

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION UNLESS OTHERWISE SPECIFIED.
- 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 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 1/4 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION THROUGH METAL STUD USE 1/4 INCH DIAMETER SELF-DRILLING SCREWS, GR. 5 OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
- FOR INSTALLATION THROUGH ALUMINUM USE 1/4 INCH DIAMETER SELF-DRILLING SCREWS, GR. 5 OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND 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.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- 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.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM 0.067 INCH THICK, 6063-T5 ALUMINUM.
- INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEMS.

YKK AP America Inc.

YOW 225 H NON-THERMAL ALUMINUM CASEMENT WINDOW (WZ3) (IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-22
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING 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. DOCUMENTS SHALL BE APPROVED BY AUTHORITY HAVING JURISDICTION (AHJ)
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- WHEN USED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION THIS PRODUCT COMPLIES WITH CHAPTER 16 OF THE CURRENT FLORIDA BUILDING CODE AND **DOES REQUIRE** AN IMPACT RESISTANT COVERING IN WIND ZONE 4.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
- ALL STRUCTURAL MATERIALS & DISSIMILIAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 12 FOR GLAZING DETAILS.
- GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT FBC, CHAPTER 24.
- GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
- GLAZING GASKETS SHALL MEET THE MINIMUM PERFORMANCE REQUIREMENTS AS APPLICABLE IN CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

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DESIGN PRESSURE TABLE		
GLAZING TYPES	MAX. DP	IMPACT RATING
A, B, C	+65/-65 PSF	LMI
D, E	+65/-65 PSF	SMI

- NOTE:
- LMI - LARGE MISSILE IMPACT RATED
 - SMI - SMALL MISSILE IMPACT RATED
 - SEE SHEET 12 FOR GLAZING DETAILS
 - REFER TO SHEET 3 FOR HARDWARE SCHEDULE & APPROVED SIZES



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TITLE:
YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.

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MIAMI, FL 33132

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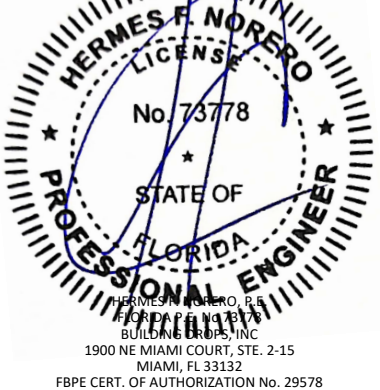
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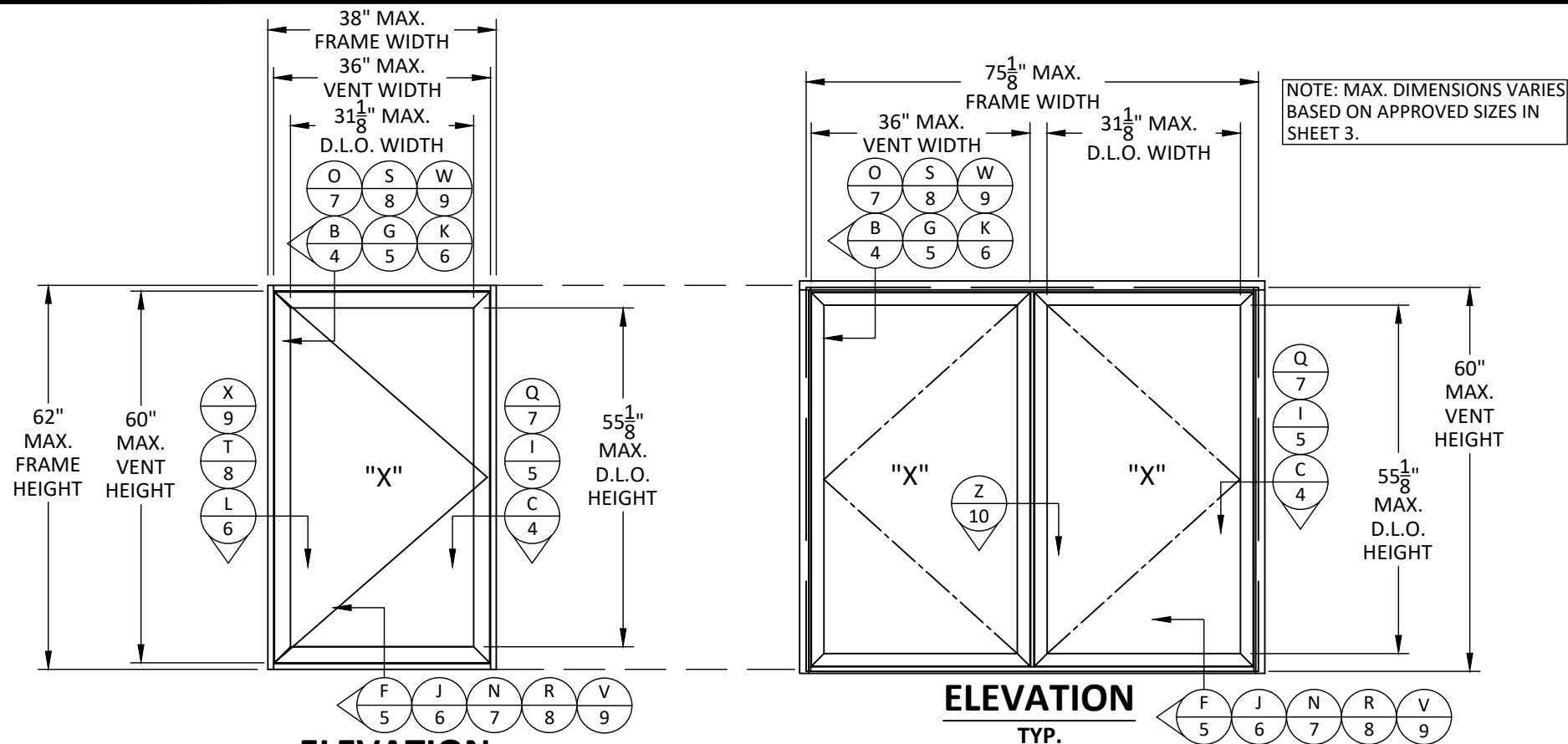
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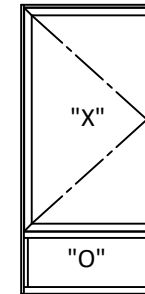
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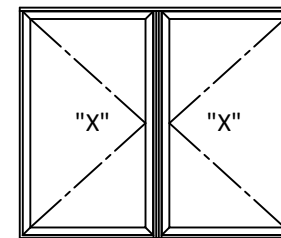
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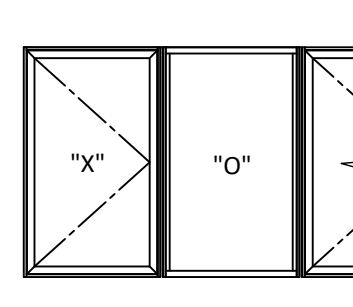
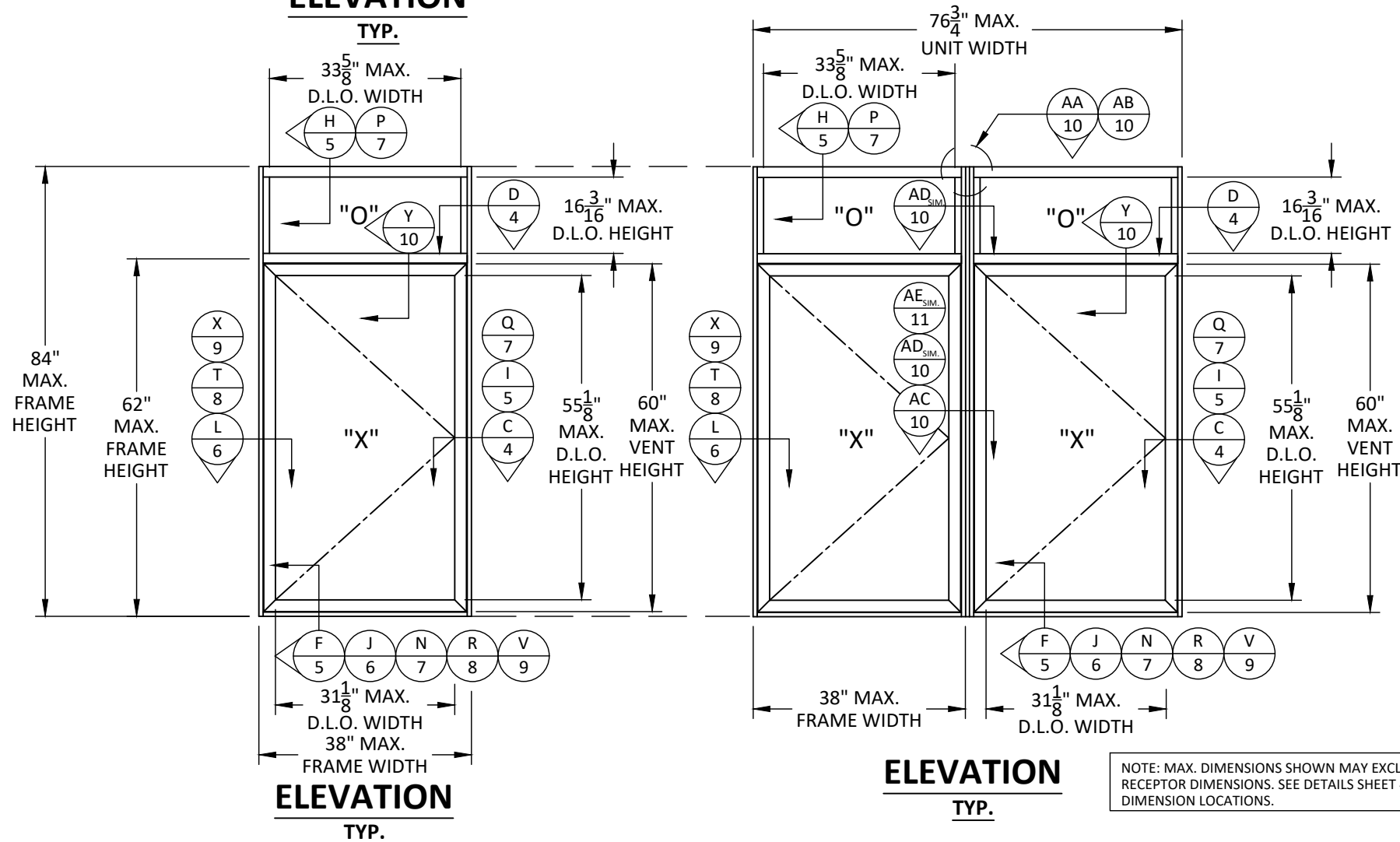
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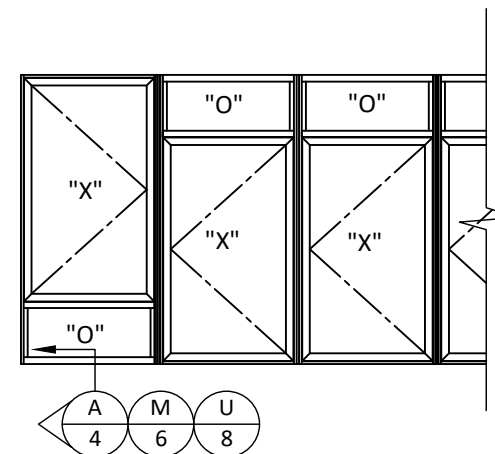
NOTE: UNITS MAY UTILIZE INTEGRAL MULLS FOR FIXED OVER CASEMENT OR CASEMENT OVER FIXED CONFIGURATIONS



NOTE: LEFT HAND & RIGHT HAND UNITS ARE INTERCHANGABLE. DETAILS SHALL BE SIMILAR TO THOSE SHOWN HEREIN.



NOTE: UNITS MAY BE MULLED SIDE BY SIDE IN COMBINATIONS OF CASEMENT/FIXED, CASEMENT/CASEMENT, CASEMENT/PROJECT OUT, AND/OR OTHER APPROVED PRODUCTS. MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL. FIXED WINDOWS AND OTHER ALTERNATE WINDOW TYPES UNDER SEPARATE APPROVAL.



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ELEVATIONS & QUALIFIED CONFIGURATIONS

PREPARED BY:
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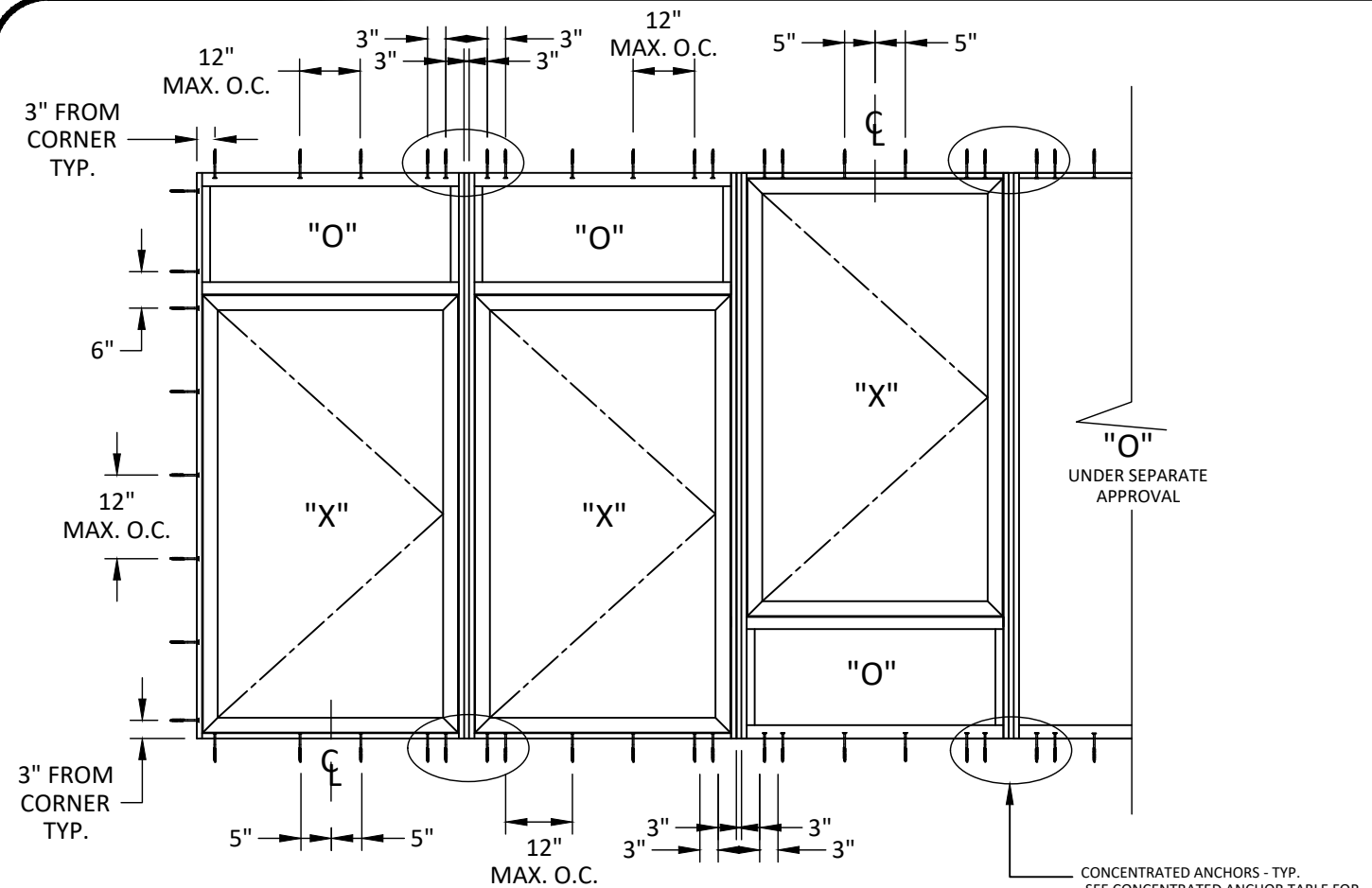


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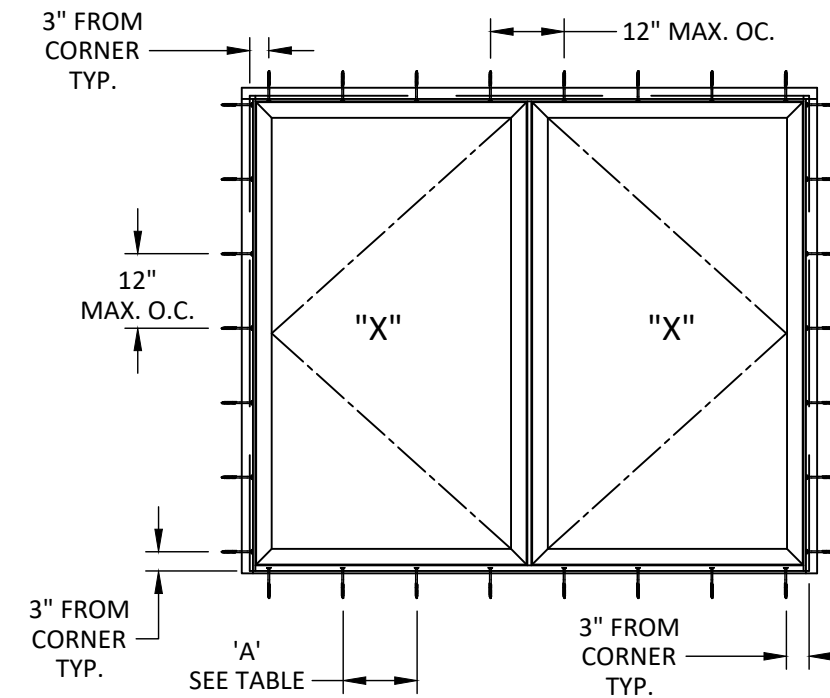
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ANCHOR LAYOUT
ALL INSTALLATIONS



ANCHOR LAYOUT
FRENCH CASEMENT
ALL INSTALLATIONS

CONCENTRATED ANCHOR TABLE

DESIGN PRESSURE (+/- PSF)	MIN. QTY REQUIRED AT EA. END OF STACK MULL*	MIN. QTY REQUIRED AT SILL OF STACK MULL FOR RECEPTOR INSTALLATION**
40	2	4
65	4	6

NOTE:
* QUANTITY OF ANCHORS IS THE MINIMUM REQUIRED QUANTITY OF ANCHORS ADJACENT TO EA. SIDE OF STACK MULLION. ANCHORS SHALL BE SPACED 3" O.C. TO EA. SIDE OF MULL. APPLICABLE TO RECEPTOR AT HEAD ONLY, CLIP, STRAP, AND THROUGH FRAME INSTALLATIONS.
** QUANTITY OF ANCHORS IS THE MINIMUM REQUIRED QUANTITY OF ANCHORS THROUGH THE RECEPTOR SILL (SEE TYP. DETAIL A/4) ADJACENT TO EA. SIDE OF STACK MULL. ANCHORS SHALL BE SPACED 3" O.C. TO EA. SIDE OF MULL.

SPACING AT SILL

DIM.	O.C. SPACING FOR THRU FRAME, STRAP, OR CLIP INSTALLATION	O.C. SPACING FOR RECEPTOR (ITEM #7) INSTALLATION
A	12"	9 3/8"

BUTT HINGE SCHEDULE

NUMBER OF REQUIRED BUTT HINGES	VENT HEIGHT (H)
4	78" > H > 72"
3	72" > H > 44"
2	44" > H

NOTE: MAX. SPACING BETWEEN HINGES IS 28". HINGES 8" FROM CORNERS TYP.

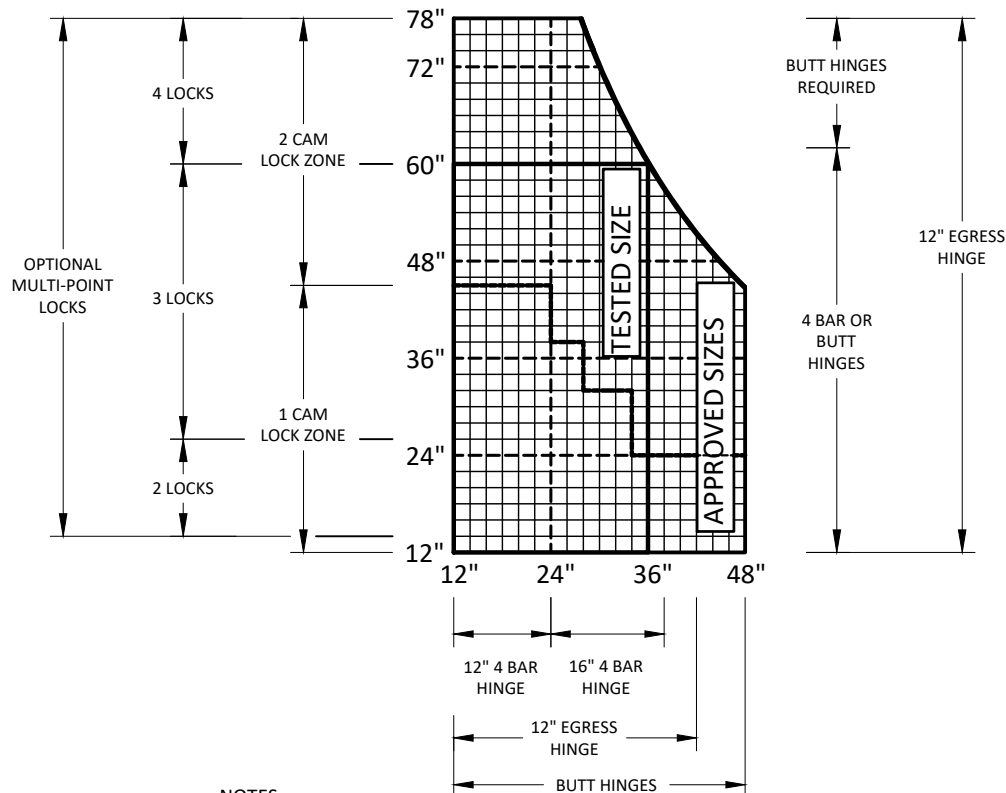
MULTI-POINT SCHEDULE

NUMBER OF REQUIRED LOCK ENGAGEMENTS	VENT HEIGHT (H)
4	78" > H > 60"
3	60" > H > 26"
2	26" > H > 14"

NOTE: MAX. SPACING BETWEEN LOCK POINTS IS 24".

MAX DESIGN PRESSURE PER GLASS TYPE (PSF)					
NOMINAL VENT DIMS.		TYPE D & E		TYPES A, B & C	
WIDTH (in.)	HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
28	78	65.0	65.0	65.0	65.0
30	72	65.0	65.0	65.0	65.0
32	68	65.0	65.0	65.0	65.0
34	64	65.0	65.0	65.0	65.0
36	60	65.0	65.0	65.0	65.0
38	57	65.0	65.0	64.7	64.7
40	54	65.0	65.0	65.0	65.0
42	51	65.0	65.0	65.0	65.0
44	49	65.0	65.0	65.0	65.0
46	47	65.0	65.0	65.0	65.0
48	45	65.0	65.0	65.0	65.0

APPROVED OUTSWING VENT SIZES



NOTES:

- VENT SIZES SHOWN IN DIAGRAM ABOVE ARE APPROVED FOR USE AT +65 / -65 PSF.
- MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL.
- VENT SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
- FRAME SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
- 1 CAM AND 2 CAM LOCK ZONE REPRESENTS SIZES WHICH MAY USE ONLY 1 CAM LOCK INSTEAD OF 2 AS-TESTED. SEE HARDWARE SCHEDULE FOR ALTERNATE MULTI-POINT LOCK HARDWARE REQUIREMENTS.
- GLASS TYPE SHALL COMPLY WITH THE TABLE BELOW.
- UNITS SHALL FOLLOW HARDWARE REQUIREMENTS SHOWN TO ABOVE.

OUTSWING HARDWARE SCHEDULE

HARDWARE TYPE	OPTION#	DESCRIPTION
LOCK OPTIONS	1	BRONZECRAFT CAM HANDLES (E1-1541/1542) AT LOCK STILE OF VENT, 8" FROM EA. END SECURED WITH (2) #10 X 1/2" FH SMS. BRONZECRAFT KEEPERS (E1-519) SECURED WITH (2) #10 X 1/2" FH SMS.
	2	MULTI-POINT LOCK ASSEMBLY (E1-1505 OR E1-1966 OR E1-1994, E1-1954, E1-1955, E1-1952, E9-4593), SEE MULTI-POINT TABLE FOR REQUIRED LOCK POINT SCHEDULE. LOCK KEEPERS (E1-1954, E1-1955) SECURED WITH (2) #10 X 1/2" FH SMS.
HINGE OPTIONS	1	BUTT HINGE (E1-1714/1715), EA. HINGE FASTENED TO FRAME WITH (3) #10-24 X 7/16" PL PH MS AND TO L-ANGLE WITH (3) #10-24 X 7/16" PL PH MS. L-ANGLE SECURED TO VENT WITH (3) #10-24 X 1/2" PL PH SMS. SEE BUTT HINGE SCHEDULE FOR REQUIRED QUANTITIES.
	2	16", 4-BAR HINGE (4K-14208) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS. SEE SNUBBER SCHEDULE FOR REQUIRED QUANTY OF SNUBBERS.
	3	12", 4-BAR HINGE (4K-14207) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS.
	4	12", 4-BAR EGRESS HINGE ASSEMBLY (E1-1957/1960) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS. SEE SNUBBER SCHEDULE FOR REQUIRED QUANTITY OF SNUBBERS.



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CASEMENT WINDOW
(WZ3) (IMPACT)
ANCHOR LAYOUTS, HARDWARE
SCHEDULE & APPROVED SIZES

PREPARED BY:

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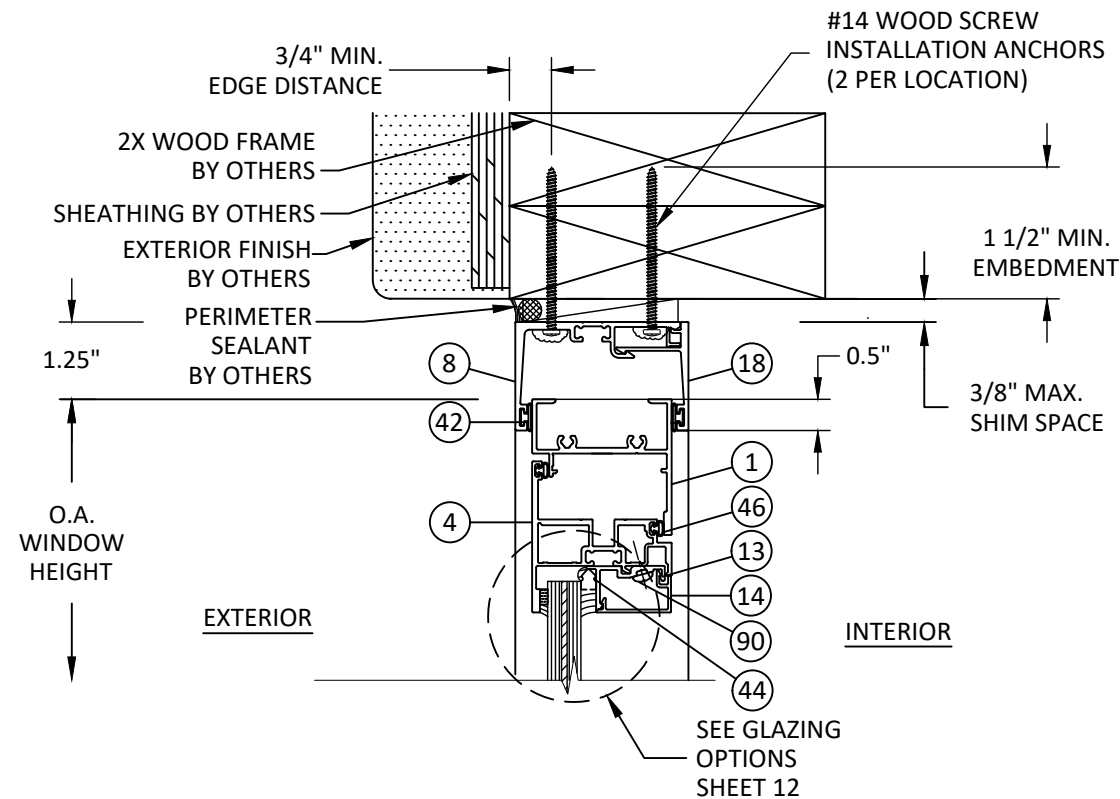
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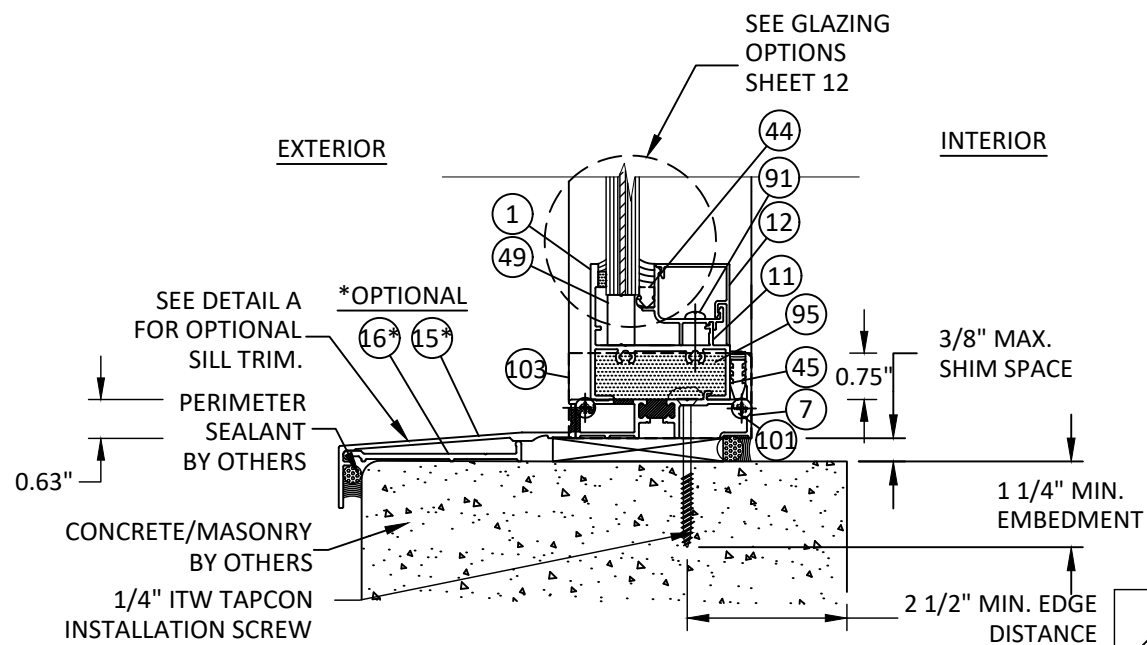


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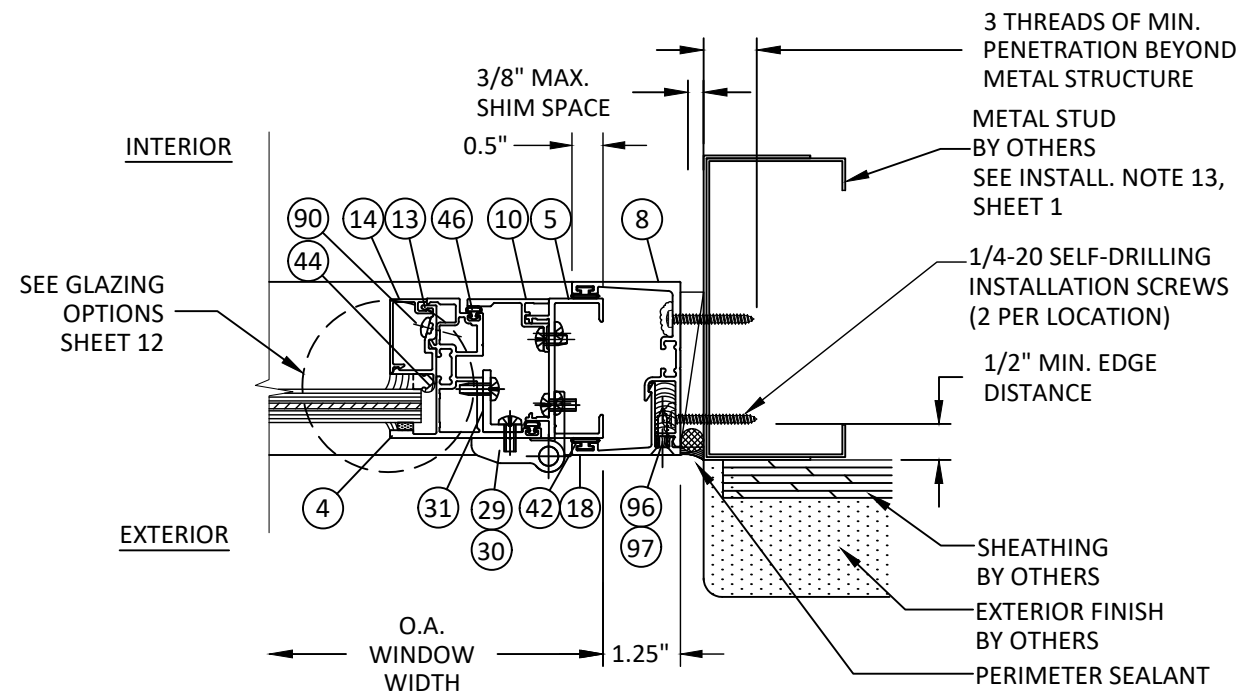
B
4 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
INT. SET RECEPTOR - TYP.



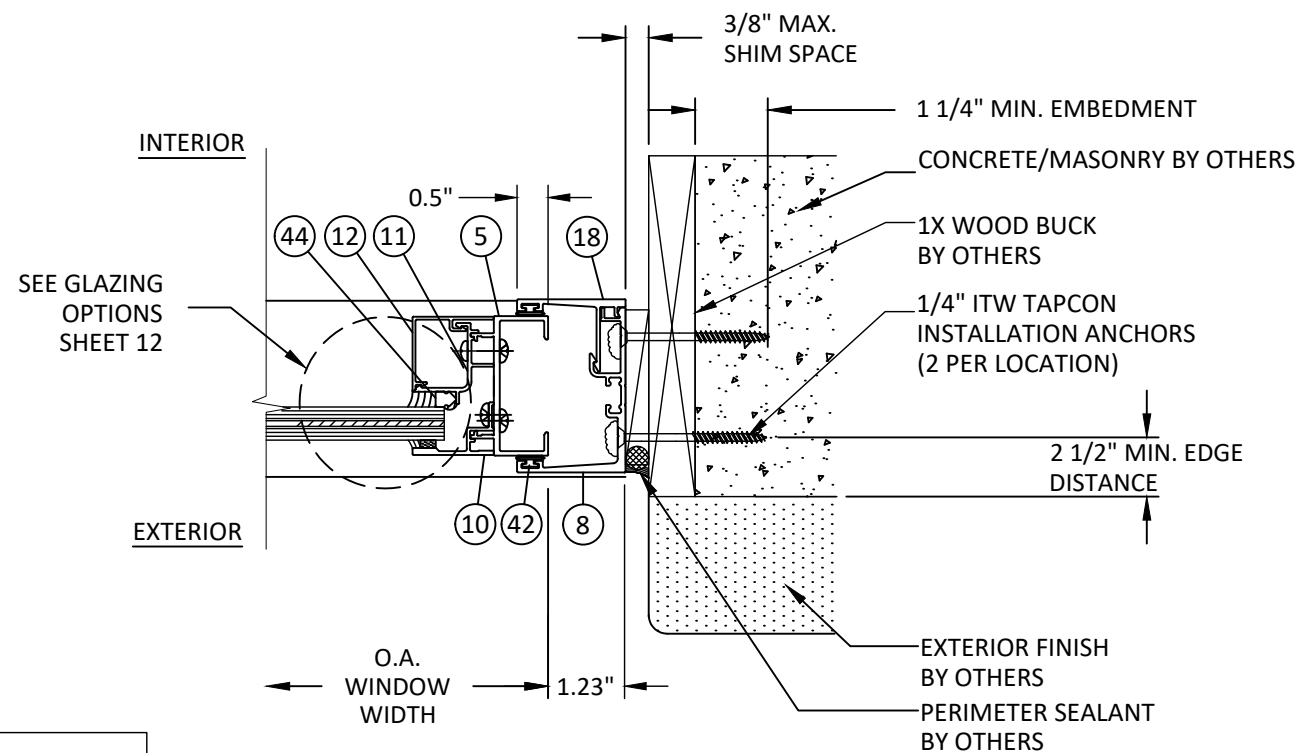
A
4 **VERTICAL SECTION**
FIXED SILL - CONCRETE/MASONRY
RECEPTOR & SILL FLASHING - TYP.



**OPTIONAL SILL TRIM
DETAIL A**



C
4 **HORIZONTAL SECTION**
VENT JAMB - METAL STUD FRAME
INT. SET RECEPTOR - TYP.



D
4 **HORIZONTAL SECTION**
FIXED JAMB - 1X/CONCRETE/MASONRY
EXT. SET RECEPTOR - TYP.

NOTE: UNITS MAY BE INTERIOR OR
EXTERIOR SET INSTALLATIONS. ITEMS
#96 & 97 NOT REQUIRED FOR INTERIOR
SET INSTALLATIONS.



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YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)

RECEPTOR INSTALLATION DETAILS

PREPARED BY:
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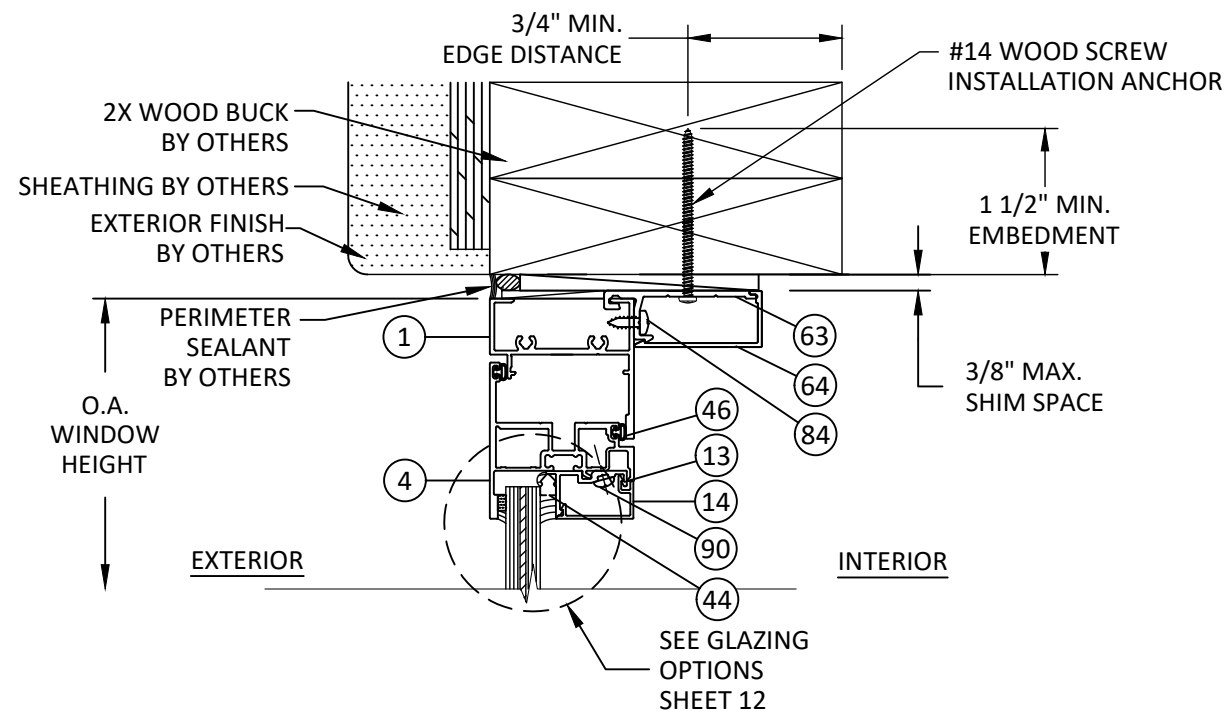
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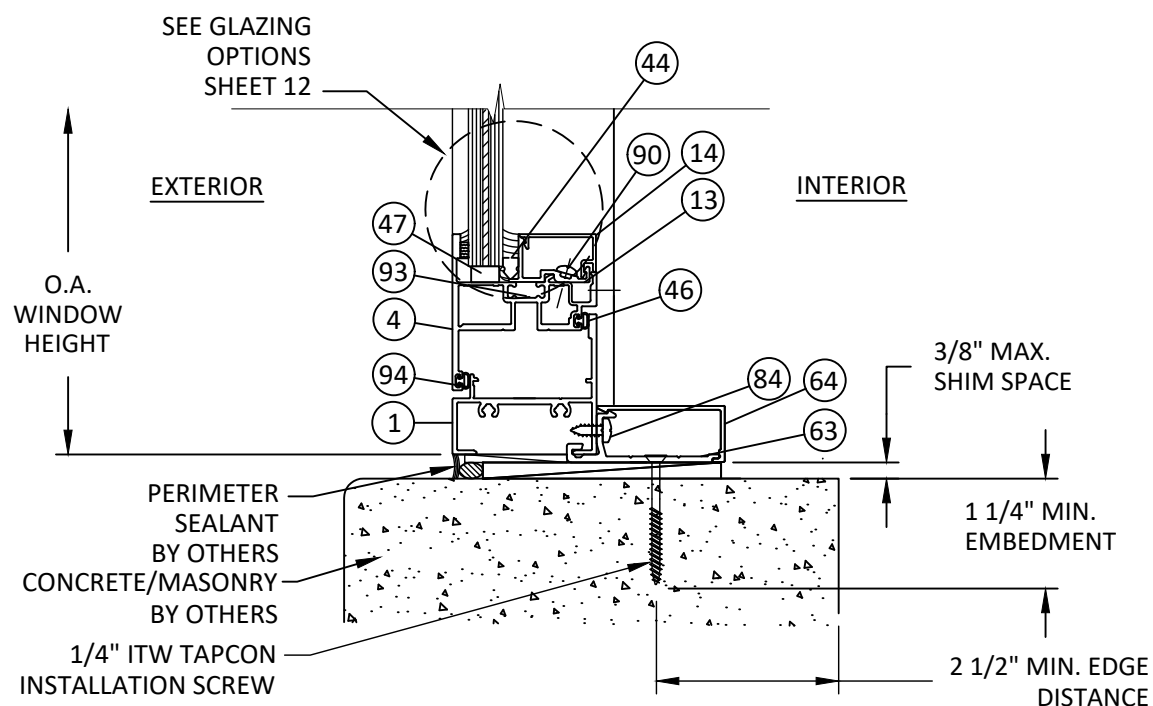
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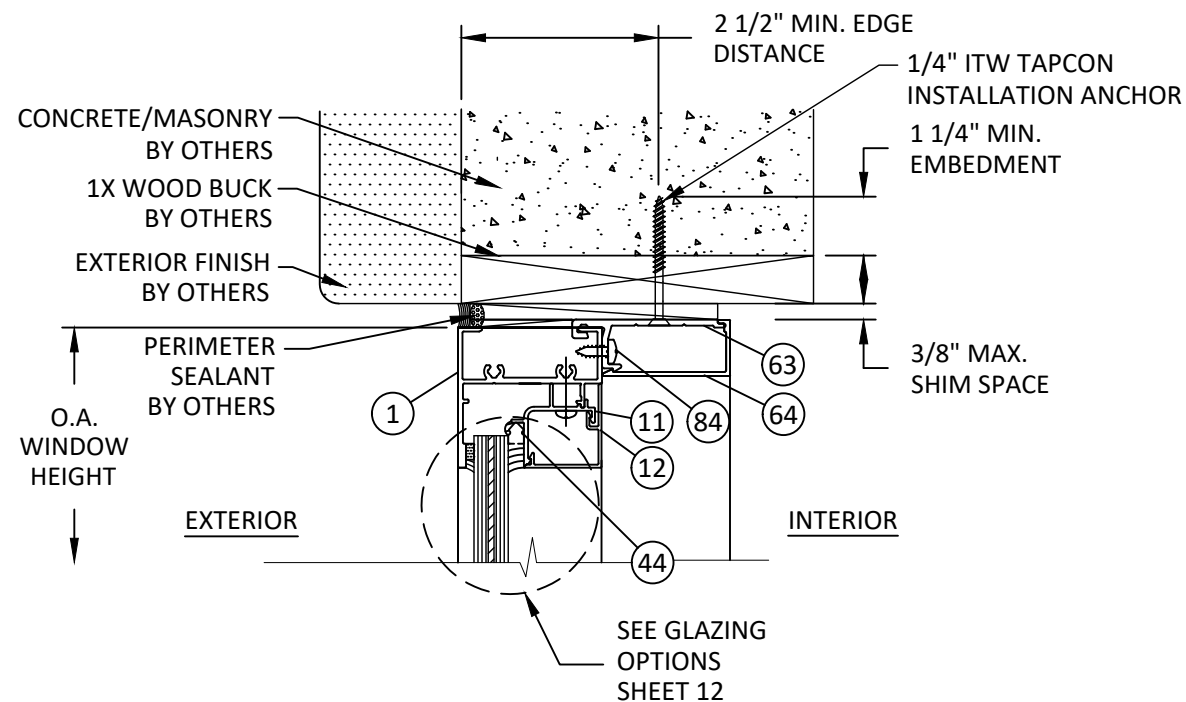
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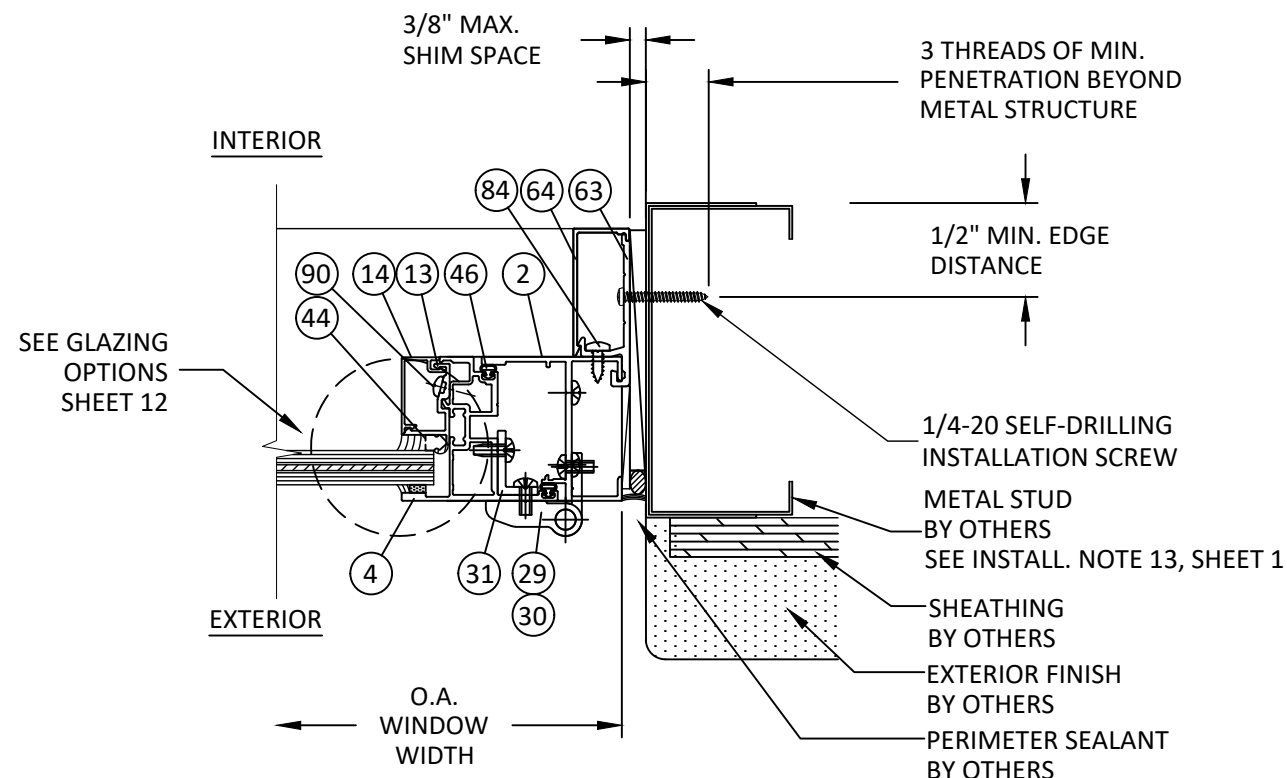
G
5 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
CLIP ANCHOR - TYP.



F
5 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
CLIP ANCHOR - TYP.



H
5 **VERTICAL SECTION**
FIXED HEAD - 1X/CONCRETE/MASONRY
CLIP ANCHOR - TYP.



I
5 **HORIZONTAL SECTION**
VENT JAMB - METAL STUD FRAME
CLIP ANCHOR - TYP.



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CLIP INSTALLATION DETAILS

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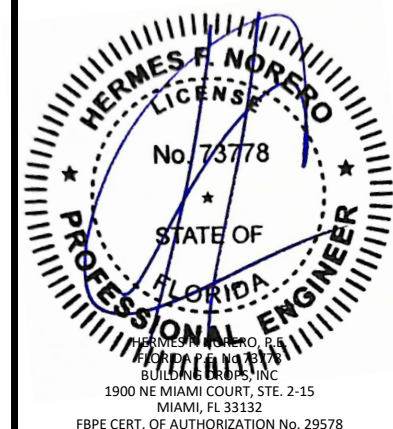
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FL #:

FL16312

DATE: **10.16.17**

DWG. BY:
AR

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK176**

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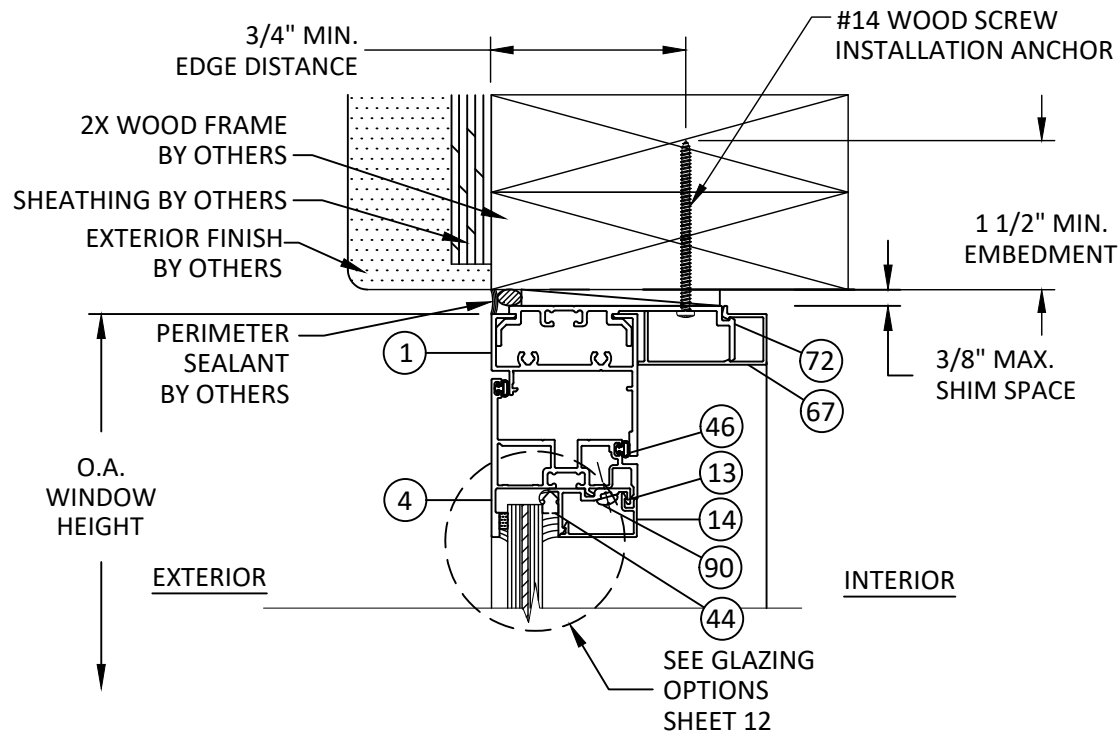
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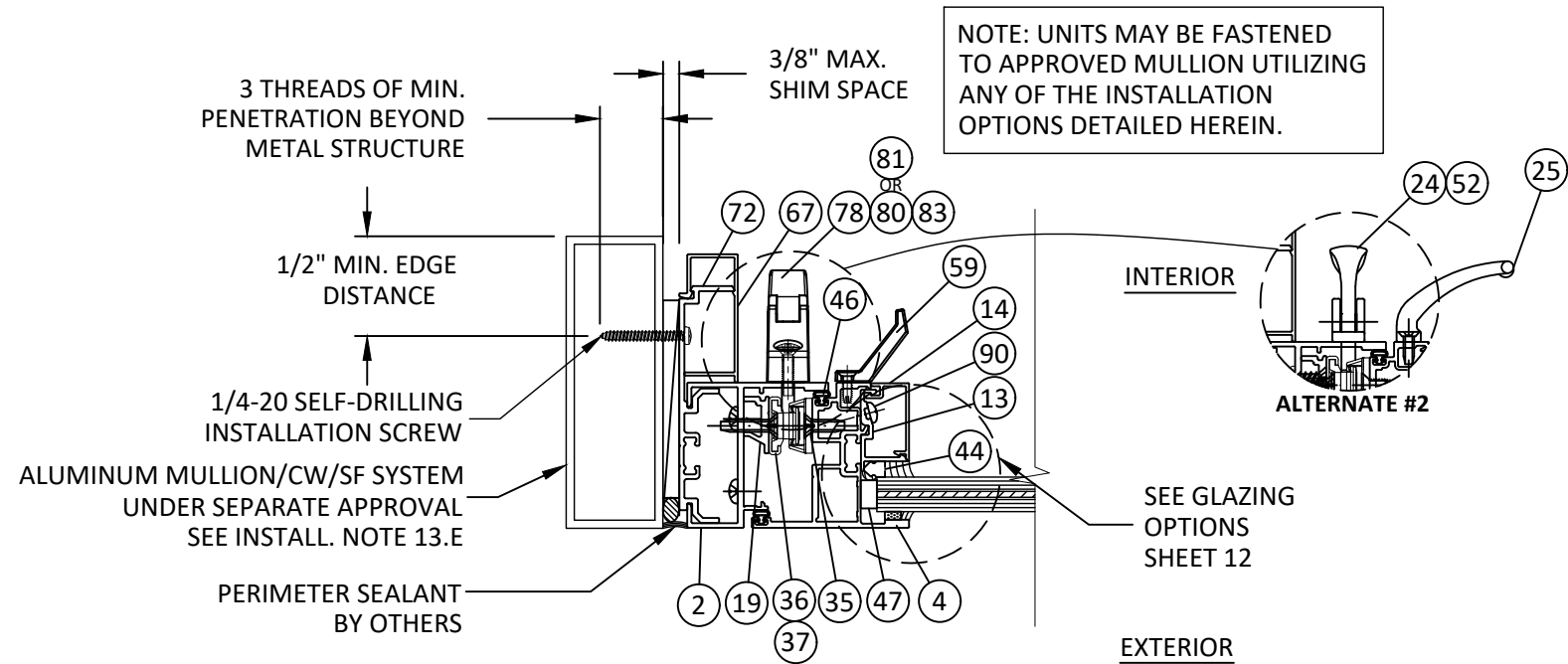
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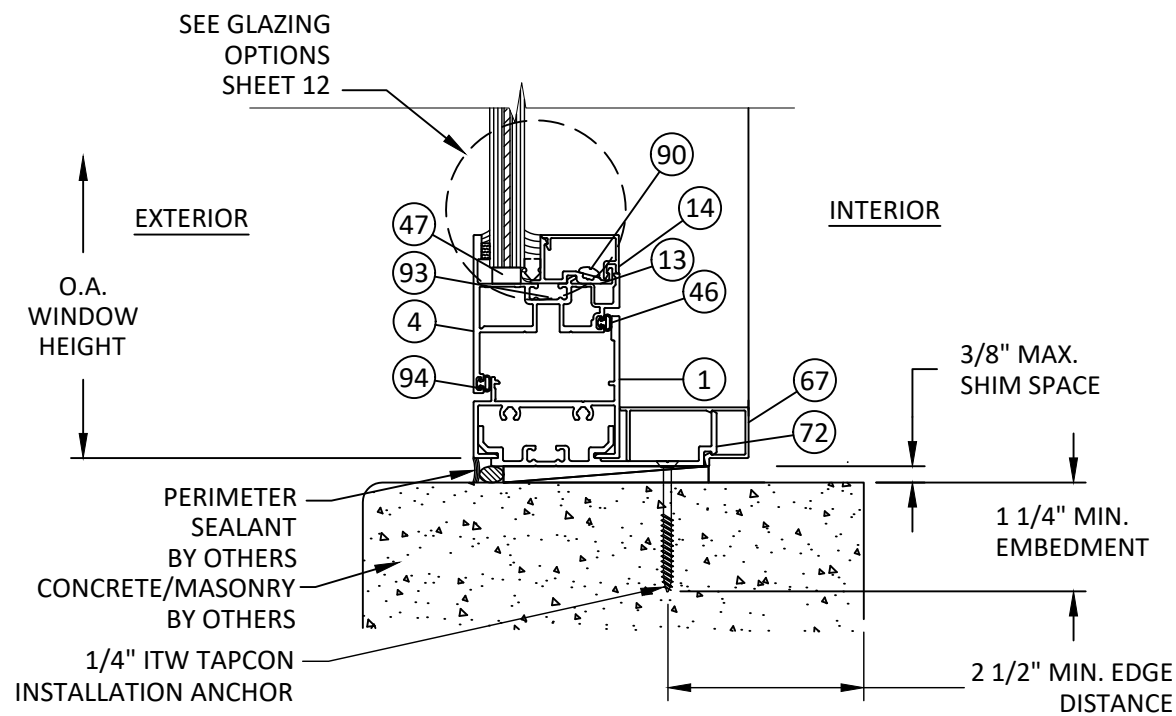
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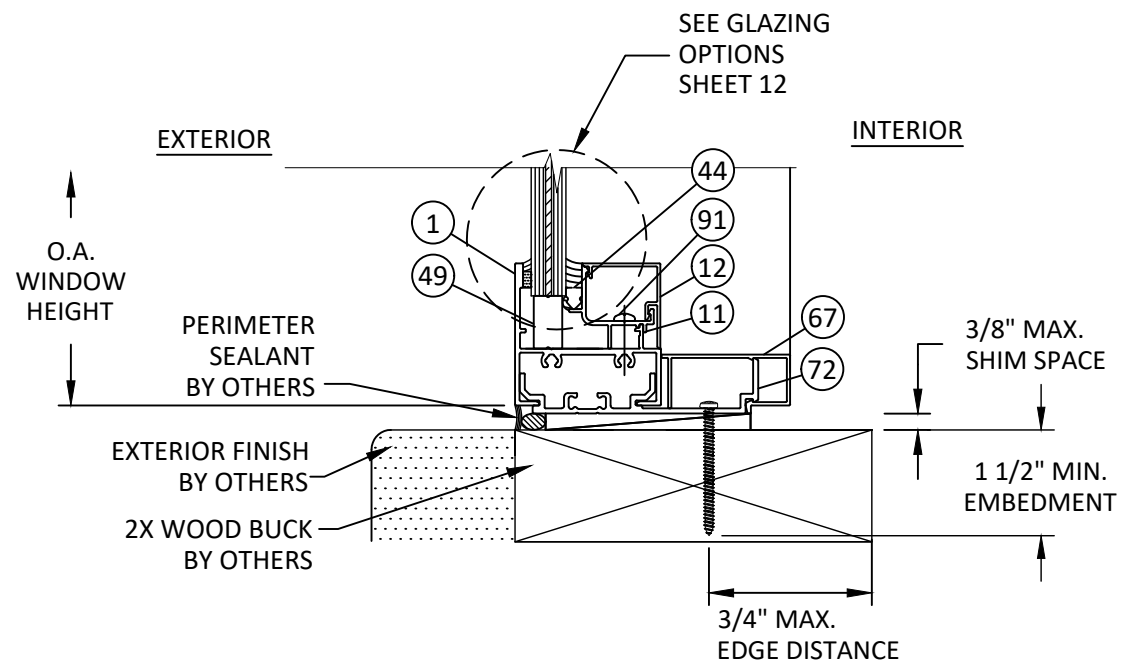
K
6 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP.



L
6 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
STRAP ANCHOR - TYP.
ALTERNATE #1



J
6 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
STRAP ANCHOR - TYP.



M
6 **VERTICAL SECTION**
FIXED SILL - 2X WOOD BUCK
STRAP ANCHOR - TYP.

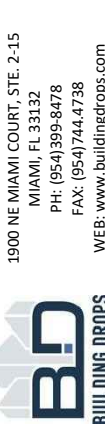


YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)

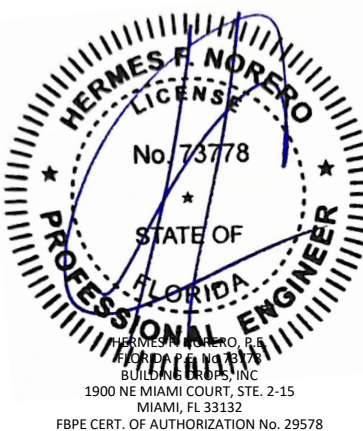
STRAP INSTALLATION DETAILS

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



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MISC. UPDATE	SH	02.26.24
2026 FBC CODE UPDATE	SH	07.30.26

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DWG. BY: **AR** CHK. BY: **HFN**

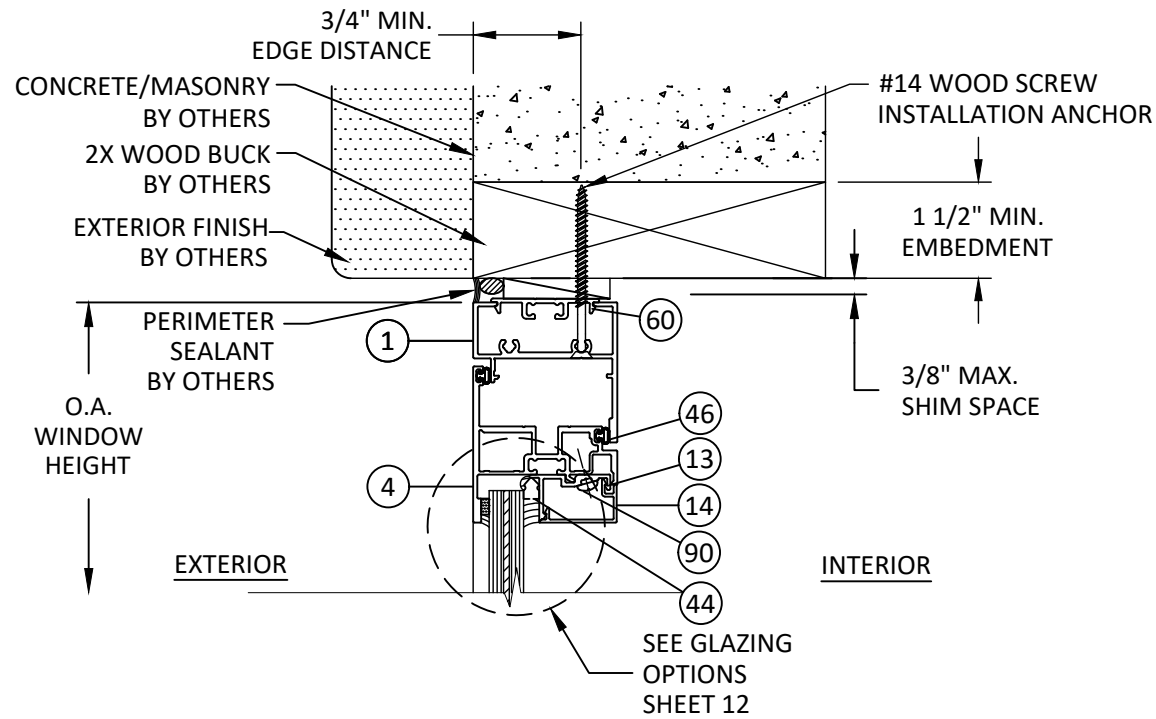
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DWG. #: **YKK176**

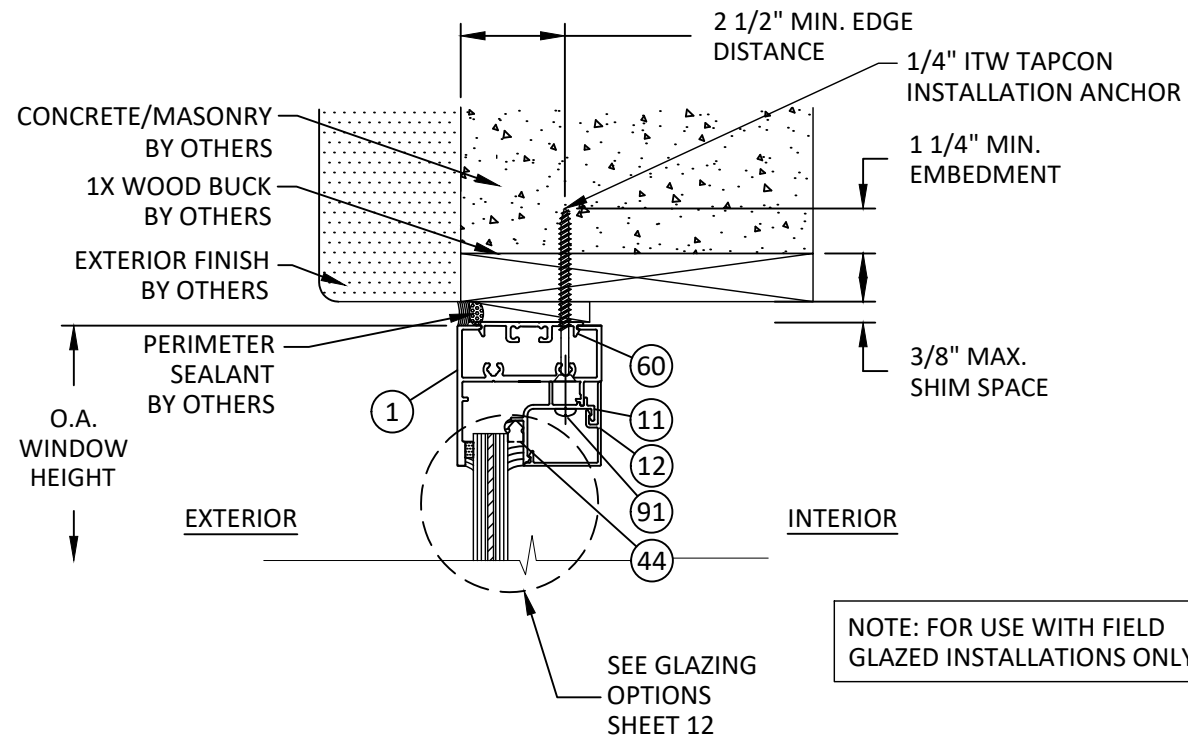
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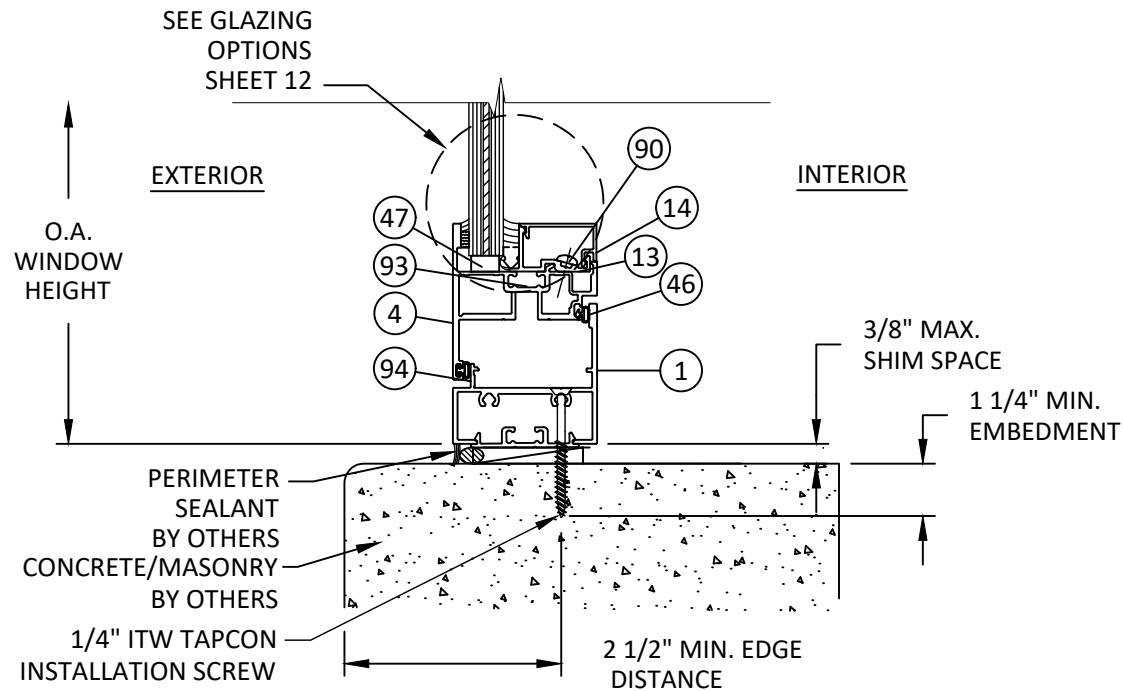
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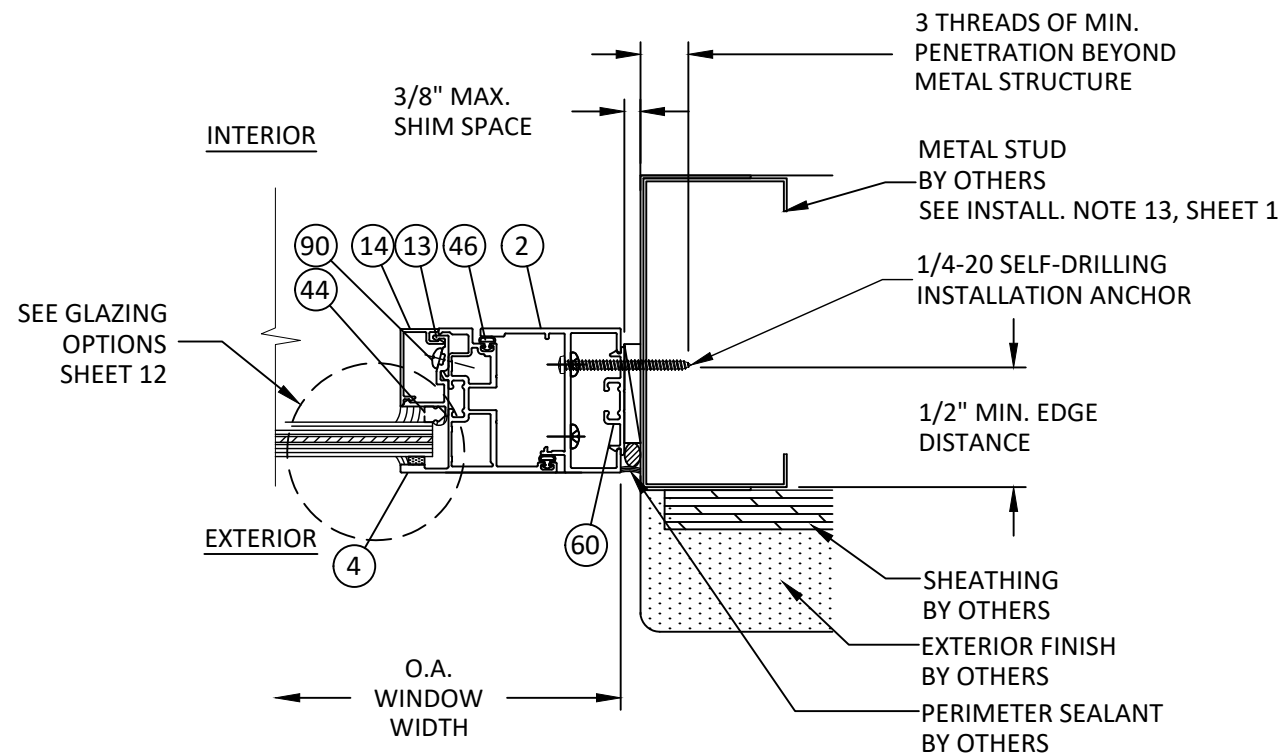
O7 VERTICAL SECTION
VENT HEAD - 2X WOOD BUCK
THROUGH FRAME - TYP.



P7 VERTICAL SECTION
FIXED HEAD - 1X/CONCRETE/MASONRY
THROUGH FRAME - TYP.



N7 VERTICAL SECTION
VENT SILL - CONCRETE/MASONRY
THROUGH FRAME - TYP.



Q7 HORIZONTAL SECTION
VENT JAMB - METAL STUD FRAME
THROUGH FRAME - TYP.



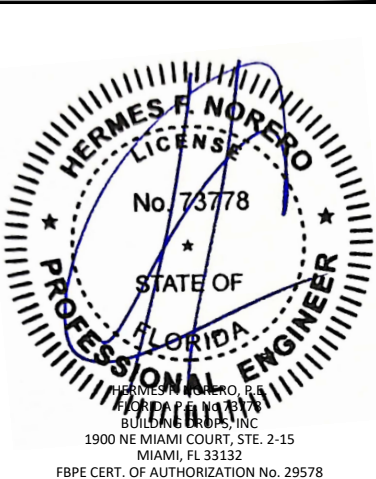
YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)
THROUGH FRAME
INSTALLATION DETAILS

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

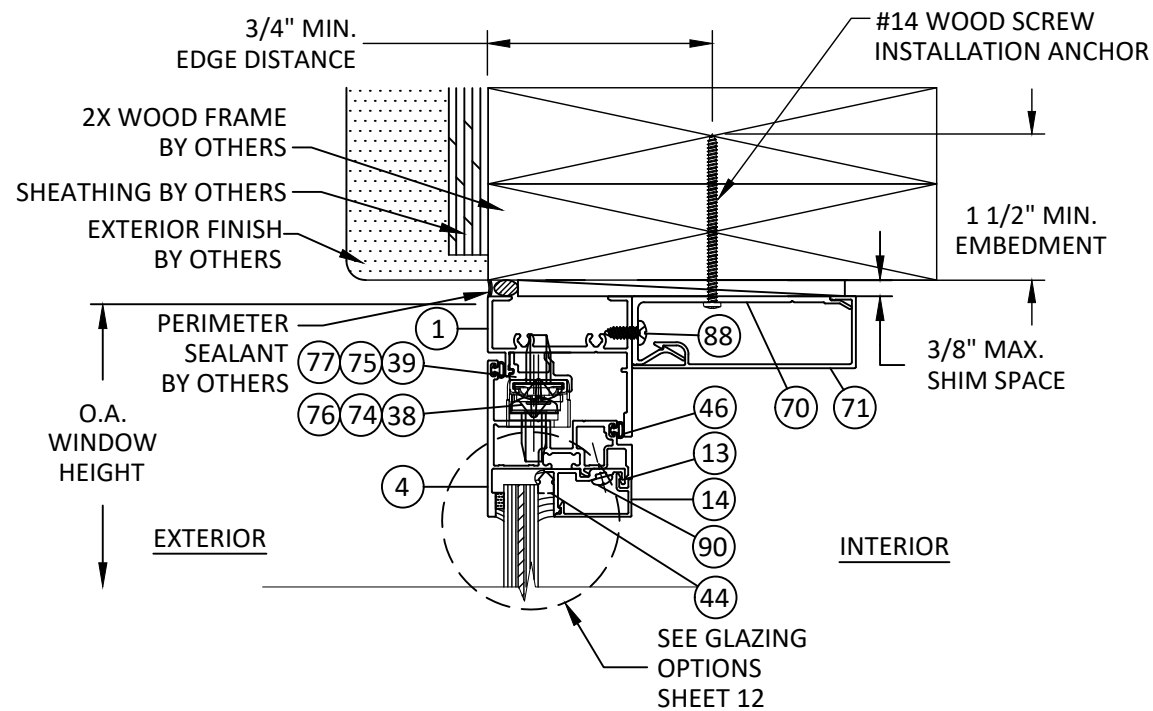
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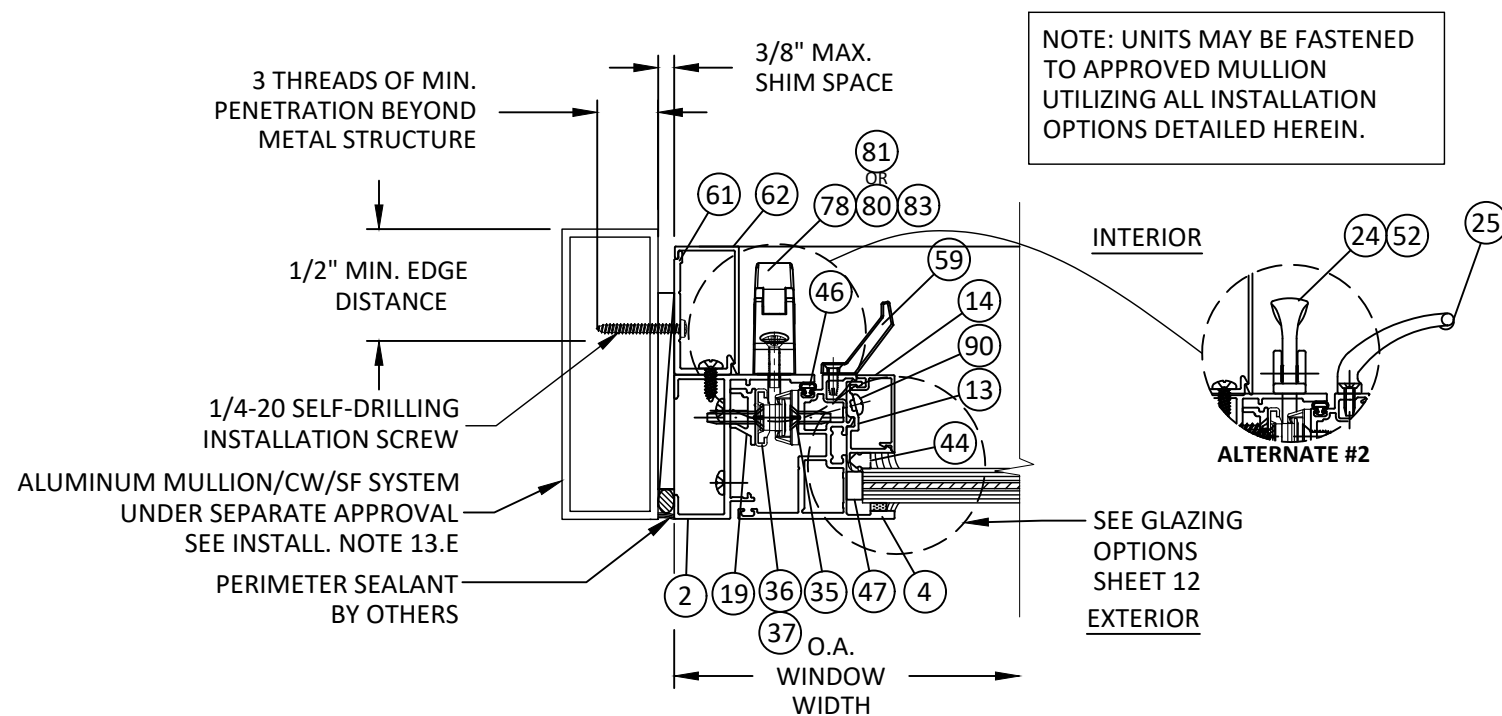


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SCALE:	NTS
DWG. #:	YKK176
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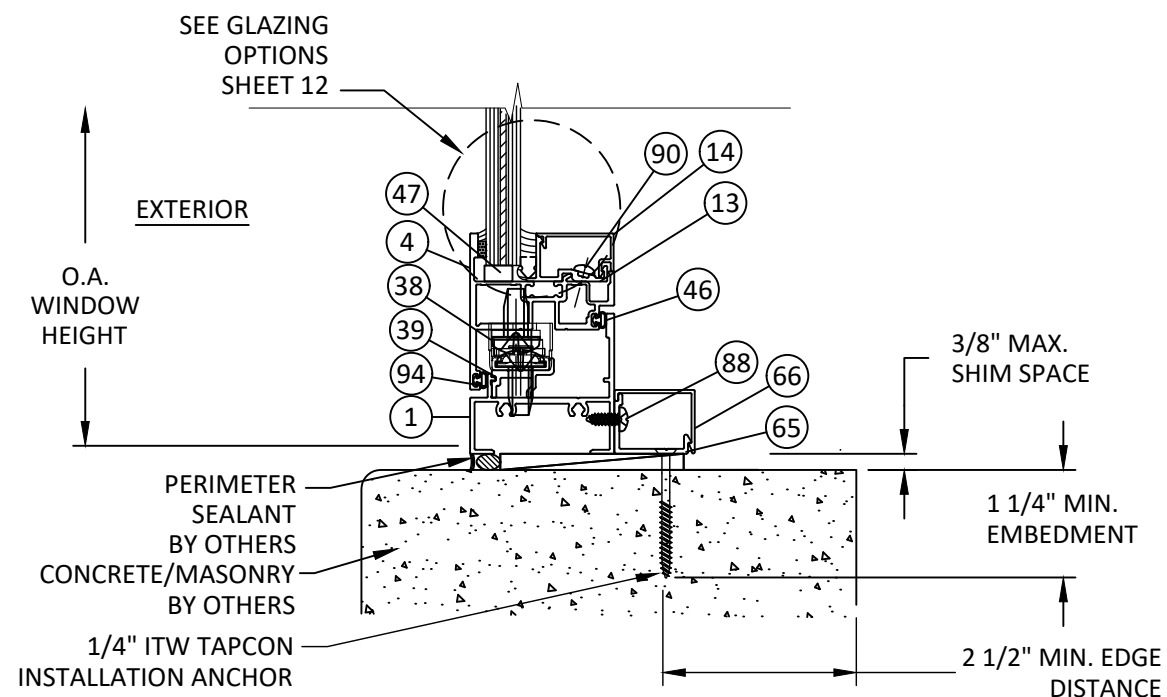
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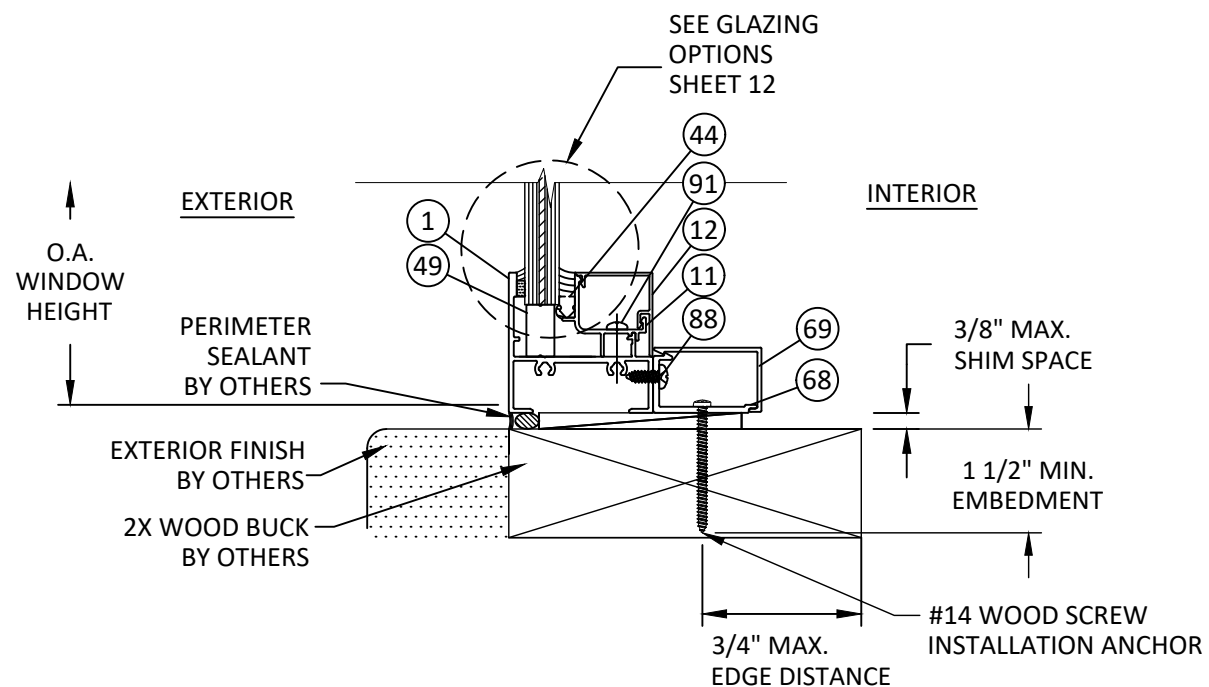
S
8 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TRIM CLIP ANCHOR - TYP.



T
8 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
TRIM CLIP ANCHOR - TYP.
ALTERNATE #1



R
8 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
TRIM CLIP ANCHOR - TYP.



U
8 **VERTICAL SECTION**
FIXED SILL - 2X WOOD BUCK
TRIM CLIP ANCHOR - TYP.



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TITLE:
YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)

TRIM & CLIP ANCHOR INSTALLATION

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132

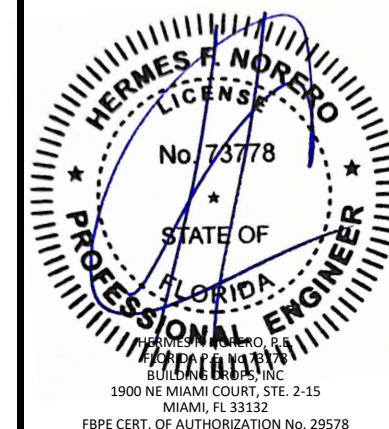
PH: (954)399-8478
FAX: (954)744-4738

WEB: www.buildingdrops.com



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CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK176**

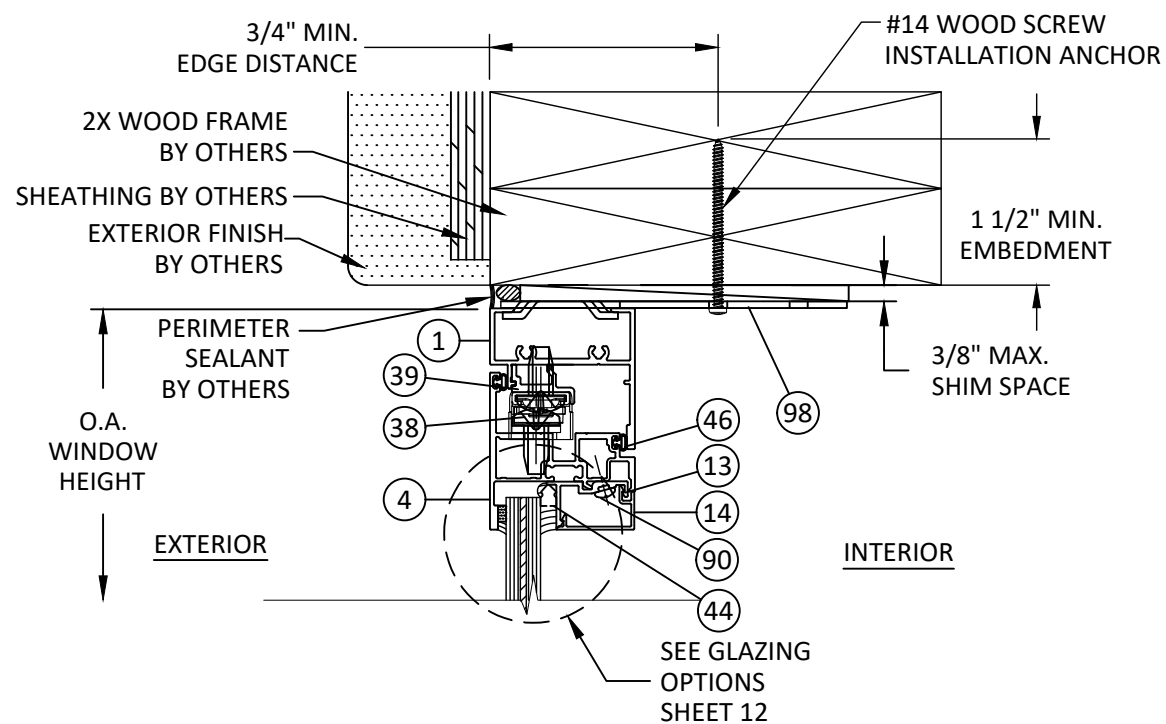
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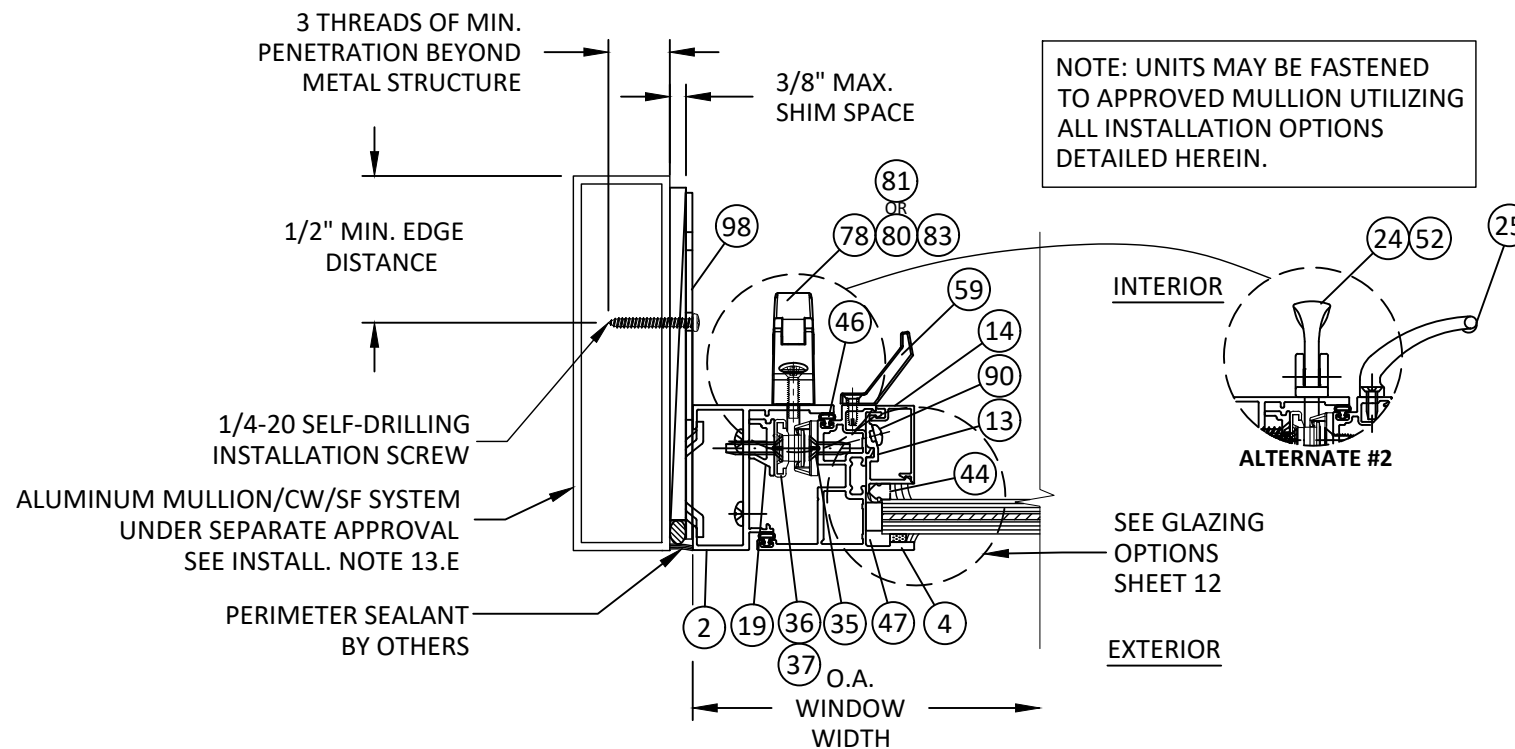
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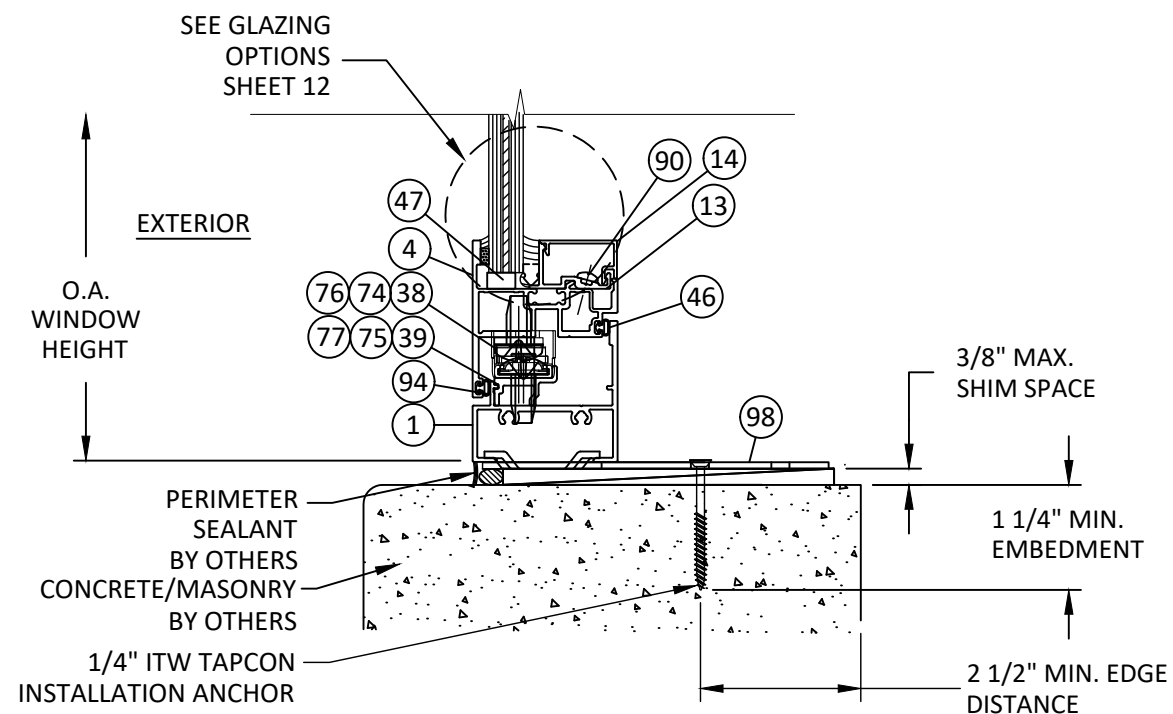
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W
9 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TWIST ANCHOR - TYP.



X
9 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
TWIST ANCHOR - TYP.
ALTERNATE #1



V
9 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
TWIST ANCHOR - TYP.



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TITLE:
YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)

TWIST ANCHOR DETAILS

PREPARED BY:

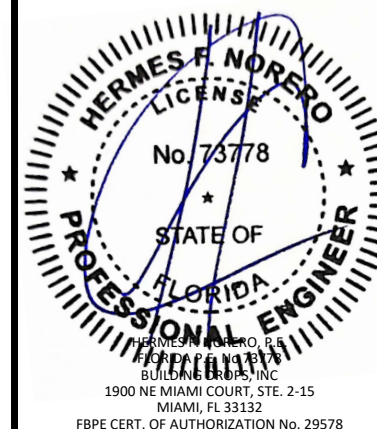
BUILDING DROPS, INC.

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MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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SHEET:

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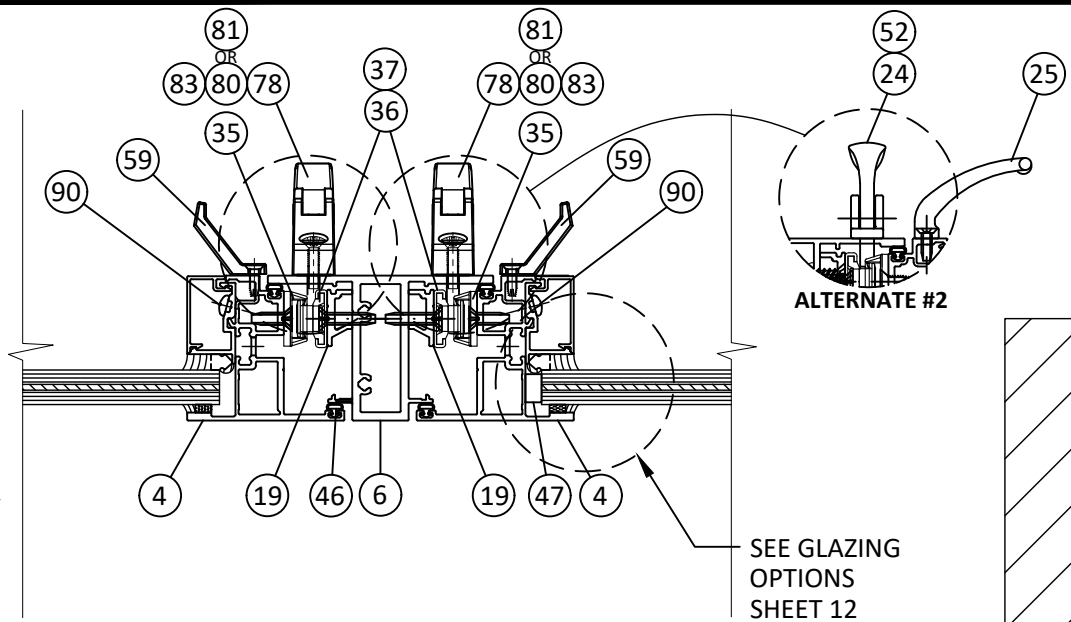
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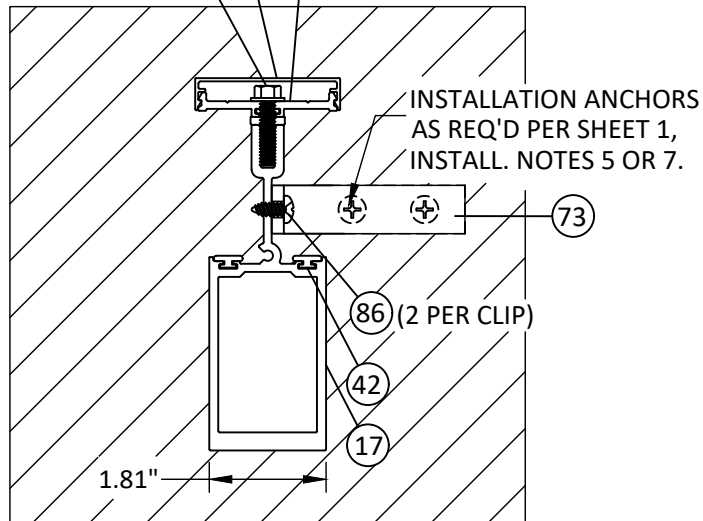
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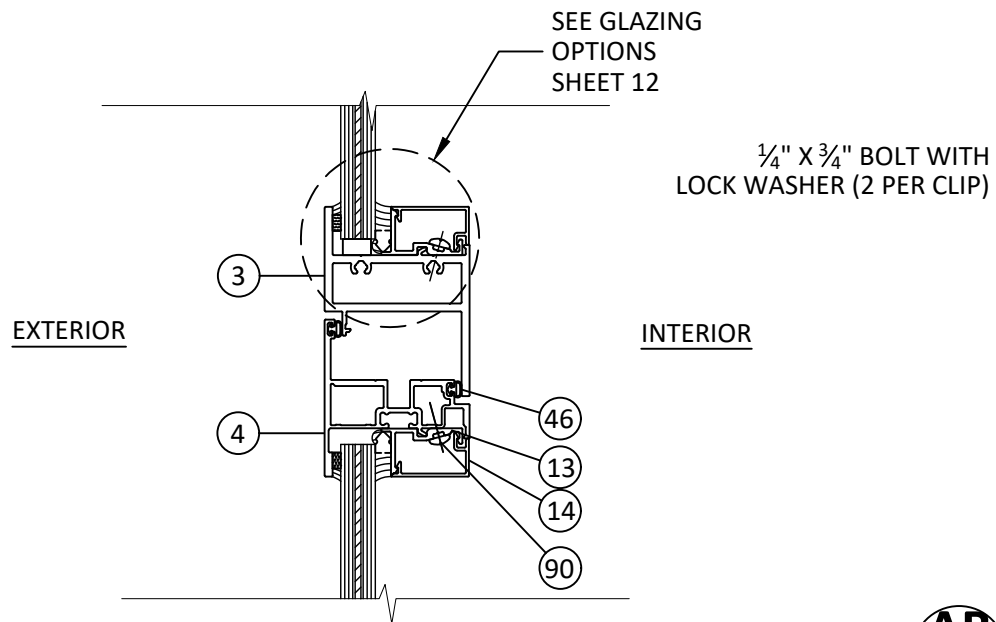
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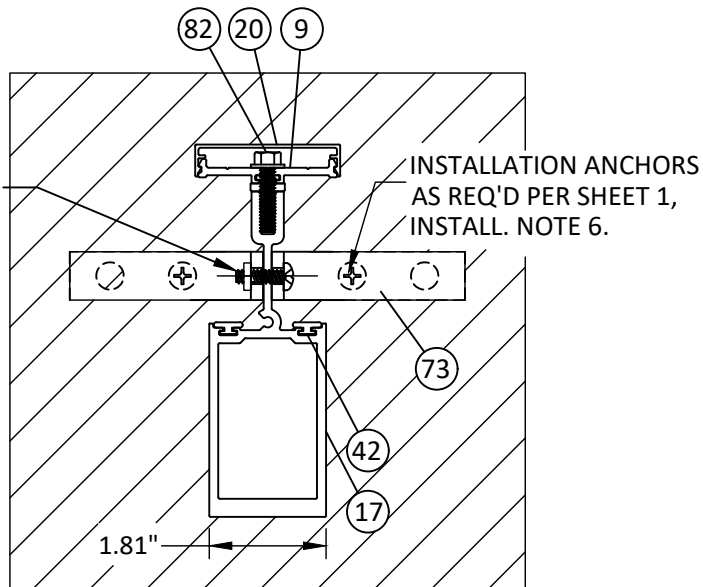
Z10 HORIZONTAL SECTION
MEETING STILE
ALTERNATE #1



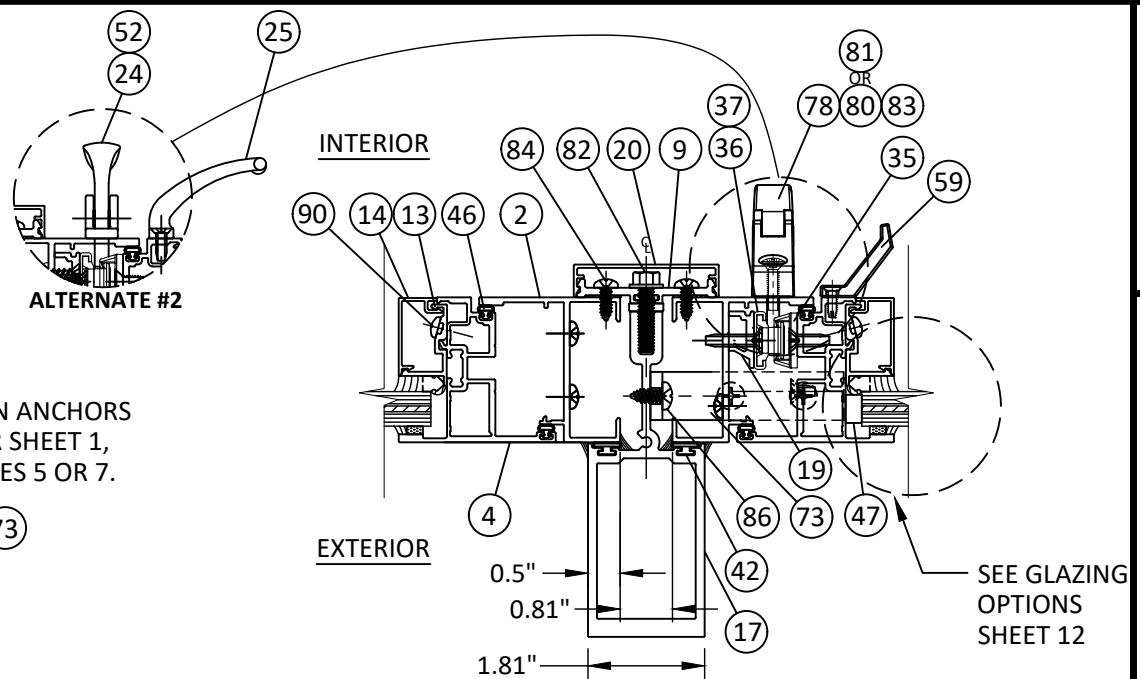
AA10 HORIZONTAL SECTION
STACK MULLION - TYP.
INSTALL TO WOOD/METAL FRAME



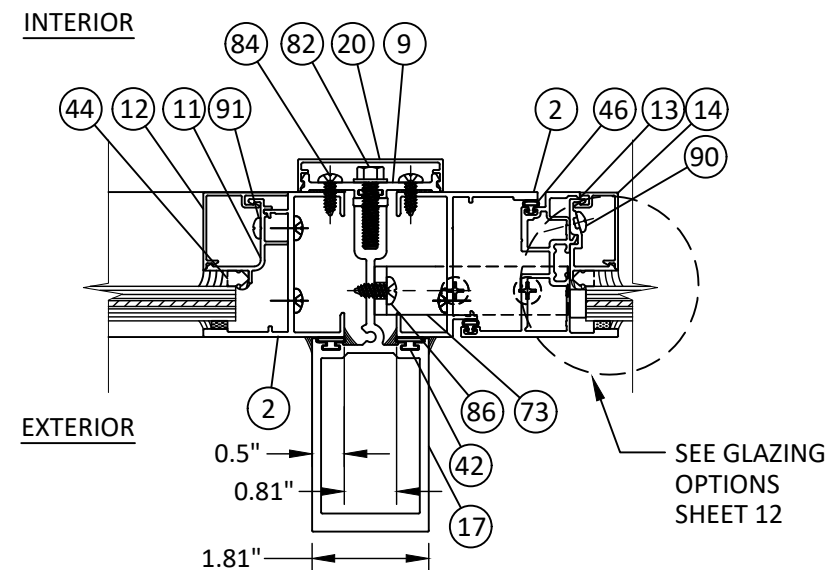
Y10 VERTICAL SECTION
INTEGRAL MULLION-TYP.
FIXED OVER CASEMENT



AB10 HORIZONTAL SECTION
STACK MULLION - TYP.
INSTALL TO CONCRETE/MASONRY



AC10 HORIZONTAL SECTION
STACK MULLION - TYP.
CASEMENT TO CASEMENT
ALTERNATE #1



AD10 HORIZONTAL SECTION
STACK MULLION - TYP.
FIXED TO CASEMENT



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TITLE:
YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)

INTEGRAL & STACK MULL DETAILS

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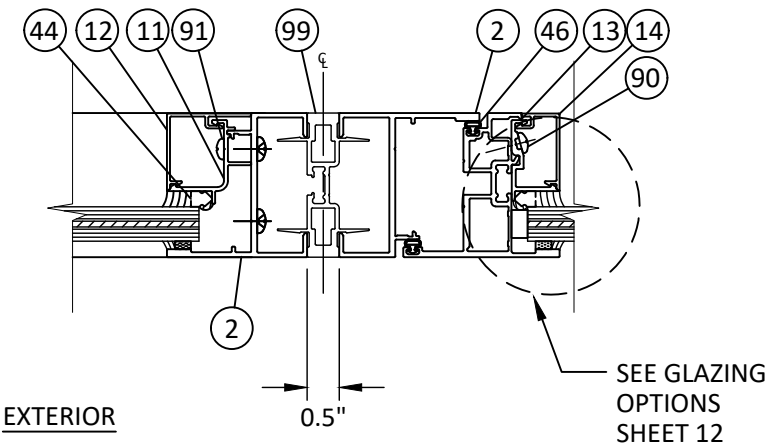
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DWG. #:	YKK176
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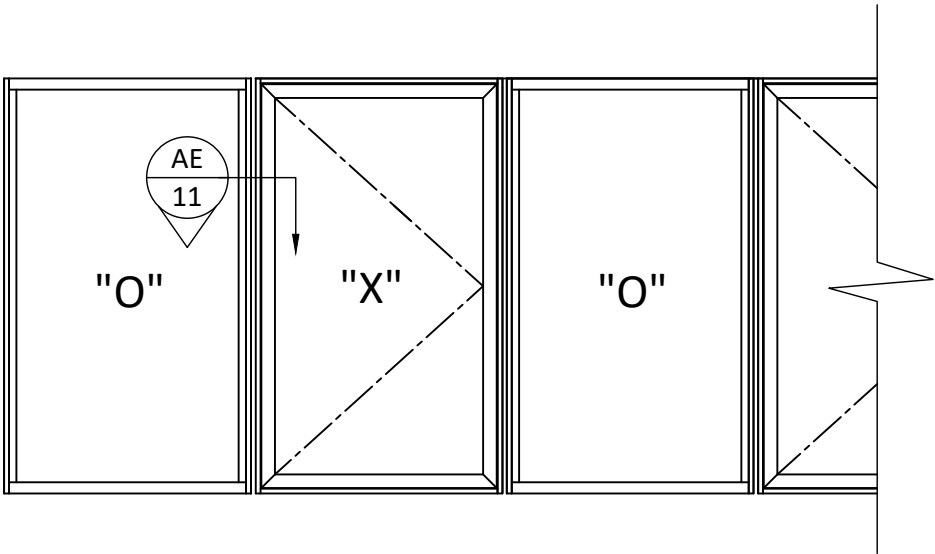
INTERIOR



AE 11 HORIZONTAL SECTION
I MULLION - TYP.
FIXED TO CASEMENT

I MULLION DESIGN PRESSURE		
VENT WIDTH	MULL SPAN	DESIGN PRESSURE
28	80	65.0
30	74	65.0
32	70	65.0
34	66	65.0
36	62	65.0
38	59	65.0
40	56	65.0
42	53	65.0
44	51	65.0
46	49	65.0
48	47	65.0

- NOTES:
1. I MULLION MAY BE USED ON A SINGLE ROW OF WINDOWS UP TO THE MAXIMUM APPROVED CASEMENT VENT HEIGHT OF 78" AT +/- 65 PSF.
 2. CONFIGURATIONS OF FIXED WINDOWS OVER CASEMENT WINDOWS OR CASEMENT WINDOWS OVER FIXED WINDOWS MULLED TO ADJACENT WINDOWS ARE QUALIFIED UP TO THE MAXIMUM FRAME HEIGHT OF 84" SHOWN ON SHEET 2 FOR +/-65 PSF SUCH THAT CONTINUOUS FRAMES ARE USED.
 3. OTHER CONFIGURATIONS SHALL BE EVALUATED FOR STRUCTURAL ADEQUACY ON A SITE BY SITE BASIS.
 4. MULL SPAN = VENT HEIGHT + 2"



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TITLE:
YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)
I MULLION DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
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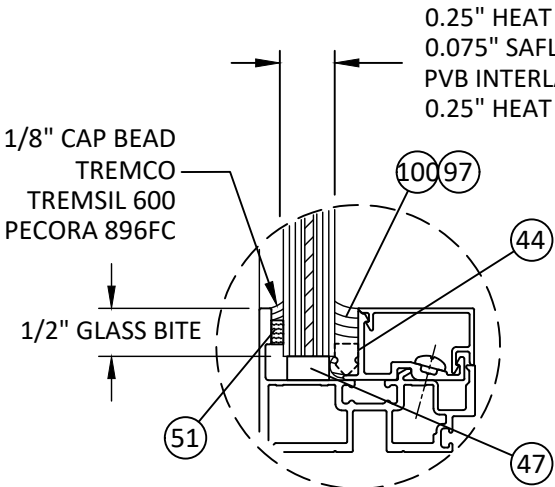
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SHEET: **11** REV. **C**

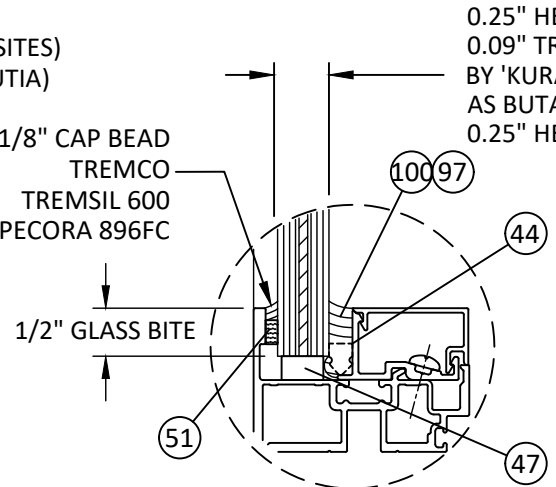
OF 15

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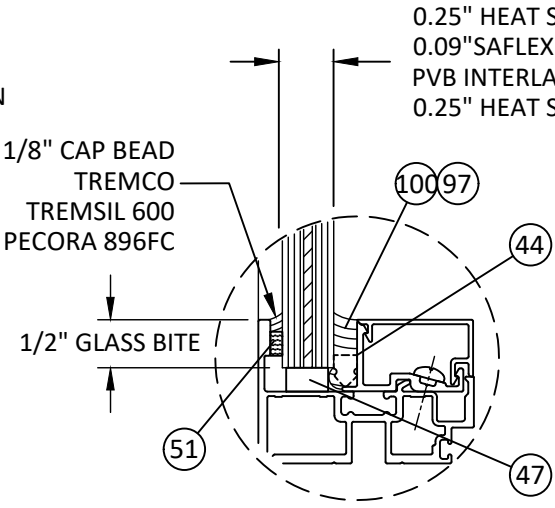
LARGE MISSILE IMPACT RATED GLAZING OPTIONS



GLAZING DETAIL A

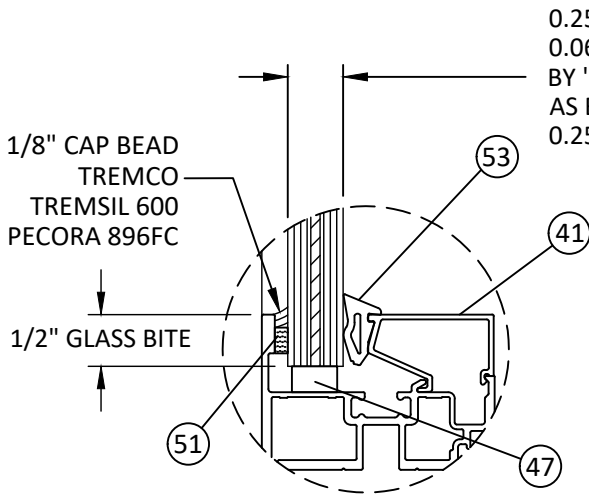


GLAZING DETAIL B

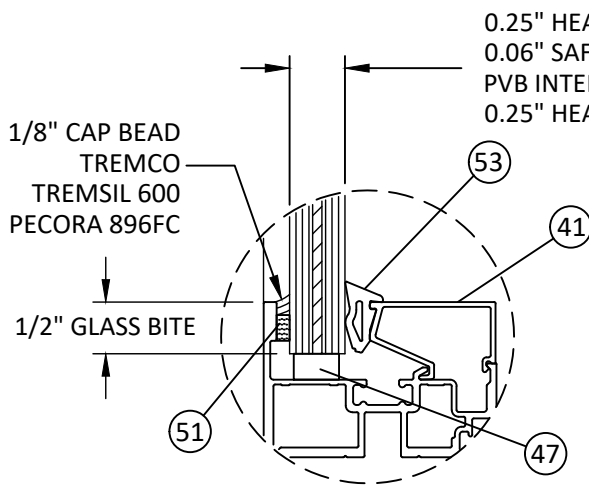


GLAZING DETAIL C

SMALL MISSILE IMPACT RATED GLAZING OPTIONS



GLAZING DETAIL D



GLAZING DETAIL E

- GLAZING NOTES:
- 1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
 - 2. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - 3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.



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101 MARIETTA STREET NW, SUITE 2100
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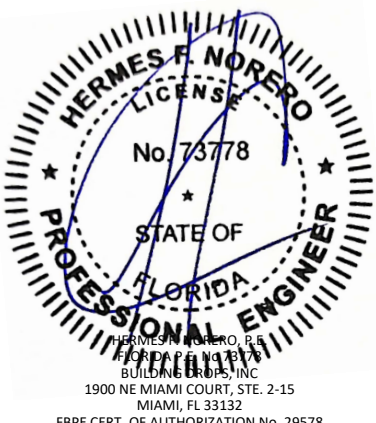
TITLE: YOW 225 H NON-THERMAL ALUMINUM CASEMENT WINDOW (WZ3) (IMPACT) GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL16312**

DATE: **10.16.17**

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

DWG. #: **YKK176**

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OF 15

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YOW 225 H BILL OF MATERIAL					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
1	E9-4536	FRAME HEAD AND SILL	6063-T5	YKK-AP	
2	E9-4537	FRAME JAMB	6063-T5	YKK-AP	
3	E9-4570	MULLION	6063-T5	YKK-AP	
4	E9-4534	VENT	6063-T5	YKK-AP	
5	E9-4538	COMMON FRAME	6063-T5	YKK-AP	
6	E9-4539	MULLION	6063-T5	YKK-AP	
7	BE9-4583	2 1/4" WEEPING SILL FLASHING	6063-T5	YKK-AP	
8	E9-4577	RECEPTOR	6063-T5	YKK-AP	
9	E9-4231	PRESSURE BAR	6063-T5	YKK-AP	
10	E9-4513	ADAPTOR	6063-T5	YKK-AP	
11	E9-4544	FIXED GLASS STOP	6063-T5	YKK-AP	
12	E9-4545	FIXED SNAP COVER	6063-T5	YKK-AP	
13	E9-4546	VENT GLASS STOP	6063-T5	YKK-AP	
14	E9-4547	VENT SNAP COVER	6063-T5	YKK-AP	
15	E9-4586	3" SILL TRIM	6063-T5	YKK-AP	
16	E9-4559	SILL TRIM BASE	6063-T6	YKK-AP	
17	E9-4562	STACKING MULLION	6063-T5	YKK-AP	
18	E9-4578	RECEPTOR STOP	6063-T5	YKK-AP	
19	E9-4593	LOCK BAR BASE	6063-T5	YKK-AP	
20	E9-5111	COVER	6063-T5	YKK-AP	
21	E9-7318	FIXED GLASS STOP	6063-T5	YKK-AP	
22	E9-7319	FIXED GLASS SNAP COVER	6063-T5	YKK-AP	
23					
24	E1-1505	MULTI LOCK HANDLE	WHITE BRONZE		
25	E1-1508	PULL HANDLE	WHITE BRONZE		
26	E1-1519	KEEPER	WHITE BRONZE	BRONZE CRAFT	
27	E1-1541	CAM HANDLE - RH	WHITE BRONZE	BRONZE CRAFT	
28	E1-1542	CAM HANDLE - LH	WHITE BRONZE	BRONZE CRAFT	
29	E1-1715	BUTT HINGE (TOP)			
30	E1-1714	BUTT HINGE (BOTTOM)			
31	E1-1723	BUTT HINGE ANGLE			
32	E1-1782	HINGE BASE	6063-T5	YKK-AP	
33	E1-1786	CORNER BLOCK	6063-T5	YKK-AP	
34	E1-1787	CORNER BLOCK	6063-T5	YKK-AP	
35	E1-1952	KEEPER			
36	E1-1954	LOCK BAR BASE			
37	E1-1955	LOCK BAR EXTENSION			
38	4K-14207	4 BAR HINGE (12")	STAINLESS STEEL	YKK-AP	
39	E1-1780	HINGE BASE (12")	6063-T5	YKK-AP	
40					
41	E9-4548	SMI GLASS STOP	6063-T5	YKK-AP	
42	E2-0051	AT GASKET	SANTOPRENE	TREMCO	
43	E2-0653	SIDE BLOCK	EPDM	TREMCO	
44	E2-0359	PUSH - IN - SPACER	SCR900	TREMCO	
45	E2-0367	PUSH - IN - SPACER	SCR900	TREMCO	
46	E2-0625	AT GASKET	SANTOPRENE	TREMCO	
47	E2-0623	SETTING BLOCK	EPDM	TREMCO	
48					
49	E2-0652	SETTING BLOCK	EPDM	TREMCO	
50					
51	E2-0670	BACKER TAPE	POLYURETHANE FOAM	SAINT GOBAIN	
52	E2-0682	GASKET - RUBBER	BUTYL	BRONZE CRAFT	FOR MULTI LOCK HANDLE

YOW 225 H BILL OF MATERIAL					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
53	E2-0672	WEDGE GASKET	EPDM		DUROMETER 70 +/-5
54					
55	E3-1132	WEEP COVER	MOLDED POLYAMIDE 6	IPS USA	
56					
57	4K-14209	22" 4 BAR HINGE	STAINLESS STEEL	YKK-AP	
58	5K-15284	16" 4 BAR HINGE	STAINLESS STEEL	YKK-AP	
59	E1-1981	PULL HANDLE	DIE CAST	AMESBURY / TRUTH	
60	E9-4566	THROUGH FRAME FILLER PLATE	6063-T5	YKK-AP	3" LONG @ EA. ANCHOR LOCATION
61	E9-4031	1" X 2" CLIP	6063-T5	YKK-AP	
62	E9-4032	1" X 2" COVER	6063-T5	YKK-AP	
63	E1-1922	ANCHOR CLIP	6063-T5	YKK-AP	
64	E9-4035	ANCHOR CLIP COVER	6063-T5	YKK-AP	
65	E9-4556	1 ¼" X 1" CLIP	6063-T5	YKK-AP	
66	E9-4557	1 ¼" X 1" COVER	6063-T5	YKK-AP	
67	E9-8431	STRAP ANCHOR COVER	6063-T5	YKK-AP	
68	E9-8537	1" X 1 ½" CLIP	6063-T5	YKK-AP	
69	E9-8538	1" X 1 ½" COVER	6063-T5	YKK-AP	
70	E9-8562	1 ½" X 3 ½" CLIP	6063-T5	YKK-AP	
71	E9-8563	1 ½" X 3 ½" COVER	6063-T5	YKK-AP	
72	E9-4529	STRAP ANCHOR	6063-T5	YKK-AP	MIN. LENGTH 4 1/2"
73	E1-1965	MULLION CLIP at ¾"	6063-T5	YKK-AP	
74	E1-1957	4 BAR HINGE (EGRESS)	STAINLESS STEEL	YKK-AP	
75	E1-1960	HINGE BASE (EGRESS)	6063-T5	YKK-AP	
76	4K-14208	4 BAR HINGE (16")	STAINLESS STEEL	YKK-AP	
77	E1-1781	HINGE BASE (16")	6063-T5	YKK-AP	
78	E1-1980	BACKER PLATE	STAINLESS STEEL	CALDWELL	
79	FF-1012-SS	#10-24 X 3/4" FH MS SS F	300 SS		FOR 4 BAR HINGE BASE
80	E1-1966	STANDARD MULTI LOCK HANDLE	DIE CAST / STEEL	CALDWELL	
81	E1-1994	EXTENDED MULTI LOCK HANDLE	DIE CAST / STEEL	CALDWELL	
82	HD-2516-W3	1/4-20 X 1" HWHSS SS	300 SS		1 1/2" FROM EA. END & 9" MAX. O.C.
83	E1-1979	HANDLE GASKET	BUTYL	CALDWELL	
84	PC-1008-SS	#10 X 1/2" PH SMS SS AB	300 SS		6" FROM EA. END & 12" MAX. O.C.
85	PC-1016-SS	#10 X 1" PH SMS SS AB	300 SS		FOR FRAME ASSEMBLY
86	PC-1208-SS	#12X1/2" PH SMS SS AB	300 SS		(2) PER CLIP TO MULLION
87	PF-1006-SS	#10-24 X 3/8" FH MS SS F	300 SS		FOR 4 BAR HINGE
88		#10 X 1/2" PH SMS	SAE GR. 5		3" FROM EA. END & 7 1/8" MAX. O.C.
89					
90	PS-0808-SS	#8 X 1/2" PH SMS SS SELF DRILLING	410 SS		3" FROM EA. END & 10" O.C.
91	PS-1016-SS	#10 X 1" PH SMS SS SELF DRILLING	410 SS		3" FROM EA. END & 10" O.C.
92					
93		9/32" DIA. WEEP HOLE			AT CENTER OF BOTTOM RAIL
94		1 1/16" X 1/4" WEEP SLOT			AT CENTER OF EA. W.O. AT FRAME SILL
95	E2-0768	JAMB BLOCK			AT BOTTOM OF JAMB WITH SILL FLASHING
96		#10-16 x 3/4" SSMS (PH OR FH)			3" FROM CORNERS, SILICONE AT HOLES
97		DOW 995 SILICONE ADHESIVE	SILICONE		MIN. 4" BEADS AT MAX. 24" O.C.
98	E1-1970	TWIST ANCHOR	GALVANIZED STEEL		
99	E9-4579	I MULLION	6063-T5		
100		PECORA 895NST SILICONE ADHESIVE	SILICONE		
101	PC-0806SS	#8 X 3/8" PHSMS TYPE AB	STAINLESS STEEL		
102	E9-4587	4" SILL TRIM	6063-T5	YKK-AP	
103	E1-2003	END DAM			
104					



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101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
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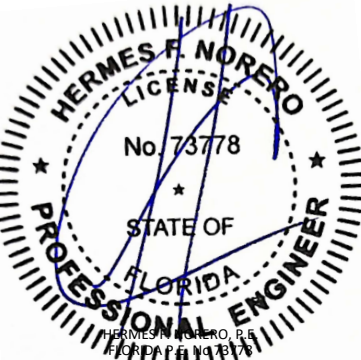
TITLE:
YOW 225 H NON-THERMAL ALUMINUM
CASEMENT WINDOW
(WZ3) (IMPACT)

BILL OF MATERIALS

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



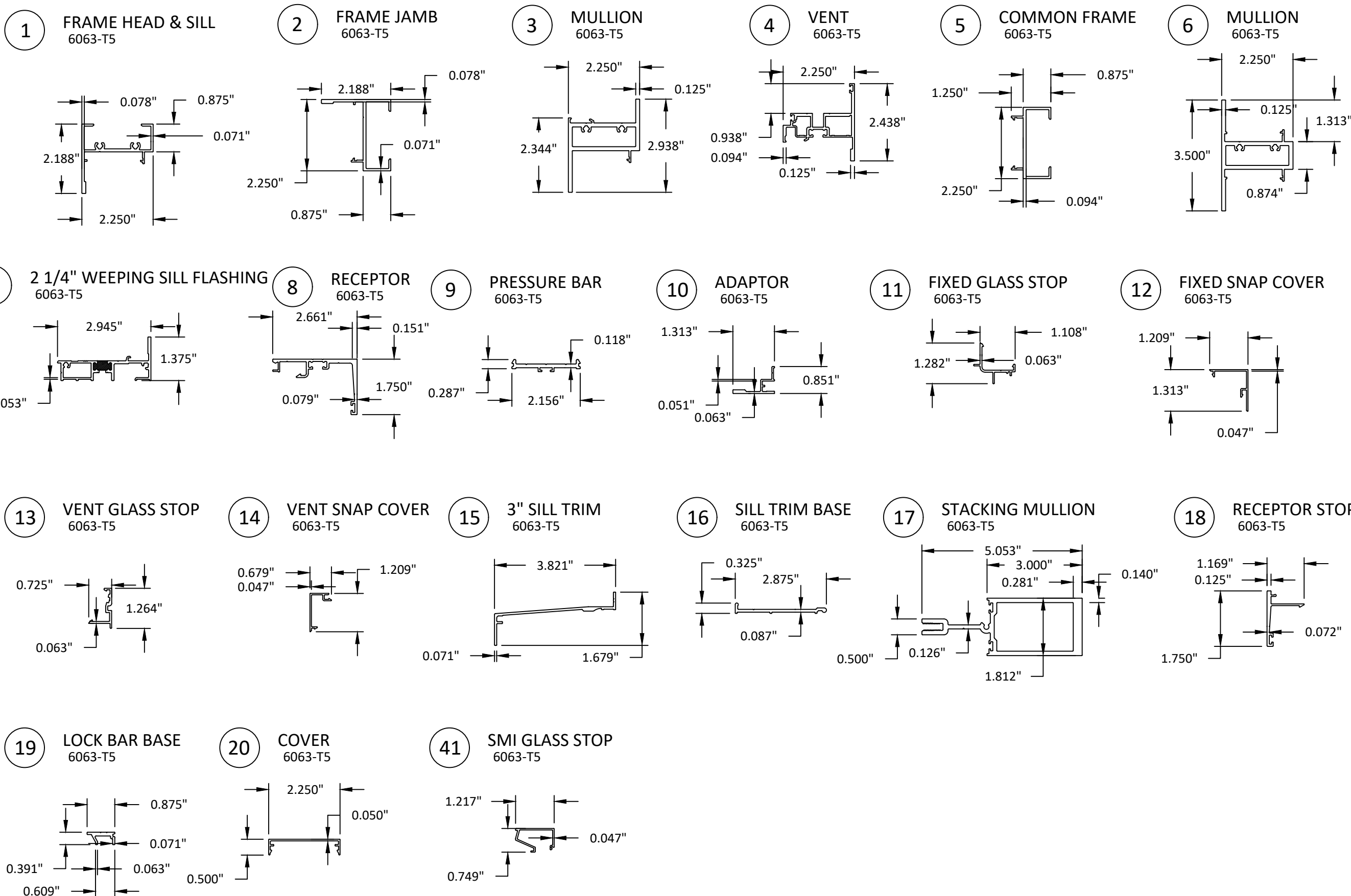
REMARKS	BY	DATE
2023 FBC CODE UPDATE	MS	05.05.23
MISC. UPDATE	SH	02.26.24
2026 FBC CODE UPDATE	SH	07.30.26
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.		



HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	
FL16312	
DATE: 10.16.17	
DWG. BY: AR	CHK. BY: HFN
SCALE: NTS	
DWG. #: YKK176	
SHEET:	REV. C
13 OF 15	

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YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 H NON-THERMAL ALUMINUM CASEMENT WINDOW (WZ3) (IMPACT) COMPONENTS 1

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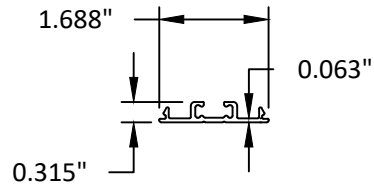
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SHEET: 14	REV. C
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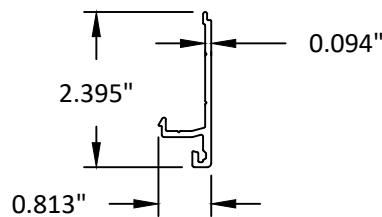
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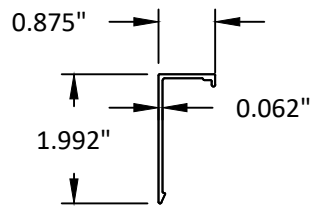
60 THROUGH FRAME FILLER PLATE
6063-T5



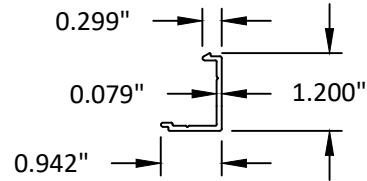
63 ANCHOR CLIP
6063-T5



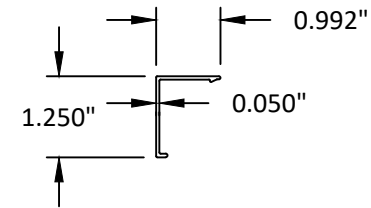
64 ANCHOR CLIP COVER
6063-T5



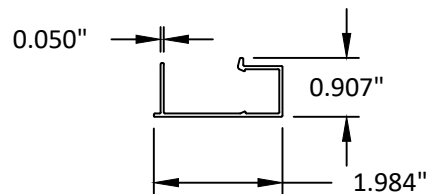
65 1 1/4" X 1" CLIP
6063-T5



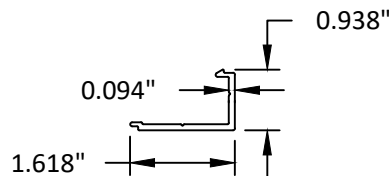
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6063-T5



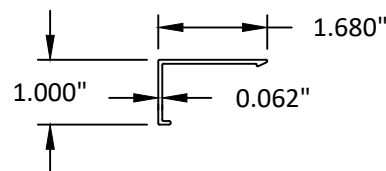
67 STRAP ANCHOR COVER
6063-T5



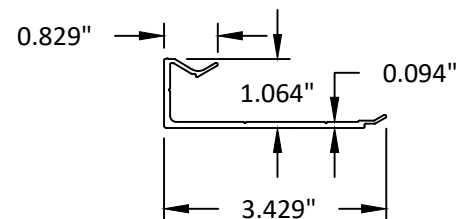
68 1" X 1 11/16" CLIP
6063-T5



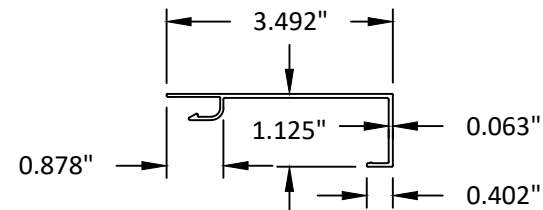
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6063-T5



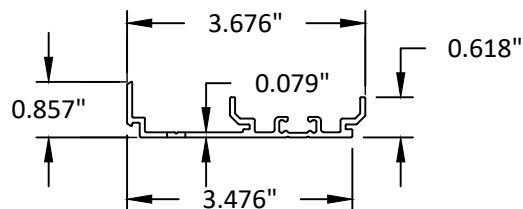
70 1 1/8" X 3 1/2" CLIP
6063-T5



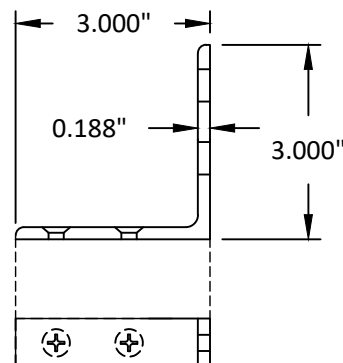
71 1 1/8" X 3 1/2" COVER
6063-T5



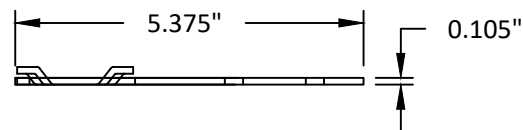
72 STRAP ANCHOR
6063-T5
MINIMUM 4 1/2" LENGTH



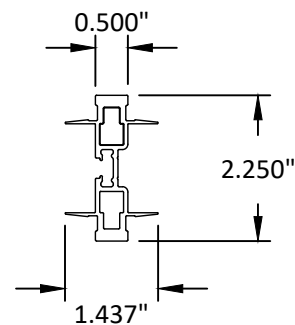
73 MULLION CLIP
6063-T5



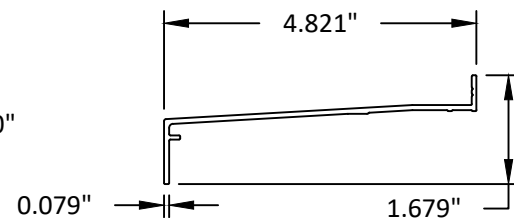
98 TWIST ANCHOR
GALV. STEEL



99 I MULLION
6063-T5



102 4" SILL TRIM
6063-T5



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TITLE:
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(WZ3) (IMPACT)
COMPONENTS 2
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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL16312
DATE: **10.16.17**
DWG. BY: **AR** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **YKK176**
SHEET: **15** REV. **C**
OF 15