

ANDERSEN CORPORATION

400 SERIES CASEMENT FIXED WINDOWS

(HVHZ)(IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- 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 DENISTY PLASTIC OR BETTER.
- INSTALLATION CLIP: FOR INSTALLATION THROUGH 2X WOOD FRAME USE TWO (2) #8 WOOD SCREW OR ONE (1) #10 WOOD SCREW PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. INSTALLATION CLIP MAY BE USED FLAT AGAINST 2X WOOD BUCK OR BENT AROUND 2X WOOD BUCK.
- INSTALLATION CLIP: FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/ MASONRY, USE ONE (1) 3/16 INCH ITW TAPCON PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- INSTALLATION CLIP: FOR INSTALLATION THROUGH METAL STUD USE TWO (2) #8 SELF-DRILLING SCREWS PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION THROUGH METAL FRAME SUBSTRATE.
- 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.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS (20 GAUGE).
 - ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5).

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, 2X AND METAL STUD 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: PONDEROSA PINE (MIN. SG = 0.40)/VINYL
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAILS.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL
O: FIXED PANEL
- IN ACCORDANCE WITH THE CURRENT FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES AS PER CH. 23 OF THE FBC.
- LVL FRAME MATERIAL COMPLIES WITH APPLICABLE FBC STANDARDS FOR STRUCTURAL COMPOSITE LUMBER.
- CUSTOM SIZES AVAILABLE UPON REQUEST.

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2	ELEVATIONS
3	ANCHOR LAYOUTS
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6	GLAZING DETAILS
7	COMPONENTS & BILL OF MATERIALS

UNIT	DESIGN PRESSURE	IMPACT RATING
P5060	+ 70.0 /- 80.0 PSF	LARGE & SMALL MISSILE IMPACT RATED
ET8		
CTC3		
CTR6010		

NOTE: SEE SHEET 6 FOR APPLICABLE GLAZING OPTIONS



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES CASEMENT
FIXED WINDOWS
(HVHZ)(IMPACT)

GENERAL & INSTALLATION 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

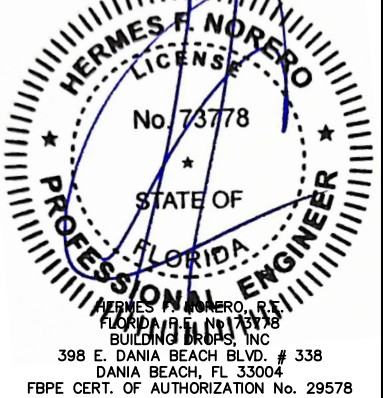
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REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.14.15
6TH FBC CODE CHANGE	HR	10.1.17
7TH FBC CODE CHANGE	SR	3.20.20
8TH FBC CODE CHANGE	SH	5.25.23

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.08.14 20:56:47 -0400'



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FL15905

DATE: 10.01.17

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CHK. BY: HFN

SCALE: NTS

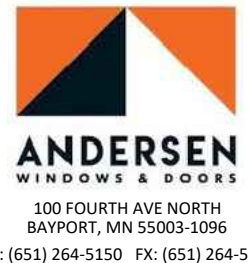
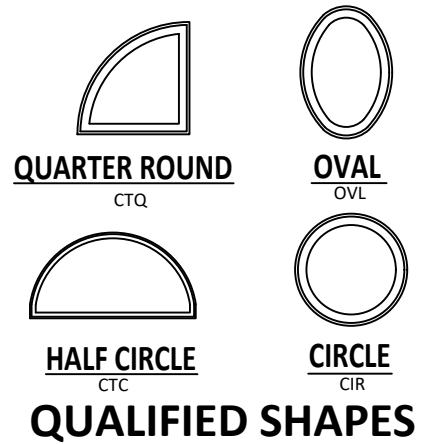
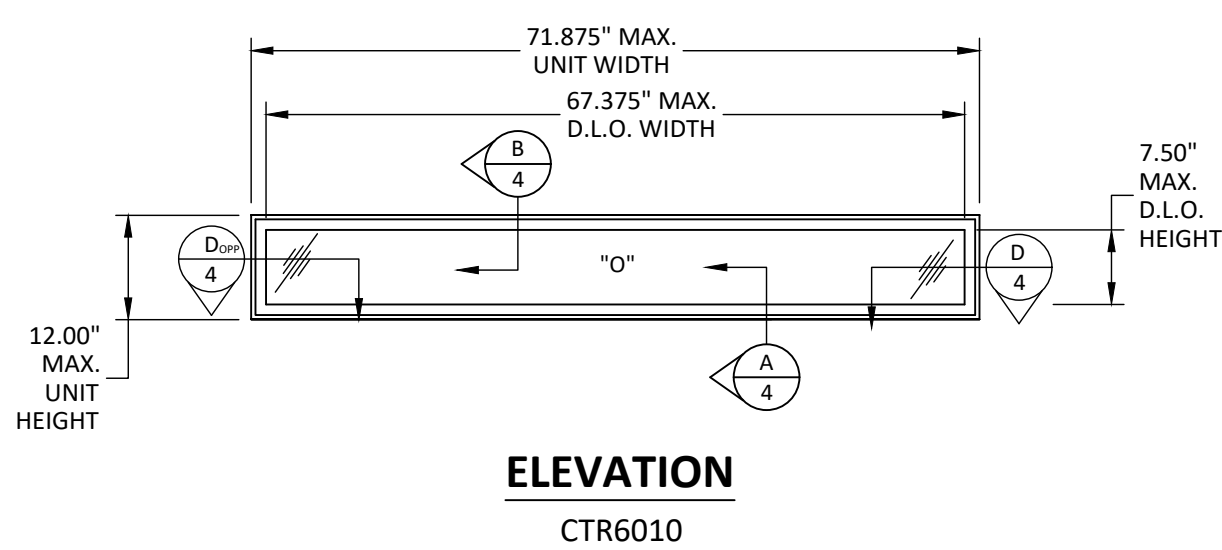
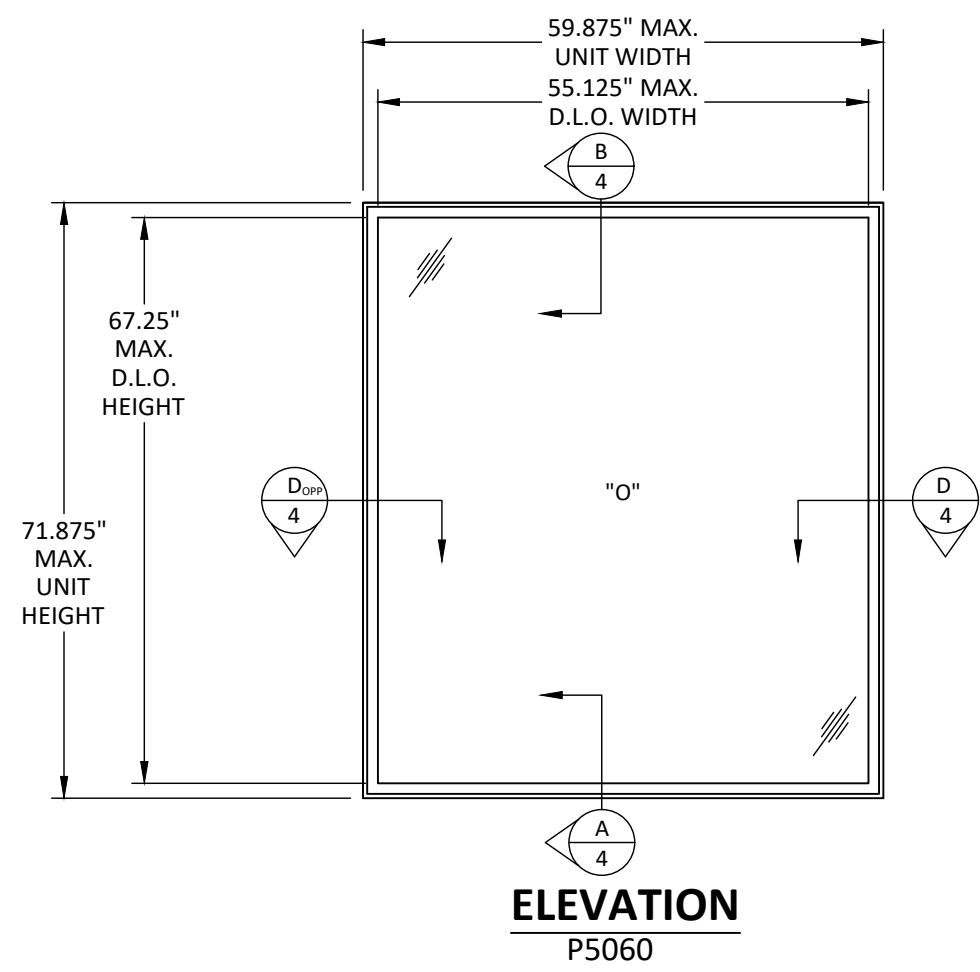
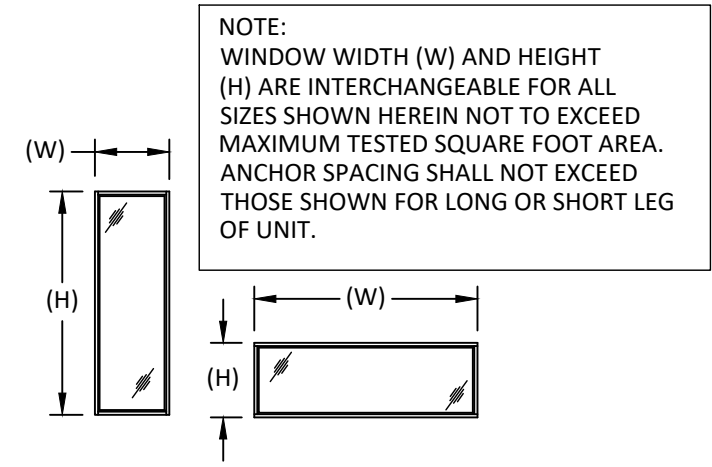
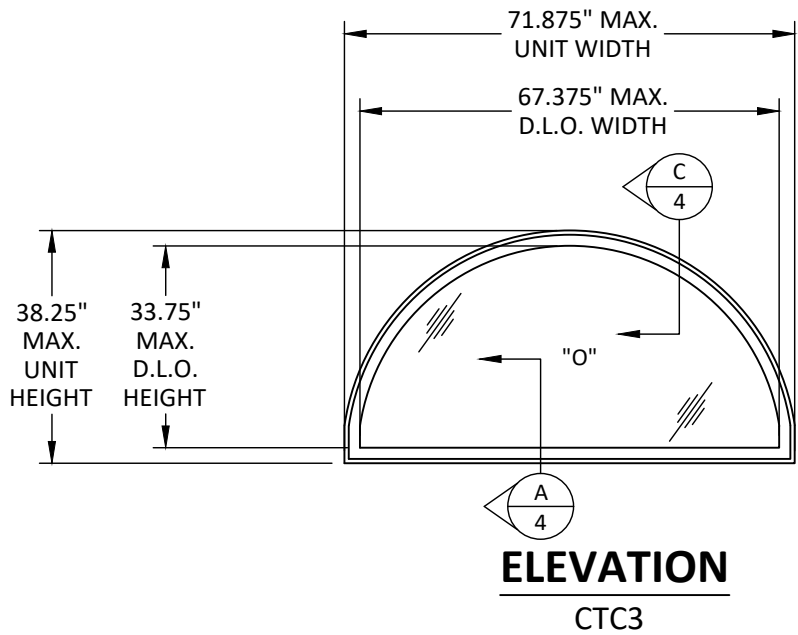
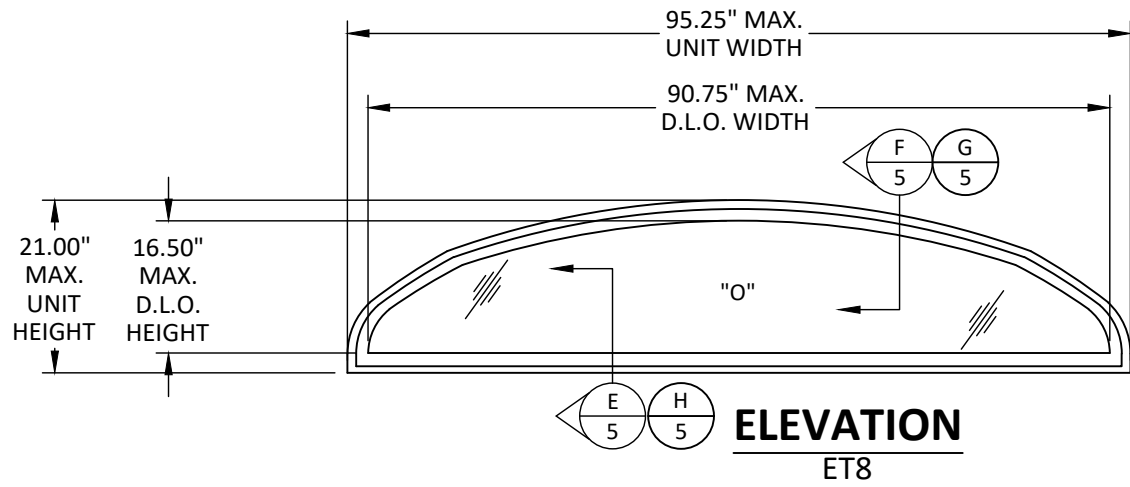
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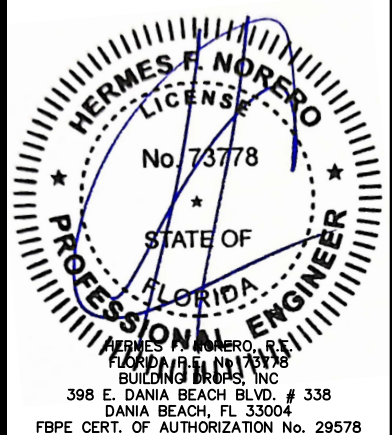
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TITLE: 400 SERIES CASEMENT FIXED WINDOWS (HVHZ)/(IMPACT) ELEVATIONS
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DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

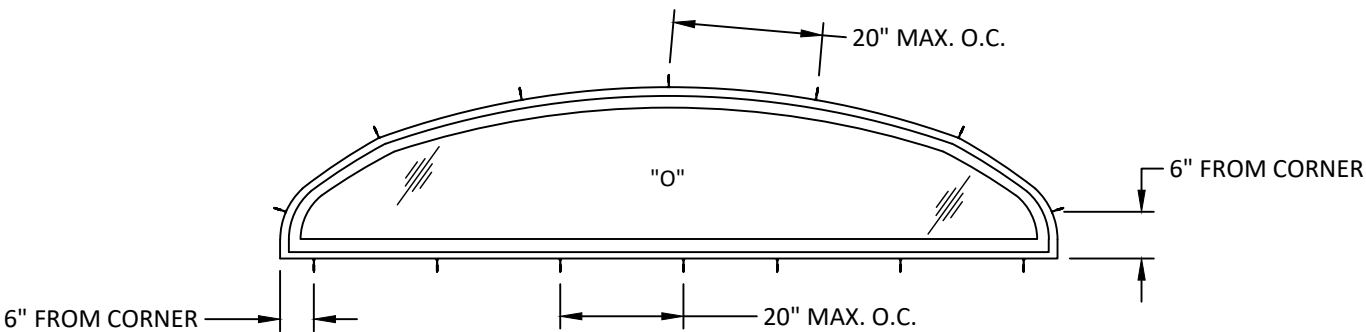
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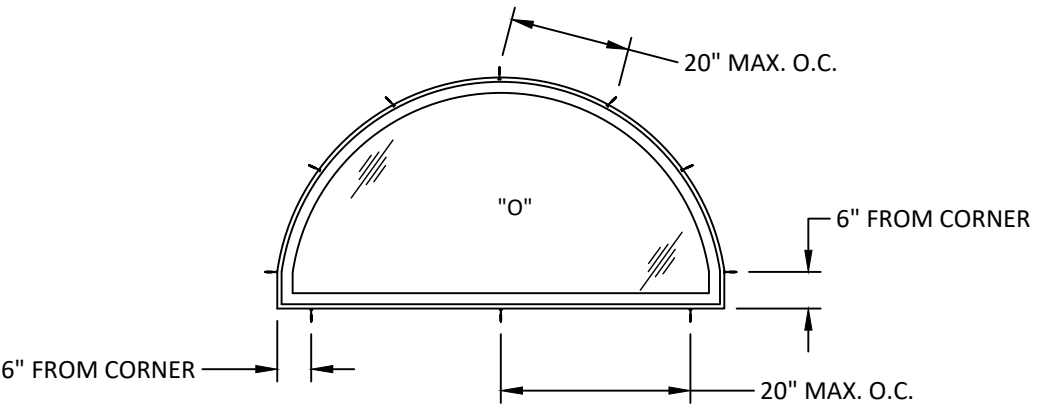


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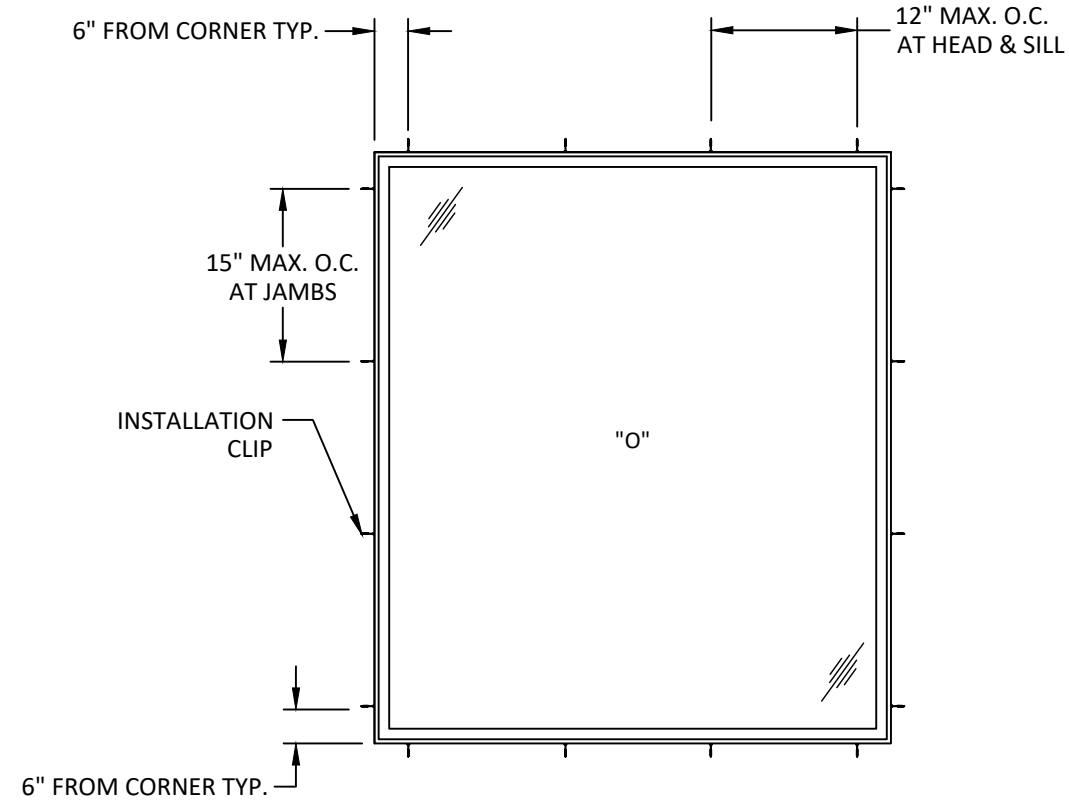
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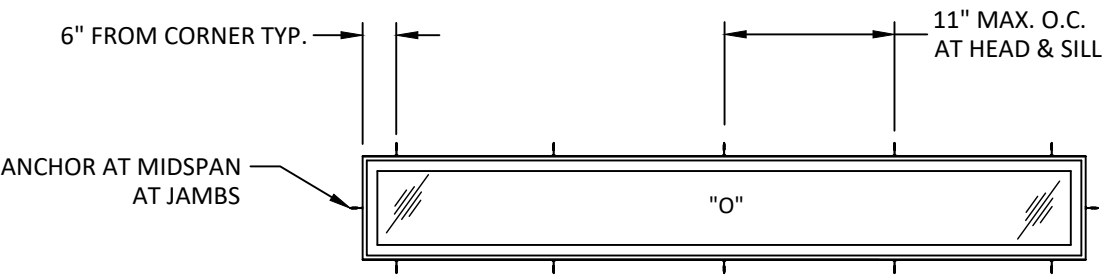
ANCHOR LAYOUT
ET - UNITS



ANCHOR LAYOUT
CTC,CTQ,CIR,OVL - UNITS



ANCHOR LAYOUT
P - UNITS



ANCHOR LAYOUT
CTR - UNITS



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

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(HVHZ)/(IMPACT)
ANCHOR LAYOUTS

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398 E. DANIA BEACH BLVD., STE. 338
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PH: (954)399-8478
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WEB: www.buildingdrops.com

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FLORIDA LICENSE NO. 73778
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398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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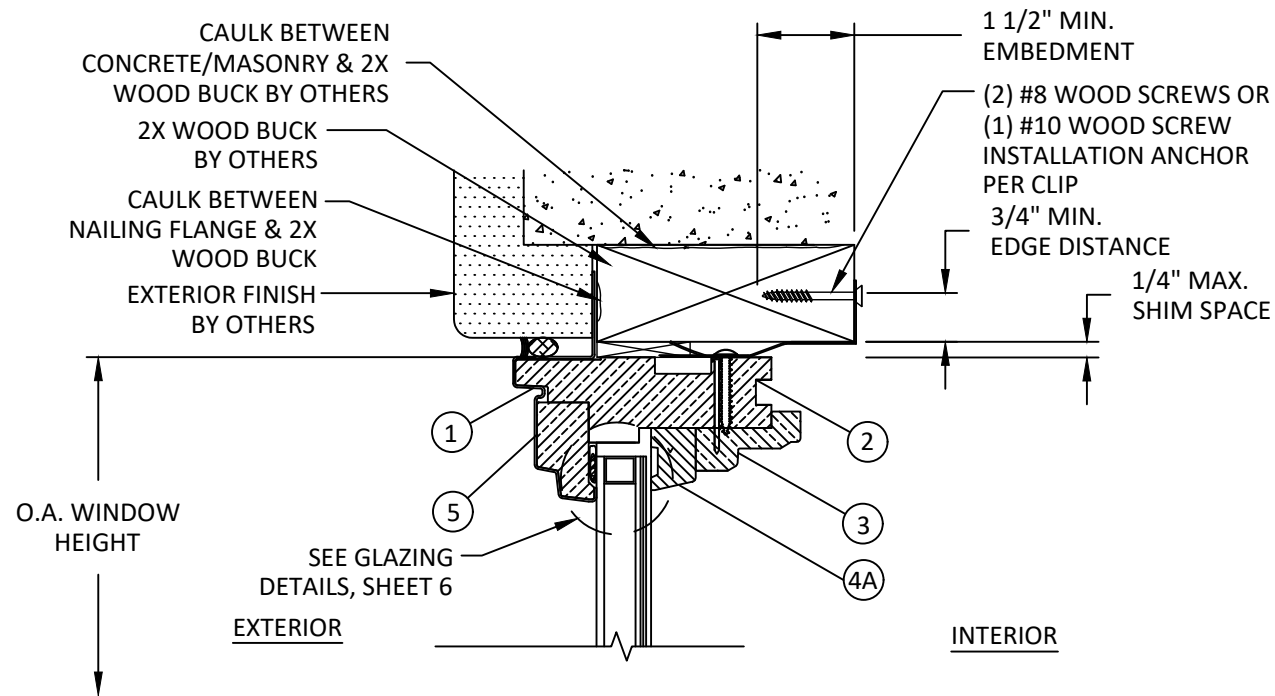
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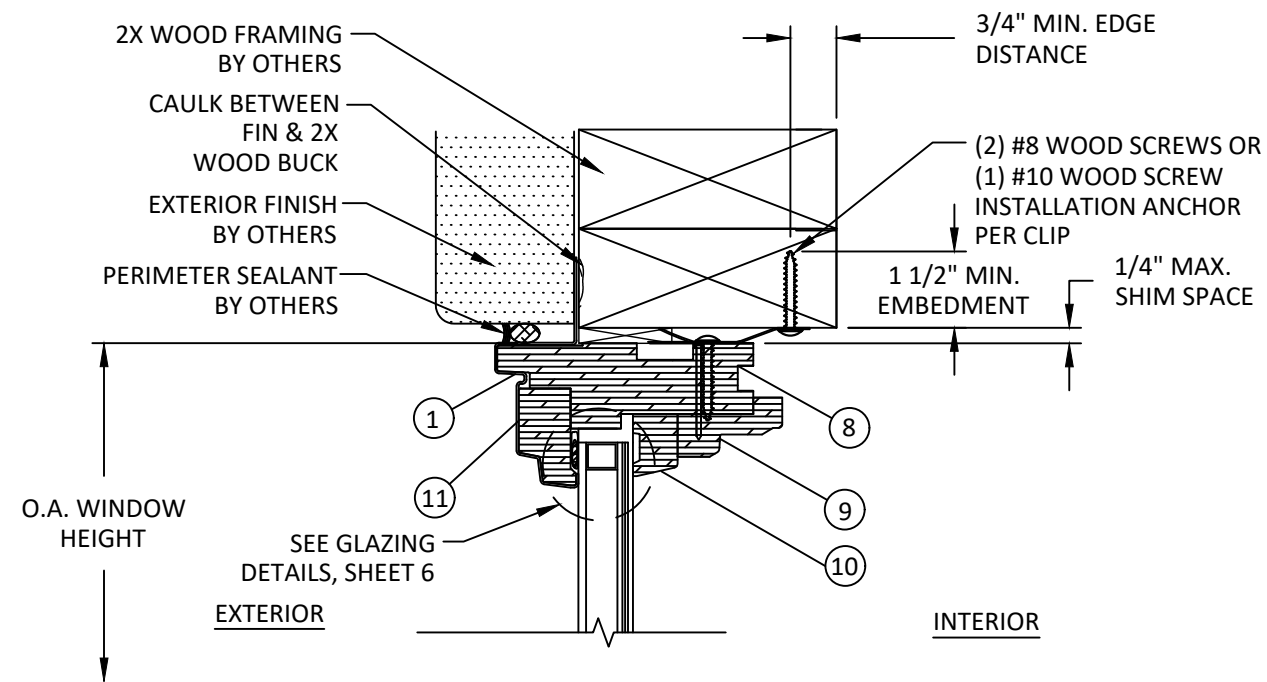
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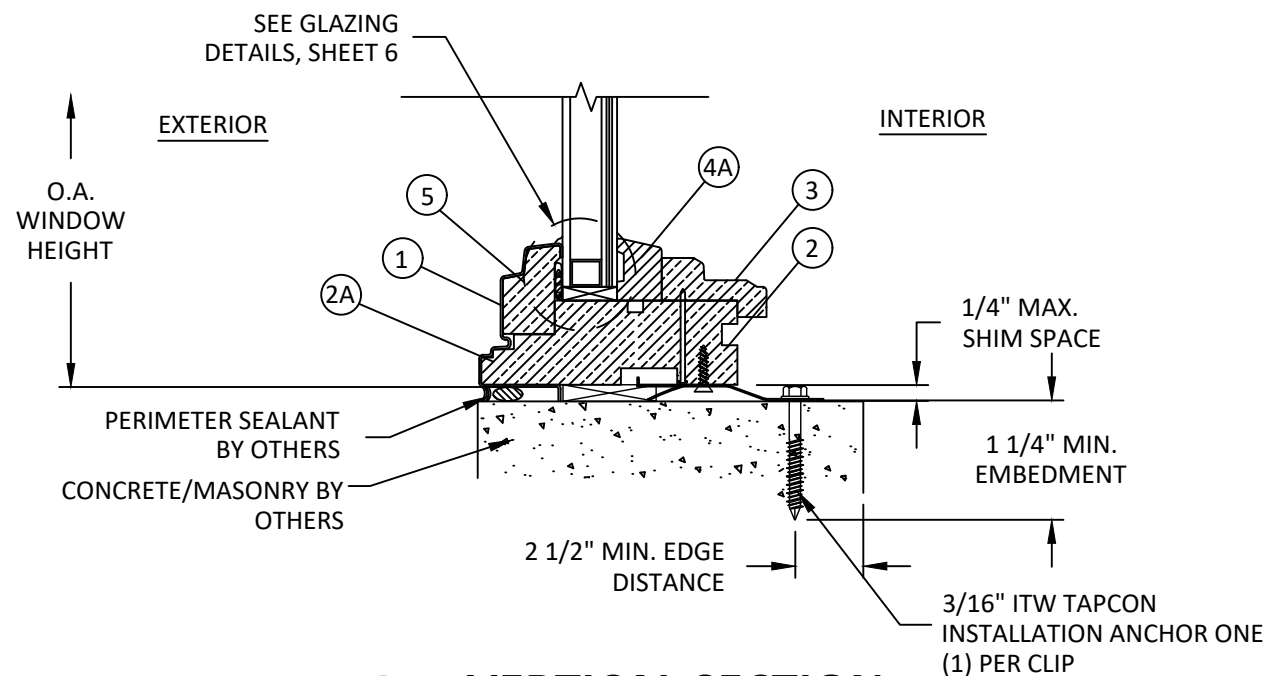


B
4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
INSTALLATION CLIP



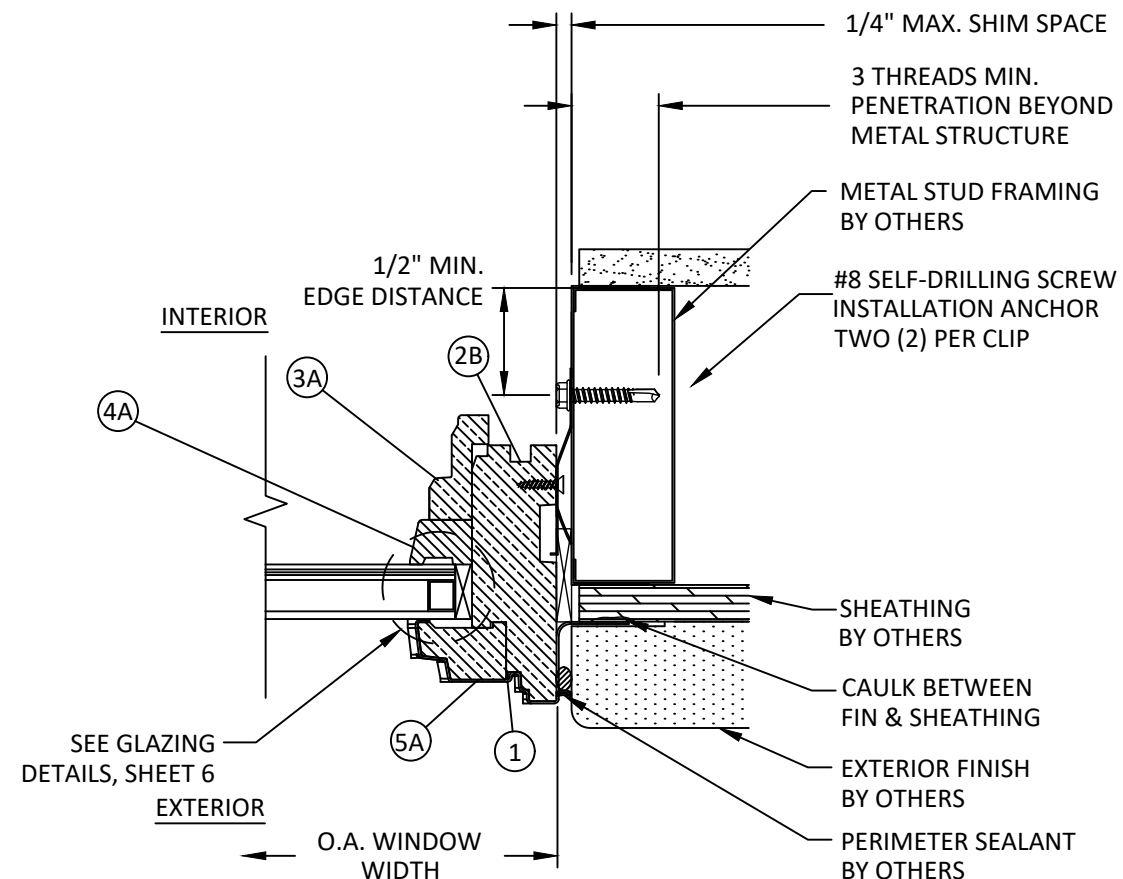
C
4 **VERTICAL SECTION**
HEAD - 2X WOOD FRAME
INSTALLATION CLIP

NOTE: NAILING FIN USE IS REQUIRED WHEN INSTALLATION CLIP IS WRAPPED AROUND BUCK AS SHOWN IN DETAIL B/4.



A
4 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
INSTALLATION CLIP

NOTE: OPTIONAL 1X WOOD BUCK MAY BE EMPLOYED.



D
4 **HORIZONTAL SECTION**
JAMB - METAL STUD
INSTALLATION CLIP



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PH: (651) 264-5150 FX: (651) 264-5485

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(HVHZ)/(IMPACT)

VERTICAL & HORIZONTAL SECTIONS

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398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
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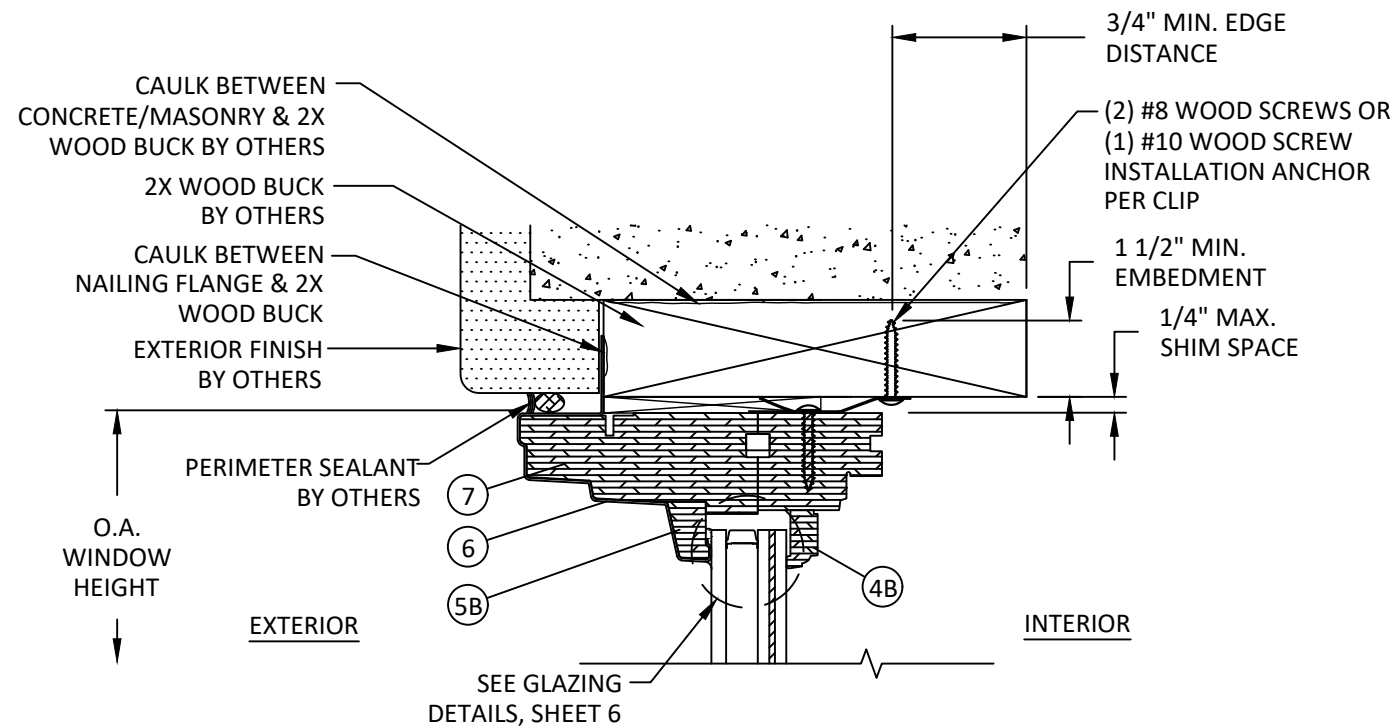
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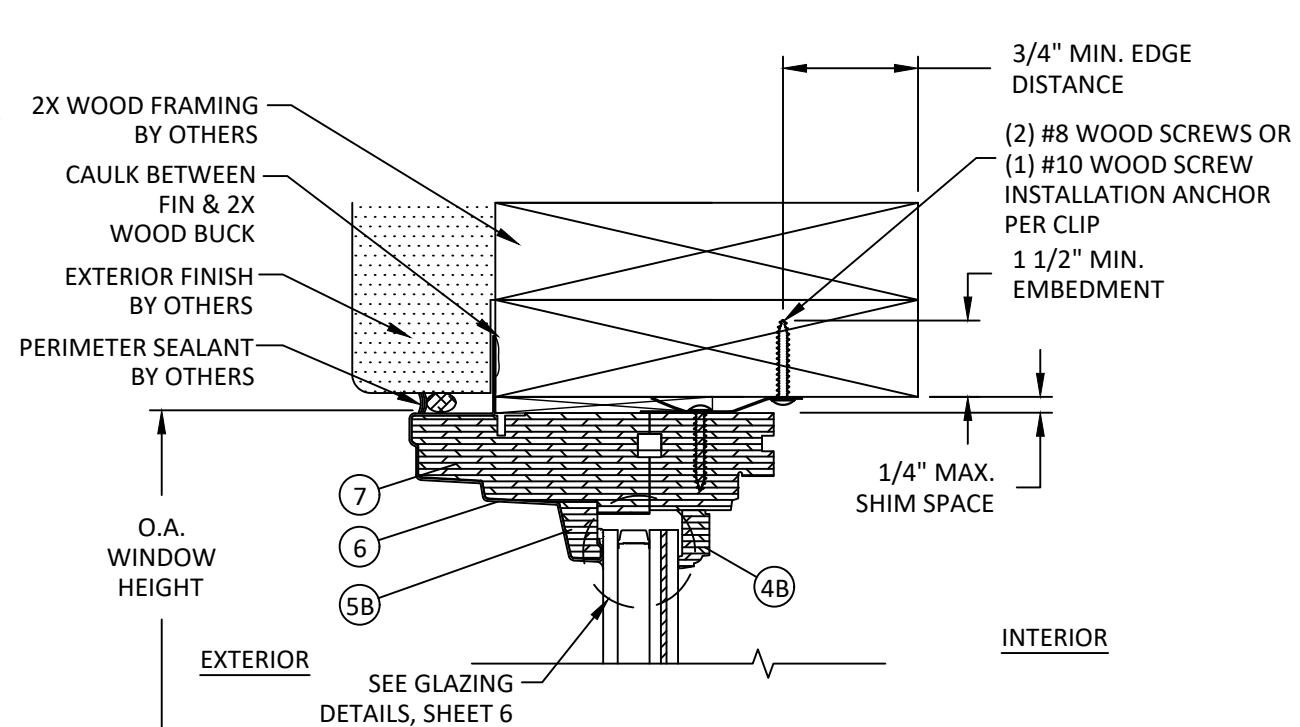
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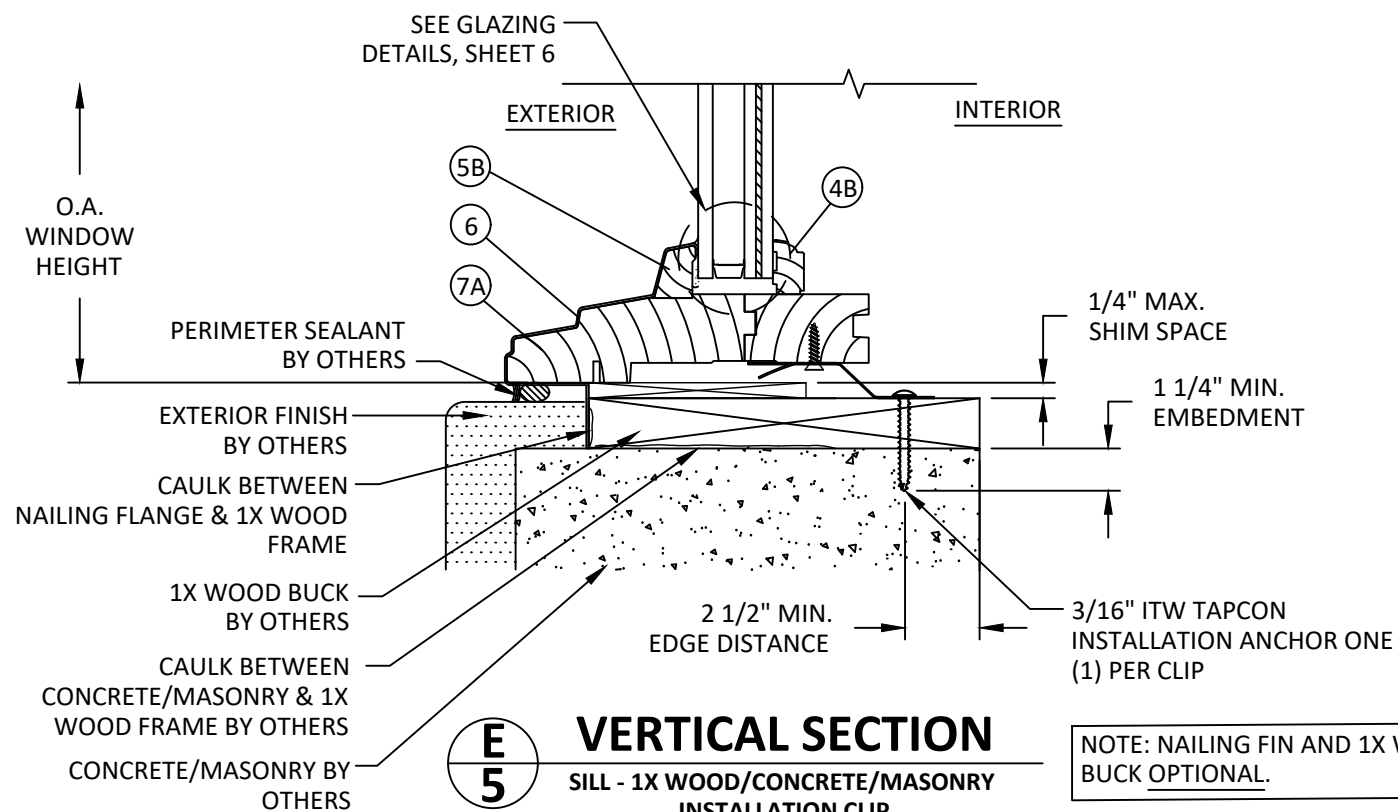
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F
5 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
INSTALLATION CLIP

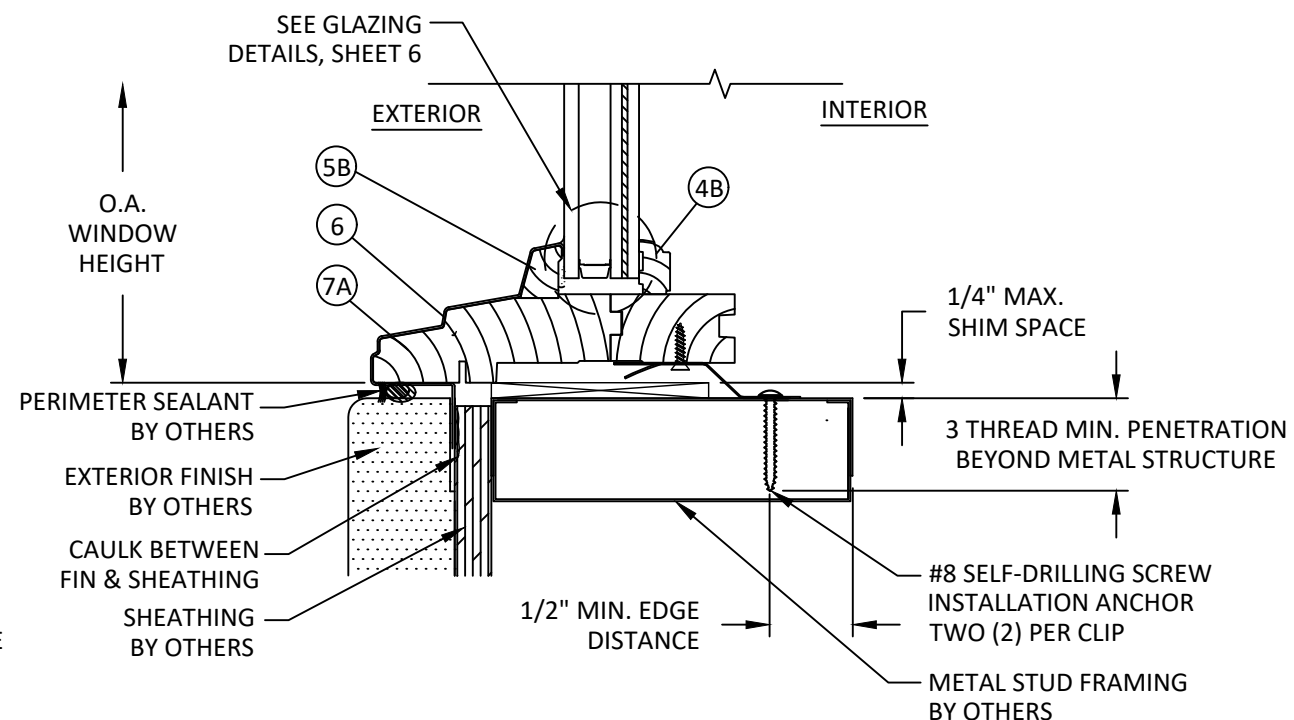


G
5 **VERTICAL SECTION**
HEAD - 2X WOOD FRAME
INSTALLATION CLIP



E
5 **VERTICAL SECTION**
SILL - 1X WOOD/CONCRETE/MASONRY
INSTALLATION CLIP

NOTE: NAILING FIN AND 1X WOOD
BUCK OPTIONAL.



H
5 **VERTICAL SECTION**
SILL - METAL STUD
INSTALLATION CLIP



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(HVHZ)/(IMPACT)
VERTICAL SECTIONS

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LARGE & SMALL MISSILE IMPACT RATED							
GLAZING TABLE FOR P-UNITS							
	P30	P35	P40	P45	P50	P55	P60
P30	G1/G3	G1/G3	G1/G3	G1/G3	G1/G3	G1/G3	G1/G3
P35	G1/G3	G1/G3	G1/G3	G1/G3	G1/G3	G1/G2	G1/G2
P40	G1/G3	G1/G3	G1/G3	G1/G3	G1/G2	G1/G2	G1/G2
P45	G1/G3	G1/G3	G1/G3	G1/G2	G1/G2	G1/G2	G1/G2
P50	G1/G3	G1/G3	G1/G2	G1/G2	G1/G2	G1/G2	G1/G2
P55	G1/G3	G1/G2	G1/G2	G1/G2	G1/G2	N/A	N/A
P60	G1/G3	G1/G2	G1/G2	G1/G2	G1/G2	N/A	N/A

DOW CORNING 9-1350
SILICONE BEDDING

EXTERIOR

INTERIOR

GLAZING DETAIL 2

NOTE: GLAZING DETAIL 2 FOR USE WITH P-UNITS.
SEE L.M.I. GLAZING TABLE FOR APPLICABLE
SIZES.

LARGE & SMALL MISSILE IMPACT RATED							
GLAZING TABLE FOR P-UNITS							
	P30	P35	P40	P45	P50	P55	P60
P30	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T
P35	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T
P40	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G2T
P45	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G2T	G1/G2T
P50	G1/G3T	G1/G3T	G1/G3T	G1/G3T	G1/G2T	G1/G2T	G1/G2T
P55	G1/G3T	G1/G3T	G1/G3T	G1/G2T	G1/G2T	N/A	N/A
P60	G1/G3T	G1/G3T	G1/G2T	G1/G2T	G1/G2T	N/A	N/A

DOW CORNING 9-1350
SILICONE BEDDING

EXTERIOR

INTERIOR

GLAZING DETAIL 3

NOTE: GLAZING DETAIL 3 FOR USE WITH P-UNITS
AND CTR-UNITS. SEE L.M.I. GLAZING TABLE
FOR APPLICABLE SIZES.

- 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. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN GLASS CHARTS.

DOW CORNING 9-1350
SILICONE BEDDING

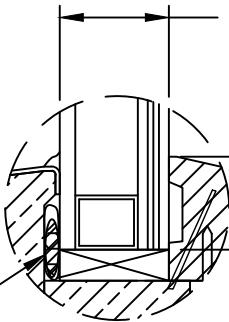
EXTERIOR

INTERIOR

GLAZING DETAIL 1

NOTE: GLAZING DETAIL 1 FOR USE WITH ALL UNITS.
L.M.I. & S.M.I. RATED.

"3.9-M" 27.1 MM O.A. I.G. CONSISTING OF:
3.9 MM ANNEALED GLASS
METAL SPACER
4.7 MM ANNEALED GLASS
0.095" SENTRYGLAS INTERLAYER BY KURARAY
4.7 MM ANNEALED GLASS



DOW CORNING 9-1350
SILICONE BEDDING

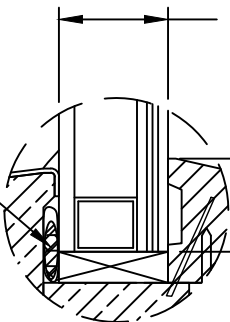
EXTERIOR

INTERIOR

GLAZING DETAIL 2T

NOTE: GLAZING DETAIL 2T FOR USE WITH P-UNITS.
SEE L.M.I. & S.M.I. GLAZING TABLE FOR
APPLICABLE SIZES.

"3.9T-M" 27.1 MM O.A. I.G. CONSISTING OF:
3.9 MM TEMPERED GLASS
METAL SPACER
4.7 MM ANNEALED GLASS
0.095" SENTRYGLAS INTERLAYER BY KURARAY
4.7 MM ANNEALED GLASS



0.500" GLASS
BITE

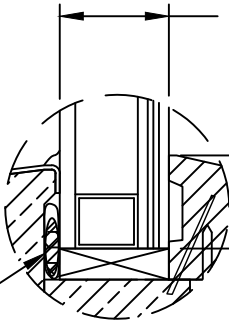
EXTERIOR

INTERIOR

GLAZING DETAIL 2T

NOTE: GLAZING DETAIL 2T FOR USE WITH P-UNITS.
SEE L.M.I. & S.M.I. GLAZING TABLE FOR
APPLICABLE SIZES.

"3.1-M" 26.3 MM O.A. I.G. CONSISTING OF:
3.1 MM ANNEALED GLASS
METAL SPACER
4.7 MM ANNEALED GLASS
0.095" SENTRYGLAS INTERLAYER BY KURARAY
4.7 MM ANNEALED GLASS



DOW CORNING 9-1350
SILICONE BEDDING

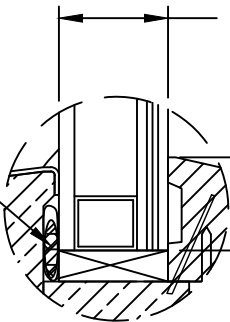
EXTERIOR

INTERIOR

GLAZING DETAIL 3T

NOTE: GLAZING DETAIL 3T FOR USE WITH P-UNITS AND
CTR-UNITS. SEE L.M.I. & S.M.I. GLAZING TABLE
FOR APPLICABLE SIZES.

"3.1T-M" 26.3 MM O.A. I.G. CONSISTING OF:
3.1 MM TEMPERED GLASS
METAL SPACER
4.7 MM ANNEALED GLASS
0.095" SENTRYGLAS INTERLAYER BY KURARAY
4.7 MM ANNEALED GLASS



0.500" GLASS
BITE

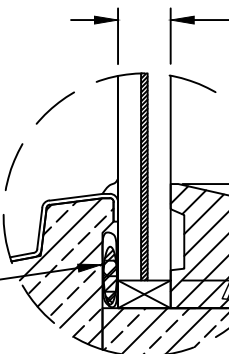
EXTERIOR

INTERIOR

GLAZING DETAIL 3T

NOTE: GLAZING DETAIL 3T FOR USE WITH P-UNITS AND
CTR-UNITS. SEE L.M.I. & S.M.I. GLAZING TABLE
FOR APPLICABLE SIZES.

9/16" O.A. MONOLITHIC LAM.
GLASS CONSISTING OF:
1/4" ANNEALED GLASS
0.090" PVB SAFLEX BY EASTMAN
OR BUTACITE BY KURARAY INTERLAYER
1/4" ANNEALED GLASS



DOW CORNING 9-1350
SILICONE BEDDING

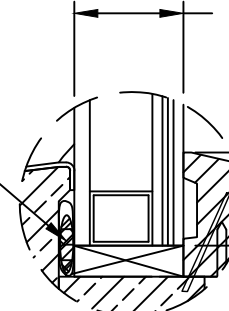
EXTERIOR

INTERIOR

GLAZING DETAIL 4

NOTE: GLAZING DETAIL 4 FOR ET-UNITS &
CTC-UNITS ONLY. L.M.I. & S.M.I. RATED.

"3.0/13.0/11.7-M" 27.7 MM O.A. I.G. CONSISTING OF:
3.0 MM ANNEALED GLASS
METAL SPACER
4.7 MM ANNEALED GLASS
0.095" SENTRYGLAS INTERLAYER BY KURARAY
4.7 MM ANNEALED GLASS



0.500" GLASS
BITE

EXTERIOR

INTERIOR

GLAZING DETAIL 4

NOTE: GLAZING DETAIL 4 FOR ET-UNITS &
CTC-UNITS ONLY. L.M.I. & S.M.I. RATED.



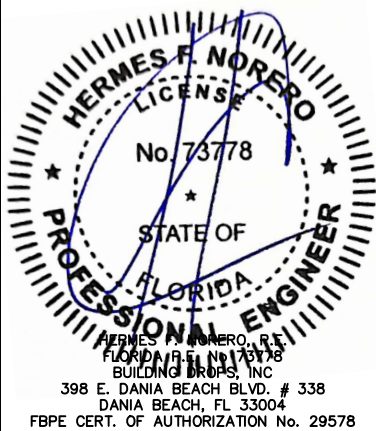
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES CASEMENT
FIXED WINDOWS
(HVHZ)/(IMPACT)
GLAZING DETAILS

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

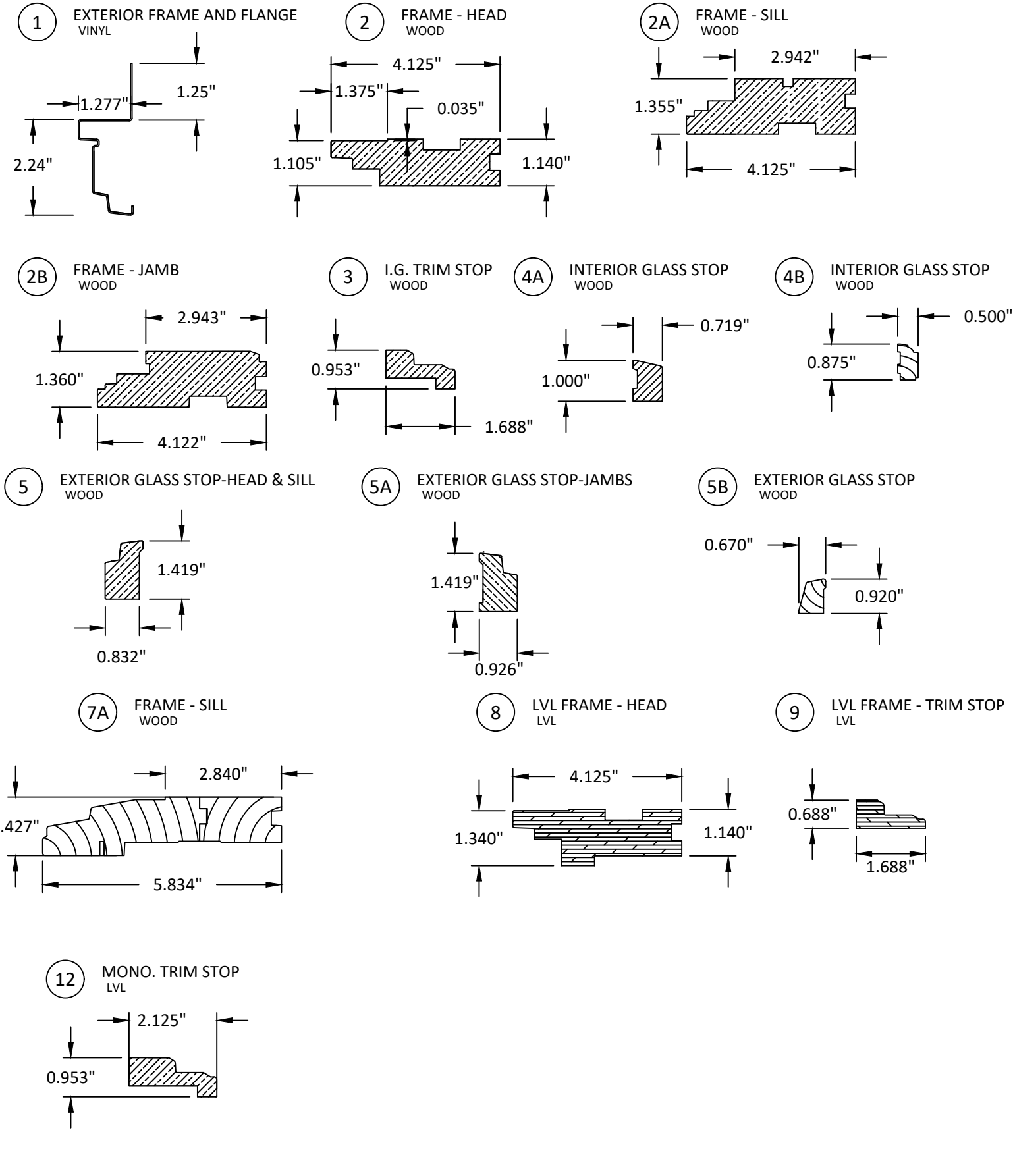
REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.14.15
6TH FBC CODE CHANGE	HR	10.1.17
7TH FBC CODE CHANGE	SR	3.20.20
8TH FBC CODE CHANGE	SH	5.25.23

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 #:	FL15905
DATE:	10.01.17
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD183
SHEET:	6
	OF 7

BILL OF MATERIALS			
NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	EXTERIOR FRAME CLADDING	VINYL	ANDERSEN CORPORATION
2	FRAME - HEAD	WOOD	ANDERSEN CORPORATION
2A	FRAME - SILL	WOOD	ANDERSEN CORPORATION
2B	FRAME - JAMB	WOOD	ANDERSEN CORPORATION
3	I.G. TRIM STOP	WOOD	ANDERSEN CORPORATION
4A	I.G. GLASS STOP-INTERIOR	WOOD	ANDERSEN CORPORATION
4B	I.G. GLASS STOP-INTERIOR	WOOD	ANDERSEN CORPORATION
5	GLASS STOP EXTERIOR	WOOD	ANDERSEN CORPORATION
5A	GLASS STOP EXTERIOR	WOOD	ANDERSEN CORPORATION
5B	GLASS STOP EXTERIOR	WOOD	ANDERSEN CORPORATION
6	EXTERIOR FRAME CLADDING	VINYL	ANDERSEN CORPORATION
7	FRAME - HEAD/JAMB	WOOD	ANDERSEN CORPORATION
7A	FRAME - SILL	WOOD	ANDERSEN CORPORATION
8	LVL FRAME- HEAD	LVL	ANDERSEN CORPORATION
9	LVL FRAME - TRIP STOP	LVL	ANDERSEN CORPORATION
10	INTERIOR LVL GLASS STOP	LVL	ANDERSEN CORPORATION
11	EXTERIOR LVL GLASS STOP	LVL	ANDERSEN CORPORATION
12	MONO. TRIM STOP	LVL	ANDERSEN CORPORATION



- NOTES:
- A. ALL WOOD TO BE PONDEROSA PINE OR EQUIVALENT. MINIMUM SPECIFIC GRAVITY OF 0.40.
 - B. LVL FRAME MATERIAL COMPLIES WITH APPLICABLE FBC STANDARDS FOR STRUCTURAL COMPOSITE LUMBER.



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COMPONENTS & BILL OF MATERIALS

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7

OF 7