

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED ANCHORING DETAILS	10/23/2023	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. 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" WINDOW 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. WINDOW 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 WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
8. SHIMS SHALL BE MADE FROM MATERIALS CAPABLE OF SUSTAINING APPLICABLE LOADS, LOCATED AND APPLIED IN A THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING 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 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 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:
 - 17.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 17.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - 17.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 17.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

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MI WINDOWS AND DOORS, LLC.
650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 3540 FINLESS PVC SH WINDOW
STEEL REINFORCED – NON-IMPACT 52" X 62"
NOTES

DRAWN:
V.L.

DWG NO.
08-02269

REV
C

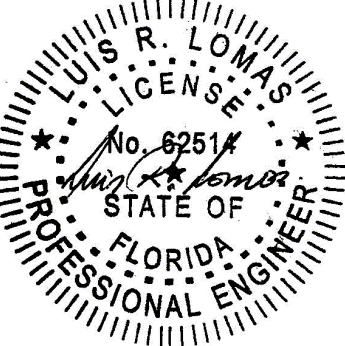
SCALE NTS

DATE 01/09/14

SHEET 1 OF 9

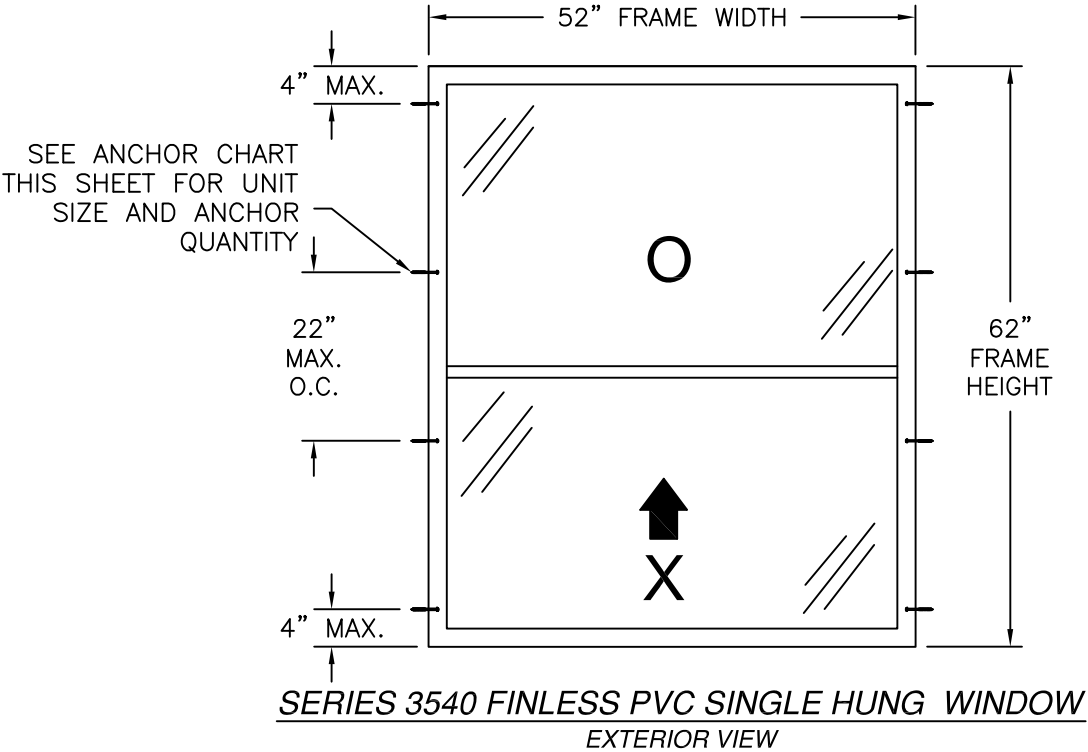
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

SIGNED: 03/20/2024



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

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DESIGN PRESSURE RATING	IMPACT RATING
± 35.0 PSF	NONE

52" X 62" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 22.38 FT²

- NOTES:
- SASH SIZE: 50 1/16" X 30 7/16"
 - D.L.O.: 48 1/8" X 27 1/2"

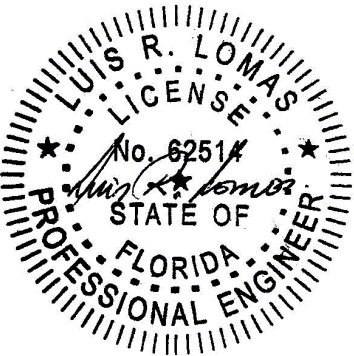
HARDWARE SCHEDULE	
A.	(2) METAL CAM LOCK, 7" FROM EACH END AT INTERIOR MEETING RAIL WITH KEEPERS
B.	(2) PVC SURFACE MOUNT TILT LATCH AT INTERIOR MEETING RAIL ENDS
C.	(2) COIL BALANCES AT EACH JAMB
D.	(2) METAL PIVOT BAR AT BOTTOM RAIL ENDS
E.	STEEL REINFORCEMENT (GVL-451-020) AT SASH RAILS AND STILES
F.	STEEL REINFORCEMENT (RF-104S-020) AT FIXED MEETING RAIL

Number of anchors required at each jam.

Height (in)	Panel width (in)				
	20.0	30.0	36.0	42.0	48.0
24.0	2	2	2	2	2
30.0	2	2	2	2	2
36.0	3	3	3	3	3
42.0	3	3	3	3	3
48.0	3	3	3	3	3
54.0	3	3	3	3	3
60.0	4	4	4	4	4
66.0	4	4	4	4	4

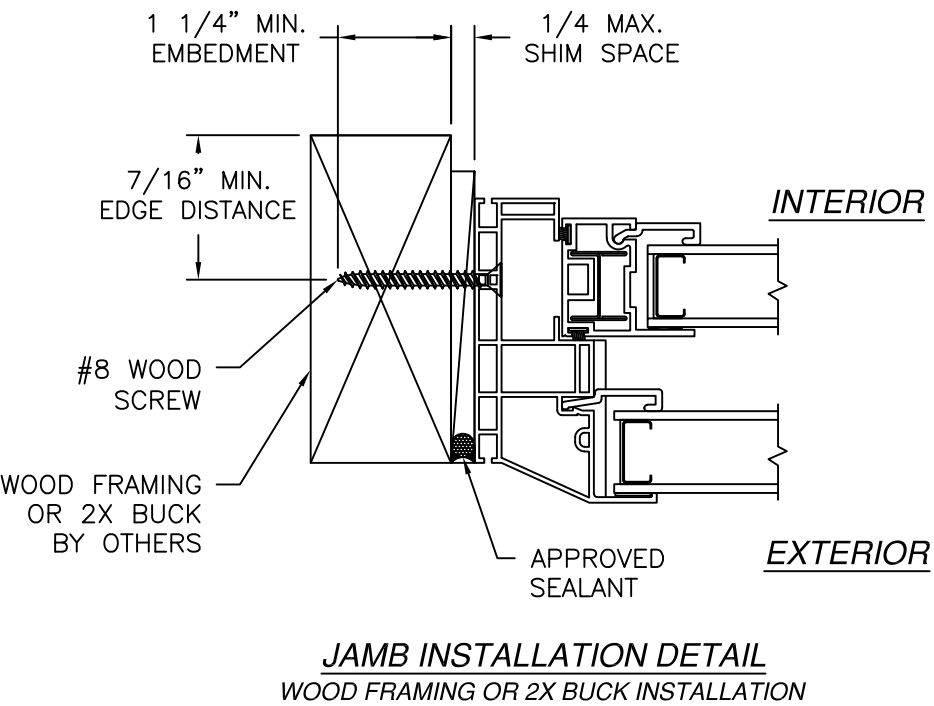
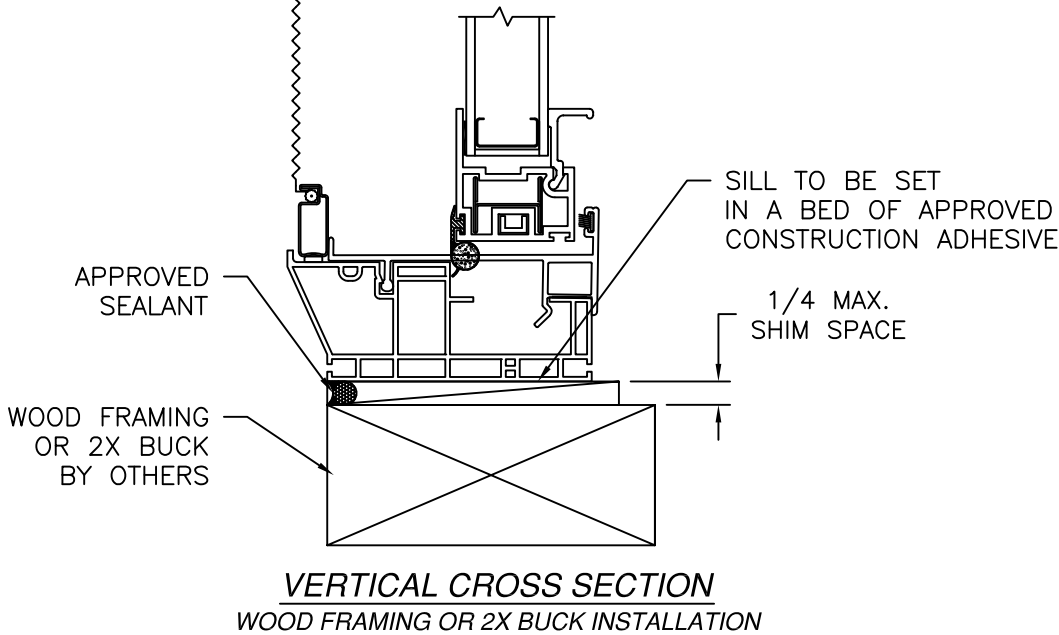
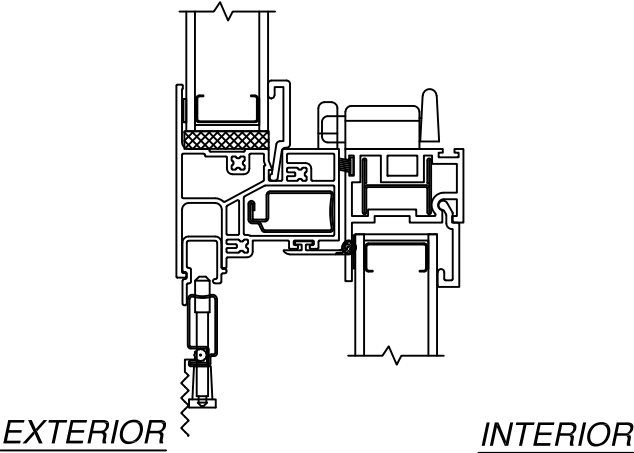
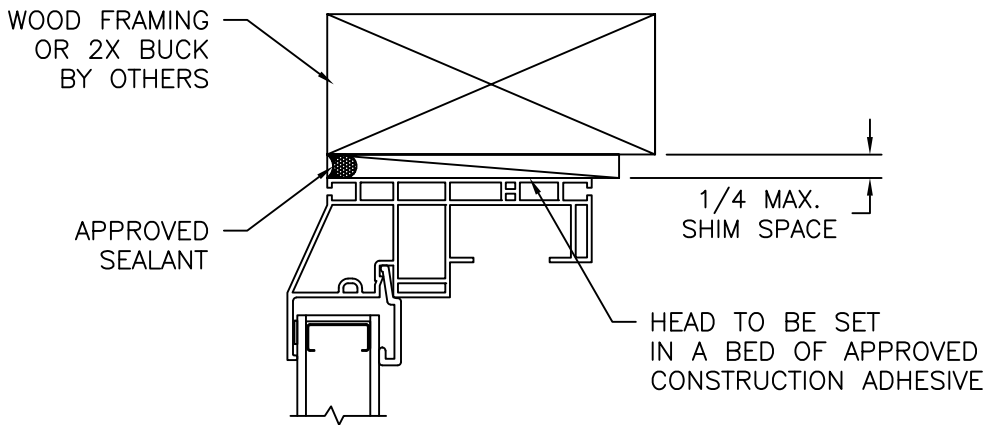
MI WINDOWS AND DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 3540 FINLESS PVC SH WINDOW STEEL REINFORCED – NON-IMPACT 52" X 62" ELEVATION		
DRAWN: V.L.	DWG NO. 08-02269	REV C
SCALE NTS	DATE 01/09/14	SHEET 2 OF 9
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

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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

MI WINDOWS AND DOORS, LLC.
650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 3540 FINLESS PVC SH WINDOW
STEEL REINFORCED – NON-IMPACT 52" X 62"
INSTALLATION DETAILS

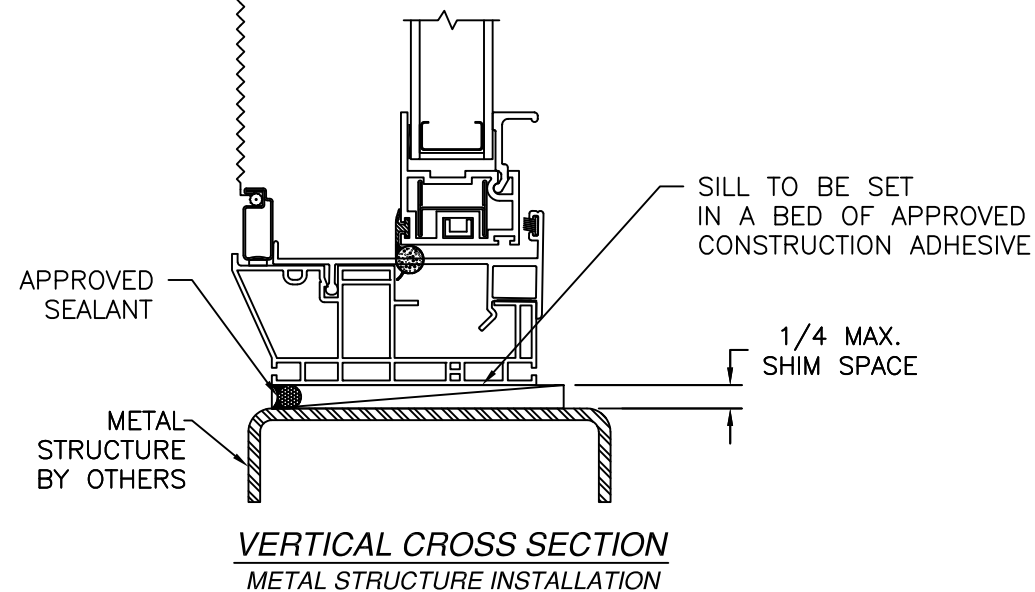
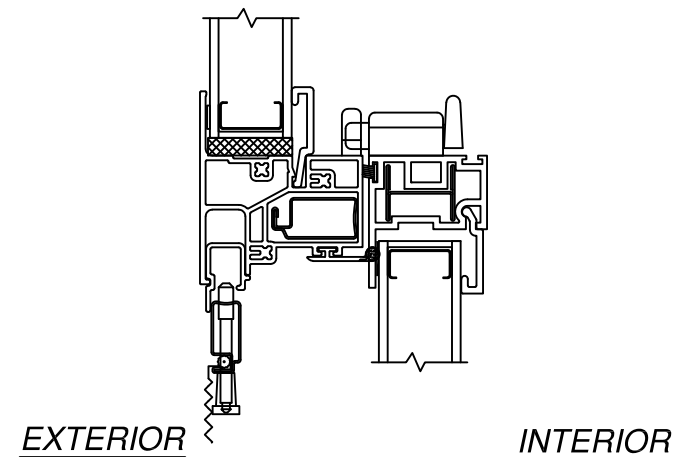
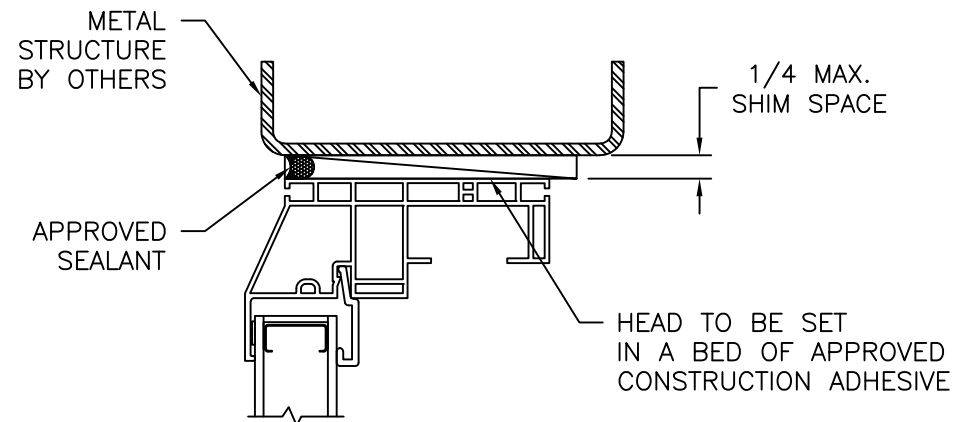
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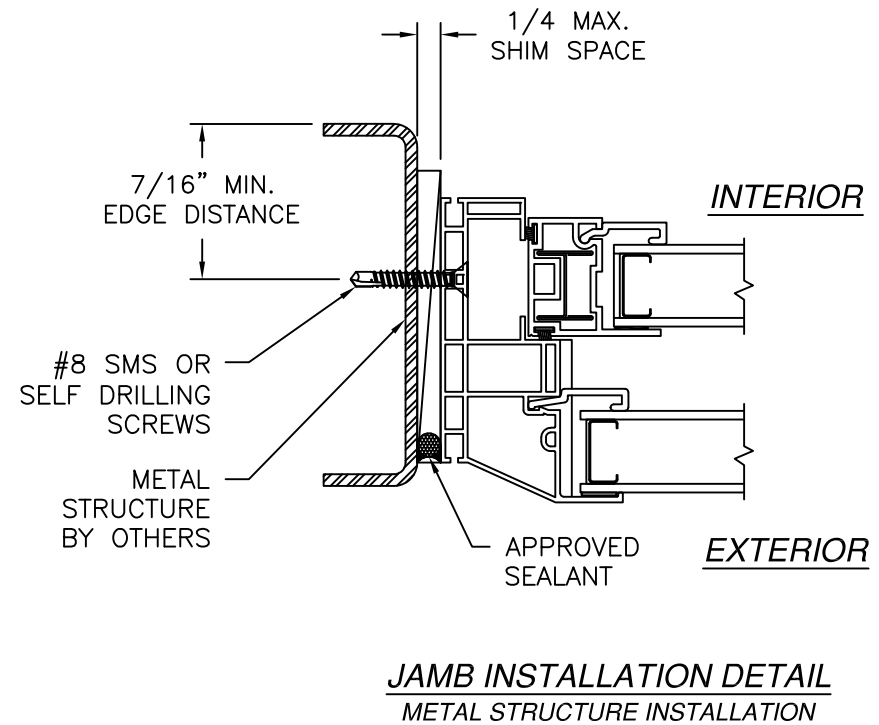
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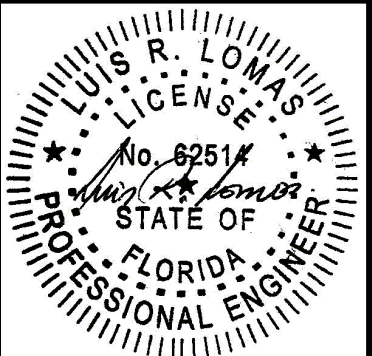


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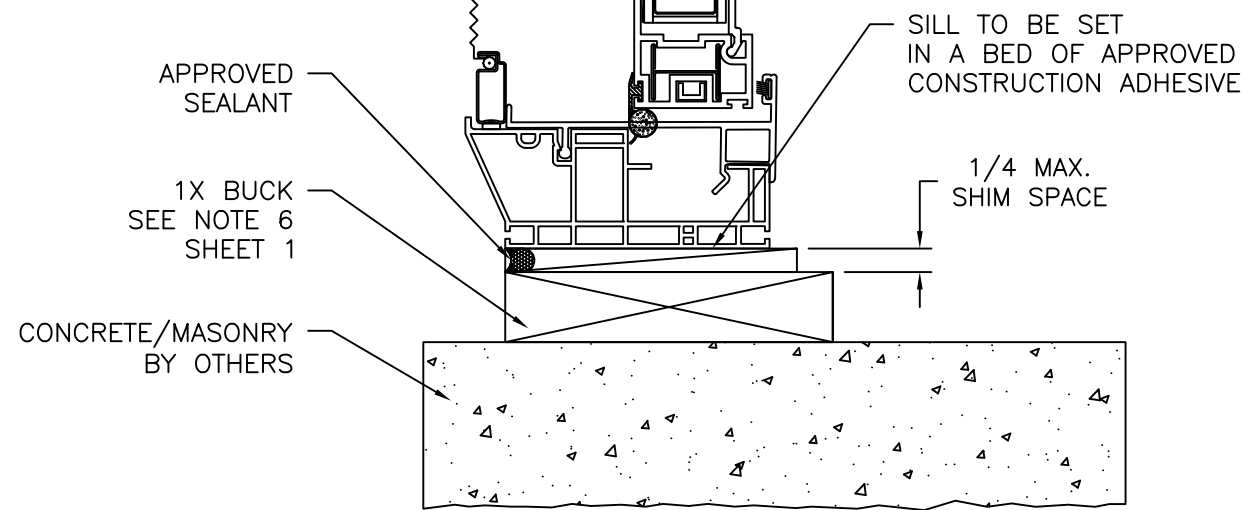
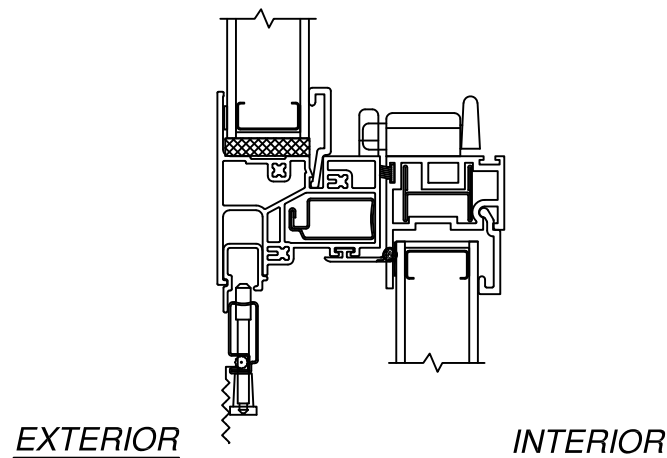
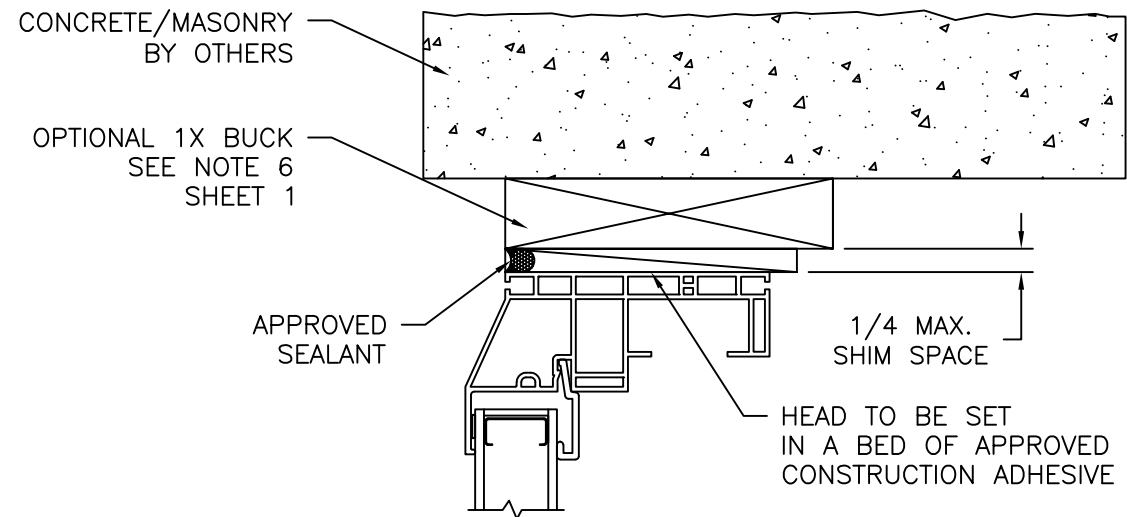
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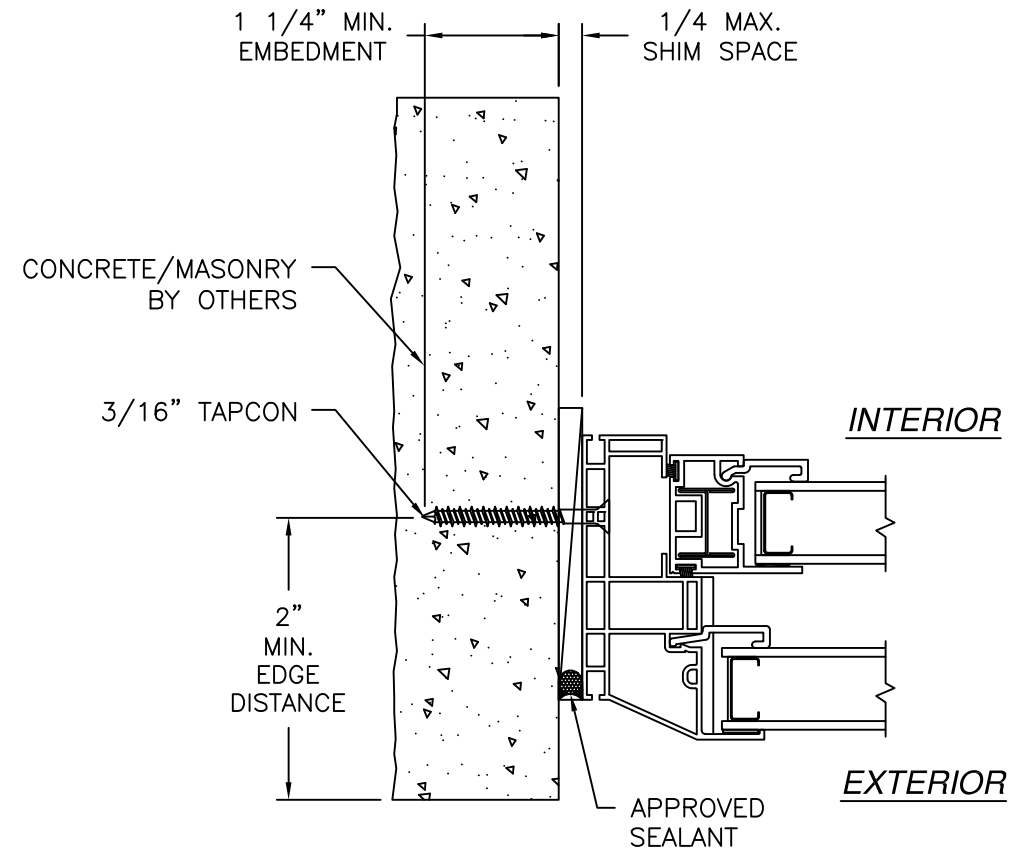


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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL

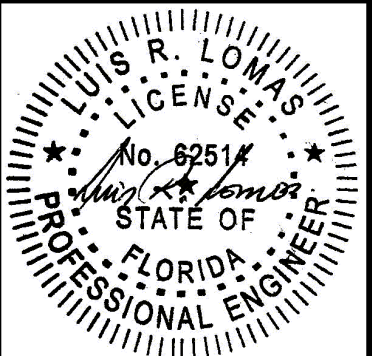


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

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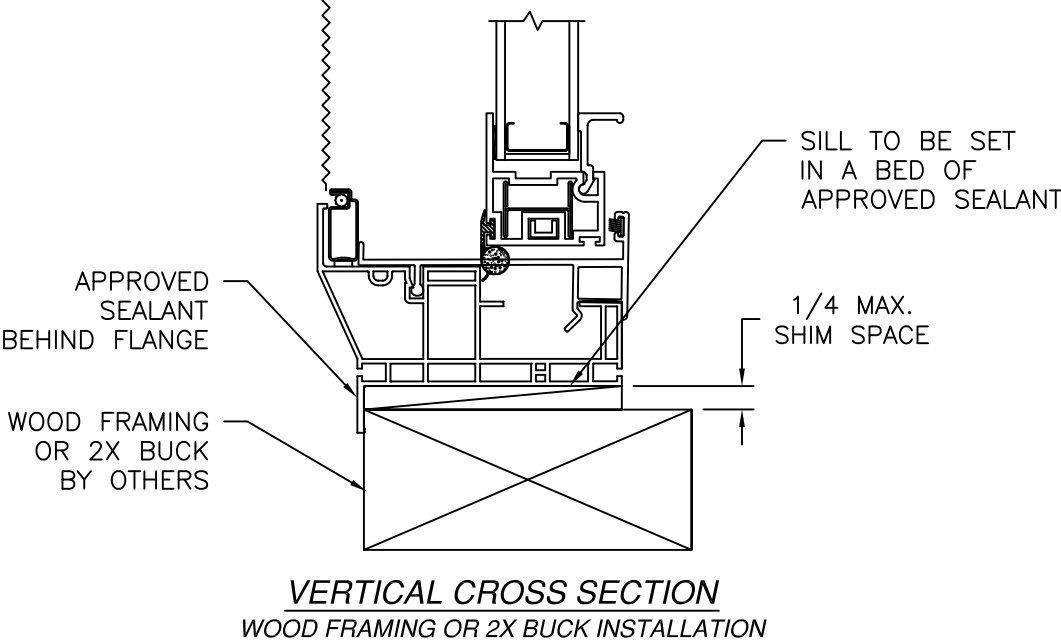
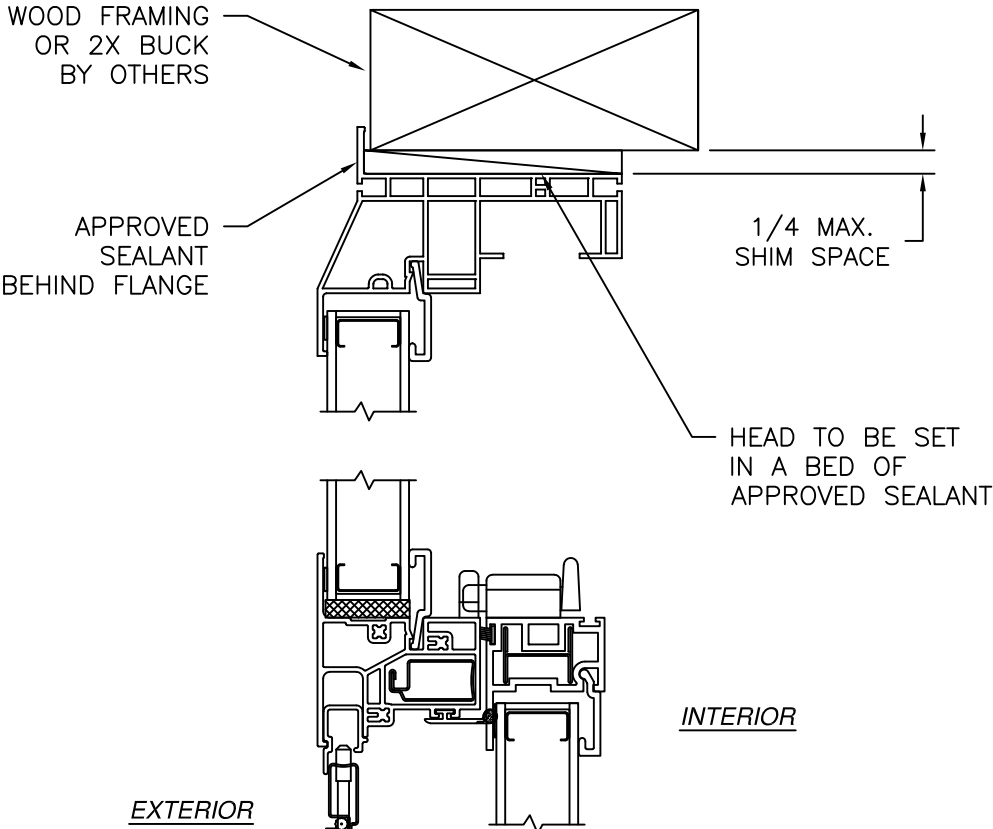
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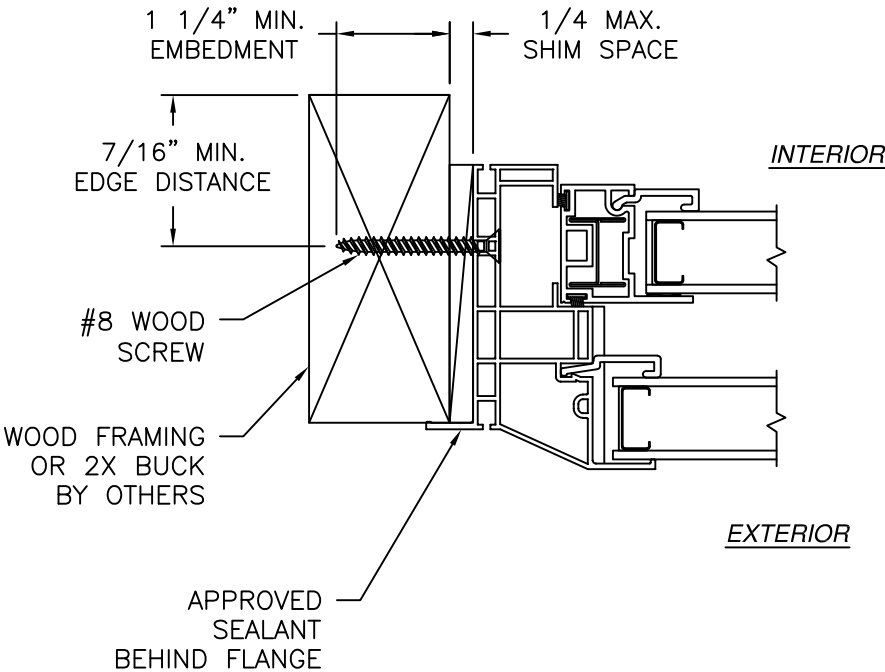


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

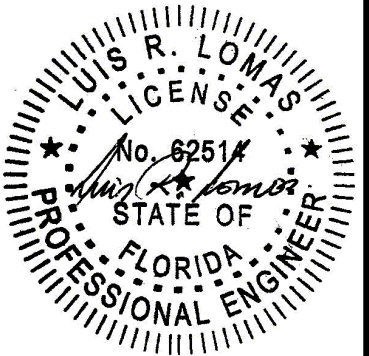


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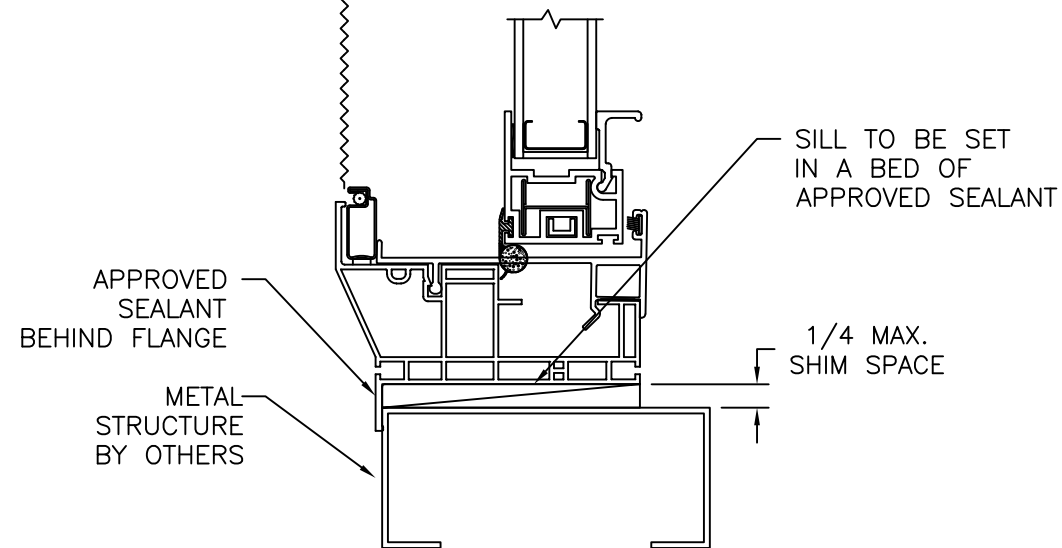
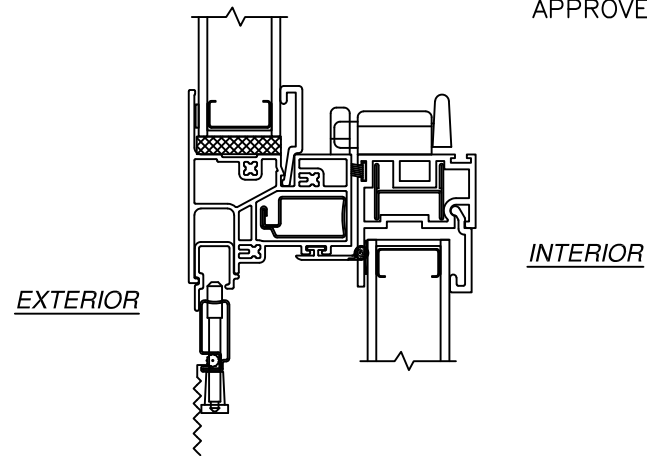
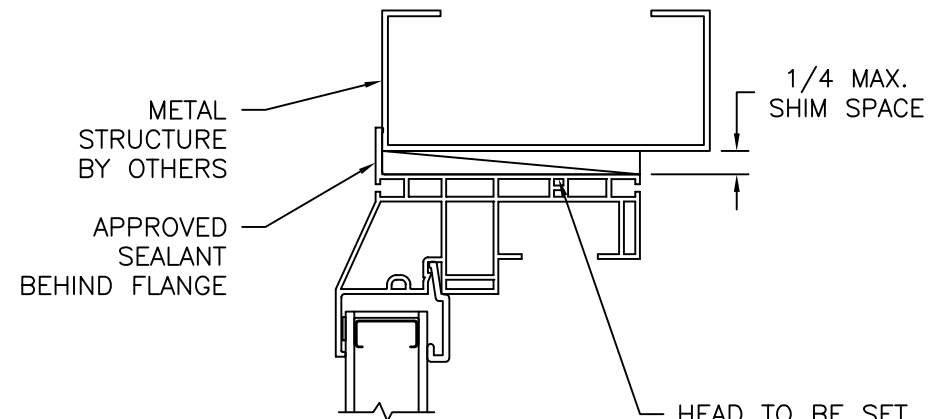
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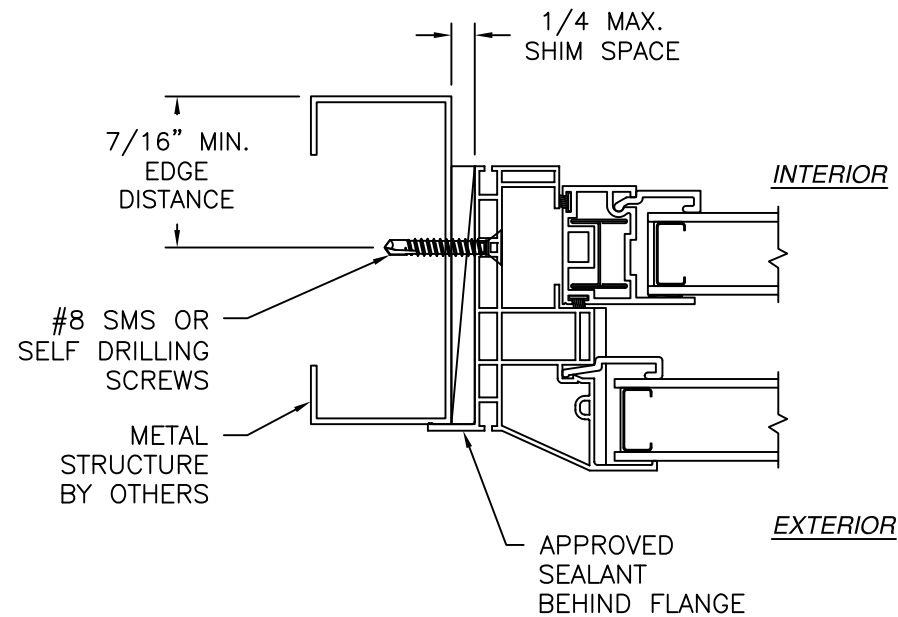


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



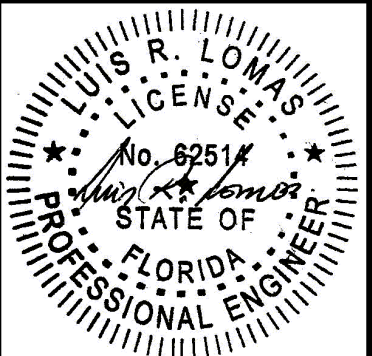
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METAL STRUCTURE INSTALLATION

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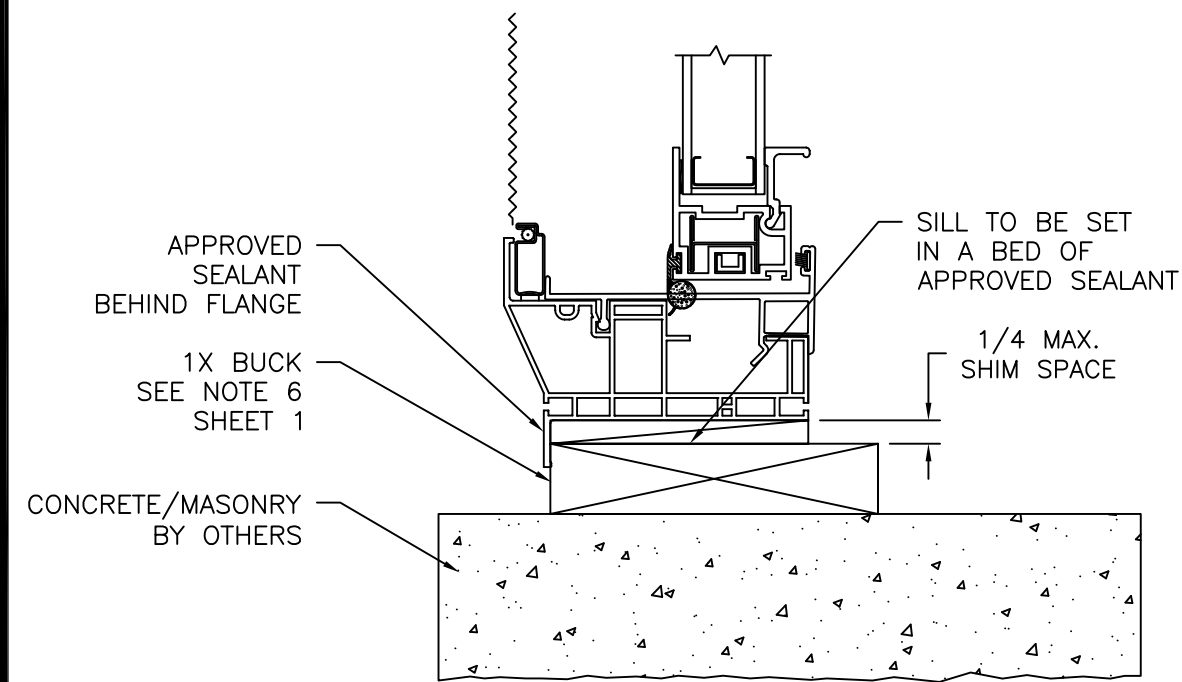
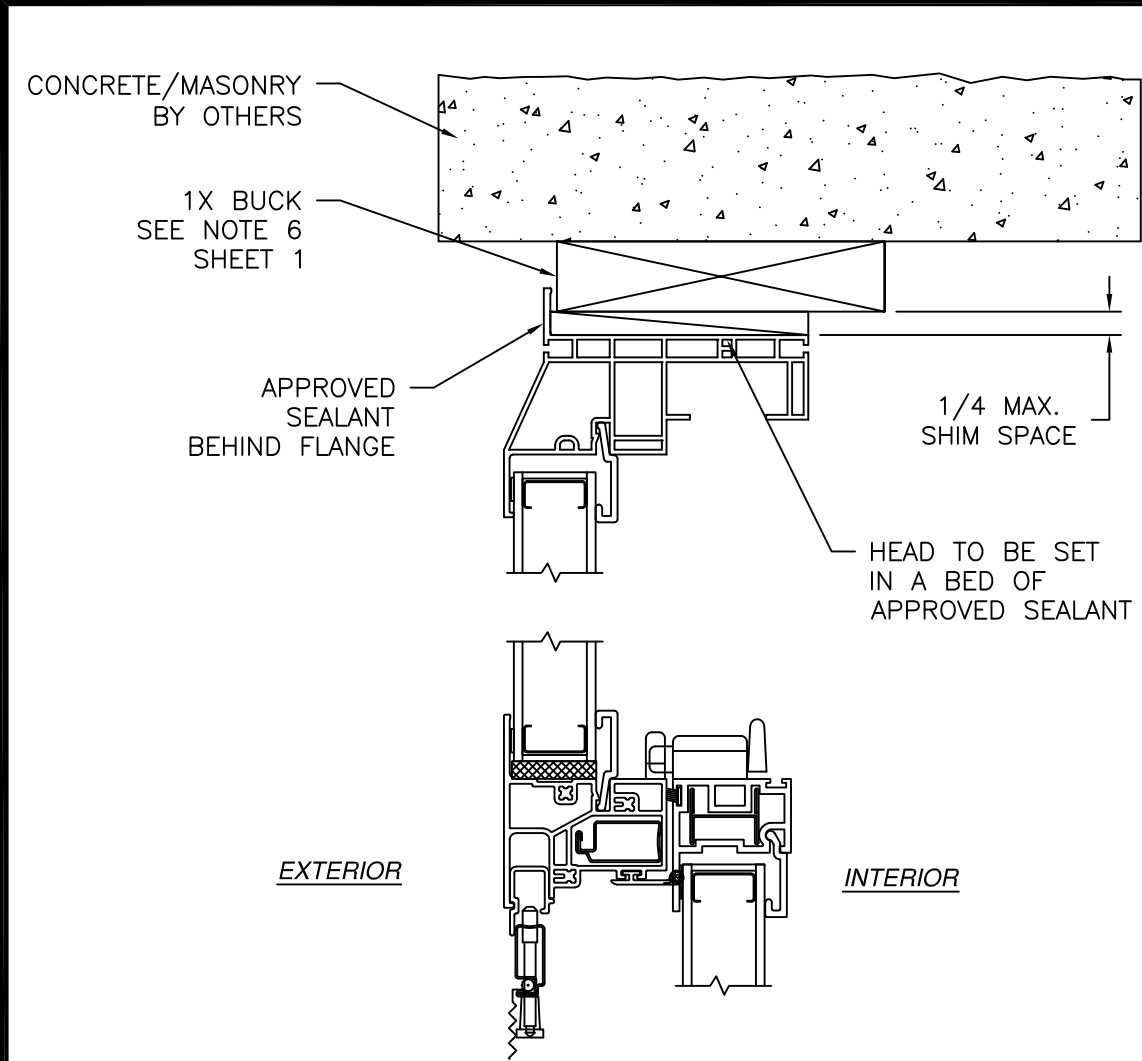
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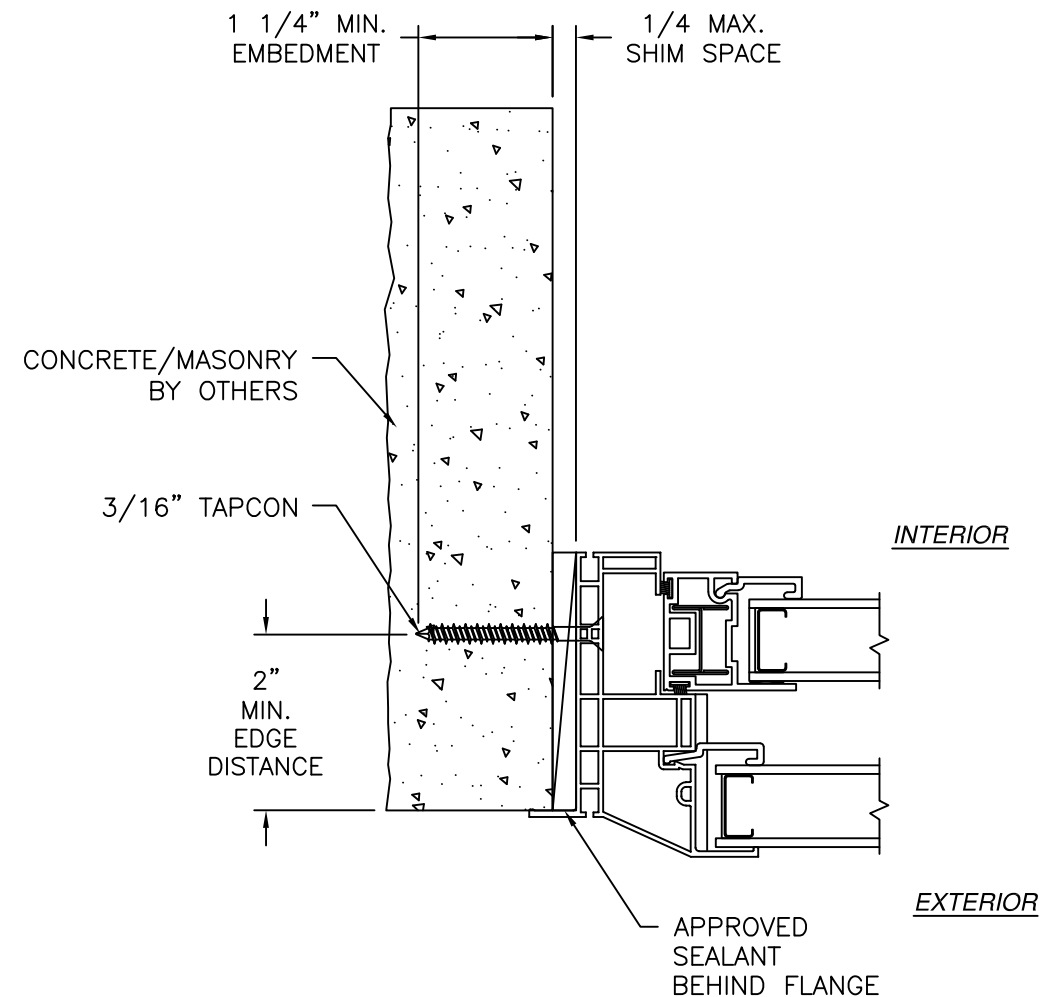
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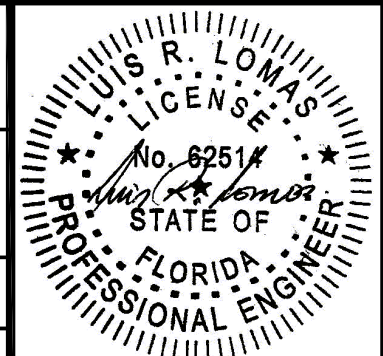
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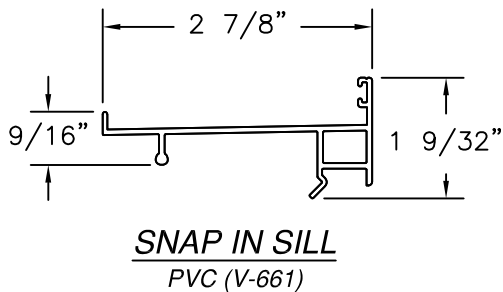
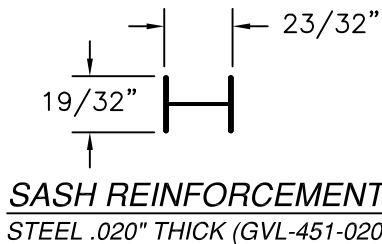
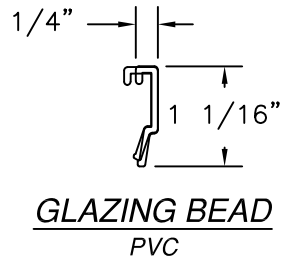
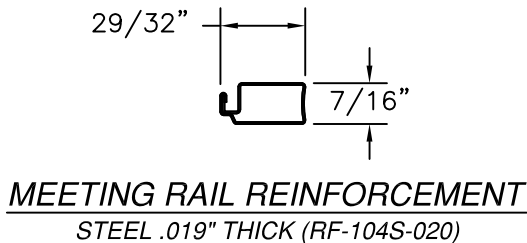
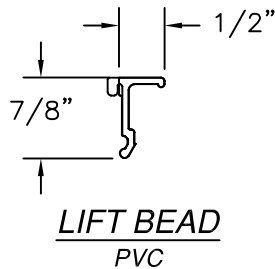
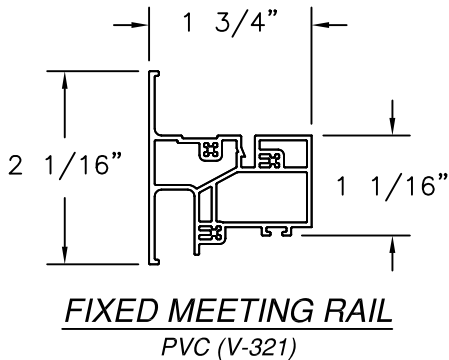
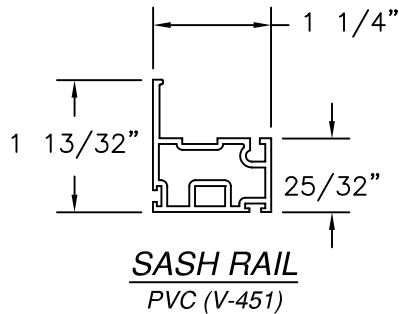
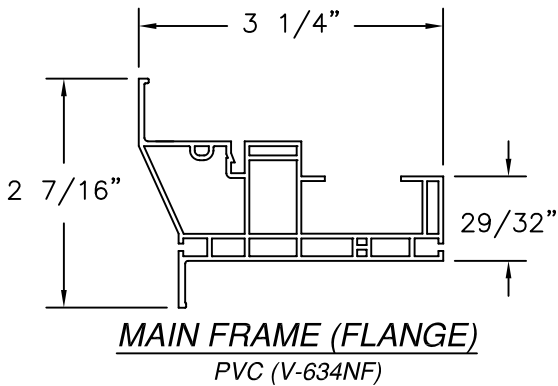
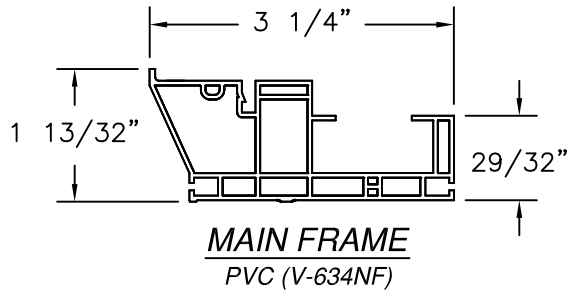
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SERIES 3540 FINLESS PVC SH WINDOW STEEL REINFORCED - NON-IMPACT 52" X 62" INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02269	REV C
SCALE NTS	DATE 01/09/14	SHEET 8 OF 9
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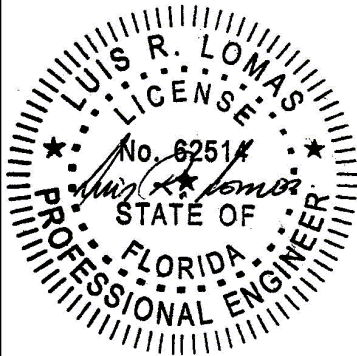
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