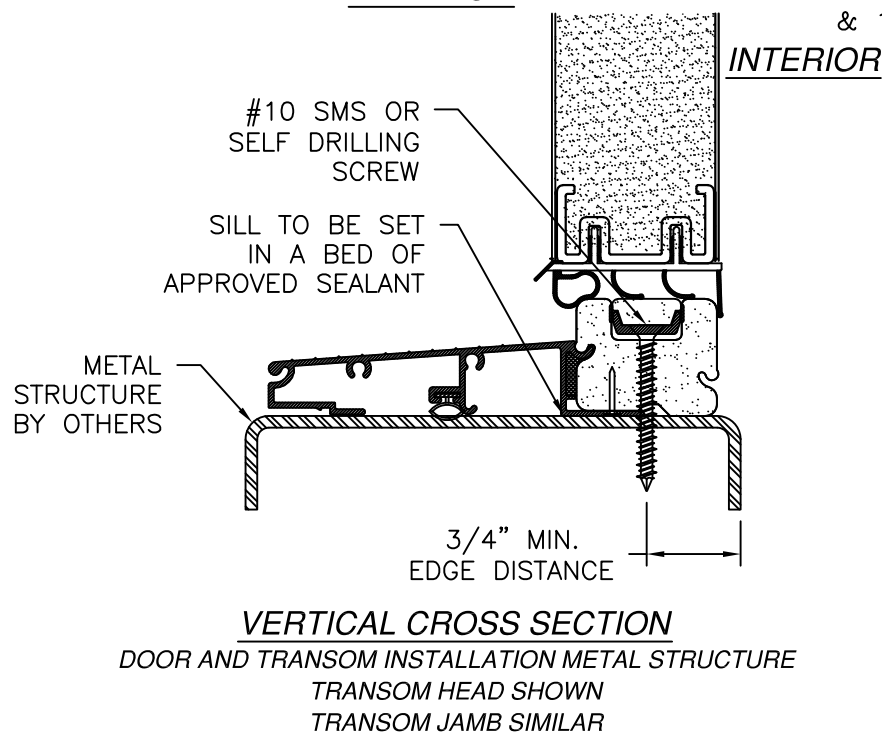
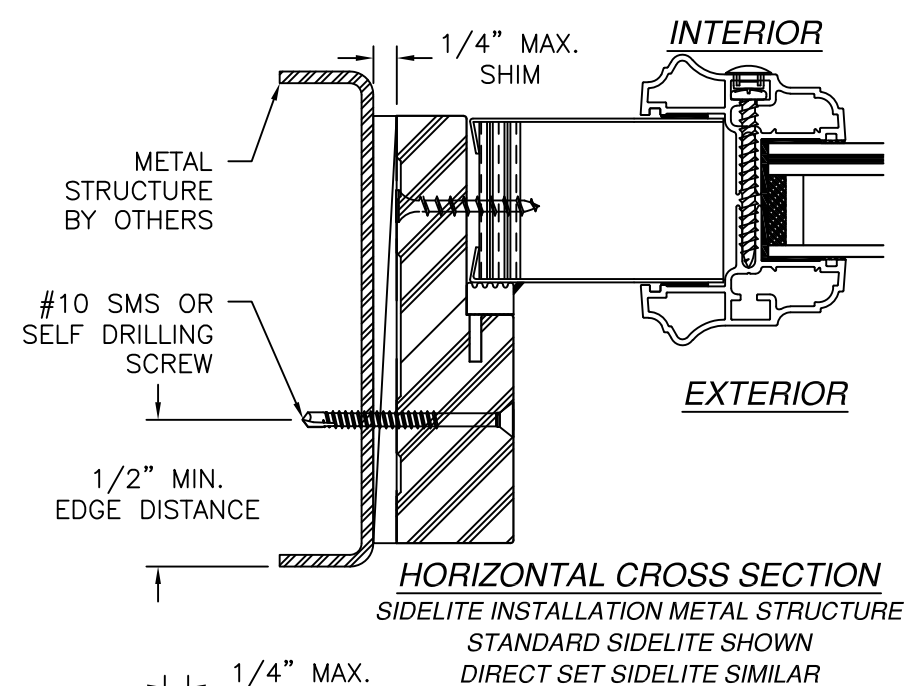
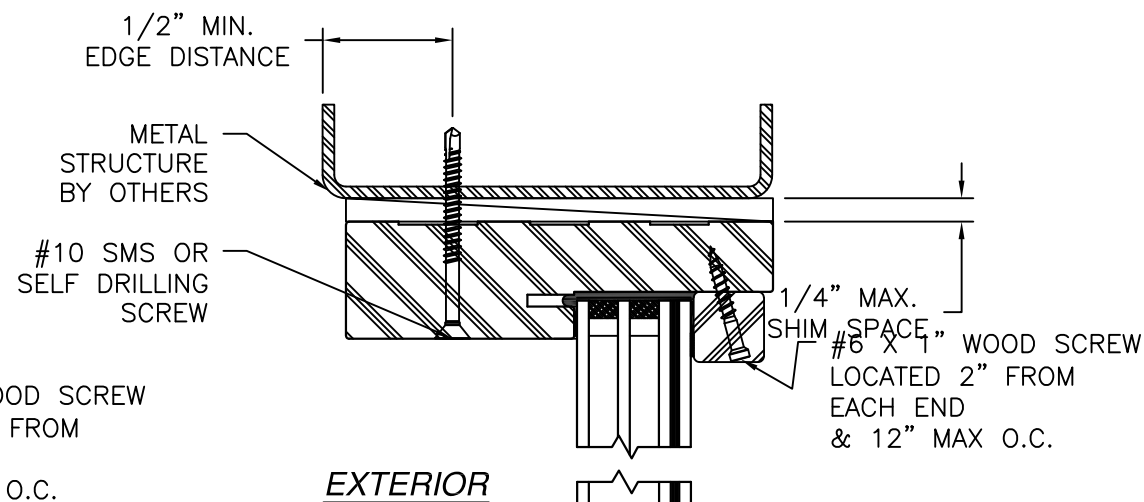
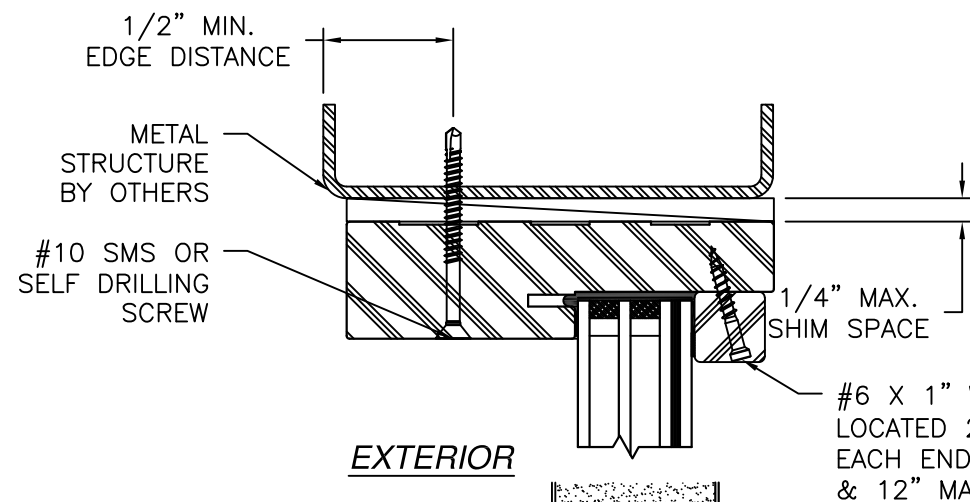
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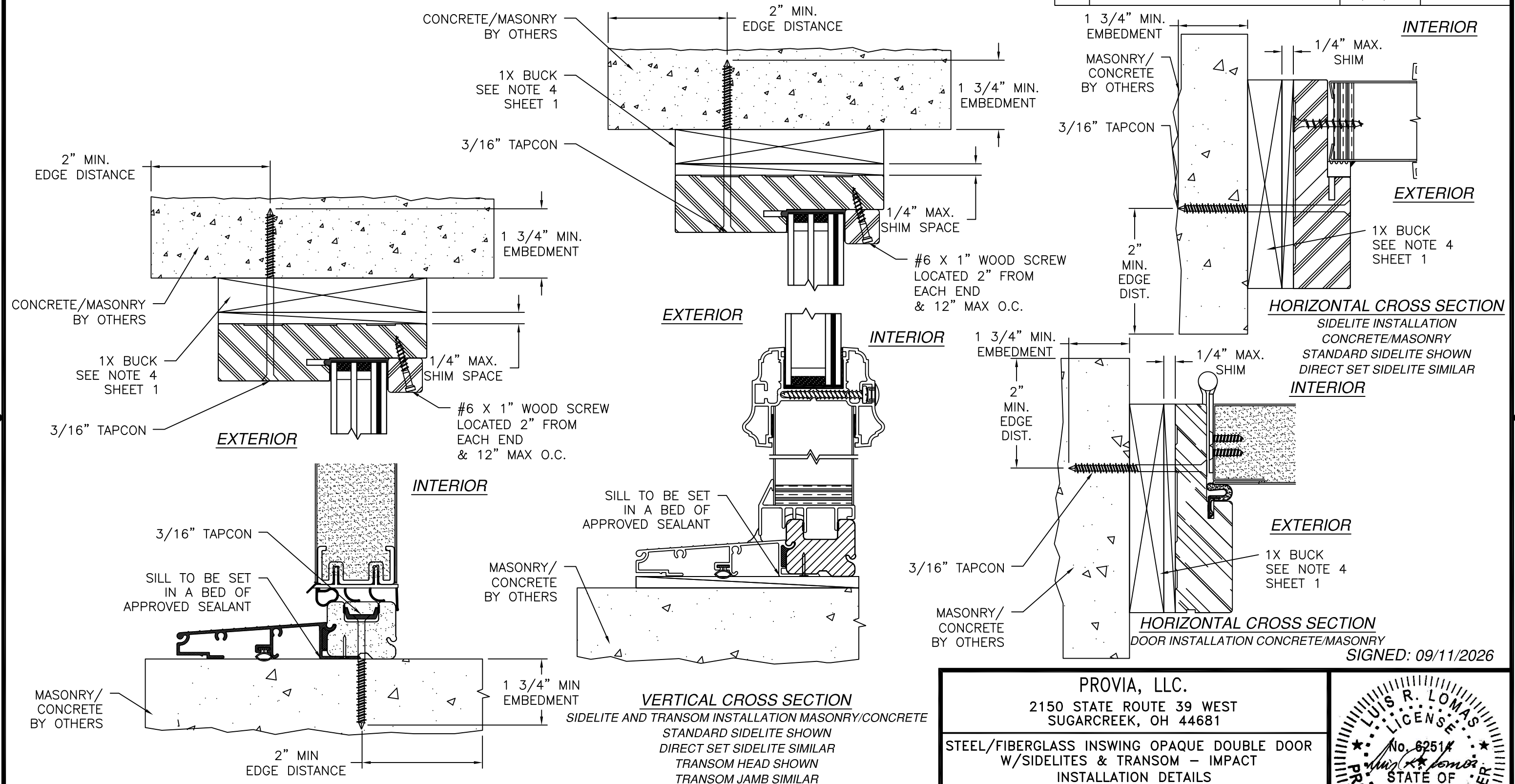
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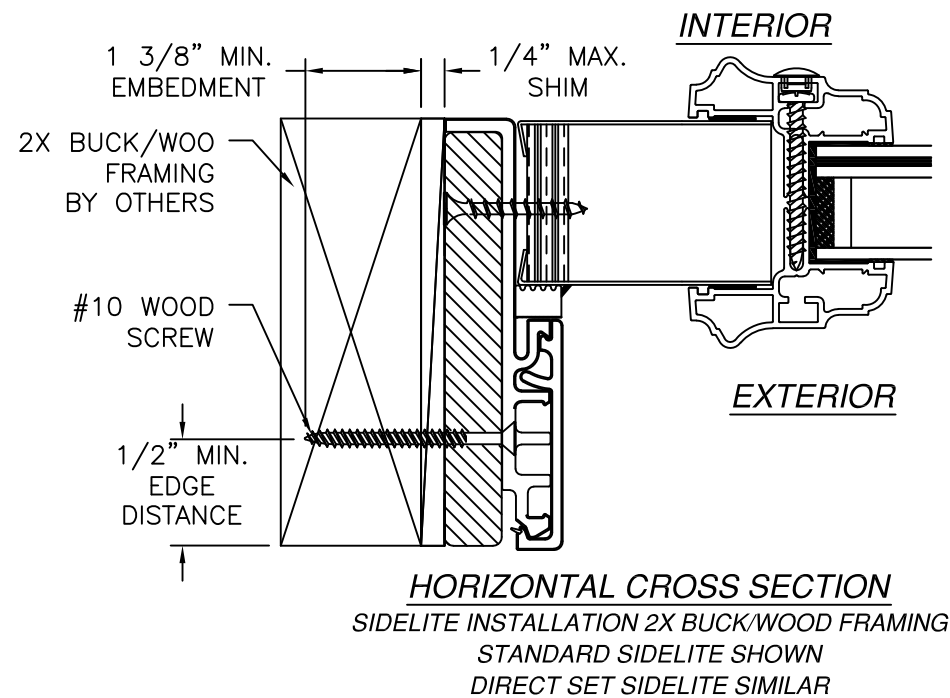
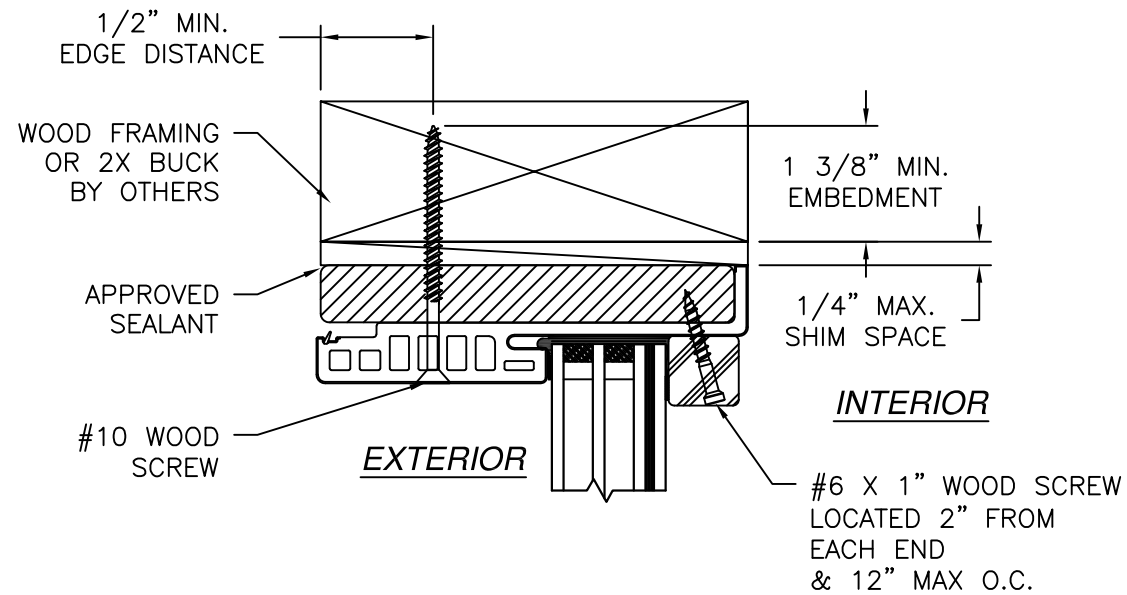
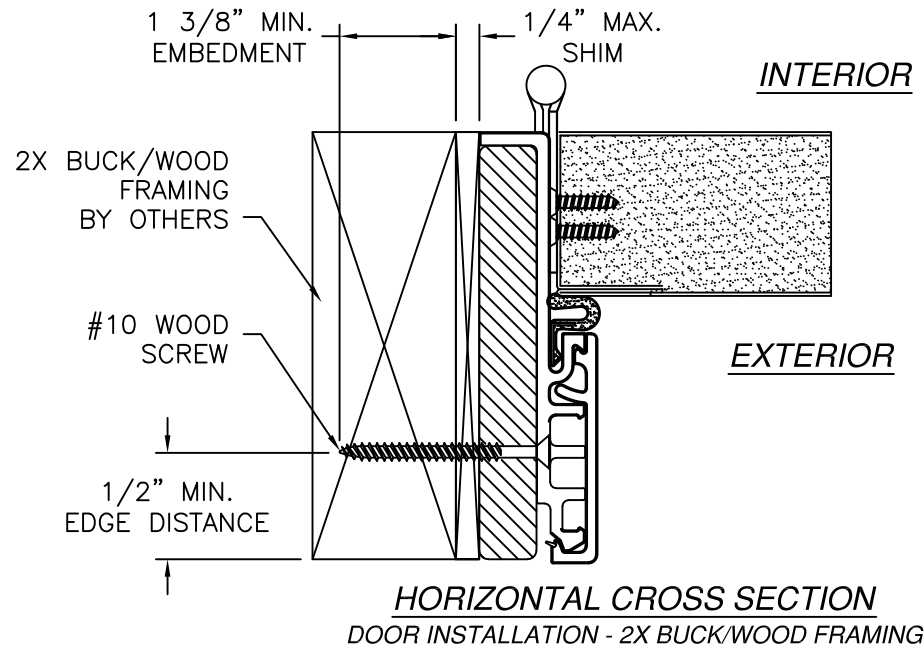
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INSTALLATION DETAILS W/FUSION FRAME

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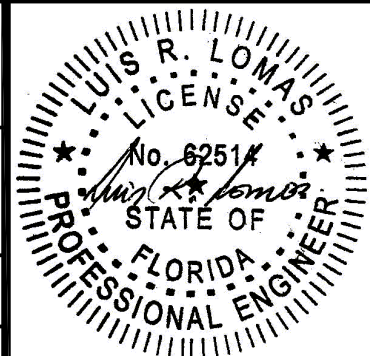
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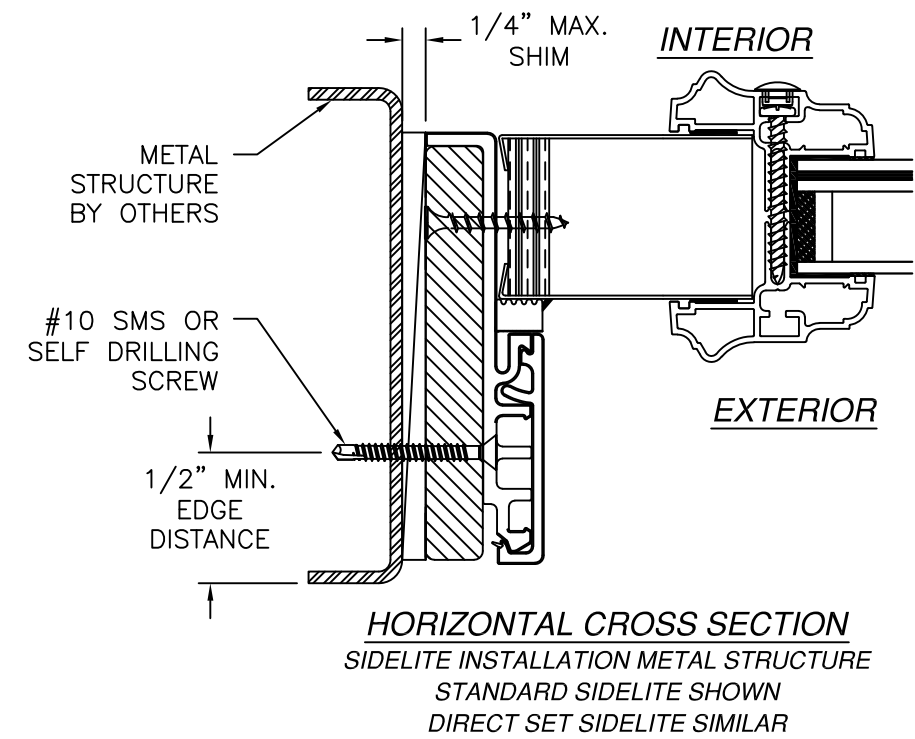
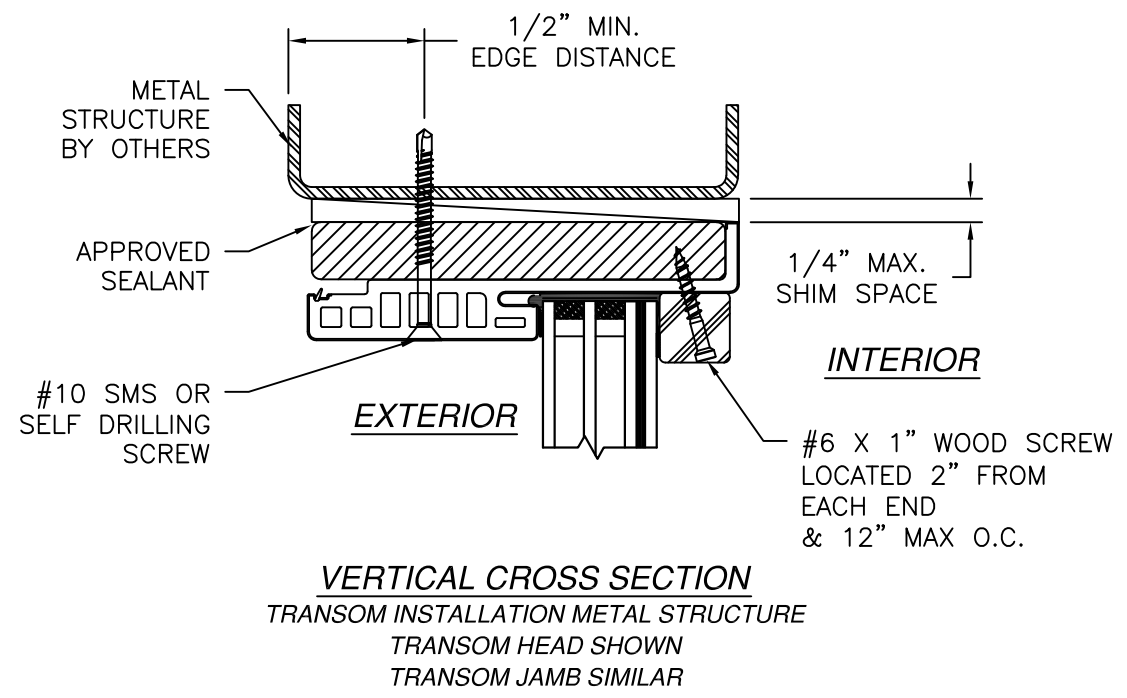
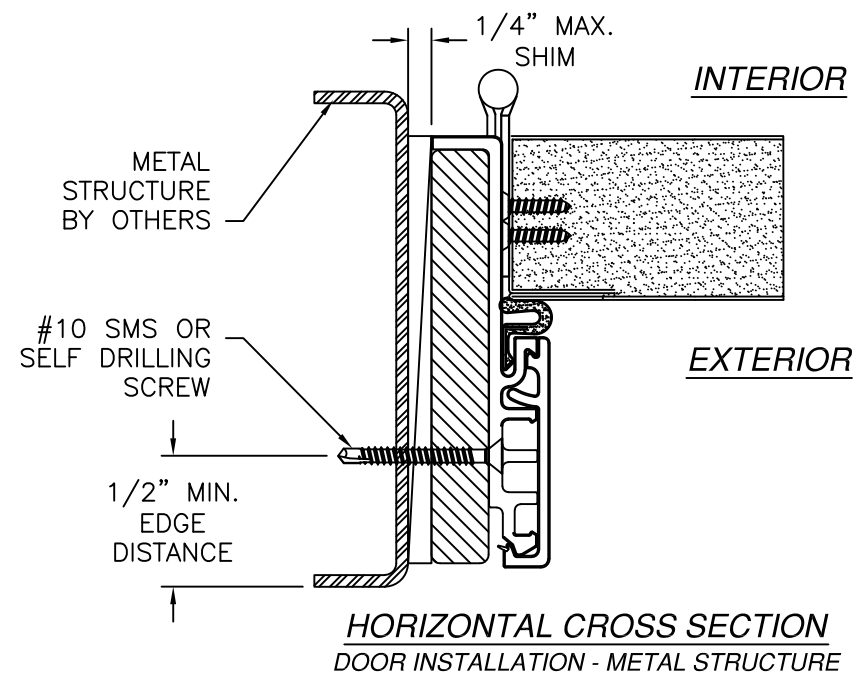
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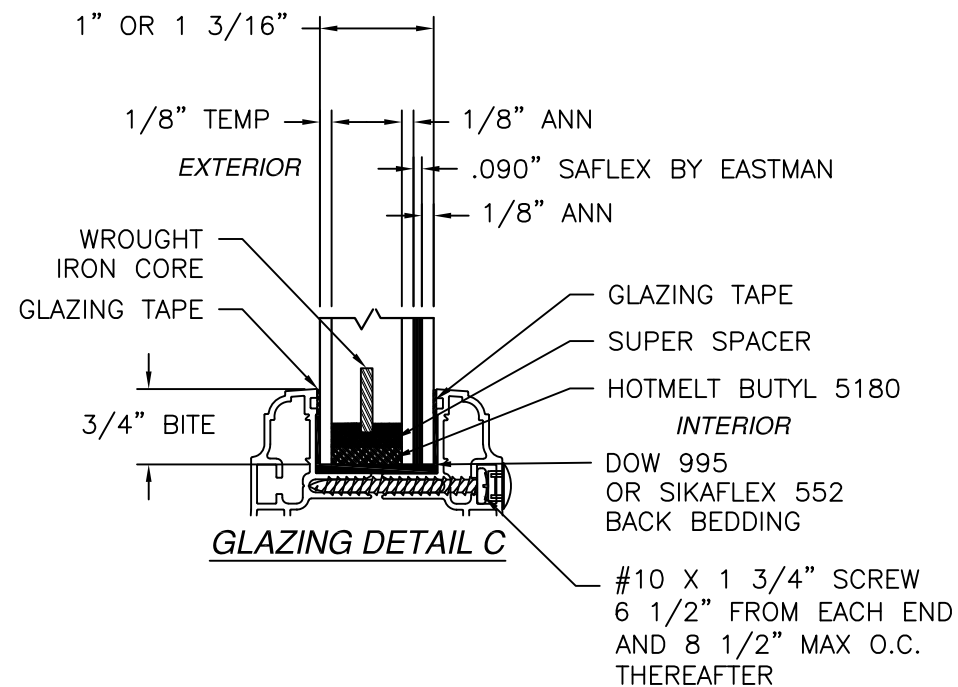
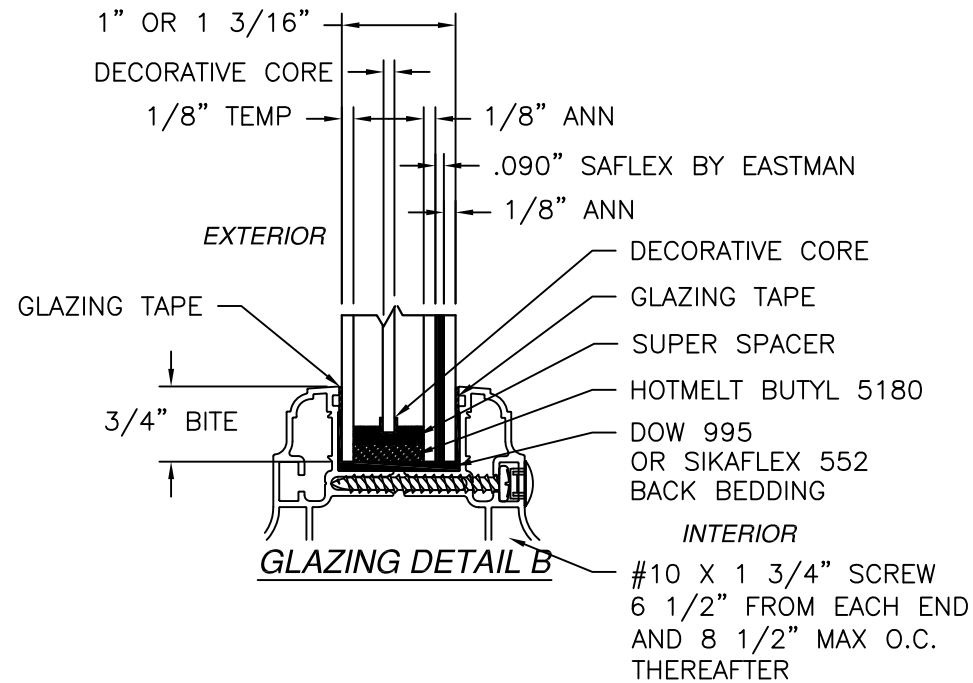
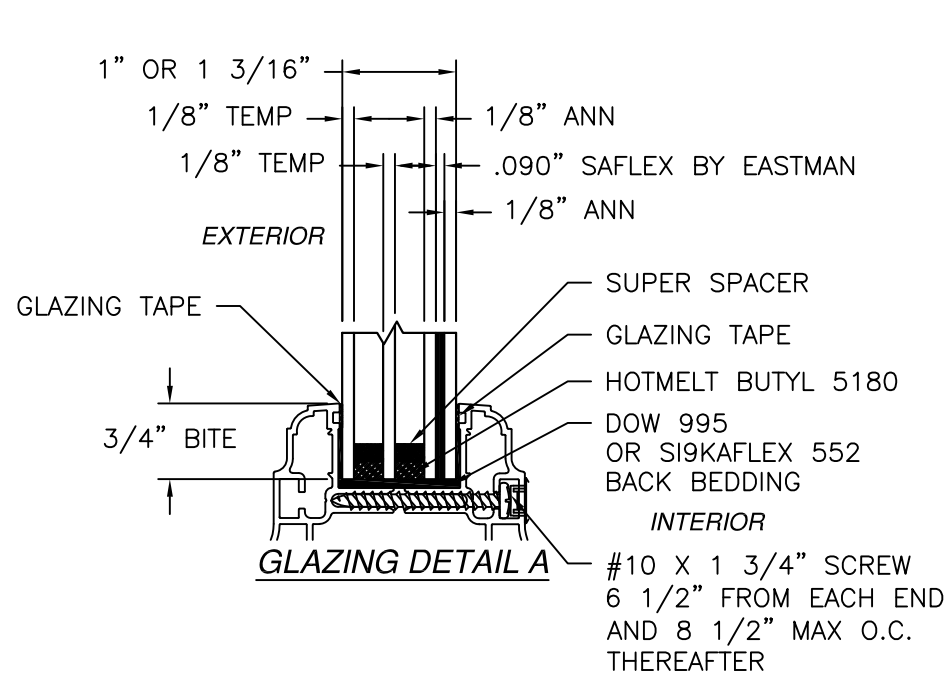
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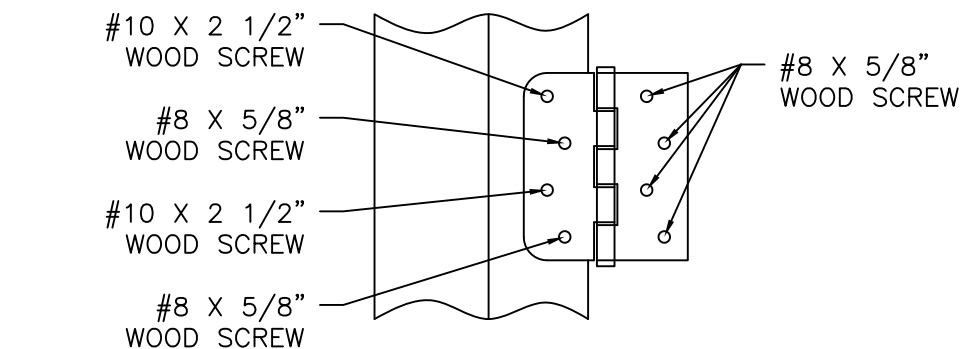
SIGNED: 09/11/2026

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT GLAZING DETAILS		
DRAWN: J.L.	DWG NO. 08-02040	REV K
SCALE NTS	DATE 04/23/13	SHEET 12 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

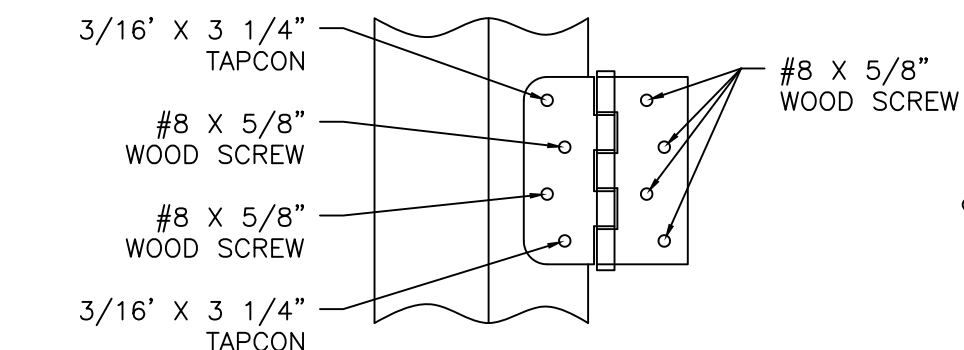
Luis R. Lomas P.E.
FL No.: 62514

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

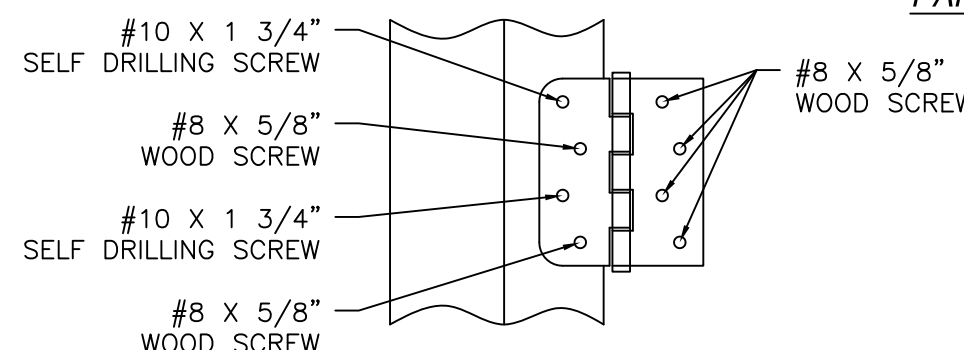
APPROVED SIDELITE SLABS



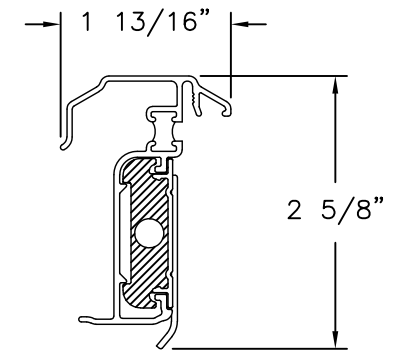
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2X BUCK/WOOD FRAMING



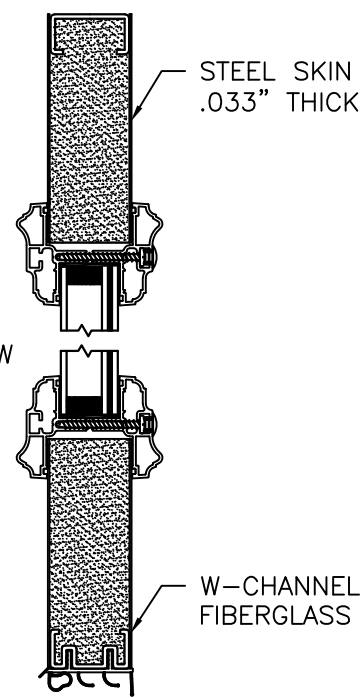
HINGE INSTALLATION DETAIL
MASONRY/CONCRETE



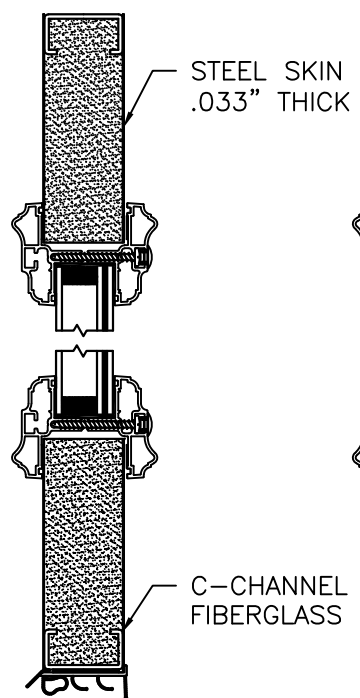
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METAL STRUCTURE



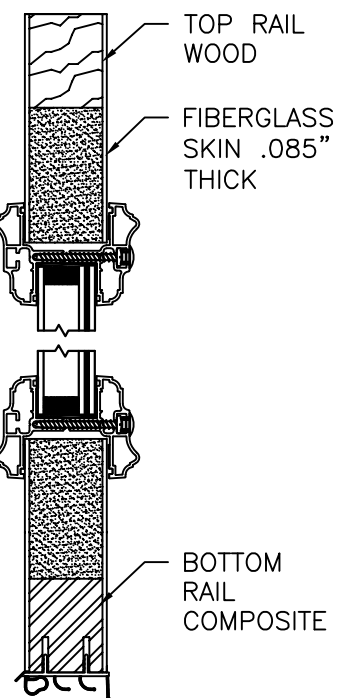
HURRICANE ASTRAGAL DETAIL



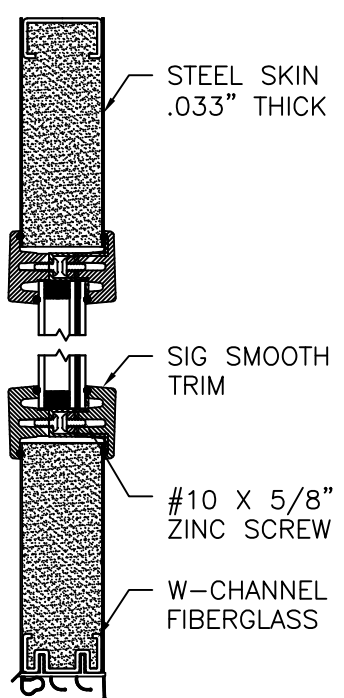
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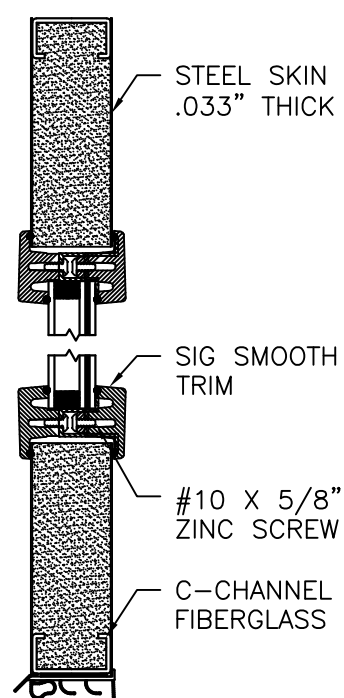
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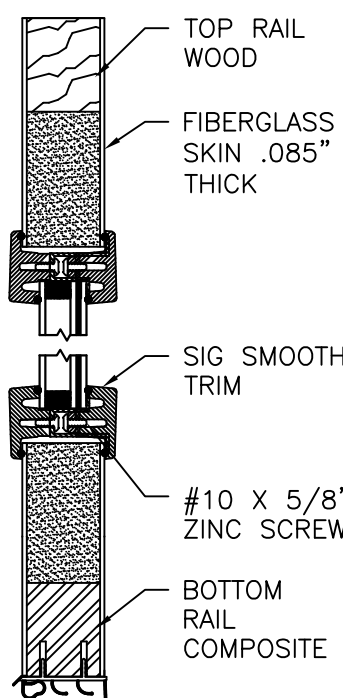
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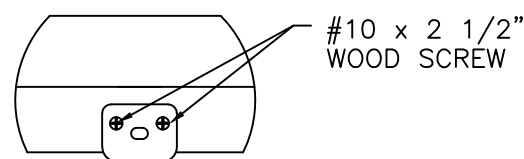
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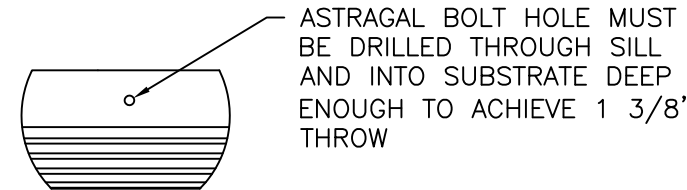
PANEL OPTION 5



PANEL OPTION 6



ASTRAGAL HEAD STRIKE DETAIL
2X BUCK/WOOD FRAMING



ASTRAGAL SILL DETAIL

SIGNED: 09/11/2026

PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM – IMPACT
COMPONENTS DETAILS

DRAWN: J.L.

DWG NO. 08-02040

REV K

SCALE NTS

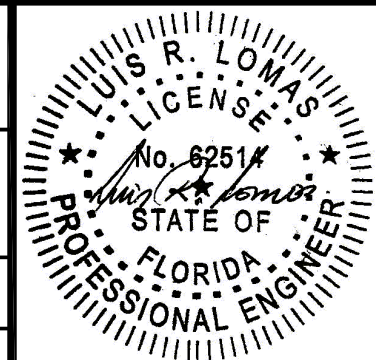
DATE 04/23/13

SHEET 13 OF 18

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

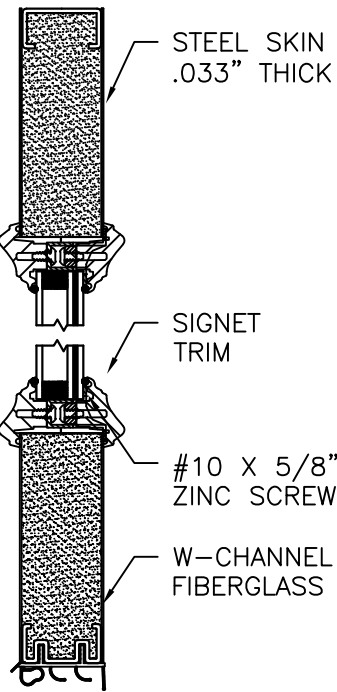
434-688-0609 rllomas@lrlomaspe.com



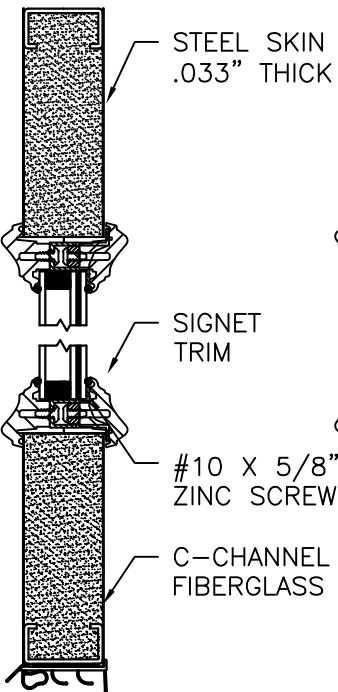
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SIDELITE SLABS

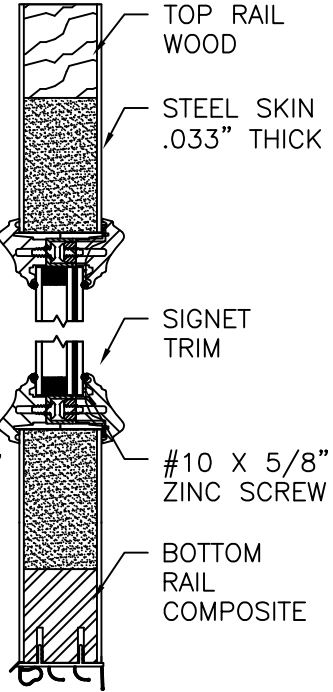
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



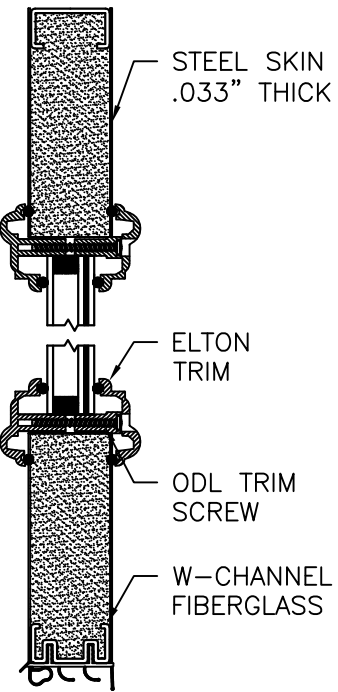
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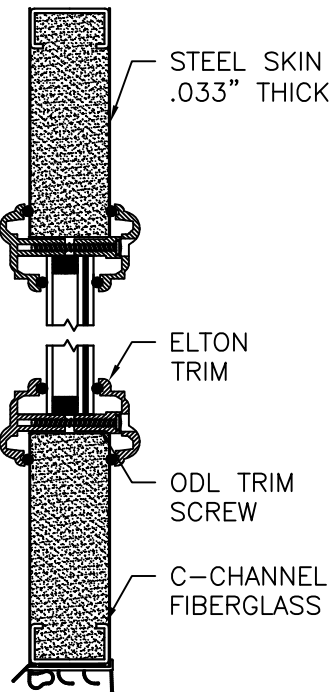
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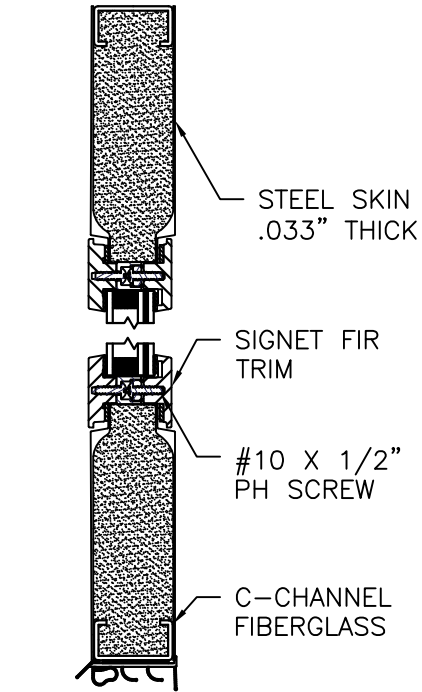
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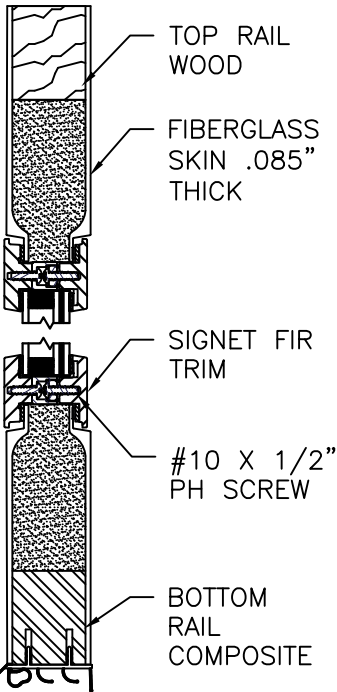
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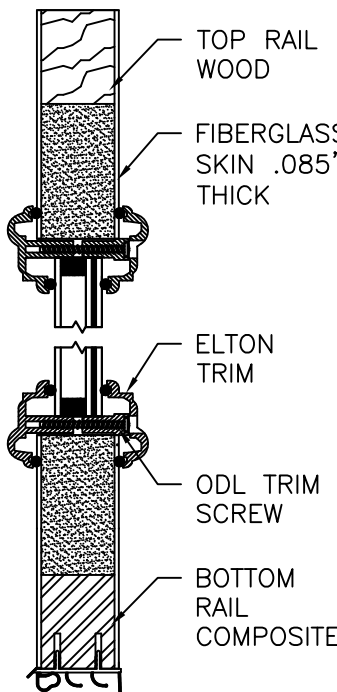
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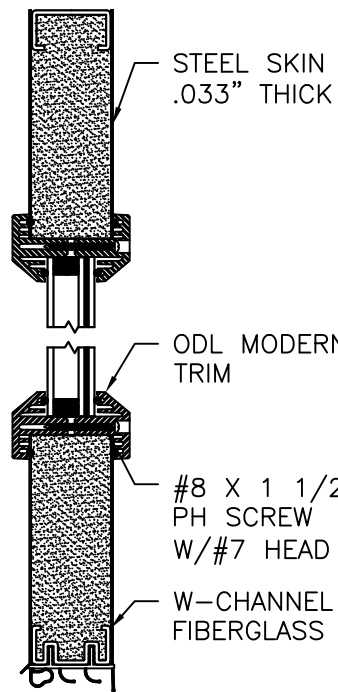
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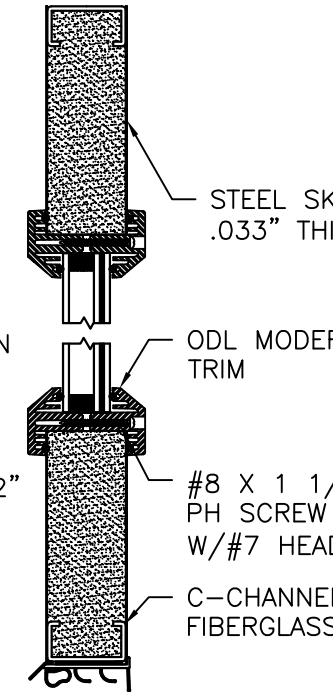
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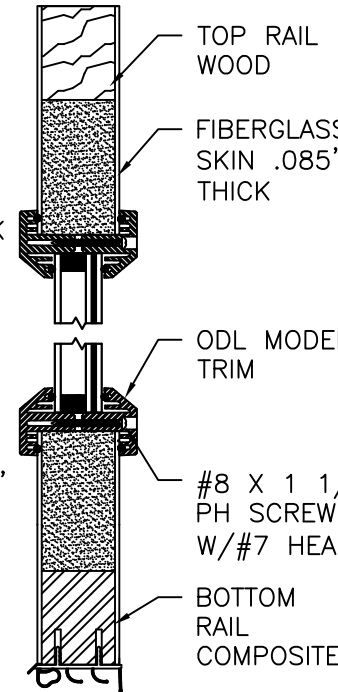
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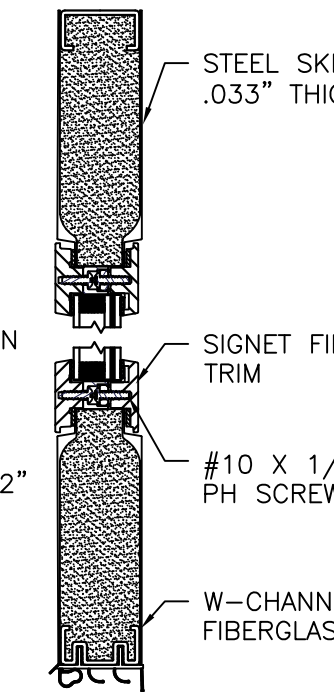
PANEL OPTION 13



PANEL OPTION 14



PANEL OPTION 15



PANEL OPTION 16

SIGNED: 09/11/2026

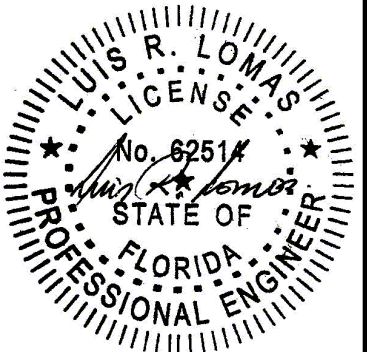
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM - IMPACT
APPROVED SLABS

DRAWN: J.L. DWG NO. 08-02040 REV K

SCALE NTS DATE 04/23/13 SHEET 14 OF 18

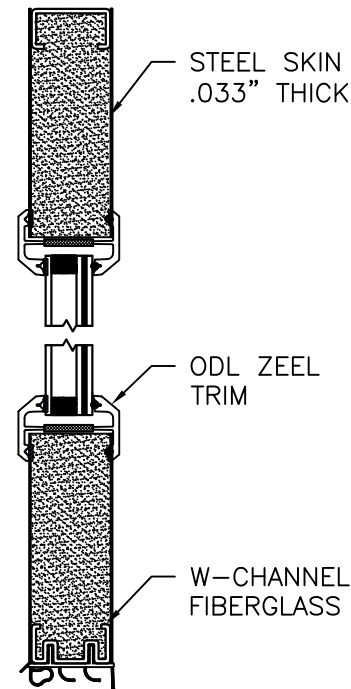
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



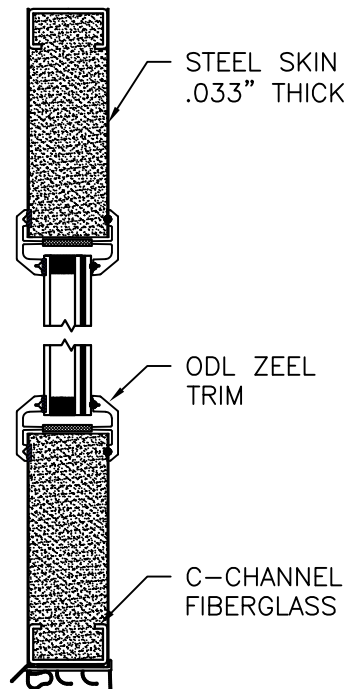
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SIDELITE SLABS

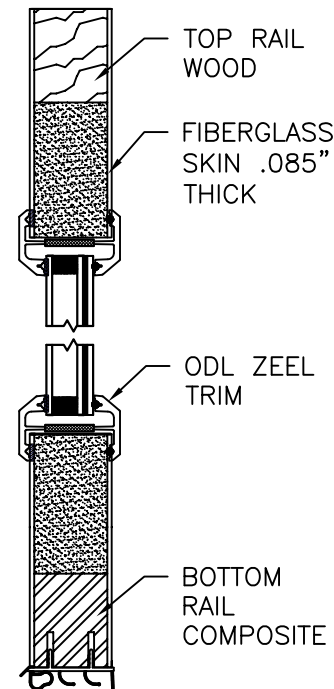
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



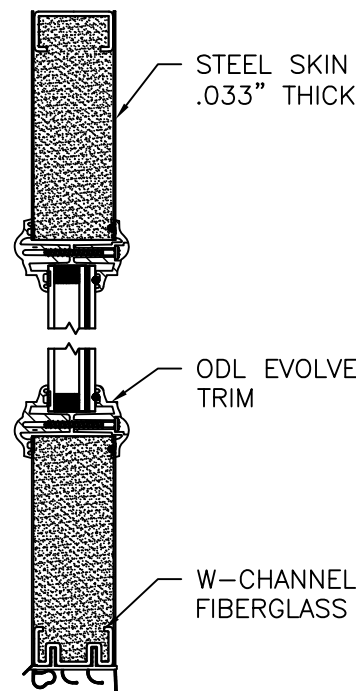
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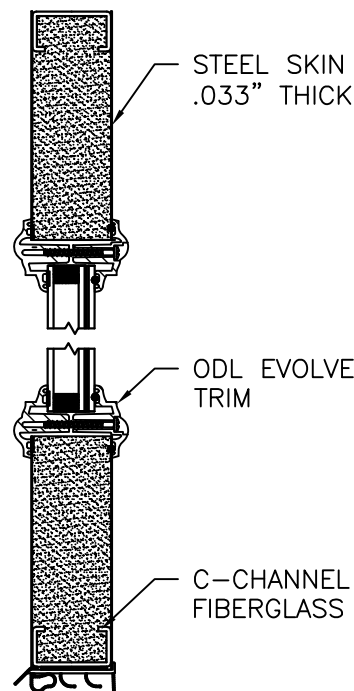
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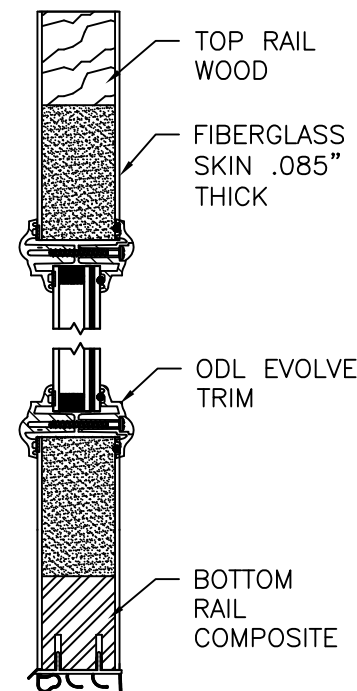
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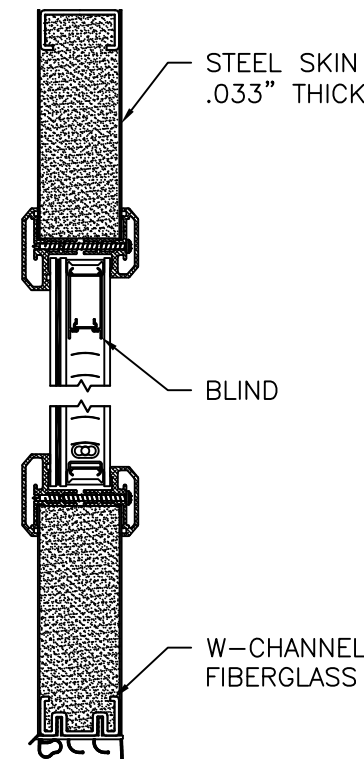
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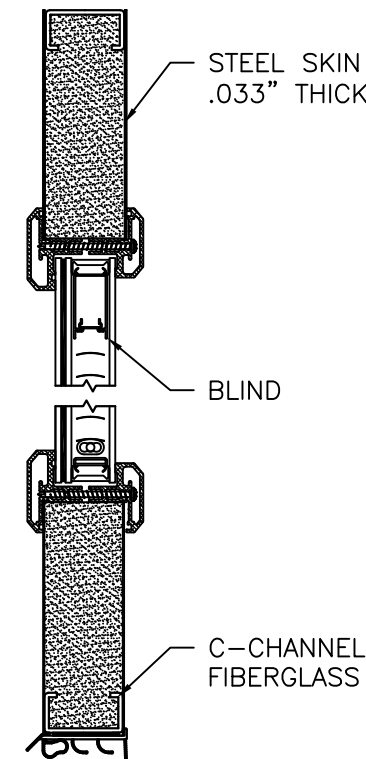
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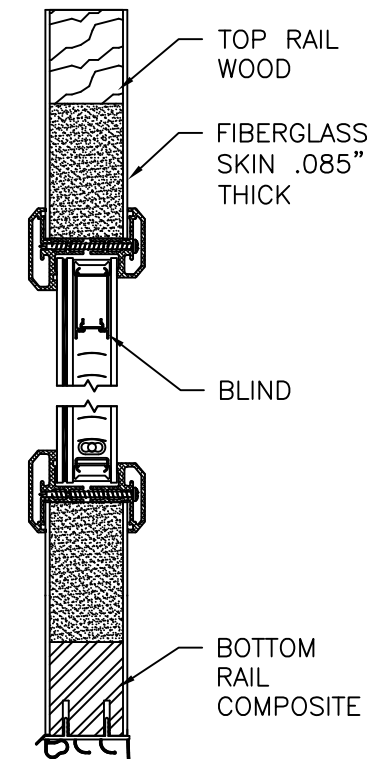
PANEL OPTION 24



PANEL OPTION 25
SEVERE WEATHER DUAL
GLAZED BLINDS



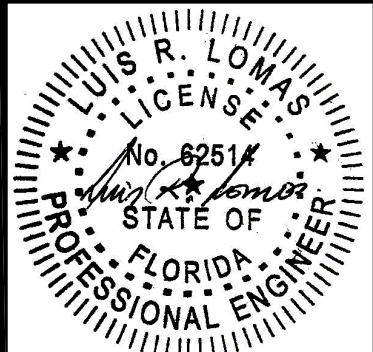
PANEL OPTION 26
SEVERE WEATHER DUAL
GLAZED BLINDS



PANEL OPTION 27
SEVERE WEATHER DUAL
GLAZED BLINDS

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT APPROVED SLABS		
DRAWN: J.L.	DWG NO. 08-02040	REV K
SCALE NTS	DATE 04/23/13	SHEET 15 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

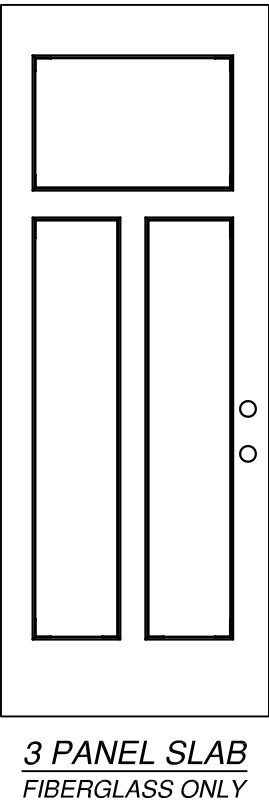
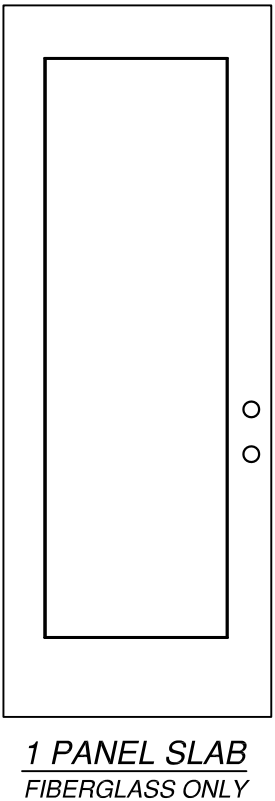
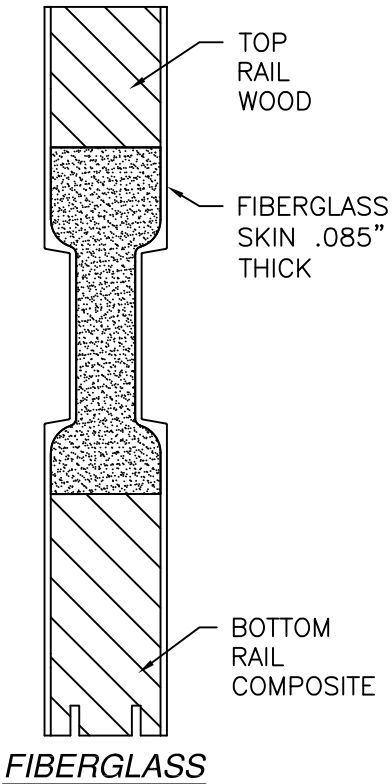
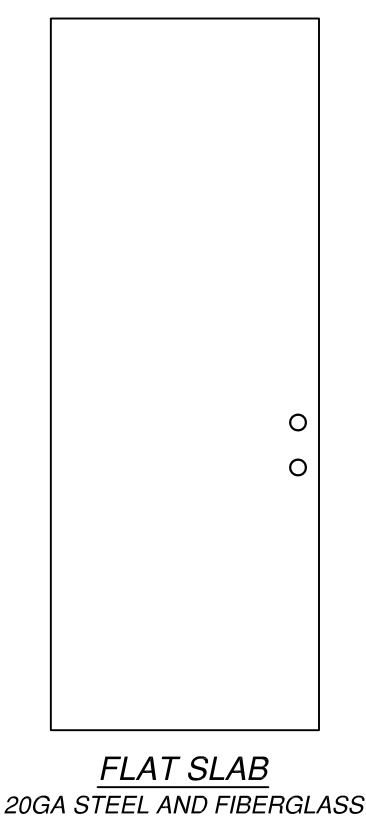
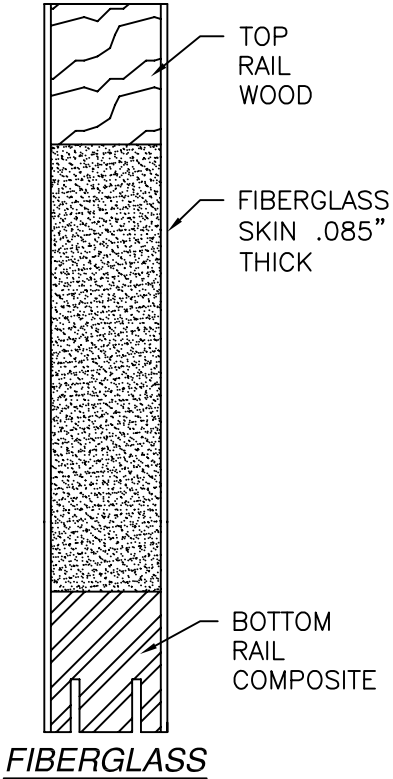
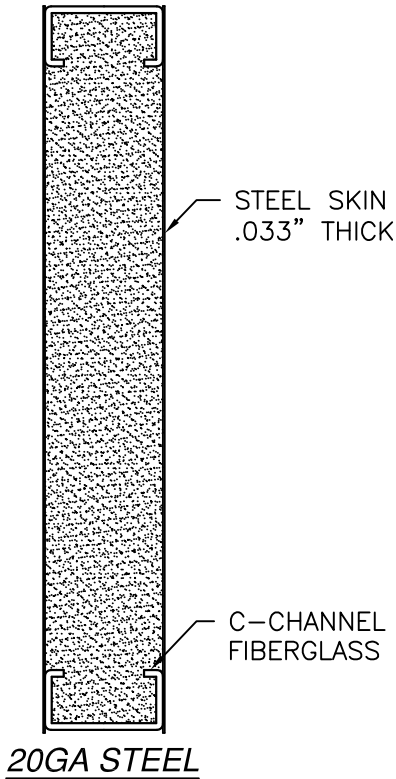
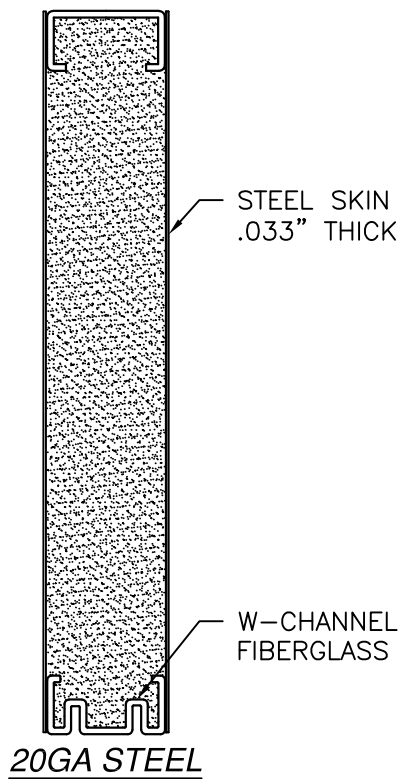
SIGNED: 09/11/2026



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

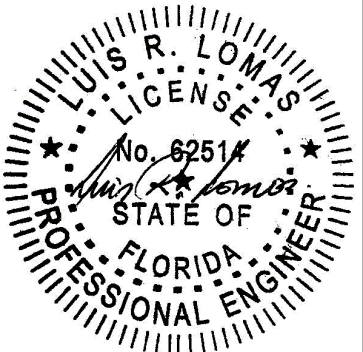
APPROVED DOOR SLABS AND CROSS SECTIONS

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

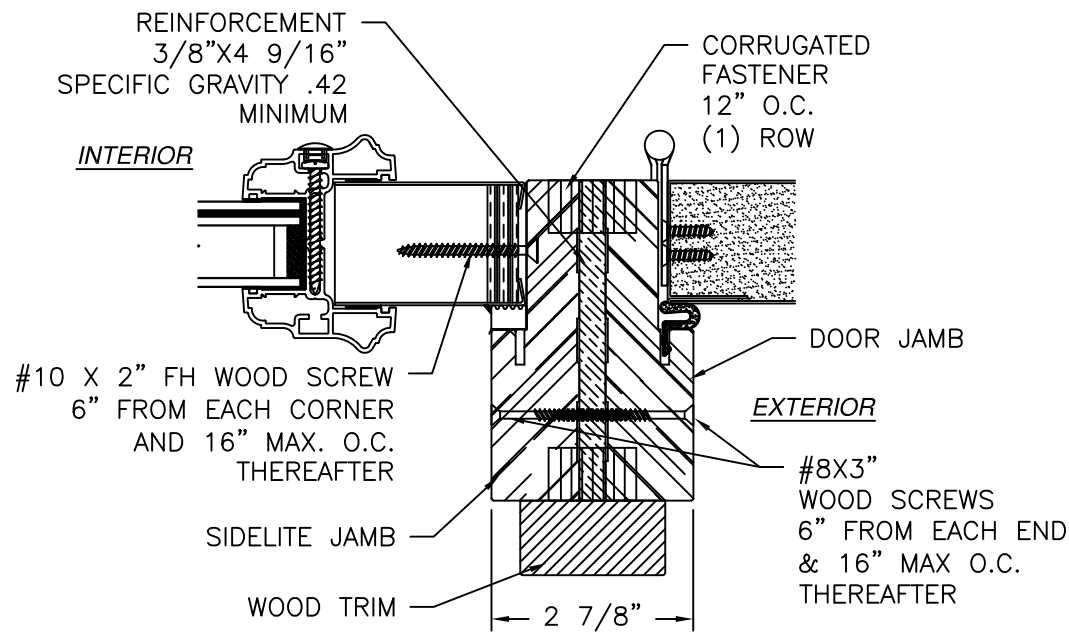


PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM – IMPACT APPROVED SLABS		
DRAWN: J.L.	DWG NO. 08-02040	REV K
SCALE NTS	DATE 04/23/13	SHEET 16 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

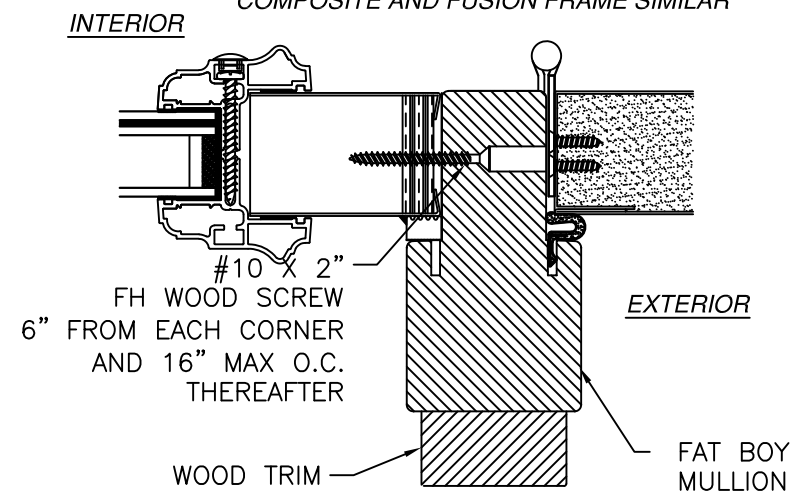
SIGNED: 09/11/2026



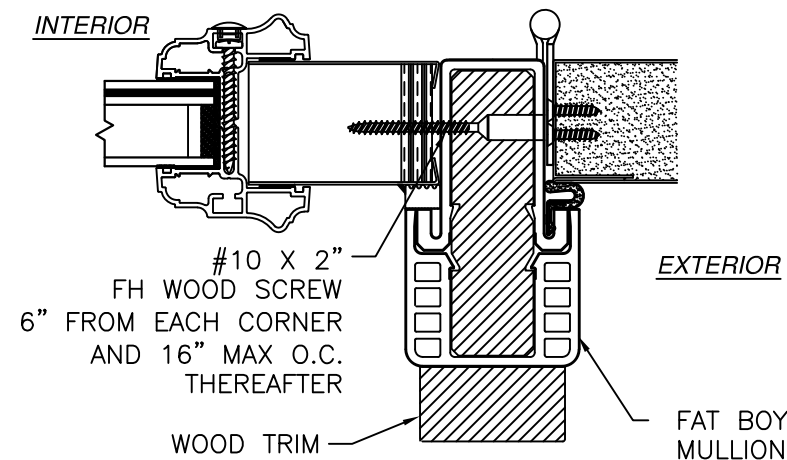
Luis R. Lomas P.E.
FL No.: 62514



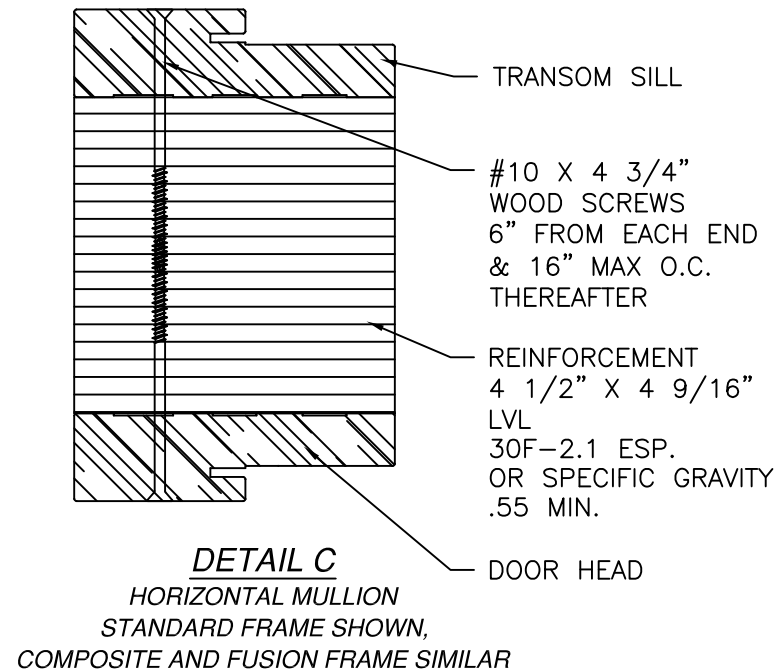
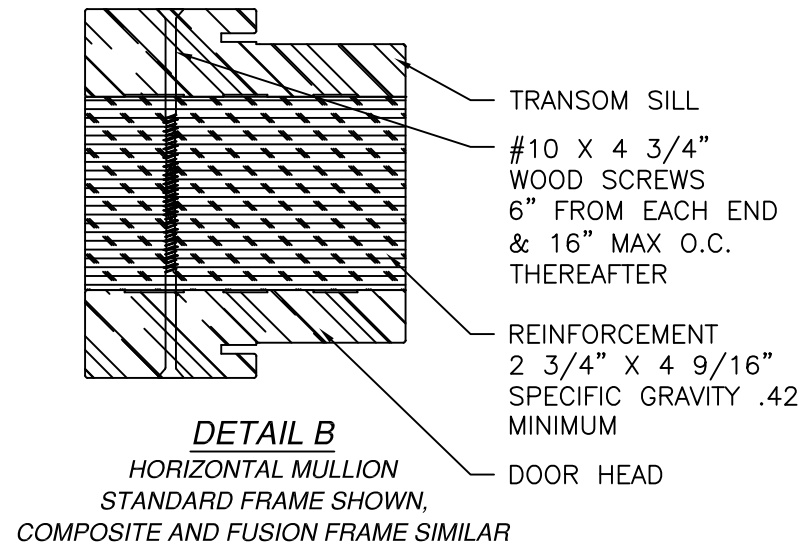
DETAIL A
VERTICAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



DETAIL A
WITH FAT BOY MULLION



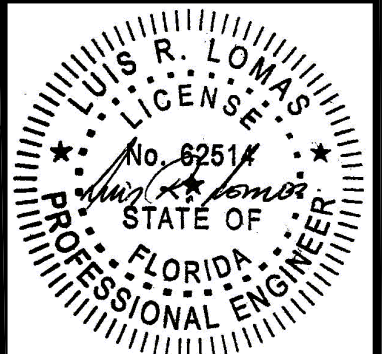
DETAIL A
WITH HYBRID FAT BOY MULLION



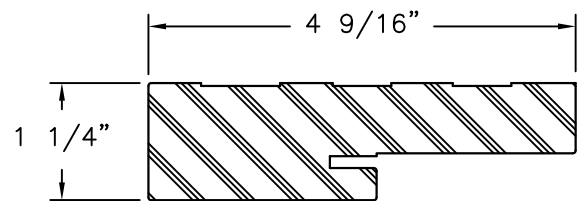
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/11/26	R.L.

SIGNED: 09/11/2026

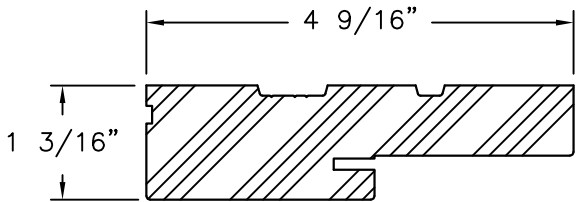
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT MULLION DETAILS		
DRAWN: J.L.	DWG NO. 08-02040	REV K
SCALE NTS	DATE 04/23/13	SHEET 17 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



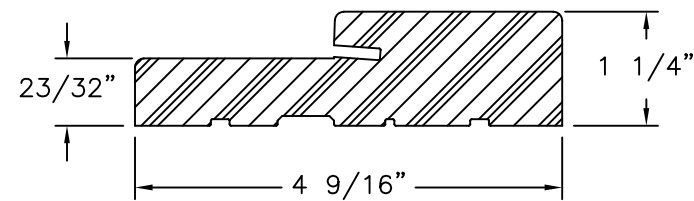
Luis R. Lomas P.E.
FL No.: 62514



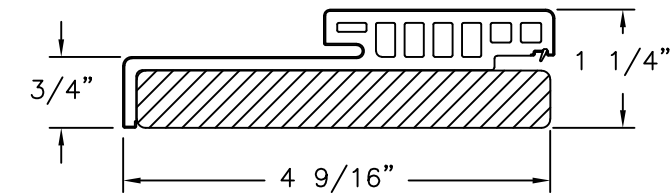
COMPOSITE FRAME PROFILE



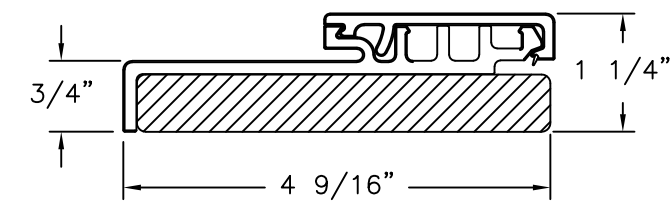
WOOD FRAME PROFILE



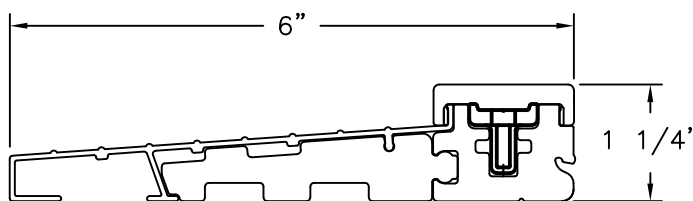
FRAMESAVER
COMPOSITE



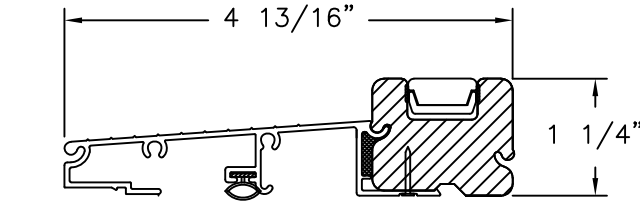
HYBRID HEAD
WOOD/COMPOSITE



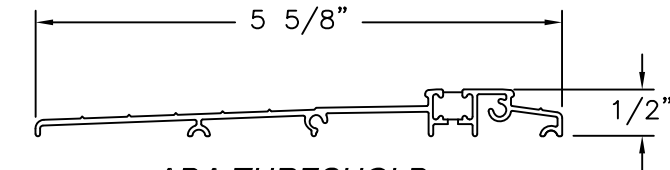
HYBRID JAMB
WOOD/COMPOSITE



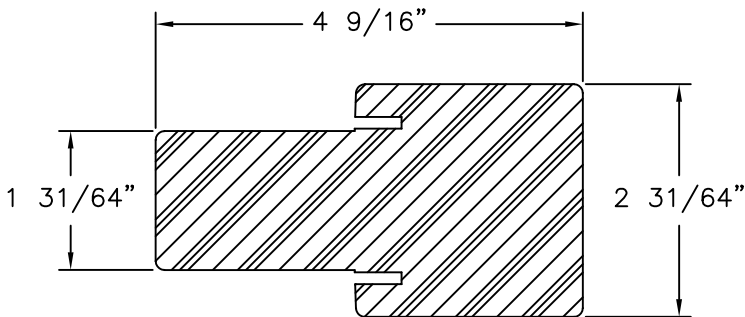
INSWING DOOR SILL DETAIL



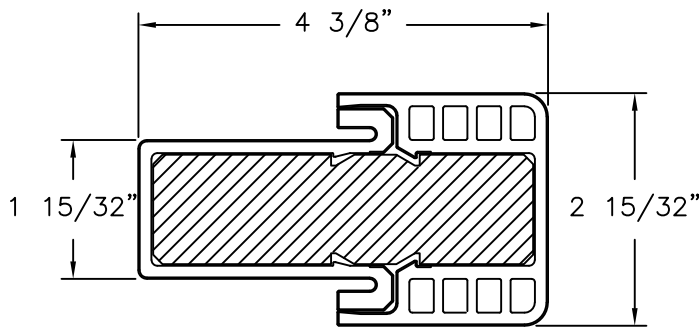
SAHARA INSWING THRESHOLD



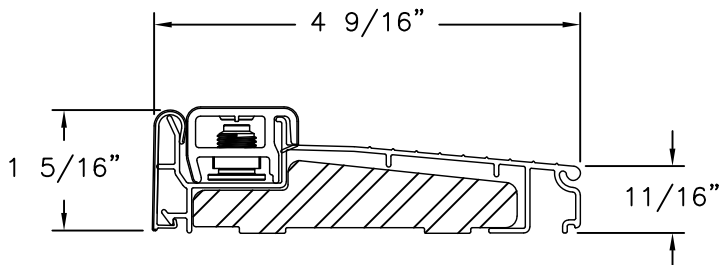
ADA THRESHOLD



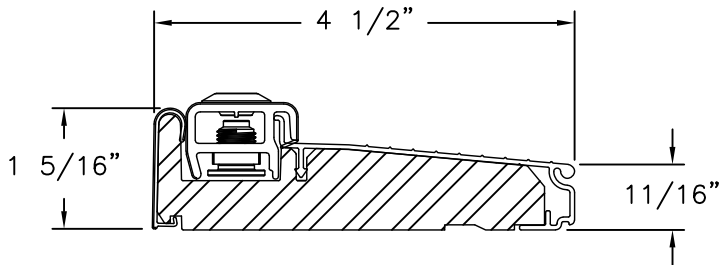
FAT BOY MULLION
COMPOSITE



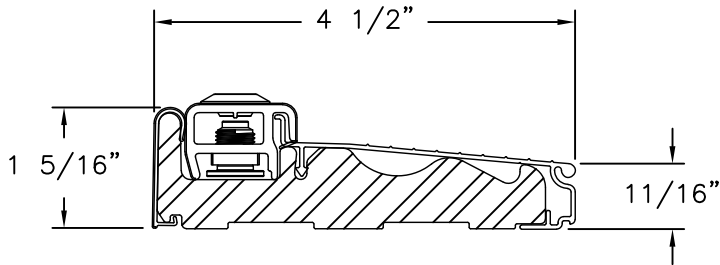
HYBRID FAT BOY MULLION
COMPOSITE



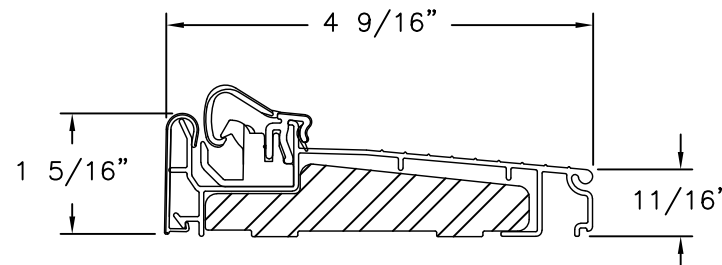
INSWING SILL ZAIL4565



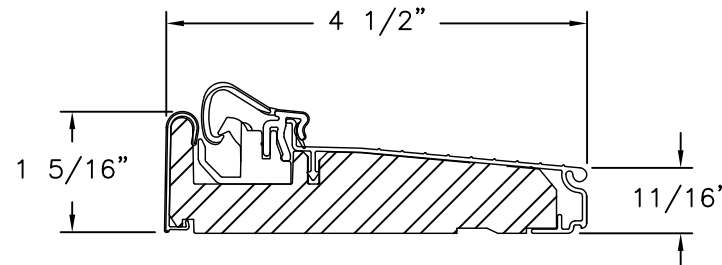
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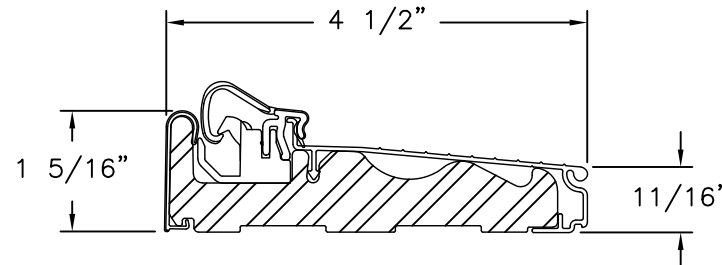
INSWING SILL ZAILH4565



INSWING SILL ZACL4565



INSWING SILL ZAC4565F

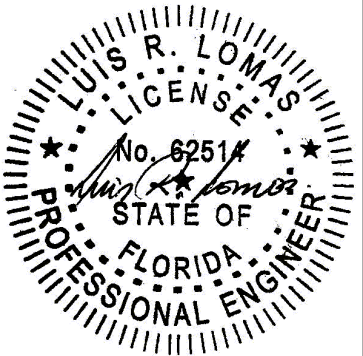


INSWING SILL ZACLH4565

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

SIGNED: 09/11/2026

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT COMPONENTS		
DRAWN: J.L.	DWG NO. 08-02040	REV K
SCALE NTS	DATE 04/23/13	SHEET 18 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
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