

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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 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.
4. 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.
5. 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.
6. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS NEEDED 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”.
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. PANEL MATERIAL: 0.098” FIBERGLASS SKIN WITH FOAM CORE.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 FOR GLAZING DETAIL.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.

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 1/8” THICK MINIMUM

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THE MUHLER COMPANY, INC.

630 SKYLARK DRIVE
CHARLESTON, SC 29407

MUHLER DOOR, GLAZED, OUTSWING
IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-04082

REV
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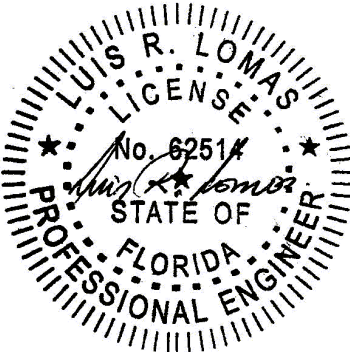
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DATE 07/25/2024

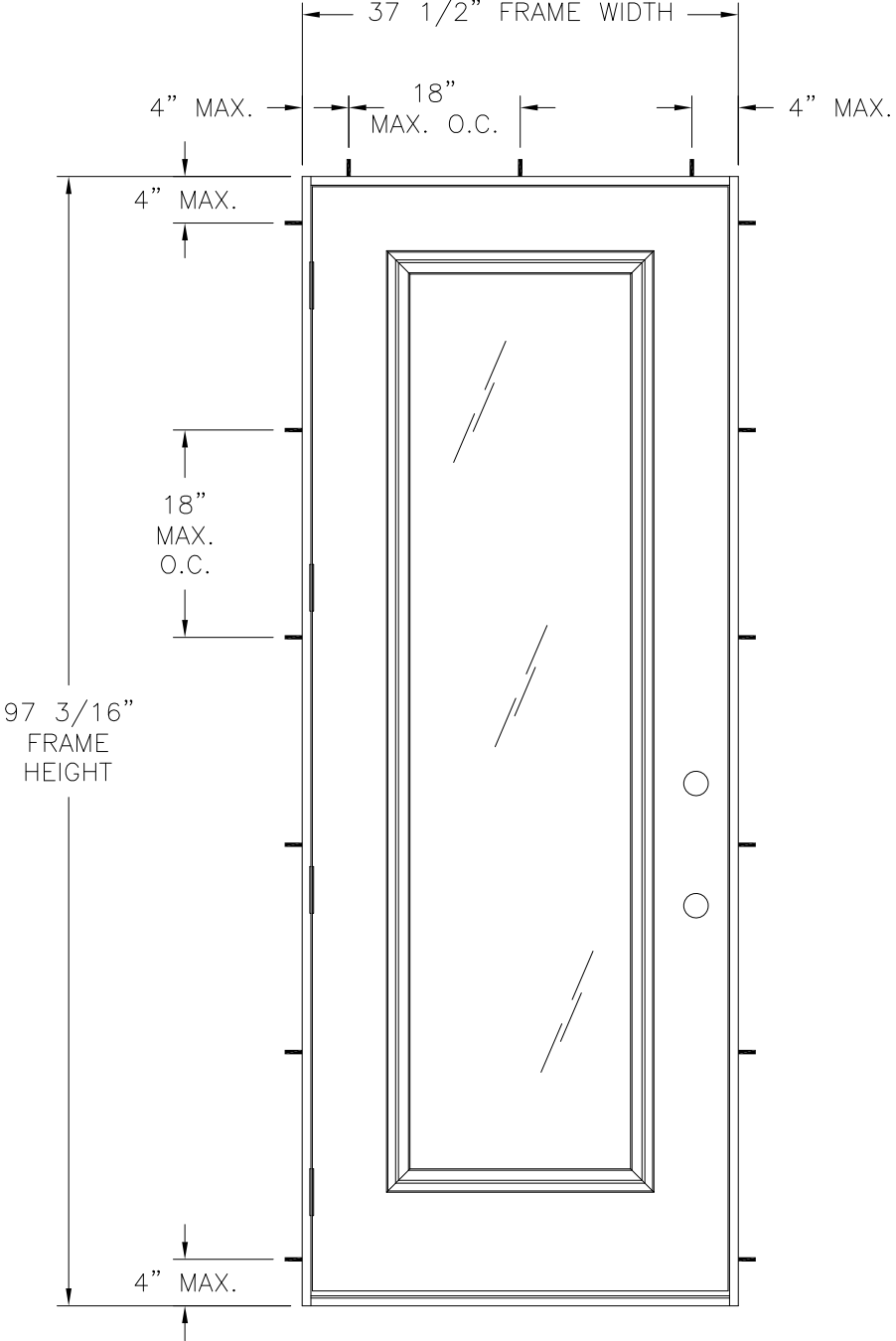
SHEET 1 OF 6

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

SIGNED: 08/07/2024



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



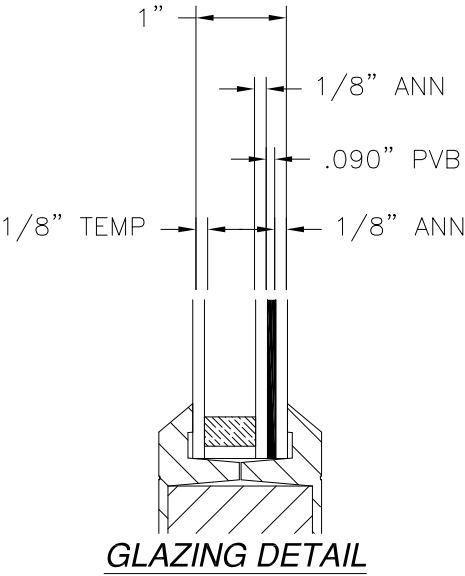
SINGLE DOOR OUTSWING
EXTERIOR VIEW
ANCHORING LAYOUT

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE & SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3
37 1/2" X 97 3/16" UNIT SHOWN. OTHER SIZES APPROVED AS LONG
AS FRAME AREA DOES NOT EXCEED 25.30 FT²

HARDWARE SCHEDULE	
A.	(1) DOORKNOB AT 33 1/8" FROM BOTTOM OF SLAB
B.	(1) DEADBOLT AT 10 1/2" ABOVE DOORKNOB
C.	(4) STEEL HINGES AT 7 3/8" FROM TOP AND 26" ON CENTER

- NOTES:
- SLAB SIZE: 35 3/4" X 95"
 - D.L.O. SIZE: 22 3/4" X 80 3/4"



GLAZING DETAIL

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630 SKYLARK DRIVE
CHARLESTON, SC 29407

MUHLER DOOR, GLAZED, OUTSWING
IMPACT
ELEVATIONS

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08-04082

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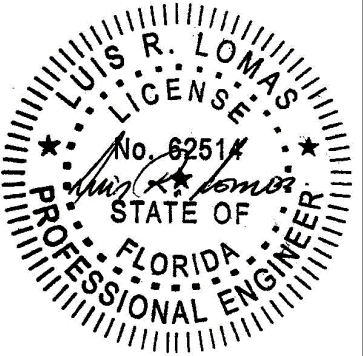
SCALE
NTS

DATE
07/25/2024

SHEET
2 OF 6

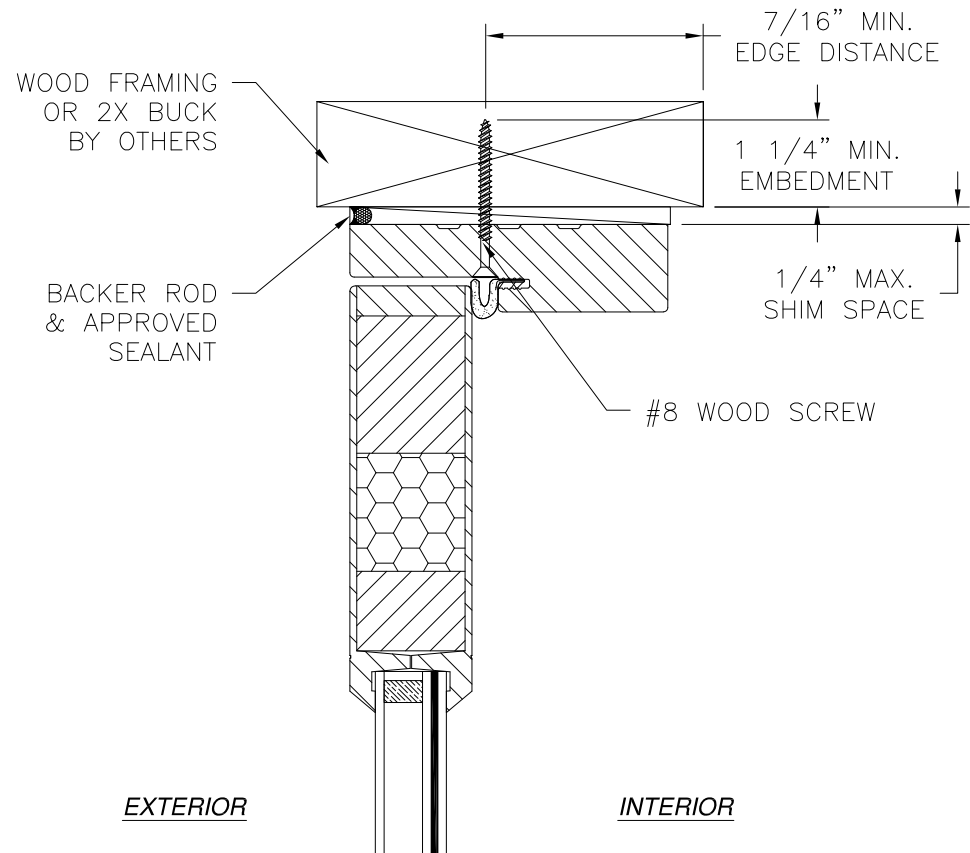
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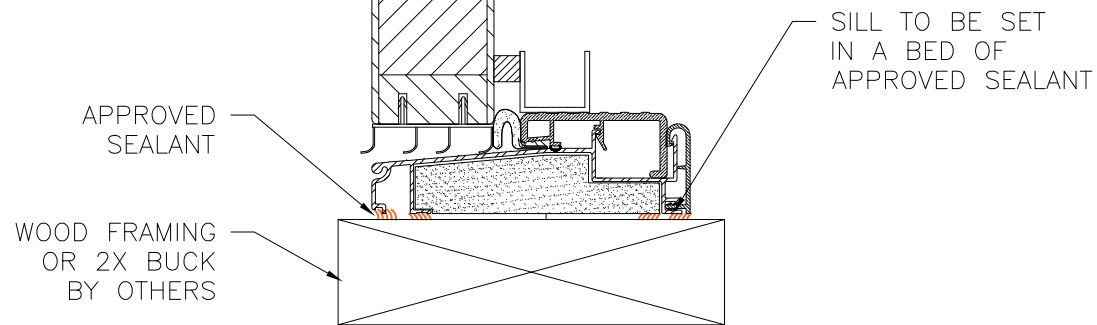
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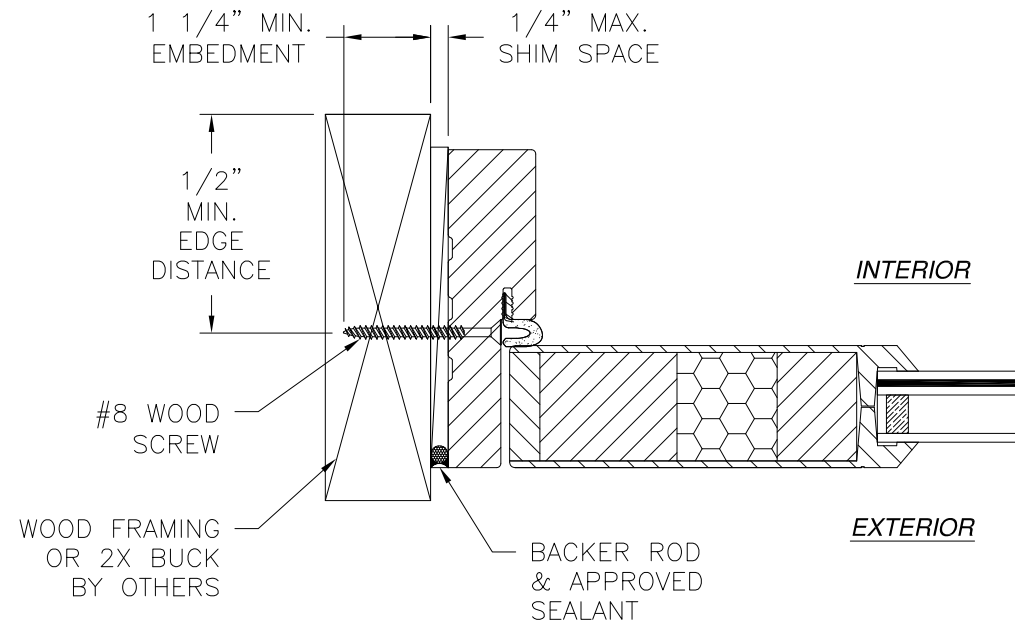


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



INTERIOR

EXTERIOR

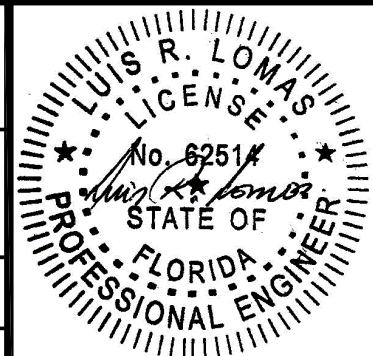
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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

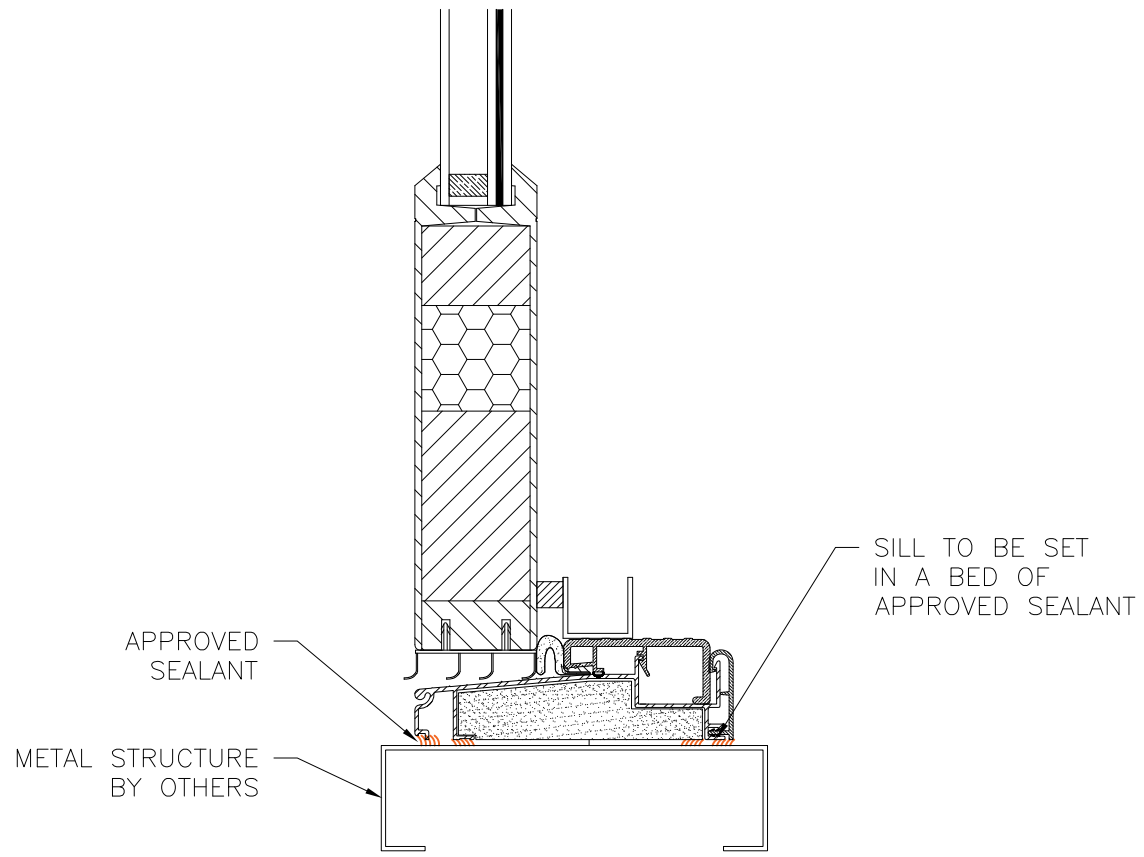
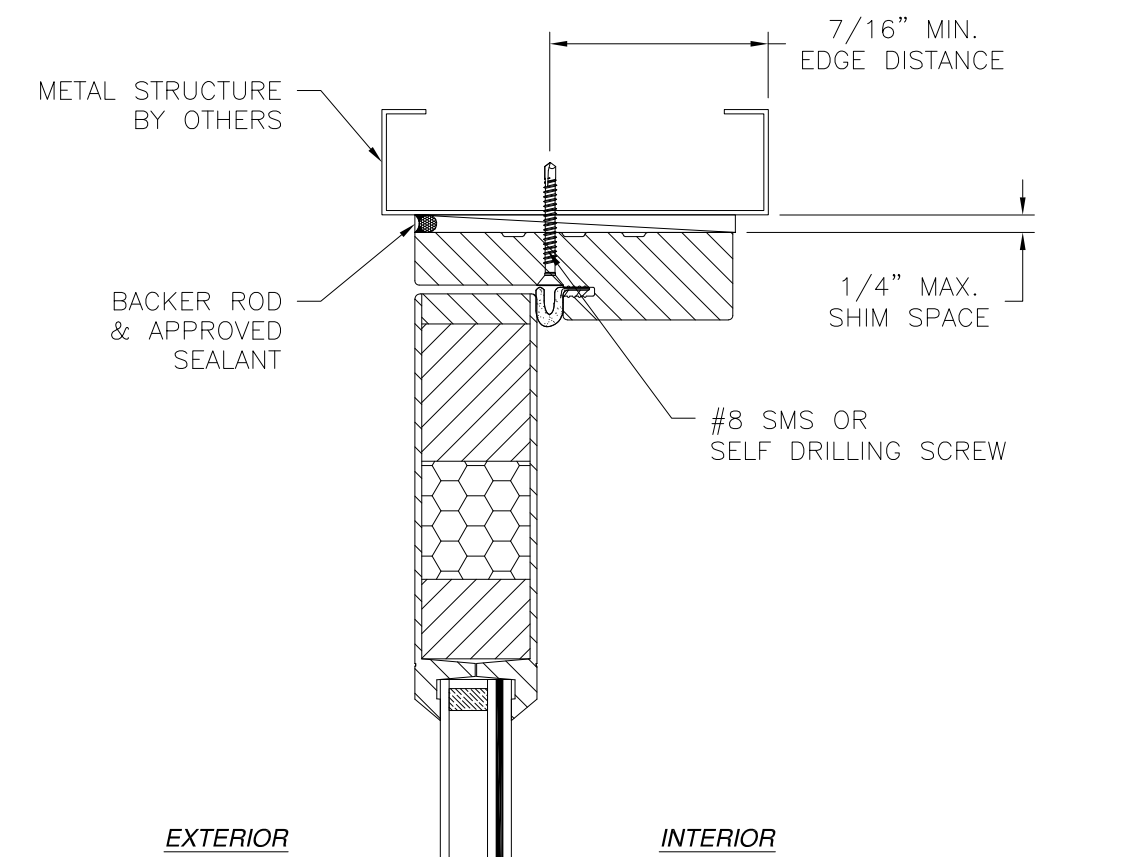
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THE MUHLER COMPANY, INC. 630 SKYLARK DRIVE CHARLESTON, SC 29407		
MUHLER DOOR, GLAZED, OUTSWING IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04082	REV -
SCALE NTS	DATE 07/25/2024	SHEET 3 OF 6
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

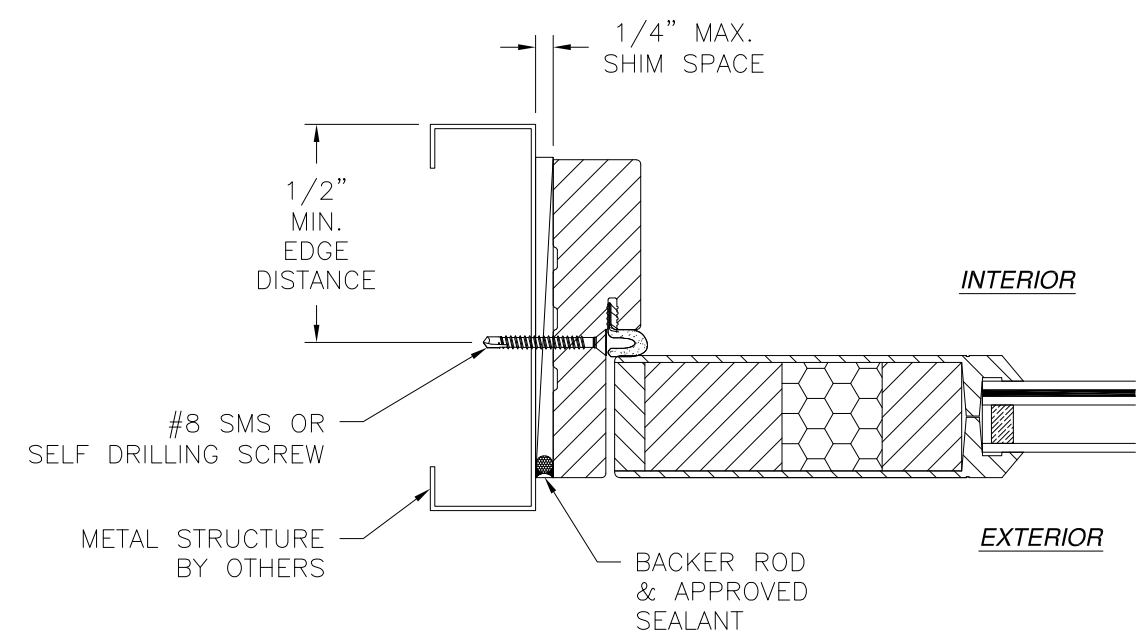


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



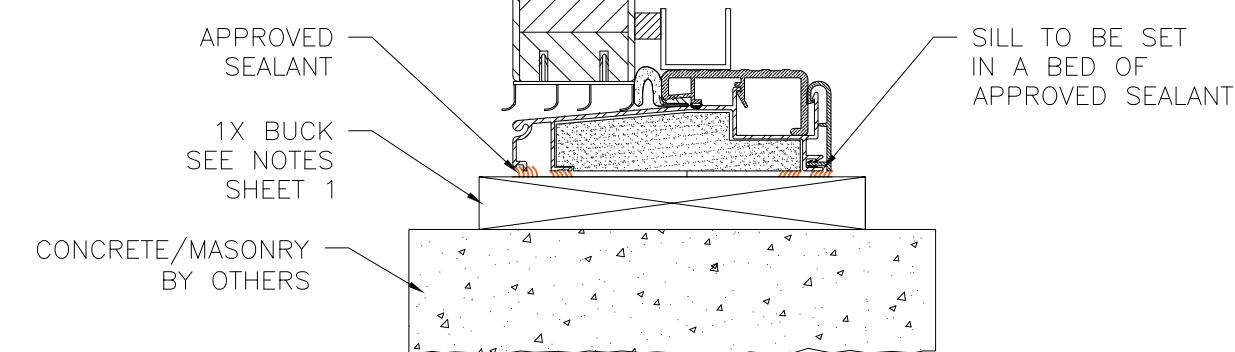
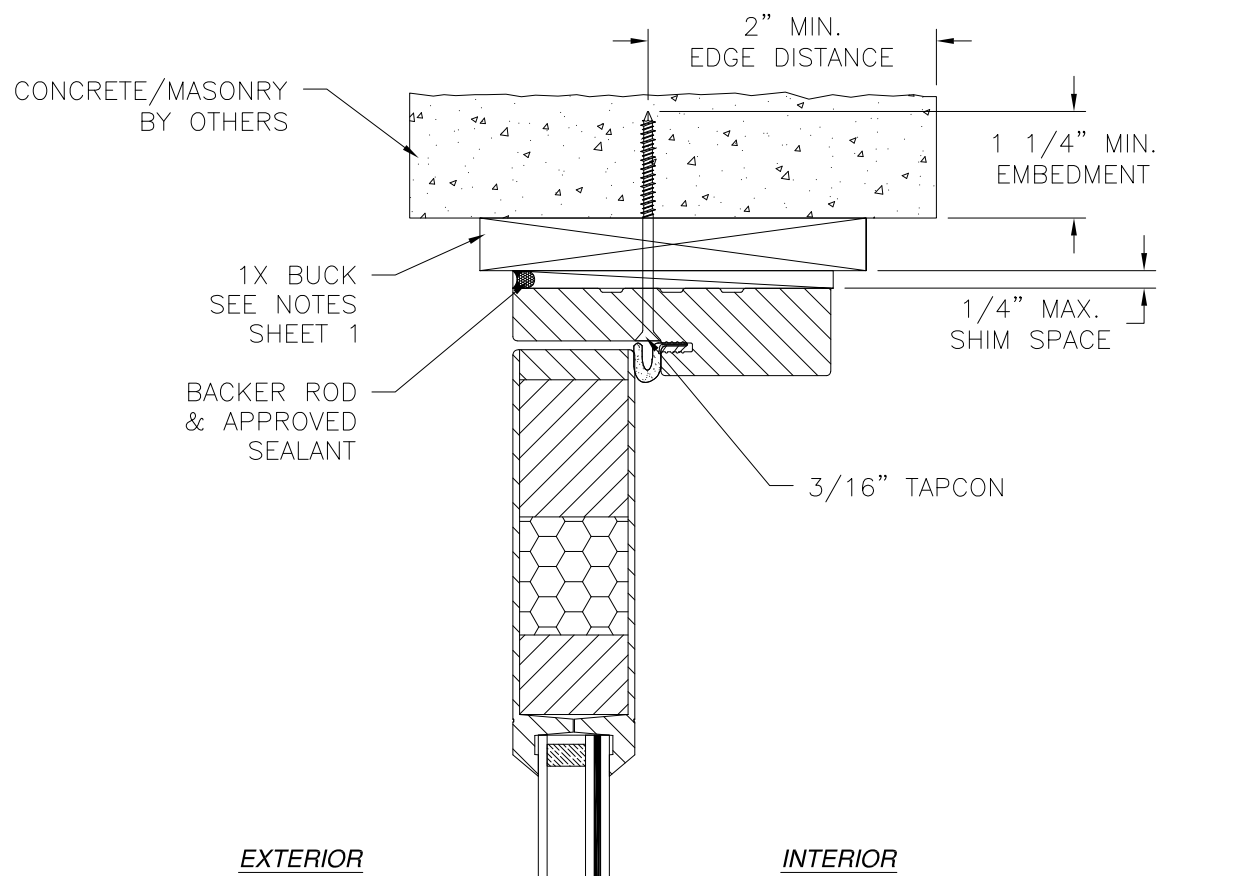
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

- 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

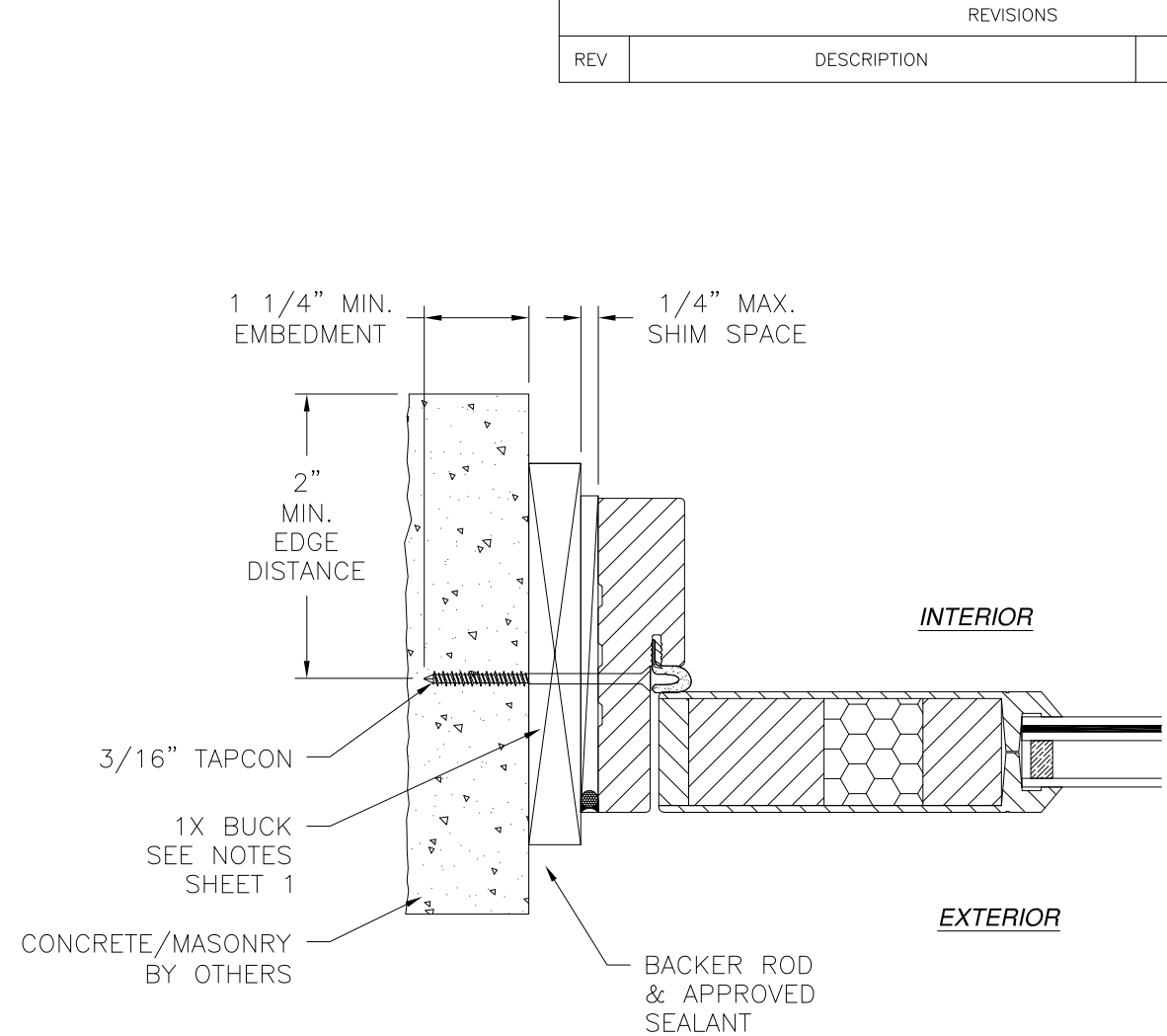
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THE MUHLER COMPANY, INC. 630 SKYLARK DRIVE CHARLESTON, SC 29407		
MUHLER DOOR, GLAZED, OUTSWING IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04082	REV -
SCALE NTS	DATE 07/25/2024	SHEET 4 OF 6
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

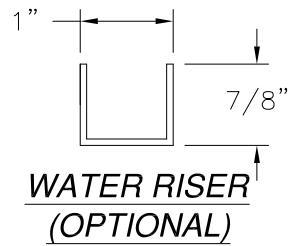
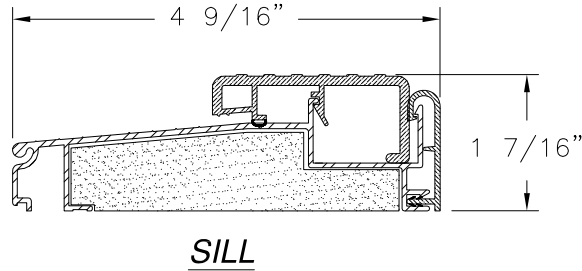
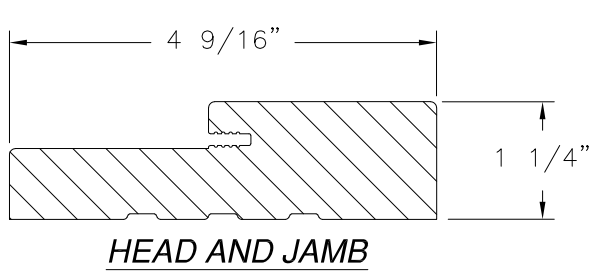
- NOTES:
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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

THE MUHLER COMPANY, INC. 630 SKYLARK DRIVE CHARLESTON, SC 29407		
MUHLER DOOR, GLAZED, OUTSWING IMPACT INSTALLATION DETAILS		
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SCALE NTS	DATE 07/25/2024	SHEET 5 OF 6
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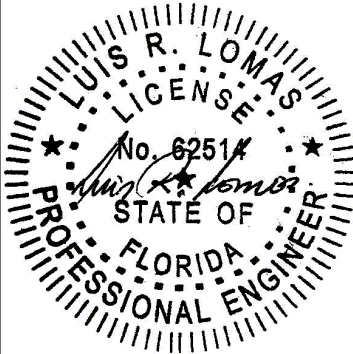
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THE MUHLER COMPANY, INC. 630 SKYLARK DRIVE CHARLESTON, SC 29407			
MUHLER DOOR, GLAZED, OUTSWING IMPACT COMPONENTS			
DRAWN: A.R.	DWG NO. 08-04082	REV -	
SCALE NTS	DATE 07/25/2024	SHEET 6 OF 6	
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