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INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR NAIL FIN INSTALLATION. TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR STRAP INSTALLATION.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. 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.
5. **FIN INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/8" IS ACHIEVED.
6. **STRAP INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE TWO (2) #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" AND A MINIMUM SPACING OF 1" BETWEEN ANCHORS IS ACHIEVED.
7. **THROUGH FRAME INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" IS ACHIEVED.
8. **FIN INSTALLATION:** FOR INSTALLATION INTO METAL STUD USE #8 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/8" IS ACHIEVED.
9. **STRAP INSTALLATION:** FOR INSTALLATION INTO METAL STUD USE TWO (2) #8 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" AND A MINIMUM SPACING OF 1" BETWEEN ANCHORS IS ACHIEVED.
10. **THROUGH FRAME INSTALLATION:** FOR INSTALLATION INTO METAL STUD USE #10 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" IS ACHIEVED.
11. **THROUGH FRAME INSTALLATION:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
12. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
13. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
14. 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.
15. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 35.9 MIL (0.0478" or 18 GAUGE).

C. ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/8".

SIERRA PACIFIC WINDOWS

FEELSAFE H3 2.0 AWNING WINDOWS

(WZ3)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

AAMA/WDMA/CSA 101/I.S.2/A440-17

ASTM E1886-19

ASTM E1996-20
2. IMPORTANT: H3 PRODUCT IS MANUFACTURED WITH A FULLY WELDED VINYL MAIN FRAME AND INTEGRAL NAIL FIN FOR AIR-TIGHT AND WATER-TIGHT INSTALLATION. THE INTEGRAL NAIL FIN DEFINES THE WATER PLANE OF THE PRODUCT. PROPER INTEGRATION OF THE BUILDING'S WEATHER BARRIER SYSTEM MUST BE MADE FROM THIS LOCATION TO THE INTERIOR OF THE OPENING.

- PERIMETER SEALING OF THE EXTERIOR BUILDING FAÇADE MUST INCLUDE A DISCONTINUOUS BEAD OF SEALANT AT THE SILL FOR PROPER WATER MANAGEMENT.

- WHEN INSTALLING IN ANY RECESSED OR STUCCO APPLICATION A WATER MANAGEMENT SYSTEM TO THE EXTERIOR MUST BE INCORPORATED.

- PRODUCT INSTALLED WITHOUT NAIL FIN WILL REQUIRE THE USE OF A FLEXIBLE SILL PAN.

CONSULT WITH A WATER MANAGEMENT SPECIALIST WHEN INSTALLING IN ANY OF THESE OR SIMILAR APPLICATIONS.
3. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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.
4. 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.
5. 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.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN WIND ZONE 3 OR LESS.
7. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN WIND ZONE.
8. WINDOW FRAME MATERIAL: VINYL, WOOD, AND ALUMINUM ALLOY
9. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 8 FOR GLAZING DETAILS.

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DESIGN PRESSURE TABLE					
PRODUCT	MAX OVERALL SIZE		DESIGN PRESSURE	INSTALLATION METHOD	MISSILE IMPACT RATING
	WIDTH	HEIGHT			
AW-AW-FX TRANSOM	94.50"	79.625"	+50/-60 PSF	NAIL FIN AND STRAP OR THROUGH FRAME	LARGE AND SMALL MISSILE IMPACT RATED
AW-FX TRANSOM	47.50"	107.25"			
AW-AW	94.50"	35.50"			
AW	47.50"	35.50"			

*SEE SHEETS 9-10 FOR QUALIFIED ALTERNATE SIZES



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PH: (530) 527-9620

TITLE: FEELSAFE H3 2.0
AWNING WINDOWS
(WZ3)(IMPACT)

INSTALLATION & GENERAL NOTES

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BUILDING DROPS

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.09.08 14:39:41 -0400

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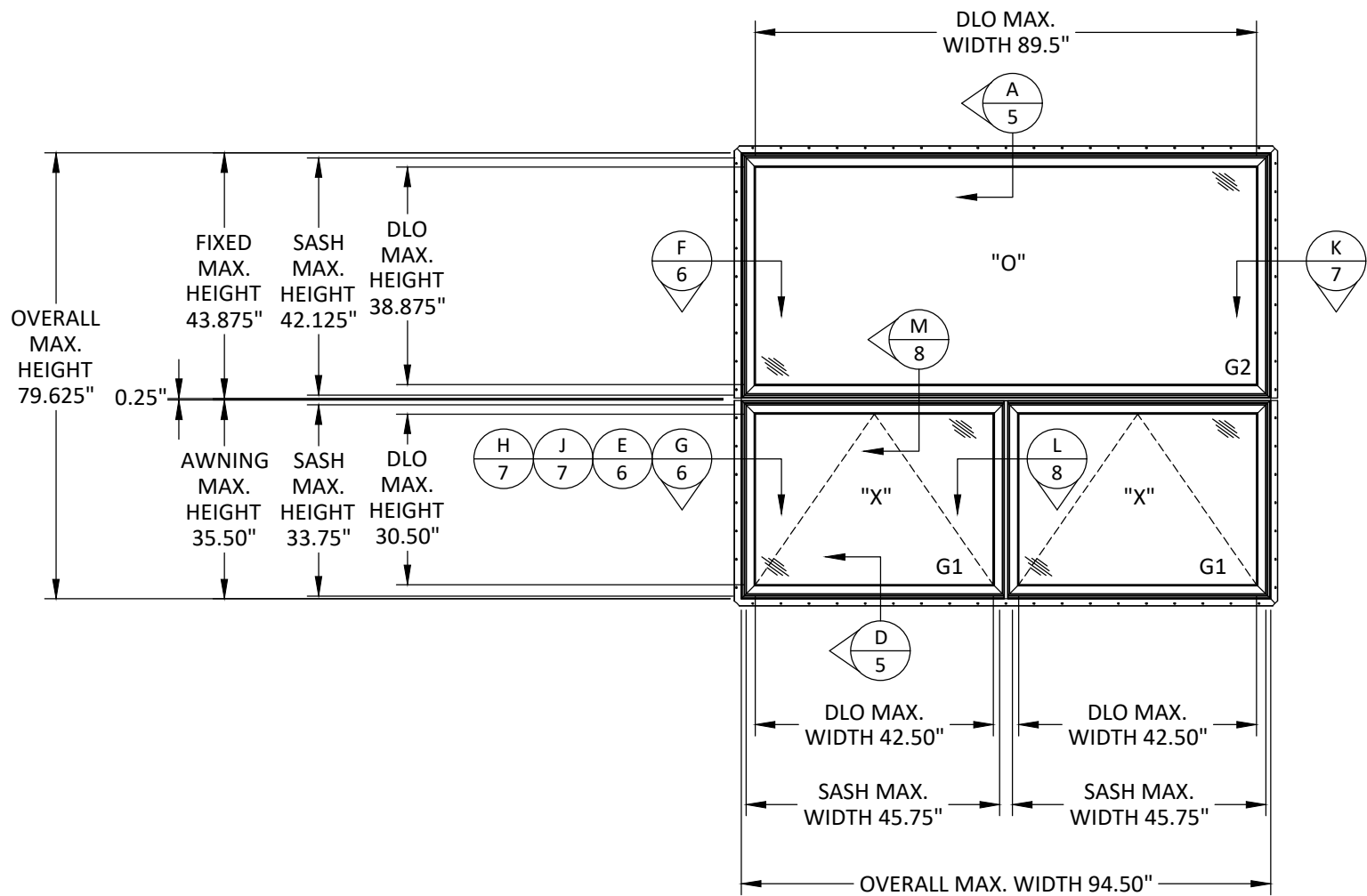
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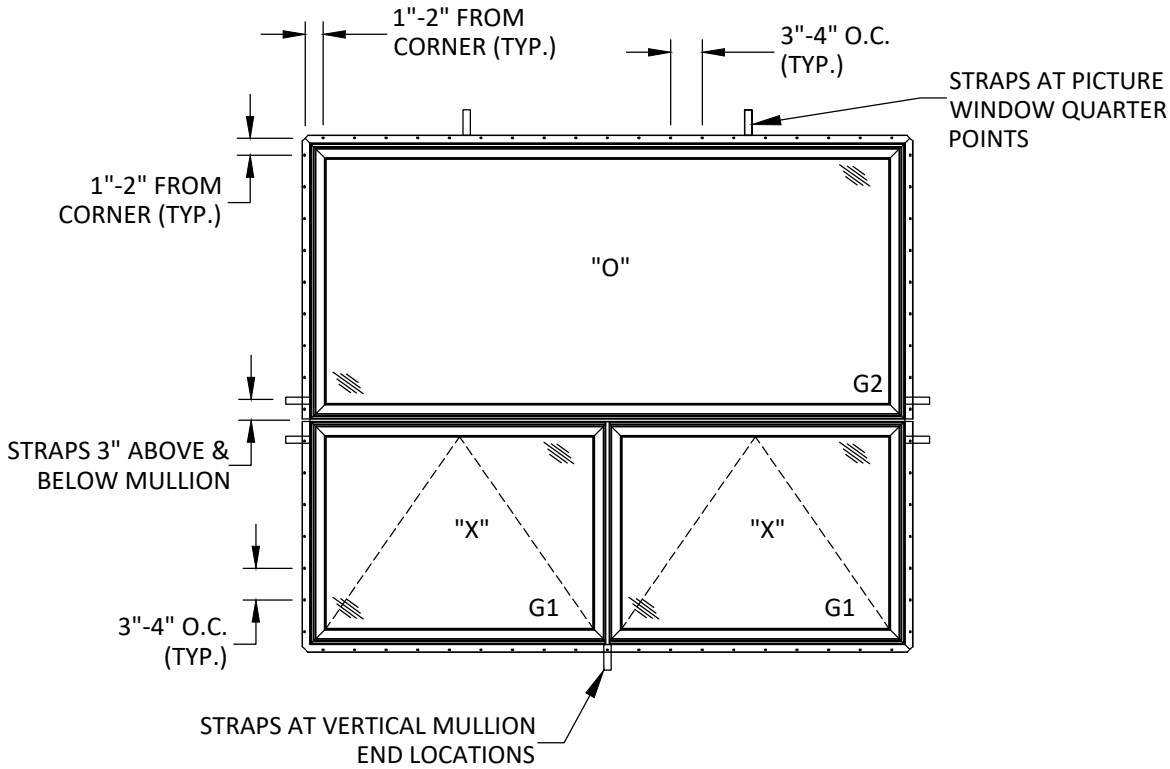
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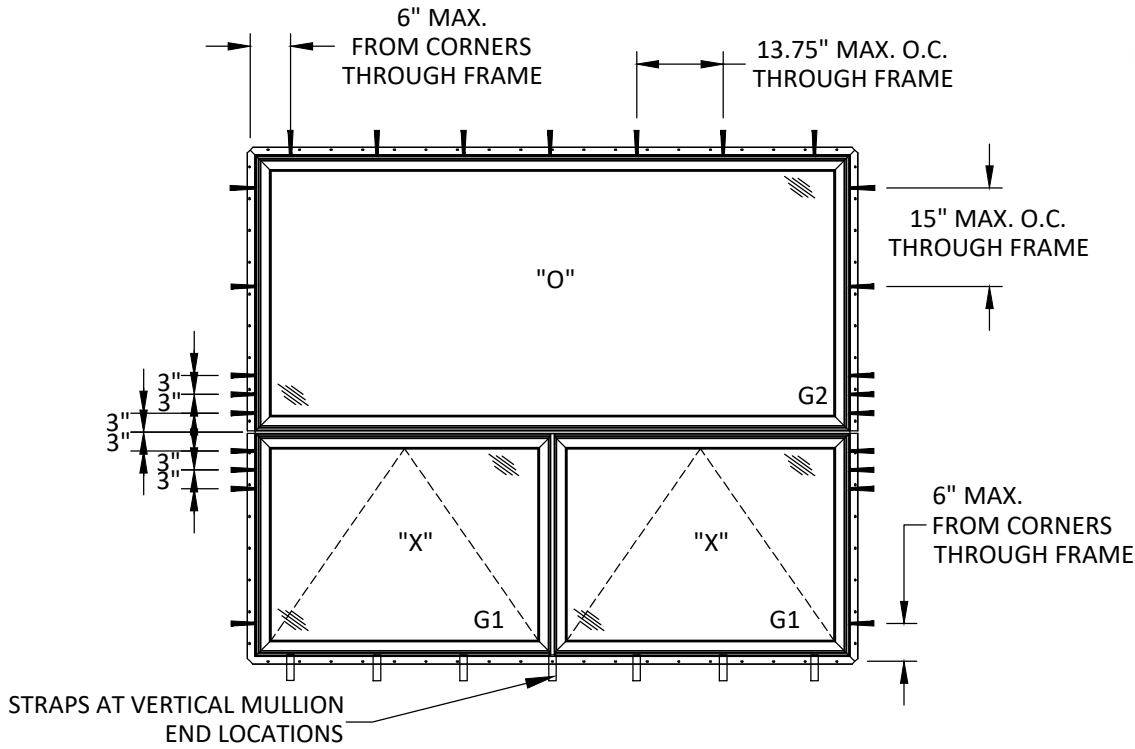
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ELEVATION VIEW
AW-AW-FX TRANSOM



ANCHOR LAYOUT
NAIL FIN AND STRAP



ANCHOR LAYOUT
THROUGH FRAME + STRAP
INSTALLATION



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ELEVATIONS & ANCHOR LAYOUTS

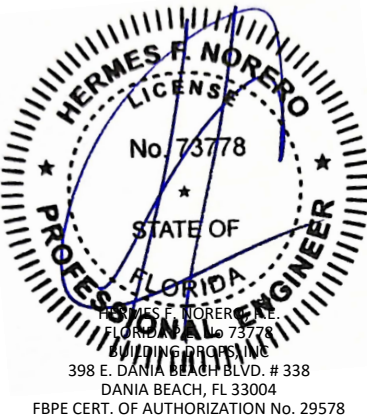
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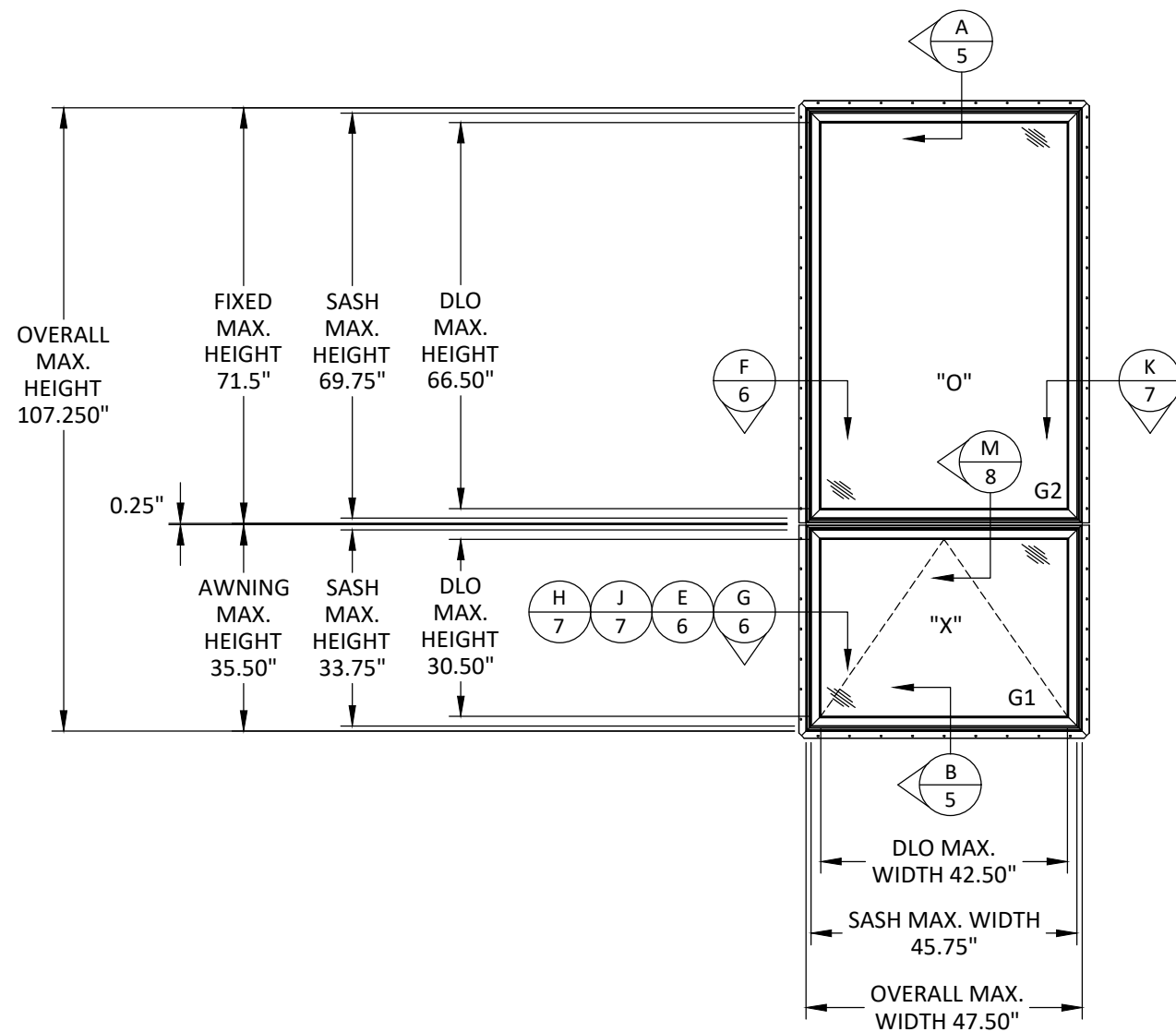
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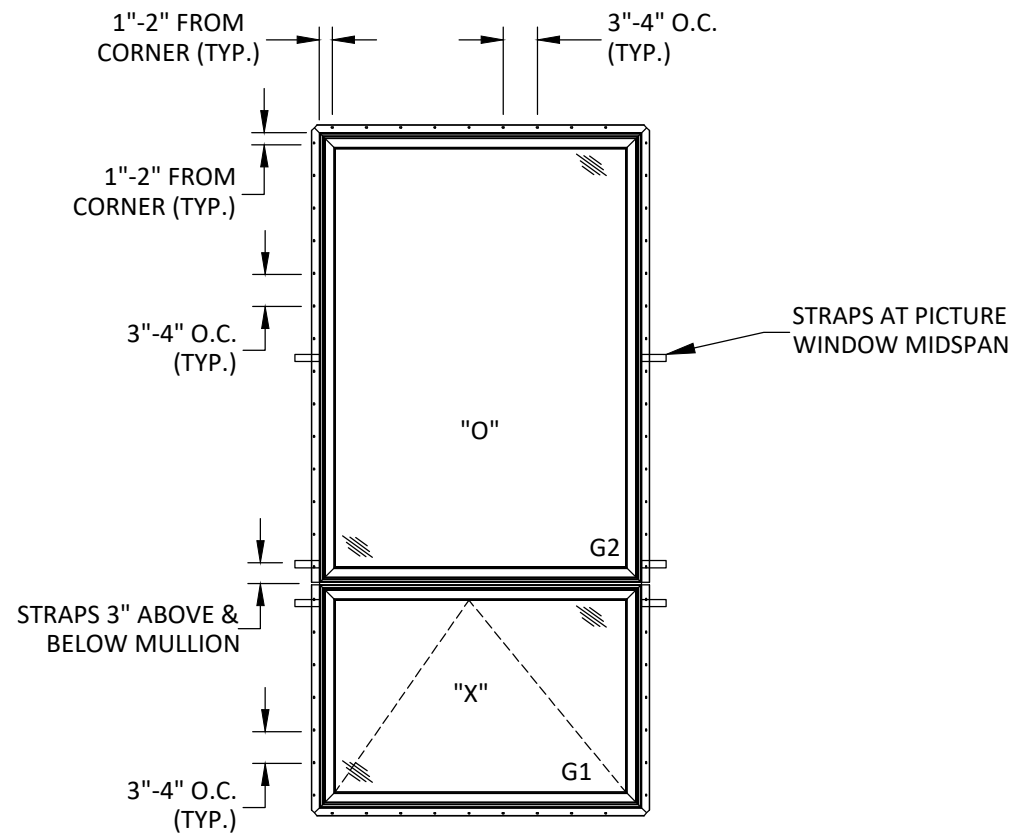


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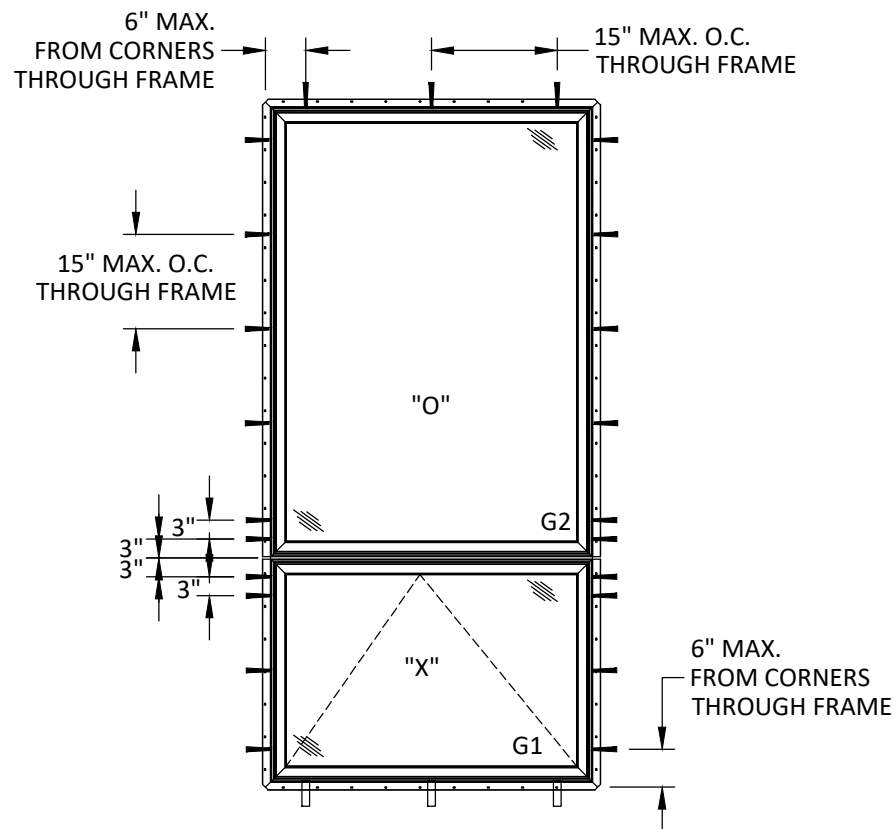
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ELEVATION VIEW
AW-FX TRANSOM



ANCHOR LAYOUT
NAIL FIN AND STRAP



ANCHOR LAYOUT
THROUGH FRAME + STRAP
INSTALLATION



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ELEVATIONS & ANCHOR LAYOUTS

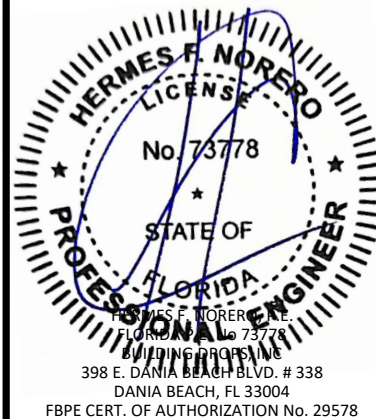
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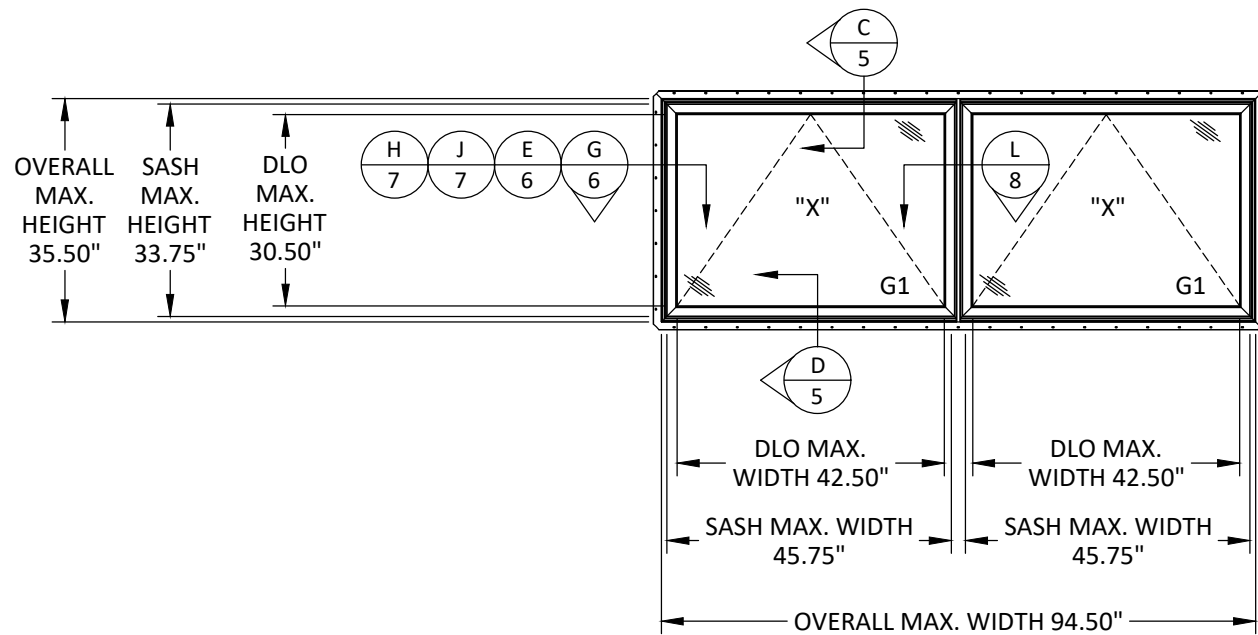
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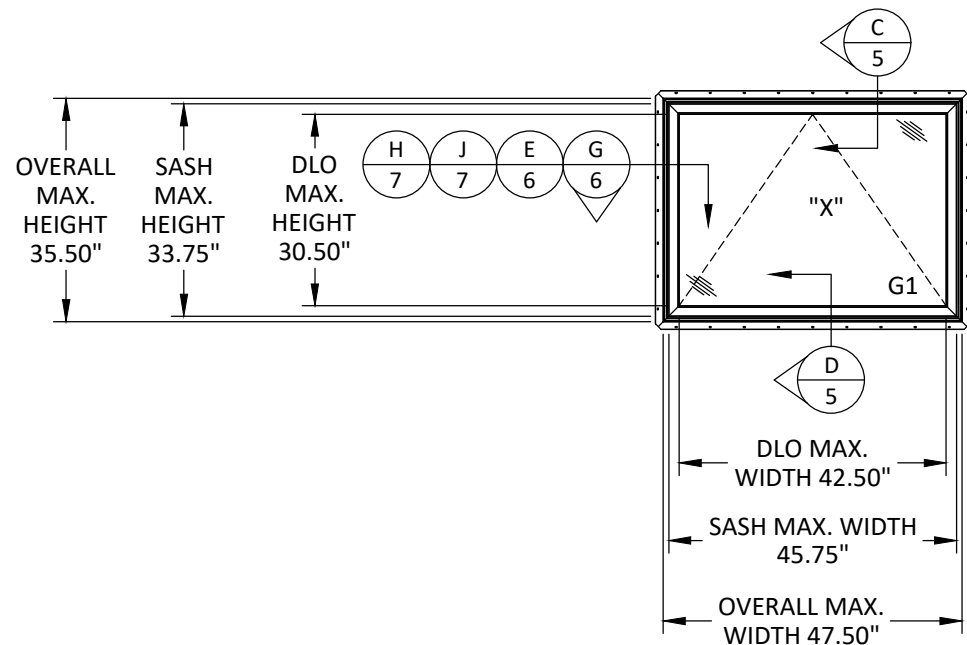
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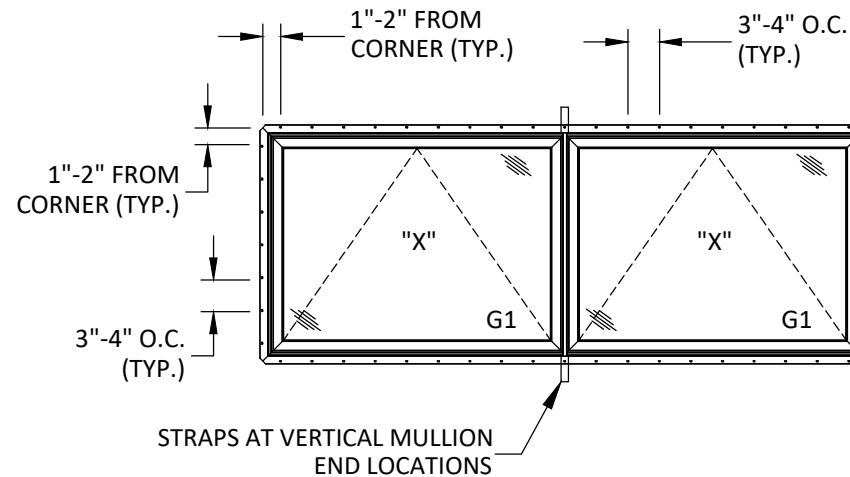
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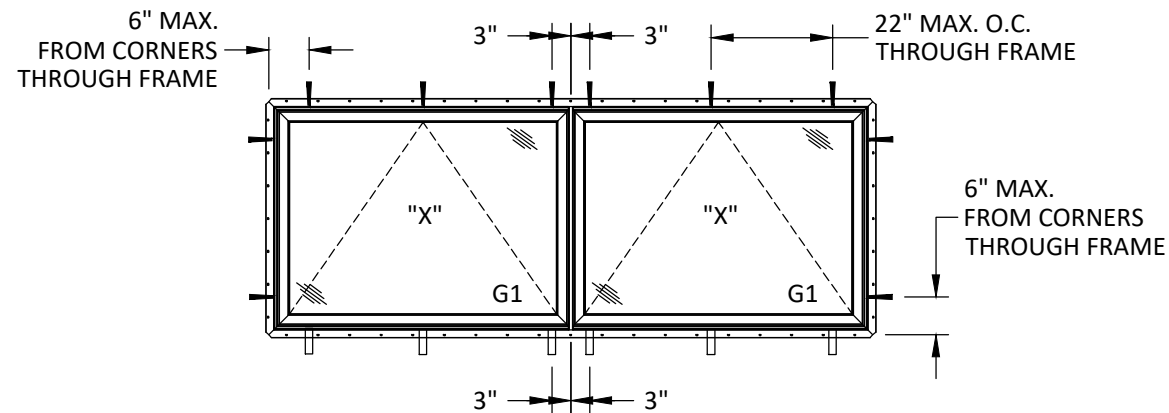
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AW-AW



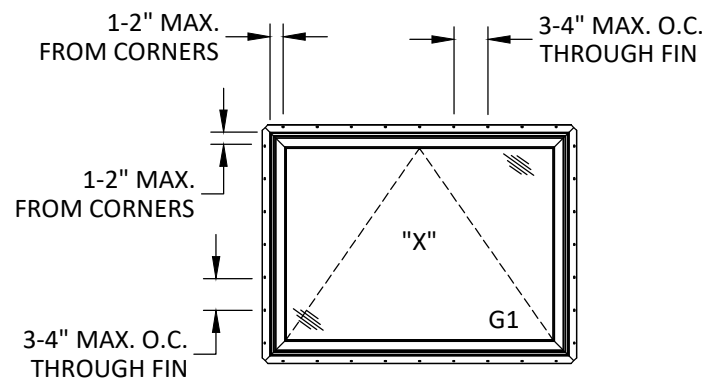
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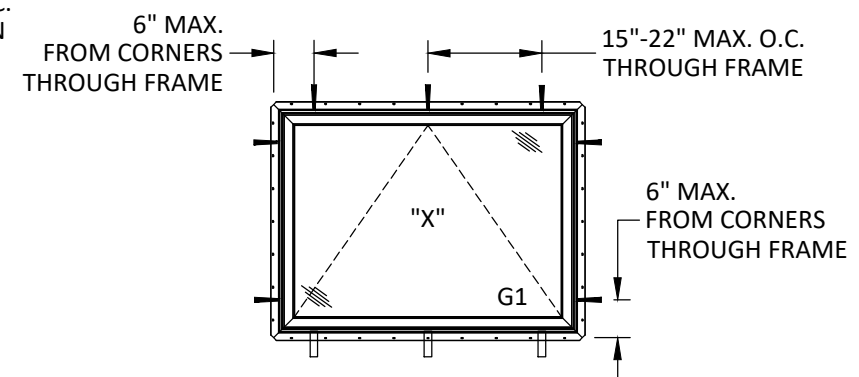
ANCHOR LAYOUT
NAIL FIN AND STRAP



ANCHOR LAYOUT
THROUGH FRAME + STRAP
INSTALLATION



ANCHOR LAYOUT
NAIL FIN INSTALLATION



ANCHOR LAYOUT
THROUGH FRAME + STRAP
INSTALLATION



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ELEVATIONS & ANCHOR LAYOUTS

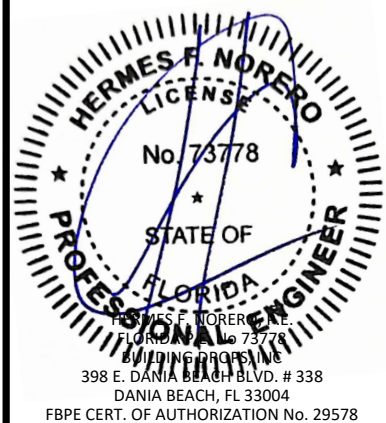
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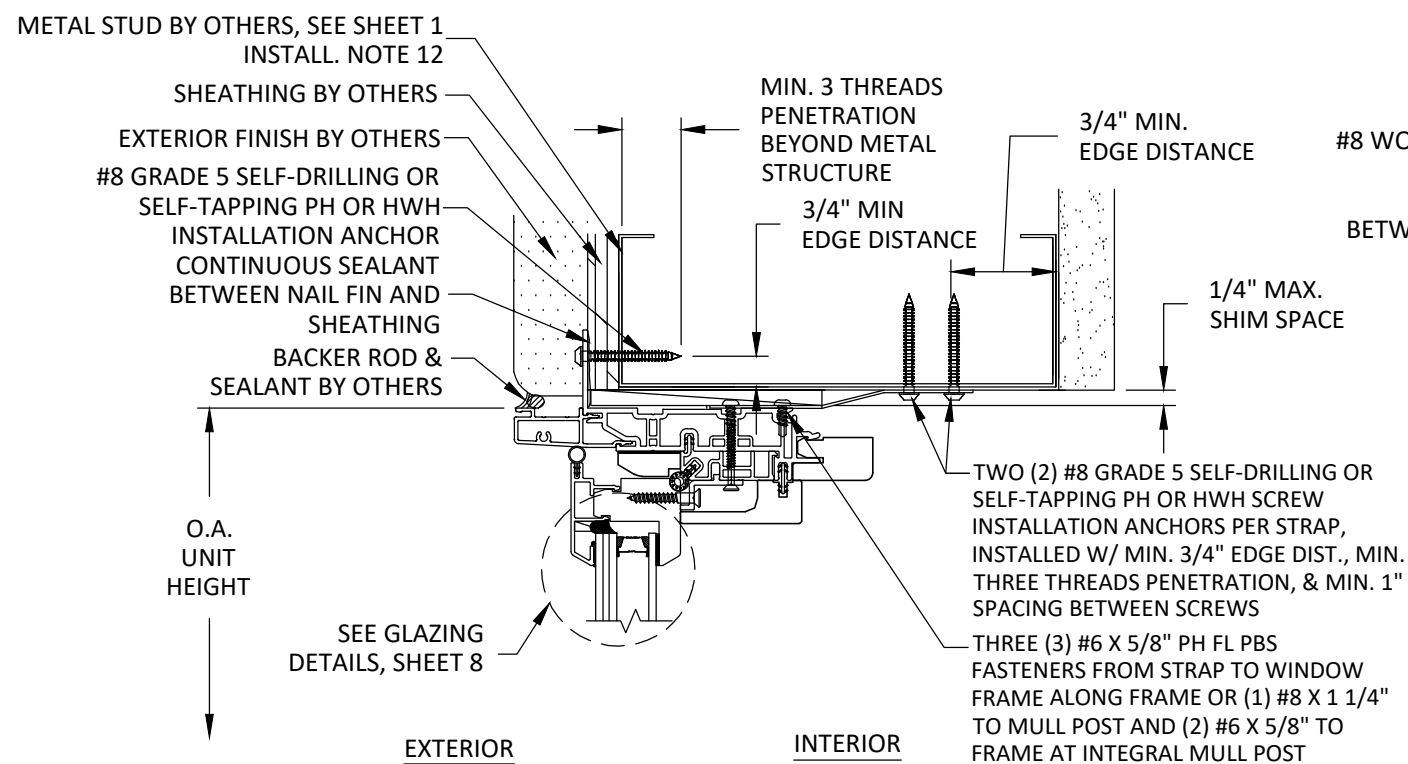
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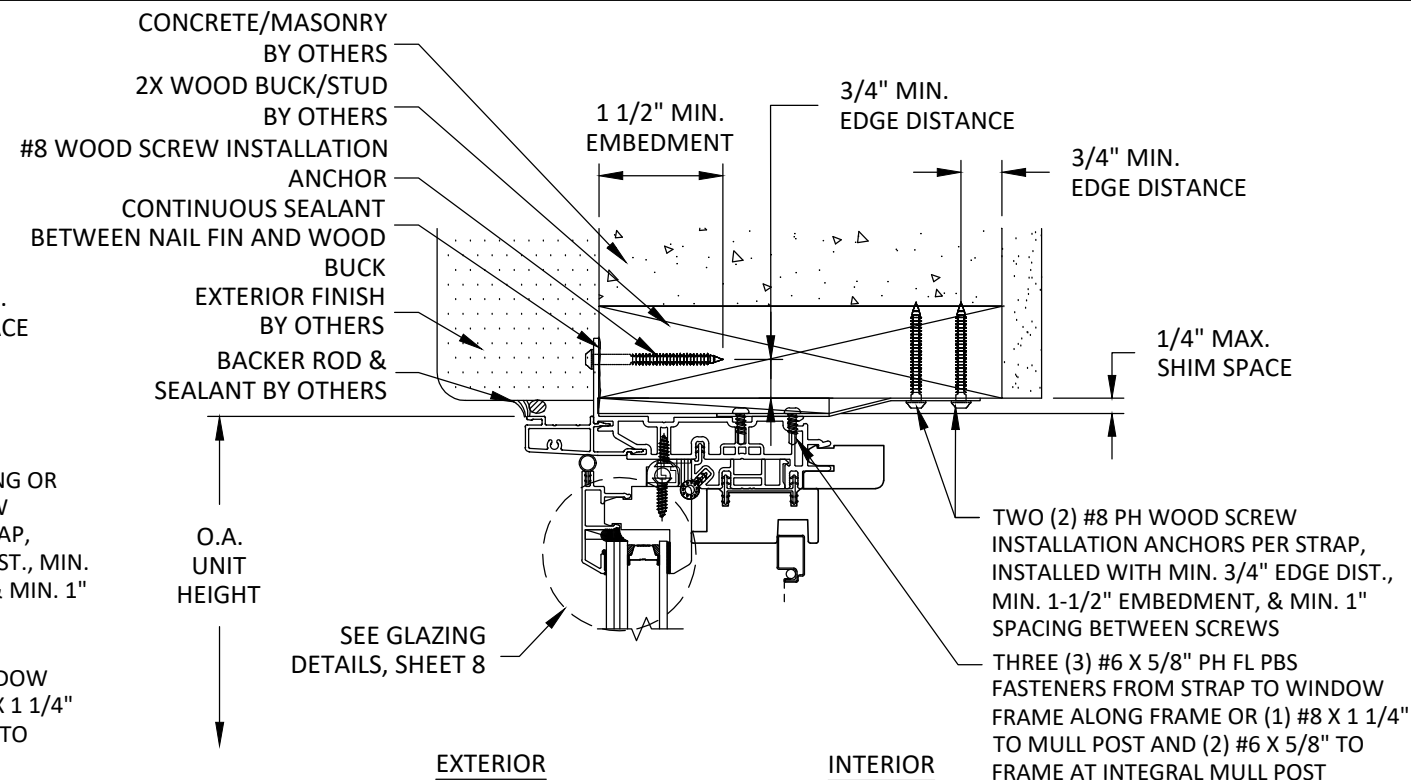


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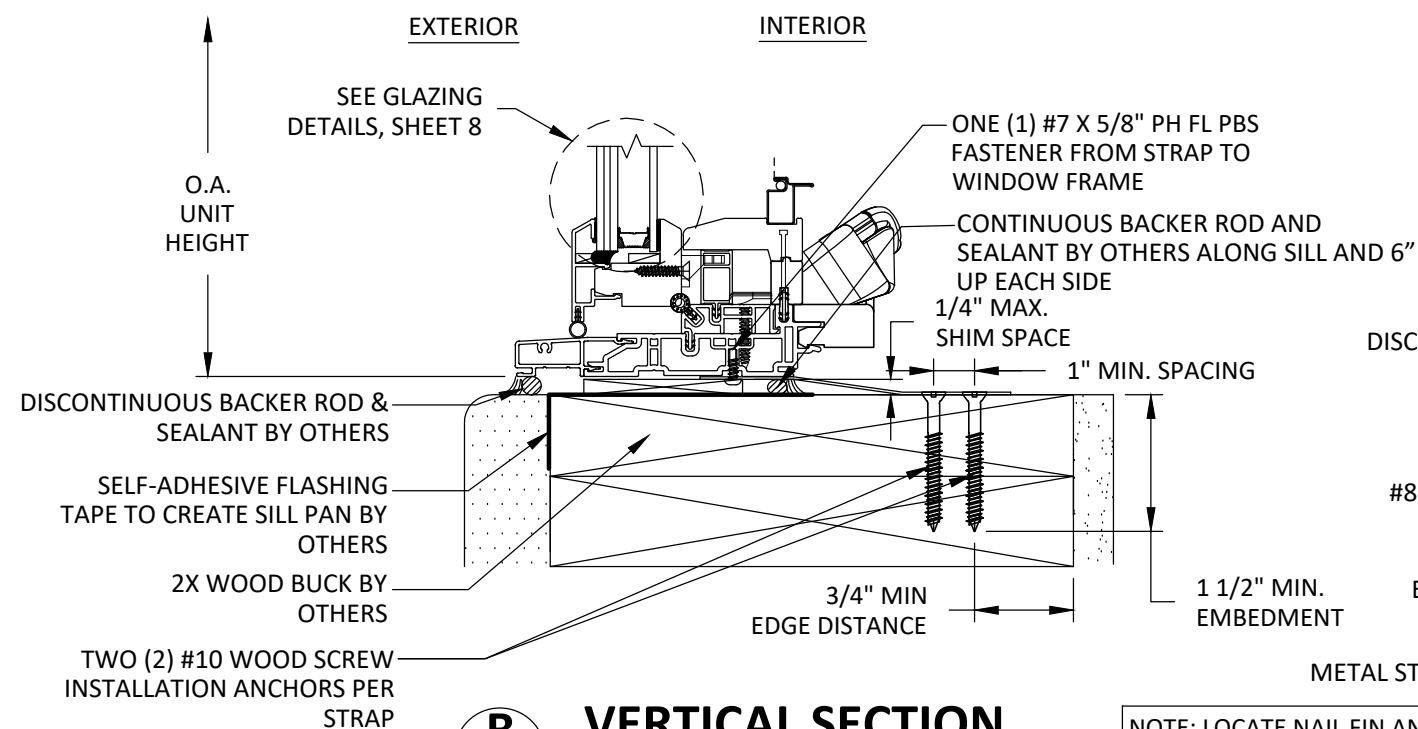
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A
5 **VERTICAL SECTION**
FIXED HEAD-METAL STUD
FIN + STRAP INSTALLATION

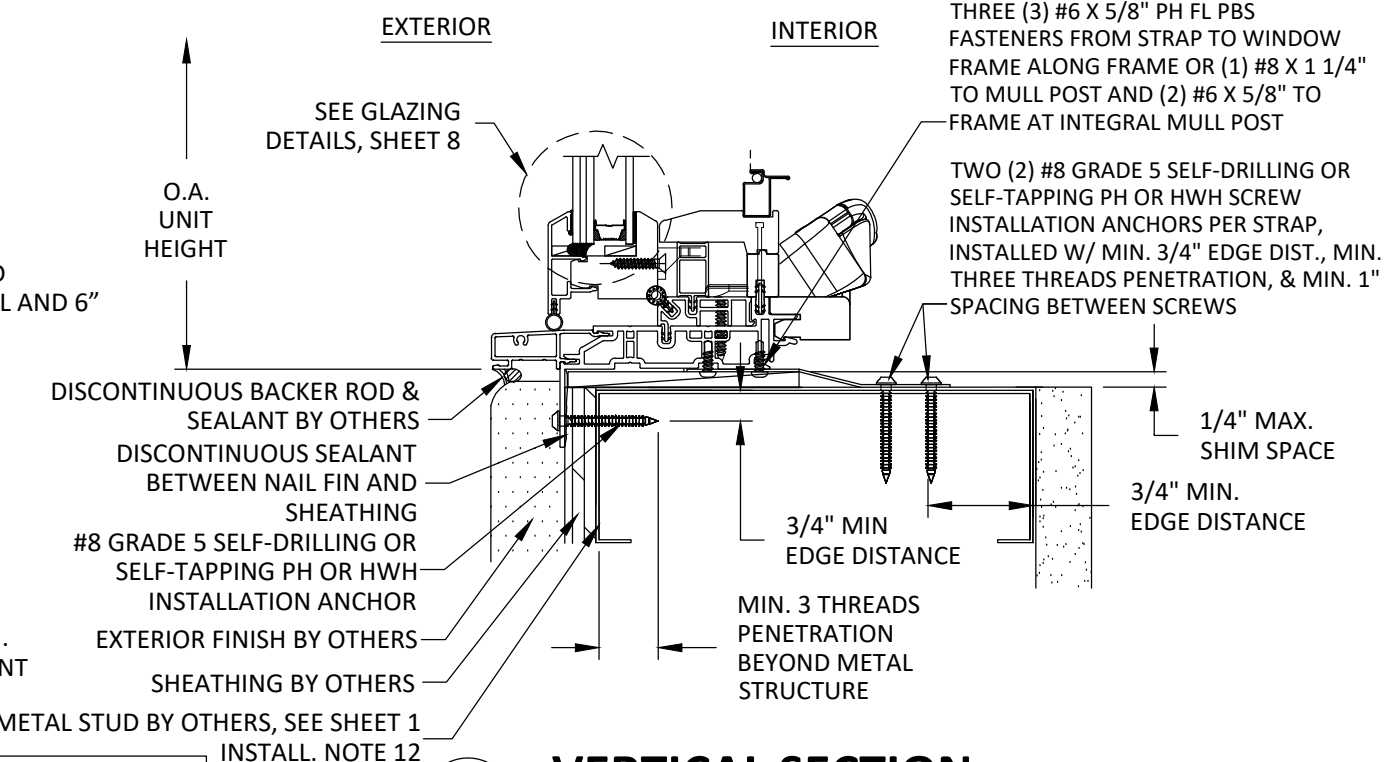


C
5 **VERTICAL SECTION**
OPERABLE HEAD-2X WOOD BUCK
FIN + STRAP INSTALLATION



B
5 **VERTICAL SECTION**
OPERABLE SILL - 1X WOOD BUCK
FLEXIBLE SILL PAN INSTALLATION

NOTE: LOCATE NAIL FIN AND STRAP ANCHORS AS INDICATED ON ANCHOR LAYOUT ELEVATIONS, SHEETS 2-4



D
5 **VERTICAL SECTION**
OPERABLE SILL-STEEL STUD
FIN + STRAP INSTALLATION



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VERTICAL SECTIONS

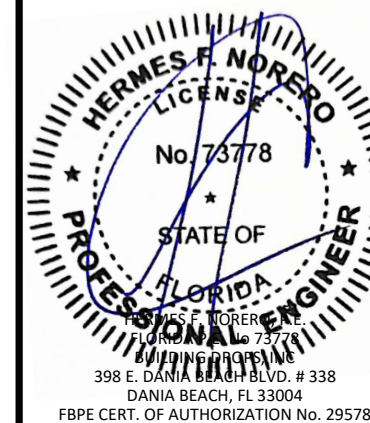
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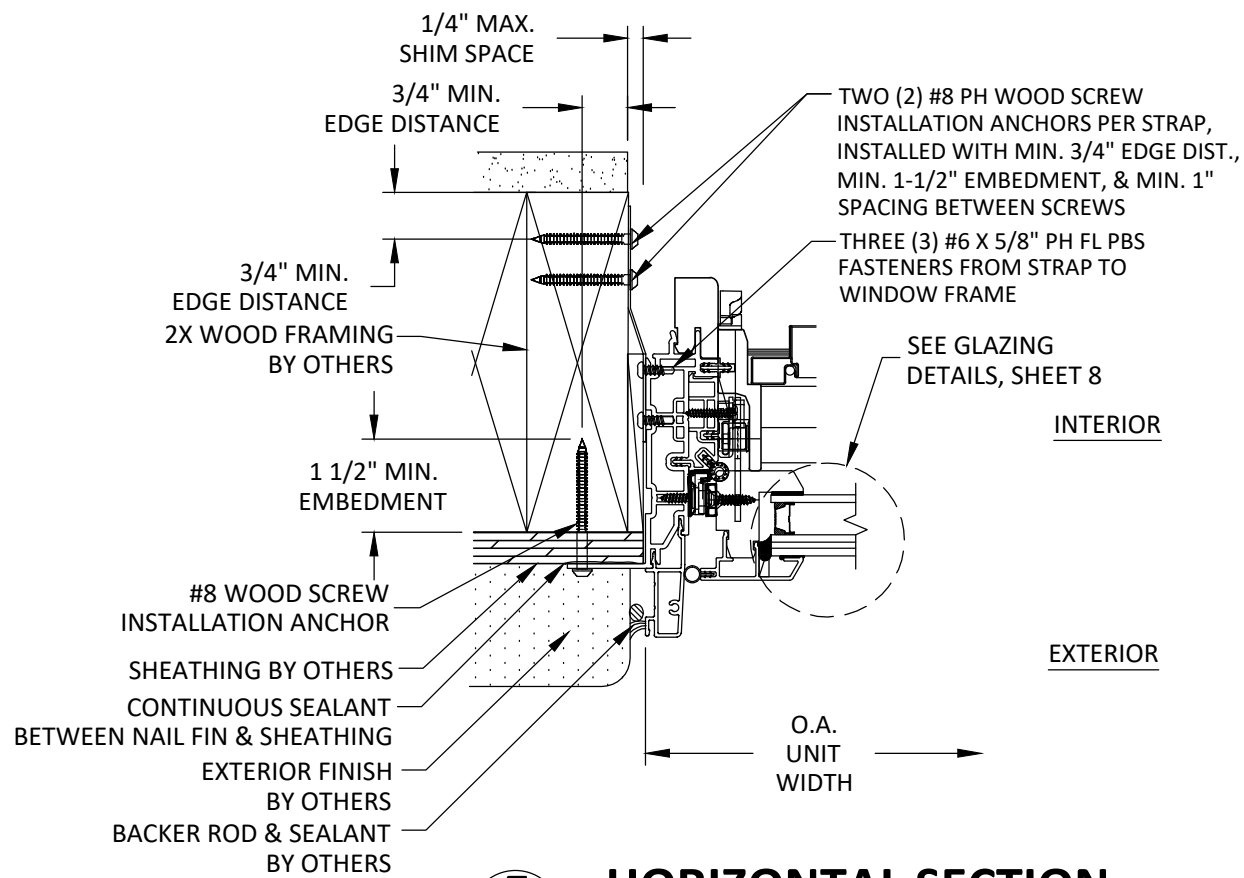
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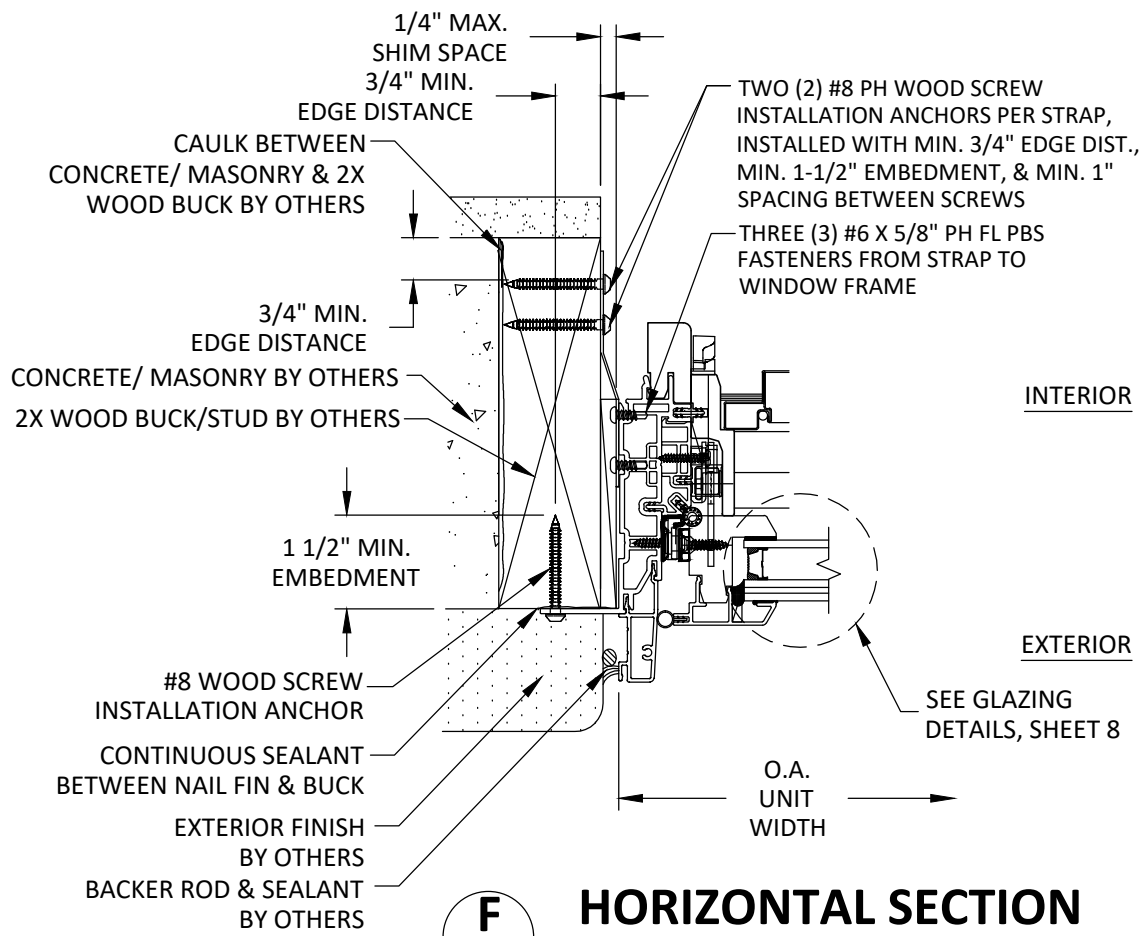
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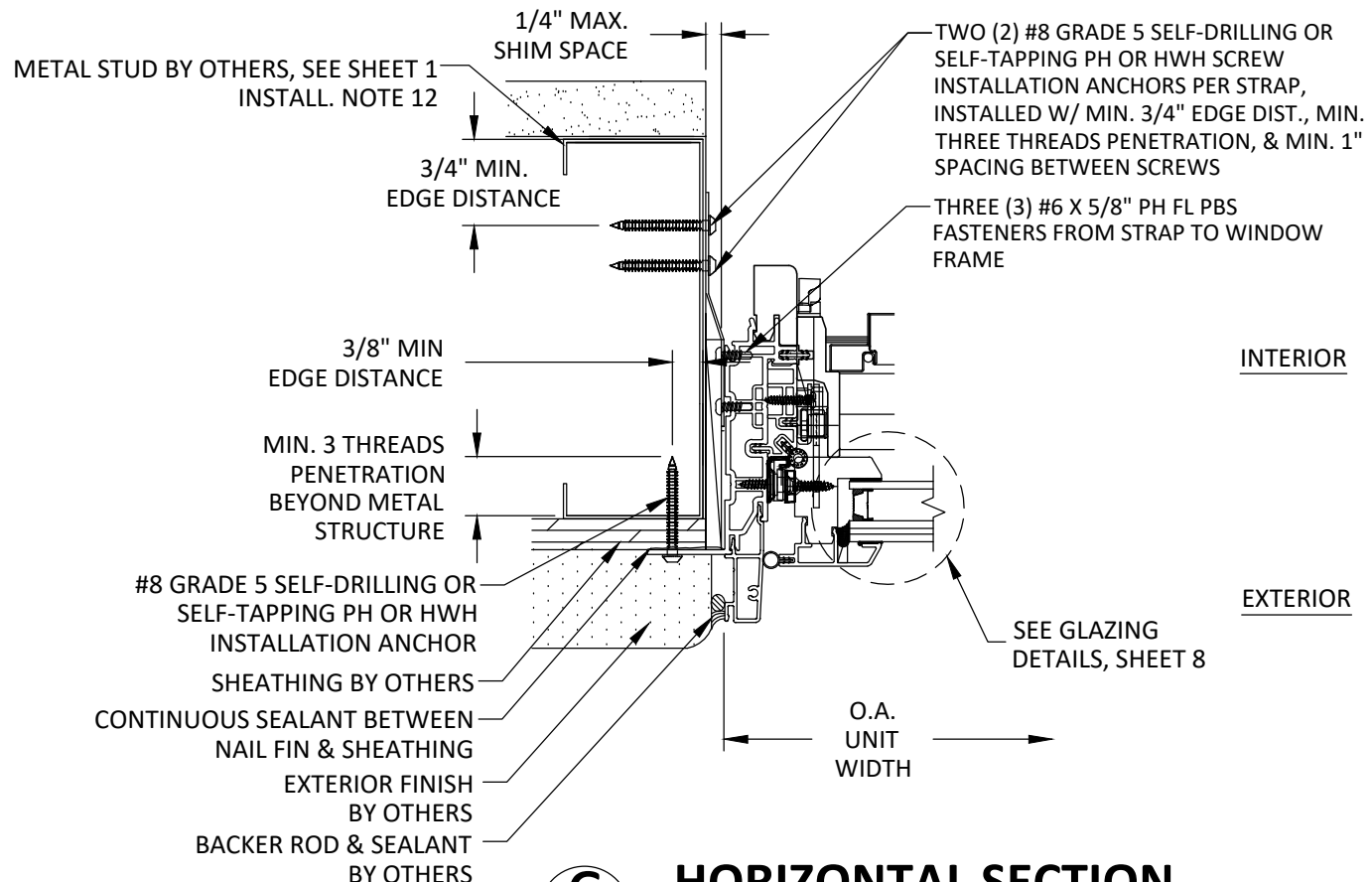
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E
6 **HORIZONTAL SECTION**
OPERABLE VENT JAMB - 2X WOOD FRAME
FIN + STRAP INSTALLATION



F
6 **HORIZONTAL SECTION**
FIXED JAMB - WOOD BUCK
FIN + STRAP INSTALLATION



G
6 **HORIZONTAL SECTION**
OPERABLE VENT JAMB - STEEL STUD
FIN + STRAP INSTALLATION

NOTE: LOCATE NAIL FIN AND STRAP ANCHORS AS INDICATED ON ANCHOR LAYOUT ELEVATIONS, SHEETS 2-4



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HORIZONTAL SECTIONS

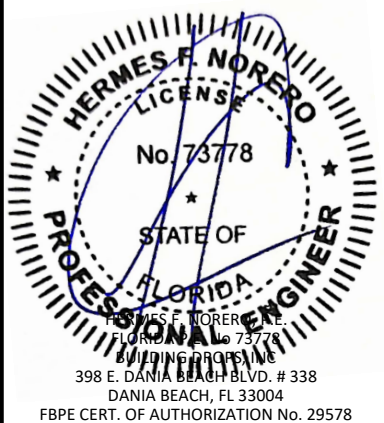
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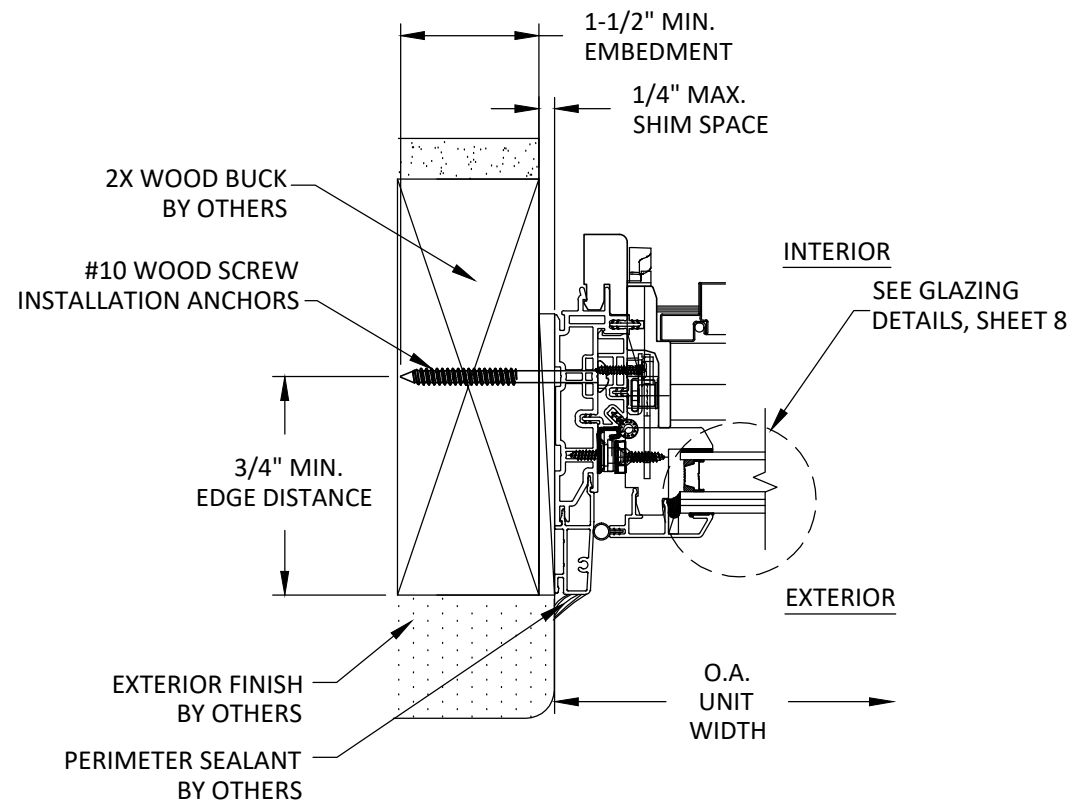
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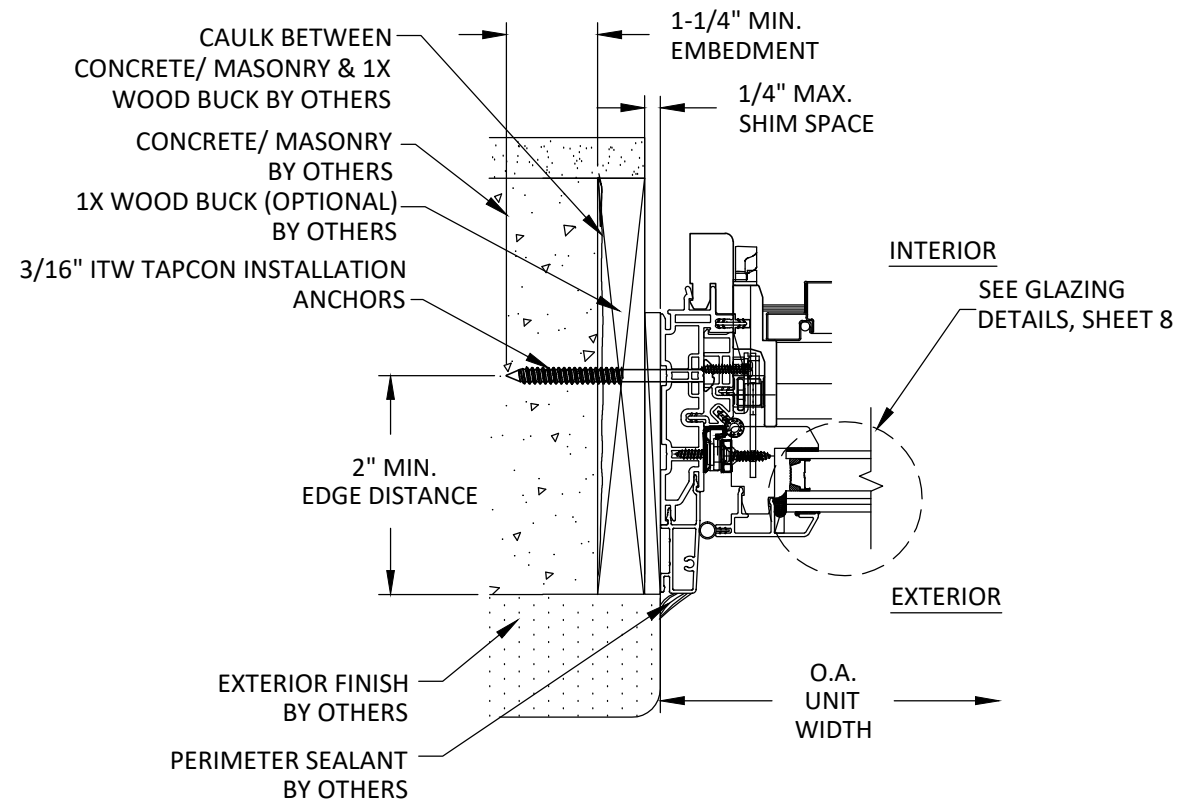


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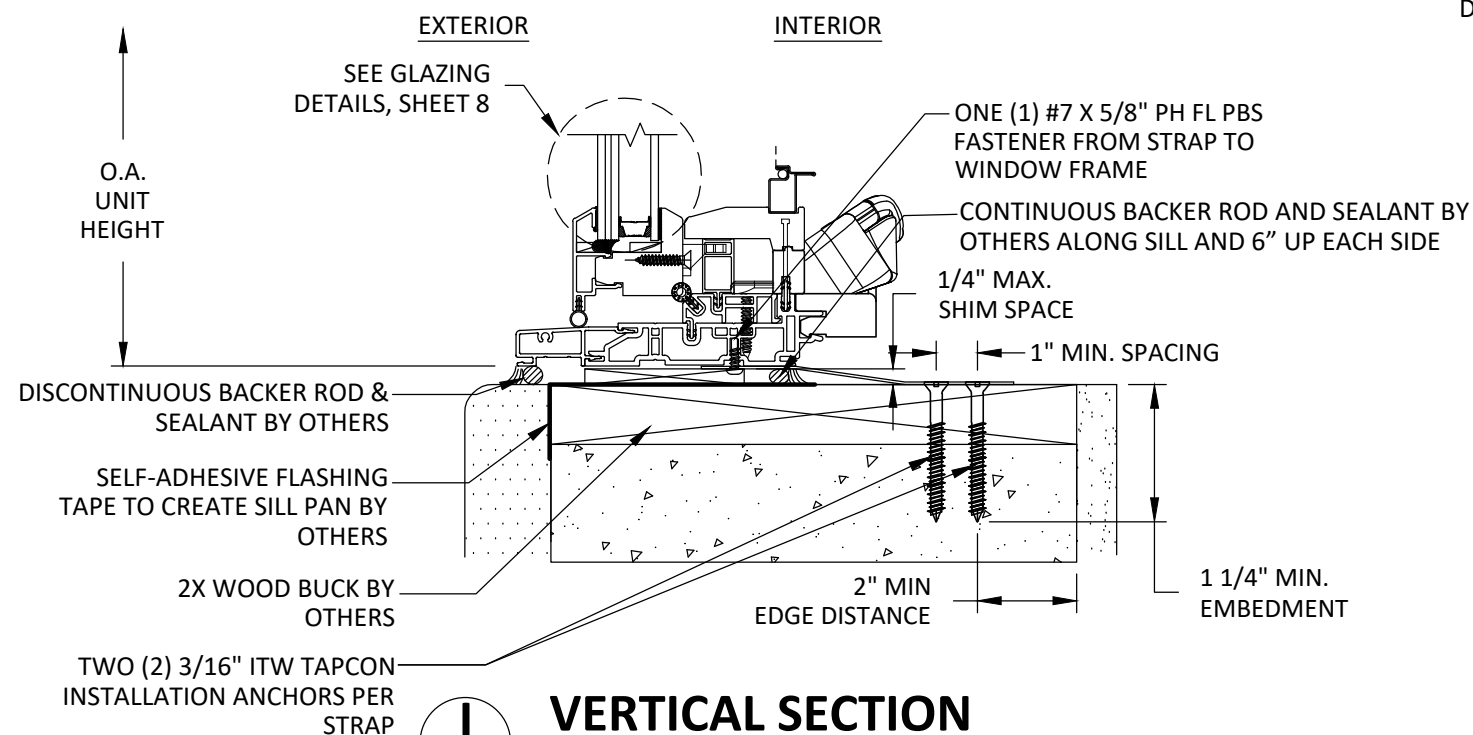
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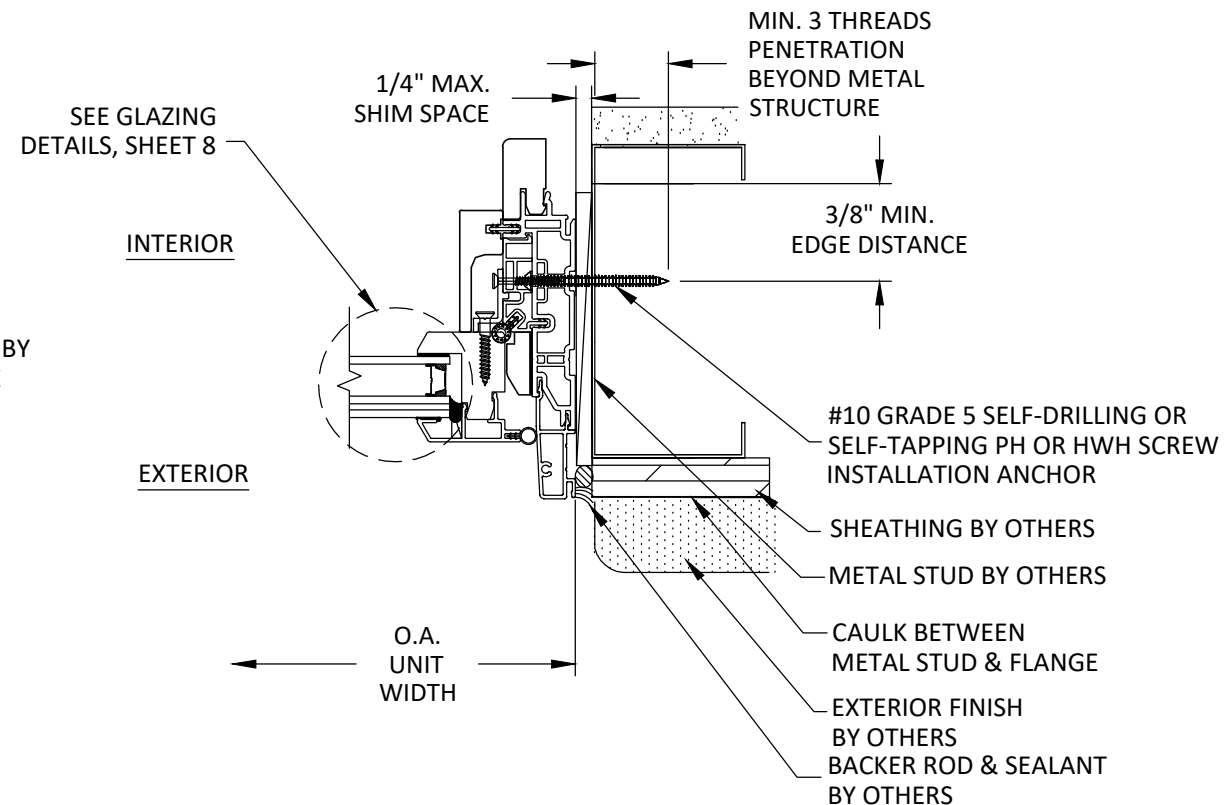
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7 **HORIZONTAL SECTION**
TOP OPERABLE VENT JAMB - 2X WOOD FRAME
THROUGH FRAME INSTALLATION



J
7 **HORIZONTAL SECTION**
TOP OPERABLE VENT JAMB/MASONRY/1X WOOD BUCK
THROUGH FRAME INSTALLATION



I
7 **VERTICAL SECTION**
OPERABLE SILL - CONCRETE/MASONRY
STRAP INSTALLATION



K
7 **HORIZONTAL SECTION**
FIX JAMB - METAL STUD
THROUGH FRAME INSTALLATION



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TITLE: FEELSAFE H3 2.0
AWNING WINDOWS
(WZ3)(IMPACT)

VERTICAL/HORIZONTAL SECTIONS

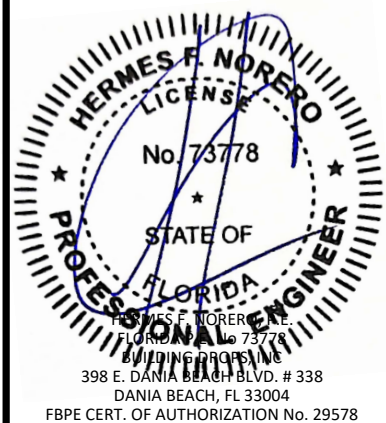
PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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FAX: (954) 744-4738
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REMARKS	BY	DATE
CODE CHANGE 2020	YC	10/20
ADDITIONAL DETAILS	LL	02/22
CODE CHANGE 2023	MG	08/23

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FL #:	FL23010
DATE:	10.06.2020
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SPW007
SHEET:	7

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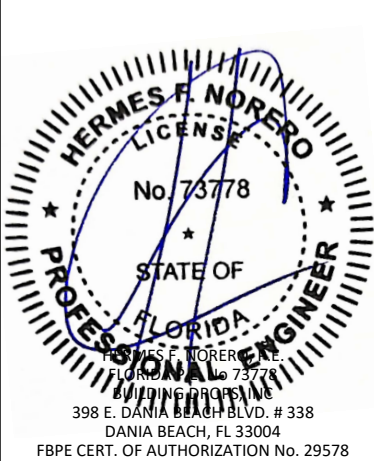
GLAZING DETAILS & HORIZONTAL
SECTIONS

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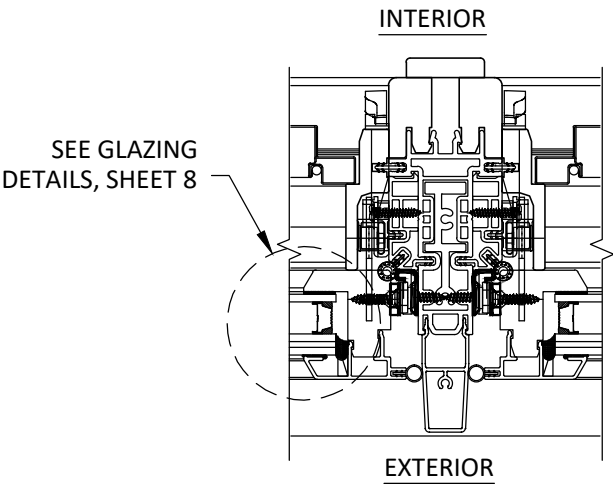
DATE: **10.06.2020**

DWG. BY: **YC**CHK. BY: **HFN**

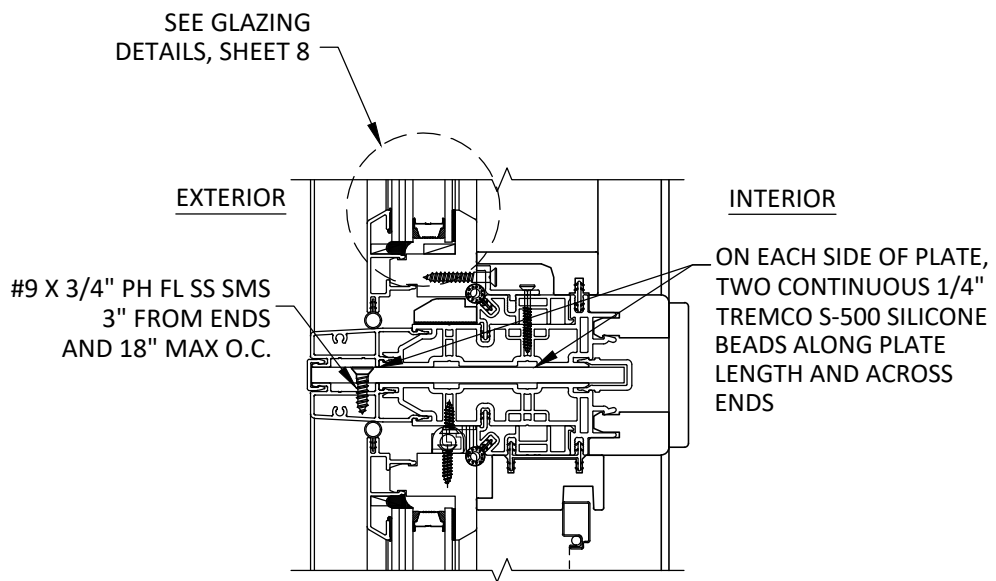
SCALE: **NTS**

DWG. #: **SPW007**

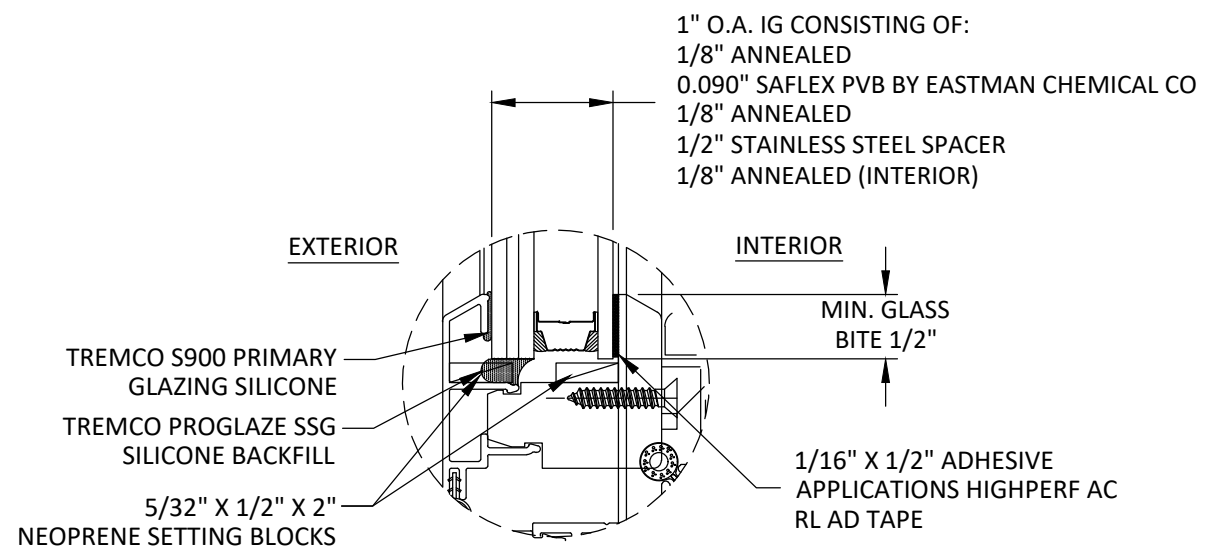
SHEET:
8
OF 10



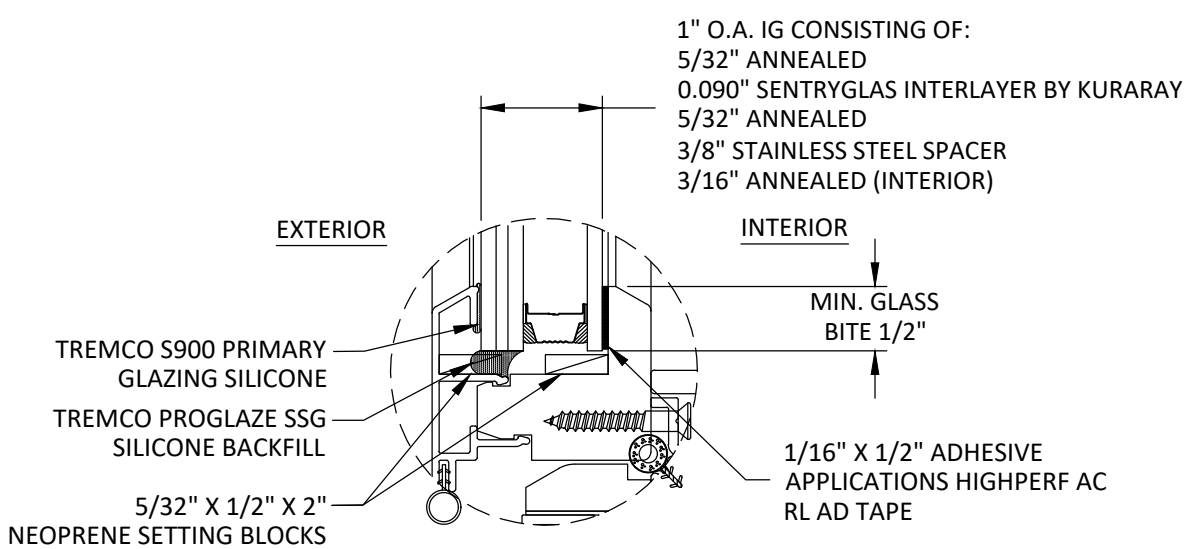
L
8
HORIZONTAL SECTION
INTEGRAL MULLION AT OPERABLE VENTS



M
8
VERTICAL SECTION
HORIZONTAL 1/4" X 5" ALUMINUM MULLION
FIXED TRANSOM OVER TWIN AWNING



G1 GLAZING DETAIL



G2 GLAZING DETAIL

- GLAZING 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. MAY NOT EXCEED MAX DIMENSIONS SHOWN ON ELEVATIONS

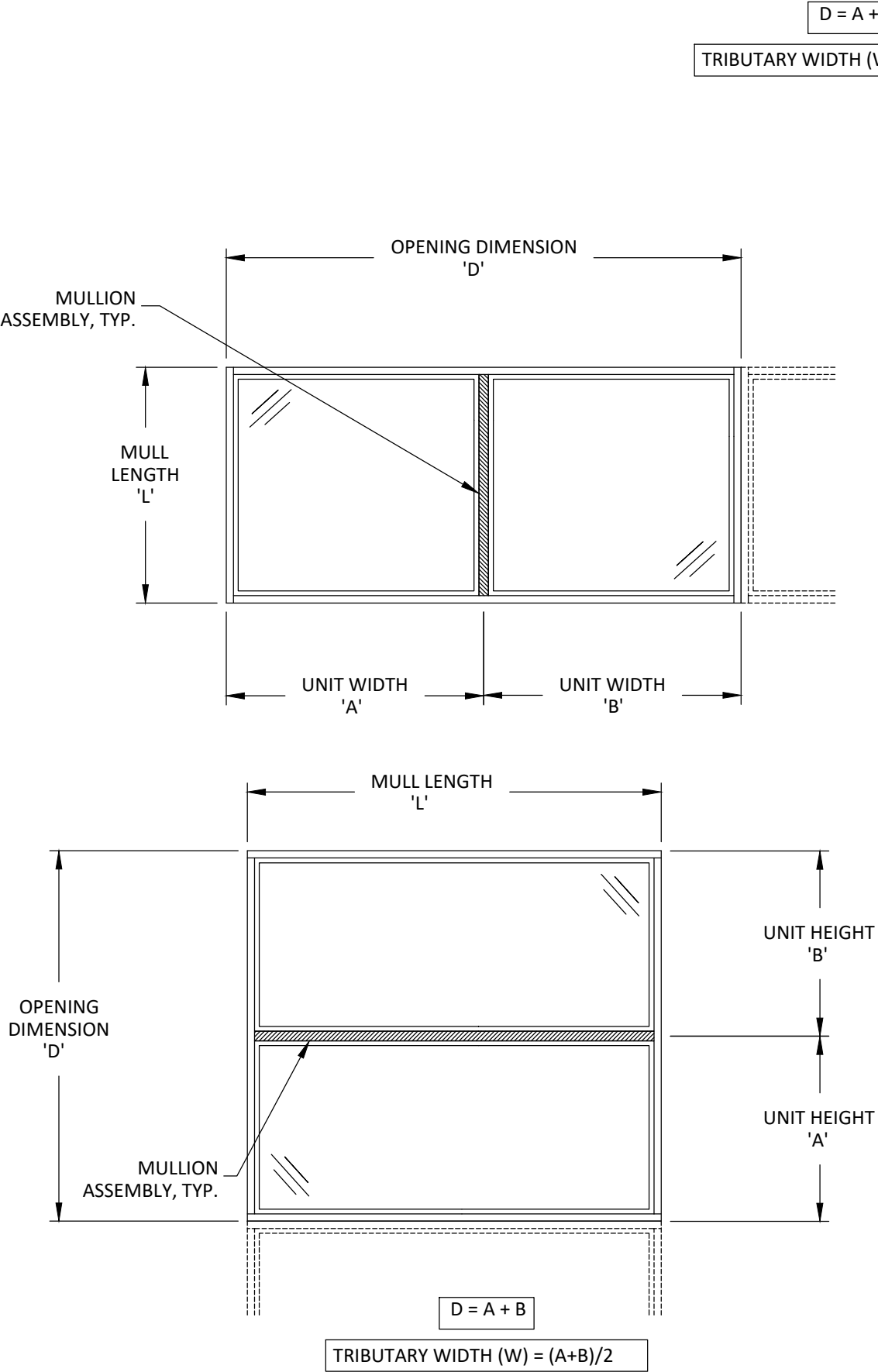
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AWNING TO AWNING INTEGRAL MULLION
ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

MAXIMUM DESIGN PRESSURE CAPACITY CHART ONE WAY AWNING TO AWNING INTEGRAL MULLION			
TRIBUTARY WIDTH (IN.)	LENGTH (IN.)	DESIGN PRESSURE (PSF)	
		POS (+)	NEG (-)
30	24	50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
54		50.0	60.0
60	30	50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
54	35.50	50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
47.25		50.0	60.0
30	42	50.0	60.0
36		46.4	55.7
38		45.7	54.9
30	48	31.9	38.3
34		29.6	35.5

NOTES:

- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAILS ON SHEET 8.
- WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.



$D = A + B$

TRIBUTARY WIDTH (W) = (A+B)/2



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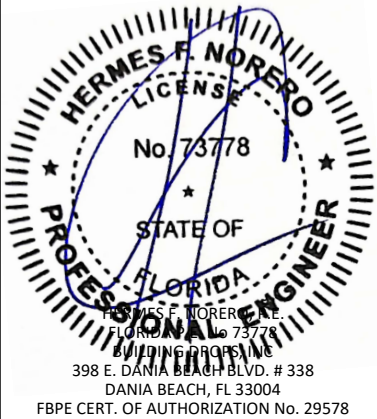
ONE-WAY DESIGN PRESSURE TABLES

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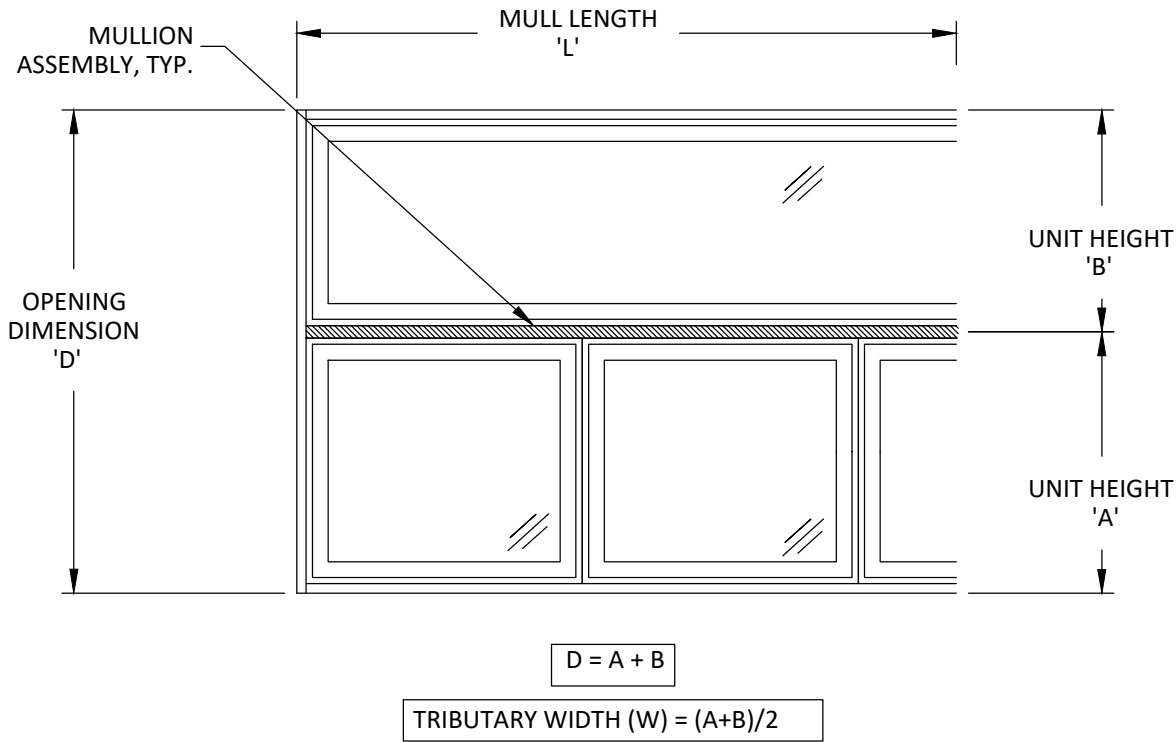


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1/4" PLATE REINFORCED MULLION
TWO-WAY CONFIGURATIONS (WITH INTERMEDIATE MEMBERS)

MAXIMUM DESIGN PRESSURE CAPACITY CHART TWO WAY AWNING AND FIXED COMBINATIONS WITH 1/4" x 5" ALUMINUM PLATE MULLION			
TRIBUTARY WIDTH (IN.)	LENGTH (IN.)	DESIGN PRESSURE (PSF)	
		POS (+)	NEG (-)
30	66	50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
54		50.0	60.0
30	72	50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
30	78	50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
30	84	50.0	60.0
36		50.0	60.0
42		50.0	60.0
44		50.0	60.0
30	90	50.0	60.0
36		50.0	60.0
40		50.0	60.0
30	94.50	50.0	60.0
36		50.0	60.0
39.9375		50.0	60.0
30	96	50.0	60.0
36		50.0	60.0
38		50.0	60.0
30	102	50.0	60.0
36		44.1	52.9
30	108	44.6	53.5
34		39.3	47.2



- NOTES:
- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
 - THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAILS ON SHEET 5.
 - WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
 - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
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**SIERRA
PACIFIC
WINDOWS**

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TWO-WAY DESIGN PRESSURE TABLES

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HERMES F. NORERO
LICENSE
No. 73778
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FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO
FLORIDA LICENSE NO. 73778
AWNING WINDOWS
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL23010

DATE: 10.06.2020

DWG. BY: YC	CHK. BY: HFN
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SCALE: NTS

DWG. #: SPW007

SHEET:

10

OF 10