

OPTIMUM STEEL WINDOWS AND DOORS

RTS-430i STAINLESS STEEL CASEMENT WINDOW

(HVHZ)(IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR FOR EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 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.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION DIRECTLY INTO CONCRETE/MASONRY, USE 1/4 INCH DIAMETER ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT, AND 2-1/2 INCHES EDGE DISTANCE.
- FOR INSTALLATION DIRECTLY INTO WOOD FRAME, USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT, AND 3/4 INCH EDGE DISTANCE.
- FOR INSTALLATION INTO STEEL STUD OR ALUMINUM USE 1/4" SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL, AND 3/4 INCH EDGE DISTANCE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - 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.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 35.9 MIL (0.0478" or 18 GAUGE).
 - ALUMINUM - MINIMUM GRADE OF 6063-T6. 1/8" MINIMUM WALL THICKNESS.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, STEEL, AND 2X 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.
- 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.
- 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 IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: 304 STAINLESS STEEL
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAILS.
- XX DOUBLE CASEMENT UNITS SHOWN, X SINGLE UNITS ARE QUALIFIED TO THE SAME VENT SIZE.

NOTE:

INTERIOR AND EXTERIOR GLAZED OPTIONS QUALIFIED FOR ALL CONFIGURATIONS SHOWN ON THIS APPROVAL.

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8	VERTICAL SECTIONS - CONCRETE/MASONRY
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DESIGN PRESSURE RATING		
OVERALL SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
74 1/4" X 96 1/16"	+/- 65 PSF	SMALL & LARGE MISSILE IMPACT
37 1/8" X 96 1/16"		



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28 CANAL STREET
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TITLE: RTS-430i STAINLESS STEEL CASEMENT WINDOW (HVHZ)(IMPACT) GENERAL NOTES AND INSTALLATION NOTES

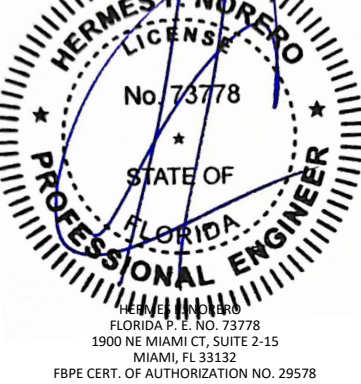
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MIAMI, FL 33132
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Reason: I am approving this document
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SHEET: 1	OF 11

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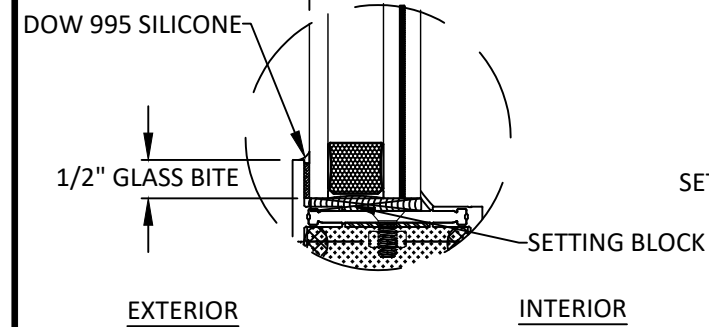
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1 1/2" O.A. IG CONSISTING OF:
1/4" TEMPERED
13/16" ALUMINUM SPACER
3/16" CLEAR HS
0.090" SENTRYGLAS INTERLAYER
BY KURARAY AMERICA
3/16" CLEAR HS

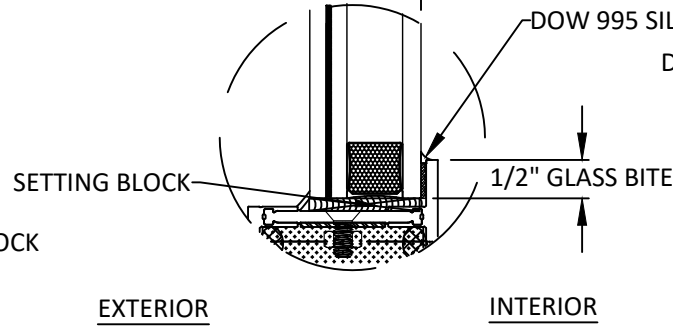
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0.090" SENTRYGLAS INTERLAYER
BY KURARAY AMERICA
3/16" CLEAR HS
13/16" ALUMINUM SPACER
1/4" TEMPERED

1 5/16" O.A. IG CONSISTING OF:
1/4" TEMPERED
9/16" ALUMINUM SPACER
3/16" CLEAR HS
0.090" SENTRYGLAS INTERLAYER
BY KURARAY AMERICA
3/16" CLEAR HS

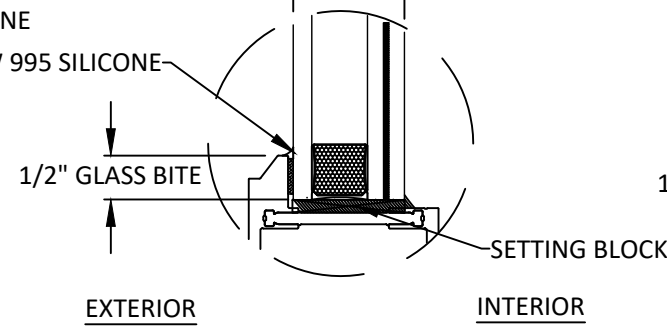
7/16" O.A. LAMINATED GLASS
CONSISTING OF:
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0.090" SENTRYGLAS INTERLAYER
BY KURARAY AMERICA
3/16" HEAT STRENGTHENED GLASS



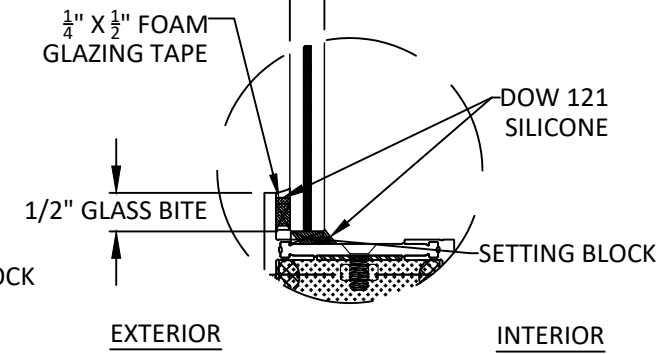
GLAZING DETAIL 1



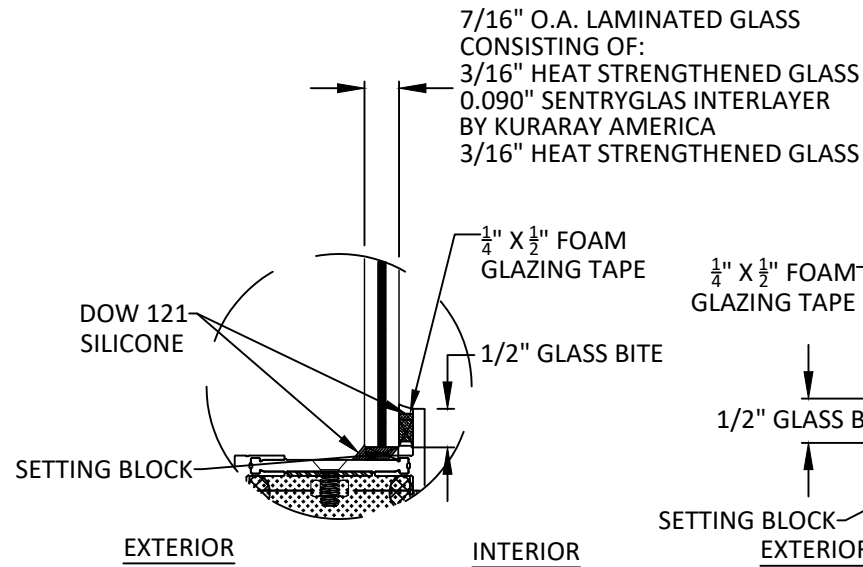
GLAZING DETAIL 2



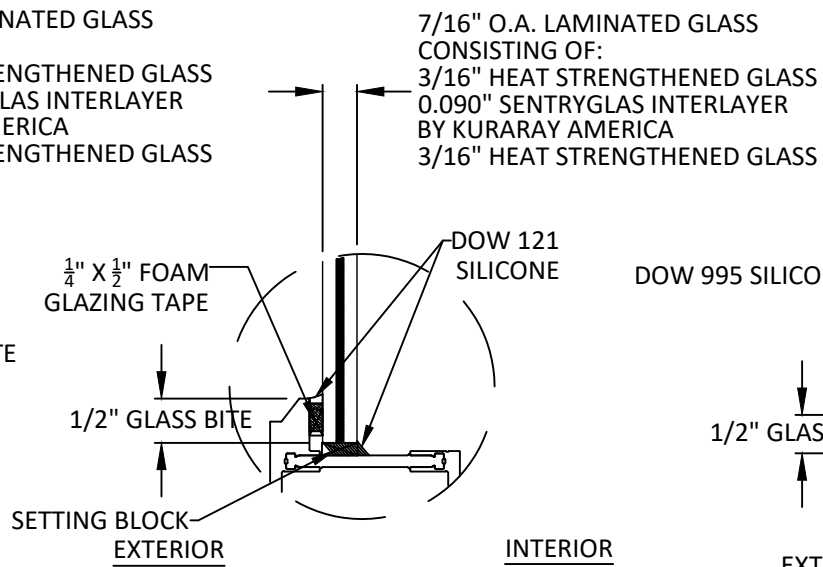
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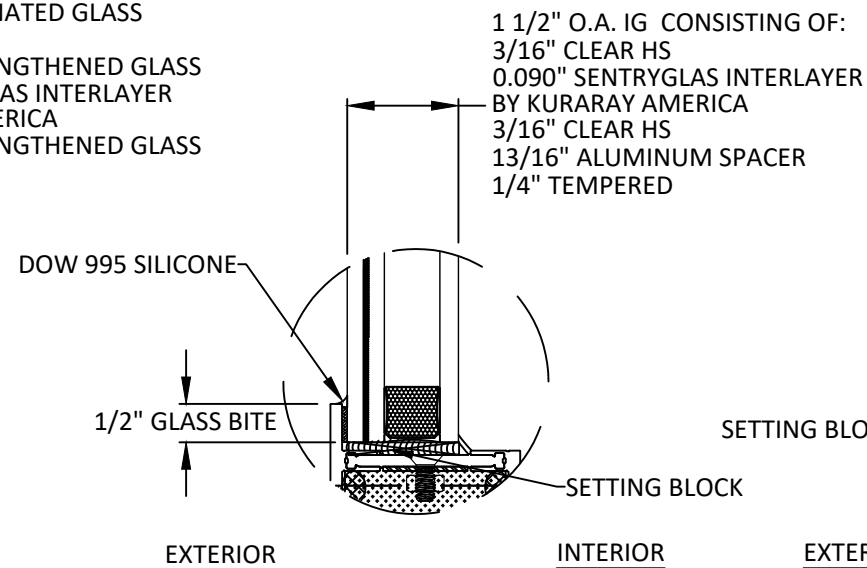
GLAZING DETAIL 4



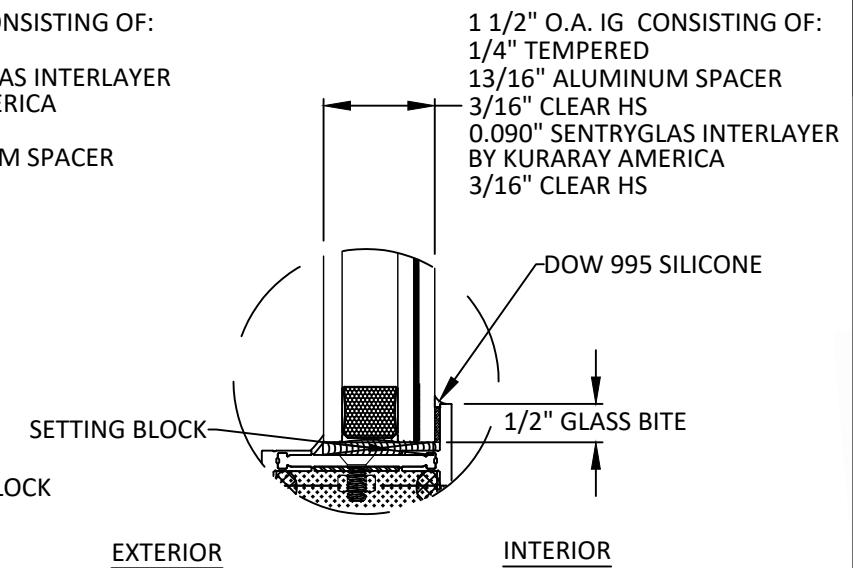
GLAZING DETAIL 5



GLAZING DETAIL 6



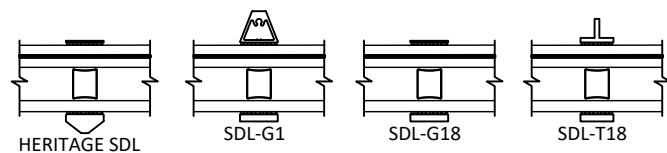
GLAZING DETAIL 7



GLAZING DETAIL 8

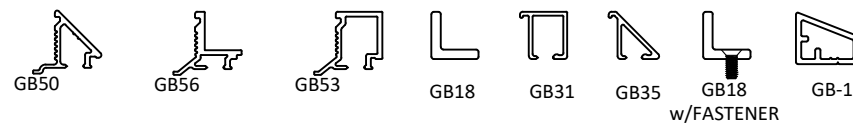
GLAZING DETAILS 4, 5, 6, 7, AND 8 ARE LIMITED TO A FRAME SIZE OF 24 FT² FOR SINGLE UNITS
AND 48 FT² FOR FRENCH UNITS.

SIMULATED MUNTIN:

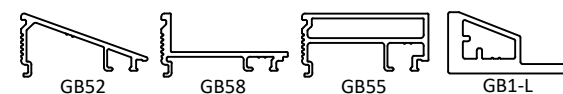


OTHER QUALIFIED GLAZING BEADS:

INSULATED GLAZING BEAD OPTIONS



MONOLITHIC GLAZING BEAD OPTIONS



NOTES:

- GLASS TYPES AND THICKNESS COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES ARE LIMITED TO THE MAX VALUES SHOWN HEREIN.



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CASEMENT WINDOW
(HVHZ)(IMPACT)

GLAZING DETAILS

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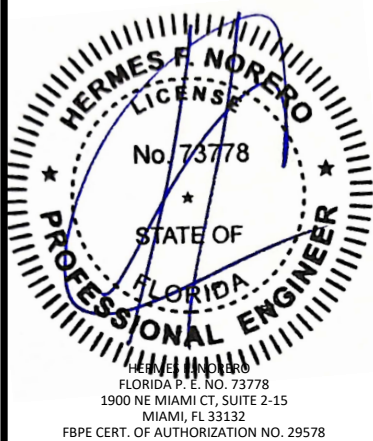
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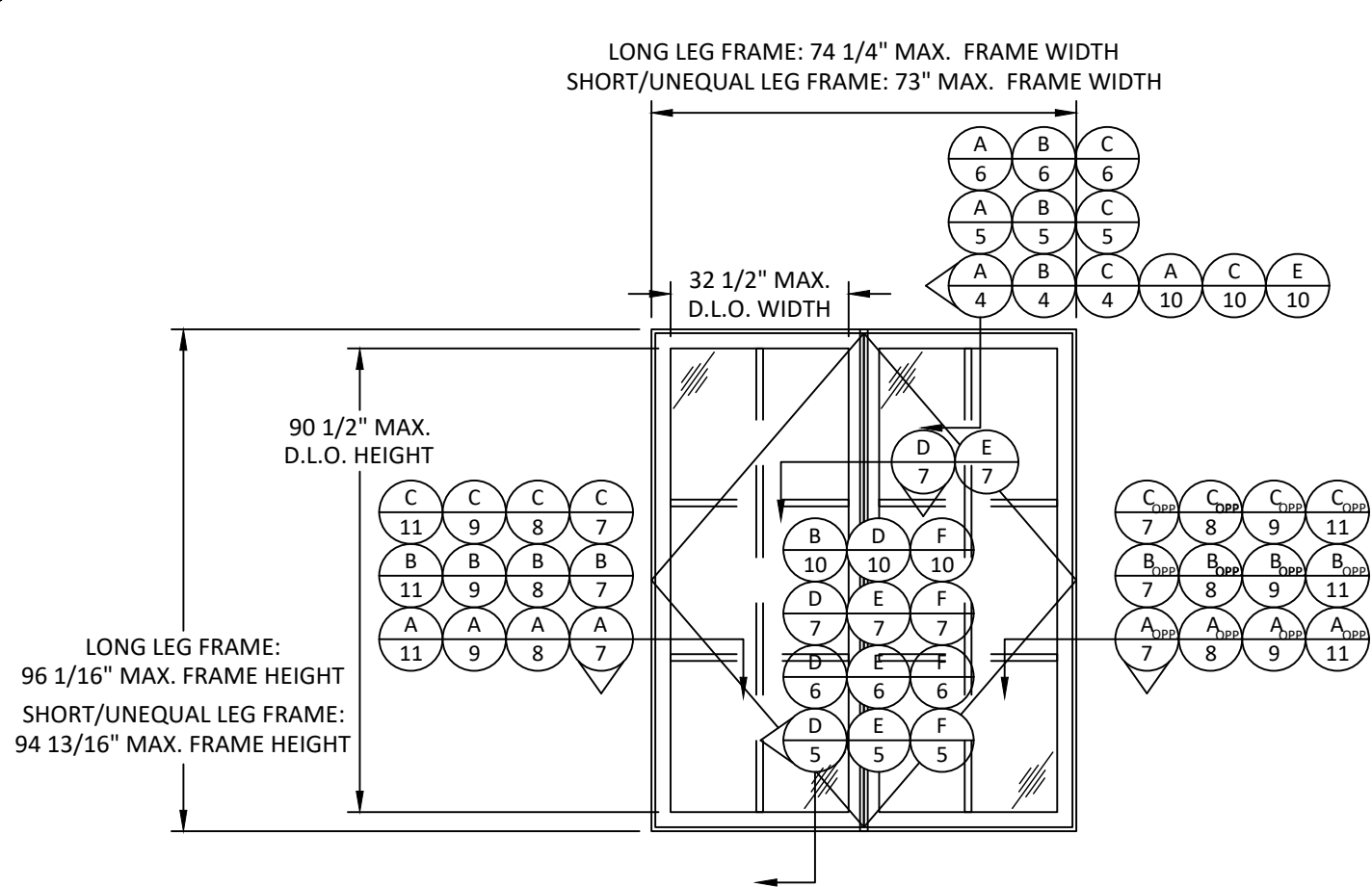
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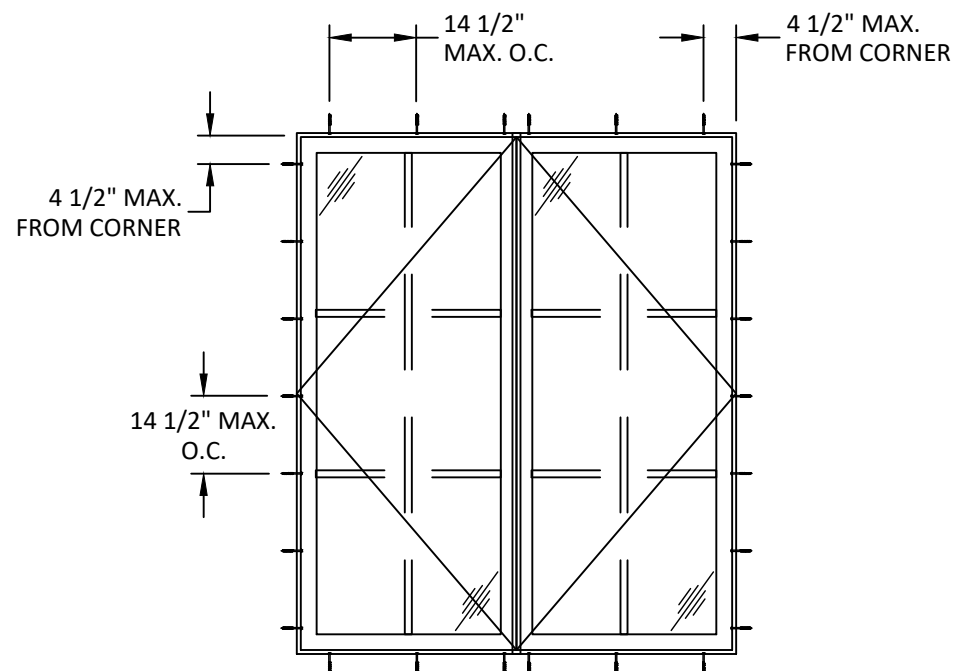
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DOUBLE OUTSWING CASEMENT WINDOW

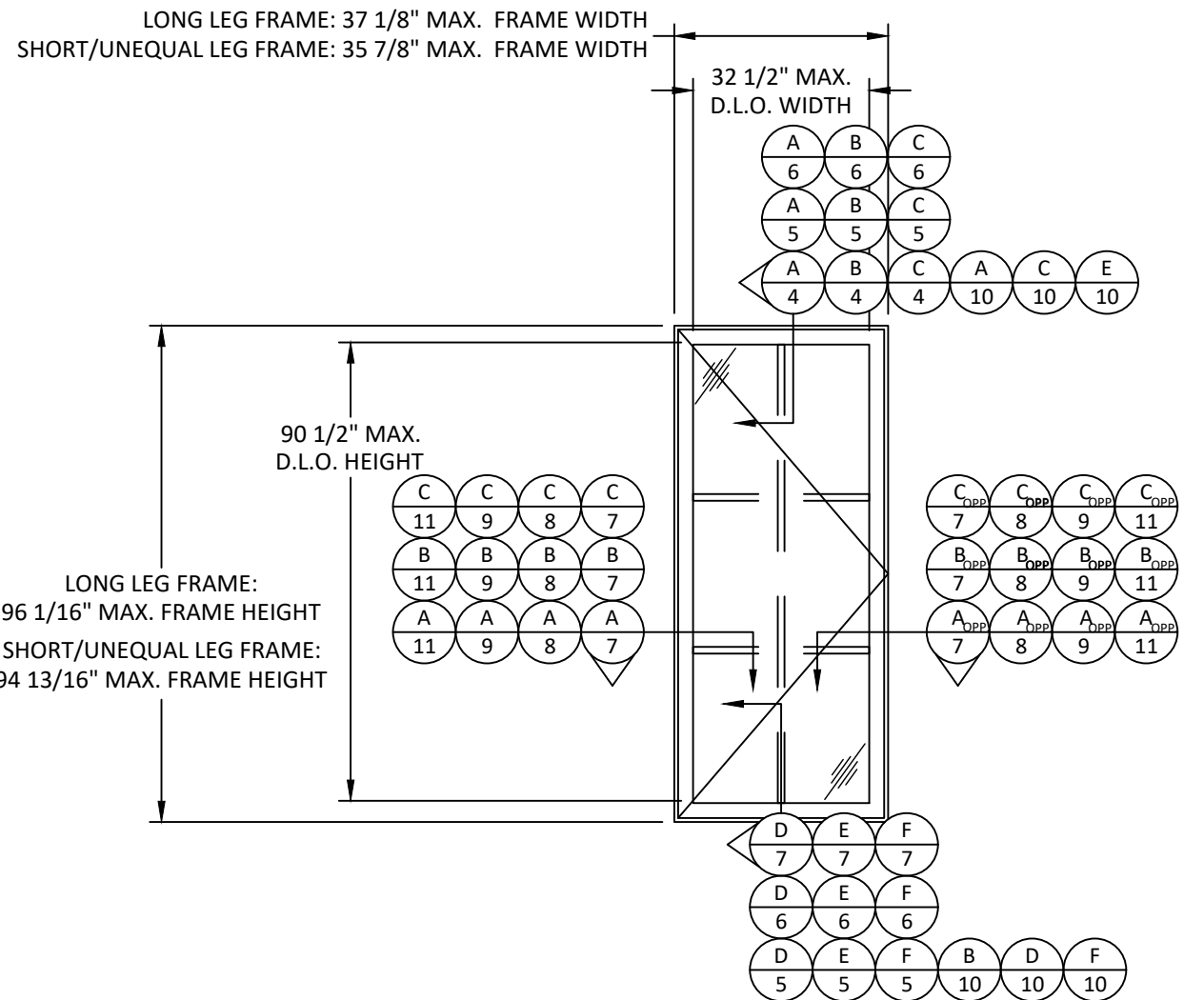
EXTERIOR ELEVATION VIEW



DOUBLE OUTSWING CASEMENT WINDOW

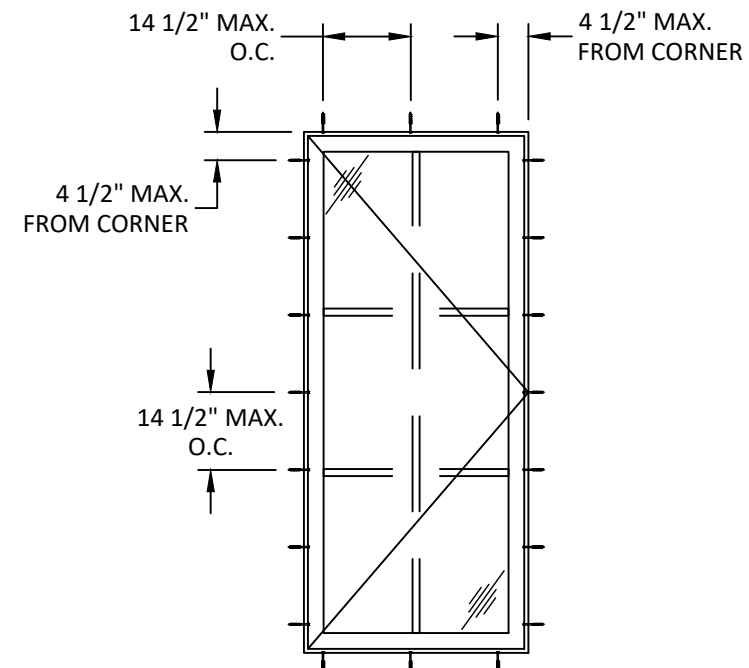
ANCHOR SPACING

NOTE: SPACING SHOWN APPLIES FOR THROUGH FRAME, STRAP AND FLANGE INSTALLATION



SINGLE OUTSWING CASEMENT WINDOW

EXTERIOR ELEVATION VIEW



SINGLE OUTSWING CASEMENT WINDOW

ANCHOR SPACING



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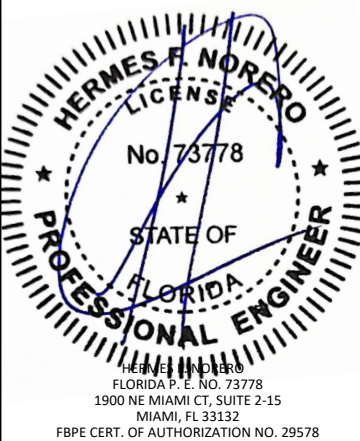
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CASEMENT WINDOW
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ELEVATIONS AND ANCHOR
LOCATIONS

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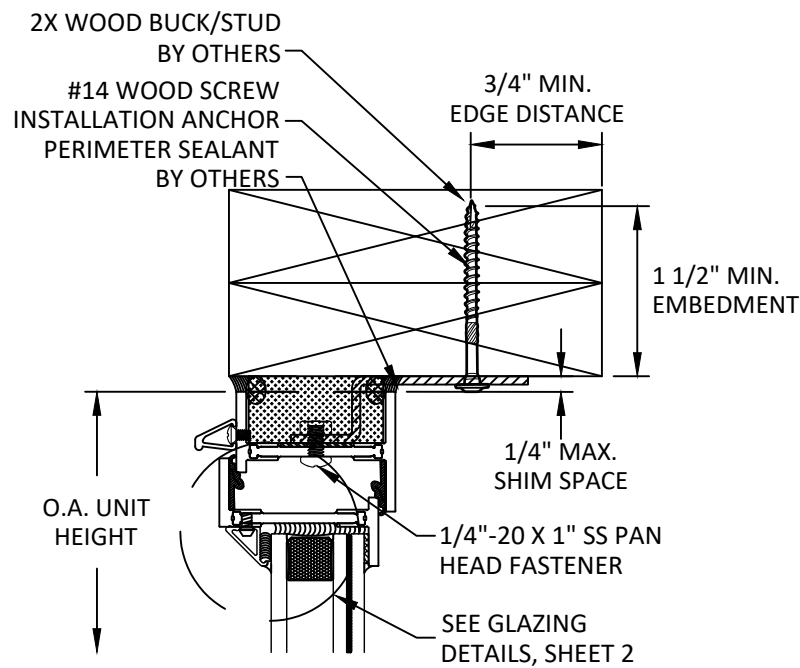
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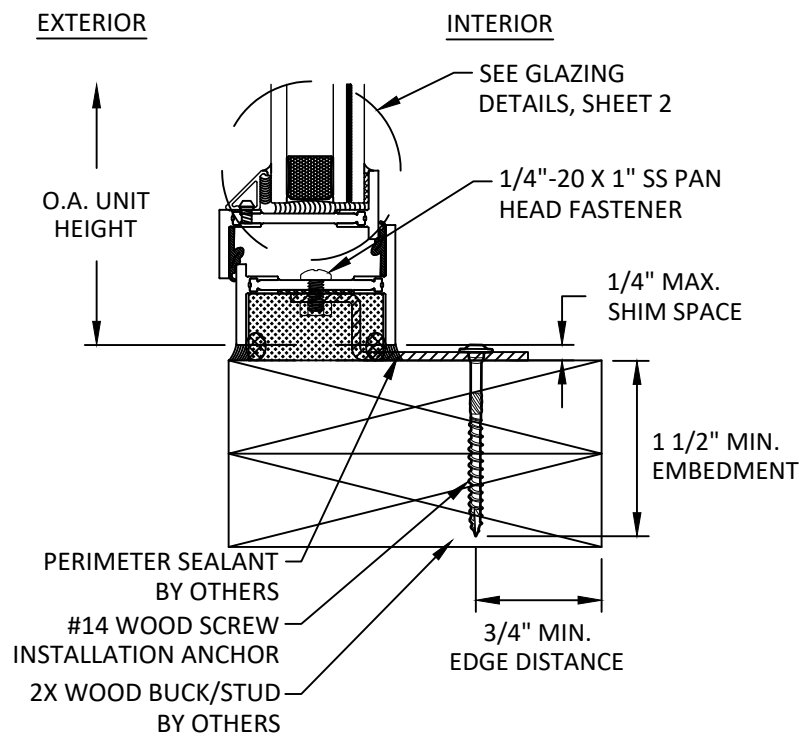
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EXTERIOR

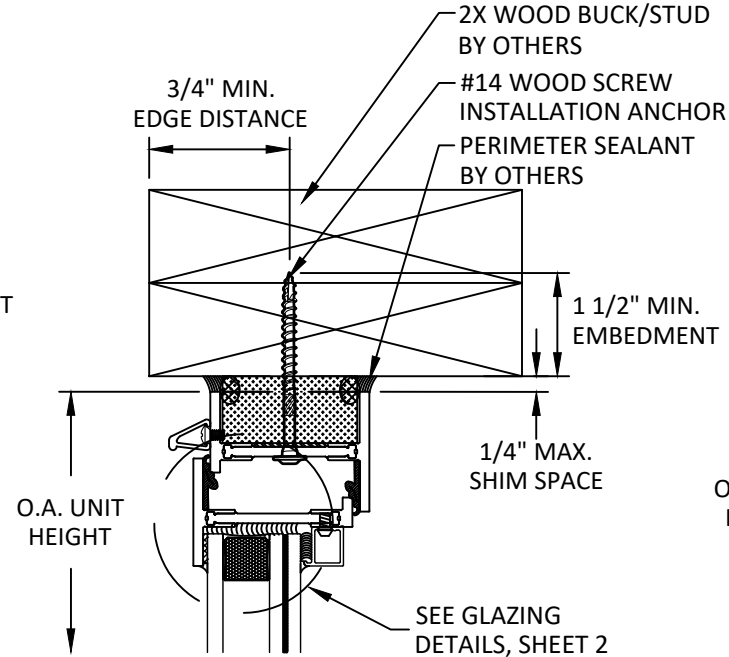
INTERIOR

A
4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
STRAP INSTALLATION
LONG LEG FRAME



D
4

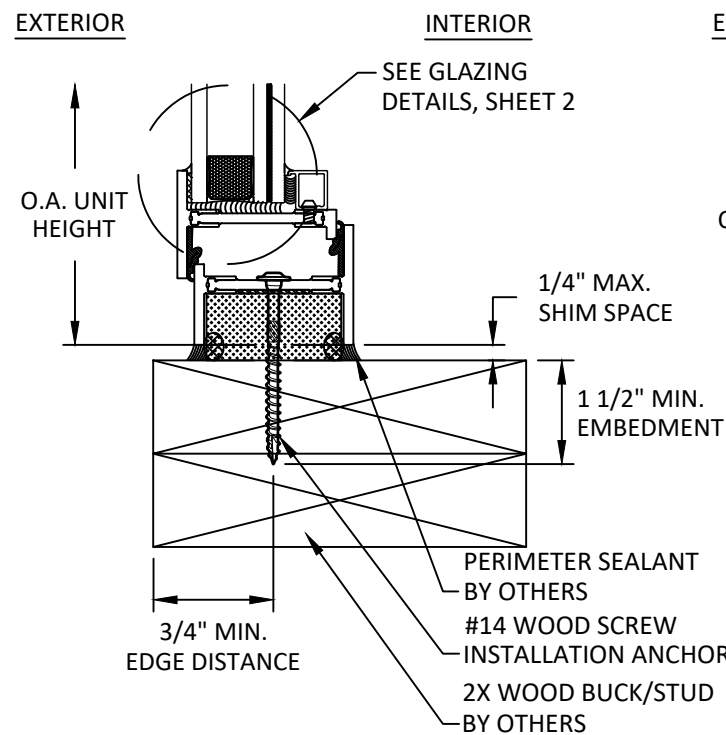
VERTICAL SECTION
SILL - 2X WOOD BUCK
STRAP INSTALLATION
LONG LEG FRAME



EXTERIOR

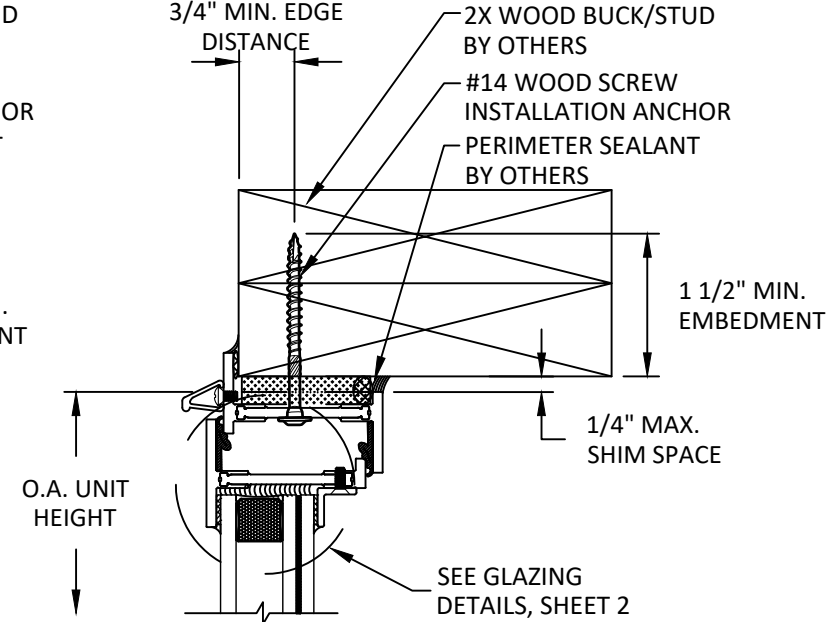
INTERIOR

B
4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
THROUGH FRAME INSTALLATION
LONG LEG FRAME



E
4

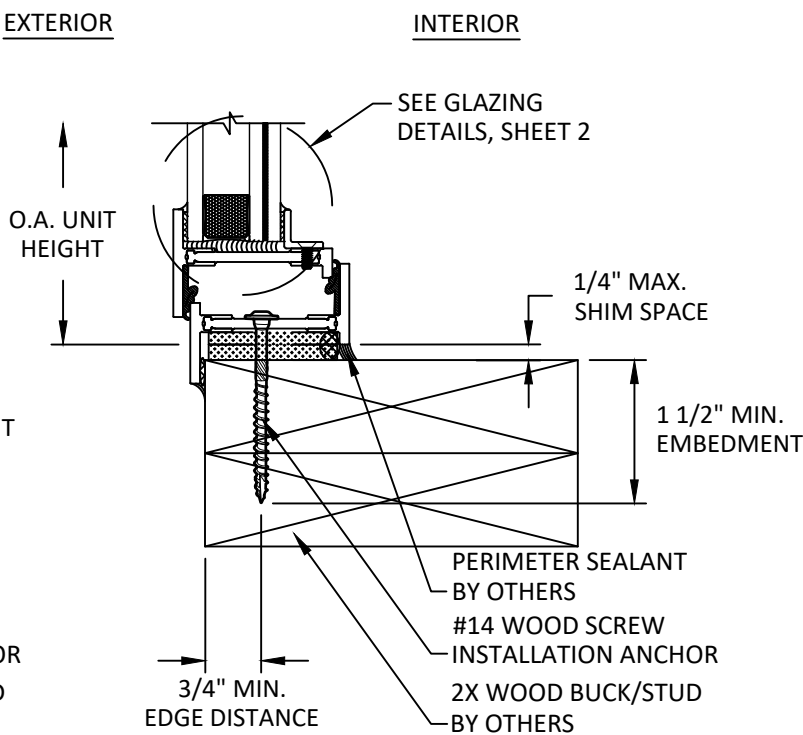
VERTICAL SECTION
SILL - 2X WOOD BUCK
THROUGH FRAME INSTALLATION
LONG LEG FRAME



EXTERIOR

INTERIOR

C
4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
FLANGE INSTALLATION
UNEQUAL LEG FRAME



F
4

VERTICAL SECTION
SILL - 2X WOOD BUCK
FLANGE INSTALLATION
UNEQUAL LEG FRAME



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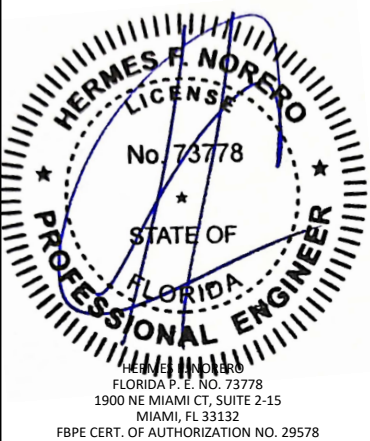
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CASEMENT WINDOW
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VERTICAL SECTIONS - 2X
WOOD BUCK

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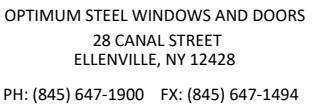
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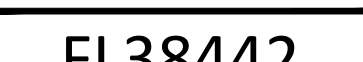
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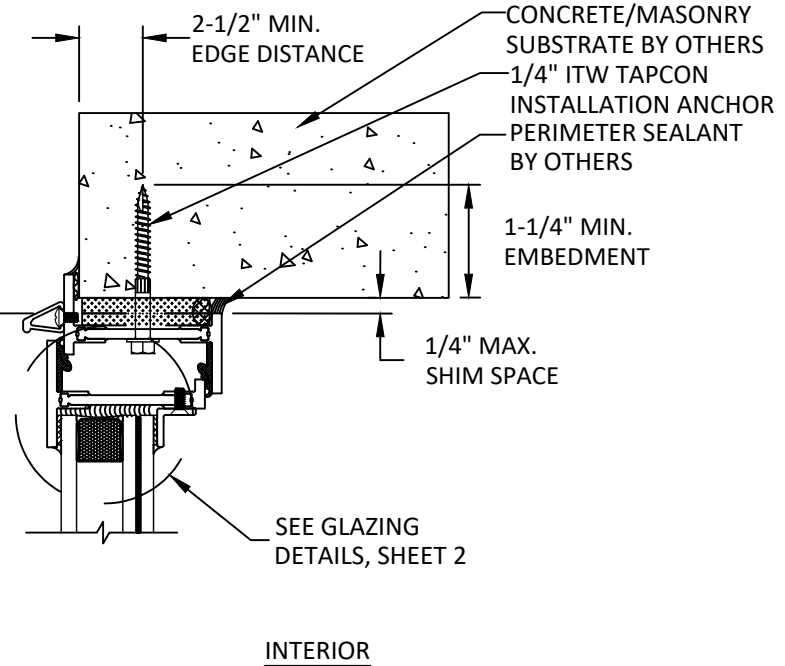


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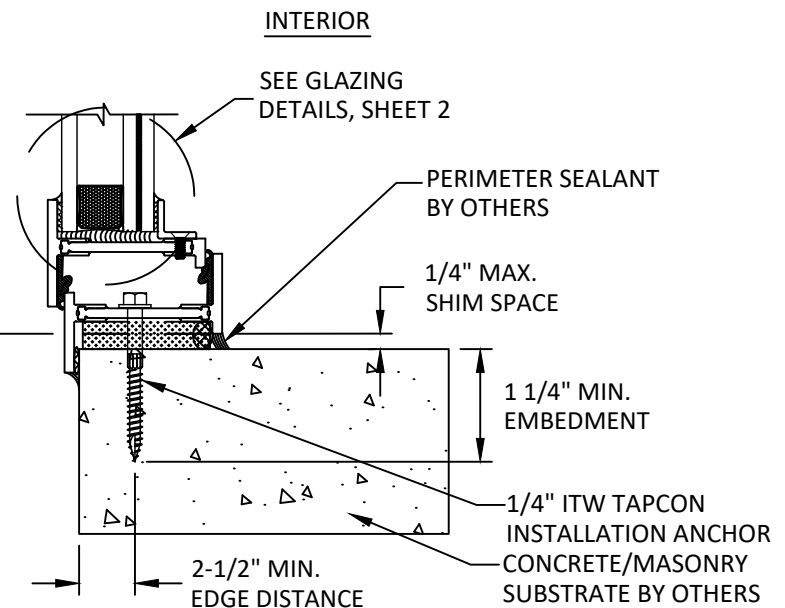
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5



VERTICAL SECTION HEAD - CONCRETE/MASONRY FLANGE INSTALLATION UNEQUAL LEG FRAME



VERTICAL SECTION **SILL - CONCRETE/MASONRY** **FLANGE INSTALLATION** **UNEQUAL LEG FRAME**



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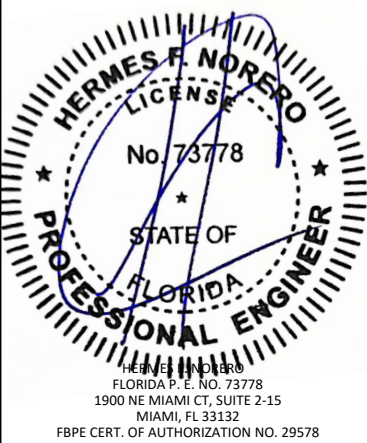
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VERTICAL SECTIONS -
METAL STUD

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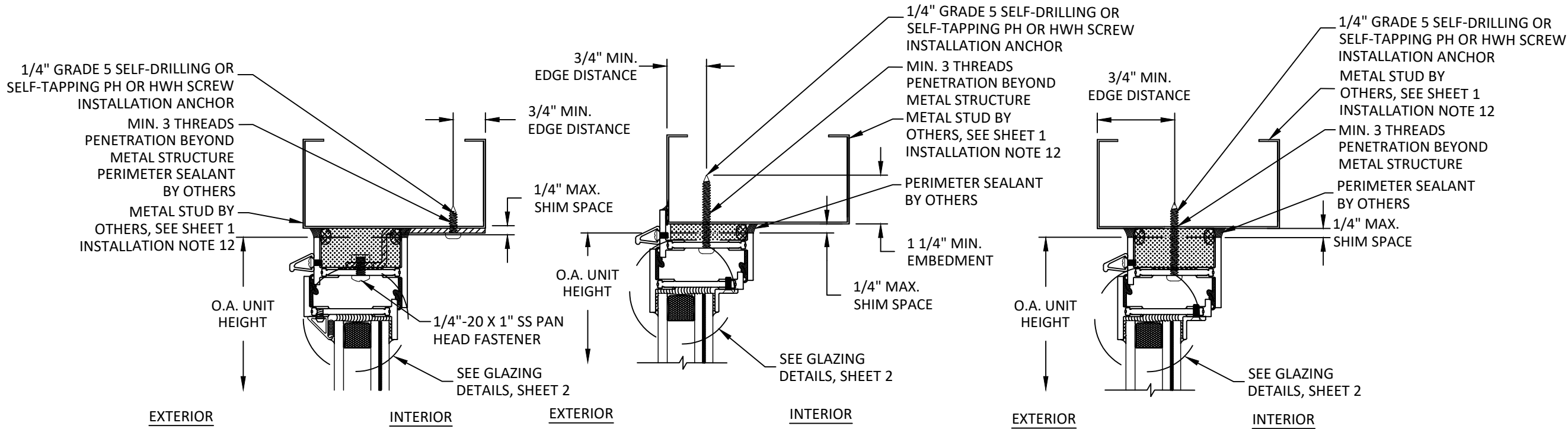
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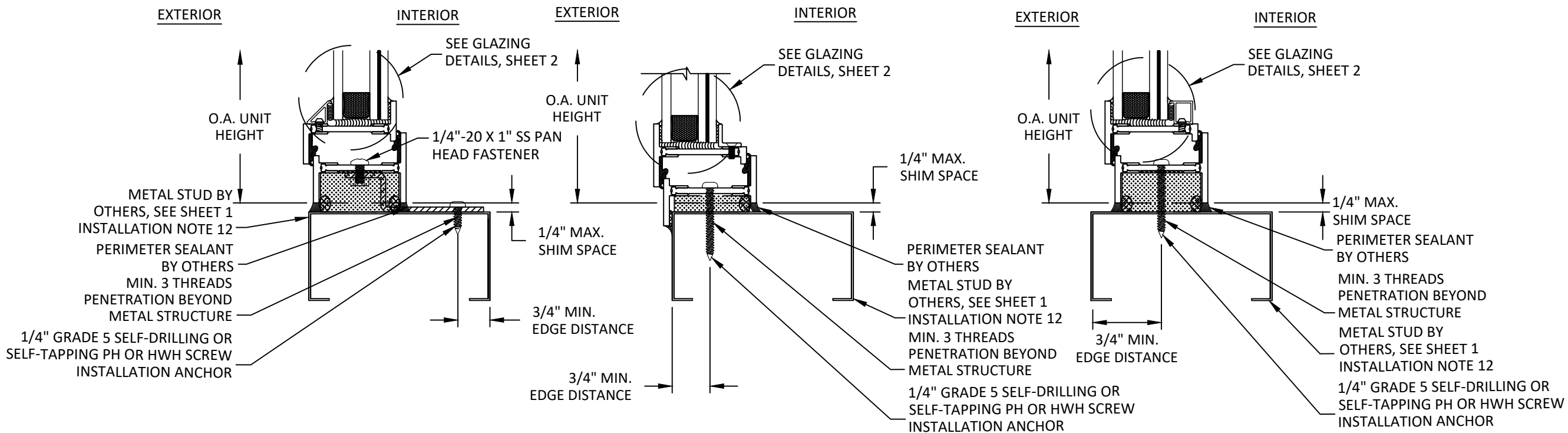
6



A
6
VERTICAL SECTION
HEAD - METAL STUD
STRAP INSTALLATION
LONG LEG FRAME

B
6
VERTICAL SECTION
HEAD - METAL STUD
FLANGE INSTALLATION
UNEQUAL LEG FRAME

C
6
VERTICAL SECTION
HEAD - METAL STUD
THROUGH FRAME INSTALLATION
LONG LEG FRAME

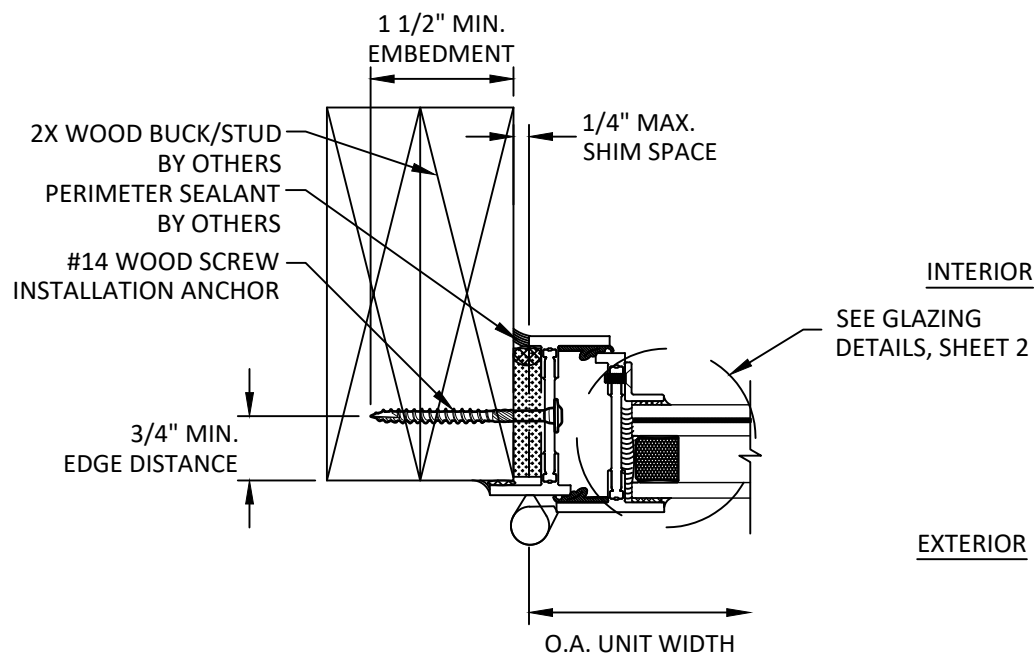


D
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VERTICAL SECTION
SILL - METAL STUD
STRAP INSTALLATION
LONG LEG FRAME

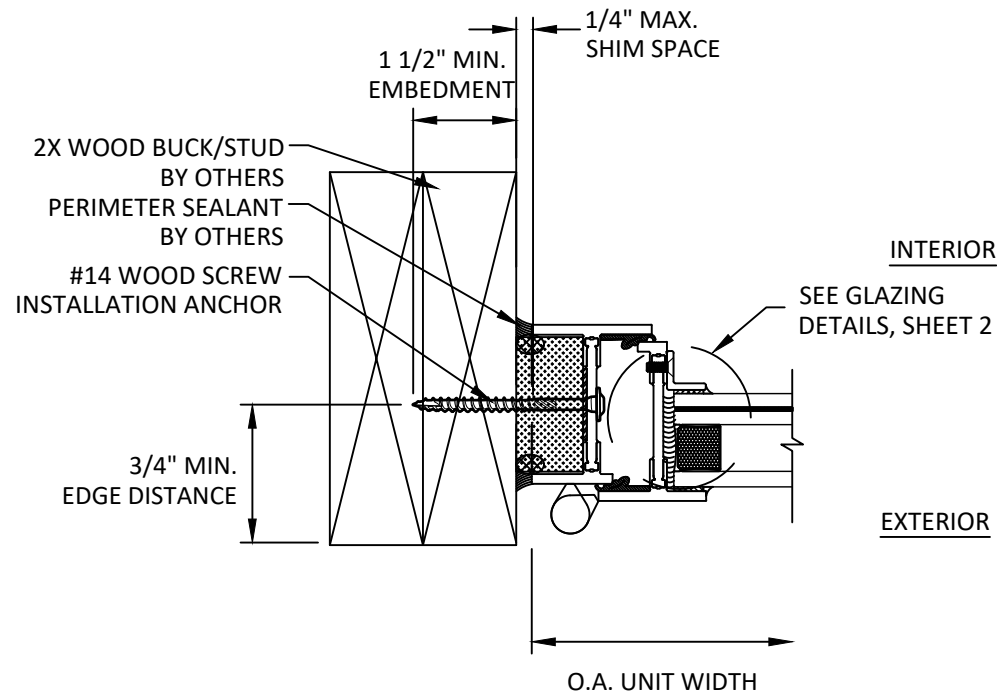
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VERTICAL SECTION
SILL - METAL STUD
FLANGE INSTALLATION
UNEQUAL LEG FRAME

F
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VERTICAL SECTION
SILL - METAL STUD
THROUGH FRAME INSTALLATION
LONG LEG FRAME

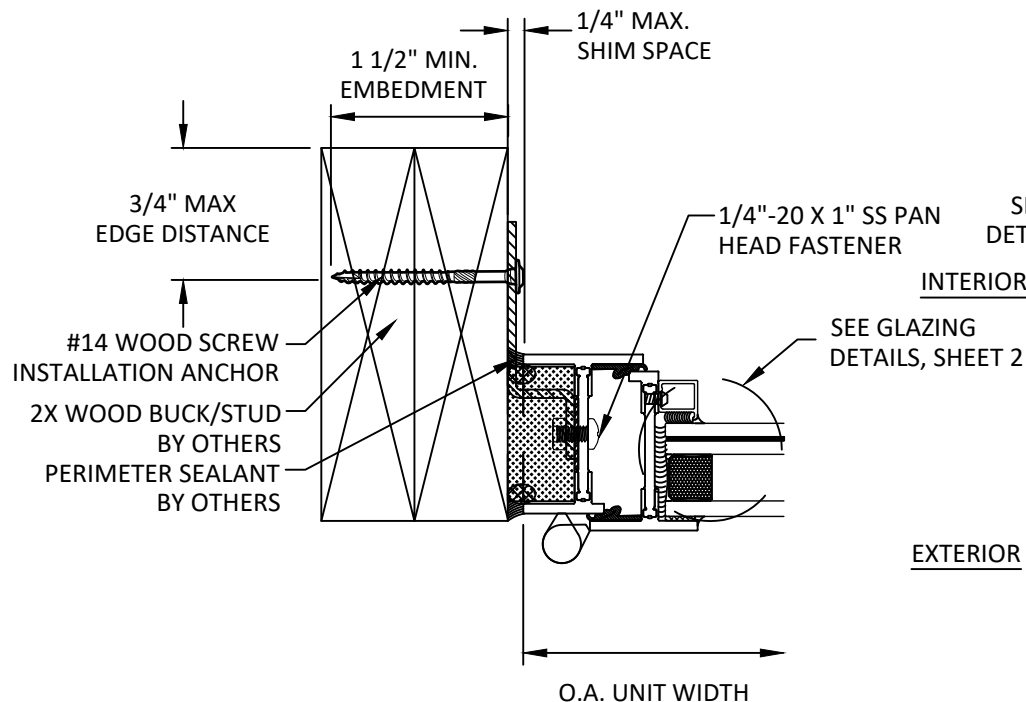
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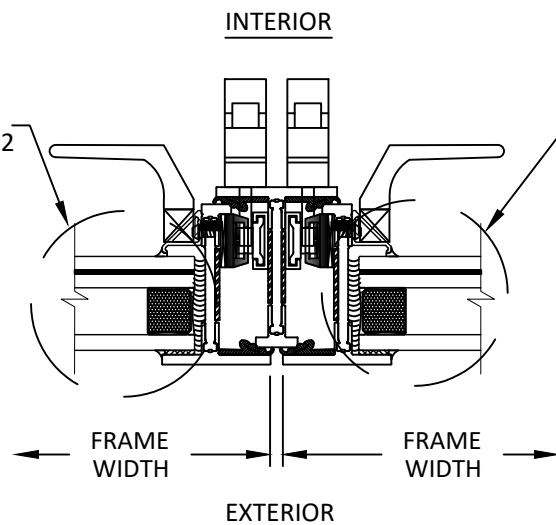
A
7 **HORIZONTAL SECTION**
JAMB- 2X WOOD BUCK
FLANGE INSTALLATION
UNEQUAL LEG FRAME



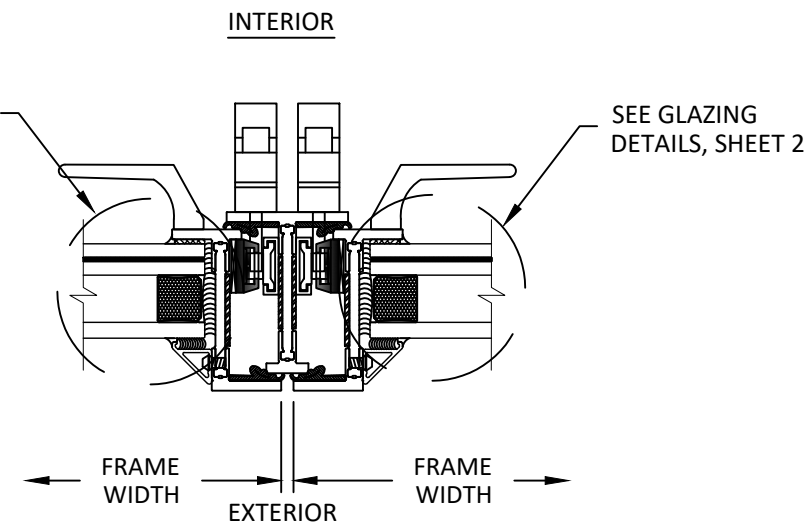
C
7 **HORIZONTAL SECTION**
JAMB- 2X WOOD BUCK
THROUGH FRAME INSTALLATION
LONG LEG FRAME



B
7 **HORIZONTAL SECTION**
JAMB- 2X WOOD BUCK
STRAP INSTALLATION
LONG LEG FRAME



D
7 **HORIZONTAL SECTION**
CENTER STILES
INTERIOR GLAZED
LONG LEG FRAME



E
7 **HORIZONTAL SECTION**
CENTER STILES
EXTERIOR GLAZED
LONG LEG FRAME

TITLE: RTS-430i STAINLESS STEEL
CASEMENT WINDOW
(HVHZ)(IMPACT)
HORIZONTAL SECTIONS - 2X WOOD
BUCK & CENTER STILES

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

B.D.
BUILDING DROPS

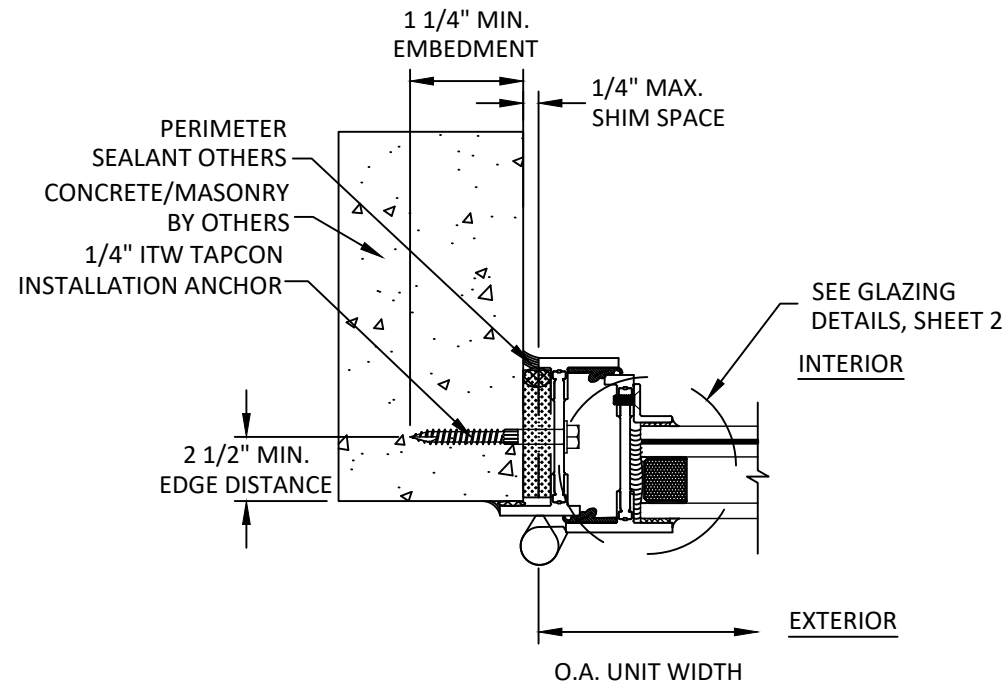
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MISC. REVISION	MS	01/26

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO
FLORIDA P. E. NO. 73778
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

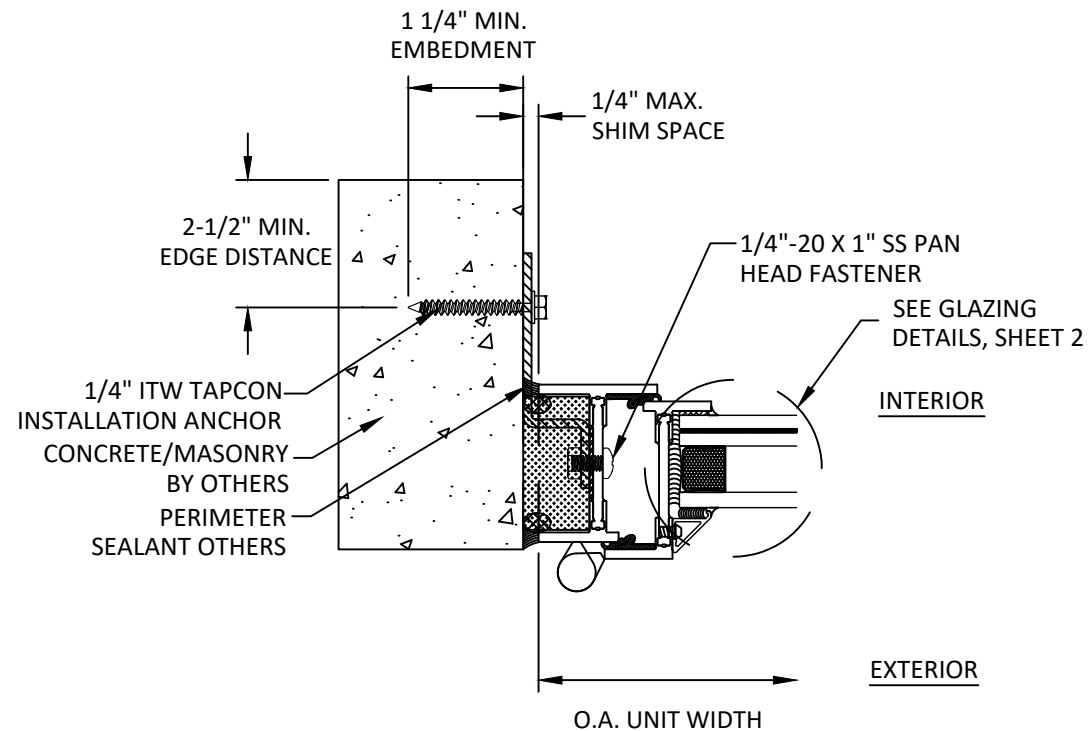
FL38442	
DATE: 12/22/16	
DWG. BY: AM	CHK. BY: SM
SCALE: NTS	
DWG. #: OPW002	
SHEET:	OF 11

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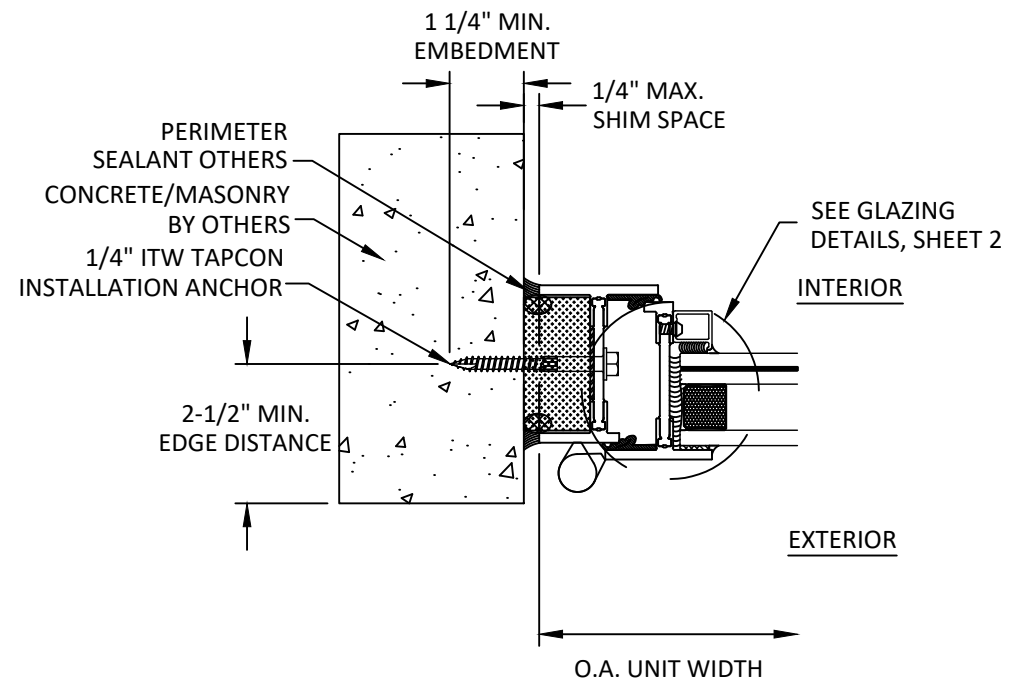
A
8 **HORIZONTAL SECTION**

JAMB- CONCRETE/MASONRY
FLANGE INSTALLATION
UNEQUAL LEG FRAME



B
8 **HORIZONTAL SECTION**

JAMB- CONCRETE/MASONRY
STRAP INSTALLATION
LONG LEG FRAME



C
8 **HORIZONTAL SECTION**

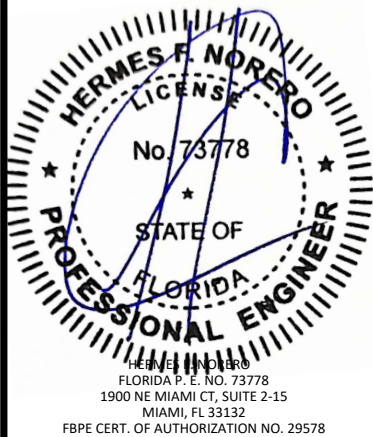
JAMB- CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
LONG LEG FRAME

TITLE: RTS-430I STAINLESS STEEL
CASEMENT WINDOW
(HVHZ)/(IMPACT)
HORIZONTAL SECTIONS -
CONCRETE/MASONRY

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 BUILDING DROPS, INC.
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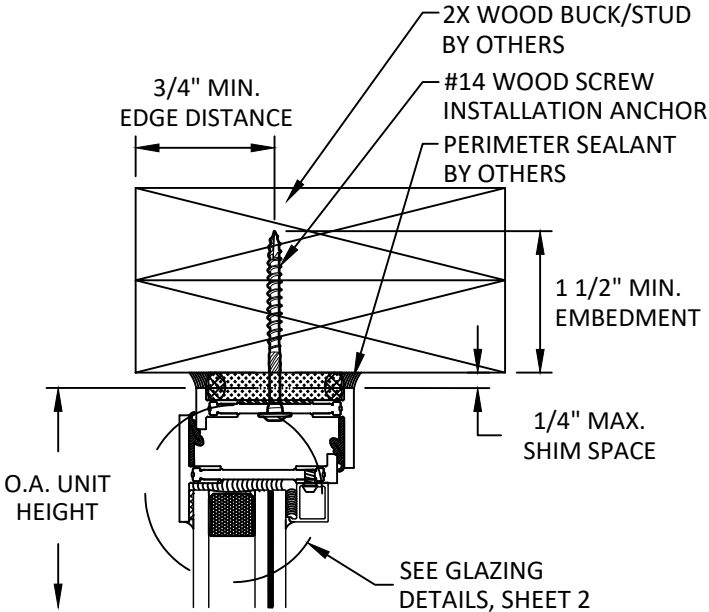

BUILDING DROPS

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C9 HORIZONTAL SECTION

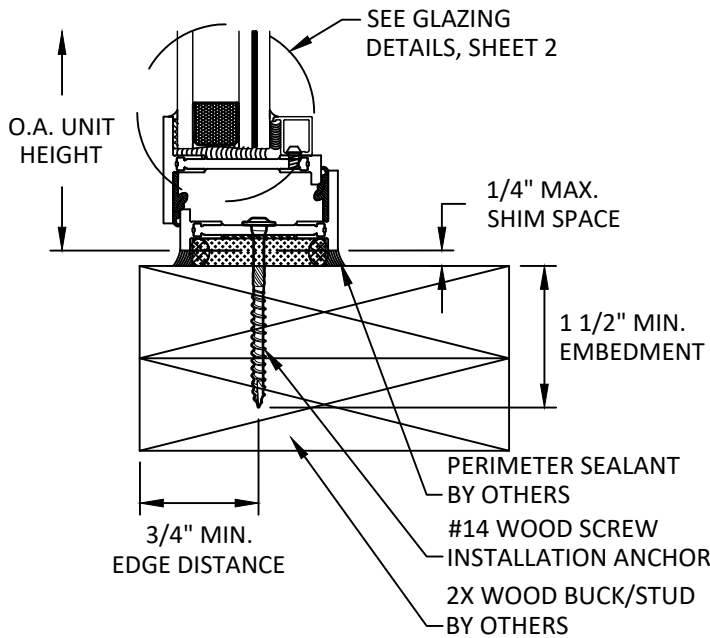
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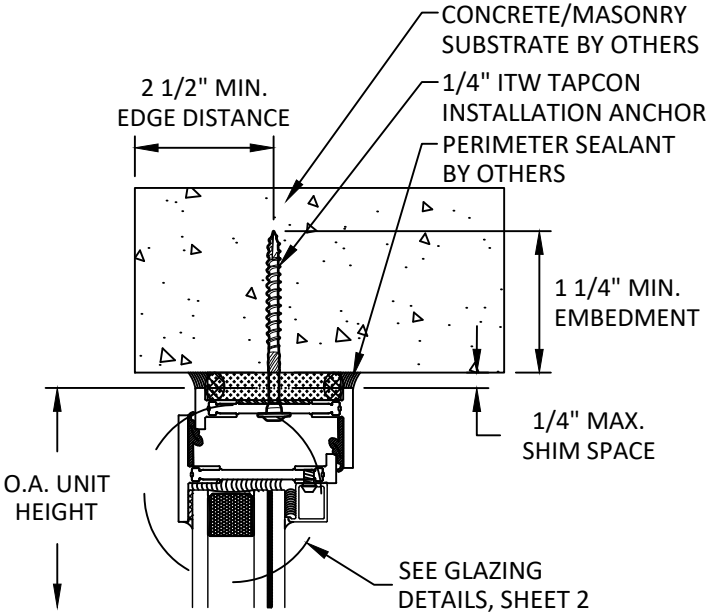
EXTERIOR INTERIOR

A
10 VERTICAL SECTION
HEAD - 2X WOOD BUCK
THROUGH FRAME INSTALLATION
SHORT LEG FRAME

EXTERIOR INTERIOR



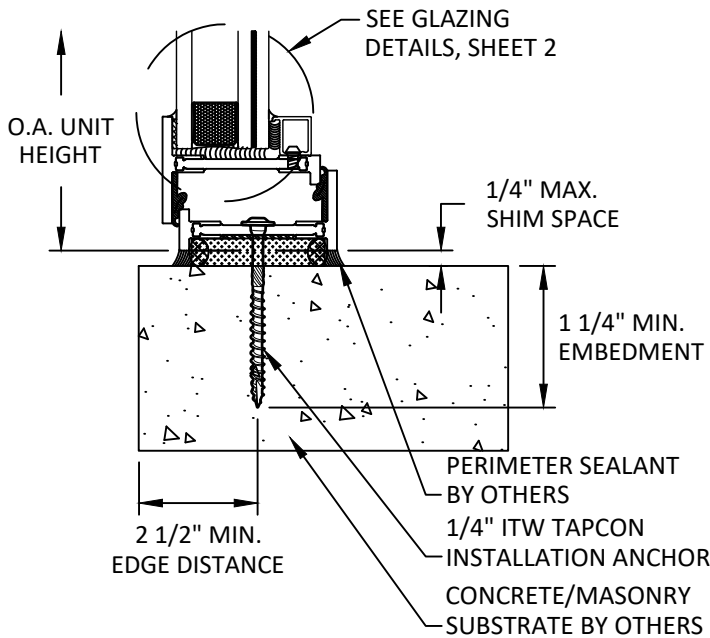
B
10 VERTICAL SECTION
SILL - 2X WOOD BUCK
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



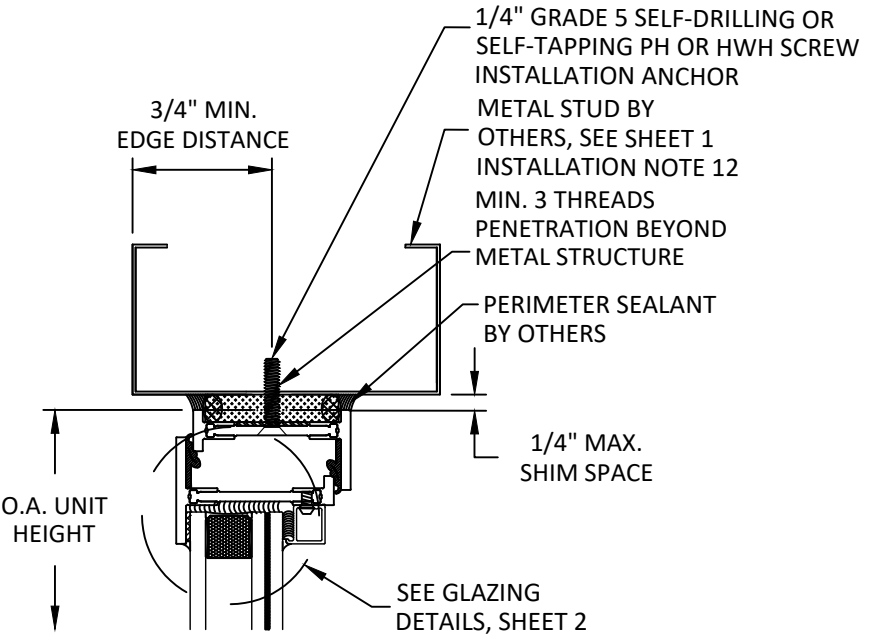
EXTERIOR INTERIOR

C
10 VERTICAL SECTION
HEAD - CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
SHORT LEG FRAME

EXTERIOR INTERIOR



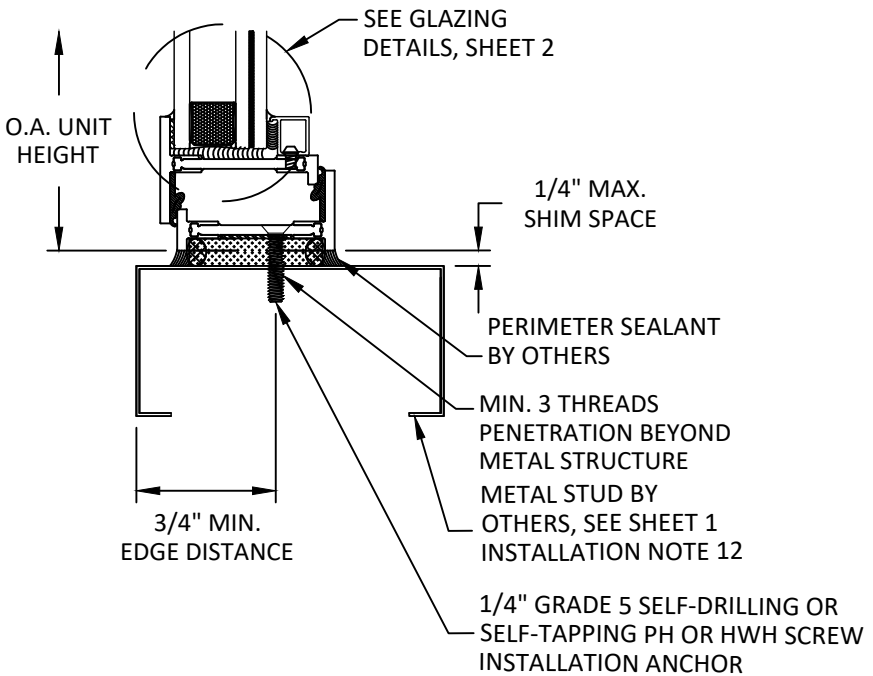
D
10 VERTICAL SECTION
SILL - CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



EXTERIOR INTERIOR

E
10 VERTICAL SECTION
HEAD - METAL STUD
THROUGH FRAME INSTALLATION
SHORT LEG FRAME

EXTERIOR INTERIOR



F
10 VERTICAL SECTION
SILL - METAL STUD
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428
PH: (845) 647-1900 FX: (845) 647-1494

TITLE: RTS-430I STAINLESS STEEL CASEMENT WINDOW (HVHZ)/(IMPACT) VERTICAL SECTIONS

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1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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CHK. BY: SM

SCALE: NTS

DWG. #: OPW002

SHEET: 10 OF 11



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428

PH: (845) 647-1900 FX: (845) 647-1494

TITLE: RTS-430I STAINLESS STEEL
CASEMENT WINDOW
(HVHZ)/(IMPACT)

HORIZONTAL SECTIONS

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BUILDING DROPS, INC.

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MIAMI, FL 33132

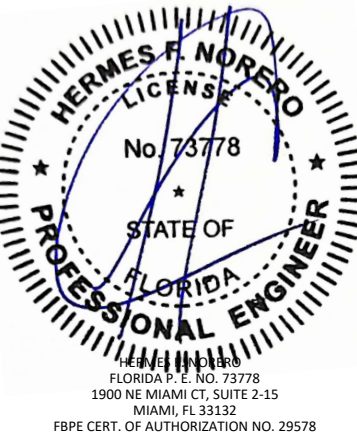
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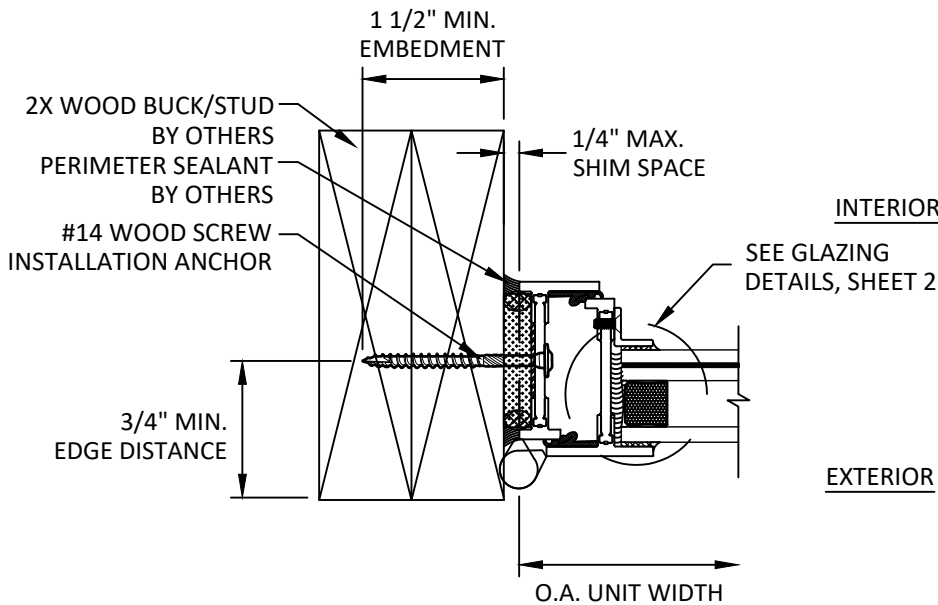
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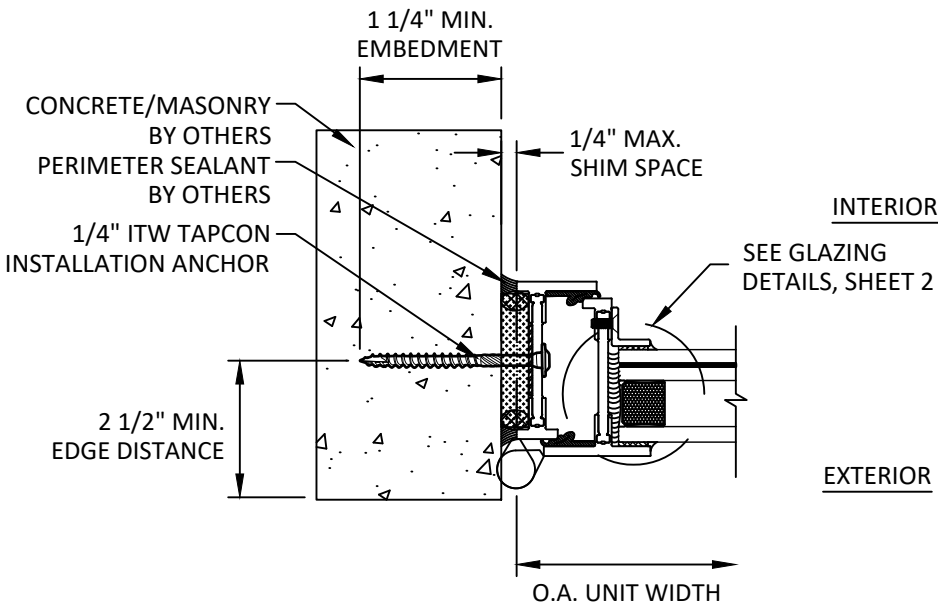
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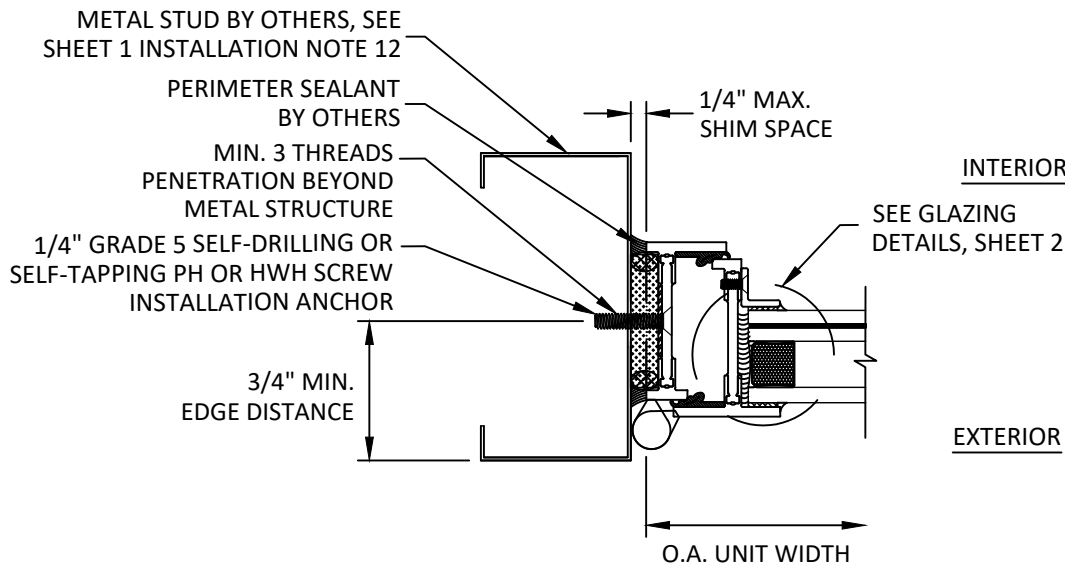
11



A HORIZONTAL SECTION
11 JAMB- 2X WOOD BUCK
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



B HORIZONTAL SECTION
11 JAMB- CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



C HORIZONTAL SECTION
11 JAMB- METAL STUD
THROUGH FRAME INSTALLATION
SHORT LEG FRAME