

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	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. SIDELITES UNITS 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 OUTSWING GLAZED DOUBLE DOOR
WITH SIDELITES – IMPACT
NOTES

DRAWN:
J.L.

DWG NO.
08-02022

REV
J

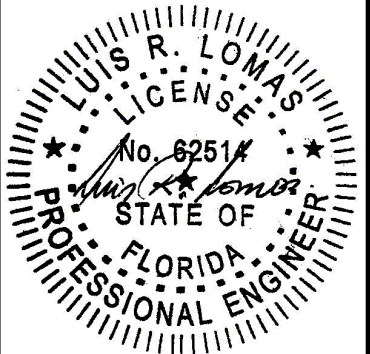
SCALE NTS

DATE 05/10/13

SHEET 1 OF 16

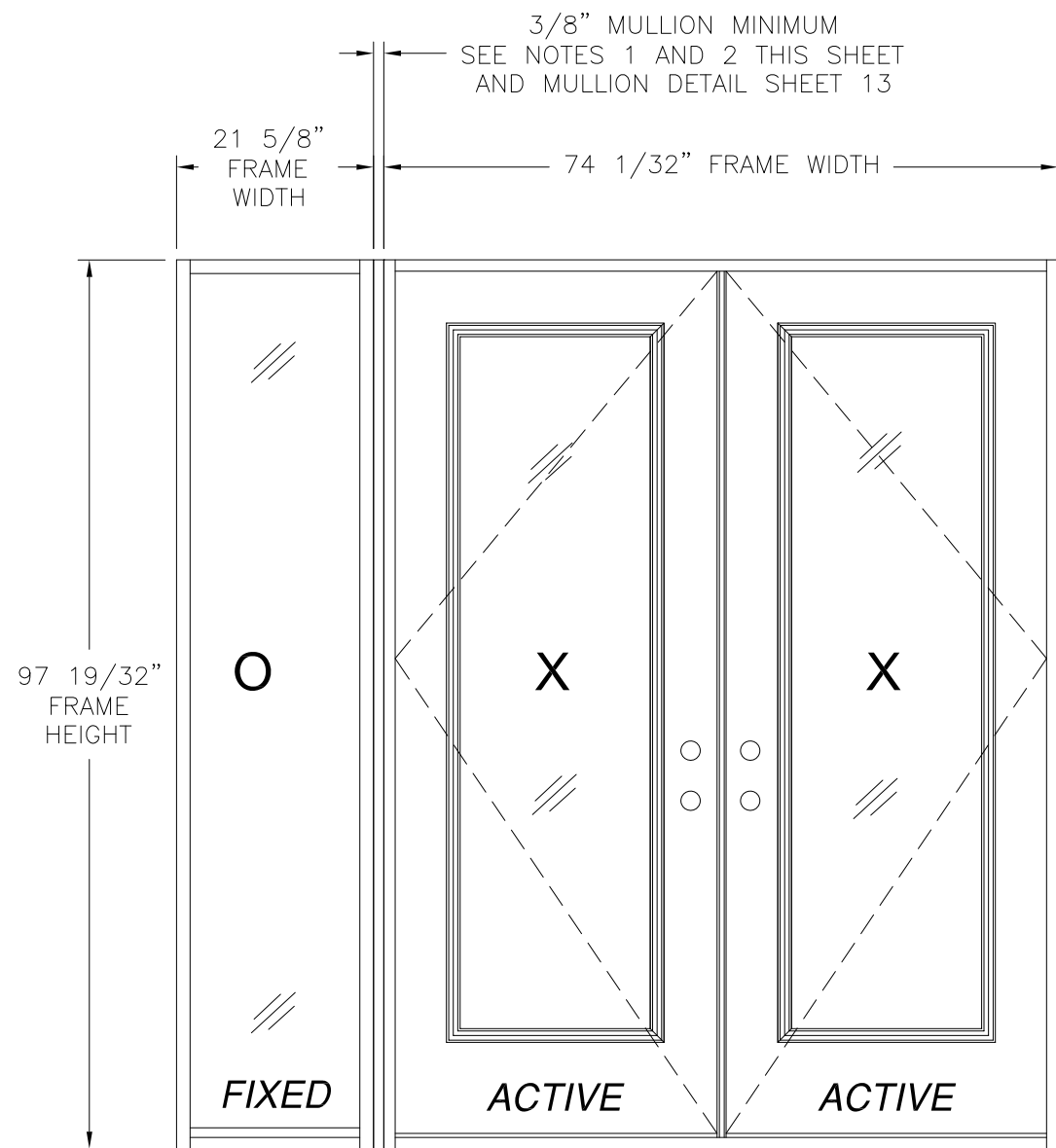
L. ROBERTO LOMAS P.E.
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SIGNED: 08/27/2024

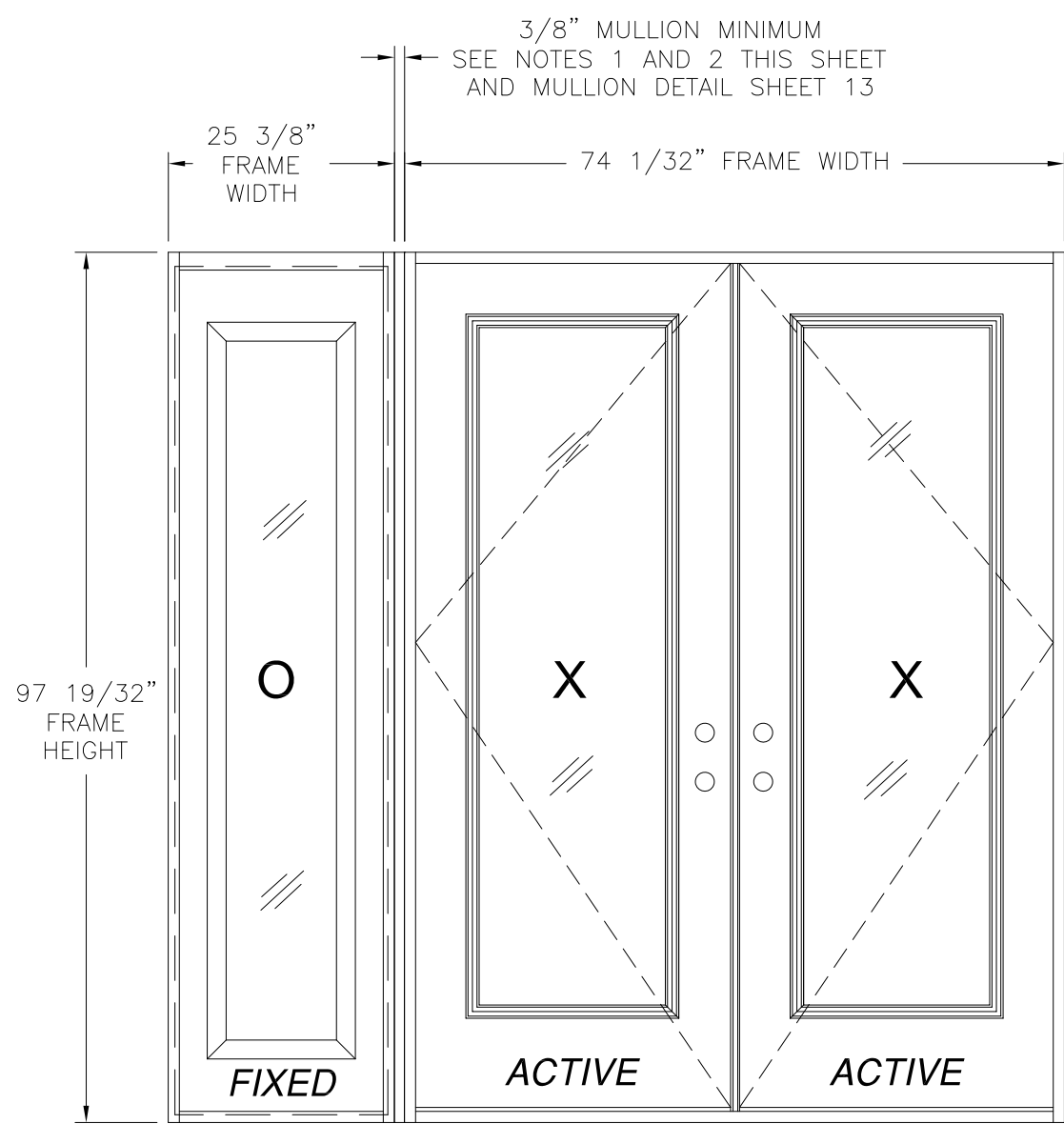


Luis R. Lomas P.E.
FL No.: 62514

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



DOUBLE DOOR WITH STANDARD SIDELITE
EXTERIOR VIEW
OXX SHOWN XXO ALSO APPROVED

- NOTES:**
1. MAXIMUM ALLOWED BUILD UP TO BE 7" AT EACH VERTICAL MULLION.
 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"

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

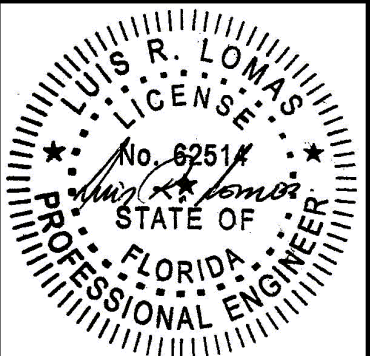
MISSILE LEVEL D, WIND ZONE 3

WITH PANOLOCK MULTI-POINT

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE MISSILE IMPACT

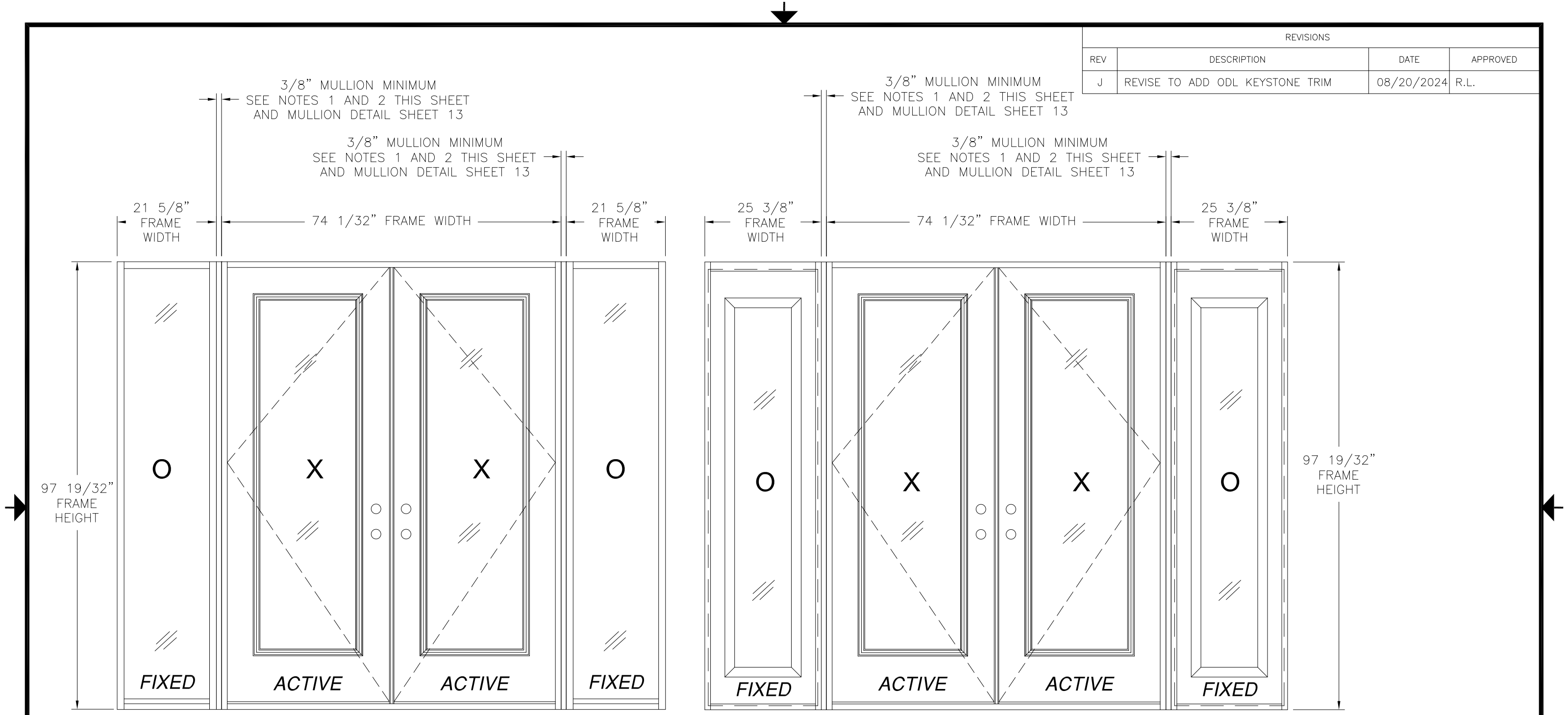
MISSILE LEVEL D, WIND ZONE 3

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED DOUBLE DOOR WITH SIDELITES – IMPACT ELEVATIONS		
DRAWN: J.L.	DWG NO. 08-02022	REV J
SCALE NTS	DATE 05/10/13	SHEET 2 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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DOUBLE DOOR WITH DIRECT SET SIDELITES
EXTERIOR VIEW

DOUBLE DOOR WITH STANDARD SIDELITES
EXTERIOR VIEW

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MISSILE LEVEL D, WIND ZONE 3

WITH PANOLOCK MULTI-POINT	
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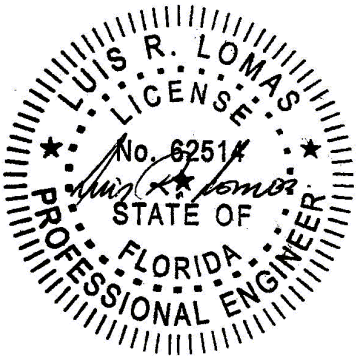
MISSILE LEVEL D, WIND ZONE 3

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

STEEL OUTSWING GLAZED DOUBLE DOOR
WITH SIDELITES – IMPACT
ELEVATIONS

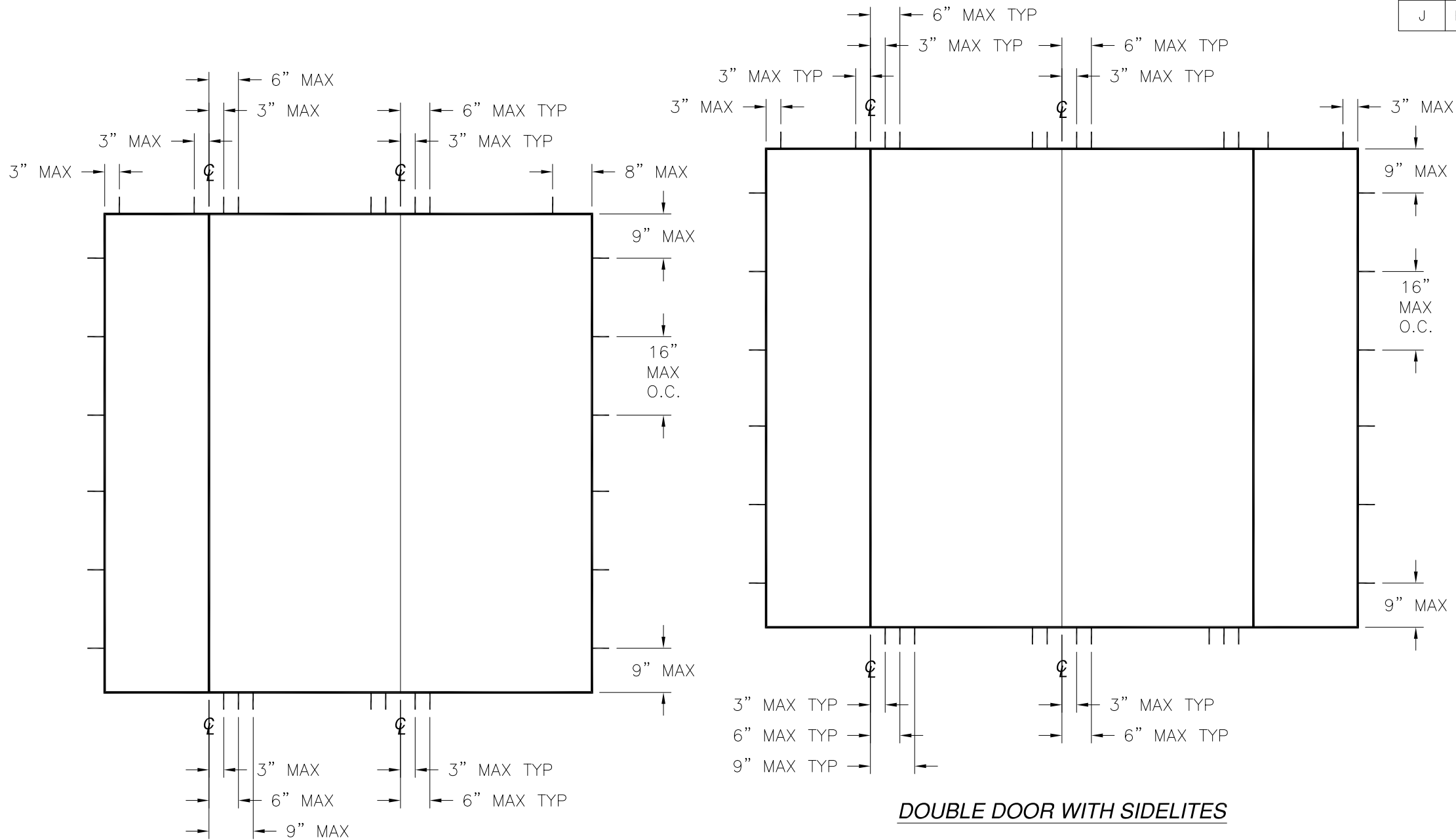
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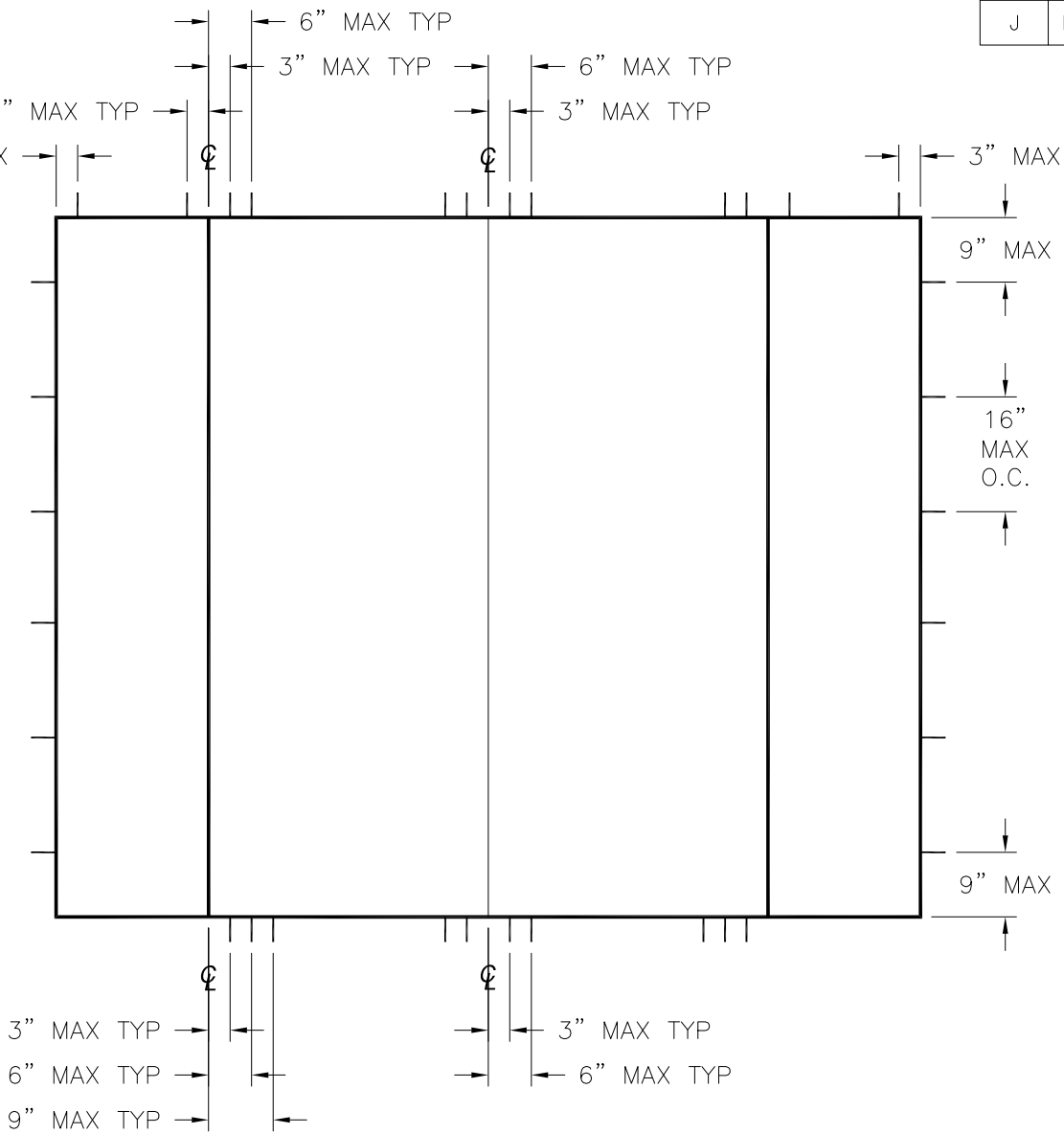


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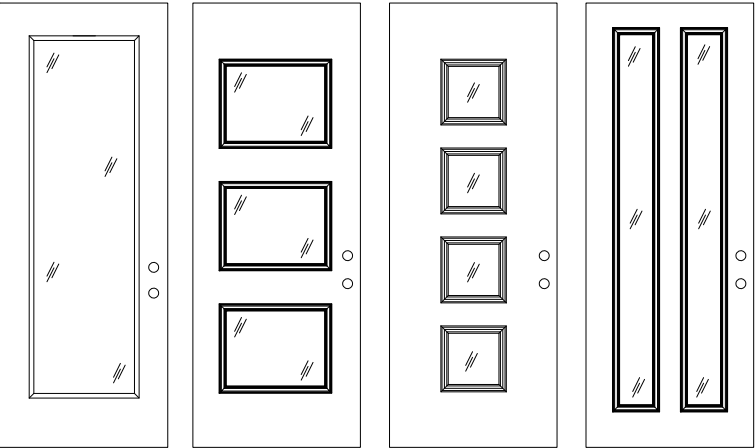


DOUBLE DOOR WITH SIDELITE



DOUBLE DOOR WITH SIDELITES

APPROVED LITE CONFIGURATIONS

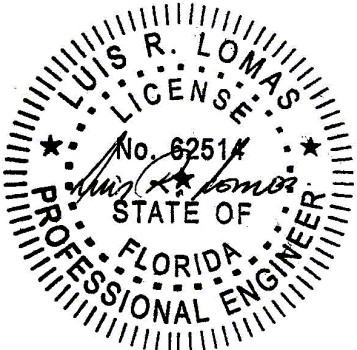


FULL LITE 3 LITE 4 LITE 2 LITE
LITE CONFIGURATIONS SHOWN ARE FOR REFERENCE ONLY.
MULTIPLE LITE CONFIGURATIONS ARE APPROVED AS LONG AS
LITE SIZE DOES NOT EXCEED 11.1 FT²

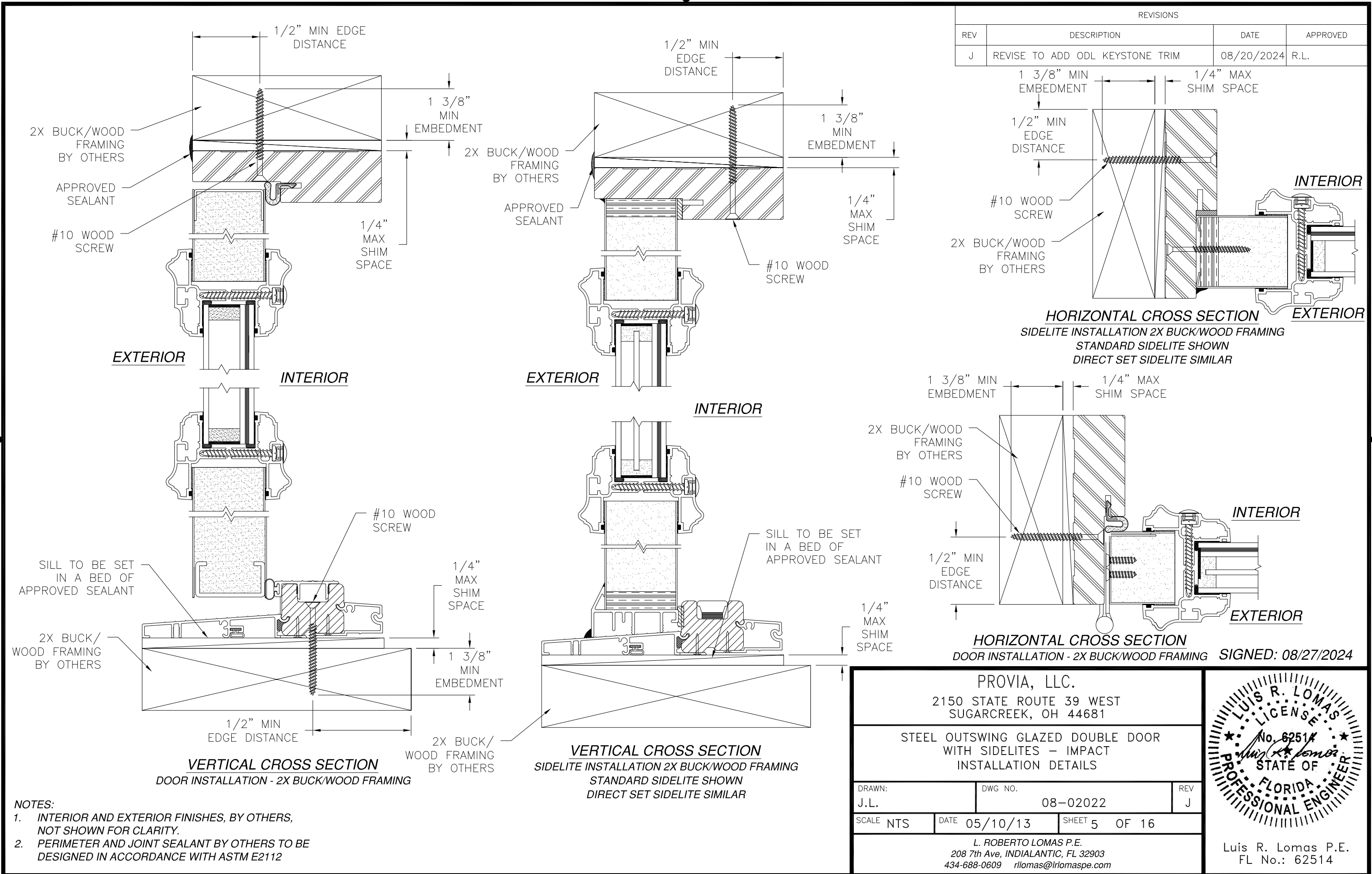
HARDWARE SCHEDULE	
A.	F-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE
B.	B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
C.	F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
D.	RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE)
E.	MULTI-POINT LOCK HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE)
F.	PANOLOCK MULTI-POINT LOCK 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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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

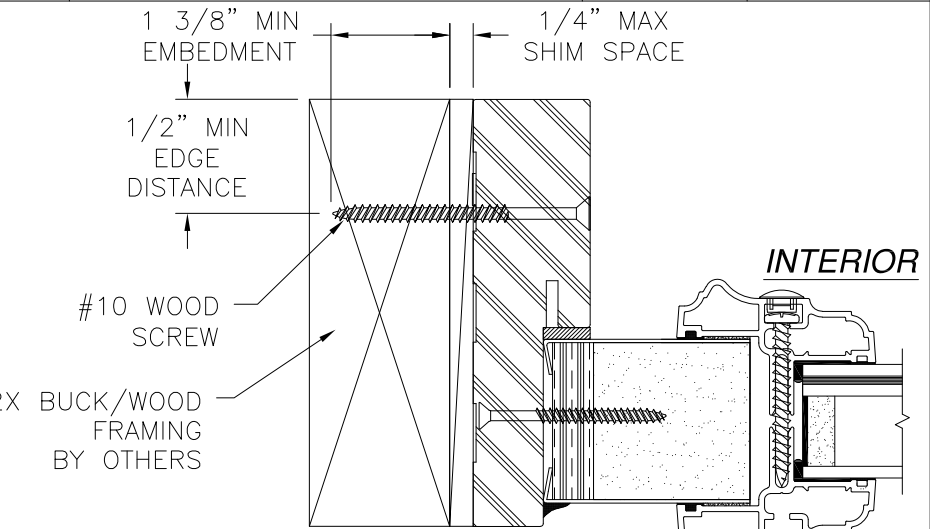
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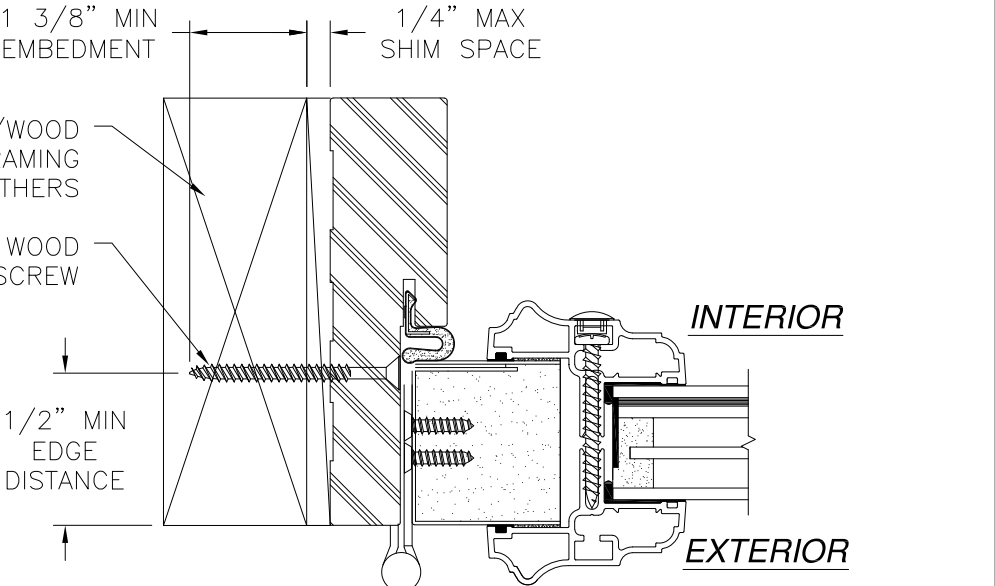
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HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



HORIZONTAL CROSS SECTION
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING
SIGNED: 08/27/2024

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

STEEL OUTSWING GLAZED DOUBLE DOOR
WITH SIDELITES – IMPACT
INSTALLATION DETAILS

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05/10/13

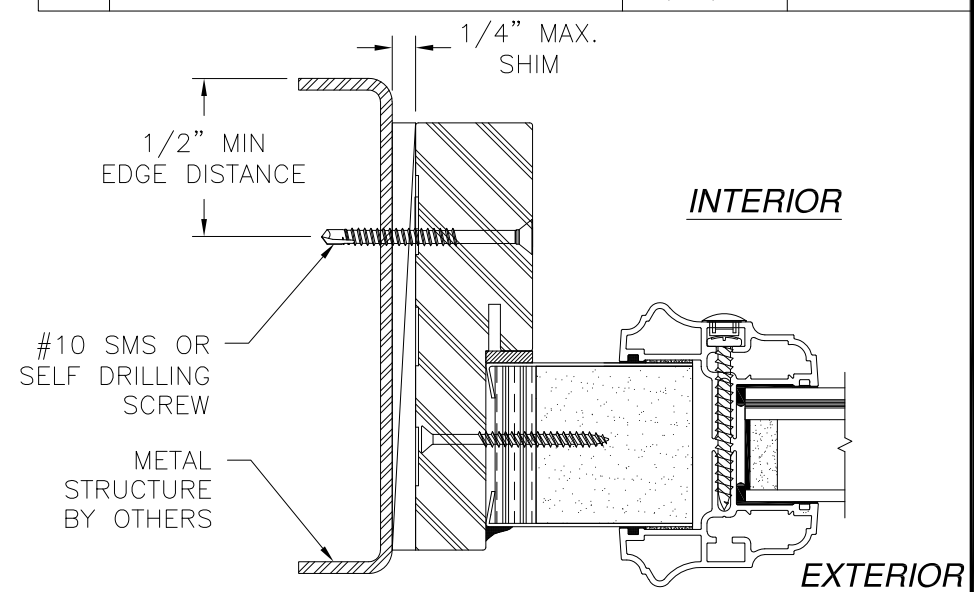
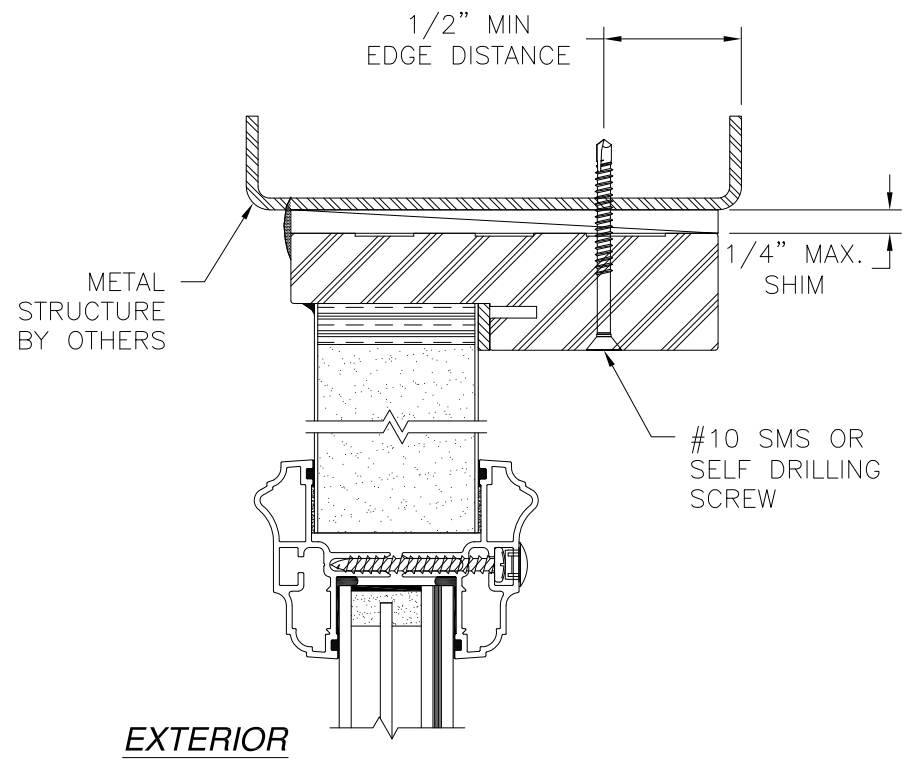
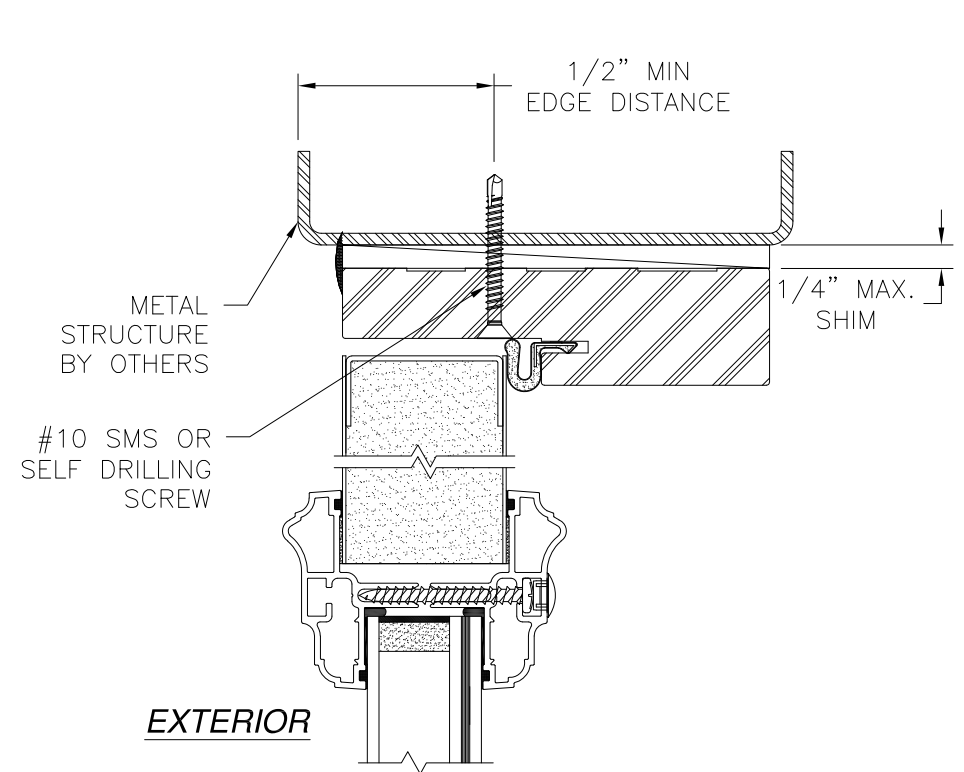
SHEET
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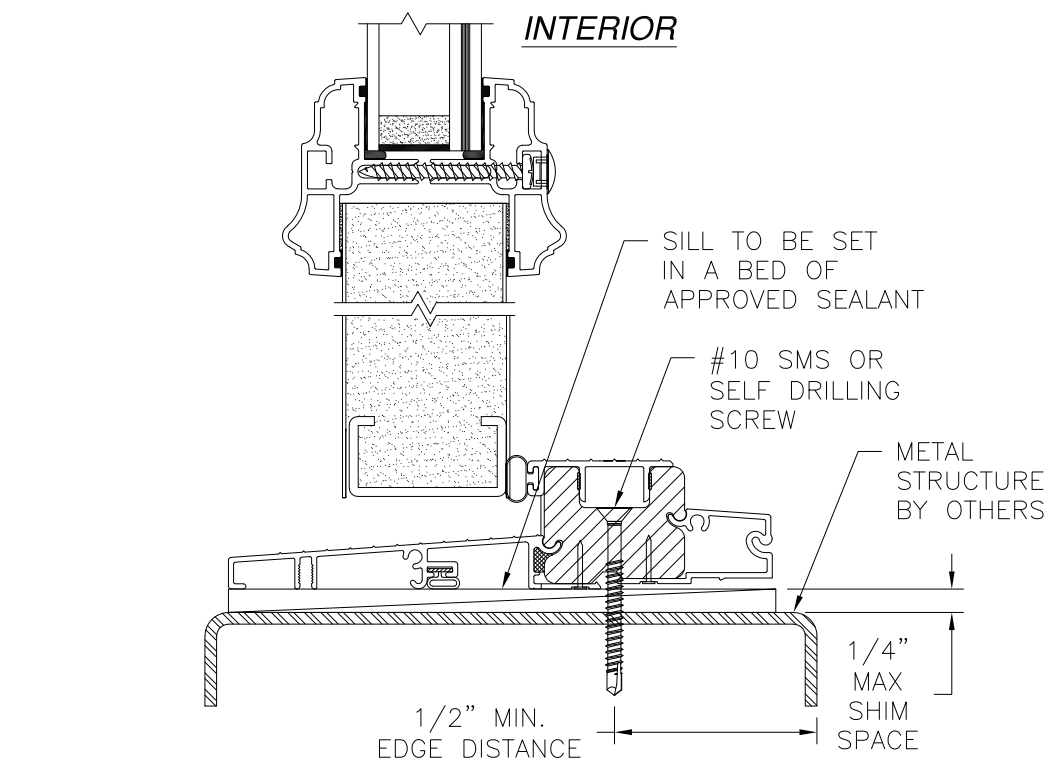
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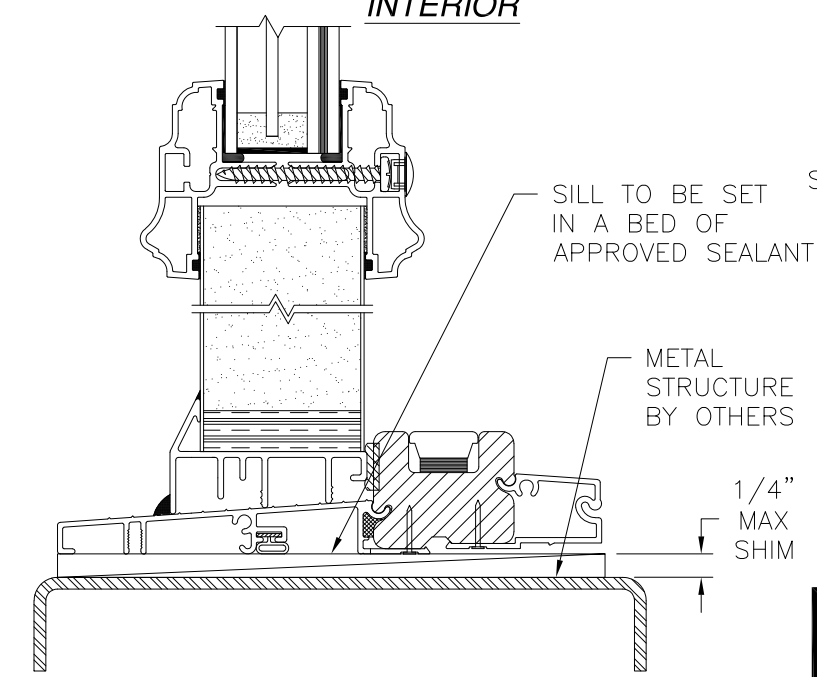
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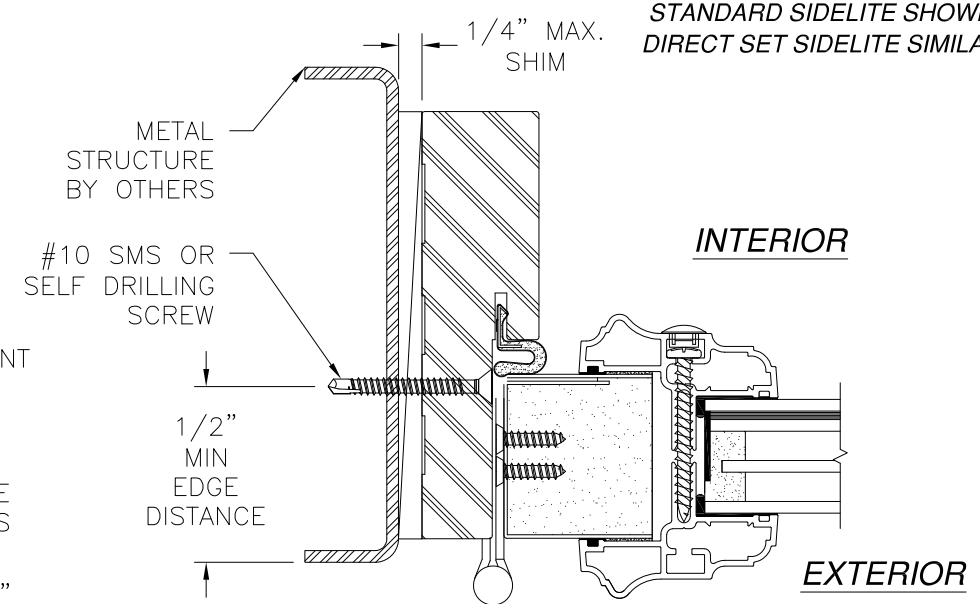
HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION METAL STRUCTURE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



VERTICAL CROSS SECTION
DOOR INSTALLATION METAL STRUCTURE



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



HORIZONTAL CROSS SECTION
DOOR INSTALLATION METAL STRUCTURE

SIGNED: 08/27/2024

- 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

PROVIA, LLC.
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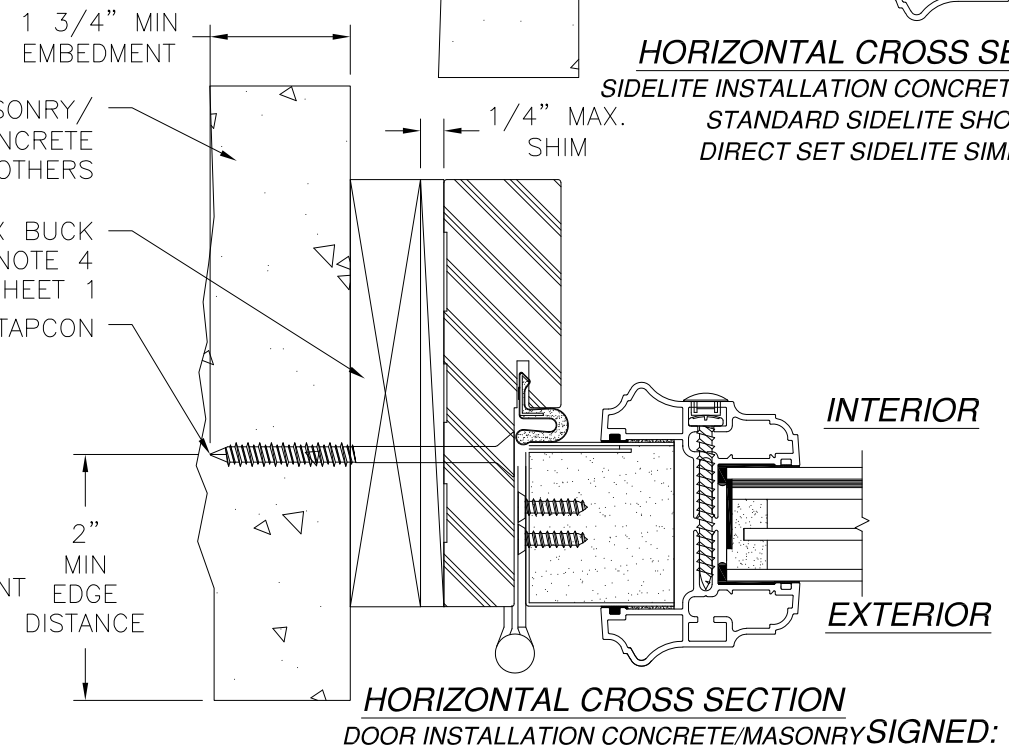
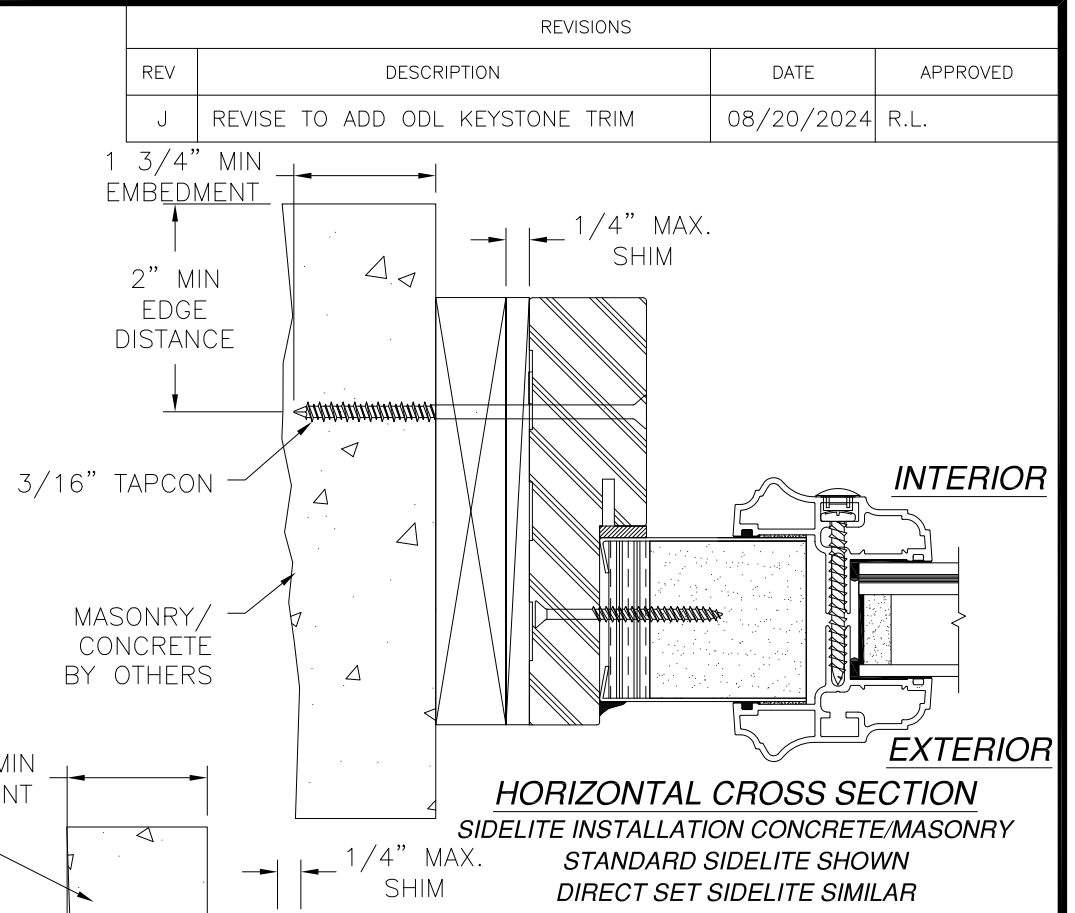
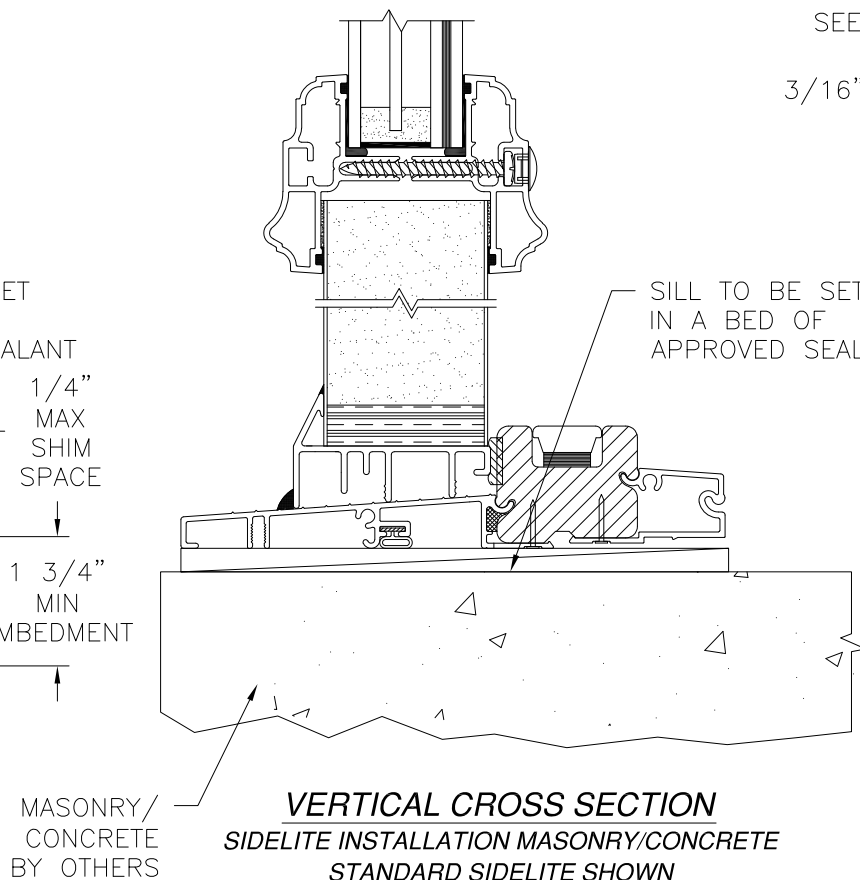
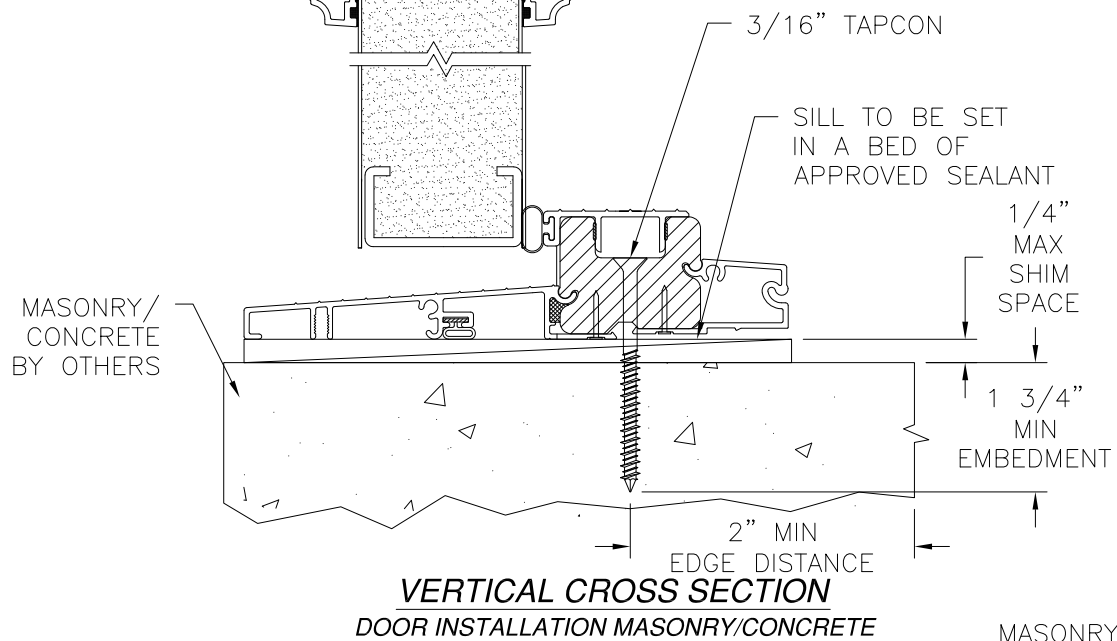
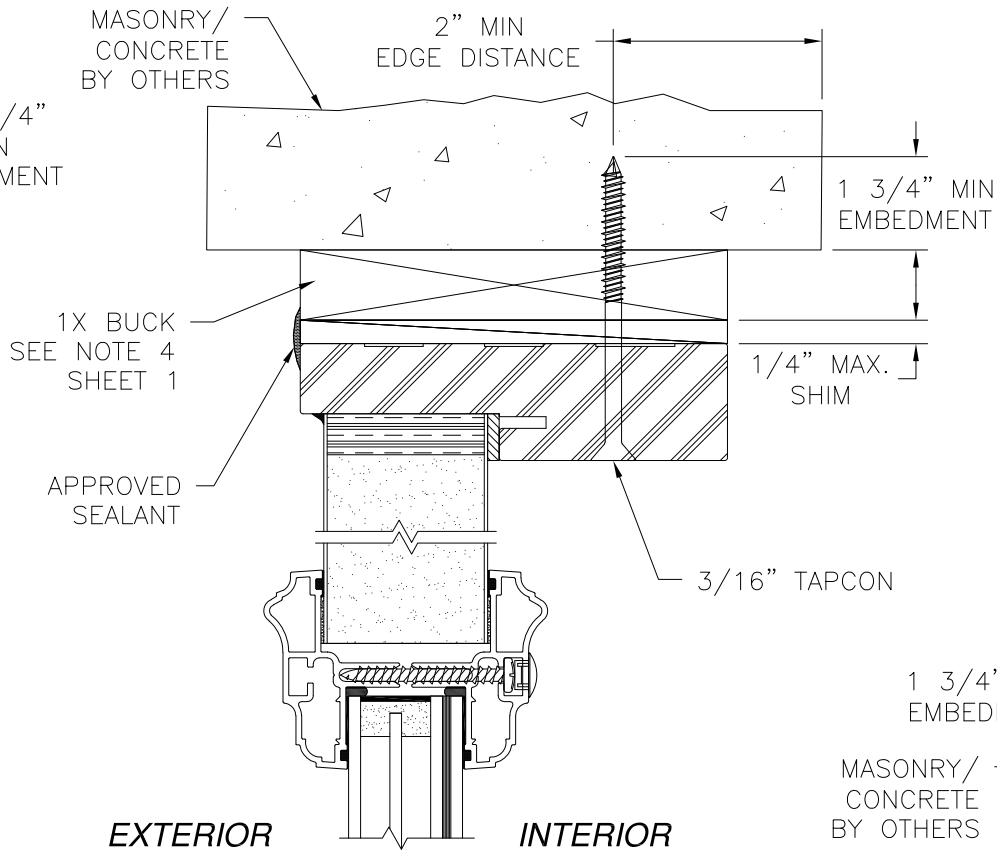
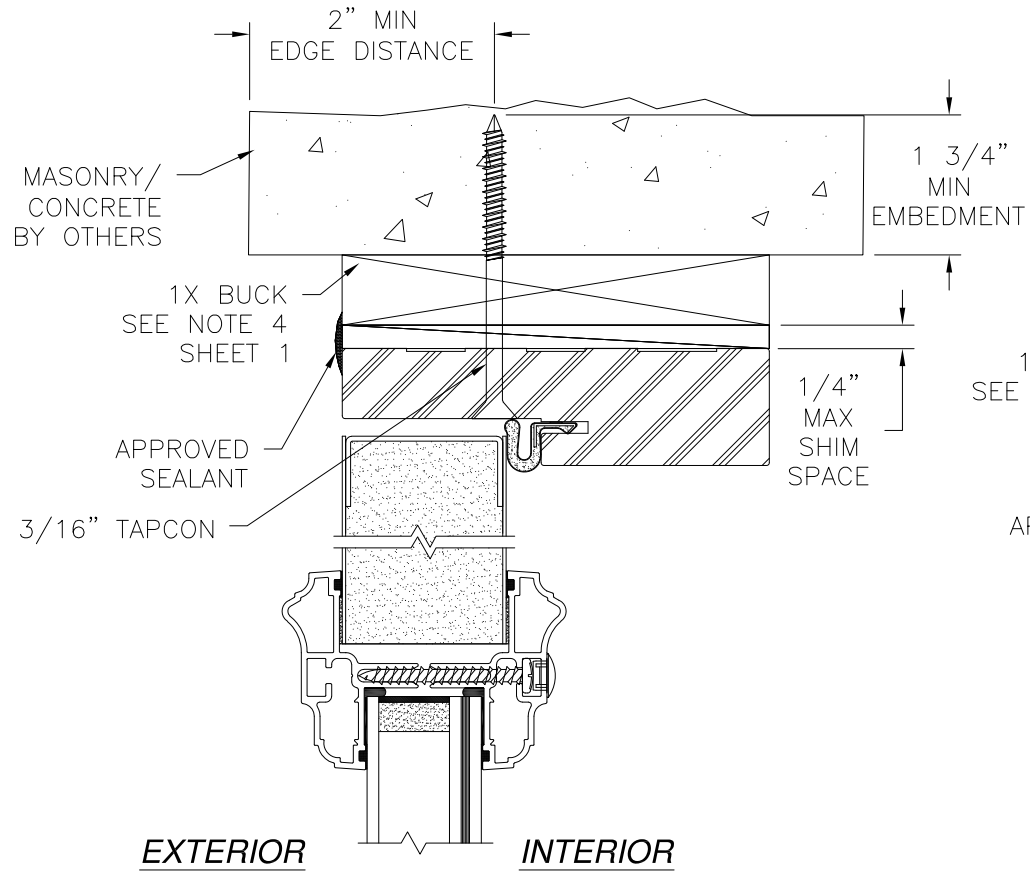
STEEL OUTSWING GLAZED DOUBLE DOOR
WITH SIDELITES – IMPACT
INSTALLATION DETAILS

DRAWN: J.L.	DWG NO. 08-02022	REV J
SCALE NTS	DATE 05/10/13	SHEET 6 OF 16

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

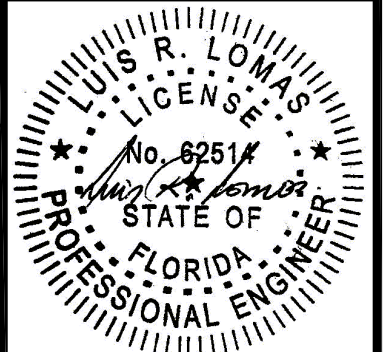
PROVIA, LLC.

2150 STATE ROUTE 39 WEST
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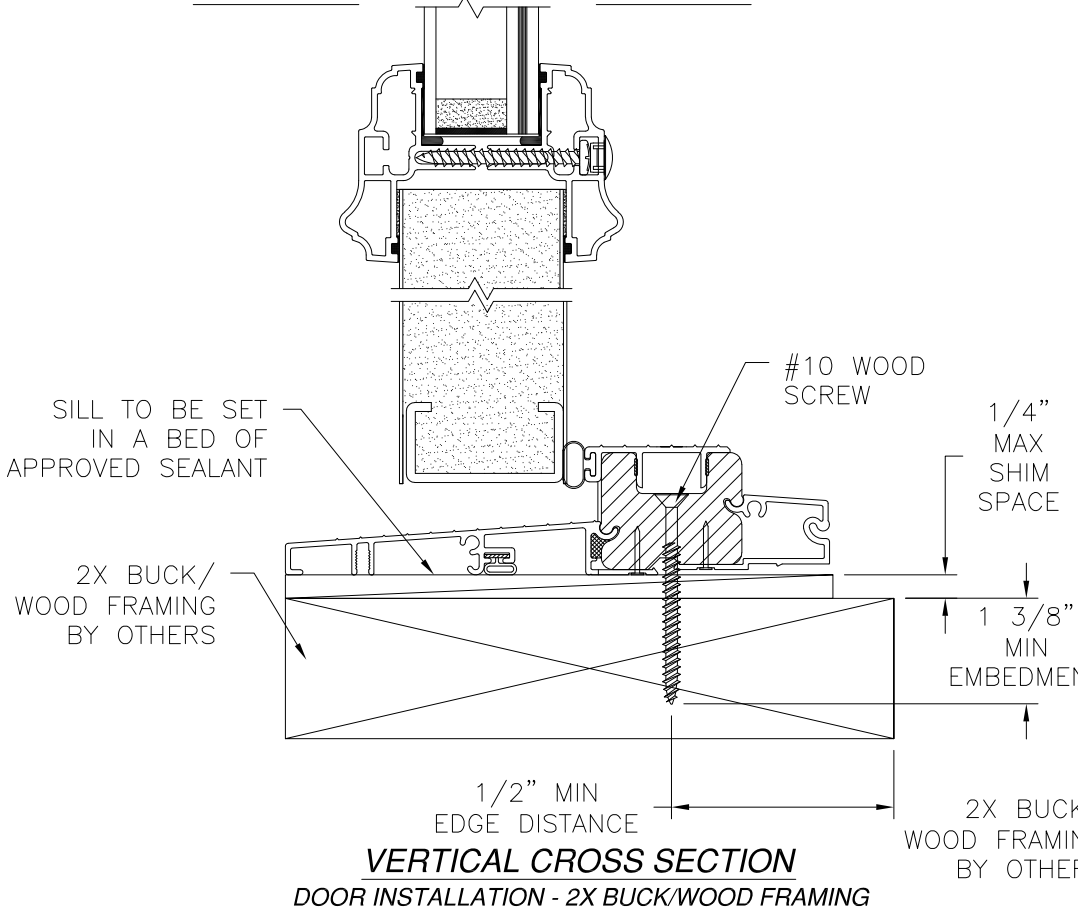
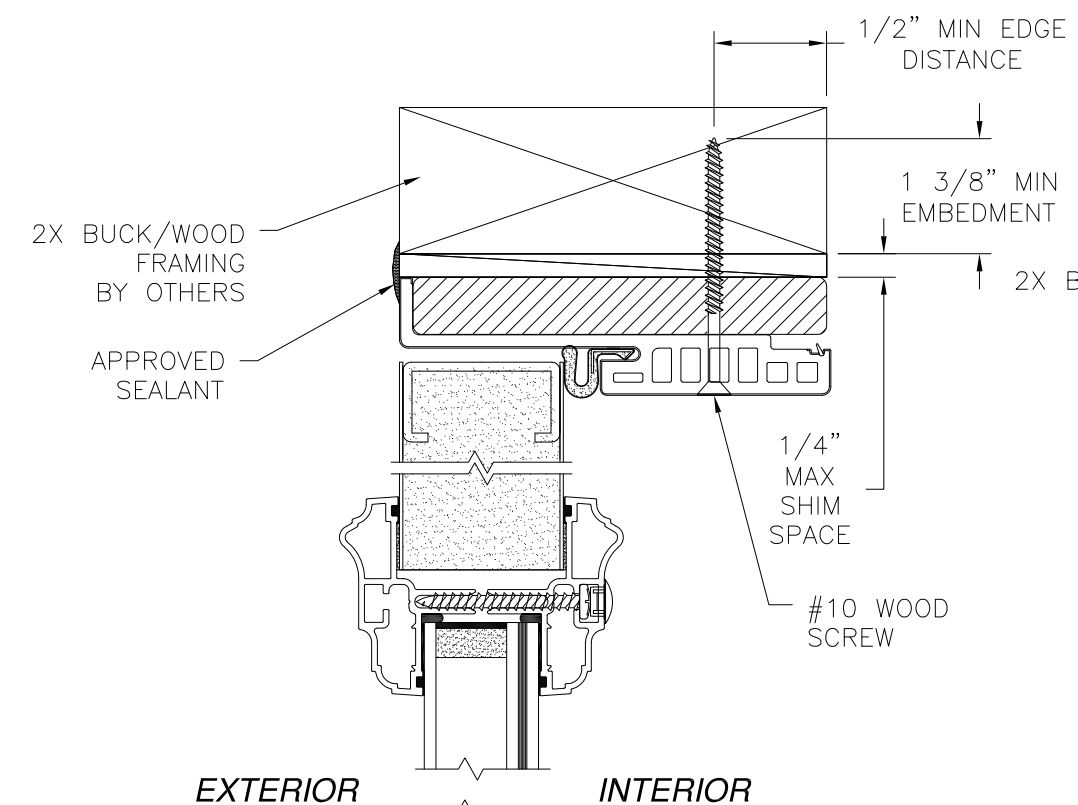
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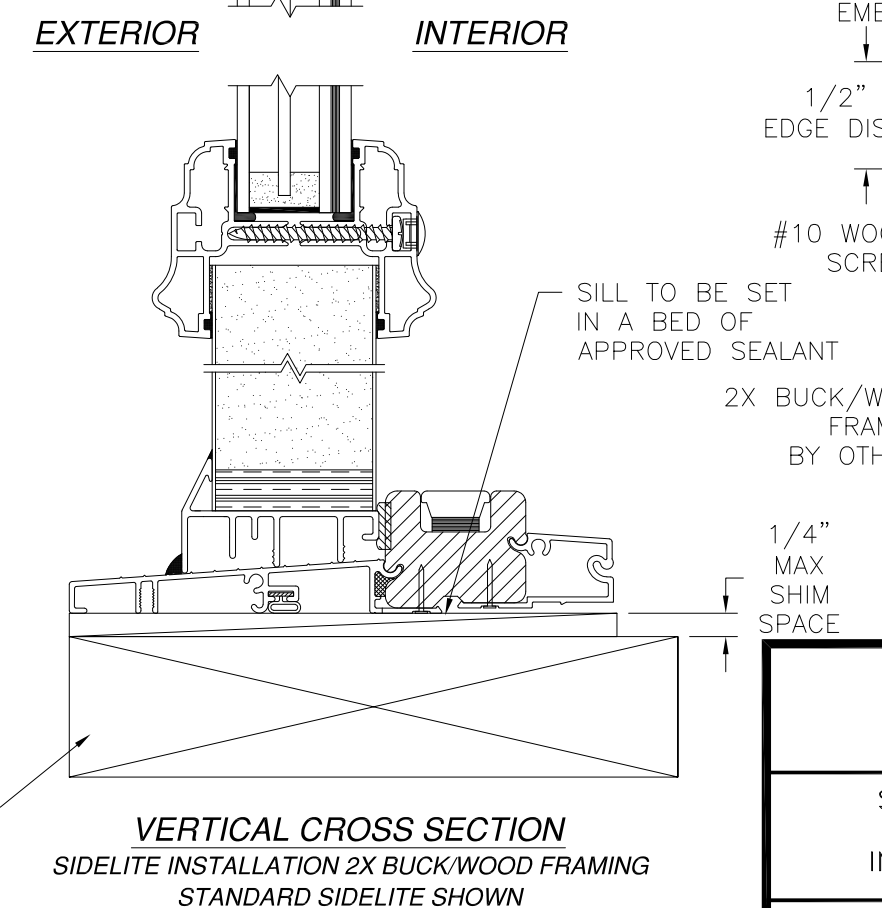
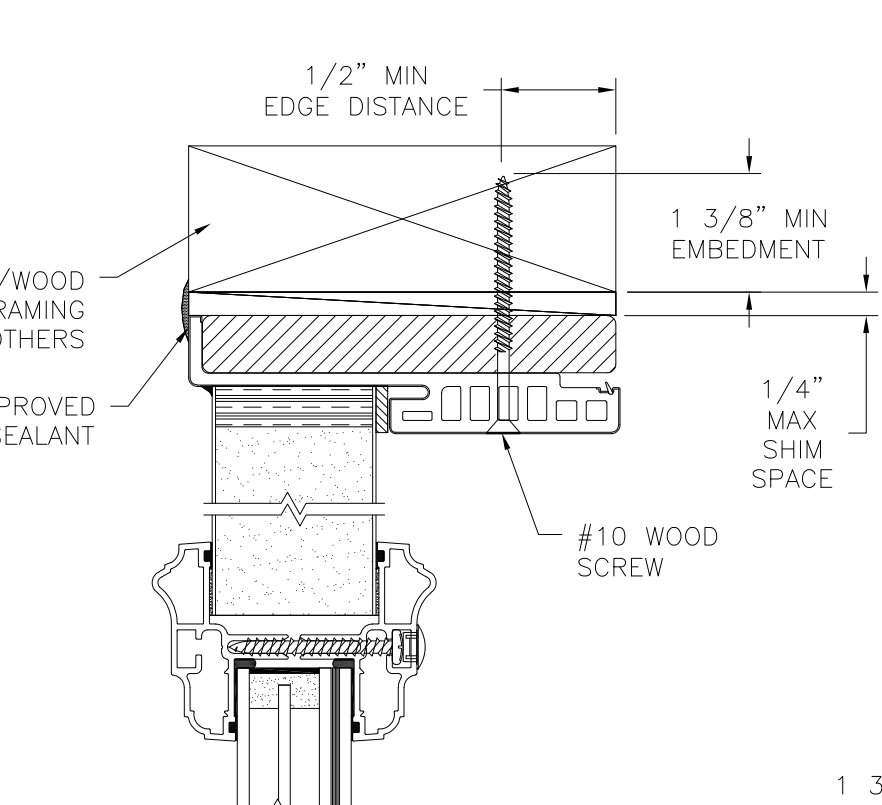


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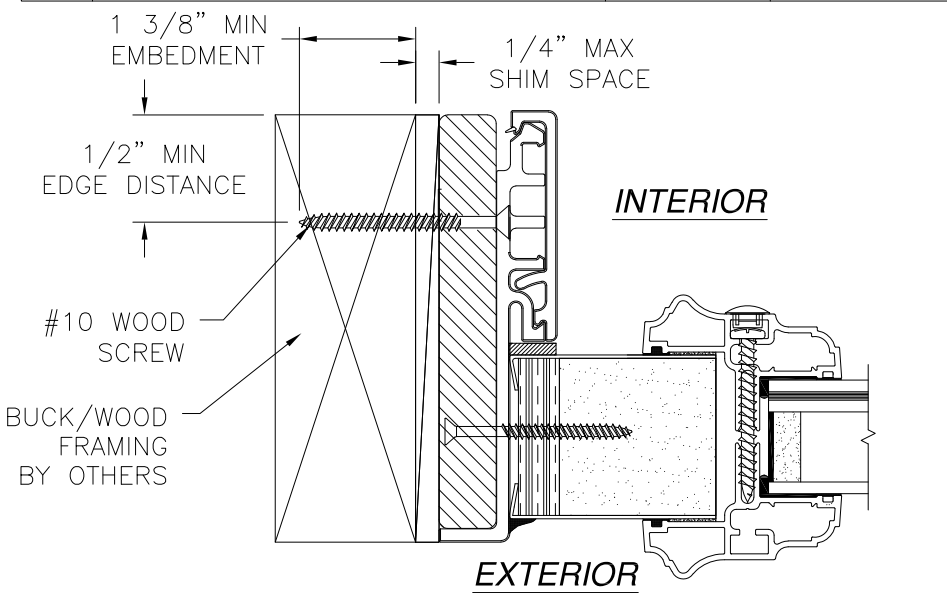
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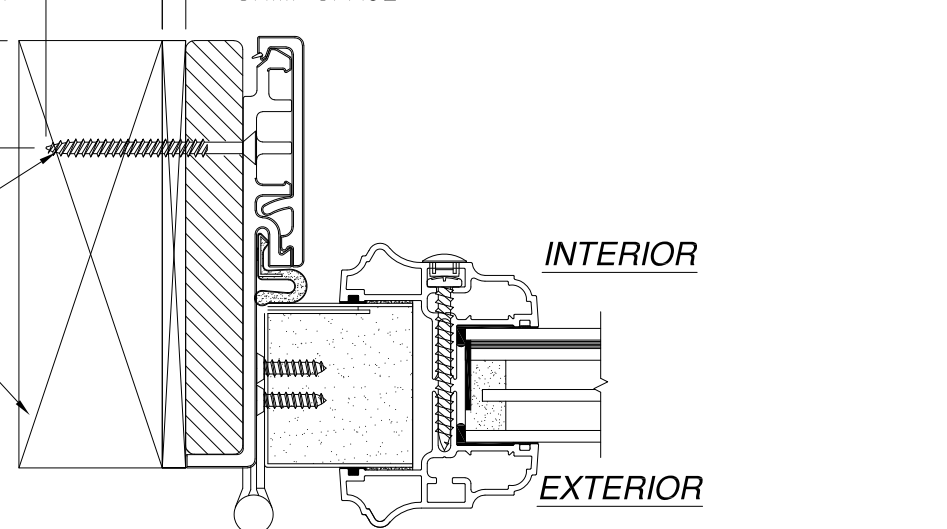


VERTICAL CROSS SECTION
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
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SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
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HORIZONTAL CROSS SECTION
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING

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STEEL OUTSWING GLAZED DOUBLE DOOR
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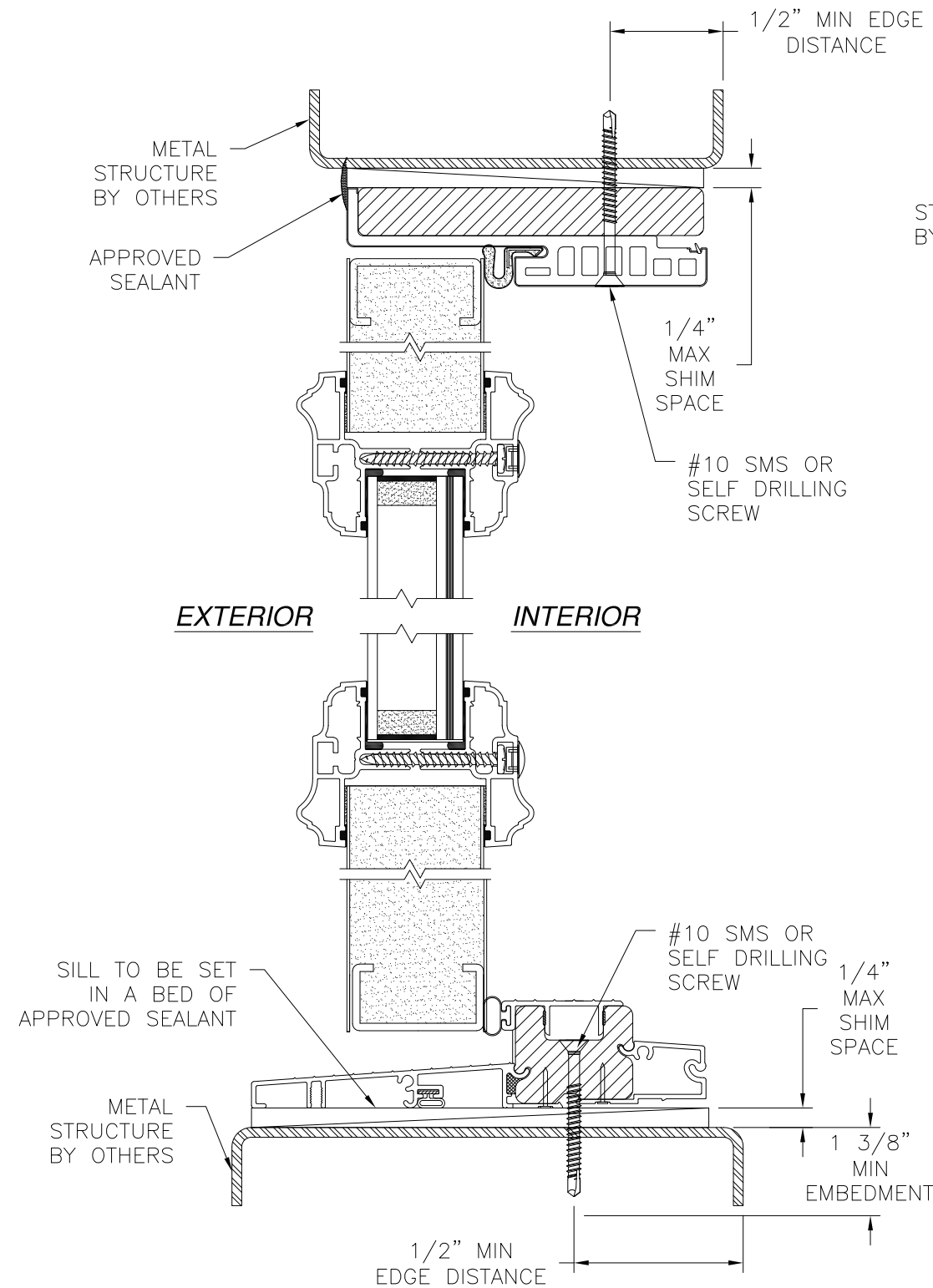
SHEET
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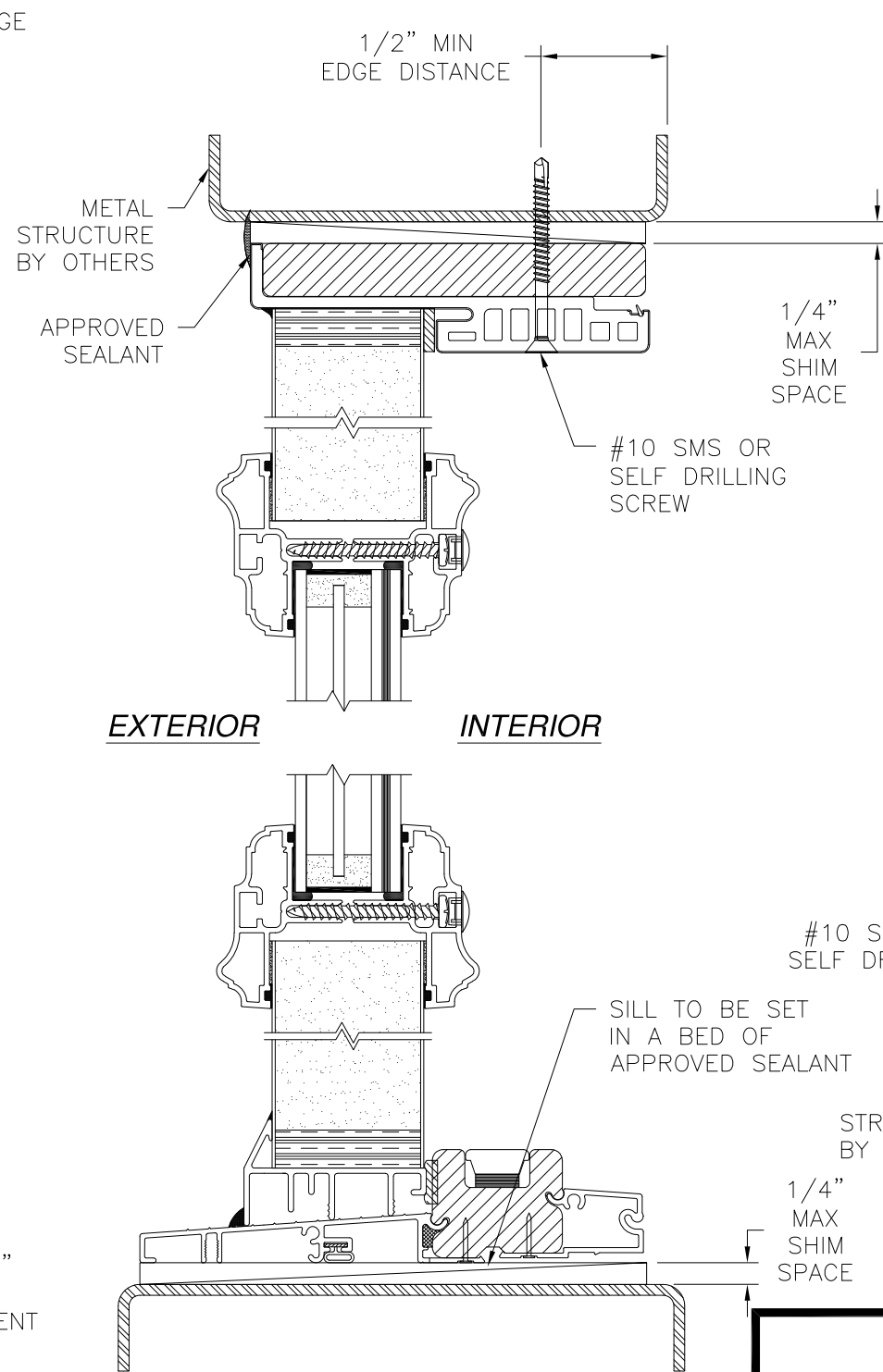
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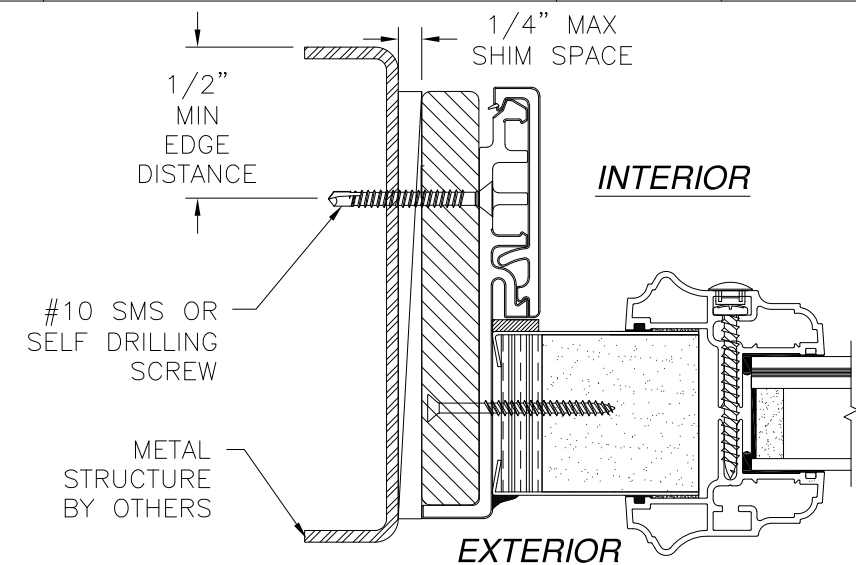


VERTICAL CROSS SECTION
DOOR INSTALLATION - METAL STRUCTURE

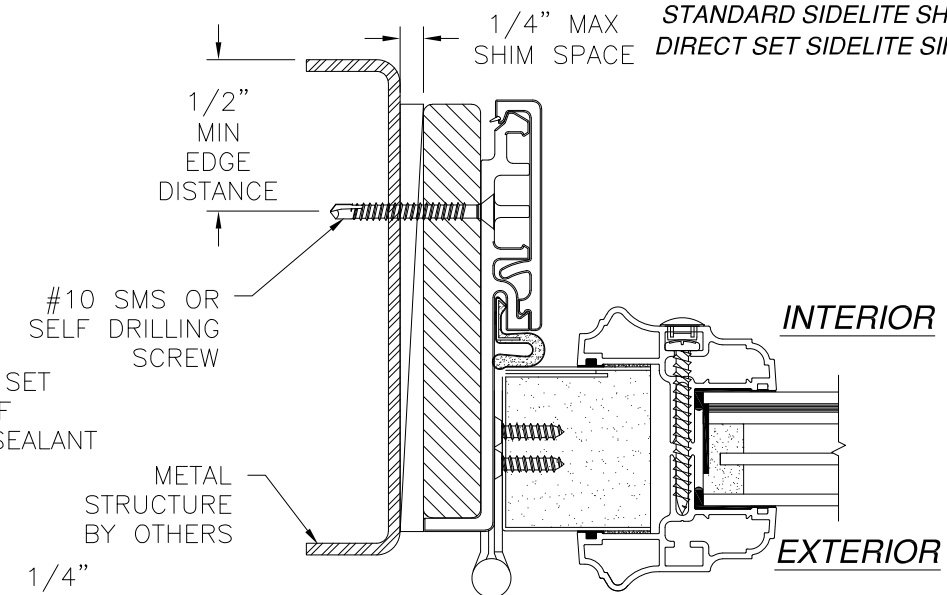
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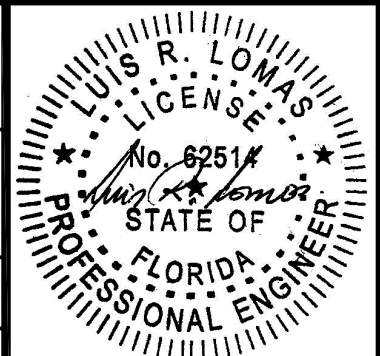
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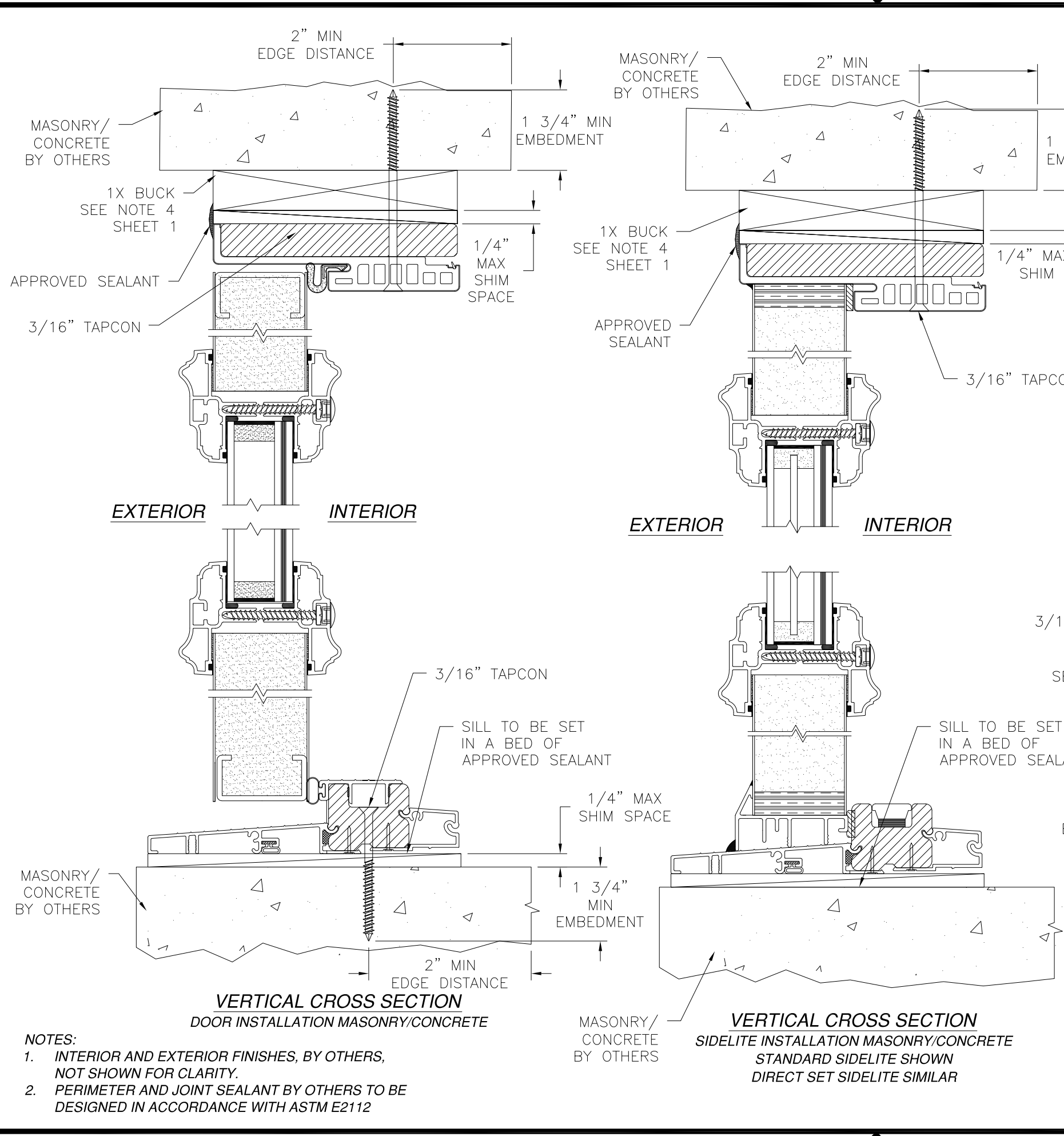
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DOOR INSTALLATION - METAL STRUCTURE

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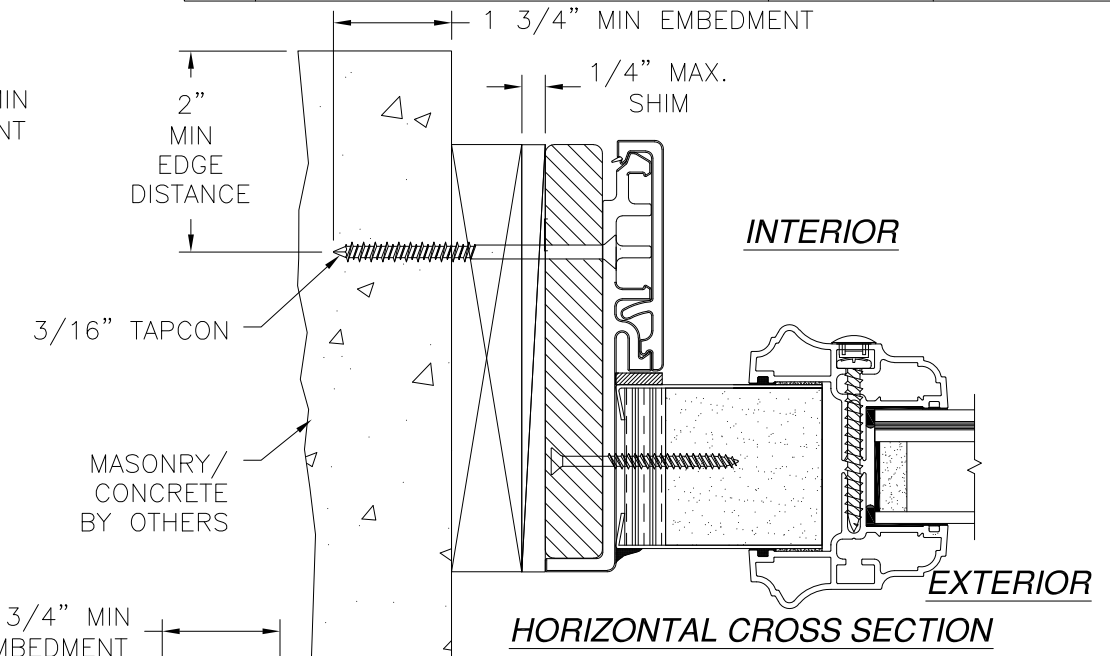
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STEEL OUTSWING GLAZED DOUBLE DOOR WITH SIDELITES - IMPACT INSTALLATION DETAILS W/FUSION FRAME		
DRAWN: J.L.	DWG NO. 08-02022	REV J
SCALE NTS	DATE 05/10/13	SHEET 9 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



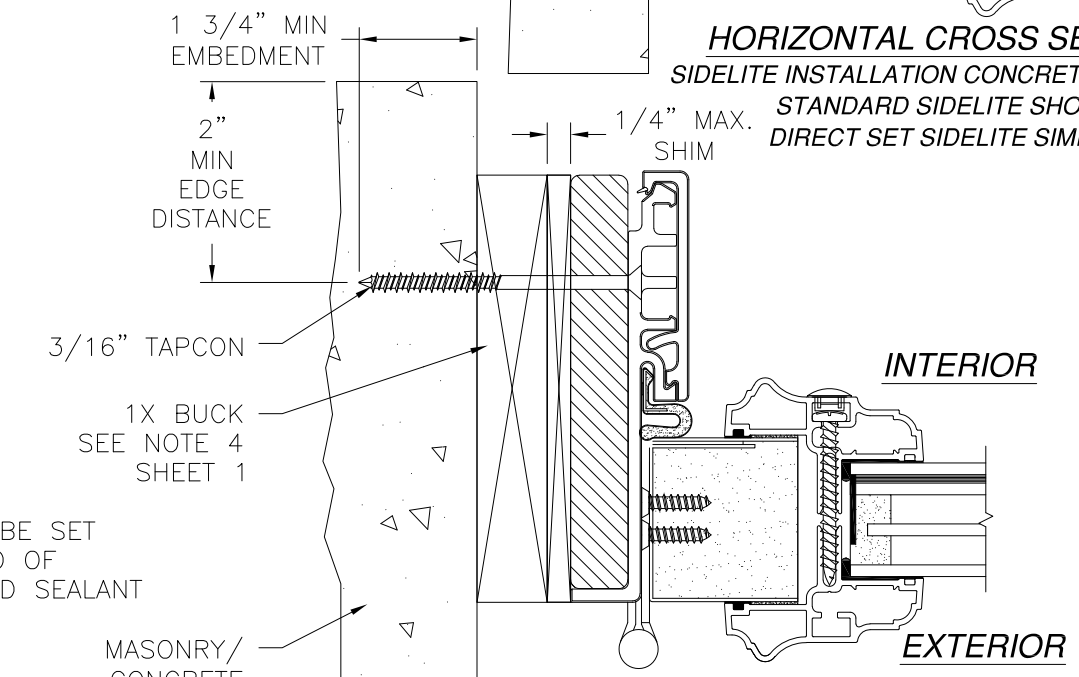
Luis R. Lomas P.E.
FL No.: 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEystone TRIM	08/20/2024	R.L.



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



HORIZONTAL CROSS SECTION
DOOR INSTALLATION CONCRETE/MASONRY
SIGNED: 08/27/2024

- 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

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

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

STEEL OUTSWING GLAZED DOUBLE DOOR
WITH SIDELITES – IMPACT
INSTALLATION DETAILS W/FUSION FRAME

DRAWN:
J.L.

DWG NO.
08-02022

REV
J

SCALE
NTS

DATE
05/10/13

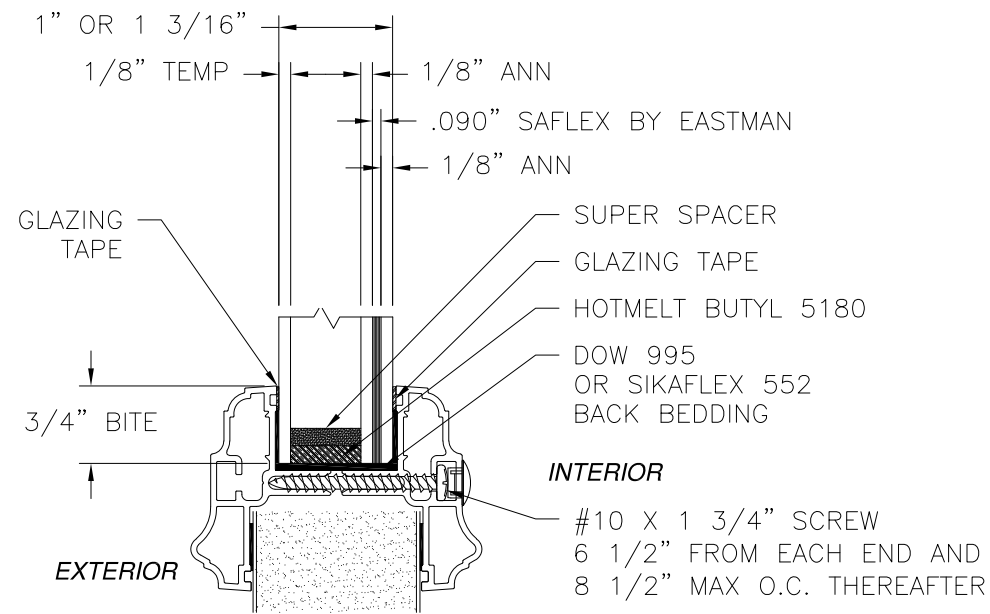
SHEET
10 OF 16

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

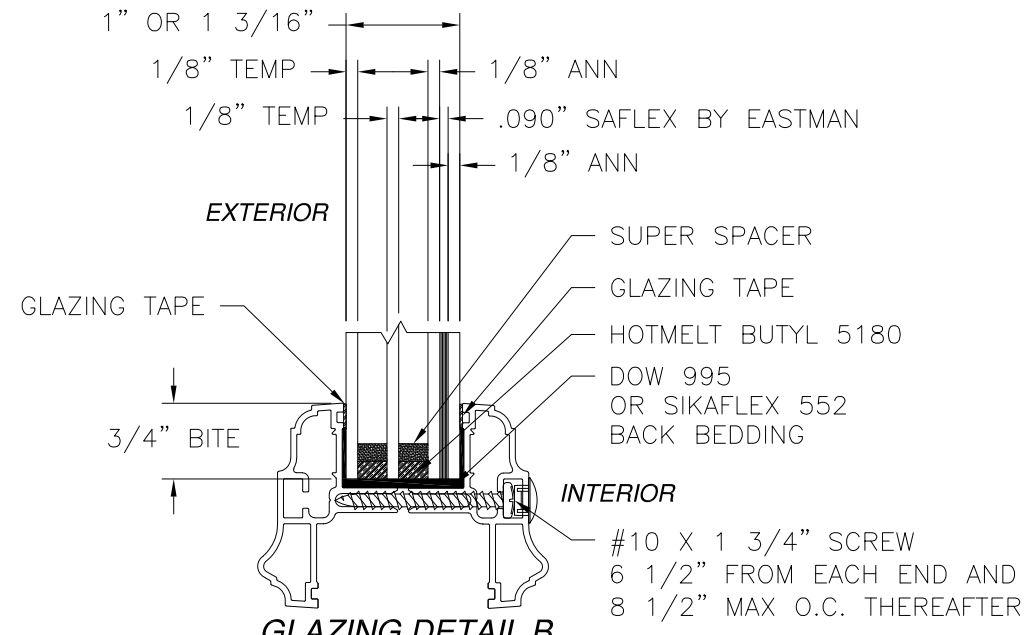
LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

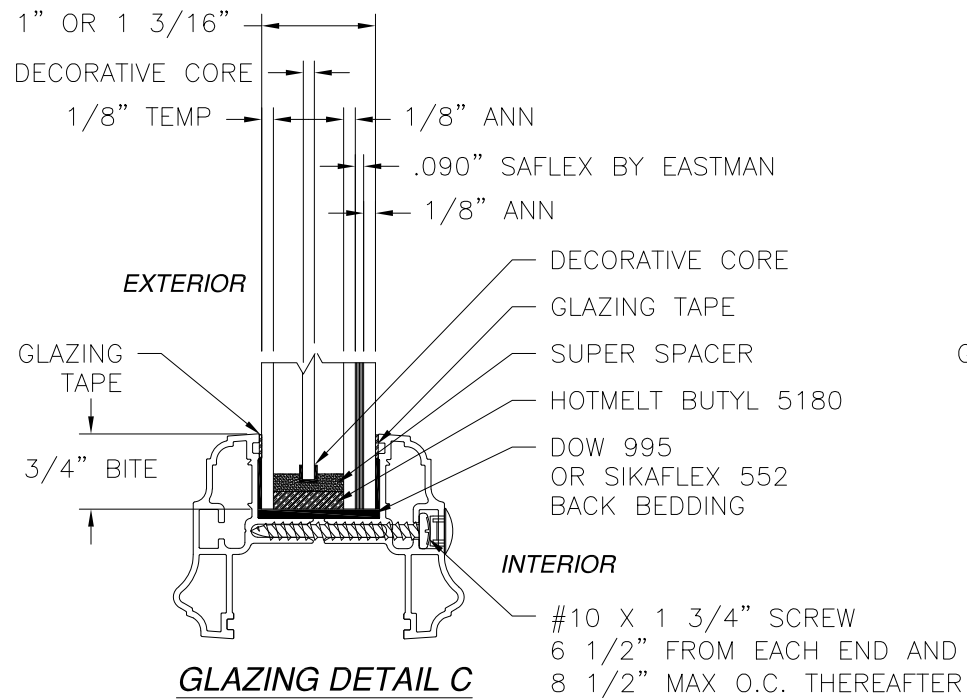
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REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



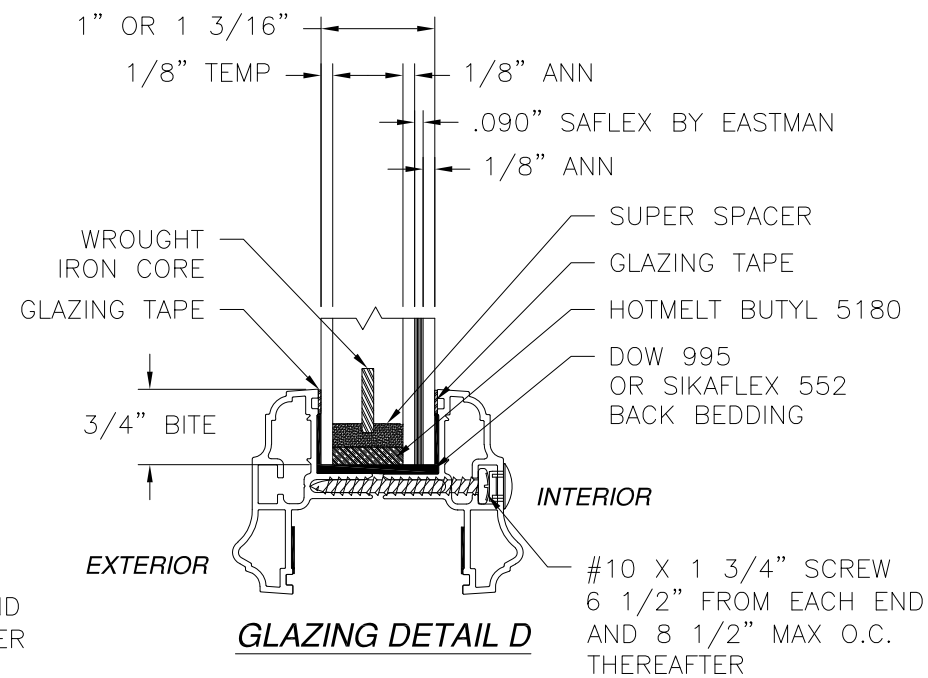
GLAZING DETAIL A



GLAZING DETAIL B



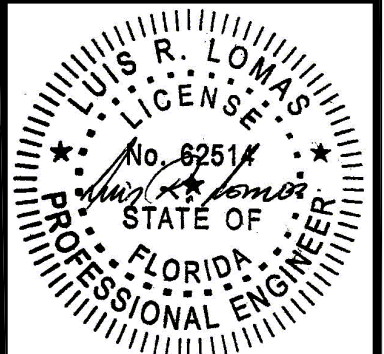
GLAZING DETAIL C



GLAZING DETAIL D

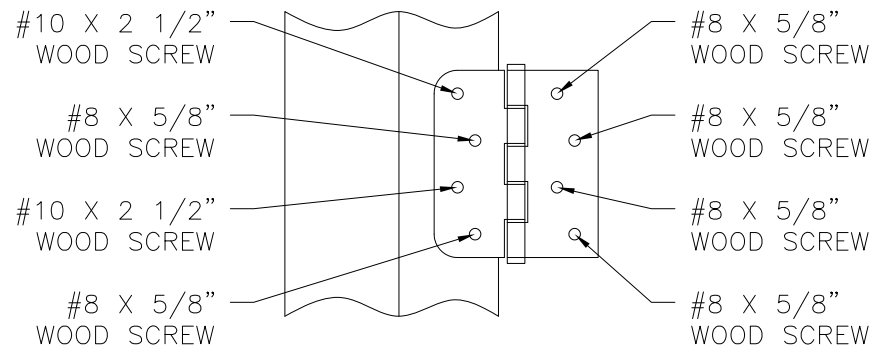
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED DOUBLE DOOR WITH SIDELITES – IMPACT GLAZING DETAILS		
DRAWN: J.L.	DWG NO. 08-02022	REV J
SCALE NTS	DATE 05/10/13	SHEET 11 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/27/2024

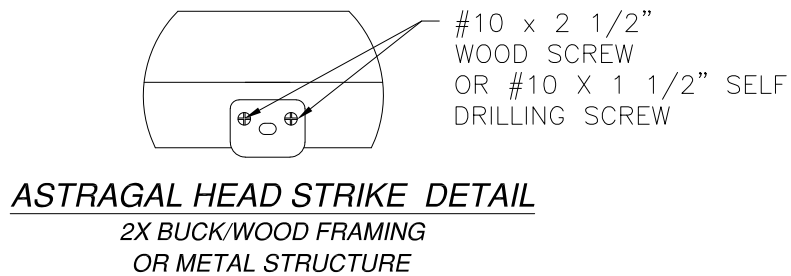


Luis R. Lomas P.E.
FL No.: 62514

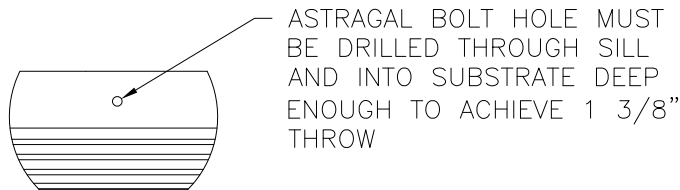
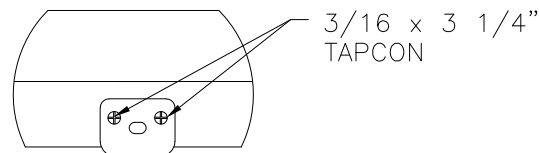
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



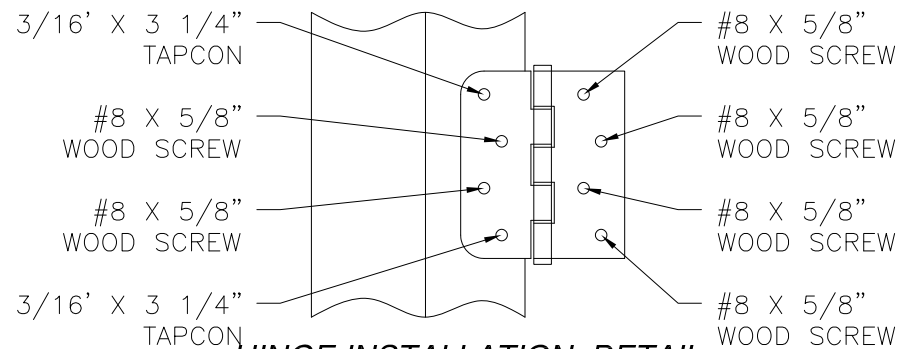
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2X BUCK/WOOD FRAMING



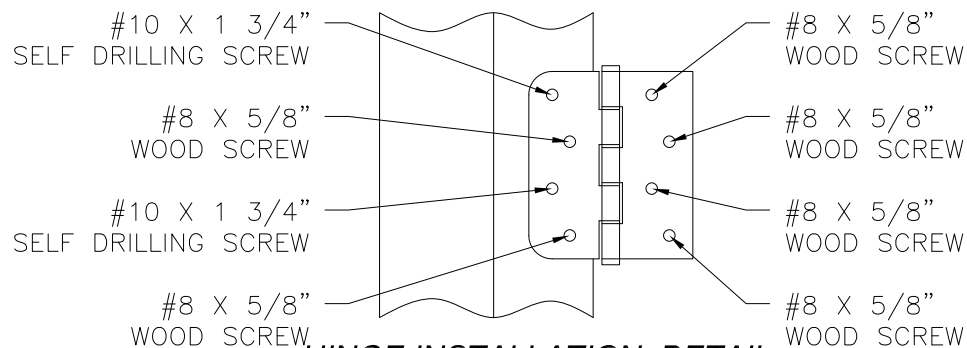
ASTRAGAL HEAD STRIKE DETAIL
MASONRY/CONCRETE



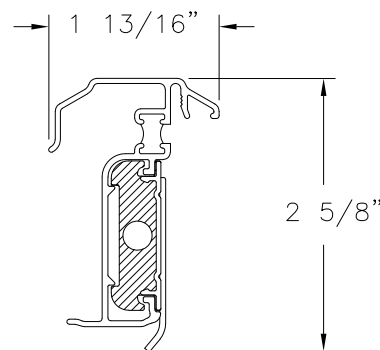
ASTRAGAL SILL DETAIL



HINGE INSTALLATION DETAIL
MASONRY/CONCRETE



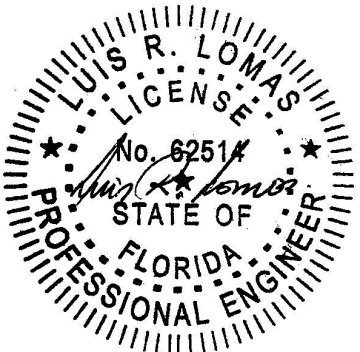
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METAL STRUCTURE



HURRICANE ASTRAGAL DETAIL

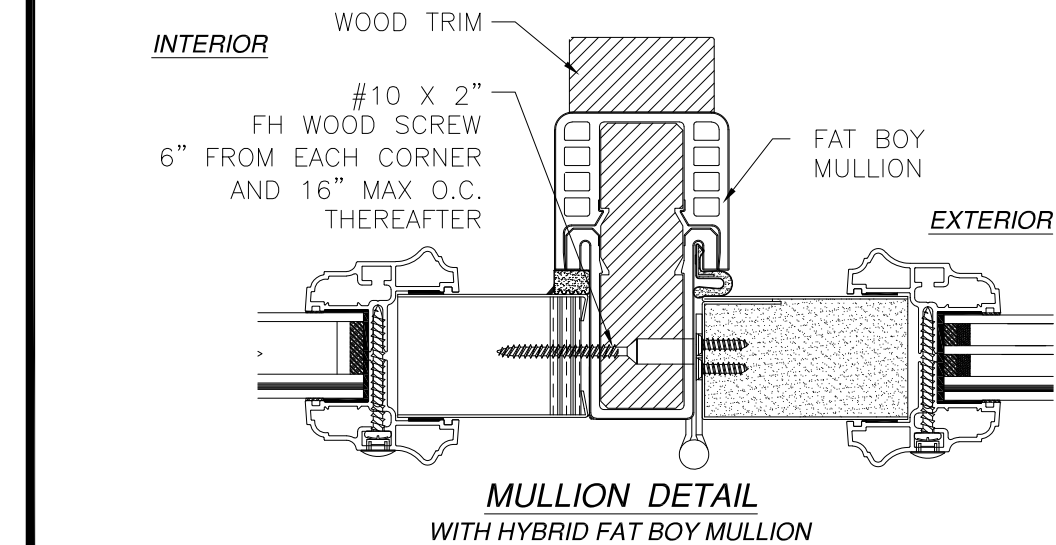
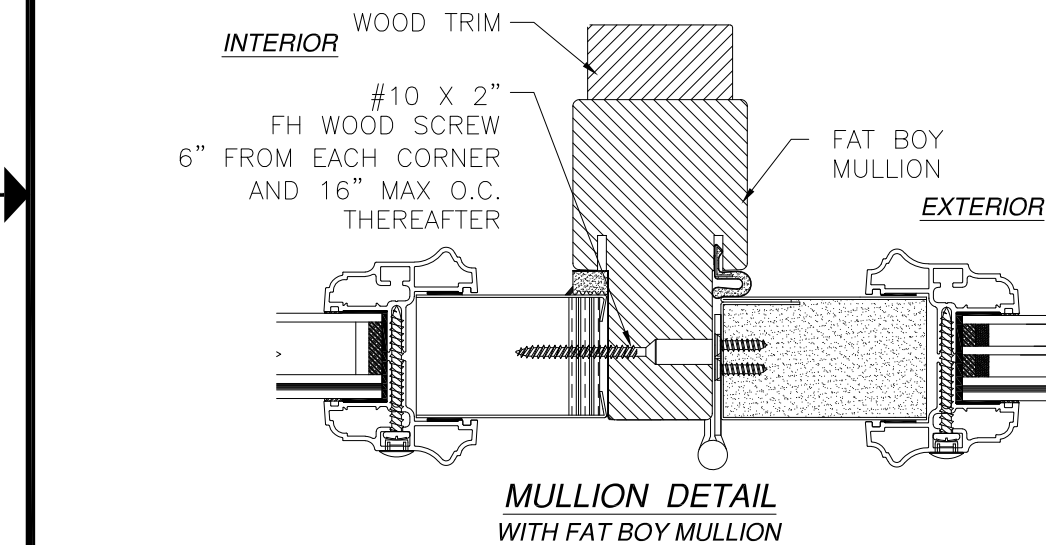
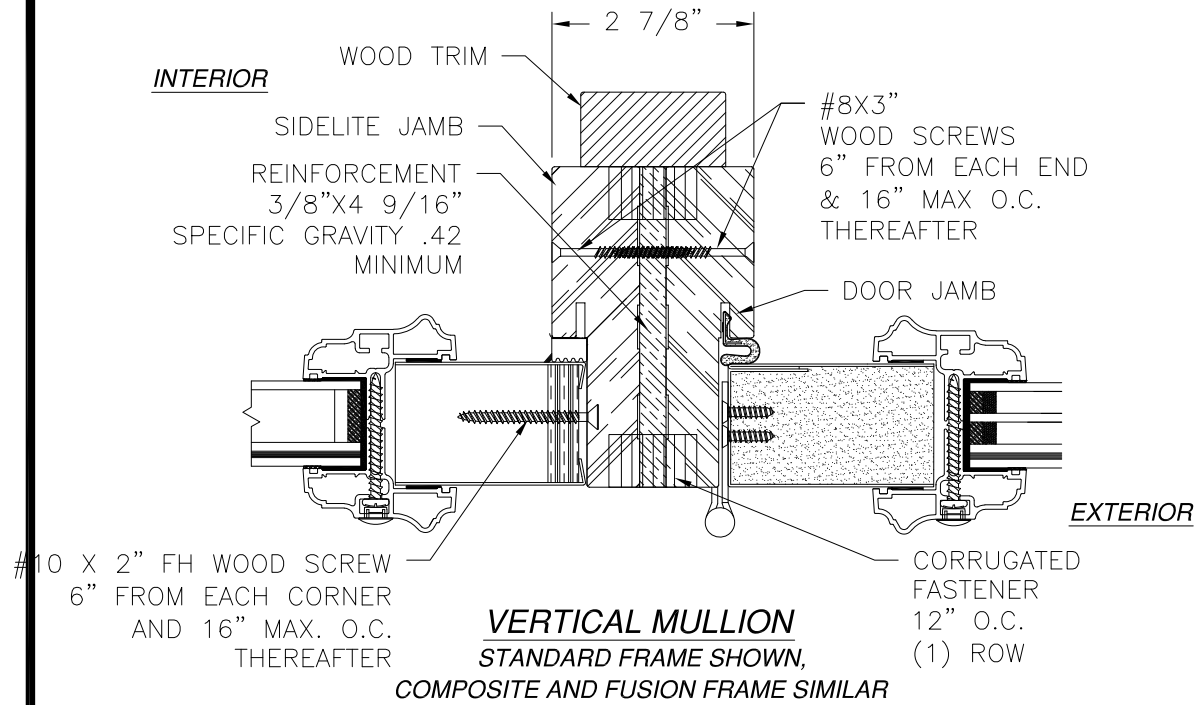
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED DOUBLE DOOR WITH SIDELITES – IMPACT COMPONENTS DETAILS		
DRAWN: J.L.	DWG NO. 08-02022	REV J
SCALE NTS	DATE 05/10/13	SHEET 12 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/27/2024



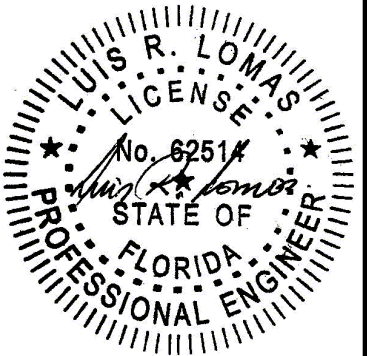
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED DOUBLE DOOR WITH SIDELITES – IMPACT MULLION DETAILS		
DRAWN: J.L.	DWG NO. 08-02022	REV J
SCALE NTS	DATE 05/10/13	SHEET 13 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

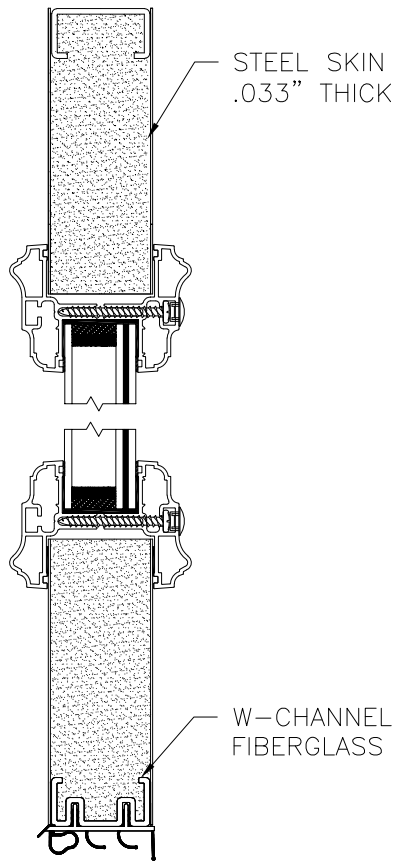
SIGNED: 08/27/2024



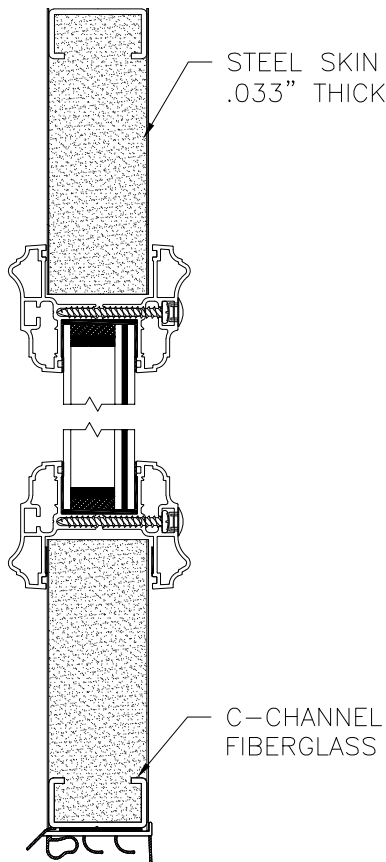
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SLABS AND TRIMS

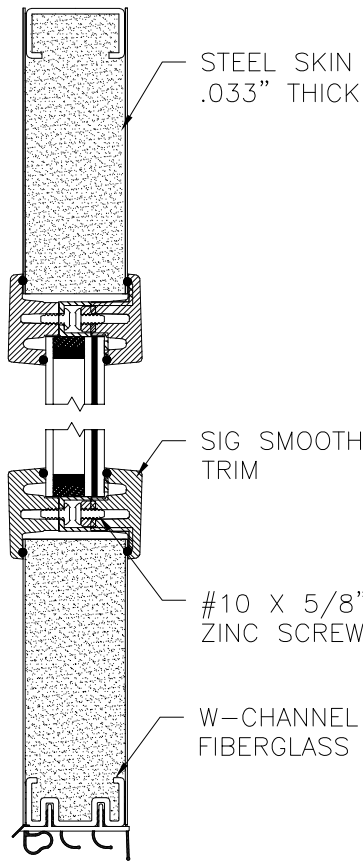
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



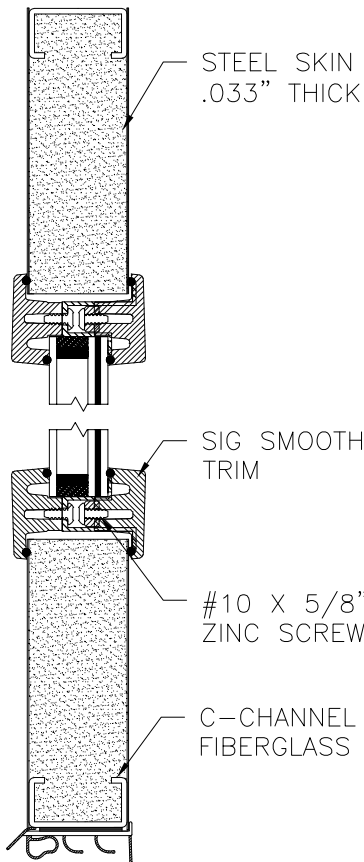
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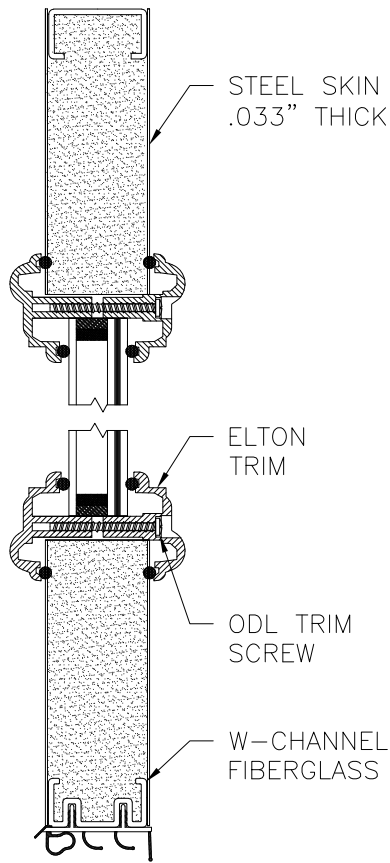
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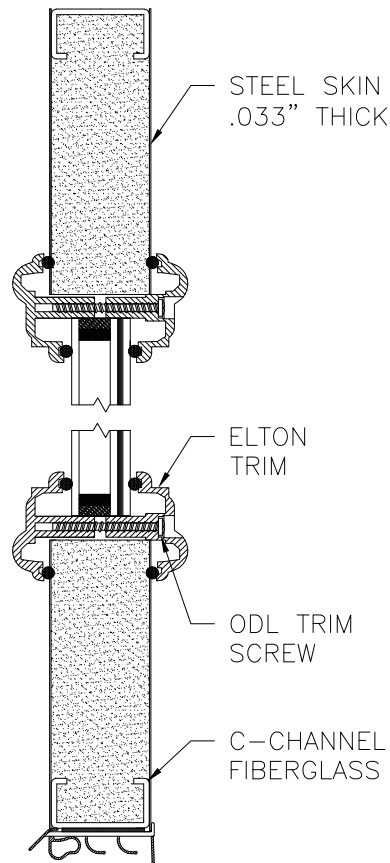
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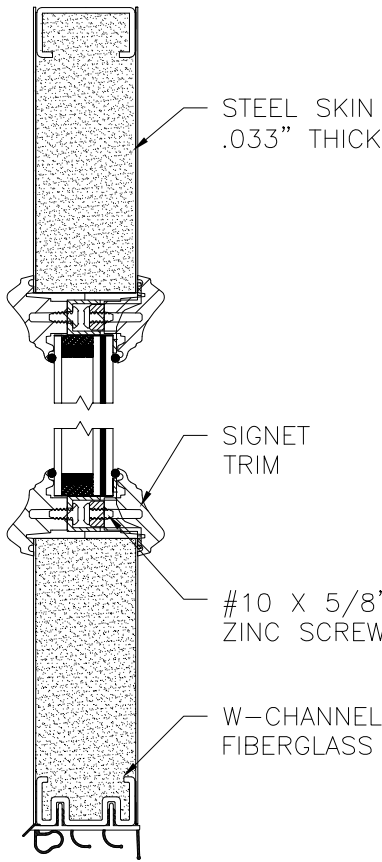
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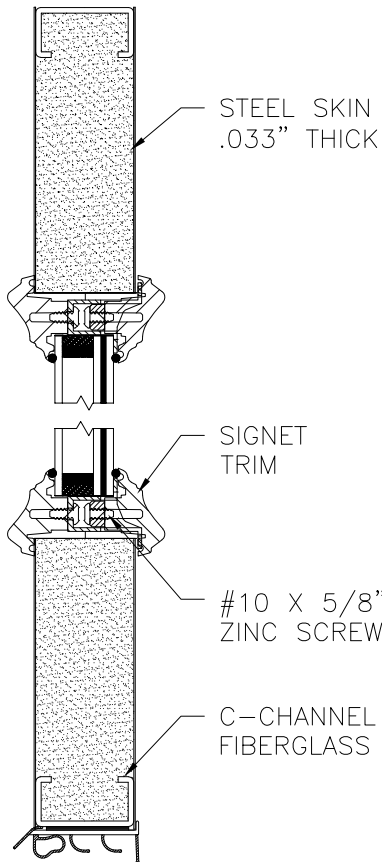
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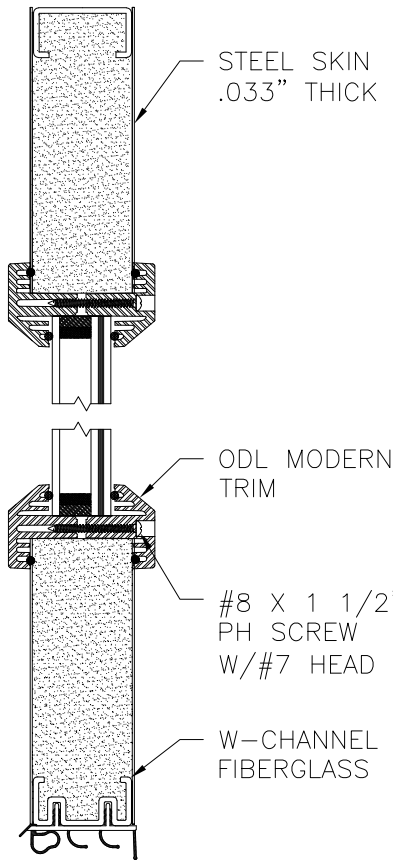
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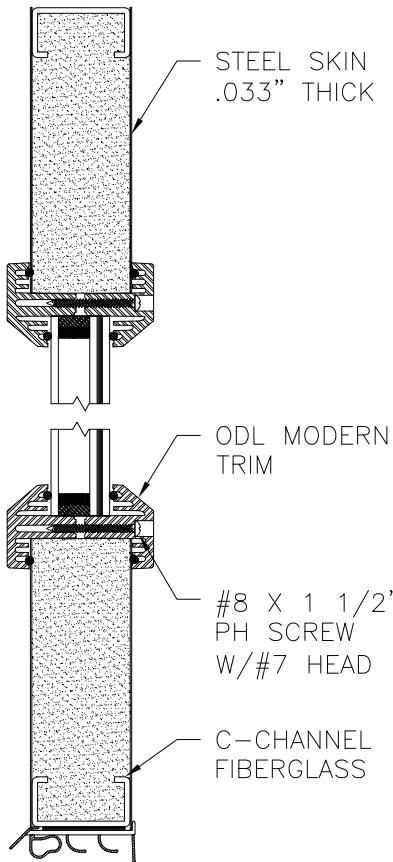
PANEL OPTION 5



PANEL OPTION 6



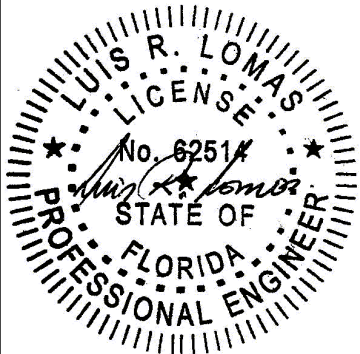
PANEL OPTION 7



PANEL OPTION 8

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED DOUBLE DOOR WITH SIDELITES - IMPACT MULLION DETAILS		
DRAWN: J.L.	DWG NO. 08-02022	REV J
SCALE NTS	DATE 05/10/13	SHEET 14 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

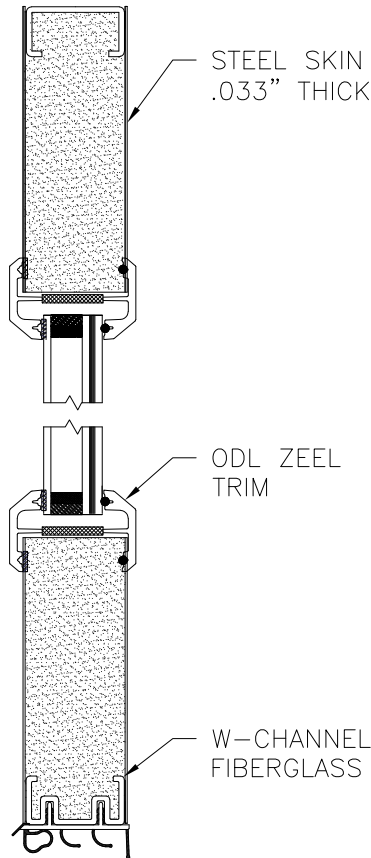
SIGNED: 08/27/2024



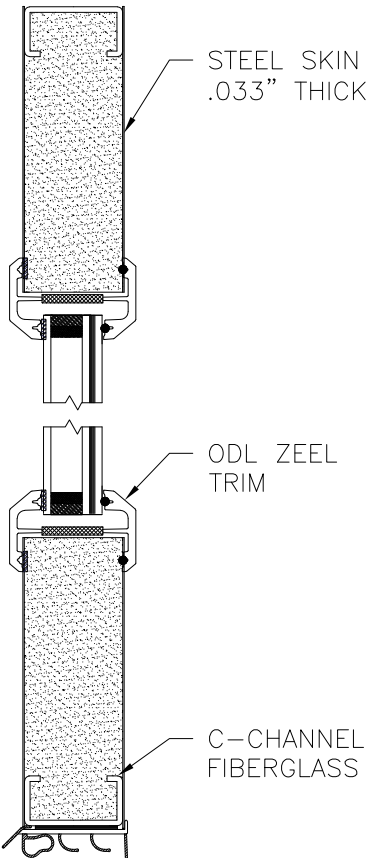
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SLABS AND TRIMS

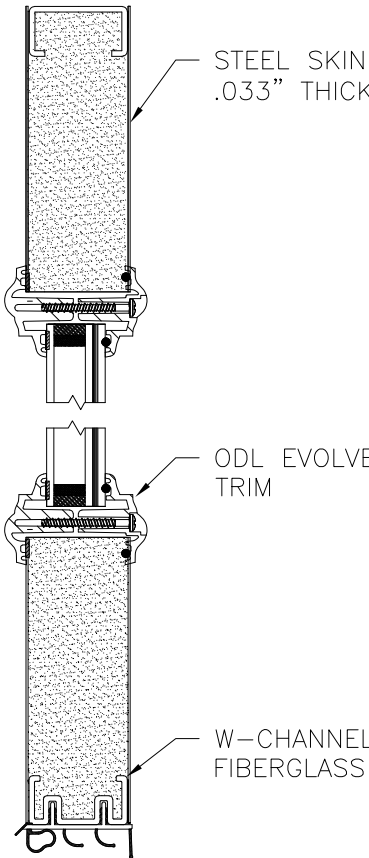
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



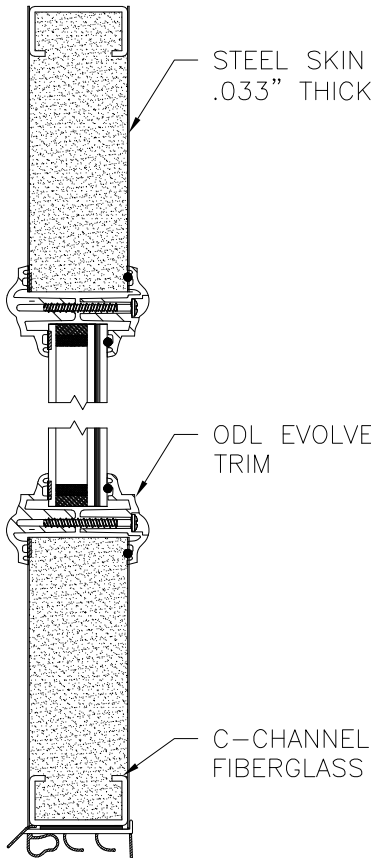
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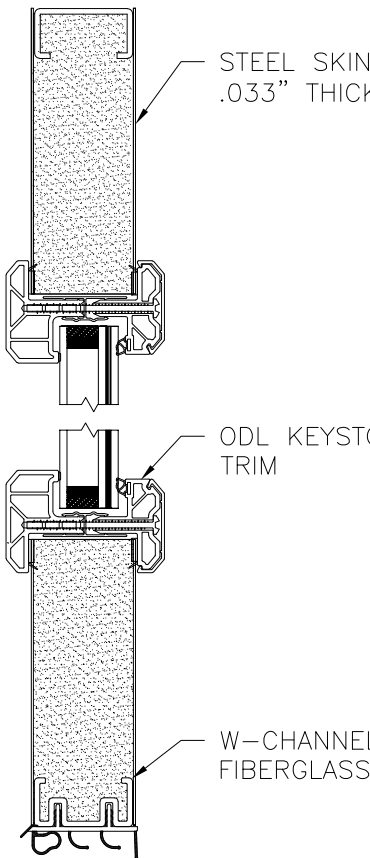
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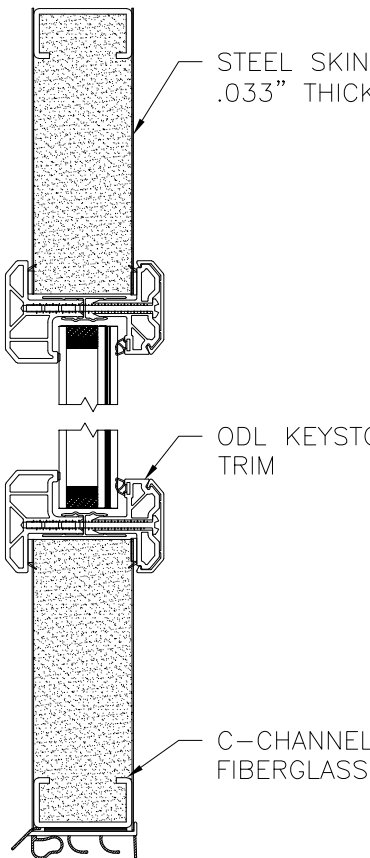
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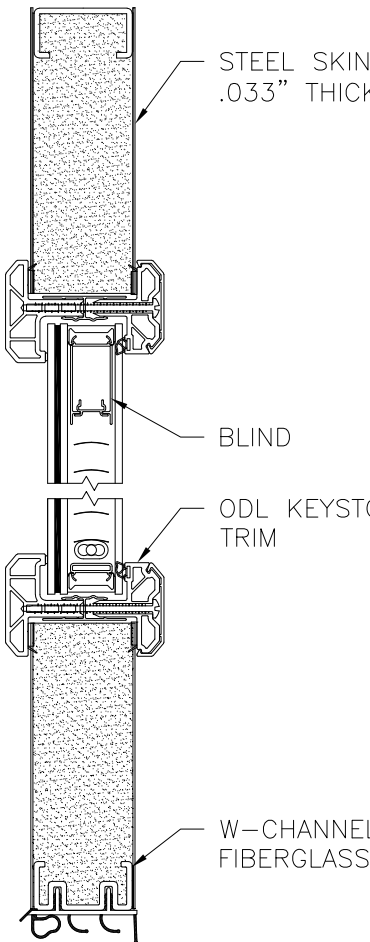
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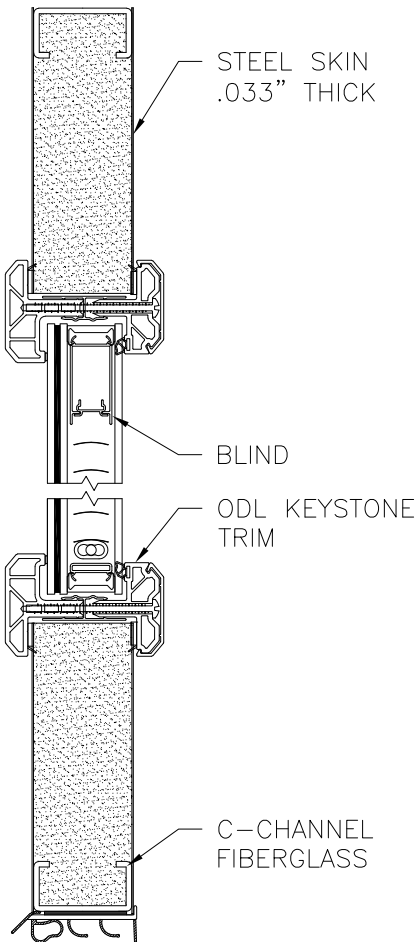
PANEL OPTION 17



PANEL OPTION 18



PANEL OPTION 15



PANEL OPTION 16

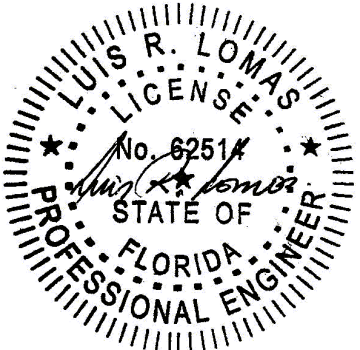
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED DOUBLE DOOR
WITH SIDELITES – IMPACT
MULLION DETAILS

DRAWN: J.L.	DWG NO. 08-02022	REV J
SCALE NTS	DATE 05/10/13	SHEET 15 OF 16

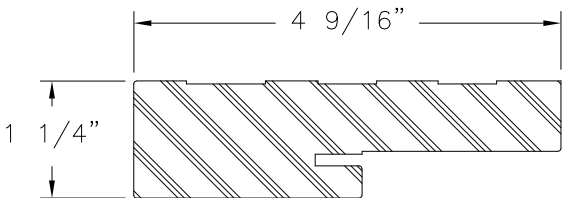
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/27/2024

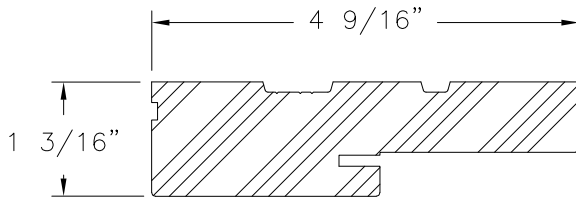


Luis R. Lomas P.E.
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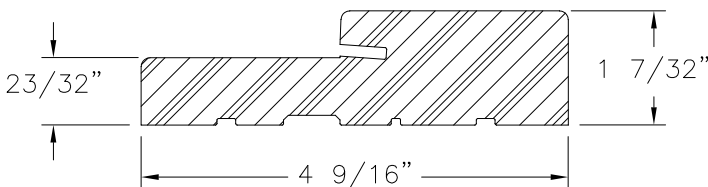
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



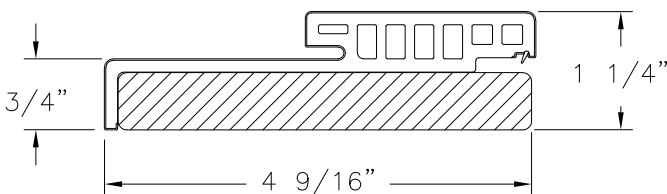
COMPOSITE FRAME PROFILE



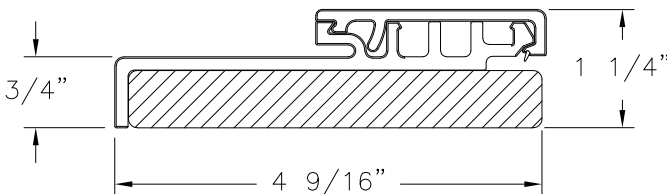
WOOD FRAME PROFILE



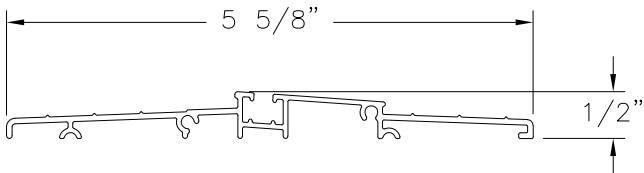
FRAMESAVER
COMPOSITE



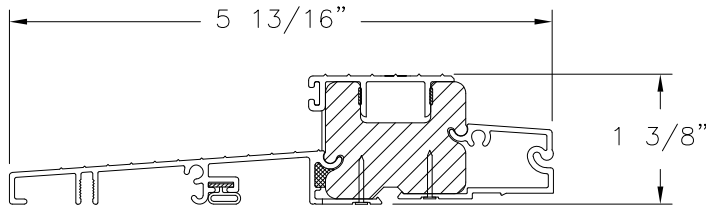
HYBRID HEAD
WOOD/COMPOSITE



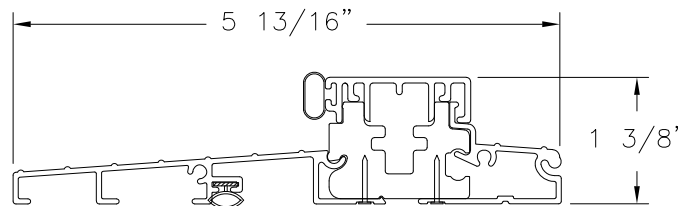
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WOOD/COMPOSITE



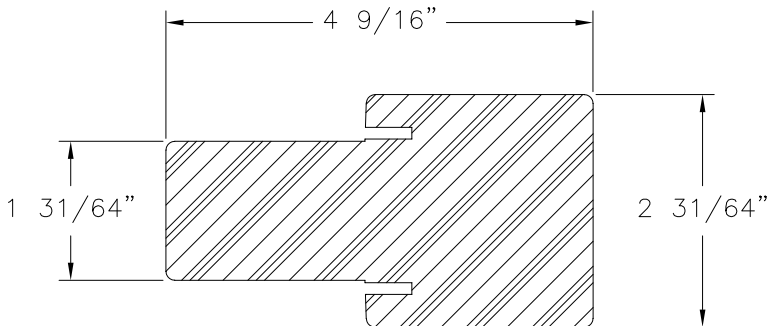
ADA THRESHOLD



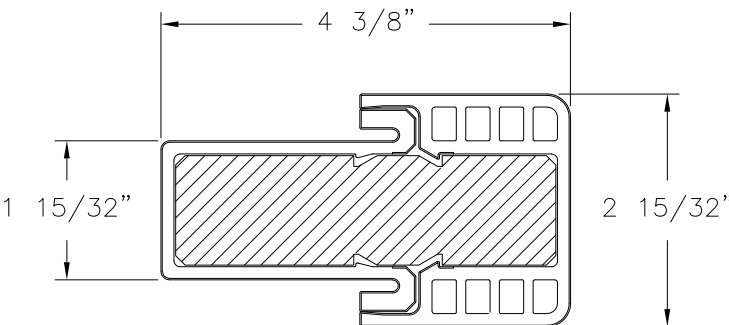
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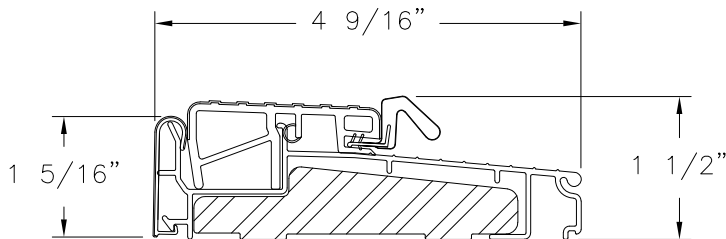
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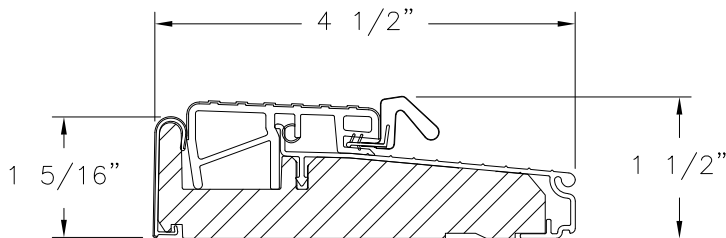
FAT BOY MULLION
COMPOSITE



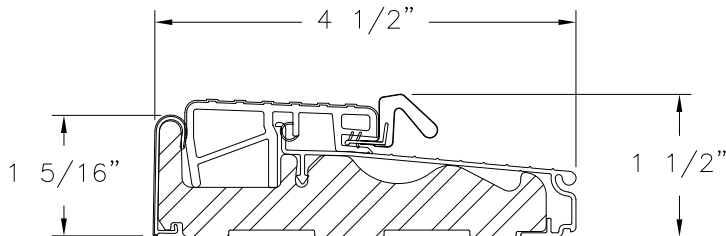
HYBRID FAT BOY MULLION
COMPOSITE



OUTSWING SILL ZOBL4565



OUTSWING SILL ZOB4565F



OUTSWING SILL ZOBLH4565

SIGNED: 08/27/2024

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

STEEL OUTSWING GLAZED DOUBLE DOOR
WITH SIDELITES – IMPACT
COMPONENTS

DRAWN:
J.L.

DWG NO.
08-02022

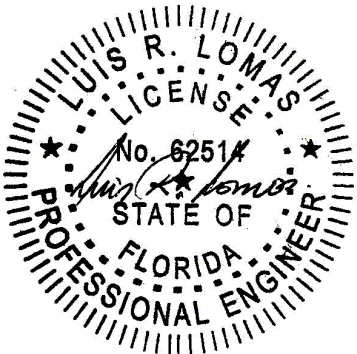
REV
J

SCALE NTS

DATE 05/10/13

SHEET 16 OF 16

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