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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. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
C. GROUT-FILLED CMU-UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 200 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 2000 PSI.
E. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 35.9 MIL (0.0478" or 18 GAUGE).
F. ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/8".

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 4.

8. WINDOW FRAME MATERIAL: VINYL, WOOD, AND 6063-T5.

9. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 9 FOR GLAZING DETAILS.

SIERRA PACIFIC WINDOWS

FEELSAFE H3 2.0 FIXED CASEMENT WINDOWS

(WZ3)(IMPACT)

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DESIGN PRESSURE TABLE					
PRODUCT	MAX OVERALL SIZE		DESIGN PRESSURE	INSTALLATION METHOD	MISSILE IMPACT RATING
	WIDTH	HEIGHT			
PW-PW-PW	119.50"	71.50"	+50/-60 PSF	NAIL FIN AND STRAP OR THROUGH FRAME	LARGE AND SMALL MISSILE IMPACT RATED
PW-PW-PW W/ TRANSOMS	119.50"	99.25"			
PW	94.509"	43.875"			
PW	57.50"	71.50"			
PW-PW-PW	119.50"	27.50"			
PW	72.00"	72.00"	+50/-50 PSF		

*SEE SHEETS 10-11 FOR QUALIFIED ALTERNATE SIZES



SIERRA
PACIFIC
WINDOWS

11605 READING ROAD
PO BOX 8489
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TITLE: FEELSAFE H3 2.0 FIXED CASEMENT WINDOWS (WZ3)(IMPACT)
INSTALLATION & GENERAL NOTES

PREPARED BY:
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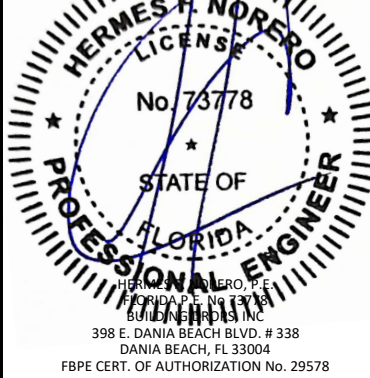


BUILDING DROPS

REMARKS	BY	DATE
CODE CHANGE 2020	YC	10/20
ADDITIONAL DETAILS	LL	02/22
CODE CHANGE 2023	MG	08/23

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Reason: I am approving this document
Date: 2023.09.08 14:38:54 -0400'



HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL23011

DATE: **05.22.2020**

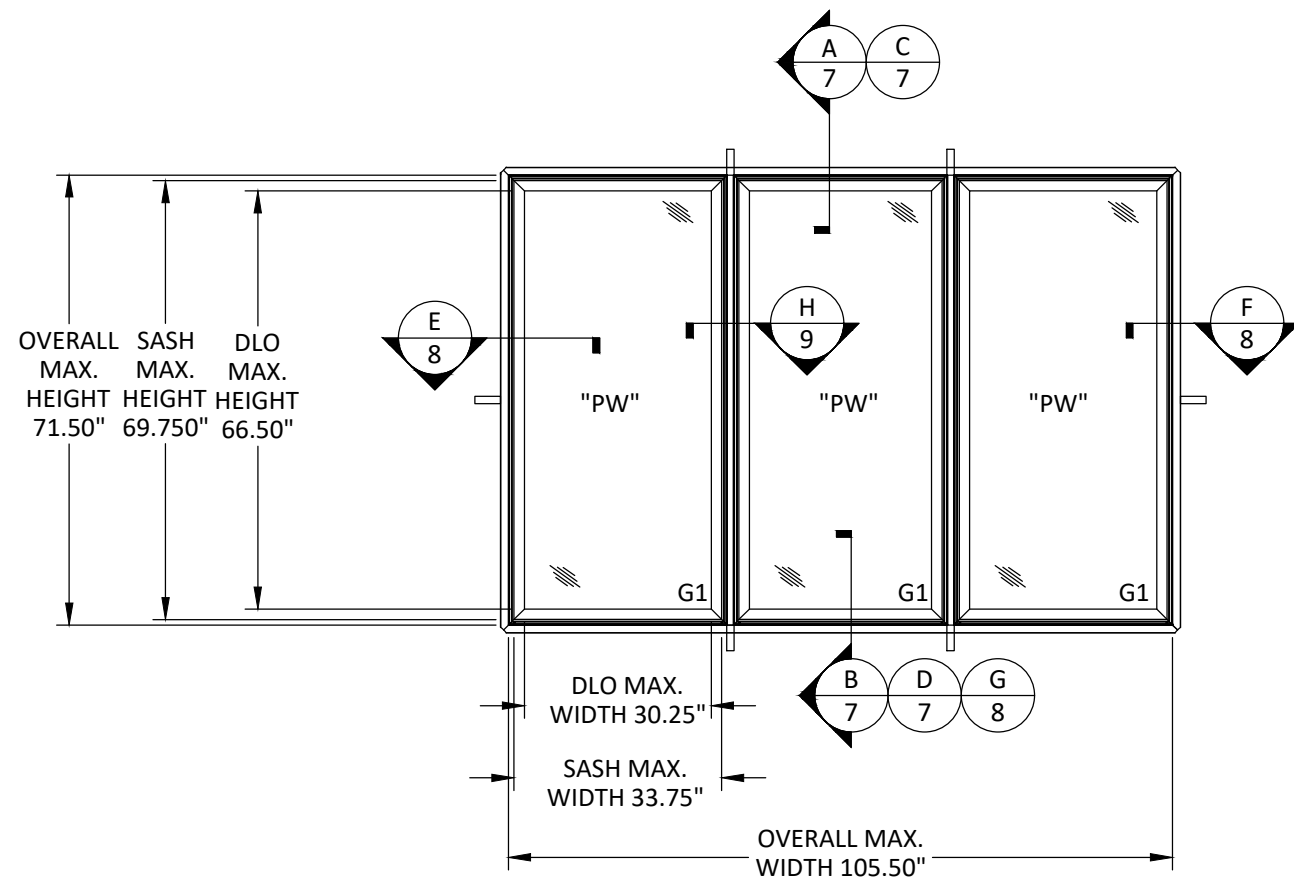
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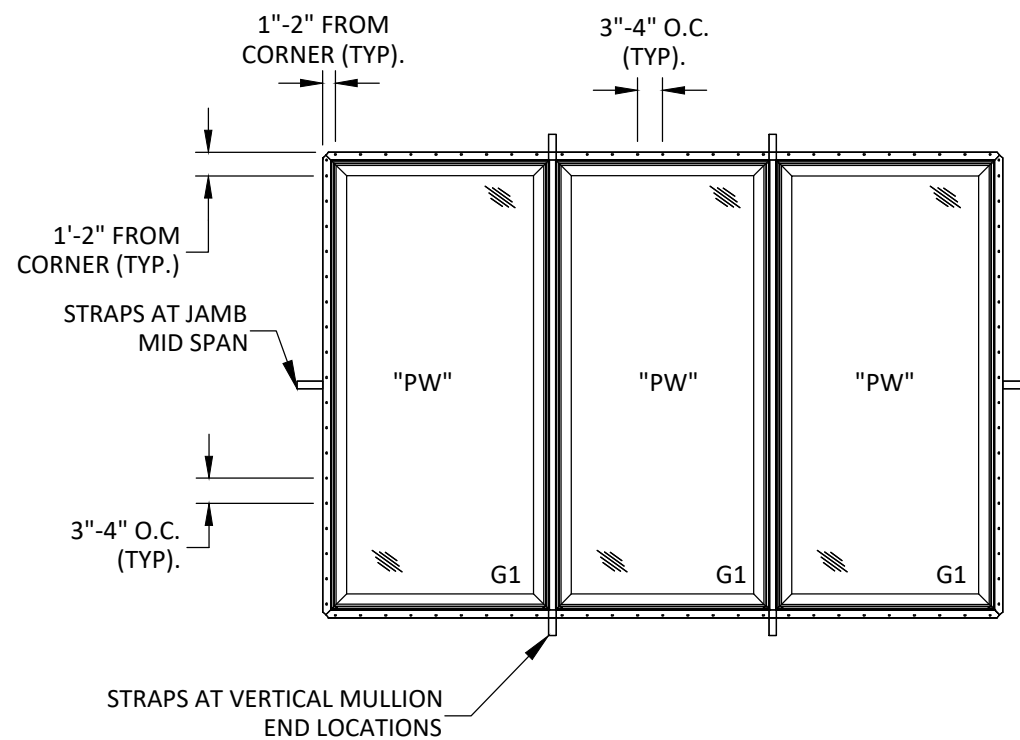
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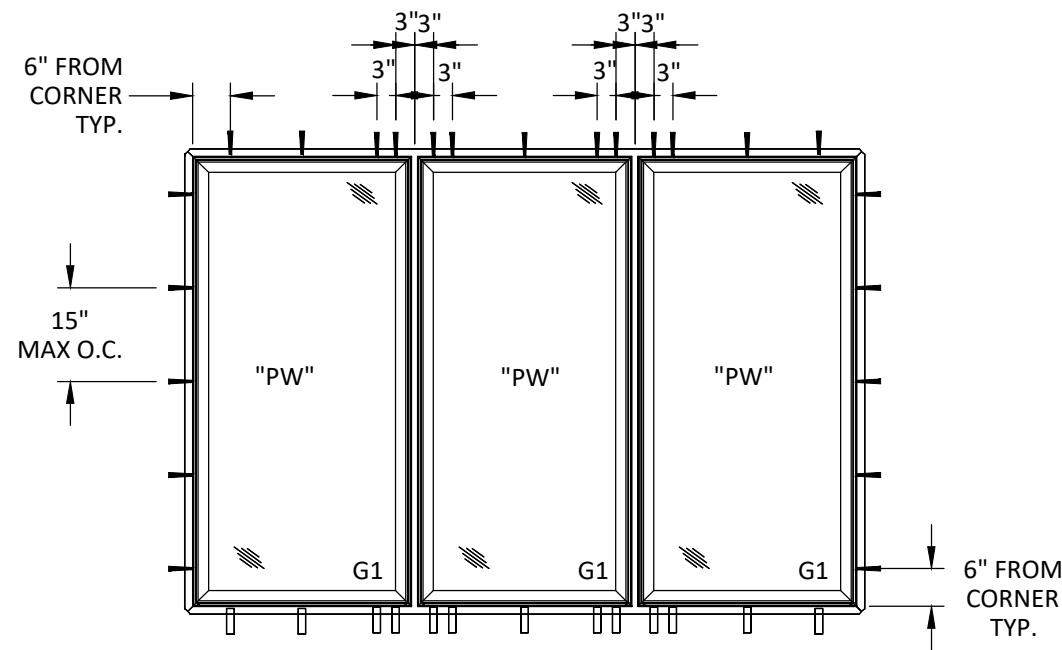
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EXTERIOR ELEVATION
PW-PW-PW



ANCHOR LAYOUT
PW-PW-PW
NAIL FIN AND STRAP



ANCHOR LAYOUT
PW-PW-PW
THROUGH FRAME + STRAP



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TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
ELEVATIONS & ANCHOR LAYOUTS

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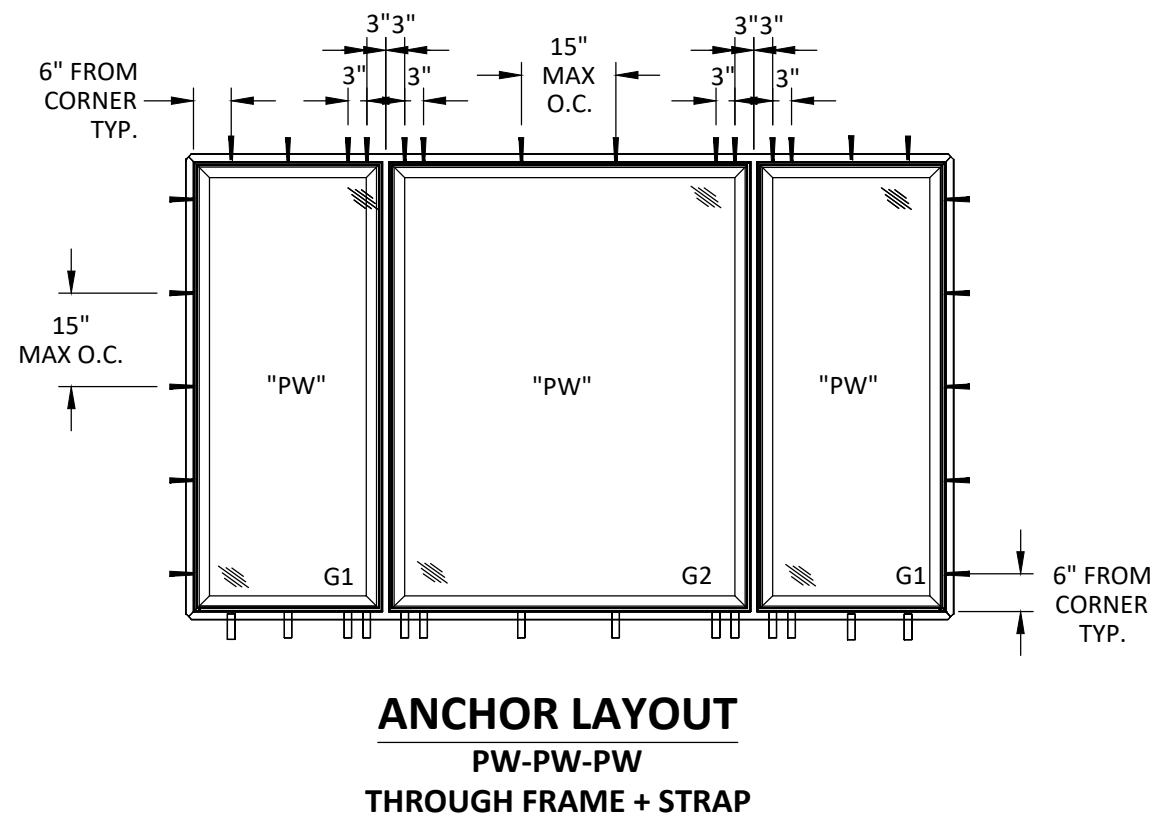
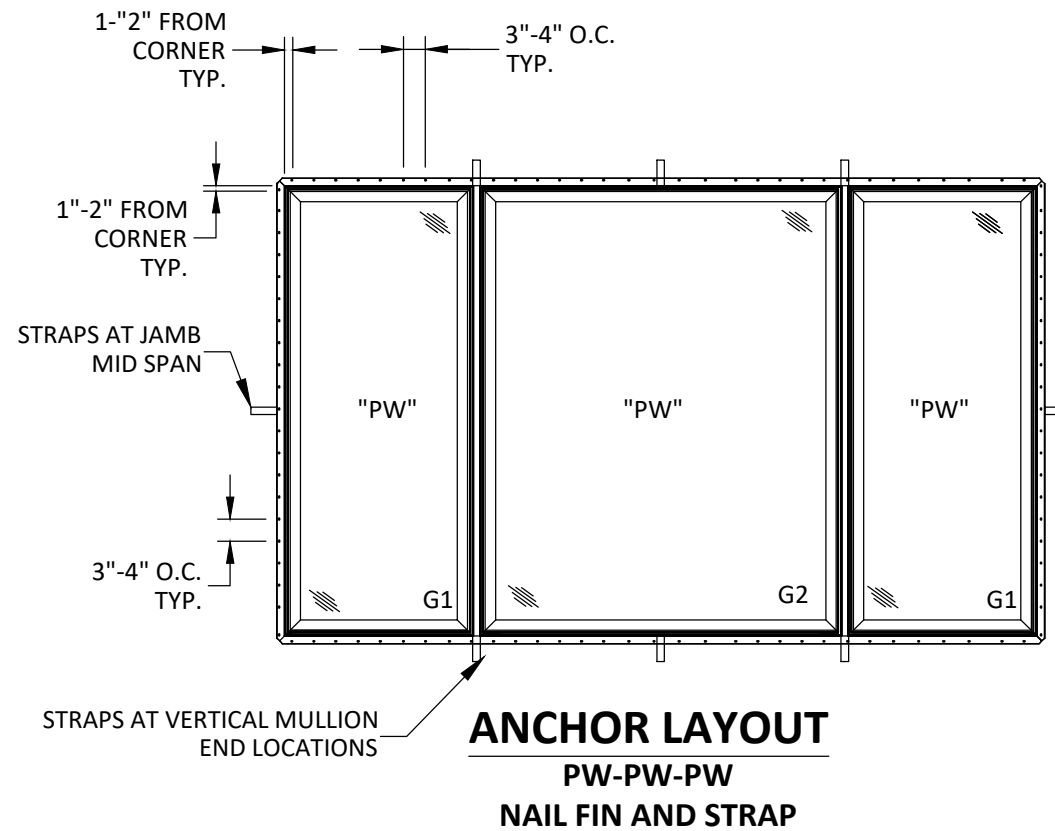
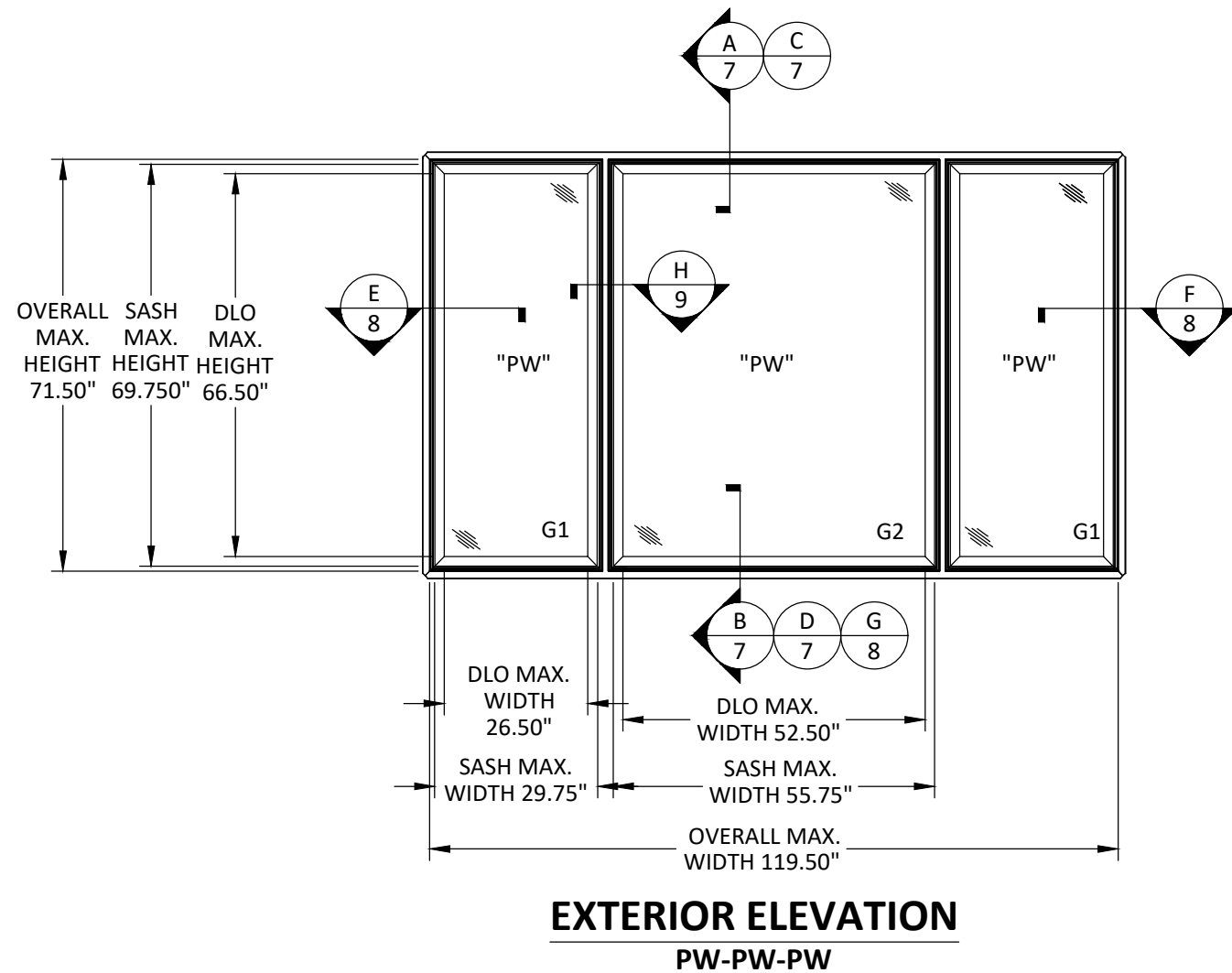
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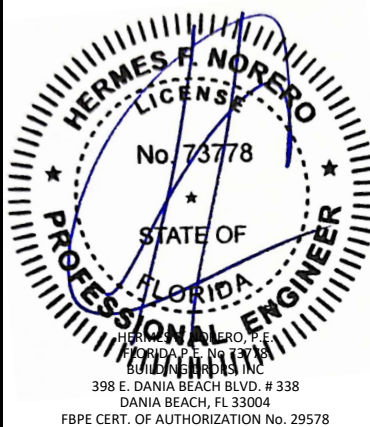
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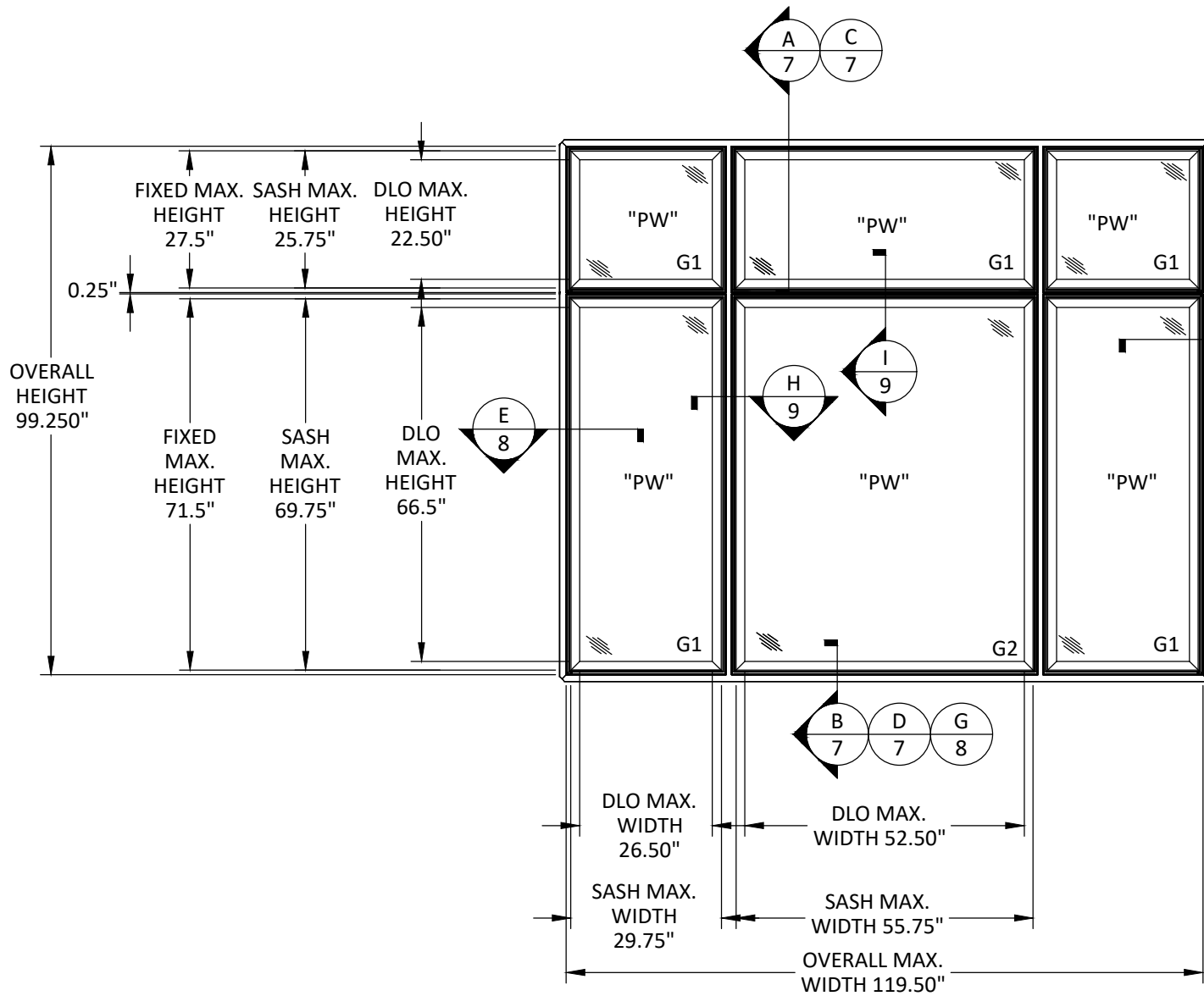
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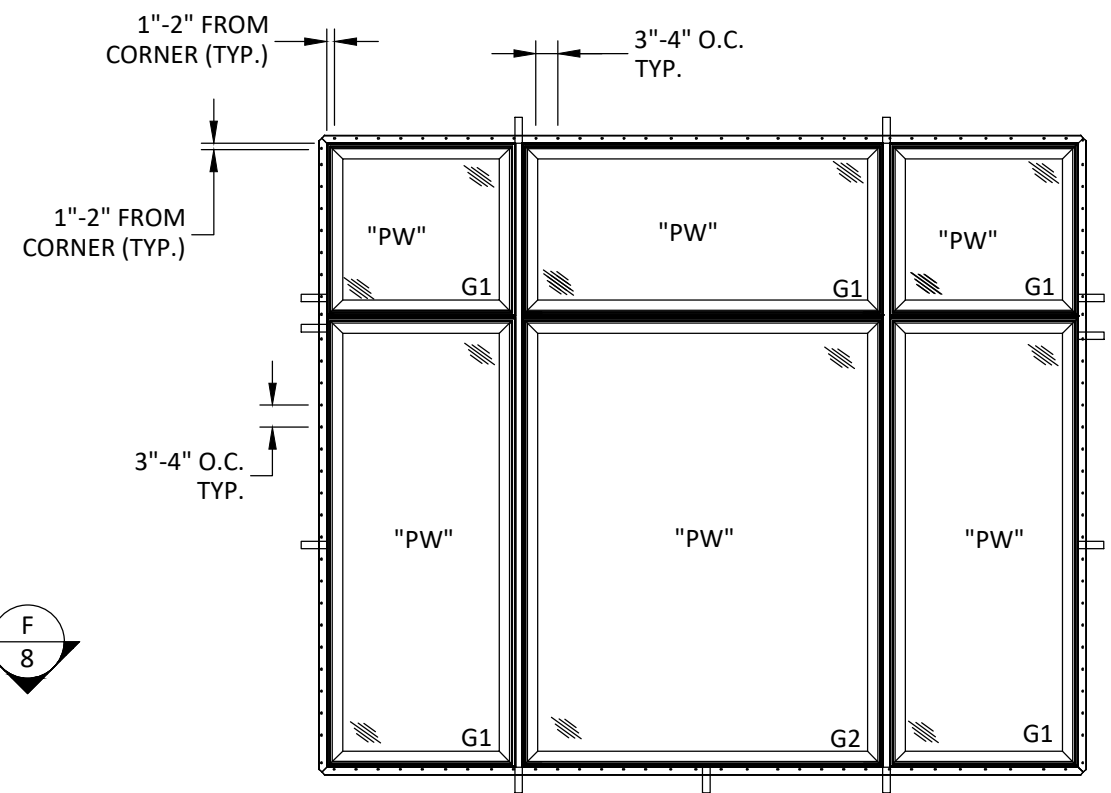


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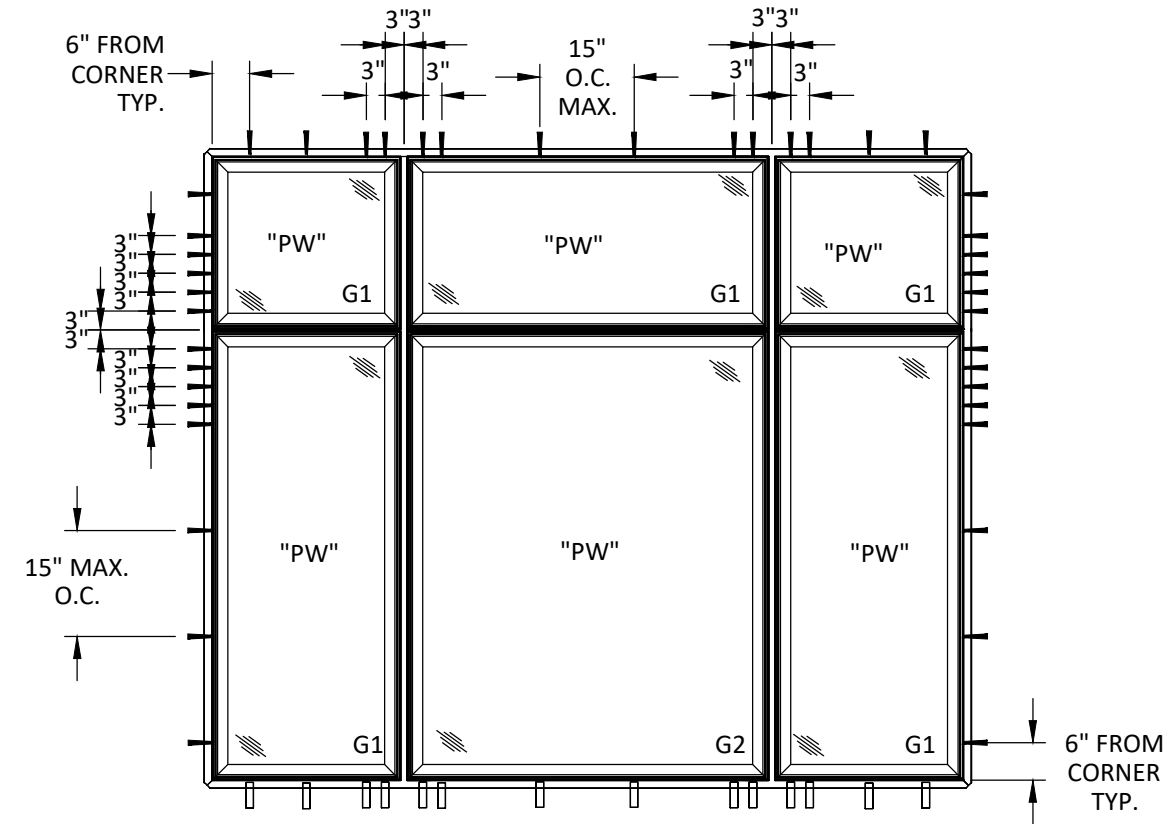
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EXTERIOR ELEVATION
PW-PW-PW
WITH TRANSOMS



ANCHOR LAYOUT
PW-PW-PW
NAIL FIN AND STRAP



ANCHOR LAYOUT
PW-PW-PW
THROUGH FRAME + STRAP

SIERRA PACIFIC WINDOWS

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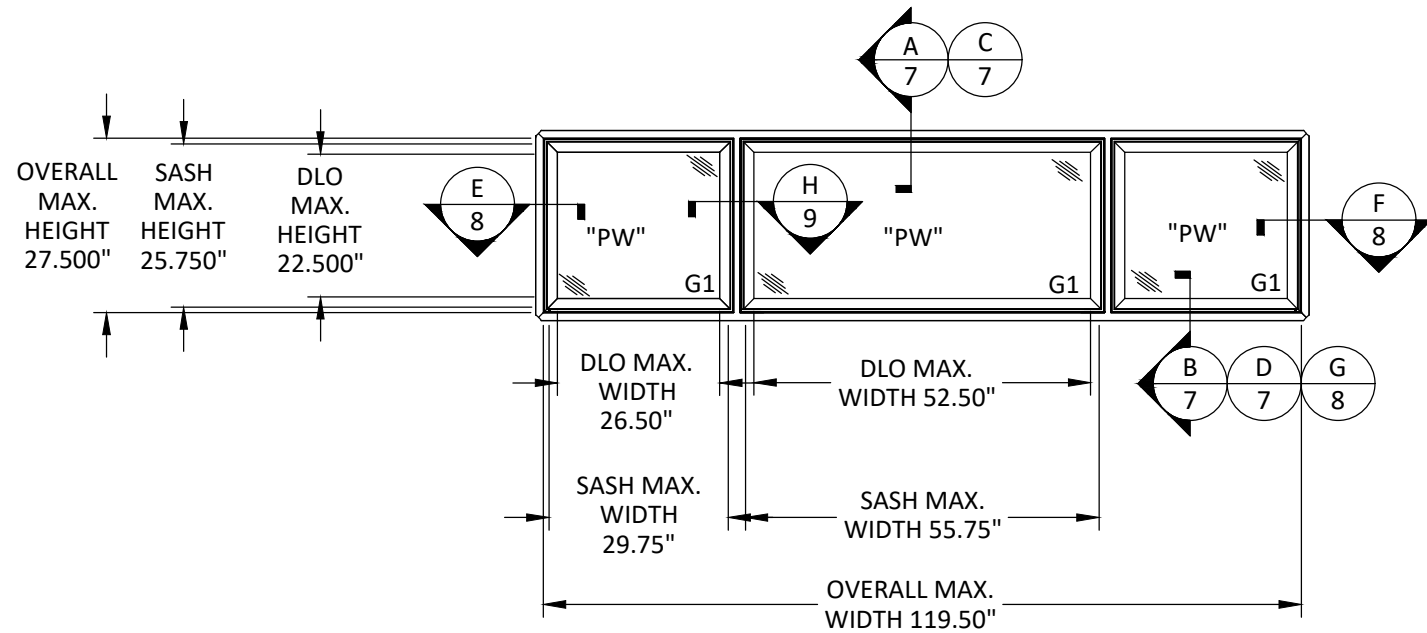
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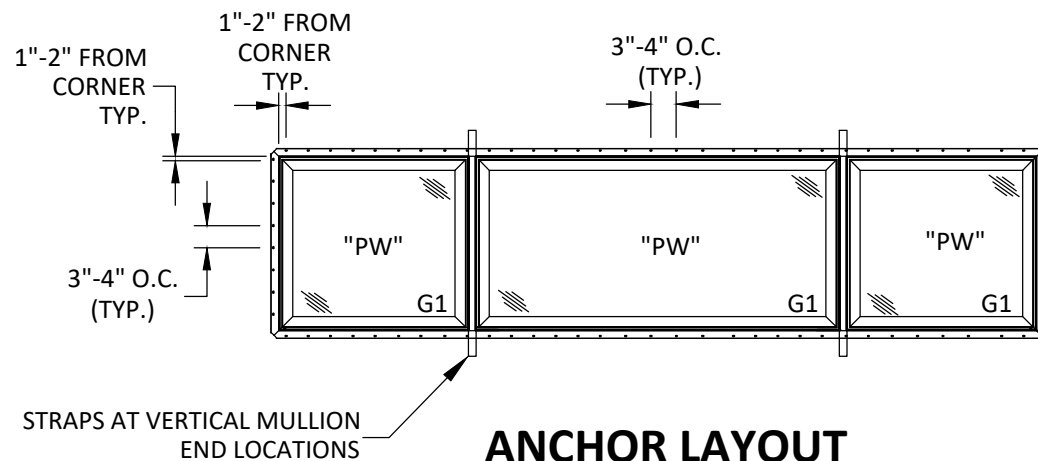
HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
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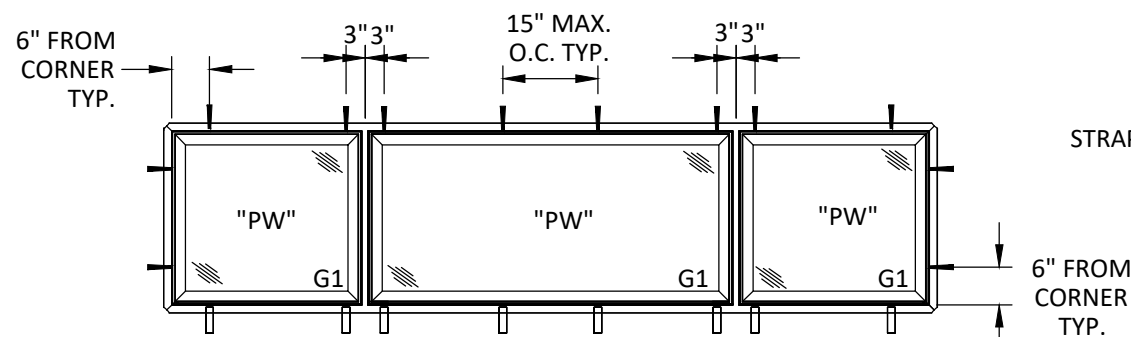
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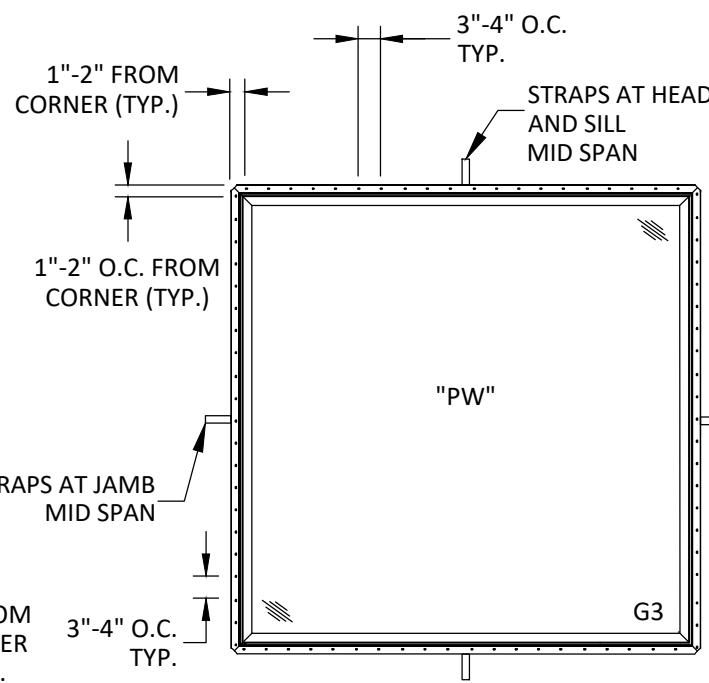
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COMPOSITE CASEMENT TRANSOM**



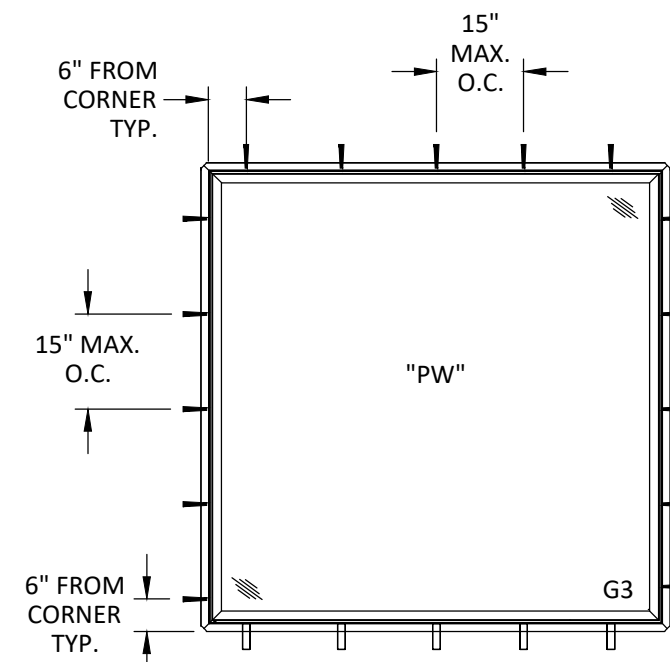
**ANCHOR LAYOUT
NAIL FIN AND STRAP**



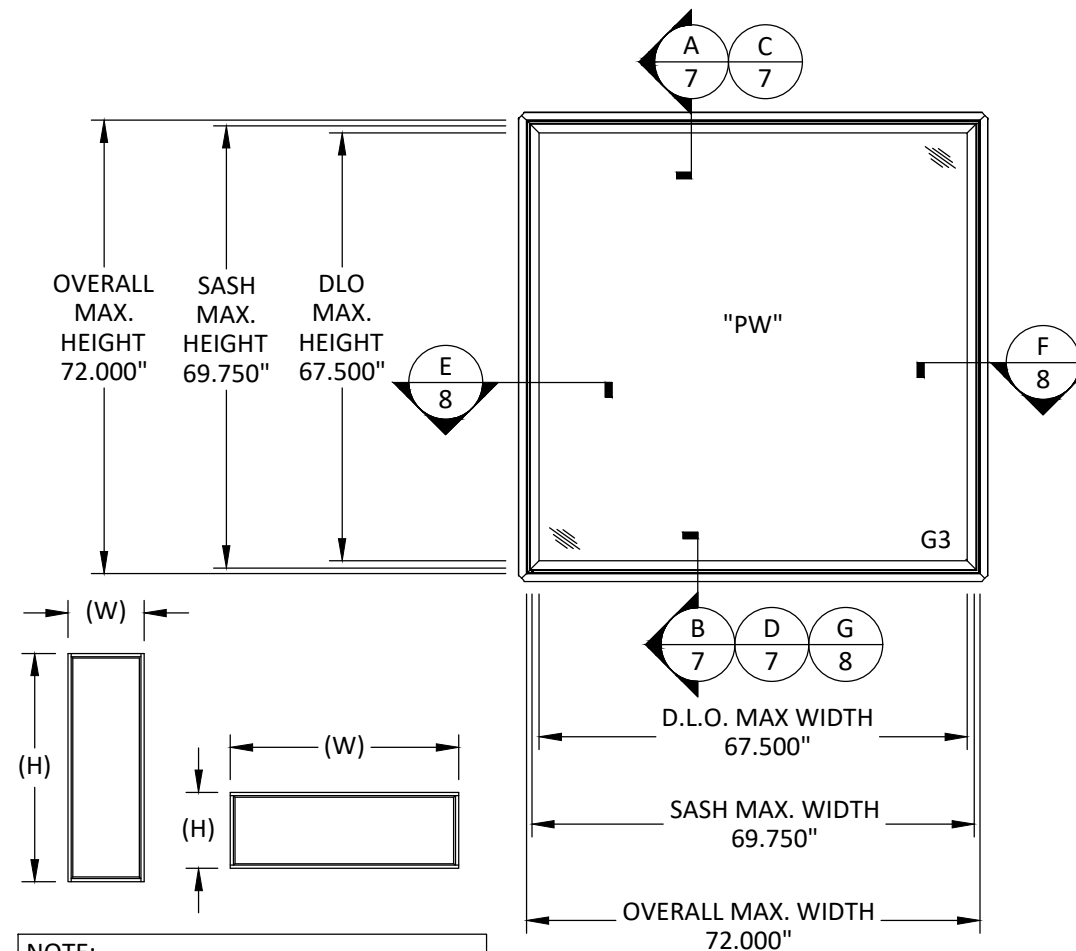
**ANCHOR LAYOUT
THROUGH FRAME + STRAP**



**ANCHOR LAYOUT
NAIL FIN AND STRAP**



**ANCHOR LAYOUT
THROUGH FRAME + STRAP**



**EXTERIOR ELEVATION
PW**

NOTE:
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(H) ARE INTERCHANGEABLE FOR ALL
SIZES SHOWN HEREIN NOT TO EXCEED
MAXIMUM TESTED SQUARE FOOT AREA.



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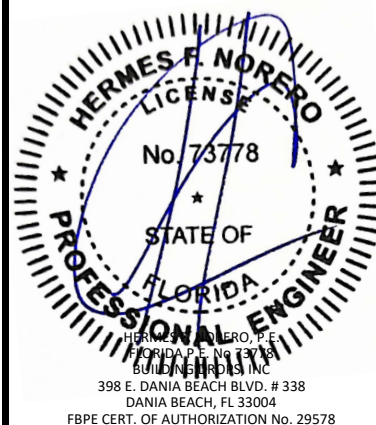
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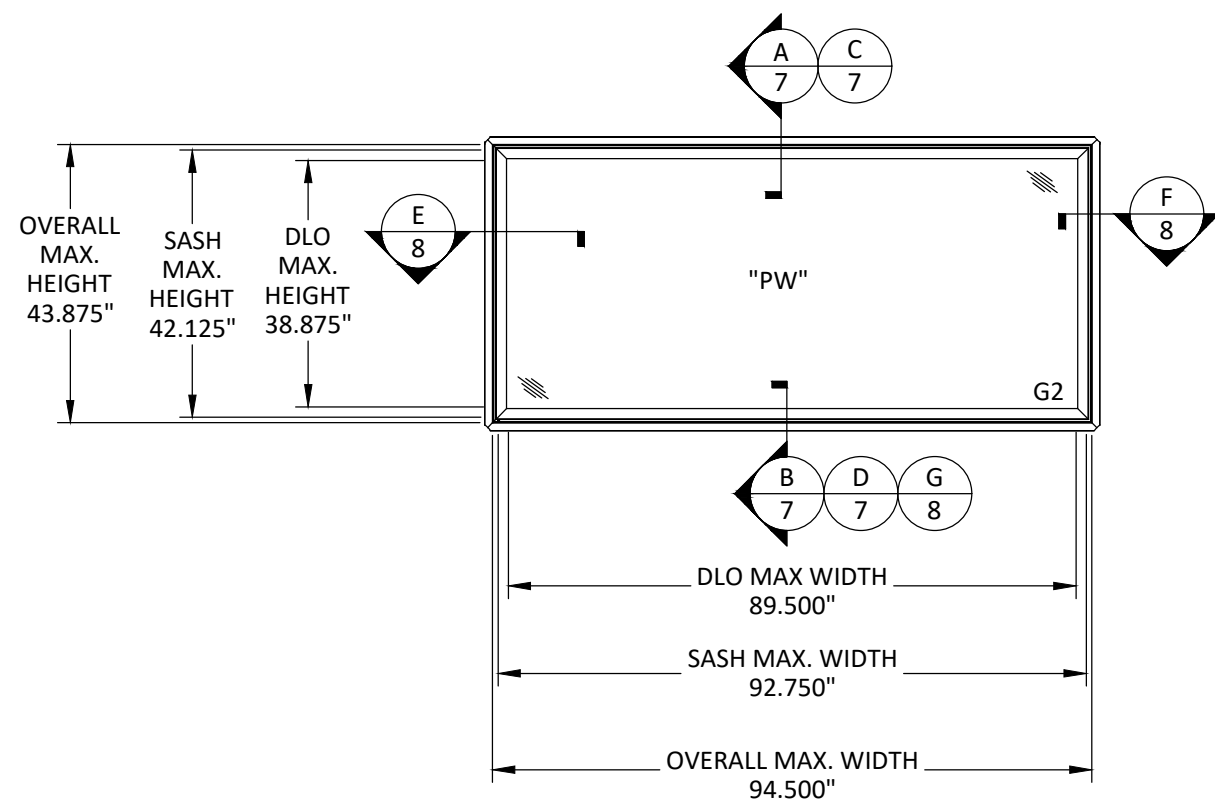


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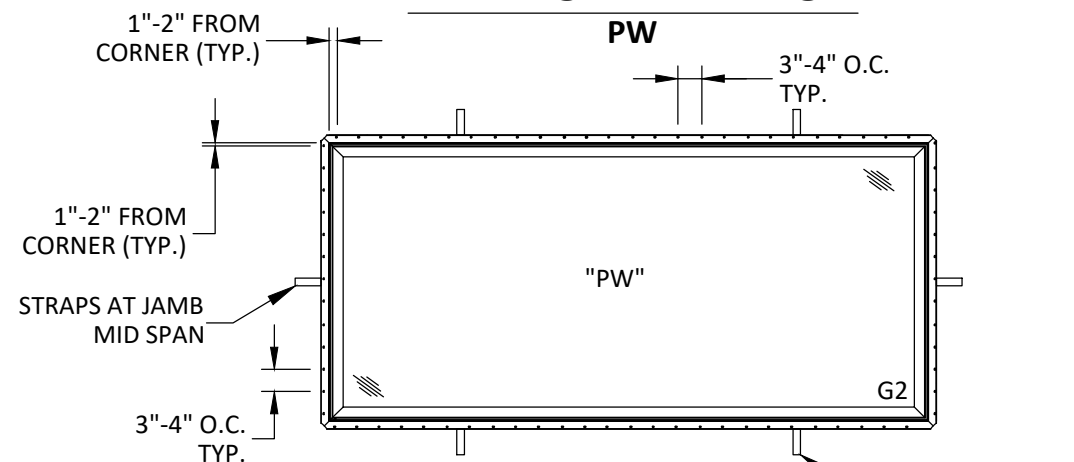
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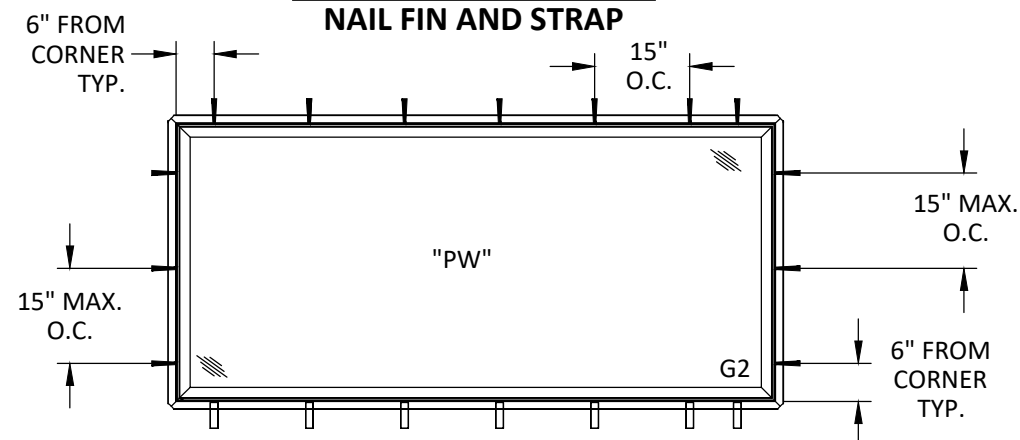


EXTERIOR ELEVATION



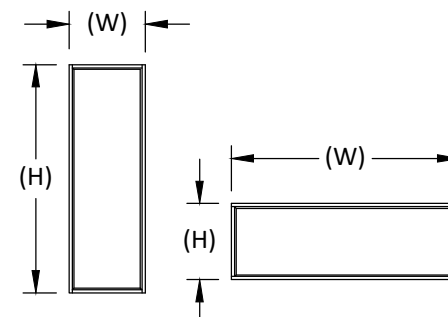
ANCHOR LAYOUT

NAIL FIN AND STRAP

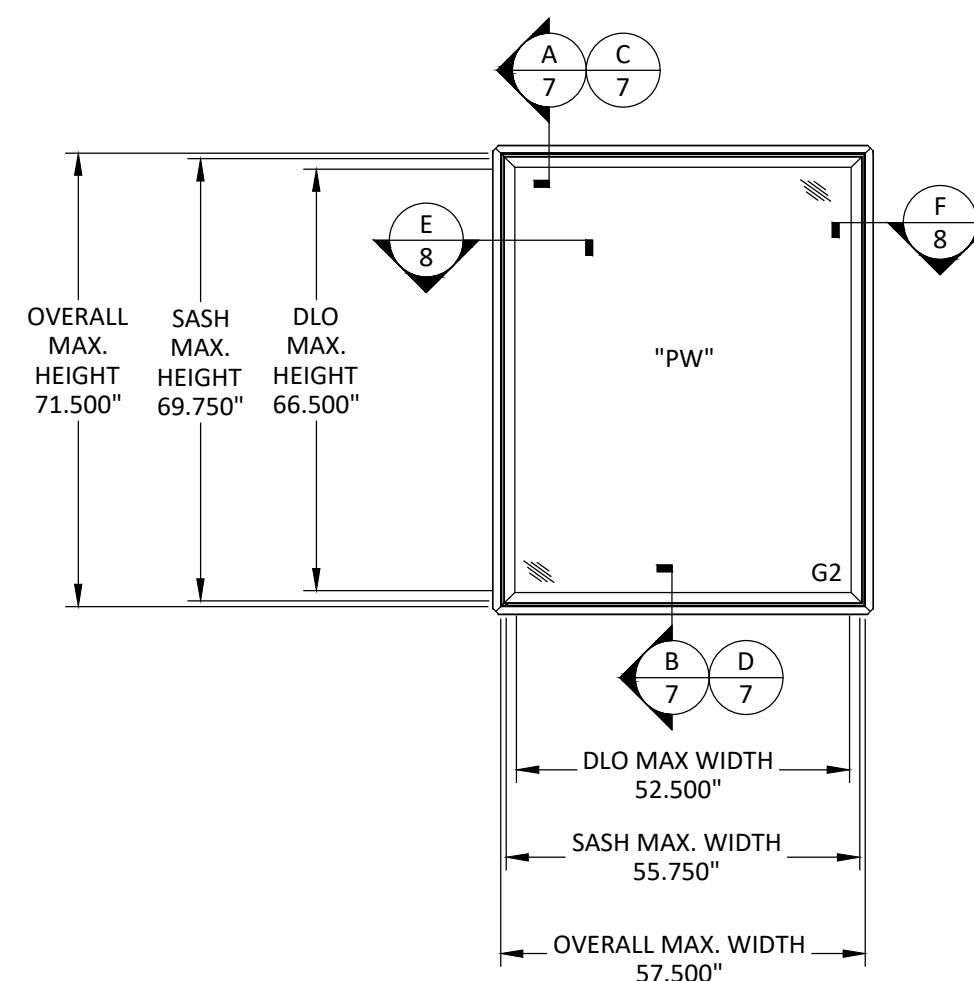


ANCHOR LAYOUT

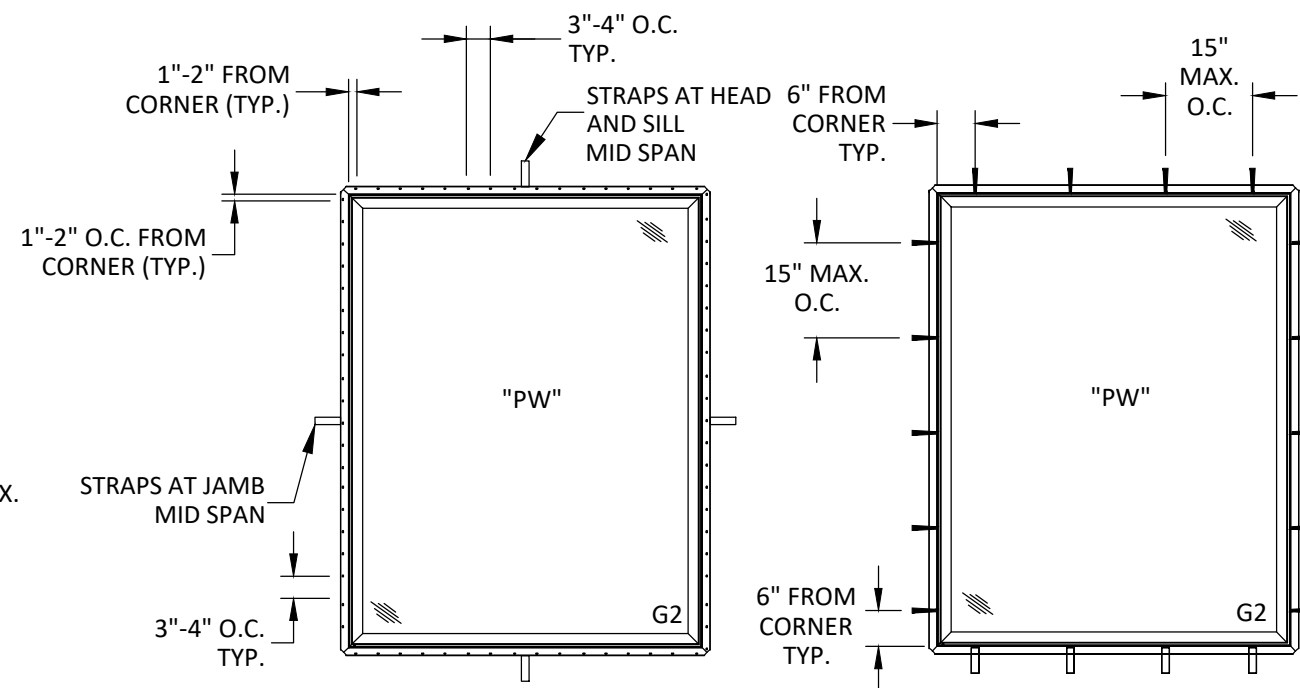
THROUGH FRAME + STRAP



NOTE:
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EXTERIOR ELEVATION



ANCHOR LAYOUT

NAIL FIN AND STRAP

ANCHOR LAYOUT

THROUGH FRAME + STRAP



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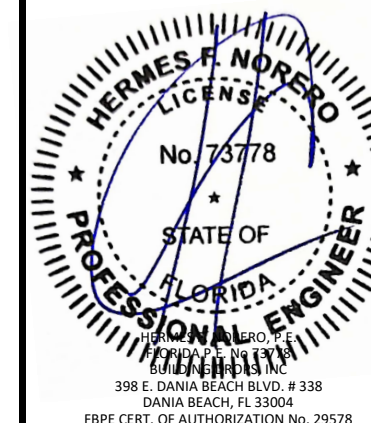
E: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
ELEVATIONS & ANCHOR LAYOUT

PREPARED BY:



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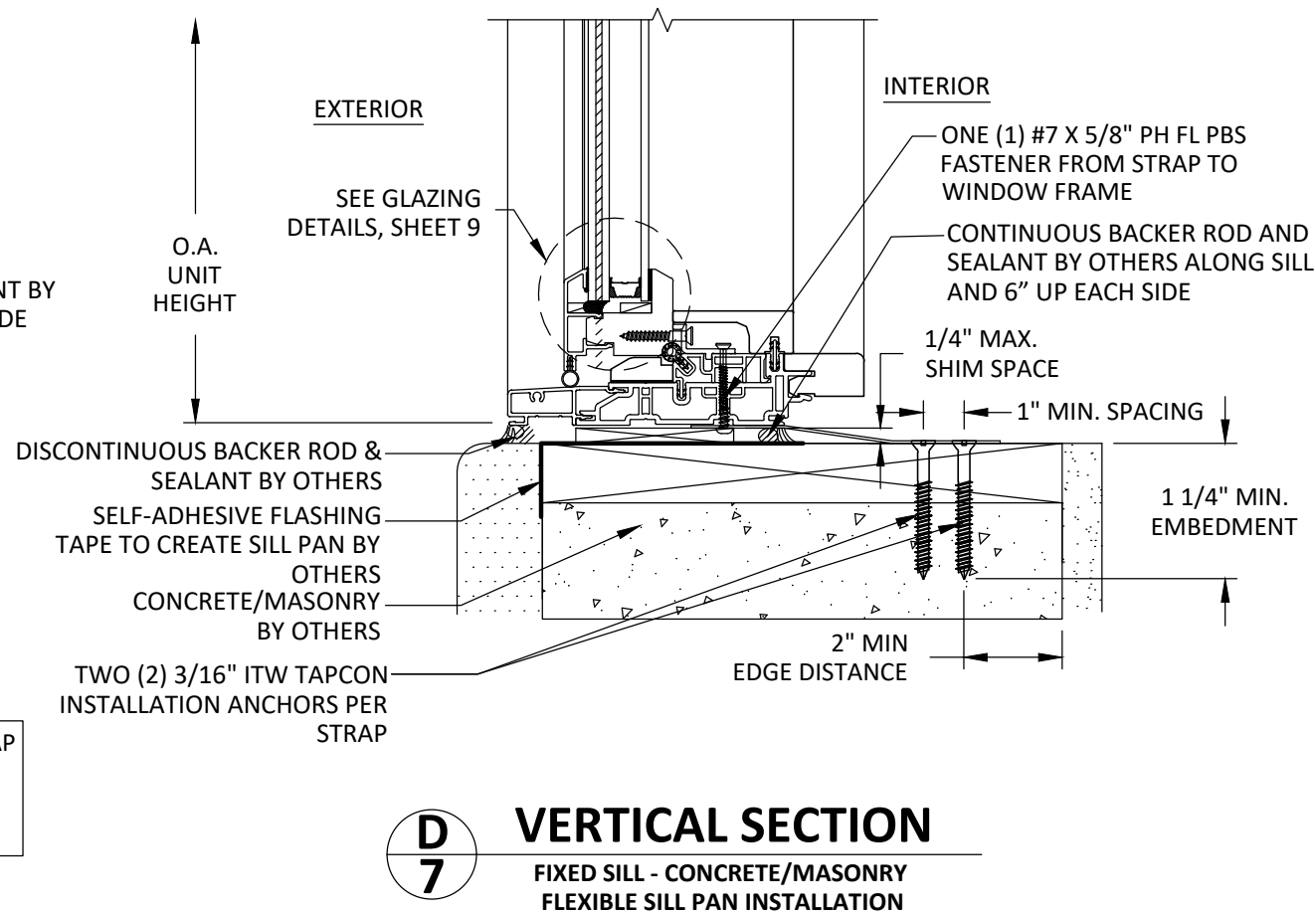
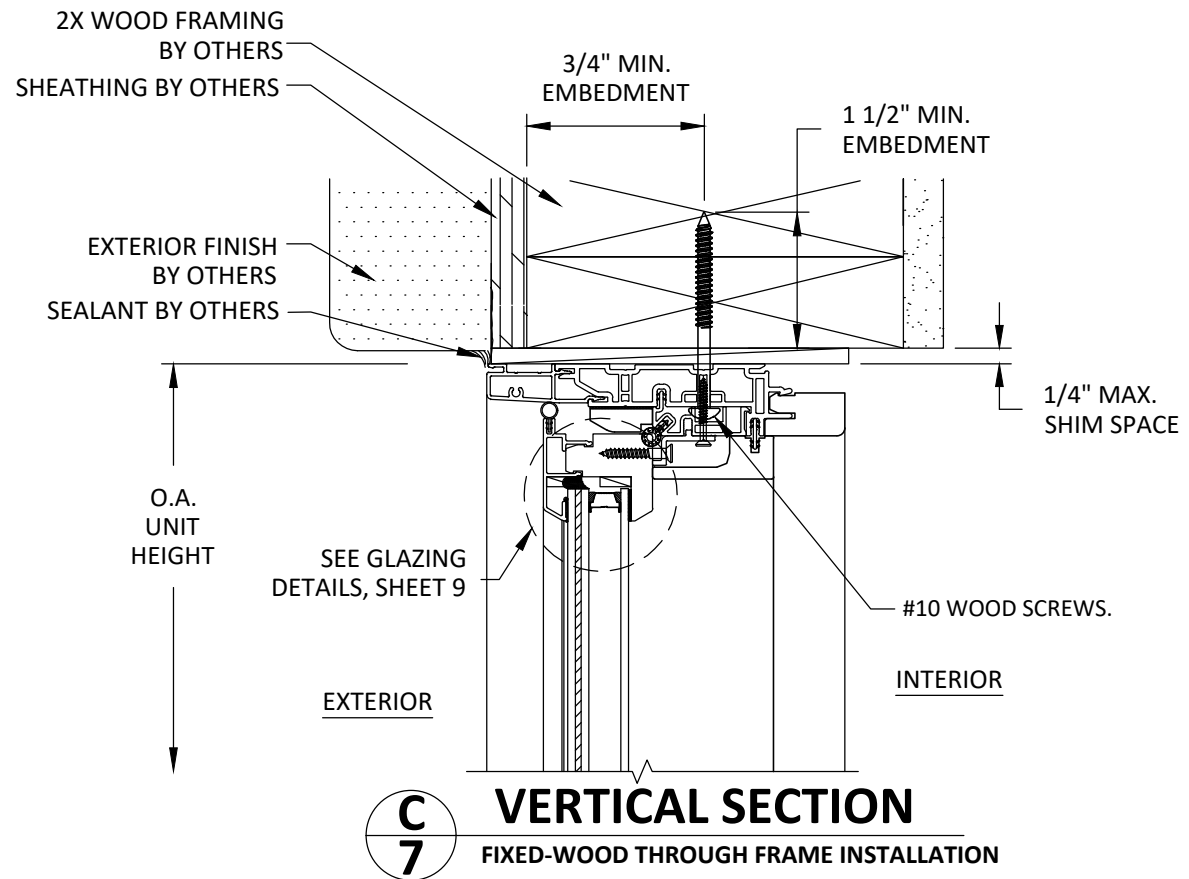
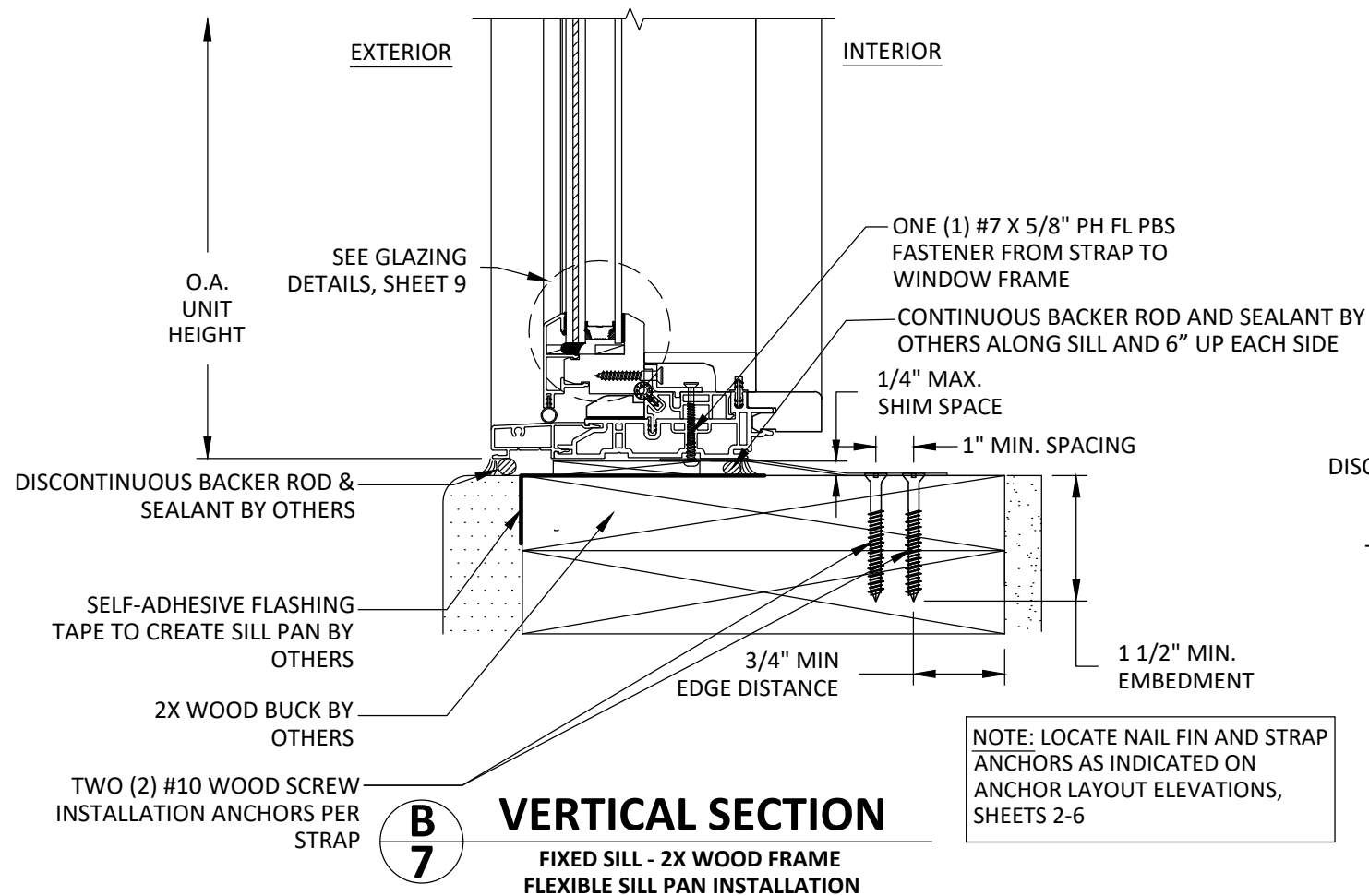
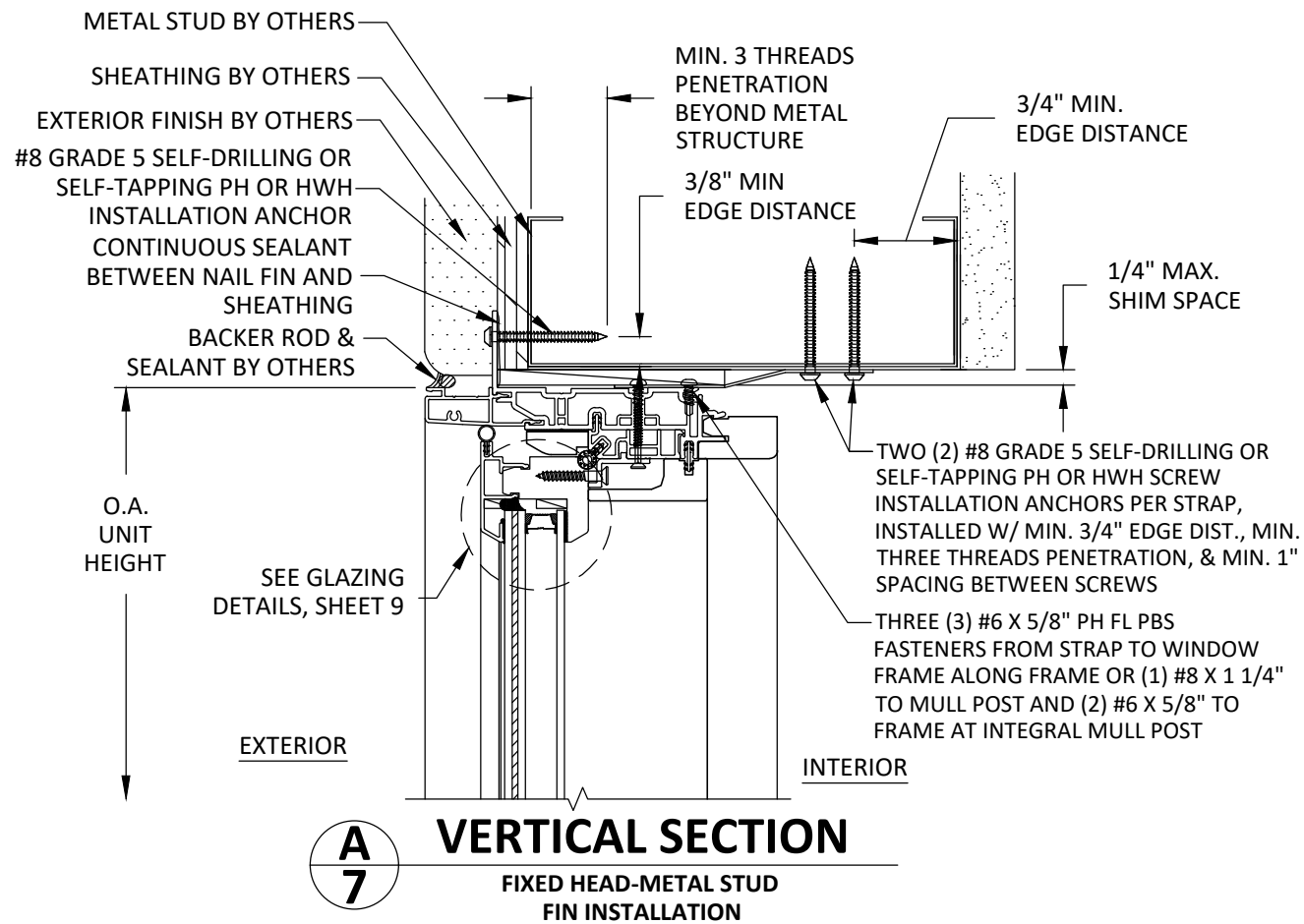
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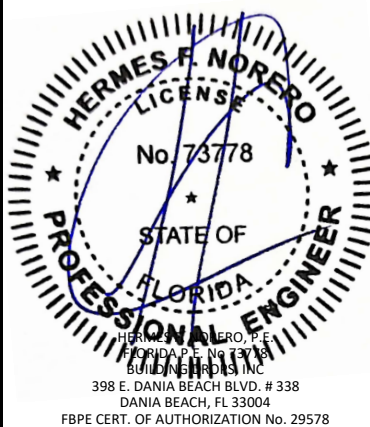
11605 READING ROAD
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PH: (530) 527-9620

TITLE: FEELSAFE H3 2.0 FIXED CASEMENT WINDOWS (WZ3)(IMPACT) VERTICAL SECTIONS

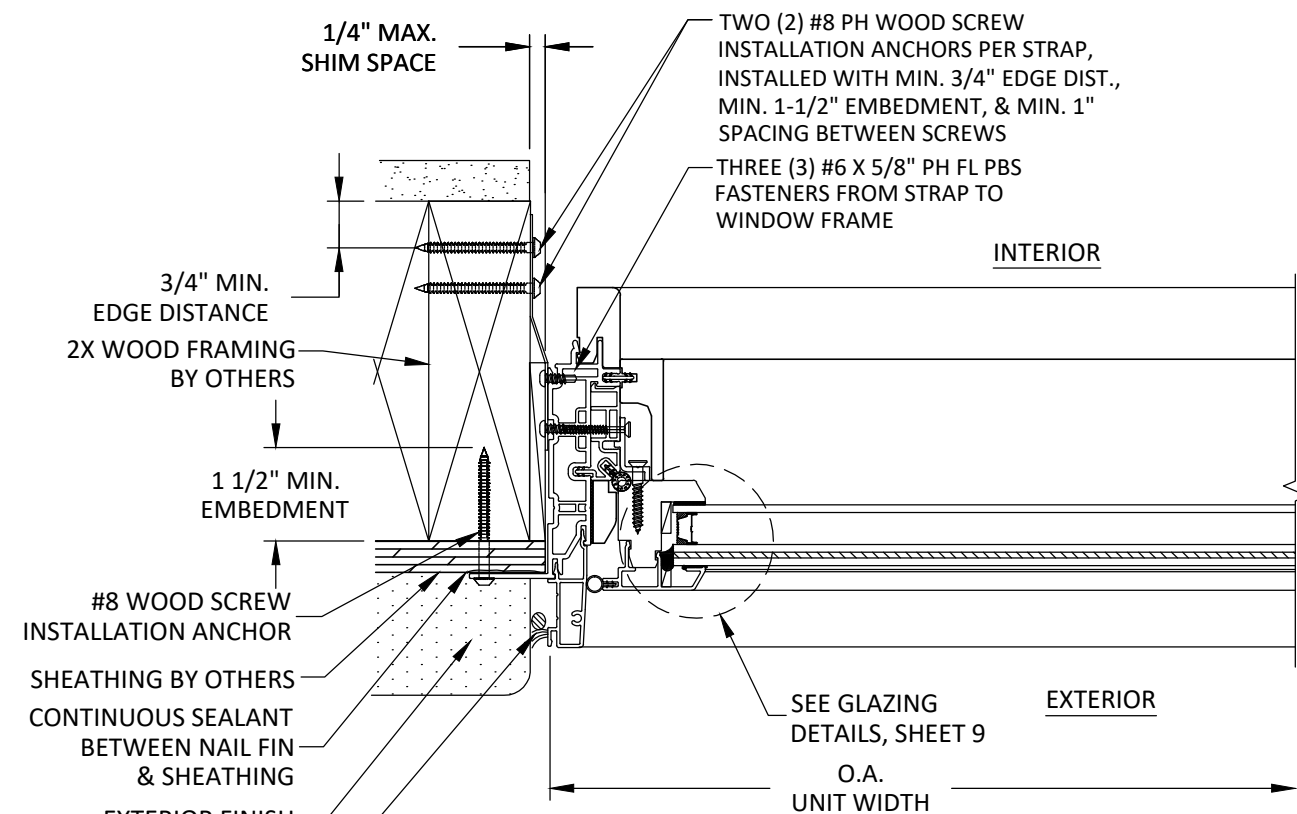
PREPARED BY: BUILDING DROPS, INC.
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DANIA BEACH, FL 33004
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FAX: (954) 744-4738
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CODE CHANGE 2020	YC	10/20
ADDITIONAL DETAILS	LL	02/22
CODE CHANGE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

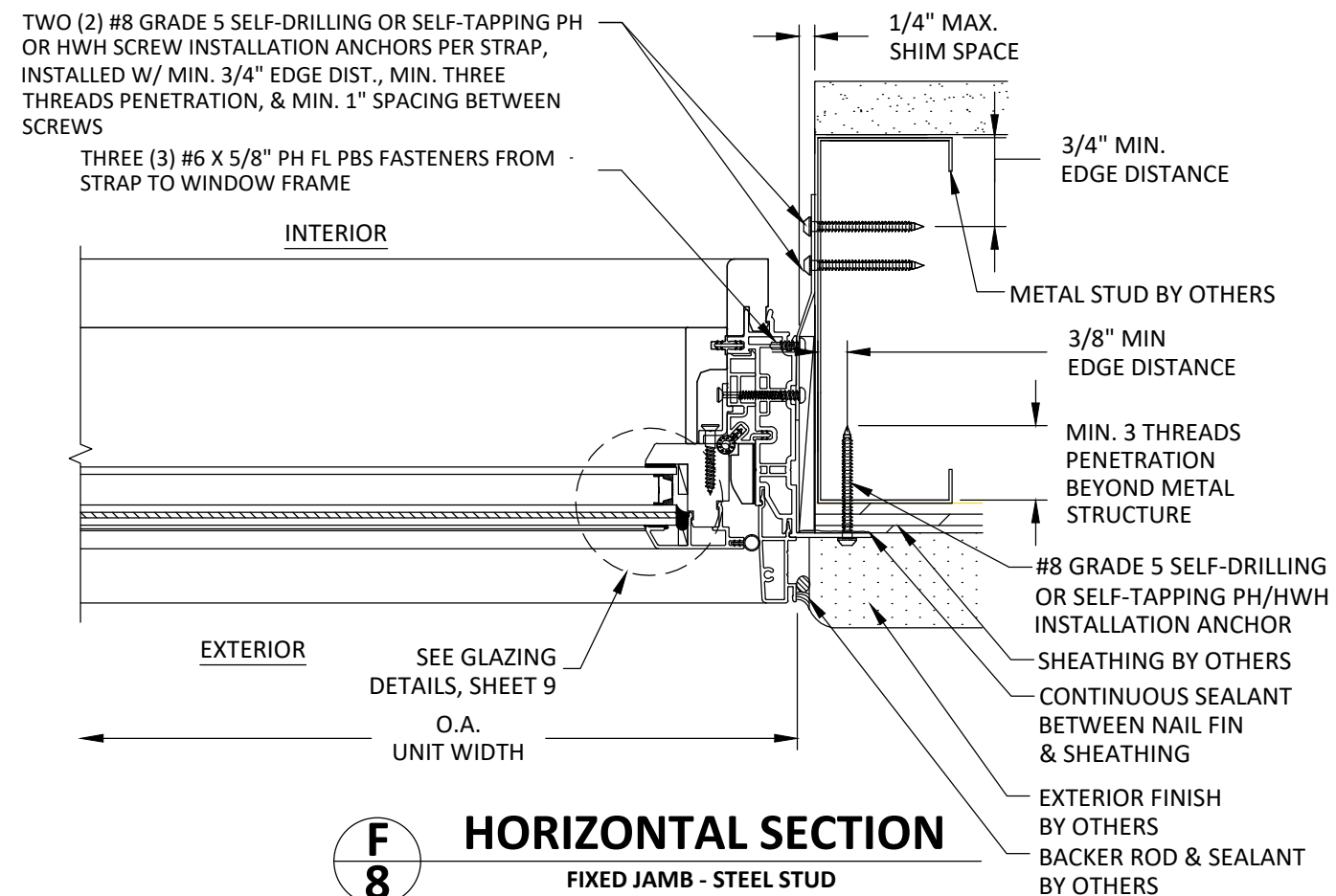
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DATE:	05.22.2020
DWG. BY:	YC
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SCALE:	NTS
DWG. #:	SPW011
SHEET:	7

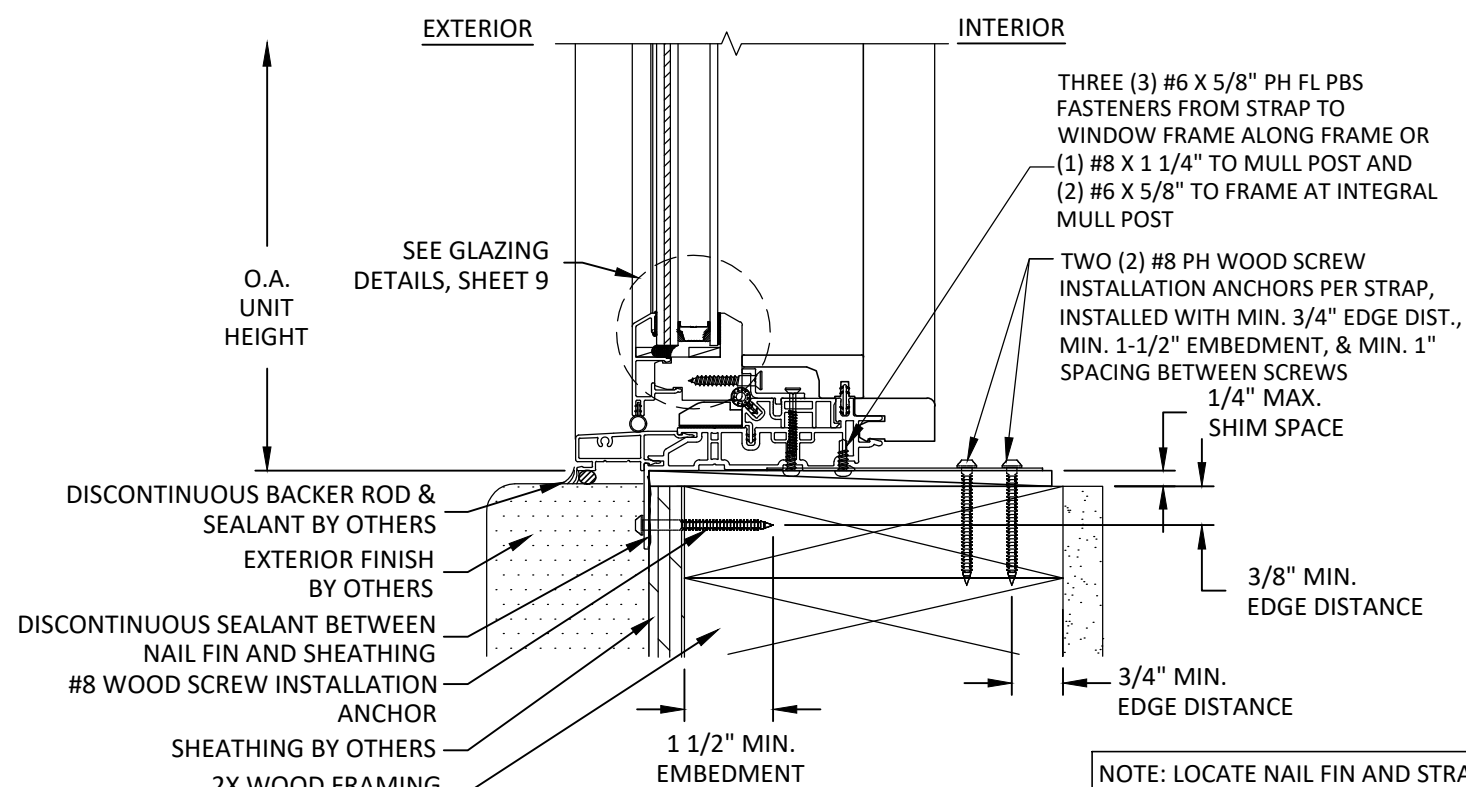


E 8 **HORIZONTAL SECTION** FIXED JAMB - 2X WOOD FRAME FIN + STRAP INSTALLATION



F 8 HORIZONTAL SECTION

FIXED JAMB - STEEL STUD FIN + STRAP INSTALLATION



G 8

VERTICAL SECTION

**FIXED SILL - 2X WOOD FRAME
FIN + STRAP INSTALLATION**

NOTE: LOCATE NAIL FIN AND STRAP ANCHORS AS INDICATED ON ANCHOR LAYOUT ELEVATIONS, SHEETS 2-6



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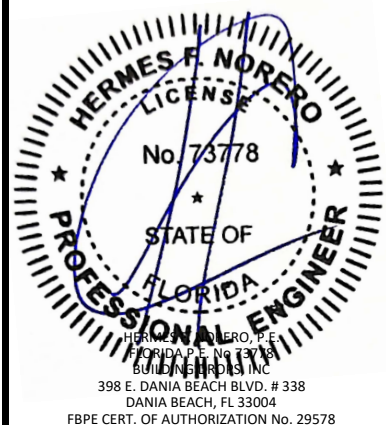
TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)

PREPARED BY:
BUILDING DROPS, INC.



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ADDITIONAL DETAILS	LL	02/22
CODE CHANGE 2023	MG	08/23

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FL #:

FL23011

DATE: 05.22.2020

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

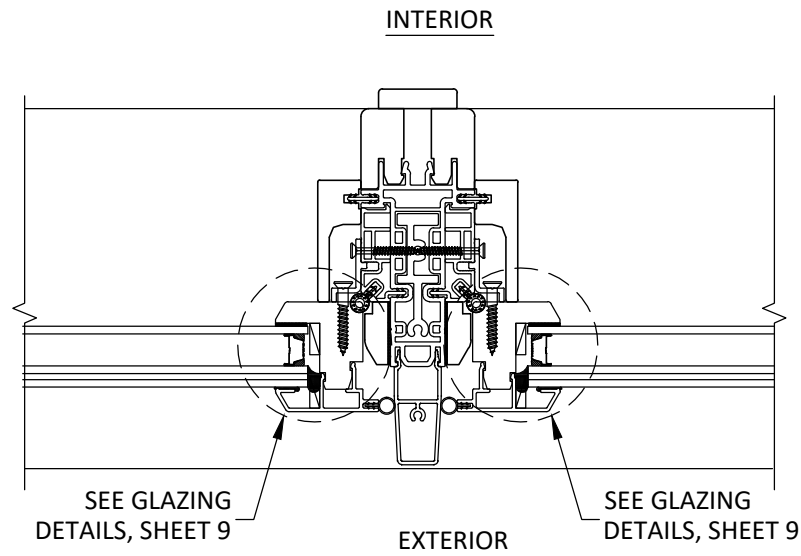
DWG. #: SPW011

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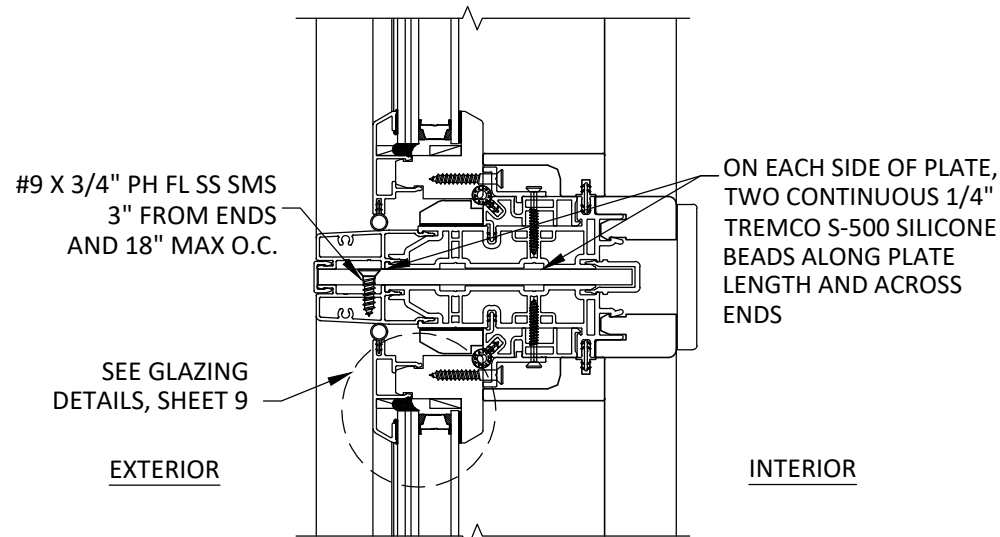
8

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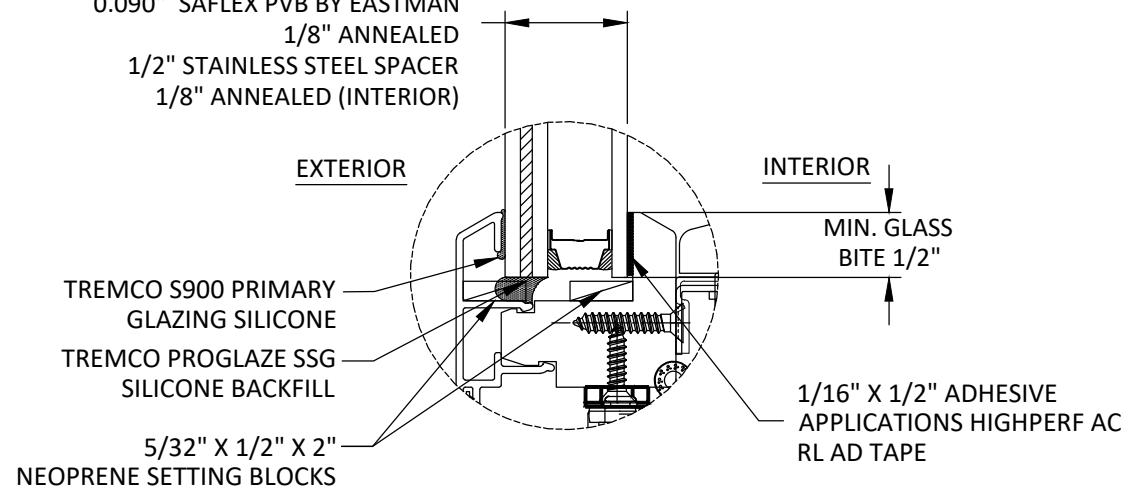


**H
9** **HORIZONTAL SECTION**
FIXED CASEMENT UNIT

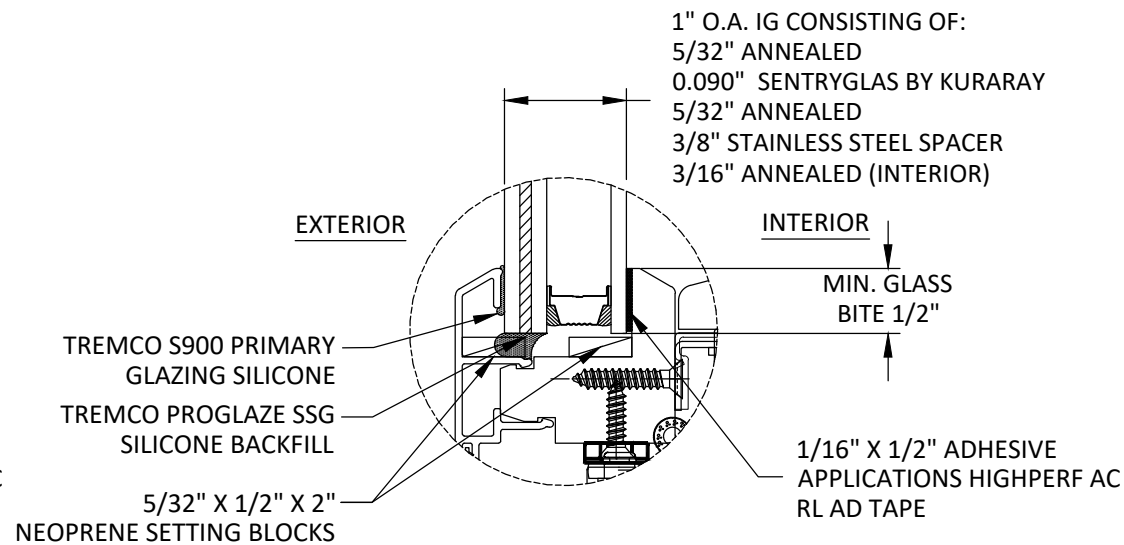


**I
9** **VERTICAL SECTION**
FIXED CASEMENT & FIXED CASEMENT UNIT

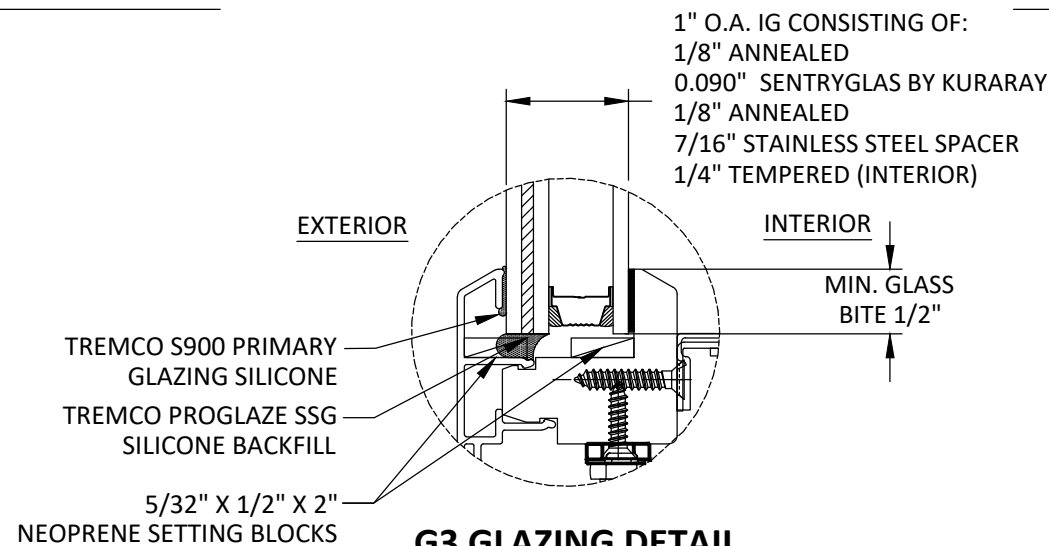
1" O.A. IG CONSISTING OF:
1/8" ANNEALED
0.090" SAFLEX PVB BY EASTMAN
1/8" ANNEALED
1/2" STAINLESS STEEL SPACER
1/8" ANNEALED (INTERIOR)



G1 GLAZING DETAIL



G2 GLAZING DETAIL



G3 GLAZING DETAIL

NOTES:

- 1) GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER FBC.
- 2) SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- 3) SETTING BLOCK TO BE LOCATED AT 1/4" SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24
- 4) TEMPERED GLASS SHALL BE USE ON THE EXTERIOR LITE FOR APPLICATION ABOVE 30 FT.



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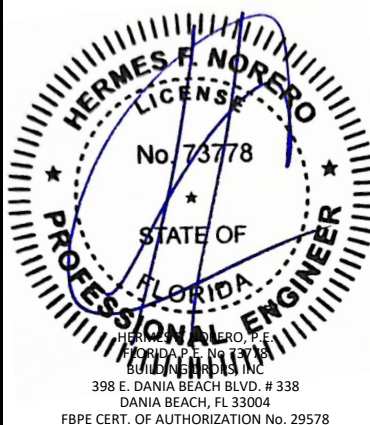
TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
HORIZONTAL/VERTICAL SECTIONS
& GLAZING DETAILS

PREPARED BY:
BUILDING DROPS, INC.
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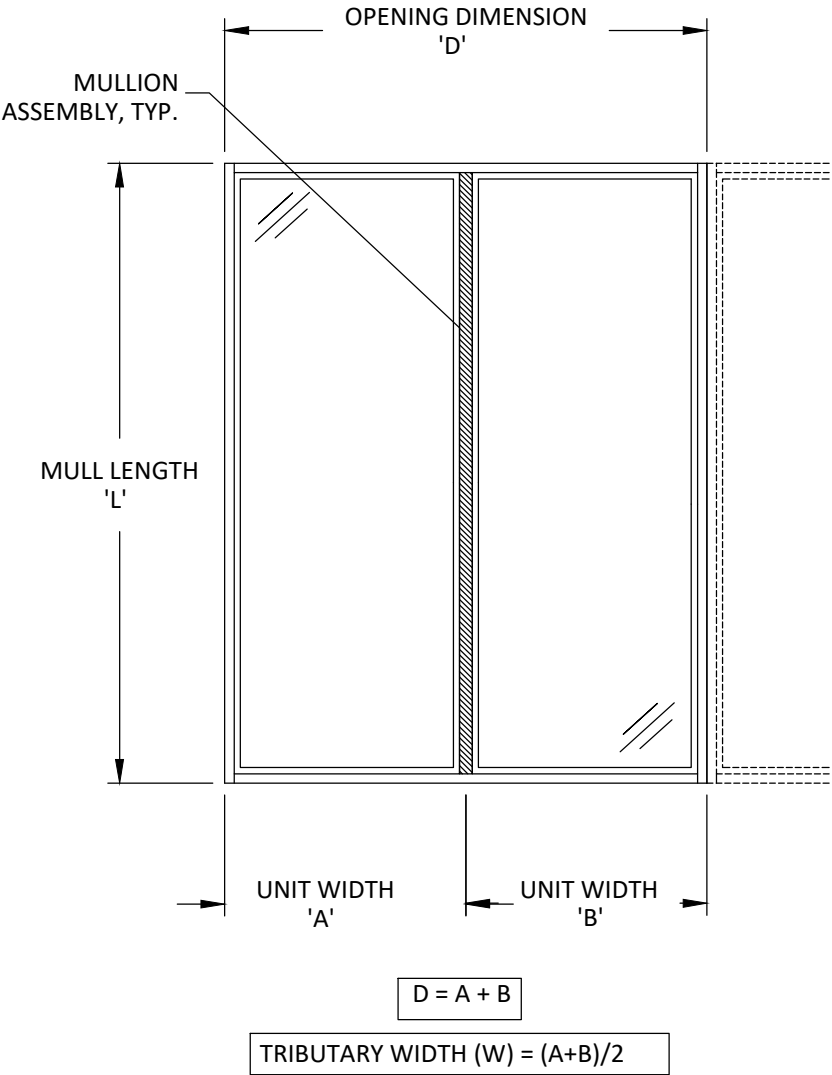
FL #:	FL23011
DATE:	05.22.2020
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SPW011
SHEET:	9

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FIXED CASEMENT TO FIXED CASEMENT (1/4" X 5" PLATE MULLION)
ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

MAXIMUM DESIGN PRESSURE CAPACITY CHART ONE WAY CASEMENT TO CASEMENT 1/4" X 5" ALUMINUM PLATE MULLION			
TRIBUTARY WIDTH (IN.)	LENGTH (IN.)	DESIGN PRESSURE (PSF)	
		POS (+)	NEG (-)
24	60	50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
24	66	50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
44		50.0	60.0
24	72	50.0	60.0
30		50.0	60.0
36		50.0	60.0
40		50.0	60.0
24	78	50.0	60.0
30		50.0	60.0
36		50.0	60.0
38		50.0	60.0
24	83.5	50.0	60.0
30		50.0	60.0
35.625		50.0	60.0
24	90	50.0	60.0
30		44.8	53.7



NOTES:

- 'ONE-WAY' MULLIONS REFER TO VERTICAL SINGLE SPAN 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 SHEETS 7-9.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.

FIXED CASEMENT - FIXED CASEMENT INTEGRAL MULLION
ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

MAXIMUM DESIGN PRESSURE CAPACITY CHART ONE WAY CASEMENT TO FIXED CASEMENT INTEGRAL MULLION			
TRIBUTARY WIDTH (IN.)	LENGTH (IN.)	DESIGN PRESSURE (PSF)	
		POS (+)	NEG (-)
24	54	50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
52	60	50.0	60.0
24		50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
46	66	50.0	60.0
24		50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
24	71.5	50.0	60.0
30		50.0	60.0
36		50.0	60.0
39.83		50.0	60.0
24	78	50.0	60.0
30		47.8	57.3
32		45.2	54.2
24	84	46.5	55.8
28		40.4	48.4



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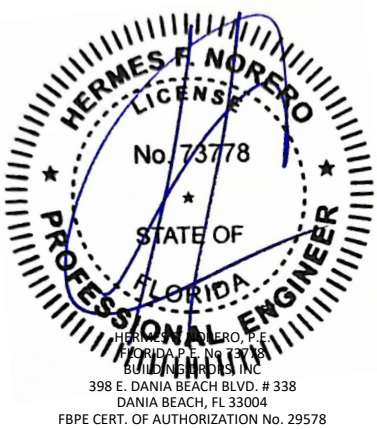
TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
ONE-WAY DESIGN PRESSURE TABLES

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SCALE:	NTS
DWG. #:	SPW011
SHEET:	10

**SIERRA
PACIFIC**
WINDOWS

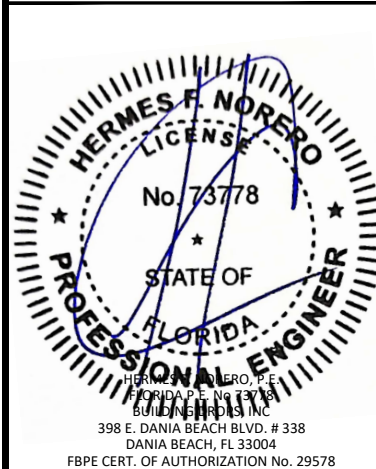
TITLE: FEELSAFE H3 2.0 FIXED CASEMENT WINDOWS (WZ3)(IMPACT)
TWO-WAY DESIGN PRESSURE TABLES

PREPARED BY:


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The diagram illustrates the dimensions of a window unit. At the top, a box contains the formula $D = A + B$. Below it, another box contains the formula $\text{TRIBUTARY WIDTH (W)} = (A+B)/2$. The diagram shows a window unit with a mullion assembly, typical, indicated by a line pointing to the vertical divider. The dimensions are labeled as follows:

- MULLION ASSEMBLY, TYP.**: Points to the vertical divider.
- MULL LENGTH 'L'**: The horizontal length of the mullion assembly.
- UNIT HEIGHT 'B'**: The height of the upper unit.
- UNIT HEIGHT 'A'**: The height of the lower unit.
- OPENING DIMENSION 'D'**: The total height of the opening, which is the sum of A and B .



1. 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
2. THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAILS ON SHEETS 7-9.
3. DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT UNDER SEPARATE APPROVAL.
4. MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.