

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	08/24/2023	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
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" 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. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION 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".
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. FRAME MATERIAL: EXTRUDED RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 17 FOR GLASS DETAILS. FOR UNITS INSTALLED 30FT OR MORE ABOVE GROUND LEVEL GLAZING B MUST BE USED.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING USE ROOFING NAIL WITH SUFFICIENT LENGTH TO ACHIEVE A 2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING THROUGH FIN 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 FIN 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. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. 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.
18. FOR ANCHORING THROUGH FRAME 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.
19. ALL FASTENERS TO BE CORROSION RESISTANT.
20. 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:
 - 20.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 20.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 20.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - 20.4. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM

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17	COMPONENTS

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
NOTES

DRAWN:
R.L.

DWG NO.
08-03556

REV
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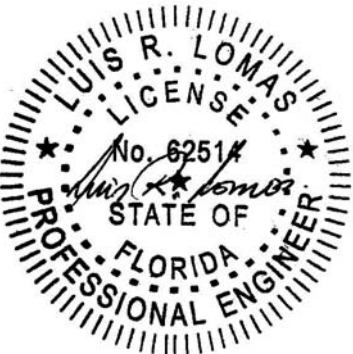
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DATE 05/04/2020

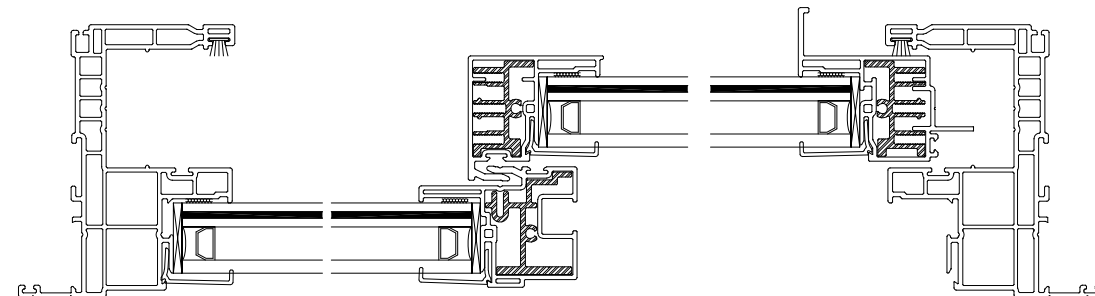
SHEET 1 OF 17

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208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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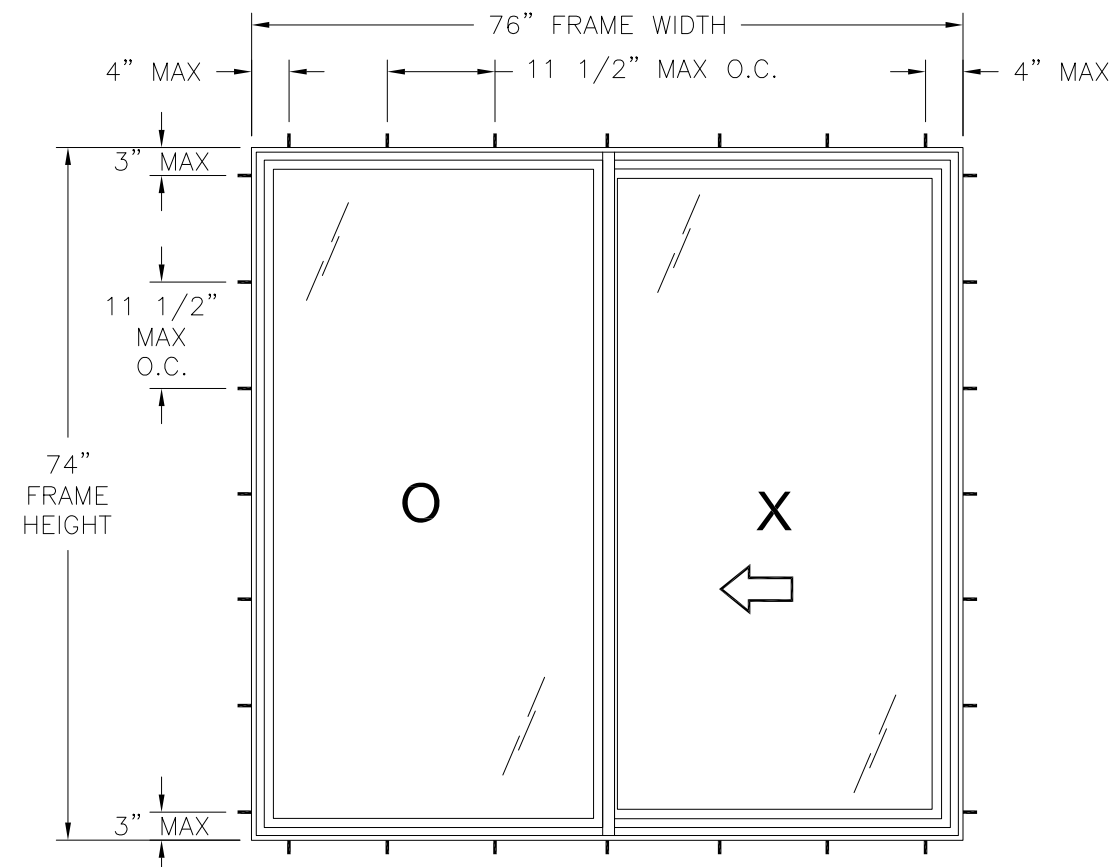


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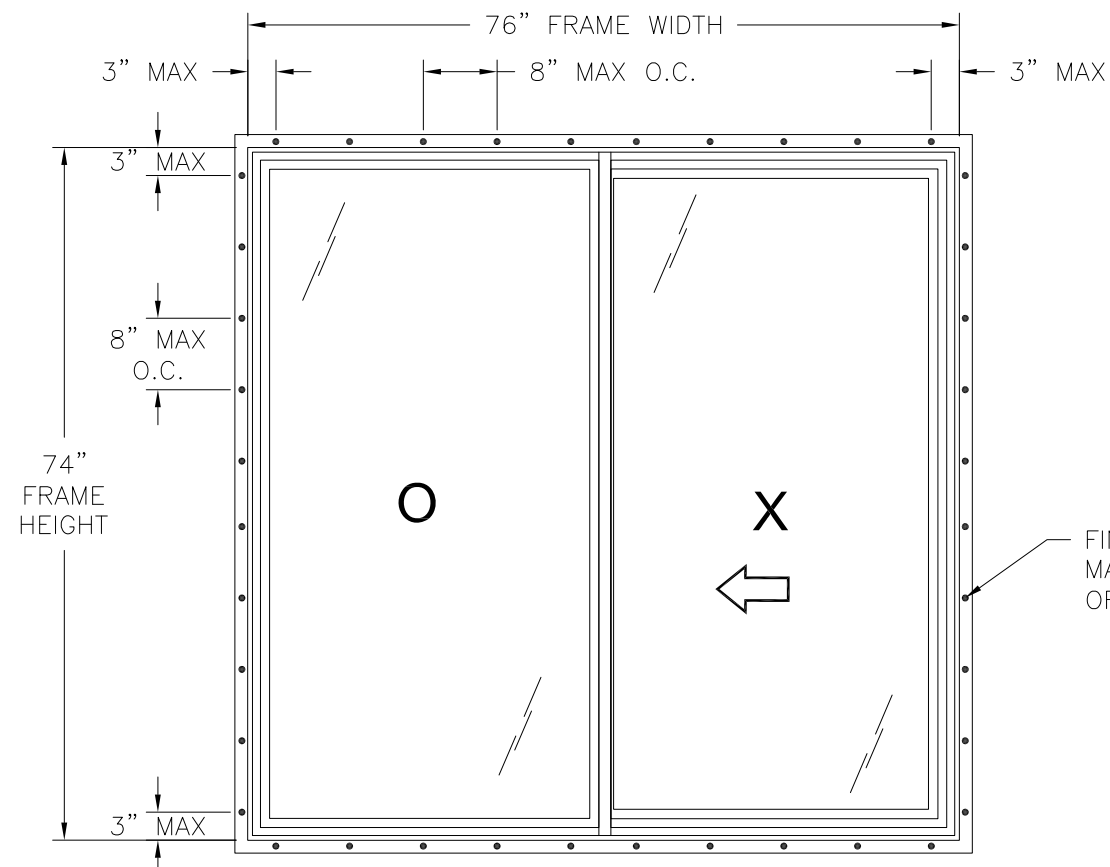


HORIZONTAL CROSS SECTION
FOR REFERENCE ONLY, SEE SHEETS 5 - 16 FOR INSTALLATION DETAILS

REVISIONS			
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SERIES 9050 HS WINDOW
EXTERIOR VIEW
FRAME INSTALLATION



SERIES 9050 HS WINDOW
EXTERIOR VIEW
FIN INSTALLATION

- NOTES:**
- SASH SIZE: 35 1/2" X 69 3/8"
 - D.L.O.: 33 13/16" X 67 3/8"

FIN ANCHORS
MAY BE ROOFING NAILS
OR #10 SCREWS

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4, AND HVHZ	

HARDWARE SCHEDULE	
A.	(2) TANDEM PLASTIC ROLLER AND HOUSING (11552) BY VISION AT ACTIVE BOTTOM RAIL
B.	(2) LOCK (A09200411) WITH KEEPER BY TRUTH HARDWARE 6 1/2" FROM EACH END OF LOCK RAIL
C.	(2) TILT LATCH (HTL-133-310RH/LH) BY DALWORTH AT TOP AND BOTTOM OF LOCK RAIL
D.	(1) SASH LOCK (9200) BY TRUTH HARDWARE AT SASH MEETING RAIL
E.	ALUMINUM REINFORCEMENT (T-11211) BY TIFTON AT TOP AND BOTTOM RAIL
F.	ALUMINUM REINFORCEMENT (T-11222) BY TIFTON AT ACTIVE MEETING & PULL RAIL
G.	ALUMINUM REINFORCEMENT (T-11333) BY TIFTON AT FIXED MEETING RAIL

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
76" x 74" ELEVATION

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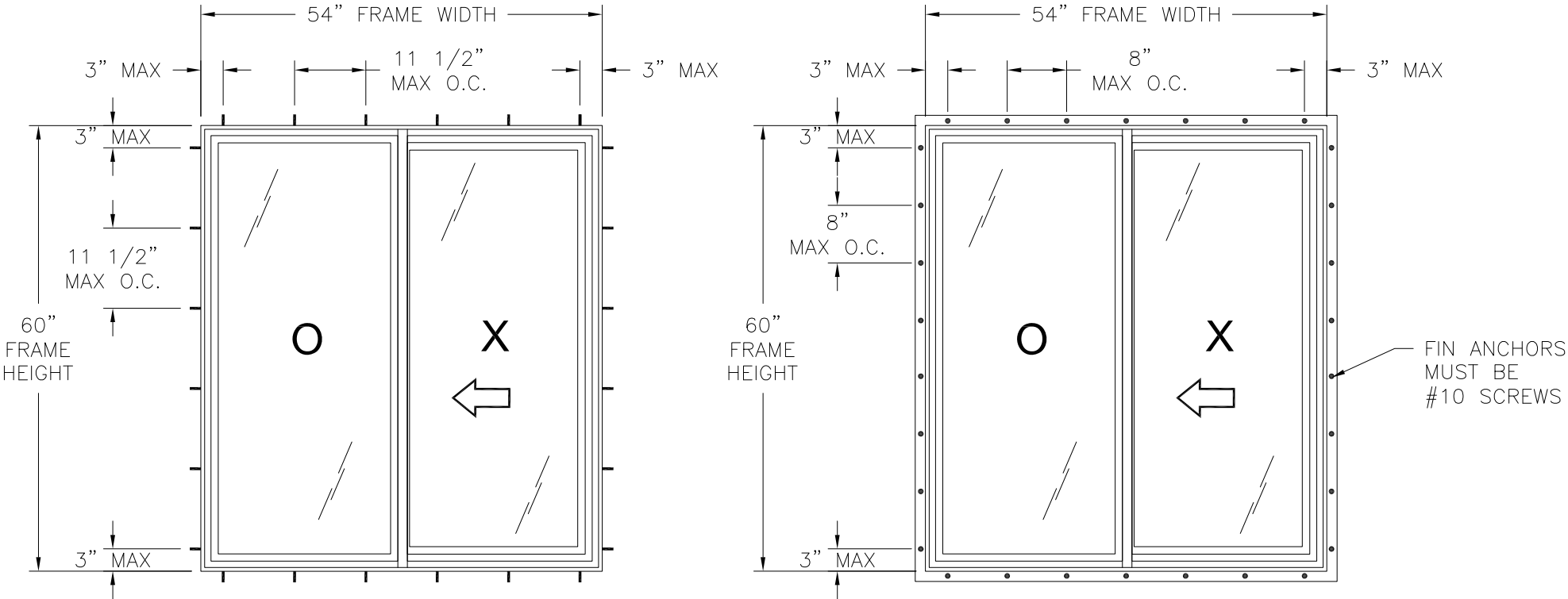
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NOTES:
1. SASH SIZE: 27 1/8" X 56 1/2"
2. D.L.O.: 23" X 53 3/8"

DESIGN PRESSURE RATING	IMPACT RATING
± 70.0 PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

HARDWARE SCHEDULE	
A.	(2) TANDEM PLASTIC ROLLER AND HOUSING (11552) BY VISION AT ACTIVE BOTTOM RAIL
B.	(2) LOCK (A09200411) WITH KEEPER BY TRUTH HARDWARE 6 1/2" FROM EACH END OF LOCK RAIL
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G.	ALUMINUM REINFORCEMENT (T-11333) BY TIFTON AT FIXED MEETING RAIL

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SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
54" X 60" ELEVATION

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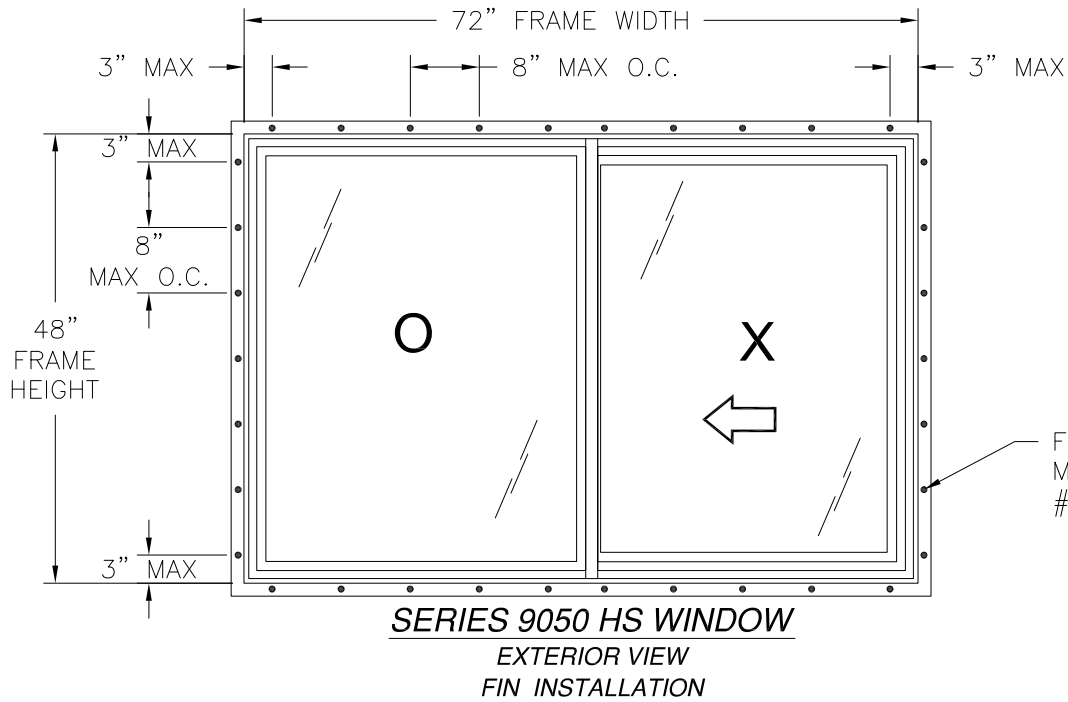
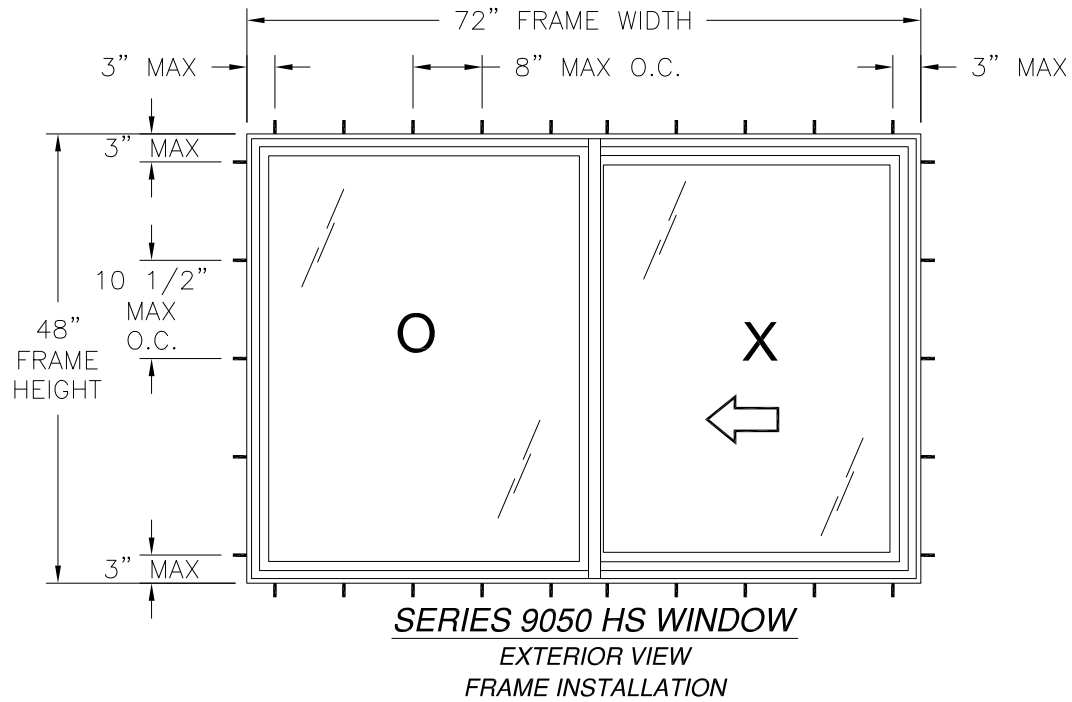
DATE 05/04/2020

SHEET 3 OF 17

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- NOTES:
- SASH SIZE: 36 1/4" X 44 1/2"
 - D.L.O.: 32" X 41 3/8"

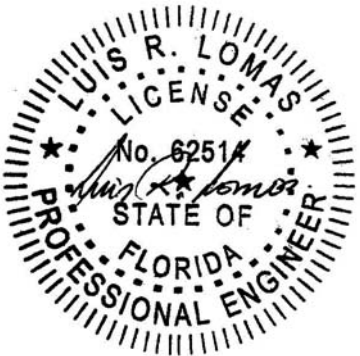
DESIGN PRESSURE RATING	IMPACT RATING
± 120.0 PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

HARDWARE SCHEDULE	
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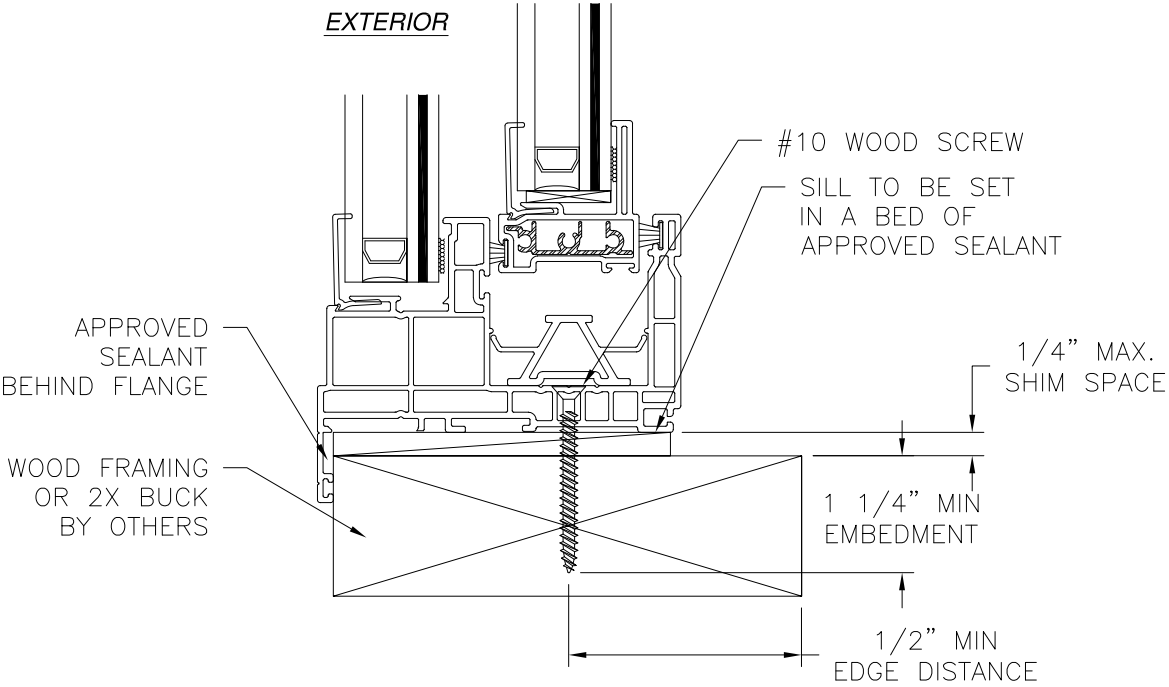
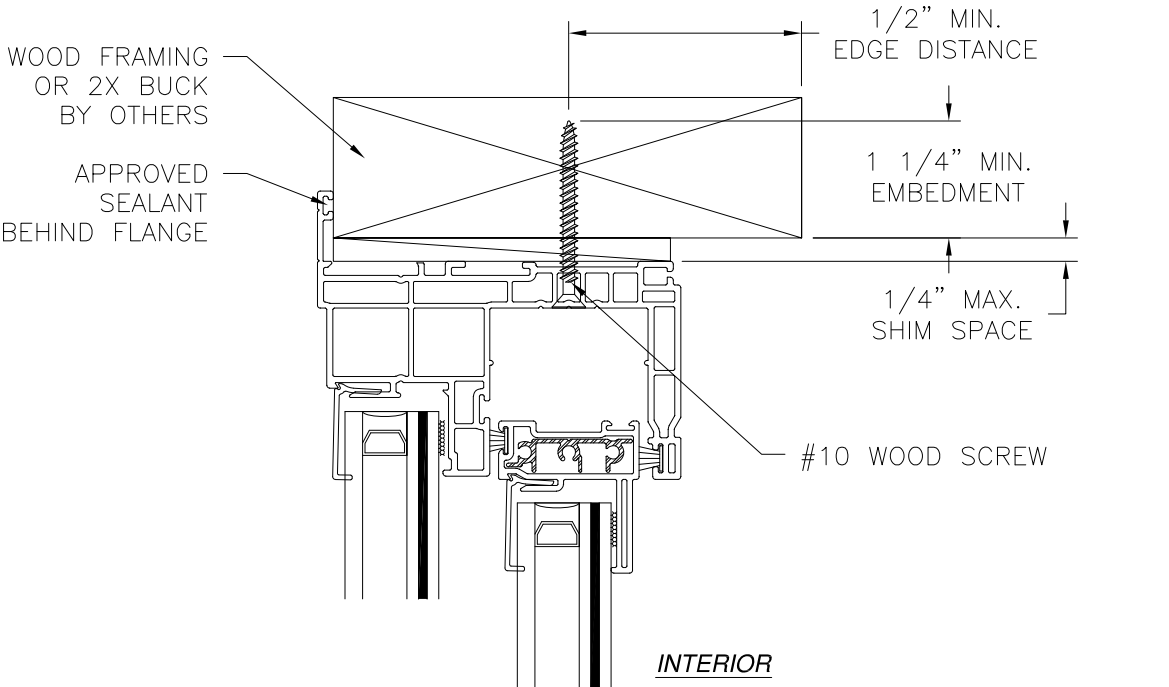
SHWINCO ARCHITECTURAL PRODUCTS, LLC 171 JET SERVICES WAY DOTHAN, AL 36303		
SERIES 9050 HS WINDOW IMPACT HVHZ 72" X 48" ELEVATION		
DRAWN: R.L.	DWG NO. 08-03556	REV A
SCALE NTS	DATE 05/04/2020	SHEET 4 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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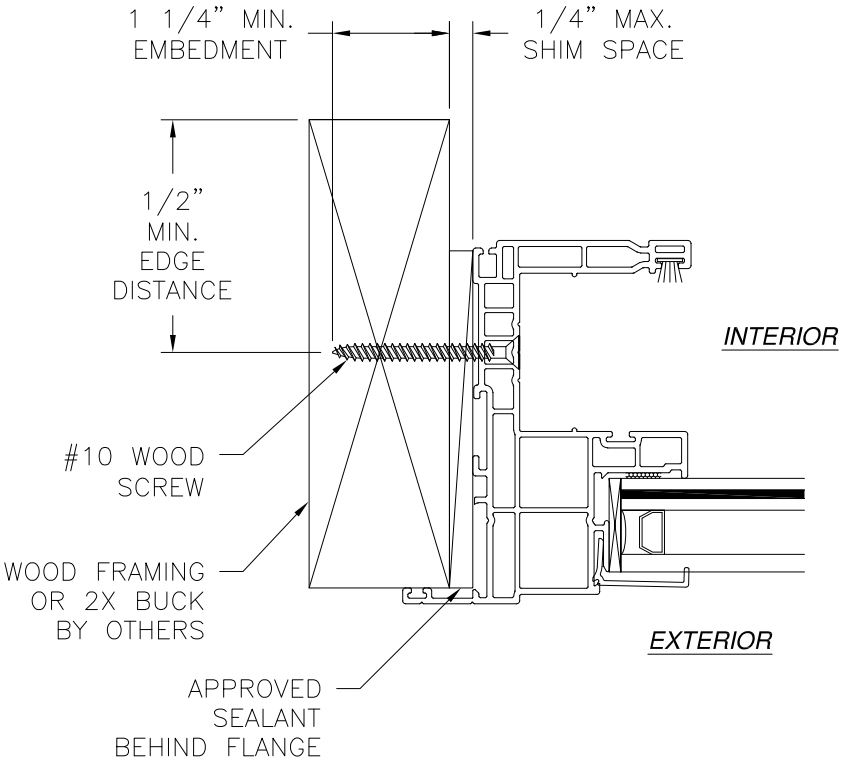


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



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
 3. WATER PROOFING IS INSTALLER'S RESPONSIBILITY AND MUST BE DONE PER FMA/AAMA/WDMA STANDARDS.

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
FLANGE INSTALLATION DETAILS

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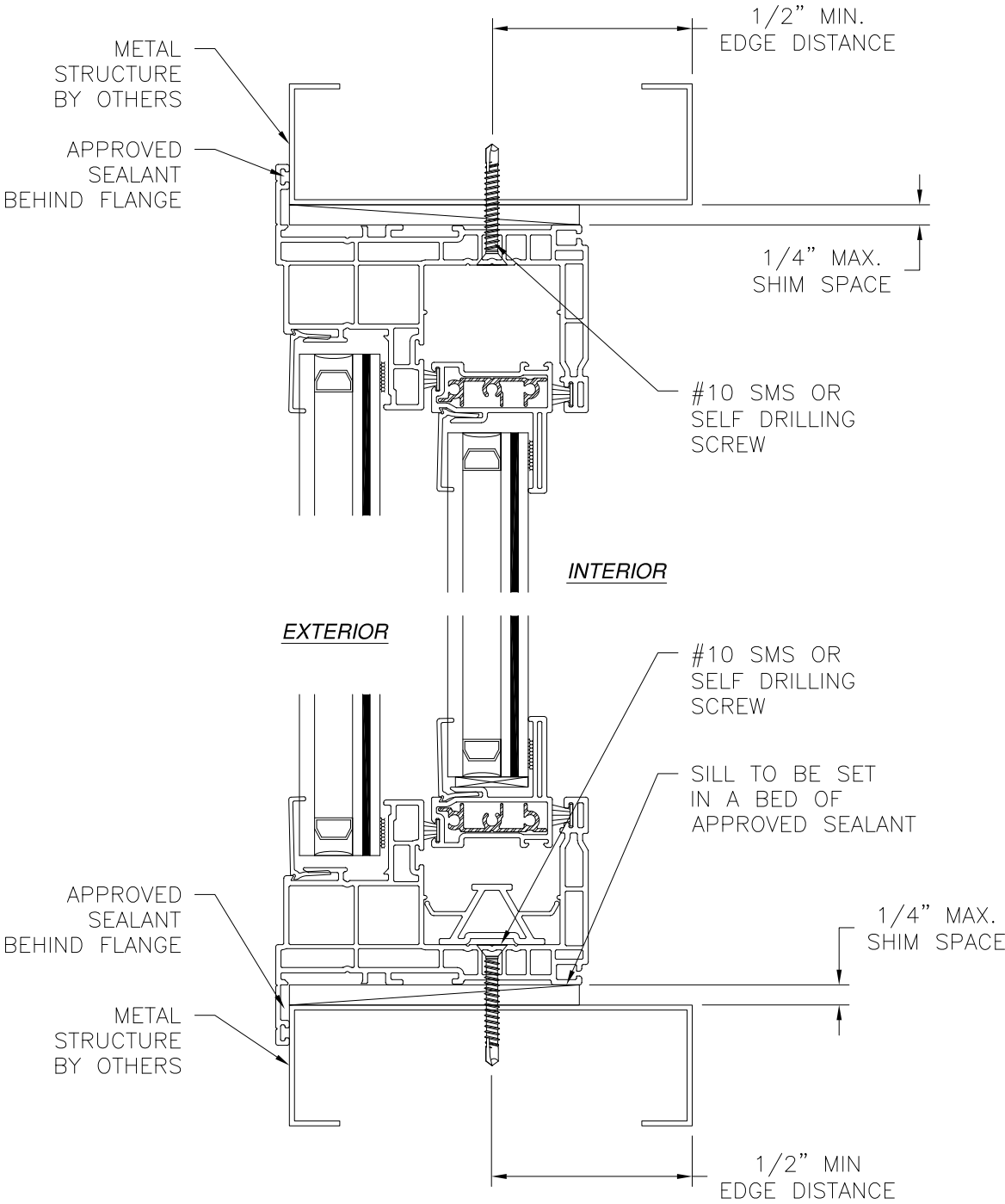
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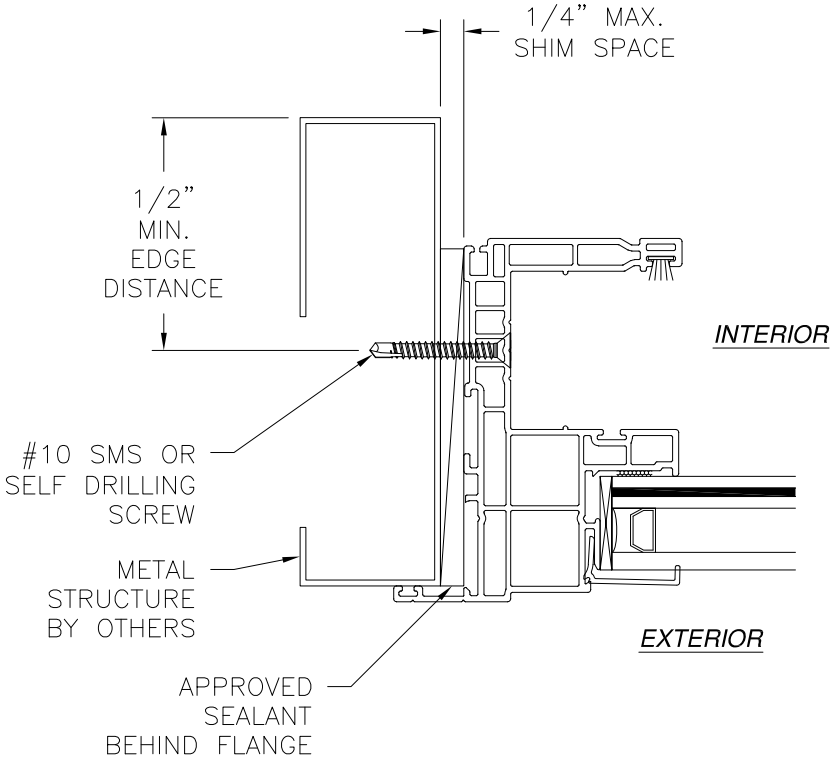


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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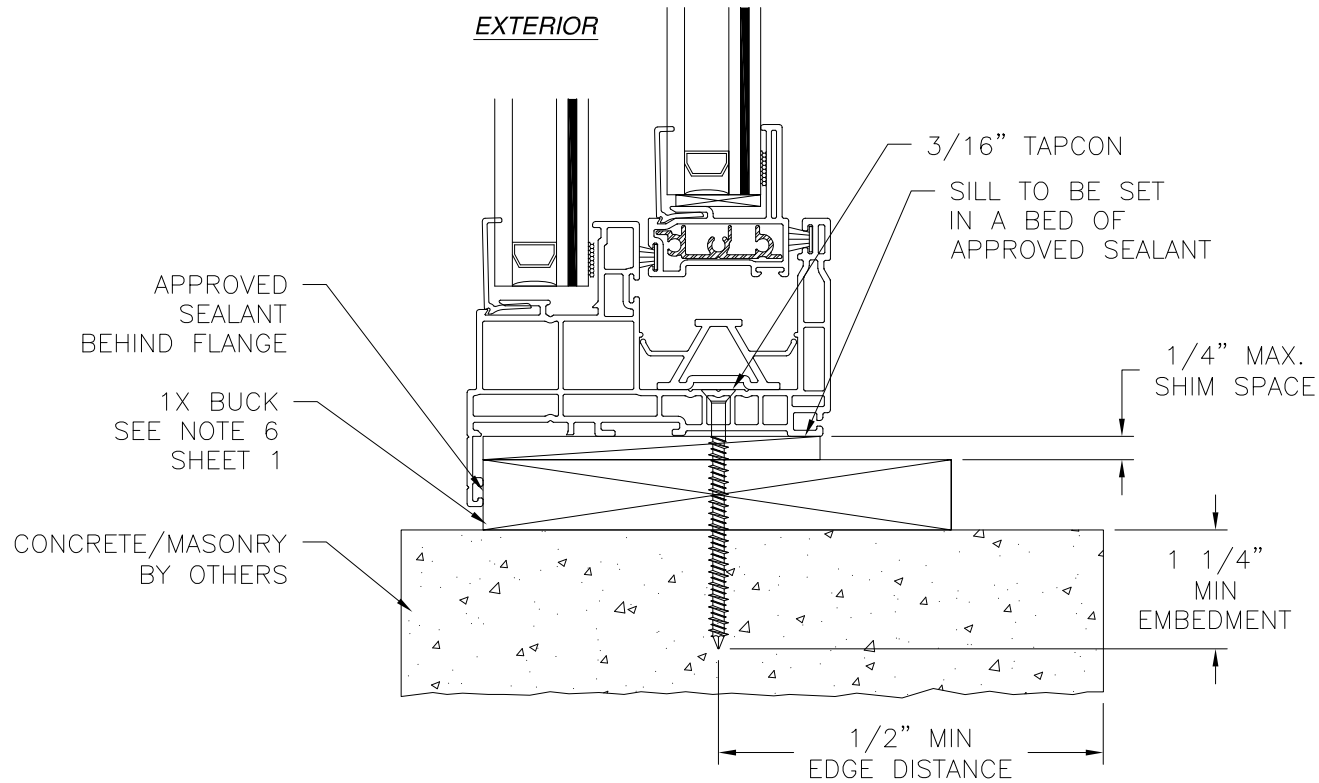
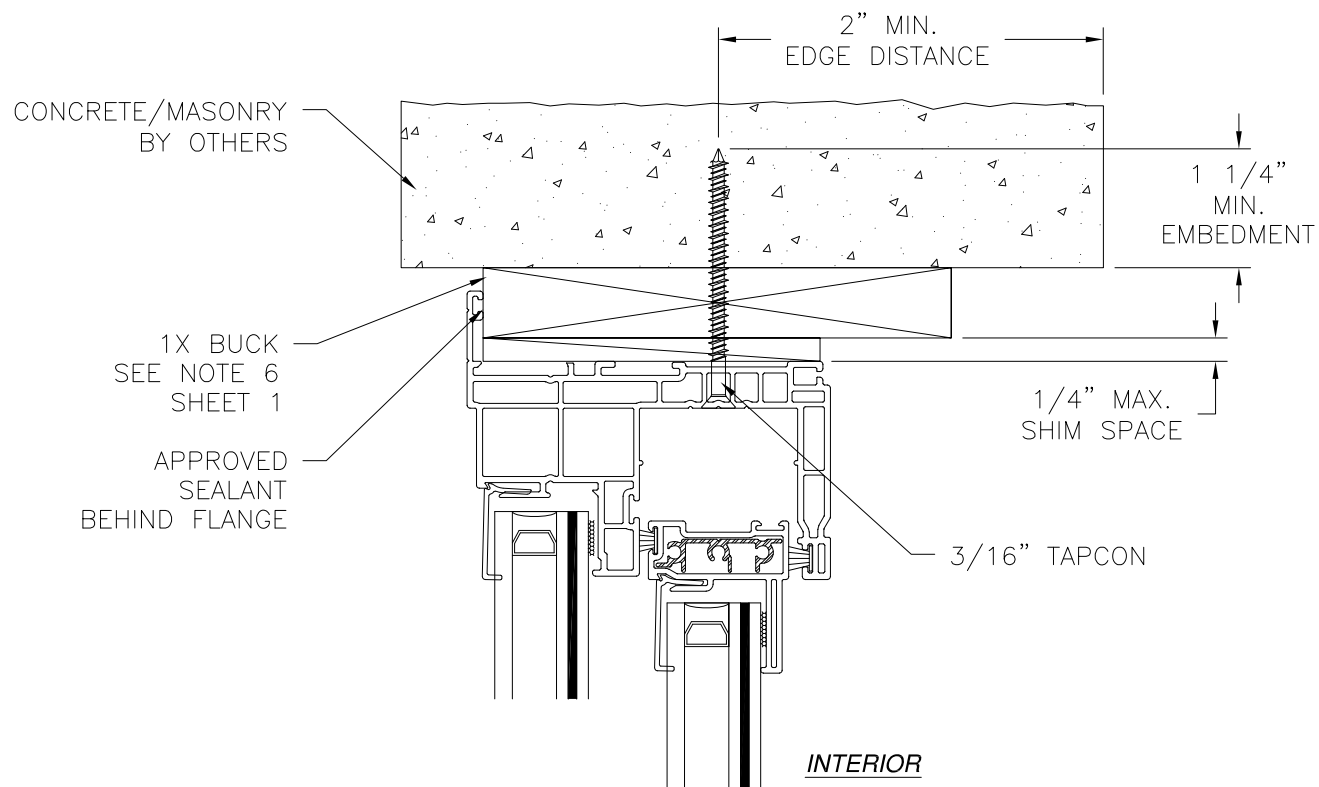
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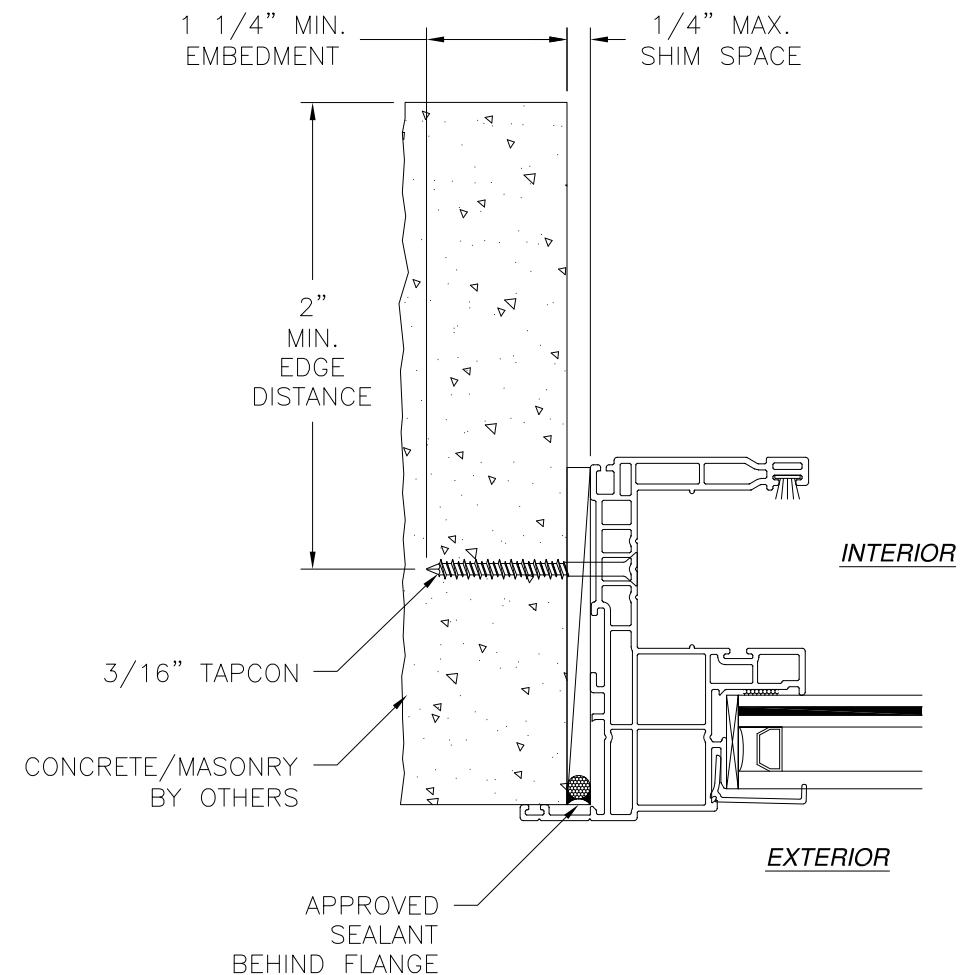


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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL

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

- NOTES:
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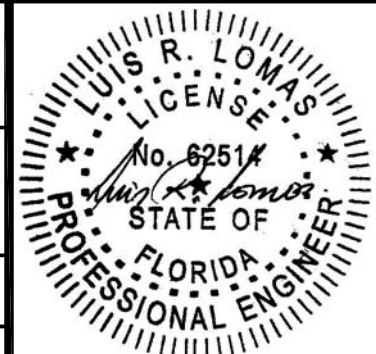
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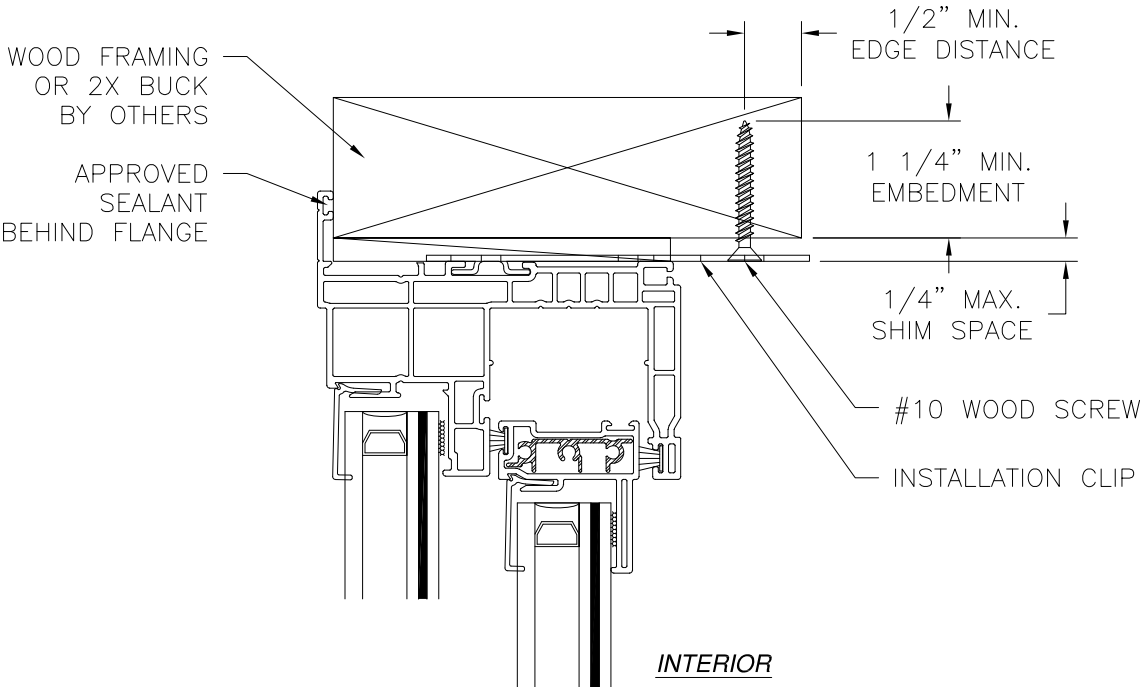
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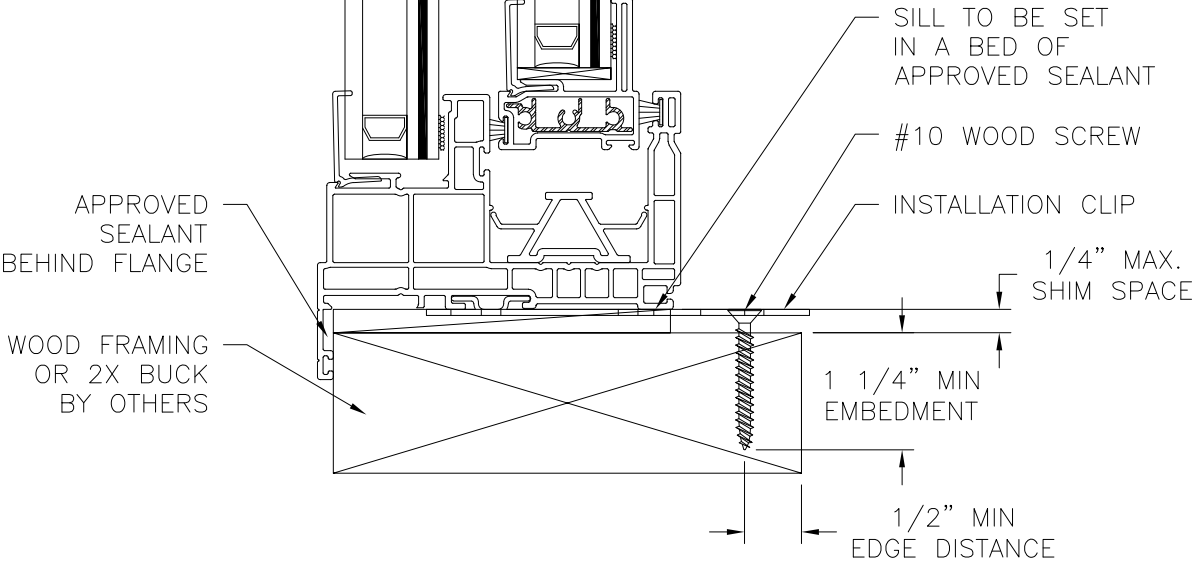


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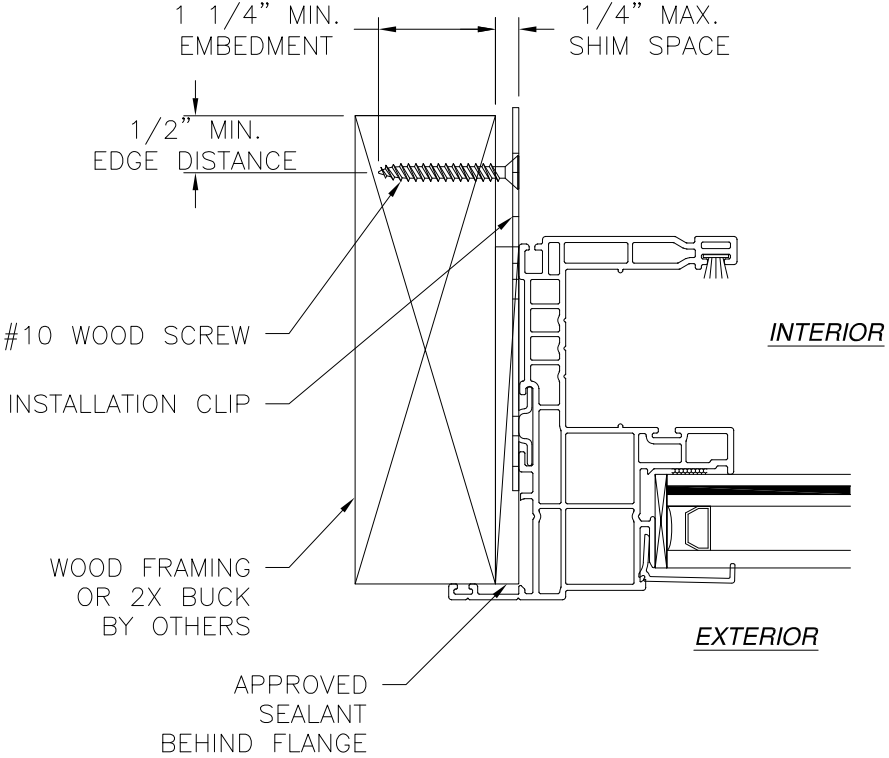
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EXTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
CLIP INSTALLATION DETAILS

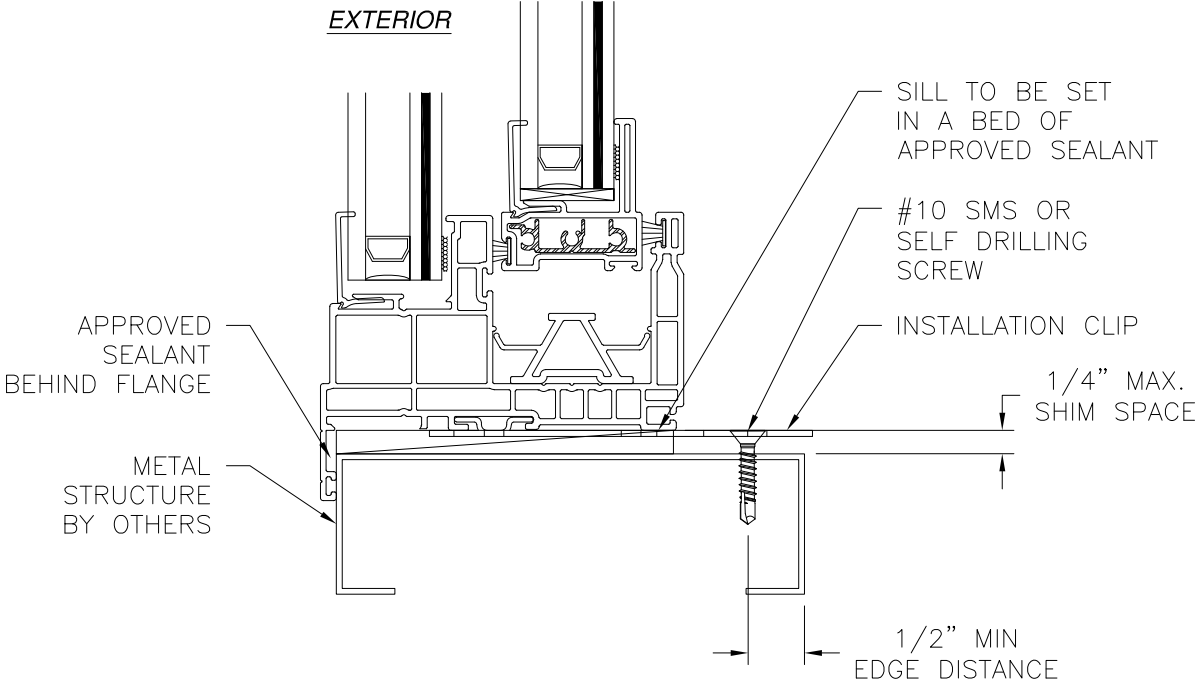
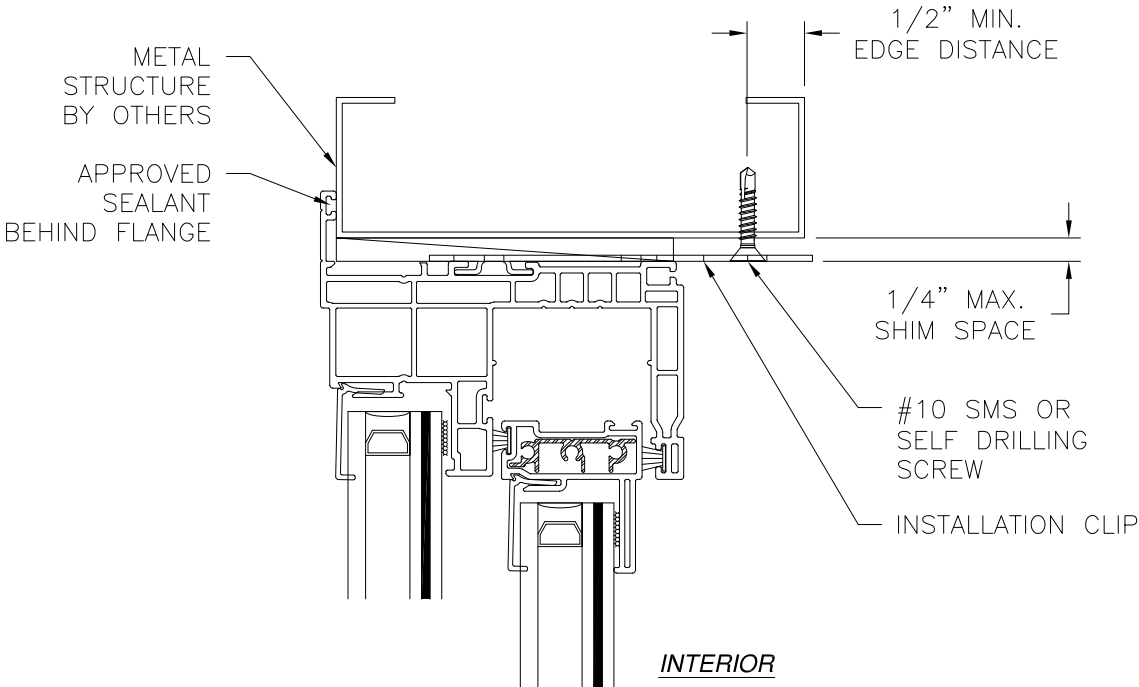
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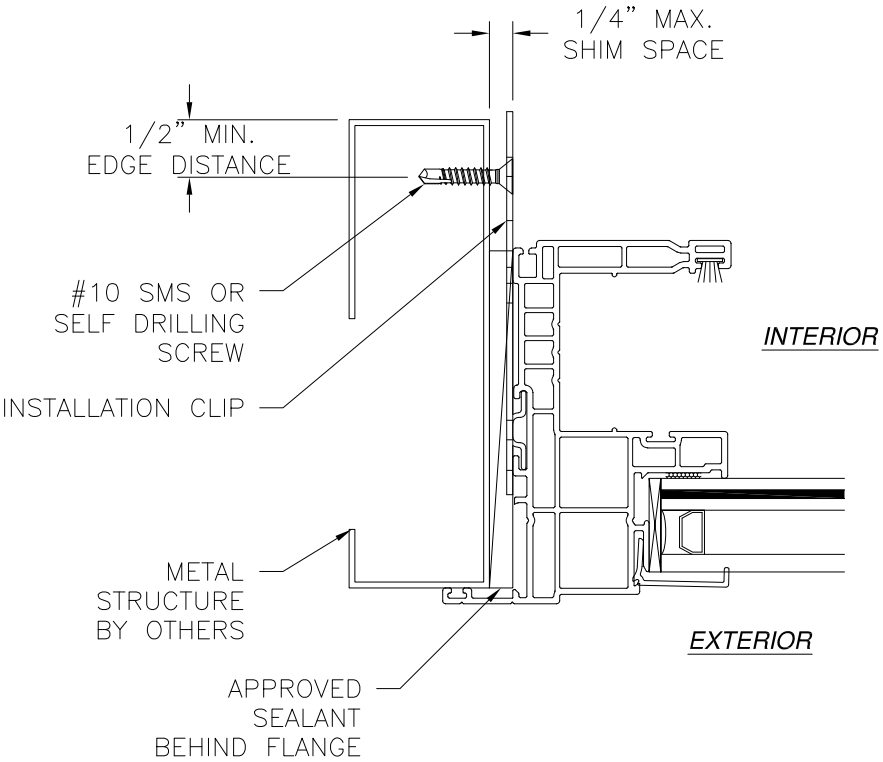


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



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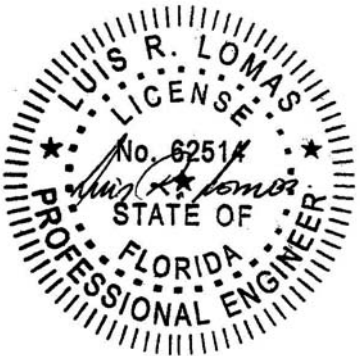
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CLIP INSTALLATION DETAILS

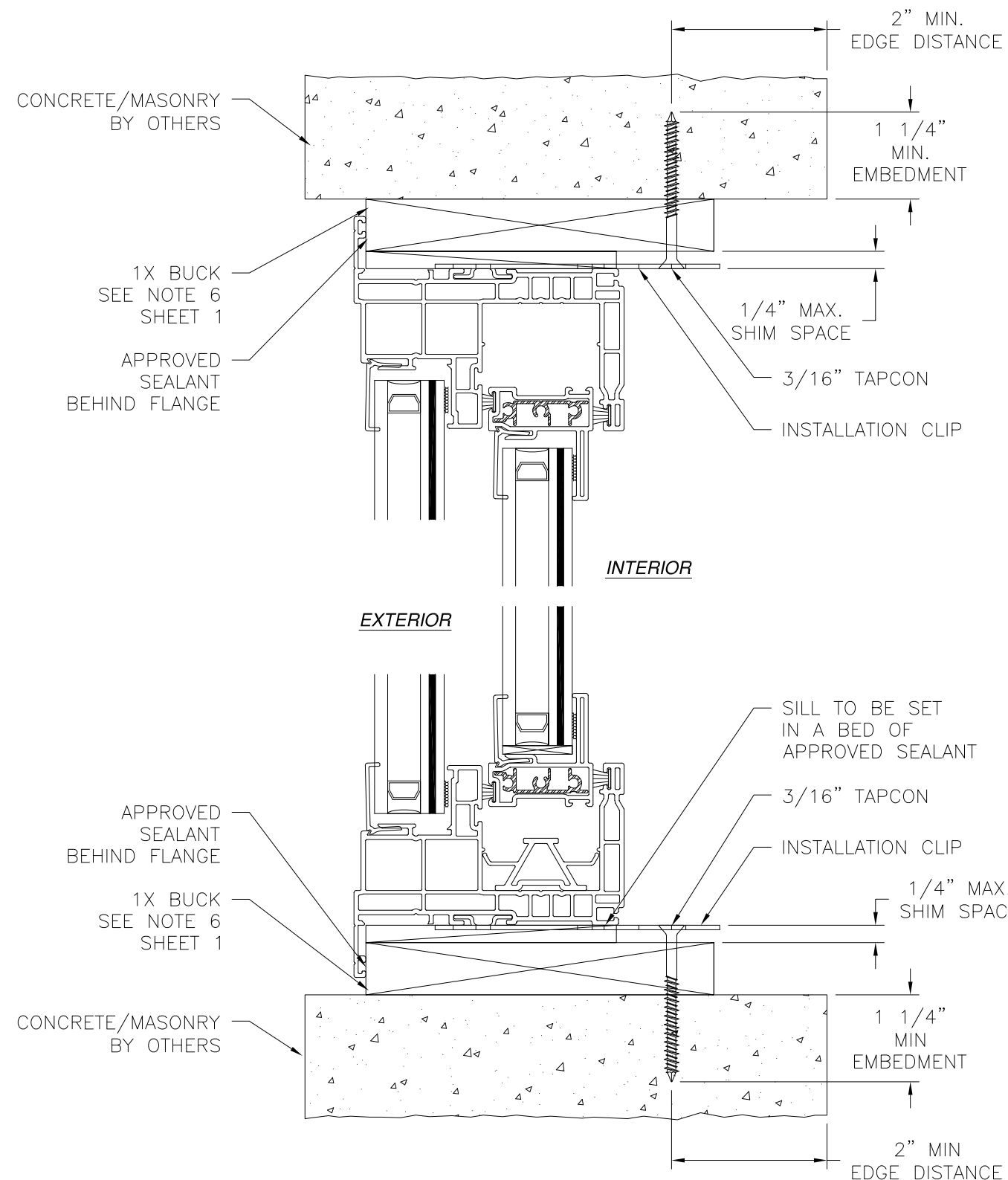
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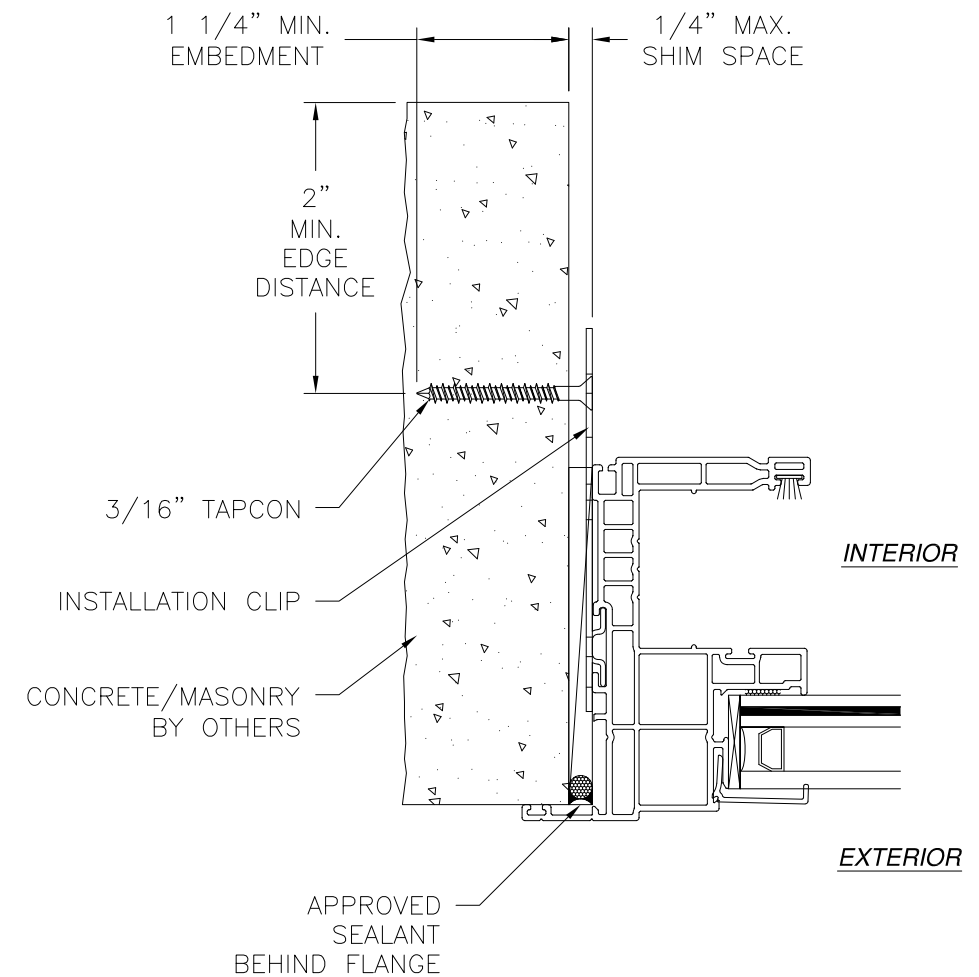
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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
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CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

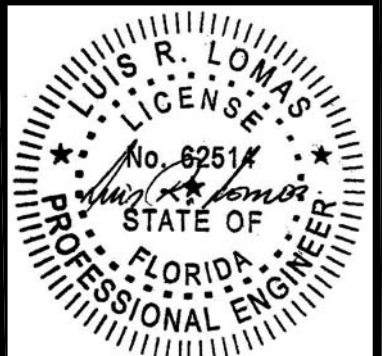
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IMPACT HVHZ
CLIP INSTALLATION DETAILS

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SCALE NTS	DATE 05/04/2020	SHEET 10 OF 17

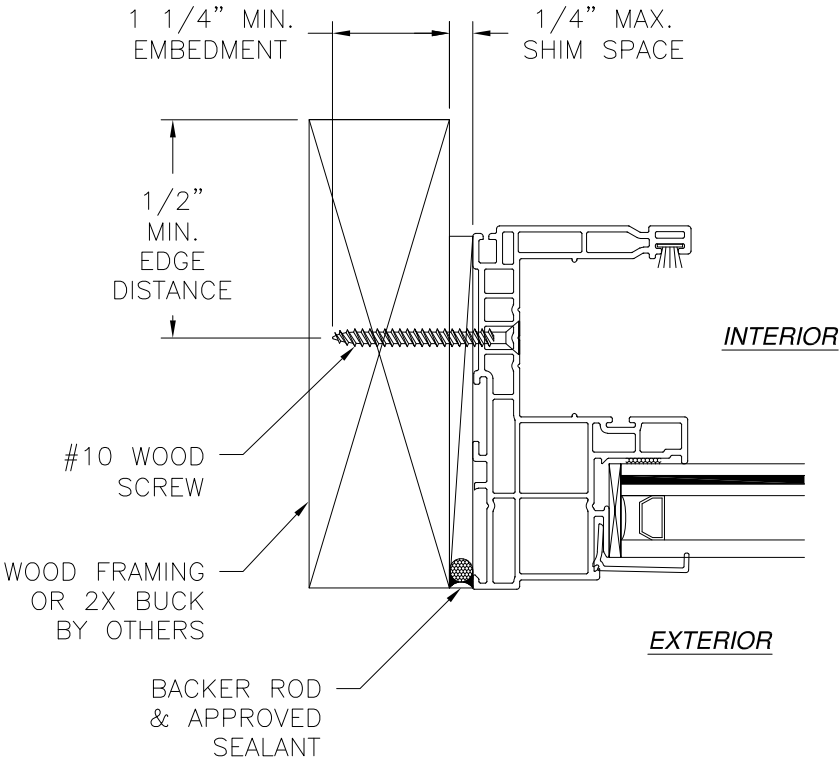
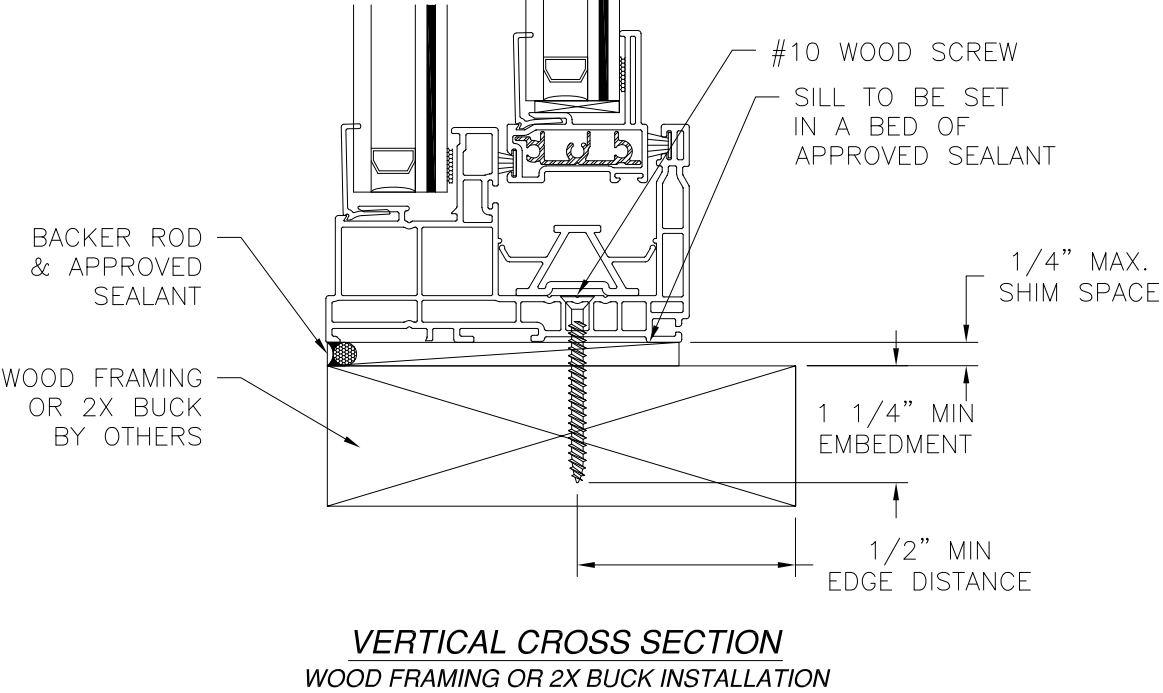
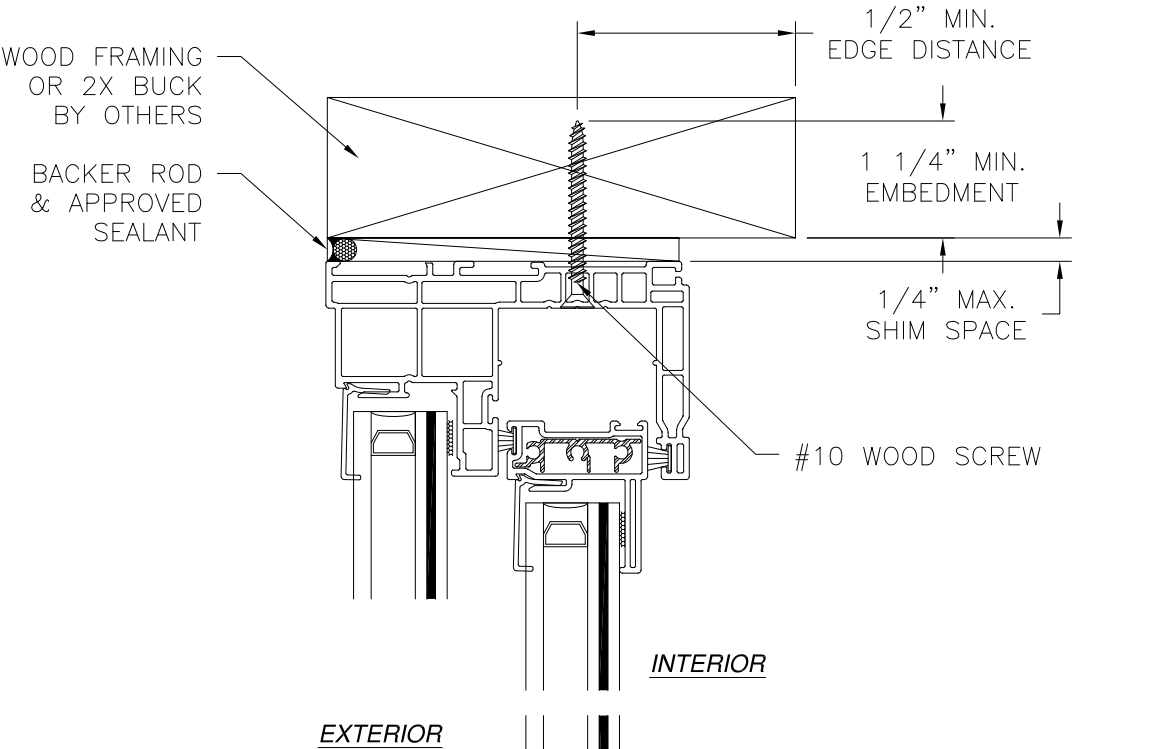
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/24/2023



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	08/24/2023	R.L.



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
 3. WATER PROOFING IS INSTALLER'S RESPONSIBILITY AND MUST BE DONE PER FMA/AAMA/WDMA STANDARDS.

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
BOX INSTALLATION DETAILS

DRAWN:
R.L.

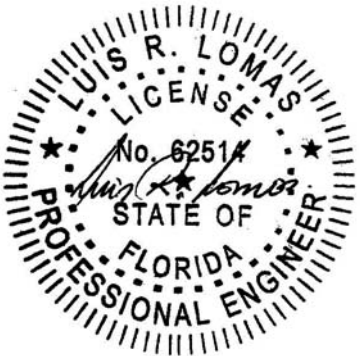
DWG NO.
08-03556

REV
A

SCALE NTS
DATE 05/04/2020
SHEET 11 OF 17

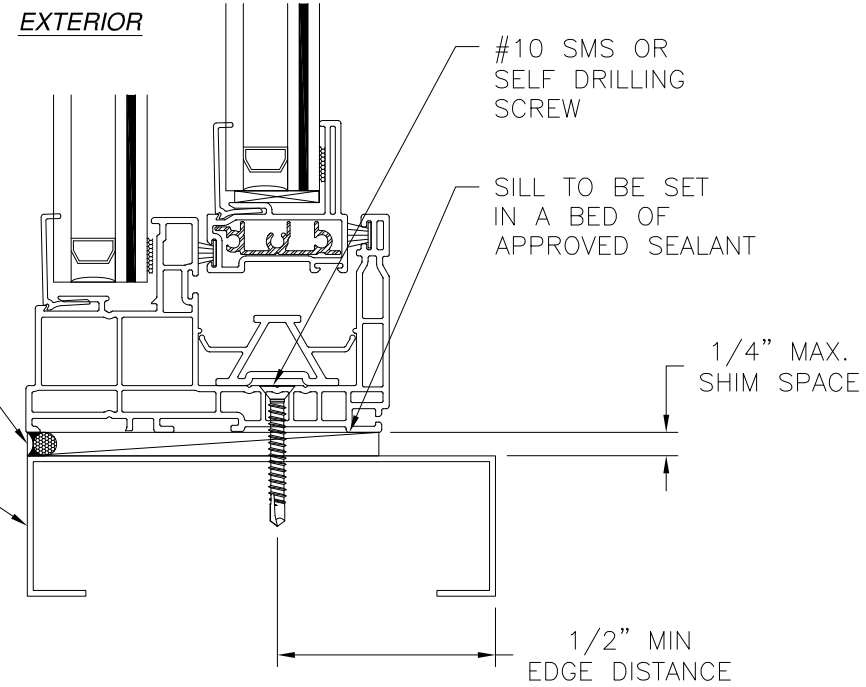
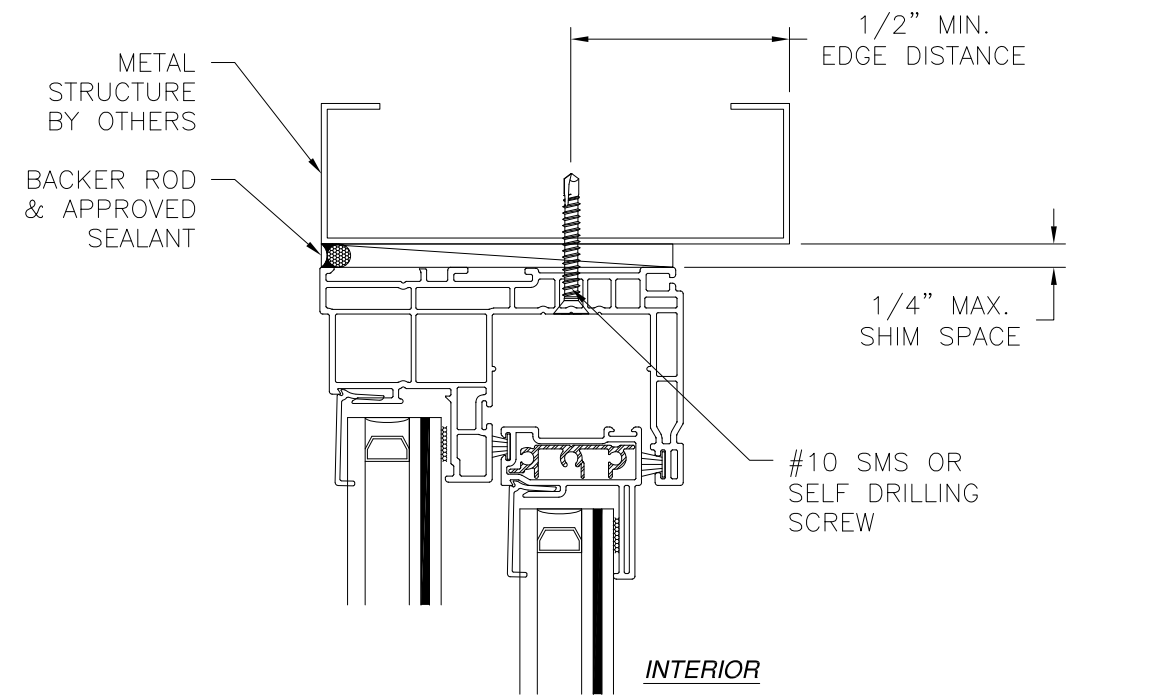
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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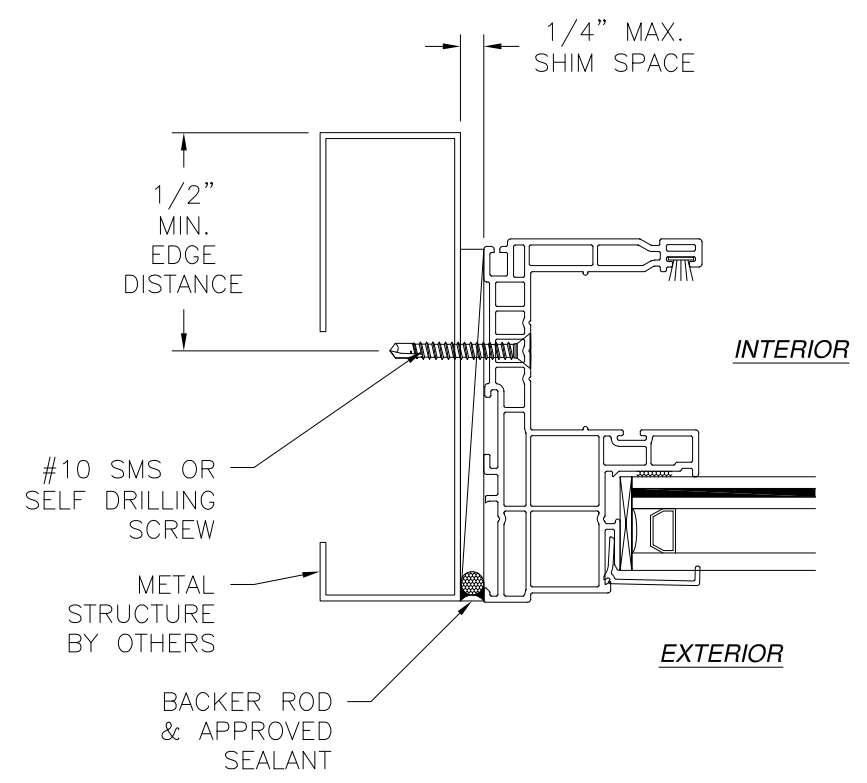


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

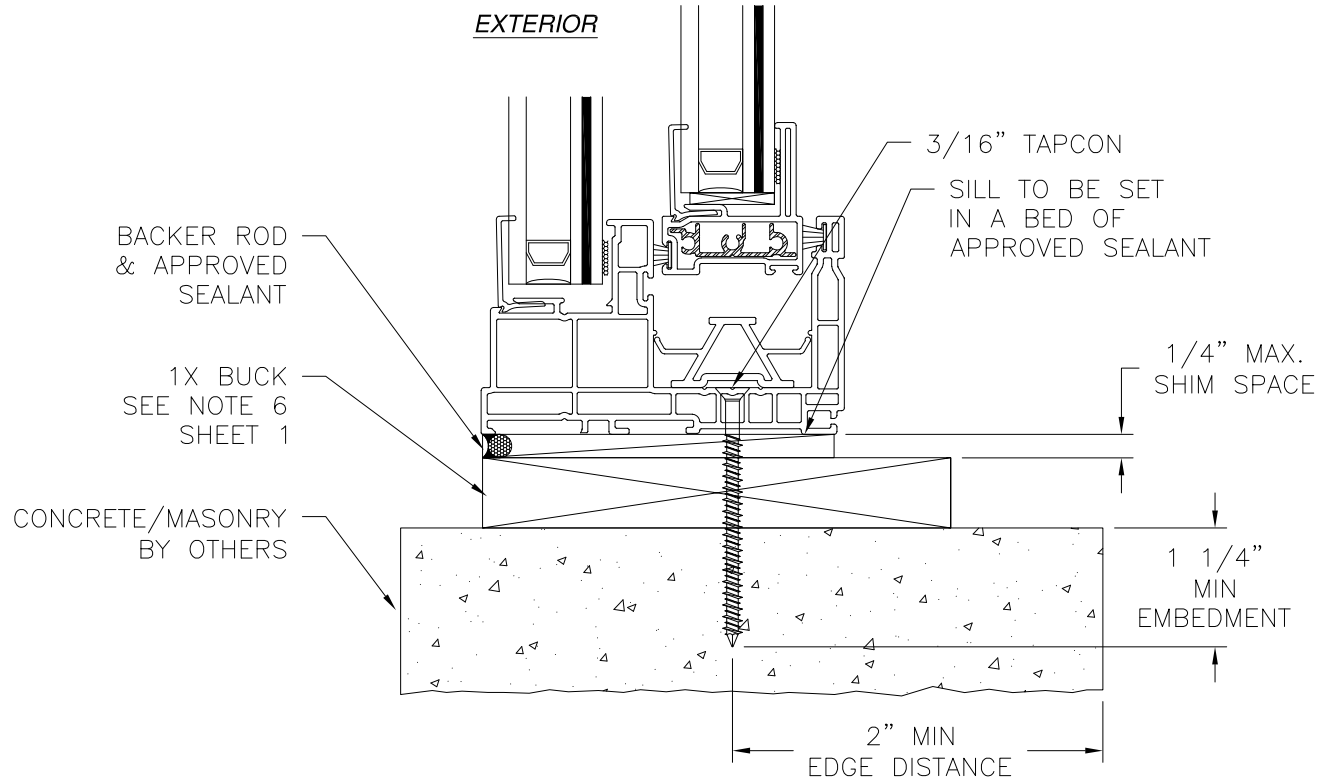
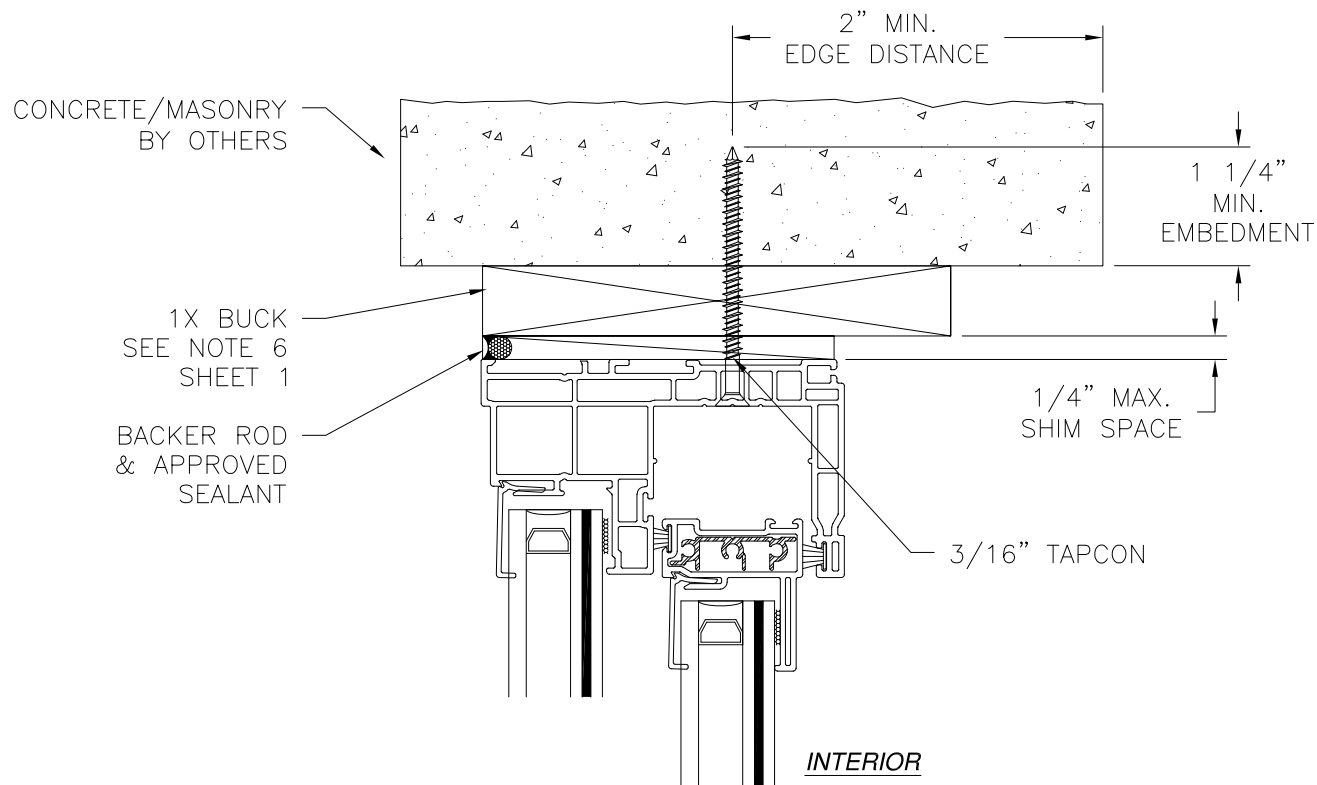
- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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SIGNED: 08/24/2023

SHWINCO ARCHITECTURAL PRODUCTS, LLC		
171 JET SERVICES WAY DOTHAN, AL 36303		
SERIES 9050 HS WINDOW IMPACT HVHZ BOX INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-03556	REV A
SCALE NTS	DATE 05/04/2020	SHEET 12 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

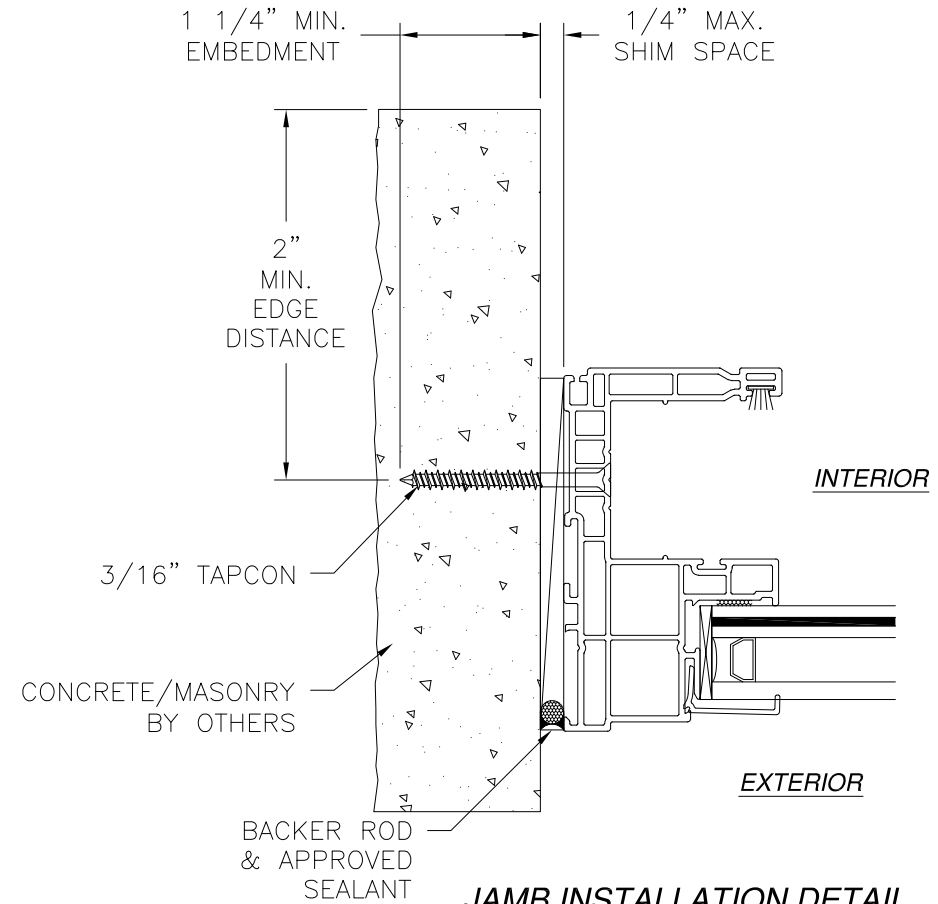
LUIS R. LOMAS
P.E.
No. 62514
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	08/24/2023	R.L.



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

NOTES:

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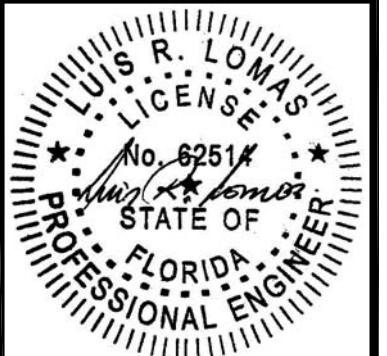
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SHWINCO ARCHITECTURAL PRODUCTS, LLC
 171 JET SERVICES WAY
 DOTHAN, AL 36303

SERIES 9050 HS WINDOW
 IMPACT HVHZ
 BOX INSTALLATION DETAILS

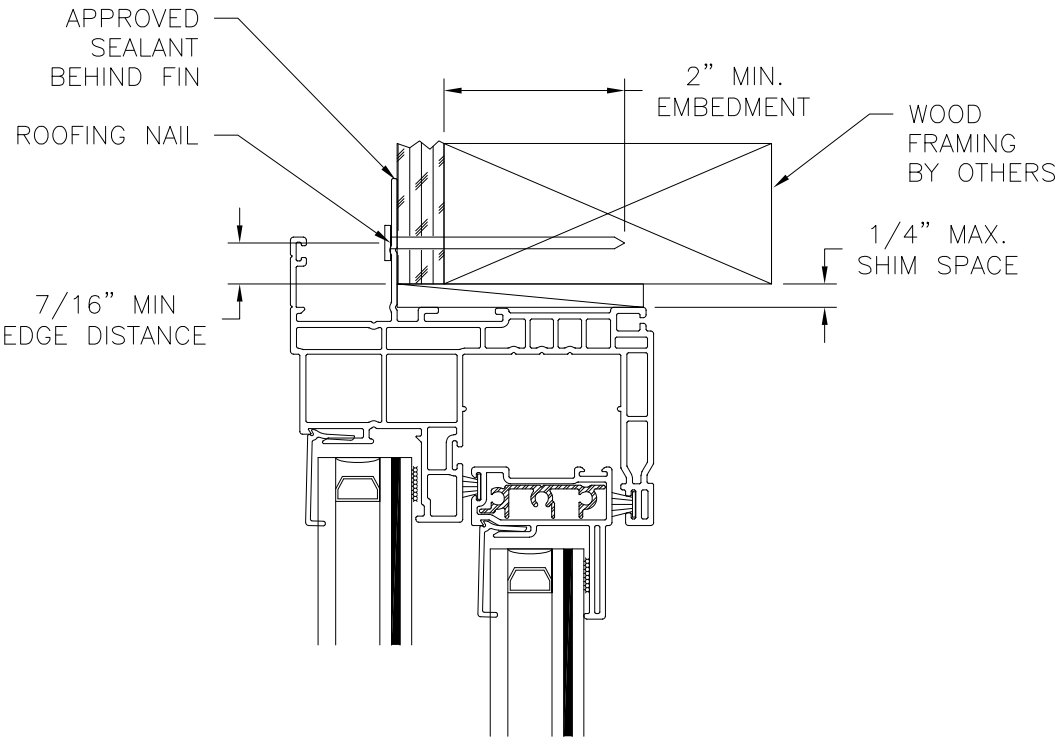
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SCALE NTS	DATE 05/04/2020	SHEET 13 OF 17

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



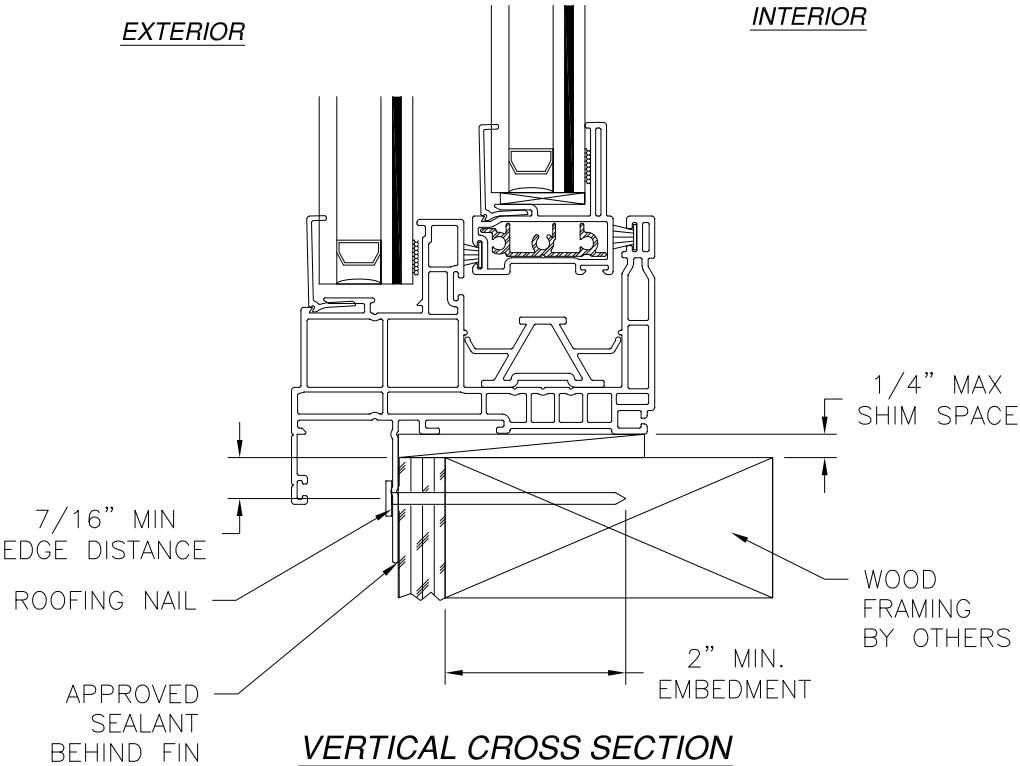
Luis R. Lomas P.E.
 FL No.: 62514

REVISIONS			
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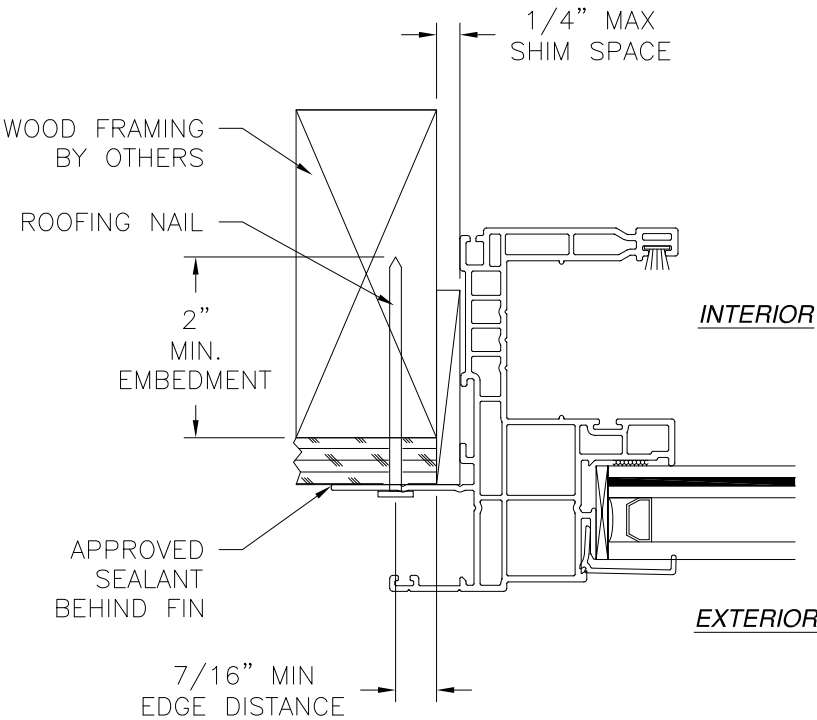


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:
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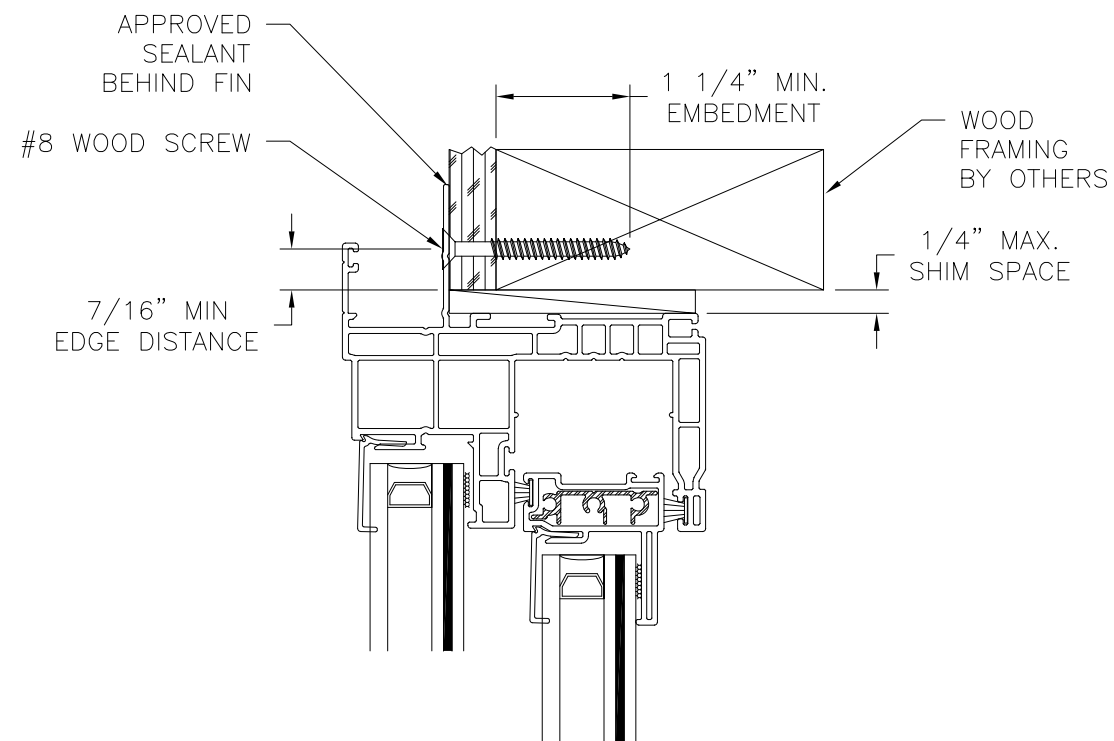
SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303
SERIES 9050 HS WINDOW
IMPACT HVHZ
FIN INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-03556	REV A
SCALE NTS	DATE 05/04/2020	SHEET 14 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



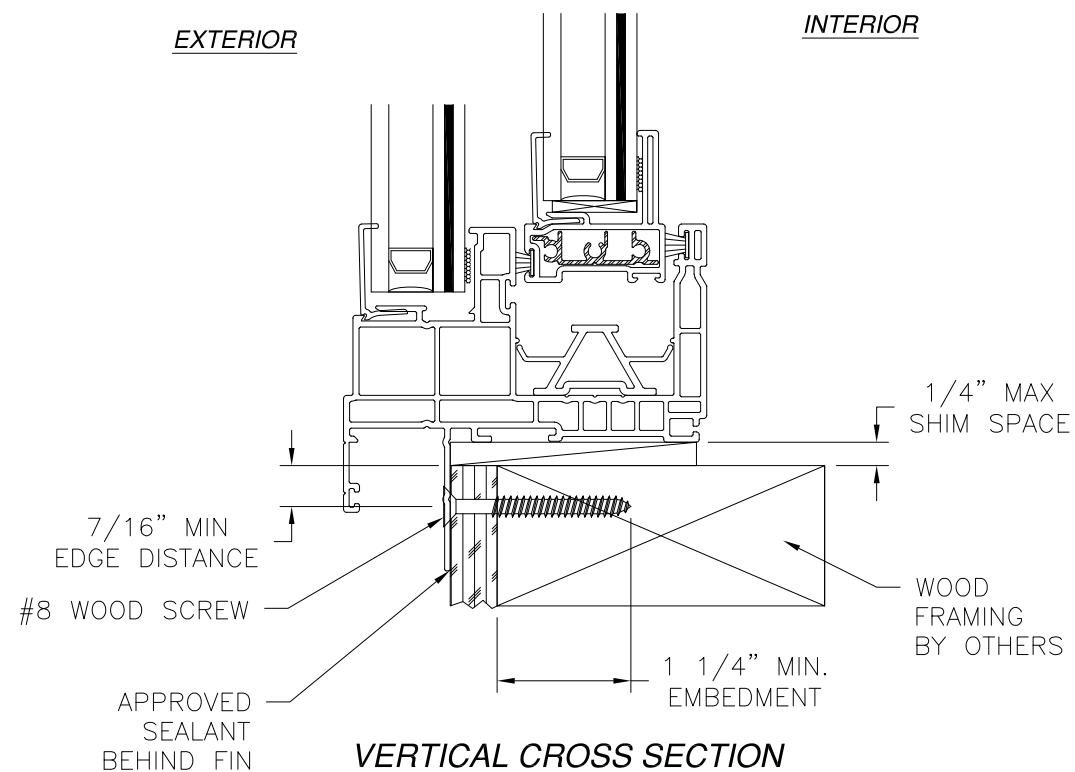
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
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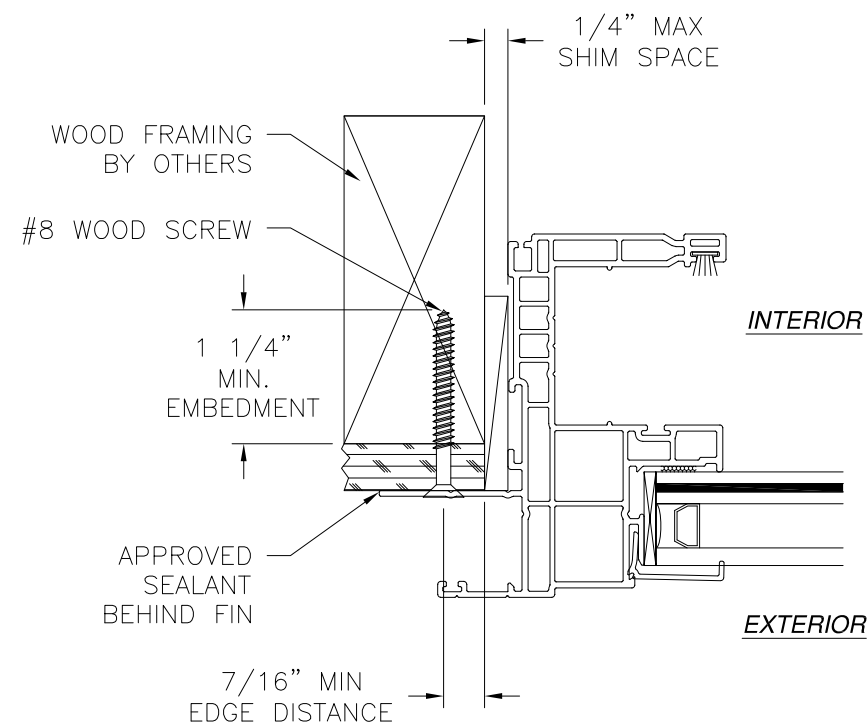


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:

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SIGNED: 08/24/2023

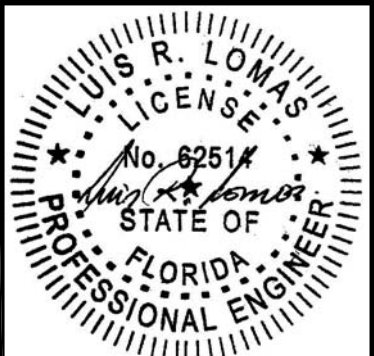
SHWINCO ARCHITECTURAL PRODUCTS, LLC

171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
FIN INSTALLATION DETAILS

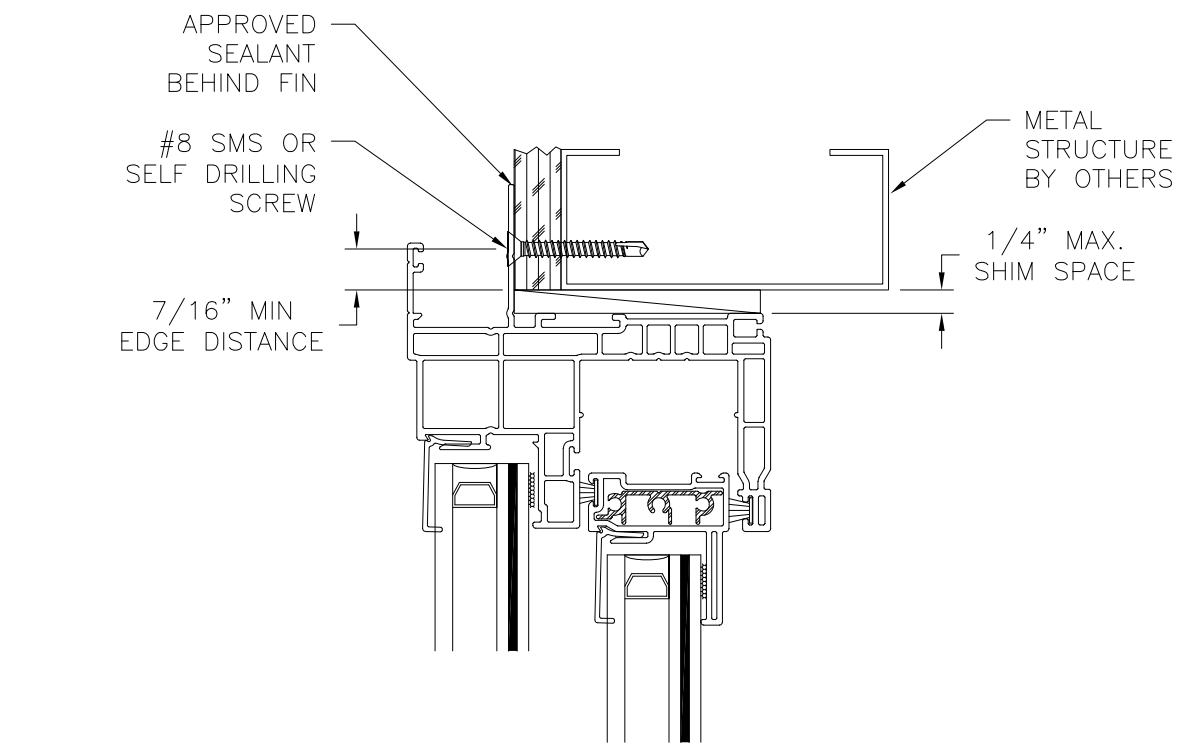
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SCALE NTS	DATE 05/04/2020	SHEET 15 OF 17

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



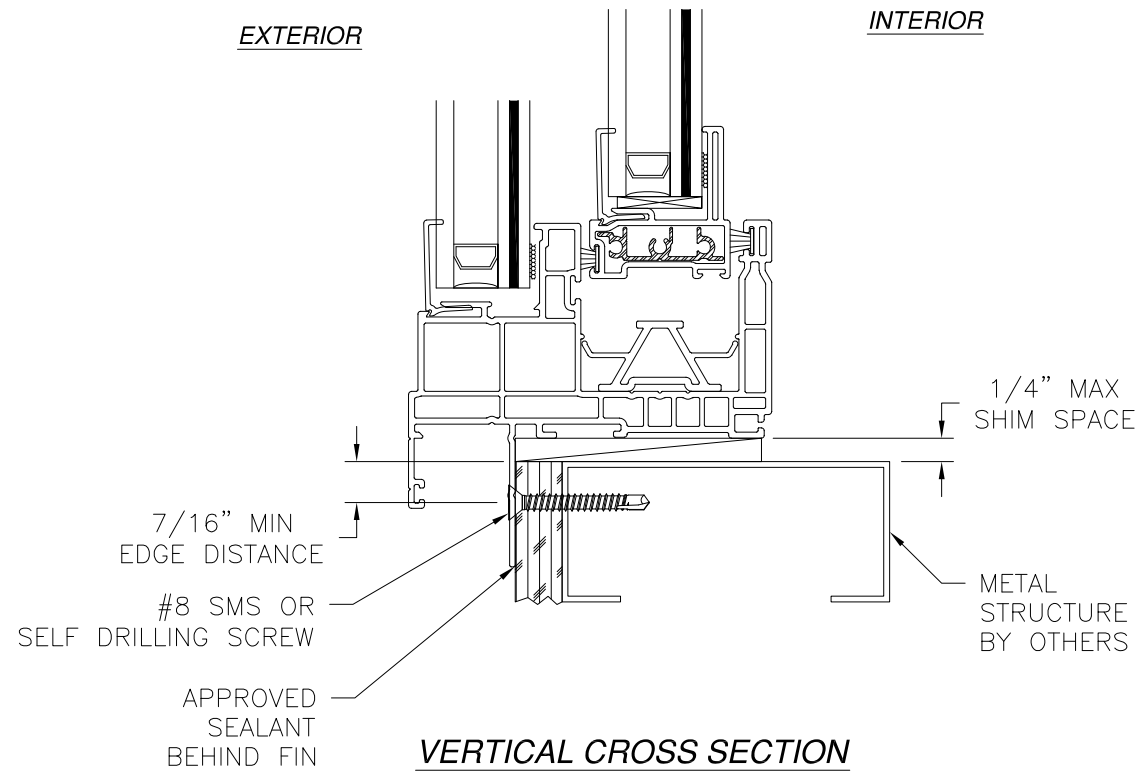
Luis R. Lomas P.E.
FL No.: 62514

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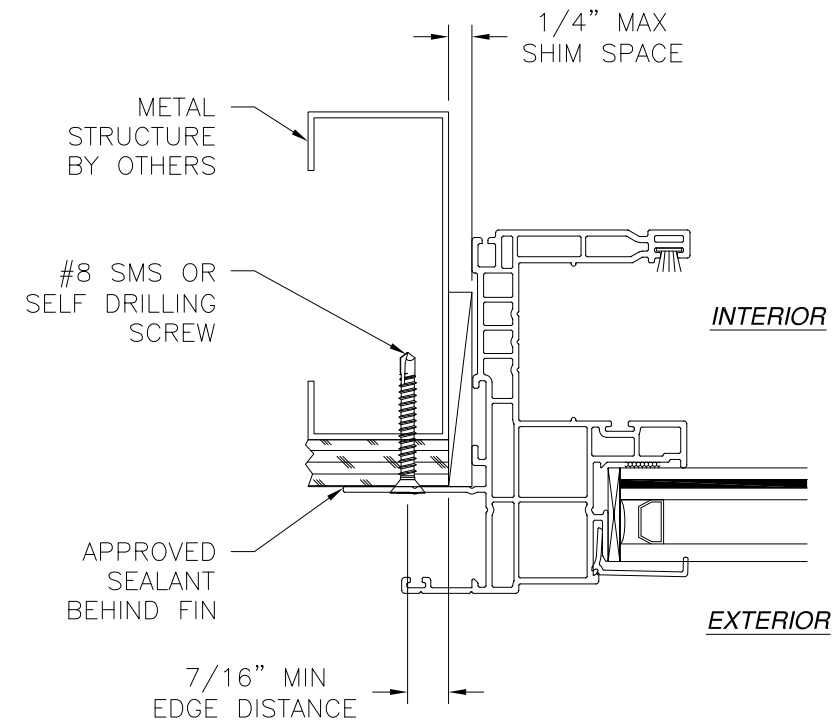


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

NOTES:

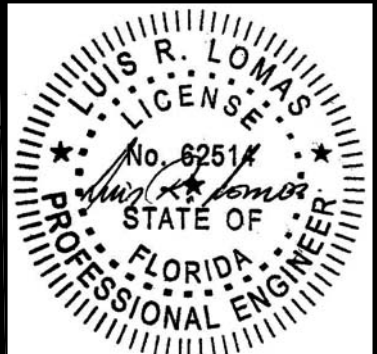
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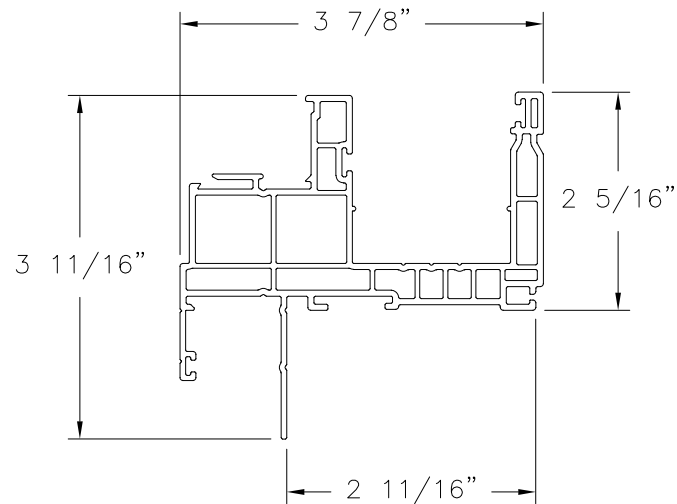
SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
FIN INSTALLATION DETAILS

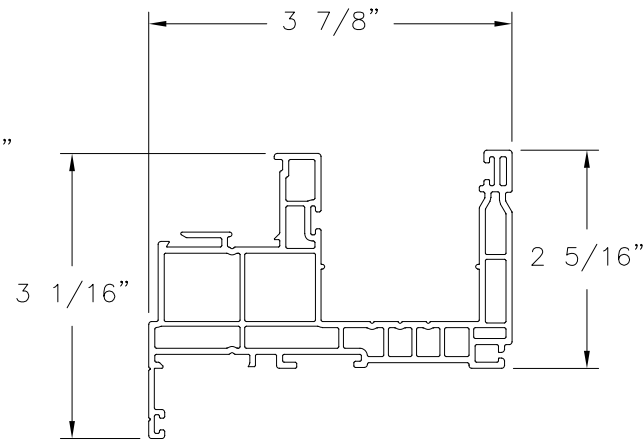
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SCALE NTS	DATE 05/04/2020	SHEET 16 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



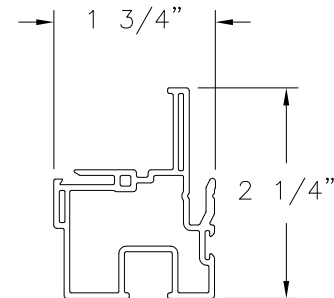
Luis R. Lomas P.E.
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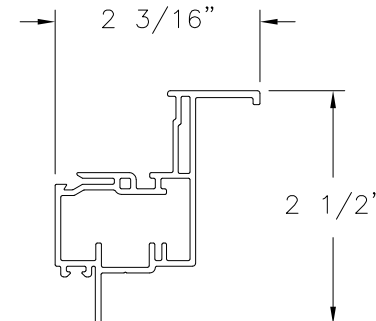
FIN FRAME (VM-2363)
PVC



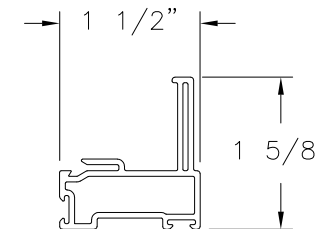
FLANGE FRAME (VM-2363)
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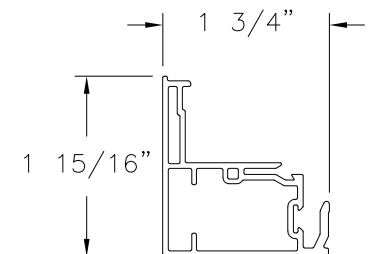
FIXED MEETING RAIL (VM-2359)
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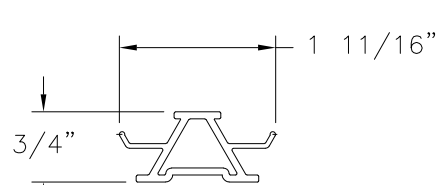
LIFT STILE (VM-2361)
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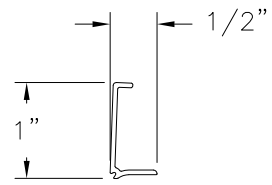
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PVC



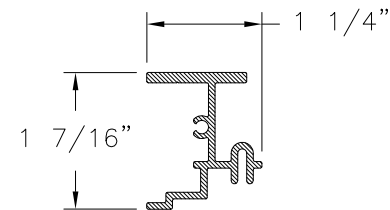
LOCK STILE (VM-2360)
PVC



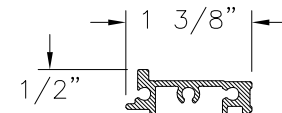
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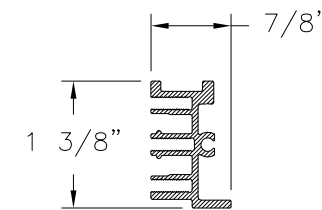
BEAD (VM-2365)
PVC



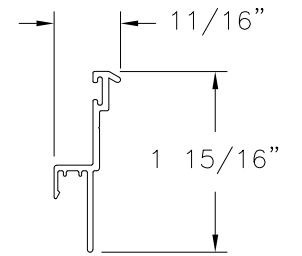
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ALUMINUM



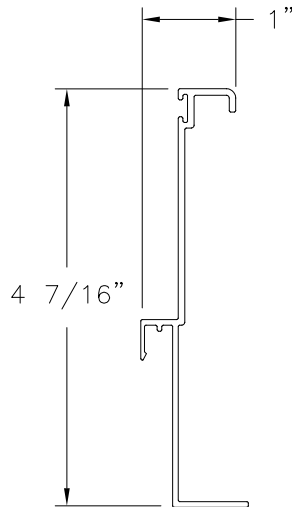
SASH REINFORCEMENT (T-11222)
ALUMINUM



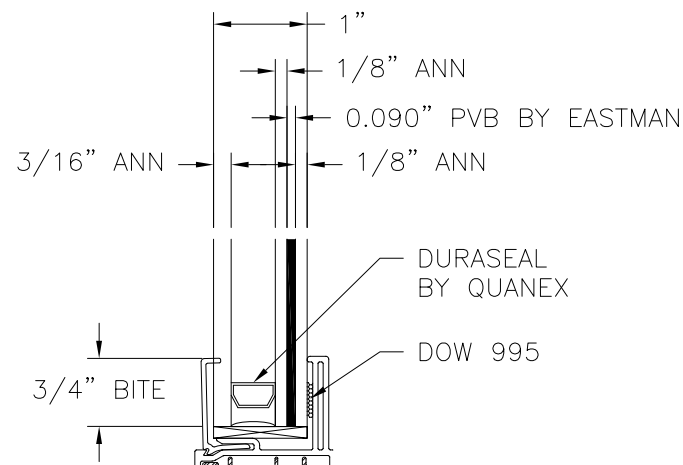
MEETING RAIL REINFORCEMENT (T-11333)
ALUMINUM



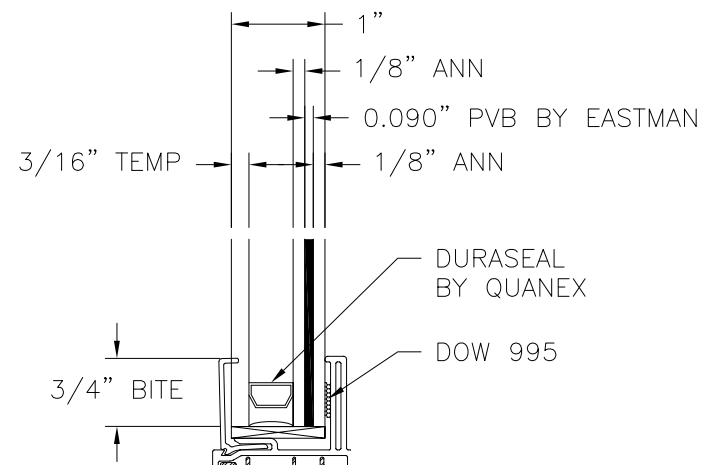
3/4" SILL RISER
ALUMINUM



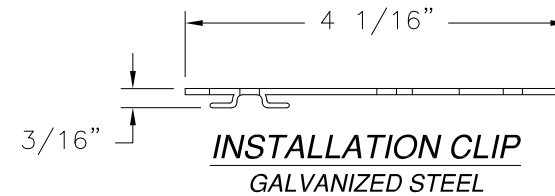
2" SILL RISER
ALUMINUM



GLAZING A



GLAZING B



INSTALLATION CLIP
GALVANIZED STEEL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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SHWINCO ARCHITECTURAL PRODUCTS, LLC

171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW
IMPACT HVHZ
COMPONENTS

DRAWN:
R.L.

DWG NO.

08-03556

REV
A

SCALE NTS

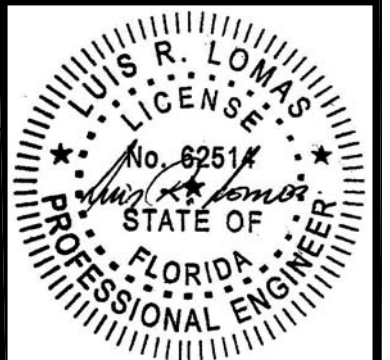
DATE

05/04/2020

SHEET 17 OF 17

L. ROBERTO LOMAS P.E.
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