

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
L	REVISED HARDWARE SCHEDULE	09/14/26	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 FRAVITY, 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. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
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 GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08-02108

REV
L

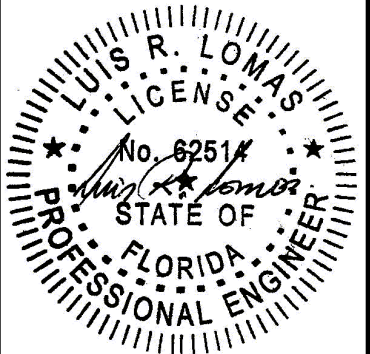
SCALE NTS

DATE 07/01/13

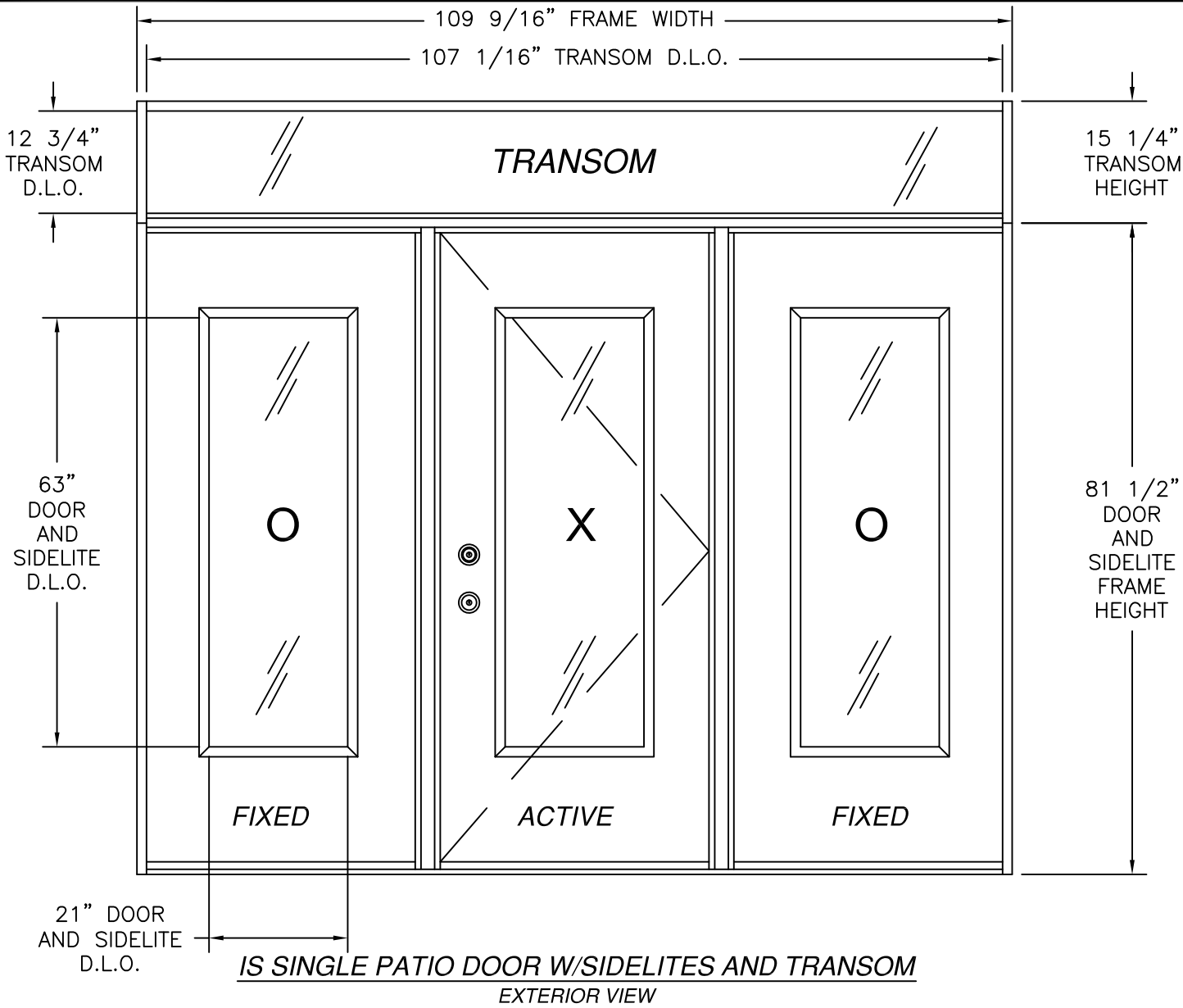
SHEET 1 OF 13

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

SIGNED: 09/14/2026



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



DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-50.0PSF	NONE

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 HANDLE ASSEMBLY (ALTERNATE)
G.	(3) 4" X 4" BALL BEARING HINGES BY PENROD
H.	(3) 4" X 4" SPRING BOMMER HINGES BY PENROD (ALTERNATE)
I.	(2) EXTRUDED ALUMINUM MULLION BY PROVIA DOOR, INC.

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ELEVATION

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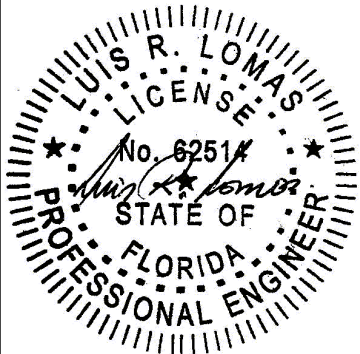
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SHEET
2 OF 13

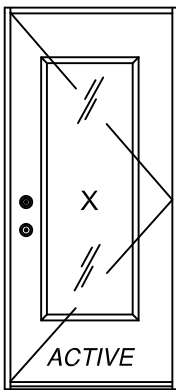
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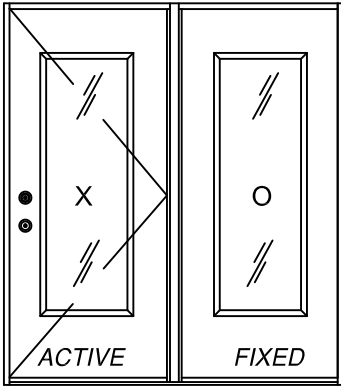


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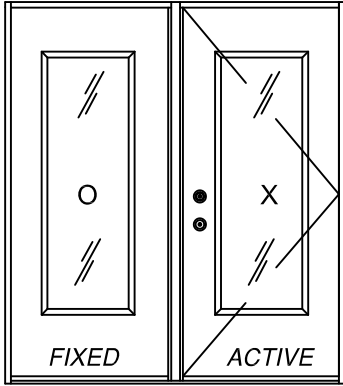
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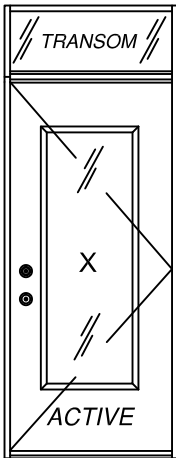
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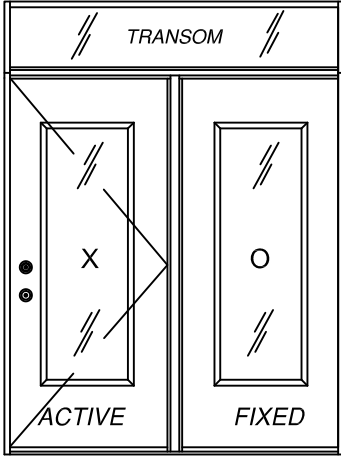
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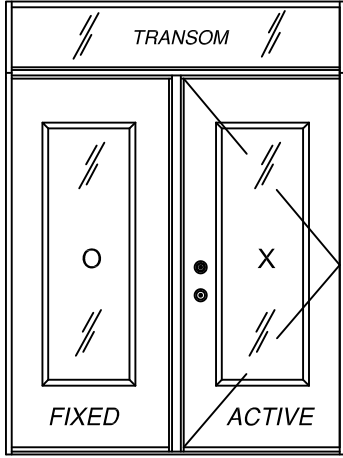
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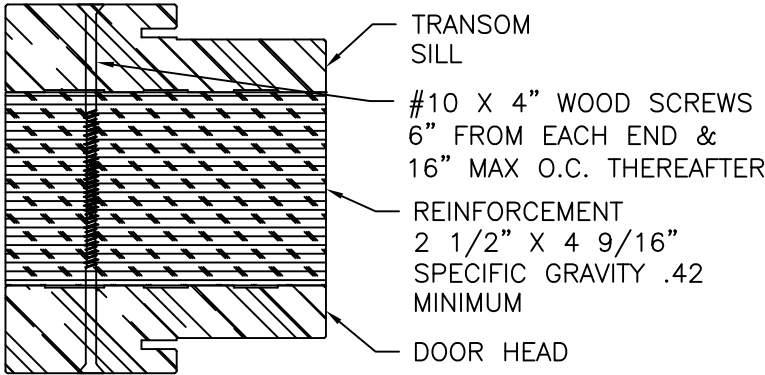
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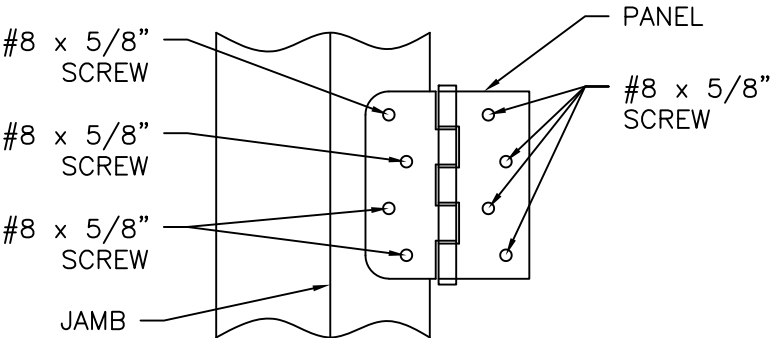
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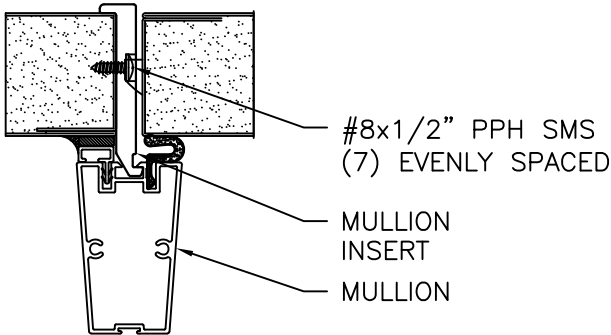
SINGLE W/SIDELITE & TRANSOM



HORIZONTAL MULLION DETAIL
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR

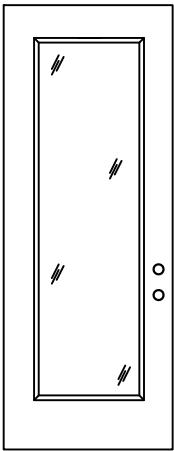


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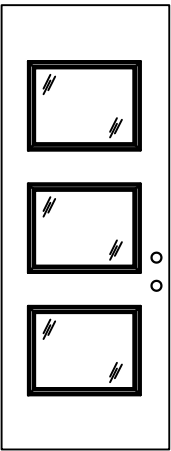


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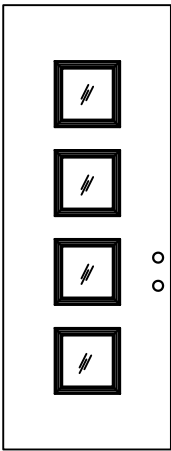
APPROVED LITE CONFIGURATIONS



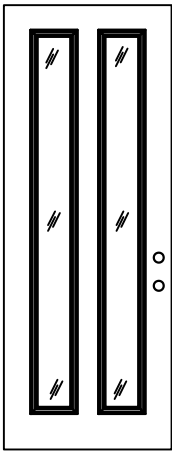
FULL LITE



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 9.2 FT²

NOTE:
ALL APPROVED CONFIGURATIONS ARE SHOWN
AS RIGHT HAND ACTIVE, LEFT HAND ACTIVE
IS ALSO APPROVED.

PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
APPROVED CONFIGURATIONS & COMPONENTS DETAILS

DRAWN: V.L.

DWG NO. 08-02108

REV L

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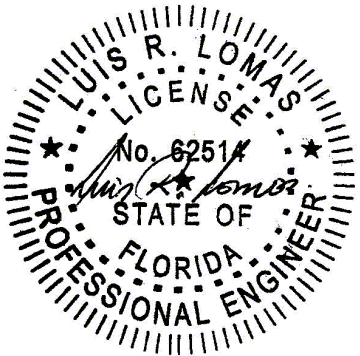
SHEET 3 OF 13

L. ROBERTO LOMAS P.E.

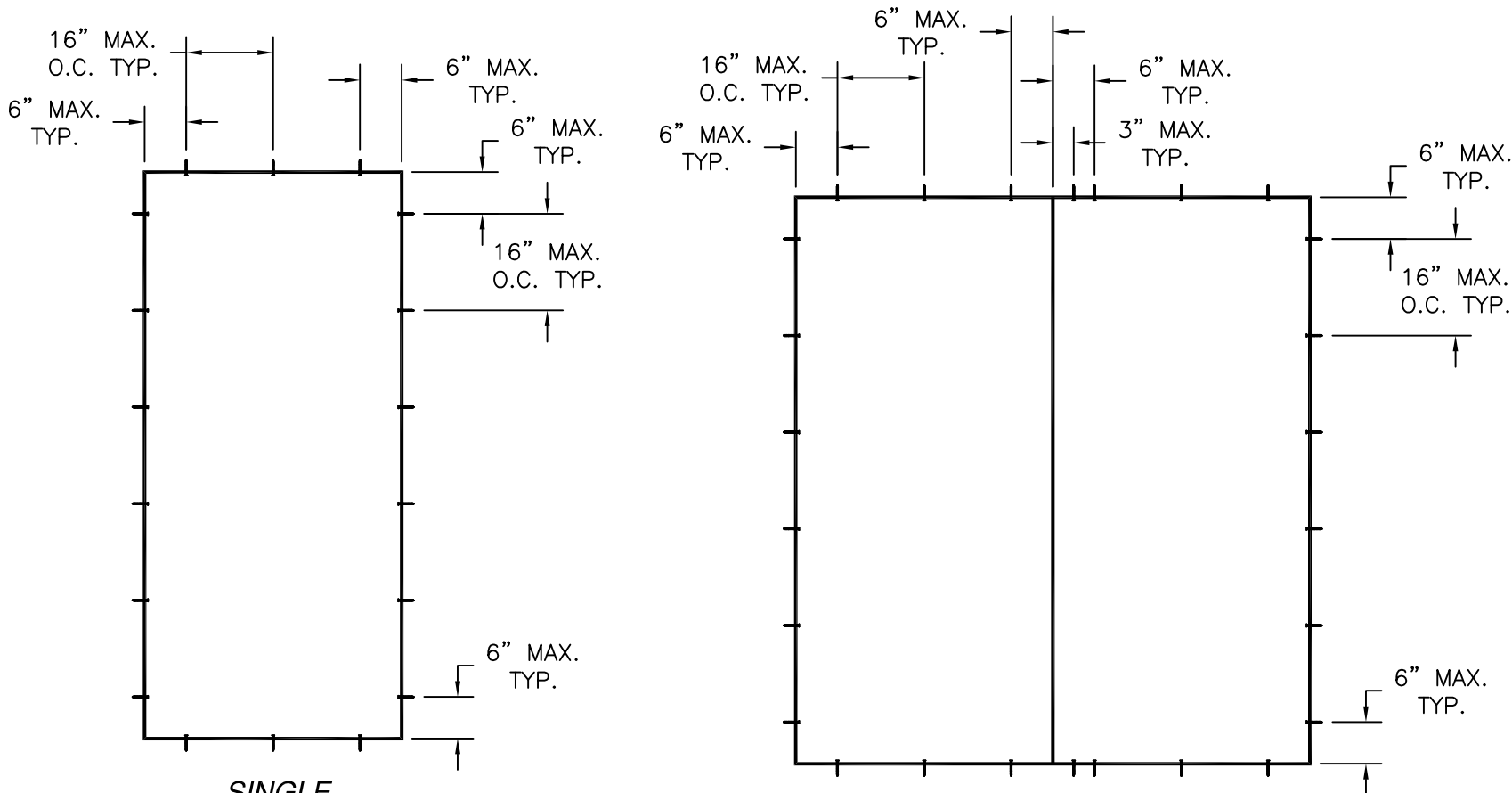
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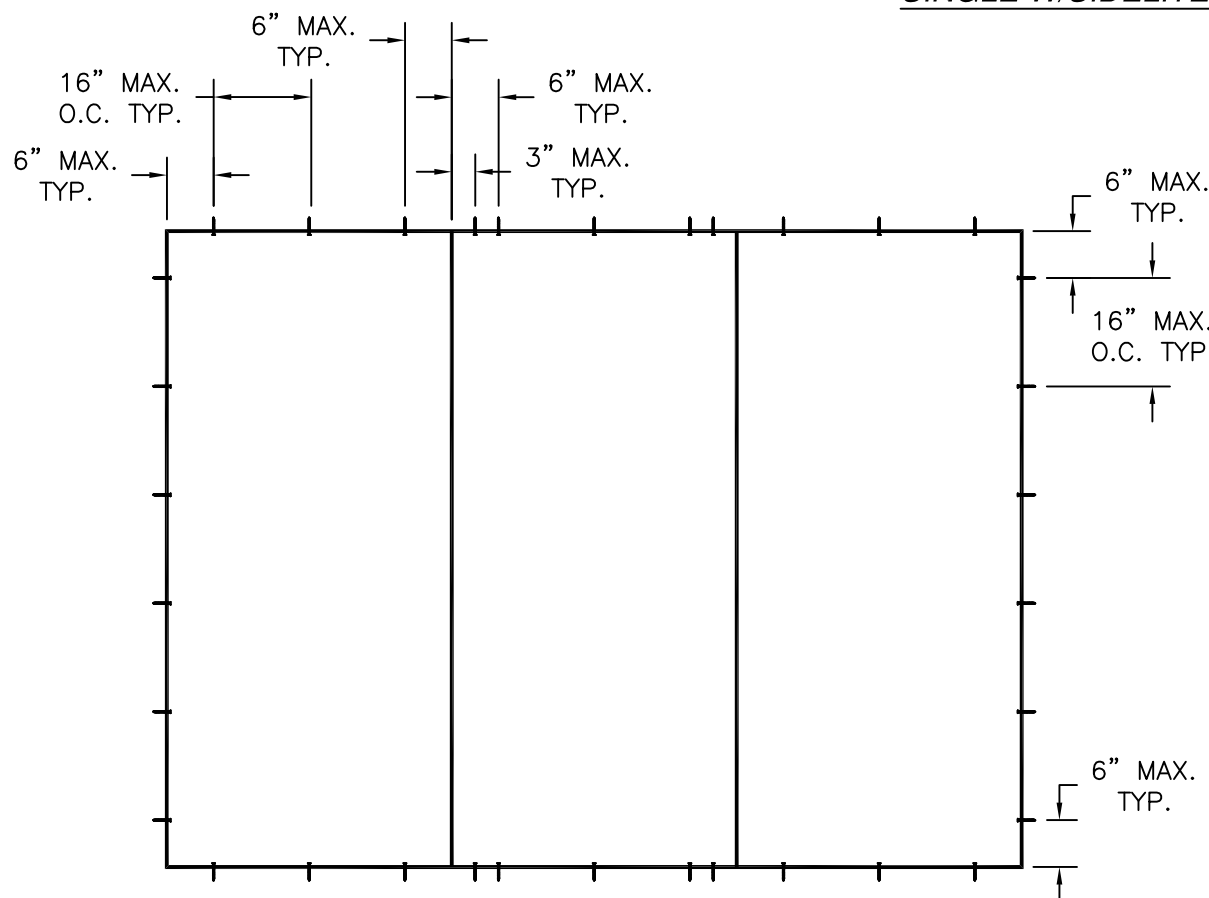


Luis R. Lomas P.E.
FL No.: 62514



SINGLE

SINGLE W/SIDELITE



SINGLE W/SIDELITES

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L	REVISED HARDWARE SCHEDULE	09/14/26	R.L.

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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ANCHORING LAYOUTS

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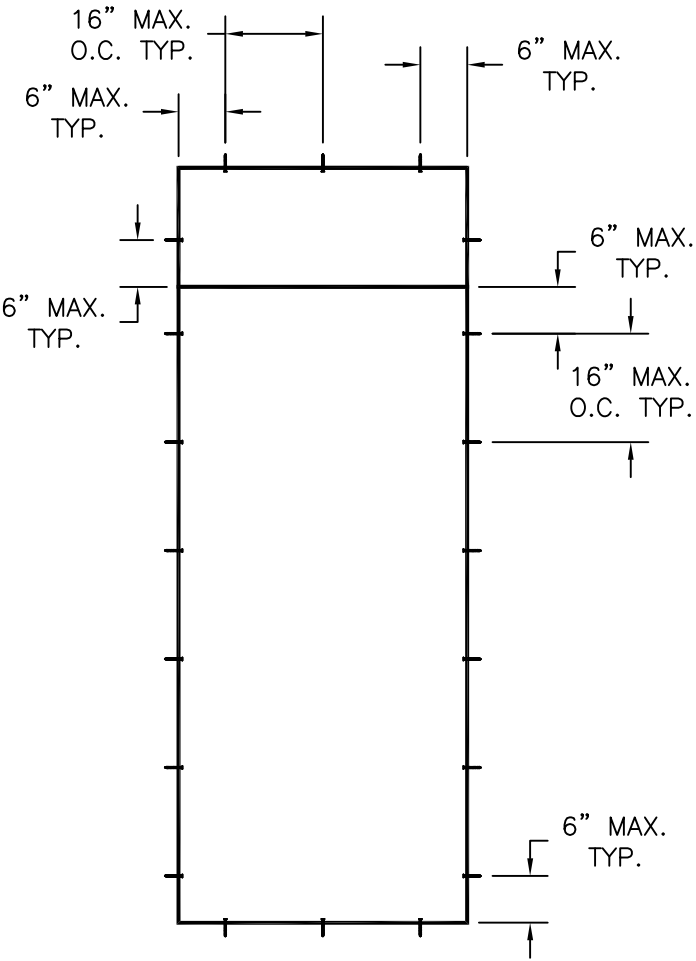
DATE
07/01/13

SHEET
4 OF 13

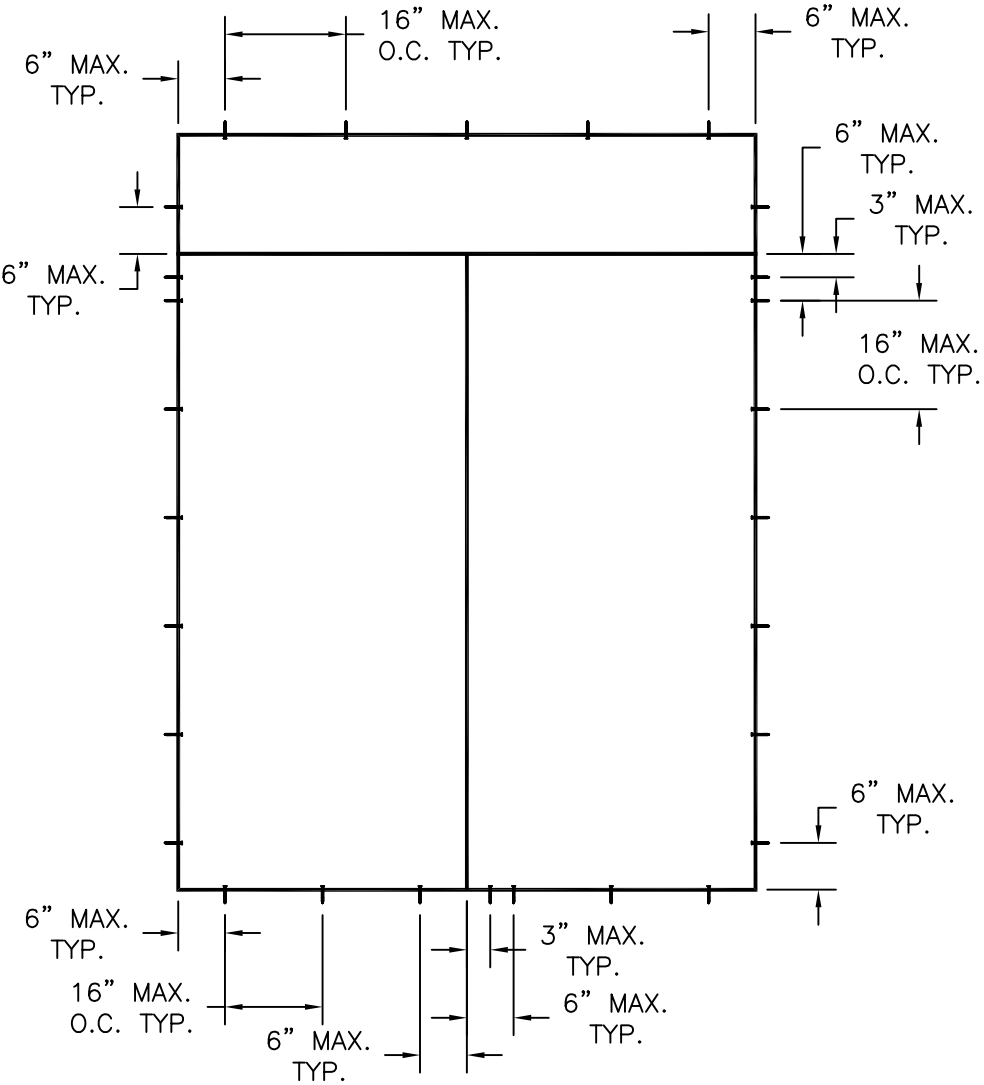
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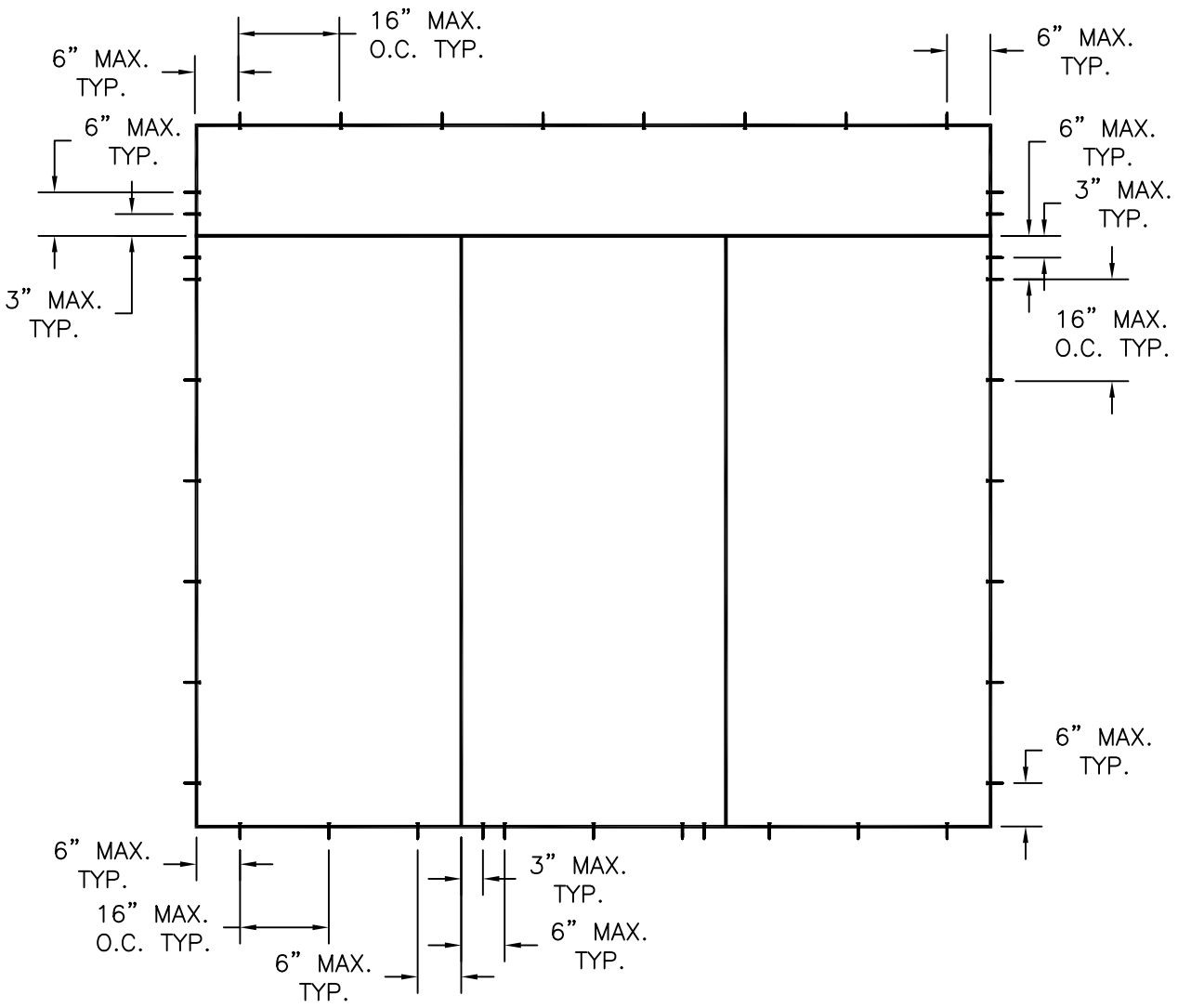
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SINGLE WITH TRANSOM



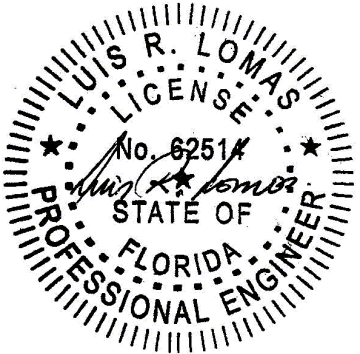
SINGLE W/SIDELITE & TRANSOM



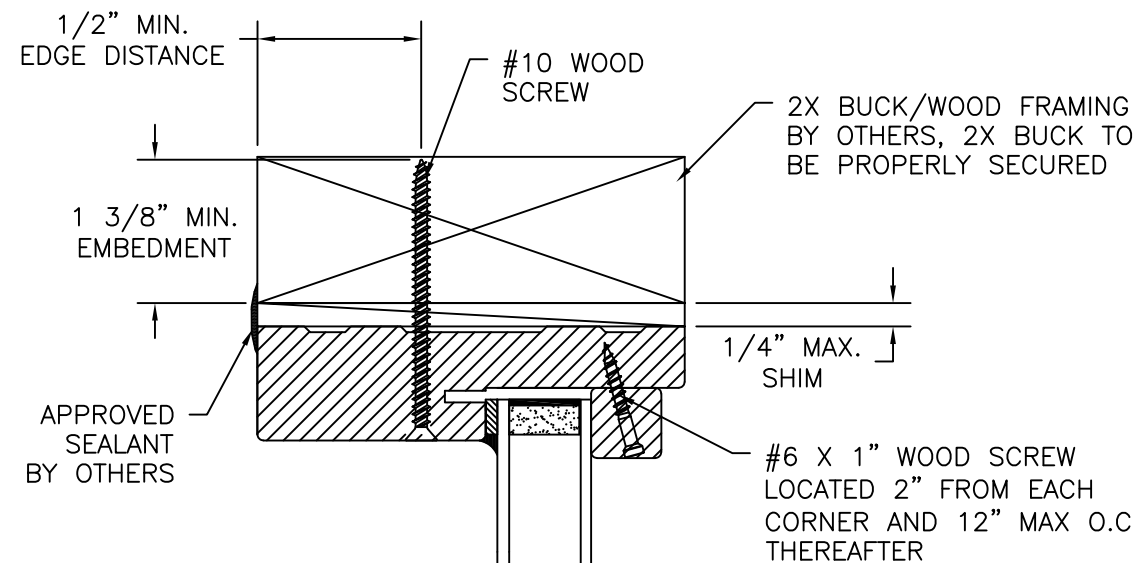
SINGLE W/SIDELITES & TRANSOM

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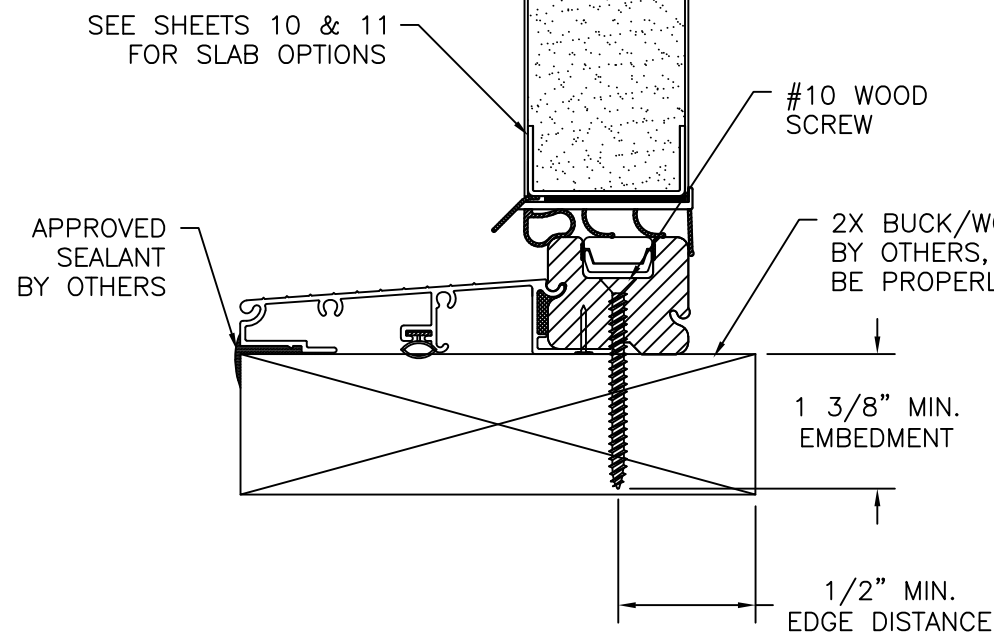
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR W/SIDELITES & TRANSOM NON-IMPACT ANCHORING LAYOUTS		
DRAWN: V.L.	DWG NO. 08-02108	REV L
SCALE NTS	DATE 07/01/13	SHEET 5 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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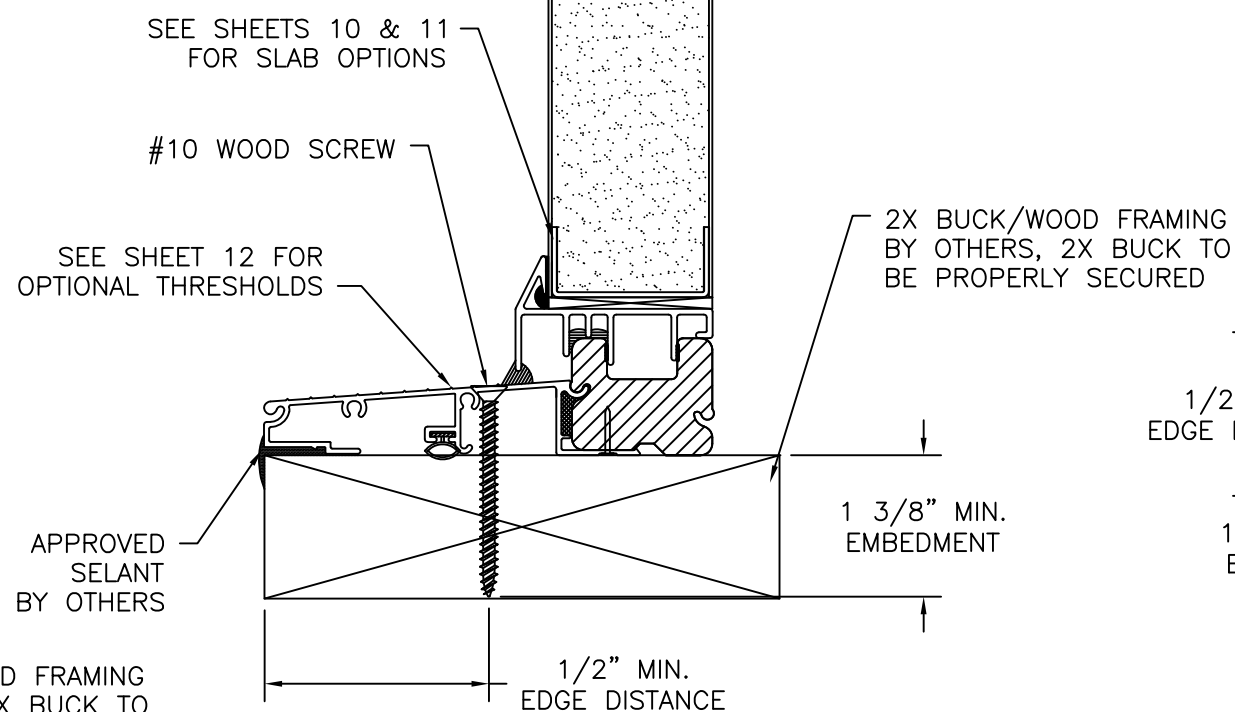


EXTERIOR INTERIOR



VERTICAL CROSS SECTION

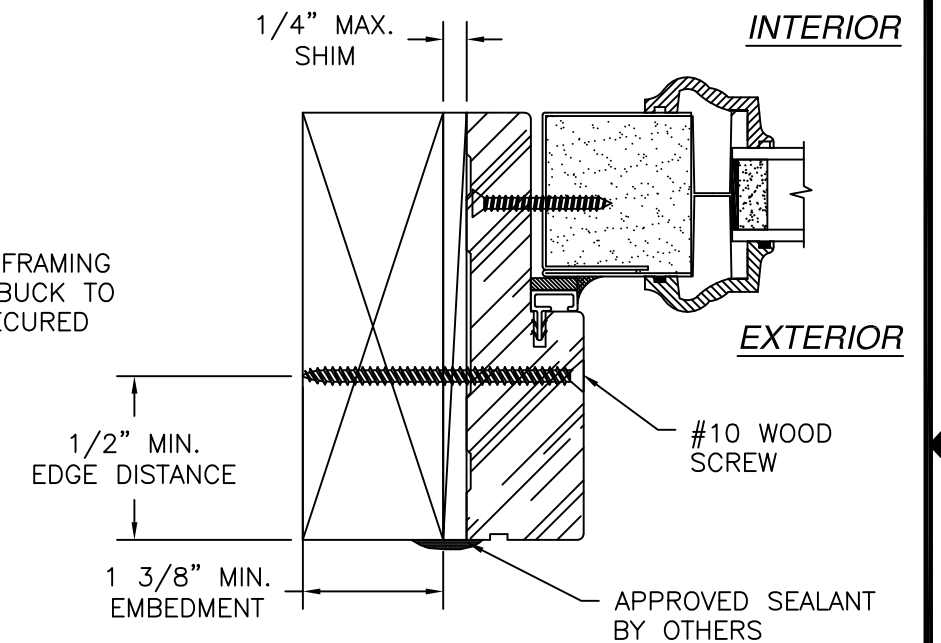
DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



SIDELITE SILL DETAIL

2X BUCK/WOOD FRAMING INSTALLATION

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JAMB DETAIL

2X BUCK/WOOD FRAMING INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD SIMILAR

NOTES:

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- PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

PROVIA, LLC.

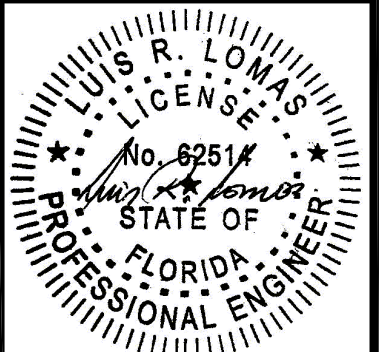
2150 STATE ROUTE 39 WEST
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STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-02108	REV L
SCALE NTS	DATE 07/01/13	SHEET 6 OF 13

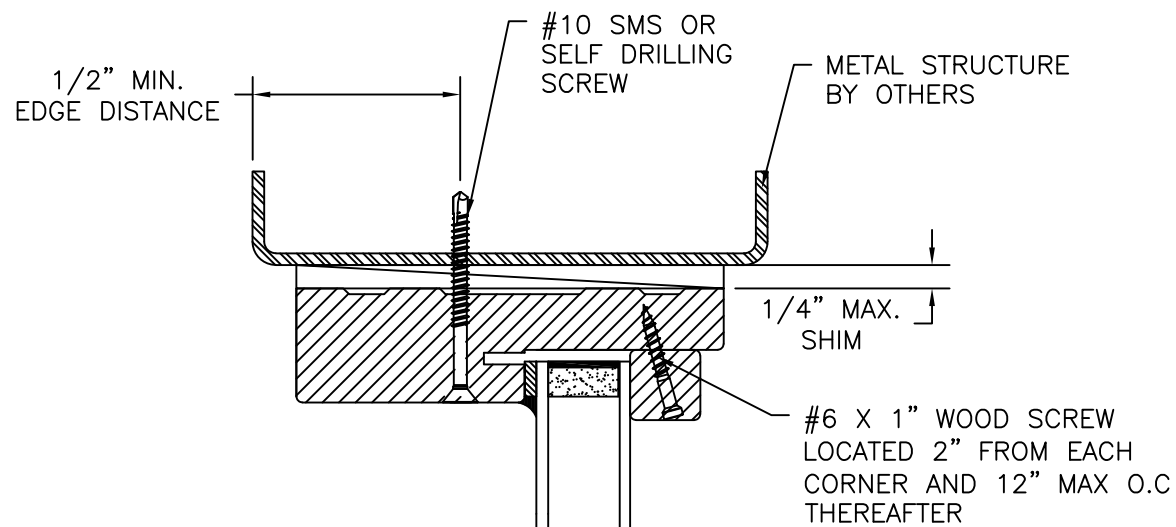
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EXTERIOR INTERIOR

SEE SHEET 10 & 11 FOR SLAB OPTIONS

#10 SMS OR SELF DRILLING SCREW

SEE SHEET 12 FOR OPTIONAL THRESHOLDS

METAL STRUCTURE BY OTHERS

SEE SHEET 10 & 11 FOR SLAB OPTIONS

#10 SMS OR SELF DRILLING SCREW

METAL STRUCTURE BY OTHERS

1/2" MIN. EDGE DISTANCE

VERTICAL CROSS SECTION

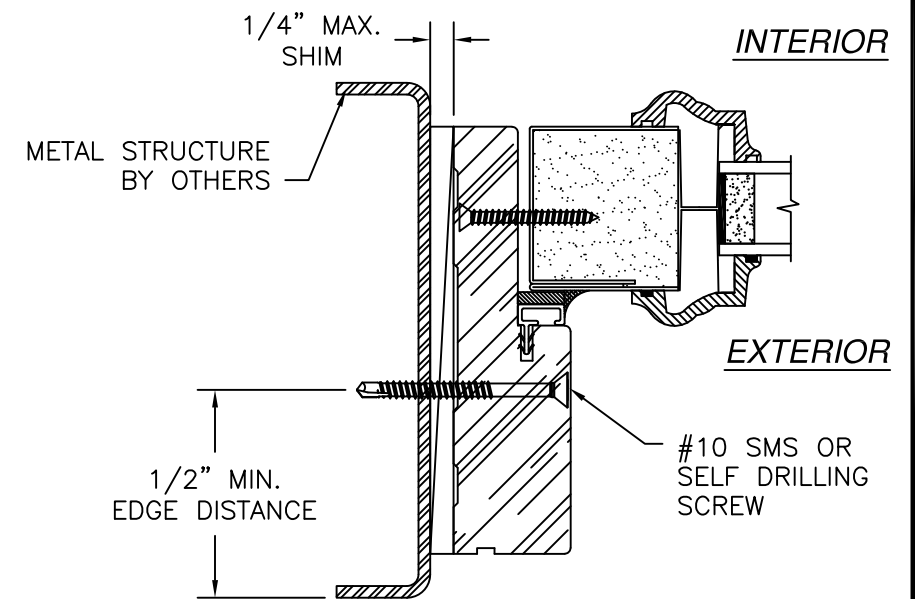
DOOR AND TRANSOM INSTALLATION - METAL STRUCTURE INSTALLATION
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR

EXTERIOR INTERIOR

1/2" MIN. EDGE DISTANCE

SIDELITE SILL DETAIL

METAL STRUCTURE INSTALLATION



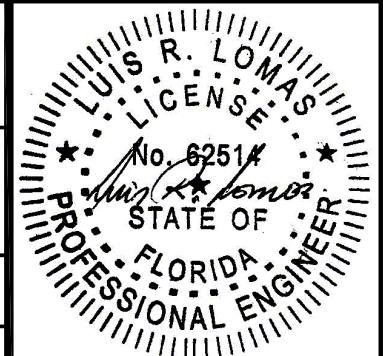
JAMB DETAIL

METAL STRUCTURE INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD SIMILAR

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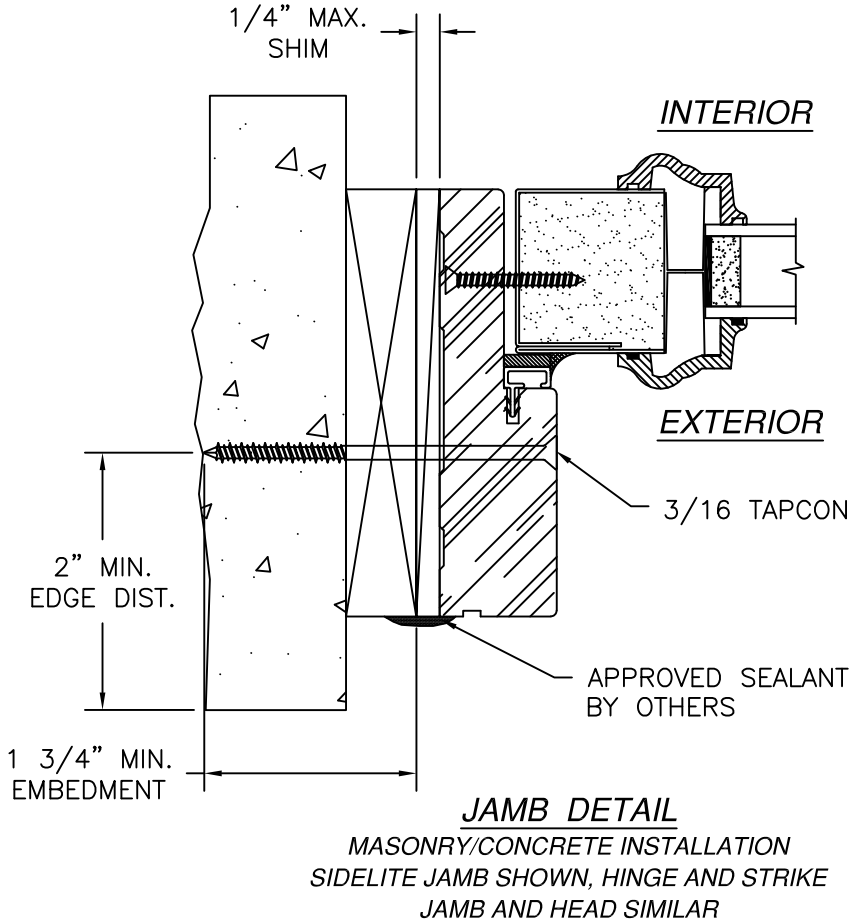
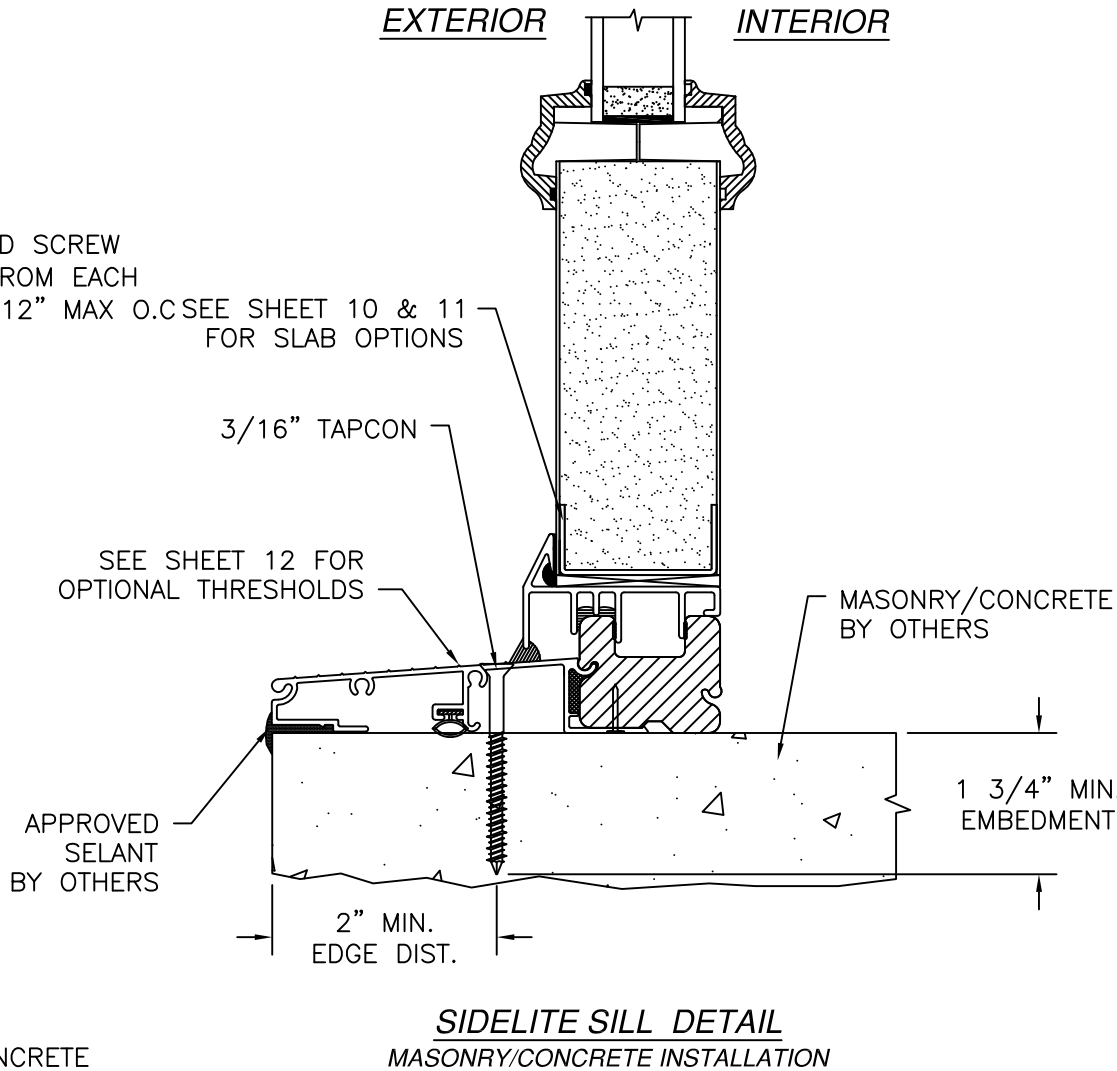
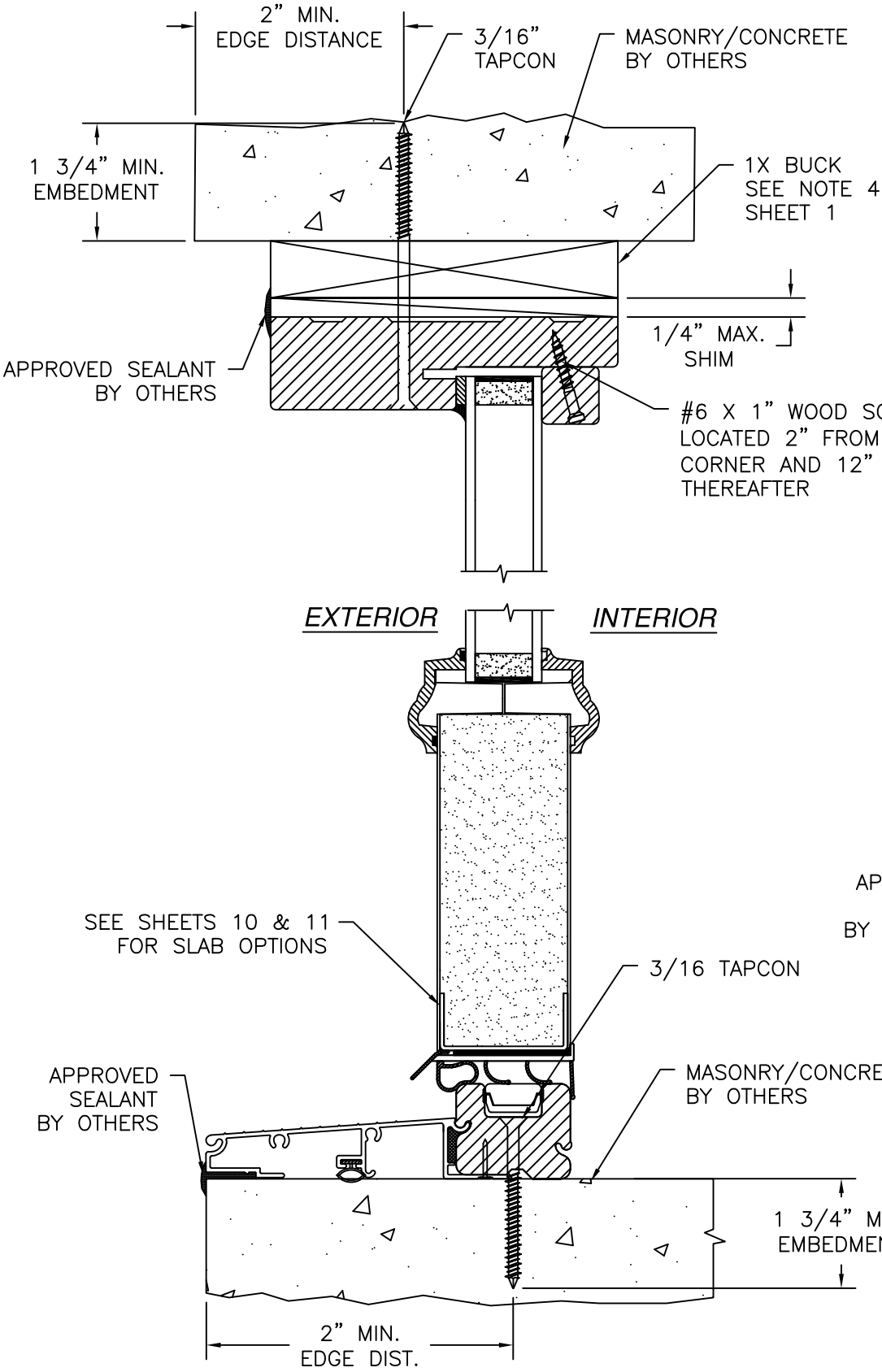
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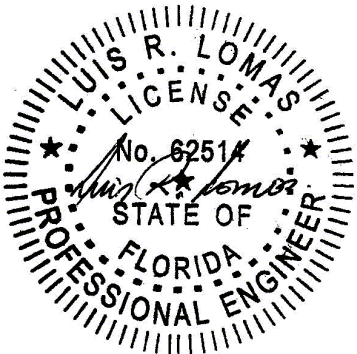
SHEET
8 OF 13

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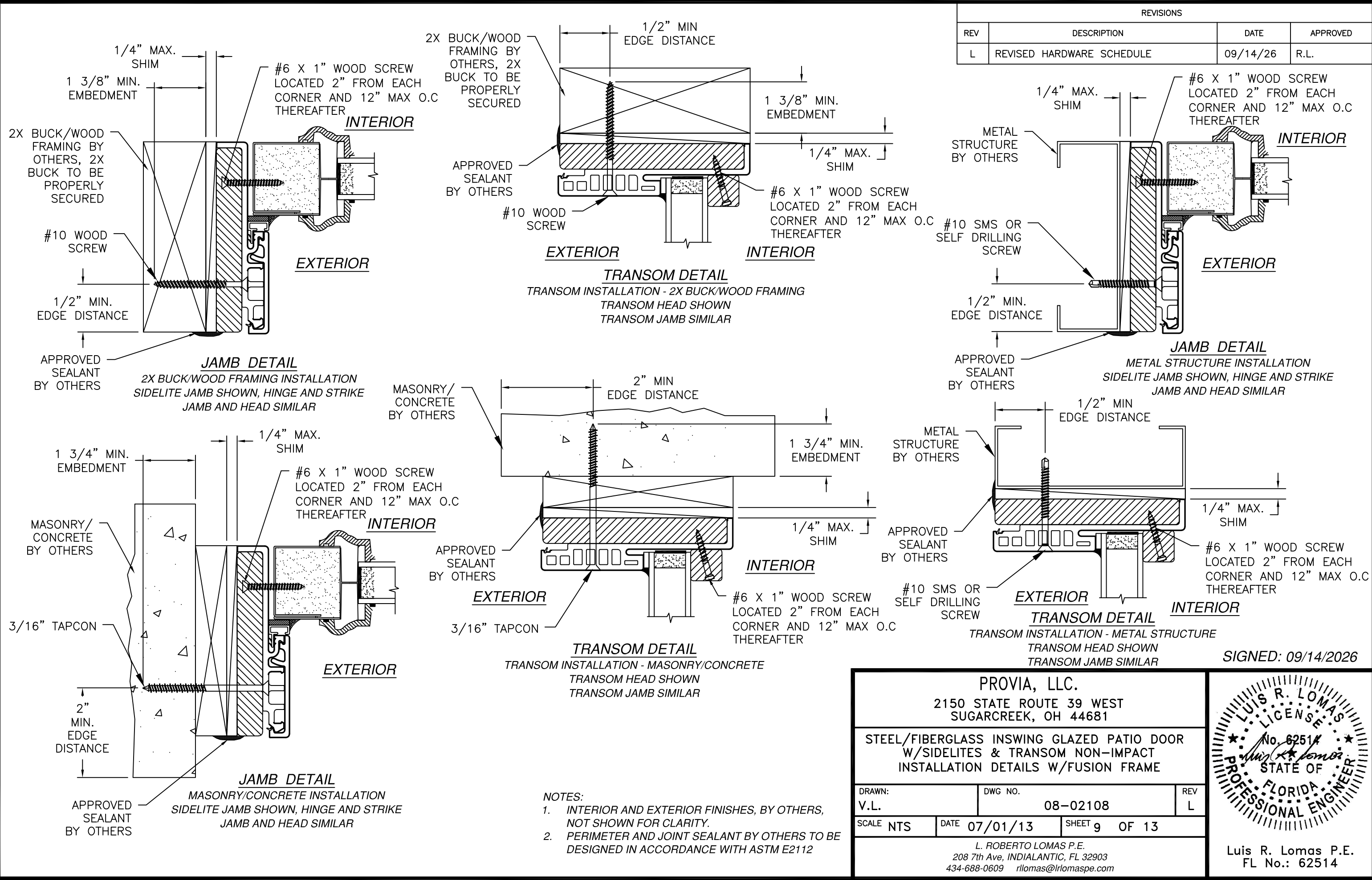
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STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
INSTALLATION DETAILS W/FUSION FRAME

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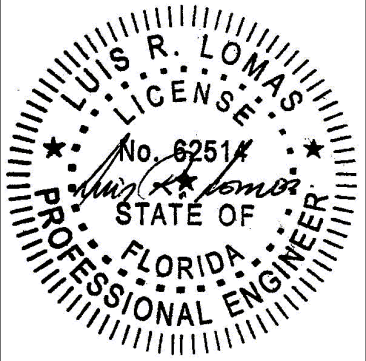
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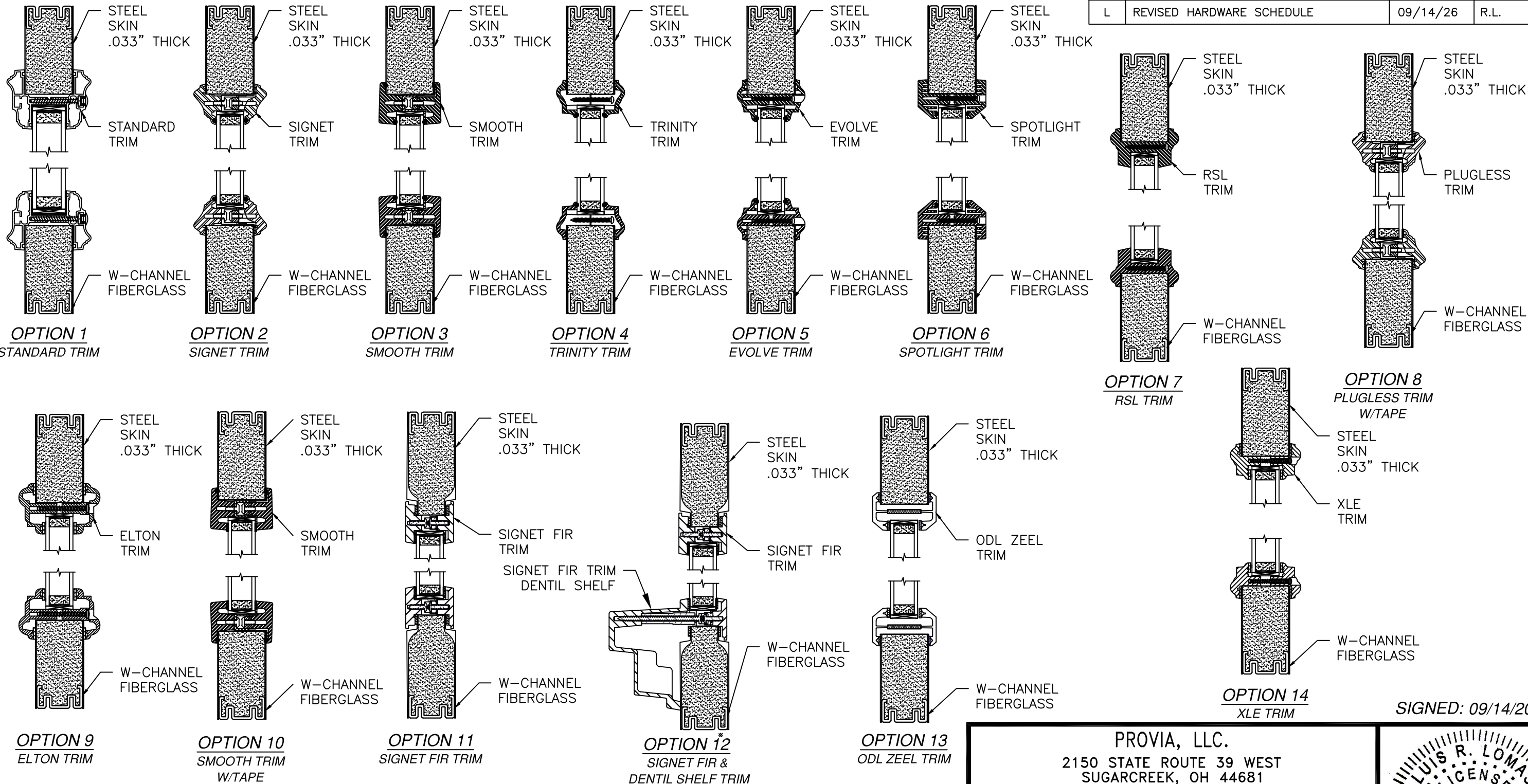
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APPROVED SLABS AND TRIMS

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STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
COMPONENTS DETAILS AND APPROVED PANELS

DRAWN: V.L.	DWG NO. 08-02108	REV L
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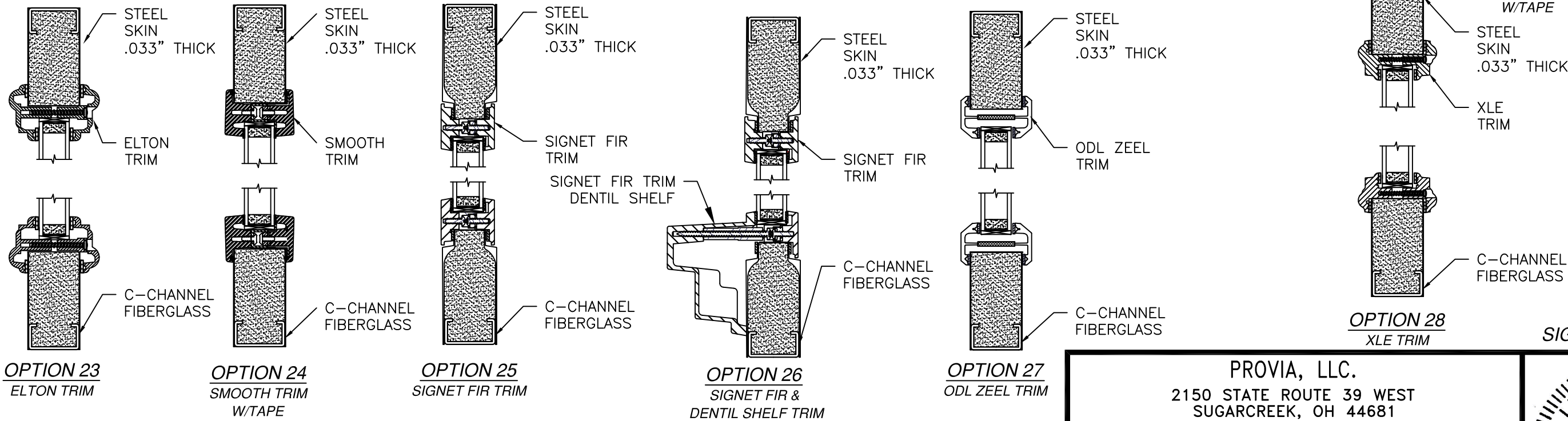
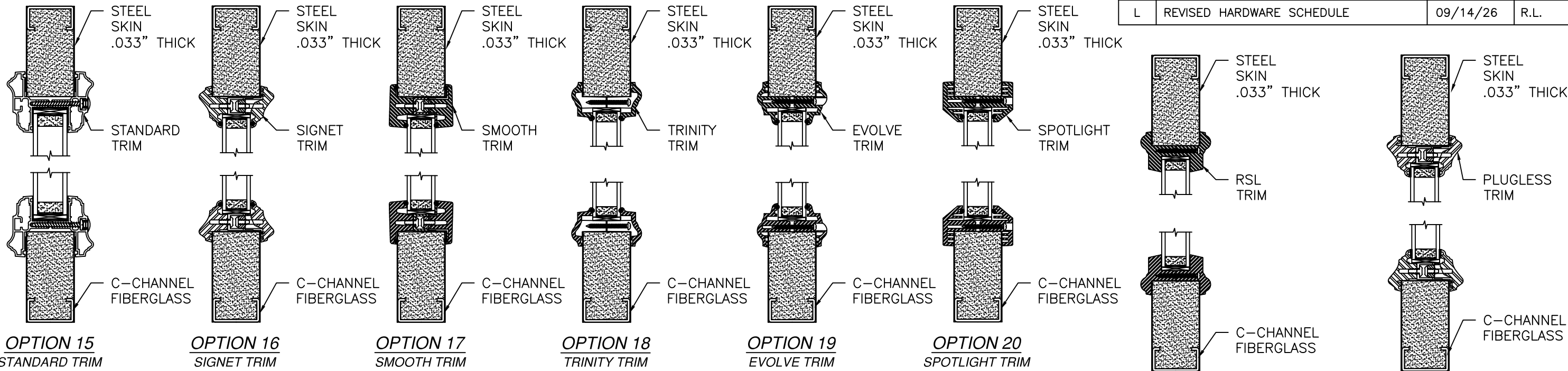
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/14/2026

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

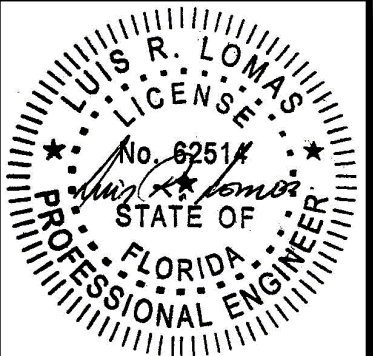
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
L	REVISED HARDWARE SCHEDULE	09/14/26	R.L.



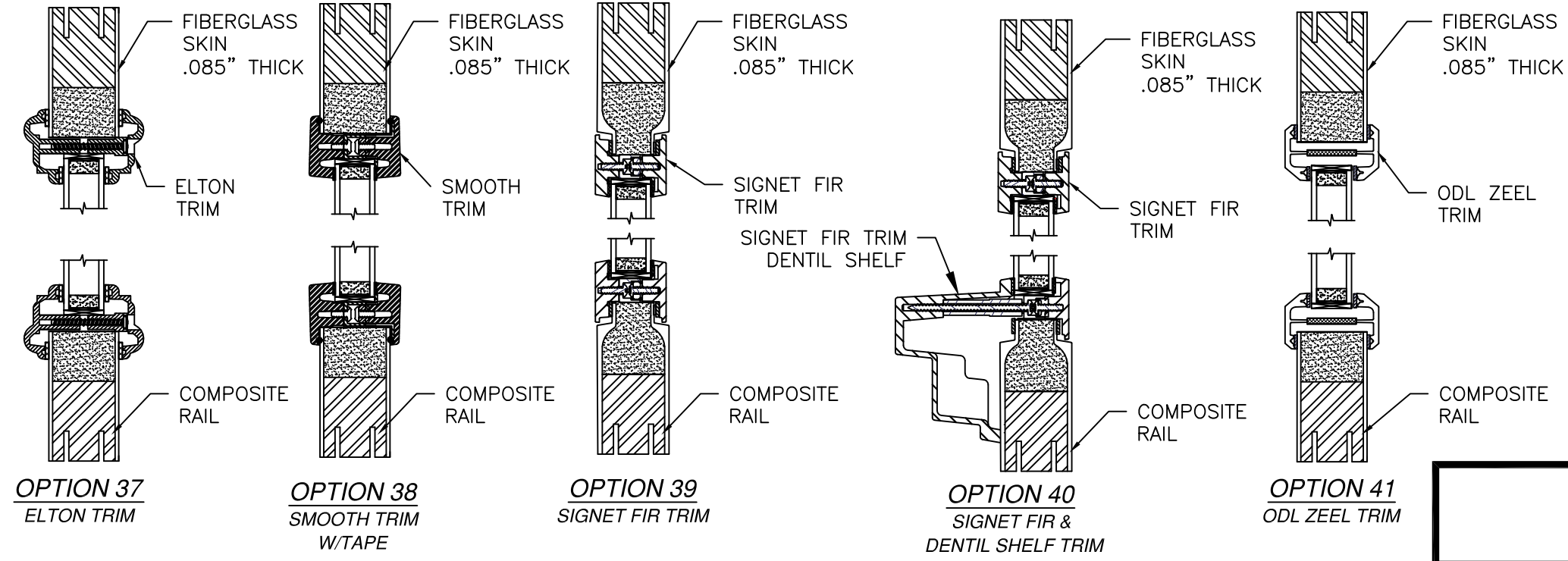
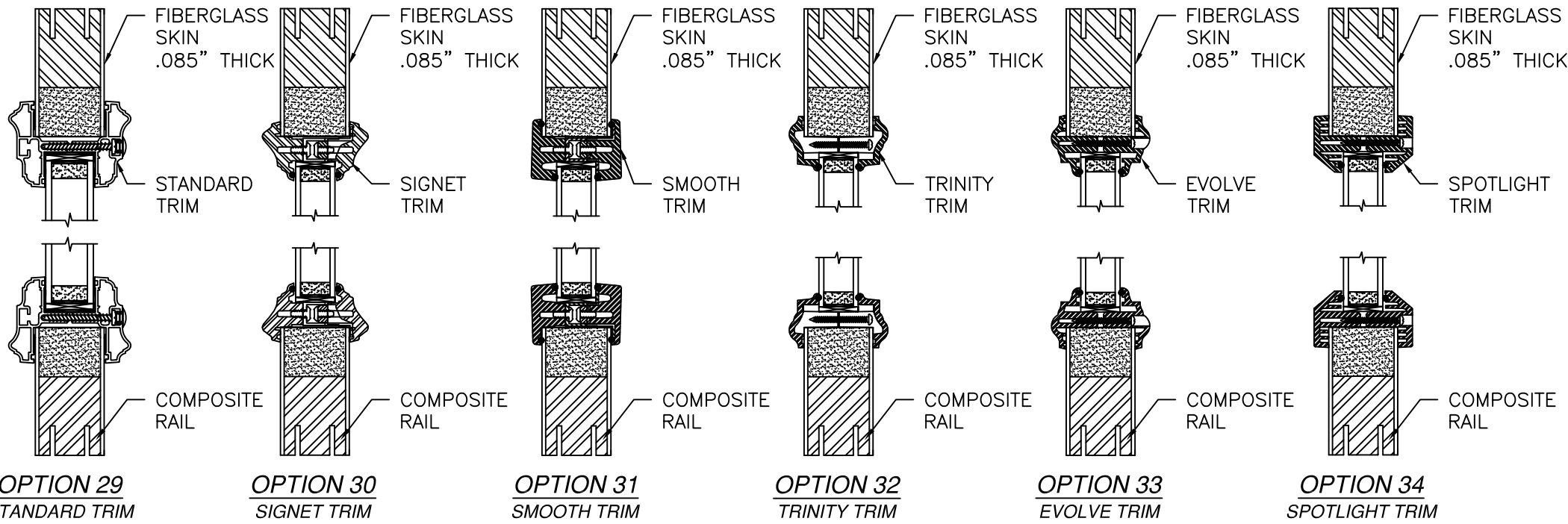
APPROVED SLABS AND TRIMS

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR W/SIDELITES & TRANSOM NON-IMPACT APPROVED SLABS AND TRIMS		
DRAWN: V.L.	DWG NO. 08-02108	REV L
SCALE NTS	DATE 07/01/13	SHEET 11 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

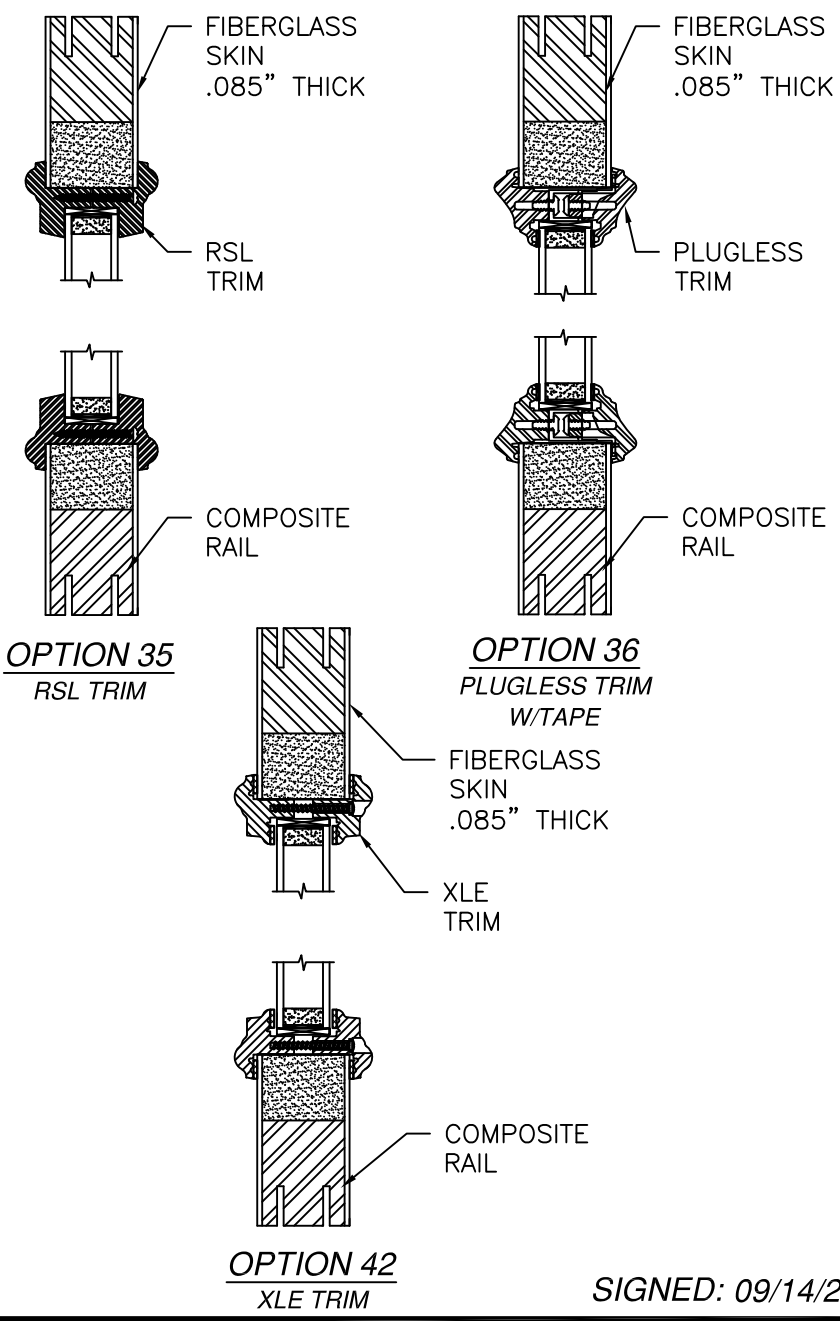


Luis R. Lomas P.E.
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
L	REVISED HARDWARE SCHEDULE	09/14/26	R.L.



APPROVED SLABS AND TRIMS

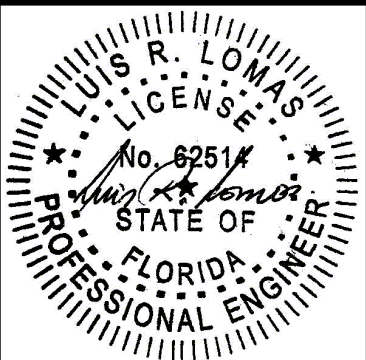
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
APPROVED SLABS AND TRIMS

DRAWN: V.L.	DWG NO. 08-02108	REV L
SCALE NTS	DATE 07/01/13	SHEET 12 OF 13

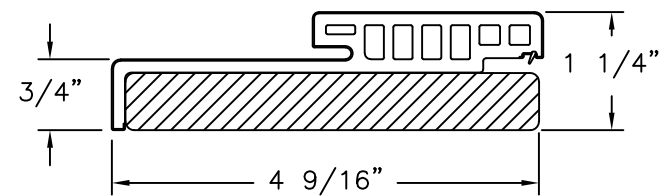
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
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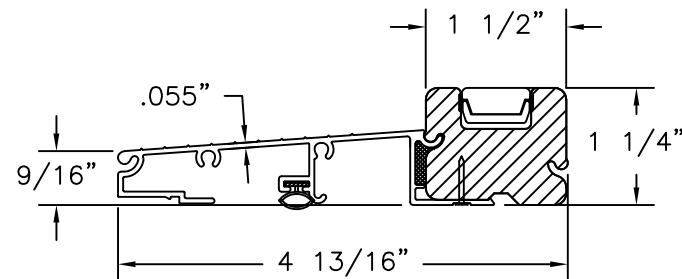


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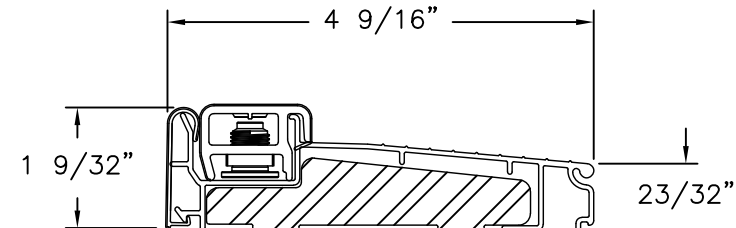
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
L	REVISED HARDWARE SCHEDULE	09/14/26	R.L.



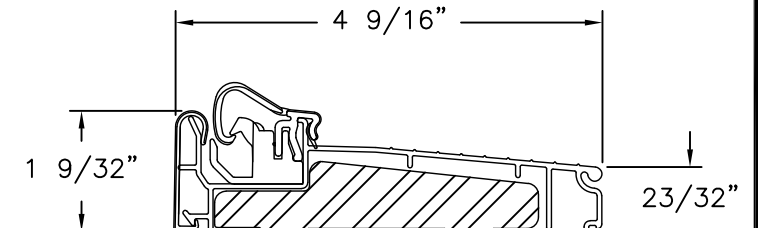
HYBRID HEAD
WOOD/COMPOSITE



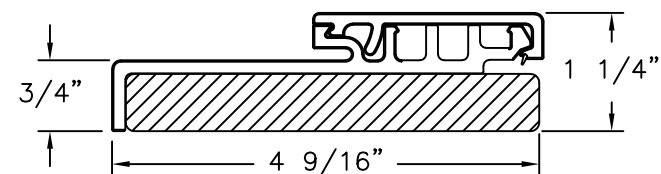
SAHARA INSWING THRESHOLD



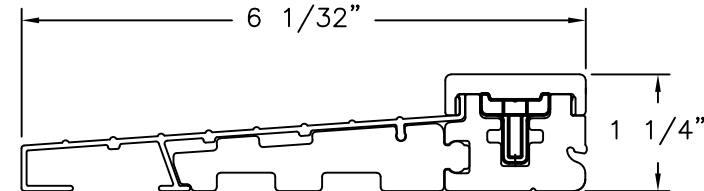
INSWING SILL ZAIL4565



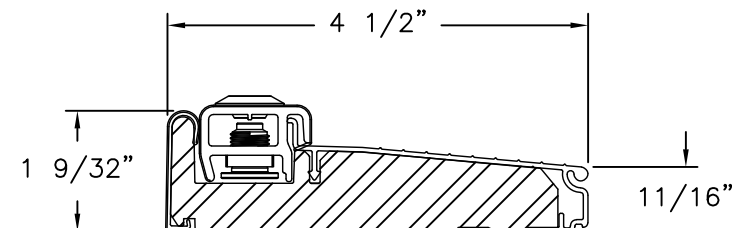
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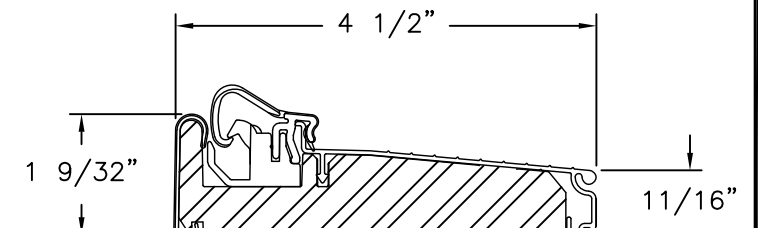
HYBRID JAMB
WOOD/COMPOSITE



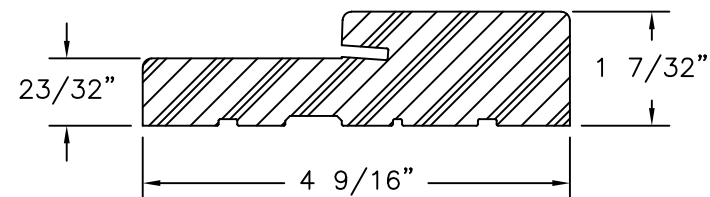
STANDARD INSWING THRESHOLD



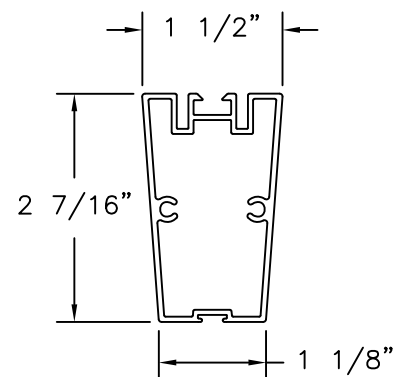
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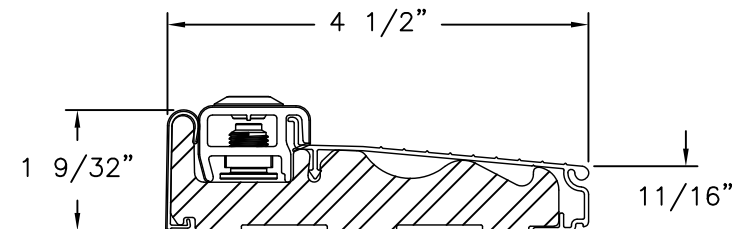
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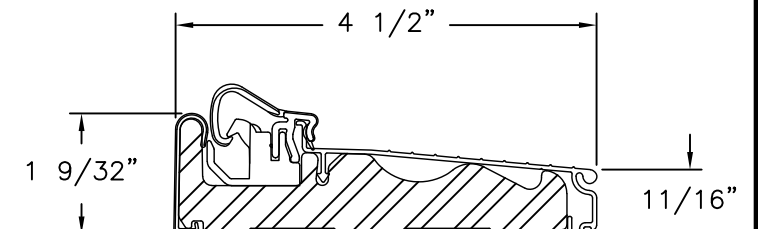
FRAMESAVER
COMPOSITE



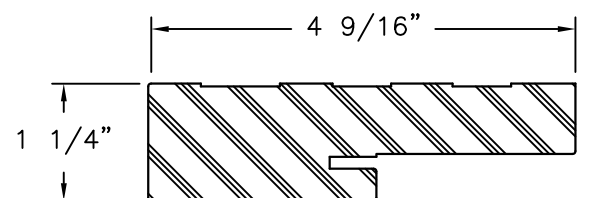
PATIO DOOR MULLION
EXTRUDED ALUMINUM 6063-T6 .055" THICK



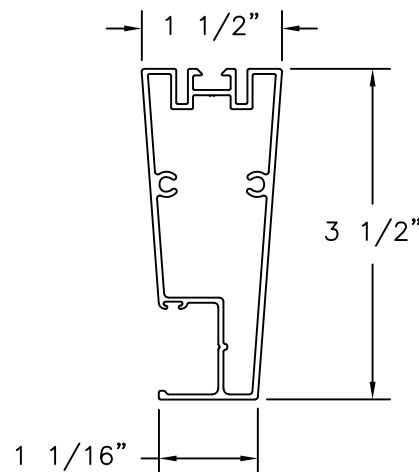
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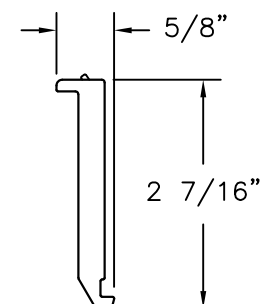
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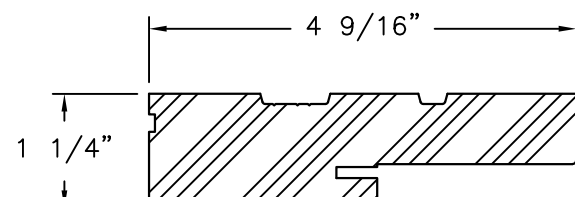
COMPOSITE FRAME PROFILE



PATIO DOOR MULLION
WITH SCREEN TRACK
EXTRUDED ALUMINUM 6063-T6 .055" THICK



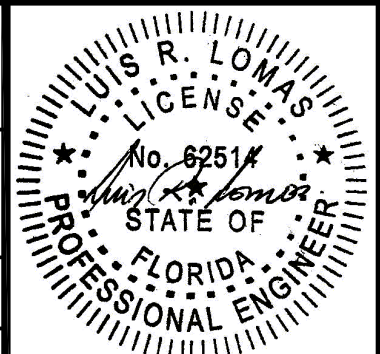
MULLION INSERT
EXTRUDED RIGID PVC .281" THICK



WOOD FRAME PROFILE

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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR W/SIDELITES & TRANSOM NON-IMPACT COMPONENTS		
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