

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE SPECIFIED.

2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.

3. 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.

4. 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.

5. FOR INSTALLATION INTO WOOD FRAMING USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.

6. 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.

7. 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.

8. 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.

9. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.

10.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).

11.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.

12.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.

13.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.

14.INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEMS.
- YKK AP America Inc.

YOW 225 TUH THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT)
- 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:

AAMA/WDMA/CSA 101/I.S.2/A440-22

TAS 201-94

TAS 202-94

TAS 203-94

2. 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.

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. DOCUMENTS SHALL BE APPROVED BY AUTHORITY HAVING JURSDICTION (AHJ)

5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.

6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T5

7. 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.

8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEETS 10 & 11 FOR GLAZING DETAILS.

9. GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT FBC, CHAPTER 24.

10.GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

11.GLAZING GASKETS SHALL MEET THE MINIMUM PERFORMANCE REQUIREMENTS AS APPLICABLE IN CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
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| GLAZING TYPES | MAX. VENT SIZE | MAX. DP | IMPACT RATING |
| A1, A2, B1, B2, C1, C2, I1, I2 | 36-1/8" X 60" | +65/-65 PSF | LMI |
| F, G, H | 36-1/8" X 60" | +65/-65 PSF | SMI |
| J | 42" X 72" | +80/-80 PSF | LMI |
| K | 42" X 72" | +80/-80 PSF | LMI & SMI |
- NOTE:
1. LMI - LARGE MISSILE IMPACT RATED
2. SMI - SMALL MISSILE IMPACT RATED
3. SEE SHEETS 10 & 11 FOR GLAZING DETAILS
4. FURTHER LIMITATIONS OF DESIGN PRESSURES DUE TO HARDWARE ASSEMBLIES FOUND ON SHEET 3.
-
- YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001
- TITLE:
YOW 225 TUH THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT)
- INSTALLATION & GENERAL NOTES
- PREPARED BY:
- BUILDING DROPS, INC.
- 1900 NE MIAMI COURT, STE. 2-15
- MIAMI, FL 33132
- PH: (954)999-8478
- FAX: (954)744-4738
- WEB: www.buildingdrops.com
-
- | REMARKS | BY | DATE |
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| 2023 FBC CODE UPDATE | MS | 05.05.23 |
| 2026 FBC CODE UPDATE | SH | 07.30.26 |
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- Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
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DATE:

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HFN

SCALE:

NTS

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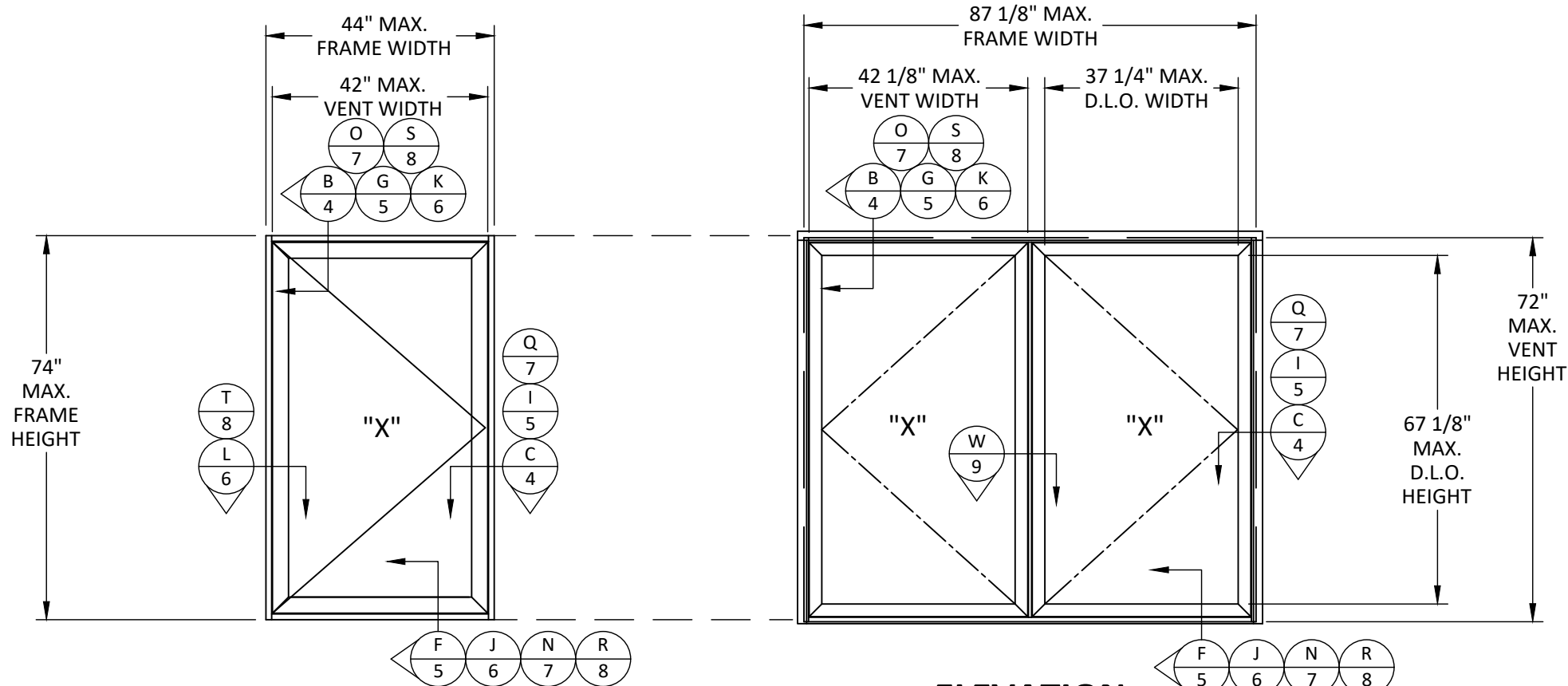
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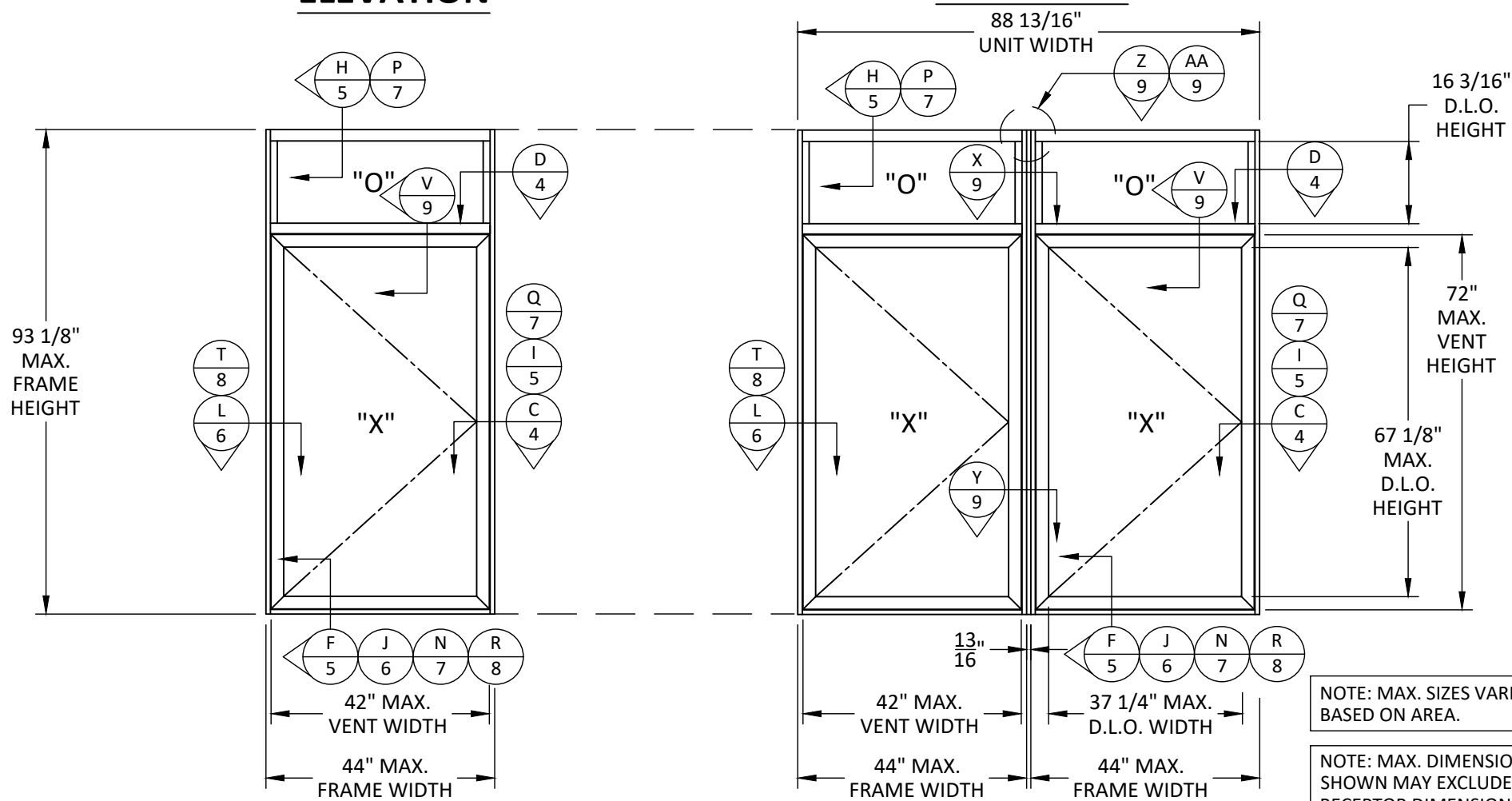
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ELEVATION

ELEVATION



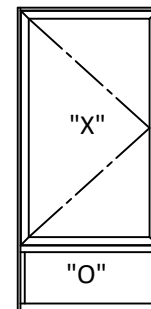
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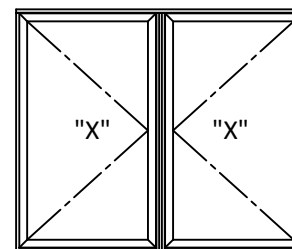
NOTE: MAX. SIZES VARIES BASED ON AREA.

NOTE: MAX. DIMENSIONS SHOWN MAY EXCLUDE RECEPTOR DIMENSIONS. SEE DETAILS SHEET 4 FOR O.A. DIMENSION LOCATIONS.

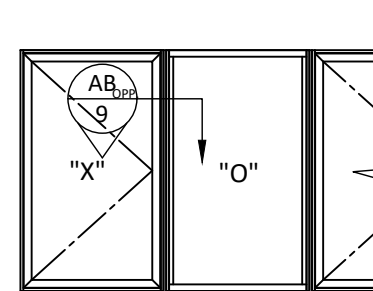
QUALIFIED CONFIGURATIONS



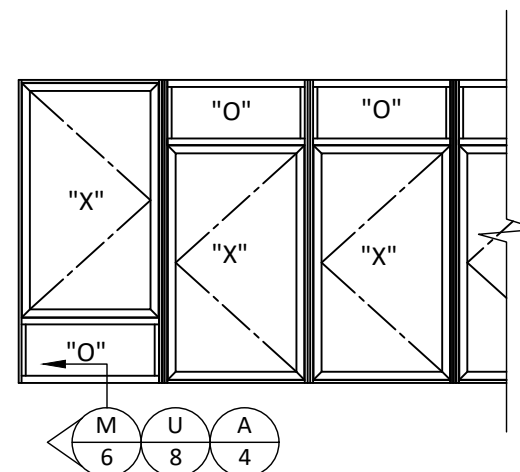
NOTE: UNITS MAY UTILIZE INTEGRAL MULLS FOR FIXED OVER CASEMENT OR CASEMENT OVER FIXED CONFIGURATIONS



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 (SEE APPROVED INSTALLATION INSTRUCTIONS YKK014 & YKK015).



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TITLE: YOW 225 TUI THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT)

ELEVATIONS & QUALIFIED CONFIGURATIONS

PREPARED BY: BUILDING DROPS, INC.

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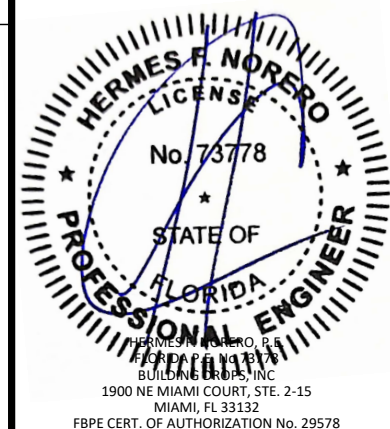
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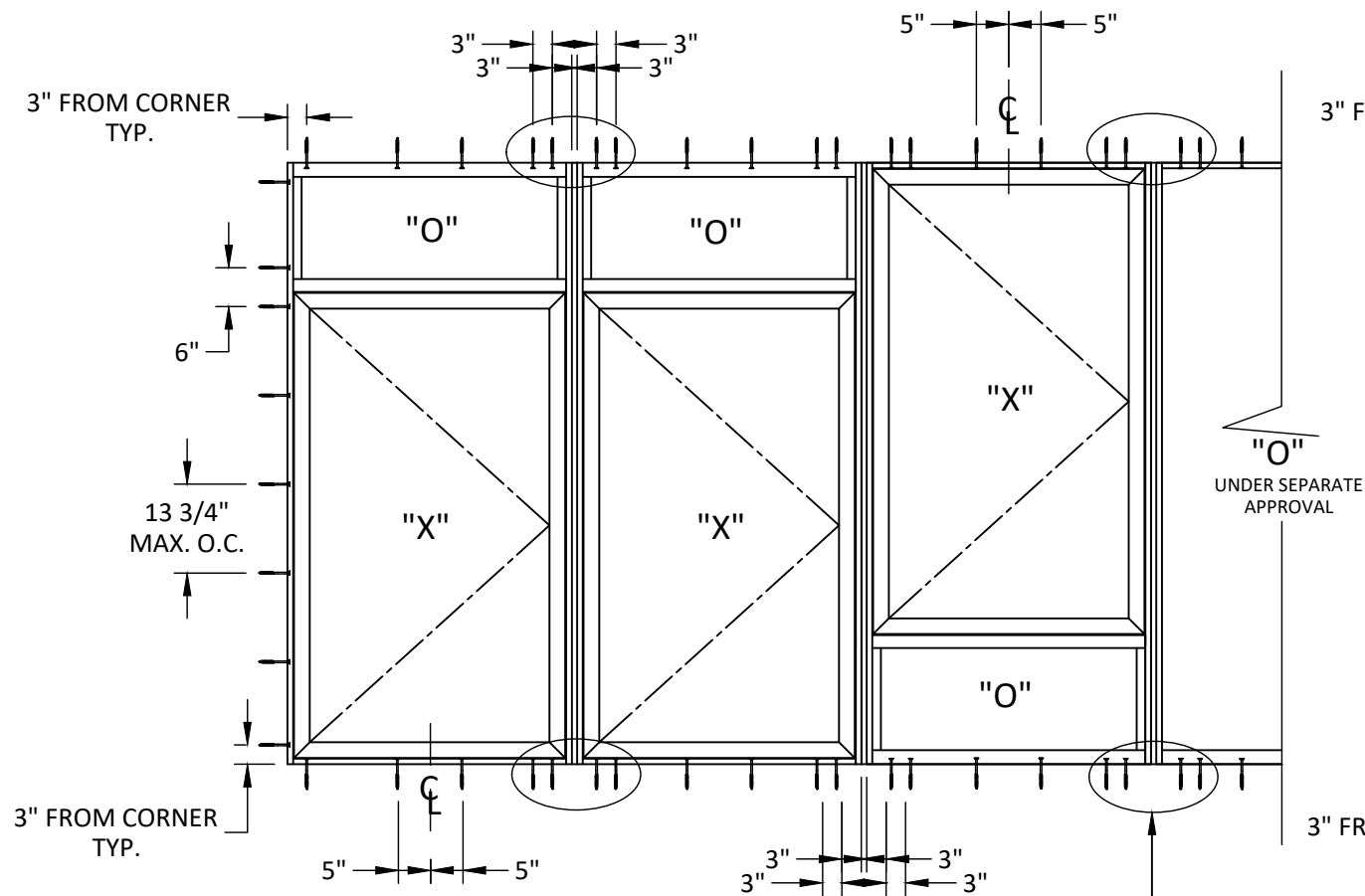
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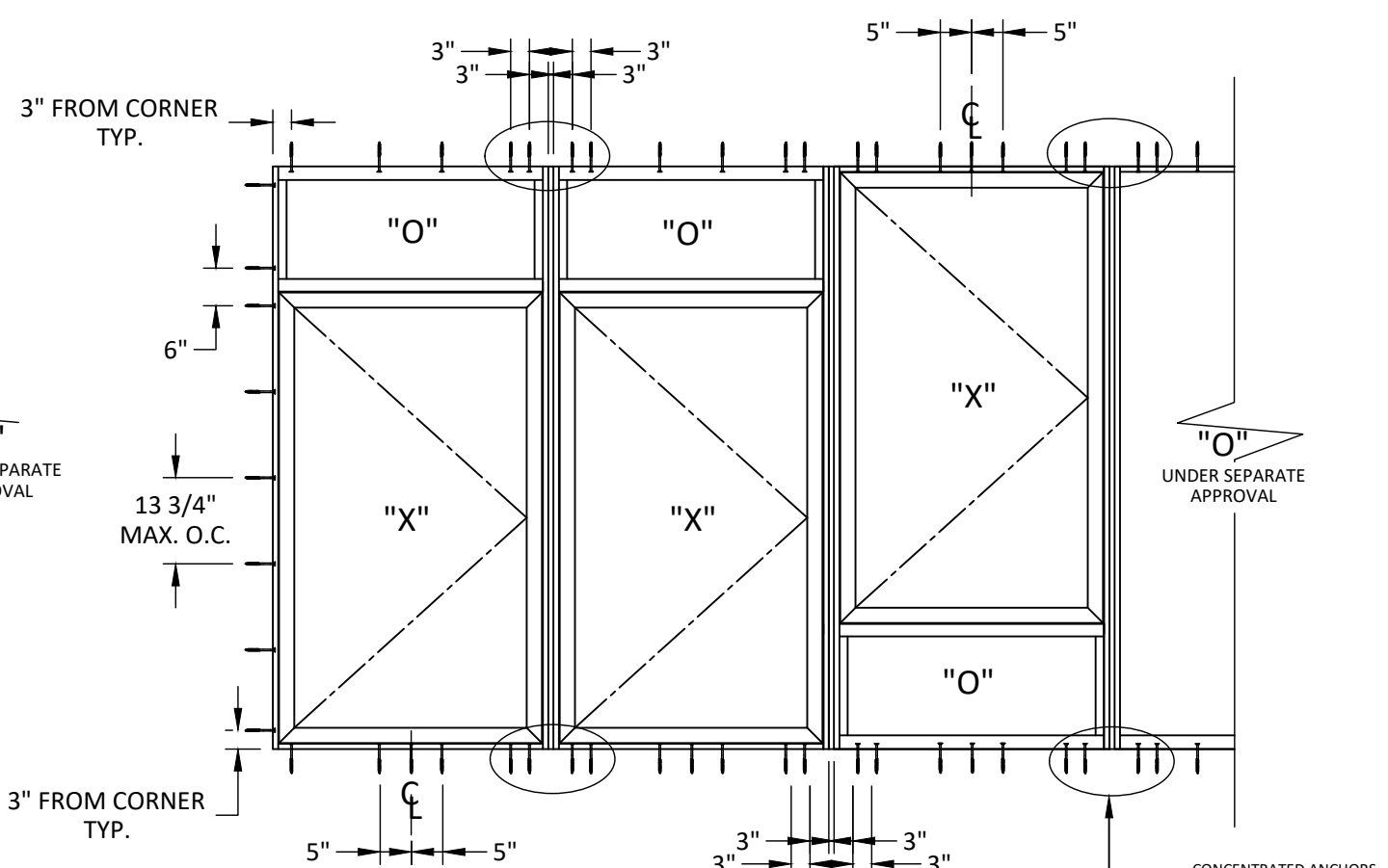
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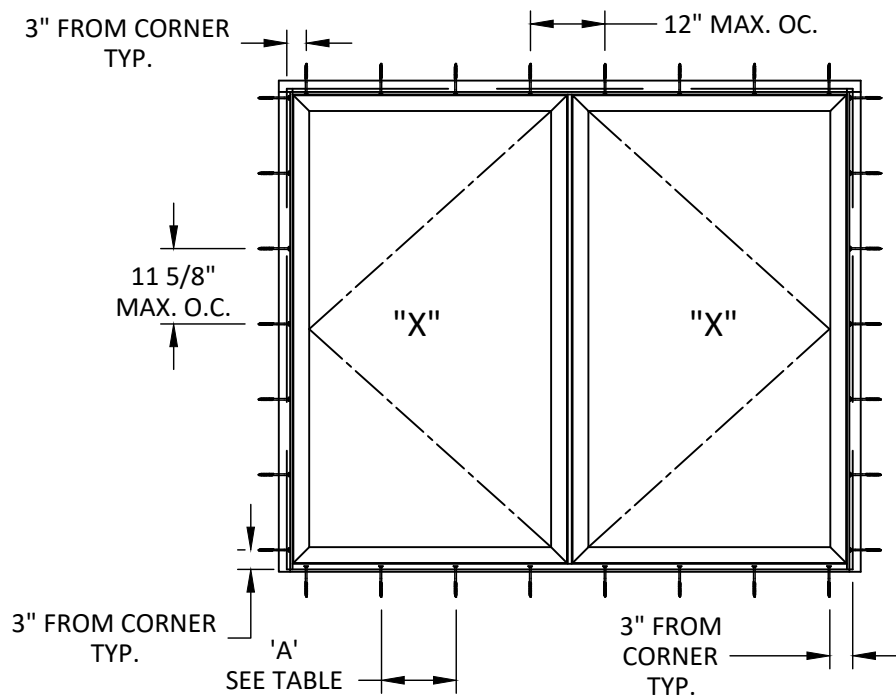
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ANCHOR LAYOUT
STRAP, CLIP, THRU FRAME, OR
TRIM/CLIP INSTALLATIONS



ANCHOR LAYOUT
RECEPTOR 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
80	4	8

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"

HARDWARE SCHEDULE

HARDWARE TYPE	OPTION#	DESCRIPTION	MAX. VENT SIZE	MAX. DESIGN PRESSURE
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.	36-1/8" X 60"	+65/-65 PSF
	2	PULL HANDLE (E1-1508 OR E1-1981) AT LOCK STILE SECURED WITH (2) #8 X 1/2" FH SMS. MULTI-POINT LOCK ASSEMBLY (E1-1505, E1-1704, E1-1717, E1-1701, E1-1703) AT FRAME JAMB, LOCK POINTS 8" FROM ENDS. BRONZECRAFT KEEPERS (E1-1556) SECURED WITH (2) #10 X 1/2" FH SMS.	36-1/8" X 60"	+65/-65 PSF
	3	MULTI-POINT LOCK 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	42" X 72"	+80/-80 PSF
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.	42" X 72"	+80/-80 PSF
	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 PH SMS	36-1/8" X 60"	+65/-65 PSF
	3	12", 4-BAR 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 PH SMS. SEE SNUBBER SCHEDULE FOR REQUIRED QUANTITY OF SNUBBERS.	36" X 72"	+80/-80 PSF

MULTI-POINT SCHEDULE

NUMBER OF REQUIRED LOCK ENGAGEMENTS	VENT HEIGHT (H)
4	72" > H > 58 1/2"
3	58 1/2" > H > 30"
2	30" > H

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

SNUBBER SCHEDULE

NUMBER OF REQUIRED SNUBBERS AT HINGE JAMB	VENT HEIGHT (H)
4	72" > H > 54"
3	54" > H > 30"
2	30" > H > 18"
1	18" > H

NOTE: MAX. SPACING BETWEEN SNUBBER POINTS IS 21".

BUTT HINGE SCHEDULE

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

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

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TITLE: YOW 225 TUI THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) ANCHOR LAYOUTS & HARDWARE SCHEDULE
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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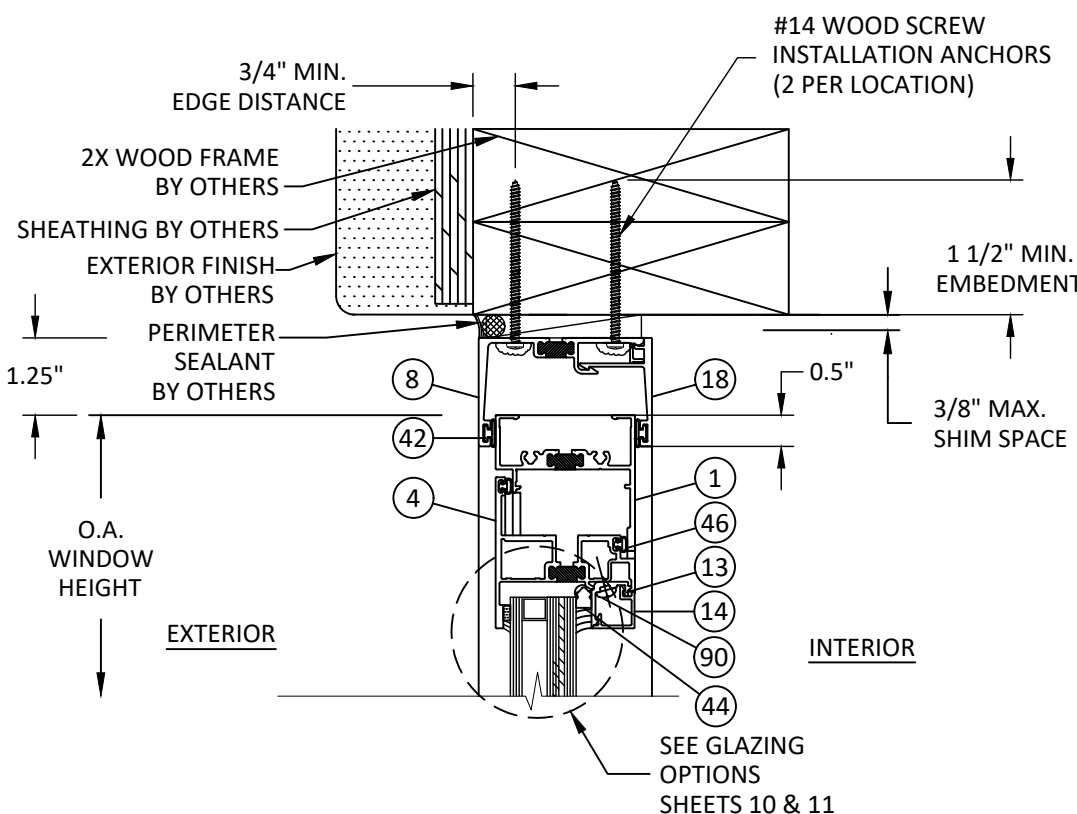
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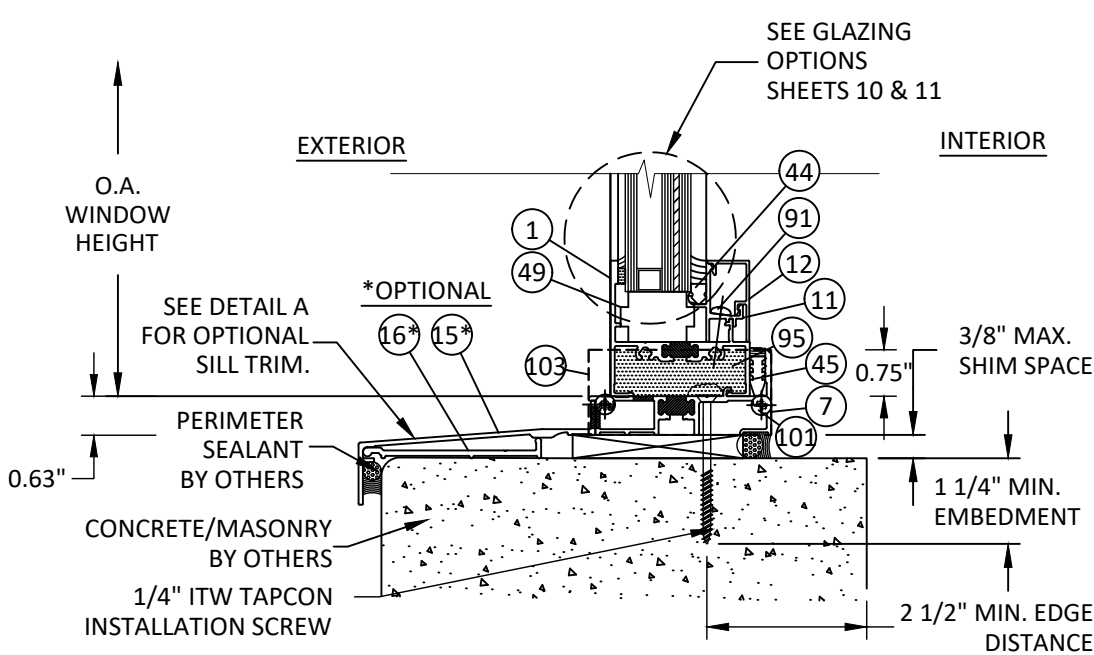
HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL16312**
DATE: **10.16.17**
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SCALE: **NTS**
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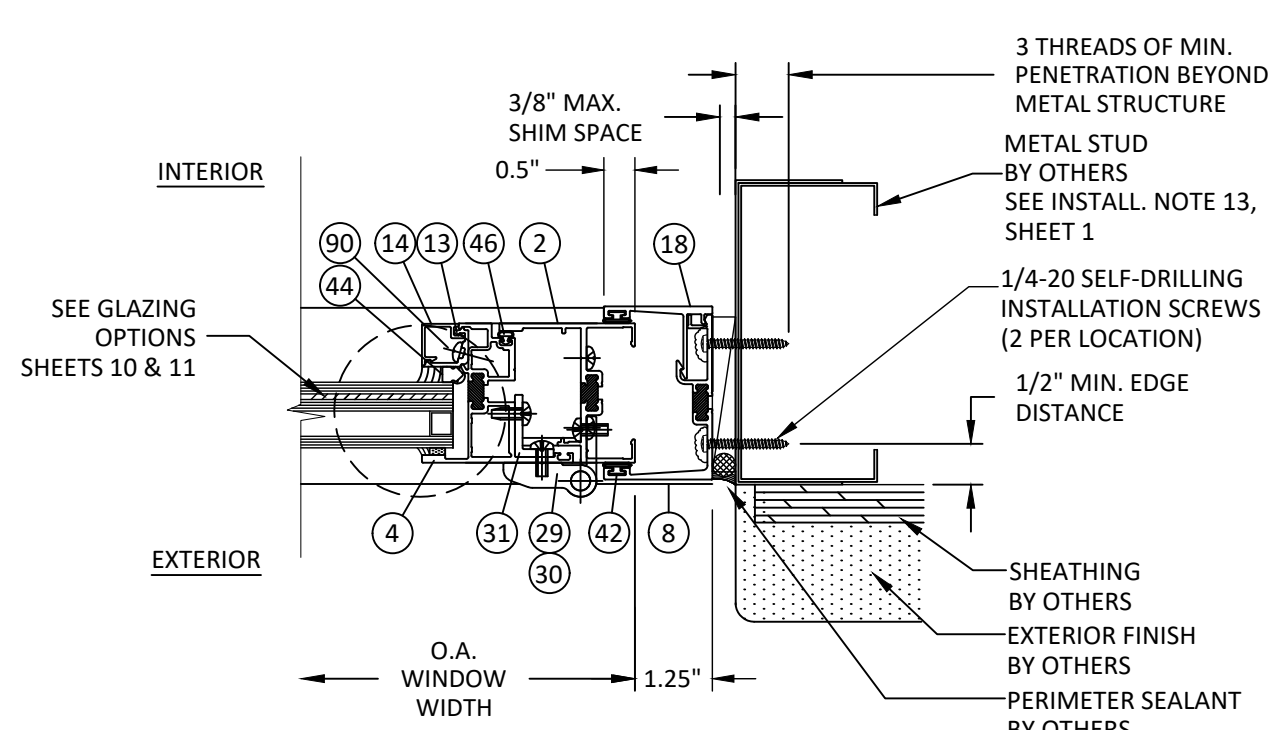
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4 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
INT. SET RECEPTOR - TYP.



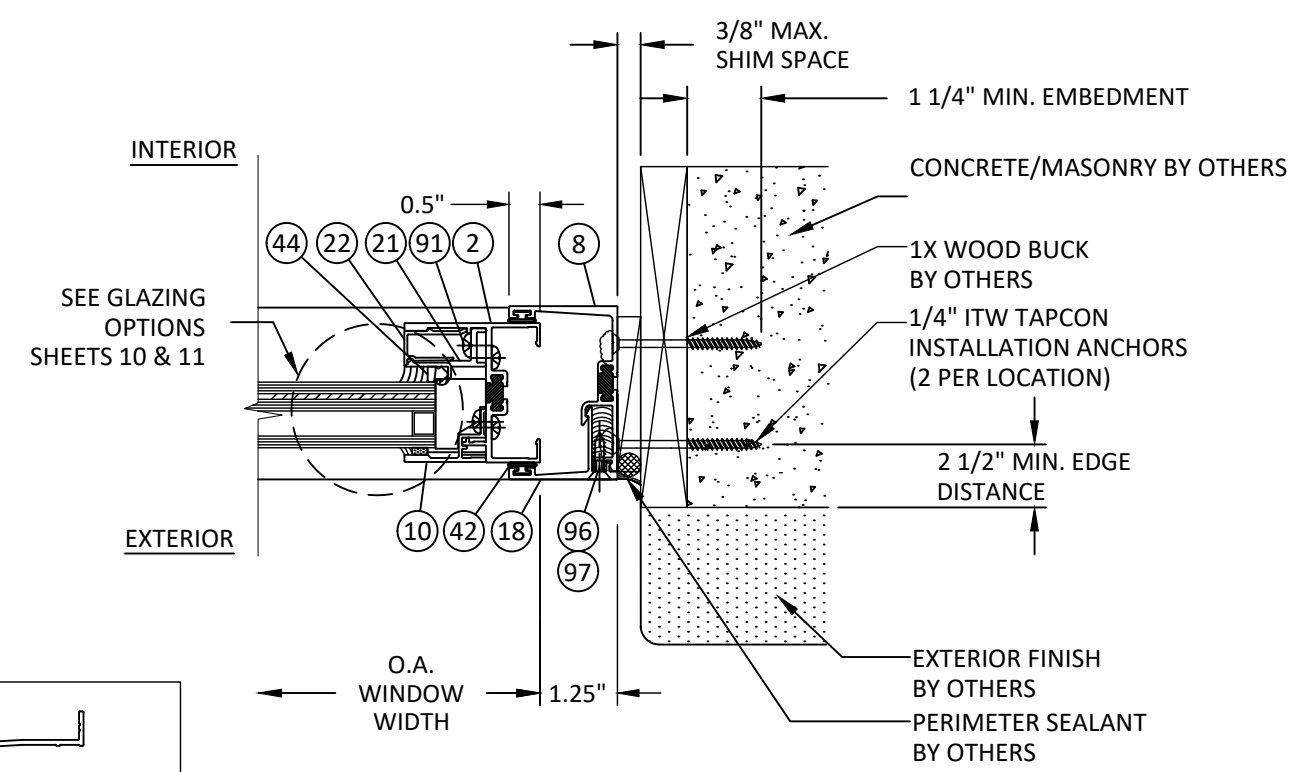
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4 **VERTICAL SECTION**
FIXED SILL - CONCRETE/MASONRY
RECEPTOR & SILL FLASHING - TYP.



**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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TITLE:
YOW 225 THERMAL ALUMINUM
CASEMENT WINDOW
(HVHZ) (IMPACT)

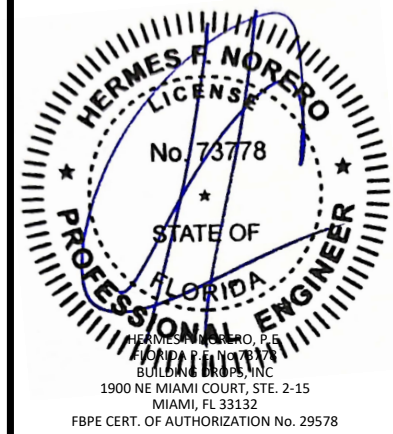
RECEPTOR INSTALLATION DETAILS

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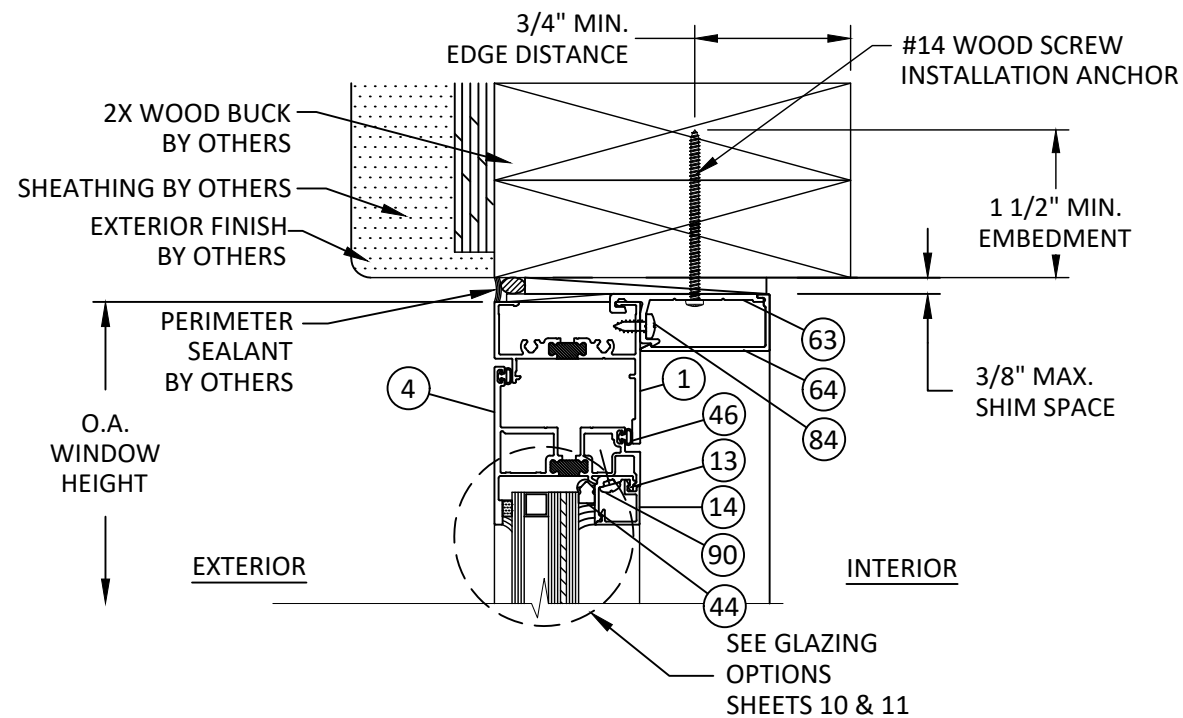
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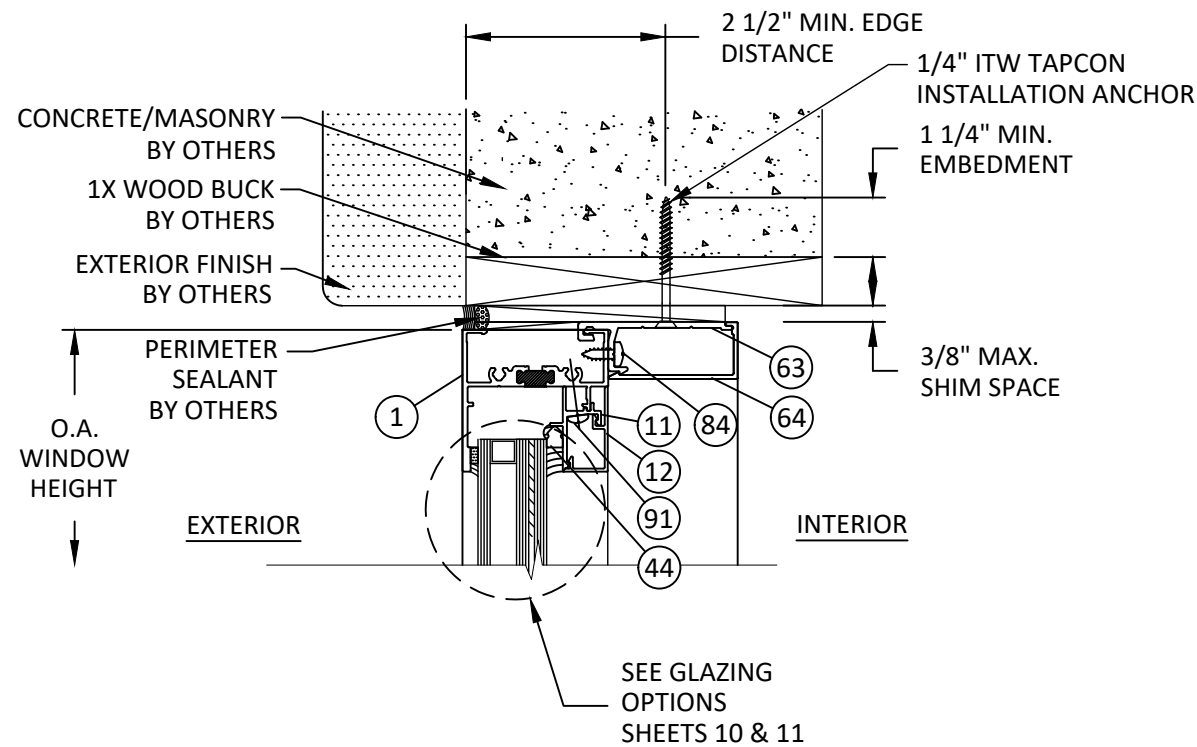


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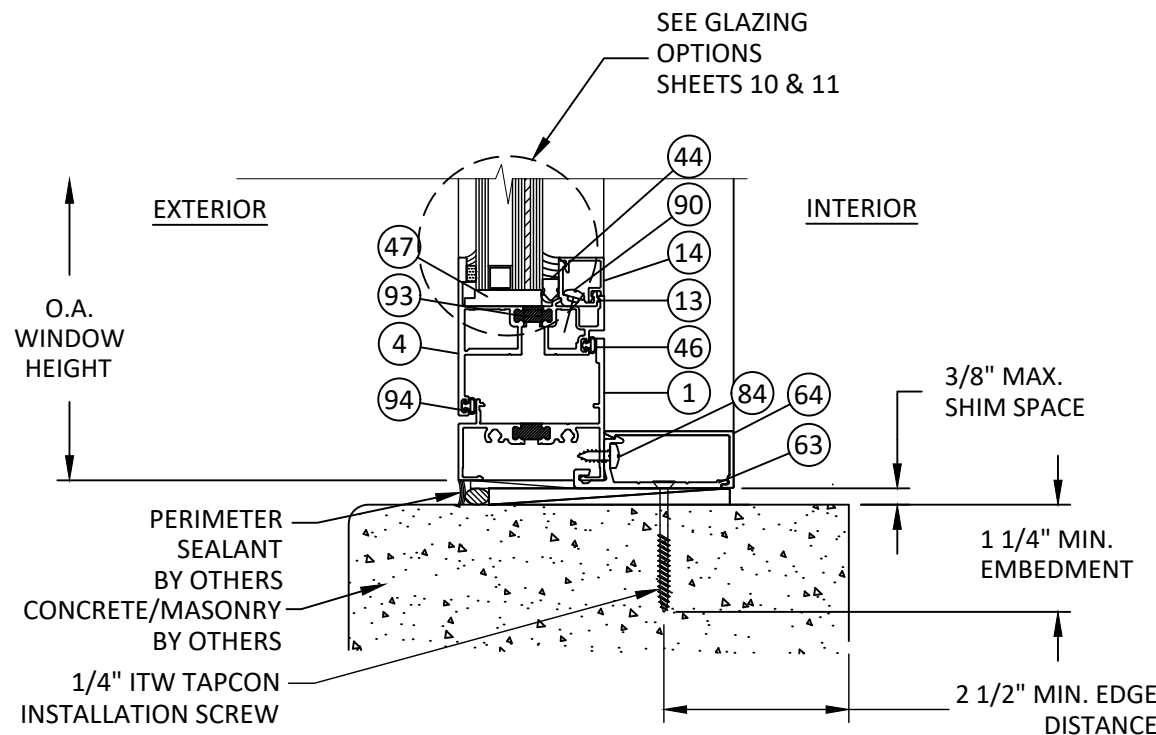
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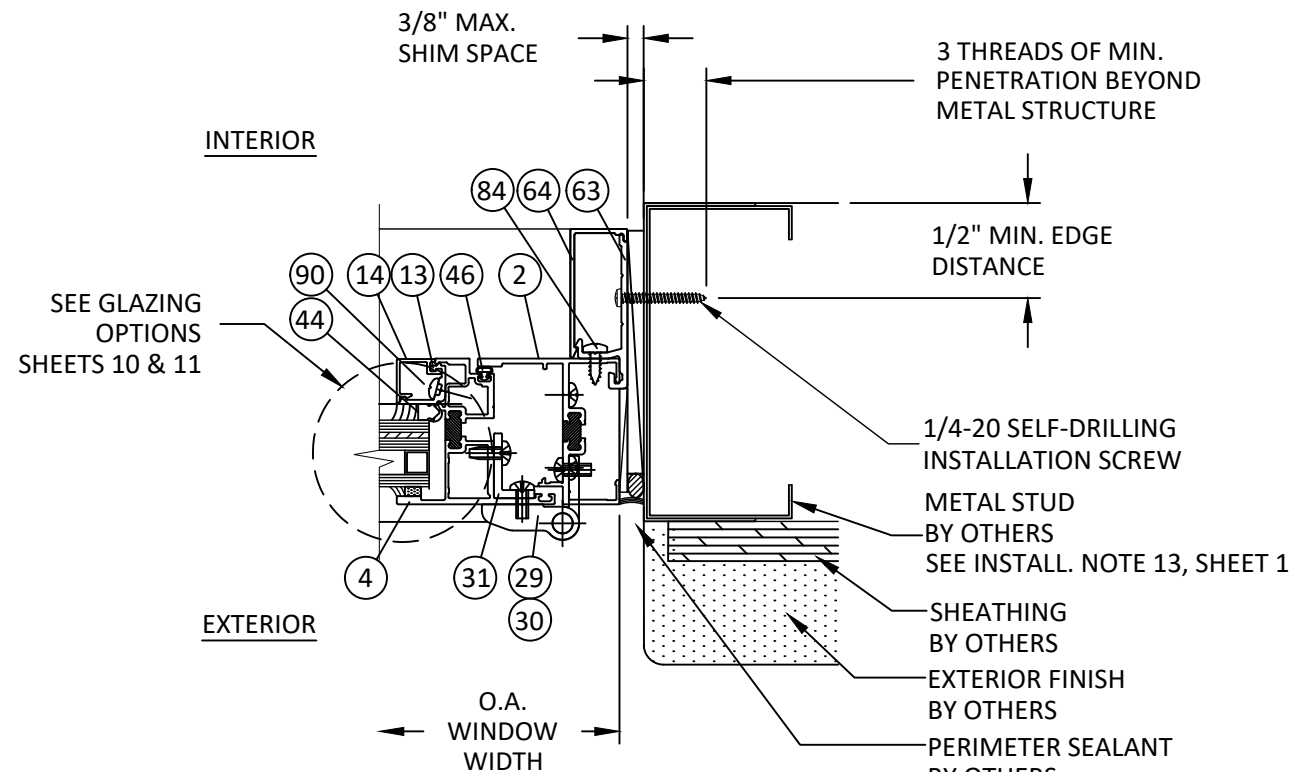
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5 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
CLIP ANCHOR - TYP.



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



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



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



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TITLE:
YOW 225 TUB THERMAL ALUMINUM
CASEMENT WINDOW
(HVBZ) (IMPACT)

CLIP INSTALLATION DETAILS

PREPARED BY:

BUILDING DROPS, INC.

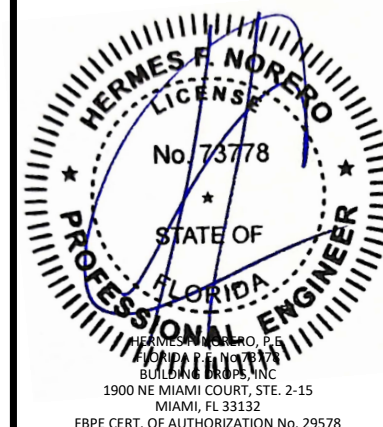
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132

PH: (954) 399-5478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2023 FBC CODE UPDATE	MS	05.05.23
2026 FBC CODE UPDATE	SH	07.30.26

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FL #:

FL16312

DATE: **10.16.17**

DWG. BY:
AR

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK013**

SHEET:

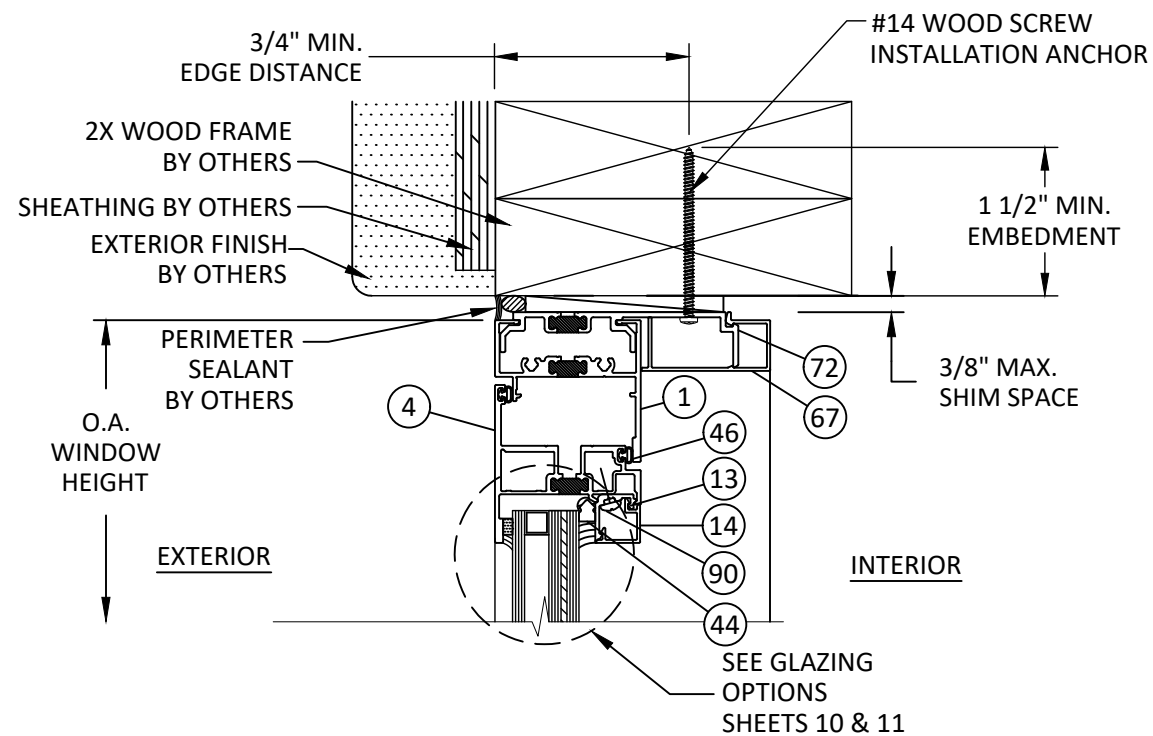
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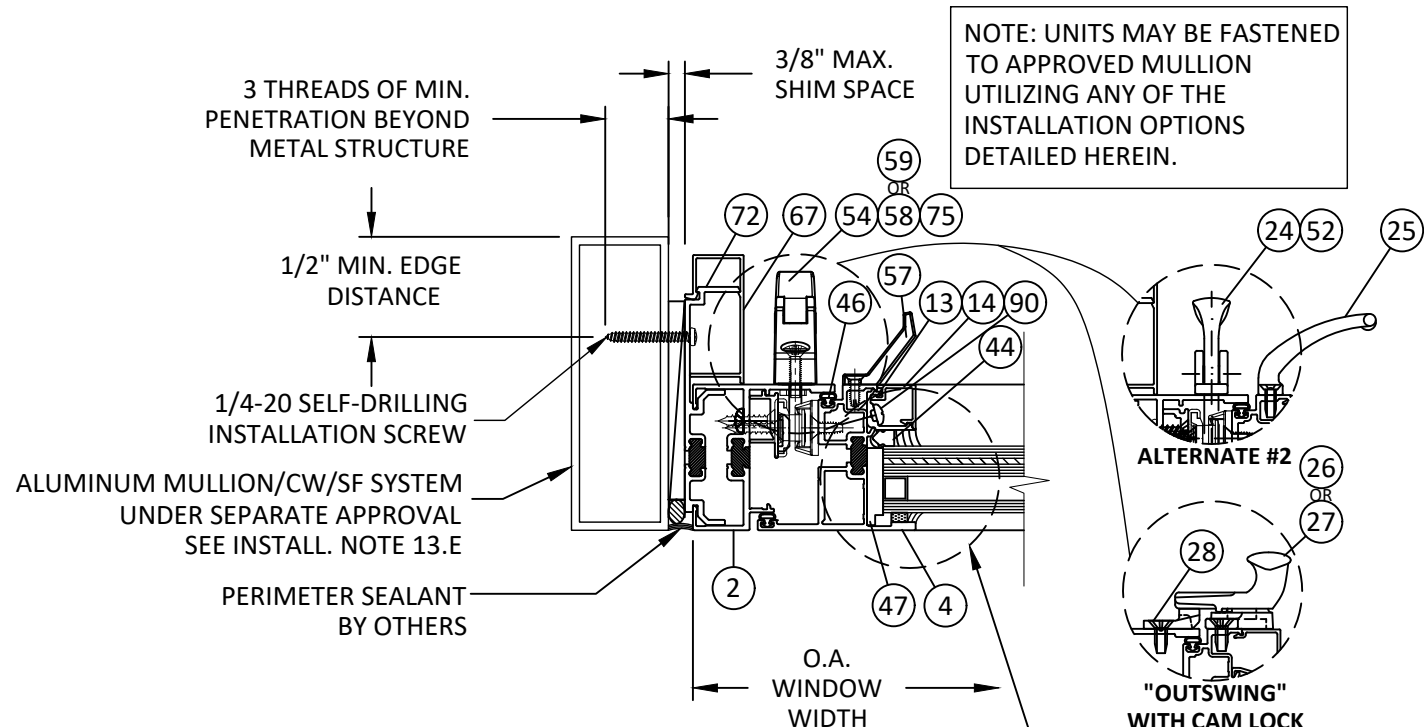
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OF 15

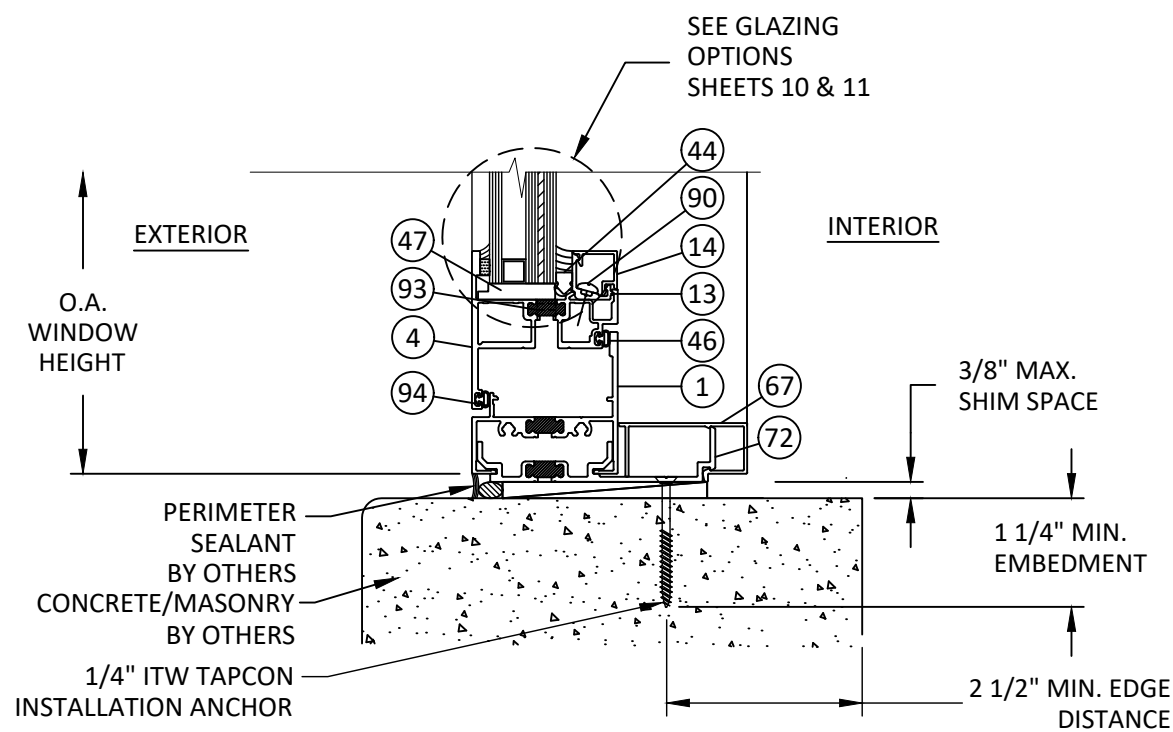
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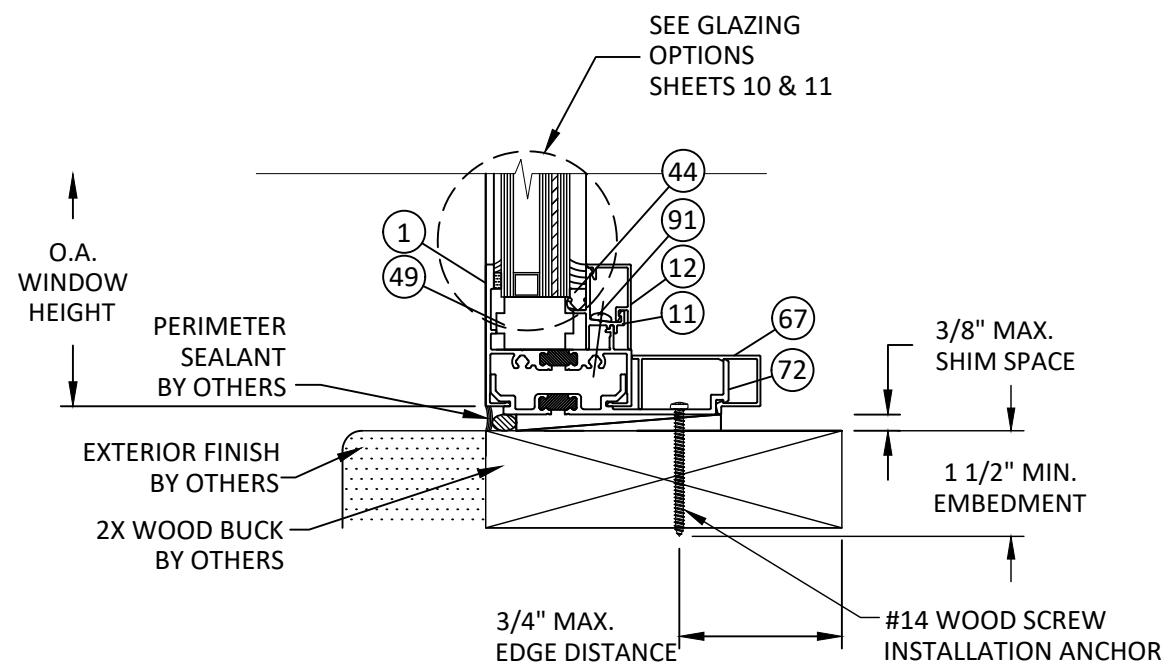
K
6 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP.



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 TUI THERMAL ALUMINUM
CASEMENT WINDOW
(HVBZ) (IMPACT)

STRAP INSTALLATION DETAILS

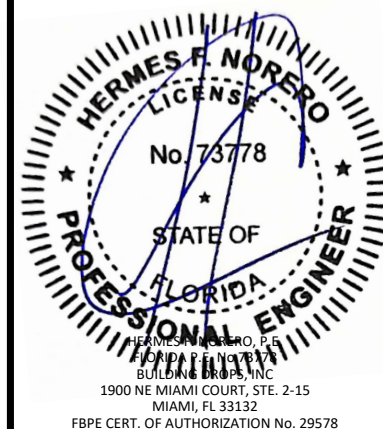
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 999-5478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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2026 FBC CODE UPDATE	SH	07.30.26

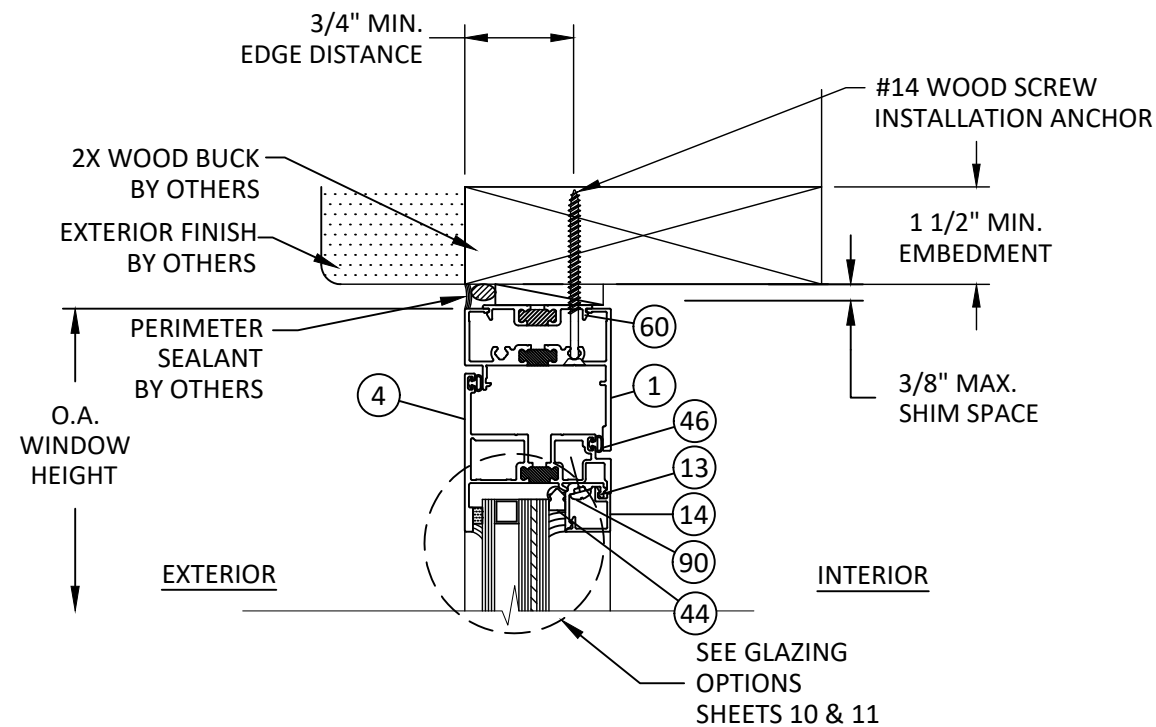
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DWG. #:	YKK013
SHEET:	6
REV.	B

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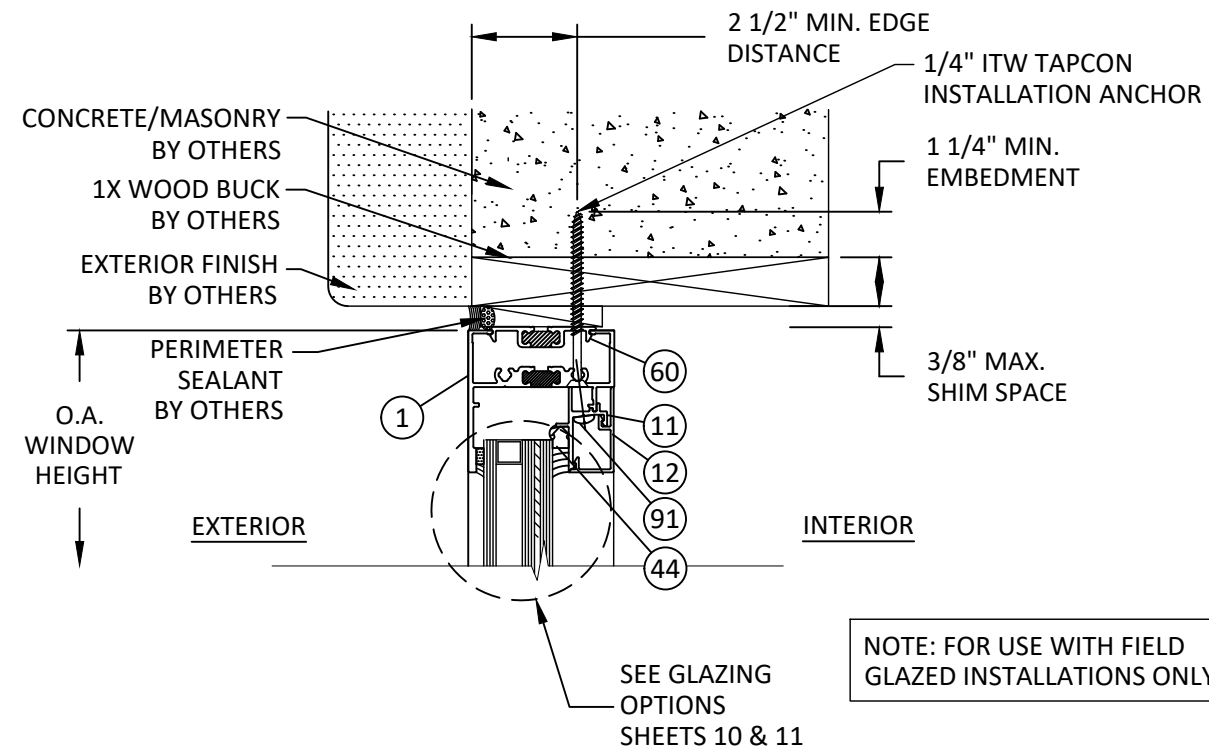
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O
7

VERTICAL SECTION

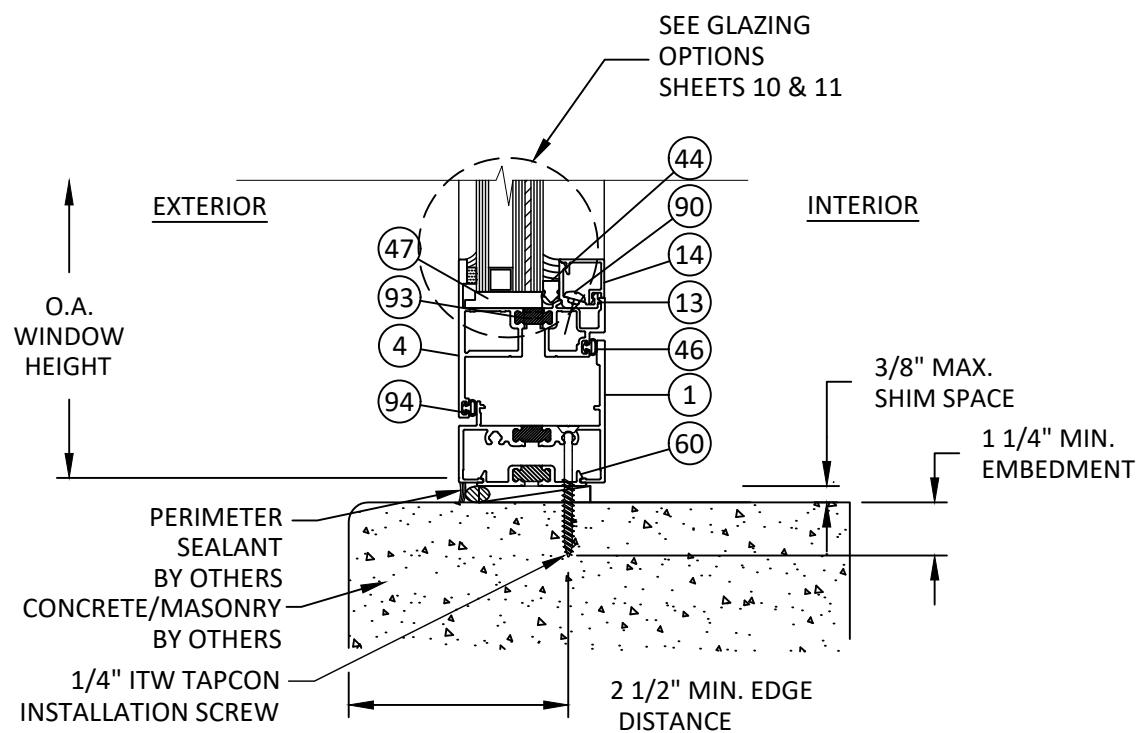
VENT HEAD - 2X WOOD BUCK
THROUGH FRAME - TYP.



P
7

VERTICAL SECTION

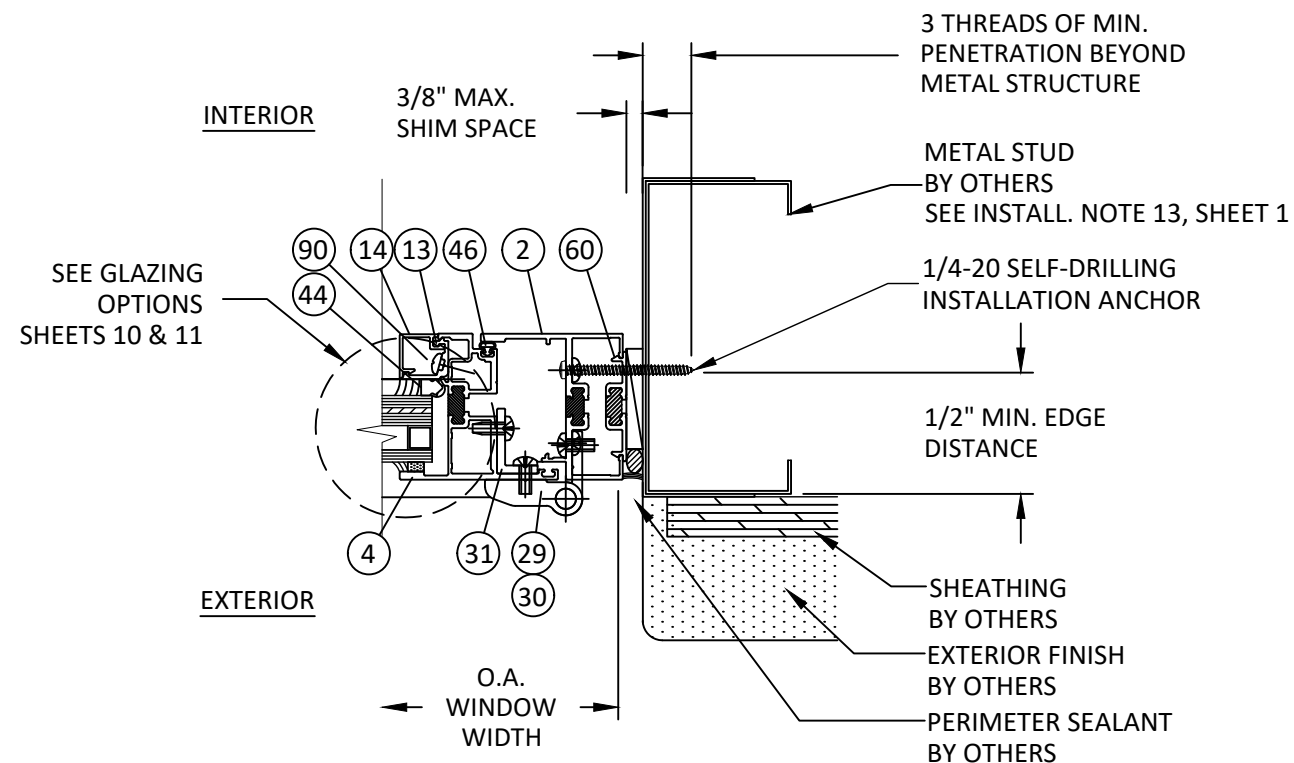
FIXED HEAD - 1X/CONCRETE/MASONRY
THROUGH FRAME - TYP.



N
7

VERTICAL SECTION

VENT SILL - CONCRETE/MASONRY
THROUGH FRAME - TYP.



Q
7

HORIZONTAL SECTION

VENT JAMB - METAL STUD FRAME
THROUGH FRAME - TYP.

NOTE: FOR USE WITH FIELD
GLAZED INSTALLATIONS ONLY.



YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
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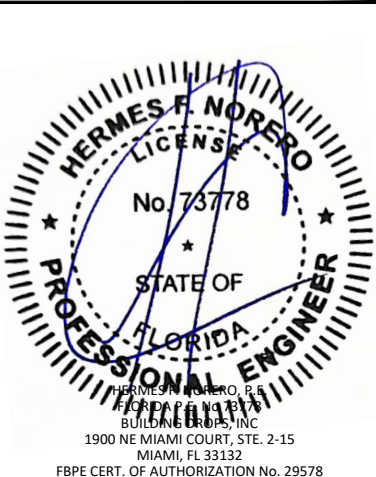
TITLE:
YOW 225 TUI THERMAL ALUMINUM
CASEMENT WINDOW
(HVHZ) (IMPACT)
THROUGH FRAME
INSTALLATION DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)999-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



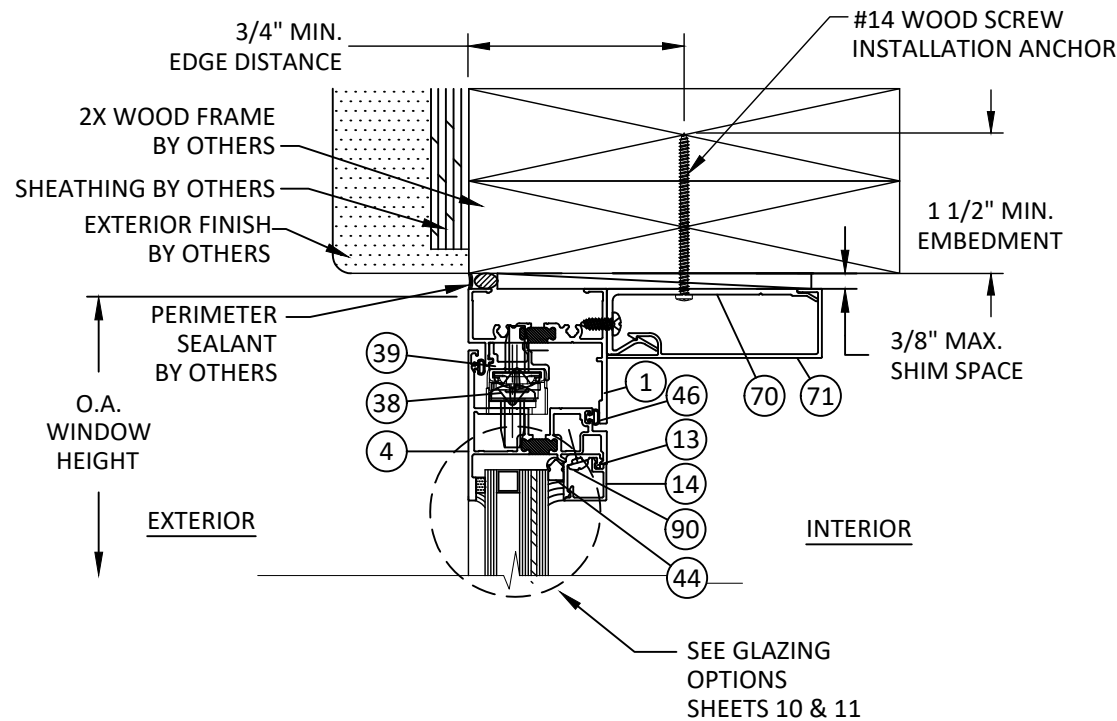
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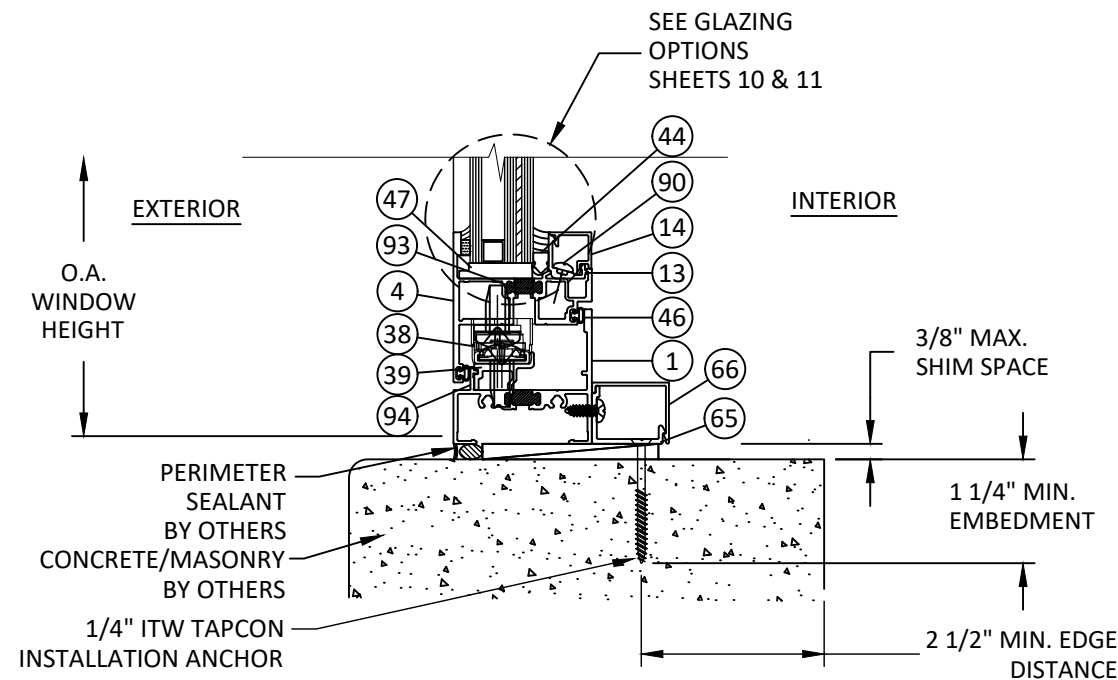


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SCALE:	NTS
DWG. #:	YKK013
SHEET:	7
REV.	B

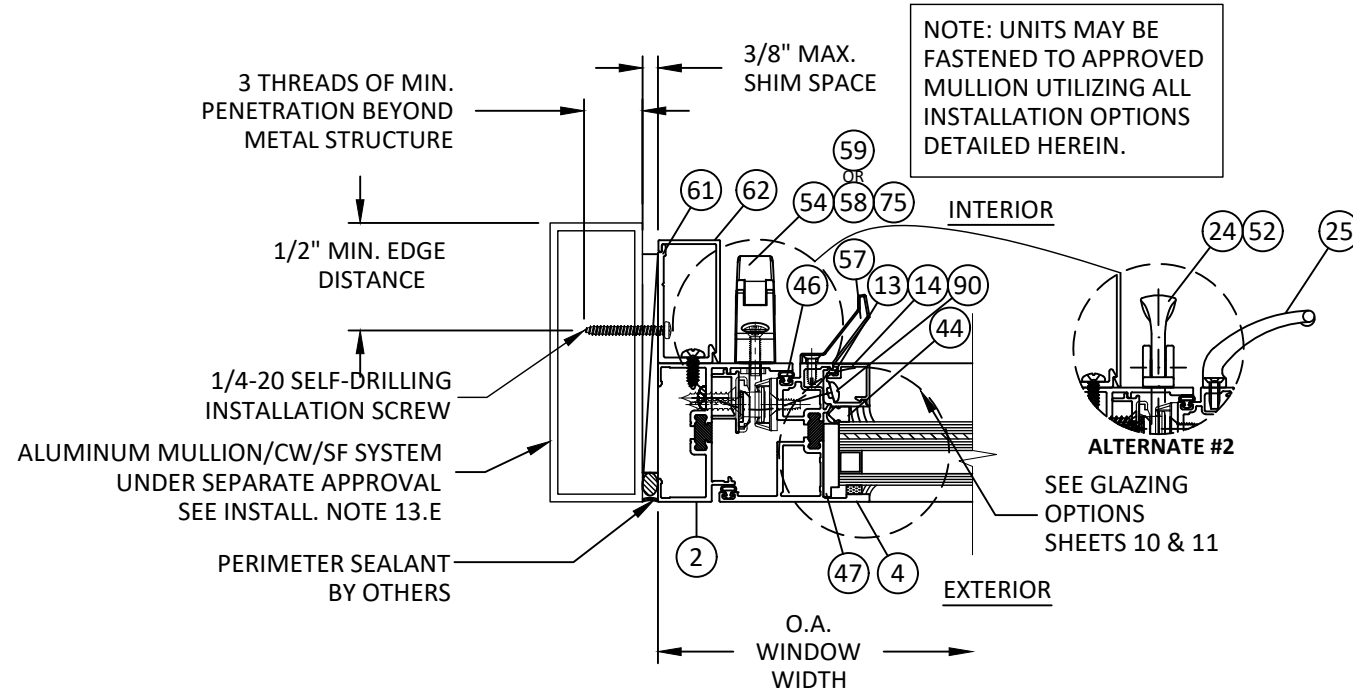
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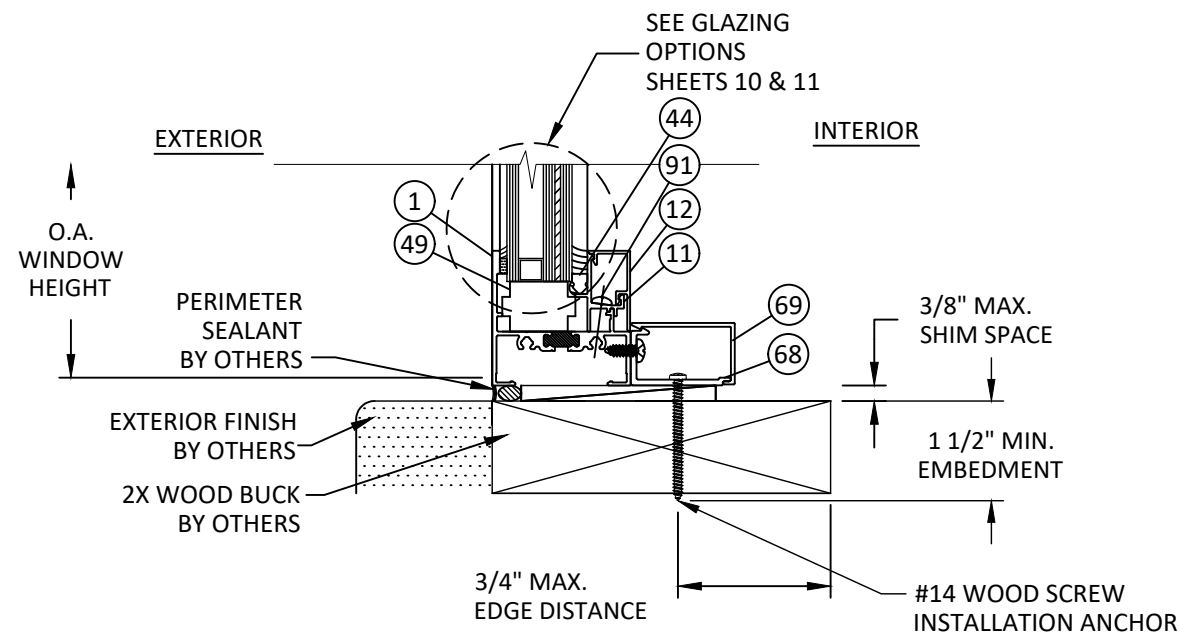
S
8 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TRIM CLIP ANCHOR - TYP.



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



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



U
8 **VERTICAL SECTION**
FIXED SILL - 2X WOOD BUCK
TRIM CLIP 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 TUI THERMAL ALUMINUM
CASEMENT WINDOW
(HVHZ) (IMPACT)

TRIM & CLIP ANCHOR INSTALLATION

PREPARED BY:

BUILDING DROPS, INC.

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

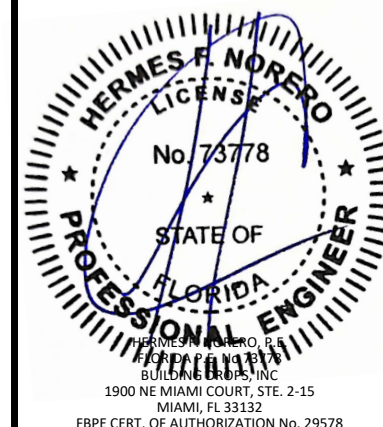
PH: (954)399-8478
FAX: (954)744-4738

WEB: www.buildingdrops.com



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SCALE: **NTS**

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SHEET:

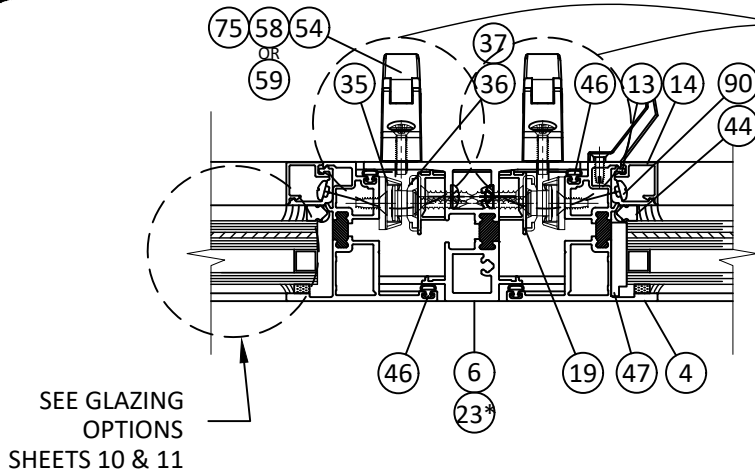
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REV.

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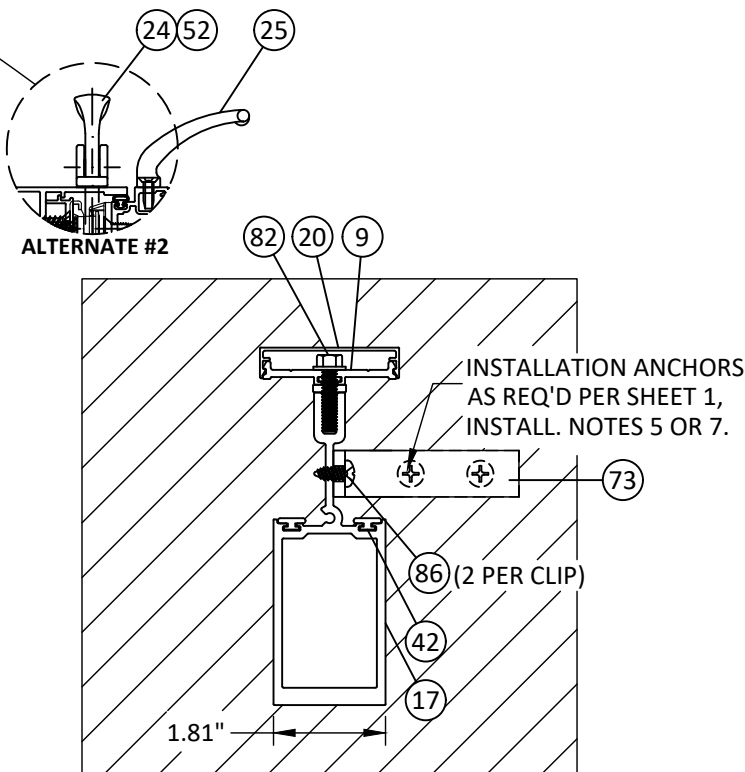
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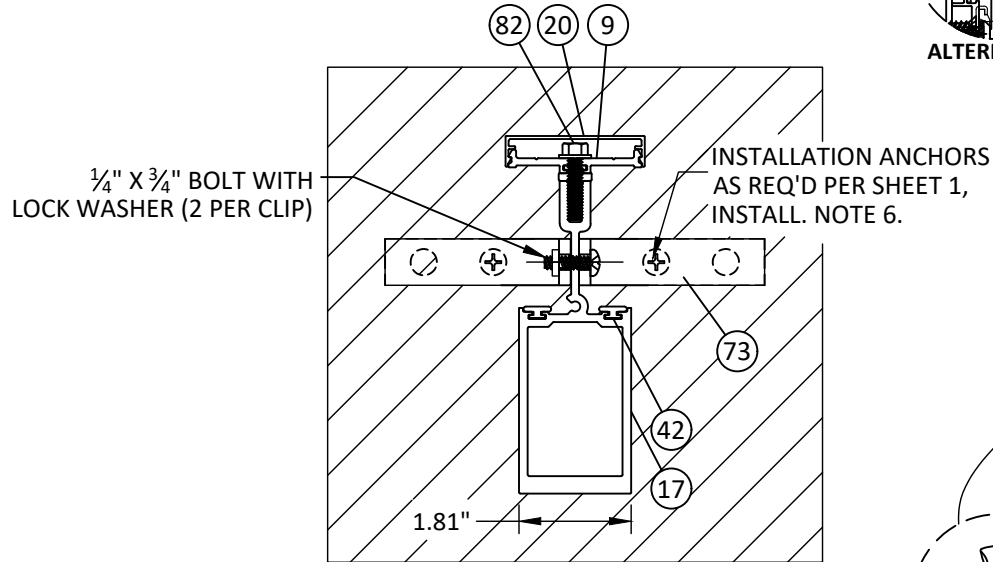


*ITEM#23 MAY BE USED IN LIEU OF ITEM#6 UP TO DESIGN PRESURES OF +/- 65 PSF

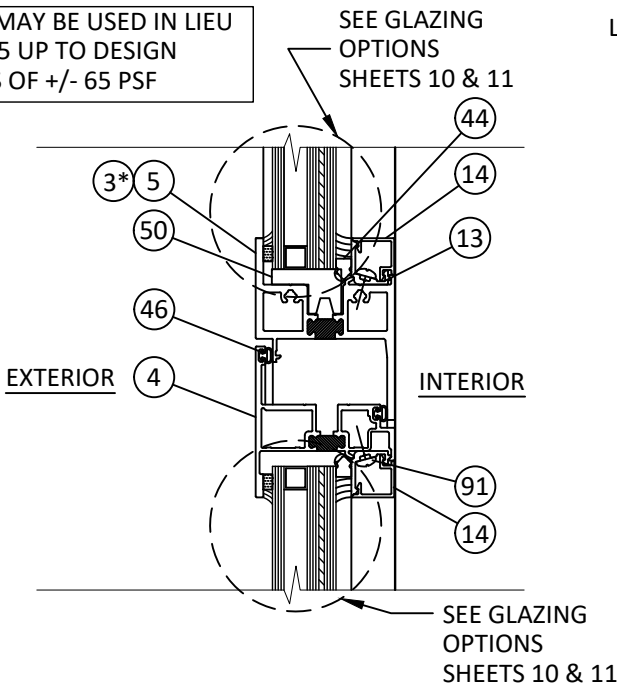
W9 HORIZONTAL SECTION
INTEGRAL MULLION
ALTERNATE # 1



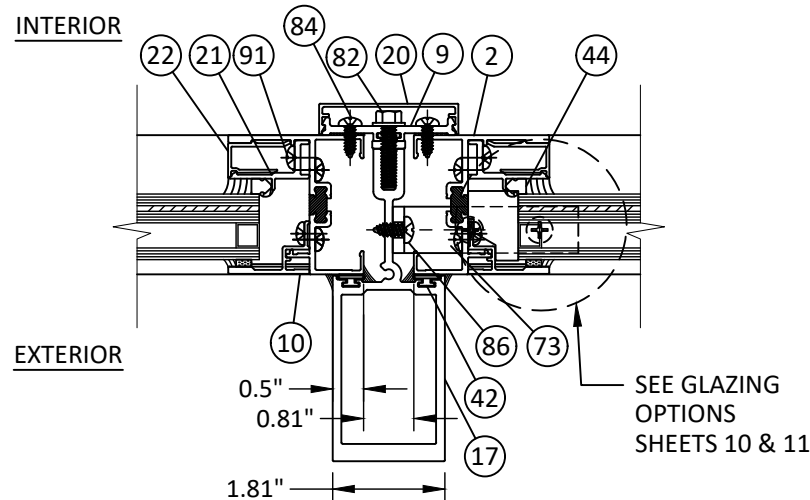
Z9 HORIZONTAL SECTION
STACK MULLION - TYP.
INSTALL TO WOOD/METAL FRAME



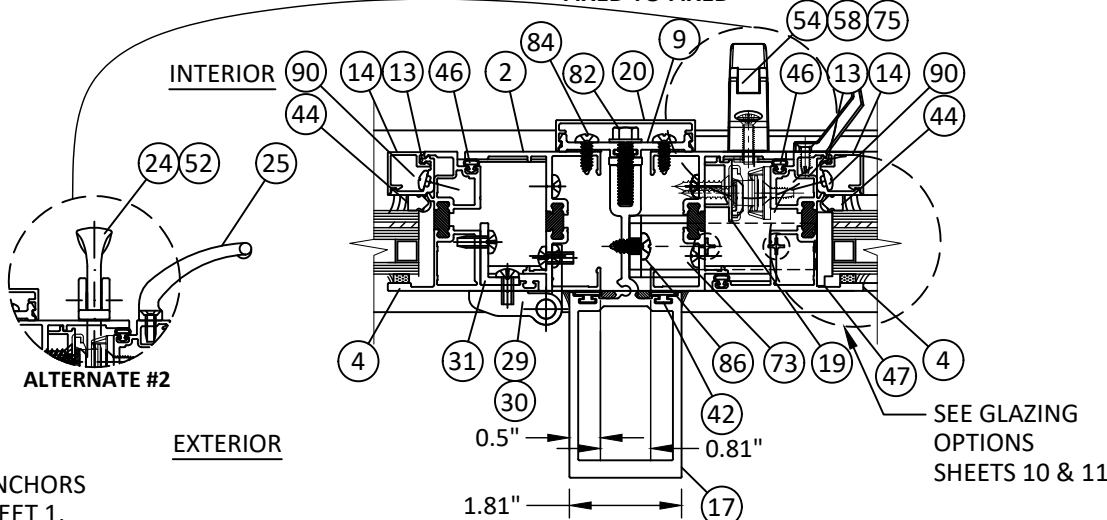
AA9 HORIZONTAL SECTION
STACK MULLION - TYP.
INSTALL TO CONCRETE/MASONRY



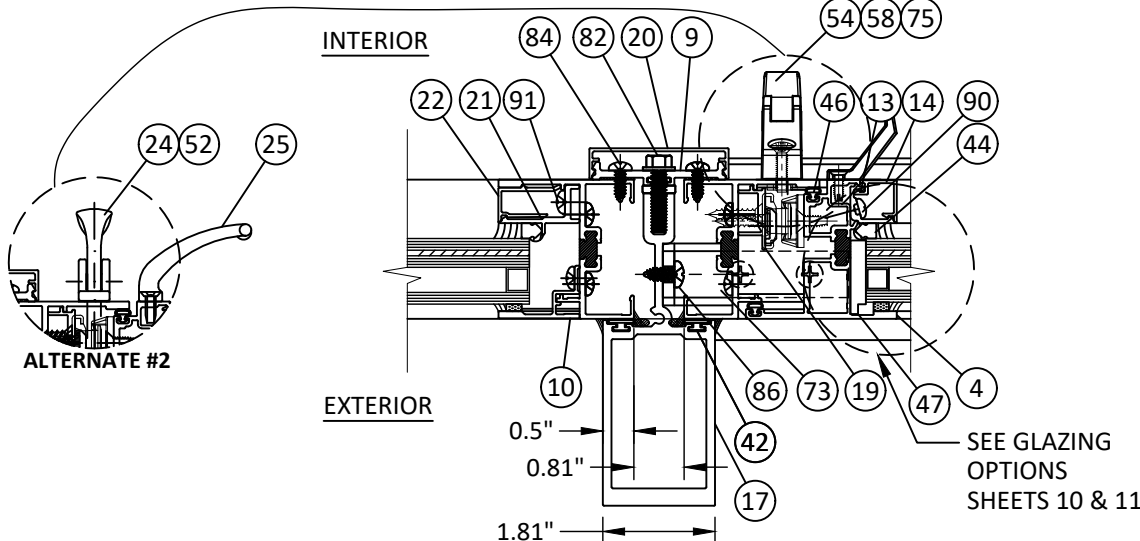
V9 VERTICAL SECTION
INTEGRAL MULLION-TYP.
FIXED OVER CASEMENT



X9 HORIZONTAL SECTION
STACK MULLION - TYP.
FIXED TO FIXED



Y9 HORIZONTAL SECTION
STACK MULLION - TYP.
CASEMENT TO CASEMENT
ALTERNATE #1



AB9 HORIZONTAL SECTION
STACK MULLION - TYP.
FIXED TO CASEMENT / ALTERNATE # 1



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

TITLE: YOW 225 THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT)

INTEGRAL & STACK MULL DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
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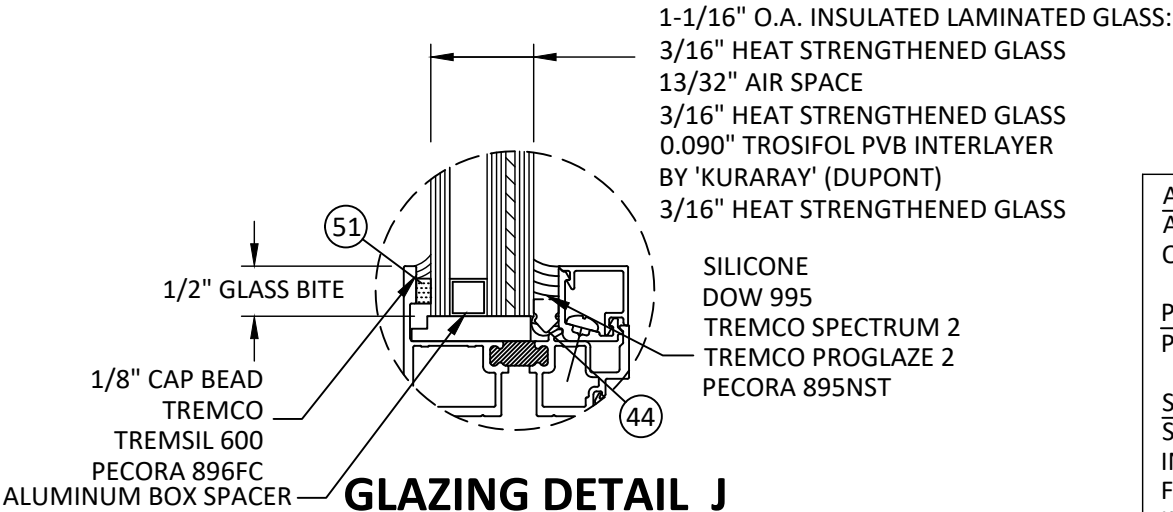
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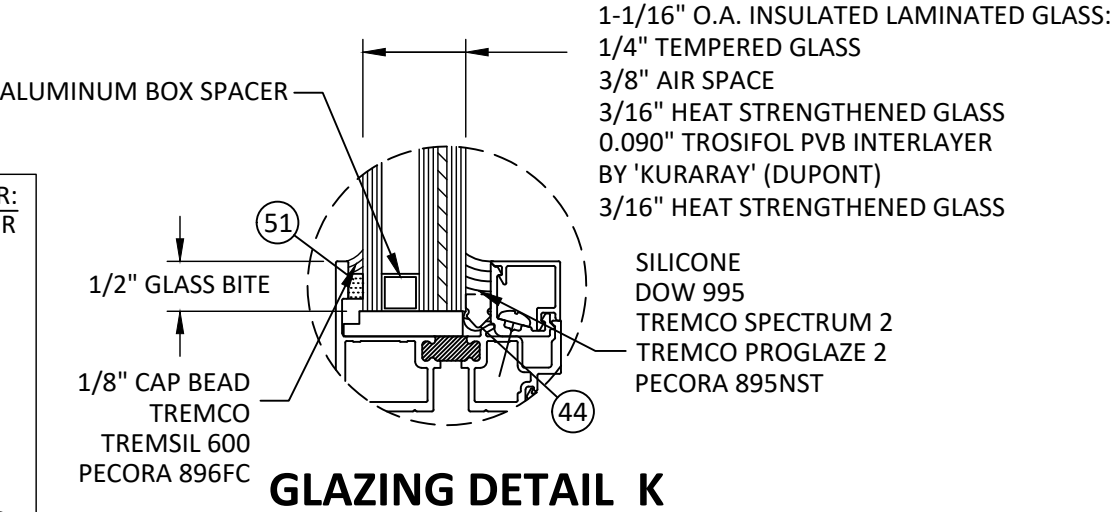
FL #:	FL16312
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DWG. #:	YKK013
SHEET:	9
REV.	B

LARGE MISSILE IMPACT RATED GLAZING OPTIONS
DP +/- 80 PSF @ 42" X 72" MAX. VENT SIZE



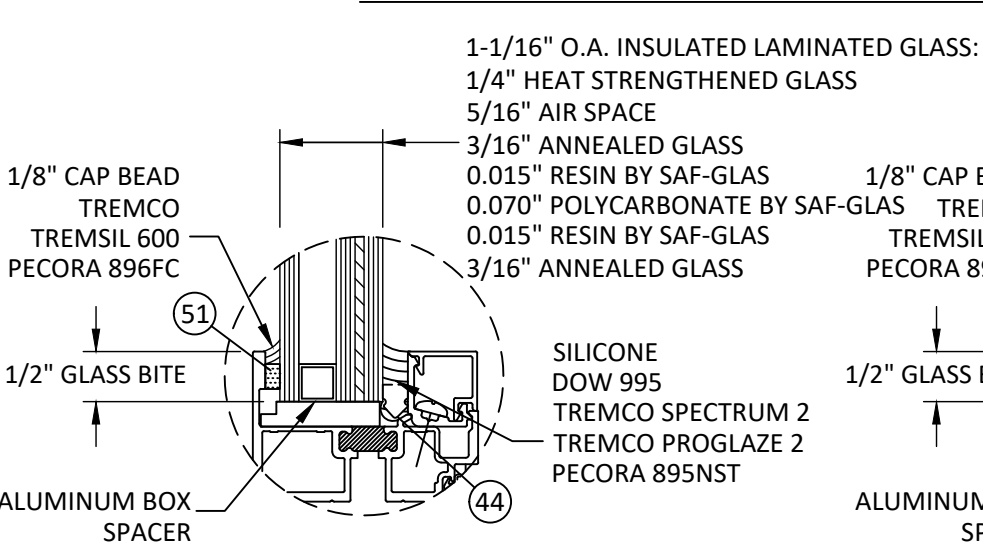
GLAZING DETAIL J

LARGE & SMALL MISSILE IMPACT RATED GLAZING OPTIONS
DP +/- 80 PSF @ 42" X 72" MAX. VENT SIZE

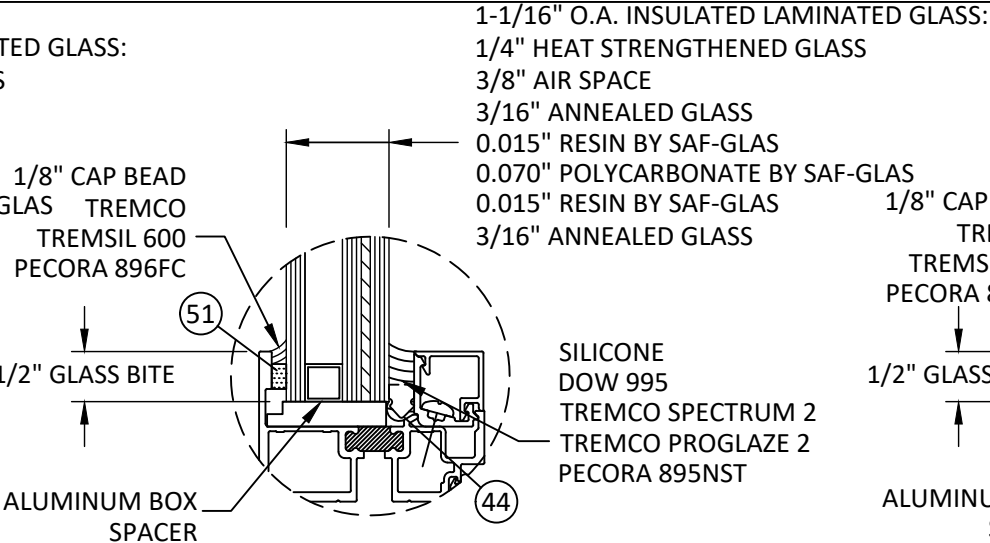


GLAZING DETAIL K

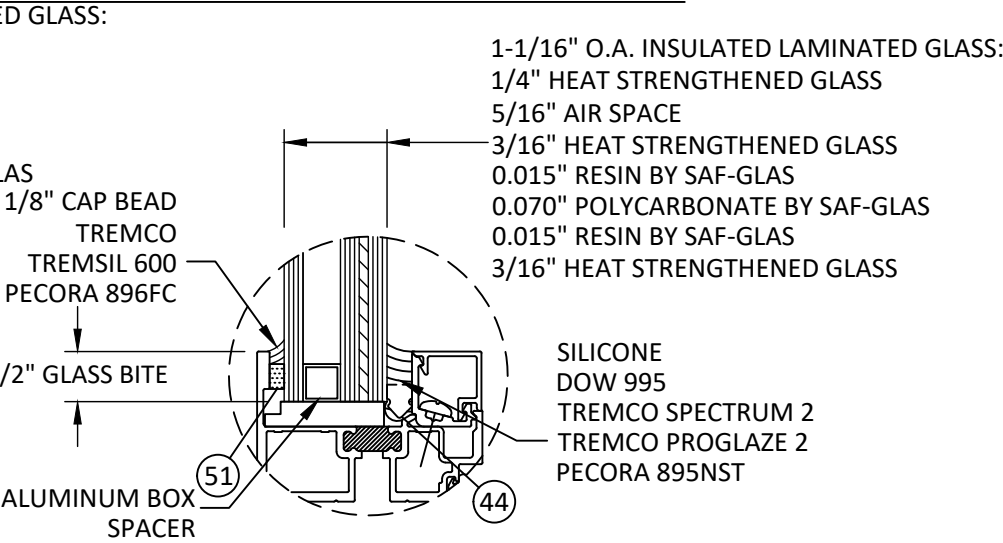
LARGE MISSILE IMPACT RATED GLAZING OPTIONS, DP +/- 65 PSF @ 36 1/8" X 60" MAX. VENT SIZE



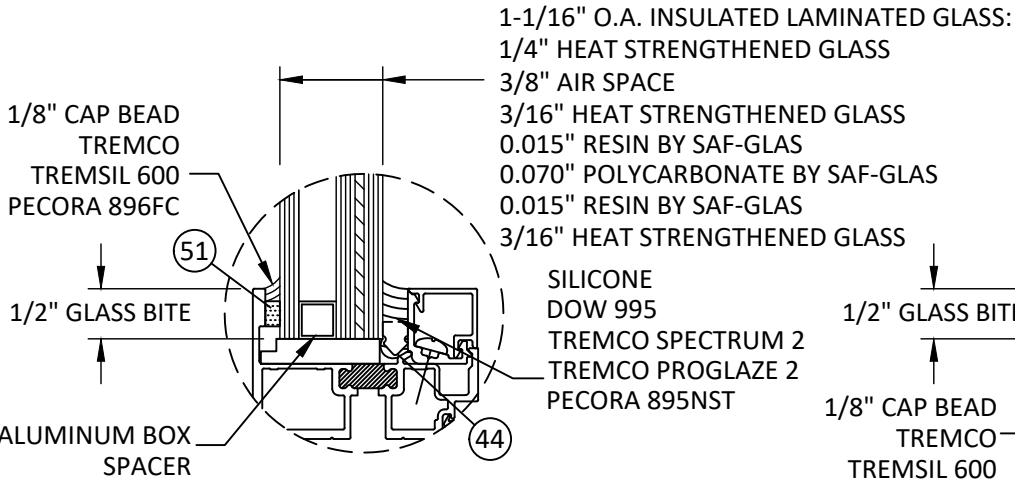
GLAZING DETAIL A1



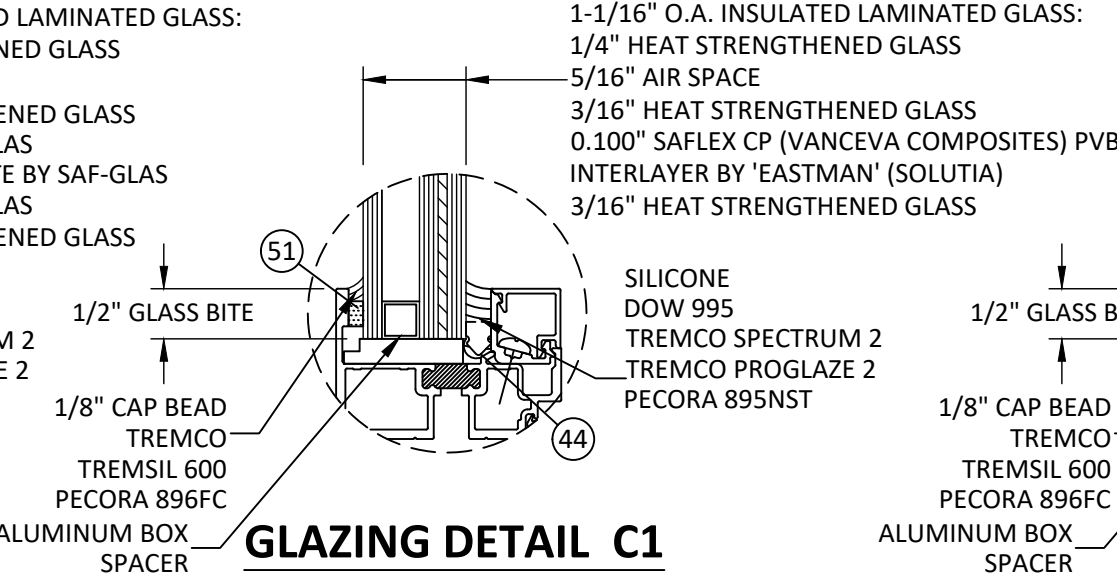
GLAZING DETAIL A2



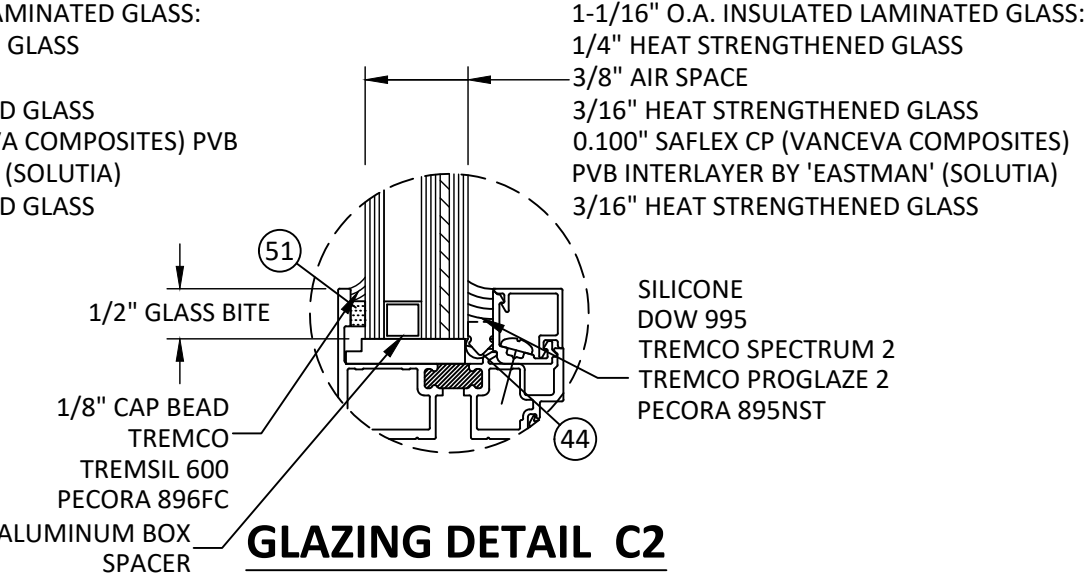
GLAZING DETAIL B1



GLAZING DETAIL B2



GLAZING DETAIL C1



GLAZING DETAIL C2



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

TITLE: YOW 225 TUI THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) GLAZING DETAILS 1

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
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PH: (954)999-8478
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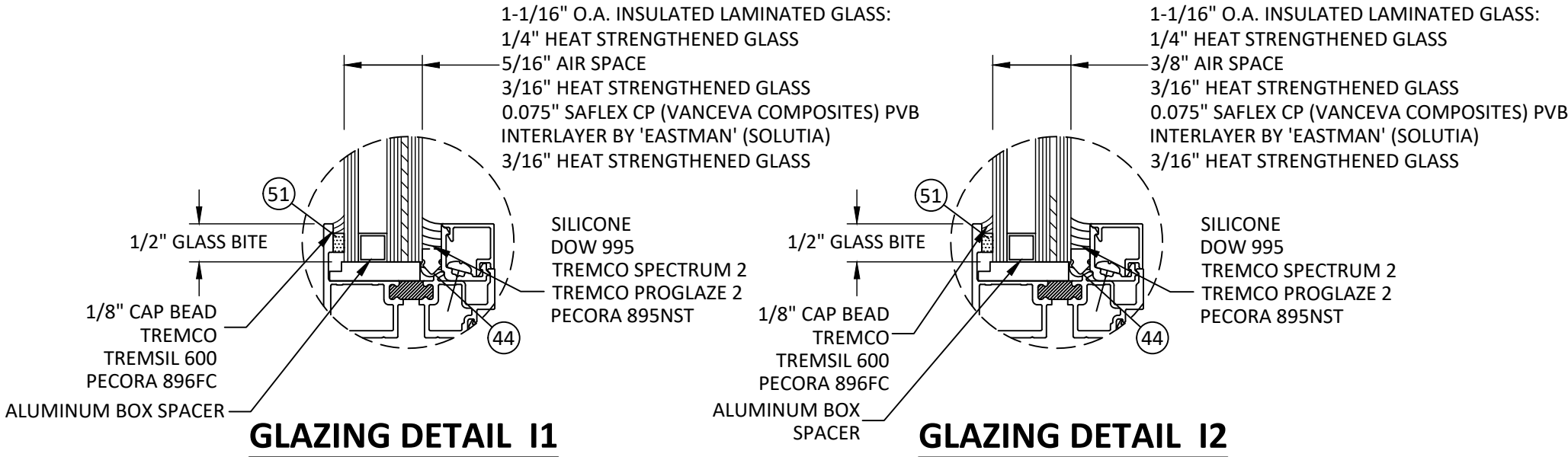
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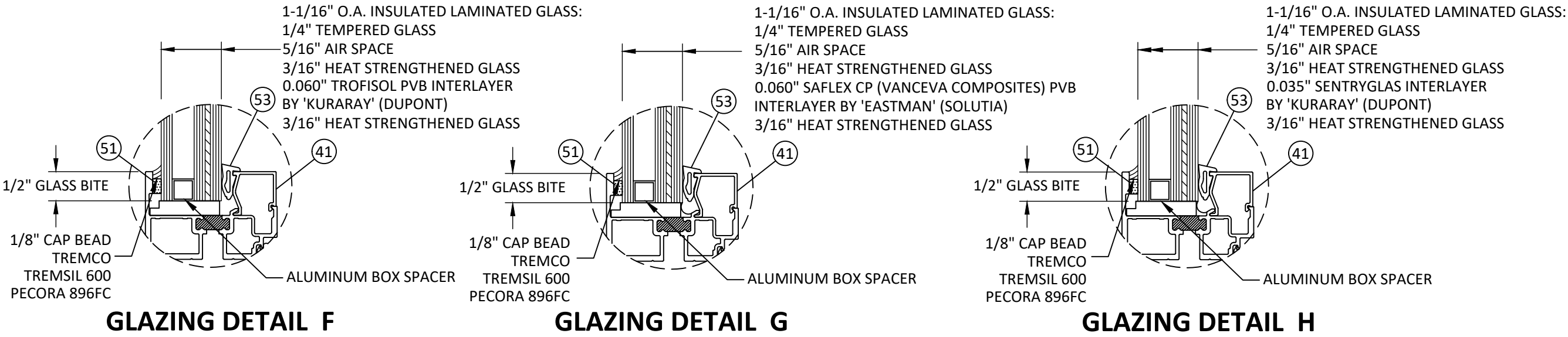


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LARGE MISSILE IMPACT RATED GLAZING OPTIONS, DP +/- 65 PSF @ 36 1/8" X 60" MAX. VENT SIZE (CONT...)



SMALL MISSILE IMPACT RATED GLAZING OPTIONS, DP +/- 65 PSF @ 36 1/8" X 60" MAX. VENT SIZE



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.
- DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLE ON SHEET 1.

ALUMINUM BOX SPACER:

AROUND THE PERIMETER OF THE GLASS

PRIMARY SEALANT:

POLYISOBUTYLENE (PIB)

SECONDARY SEALANT:

STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATED GLASS UNITS.



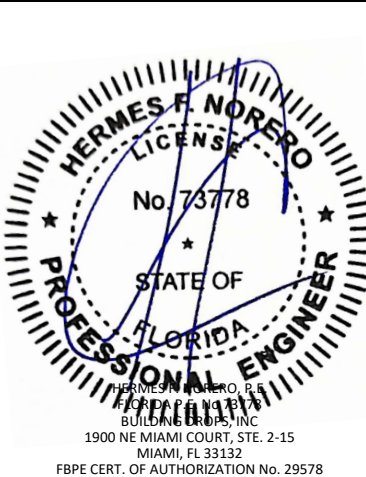
YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 TUI THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT)
GLAZING DETAILS 2

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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DWG. #:	YKK013
SHEET:	11
REV.	B
OF	15

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YOW 225 TUH BILL OF MATERIAL					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
1	BE9-4501	FRAME HEAD AND SILL	6063-T5	YKK-AP	
2	BE9-4502	FRAME JAMB	6063-T5	YKK-AP	
3	BE9-4509	MULLION	6063-T5	YKK-AP	
4	BE9-4534	VENT	6063-T5	YKK-AP	
5	BE9-4560	MULLION	6063-T5	YKK-AP	
6	BE9-4561	MULLION	6063-T5	YKK-AP	
7	BE9-4583	2 1/4" WEEPING SILL FLASHING	6063-T5	YKK-AP	
8	BE9-4577	RECEPTOR	6063-T5	YKK-AP	
9	E9-4231	PRESSURE BAR	6063-T5	YKK-AP	
10	E9-4513	ADAPTOR	6063-T5	YKK-AP	
11	E9-4524	FIXED GLASS STOP	6063-T5	YKK-AP	
12	E9-4525	FIXED SNAP COVER	6063-T5	YKK-AP	
13	E9-4526	VENT GLASS STOP	6063-T5	YKK-AP	
14	E9-4527	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	BE9-4512	MEETING STILE INTEGRAL MULL	6063-T5	YKK-AP	
24	E1-1505	MULTI POINT LOCK HANDLE	WHITE BRONZE	BRONZE CRAFT	
25	E1-1508	PULL HANDLE	WHITE BRONZE	BRONZE CRAFT	
26	E1-1541	CAM HANDLE - LH	WHITE BRONZE	BRONZE CRAFT	
27	E1-1542	CAM HANDLE - RH	WHITE BRONZE	BRONZE CRAFT	
28	E1-1519	KEEPER	WHITE BRONZE	BRONZE CRAFT	
29	E1-1714	BUTT HINGE	6063-T5	YKK-AP	
30	E1-1715	BUTT HINGE - RT	6063-T5	YKK-AP	
31	E1-1723	L-ANGLE FOR BUTT HINGE	6063-T5	YKK-AP	MADE FROM E9-9306
32					
33	E1-1786	CORNER BLOCK	6063-T5	YKK-AP	
34	E1-1787	CORNER BLOCK	6063-T5	YKK-AP	
35	E1-1952	KEEPER	STAINLESS STEEL	ADVANTAGE	
36	E1-1954	LOCK BAR - BASE	SS/ALUMINUM	ADVANTAGE	
37	E1-1955	LOCK BAR - EXTENSION	SS/ALUMINUM	ADVANTAGE	
38	E1-1957	12" 4 BAR EGRESS HINGE	304 SS	ADVANTAGE	
39	E1-1960	4 BAR HINGE BASE	6063-T5	YKK-AP	MADE FROM E9-4591
40	E1-1967	HP SNUBBER KIT BASE	6063-T5	YKK-AP	
41	E9-4506	SMI GLASS STOP	6063-T5	YKK-AP	
42	E2-0051	AT GASKET	SANTOPRENE	TREMCO	
43	E2-0133PC	SIDE BLOCK	EPDM	TREMCO	PEROXIDE CURED
44	E2-0359	PUSH - IN - SPACER	SCR900	TREMCO	1" LONG, 3" FROM CORNER, 10" O.C.
45	E2-0367	PUSH - IN - SPACER	SCR900	TREMCO	
46	E2-0625	AT GASKET	SANTOPRENE	TREMCO	
47	E2-0626PC	SETTING BLOCK	EPDM	TREMCO	PEROXIDE CURED
48					
49	E2-0362PC	SETTING BLOCK	EPDM	TREMCO	PEROXIDE CURED
50	E2-0647PC	SETTING BLOCK	EPDM	TREMCO	PEROXIDE CURED
51	E2-0670	BACKER TAPE	POLYURETHANE FOAM	SAINT GOBAIN	
52	E2-0682	GASKET - RUBBER	BUTYL	BRONZE CRAFT	FOR MULTI LOCK HANDLE

YOW 225 TUH BILL OF MATERIAL					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
53	E2-0672	WEDGE GASKET	EPDM		DUROMETER 70 +/-5
54	E1-1979	HANDLE GASKET	BUTYL	CALDWELL	
55	E3-1132	WEEP COVER	MOLDED POLYAMIDE 6	IPS USA	
56	H-1901	HP - SNUBBER KIT	STAINLESS STEEL	ADVANTAGE	
57	E1-1981	PULL HANDLE	DIE CAST	AMESBURY / TRUTH	
58	E1-1966	STANDARD MULTI LOCK HANDLE	DIE CAST / STEEL	CALDWELL	
59	E1-1994	EXTENDED MULTI LOCK HANDLE	DIE CAST / STEEL	CALDWELL	
60	BE9-4566	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 3/4" X 1" CLIP	6063-T5	YKK-AP	
66	E9-4557	1 3/4" X 1" COVER	6063-T5	YKK-AP	
67	E9-8431	STRAP ANCHOR COVER	6063-T5	YKK-AP	
68	E9-8537	1" X 1 13/16" CLIP	6063-T5	YKK-AP	
69	E9-8538	1" X 1 13/16" COVER	6063-T5	YKK-AP	
70	E9-8562	1 3/8" X 3 1/2" CLIP	6063-T5	YKK-AP	
71	E9-8563	1 3/8" X 3 1/2" COVER	6063-T5	YKK-AP	
72	BE9-4529	STRAP ANCHOR	6063-T5	YKK-AP	MIN. LENGTH 4 1/2"
73	E1-1965	MULLION CLIP at 3/4"	6063-T5	YKK-AP	
74					
75	E1-1980	BACKER PLATE	300 SS	CALDWELL	
76	FF-0808-SS	#8 X1/2" FH SMS SS F	300 SS		FOR PULL HANDLE
77	FF-1006-SS	#10-24-3/8" FH SMS SS F	300 SS		FOR LOCK BAR BASE
78	FF-1008-SS	#10 X 24 FH MS SS F	300 SS		FOR FOR SNUBBER TO VENT AND KEEPER
79	FF-1012-SS	#10-24 X 3/4" FH MS SS F	300 SS		FOR 4 BAR HINGE BASE AND ROLLER BASE
80	FF-1016-SS	#10-24 X 1" FH MS SS F	300 SS		FOR SNUBBER TO FRAME AND LOCK BAR
81	FM-1006-SS	#10-24 X 3/8" FH MS SS F	300 SS		FOR MULTI LOCK HANDLE
82	HD-2516-W3	1/4-20 X 1" HWHS SS	300 SS		1 1/2" FROM EA. END & 9" MAX. O.C.
83	PC-0808	#8 X 1/2" PH SMS SS AB	300 SS		FOR GUIDE ROLLER
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	PF-1008-SS	#10 X 1/2" PH SMS SS F	300 SS		FOR BUTT HINGE ANGLE
89	PM-1007-SS	#10-24 X 7/16" PH MS SS	300 SS		FOR BUTT HINGE
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		PECORA 895NST SILICONE ADHESIVE	SILICONE		
99		TREMCO SPECTRUM 2 ADHESIVE	SILICONE		
100		TREMCO PROGLAZE 2 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			

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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 TUH THERMAL ALUMINUM
CASEMENT WINDOW
(HVHZ) (IMPACT)

BILL OF MATERIALS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)999-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BD

BUILDING DROPS

REMARKS	BY	DATE
2023 FBC CODE UPDATE	MS	05.05.23
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

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:

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CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK013

SHEET:

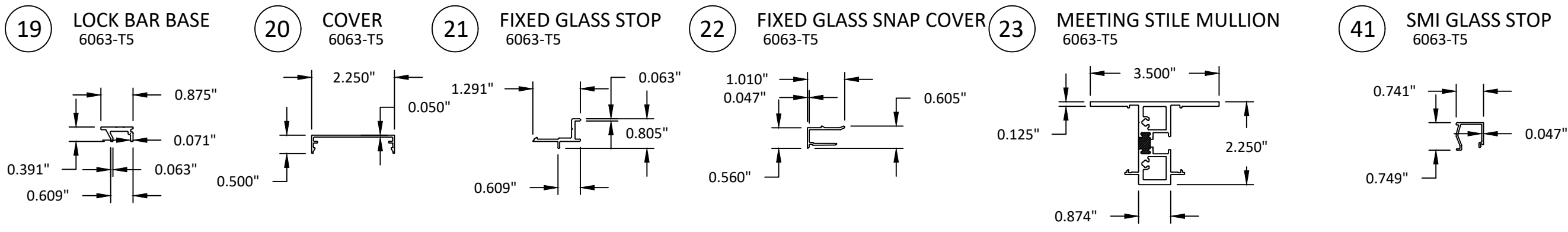
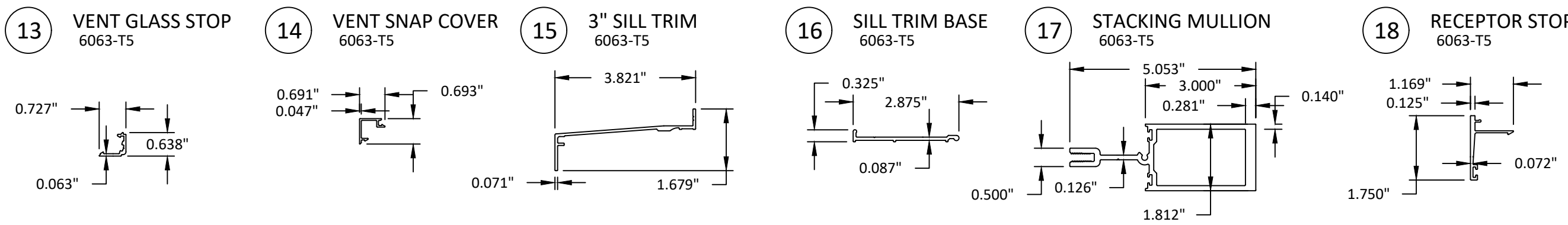
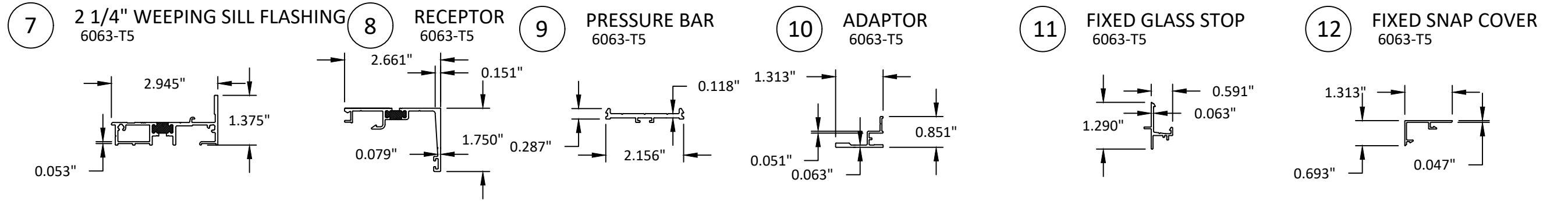
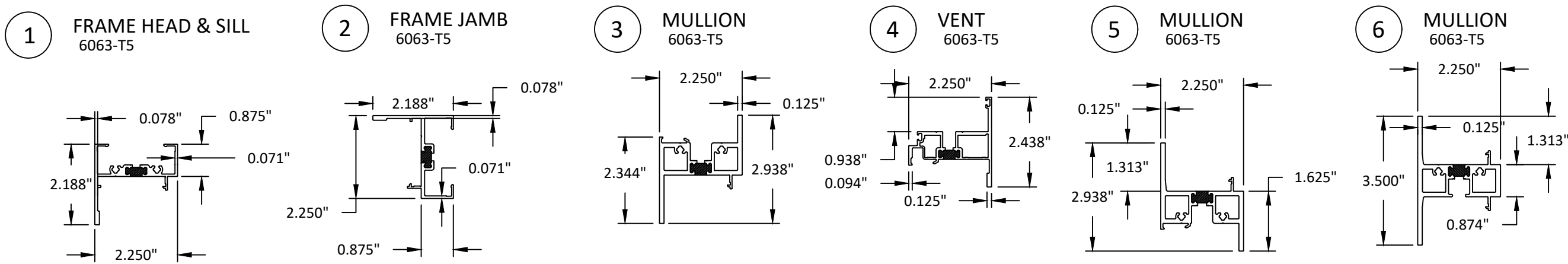
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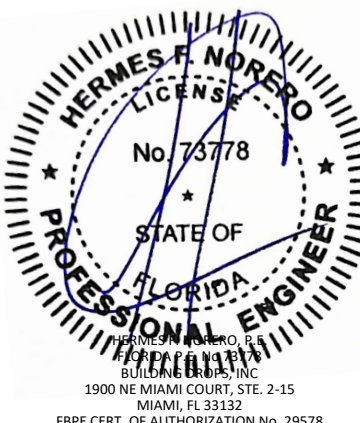
TITLE: YOW 225 TUI THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) COMPONENTS 1

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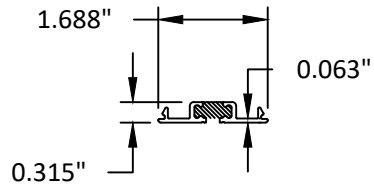
HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	
FL16312	
DATE: 10.16.17	
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SCALE: NTS	
DWG. #: YKK013	
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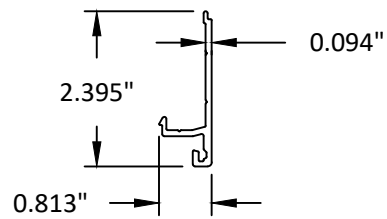
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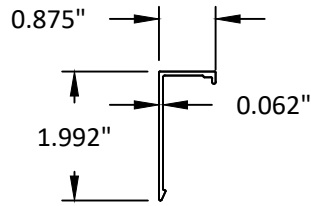
60 THROUGH FRAME FILLER PLATE
6063-T5
MINIMUM 3" LENGTH



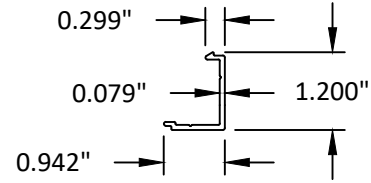
63 ANCHOR CLIP
6063-T5



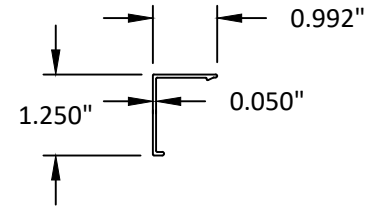
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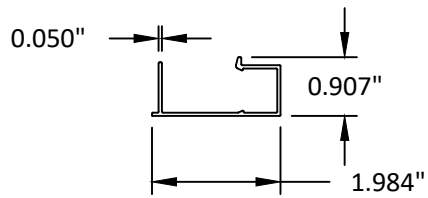
65 1 1/4" X 1" CLIP
6063-T5
CONTINUOUS



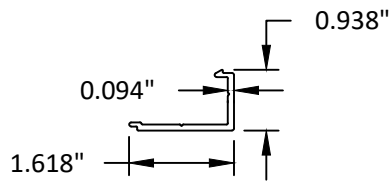
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6063-T5



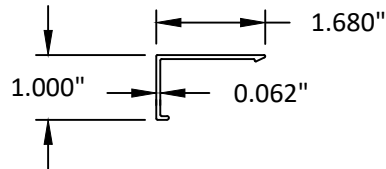
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6063-T5



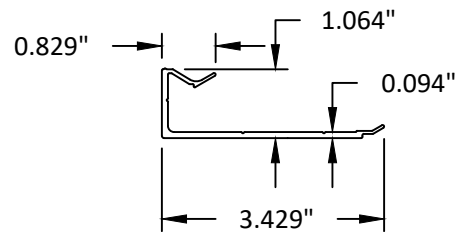
68 1" X 1 11/16" CLIP
6063-T5
CONTINUOUS



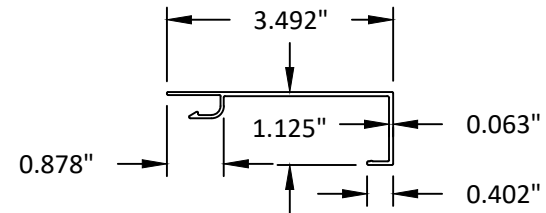
69 1" X 1 11/16" COVER
6063-T5



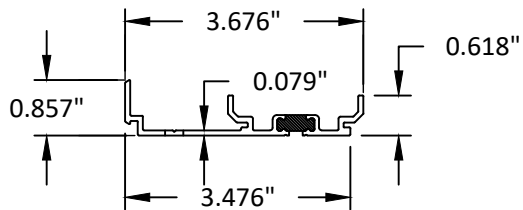
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6063-T5



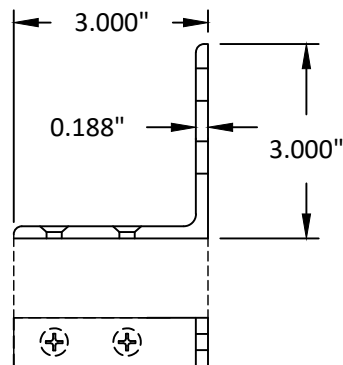
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6063-T5



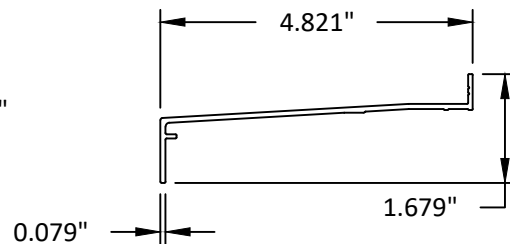
72 STRAP ANCHOR
6063-T5
MINIMUM 4 1/2" LENGTH



73 MULLION CLIP
6063-T5



102 4" SILL TRIM
6063-T5



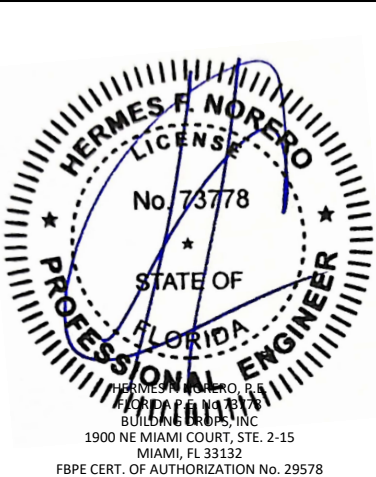
YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 TUI THERMAL ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) COMPONENTS 2

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)999-8478
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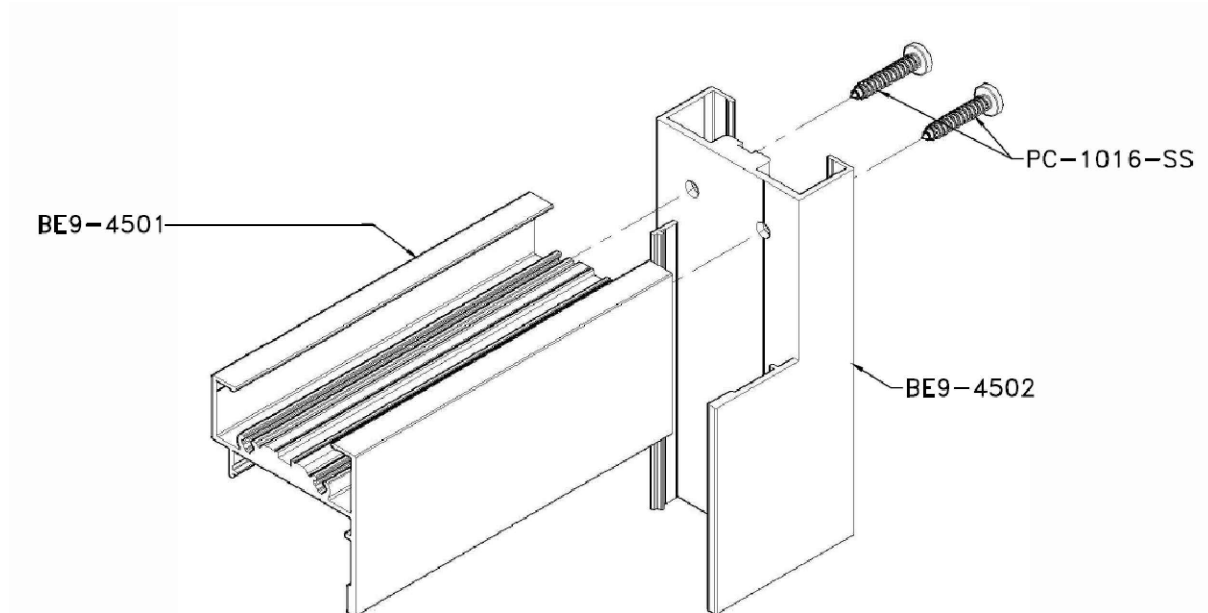
REMARKS	BY	DATE
2023 FBC CODE UPDATE	MS	05.05.23
2026 FBC CODE UPDATE	SH	07.30.26

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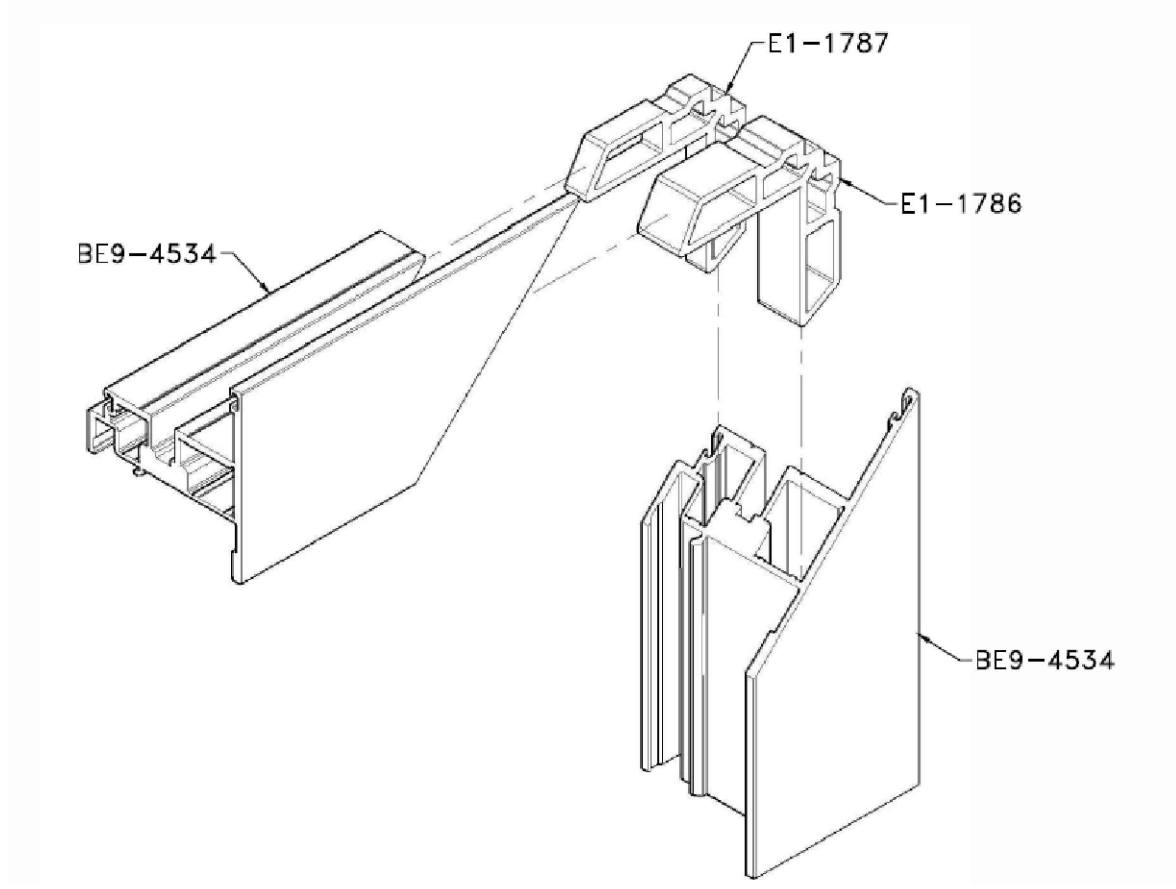


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DATE:	10.16.17
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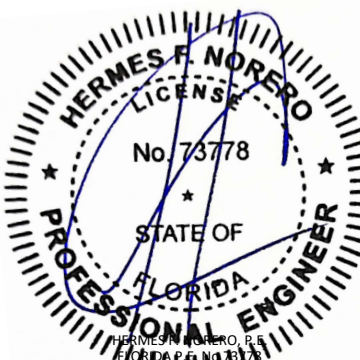
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 THERMAL ALUMINUM
CASEMENT WINDOW
(HVHZ) (IMPACT)
CORNER CONSTRUCTION

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
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MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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