

OPTIMUM STEEL WINDOWS AND DOORS

RTS-430i STAINLESS STEEL FRENCH 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 $\pm 1/2$ 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:
 - ASTM E283-19
 - ASTM E330-14(21)
 - ASTM E331-00(16)
 - 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 INCLUDING HVHZ AREAS
- 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.

NOTE:

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

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11	VERTICAL SECTIONS
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DESIGN PRESSURE RATING		
FRAME SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
36" X 96"	+/- 65 PSF	SMALL & LARGE MISSILE IMPACT
72" X 96"		



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28 CANAL STREET
ELLENVILLE, NY 12428
PH: (845) 647-1900 FX: (845) 647-1494

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

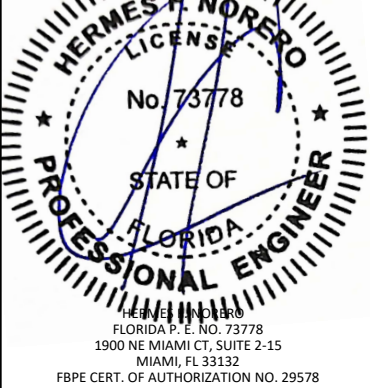
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.02.12 13:44:16 -0500



FL38442

DATE: 03/22/22

DWG. BY:
R.P.

CHK. BY:
HFN

SCALE: NTS

DWG. #: OPW015

SHEET: OF 12

1



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GLAZING DETAILS

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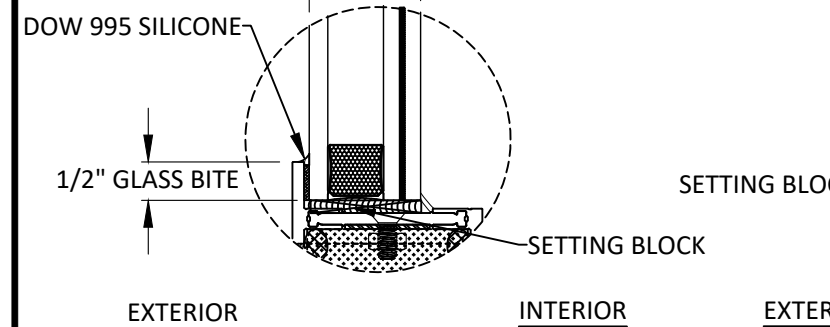
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1 1/2" O.A. IG CONSISTING OF:
1/4" TEMPERED
13/16" ALUMINUM SPACER
3/16" CLEAR HS
0.090" SENTRYGLAS INTERLAYER
BY KURARAY AMERICA
3/16" CLEAR HS

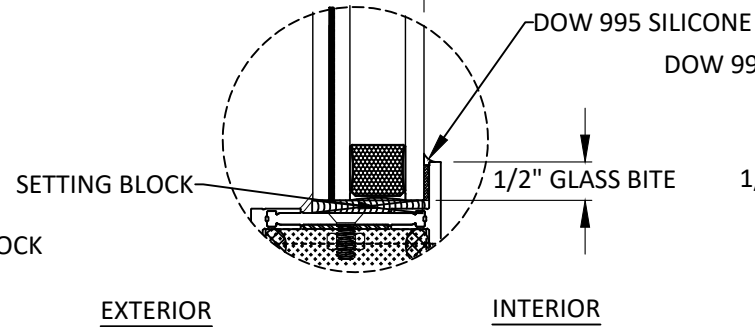
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3/16" CLEAR HS
0.090" SENTRYGLAS INTERLAYER
BY KURARAY AMERICA
3/16" CLEAR HS
13/16" ALUMINUM SPACER
1/4" TEMPERED

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

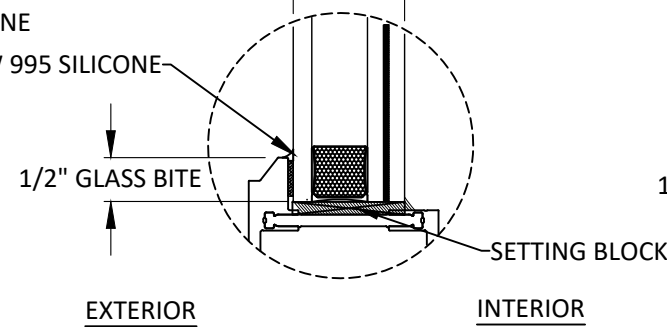
7/16" O.A. LAMINATED GLASS
CONSISTING OF:
3/16" HEAT STRENGTHENED GLASS
0.090" SENTRYGLAS INTERLAYER
BY KURARAY AMERICA
3/16" HEAT STRENGTHENED GLASS



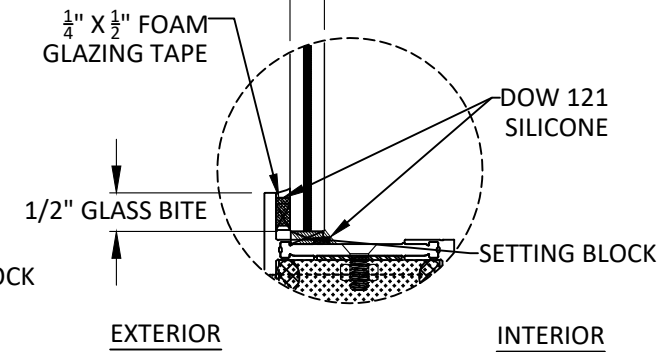
GLAZING DETAIL 1



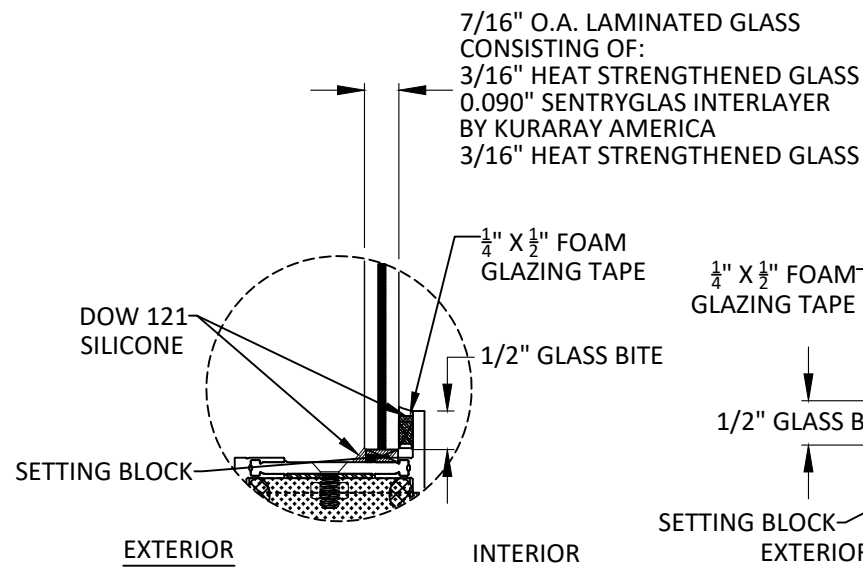
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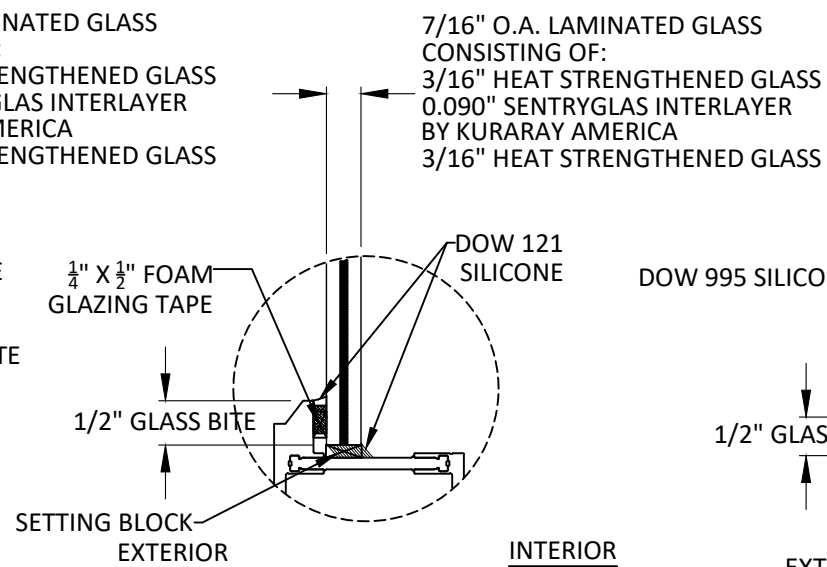
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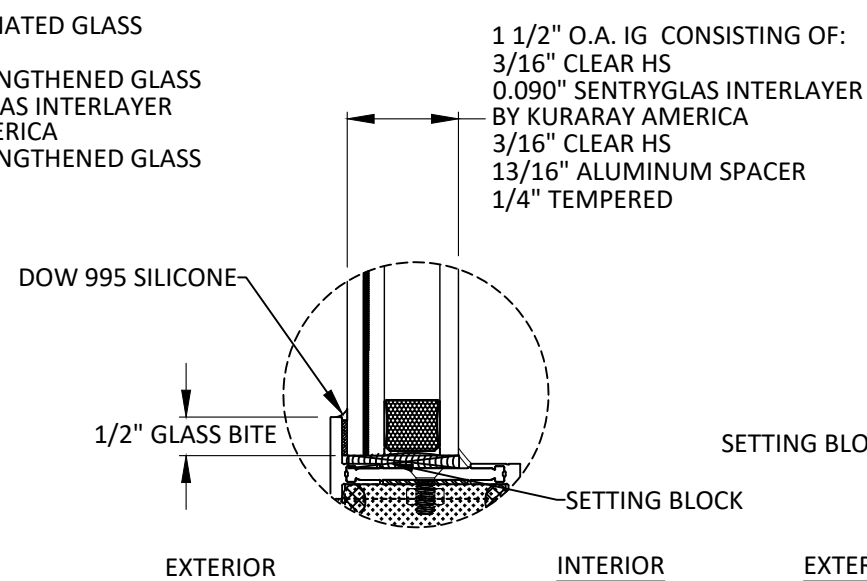
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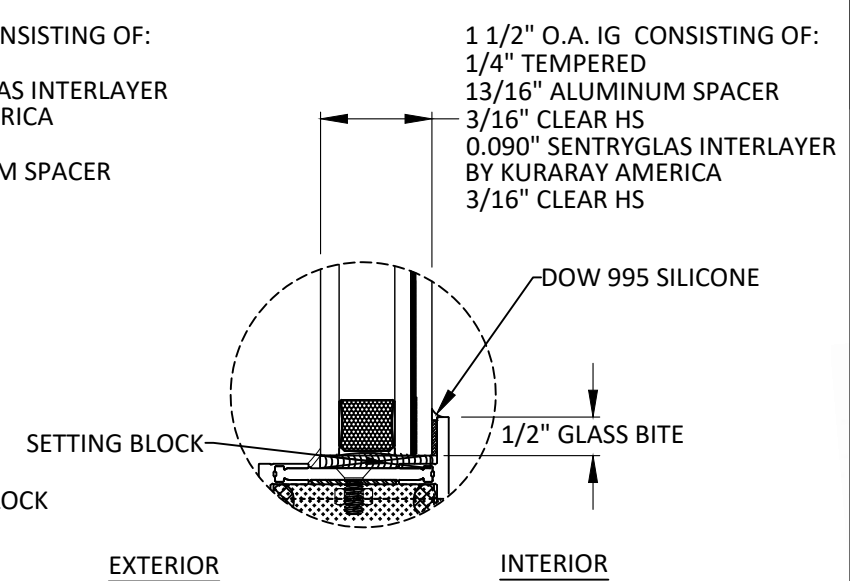
GLAZING DETAIL 5



GLAZING DETAIL 6

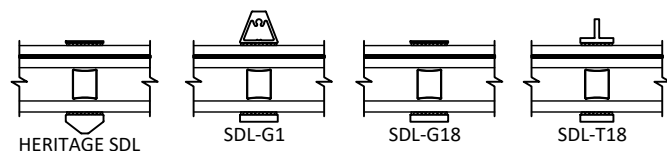


GLAZING DETAIL 7



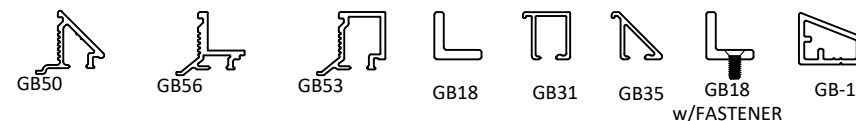
GLAZING DETAIL 8

SIMULATED MUNTIN:

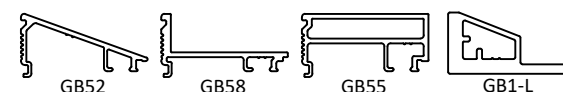


OTHER QUALIFIED GLAZING BEADS:

INSULATED GLAZING BEAD OPTIONS

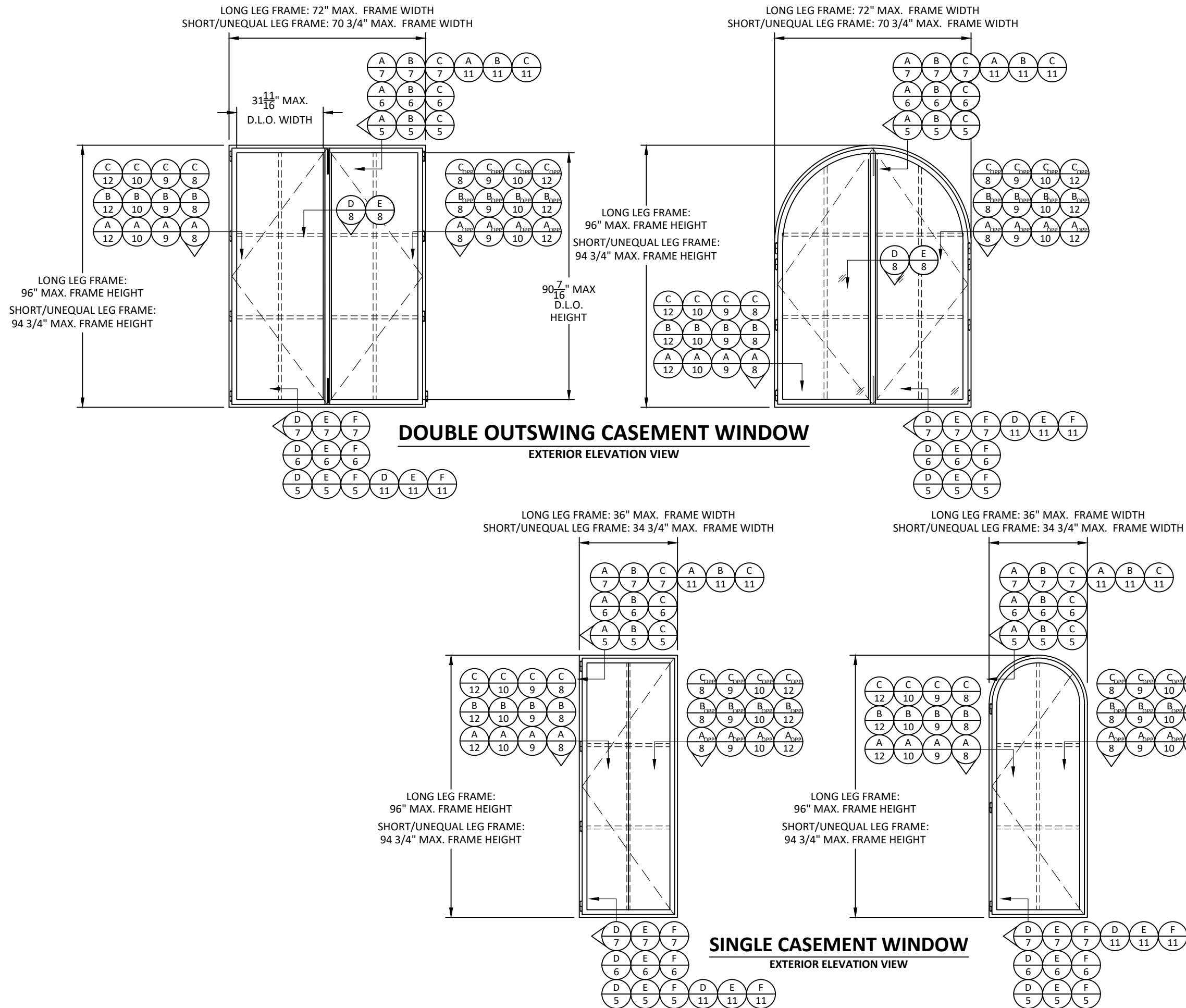


MONOLITHIC GLAZING BEAD OPTIONS



NOTES:

- GLASS TYPE AND THICKNESS COMPLIES 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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ELEVATIONS

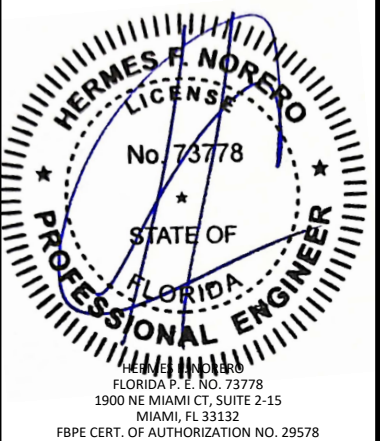
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CHK. BY: HFN

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SHEET: OF 12

3



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ANCHOR LAYOUTS

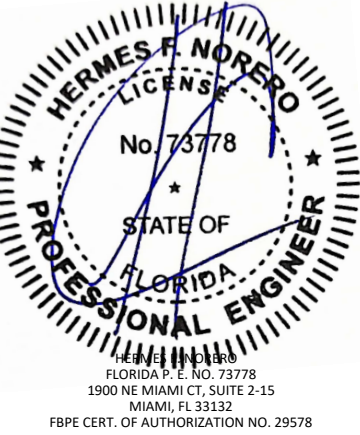
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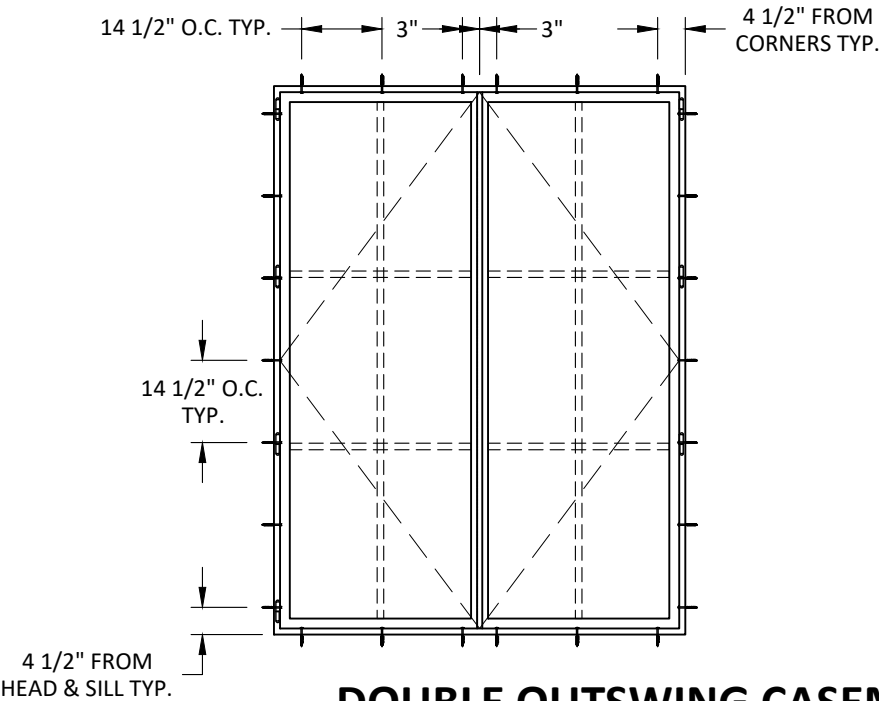
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SCALE: NTS

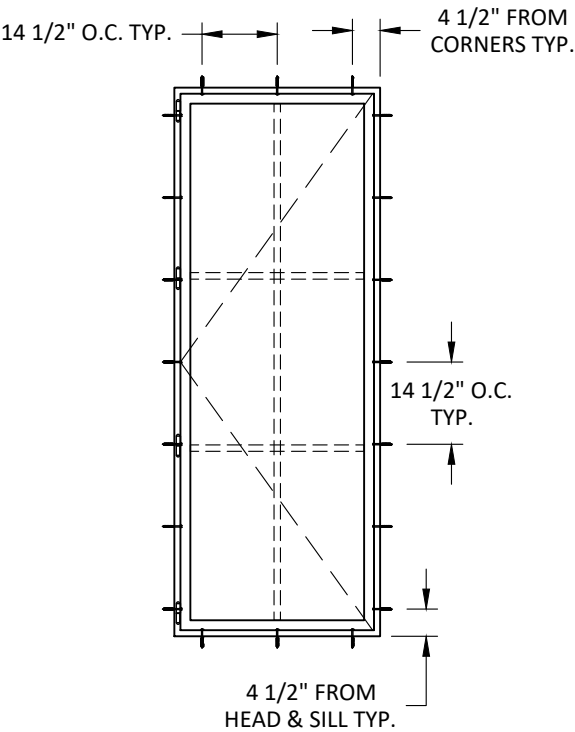
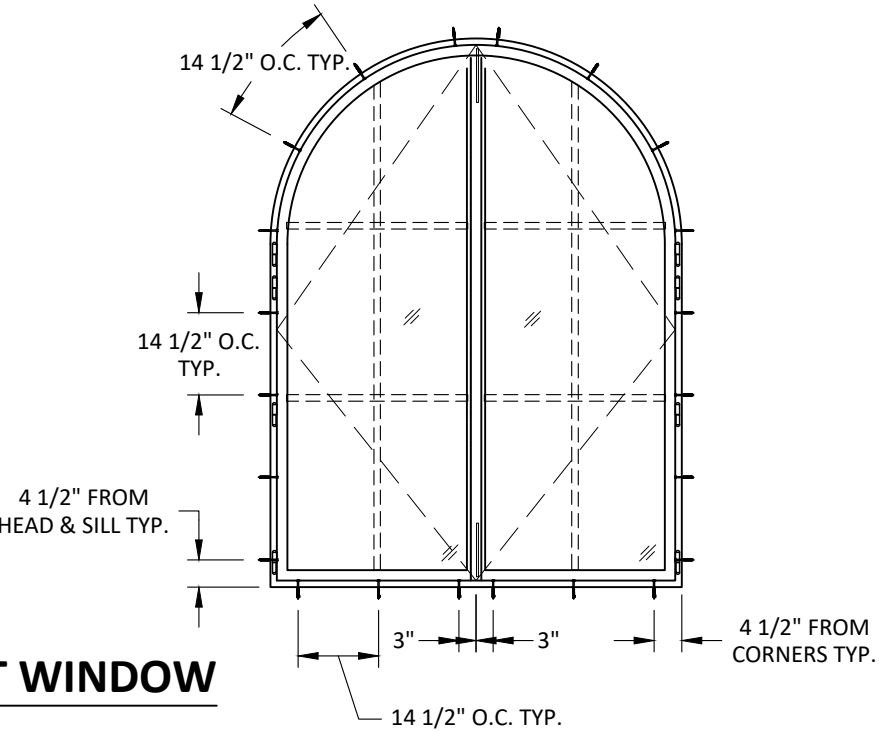
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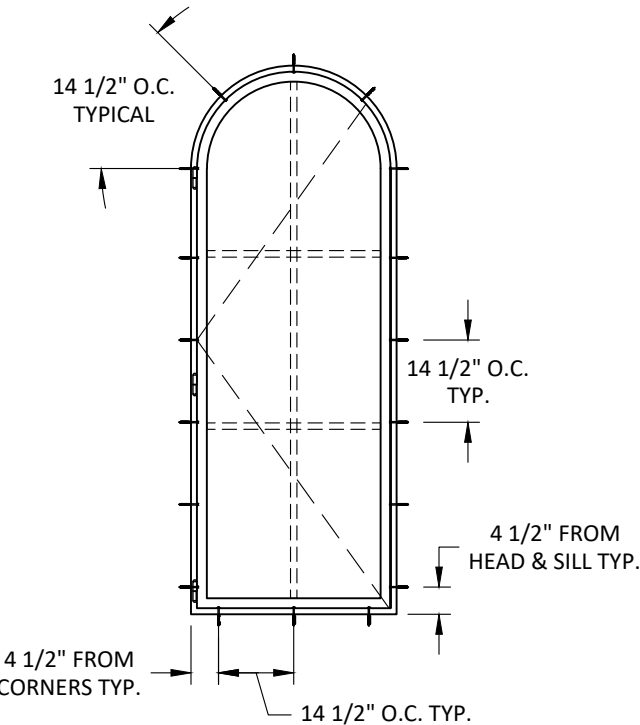
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DOUBLE OUTSWING CASEMENT WINDOW
ANCHOR LAYOUT



SINGLE CASEMENT WINDOW
ANCHOR LAYOUT





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VERTICAL SECTIONS - 2X
WOOD BUCK

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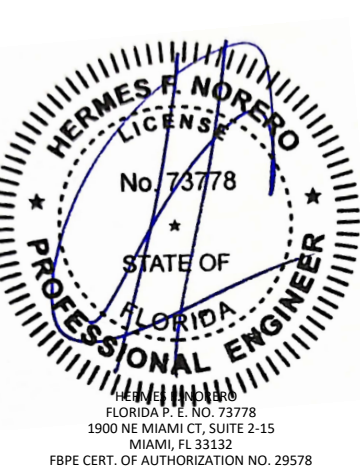
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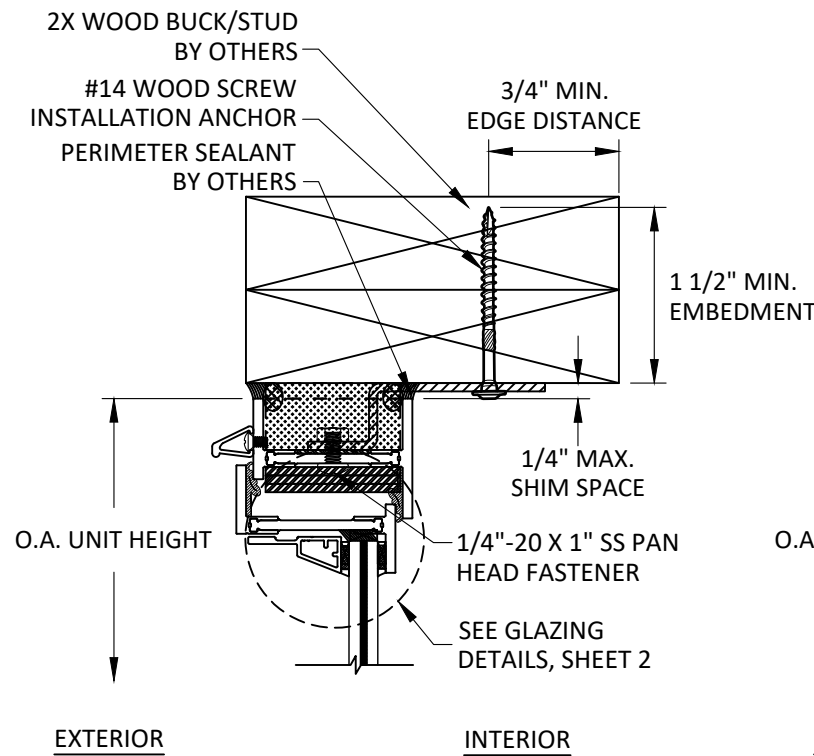
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HFN

SCALE: NTS

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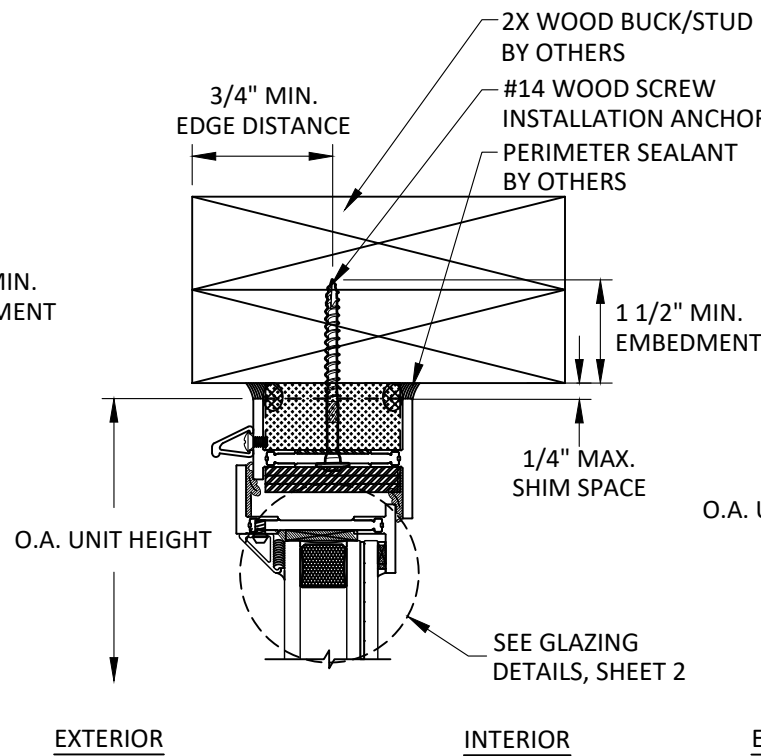
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A
5

VERTICAL SECTION

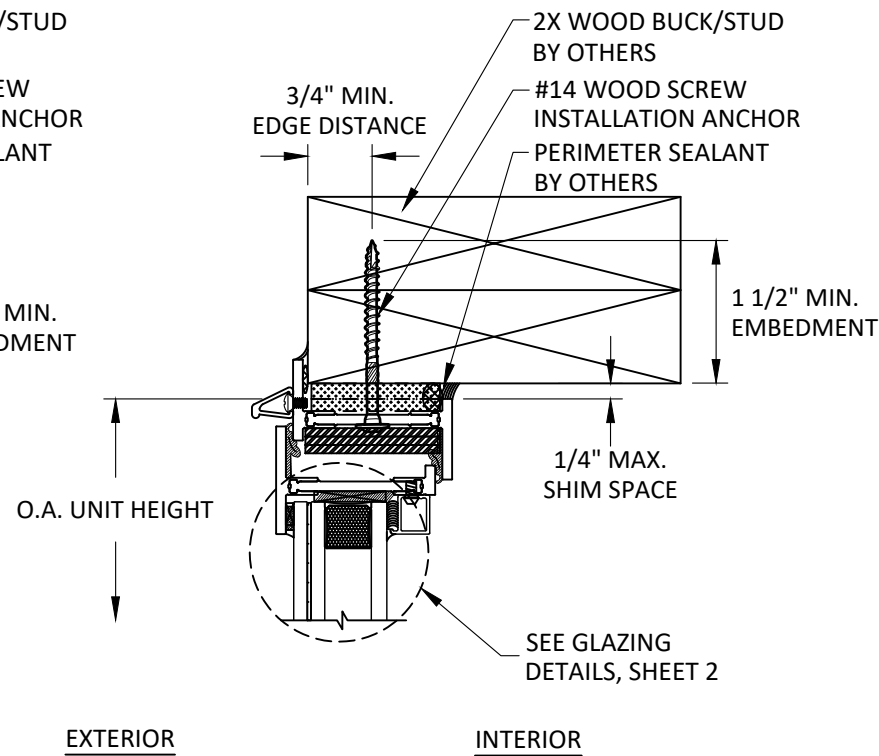
HEAD - 2X WOOD BUCK
STRAP INSTALLATION
LONG LEG FRAME



B
5

VERTICAL SECTION

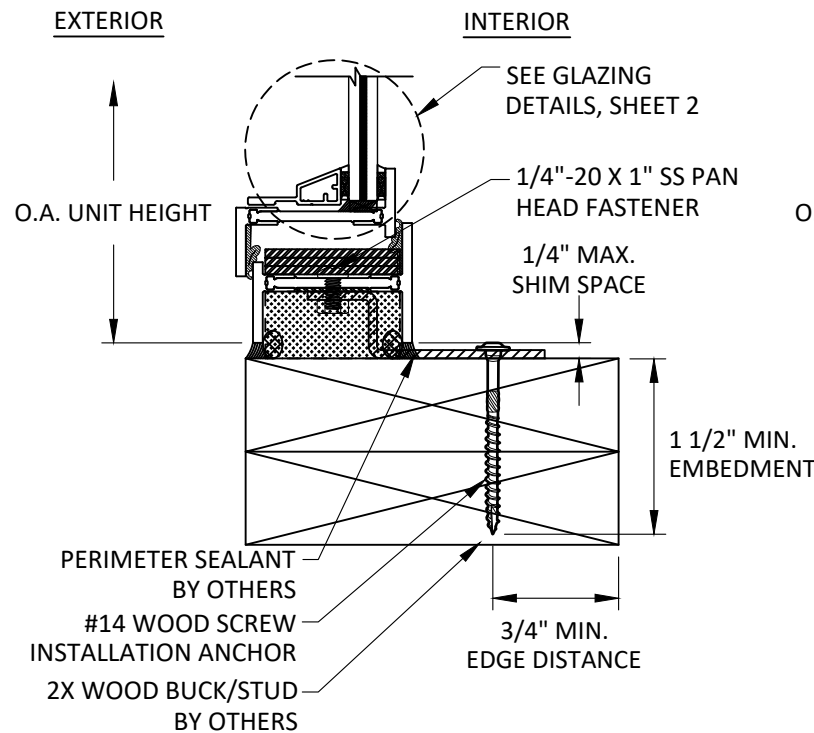
HEAD - 2X WOOD BUCK
THROUGH FRAME INSTALLATION
LONG LEG FRAME



C
5

VERTICAL SECTION

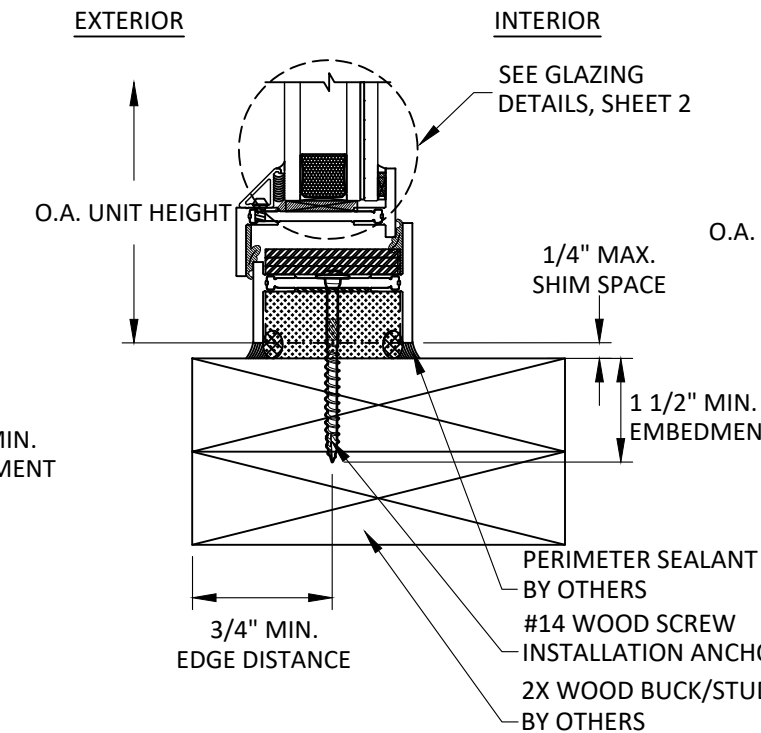
HEAD - 2X WOOD BUCK
FLANGE INSTALLATION
UNEQUAL LEG FRAME



D
5

VERTICAL SECTION

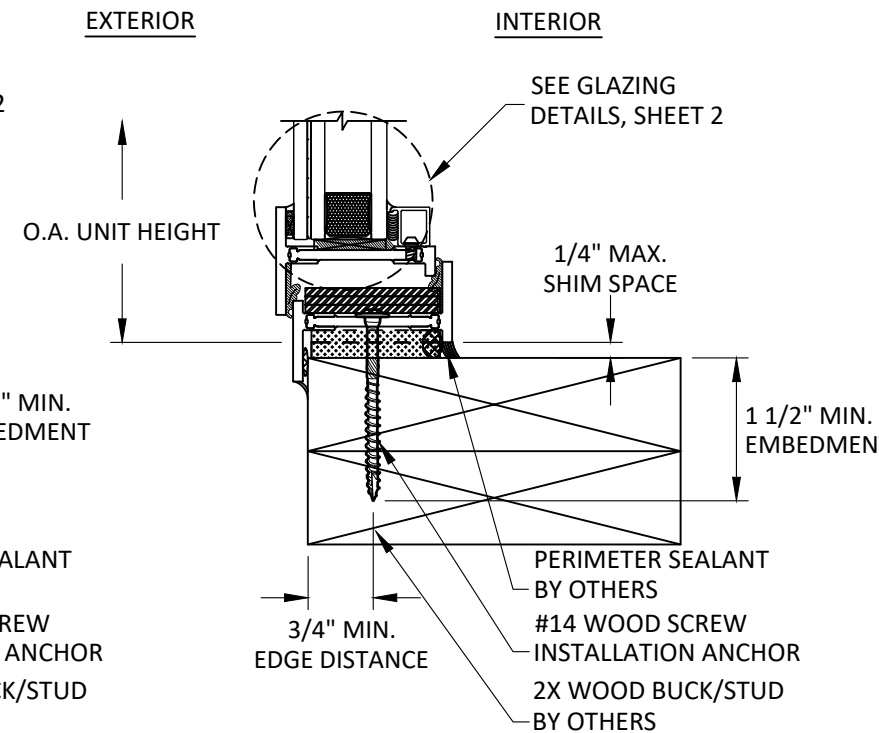
SILL - 2X WOOD BUCK
STRAP INSTALLATION
LONG LEG FRAME



E
5

VERTICAL SECTION

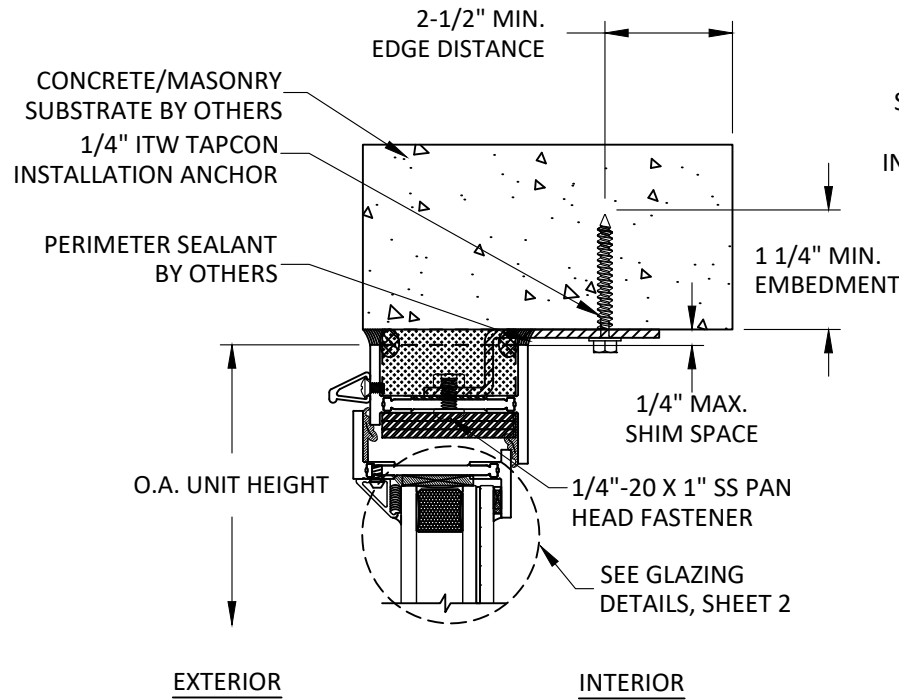
SILL - 2X WOOD BUCK
THROUGH FRAME INSTALLATION
LONG LEG FRAME



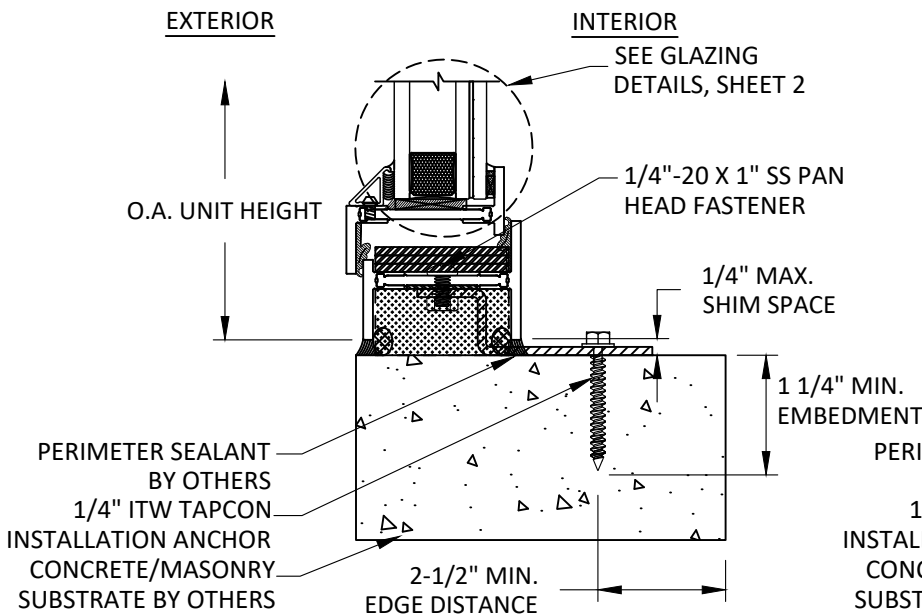
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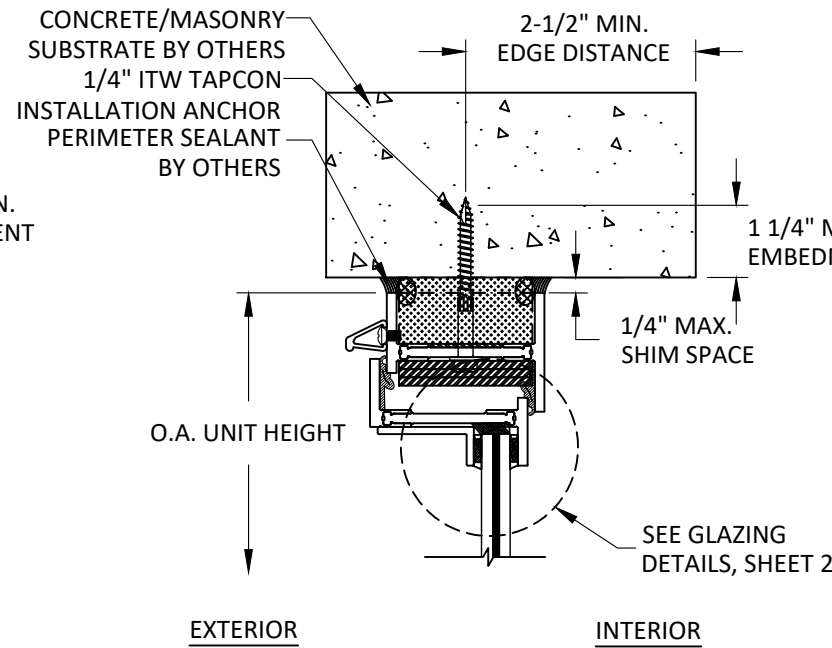
SILL - 2X WOOD BUCK
FLANGE INSTALLATION
UNEQUAL LEG FRAME



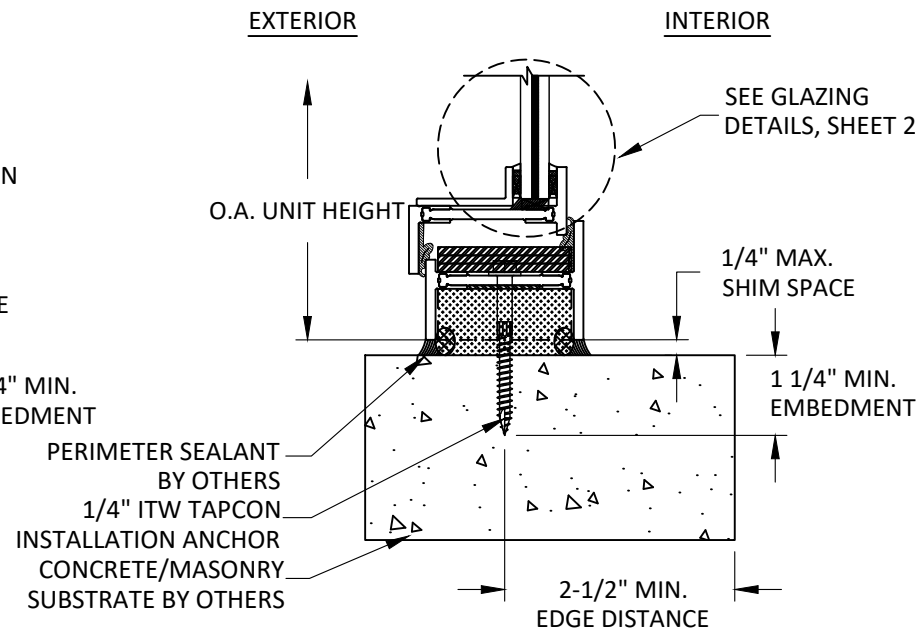
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6 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY
STRAP INSTALLATION
LONG LEG FRAME



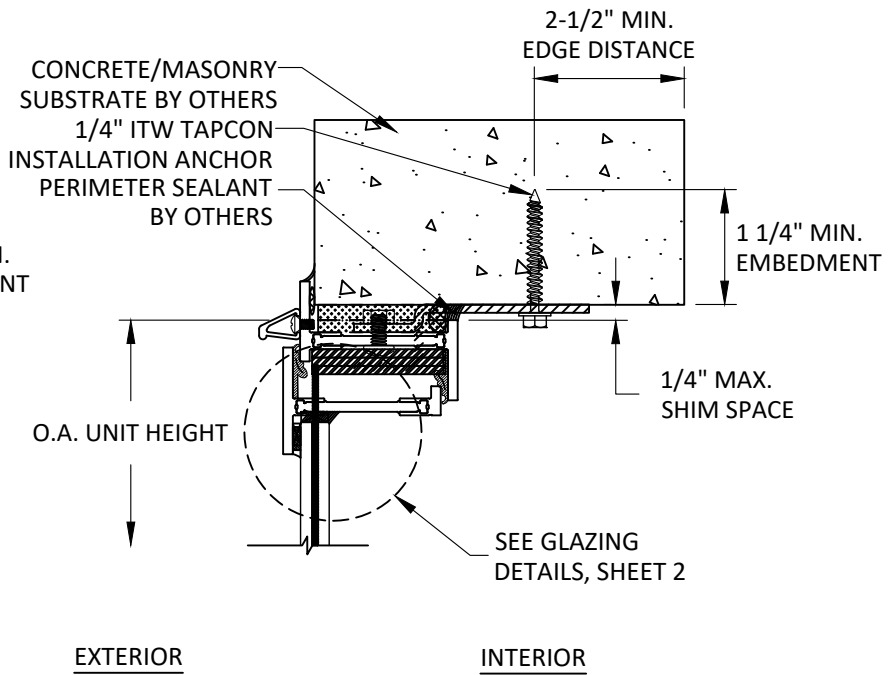
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SILL - CONCRETE/MASONRY
STRAP INSTALLATION
LONG LEG FRAME



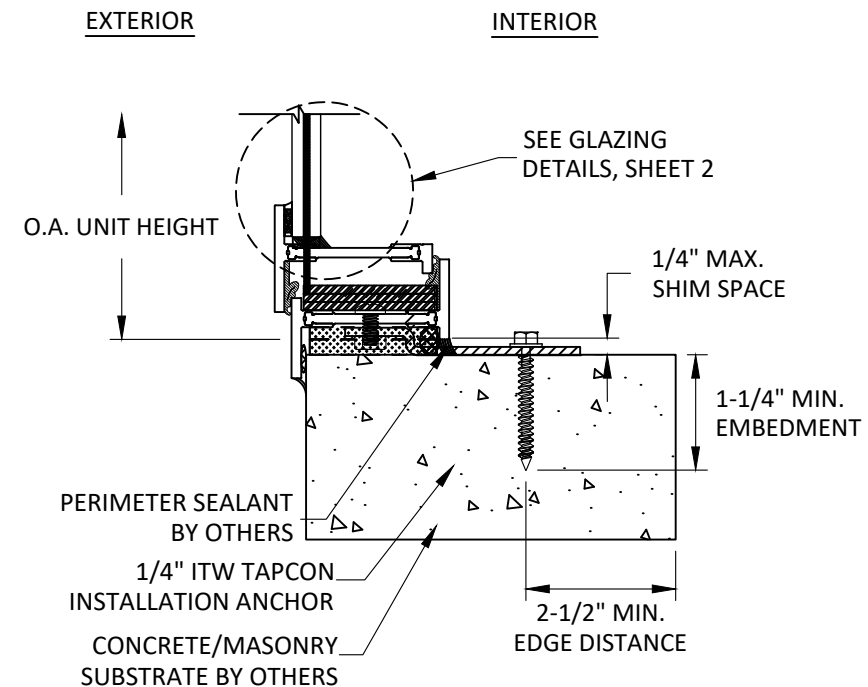
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6 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
LONG LEG FRAME



E
6 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
LONG LEG FRAME



C
6 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY
FLANGE/STRAP INSTALLATION
UNEQUAL LEG FRAME



F
6 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
FLANGE/STRAP INSTALLATION
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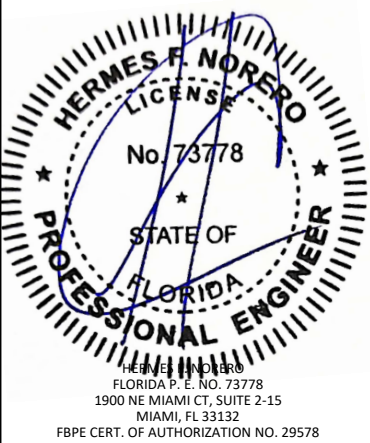
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(HVHZ)/(IMPACT)
VERTICAL SECTIONS-
CONCRETE/MASONRY

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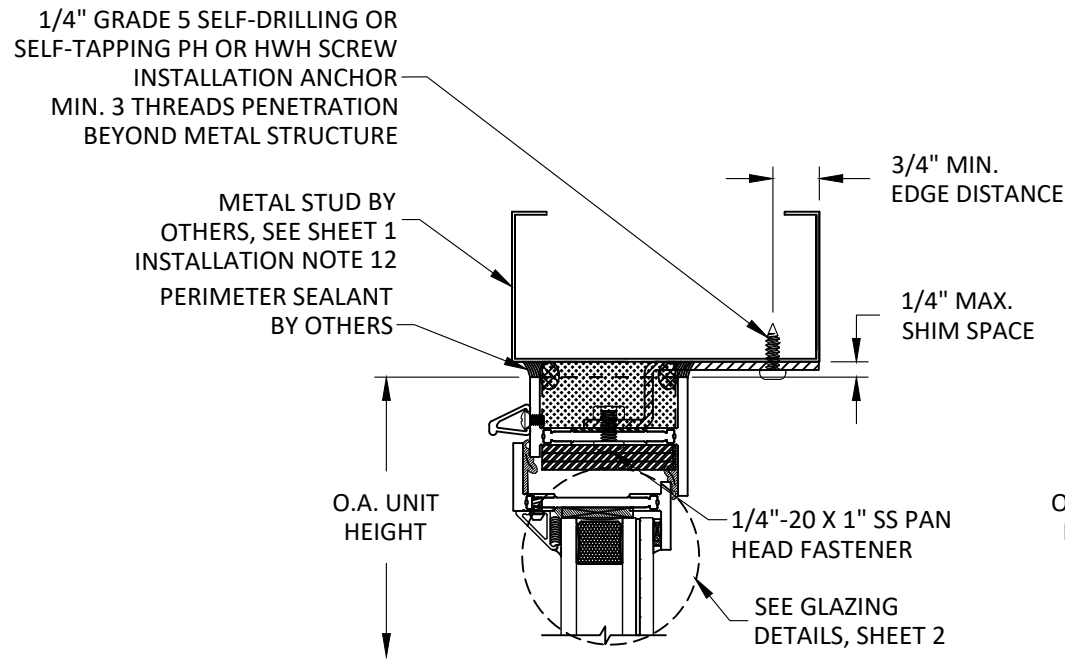
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SCALE: NTS

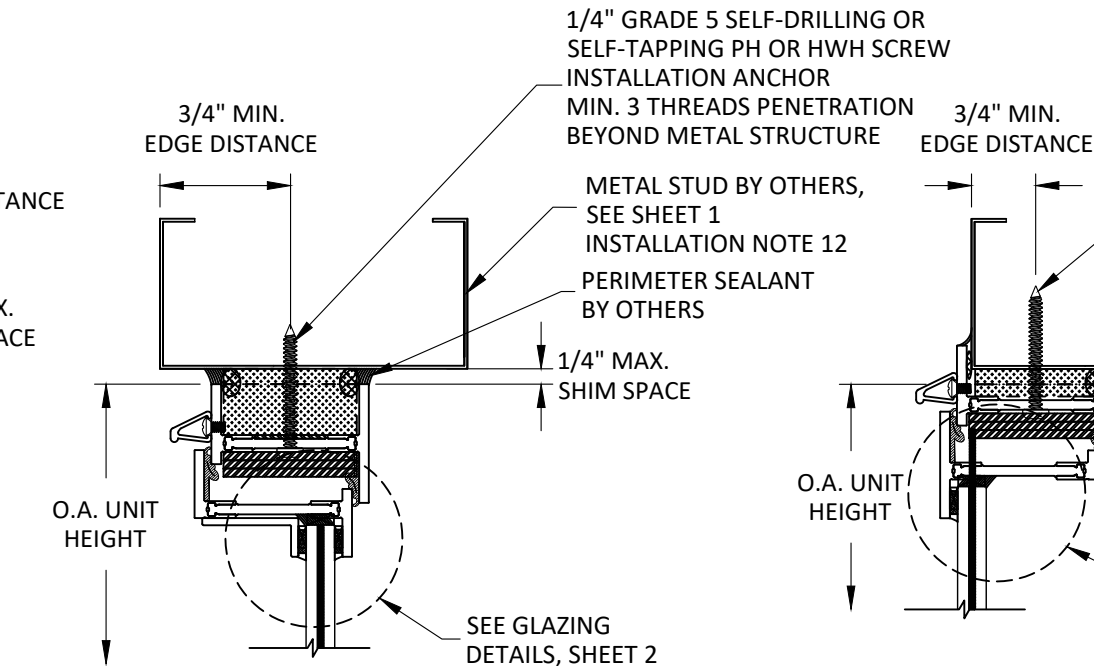
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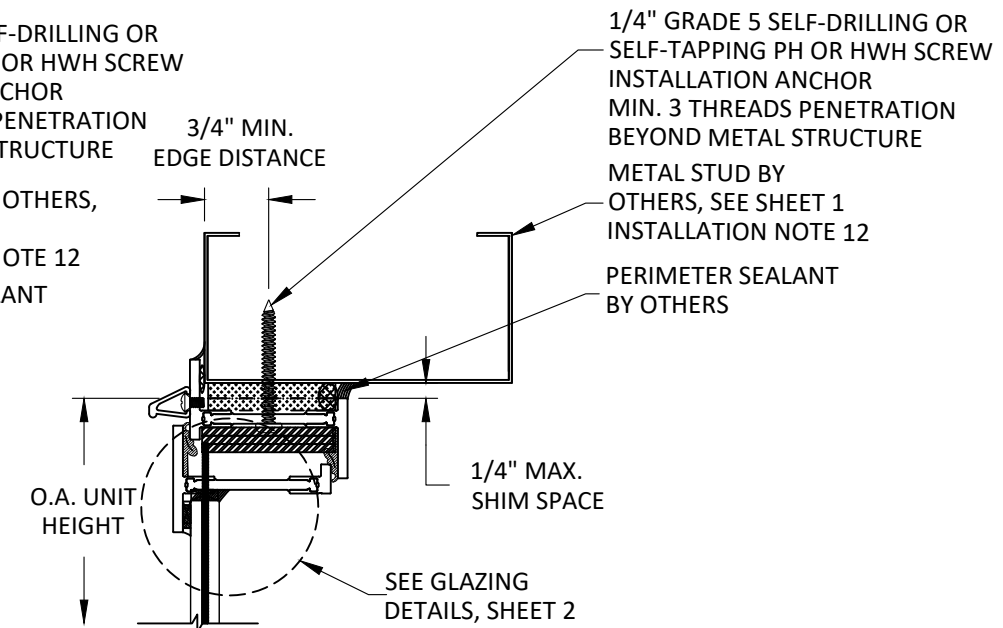
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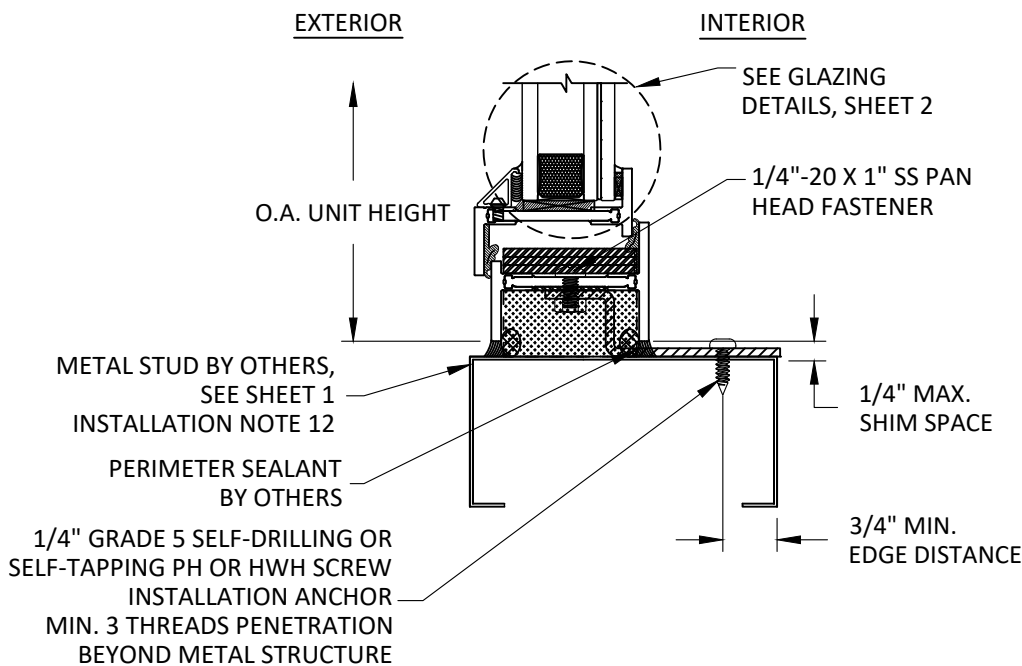
A
7 **VERTICAL SECTION**
HEAD - METAL STUD
STRAP INSTALLATION
LONG LEG FRAME



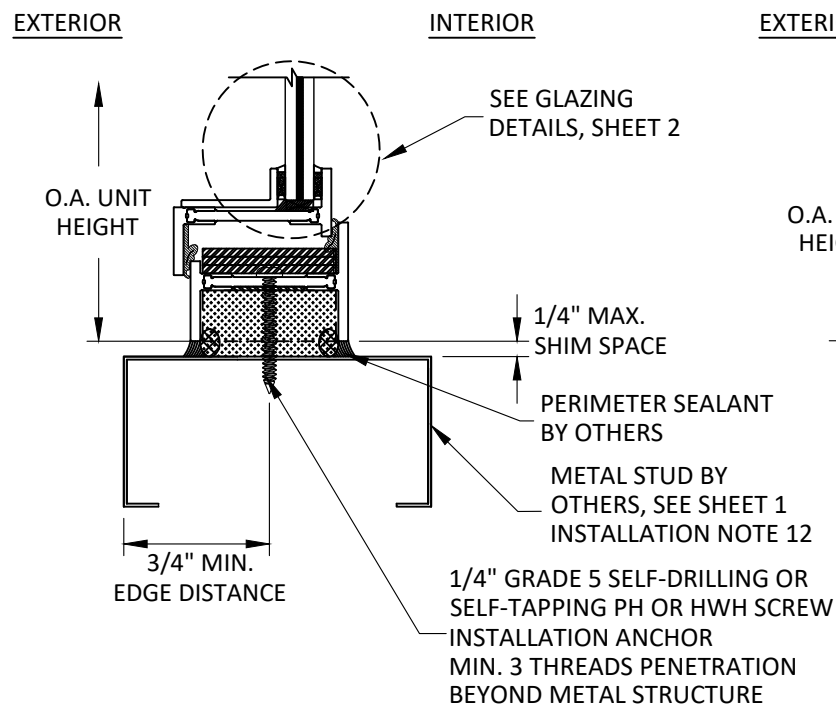
B
7 **VERTICAL SECTION**
HEAD - METAL STUD
THROUGH FRAME INSTALLATION
LONG LEG FRAME



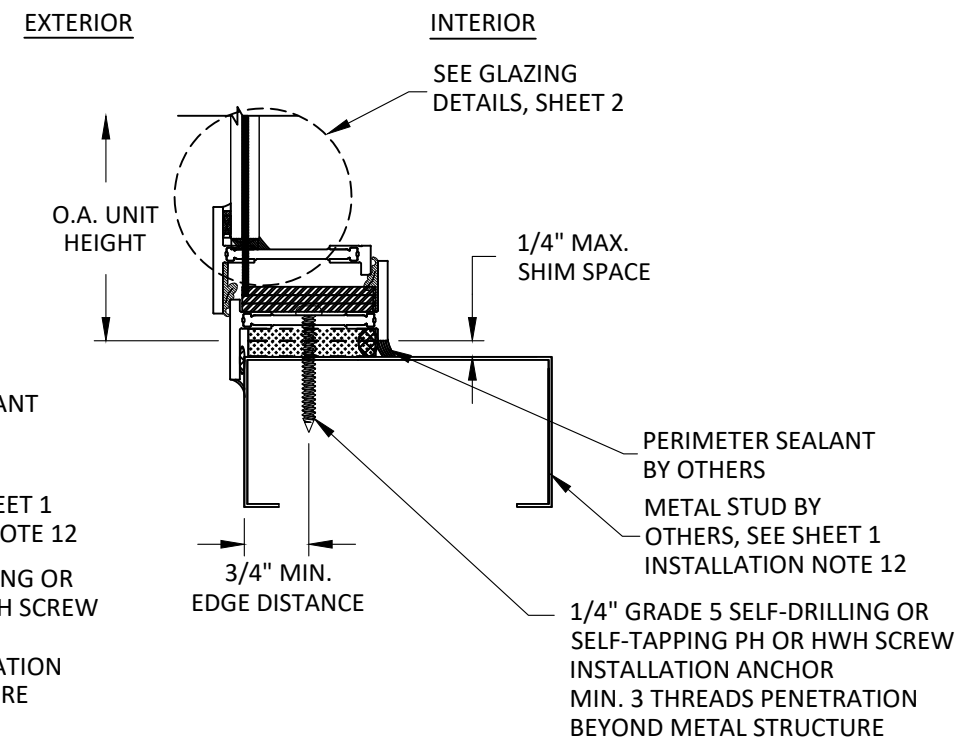
C
7 **VERTICAL SECTION**
HEAD - METAL STUD
FLANGE INSTALLATION
UNEQUAL LEG FRAME



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



E
7 **VERTICAL SECTION**
SILL - METAL STUD
THROUGH FRAME INSTALLATION
LONG LEG FRAME



F
7 **VERTICAL SECTION**
SILL - METAL STUD
FLANGE INSTALLATION
UNEQUAL LEG FRAME



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

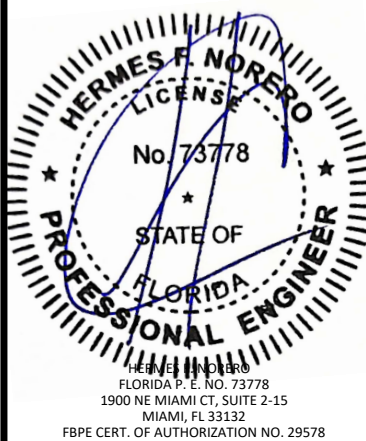
TITLE: RTS-430I STAINLESS STEEL
FRENCH CASEMENT WINDOW
(HVHZ)/(IMPACT)
VERTICAL SECTIONS -
METAL STUD

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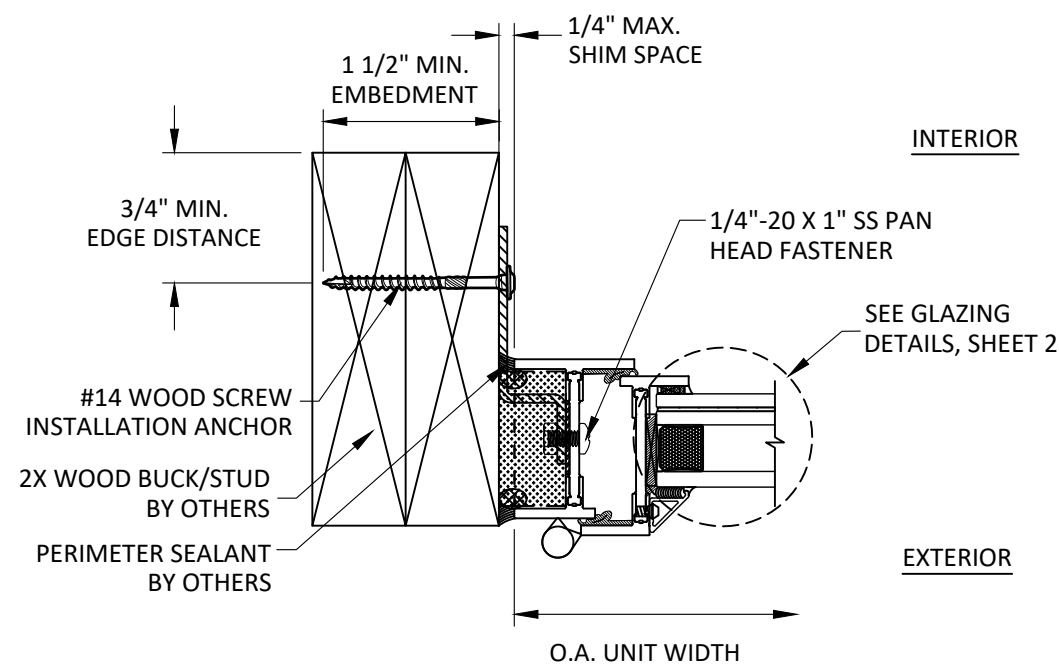
DATE: **03/22/22**

DWG. BY: **R.P.** CHK. BY: **HFN**

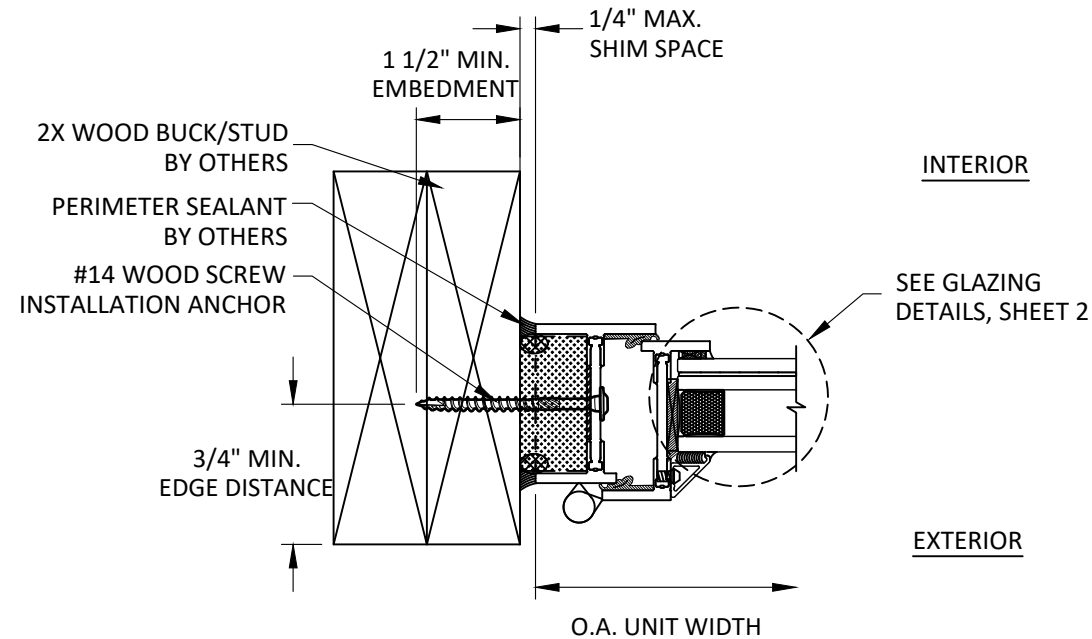
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DWG. #: **OPW015**

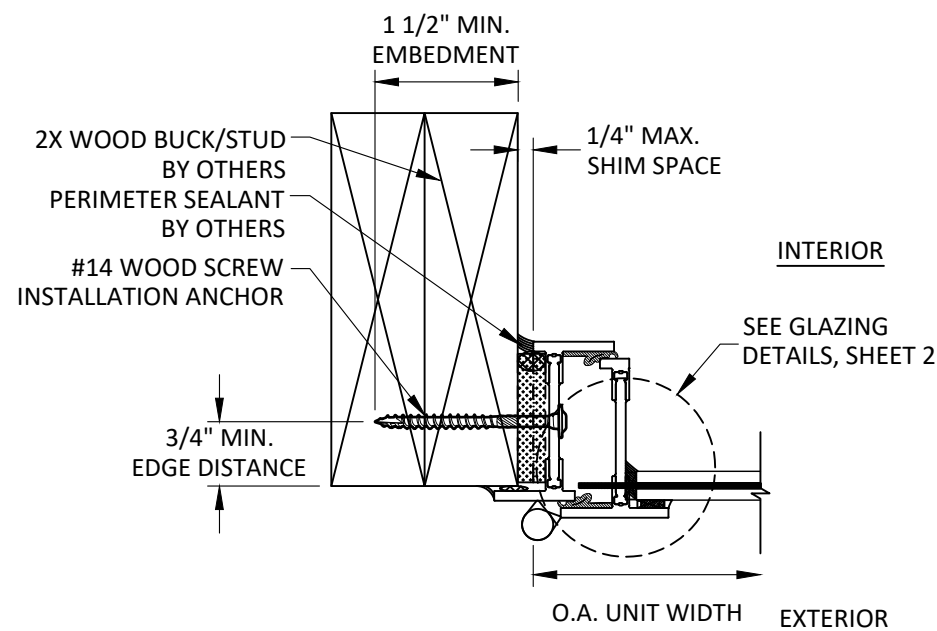
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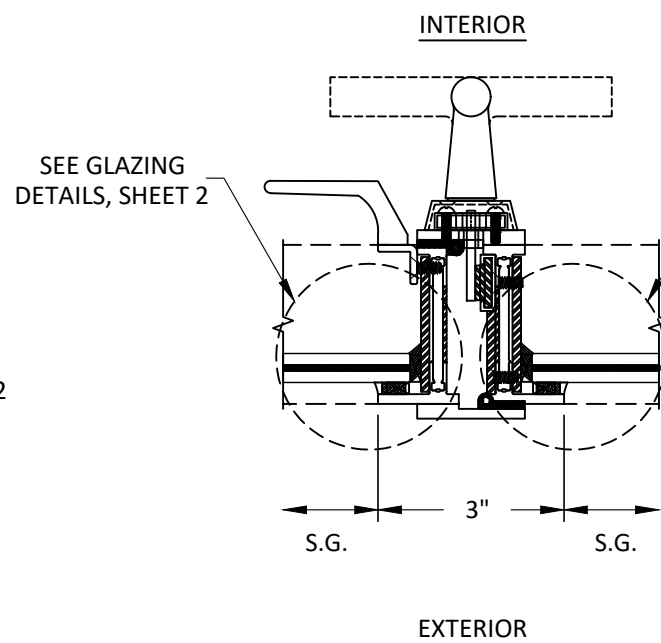
A
8 **HORIZONTAL SECTION**
JAMB- 2X WOOD BUCK
STRAP INSTALLATION
LONG LEG FRAME



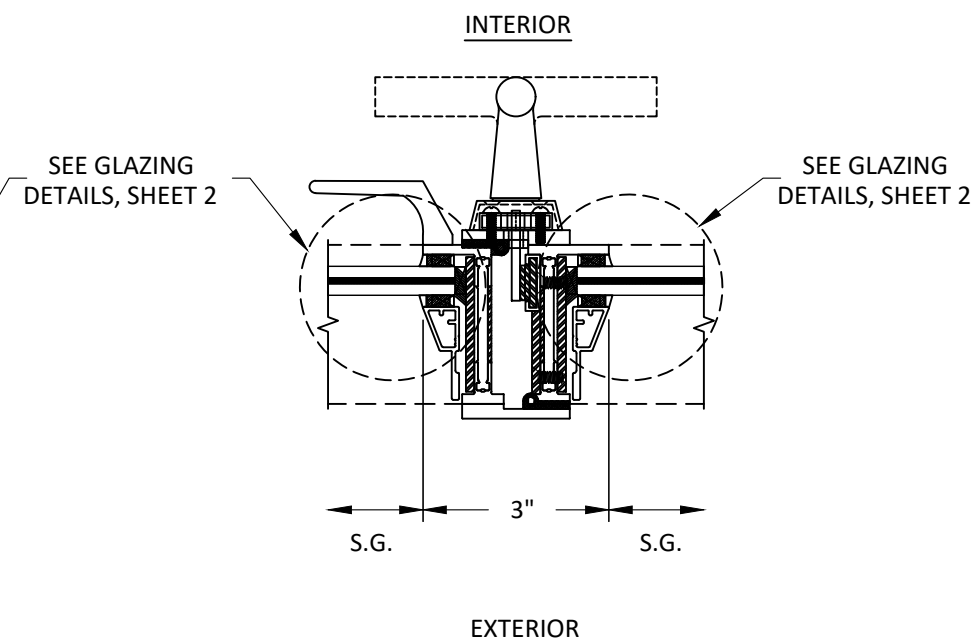
B
8 **HORIZONTAL SECTION**
JAMB- 2X WOOD BUCK
THROUGH FRAME INSTALLATION
LONG LEG FRAME



C
8 **HORIZONTAL SECTION**
JAMB- 2X WOOD BUCK
FLANGE INSTALLATION
UNEQUAL LEG FRAME



D
8 **HORIZONTAL SECTION**
CENTER STILES
INTERIOR GLAZED



E
8 **HORIZONTAL SECTION**
CENTER STILES
EXTERIOR GLAZED



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
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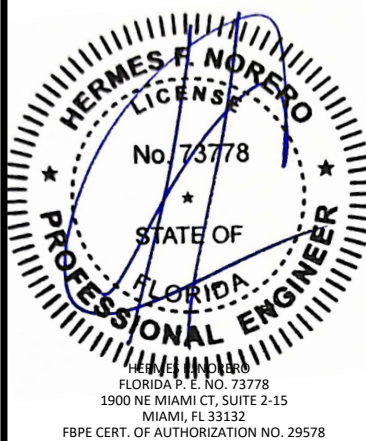
TITLE: RTS-430I STAINLESS STEEL
FRENCH CASEMENT WINDOW
(HVHZ)/(IMPACT)
HORIZONTAL SECTIONS - 2X WOOD
BUCK & CENTER STILES

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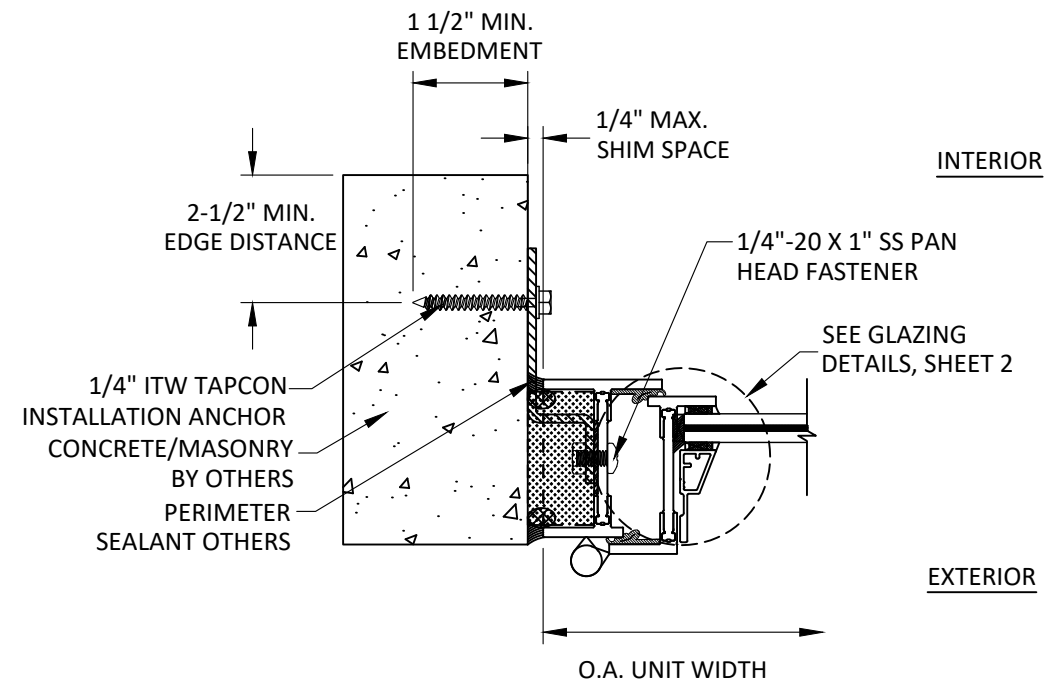
REMARKS	BY	DATE
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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
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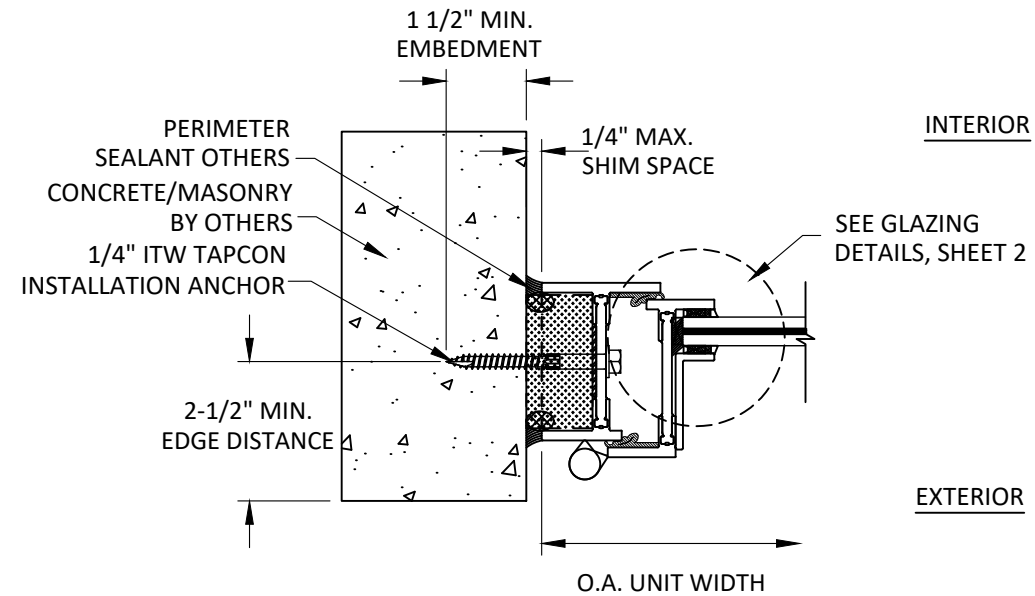


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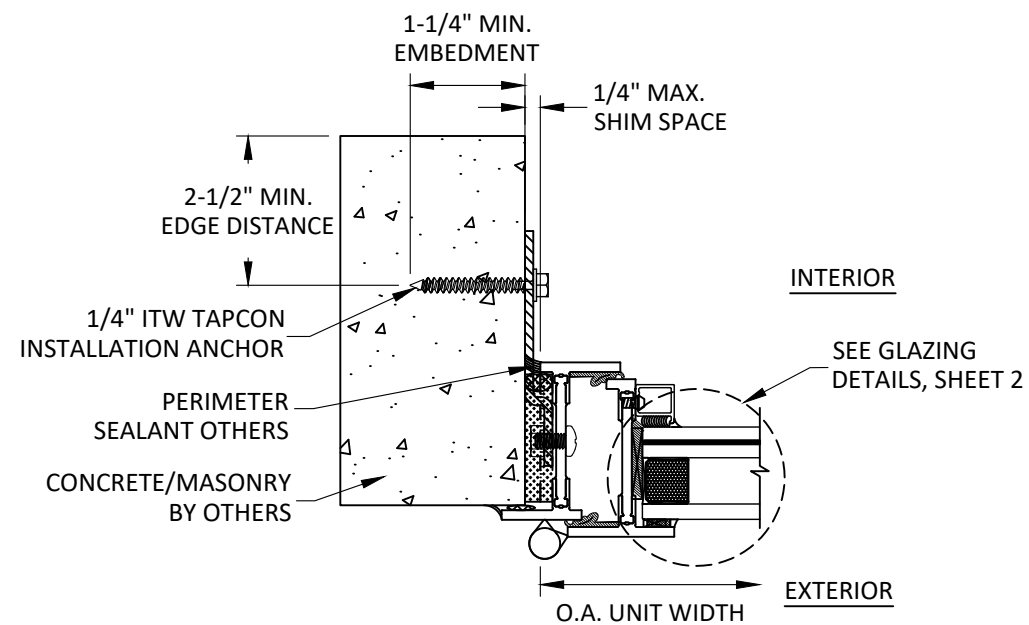
DATE: 03/22/22	
DWG. BY: R.P.	CHK. BY: HFN
SCALE: NTS	
DWG. #: OPW015	
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A
9 **HORIZONTAL SECTION**
JAMB- CONCRETE/MASONRY
STRAP INSTALLATION
LONG LEG FRAME



B
9 **HORIZONTAL SECTION**
JAMB- CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
LONG LEG FRAME



C
9 **HORIZONTAL SECTION**
JAMB- CONCRETE/MASONRY
FLANGE/STRAP INSTALLATION
UNEQUAL LEG FRAME



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428
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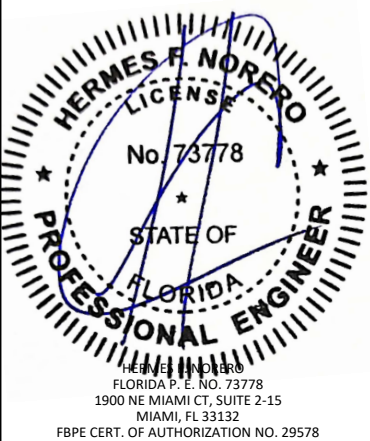
TITLE: RTS-430i STAINLESS STEEL
FRENCH CASEMENT WINDOW
(HVHZ)/(IMPACT)
HORIZONTAL SECTIONS -
CONCRETE/MASONRY

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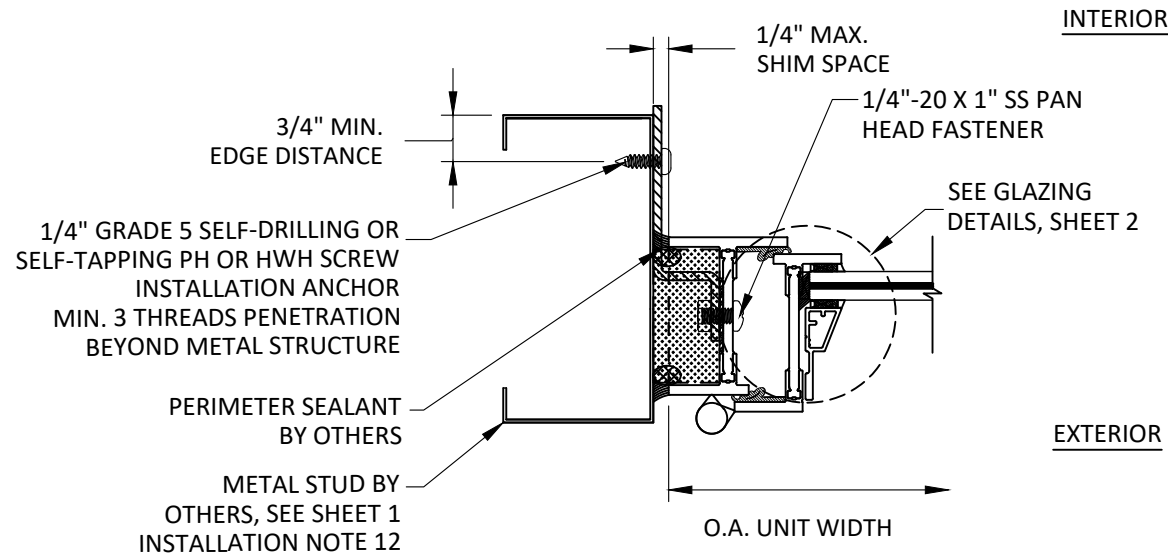
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SCALE: NTS

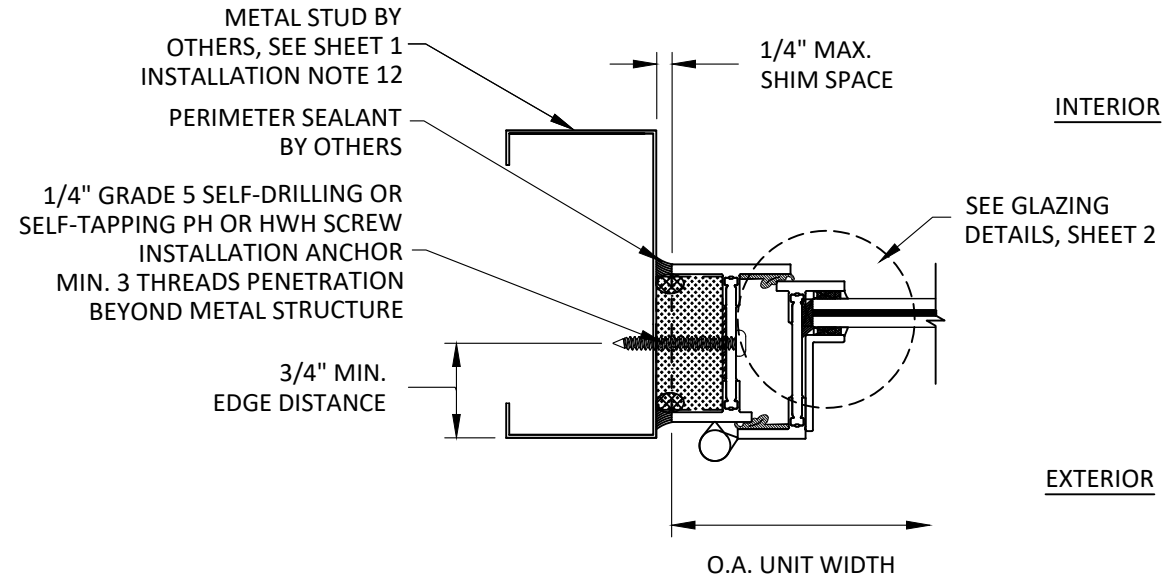
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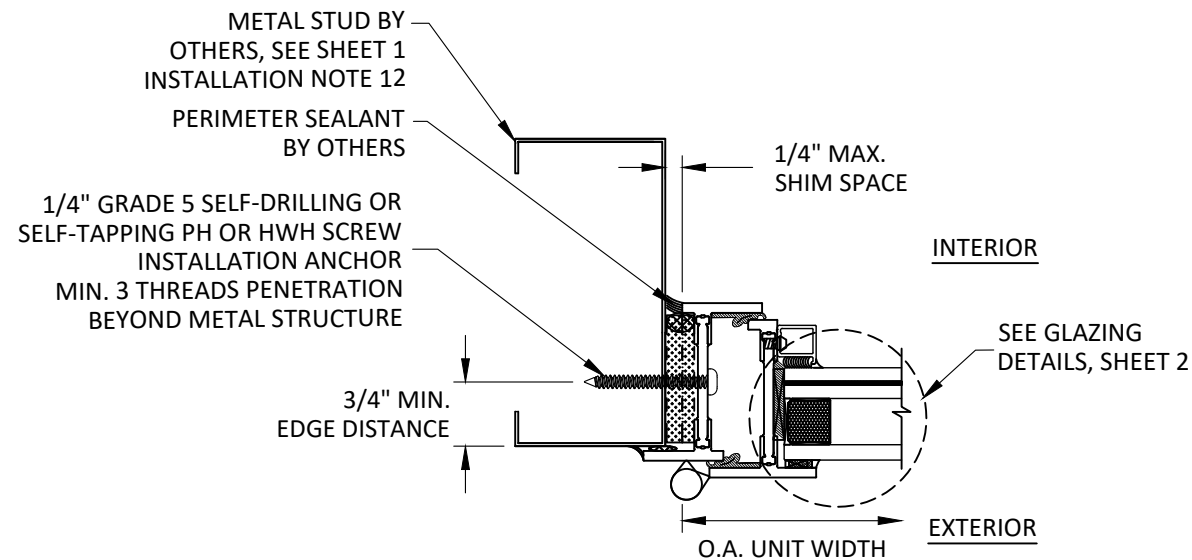
9



A **HORIZONTAL SECTION**
10 **JAMB- METAL STUD STRAP INSTALLATION LONG LEG FRAME**



B **HORIZONTAL SECTION**
10 **JAMB- METAL STUD THROUGH FRAME INSTALLATION LONG LEG FRAME**



C **HORIZONTAL SECTION**
10 **JAMB- METAL STUD FLANGE INSTALLATION UNEQUAL 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
FRENCH CASEMENT WINDOW
(HVHZ)/(IMPACT)
HORIZONTAL SECTIONS -
METAL STUD

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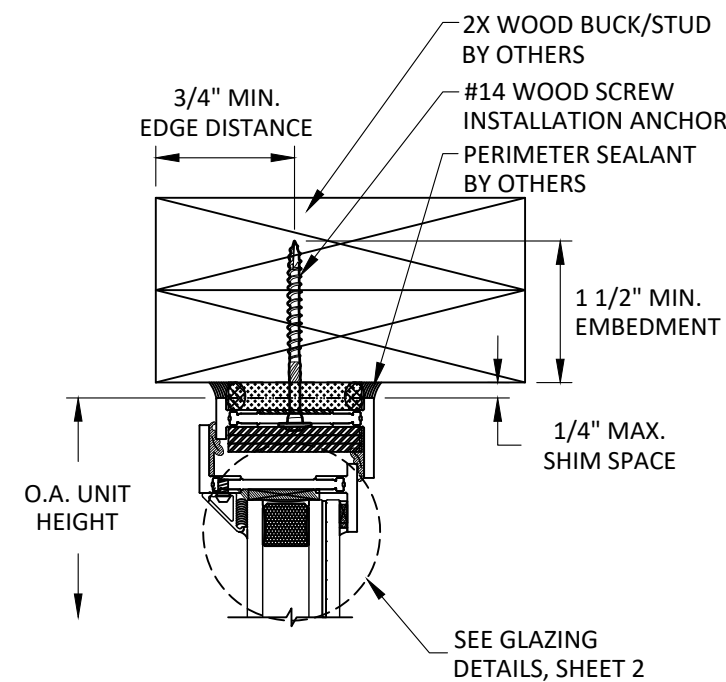
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DWG. BY: **R.P.** CHK. BY: **HFN**

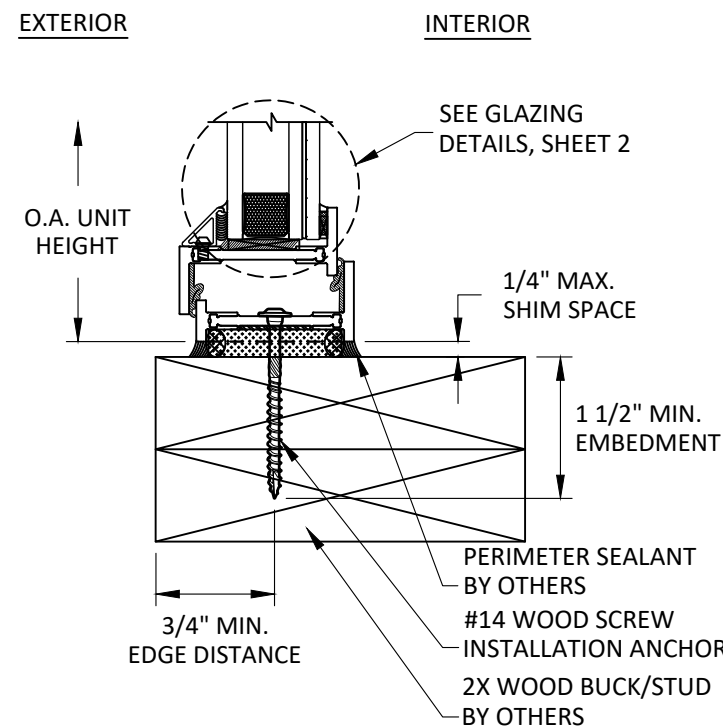
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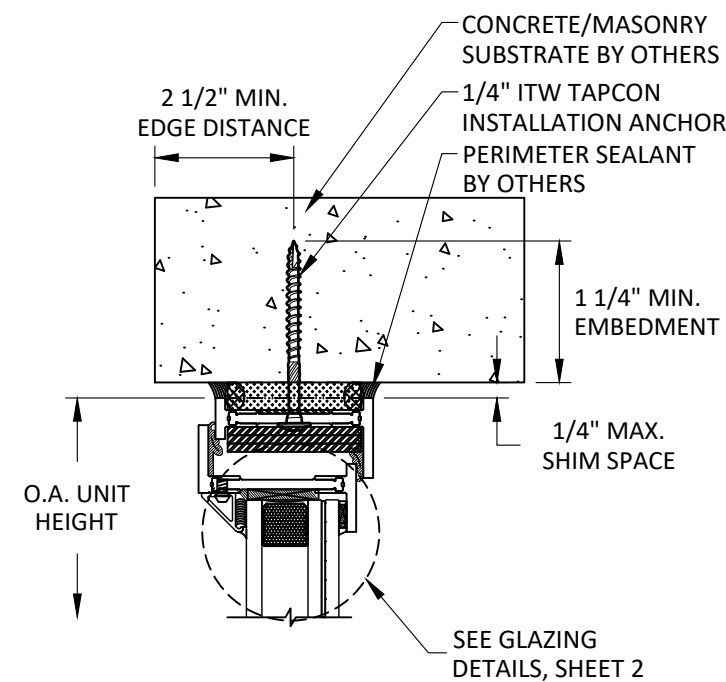
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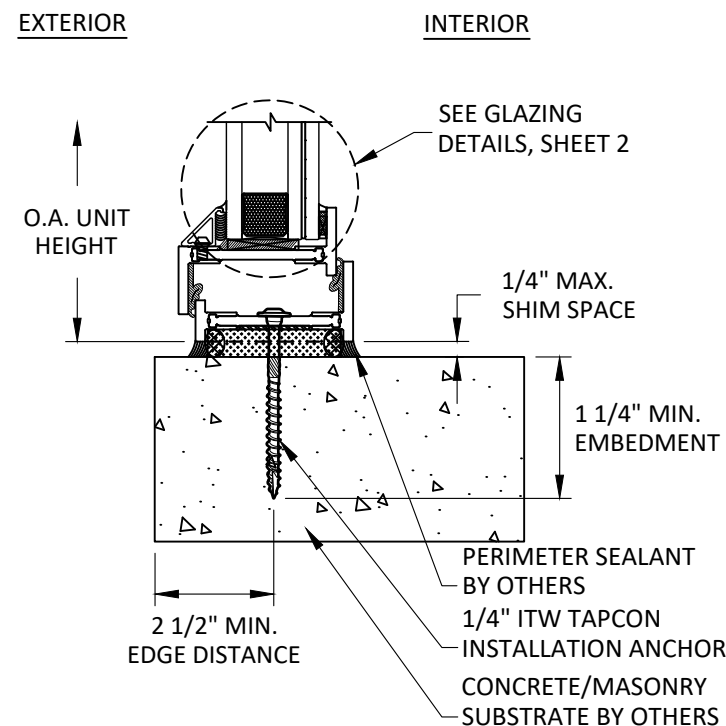
A
11 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



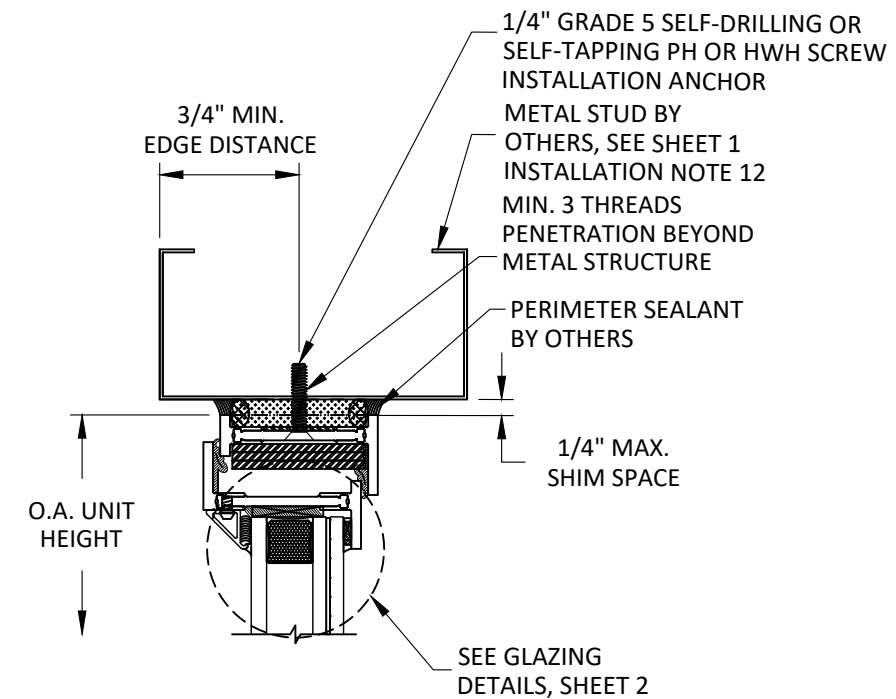
D
11 **VERTICAL SECTION**
SILL - 2X WOOD BUCK
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



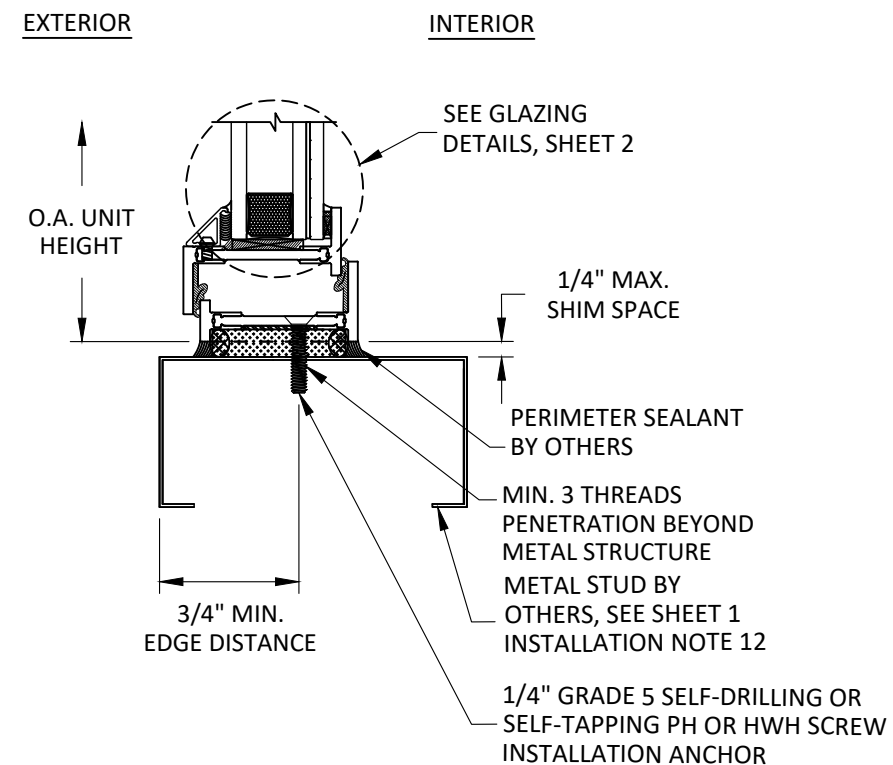
B
11 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



E
11 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



C
11 **VERTICAL SECTION**
HEAD - METAL STUD
THROUGH FRAME INSTALLATION
SHORT LEG FRAME



F
11 **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
FRENCH CASEMENT WINDOW
(HVHZ)/(IMPACT)

VERTICAL SECTIONS

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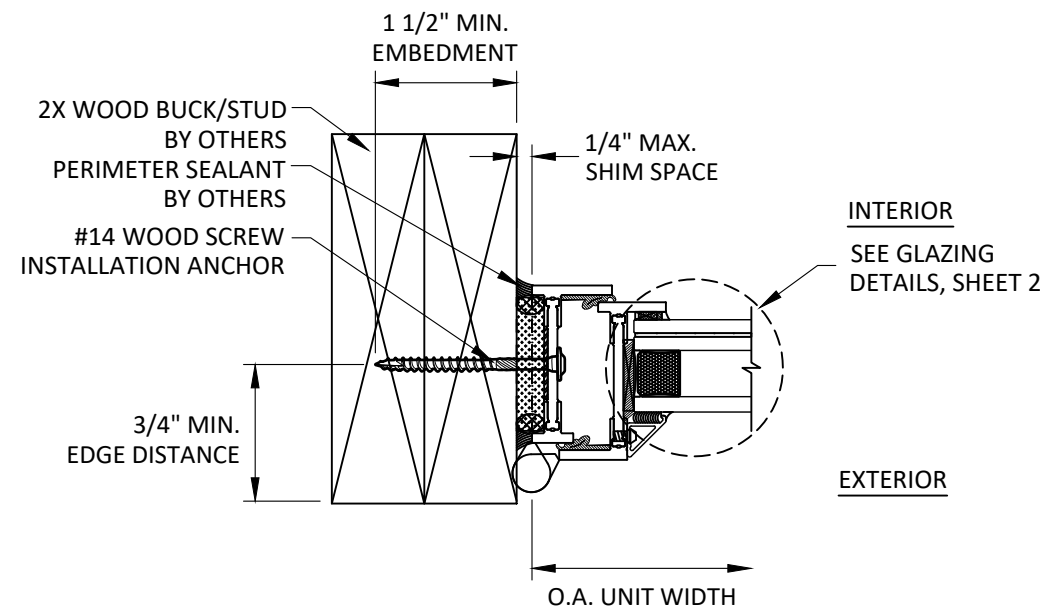
CHK. BY: HFN

SCALE: NTS

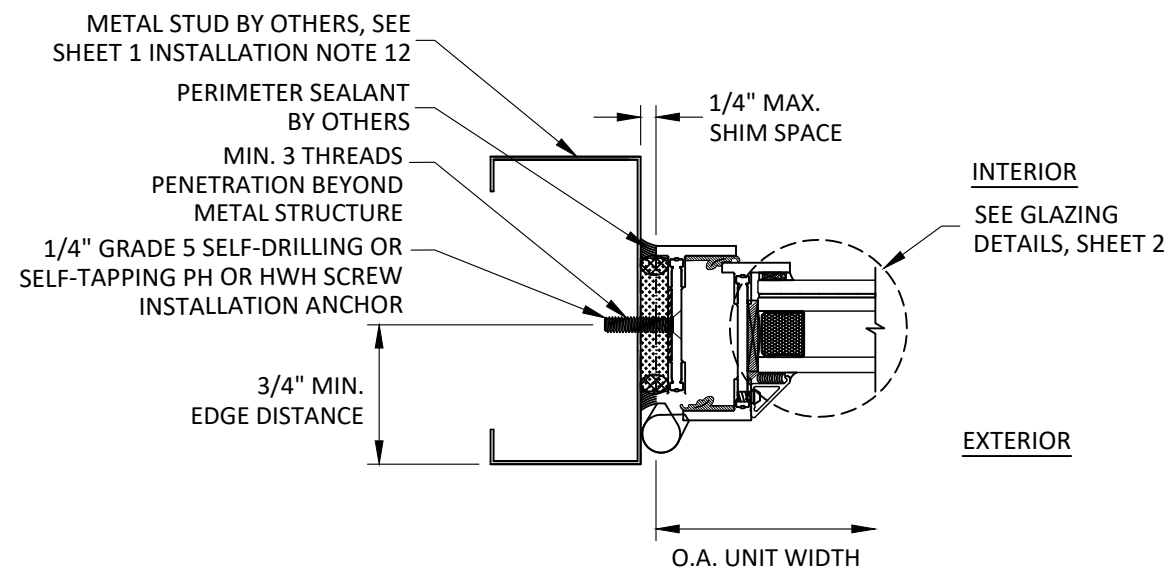
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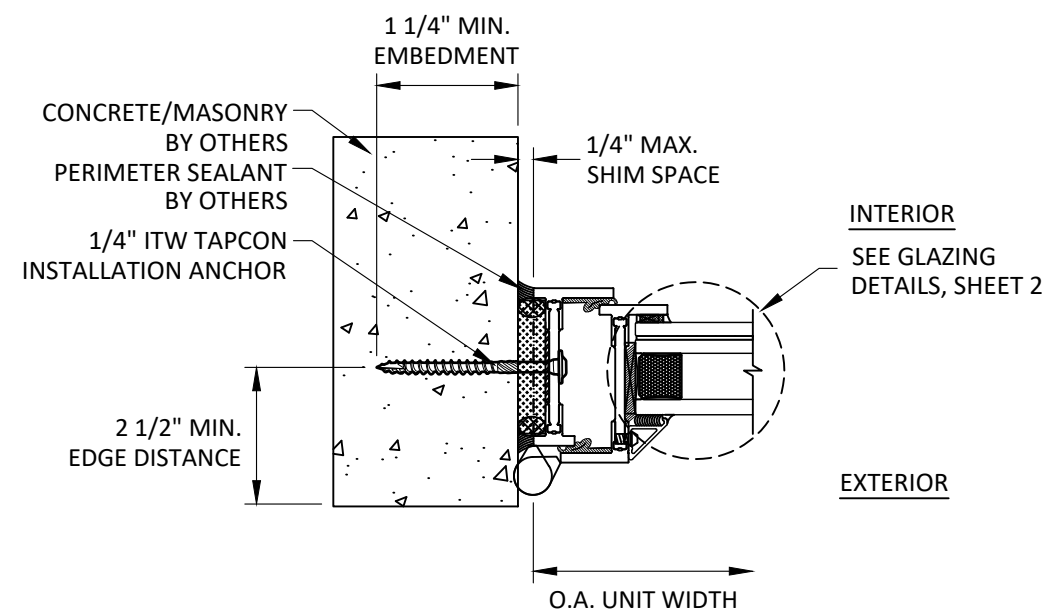
11



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



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



B HORIZONTAL SECTION
12 JAMB- CONCRETE/MASONRY
 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
 FRENCH CASEMENT WINDOW
 (HVHZ)/(IMPACT)

HORIZONTAL SECTIONS

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DWG. BY:
R.P.

CHK. BY:
HFN

SCALE: NTS

DWG. #: OPW015

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