

s:\projects\andersen windows\cc-20-0224 - code change - fbc 2020 (version 7)\code change\revisions\fl19564\dwg\19564_2\awd144 renewal series double hung - insert frame.dwg 10/6/2020 1:36 AM

ANDERSEN CORPORATION

RENEWAL BY ANDERSEN DOUBLE HUNG WINDOWS

INSERT FRAME

(NON-HVHZ)(NON-IMPACT)

INSTALLATION NOTES:

1.

ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN. ANCHOR MAY BE PLACED THROUGH INTERIOR OR EXTERIOR JAMB SASH TRACK AT EACH ANCHOR LOCATION SHOWN. SEE SHEET 4 FOR ANCHOR REQUIREMENT NOTES.
2.

INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
3.

THROUGH FRAME: FOR INSTALLATION INTO 2X BUCK USE #10 FH WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE AND SHALL MAINTAIN MINIMUM 1/2 INCH EDGE DISTANCE.
4.

THROUGH FRAME: FOR INSTALLATION INTO METAL SUBSTRATES USE #10 FH GRADE 5 SELF-DRILLING OR SELF-TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE AND SHALL MAINTAIN MINIMUM 1/2 INCH EDGE DISTANCE.
5.

THROUGH FRAME: FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE ONE (1) 3/16 INCH FH ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT AND SHALL MAINTAIN MINIMUM 2 INCH EDGE DISTANCE.
6.

MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7.

INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8.

FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
9.

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 BY THE ANCHOR MANUFACTURER.
10.

INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A.

WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B.

CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C.

GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D.

HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

E.

STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 48 MILS (18 GAUGE).

F.

ALUMINUM - MINIMUM WALL THICKNESS OF 1/8 INCH, 6063-T5 ALLOY OR BETTER.

GENERAL NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, INTERNATIONAL BUILDING CODE & INTERNATIONAL RESIDENTIAL CODE EXCLUDING HVHZ. THE PRODUCT HAS BEEN EVALUATED TO THE FOLLOWING:

•

AAMA/WDMA/CSA 101/I.S.2/A440-11
2.

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3.

1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4.

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5.

APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6.

WINDOW FRAME MATERIAL: *FIBREX®* AND PVC.
7.

GLASS MEETS THE REQUIREMENTS OF ASTM E1300. SEE GLAZING DETAILS ON SHEET 3.
8.

DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X:

OPERABLE PANEL

O:

FIXED PANEL

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL & INSTALLATION NOTES
2	ELEVATIONS & ANCHOR LAYOUTS
3	VERTICAL SECTIONS, REINFORCEMENT REQ'S & GLAZING DETAIL
4	HORIZONTAL SECTIONS

DESIGN PRESSURE RATING		
SIZE	SILL TYPE	DESIGN PRESSURE
54" X 72"	FLAT	+20.0 / -20.0 PSF
	SLOPED	
45" X 77"	FLAT	+35.0 / -35.0 PSF
	SLOPED	+25.0* / -35.0 PSF
48" X 96"	FLAT	+20.0 / -20.0 PSF
	SLOPED	

* NOTE: 45" X 77" UNIT WITH SLOPED SILL MEETS STRUCTURAL DESIGN PRESSURE OF +/-35 PSF



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HUNG WINDOWS - INSERT FRAME
(NON-HVHZ)(NON-IMPACT)
GENERAL & INSTALLATION NOTES

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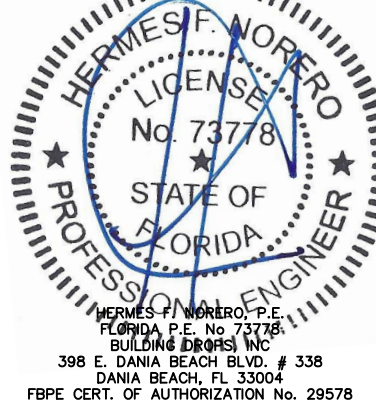
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Reason: I am approving this document
Date: 2020.10.08 19:16:20 -02'00'



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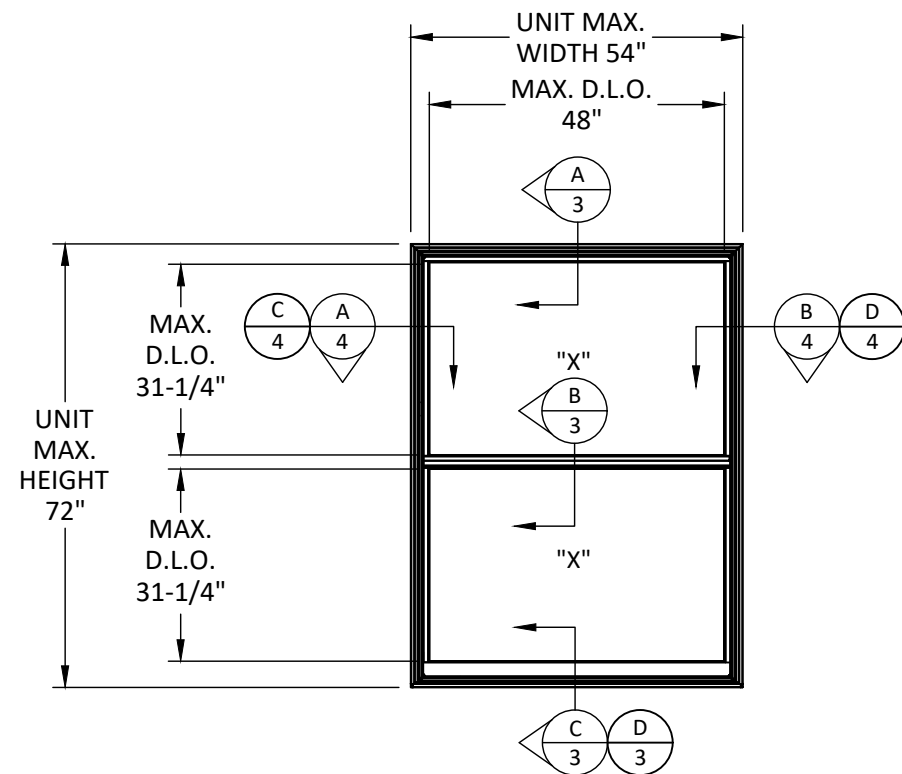
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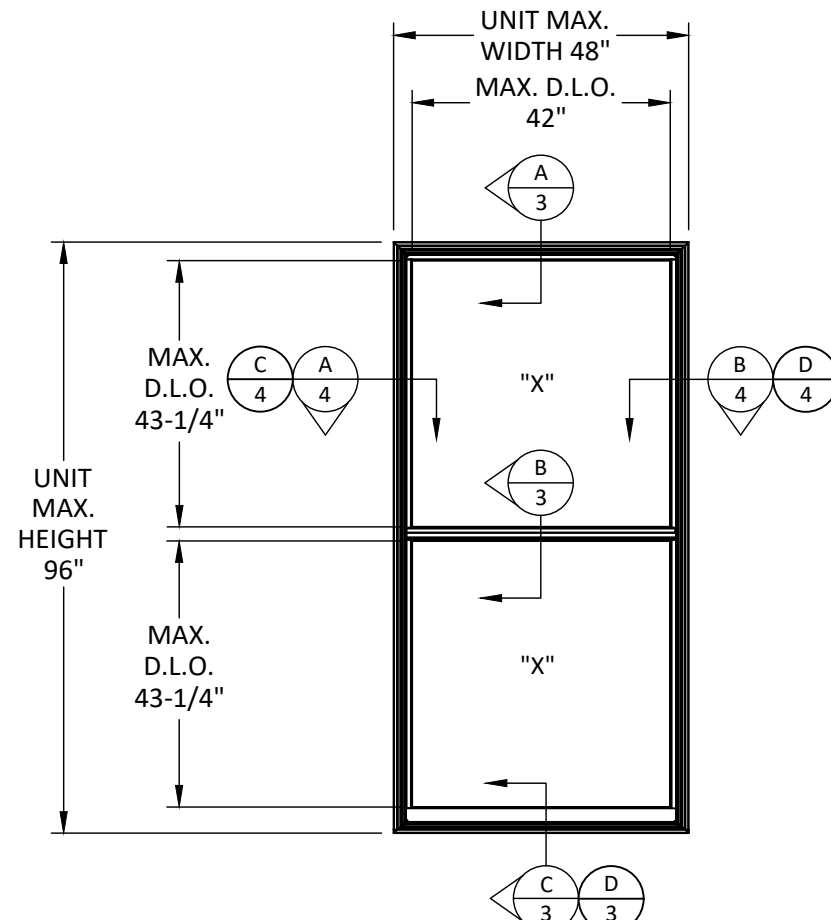
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AWD144

SHEET:
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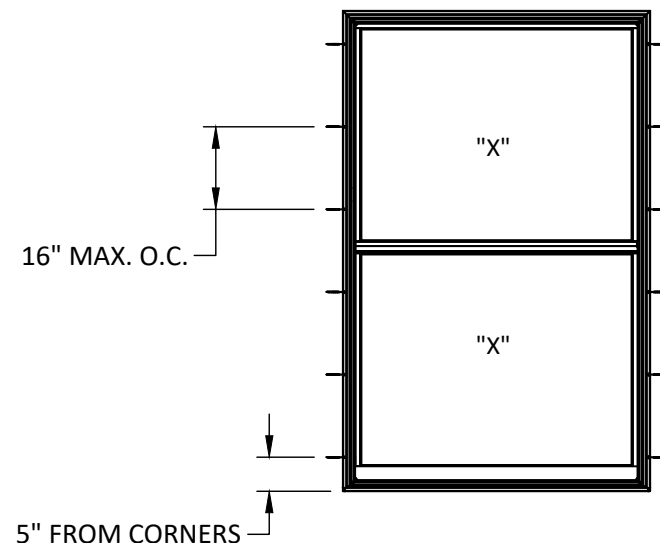
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ELEVATION
54" x 72"



ELEVATION
48" x 96"



TYPICAL ANCHOR LAYOUT

NOTE: ORIEL , COTTAGE, AND CUSTOM SASH
SIZES ARE AVAILABLE UPON REQUEST SUCH
THAT THEY DO NOT EXCEED MAX. SASH D.L.O.
SIZES SHOWN HEREIN.



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ELEVATIONS & ANCHOR LAYOUTS

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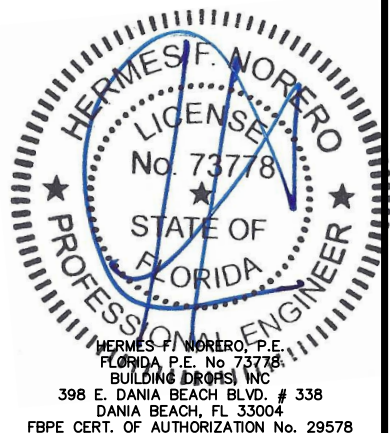
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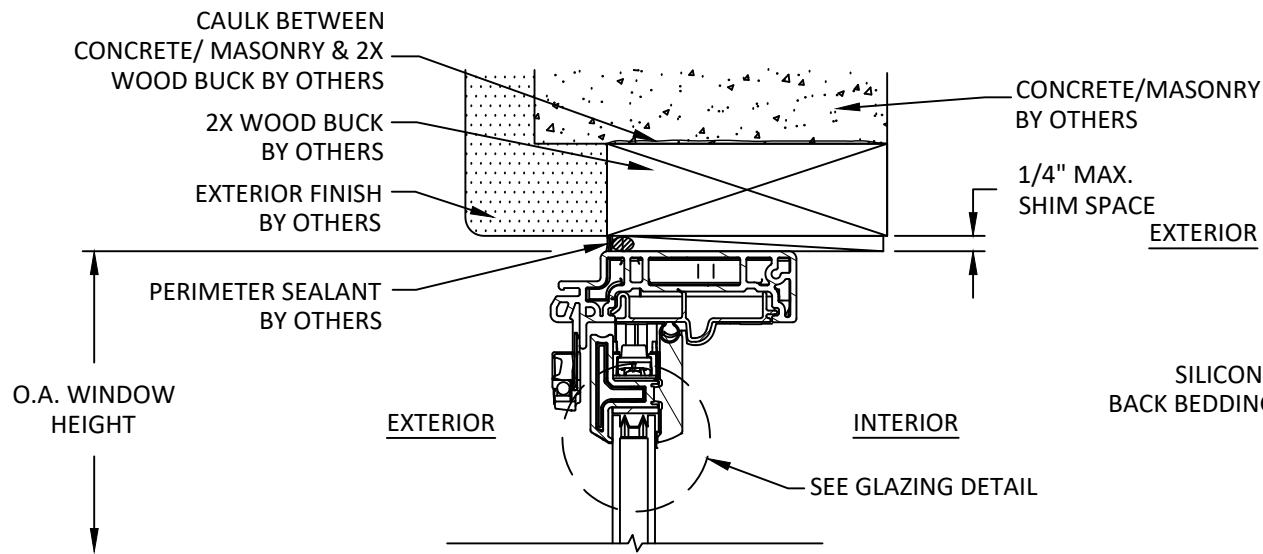
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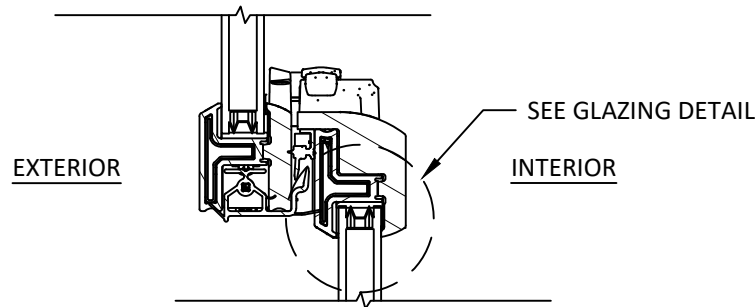
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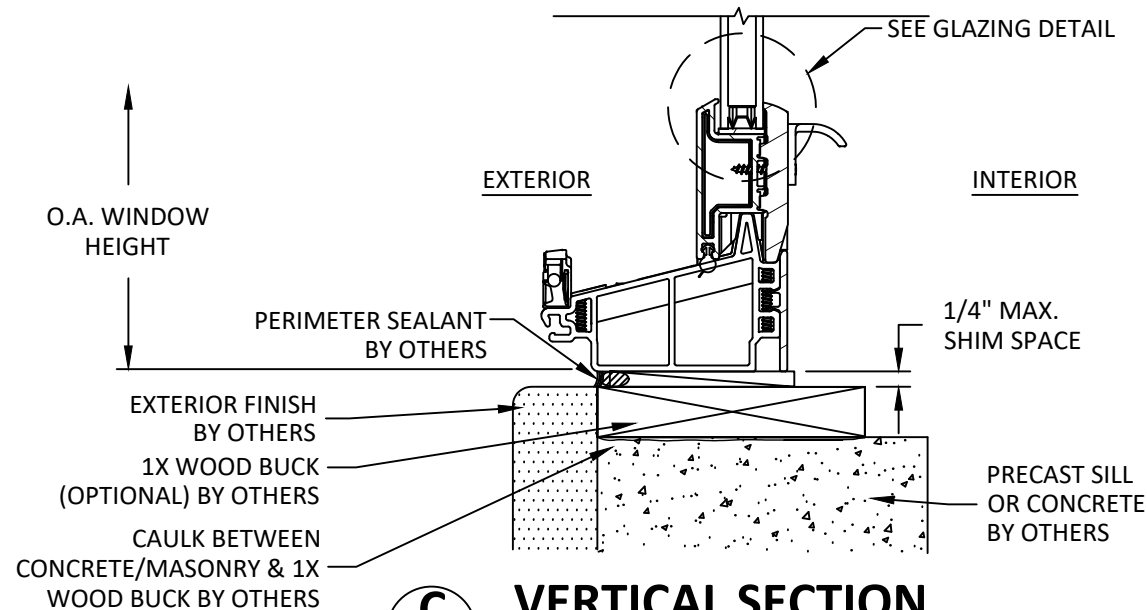
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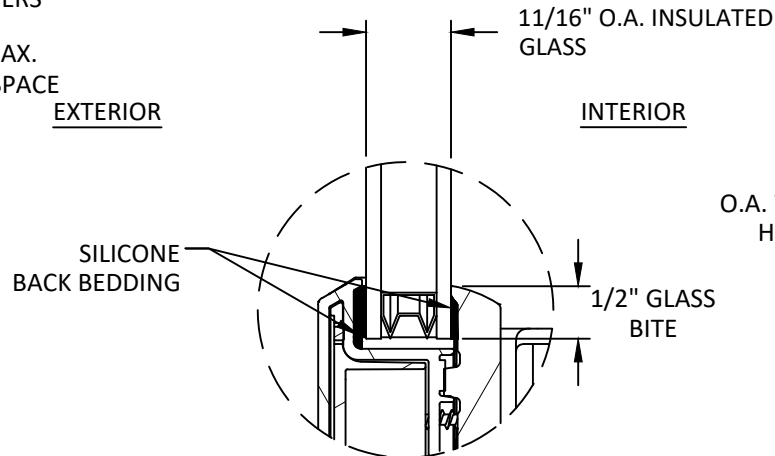
A
3 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK



B
3 **VERTICAL SECTION**
CHECK RAIL



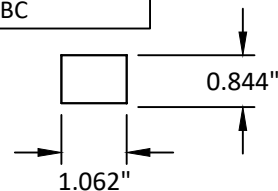
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3 **VERTICAL SECTION**
SILL - 1X WOOD ON CONCRETE/MASONRY
FLAT SILL



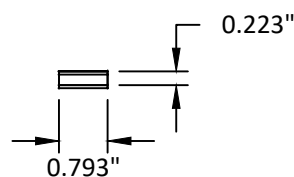
GLAZING DETAIL

GLAZING NOTES:

1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS.
2. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
4. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC

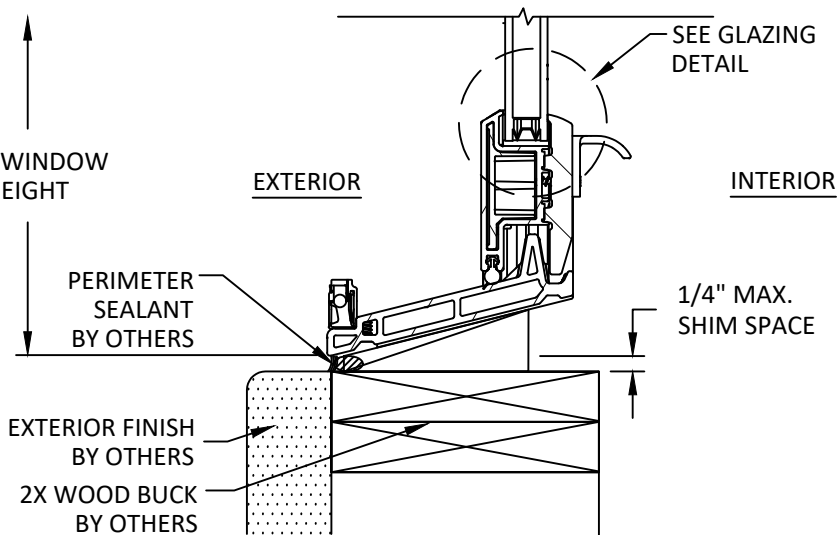


TALL BOTTOM RAIL WOOD (LVL)
REINFORCEMENT DETAIL



RAIL AND STILE ALUMINUM
REINFORCEMENT DETAIL

SASH REINFORCEMENT REQUIREMENTS		
LOCATION	REINFORCING REQUIRED SIZE	REINFORCING
UPPER SASH STILES	SASH HEIGHT $\geq$ 37.8345"	REQUIRES ALUMINUM REINFORCEMENT INSERTED INTO STILE
UPPER SASH RAILS	SASH WIDTH $\geq$ 43.125" OR SASH WIDTH $\geq$ 36.125" AND SASH HEIGHT $>$ 37.8345"	REQUIRES ALUMINUM REINFORCEMENT INSERTED INTO RAIL
LOWER SASH STILES	SASH HEIGHT $\geq$ 38.9645"	REQUIRES ALUMINUM REINFORCEMENT INSERTED INTO STILE
LOWER SASH RAILS	SASH WIDTH $\geq$ 43.125" OR SASH WIDTH $\geq$ 36.125" AND SASH HEIGHT $>$ 38.9645"	REQUIRES ALUMINUM REINFORCEMENT INSERTED INTO RAIL
LOWER SASH TALL BOTTOM RAIL	SASH WIDTH $\geq$ 43.125" OR SASH WIDTH $\geq$ 36.125" AND SASH HEIGHT $>$ 38.9645"	REQUIRES WOOD (LVL) REINFORCEMENT INSERTED INTO RAIL



D
3 **VERTICAL SECTION**
SILL
ALTERNATE 'SLOPED SILL'



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& GLAZING DETAIL

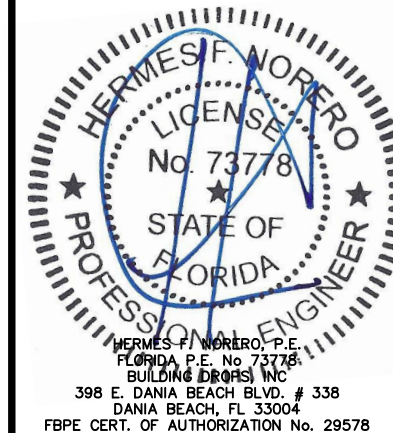
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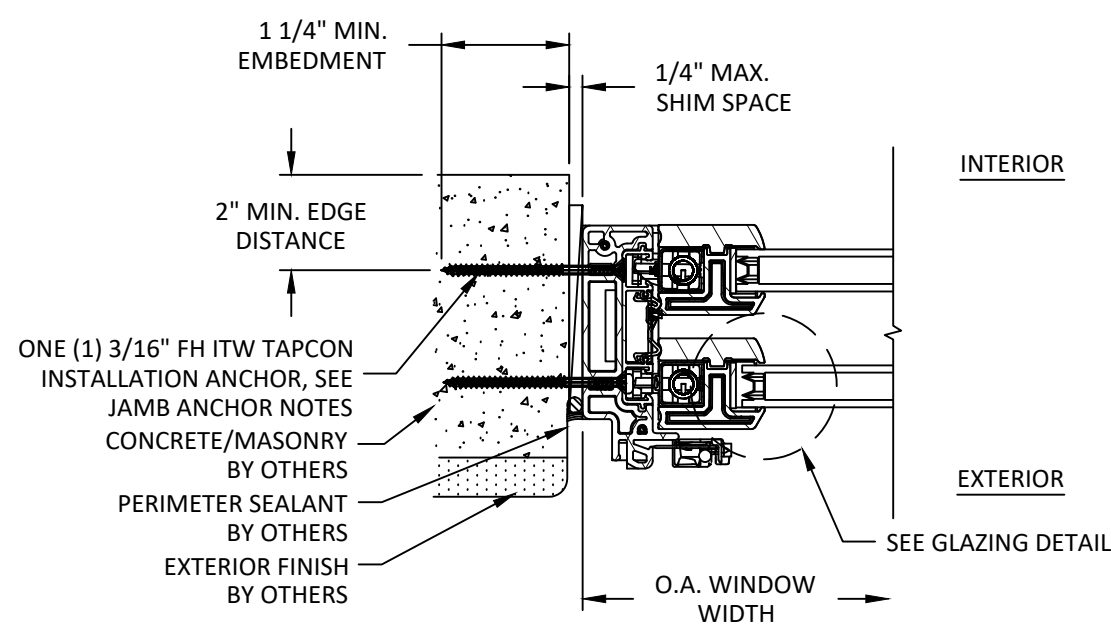
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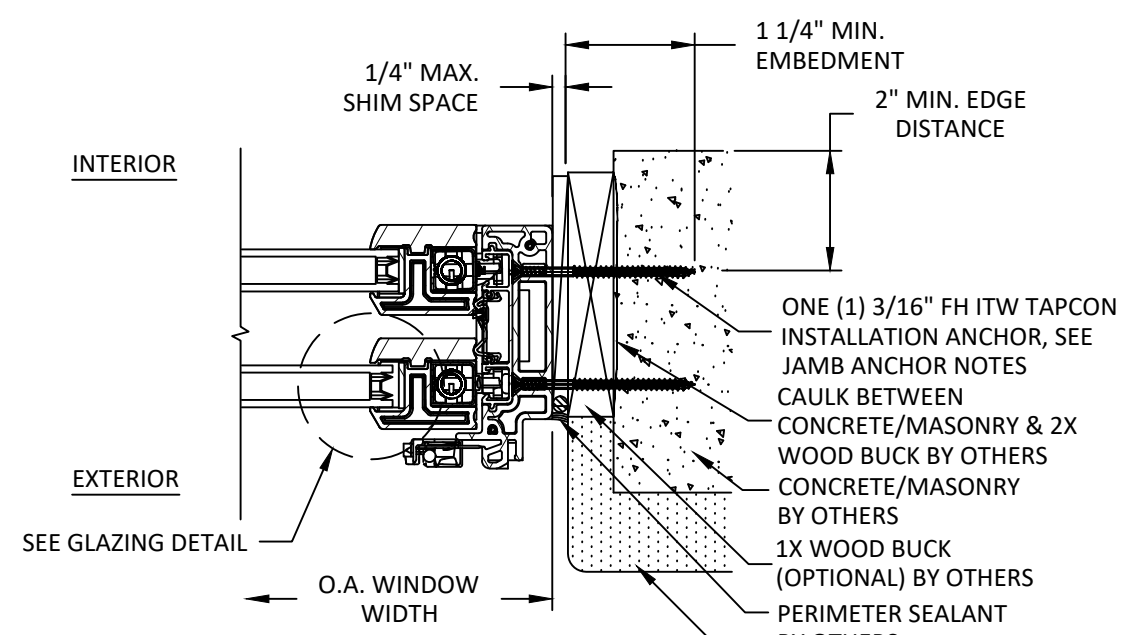
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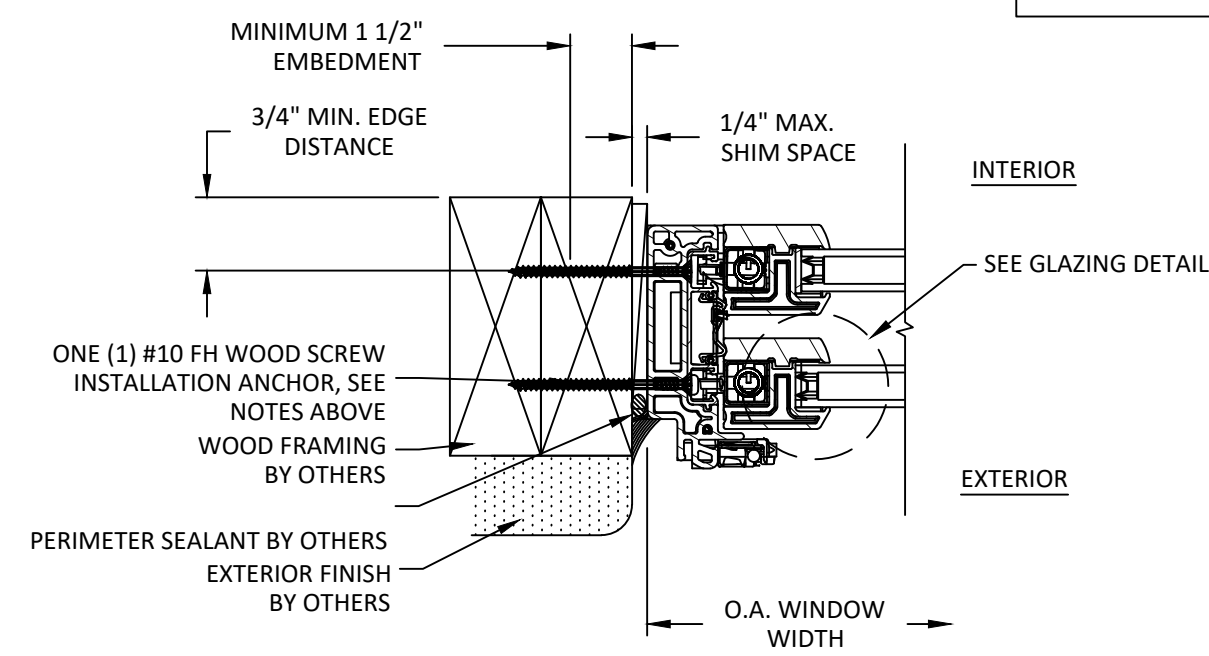


A
4 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
THROUGH FRAME

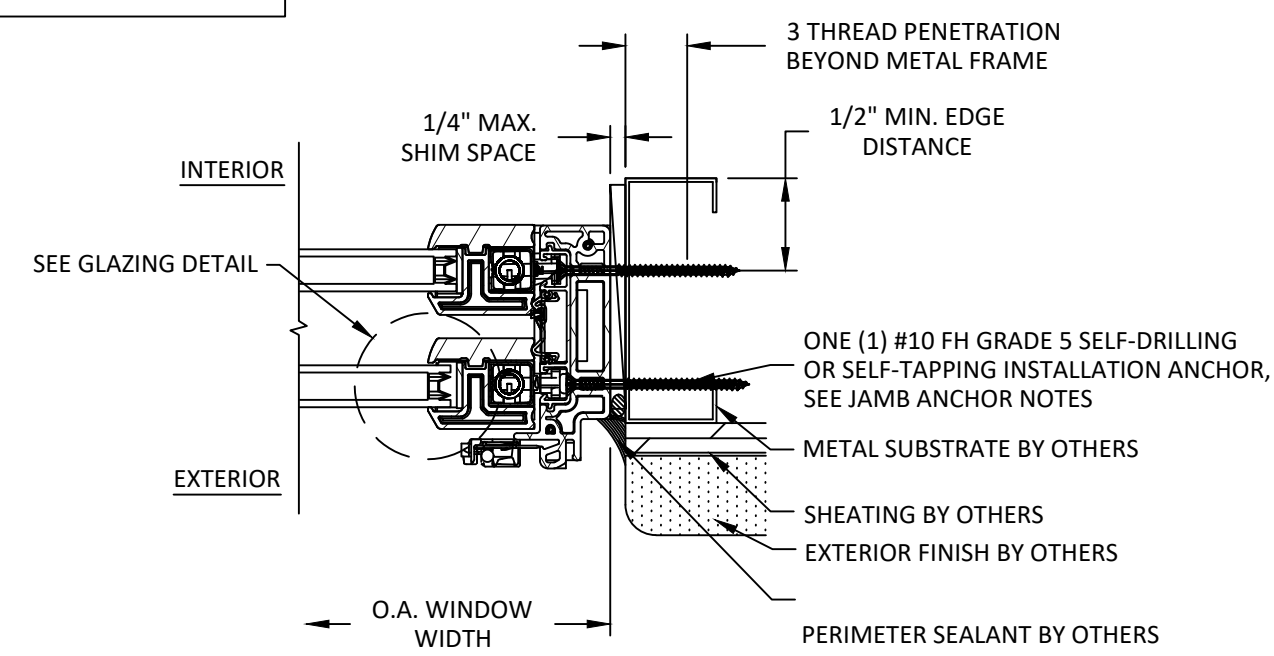


B
4 **HORIZONTAL SECTION**
JAMB - 1X WOOD ON CONCRETE/MASONRY
THROUGH FRAME

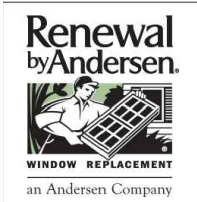
JAMB ANCHOR REQUIREMENTS:
ONE ANCHOR IS REQUIRED AT EACH JAMB ANCHOR LOCATION SPECIFIED ON ANCHOR LAYOUT.
ONE ANCHOR IS TO BE INSTALLED THROUGH EITHER OF THE TWO TRACKS AT EACH ANCHOR LOCATION SPECIFIED.



C
4 **HORIZONTAL SECTION**
JAMB - WOOD BUCK SUBSTRATE
THROUGH FRAME



D
4 **HORIZONTAL SECTION**
JAMB - METAL FRAME SUBSTRATE
THROUGH FRAME



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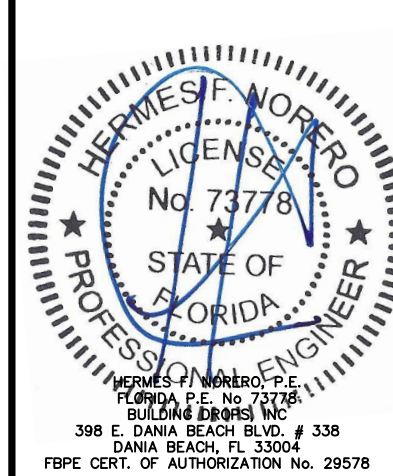
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HORIZONTAL SECTIONS

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