

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	ADDED SILLS	12/31/19	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. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. 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.

14. 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.
15. 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.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. 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
18. DOOR PANEL MATERIAL: 20GA. STEEL SKIN WITH .054” STEEL TOP AND BOTTOM RAILS.
19. 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 3 FOR APPROVED HARDWARE.

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PROVIA, LLC.

2150 STATE ROUTE 39 WEST

SUGARCREEK, OH 44681

20GA. STEEL ENTRY DOOR

IS/OS

NOTES

DRAWN: TJH

DWG NO. 08–00905

REV D

SCALE NTS

DATE 12/16/09

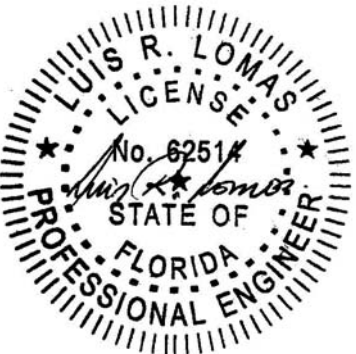
SHEET 1 OF 12

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1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

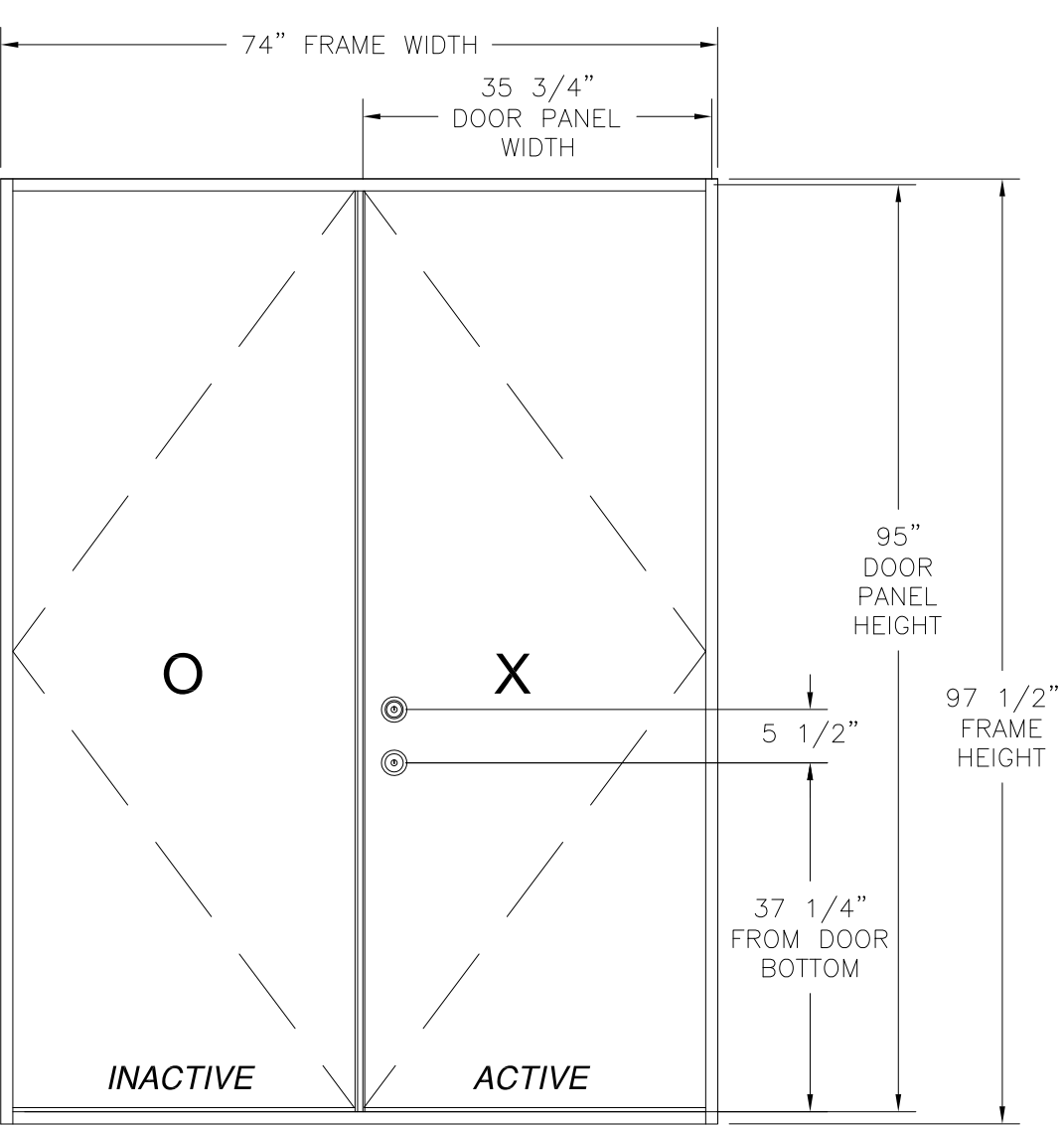
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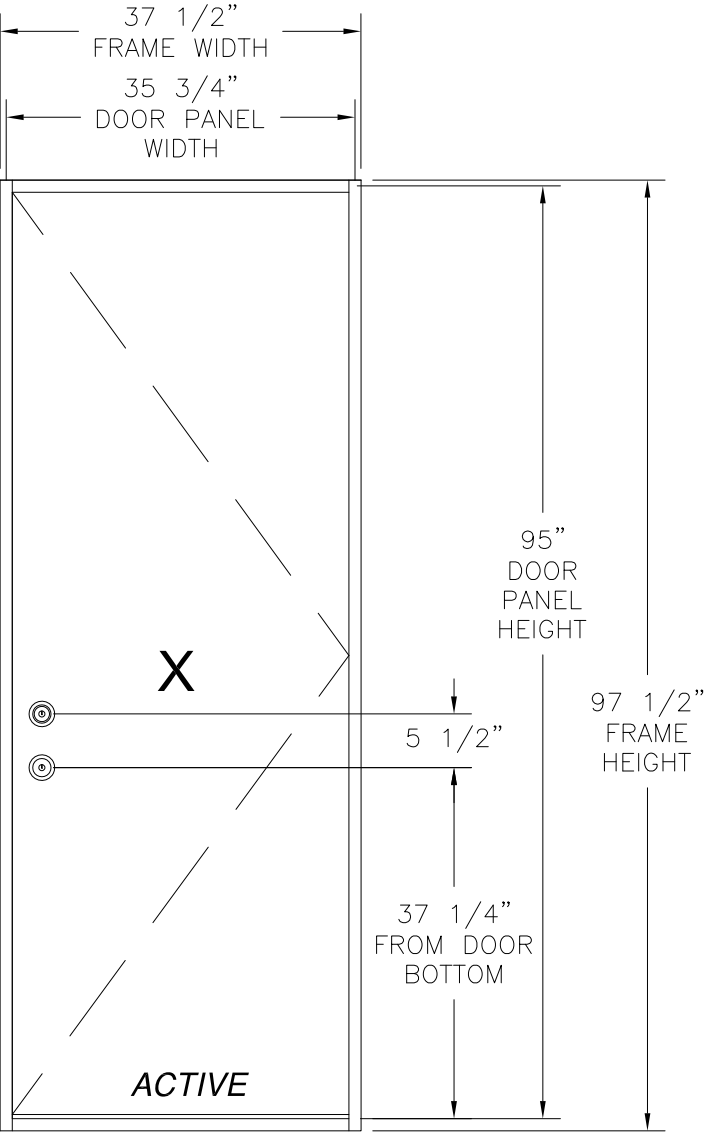
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
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<i>HARDWARE SCHEDULE</i>
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.



20GA. STEEL
INSWING DOUBLE DOOR
EXTERIOR VIEW



20GA. STEEL
INSWING SINGLE DOOR
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
$\pm 51.0\text{PSF}$	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	

35 3/4" X 95" PANEL SHOWN, OTHER SIZES APPROVED AS LONG AS
INDIVIDUAL PANEL AREA DOES NOT EXCEED 23.58 FT²

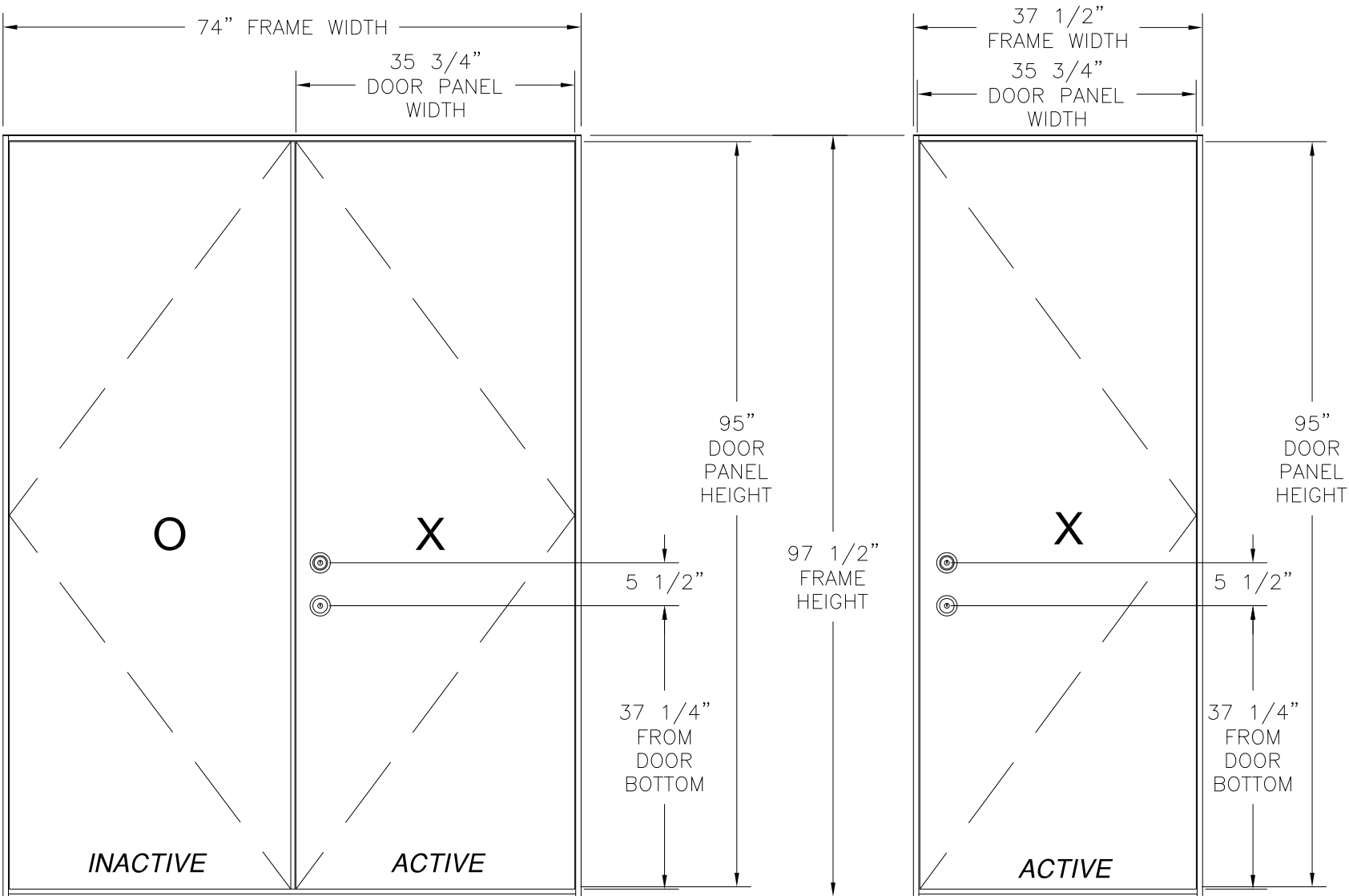
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
20GA. STEEL ENTRY DOOR IS/OS INSWING ELEVATIONS		
DRAWN: TJH	DWG NO. 08-00905	REV D
SCALE NTS	DATE 12/16/09	SHEET 2 OF 12
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20GA. STEEL
OUTSWING DOUBLE DOOR
EXTERIOR VIEW

20GA. STEEL
OUTSWING SINGLE DOOR
EXTERIOR VIEW

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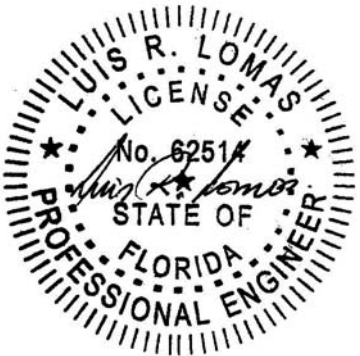
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SUGARCREEK, OH 44681

20GA. STEEL ENTRY DOOR
IS/OS
OUTSWING ELEVATIONS

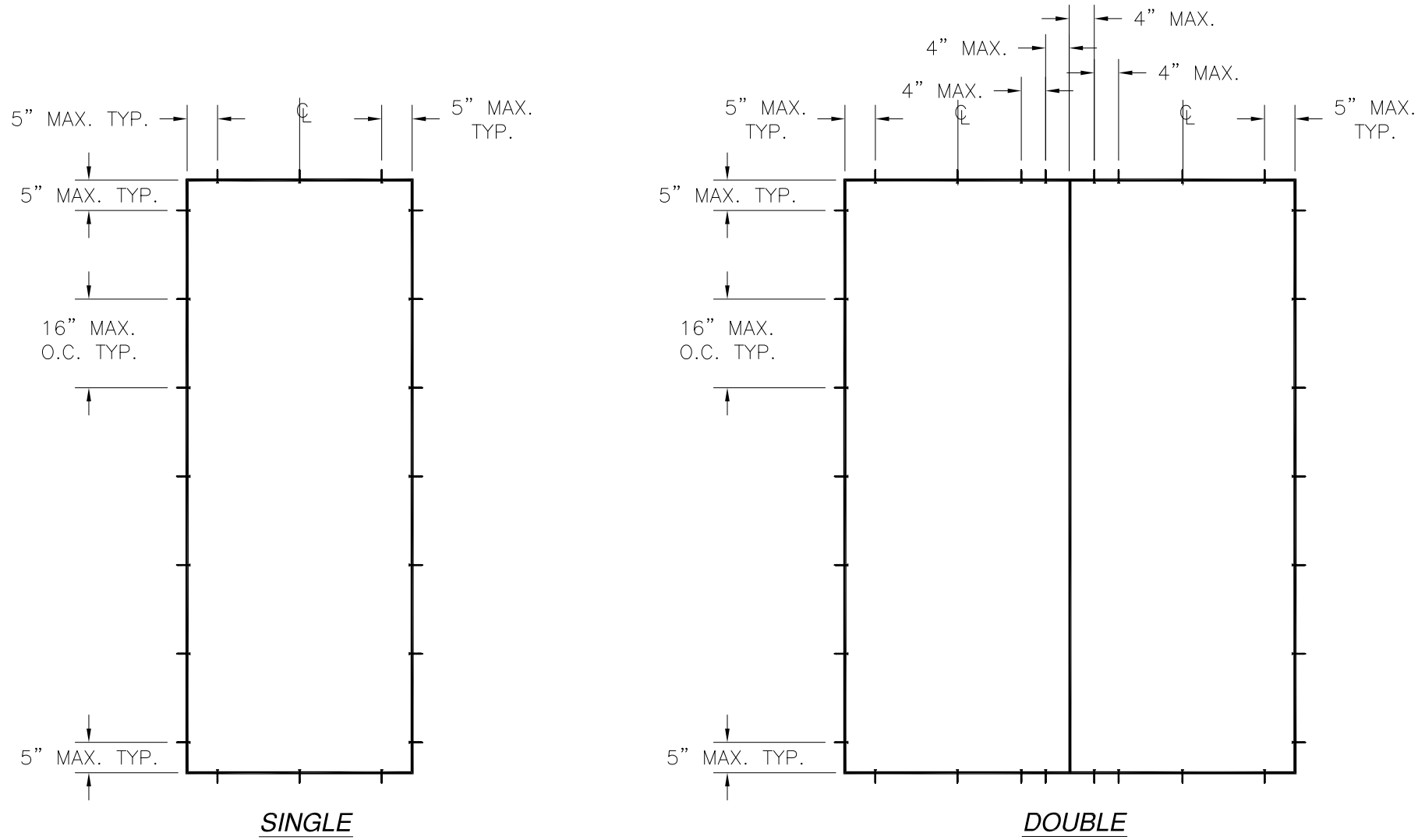
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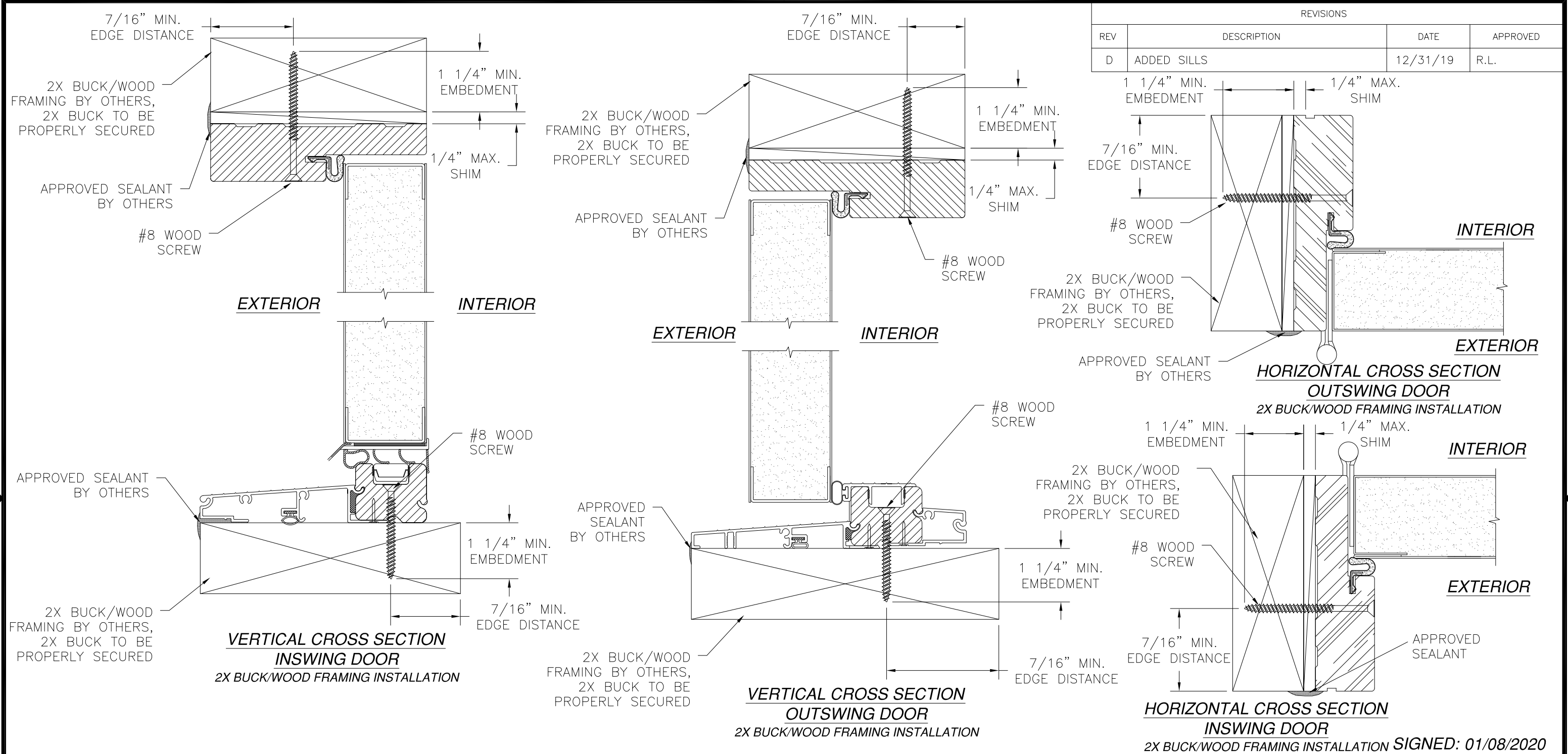
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L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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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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2150 STATE ROUTE 39 WEST
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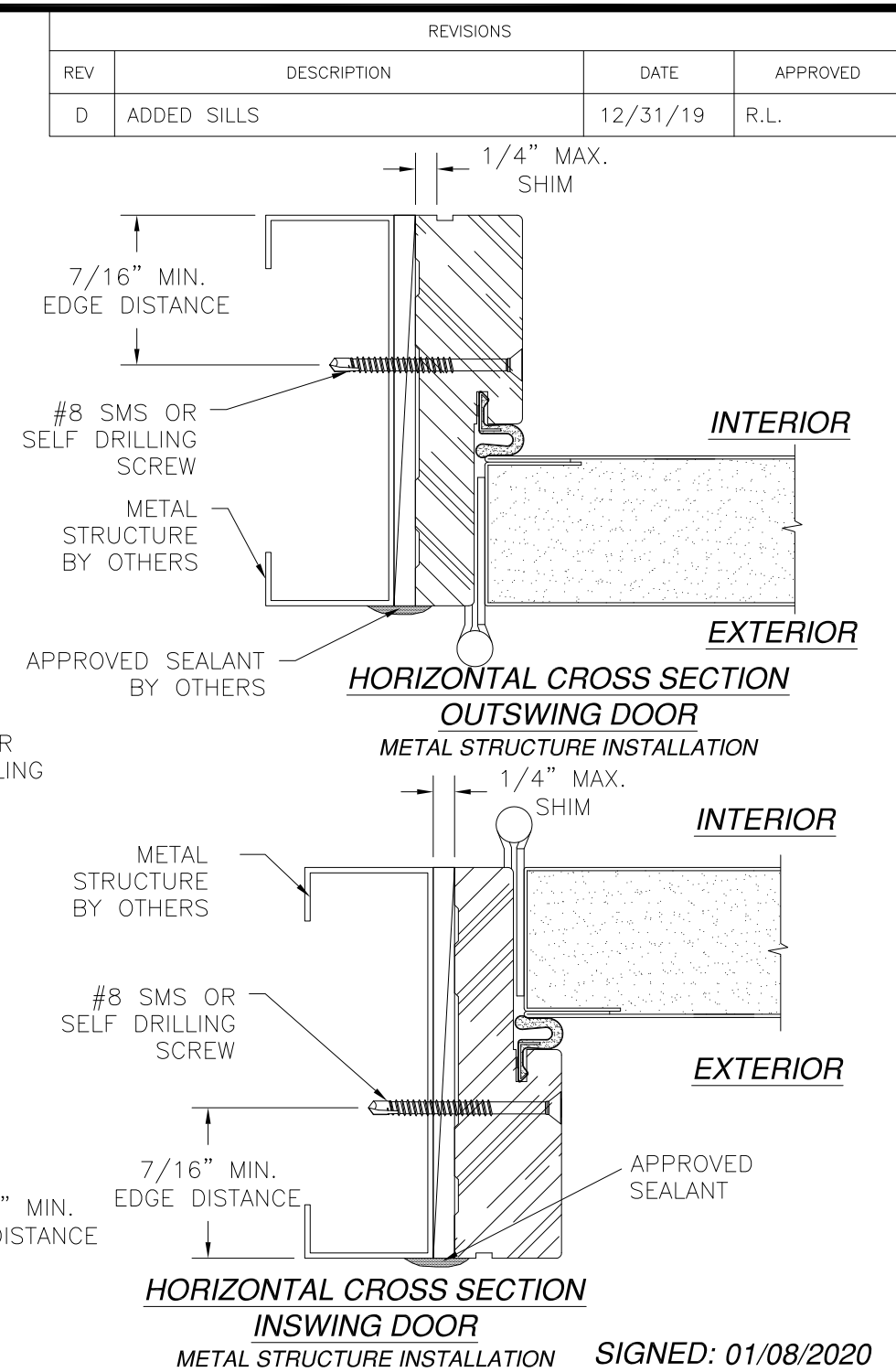
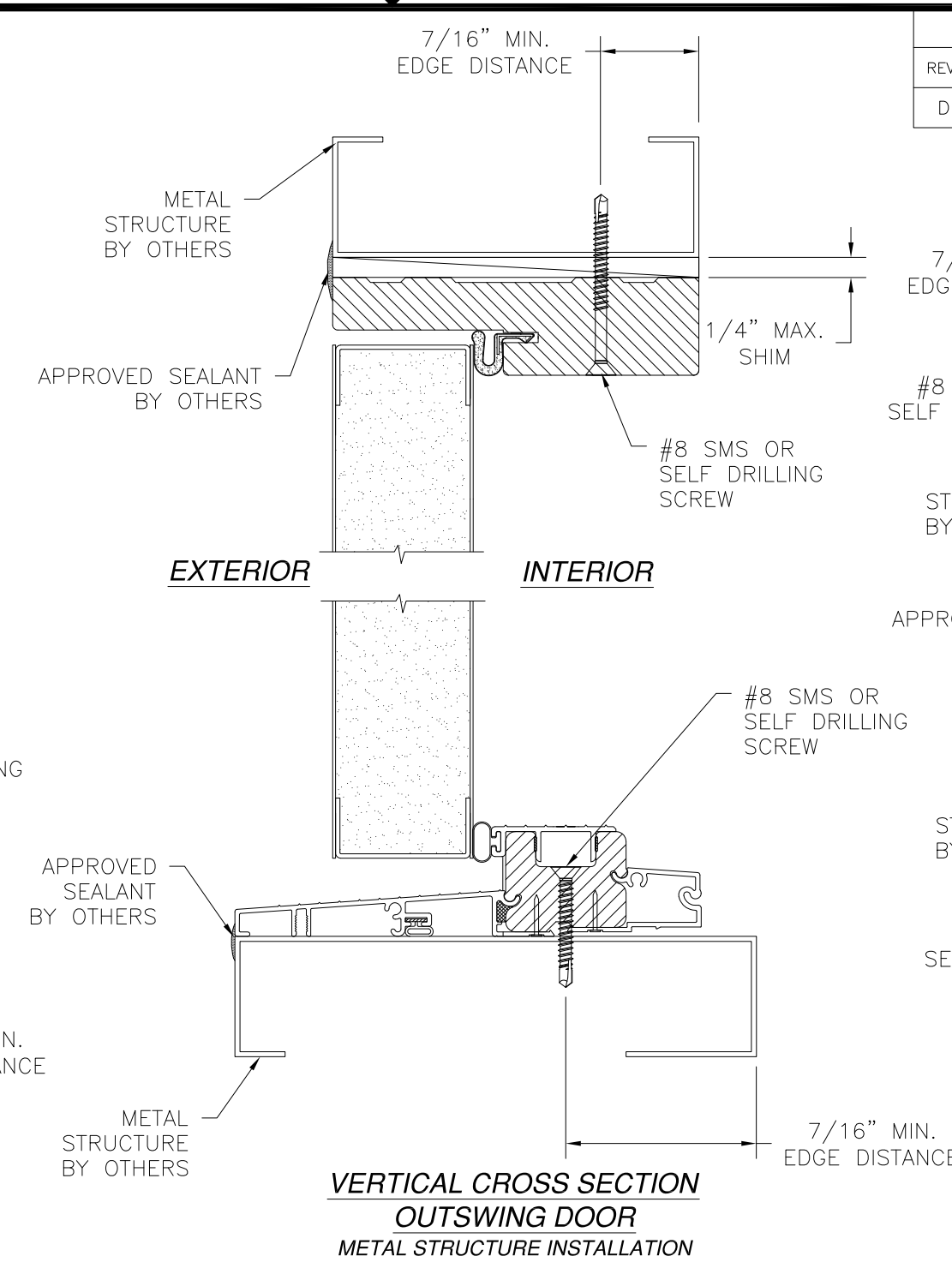
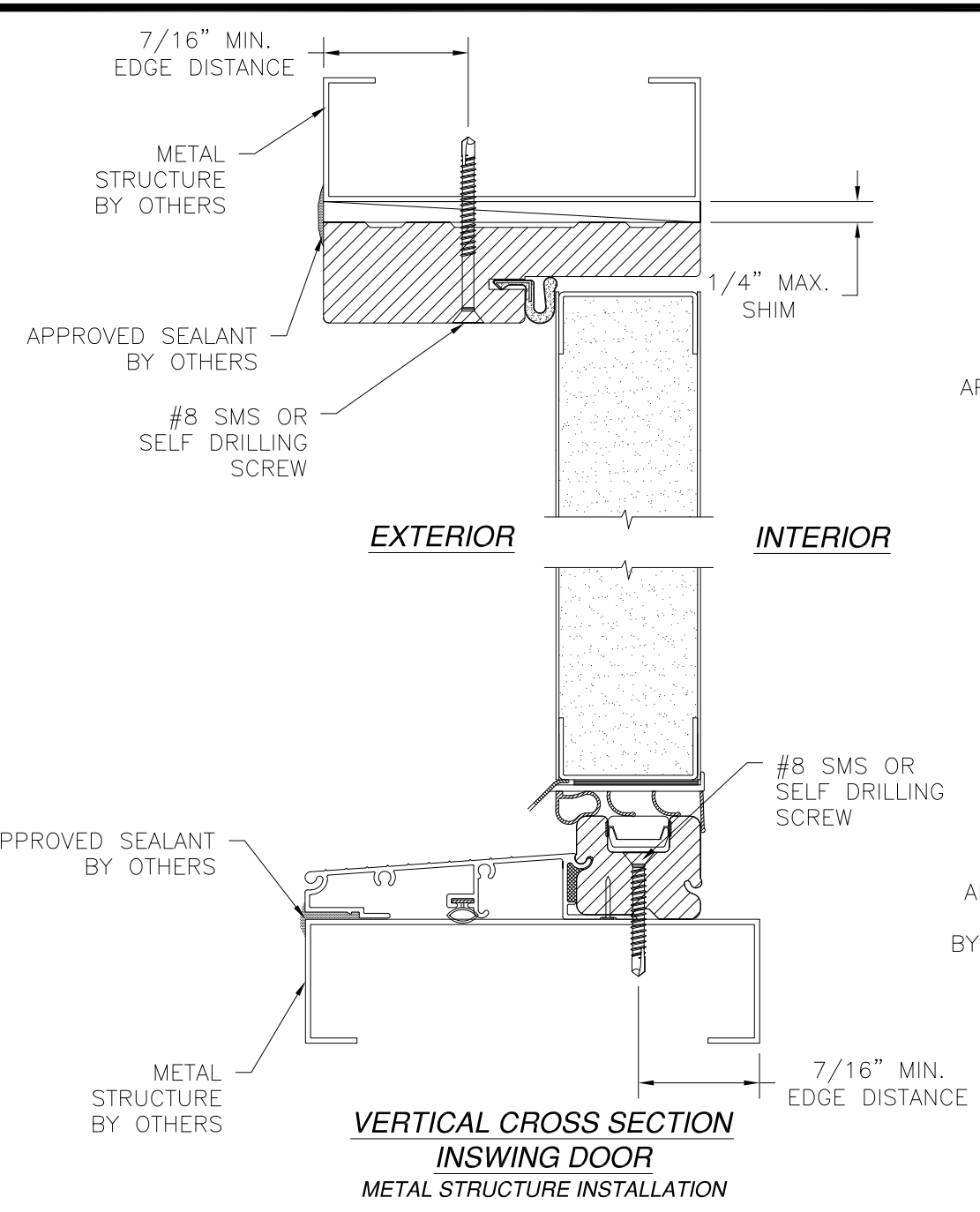
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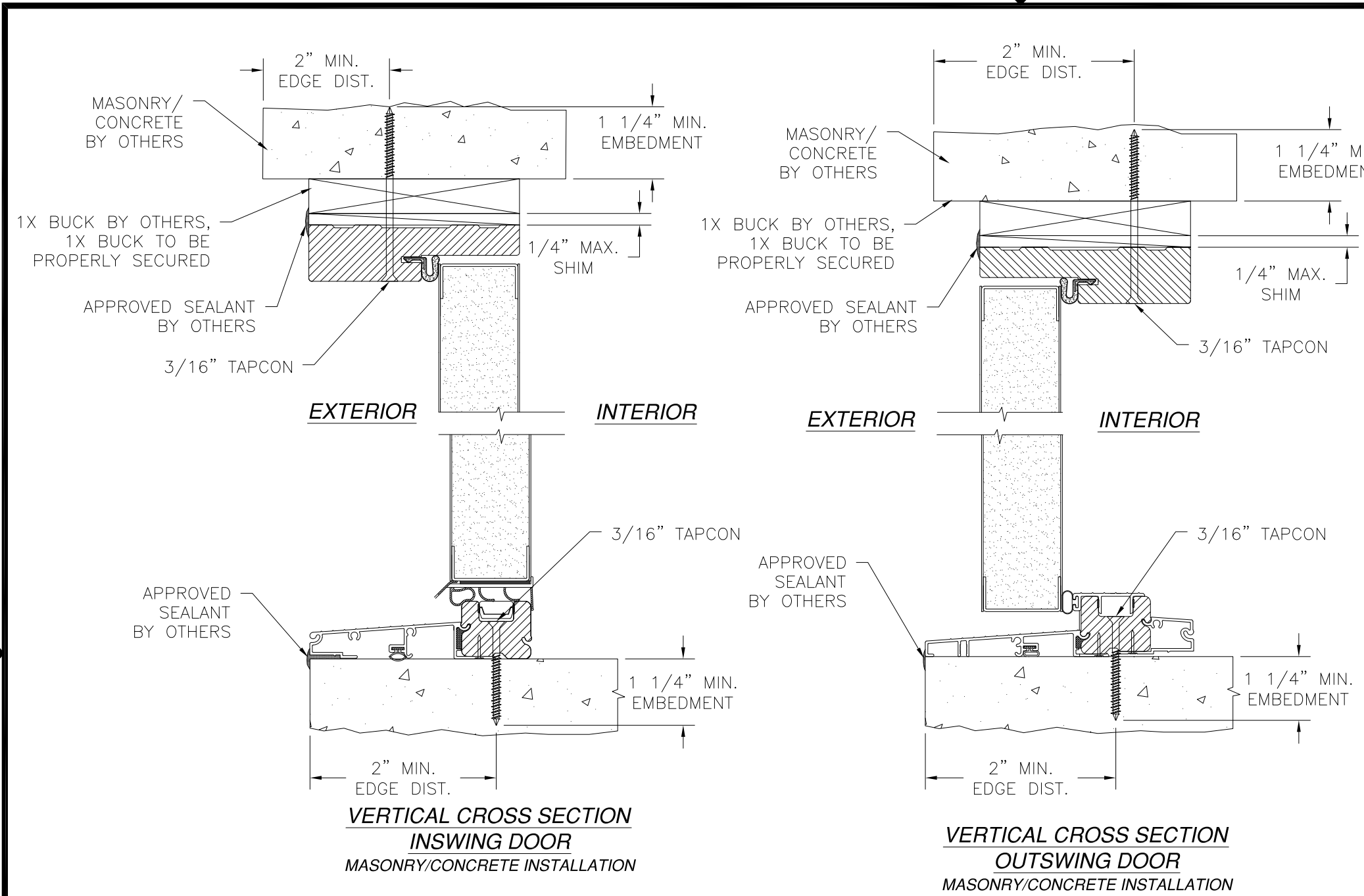
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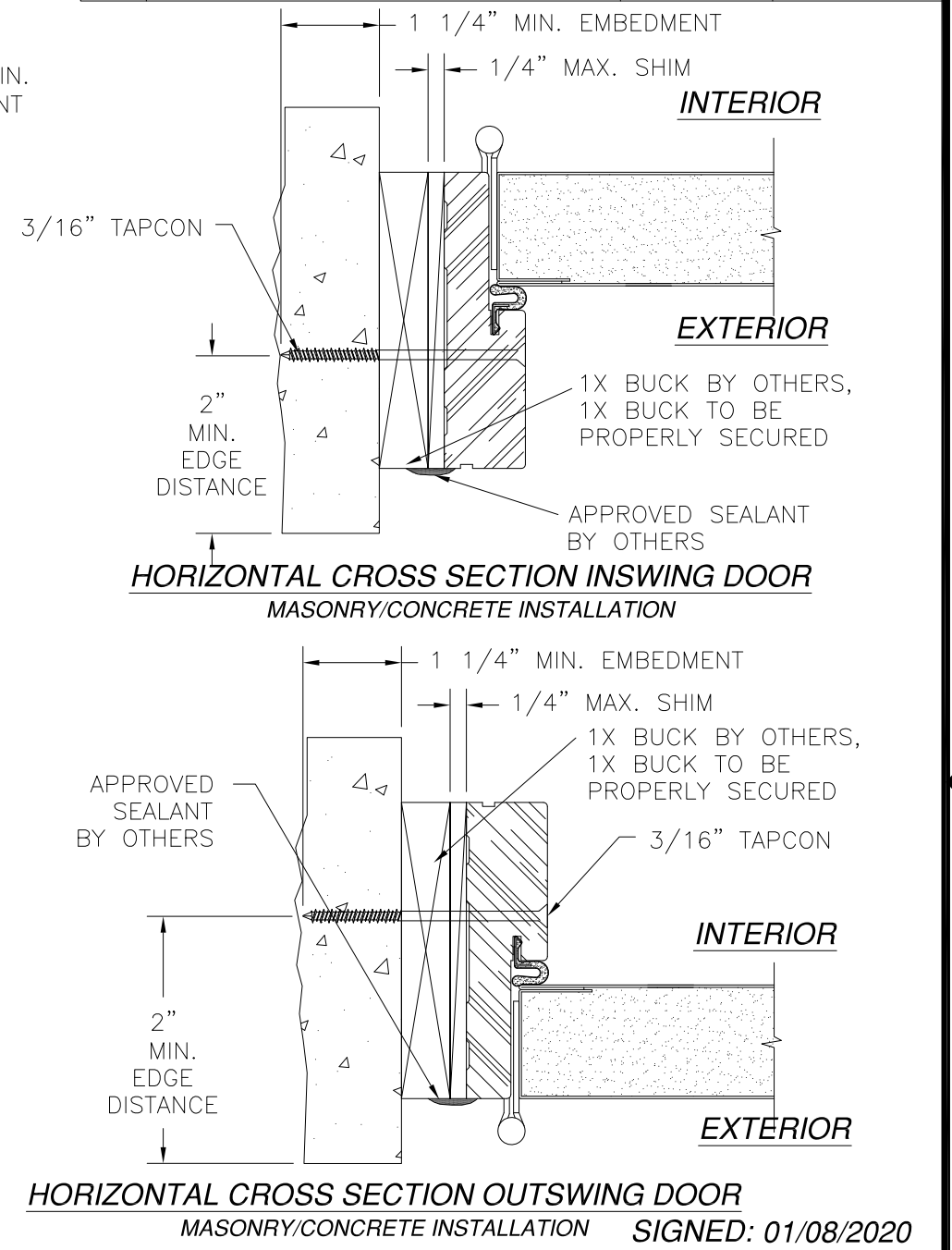
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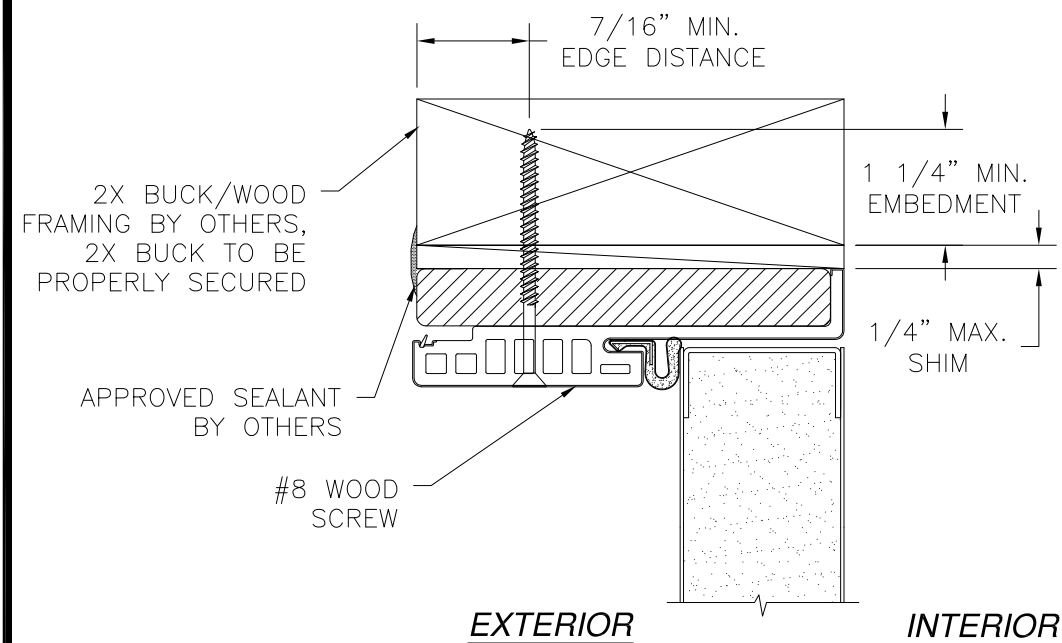
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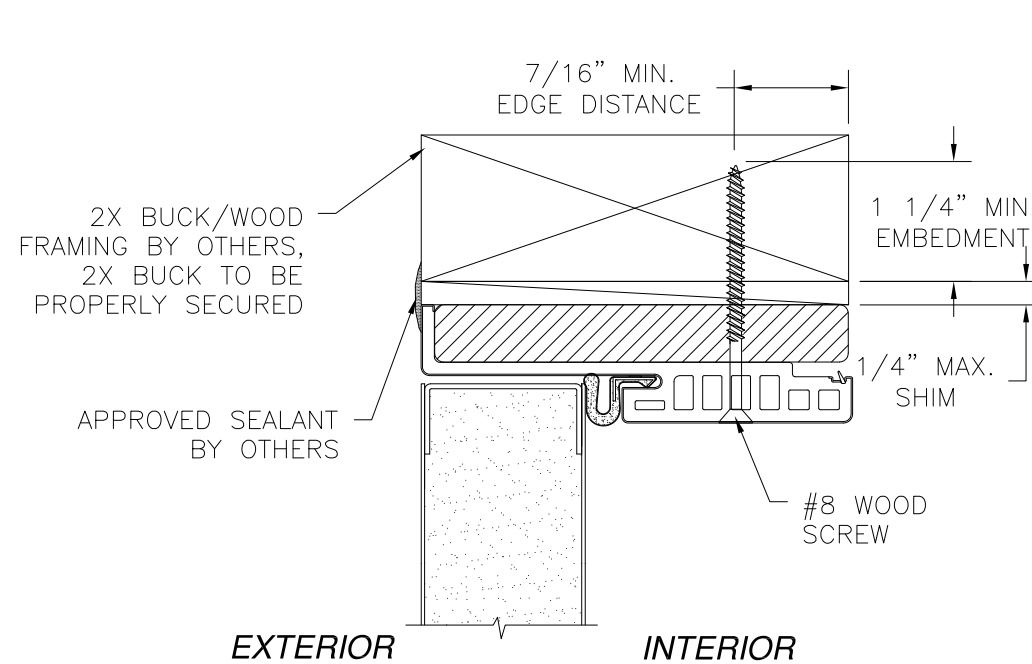
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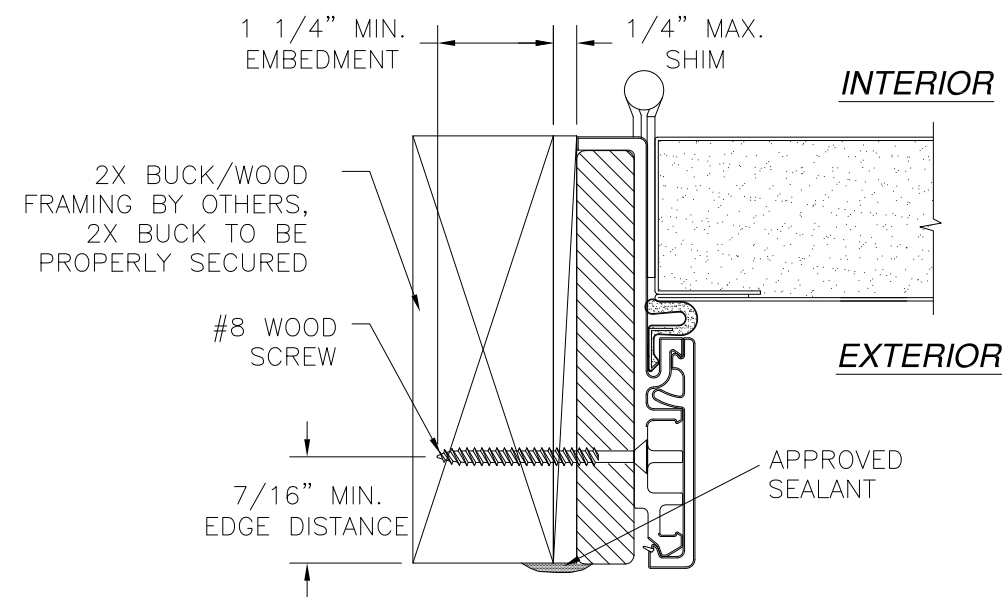
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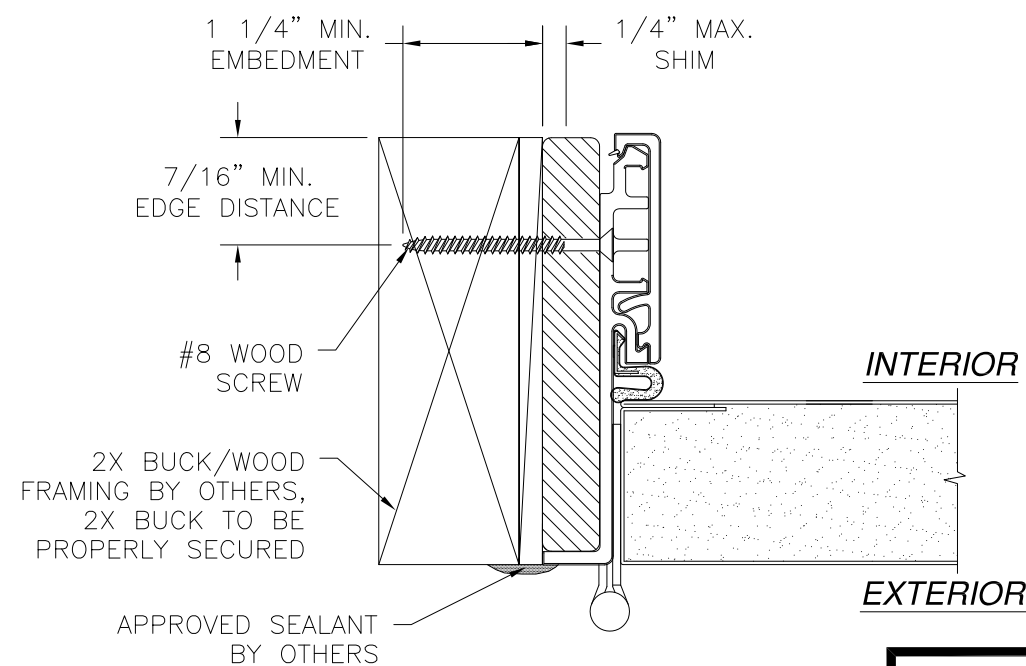
**VERTICAL CROSS SECTION
INSWING DOOR**
2X BUCK/WOOD FRAMING INSTALLATION



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



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

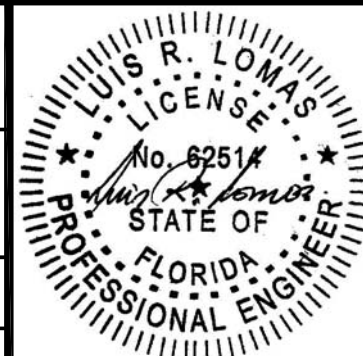


**HORIZONTAL CROSS SECTION
OUTSWING DOOR**
2X BUCK/WOOD FRAMING INSTALLATION

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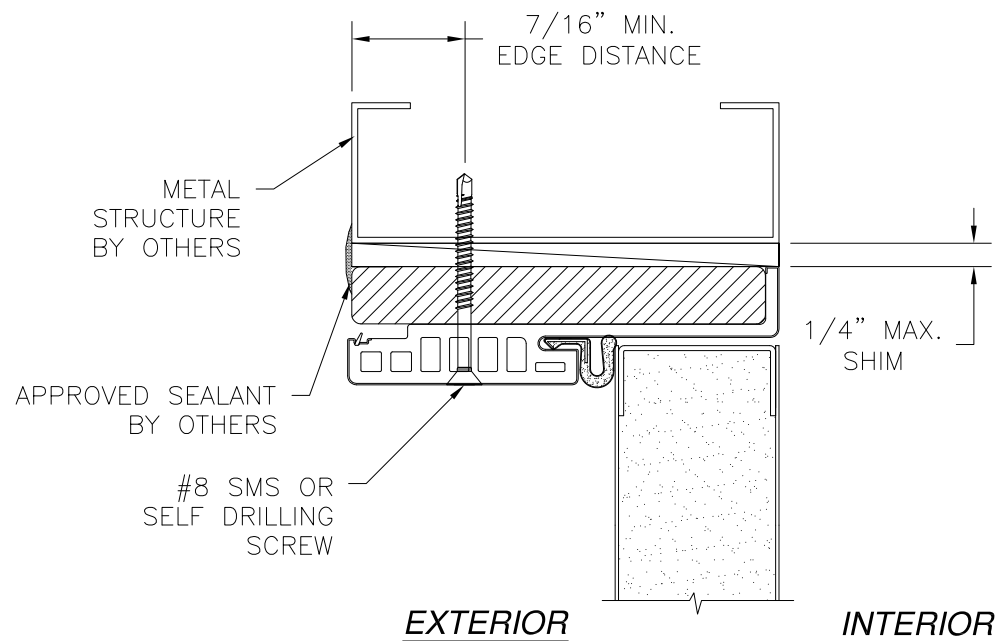
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20GA. STEEL ENTRY DOOR IS/OS INSTALLATION DETAILS W/FUSION FRAME		
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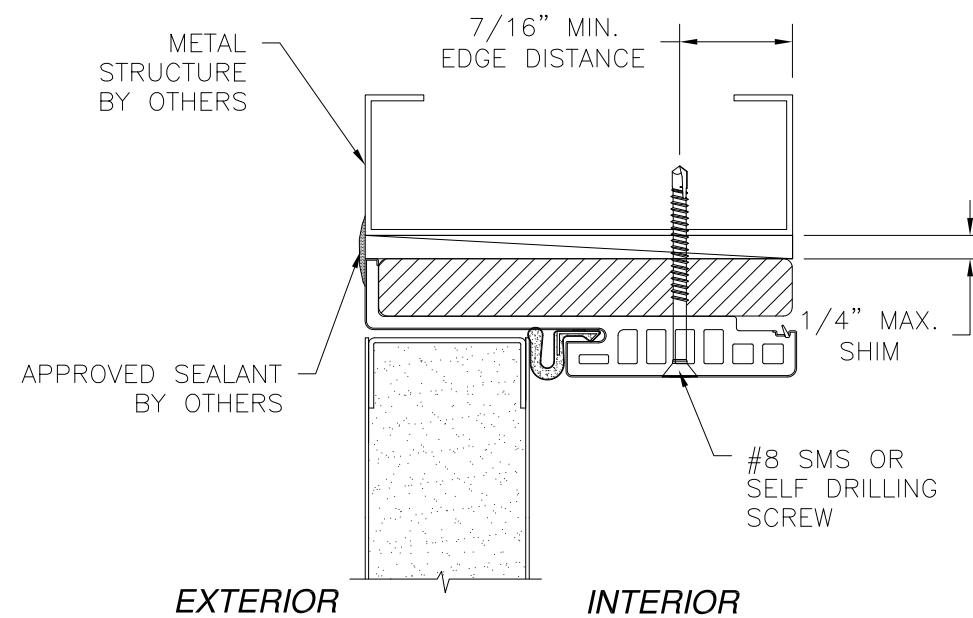
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EXTERIOR INTERIOR

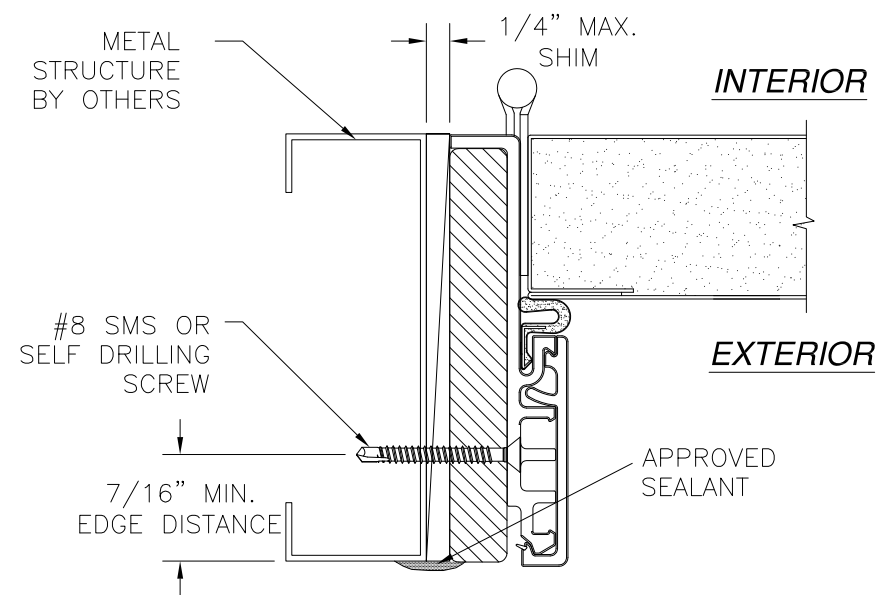
VERTICAL CROSS SECTION
INSWING DOOR
METAL STRUCTURE INSTALLATION



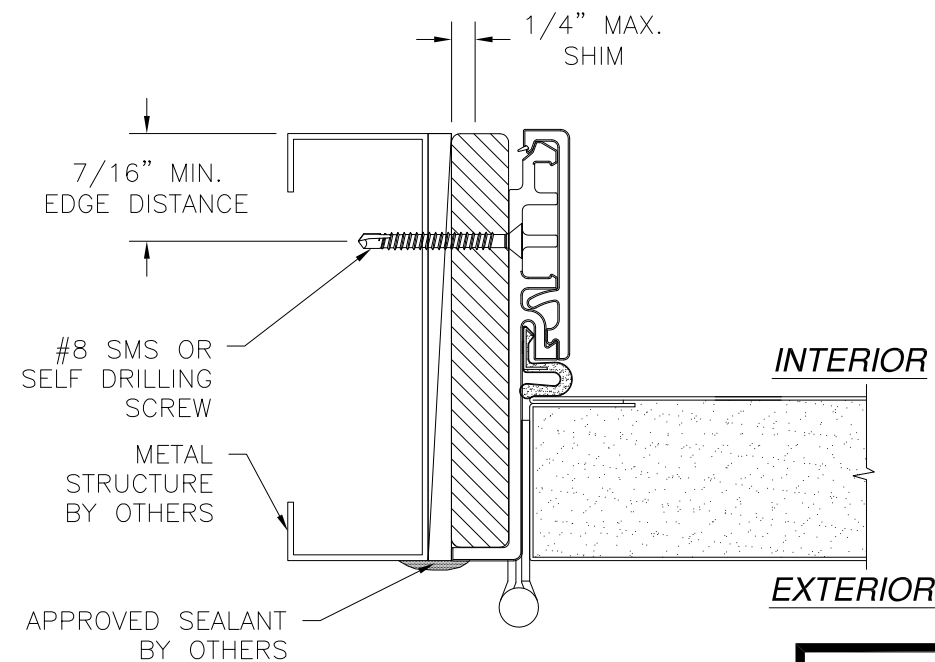
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VERTICAL CROSS SECTION
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METAL STRUCTURE INSTALLATION

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HORIZONTAL CROSS SECTION
INSWING DOOR
METAL STRUCTURE INSTALLATION



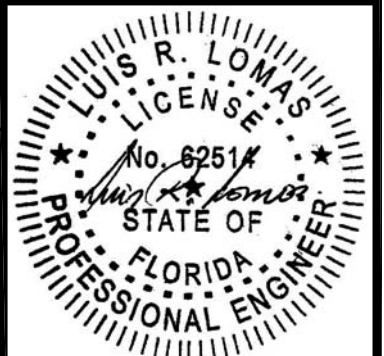
HORIZONTAL CROSS SECTION
OUTSWING DOOR
METAL STRUCTURE INSTALLATION

NOTES:

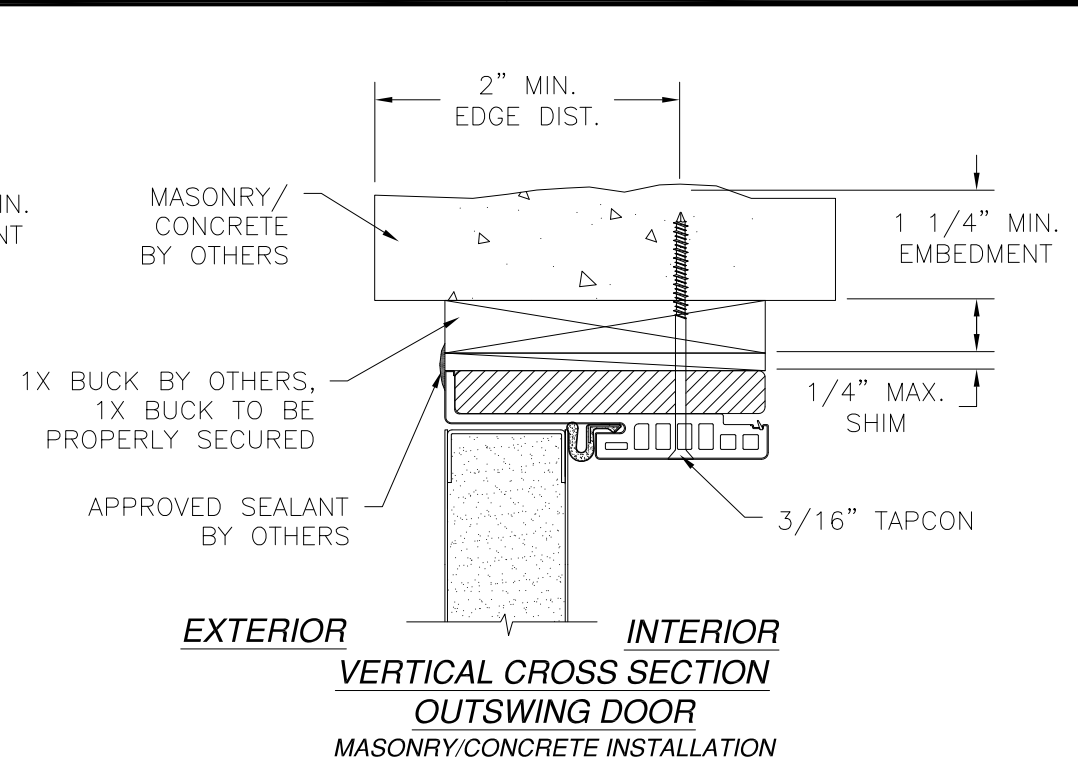
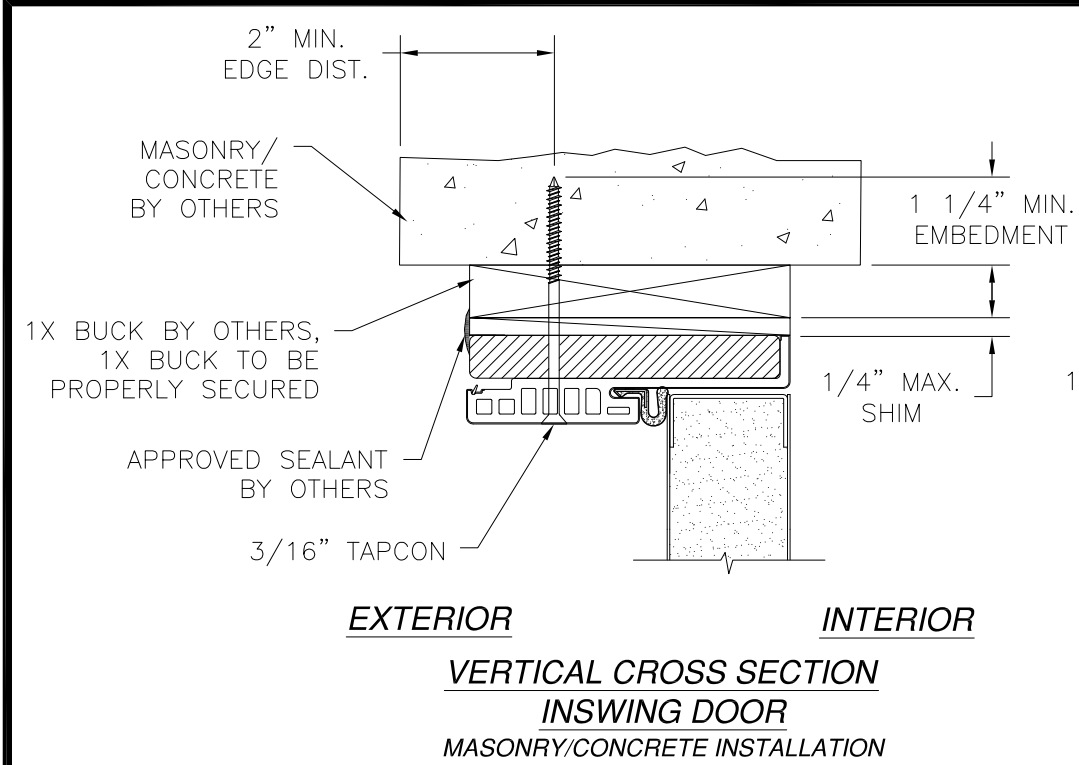
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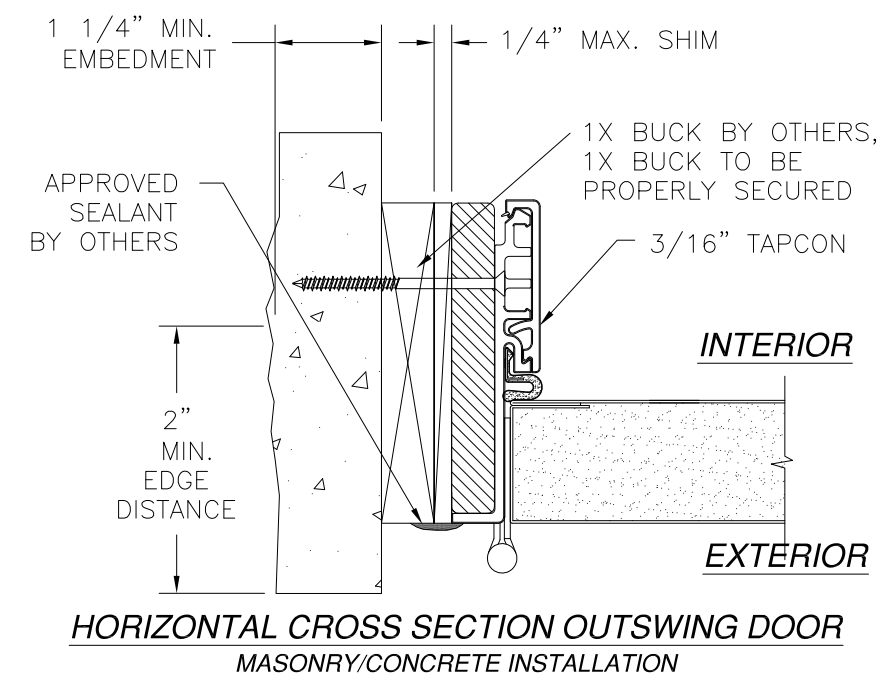
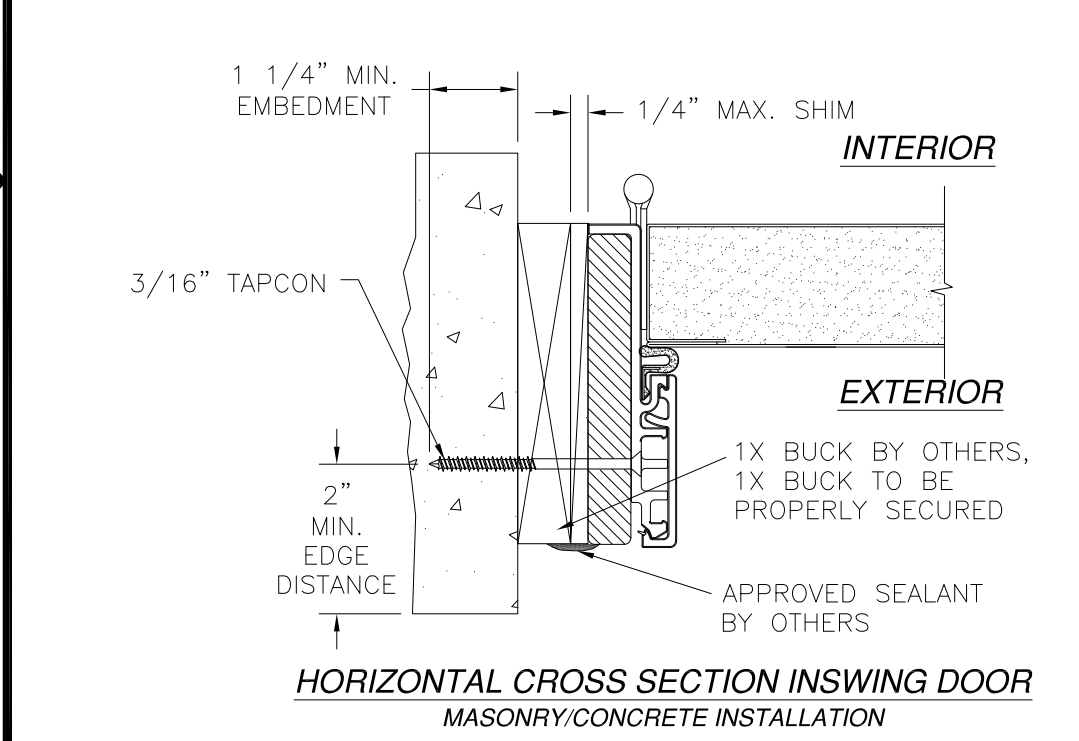
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
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DRAWN: TJH	DWG NO. 08-00905	REV D
SCALE NTS	DATE 12/16/09	SHEET 9 OF 12
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IS/OS

INSTALLATION DETAILS W/FUSION FRAME

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SHEET 10 OF 12

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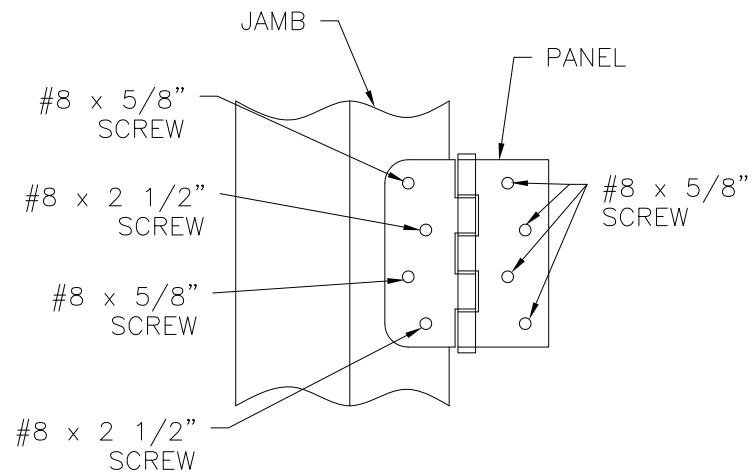
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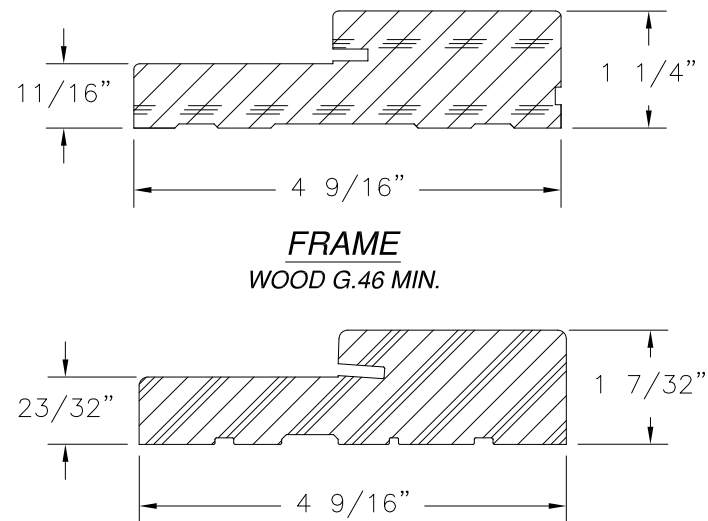
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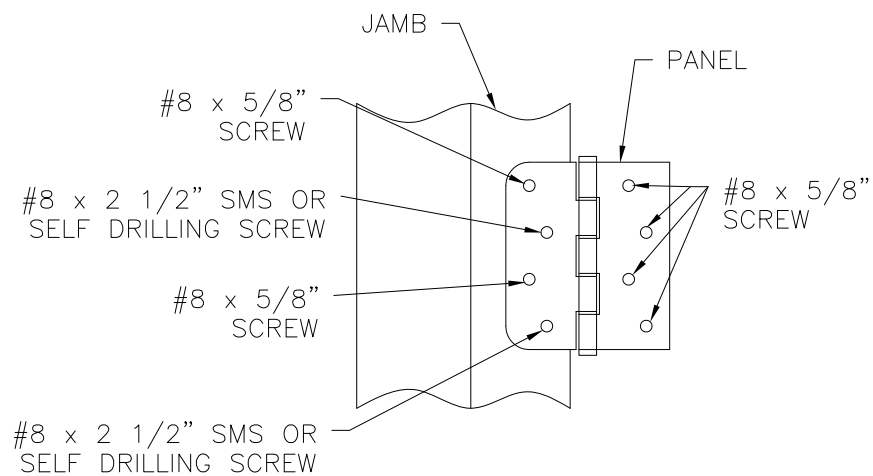
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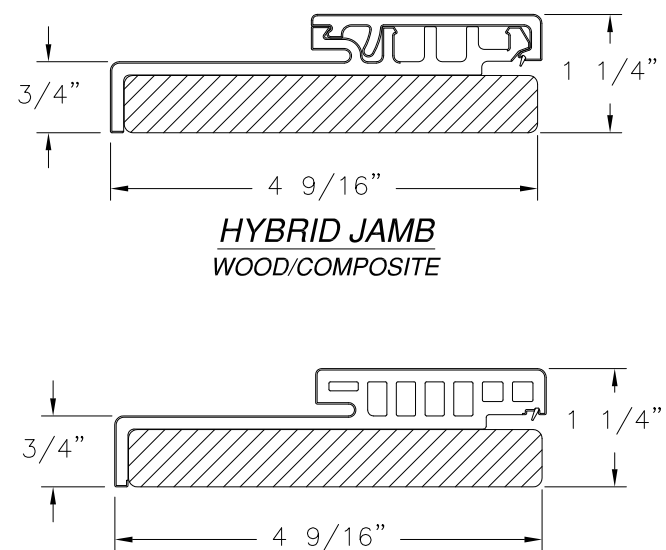
HINGE INSTALLATION DETAIL
2X BUCK/WOOD FRAMING INSTALLATION



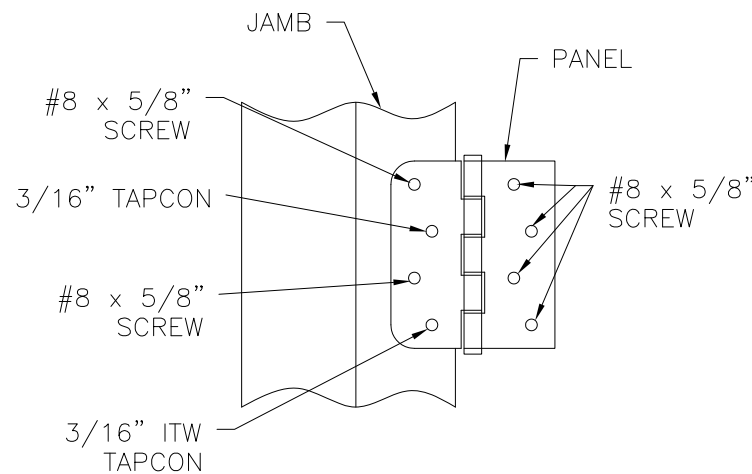
FRAMESAVER
COMPOSITE



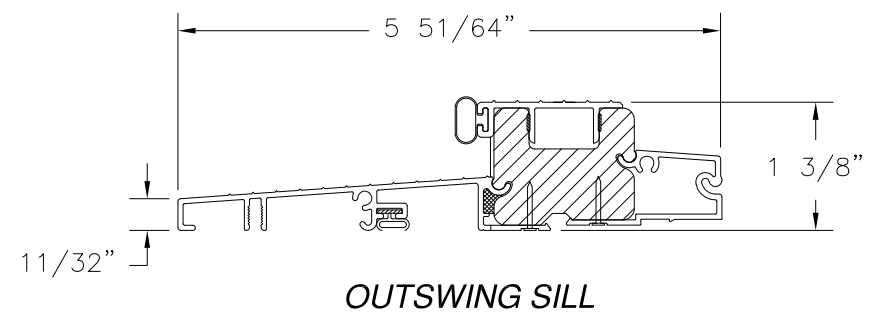
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METAL STRUCTURE INSTALLATION



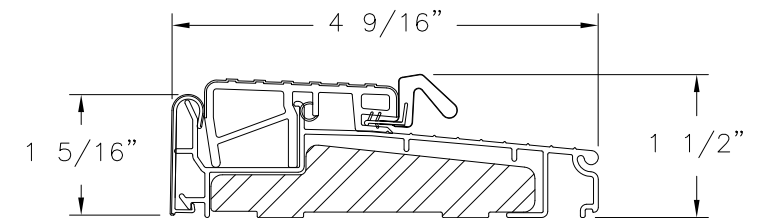
HYBRID HEAD
WOOD/COMPOSITE



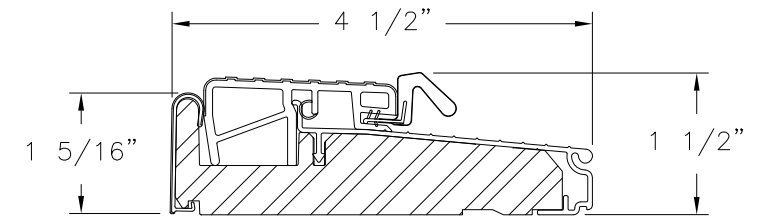
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MASONRY/CONCRETE INSTALLATION



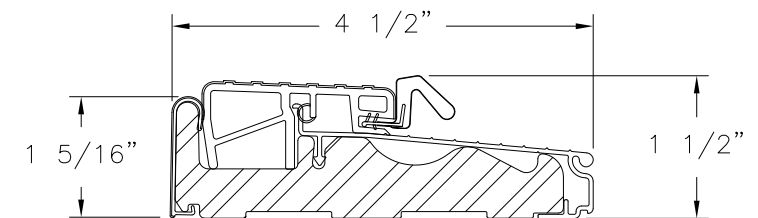
OUTSWING SILL



OUTSWING SILL ZOBL4565



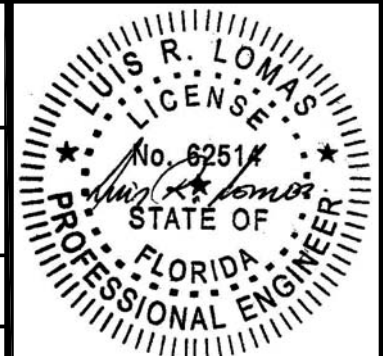
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OUTSWING SILL ZOBLH4565

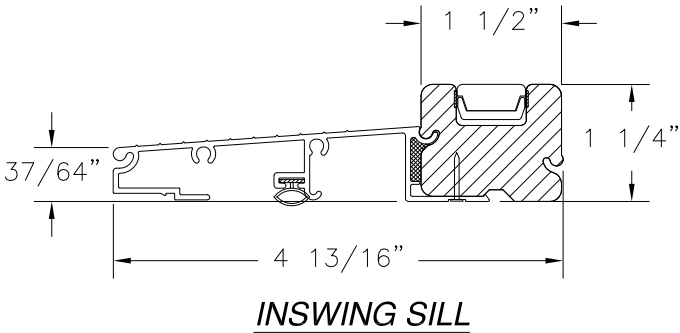
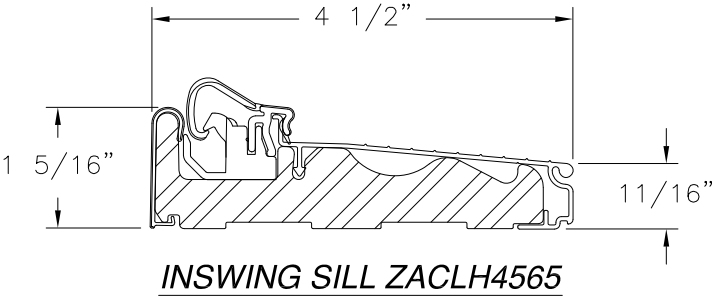
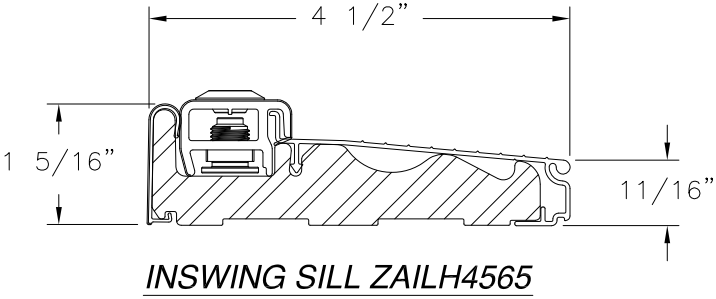
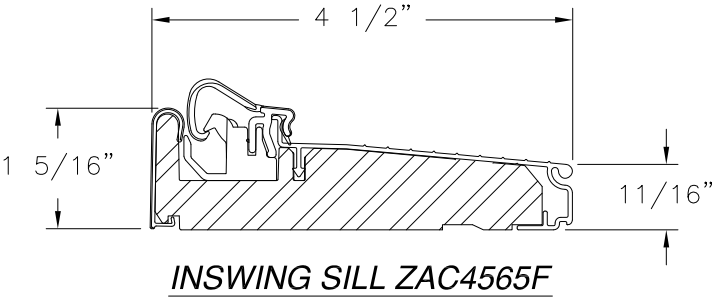
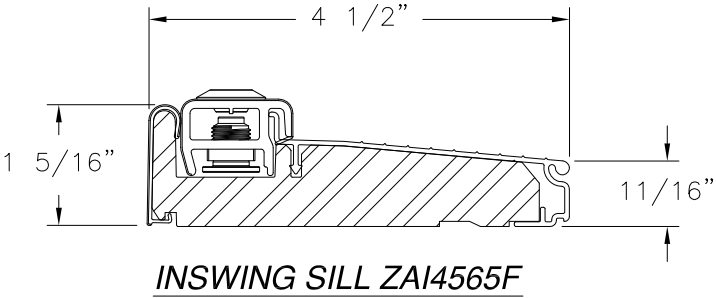
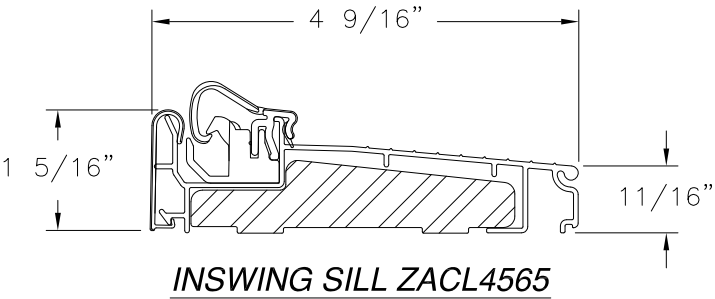
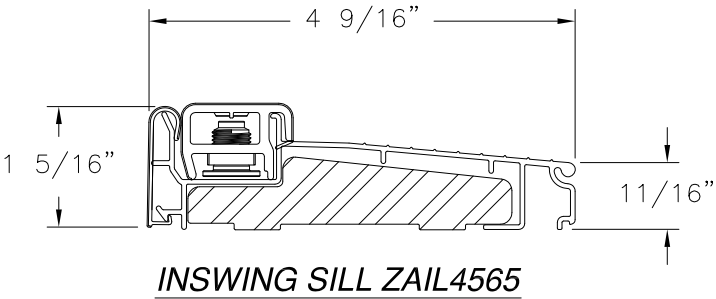
SIGNED: 01/08/2020

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
20GA. STEEL ENTRY DOOR IS/OS COMPONENTS AND HINGES DETAILS		
DRAWN: TJH	DWG NO. 08-00905	REV D
SCALE NTS	DATE 12/16/09	SHEET 11 OF 12
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
D	ADDED SILLS	12/31/19	R.L.



SIGNED: 01/08/2020

PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. STEEL ENTRY DOOR
IS/OS
COMPONENTS

DRAWN:
TJH

DATE
12/16/09

DWG NO.
08-00905

SHEET
12 OF 12

REV
D

L. ROBERTO LOMAS P.E.

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