

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	ADDED SILLS	01/06/2020	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. WOOD FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. 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.
7. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: WOOD G .46 MINIMUM OR FRAMESAVER, OR FUSION FRAME.
12. UNITS MUST BE GLAZED PER ASTM E1300-04/09, SEE SHEET 17 FOR GLASS DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #8 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.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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:
 - A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .048" THICK MINIMUM
19. DOOR PANEL MATERIAL: 20GA. STEEL SKIN WITH .054" STEEL TOP AND BOTTOM RAILS.
20. UNITS MAY BE INSTALLED WITH EITHER SCHLAGE F-SERIES DOOR KNOB AND B-SERIES OR F-SERIES DEADBOLT OR EMTEK RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY OR MULTI-POINT LOCK HANDLE ASSEMBLY BY TRILENNIUM, SEE HARDWARE SCHEDULE SHEET 2 FOR APPROVED HARDWARE.

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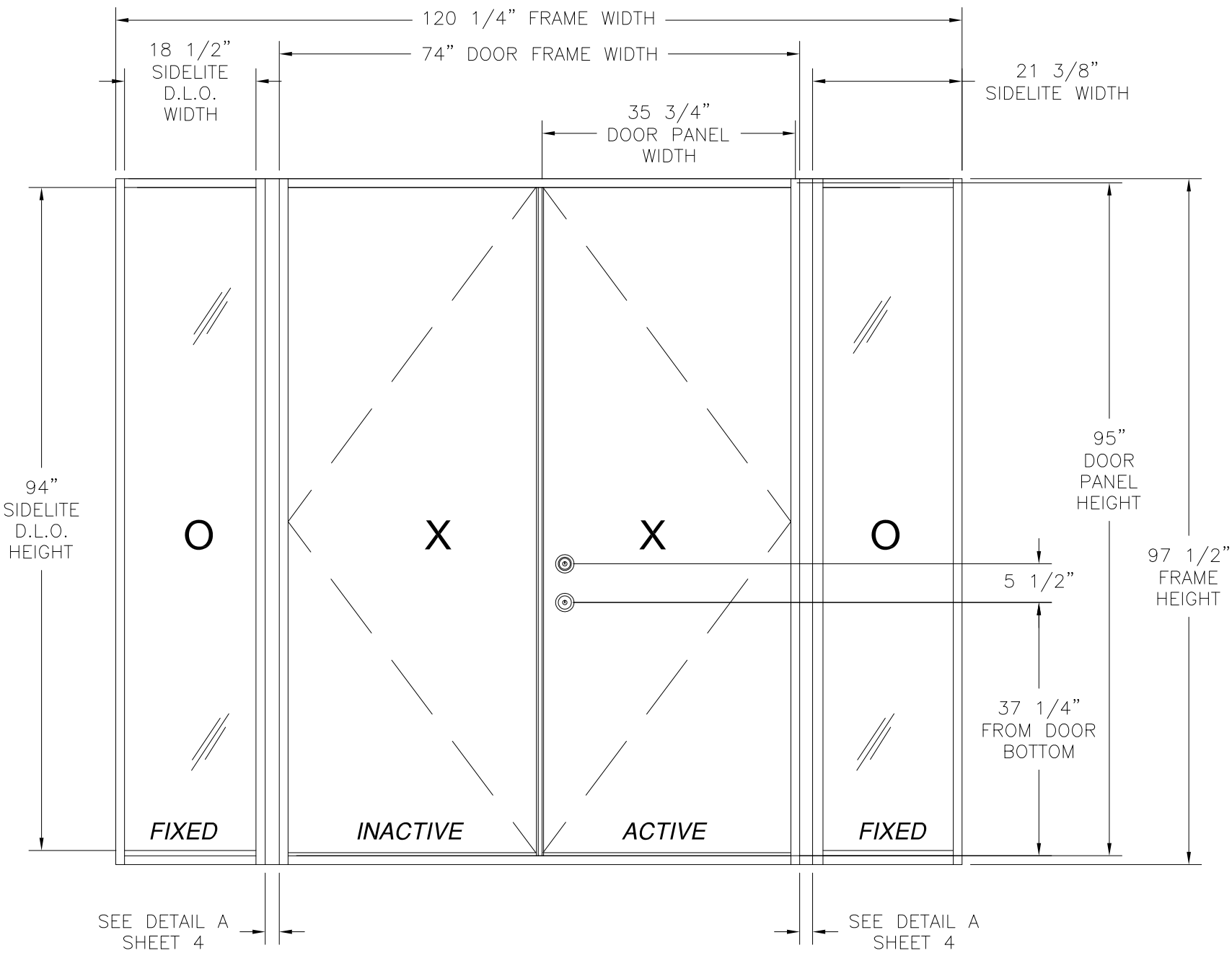
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
20GA. STEEL DOOR IS/OS W/ AND W/OUT SIDELITES NOTES		
DRAWN: TJH	DWG NO. 08-00950	REV E
SCALE NTS	DATE 02/15/10	SHEET 1 OF 19
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 01/08/2020



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

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20GA. STEEL INSWING DOUBLE DOOR W/SIDELITES
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-51.0PSF	LARGE AND SMALL MISSILE IMPACT
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE THE WATER REQUIREMENT IS NOT NEEDED	

FOR ADDITIONAL APPROVED CONFIGURATIONS SEE SHEET 3.
35 3/4" X 95" PANEL SHOWN, OTHER SIZES APPROVED AS LONG AS INDIVIDUAL
PANEL AREA DOES NOT EXCEED 23.58 FT²
AND SIDELITE PANELS DO NOT EXCEED INDIVIDUAL PANEL AREA OF 14.47 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.	INSWING HURRICANE ASTRAGAL BY ENDURA.
G.	OUTSWING HURRICANE ASTRAGAL BY ENDURA.
H.	(3) 4" x 4" BALL BEARING HINGES BY PENROD.
I.	(3) 4" x 4" SPRING BOMMER HINGES BY PENROD.

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20GA. STEEL DOOR IS/OS
W/ AND W/OUT SIDELITES
INSWING ELEVATION & HARDWARE SCHEDULE

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TJH

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08-00950

REV
E

SCALE
NTS

DATE
02/15/10

SHEET
2 OF 19

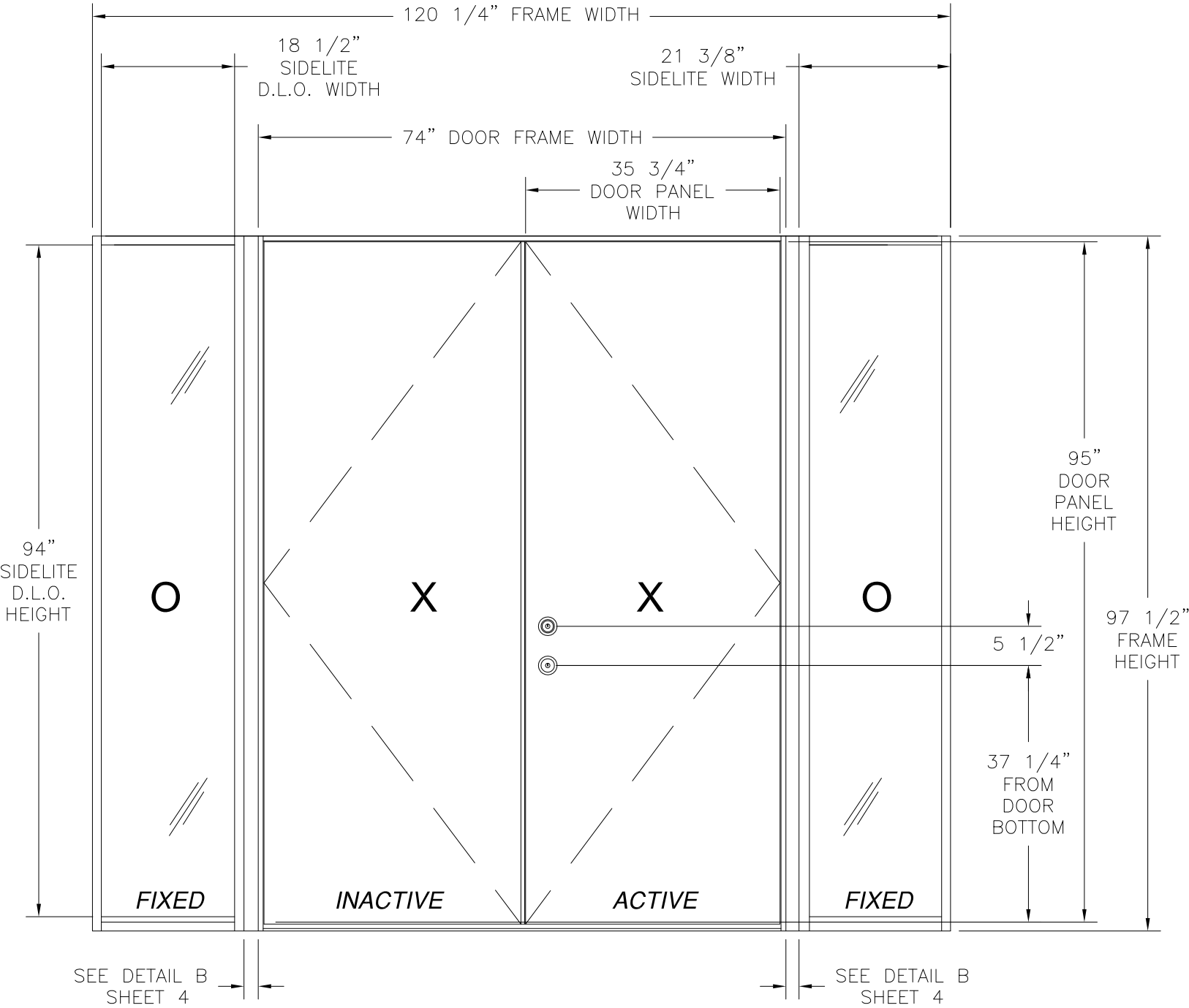
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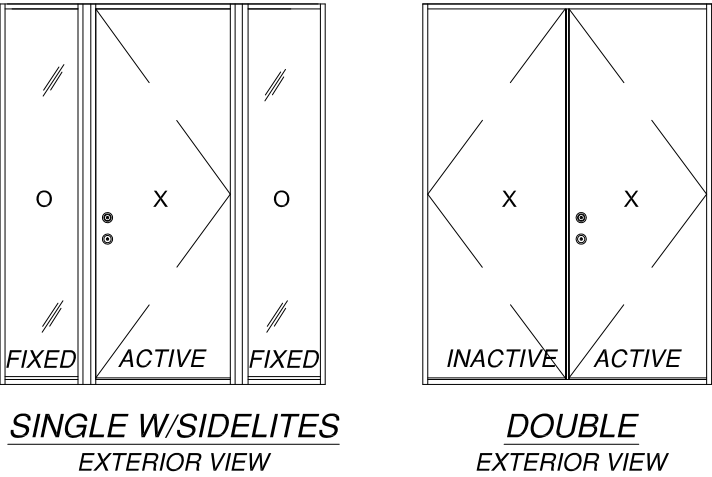
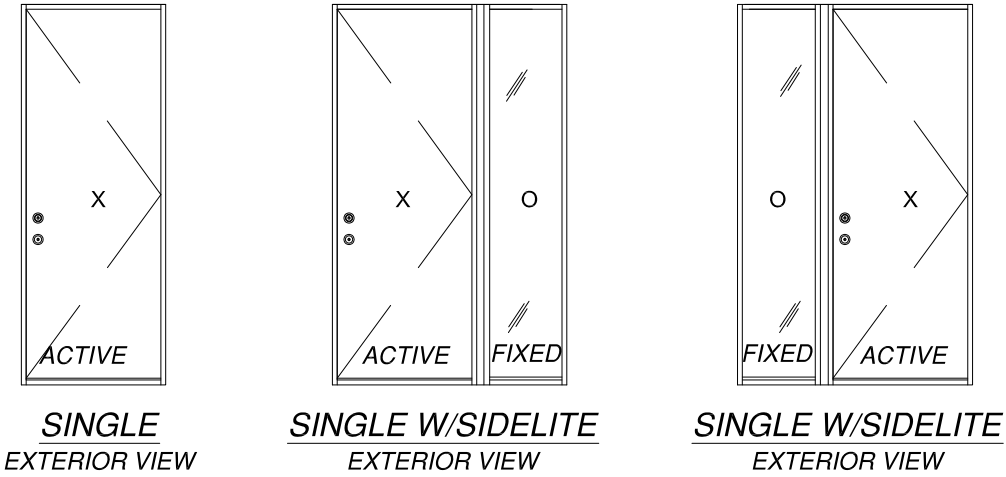


20GA. STEEL OUTSWING DOUBLE DOOR W/SIDELITES
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-51.0PSF	LARGE AND SMALL MISSILE IMPACT
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NOTE:
APPROVED CONFIGURATIONS MAY BE INSWING
OR OUTSWING RIGHT HAND ACTIVE OR LEFT
HAND ACTIVE.



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20GA. STEEL DOOR IS/OS
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OUTSWING ELEVATION & APPROVED CONFIGURATIONS

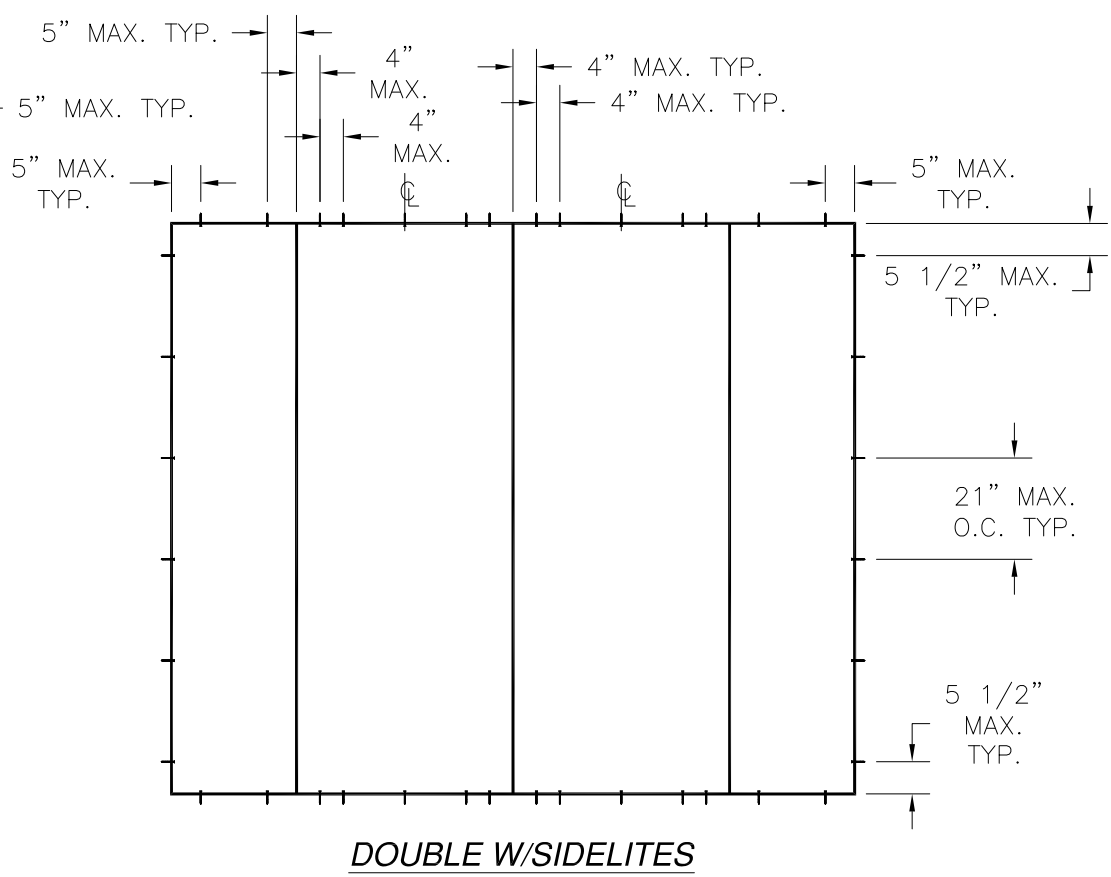
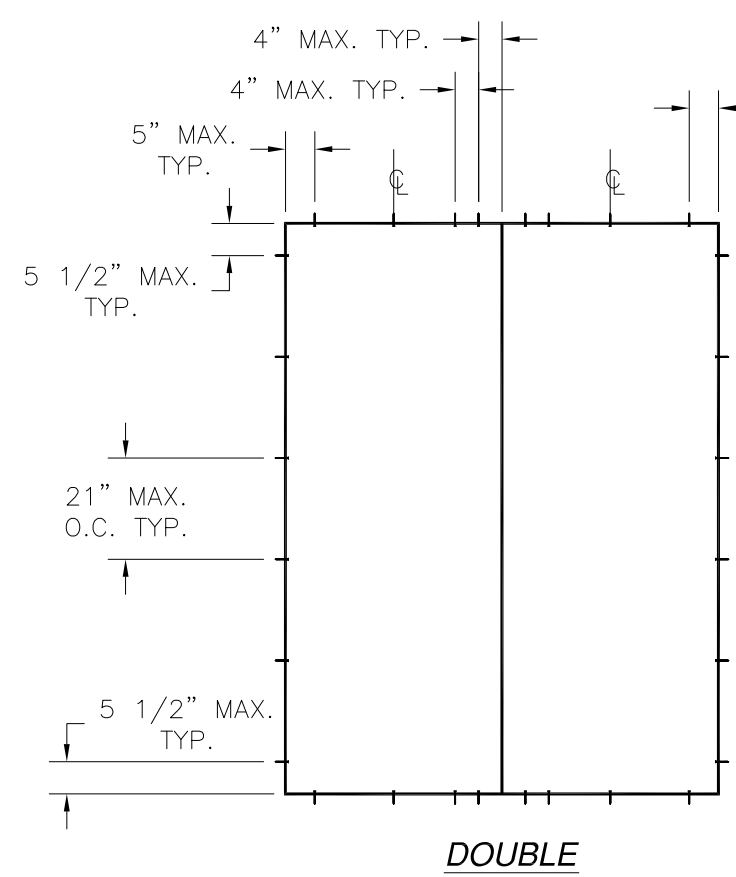
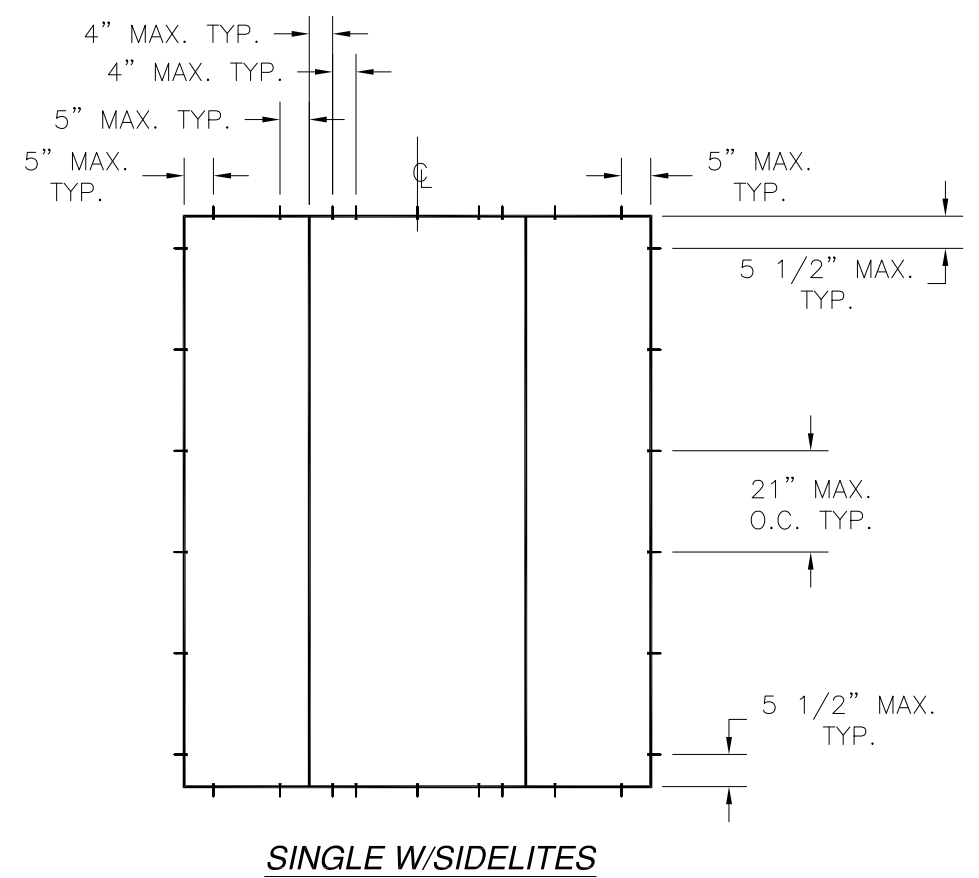
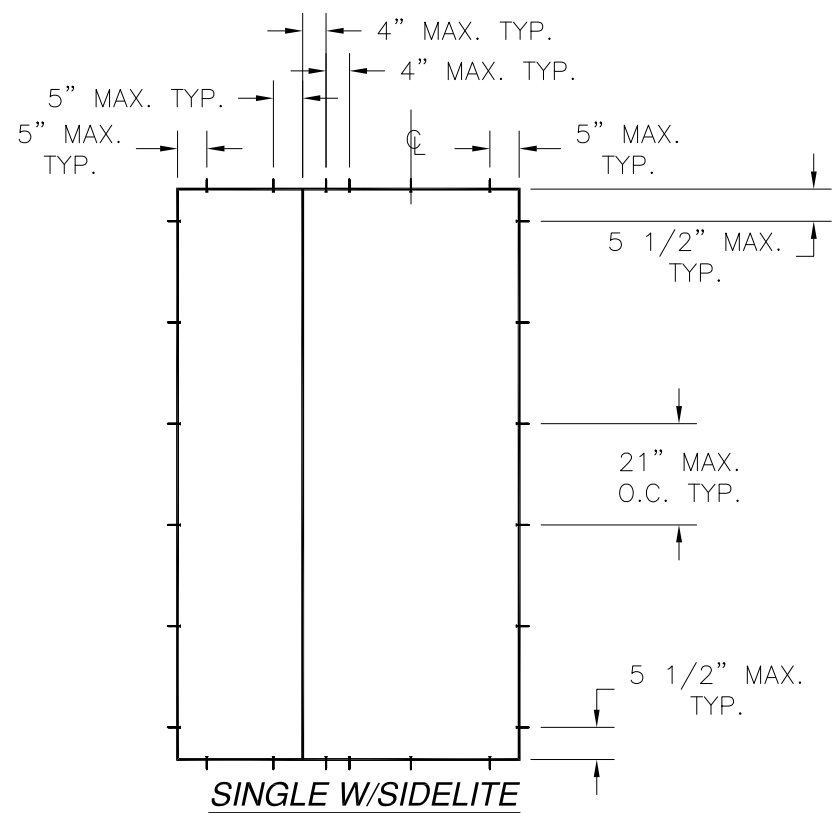
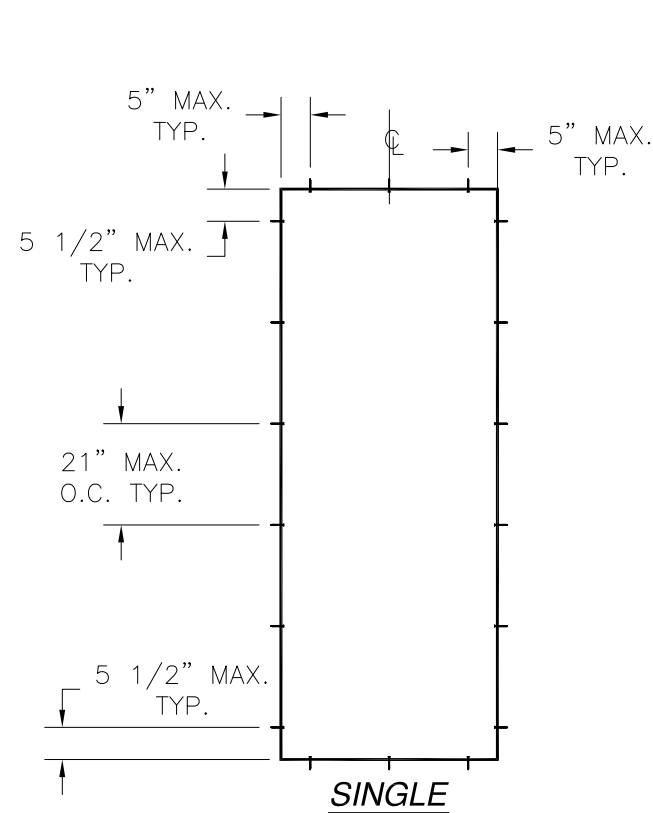
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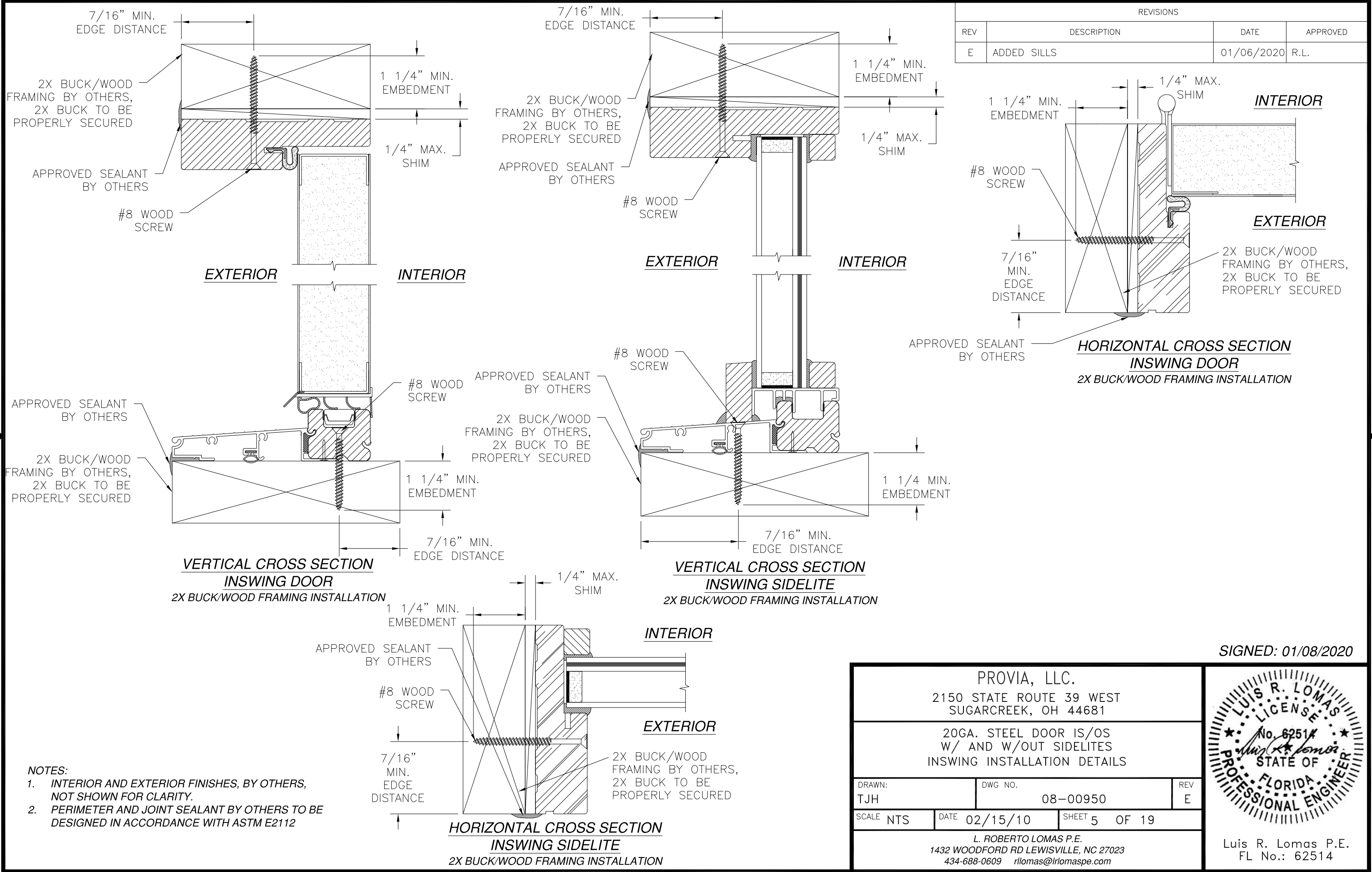
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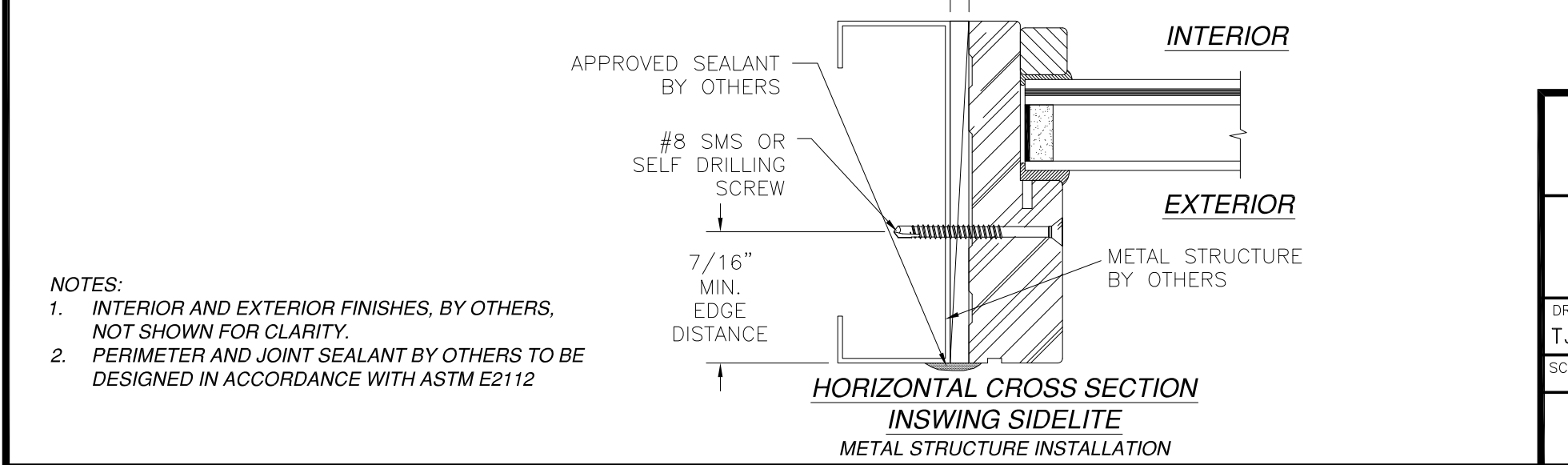
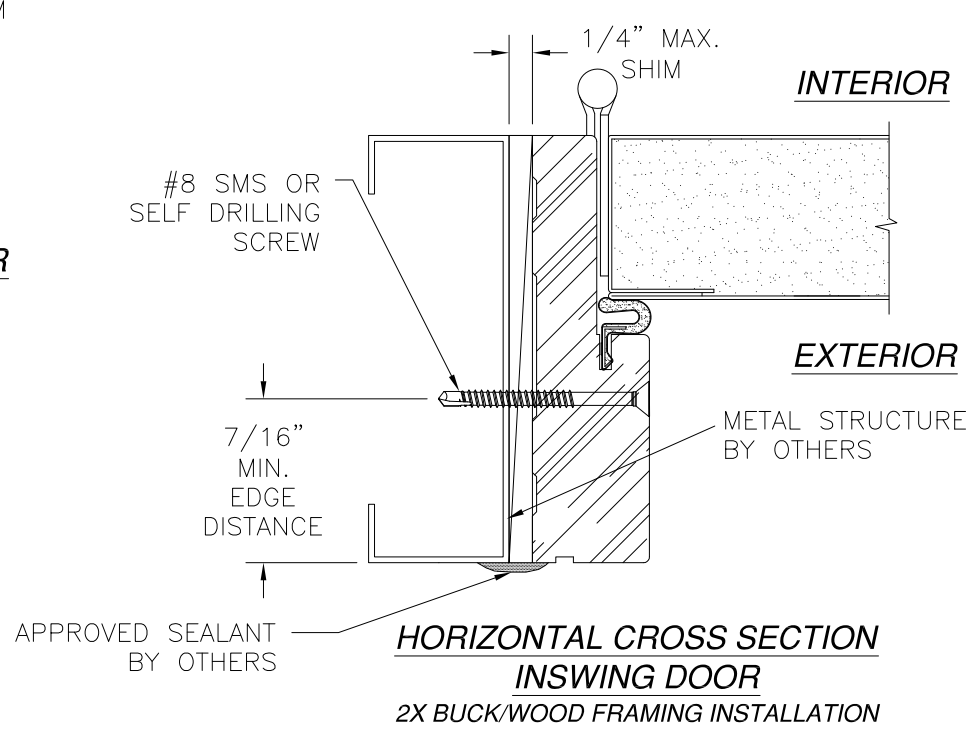
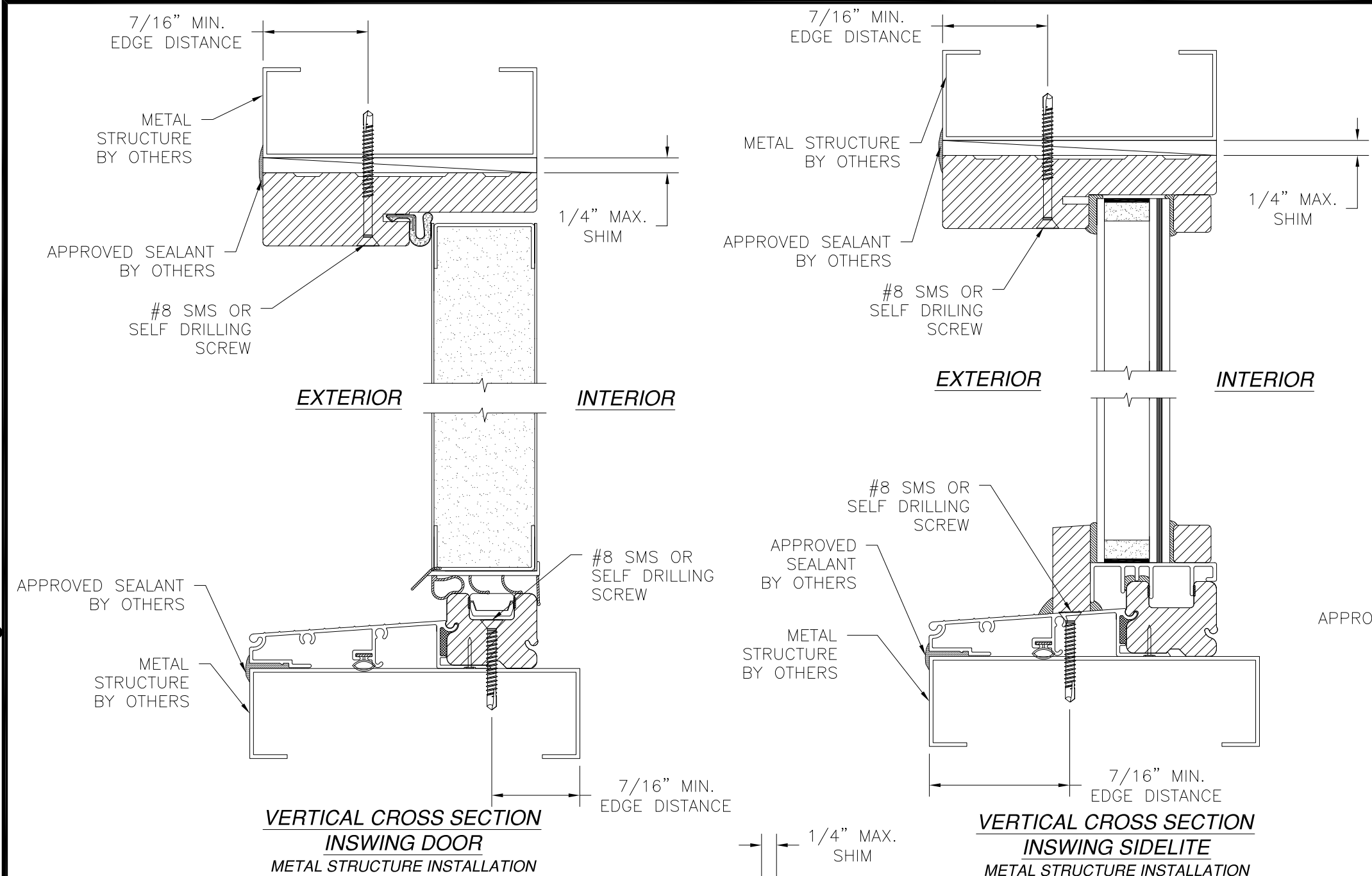
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- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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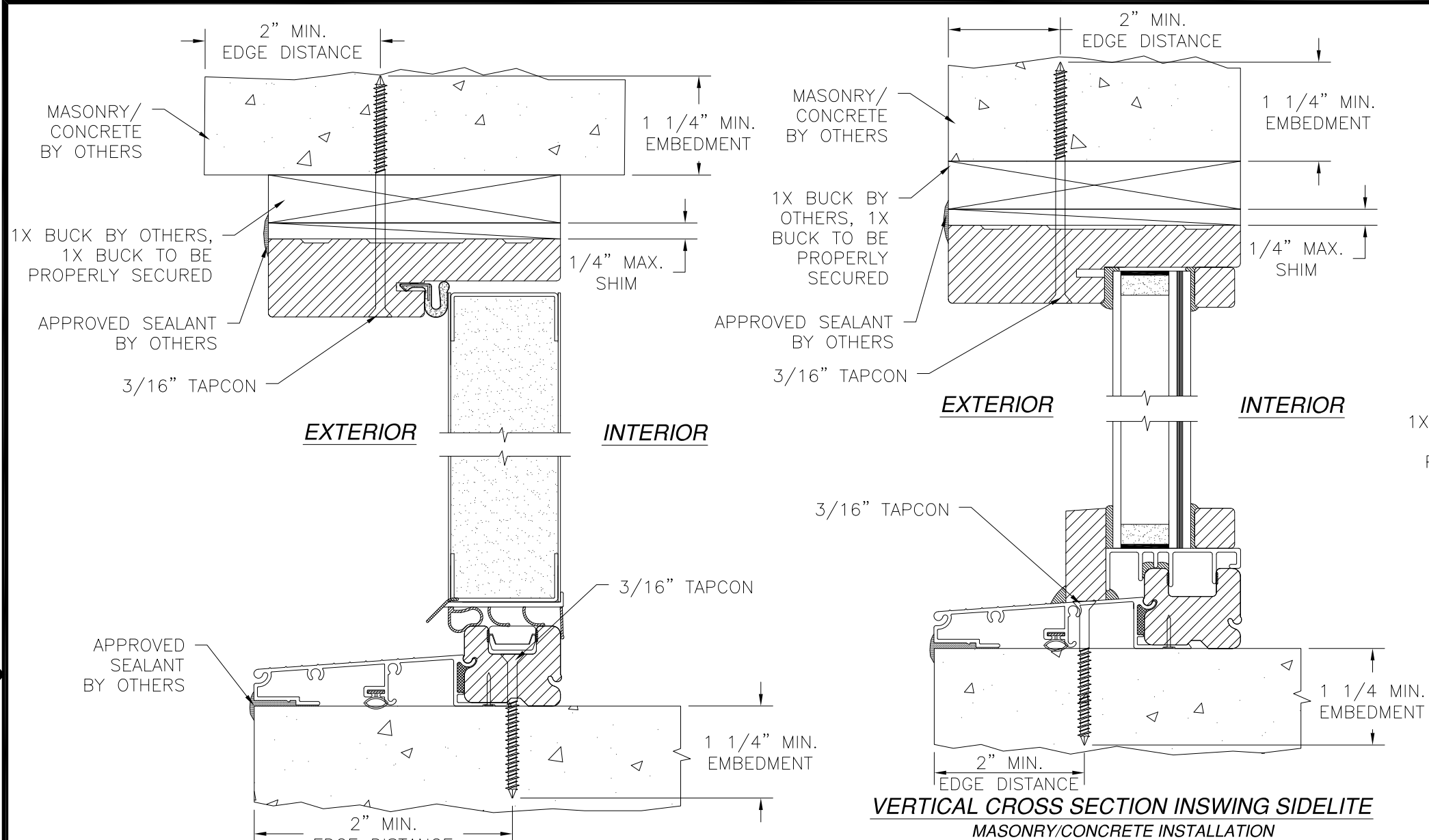
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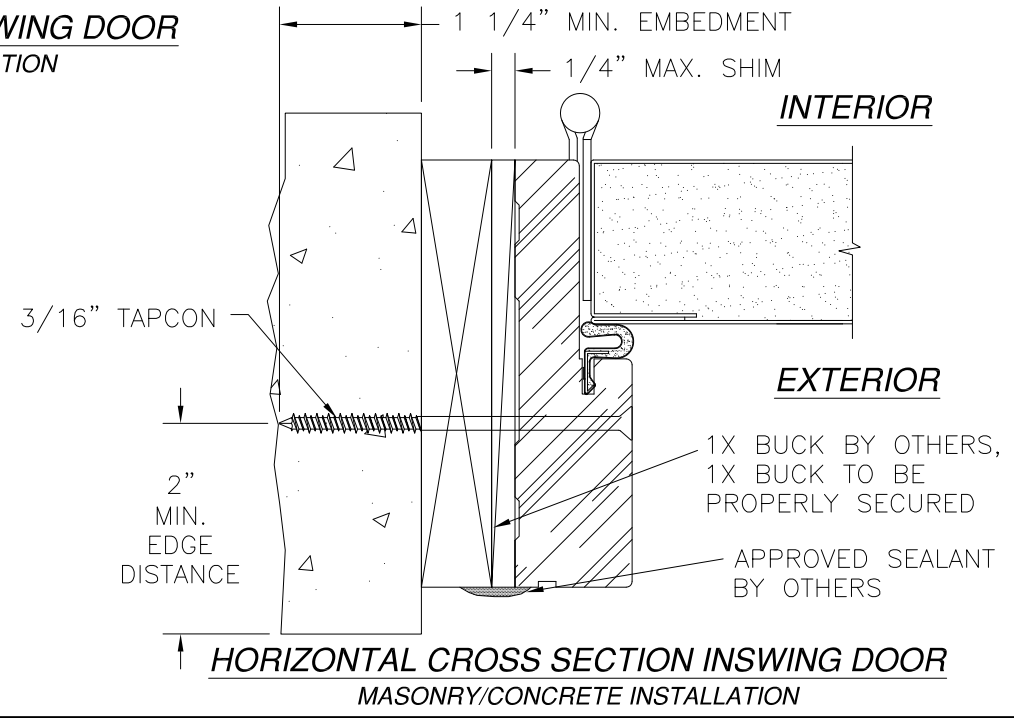
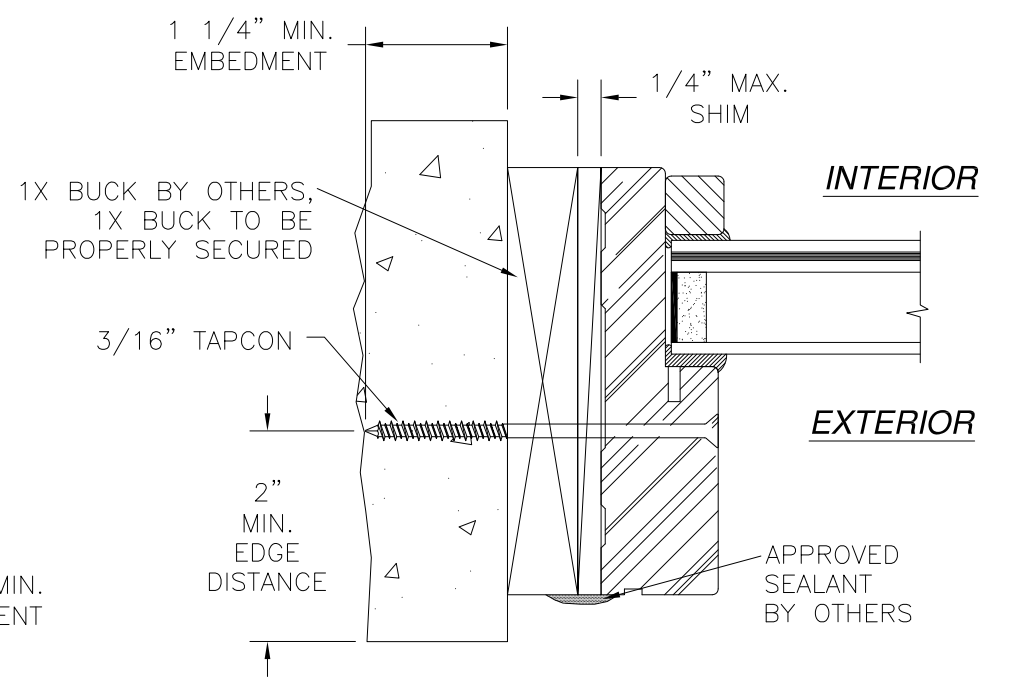
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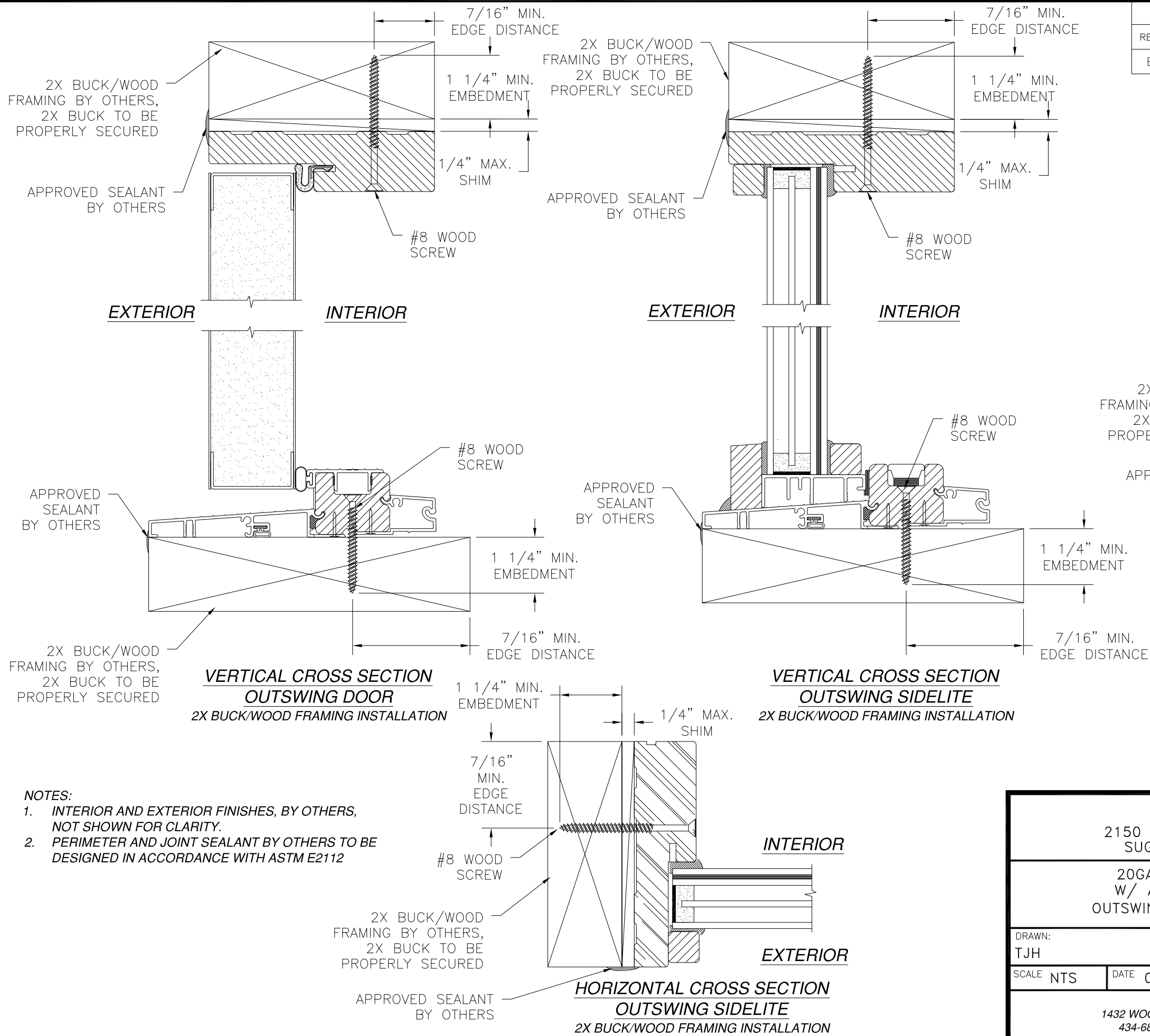
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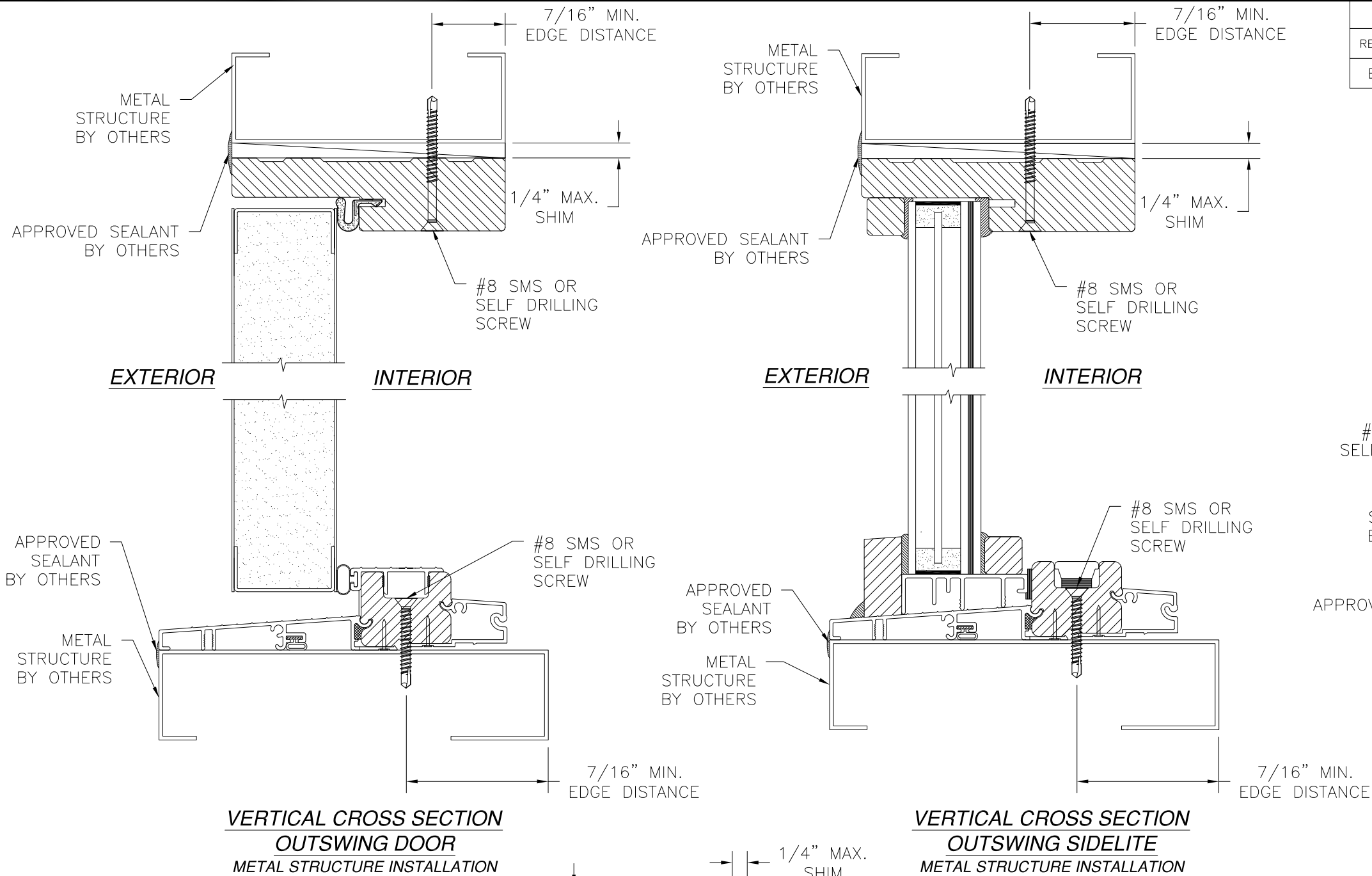
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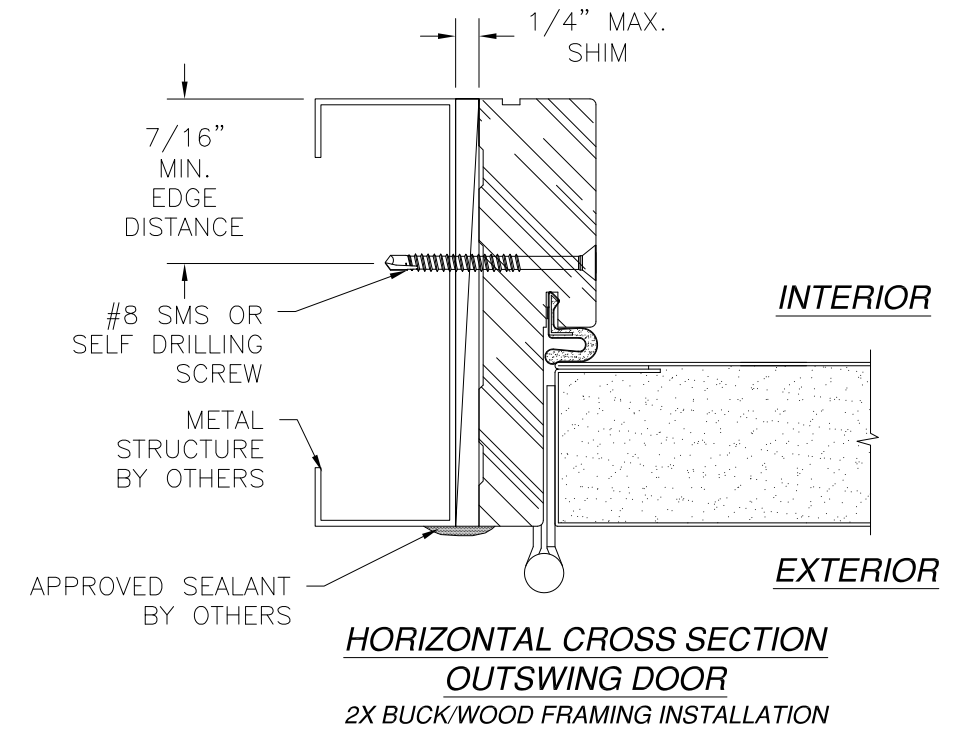
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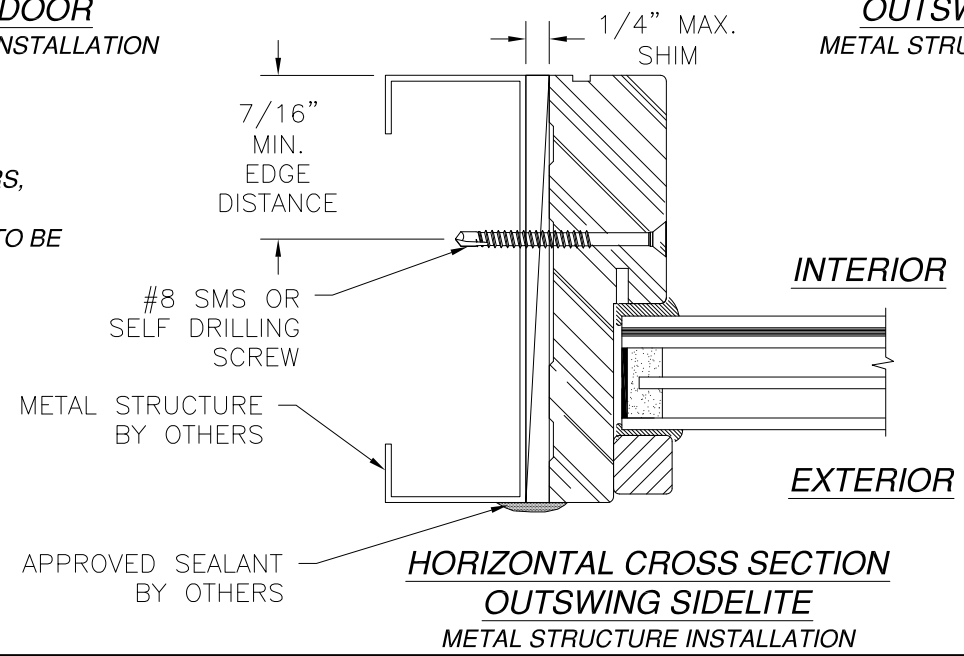
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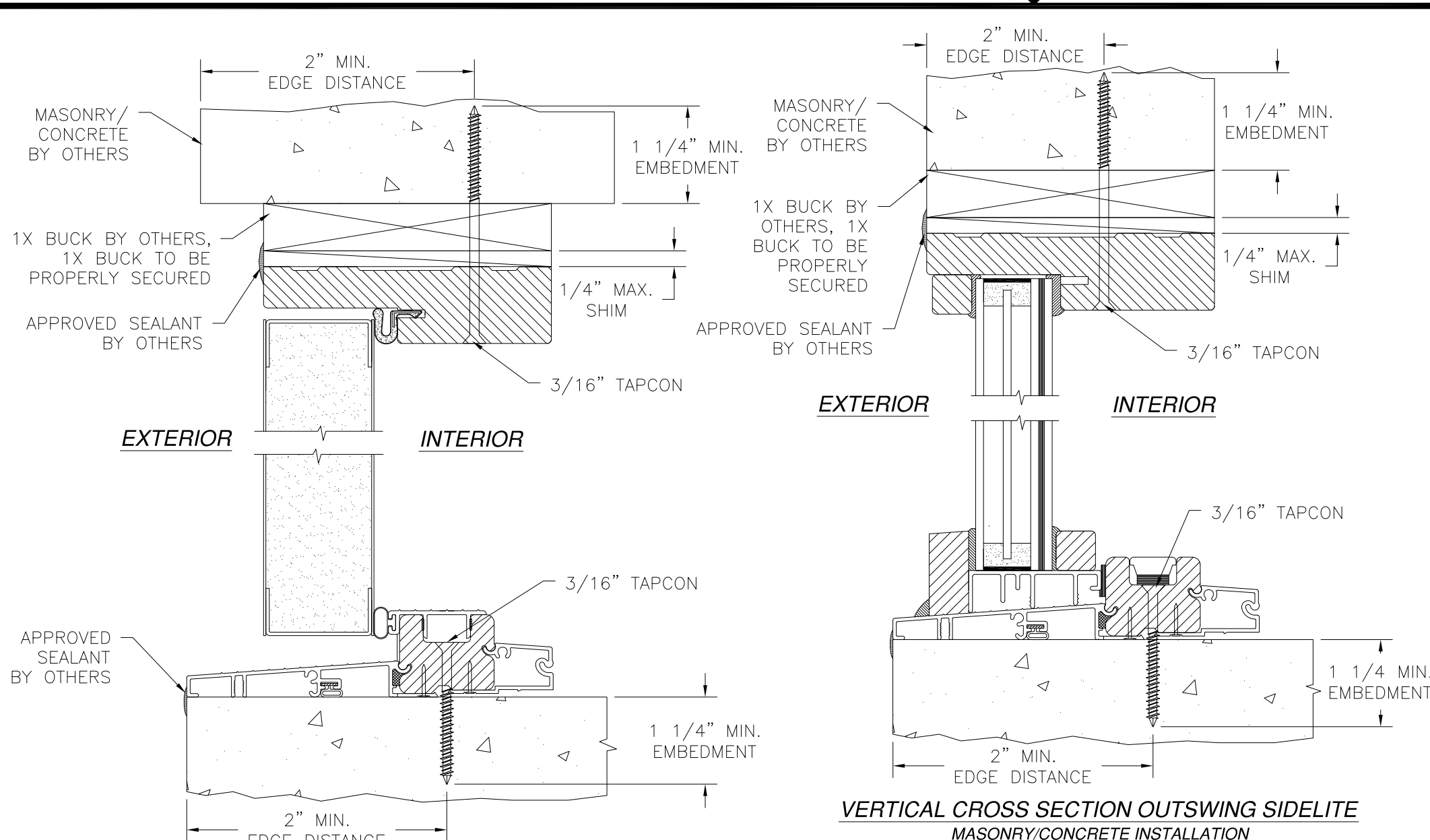
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 OUTSWING INSTALLATION DETAILS

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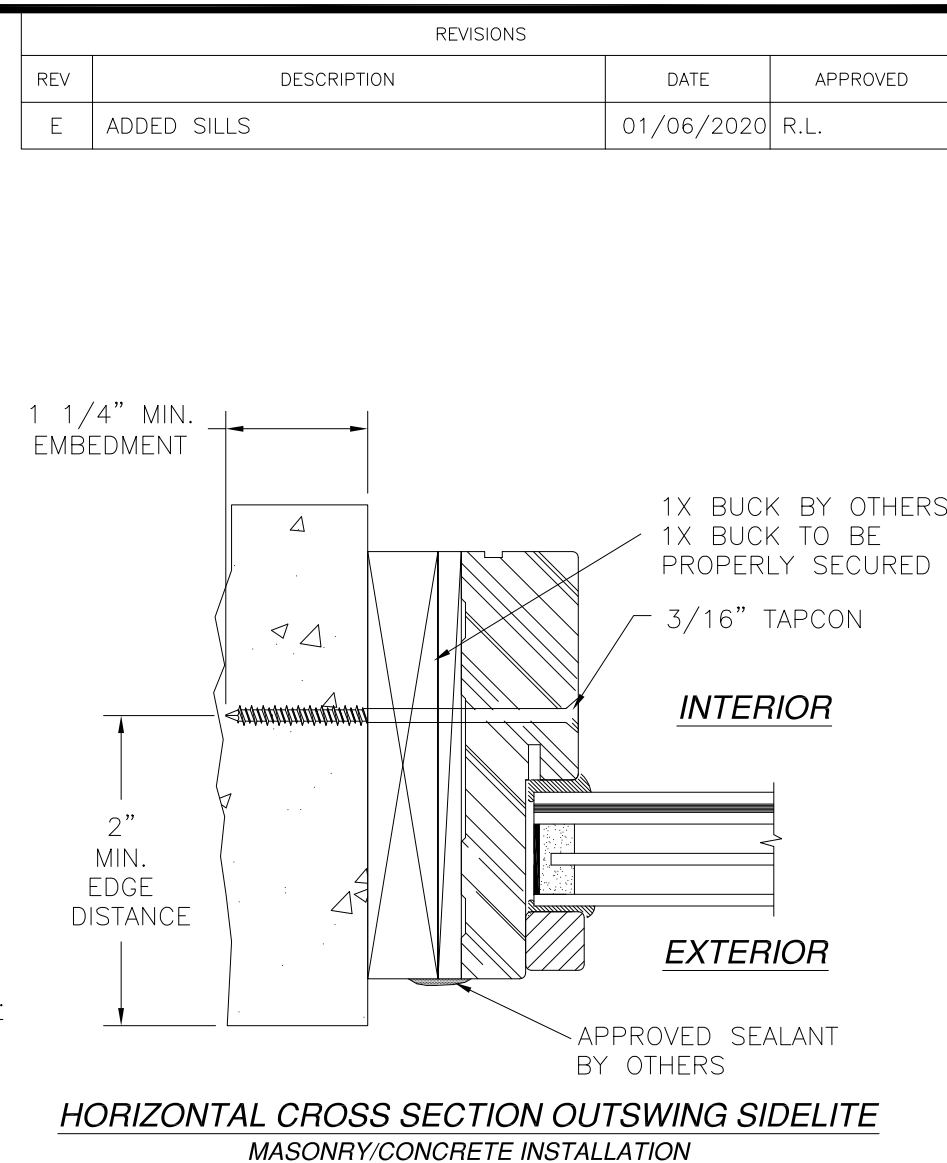
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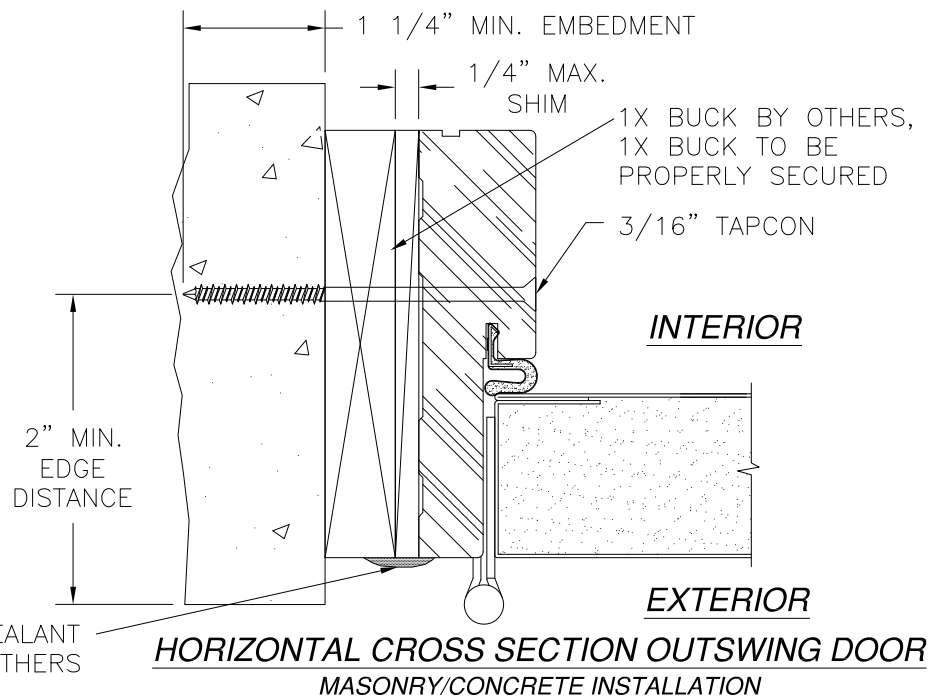


**VERTICAL CROSS SECTION
OUTSWING DOOR**
MASONRY/CONCRETE INSTALLATION

VERTICAL CROSS SECTION OUTSWING SIDELITE
MASONRY/CONCRETE INSTALLATION



HORIZONTAL CROSS SECTION OUTSWING SIDELITE
MASONRY/CONCRETE INSTALLATION



HORIZONTAL CROSS SECTION OUTSWING DOOR
MASONRY/CONCRETE INSTALLATION

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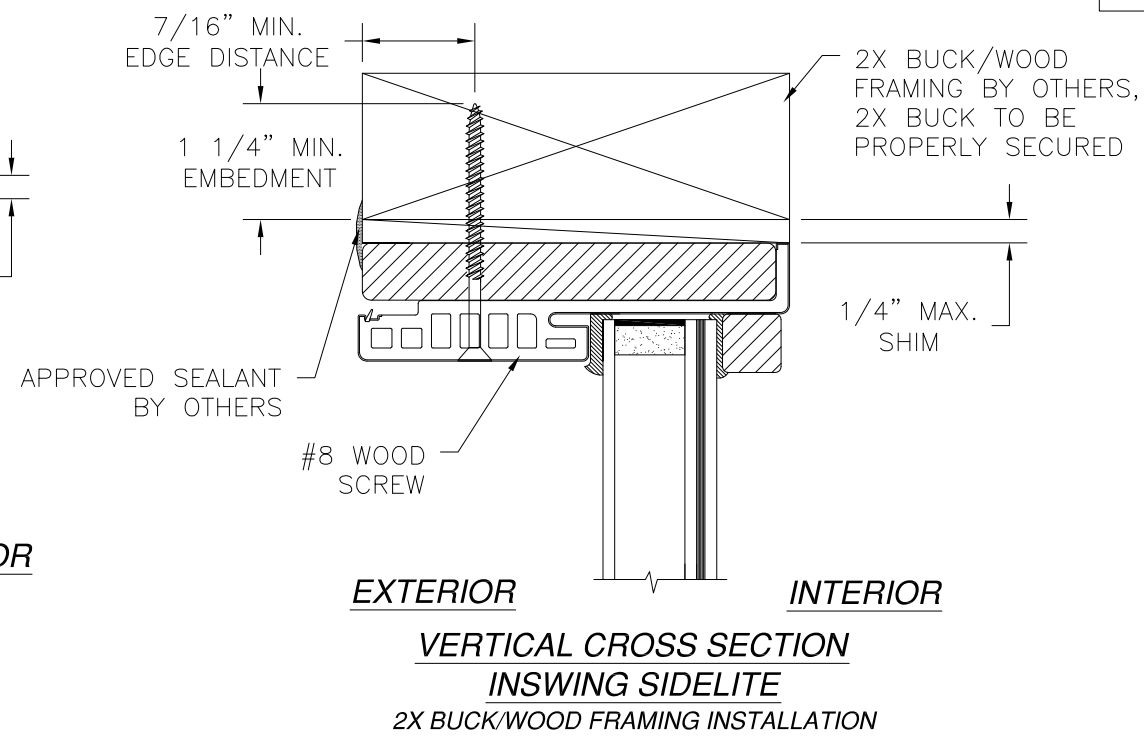
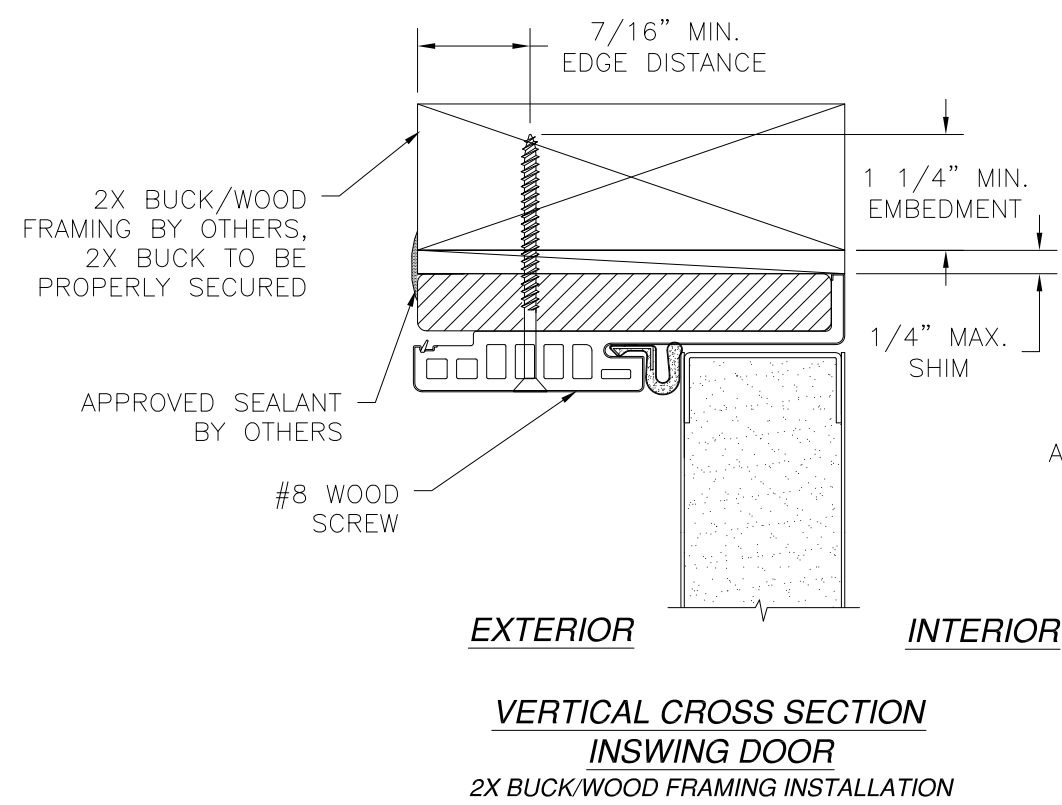
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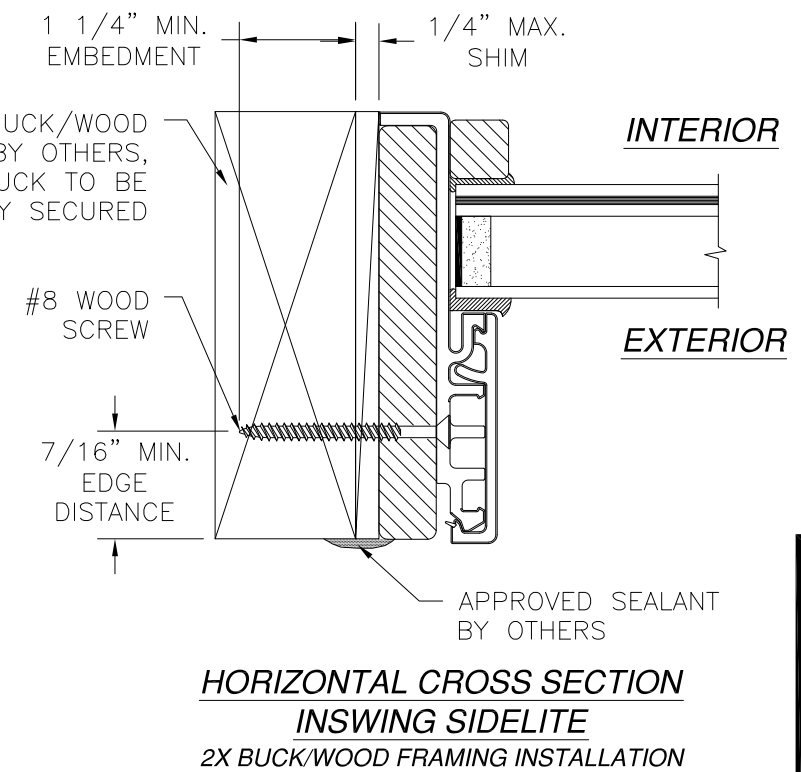
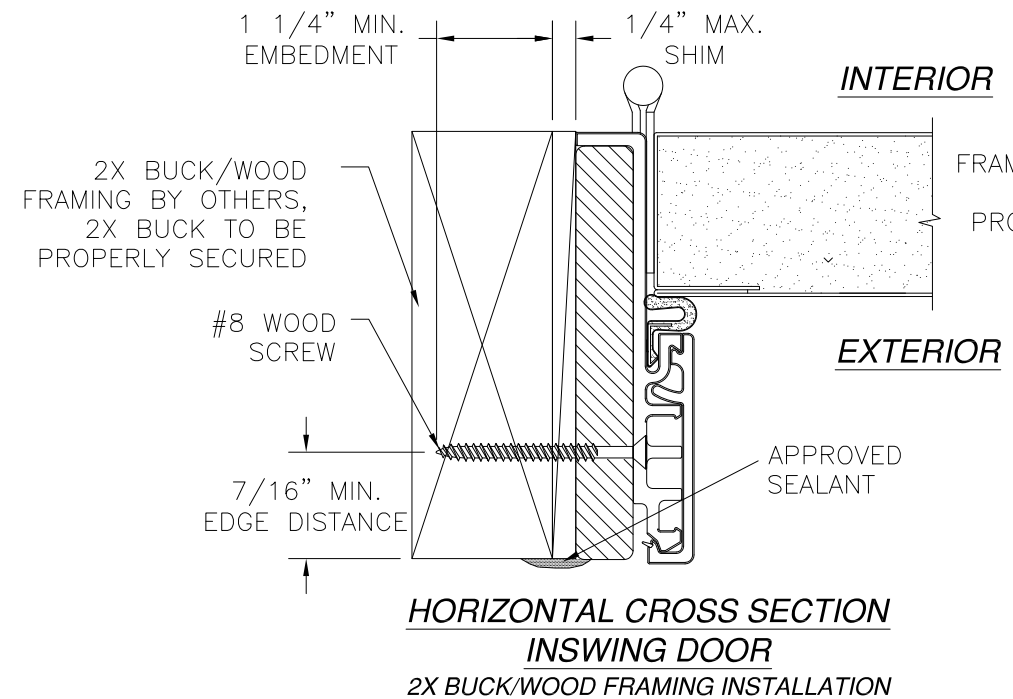
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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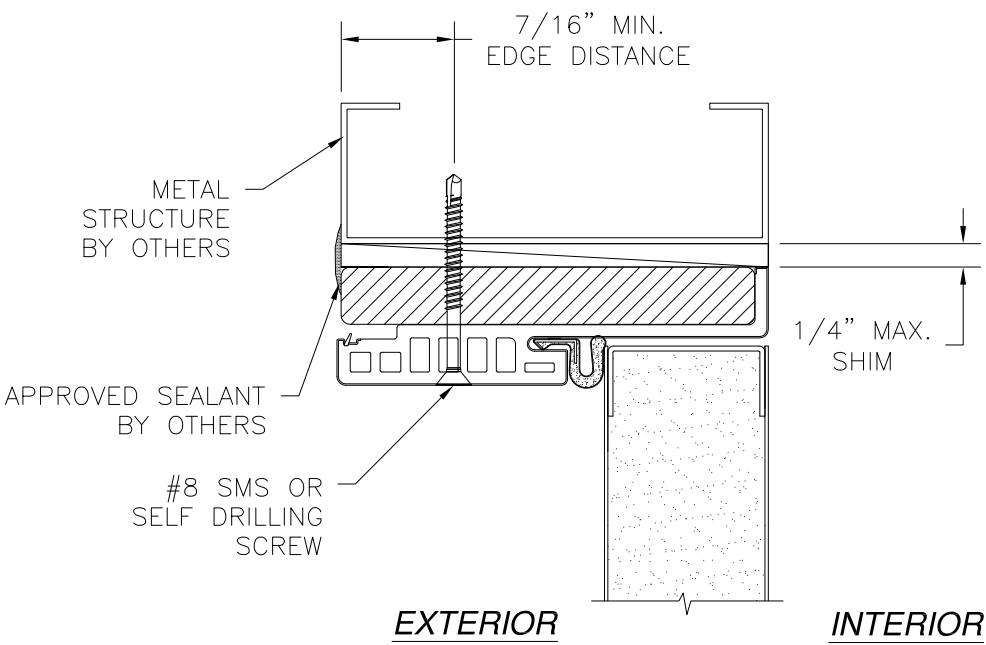


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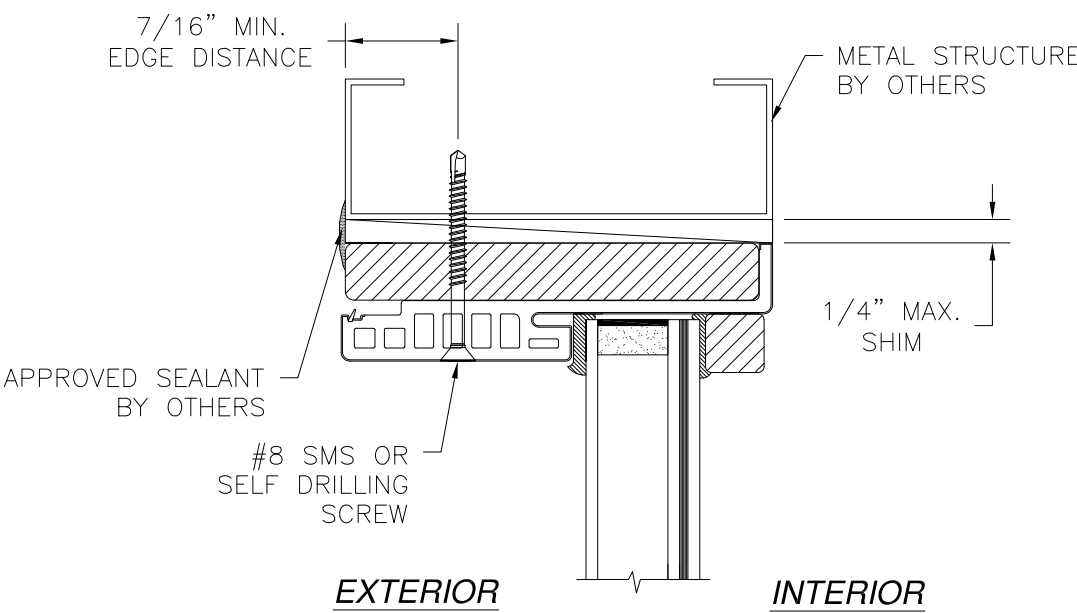
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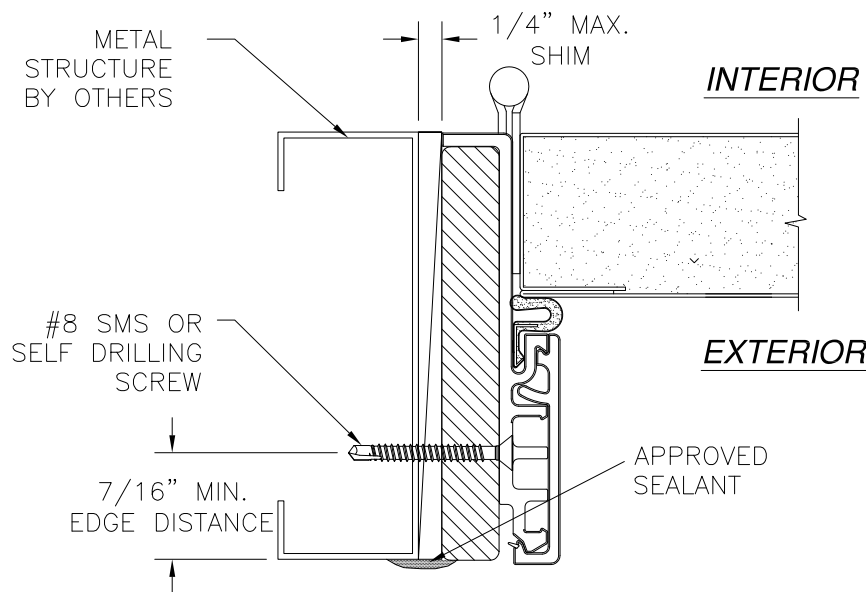


VERTICAL CROSS SECTION
INSWING DOOR
METAL STRUCTURE INSTALLATION

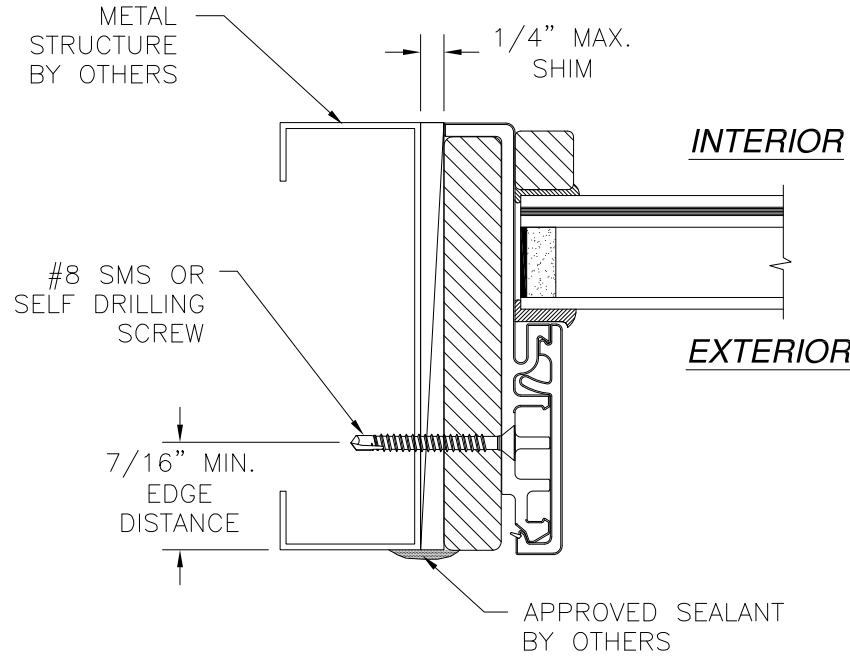


VERTICAL CROSS SECTION
INSWING SIDELITE
METAL STRUCTURE INSTALLATION

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HORIZONTAL CROSS SECTION
INSWING DOOR
METAL STRUCTURE INSTALLATION



HORIZONTAL CROSS SECTION
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METAL STRUCTURE INSTALLATION

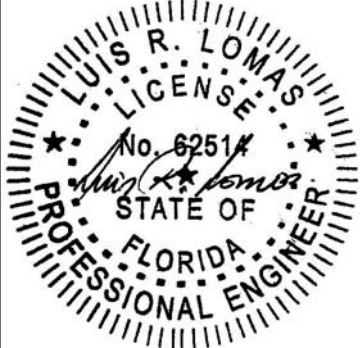
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20GA. STEEL DOOR IS/OS
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INSWING INSTALLATION DETAILS W/FUSION FRAME

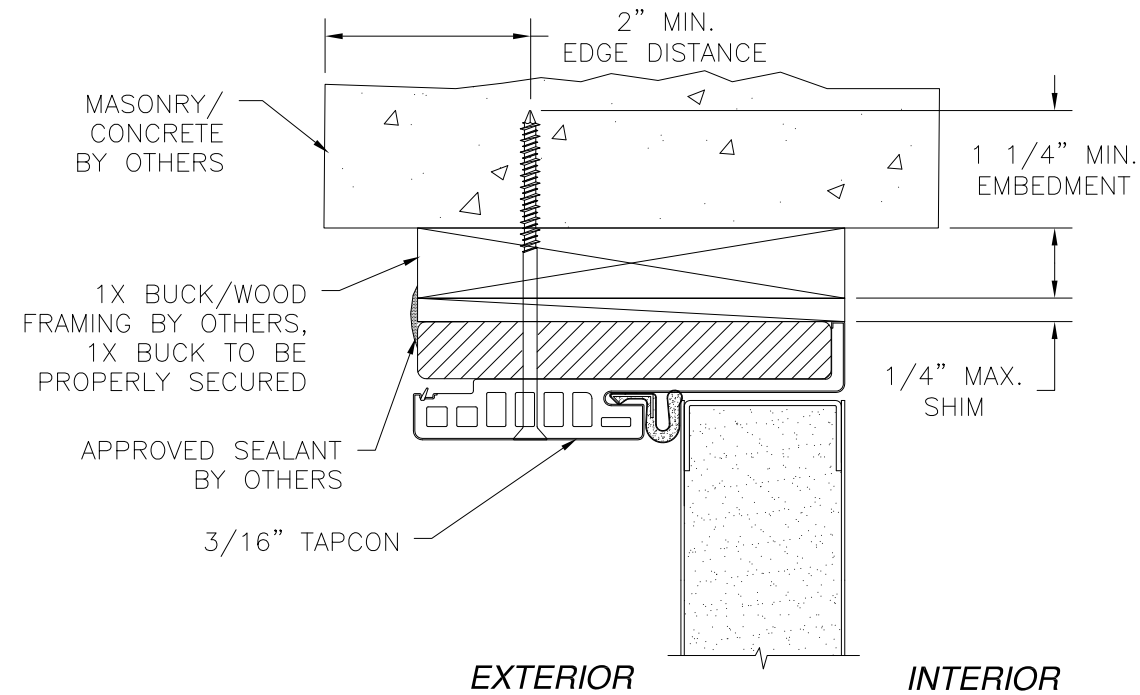
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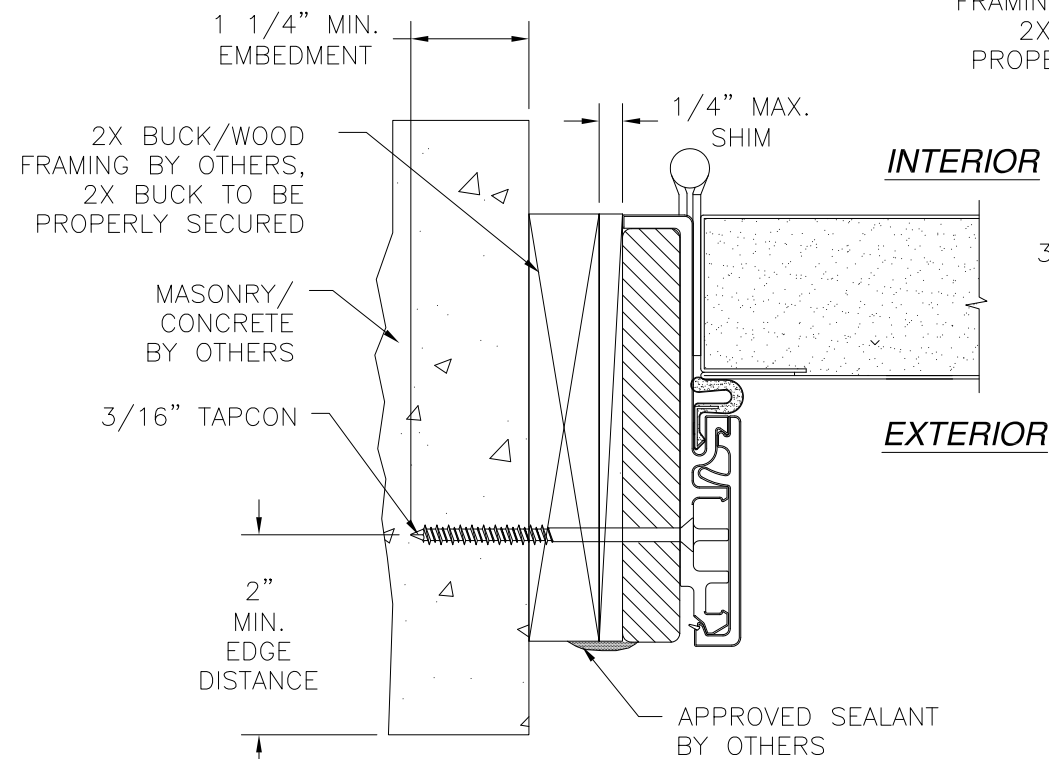
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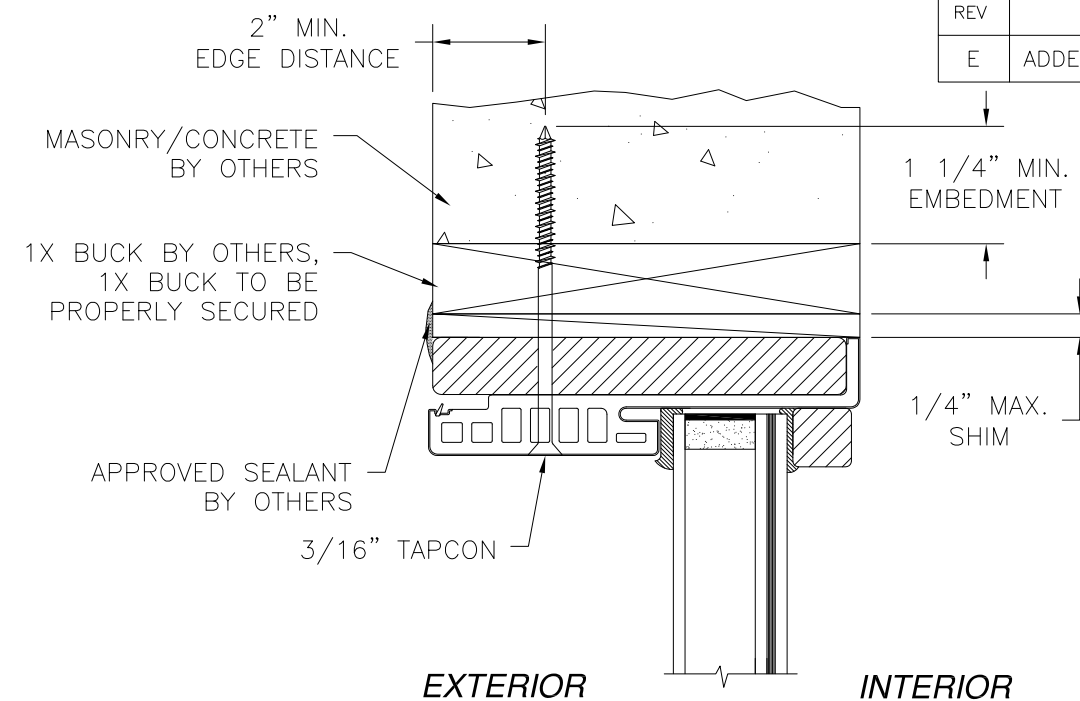
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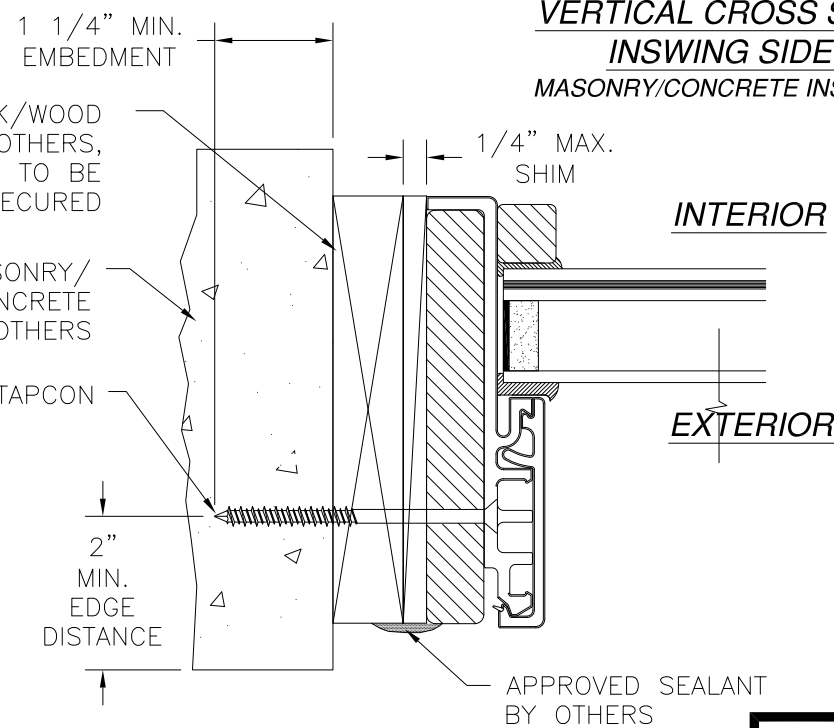
**VERTICAL CROSS SECTION
INSWING DOOR
MASONRY/CONCRETE INSTALLATION**



**HORIZONTAL CROSS SECTION
INSWING DOOR
MASONRY/CONCRETE INSTALLATION**



**VERTICAL CROSS SECTION
INSWING SIDELITE
MASONRY/CONCRETE INSTALLATION**



**HORIZONTAL CROSS SECTION
INSWING SIDELITE
METAL STRUCTURE INSTALLATION**

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.

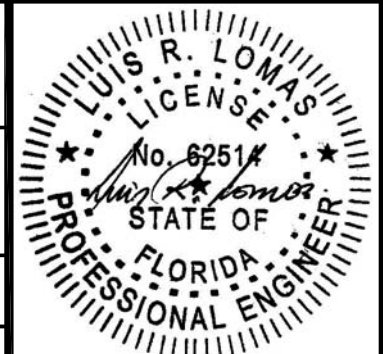
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. STEEL DOOR IS/OS
W/ AND W/OUT SIDELITES
INSWING INSTALLATION DETAILS W/FUSION FRAME

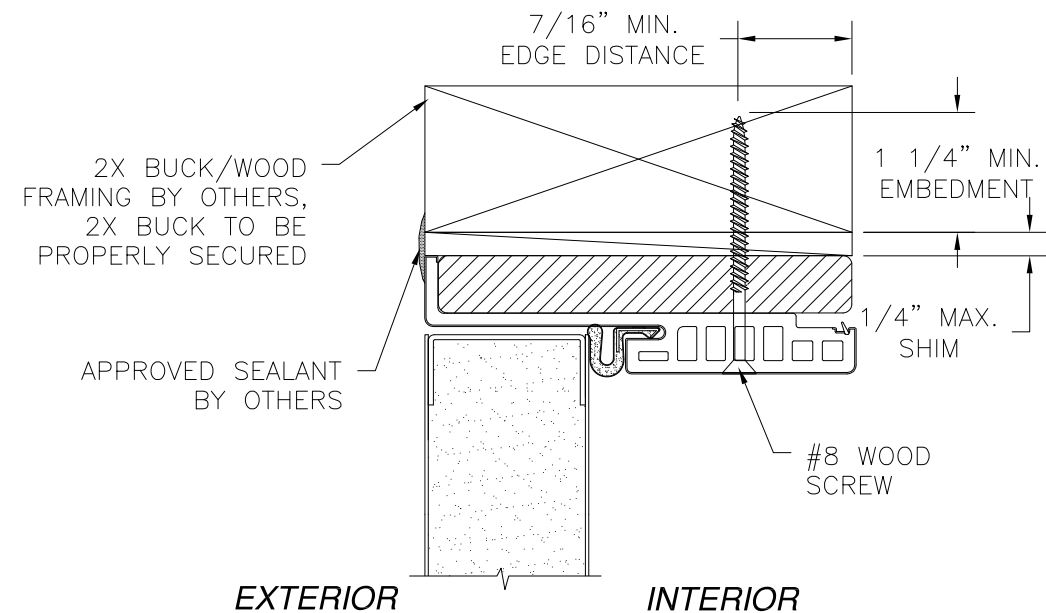
DRAWN: TJH	DWG NO. 08-00950	REV E
SCALE NTS	DATE 02/15/10	SHEET 13 OF 19

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

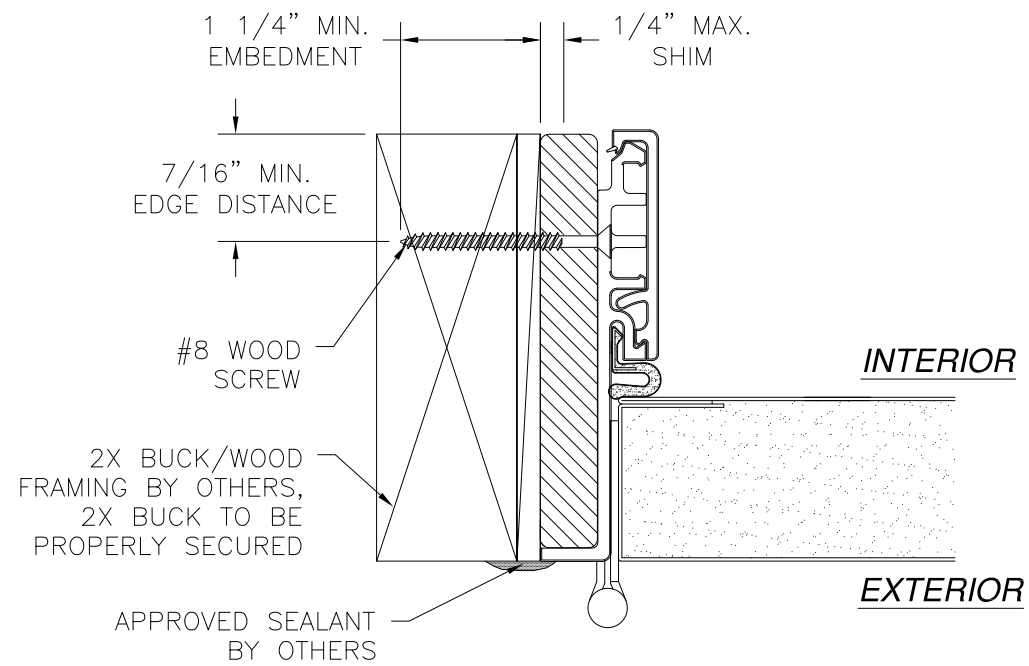
SIGNED: 01/08/2020



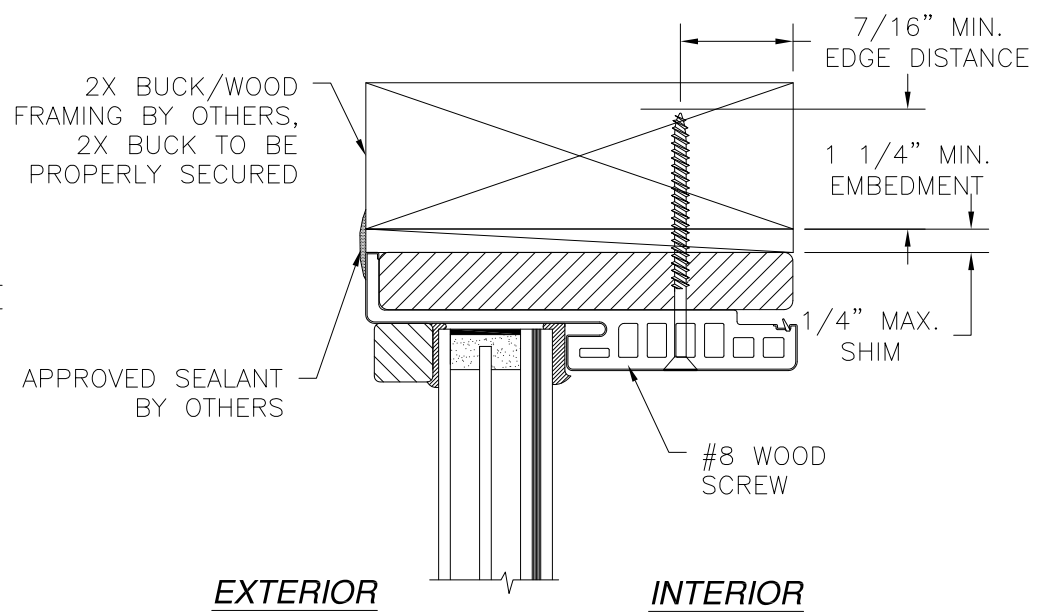
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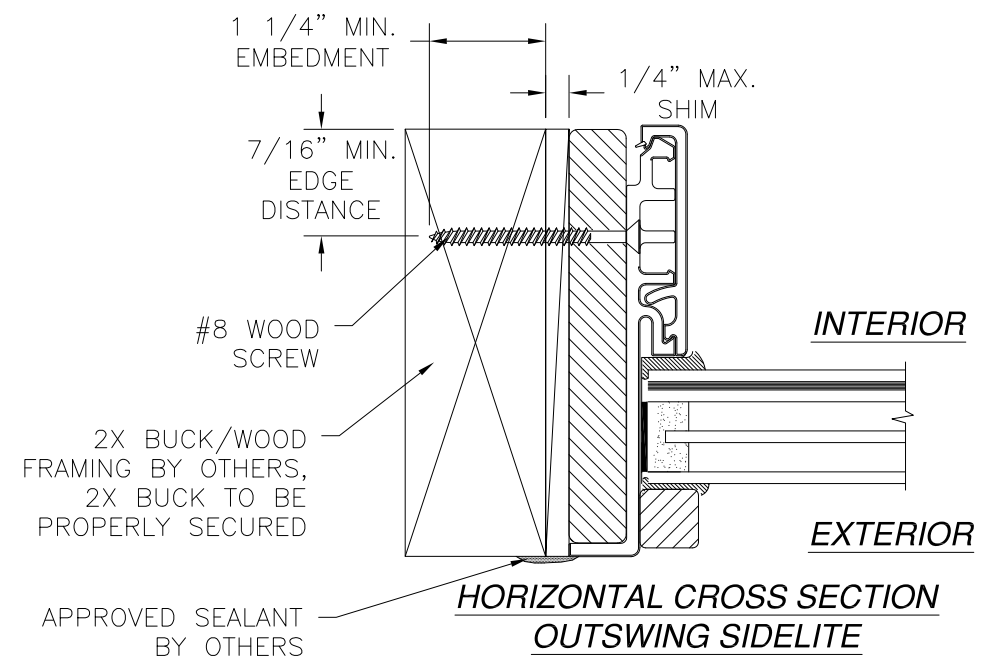
**VERTICAL CROSS SECTION
OUTSWING DOOR**
2X BUCK/WOOD FRAMING INSTALLATION



**HORIZONTAL CROSS SECTION
OUTSWING DOOR**
2X BUCK/WOOD FRAMING INSTALLATION



**VERTICAL CROSS SECTION
OUTSWING SIDELITE**
2X BUCK/WOOD FRAMING INSTALLATION



**HORIZONTAL CROSS SECTION
OUTSWING SIDELITE**
2X BUCK/WOOD FRAMING INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	ADDED SILLS	01/06/2020	R.L.

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

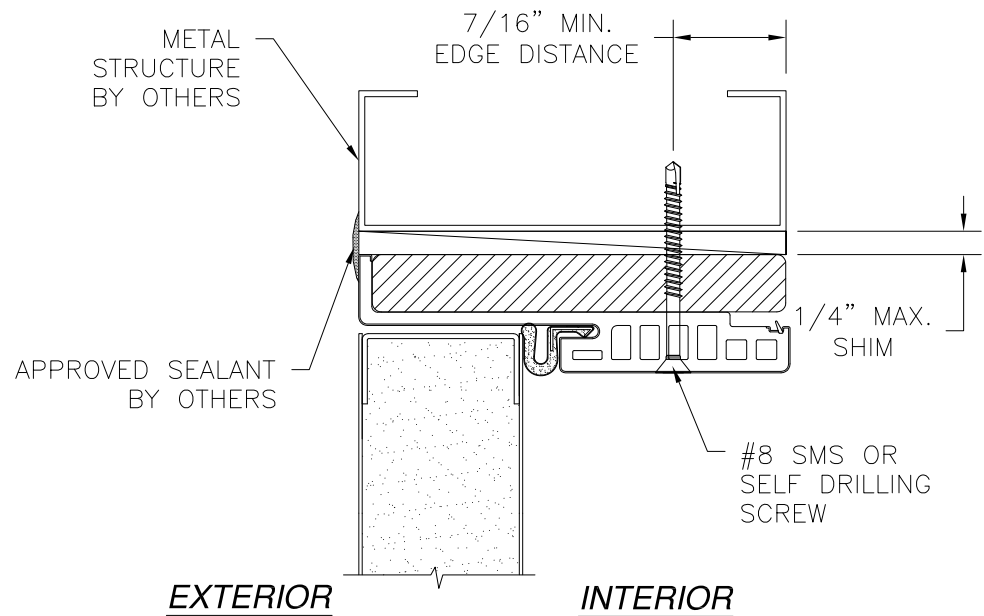
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W/ AND W/OUT SIDELITES
OUTSWING INSTALLATION DETAILS W/FUSION FRAME

DRAWN: TJH	DWG NO. 08-00950	REV E
SCALE NTS	DATE 02/15/10	SHEET 14 OF 19

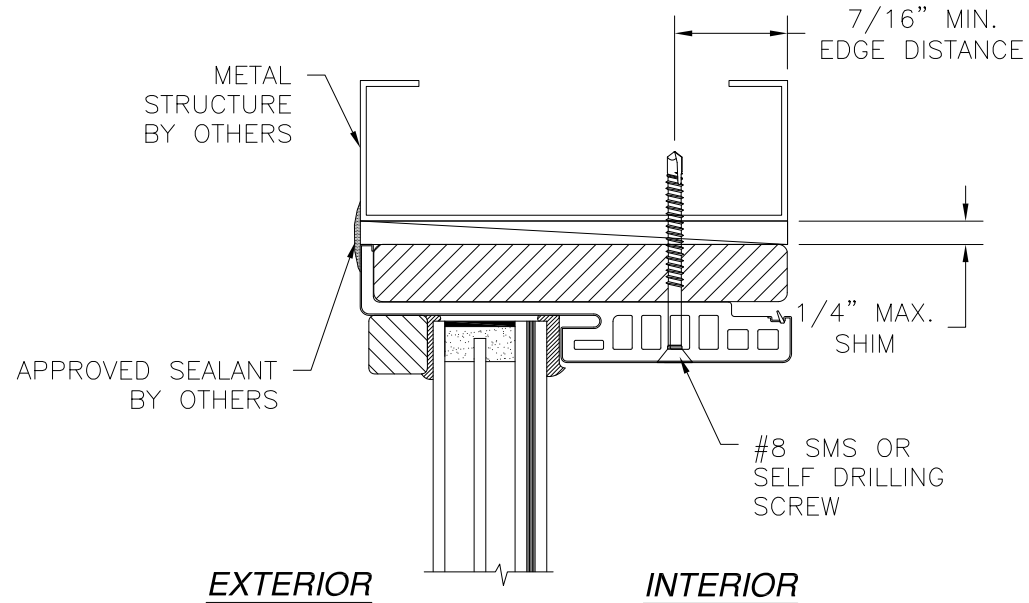
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 01/08/2020

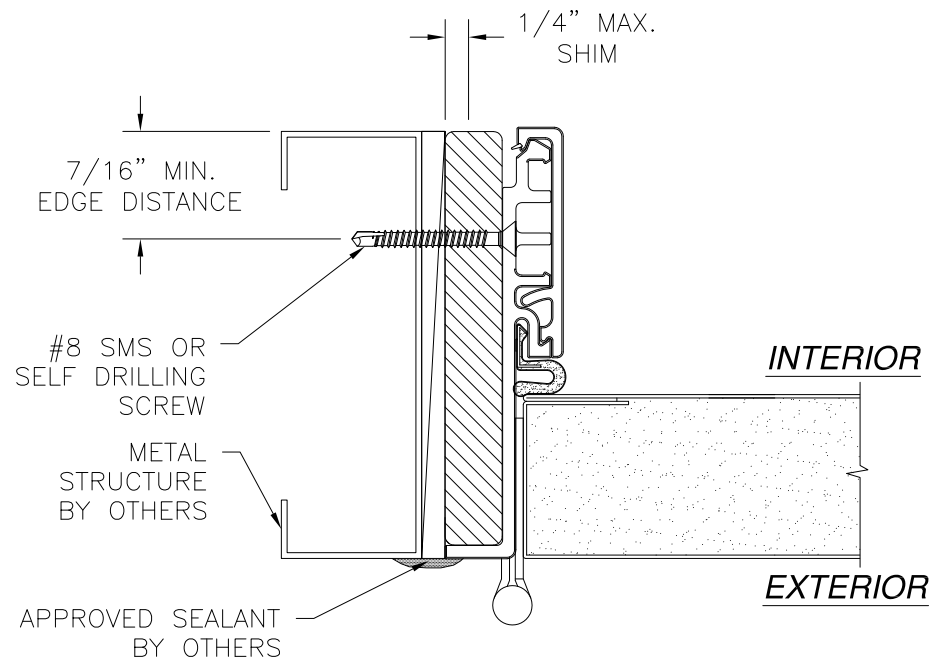
Luis R. Lomas P.E.
FL No.: 62514



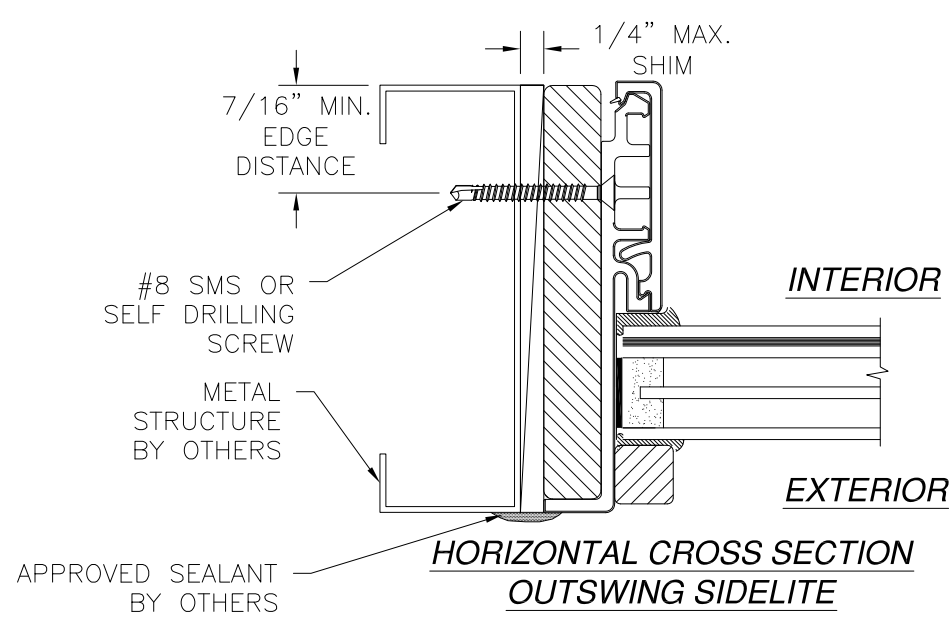
**VERTICAL CROSS SECTION
OUTSWING DOOR**
METAL STRUCTURE INSTALLATION



**VERTICAL CROSS SECTION
OUTSWING SIDELITE**
METAL STRUCTURE INSTALLATION



**HORIZONTAL CROSS SECTION
OUTSWING DOOR**
METAL STRUCTURE INSTALLATION



**HORIZONTAL CROSS SECTION
OUTSWING SIDELITE**
METAL STRUCTURE INSTALLATION

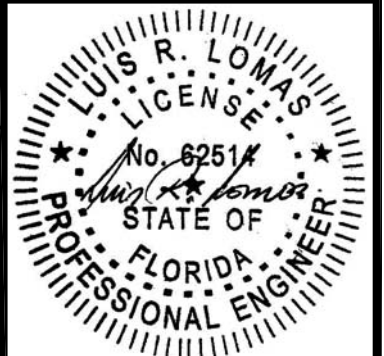
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REV	DESCRIPTION	DATE	APPROVED
E	ADDED SILLS	01/06/2020	R.L.

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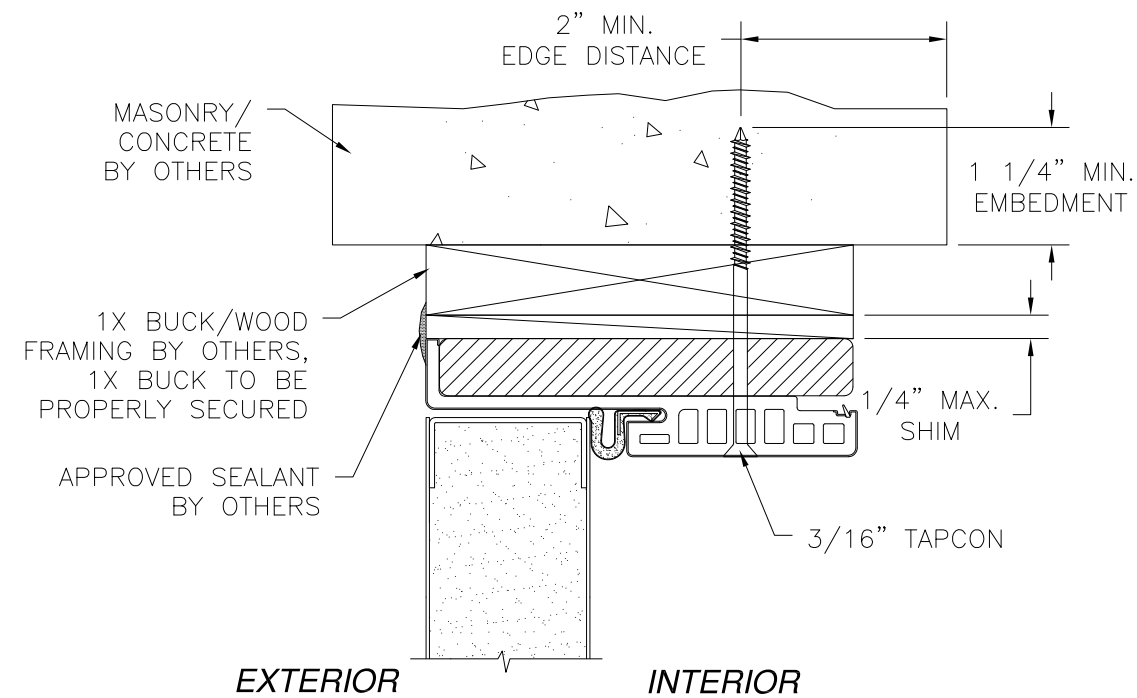
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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SIGNED: 01/08/2020

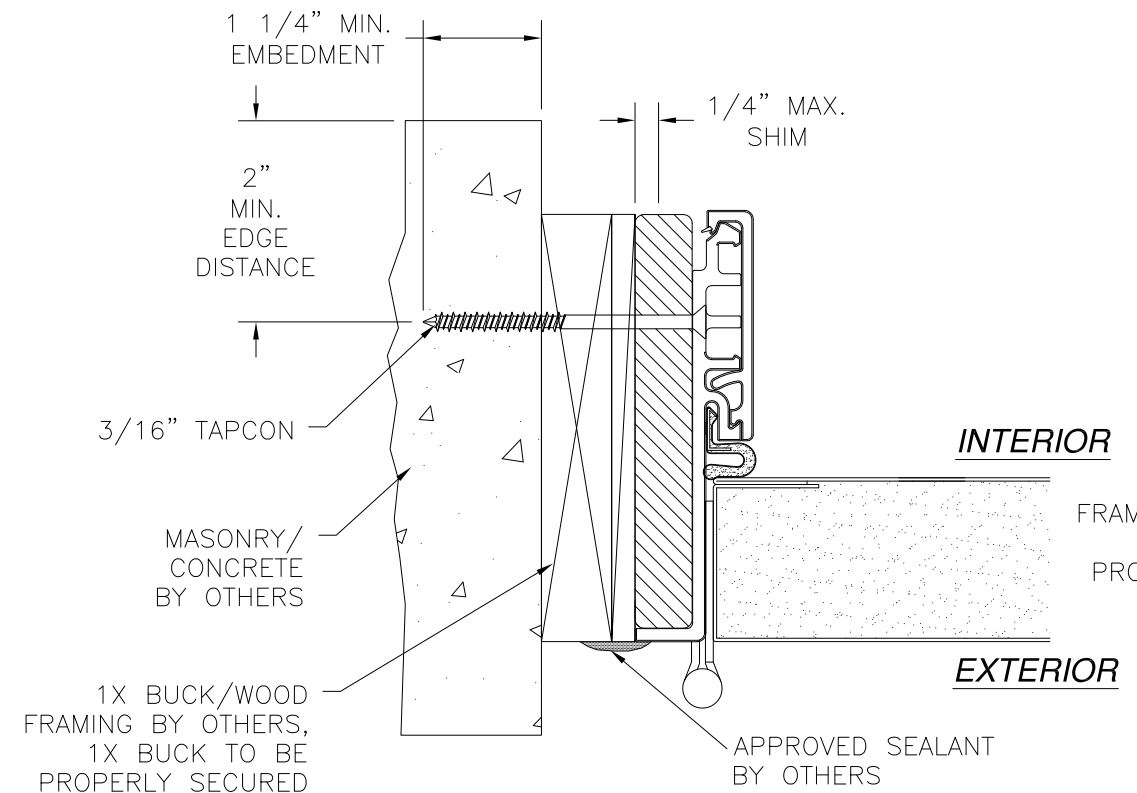
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
20GA. STEEL DOOR IS/OS W/ AND W/OUT SIDELITES OUTSWING INSTALLATION DETAILS W/FUSION FRAME		
DRAWN: TJH	DWG NO. 08-00950	REV E
SCALE NTS	DATE 02/15/10	SHEET 15 OF 19
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



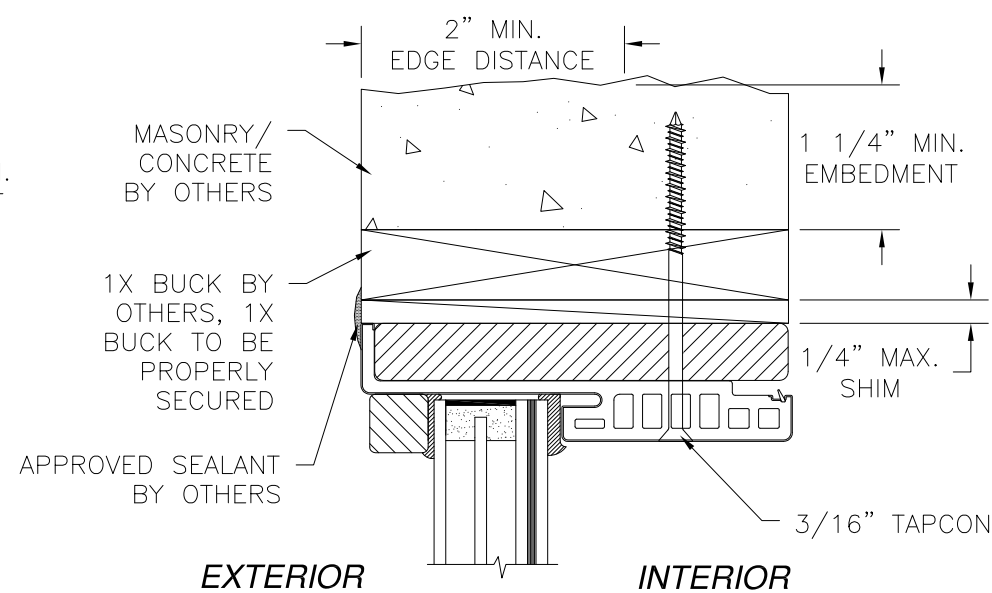
Luis R. Lomas P.E.
FL No.: 62514



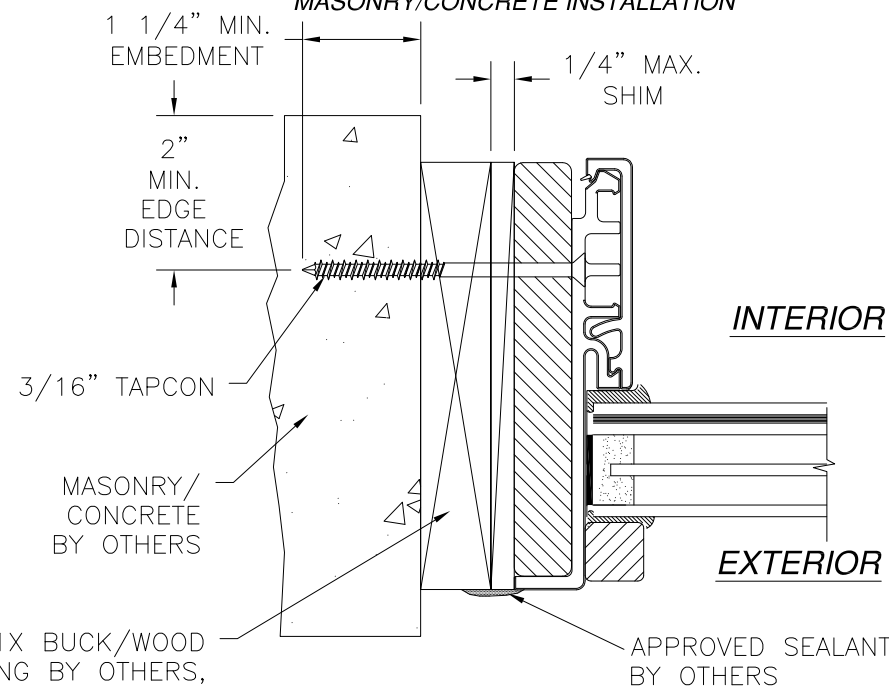
**VERTICAL CROSS SECTION
OUTSWING DOOR**
MASONRY/CONCRETE INSTALLATION



**HORIZONTAL CROSS SECTION
OUTSWING DOOR**
MASONRY/CONCRETE INSTALLATION



**VERTICAL CROSS SECTION
OUTSWING SIDELITE**
MASONRY/CONCRETE INSTALLATION



**HORIZONTAL CROSS SECTION
OUTSWING SIDELITE**
MASONRY/CONCRETE INSTALLATION

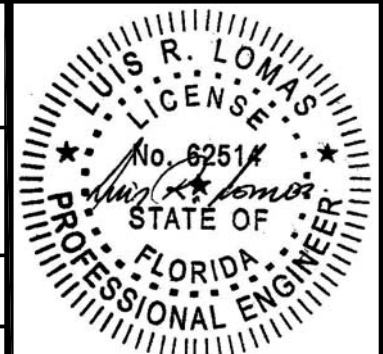
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REV	DESCRIPTION	DATE	APPROVED
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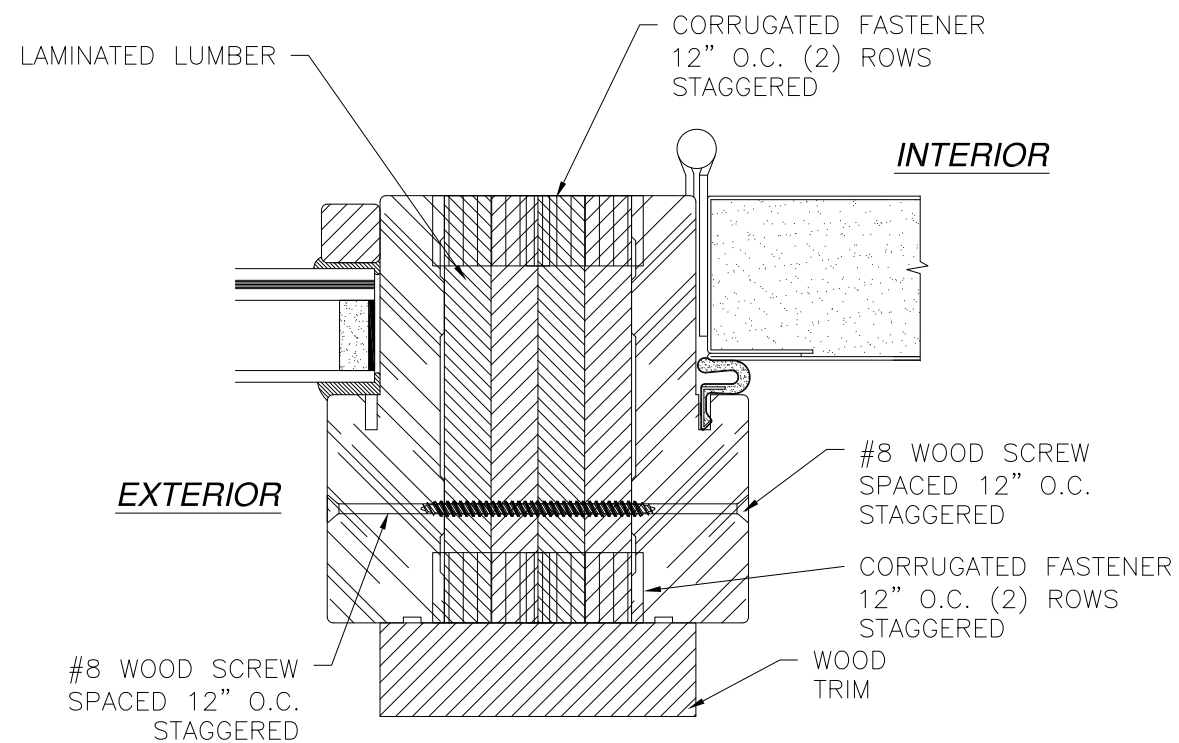
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SIGNED: 01/08/2020

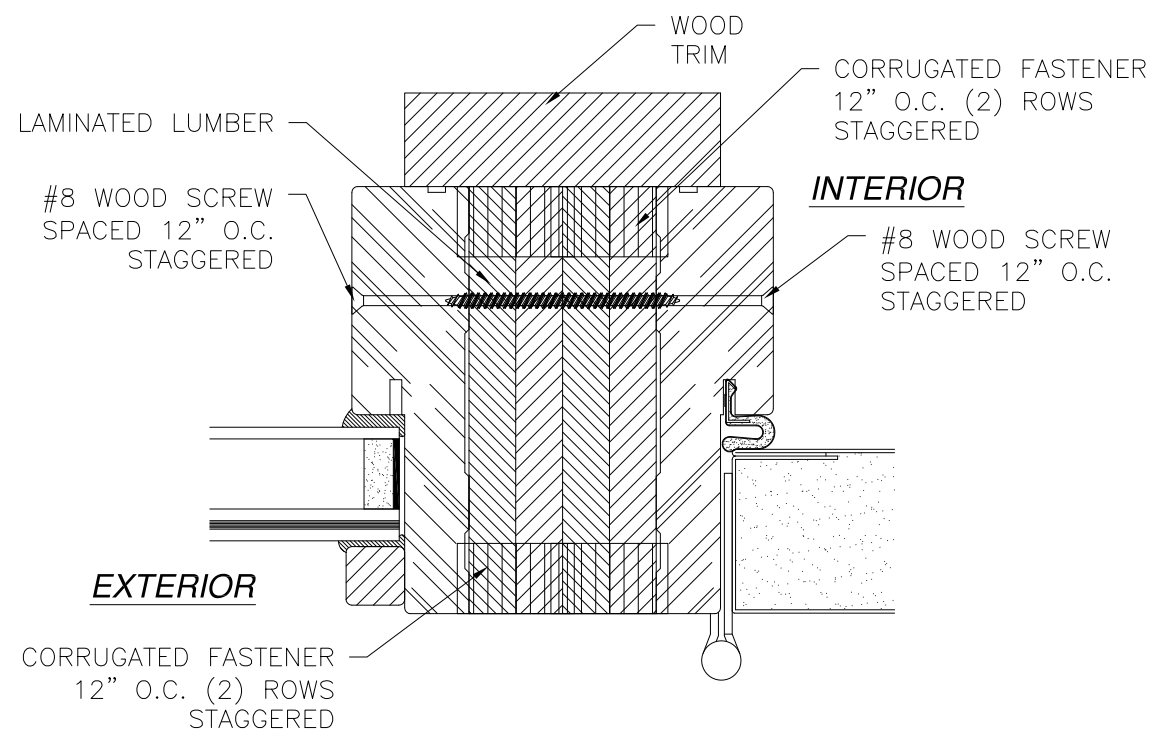
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
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DRAWN: TJH	DWG NO. 08-00950	REV E
SCALE NTS	DATE 02/15/10	SHEET 16 OF 19
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



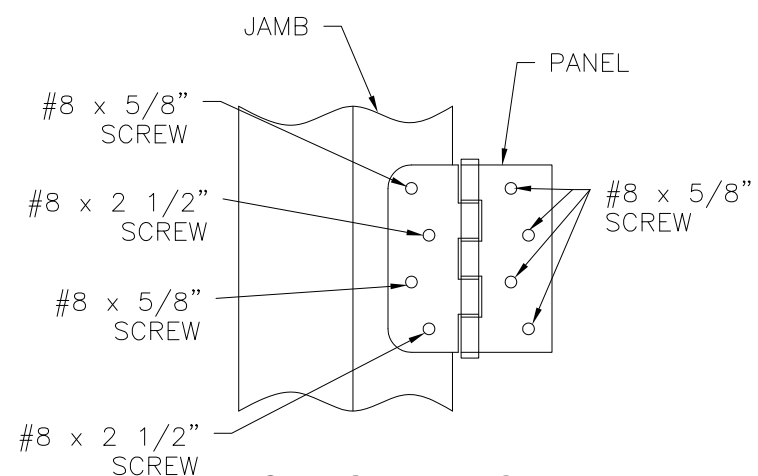
Luis R. Lomas P.E.
FL No.: 62514



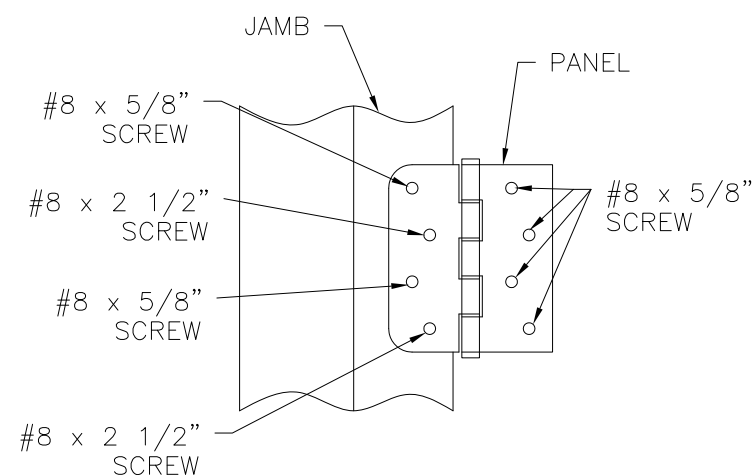
INSWING MULLION DETAIL A
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



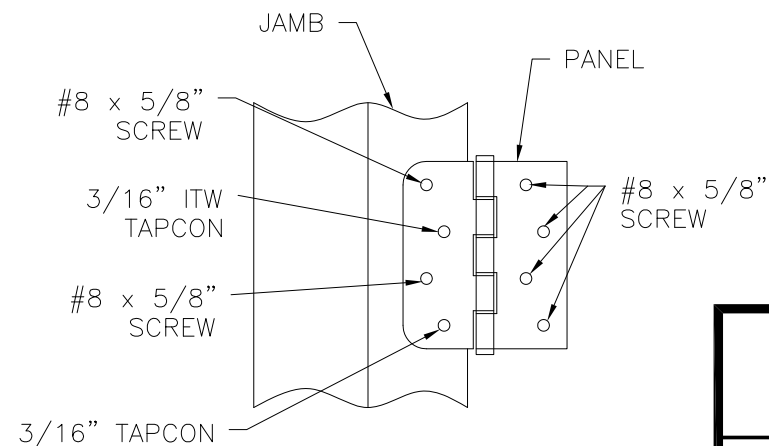
OUTSWING MULLION DETAIL A
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



HINGE INSTALLATION DETAIL
2X BUCK/WOOD FRAMING INSTALLATION

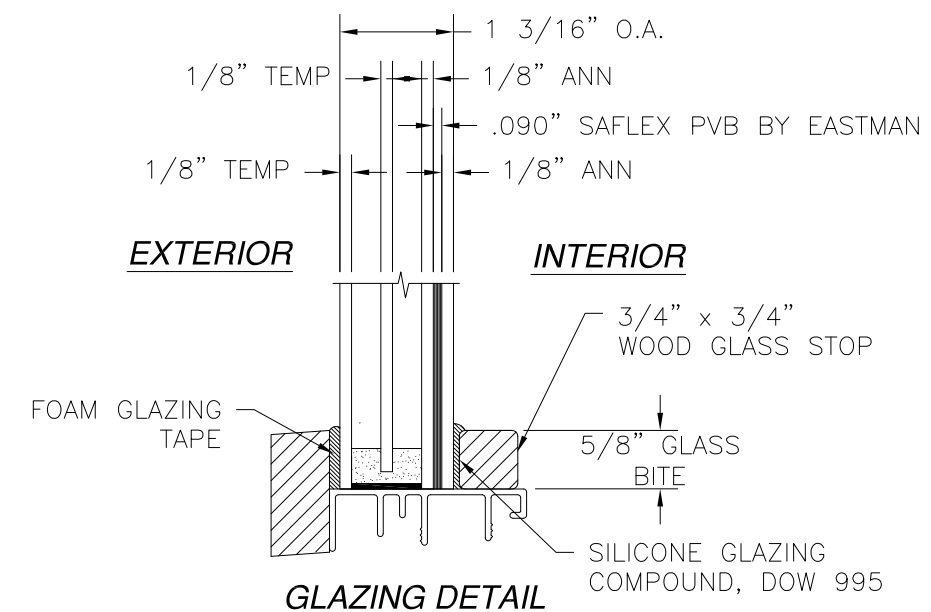


HINGE INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

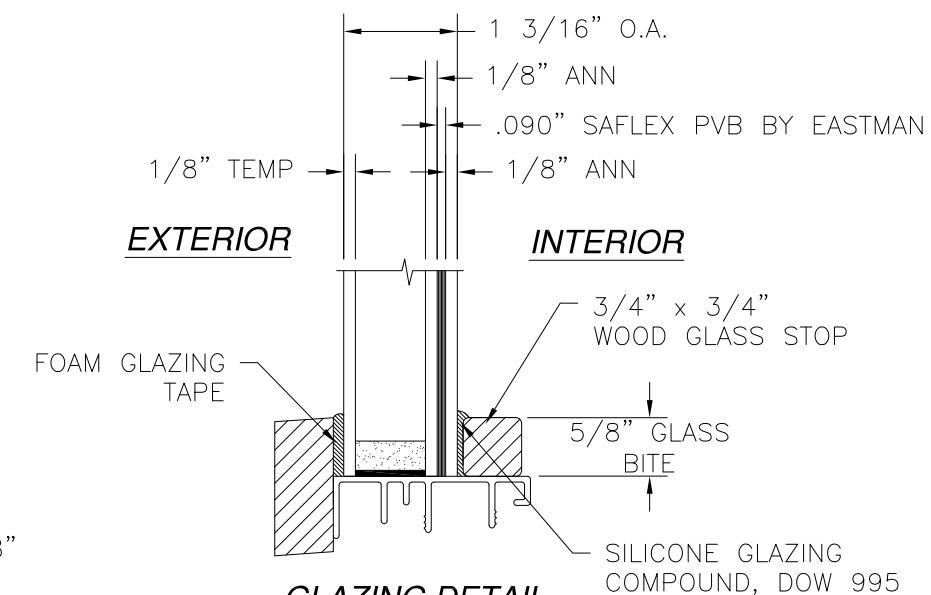


HINGE INSTALLATION DETAIL
MASONRY/CONCRETE INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	ADDED SILLS	01/06/2020	R.L.



GLAZING DETAIL



GLAZING DETAIL

SIGNED: 01/08/2020

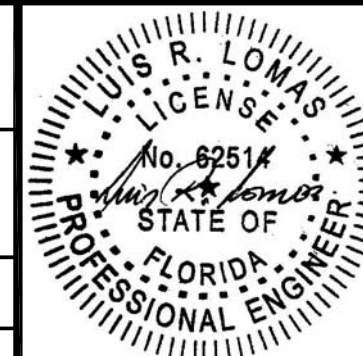
PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. STEEL DOOR IS/OS
W/ AND W/OUT SIDELITES
GLAZING, MULLION AND HINGES DETAILS

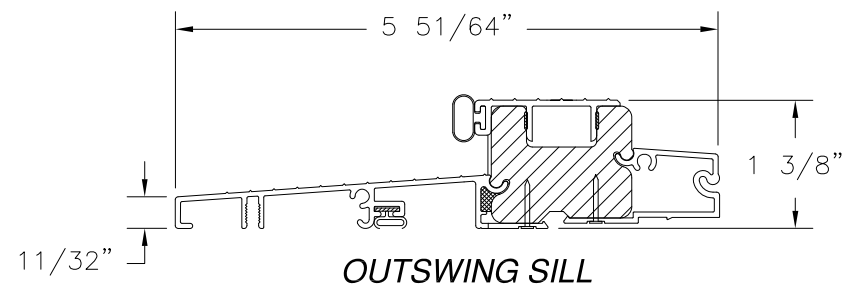
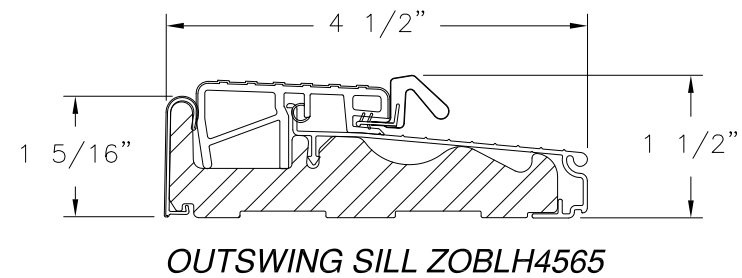
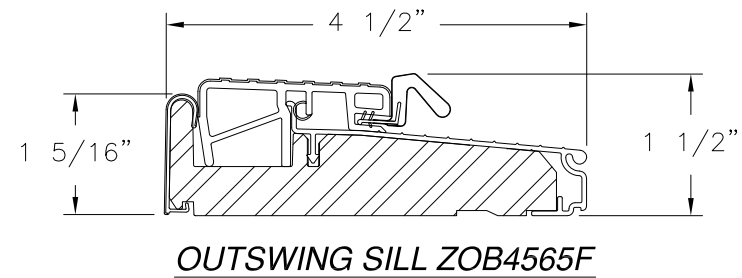
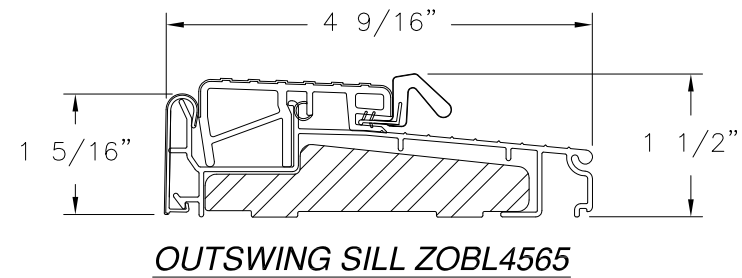
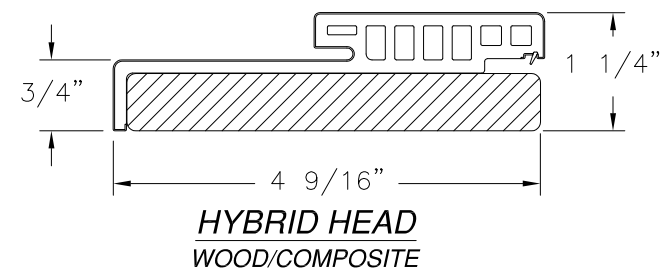
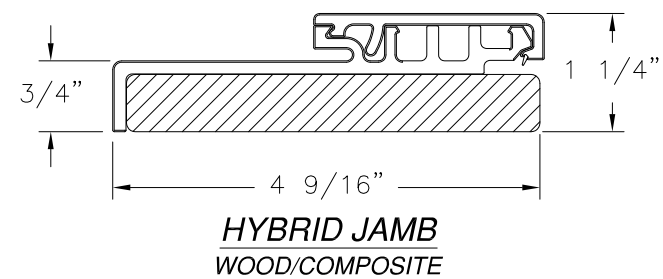
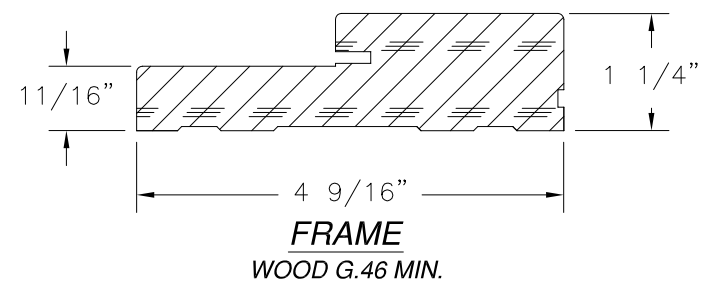
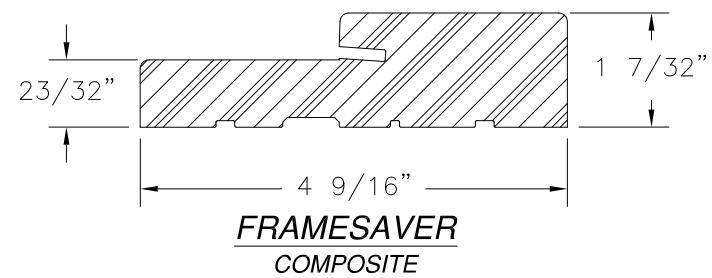
DRAWN: TJH	DWG NO. 08-00950	REV E
SCALE NTS	DATE 02/15/10	SHEET 17 OF 19

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com



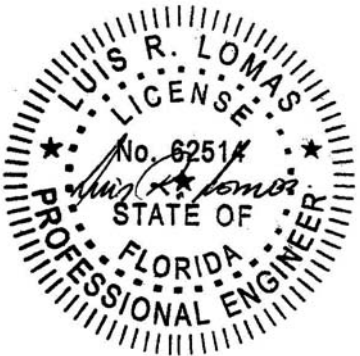
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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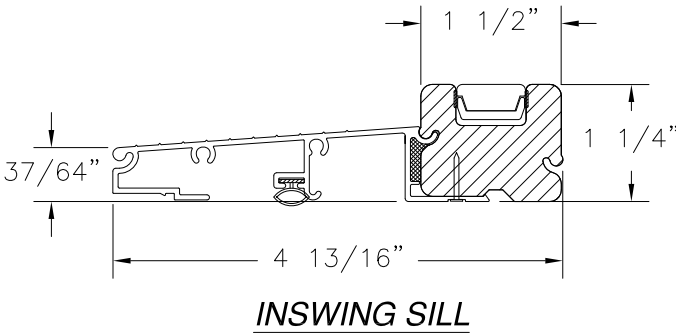
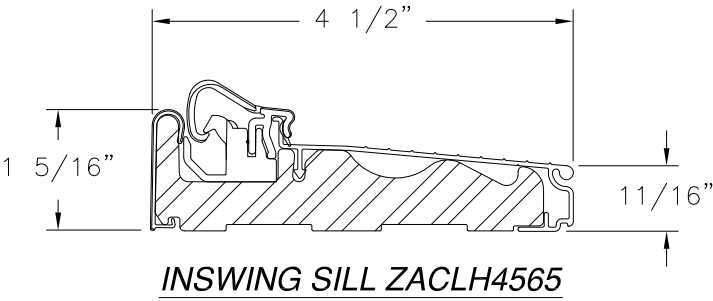
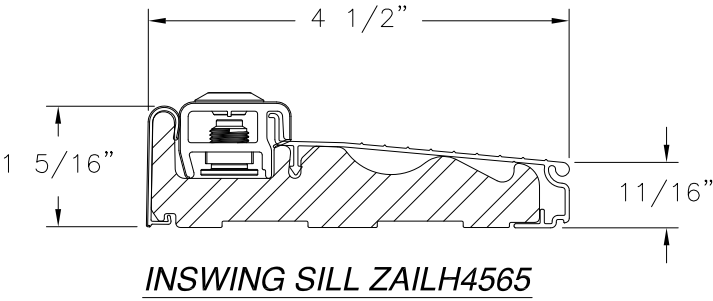
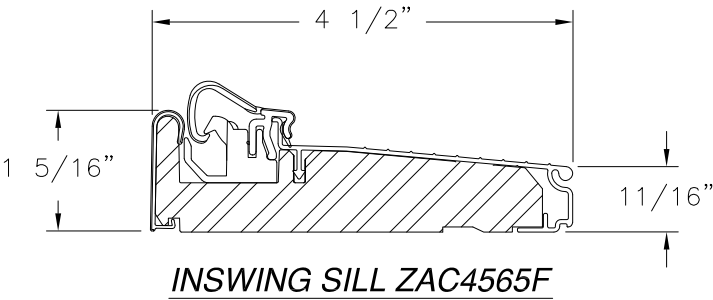
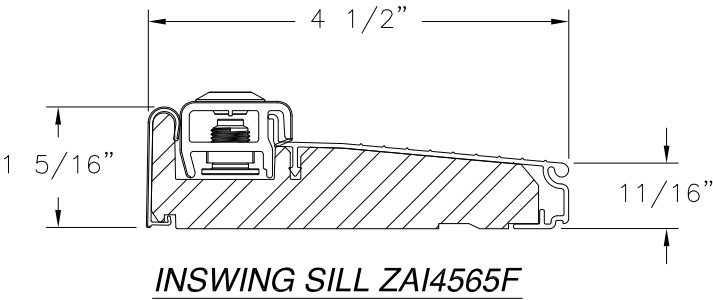
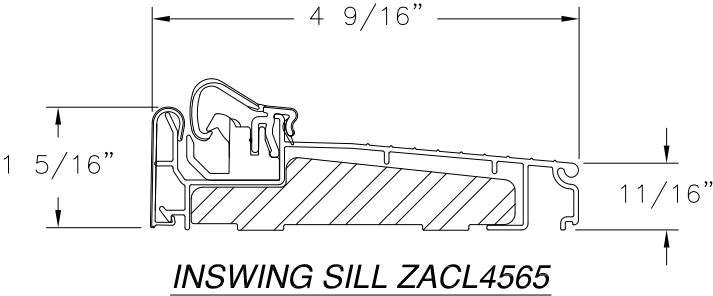
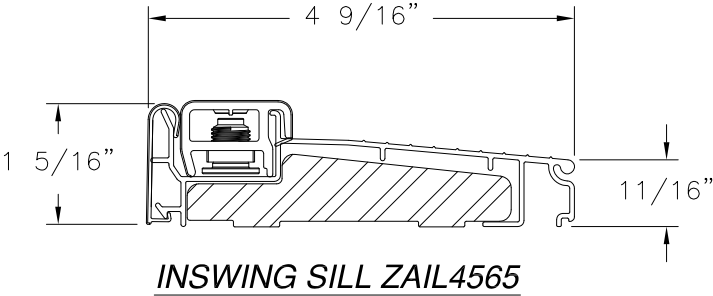
SIGNED: 01/08/2020

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
20GA. STEEL DOOR IS/OS W/ AND W/OUT SIDELITES COMPONENTS		
DRAWN: TJH	DWG NO. 08-00950	REV E
SCALE NTS	DATE 02/15/10	SHEET 18 OF 19
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



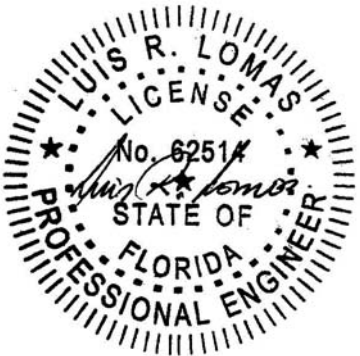
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