

2/5/2021 2:36 PM

s:\projects\shwinco architectural products\fbc-21-0105.1 - fbc submittal - revision (10) fl14590.1 series 9070 fixed window hvhz fl14590.2 series 9070 fixed window - w24\dwg\swd055.dwg

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
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 BASED ON QUANTITIES IN DP CHARTS NOT TO EXCEED 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. **THROUGH FRAME INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. **THROUGH FRAME INSTALLATION:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16" DIAMETER ITW TAPCONS, ELCO ULTRACONS, ELCO CRETE-FLEX OR HILTI KWIK-CON II OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4" MINIMUM EMBEDMENT.
7. **THROUGH FRAME INSTALLATION :** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #10 GR. 5 SELF TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
8. **NAIL FIN:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
9. **NAIL FIN:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #10 GR. 5 SELF TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
10. **CLIP INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
11. **CLIP INSTALLATION:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16" DIAMETER ITW TAPCONS, ELCO ULTRACONS, ELCO CRETE-FLEX OR HILTI KWIK-CON II OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4" MINIMUM EMBEDMENT.
12. **CLIP INSTALLATION :** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #10 GR. 5 SELF TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
13. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
14. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
15. 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.
16. 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.

SHWINCO ARCHITECTURAL

PRODUCTS, LLC

SERIES 9070 FIXED WINDOW

(HVHZ) (IMPACT)

17. 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 18 GA. WALL THICKNESS.
F. ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/8" (0.125").

GENERAL NOTES:

1. 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
 - AAMA/WDMA/CSA 101/I.S.2/A440-11/17
 - ASTM E1886-13a
 - ASTM E1996-17
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY 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.
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 IN NON-HVHZ AREAS.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: PVC
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEETS 7 & 8 FOR GLAZING DETAILS.
8. WATER PROOFING SHALL BE THE RESPONSIBILITY OF THE INSTALLER. FOR BEST PRACTICE, PLEASE REVIEW FMA/AAMA/WDMA INSTALLATION DOCUMENTS.

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SHEET	SECTION DESCRIPTION
1	INSTALLATION AND GENERAL NOTES
2	ELEVATION AND ANCHOR LAYOUTS
3	VERTICAL SECTIONS (THROUGH FRAME INSTALLATION)
4	VERTICAL SECTIONS(NAIL FIN INSTALLATION)
5	HORIZONTAL SECTION (THROUGH FRAME INSTALLATION)
6	HORIZONTAL SECTIONS(NAIL FIN INSTALLATION)
7	GLAZING DETAILS & PRESSURE TABLE
8	GLAZING DETAILS & BILL OF MATERIALS

DESIGN PRESSURE	MISSILE IMPACT RATED
SEE SHEET 7	LARGE & SMALL MISSILE IMPACT RATED



171 JET SERVICES WAY
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TITLE: SERIES 9070 FIXED WINDOW (HVHZ) (IMPACT) INSTALLATION AND GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

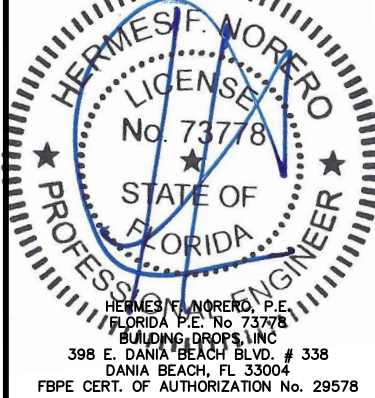
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
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REMARKS	BY	DATE

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Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2021.02.15 10:31:11 -05'00'



FL #: FL14590

DATE: 01.26.21

DWG. BY: MS
CHK. BY: HFN

SCALE: NTS

DWG. #: SWD055

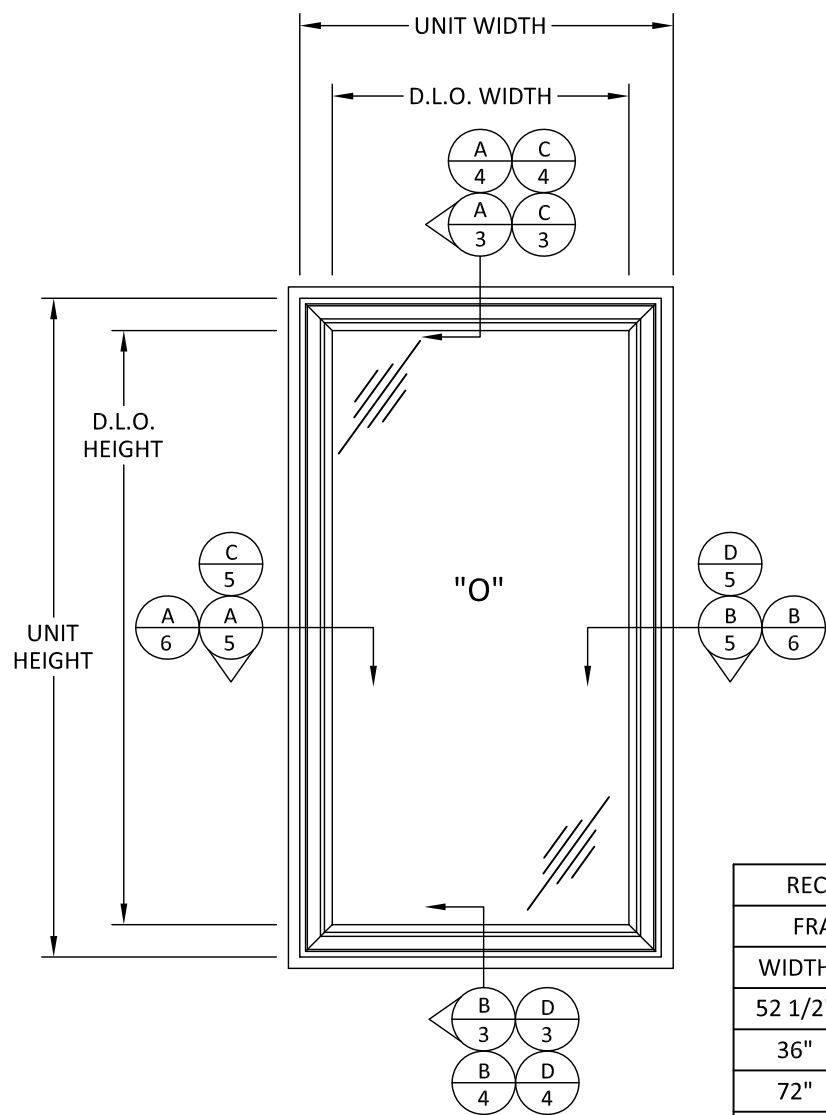
SHEET:

1

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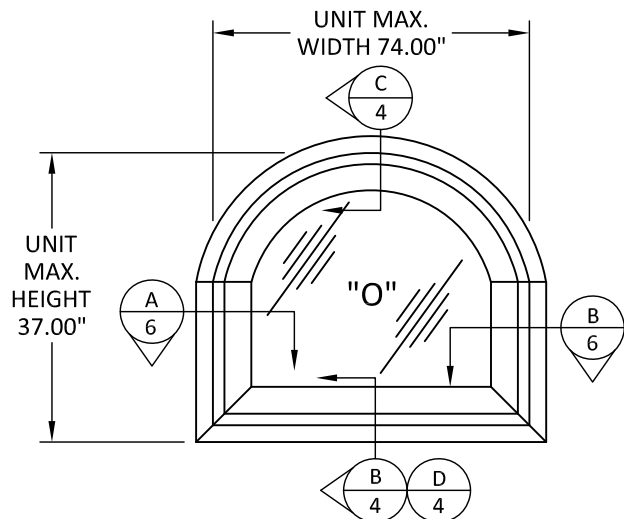
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ELEVATION

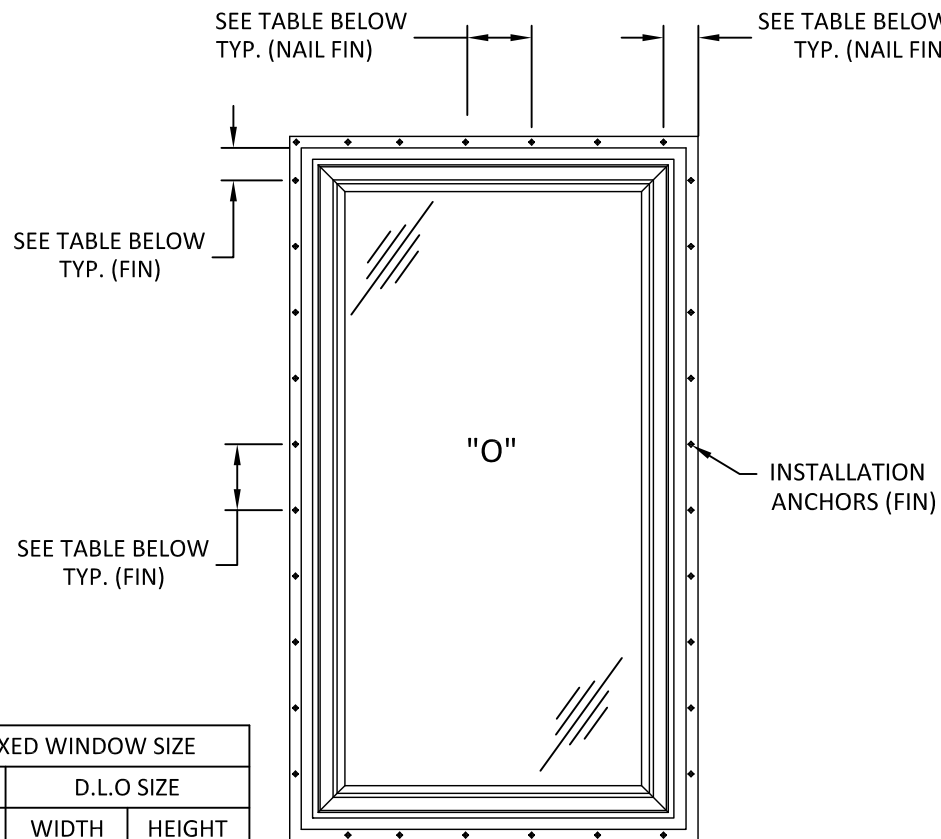
RECTANGULAR FIXED WINDOW SIZE			
FRAME SIZE		D.L.O. SIZE	
WIDTH	HEIGHT	WIDTH	HEIGHT
52 1/2"	83 1/2"	48 1/2"	79 1/2"
36"	72"	33 1/8"	68 1/8"
72"	72"	68 1/8"	68 1/8"
54"	72"	50"	68"

*SEE SHEET 7 FOR ADDITIONAL RECTANGULAR FRAME SIZE OPTION AND DESIGN PRESSURE.

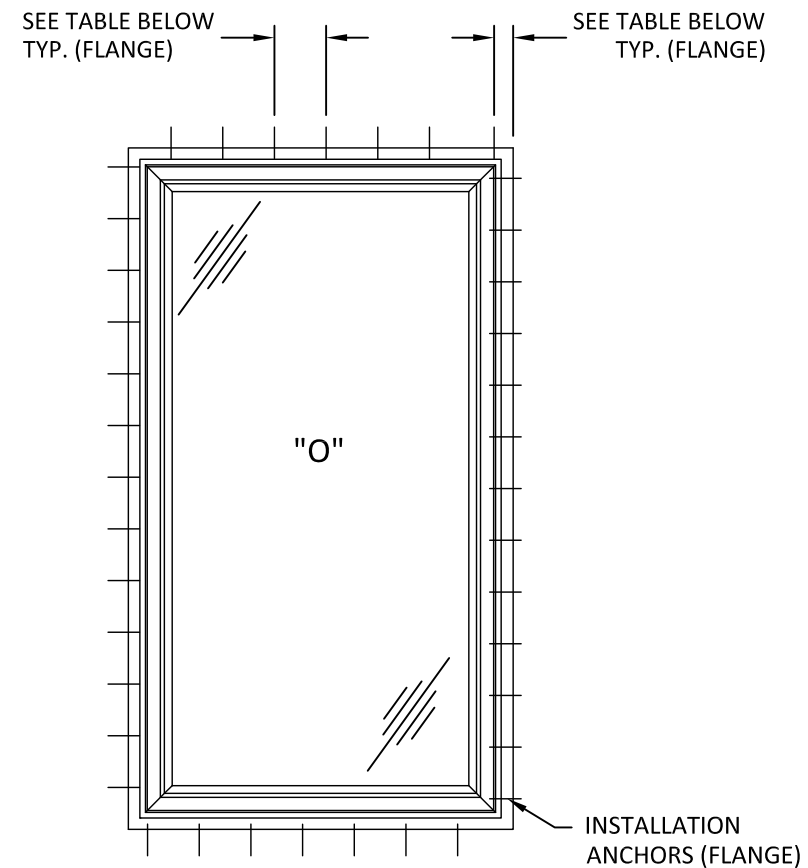


ELEVATION

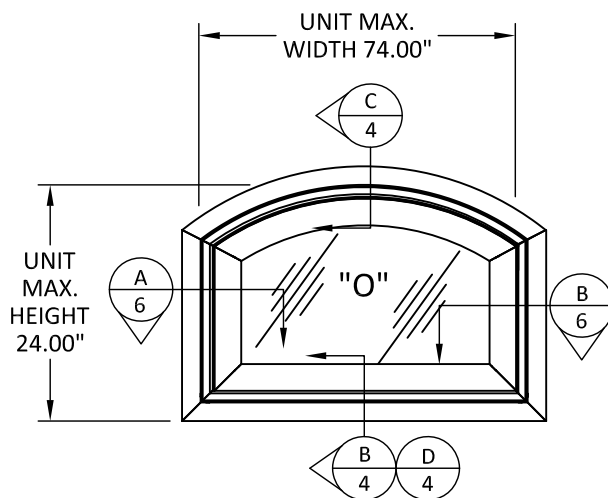
ARCH
+105/-105 PSF



ANCHOR LAYOUT
NAIL FIN INSTALLATION



ANCHOR LAYOUT
FLANGE INSTALLATION



ELEVATION

EYEBROW
+150/-150 PSF

ANCHOR SCHEDULE				
	SIZE	FROM CORNER DIST.	MAX. O.C. (FIN)	MAX. O.C. (THRU FRAME/CLIP INSTALLATION)
FIXED WINDOW	SEE TABLE ON SHEET 2 *	FIN OR THRU FRAME: 3"	HEAD/SILL: 8" JAMB: 8"	HEAD/SILL: 8" JAMB: 8"
ARCH	74" x 37" **	FIN: 3" THRU FRAME: 4"	HEAD/SILL: 8.50" JAMB: 11.75"	HEAD: 11.00" JAMB: 11.00"
EYEBROW	74" x 24" **	FIN: 3" THRU FRAME: 4"	HEAD/SILL: 11.75" JAMB: 11.75"	HEAD: 17.00" JAMB: 17.00"

*MAX. FRAME SIZE FOR FIN INSTALLATION IS 30.5 SQ. FT.

**REQUIRES INSTALLATION THROUGH A COMBINATION OF NAILING FIN & FRAME SIMULTANEOUSLY.

TITLE: SERIES 9070 FIXED WINDOW (HVHZ) (IMPACT) ELEVATION AND ANCHOR LAYOUT

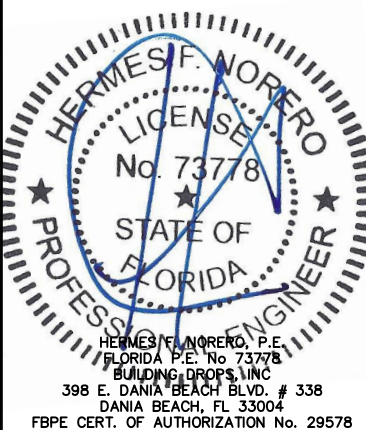
PREPARED BY: BUILDING DROPS, INC.

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REMARKS	BY	DATE

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FL #: **FL14590**

DATE: **01.26.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **SWD055**

SHEET:

2

OF 8

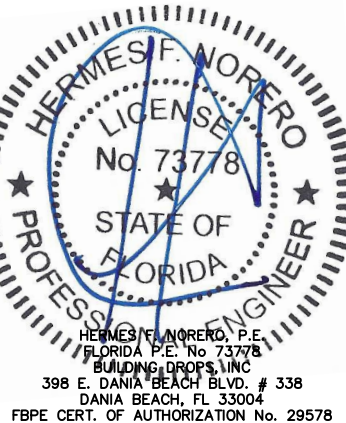
TITLE: SERIES 9070 FIXED WINDOW
(HVHZ) (IMPACT)
VERTICAL SECTION
(FLANGE INSTALLATION)

PREPARED BY:
BUILDING DROPS, INC.
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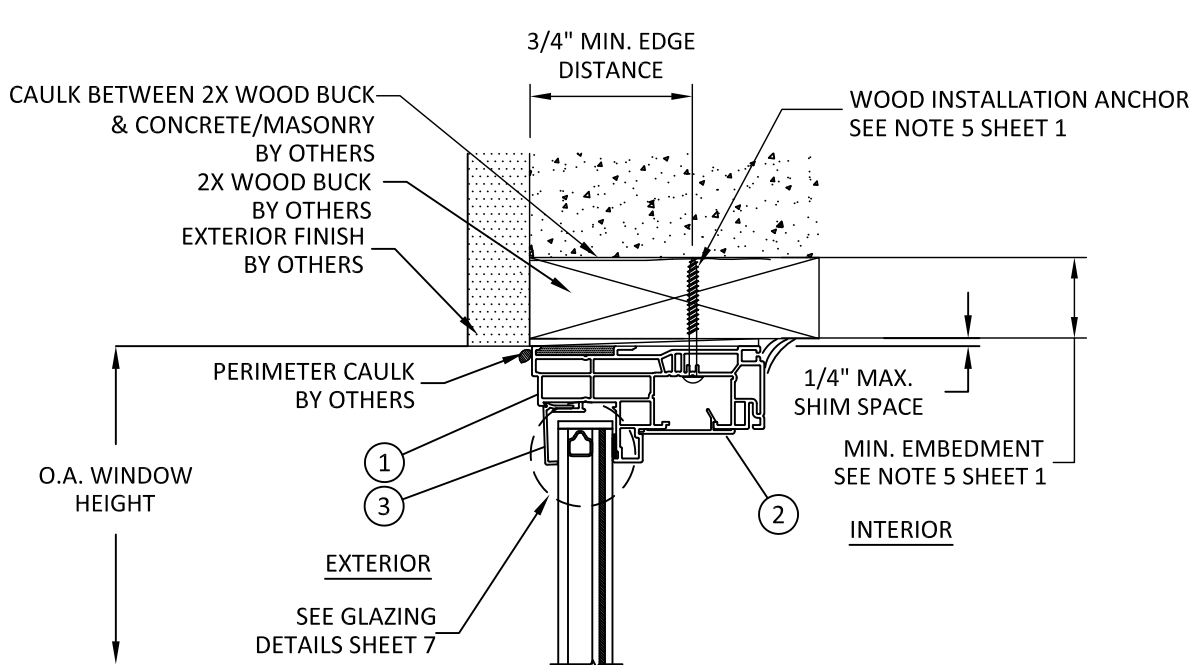


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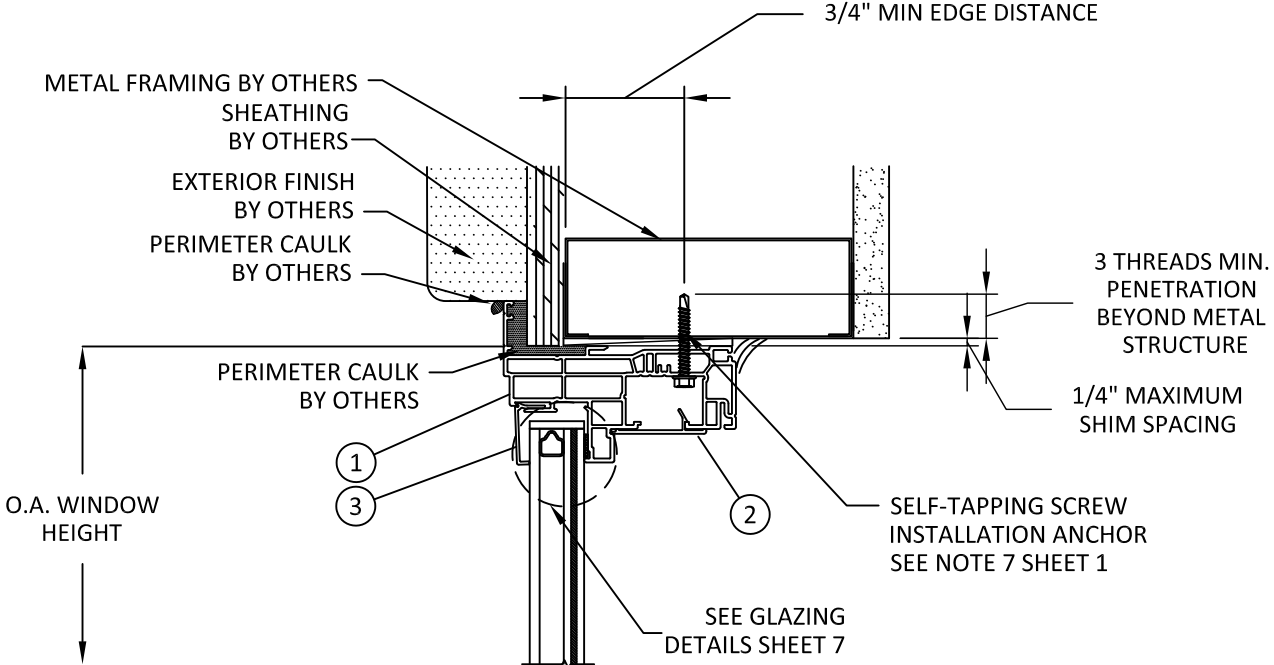
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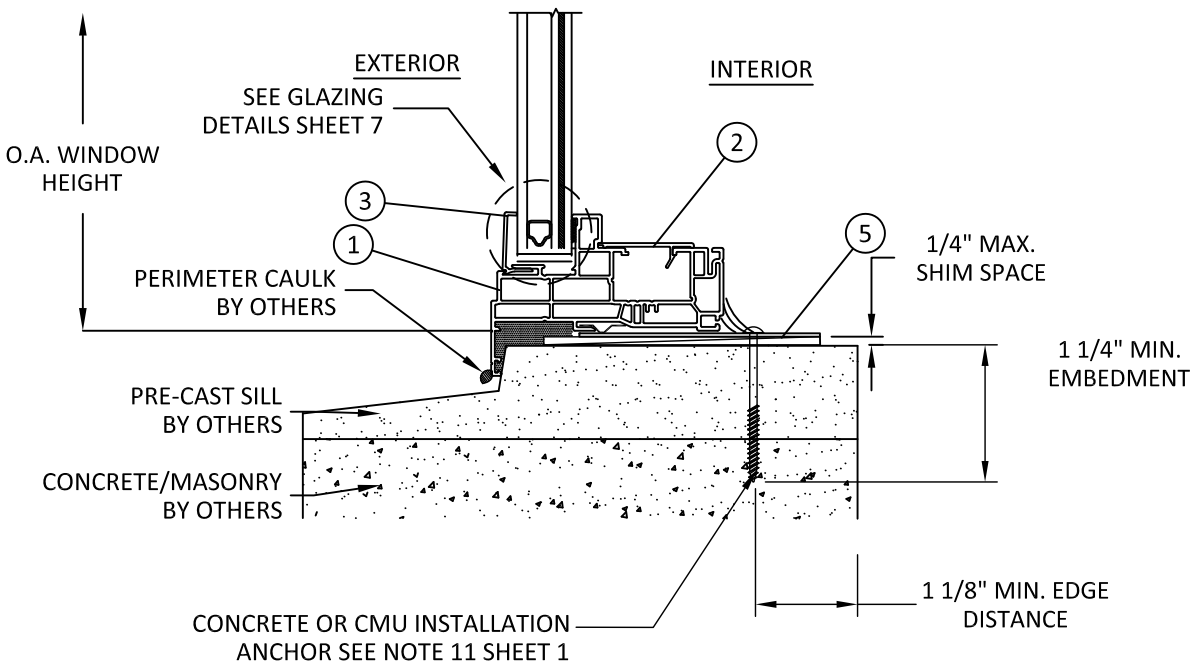
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DWG. #:	SWD055
SHEET:	3



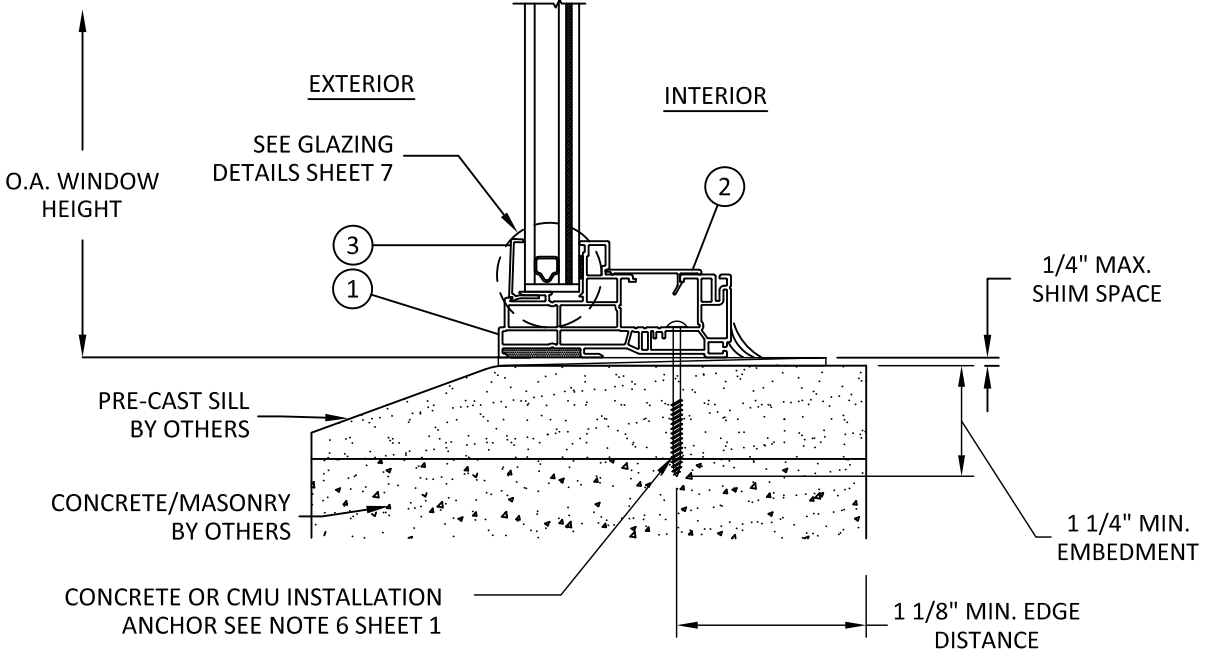
A
3 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
THROUGH FRAME INSTALLATION (REPLACEMENT)



C
3 **VERTICAL SECTION**
HEAD - METAL STUD FRAME
THROUGH FRAME INSTALLATION (FLANGE)



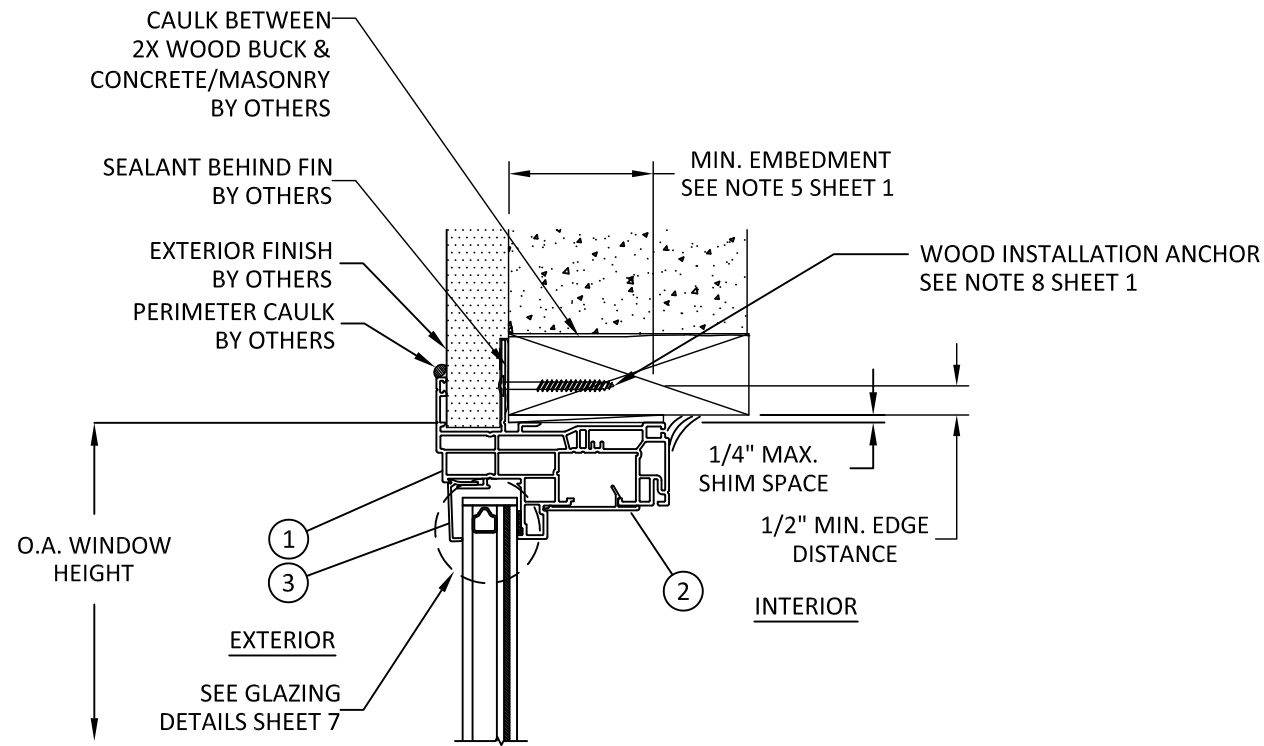
B
3 **VERTICAL SECTION**
PRE-CAST SILL - CONCRETE/MASONRY
CLIP INSTALLATION (FLANGE)



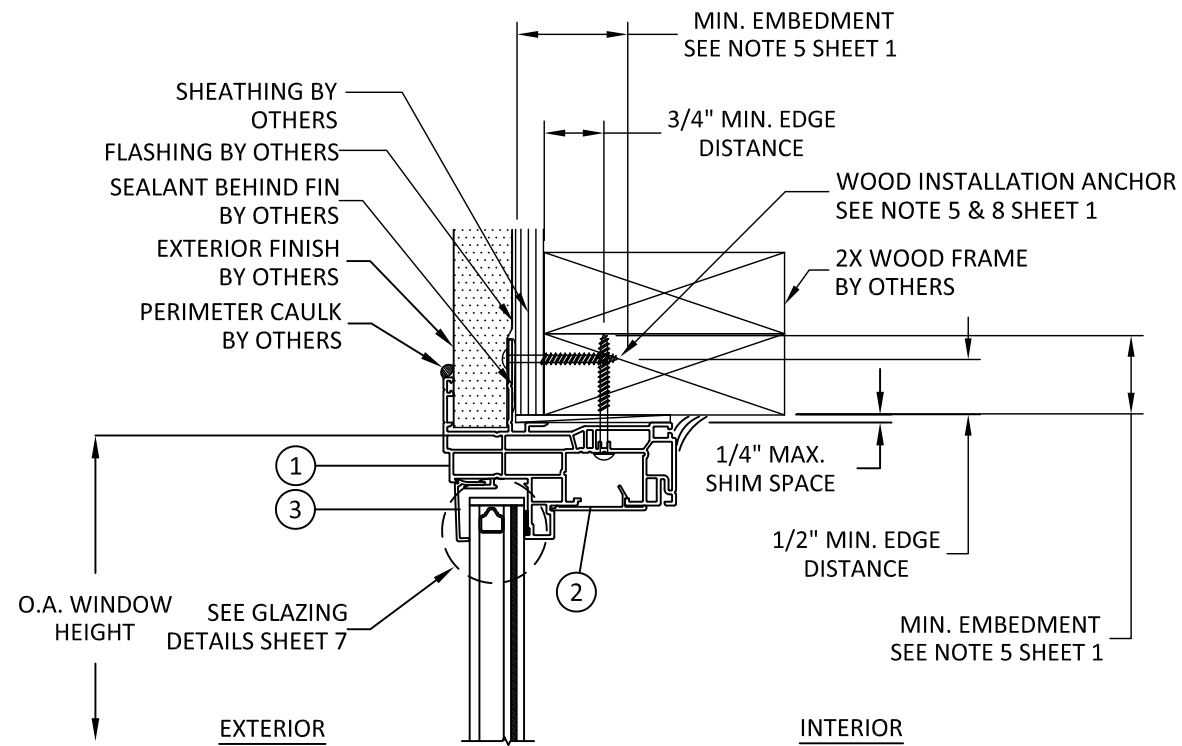
D
3 **VERTICAL SECTION**
PRE-CAST SILL - CONCRETE/MASONRY
THROUGH FRAME INSTALLATION (REPLACEMENT)

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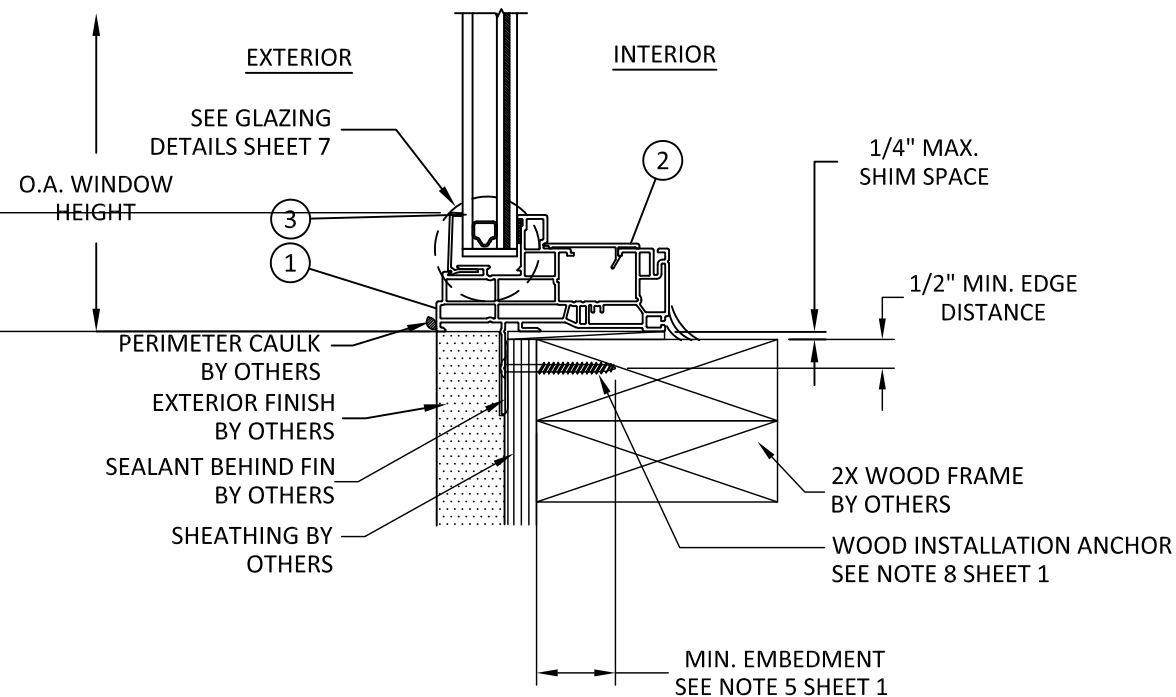
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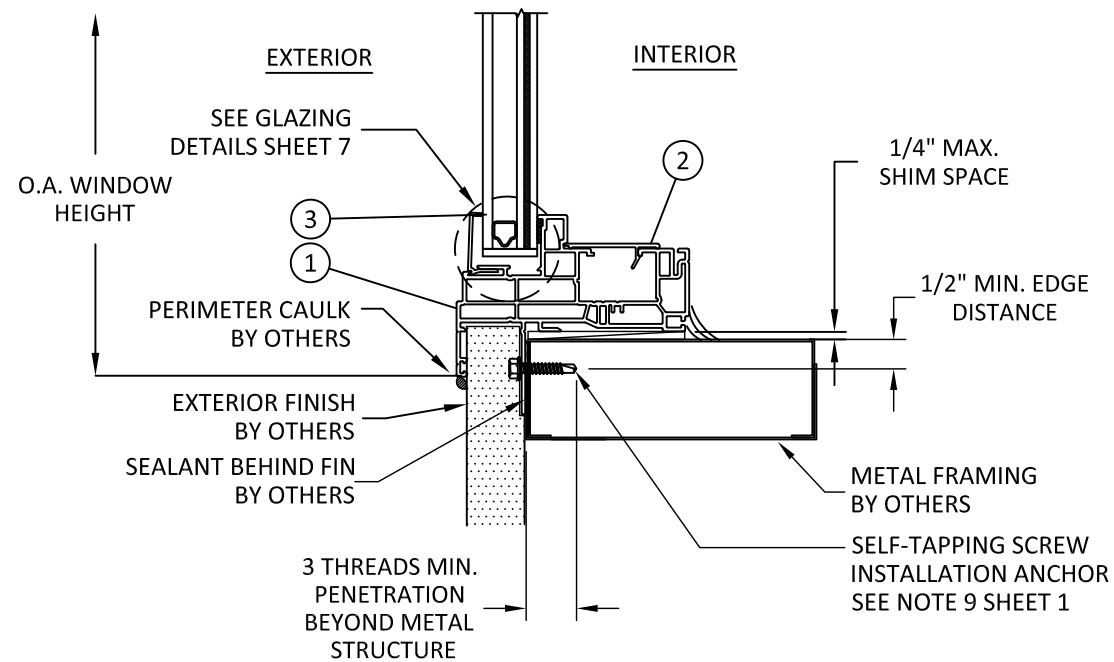
A
4 **VERTICAL SECTION**
HEAD - 2X WOOD FRAME
NAIL FIN INSTALLATION (FLANGE)



C
4 **VERTICAL SECTION**
HEAD - 2X WOOD FRAME
EYEBROW OR ARCH UNITS AT HEAD ONLY



B
4 **VERTICAL SECTION**
SILL - 2X WOOD FRAME
NAIL FIN INSTALLATION (FLANGE)



D
4 **VERTICAL SECTION**
SILL - METAL STUD FRAME
NAIL FIN INSTALLATION (FLANGE)



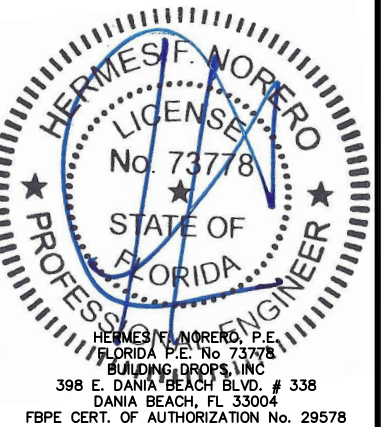
171 JET SERVICES WAY
DOTHAN, AL 36303
PH: 850-271-8900 FX: 850-271-3050

TITLE: SERIES 9070 FIXED WINDOW
(HVHZ) (IMPACT)
VERTICAL SECTION
(NAIL FIN INSTALLATION)

PREPARED BY: BUILDING DROPS, INC.
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REMARKS	BY	DATE

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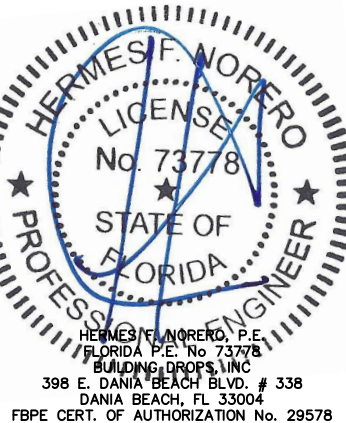
FL #:	FL14590
DATE:	01.26.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SWD055
SHEET:	4

TITLE: SERIES 9070 FIXED WINDOW
(HVHZ) (IMPACT)
HORIZONTAL SECTION
(FLANGE INSTALLATION)

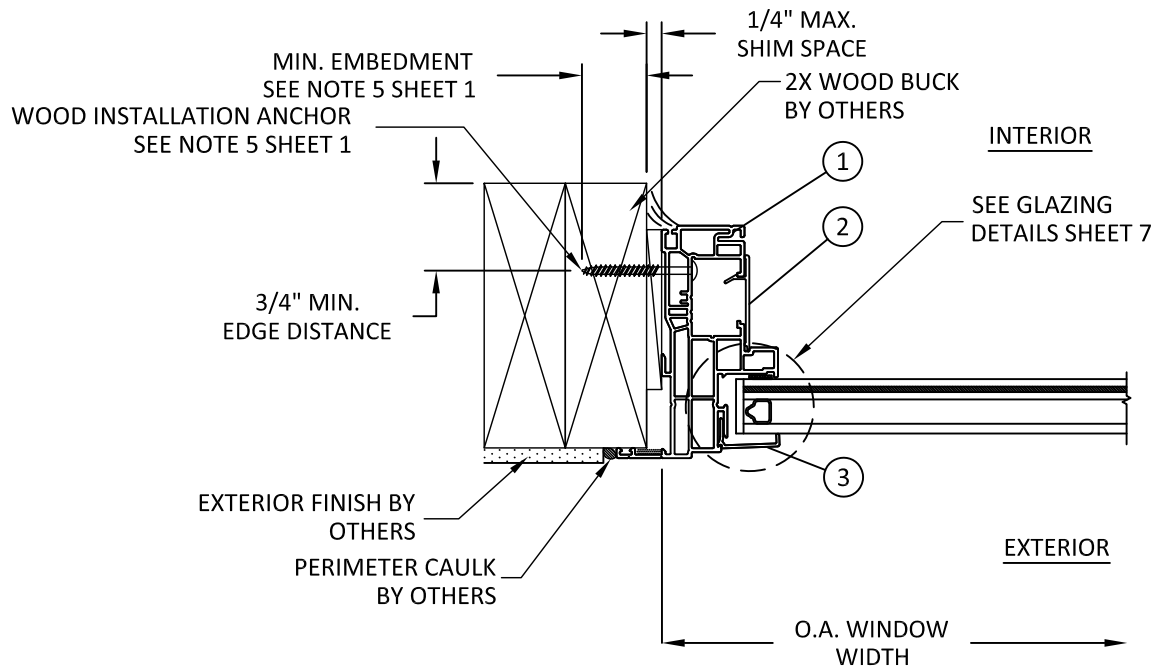
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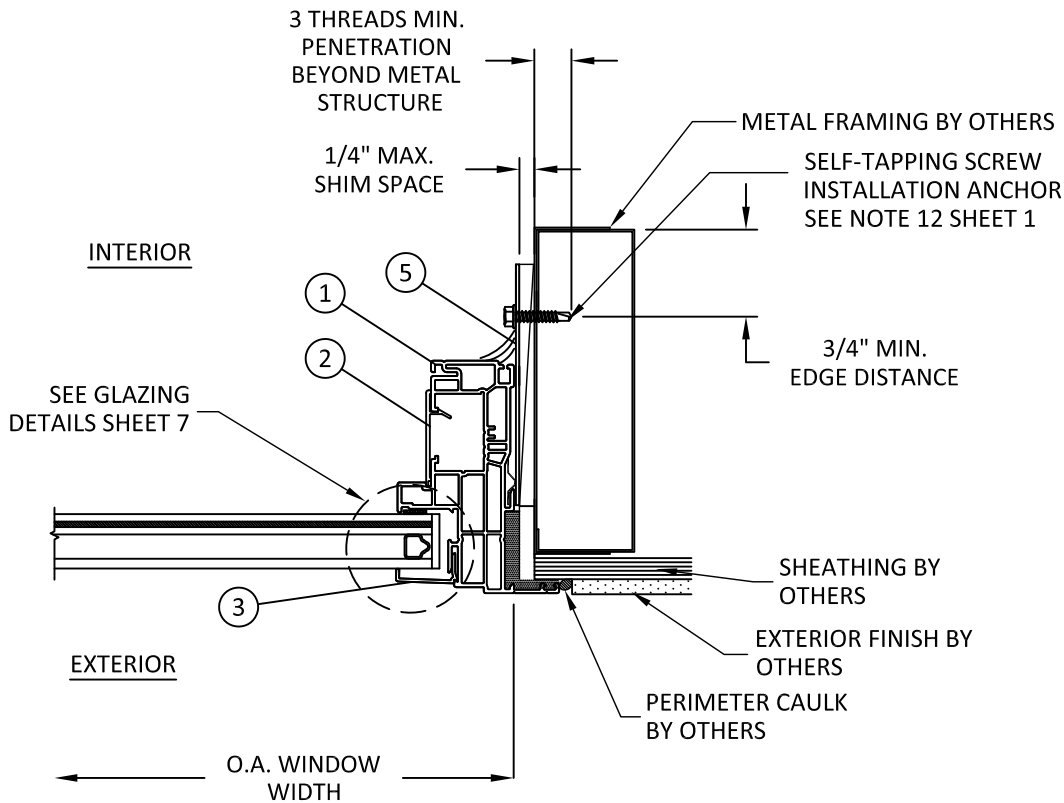
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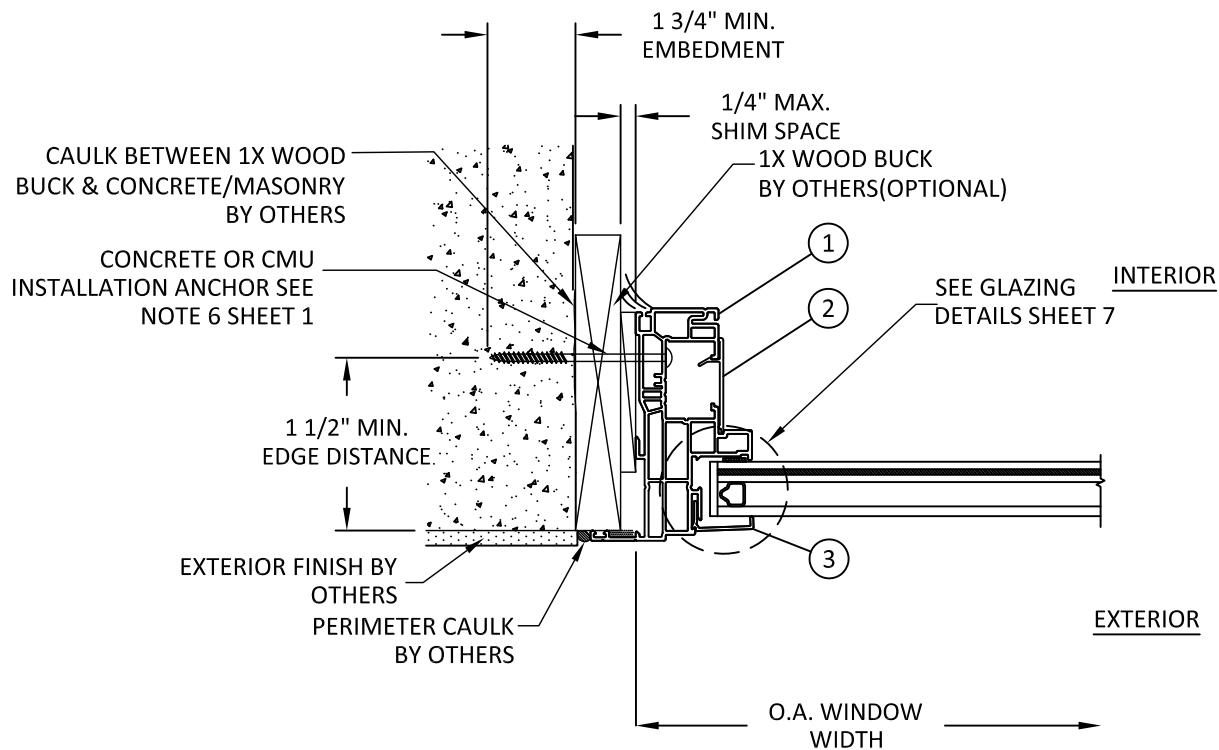
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DWG. #:	SWD055
SHEET:	5
	OF 8



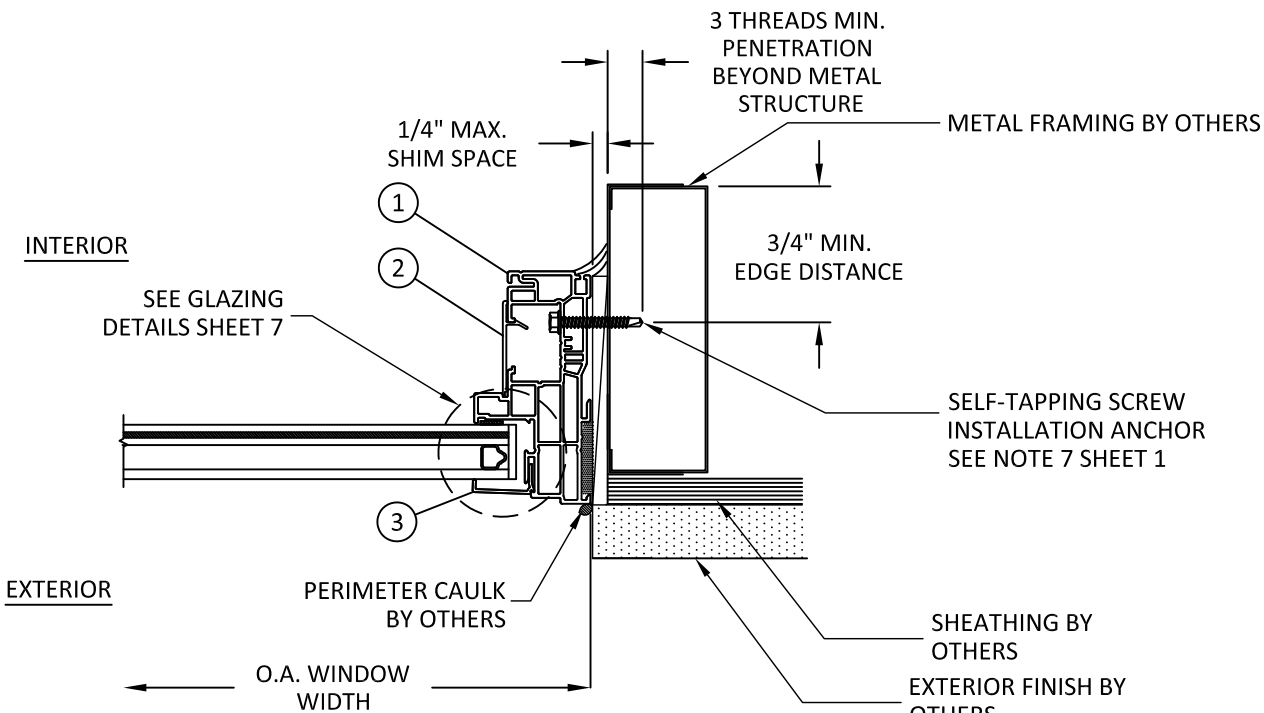
A
5
HORIZONTAL SECTION
JAMB - 2X WOOD FRAME
THROUGH FRAME INSTALLATION (FLANGE)



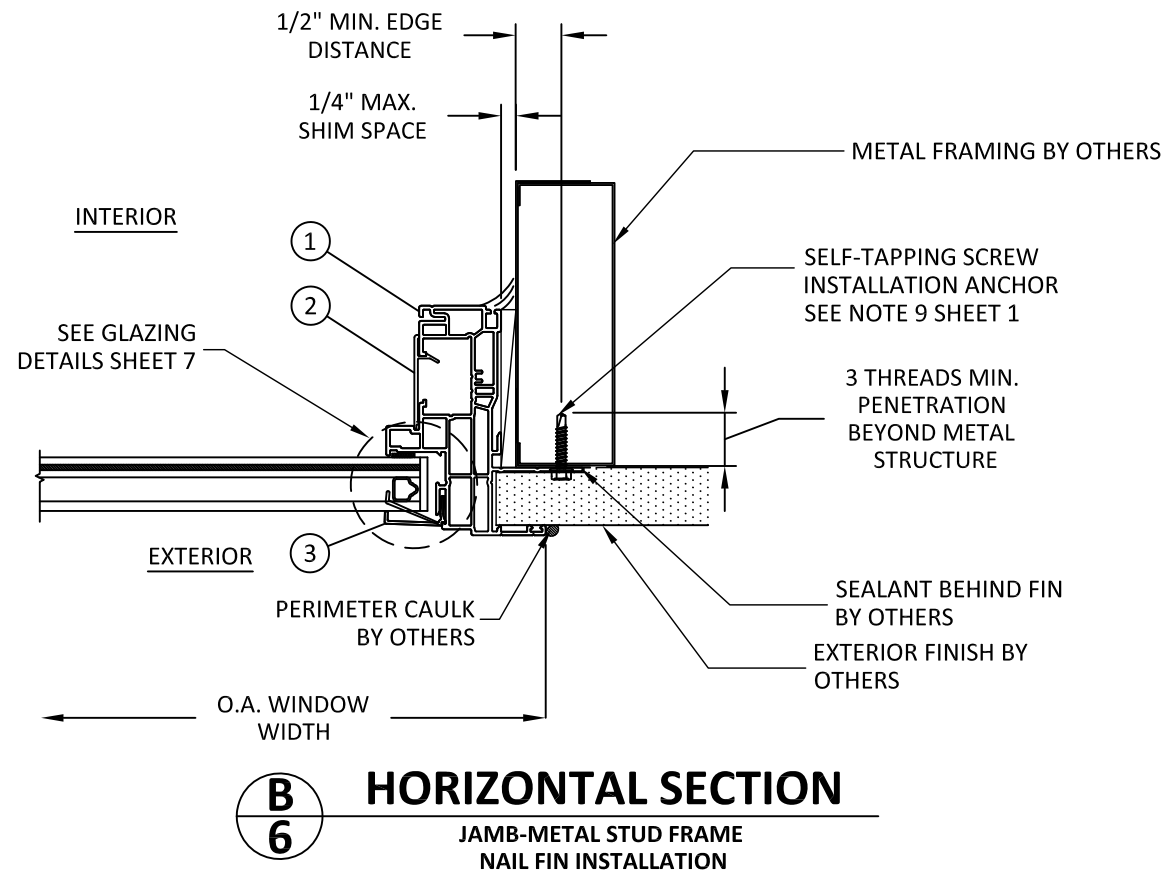
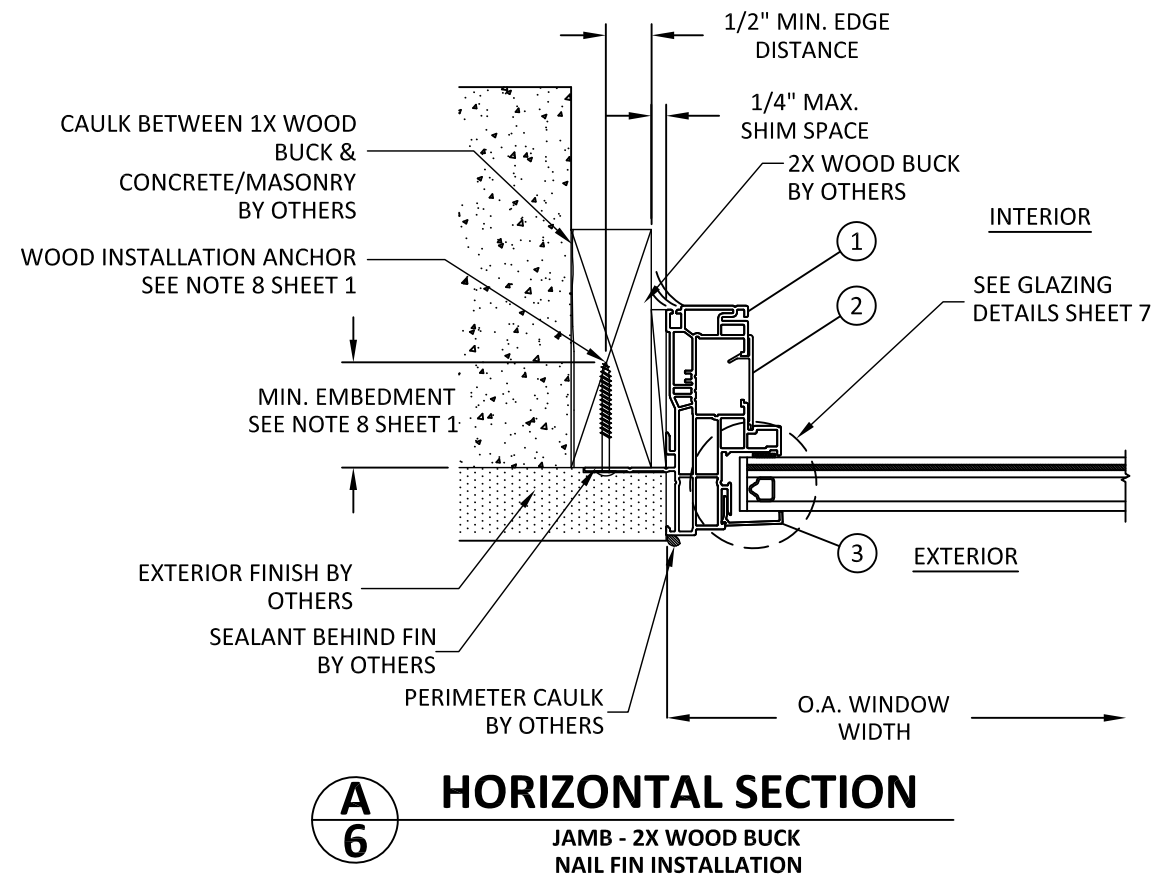
B
5
HORIZONTAL SECTION
JAMB - METAL STUD FRAME
CLIP INSTALLATION (FLANGE)



C
5
HORIZONTAL SECTION
JAMB - CONCRETE OR CMU
THROUGH FRAME INSTALLATION (FLANGE)



D
5
HORIZONTAL SECTION
JAMB-METAL STUD
THROUGH FRAME INSTALLATION (REPLACEMENT)



171 JET SERVICES WAY
DOTHAN, AL 36303
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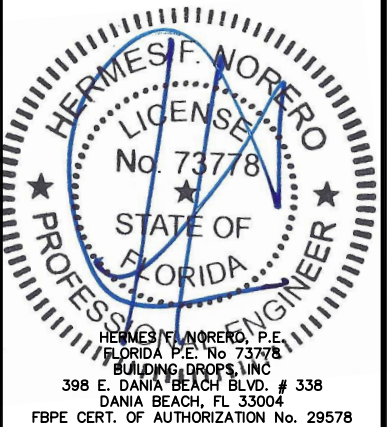
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(HVHZ) (IMPACT)
HORIZONTAL SECTION
(NAIL FIN INSTALLATION)

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DWG. BY: MS	CHK. BY: HFN
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SCALE: **NTS**

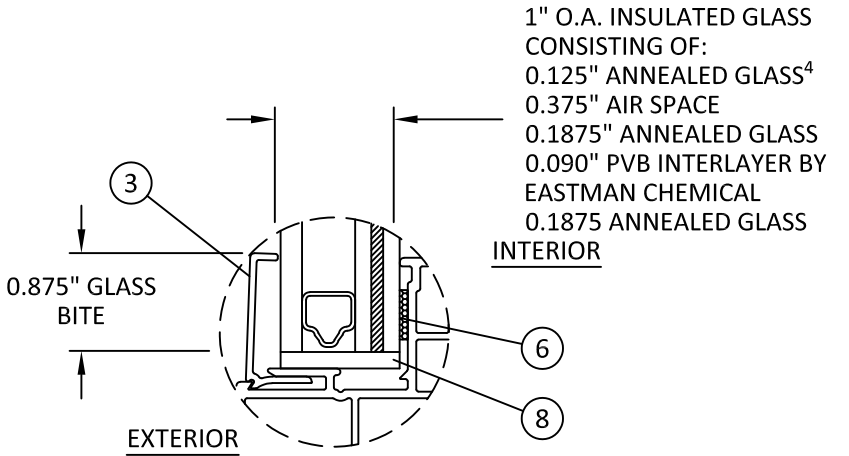
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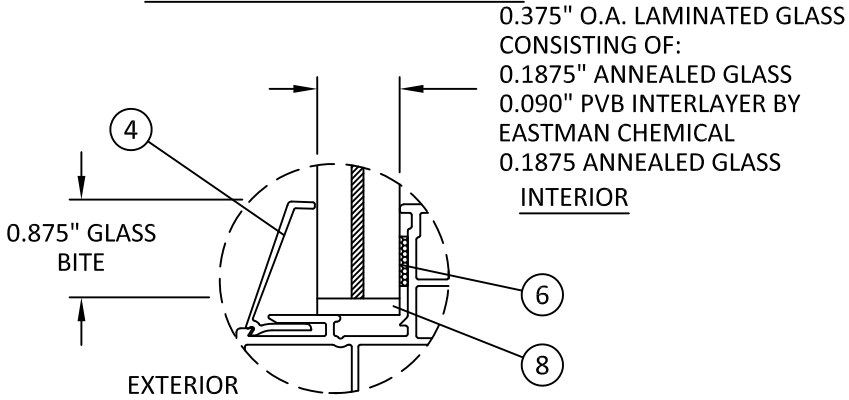
6

OF 8

GLASS LOAD CAPACITY (PSF)				
FRAME SIZE (IN)		G1	G3	G4
WIDTH	HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	60	60.0	70.0	90.0
30	60	60.0	70.0	90.0
36	60	60.0	70.0	90.0
42	60	60.0	59.0	90.0
48	60	60.0	-	90.0
54	60	60.0	-	90.0
60	60	53.6	-	90.0
66	60	43.3	-	90.0
72	60	43.3	-	90.0
24	66	60.0	70.0	90.0
30	66	60.0	70.0	90.0
36	66	60.0	70.0	90.0
42	66	60.0	-	90.0
48	66	60.0	-	90.0
54	66	60.0	-	90.0
60	66	43.3	-	90.0
66	66	39.1	-	90.0
72	66	-	-	90.0
24	72	60.0	70.0	90.0
30	72	60.0	70.0	90.0
36	72	60.0	70.0	90.0
42	72	60.0	-	90.0
48	72	60.0	-	90.0
54	72	60.0	-	90.0
60	72	43.3	-	90.0
66	72	-	-	90.0
72	72	-	-	90.0
24	78	60.0	70.0	90.0
30	78	60.0	70.0	90.0
36	78	60.0	-	90.0
42	78	60.0	-	90.0
48	78	60.0	-	90.0
54	78	48.5	-	90.0
60	78	-	-	87.9
66	78	-	-	84.9
24	84	60.0	70.0	90.0
30	84	60.0	70.0	90.0
36	84	60.0	-	90.0
42	84	60.0	-	90.0
48	84	50.0	-	90.0
54	84	-	-	89.0
60	84	-	-	84.1
24	90	60.0	70.0	90.0
30	90	60.0	-	90.0
36	90	60.0	-	90.0
42	90	60.0	-	90.0
48	90	50.0	-	90.0
54	90	-	-	86.3
24	96	60.0	70.0	90.0
30	96	60.0	-	90.0
36	96	60.0	-	90.0
42	96	50.0	-	90.0
48	96	-	-	90.0
54	96	-	-	84.0
24	102	60.0	70.0	90.0
30	102	60.0	-	90.0
36	102	60.0	-	90.0
42	102	50.0	-	90.0
48	102	-	-	89.7
24	108	60.0	70.0	90.0
30	108	60.0	-	90.0
36	108	60.0	-	90.0
42	108	-	-	90.0
48	108	-	-	88.2
24	114	60.0	-	90.0
30	114	60.0	-	90.0
36	114	50.0	-	90.0
42	114	-	-	90.0
24	120	60.0	-	90.0
30	120	60.0	-	90.0
36	120	50.0	-	90.0
42	120	-	-	90.0
24	126	60.0	-	90.0
30	126	60.0	-	90.0
36	126	-	-	90.0

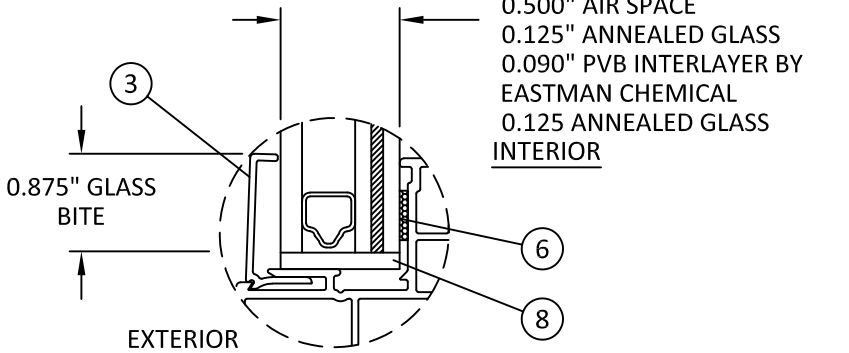


GLAZING DETAIL 1



GLAZING DETAIL 2

ARCH, EYEBROW ONLY
MAX +150/-150 PSF



GLAZING DETAIL 3

GLASS DETAILS CONTINUE ON SHEET 8

D.L.O. = FRAME SIZE - 3.938"

- NOTE:
- ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CURRENT FBC AND ASTM E 1300 GLASS CHART REQUIREMENTS.
 - SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER CH 24 OF THE CURRENT FBC.
 - GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT 1/4 SPAN FROM CORNERS.
 - TEMPERED GLASS ON SACRIFICIAL LITE SHALL BE USE ON APPLICATION 30 FEET ABOVE GRADE



171 JET SERVICES WAY
DOTHAN, AL 36303
PH: 850-271-8900 FX: 850-271-3050

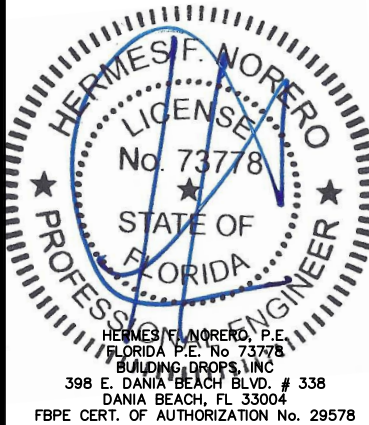
TITLE:
SERIES 9070 FIXED WINDOW
(HVHZ) (IMPACT)
GLAZING DETAILS AND
PRESSURE TABLE

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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.



FL #:
FL14590

DATE: **01.26.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **SWD055**

SHEET:

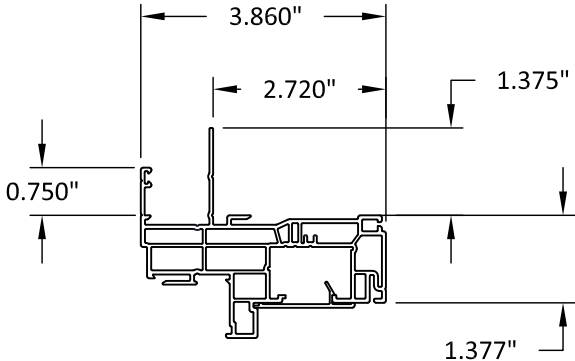
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OF 8

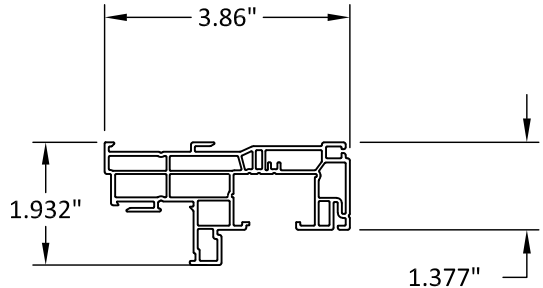
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BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	HEAD, JAMB, SILL FRAME (FIN)	VINYL	VISION EXTRUSIONS LIMITED
1A	HEAD, JAMB, SILL FRAME (FRAME)	VINYL	VISION EXTRUSIONS LIMITED
2	JAMB COVER	VINYL	VISION EXTRUSIONS LIMITED
3	GLAZING BEAD (INSULATED GLASS)	VINYL	VISION EXTRUSIONS LIMITED
4	GLAZING BEAD (SINGLE GLASS)	VINYL	VISION EXTRUSIONS LIMITED
5	INSTALLATION CLIP	STEEL	-
6	GLASS BEDDING- DOW1199	SILICONE	DOW CORNING
7	GLASS BEDDING- NOVAGUARD M-100	SILICONE	NOVAGUARD
8	SPACER		DURA-SEAL

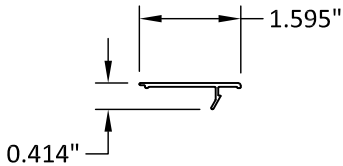
1 HEAD, JAMB, SILL FRAME (FIN)
VINYL
TYPICAL WALL THICKNESS: .060"



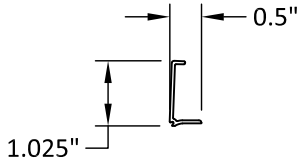
1A HEAD, JAMB, SILL FRAME (FLANGE)
VINYL
TYPICAL WALL THICKNESS: .060"



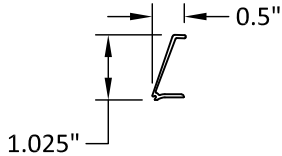
2 JAMB COVER
VINYL
TYPICAL WALL THICKNESS: .060"



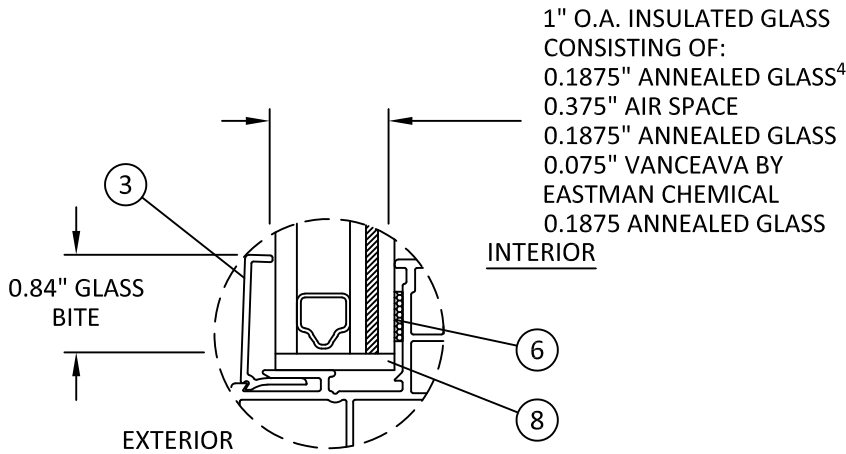
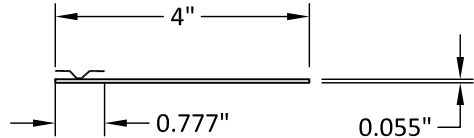
3 GLAZING BEAD (INSULATED)
VINYL
TYPICAL WALL THICKNESS: .050"



4 GLAZING BEAD (SINGLE GLAZE)
VINYL
TYPICAL WALL THICKNESS: .050"



5 INSTALLATION CLIP
STEEL
TYPICAL WALL THICKNESS: .050"



GLAZING DETAIL 4

NOTE:

- ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CURRENT FBC AND ASTM E 1300 GLASS CHART REQUIREMENTS.
- SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER CH 24 OF THE CURRENT FBC.
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- TEMPERED GLASS ON SACRIFICIAL LITE SHALL BE USE ON APPLICATION 30 FEET ABOVE GRADE



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TITLE: SERIES 9070 FIXED WINDOW
(HVHZ) (IMPACT)
GLAZING DETAILS AND
BILL OF MATERIALS

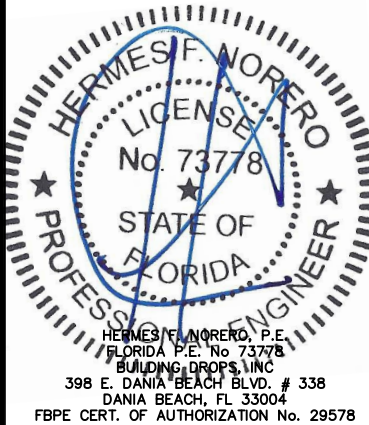
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CHK. BY: HFN

SCALE: NTS

DWG. #: SWD055

SHEET:

8

OF 8