

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	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 11 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 SINGLE DOOR
W/SIDELITES & TRANSOM – IMPACT
NOTES

DRAWN:
N.G.

DWG NO.
08-02037

REV
J

SCALE
NTS

DATE
05/22/13

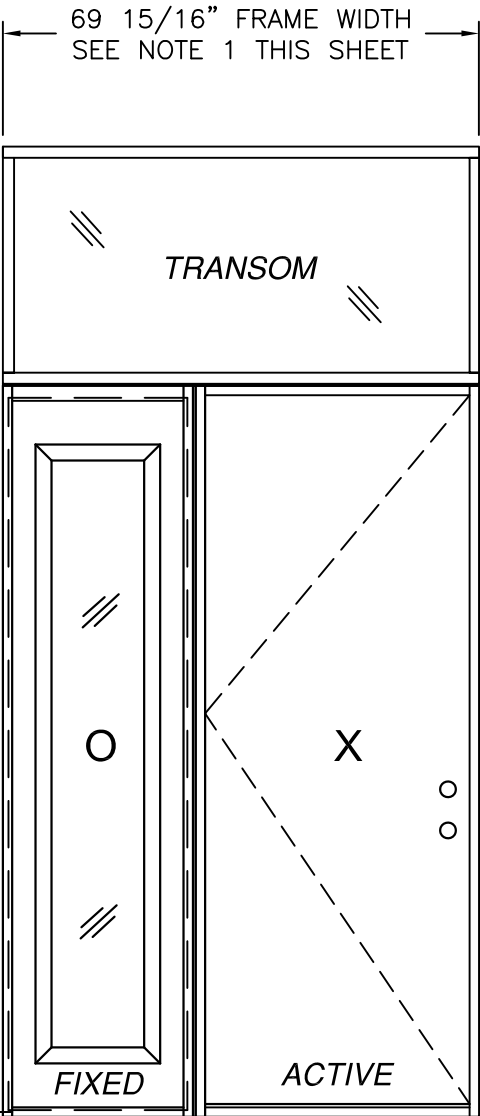
SHEET
1 OF 17

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

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

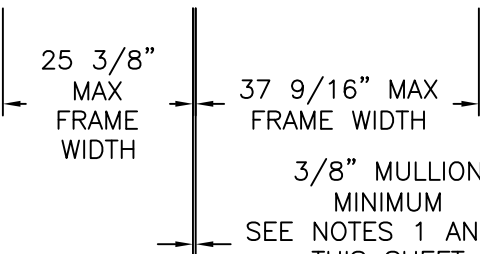
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1/2" MULLION MINIMUM
SEE NOTE 3
THIS SHEET
& DETAILS B & C
SHEET 16

97 19/32" FRAME HEIGHT

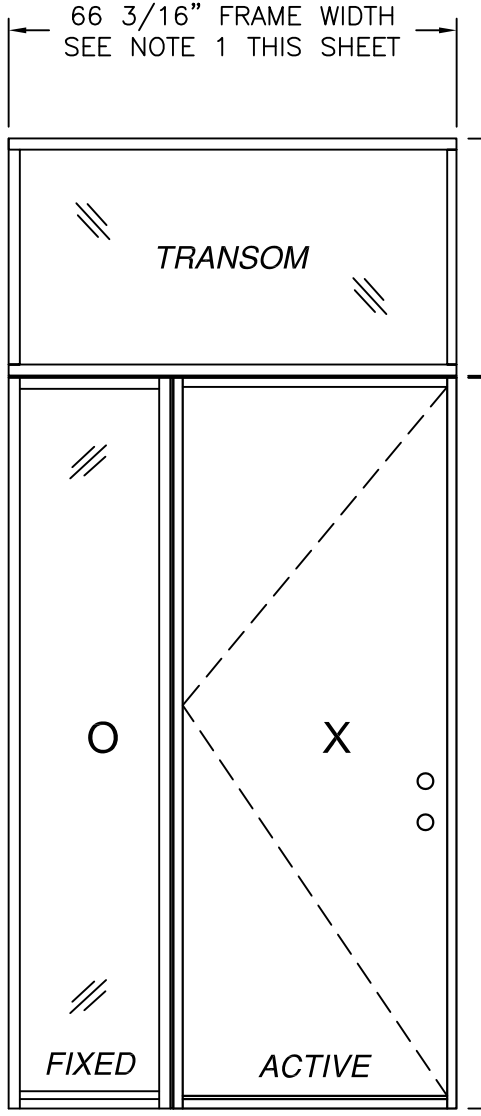


SINGLE DOOR W/ STD SIDELITE AND TRANSOM

EXTERIOR VIEW
OX SHOWN XO ALSO APPROVED

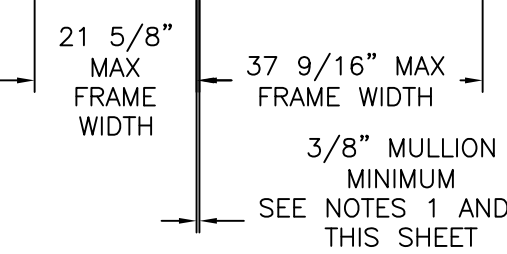
DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3



1/2" MULLION MINIMUM
SEE NOTE 3
THIS SHEET
& DETAILS B & C
SHEET 16

97 19/32" FRAME HEIGHT



SINGLE DOOR W/ DIRECT SET SIDELITE AND TRANSOM

EXTERIOR VIEW
OX SHOWN XO ALSO APPROVED

WITH PANOLOCK MULTI-POINT

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

- NOTES:
1. MAXIMUM ALLOWED BUILDUP TO BE 7".
 2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED.
 3. IF TRANSOM HEIGHT IS 16" OR LESS NO HORIZONTAL MULLION IS REQUIRED.

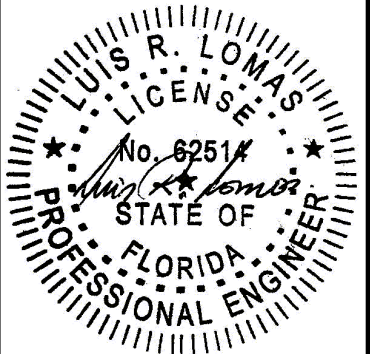
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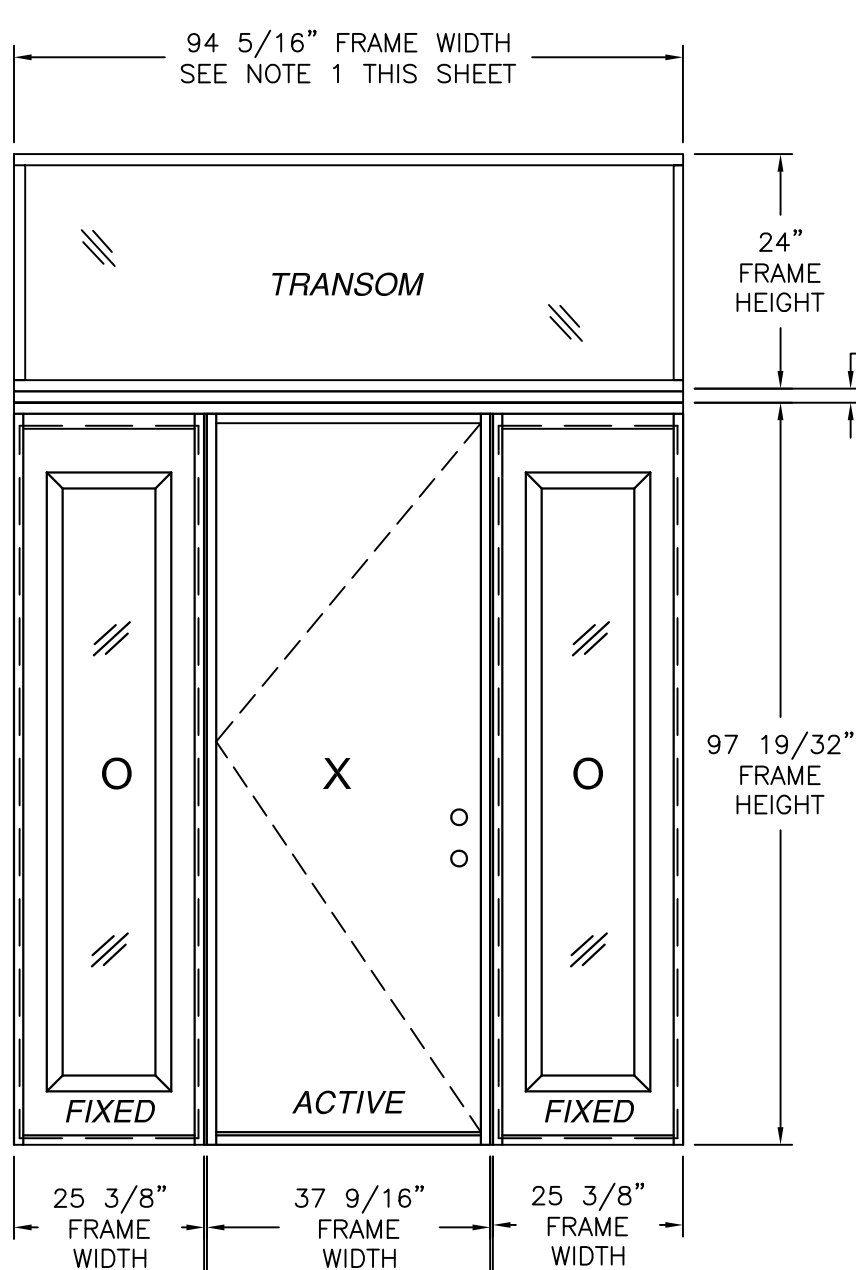
STEEL/FIBERGLASS INSWING OPAQUE SINGLE DOOR
W/SIDELITES & TRANSOM – IMPACT
ELEVATIONS

DRAWN: N.G.	DWG NO. 08-02037	REV J
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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



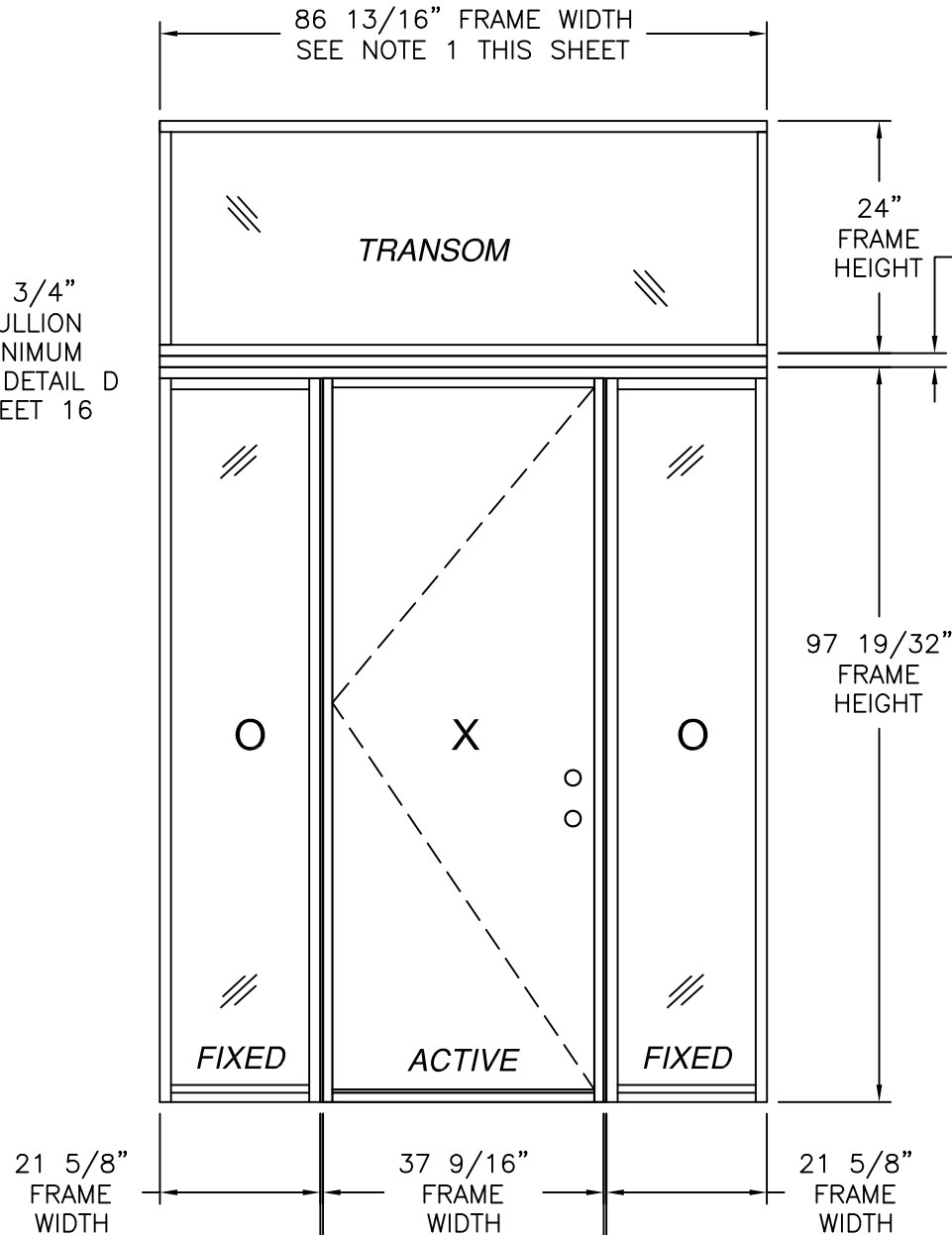
3/8" MULLION
MINIMUM
SEE NOTES
1 AND 2
THIS SHEET
& DETAILS A & C
SHEET 16

3/8" MULLION
MINIMUM
SEE NOTES
1 AND 2
THIS SHEET
& DETAILS A & C
SHEET 16

SINGLE DOOR W/ STD SIDELITES AND TRANSOM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3



3/8" MULLION
MINIMUM
SEE NOTES
1 AND 2
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SHEET 16

3/8" MULLION
MINIMUM
SEE NOTES
1 AND 2
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SHEET 16

SINGLE DOOR W/ DIRECT SET SIDELITES AND TRANSOM
EXTERIOR VIEW
WITH PANOLOCK MULTI-POINT

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

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1 3/4"
MULLION
MINIMUM
SEE DETAIL D
SHEET 16

NOTES:

1. MAXIMUM ALLOWED BUILDUP TO BE 3" AT EACH VERTICAL MULLION.
2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED

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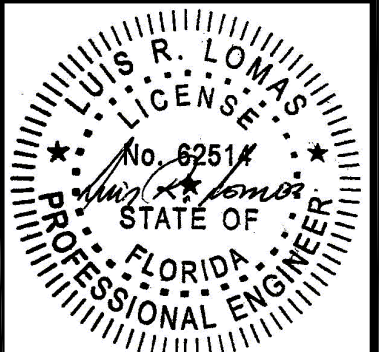
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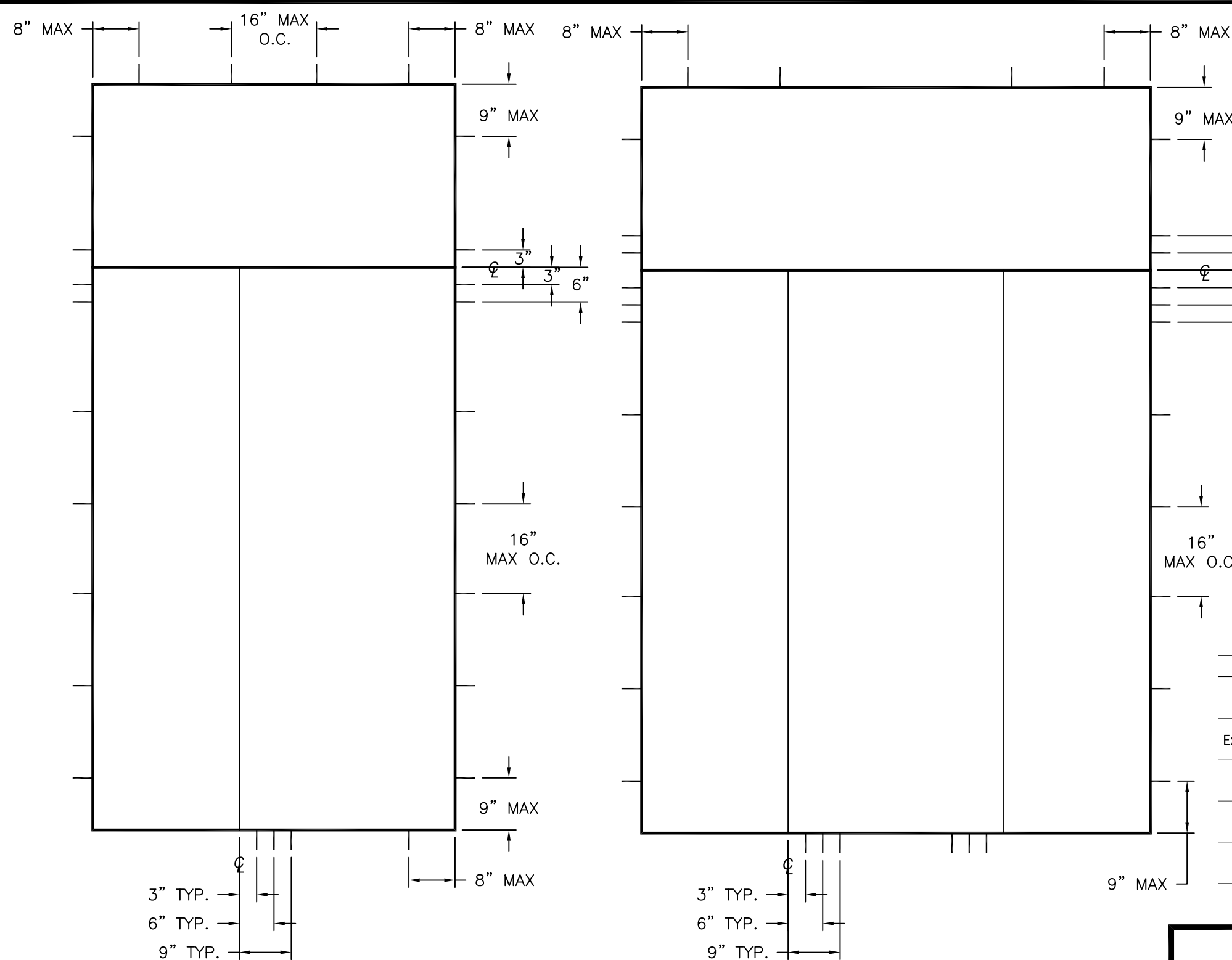
**STEEL/FIBERGLASS INSWING OPAQUE SINGLE DOOR
W/SIDELITES & TRANSOM - IMPACT
ELEVATIONS**

DRAWN: N.G.	DWG NO. 08-02037	REV J
SCALE NTS	DATE 05/22/13	SHEET 3 OF 17

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



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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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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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W/SIDELITES & TRANSOM – IMPACT
ANCHORING LAYOUTS

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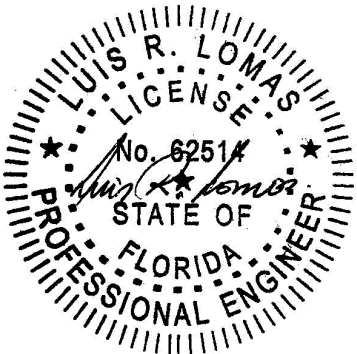
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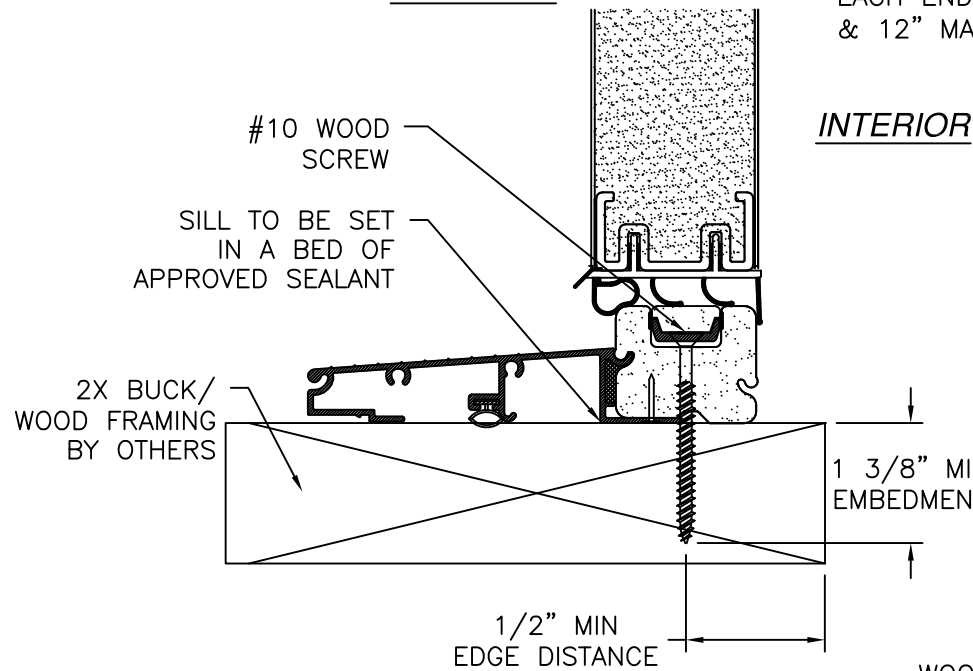
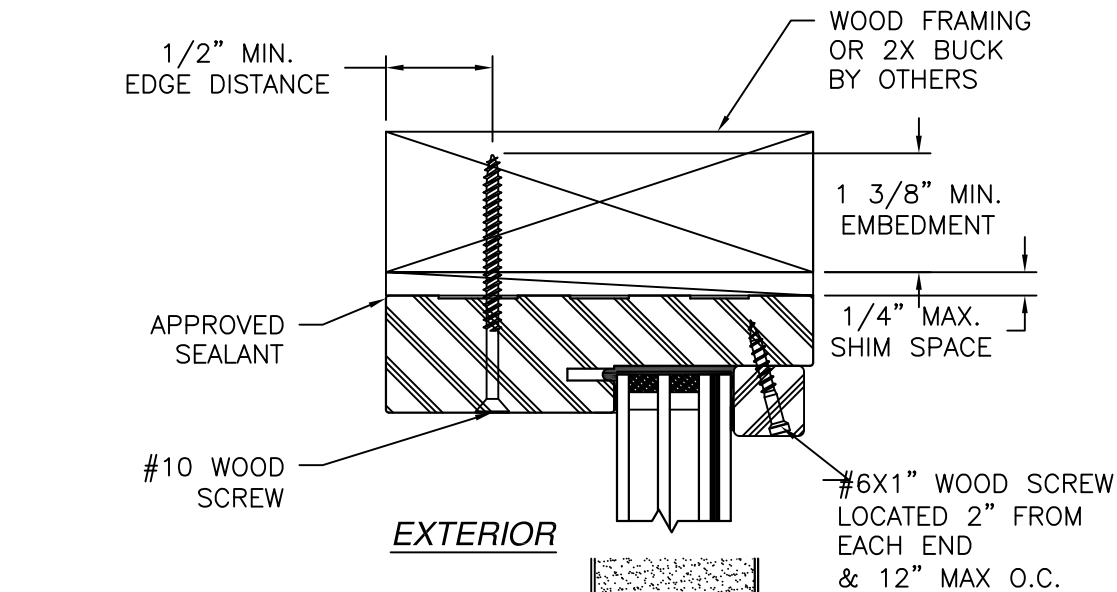
SHEET
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L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



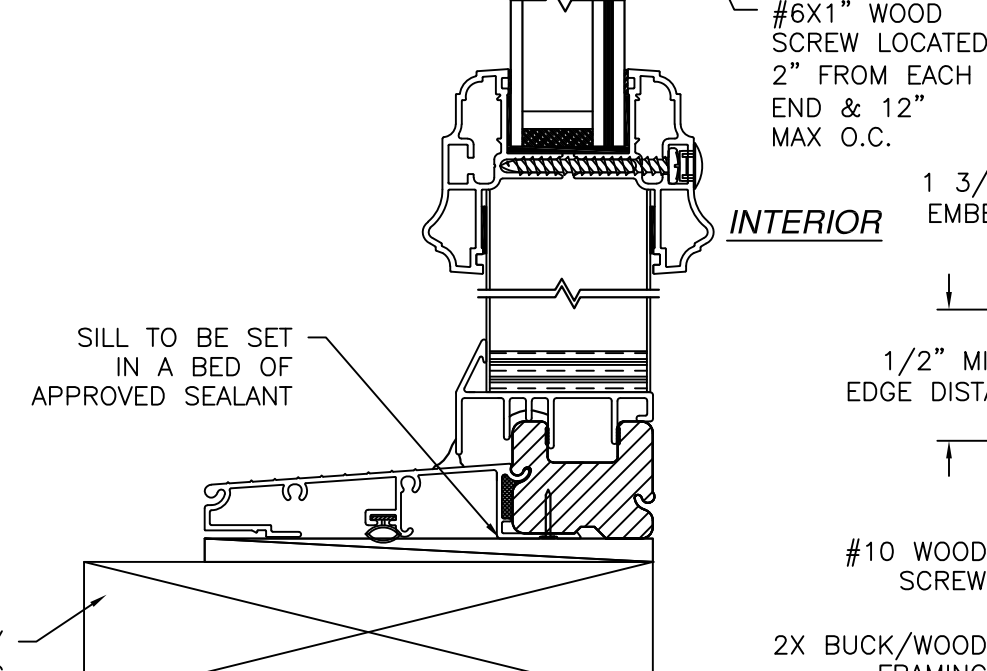
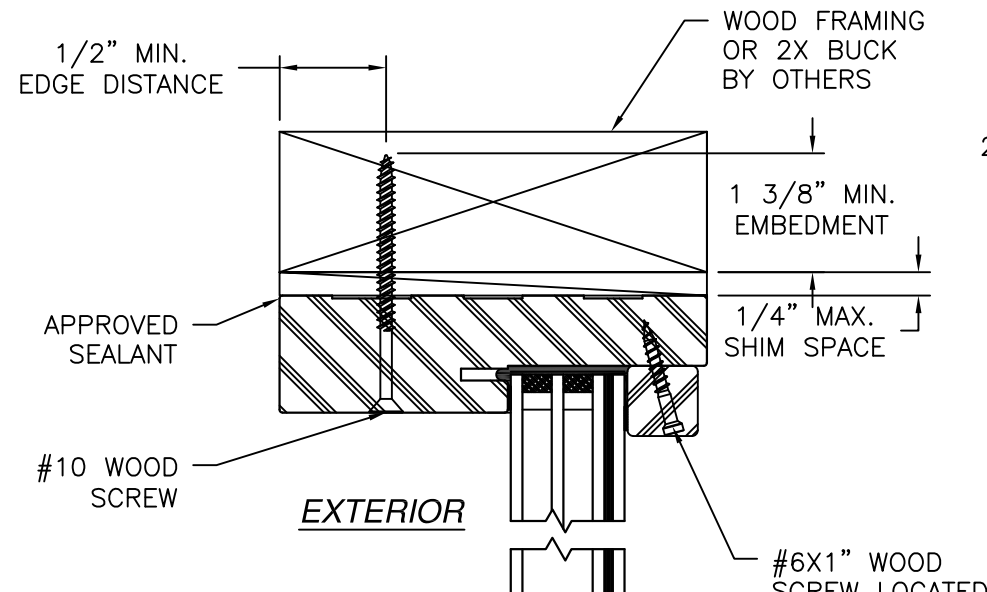
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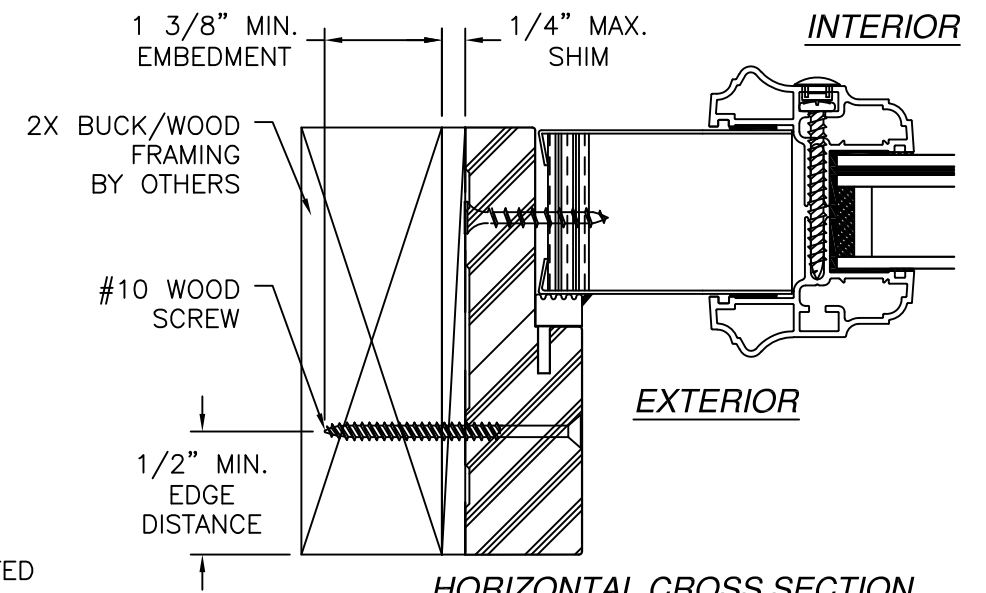
VERTICAL CROSS SECTION

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



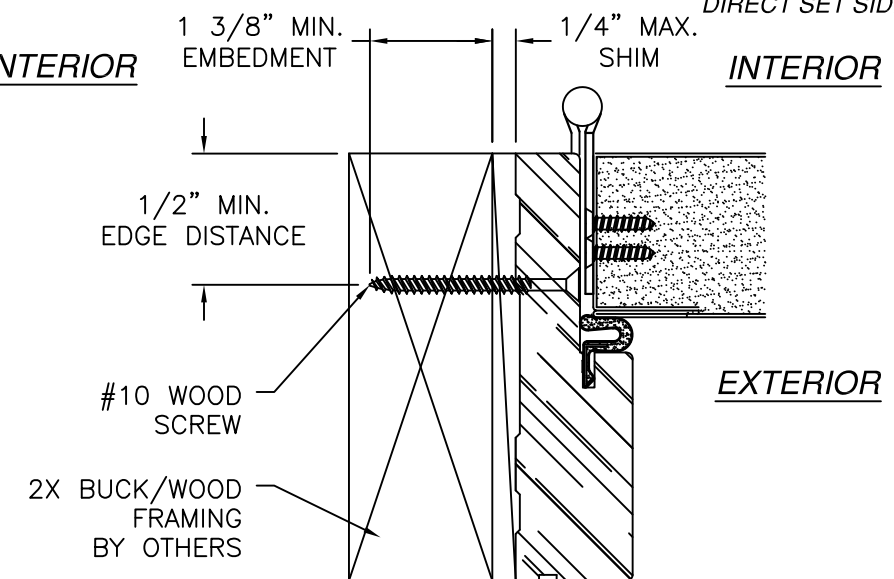
VERTICAL CROSS SECTION

SIDELITE AND TRANSOM INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



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

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NOTES:

- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
- PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

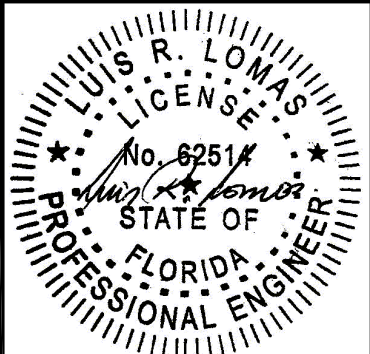
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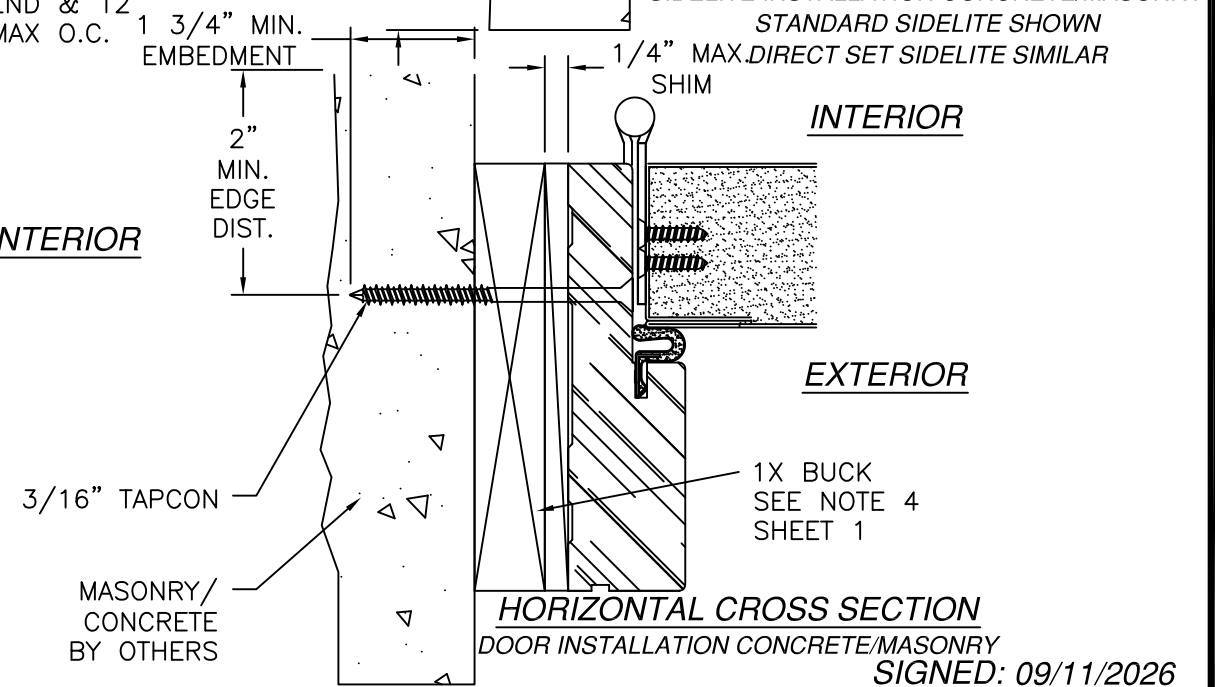
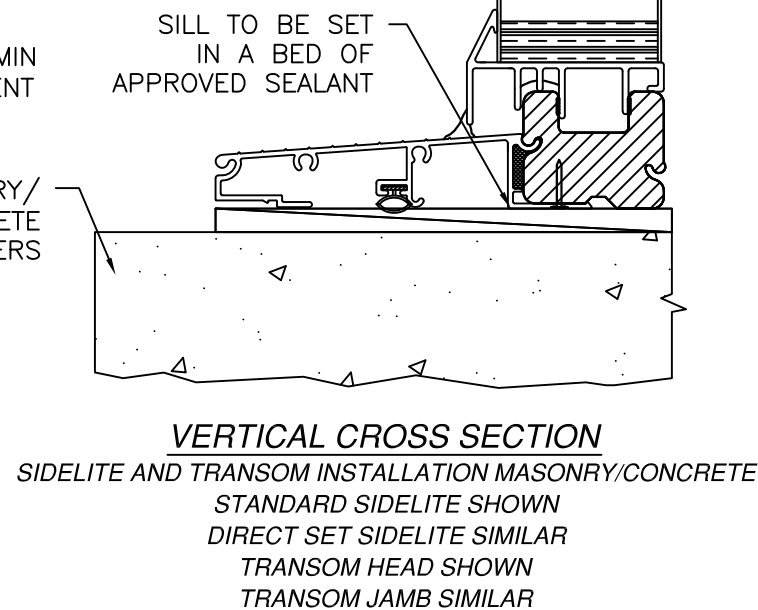
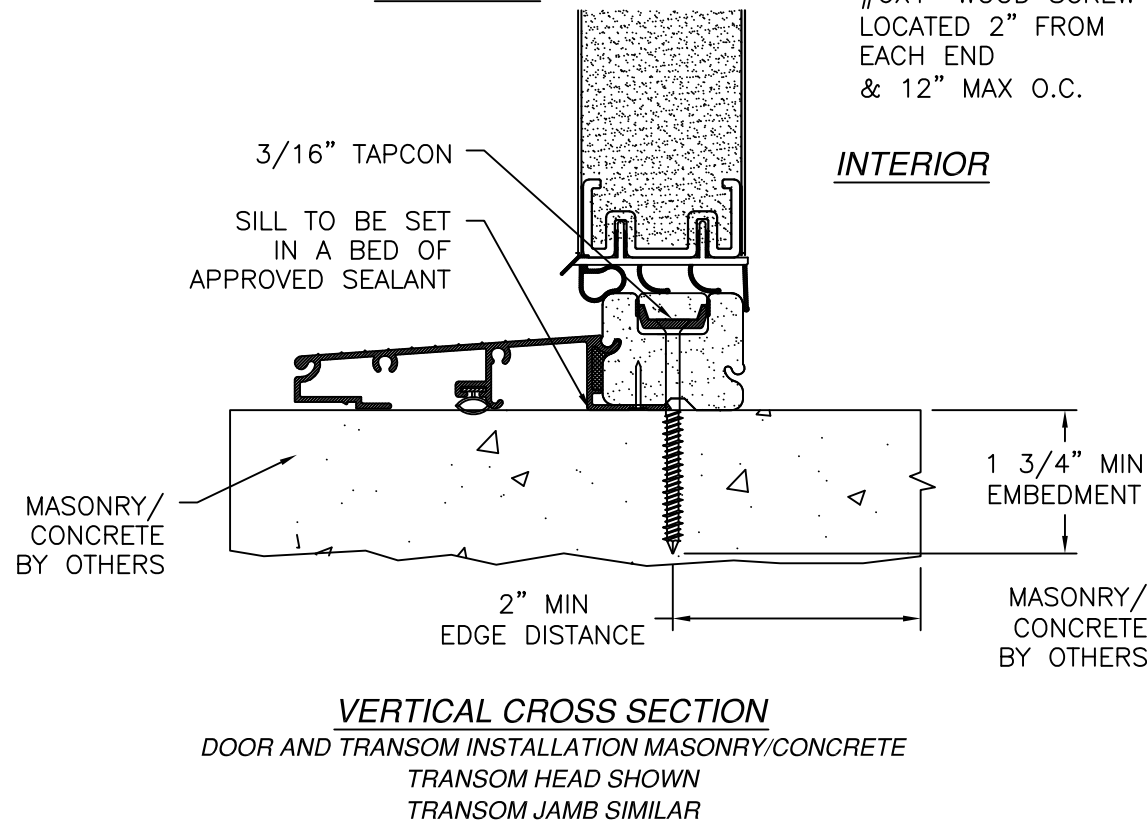
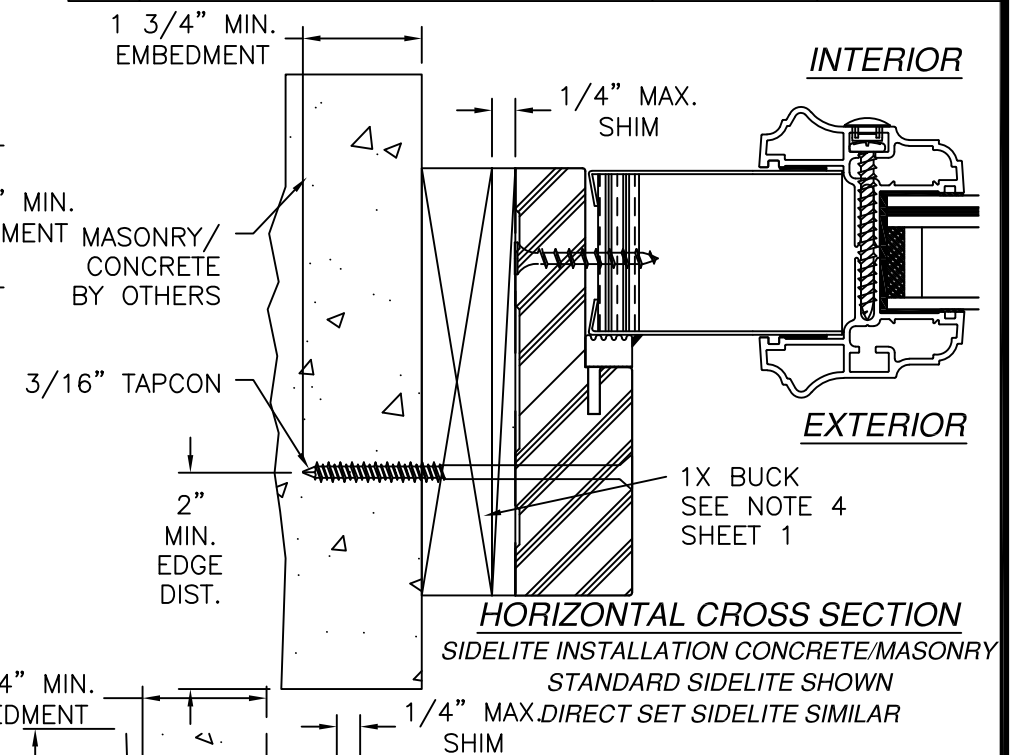
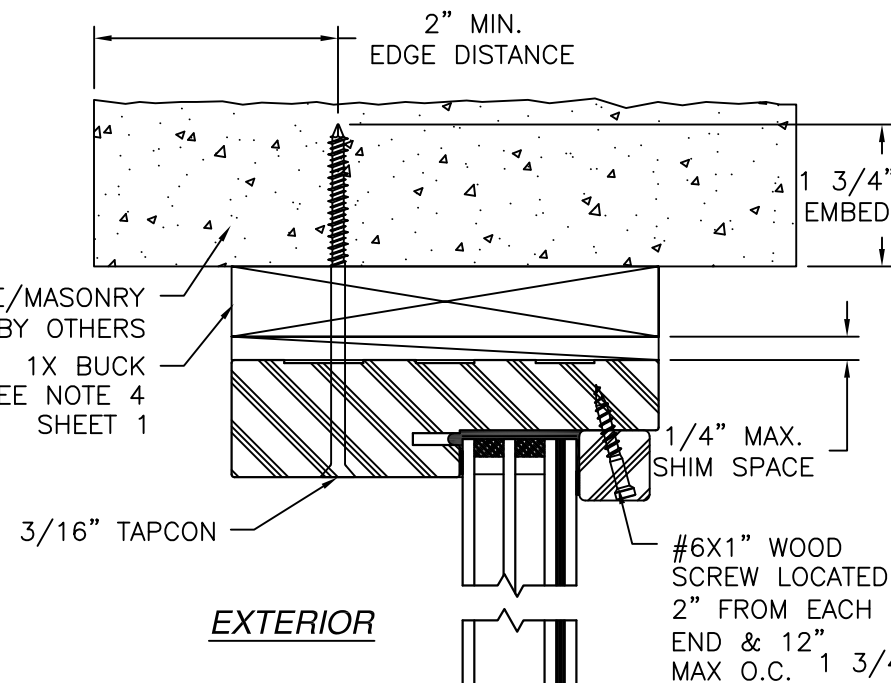
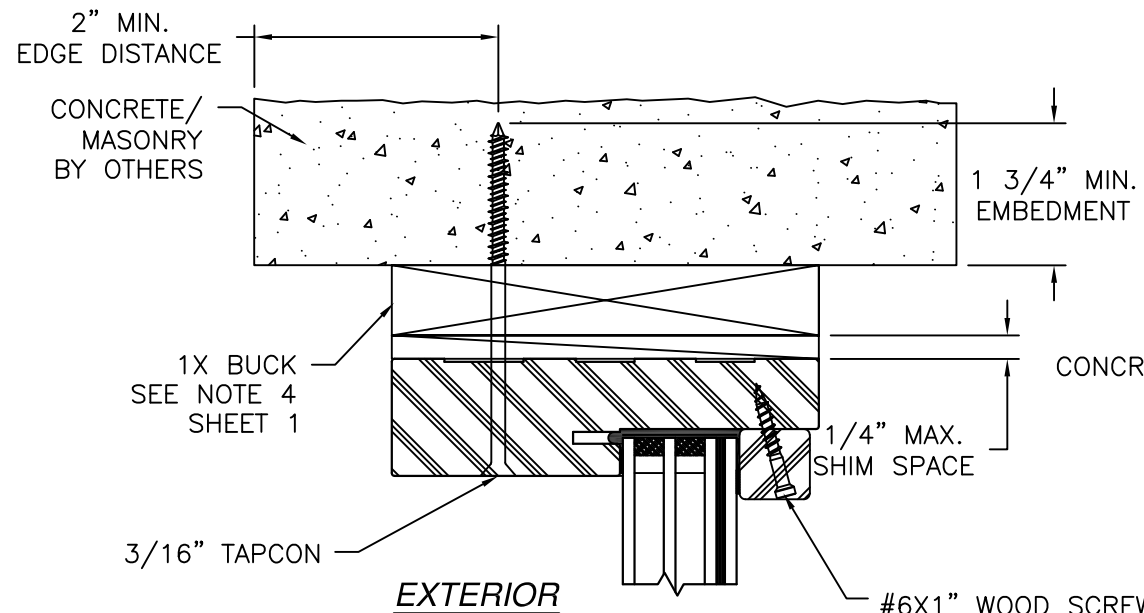
STEEL/FIBERGLASS INSWING OPAQUE SINGLE DOOR
W/SIDELITES & TRANSOM - IMPACT
INSTALLATION DETAILS

DRAWN: N.G.	DWG NO. 08-02037	REV J
SCALE NTS	DATE 05/22/13	SHEET 5 OF 17

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



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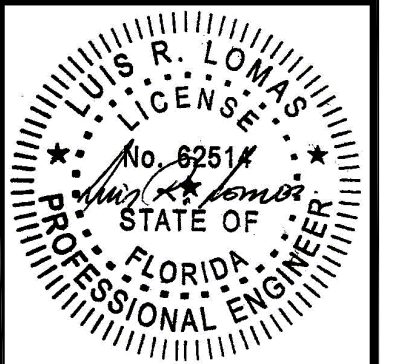
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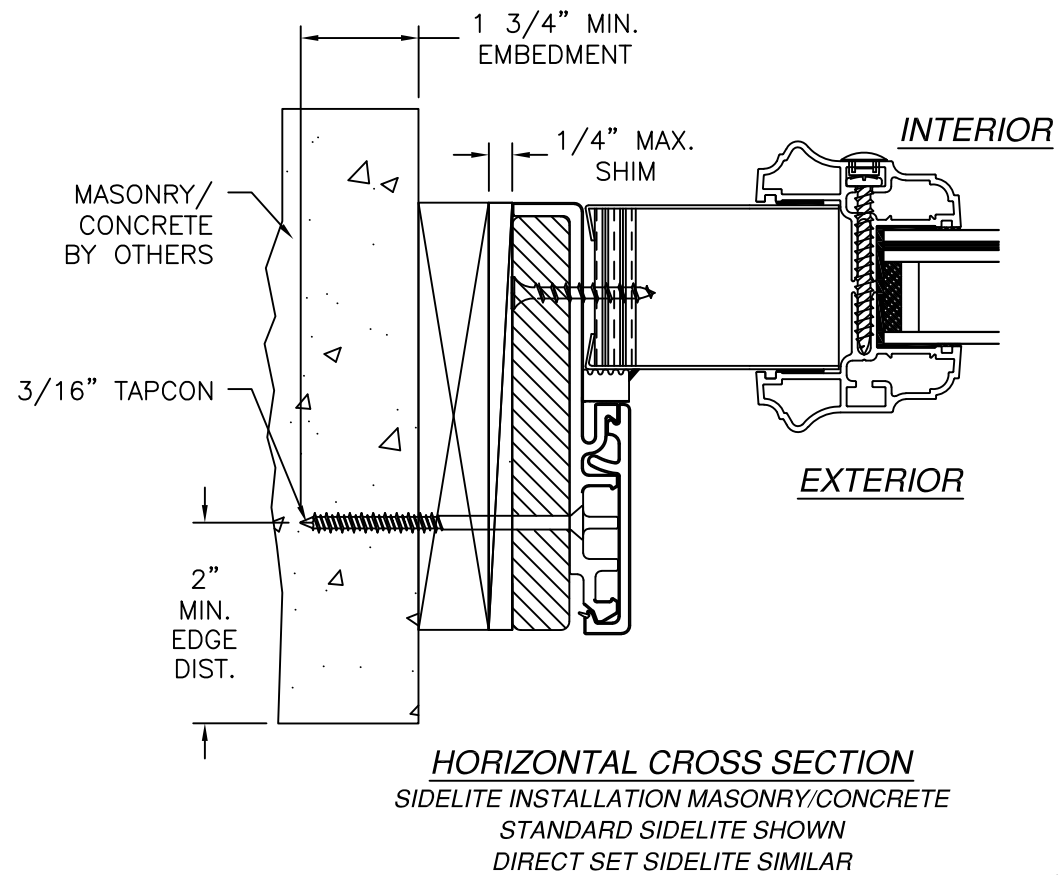
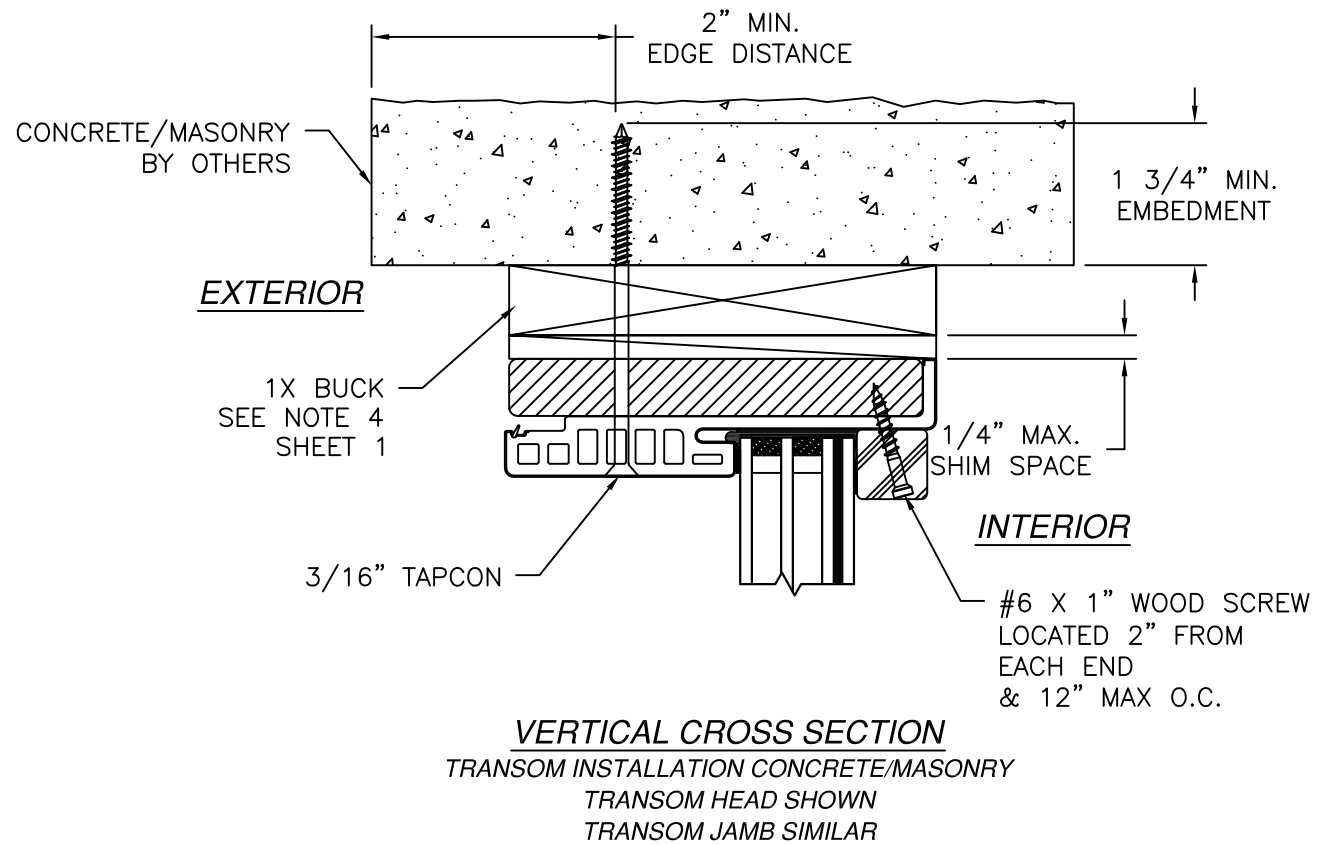
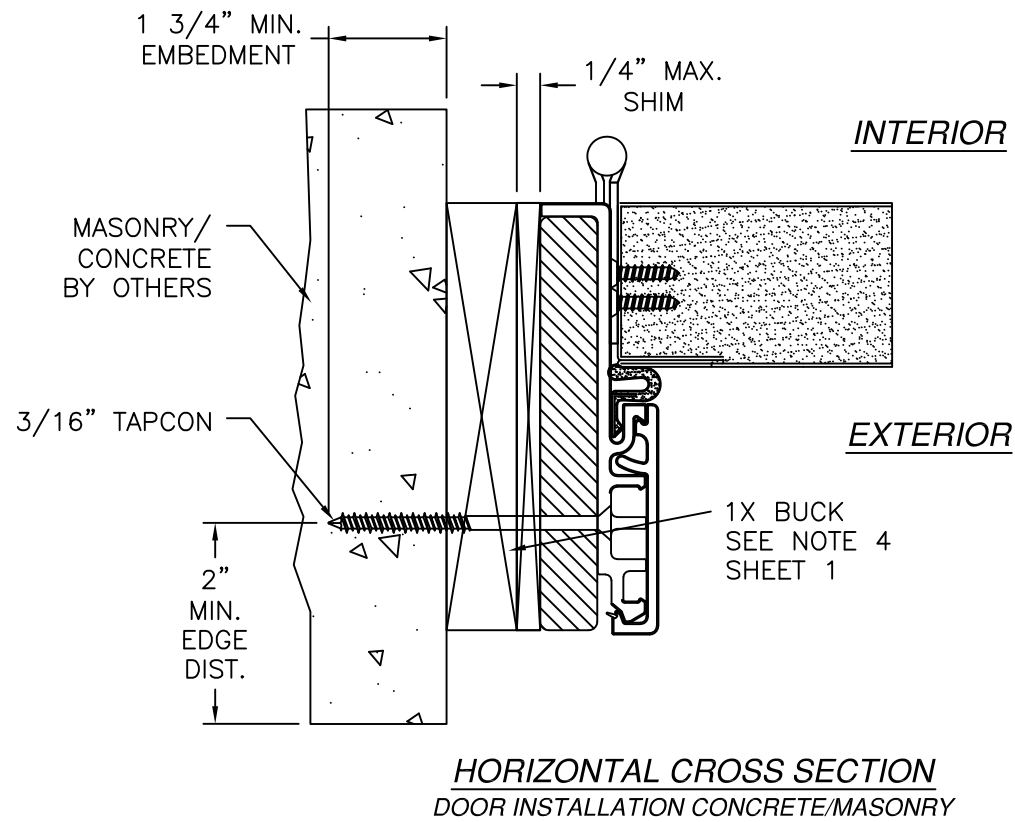
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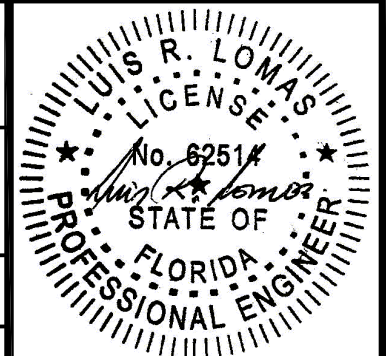
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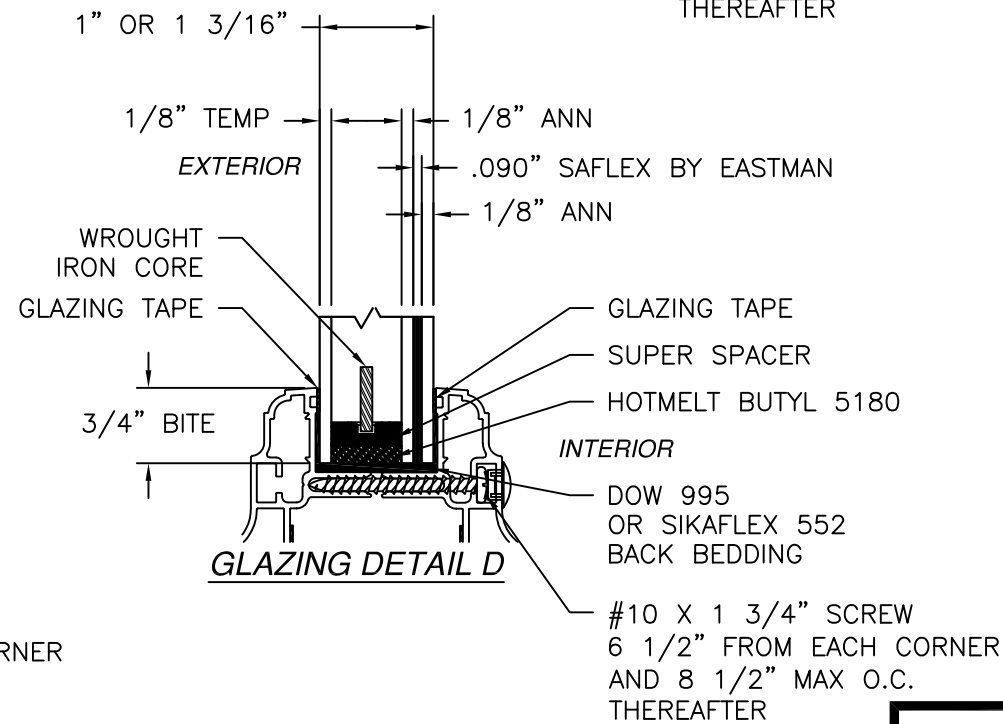
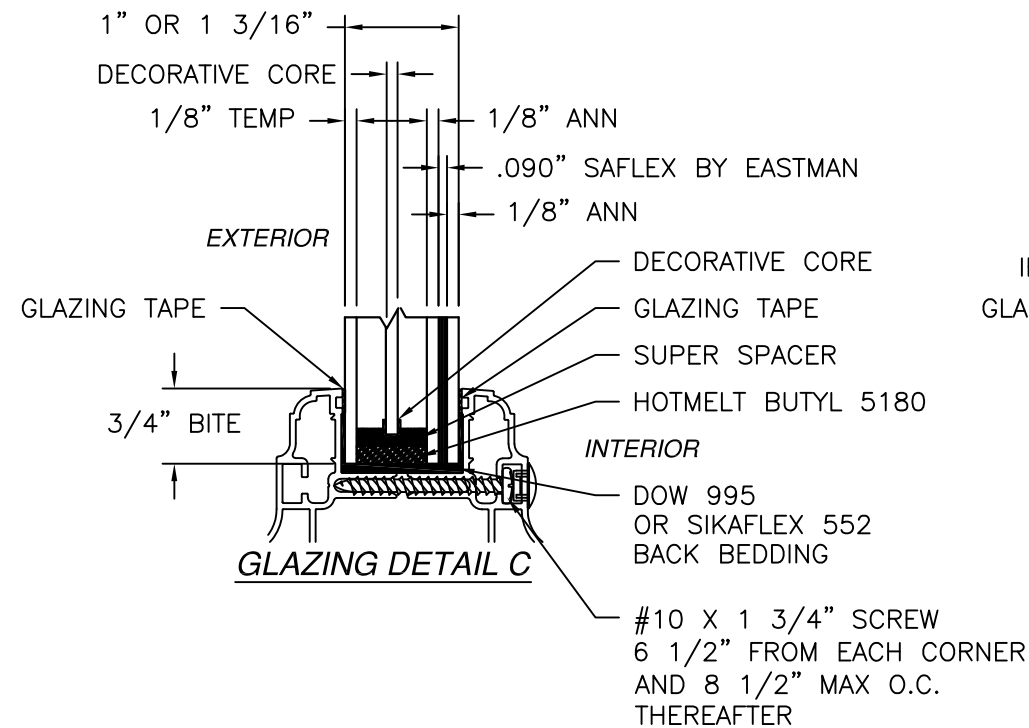
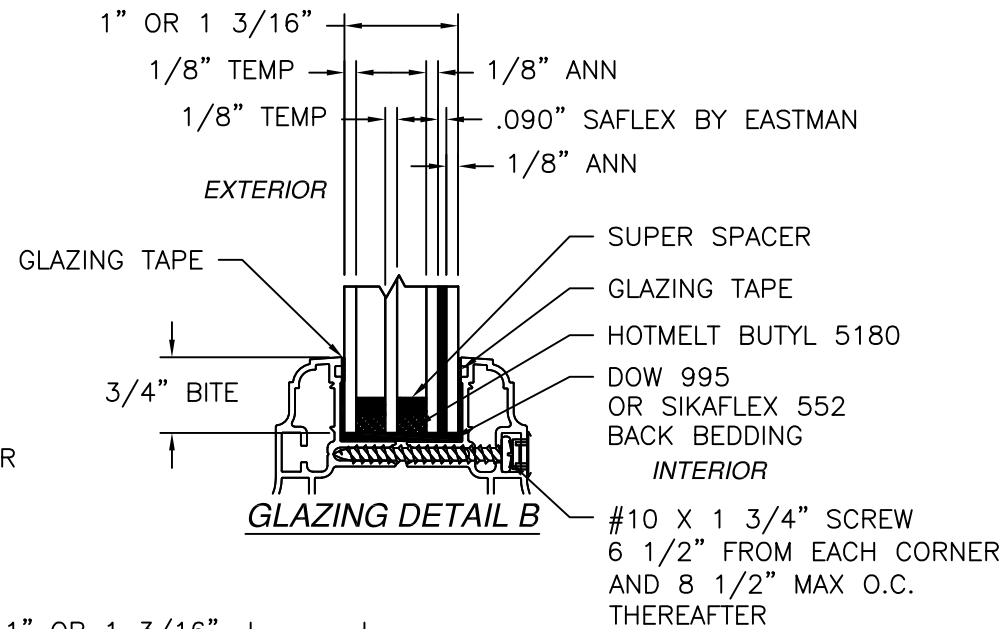
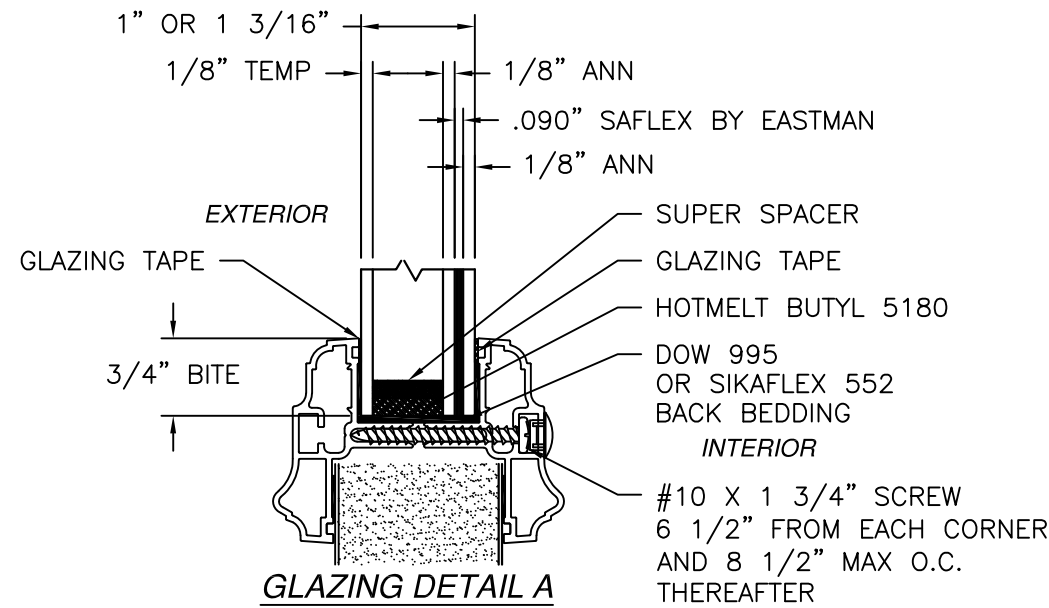
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STEEL/FIBERGLASS INSWING OPAQUE SINGLE DOOR W/SIDELITES & TRANSOM – IMPACT INSTALLATION DETAILS W/FUSION FRAME		
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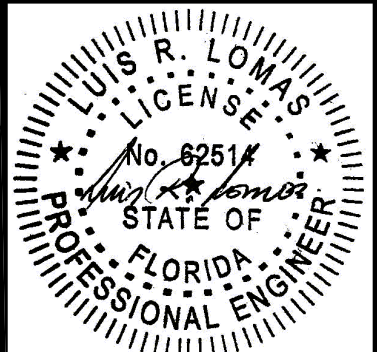
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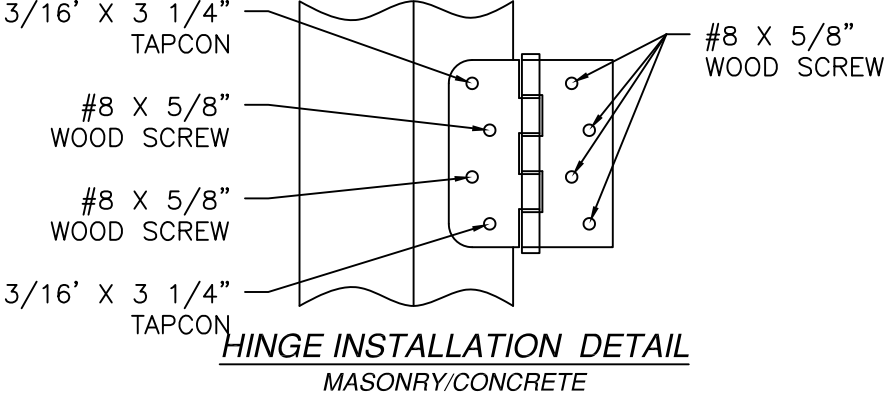
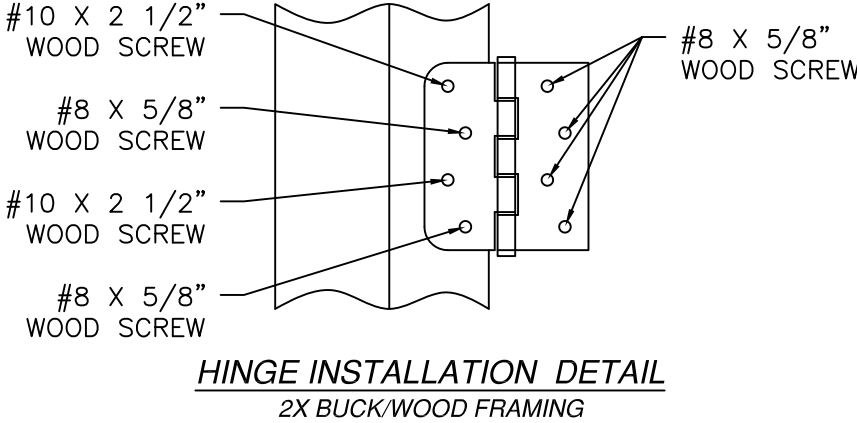
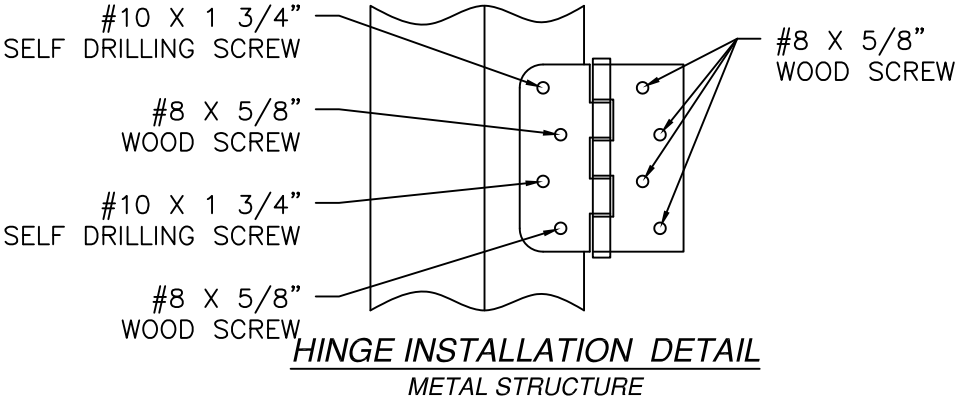
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STEEL/FIBERGLASS INSWING OPAQUE SINGLE DOOR W/SIDELITES & TRANSOM - IMPACT GLAZING DETAILS		
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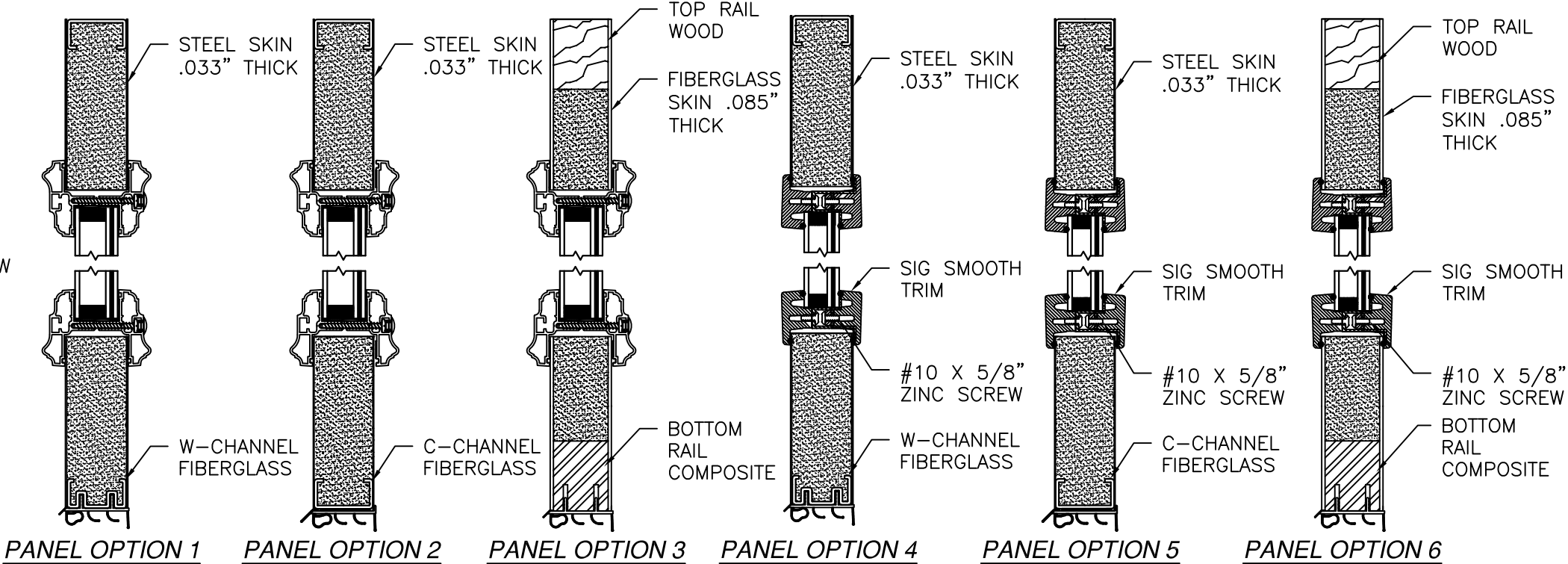


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APPROVED SIDELITE SLABS



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

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REV J

SCALE NTS

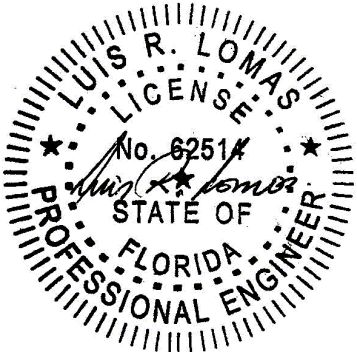
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SHEET 12 OF 17

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208 7th Ave, INDIALANTIC, FL 32903

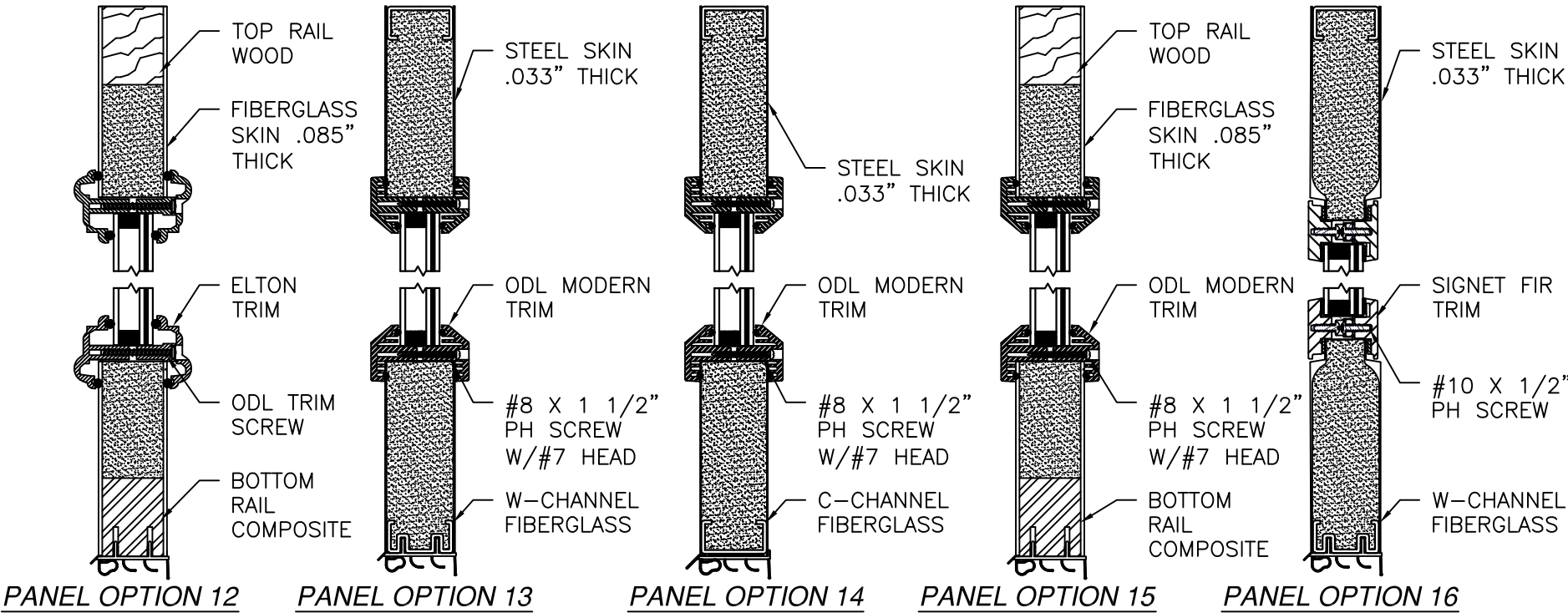
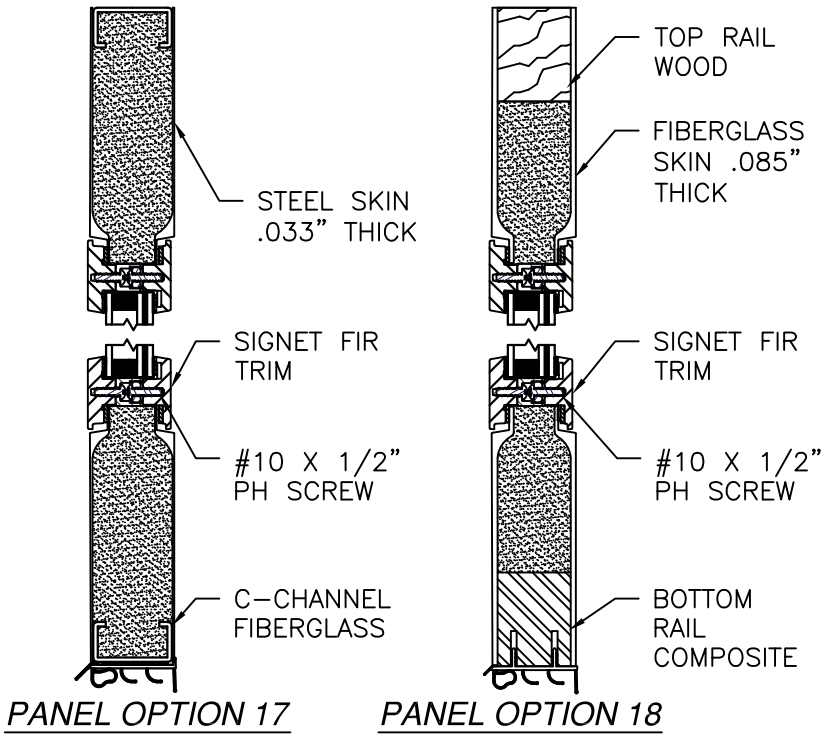
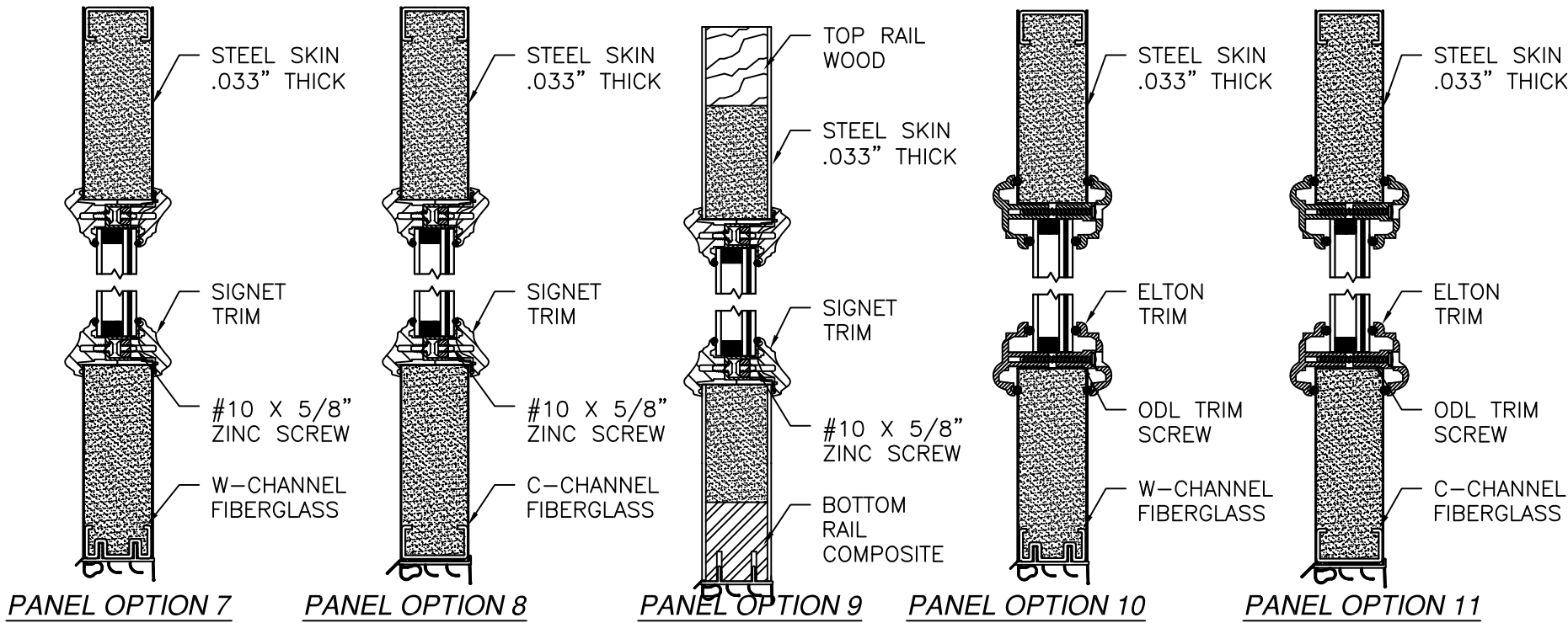
434-688-0609 rllomas@lrlomaspe.com



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

APPROVED SIDELITE SLABS

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



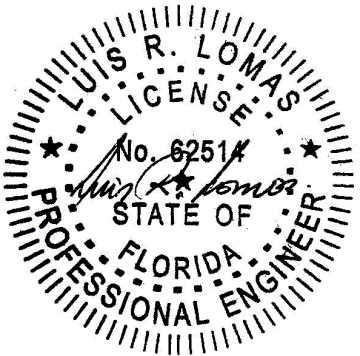
SIGNED: 09/11/2026

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

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

DRAWN: N.G.	DWG NO. 08-02037	REV J
SCALE NTS	DATE 05/22/13	SHEET 13 OF 17

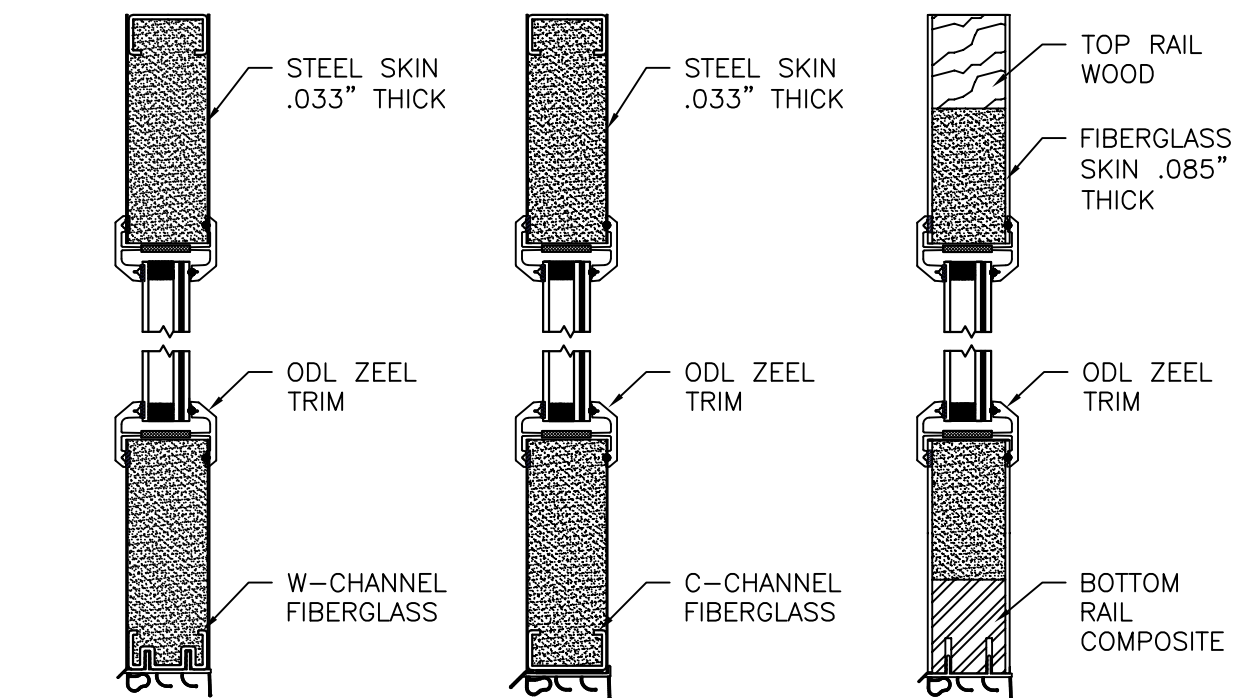
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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

APPROVED SIDELITE SLABS

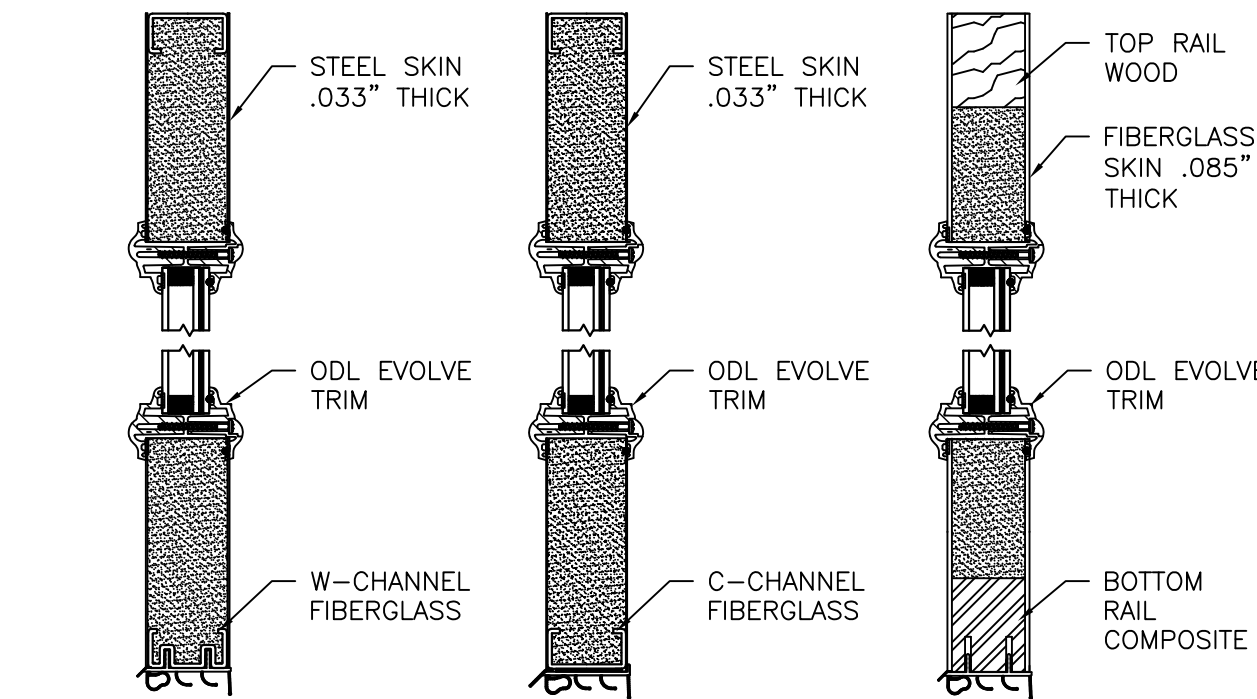
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



PANEL OPTION 19

PANEL OPTION 20

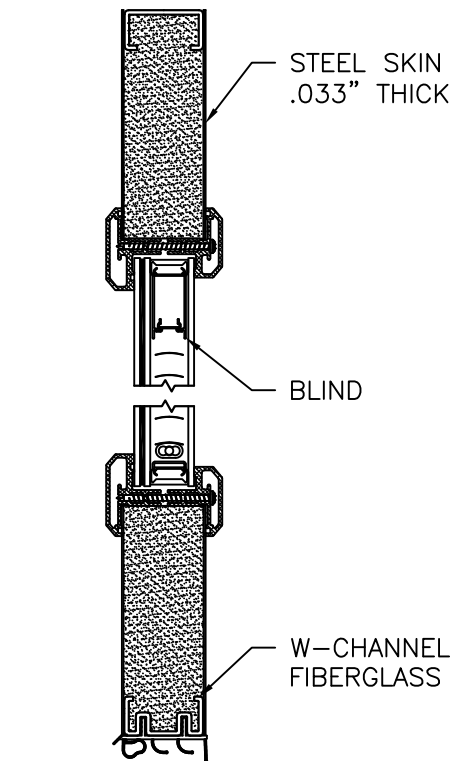
PANEL OPTION 21



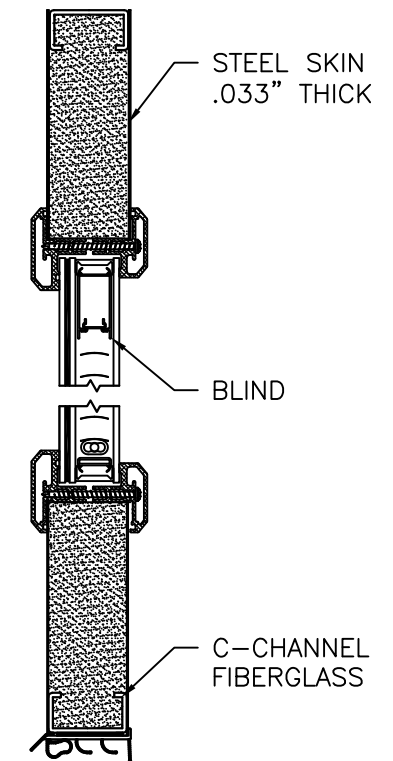
PANEL OPTION 22

PANEL OPTION 23

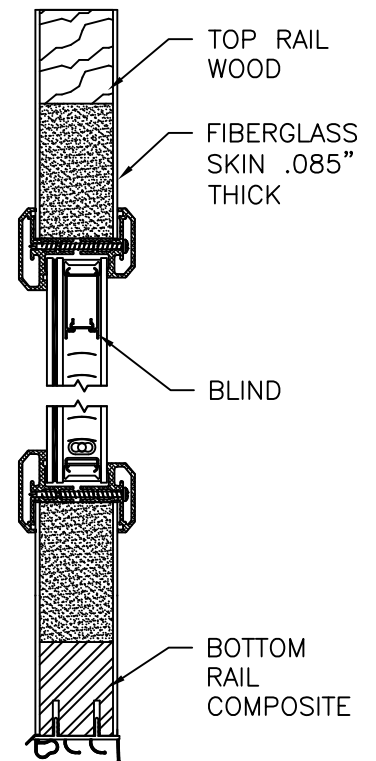
PANEL OPTION 24



PANEL OPTION 25
SEVERE WEATHER DUAL
GLAZED BLINDS



PANEL OPTION 26
SEVERE WEATHER DUAL
GLAZED BLINDS



PANEL OPTION 27
SEVERE WEATHER DUAL
GLAZED BLINDS

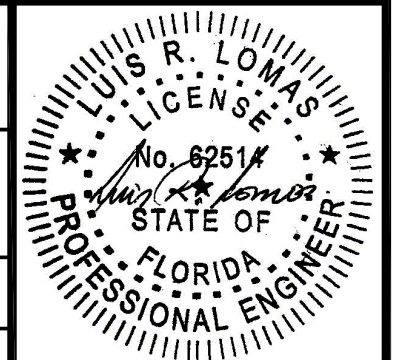
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

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

DRAWN: N.G.	DWG NO. 08-02037	REV J
SCALE NTS	DATE 05/22/13	SHEET 14 OF 17

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com

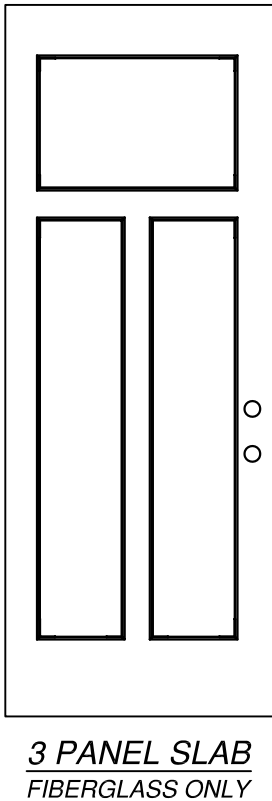
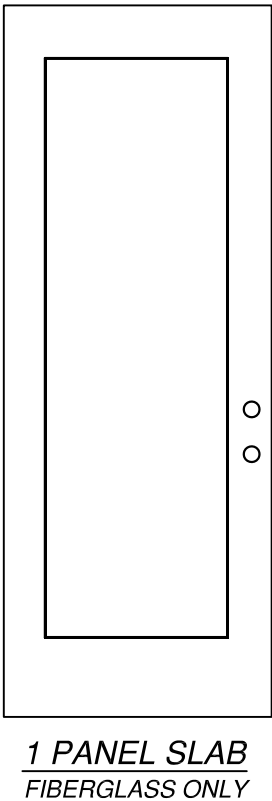
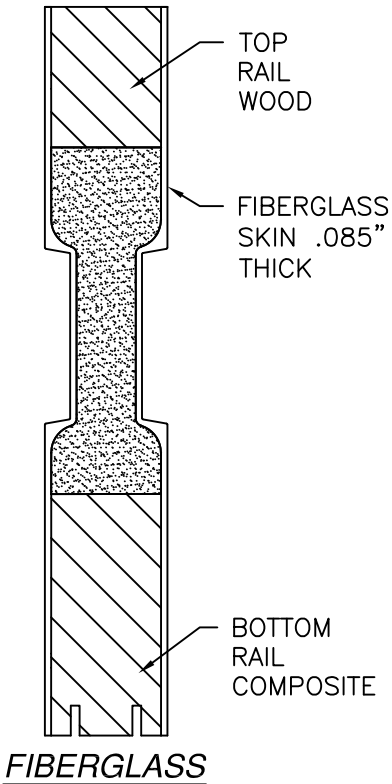
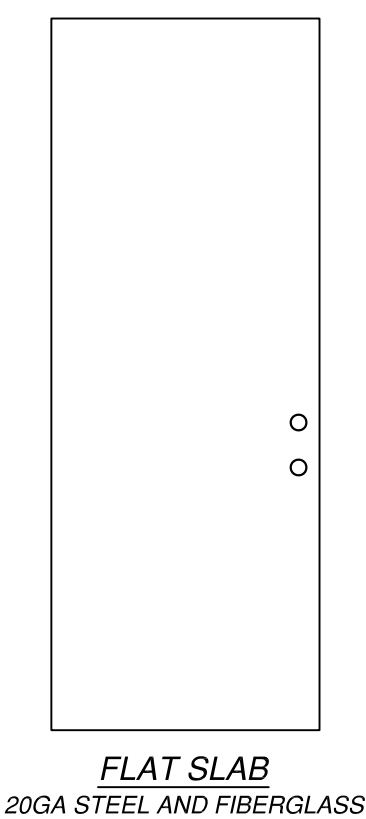
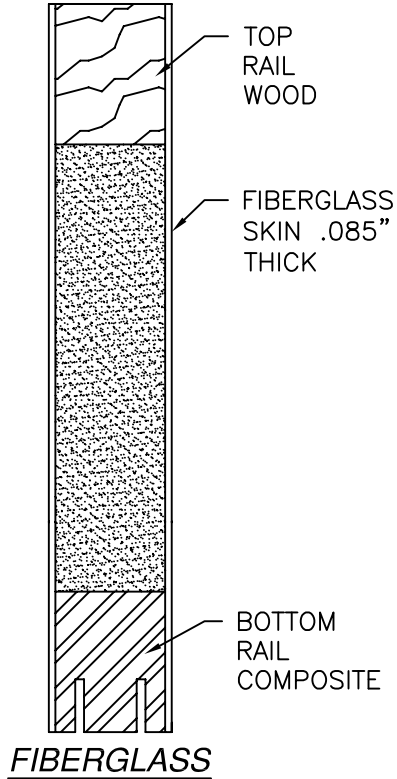
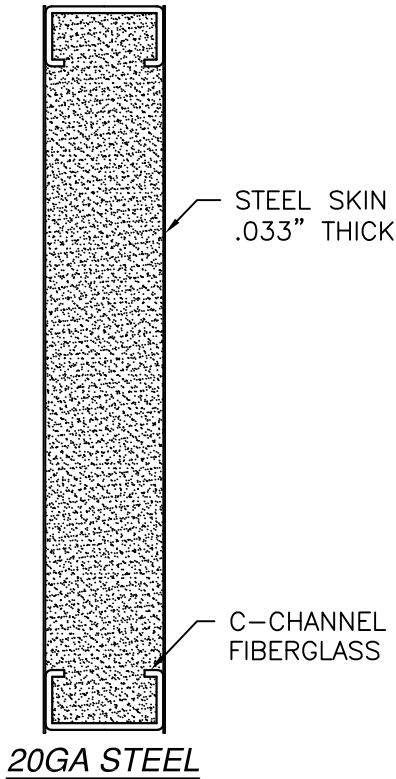
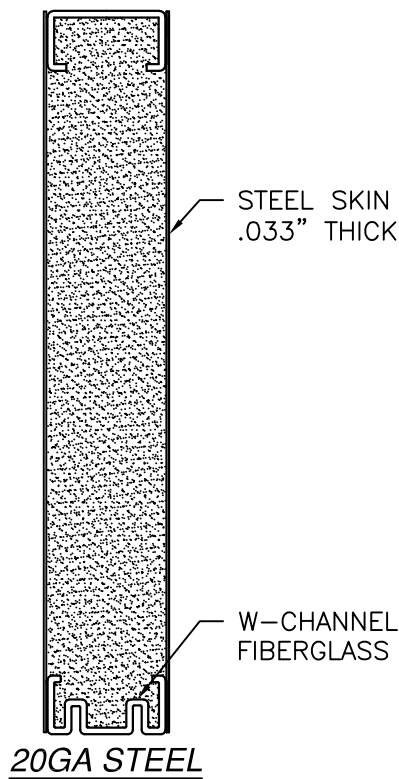
SIGNED: 09/11/2026



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

APPROVED DOOR SLABS AND CROSS SECTIONS

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



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

STEEL/FIBERGLASS INSWING OPAQUE SINGLE DOOR
W/SIDELITES & TRANSOM – IMPACT
APPROVED SLABS

DRAWN:
N.G.

DWG NO.
08-02037

REV
J

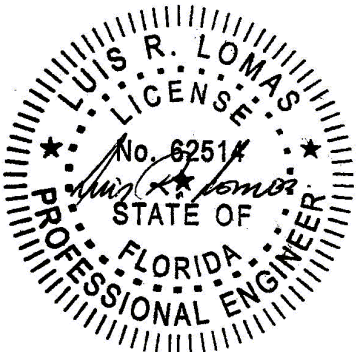
SCALE NTS

DATE 05/22/13

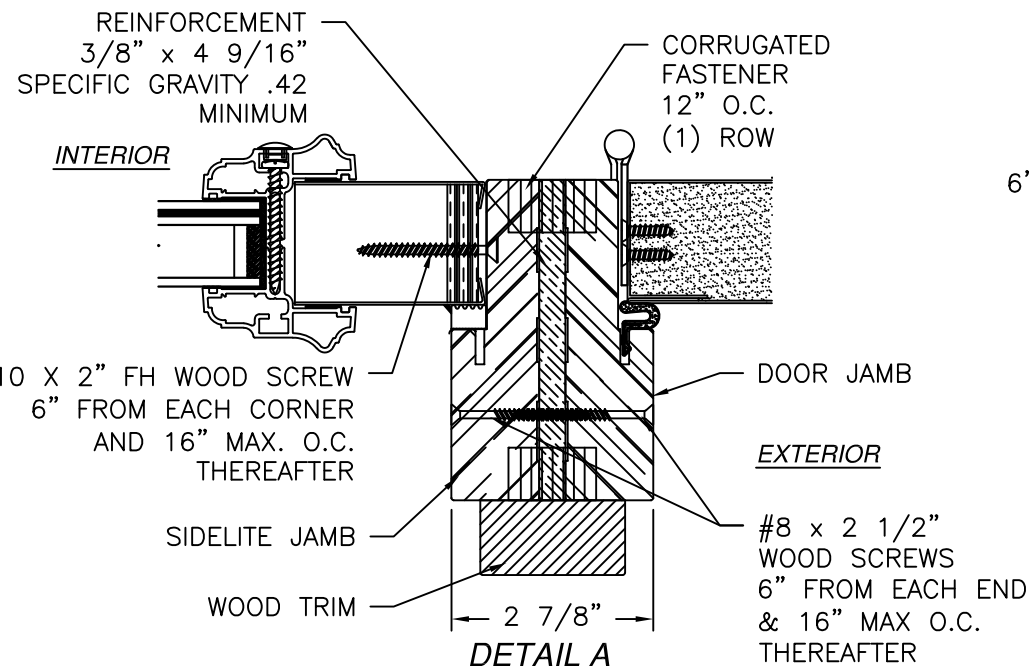
SHEET 15 OF 17

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

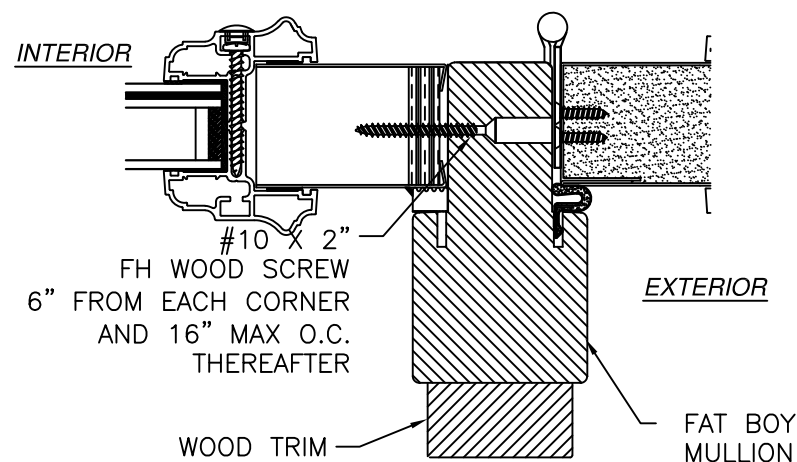
SIGNED: 09/11/2026



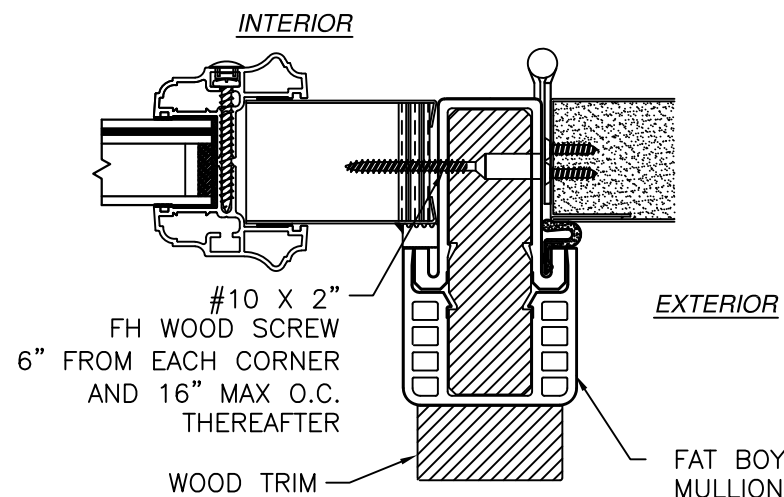
Luis R. Lomas P.E.
FL No.: 62514



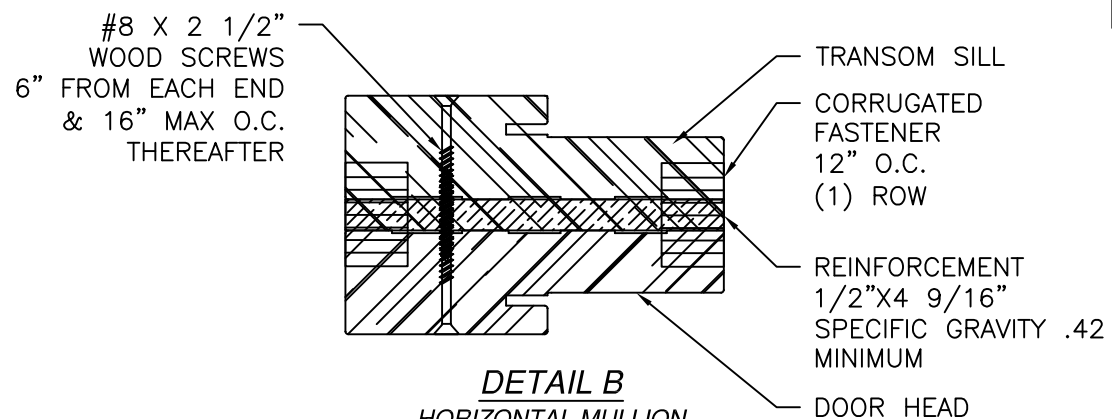
DETAIL A
VERTICAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



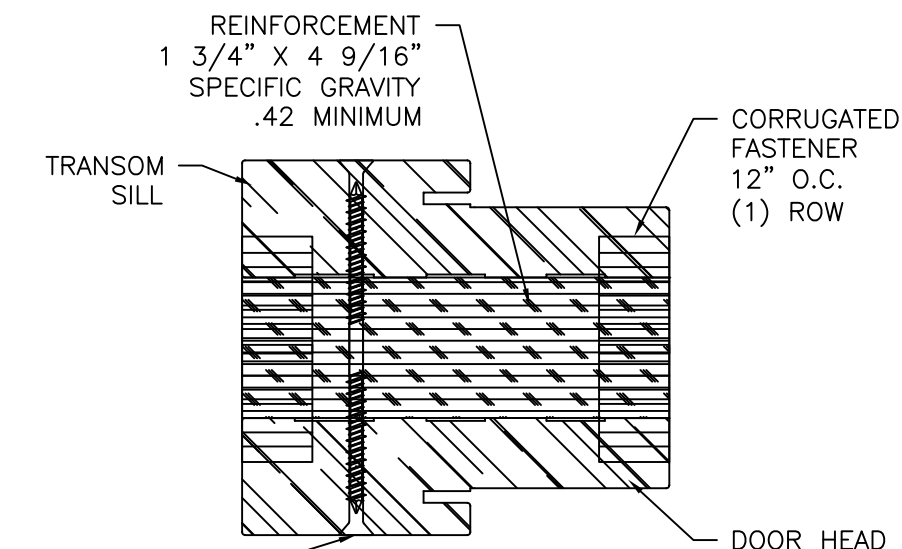
DETAIL C
WITH FAT BOY MULLION



DETAIL C
WITH HYBRID FAT BOY MULLION



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

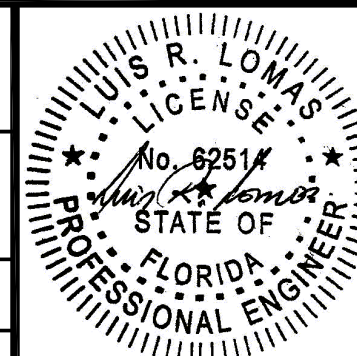


DETAIL D
HORIZONTAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR

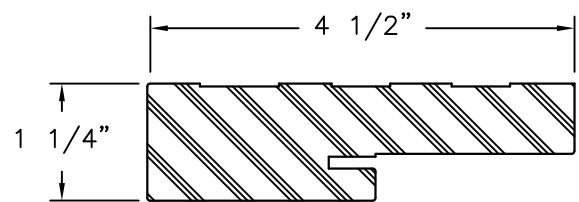
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.

SIGNED: 09/11/2026

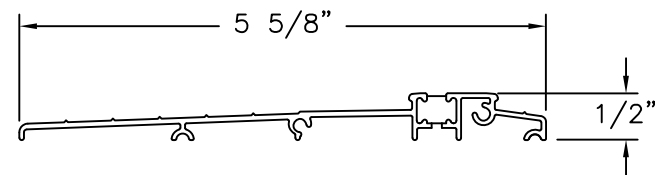
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE SINGLE DOOR W/SIDELITES & TRANSOM - IMPACT MULLION DETAILS		
DRAWN: N.G.	DWG NO. 08-02037	REV J
SCALE NTS	DATE 05/22/13	SHEET 16 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



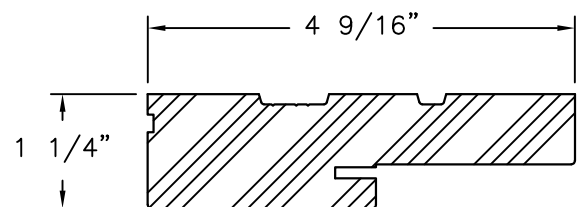
Luis R. Lomas P.E.
FL No.: 62514



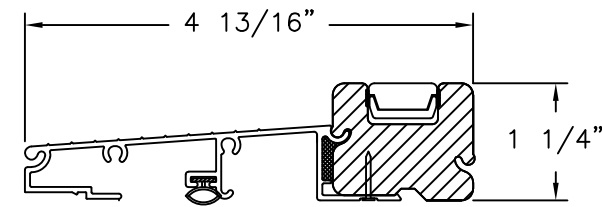
COMPOSITE FRAME PROFILE



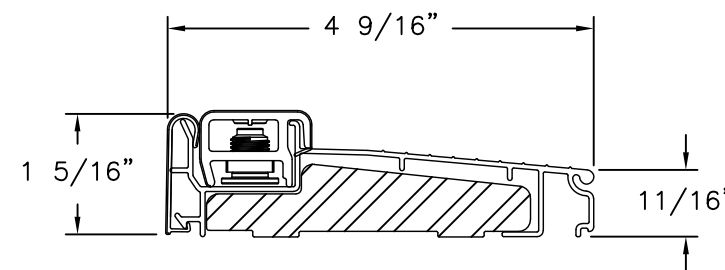
ADA THRESHOLD



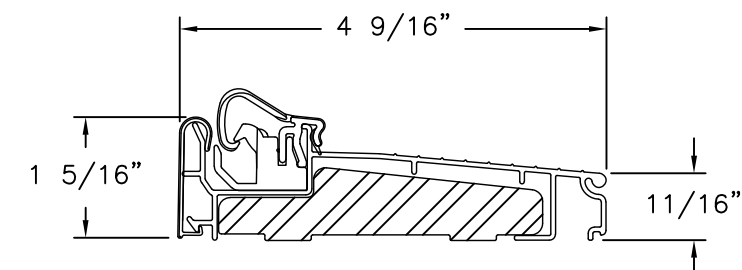
WOOD FRAME PROFILE



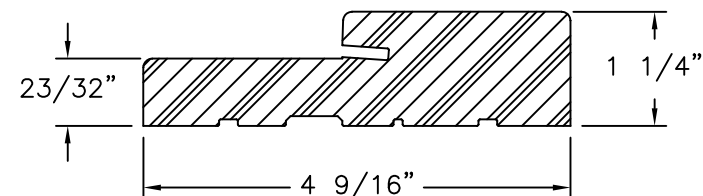
SAHARA INSWING THRESHOLD



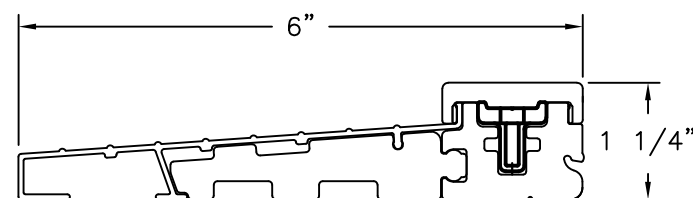
INSWING SILL ZAIL4565



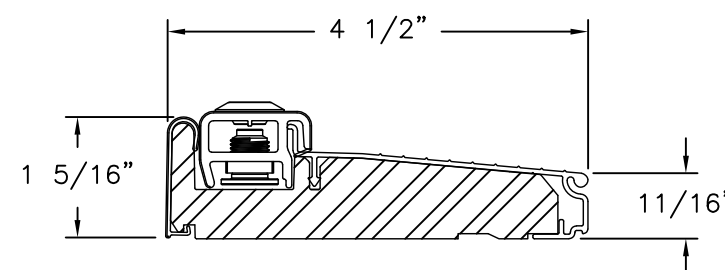
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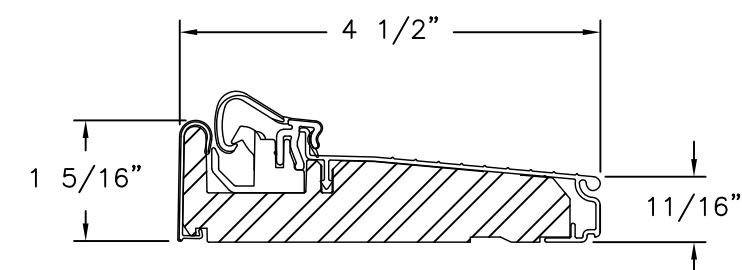
FRAMESAVER
COMPOSITE



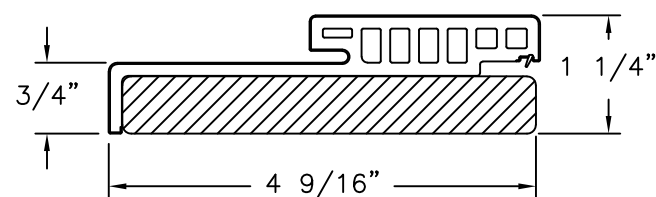
STANDARD INSWING THRESHOLD



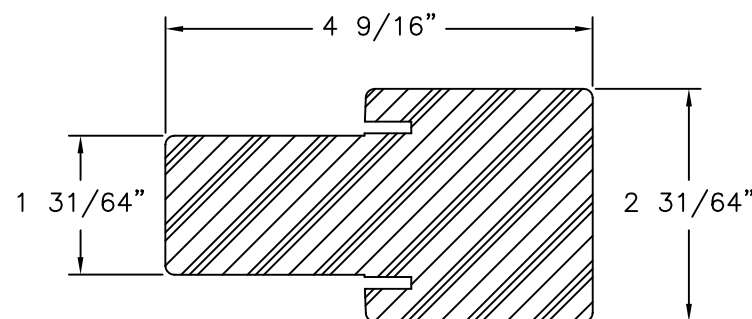
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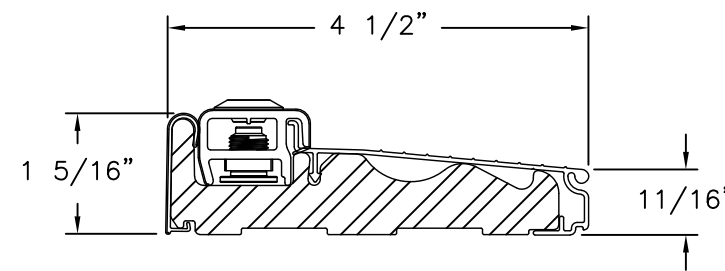
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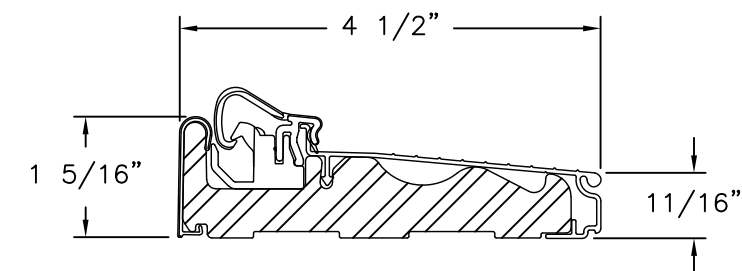
HYBRID HEAD
WOOD/COMPOSITE



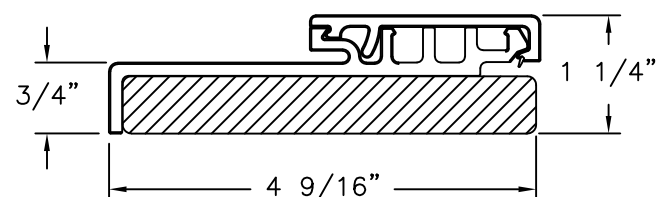
FAT BOY MULLION
COMPOSITE



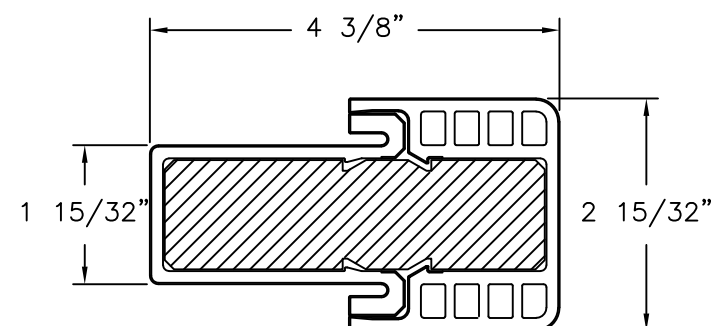
INSWING SILL ZAILH4565



INSWING SILL ZACLH4565



HYBRID JAMB
WOOD/COMPOSITE



HYBRID FAT BOY MULLION
COMPOSITE

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2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE SINGLE DOOR
W/SIDELITES & TRANSOM - IMPACT
COMPONENTS

DRAWN:
N.G.

DWG NO.
08-02037

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J

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NTS

DATE
05/22/13

SHEET
17 OF 17

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

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

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