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INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION UNLESS OTHERWISE SHOWN.
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. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
9. 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).
- 10.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.
- 11.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.
- 12.INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

E. ALUMINUM - MINIMUM 0.067 INCH THICK, 6063-T5 ALUMINUM.
- 13.INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEMS.

YKK AP America Inc.

YOW 225 TUH THERMAL ALUMINUM

PROJECT OUT 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.
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 SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEETS 10 & 11 FOR GLAZING DETAILS.
9. GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS PER CHAPTER 24 OF CURRENT FBC.
- 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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12	BILL OF MATERIALS
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PROJECT OUT DESIGN PRESSURE TABLE				
GLAZING TYPES	MAX. VENT SIZE	MAX. FIXED DLO SIZE	MAX. DP	IMPACT RATING
A1, A2	60" X 36"	57-5/8" X 43 1/16"	+65/-65 PSF	LMI
B1, B2, C1, C2, I1, I2	60" X 36"	57 5/8" X 29 3/4"	+65/-65 PSF	LMI
F, G, H	60" X 36"	57-5/8" X 43 1/16"	+65/-65 PSF	SMI
J	42" X 45"	39 5/8" X 43 3/16"	+80/-80 PSF	LMI
	60" X 36"	57-5/8" X 43 1/16"	+65/-65 PSF	
K	42" X 45"	39 5/8" X 43 3/16"	+80/-80 PSF	LMI & SMI
	60" X 36"	57-5/8" X 43 1/16"	+65/-65 PSF	

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.

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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
PROJECT OUT WINDOW
(HVHZ) (IMPACT)

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

7TH FBC CODE CHANGE

MS

04.16.20

MISC UPDATES

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09.26.22

8TH FBC CODE CHANGE

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9TH FBC CODE CHANGE

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Reason: I am approving this document
Date: 2026.08.03 14:10:35 -04'00'

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 #:

FL16313

DATE:

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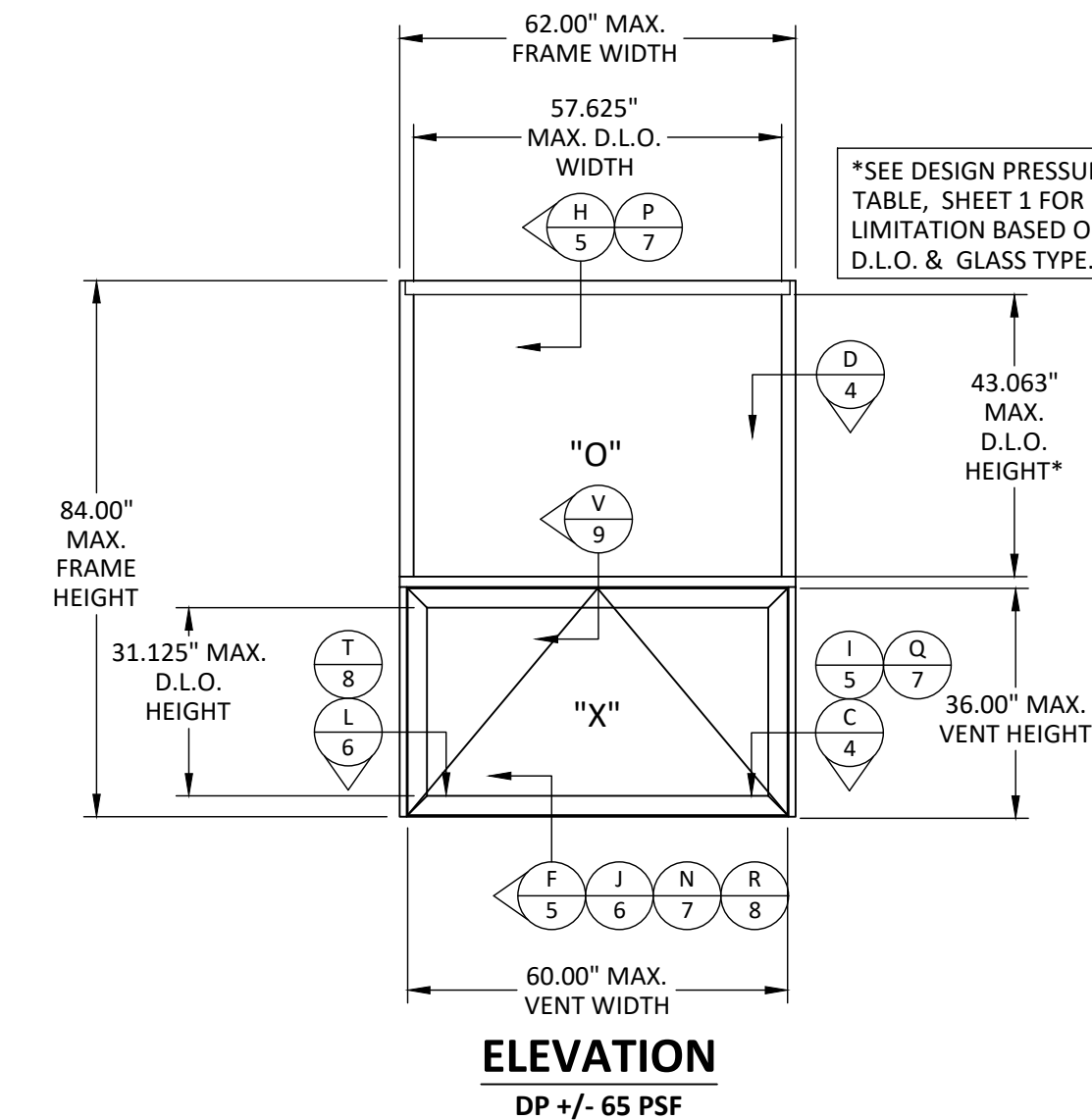
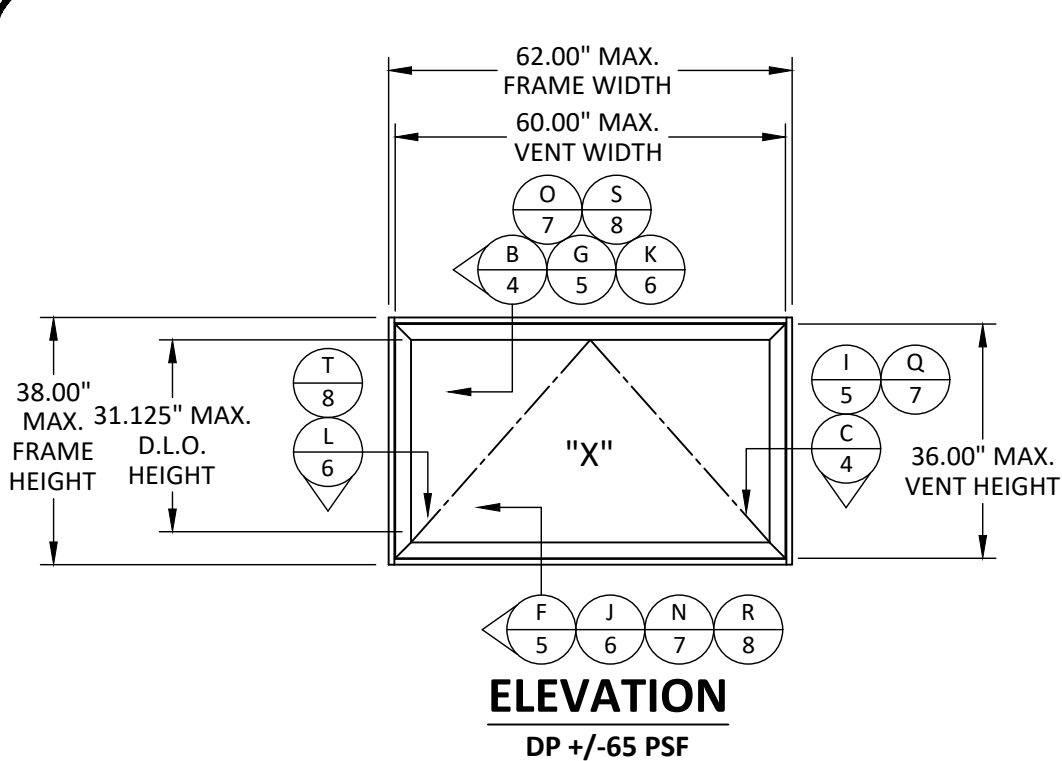
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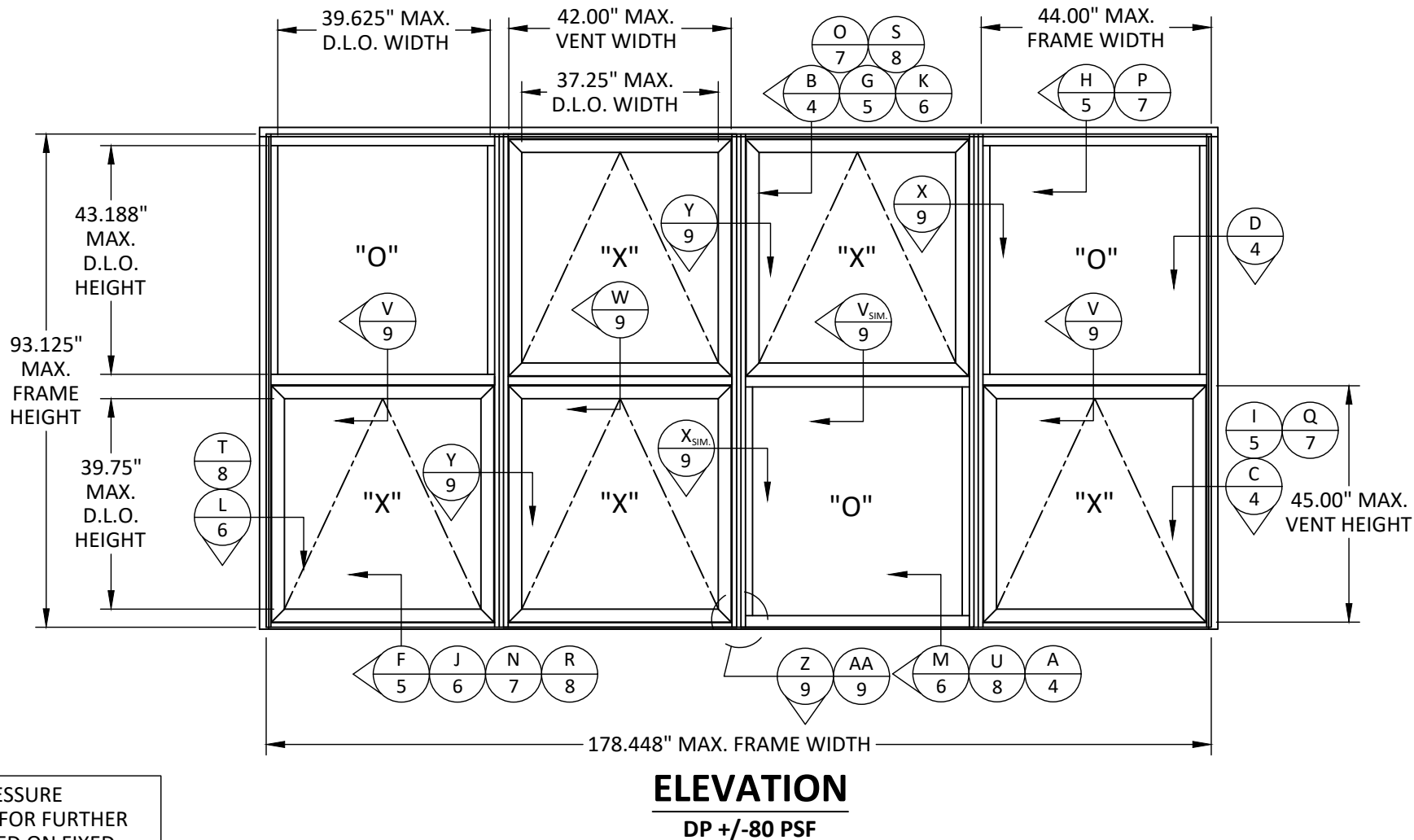
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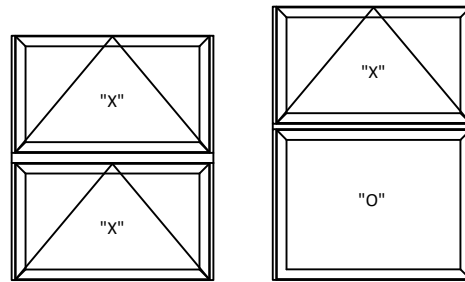
*SEE DESIGN PRESSURE TABLE, SHEET 1 FOR FURTHER LIMITATION BASED ON FIXED D.L.O. & GLASS TYPE.

NOTE: MAX. SIZE VARIES BASED ON TOTAL AREA.

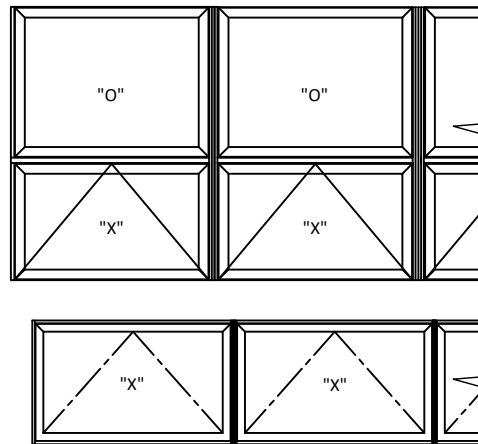
NOTE: MAX. DIMENSIONS SHOWN MAY EXCLUDE RECEPTOR DIMENSIONS. SEE DETAILS SHEET 4 FOR O.A. DIMENSION LOCATIONS.



QUALIFIED CONFIGURATIONS



NOTE: UNITS MAY UTILIZE INTEGRAL MULLS FOR FIXED OVER PROJECT OUT, PROJECT OUT OVER FIXED, OR PROJECT OUT OVER PROJECT OUT CONFIGURATIONS. ADDITIONALLY, ALTERNATE WINDOW TYPES MAY BE MULLED WITH APPROVED WINDOWS. MAX. AREA SHALL NOT BE EXCEEDED AS SHOWN HEREIN.



NOTE: UNITS MAY BE MULLED SIDE BY SIDE IN COMBINATIONS OF PROJECT OUT/FIXED, PROJECT OUT/PROJECT OUT, AND/OR OTHER APPROVED WINDOW TYPES (SEE APPROVED INSTALLATION INSTRUCTIONS YKK013 & YKK015). MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL. FIXED WINDOWS AND OTHER ALTERNATE WINDOW TYPES UNDER SEPARATE APPROVAL.



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

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PROJECT OUT WINDOW
(HVHZ) (IMPACT)
ELEVATIONS & QUALIFIED
CONFIGURATIONS

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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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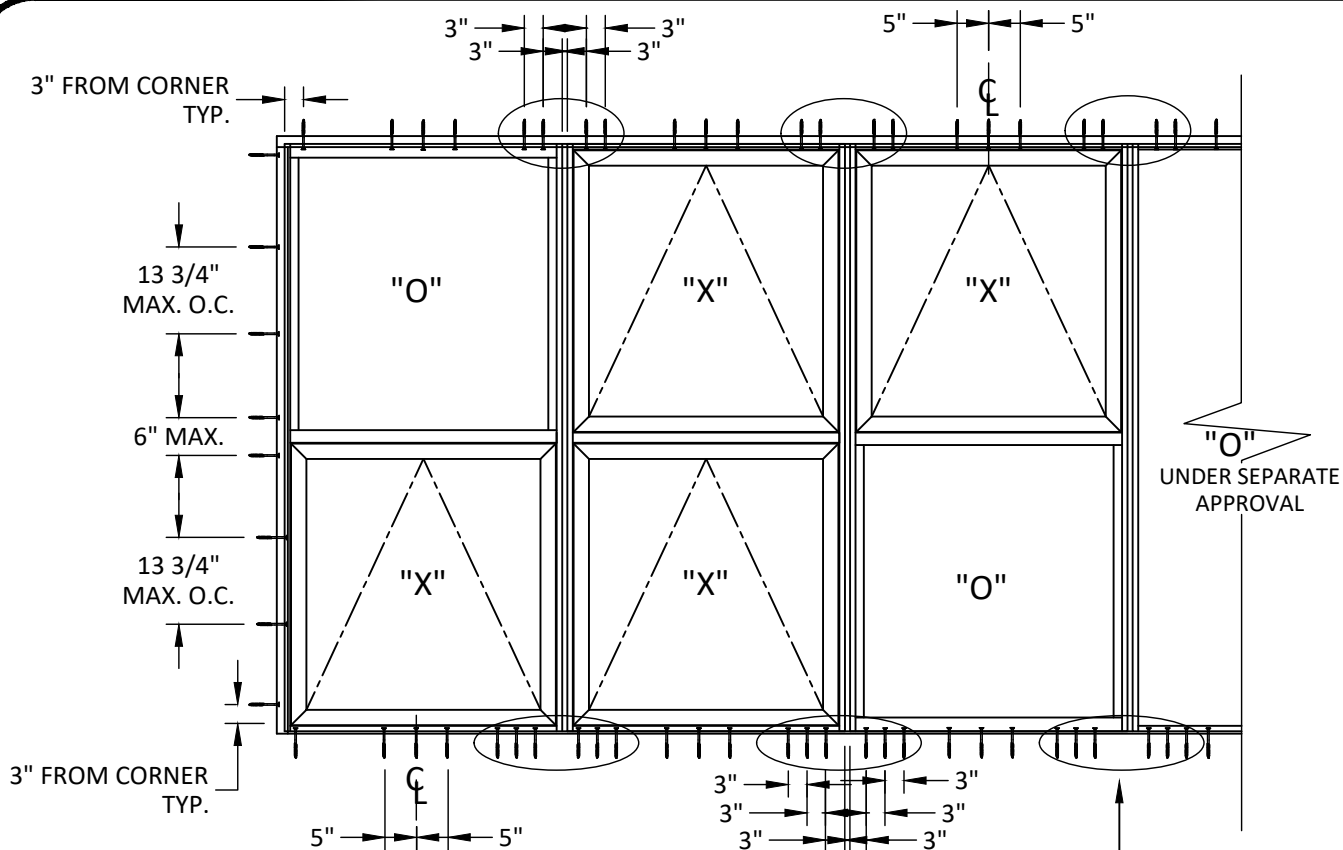
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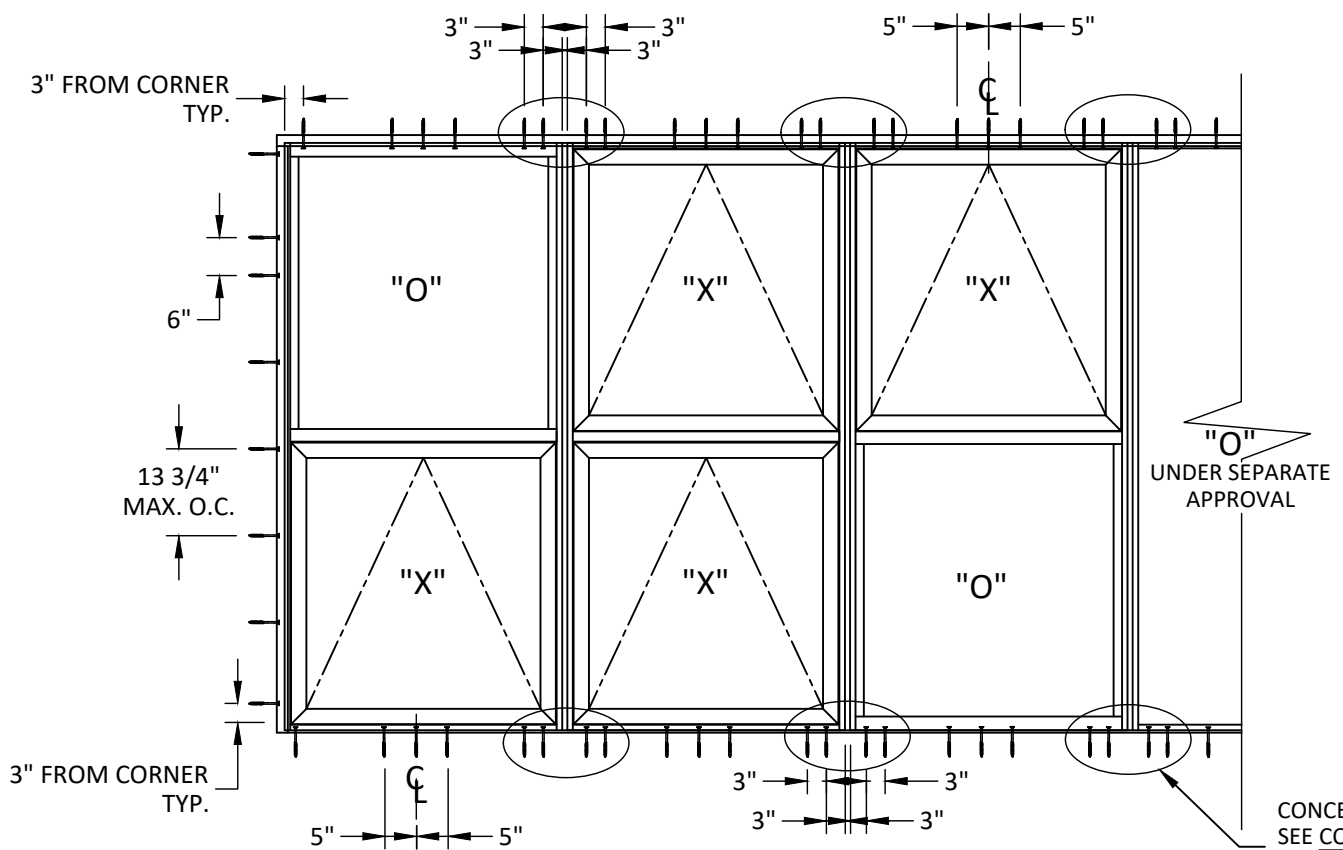
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**ANCHOR LAYOUT
RECEPTOR INSTALLATIONS**

CONCENTRATED ANCHORS - TYP.
SEE CONCENTRATED ANCHOR TABLE
FOR INSTALLATION REQUIREMENTS
DEPENDENT ON DESIGN LOADS.



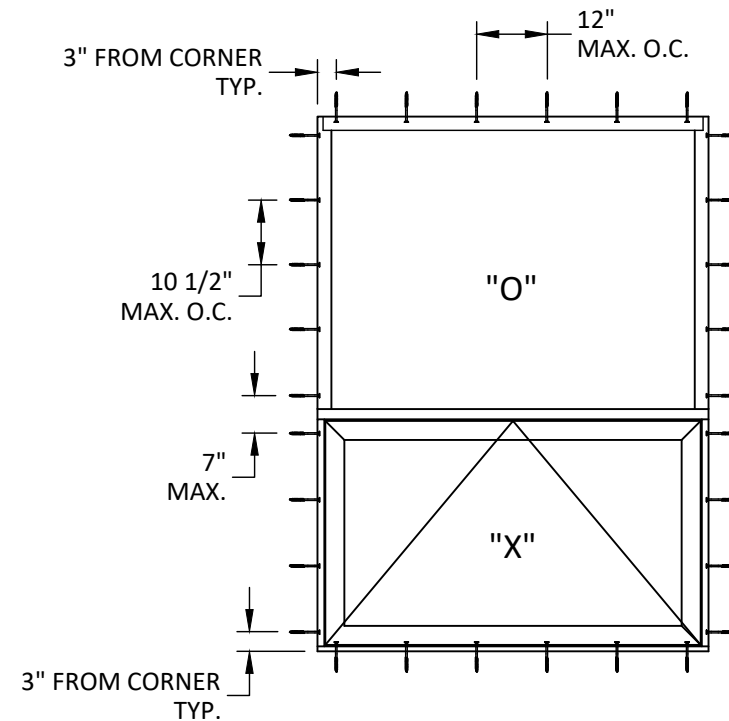
**ANCHOR LAYOUT
STRAP, CLIP, TRIM/CLIP OR THRU FRAME INSTALLATIONS**

CONCENTRATED ANCHORS - TYP.
SEE CONCENTRATED ANCHOR TABLE
FOR INSTALLATION REQUIREMENTS
DEPENDENT ON DESIGN LOADS.

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, TRIM/CLIP 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.



**ANCHOR LAYOUT
ALL INSTALLATIONS**

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 SM. BRONZECRAFT KEEPERS (E1-1519) SECURED WITH (2) #10 X 1/2" FH SMS	60" X 36"	+65/-65 PSF
	2	BRONZECRAFT CAM HANDLES (E1-1541/1542) AT LOCK STILE OF VENT, 8" FROM EA. END SECURED WITH (2) #10 X 1/2" FH SM. BRONZECRAFT KEEPERS (E1-1519) SECURED WITH (2) #10 X 1/2" FH SMS	42" X 45"	+80/-80 PSF
HINGE OPTIONS	1	16" 4-BAR HINGES (5K-15284), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS. SEE NOTE BELOW FOR SNUBBER REQUIREMENTS.	60" X 36"	+65/-65 PSF
	2	16" 4-BAR HINGES (5K-15284) TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS. VENT HEAD SHALL UTILIZE (2) SNUBBERS (E3-1103), 11 1/2" FROM CORNERS.	42" X 45"	+80/-80 PSF
	3	22" 4-BAR HINGES (4K-14209), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS. VENT HEAD SHALL UTILIZE (2) SNUBBERS (E3-1103), 11 1/2" FROM CORNERS.	42" X 45"	+80/-80 PSF

NOTE:
1. HINGE OPTION #1 REQUIRES THE USE OF TWO (2) SNUBBERS (E3-1103), 11 1/2" FROM CORNERS, WHEN UTILIZED WITH GLAZING OPTIONS J OR K.



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

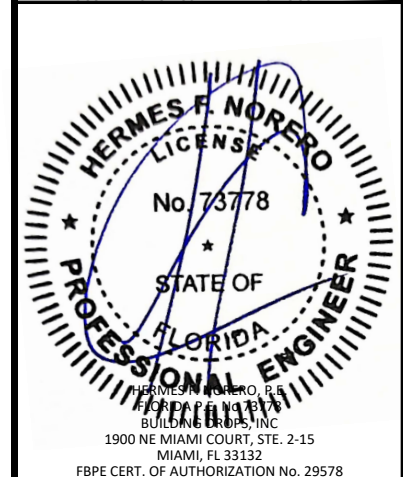
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PROJECT OUT WINDOW
(HVHZ) (IMPACT)
ANCHOR LAYOUTS &
HARDWARE SCHEDULE

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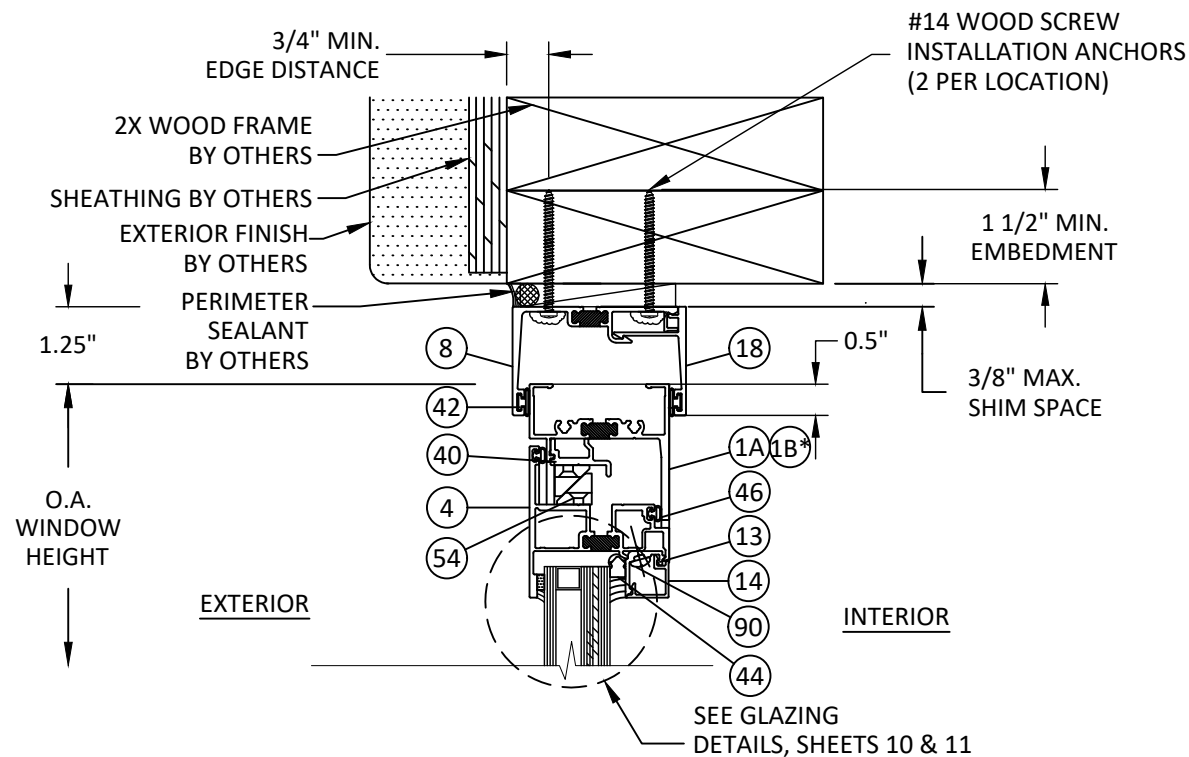


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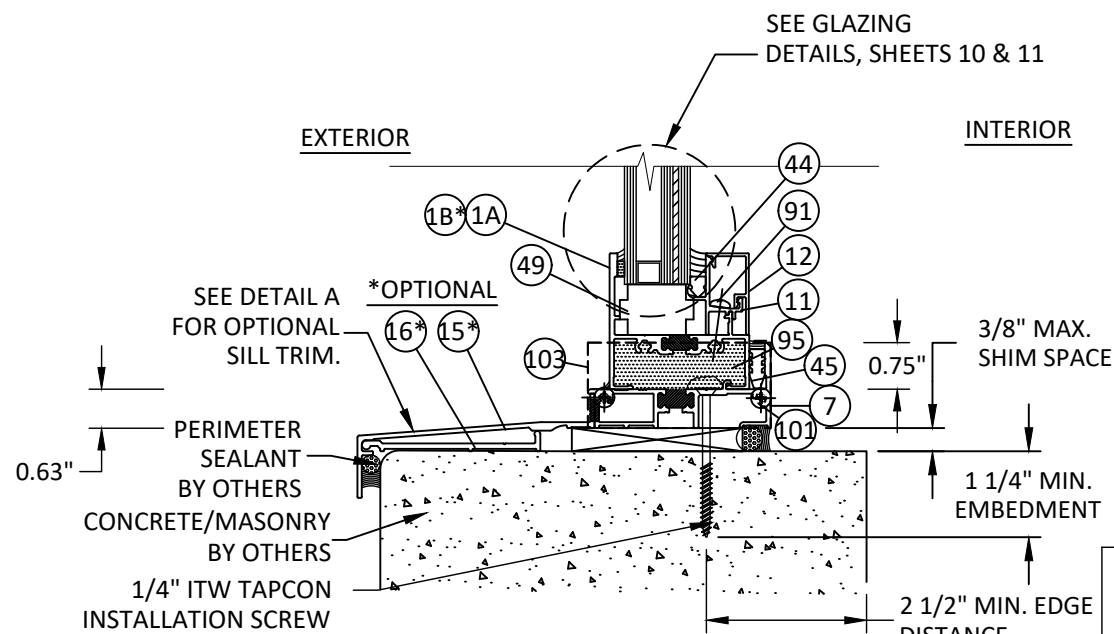
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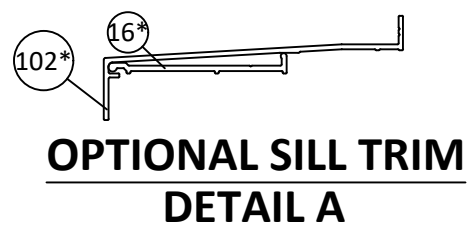


B
4 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
INT. SET RECEPTOR - TYP.

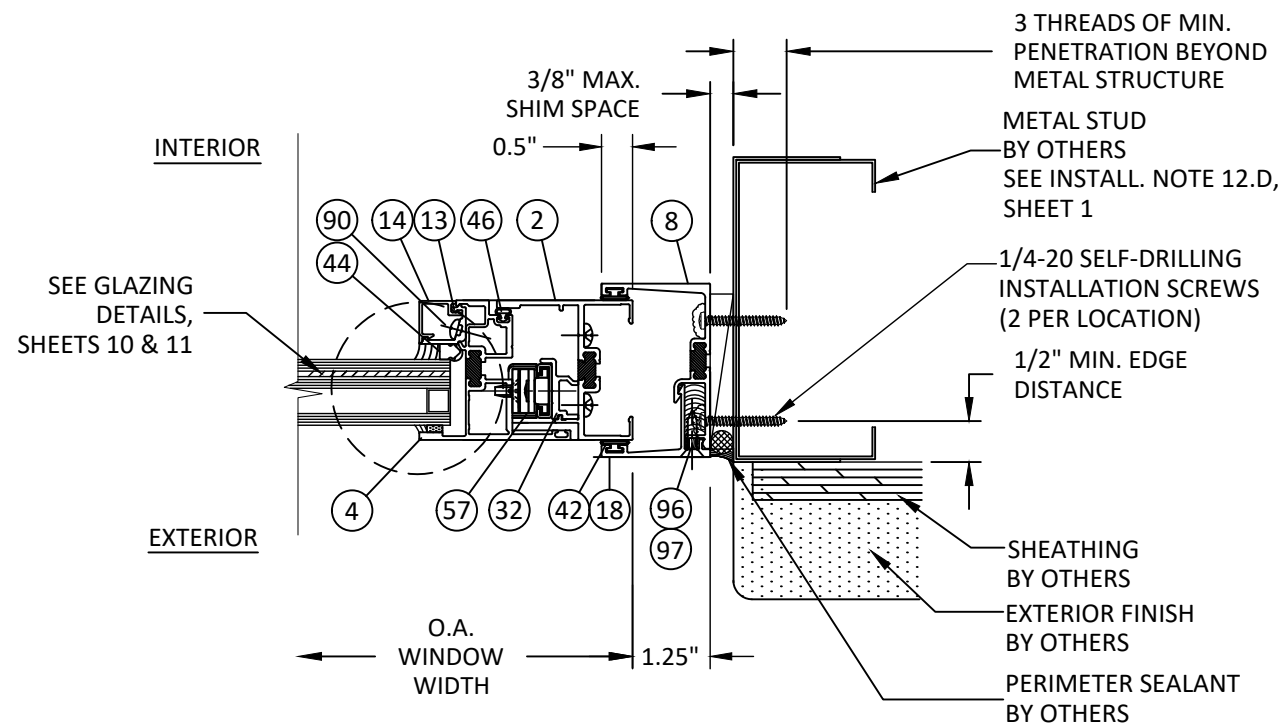
- ASSEMBLY NOTES:
- ITEM #1B MAY BE USED IN LIEU OF ITEM #1A UP TO DESIGN PRESSURES OF +/- 65 PSF.
 - EXCEPTION - PROJECT OUT OVER FIXED COMBINATIONS MAY USE ITEM #1B UP TO DESIGN PRESSURES OF +/- 80 PSF



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

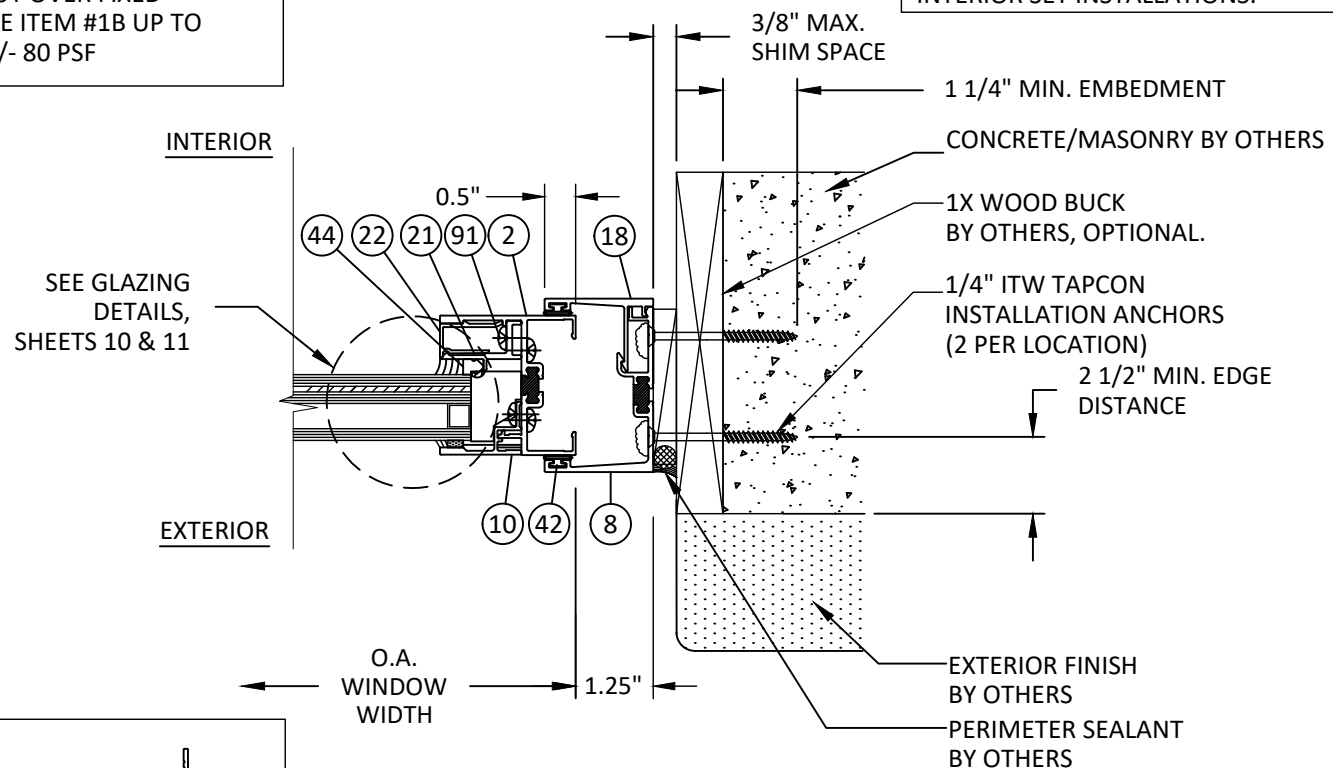


OPTIONAL SILL TRIM
DETAIL A



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

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



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



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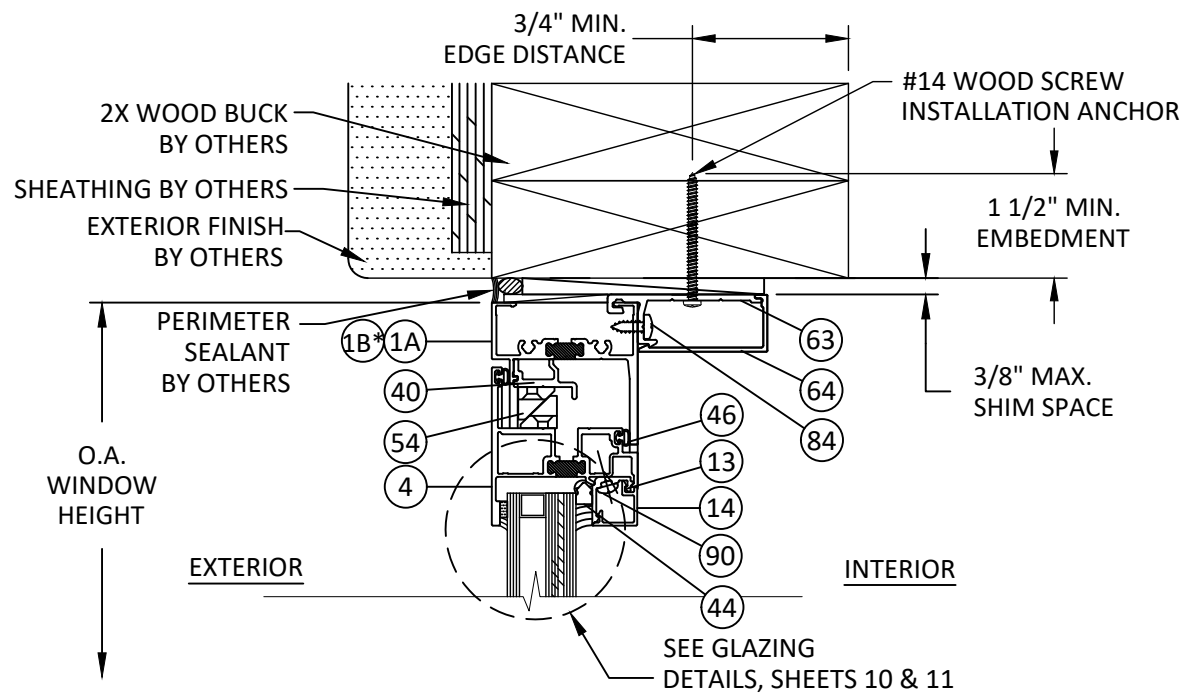
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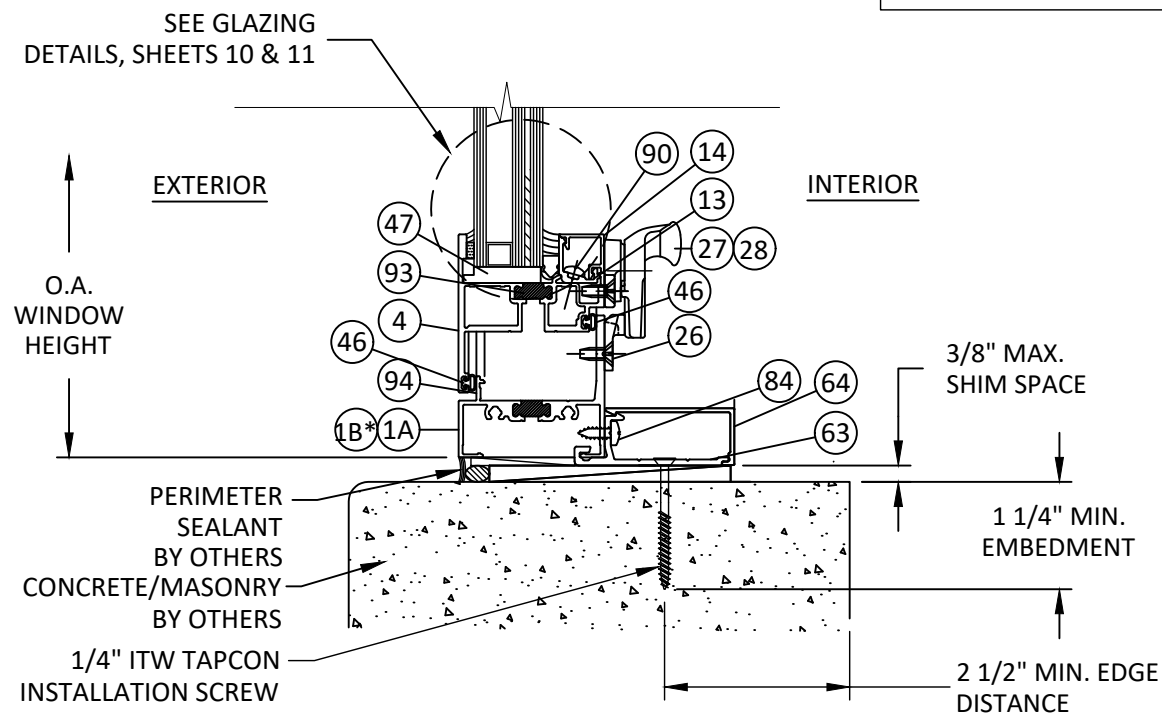
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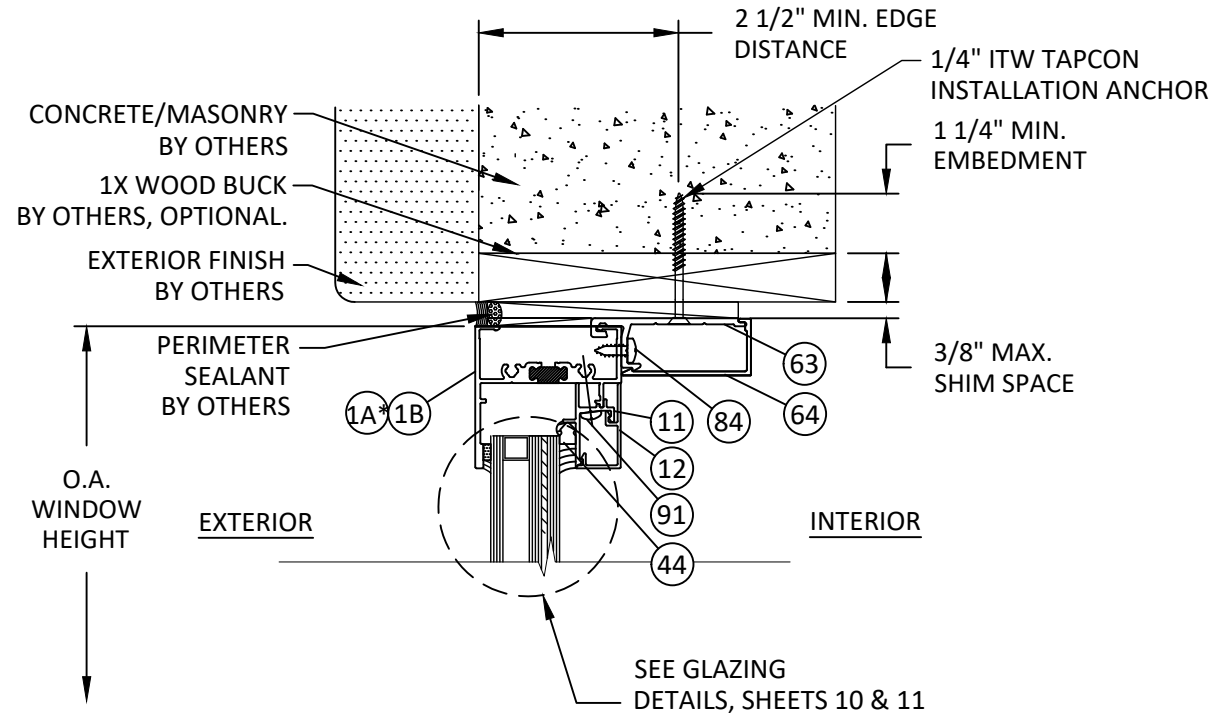


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5 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
CLIP ANCHOR - TYP.

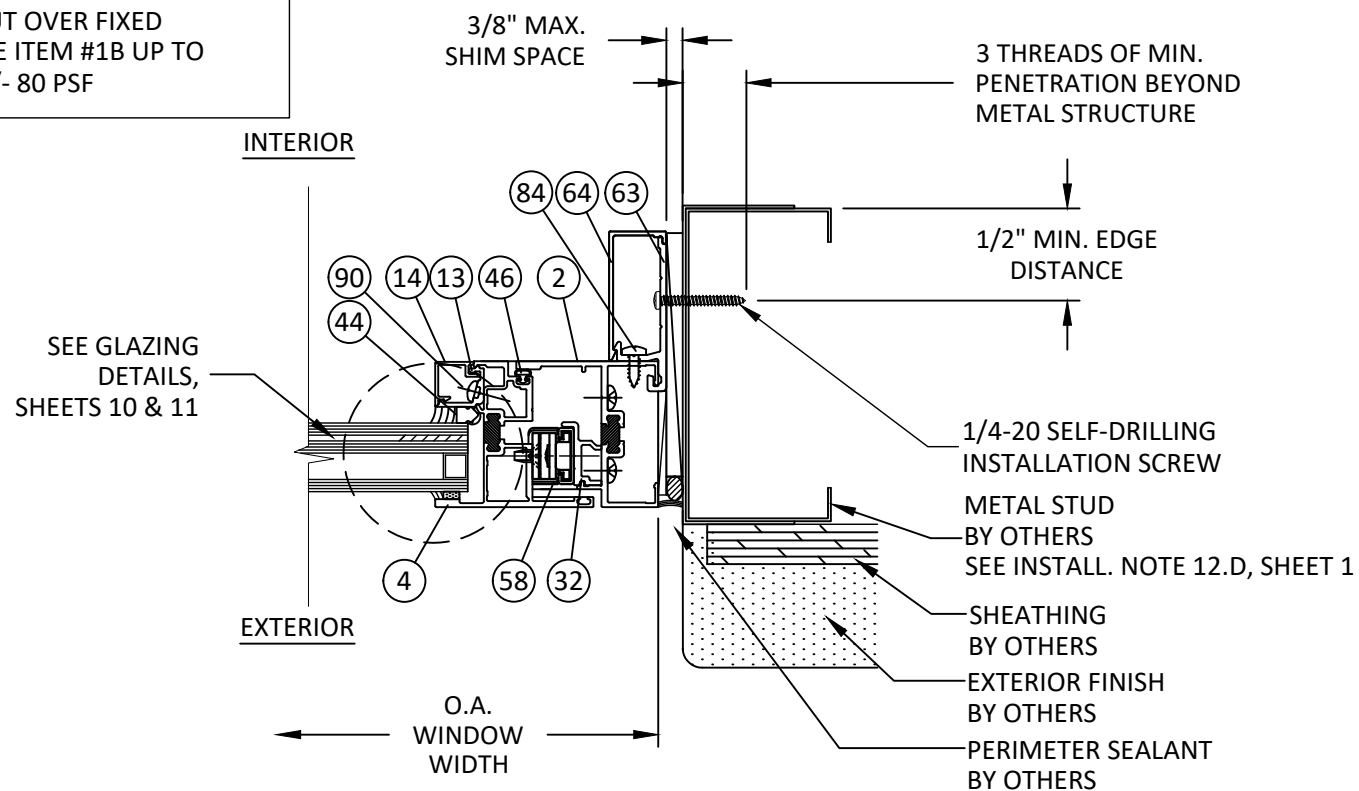
ASSEMBLY NOTES:
1. ITEM #1B MAY BE USED IN LIEU OF ITEM #1A UP TO DESIGN PRESSURES OF +/- 65 PSF.
A. EXCEPTION - PROJECT OUT OVER FIXED COMBINATIONS MAY USE ITEM #1B UP TO DESIGN PRESSURES OF +/- 80 PSF



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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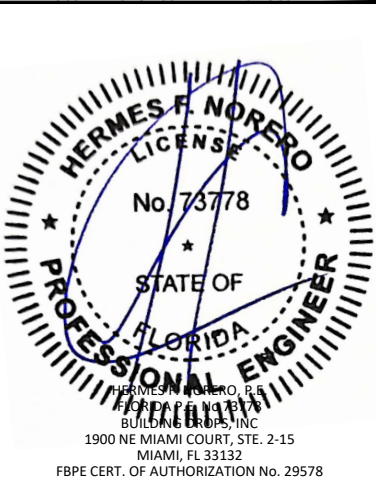
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REMARKS	BY	DATE
7TH FBC CODE CHANGE	MS	04.16.20
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
9TH FBC CODE CHANGE	SH	07.31.26

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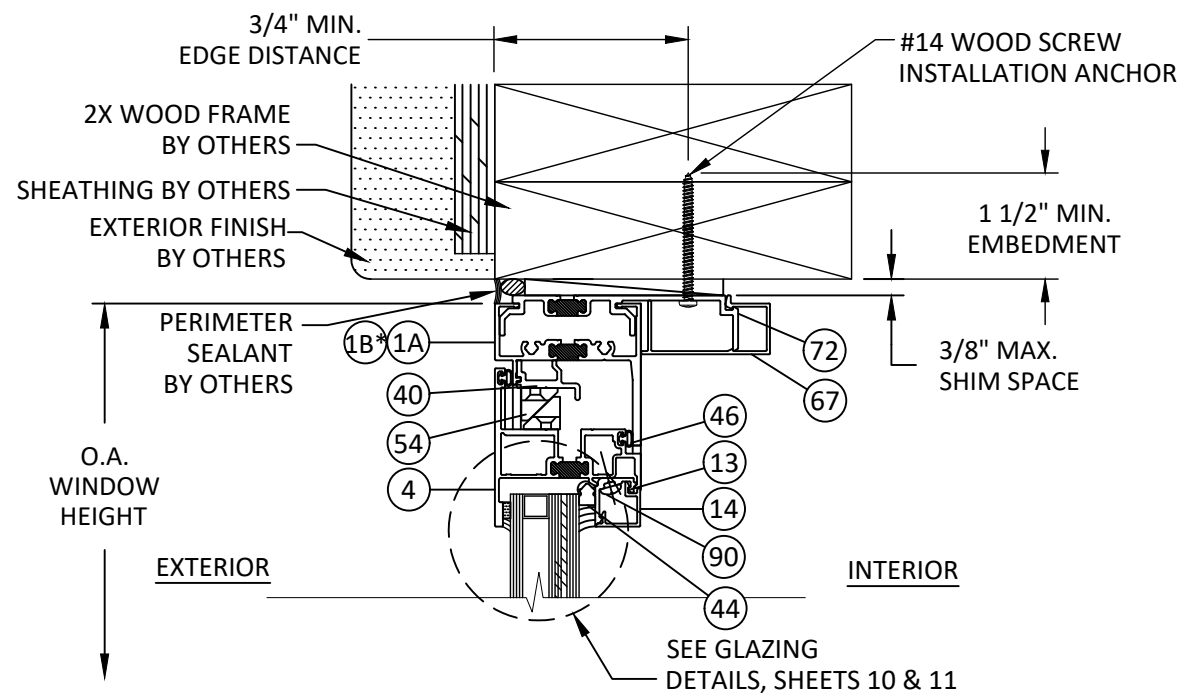


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DATE:	10.16.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK014
SHEET:	5

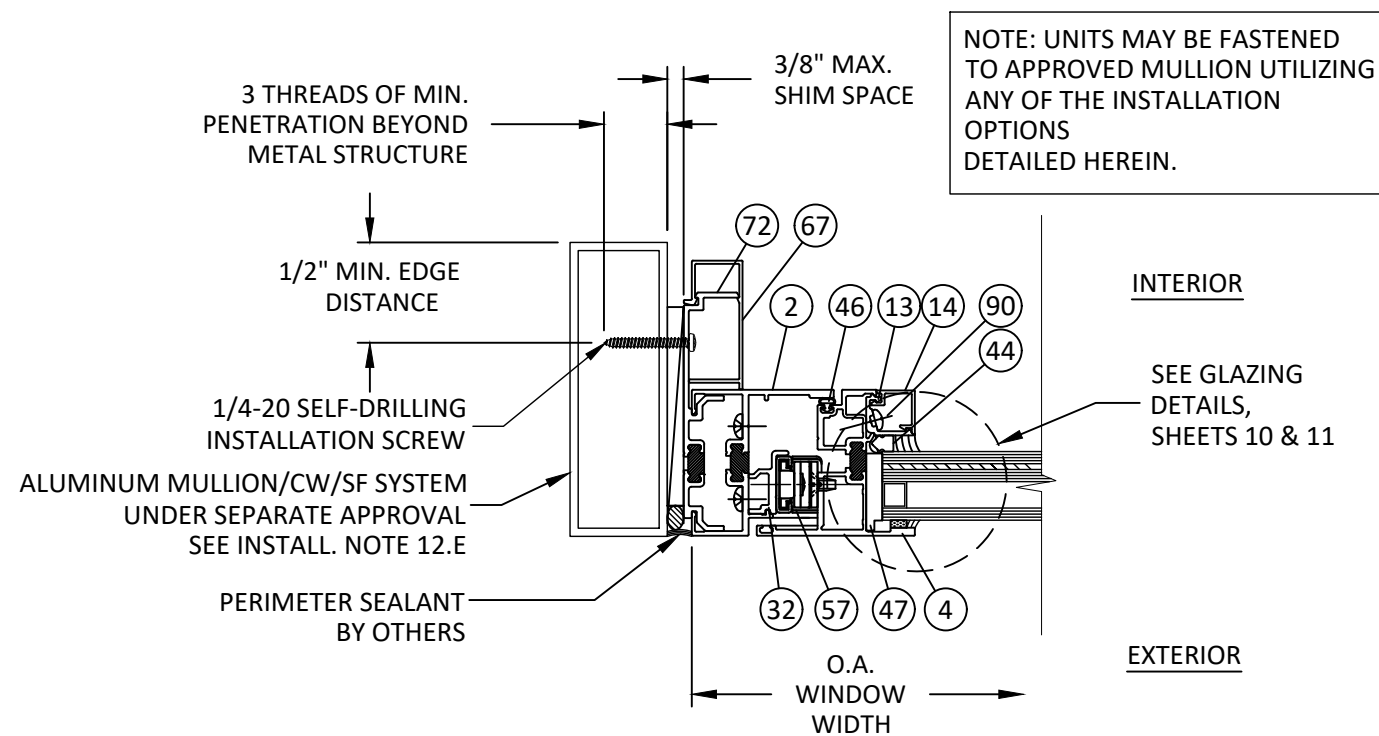
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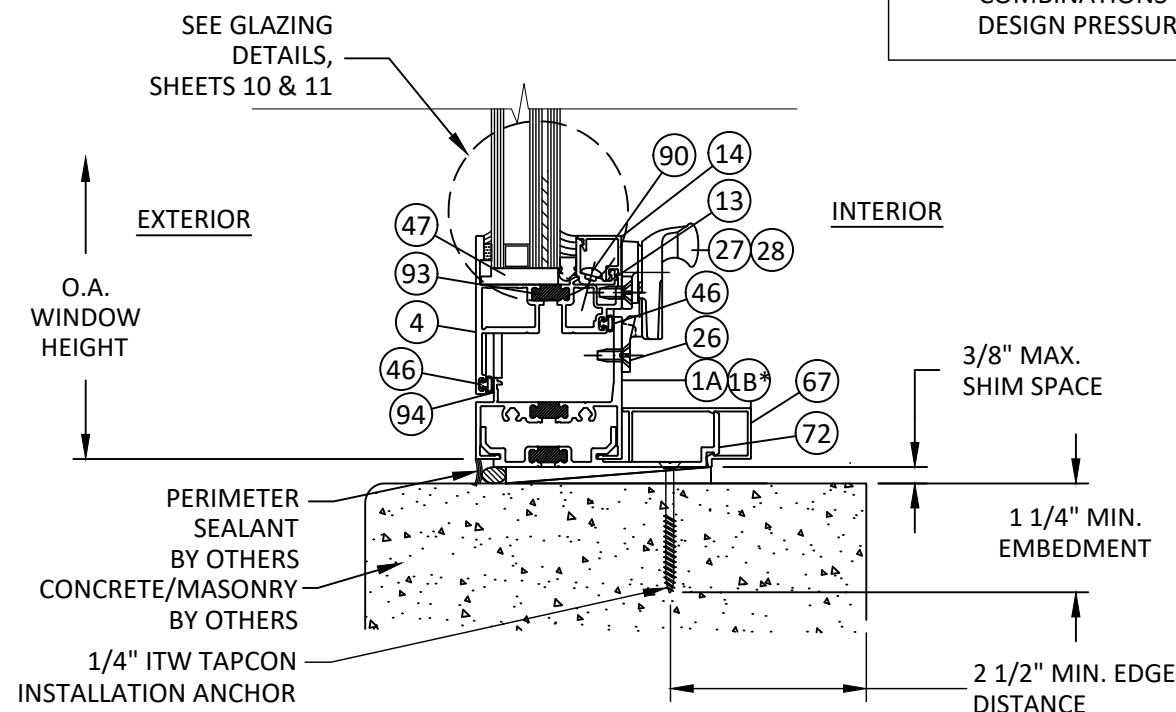


K
6 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP.

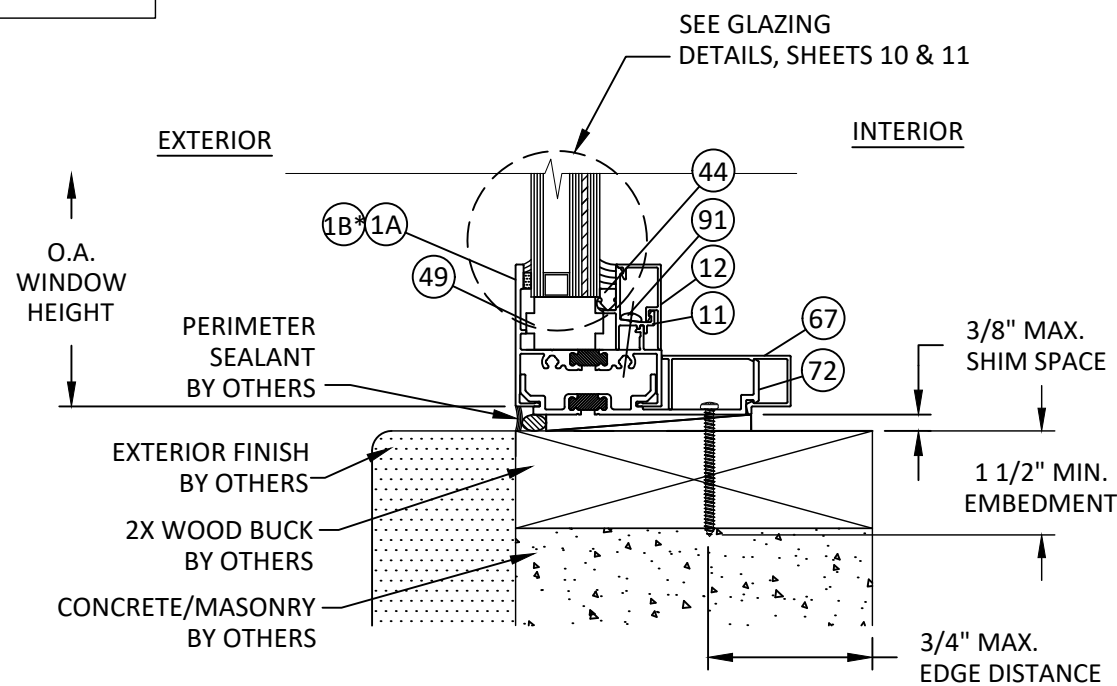


L
6 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
STRAP ANCHOR - TYP.

ASSEMBLY NOTES:
1. ITEM #1B MAY BE USED IN LIEU OF ITEM #1A UP TO DESIGN PRESSURES OF +/- 65 PSF.
A. EXCEPTION - PROJECT OUT OVER FIXED COMBINATIONS MAY USE ITEM #1B UP TO DESIGN PRESSURES OF +/- 80 PSF



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

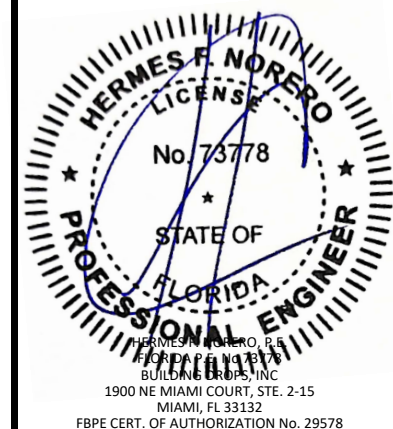
TITLE:
YOW 225 TUB THERMAL ALUMINUM
PROJECT OUT WINDOW
(HVHZ) (IMPACT)
STRAP INSTALLATION
DETAILS

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



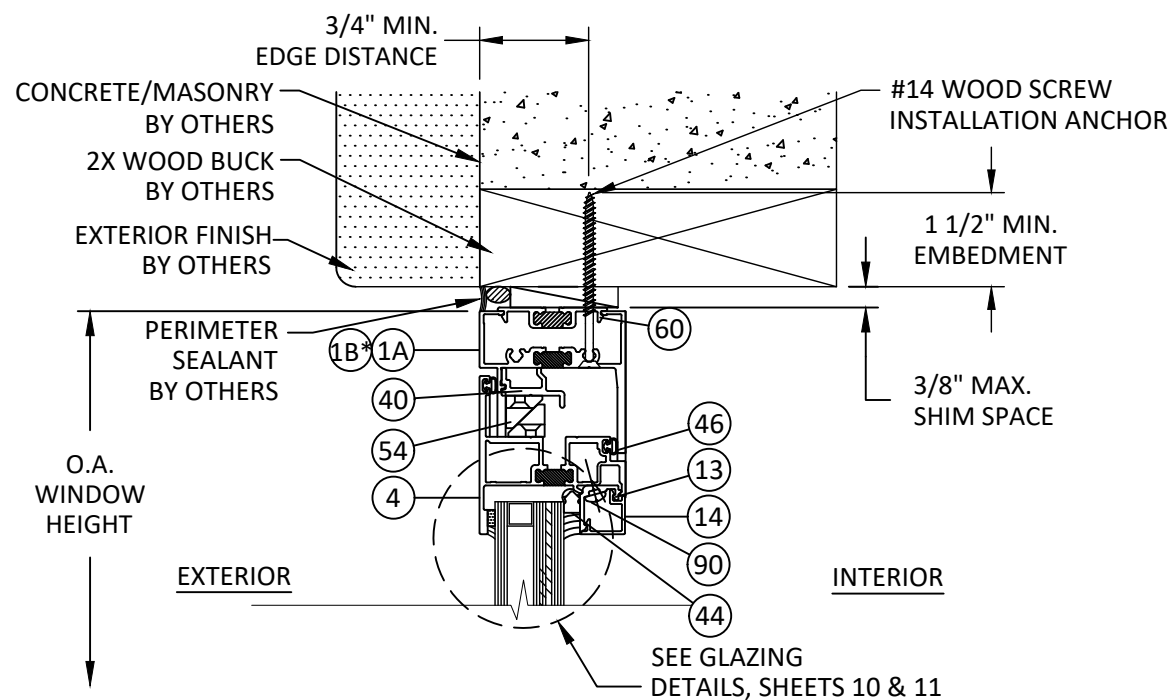
REMARKS	BY	DATE
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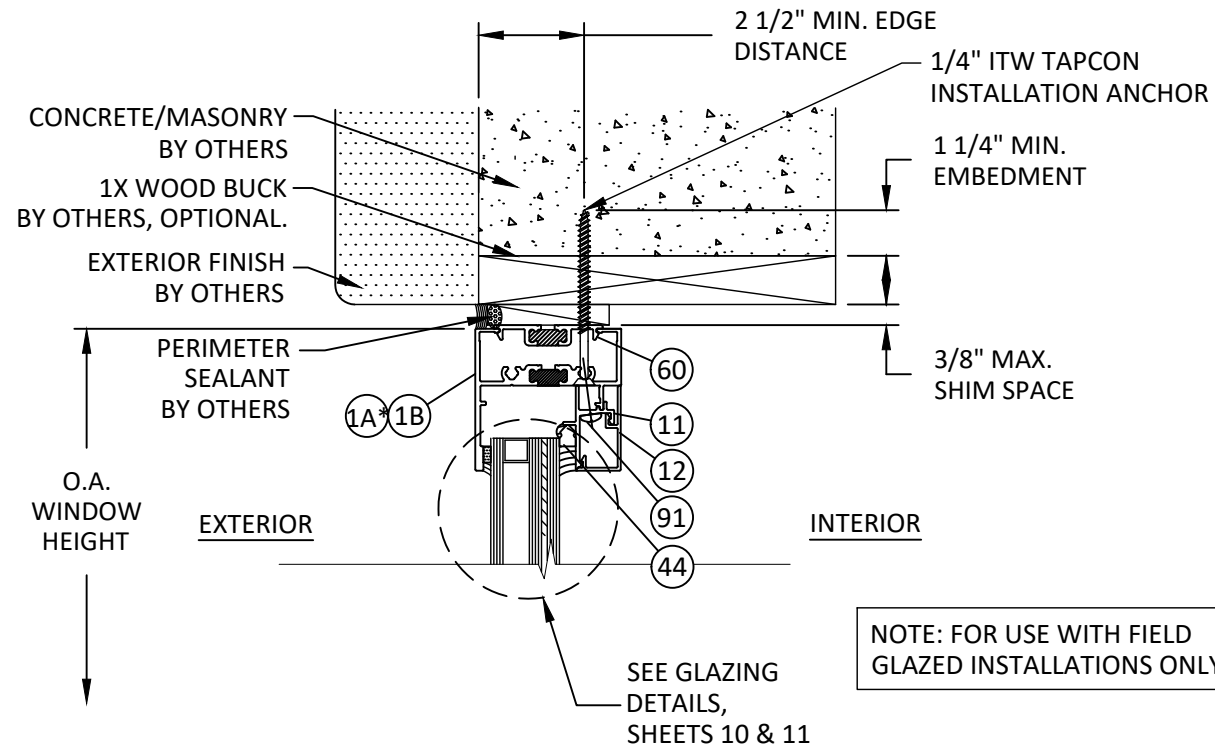
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DWG. #:	YKK014
SHEET:	6
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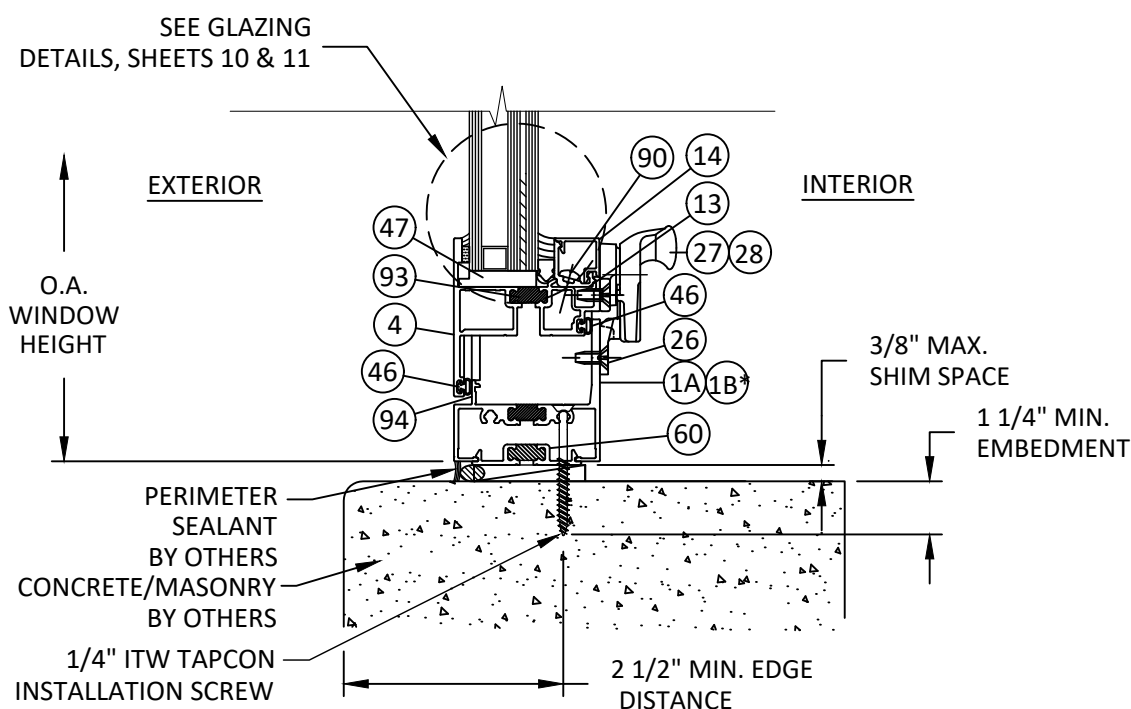
O 7 VERTICAL SECTION
VENT HEAD - 2X WOOD BUCK
THROUGH FRAME - TYP.

- ASSEMBLY NOTES:
- ITEM #1B MAY BE USED IN LIEU OF ITEM #1A UP TO DESIGN PRESSURES OF +/- 65 PSF.
A. EXCEPTION - PROJECT OUT OVER FIXED COMBINATIONS MAY USE ITEM #1B UP TO DESIGN PRESSURES OF +/- 80 PSF

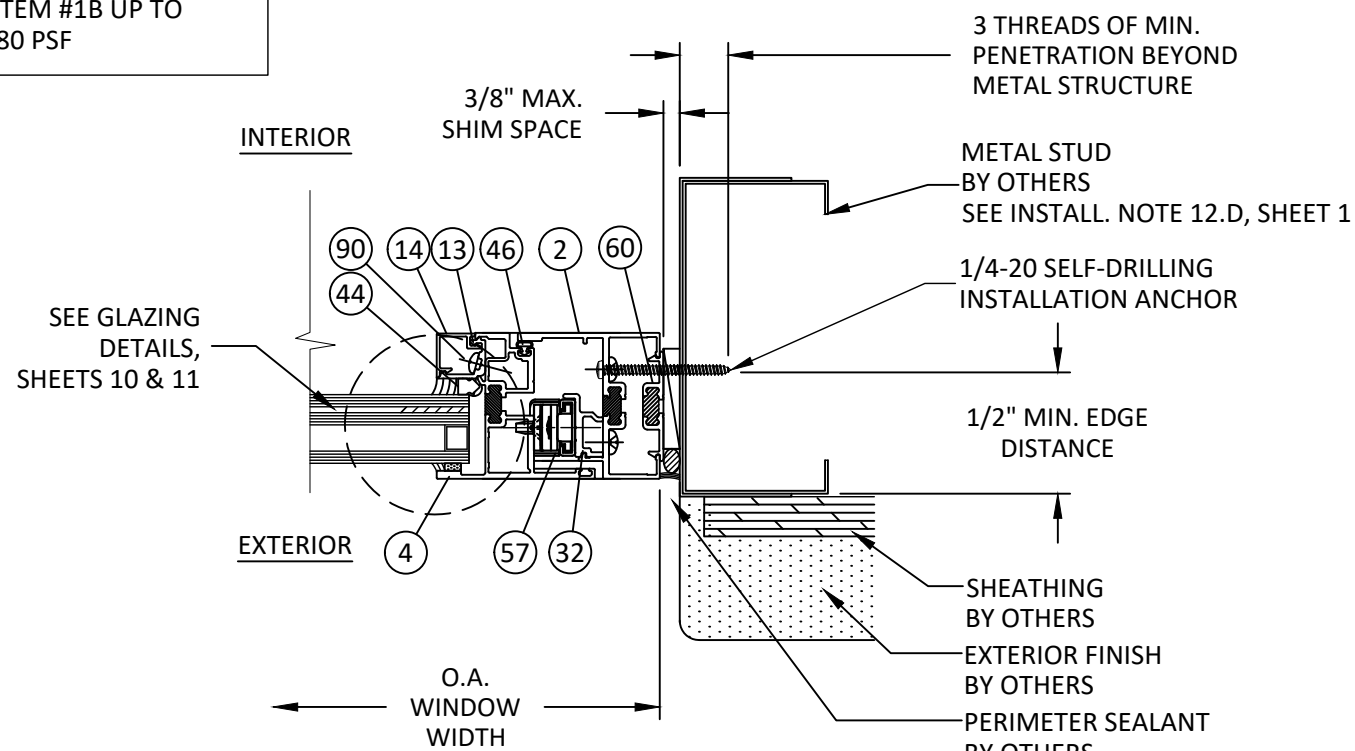


P 7 VERTICAL SECTION
FIXED HEAD - 1X/CONCRETE/MASONRY
THROUGH FRAME - TYP.

NOTE: FOR USE WITH FIELD
GLAZED INSTALLATIONS ONLY.



N 7 VERTICAL SECTION
VENT SILL - CONCRETE/MASONRY
THROUGH FRAME - TYP.



Q 7 HORIZONTAL SECTION
VENT JAMB - METAL STUD FRAME
THROUGH FRAME - TYP.



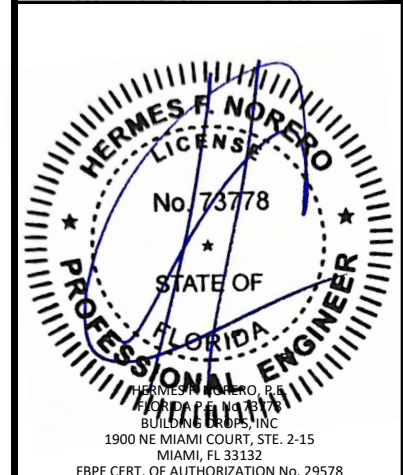
YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 TUB THERMAL ALUMINUM
PROJECT OUT WINDOW
(HVHZ) (IMPACT)
THROUGH FRAME
INSTALLATION DETAILS

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BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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WEB: www.buildingdrops.com

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FL16313

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CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK014

SHEET:

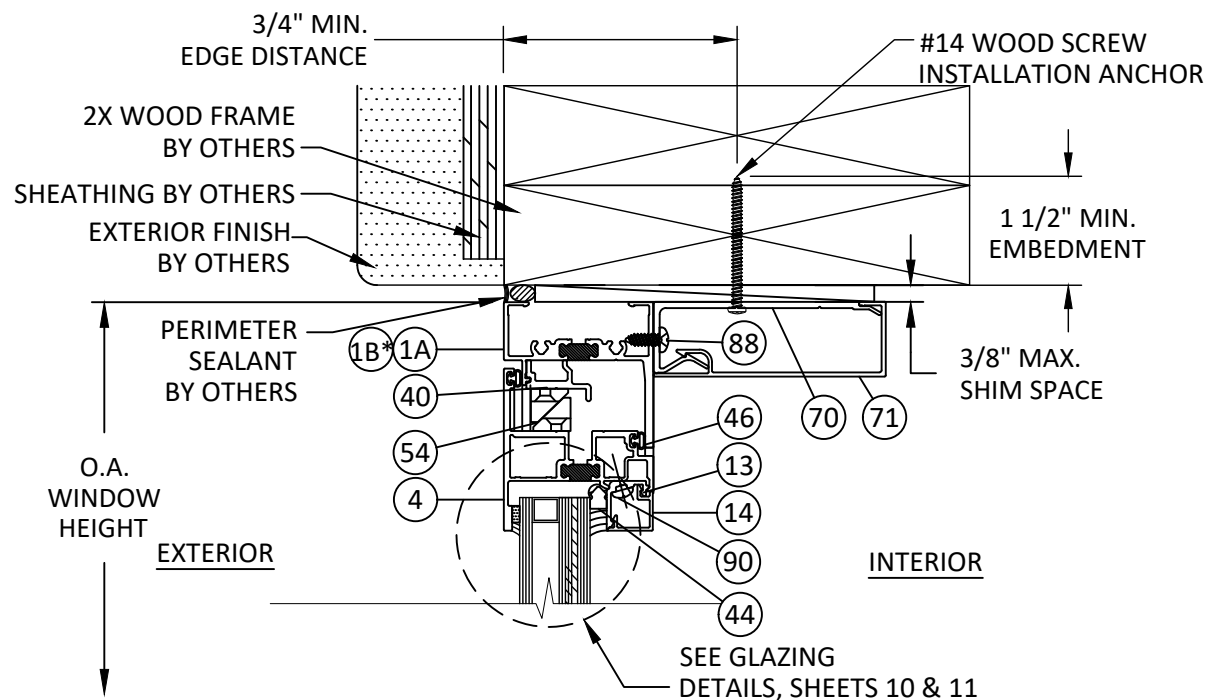
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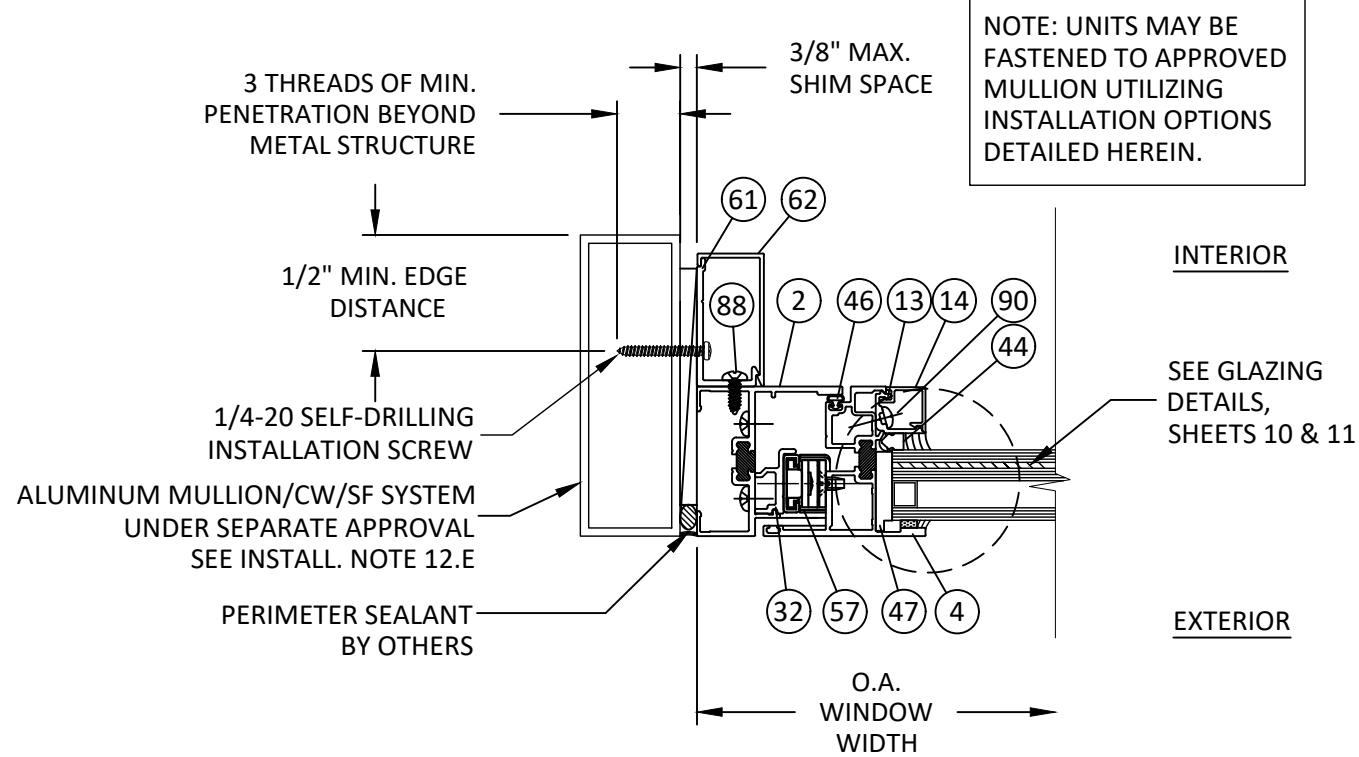
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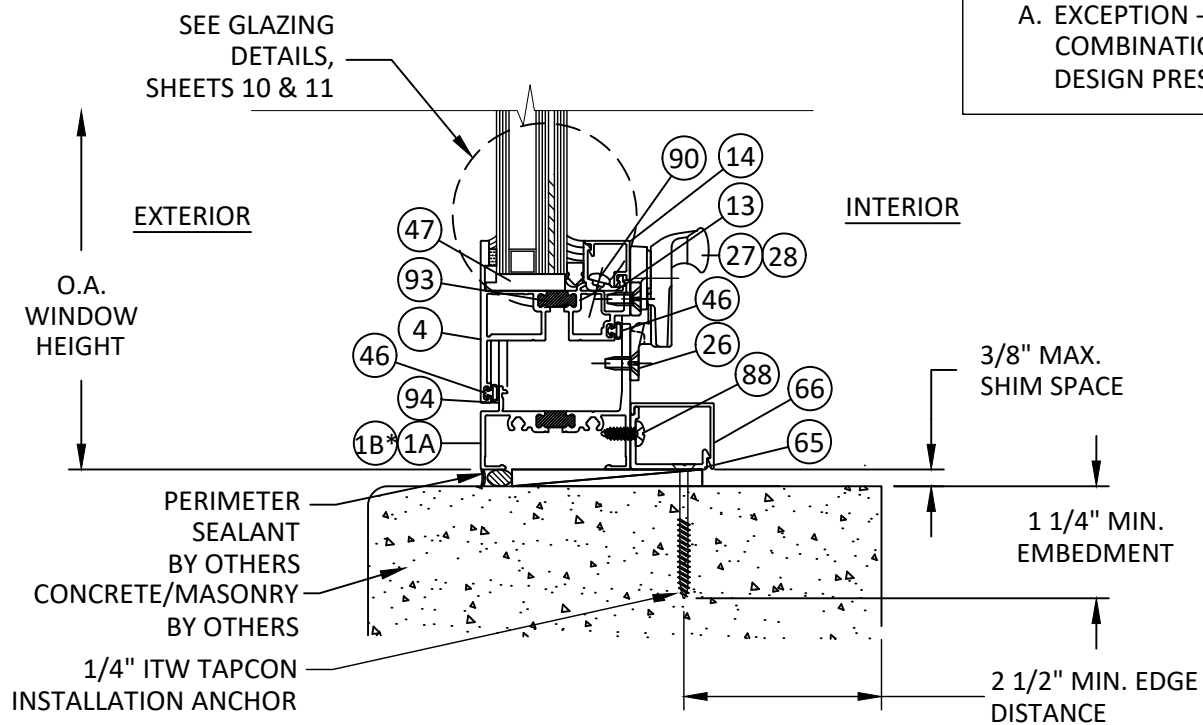


S
8 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TRIM CLIP ANCHOR - TYP.

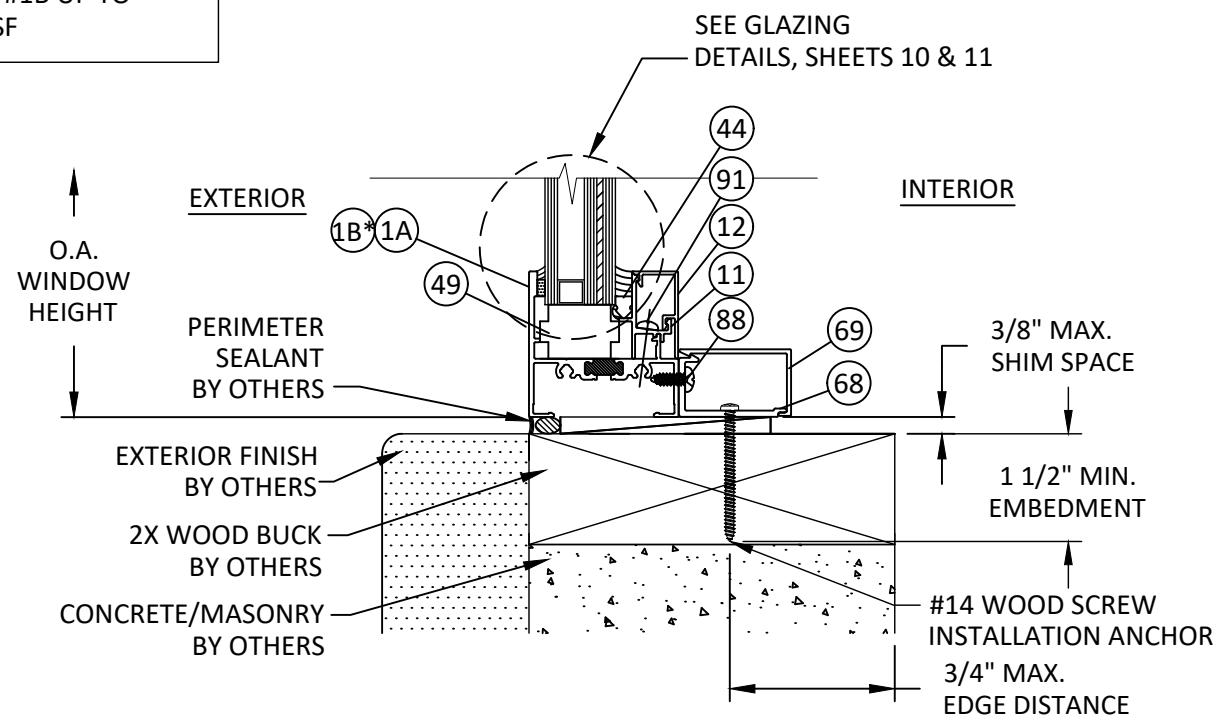


T
8 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
TRIM CLIP ANCHOR - TYP.

- ASSEMBLY NOTES:
- ITEM #1B MAY BE USED IN LIEU OF ITEM #1A UP TO DESIGN PRESSURES OF +/- 65 PSF.
 - EXCEPTION - PROJECT OUT OVER FIXED COMBINATIONS MAY USE ITEM #1B UP TO DESIGN PRESSURES OF +/- 80 PSF



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.



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

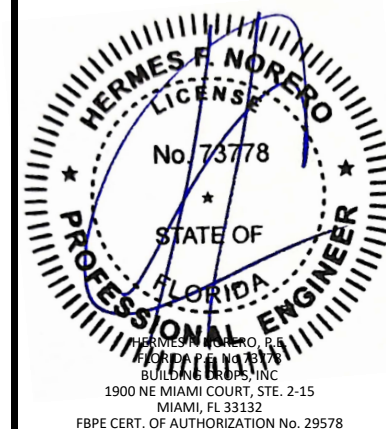
TITLE:
YOW 225 TUB THERMAL ALUMINUM
PROJECT OUT WINDOW
(HVHZ) (IMPACT)
TRIM & CLIP ANCHOR
INSTALLATION

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
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FL16313

DATE: **10.16.17**

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CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK014**

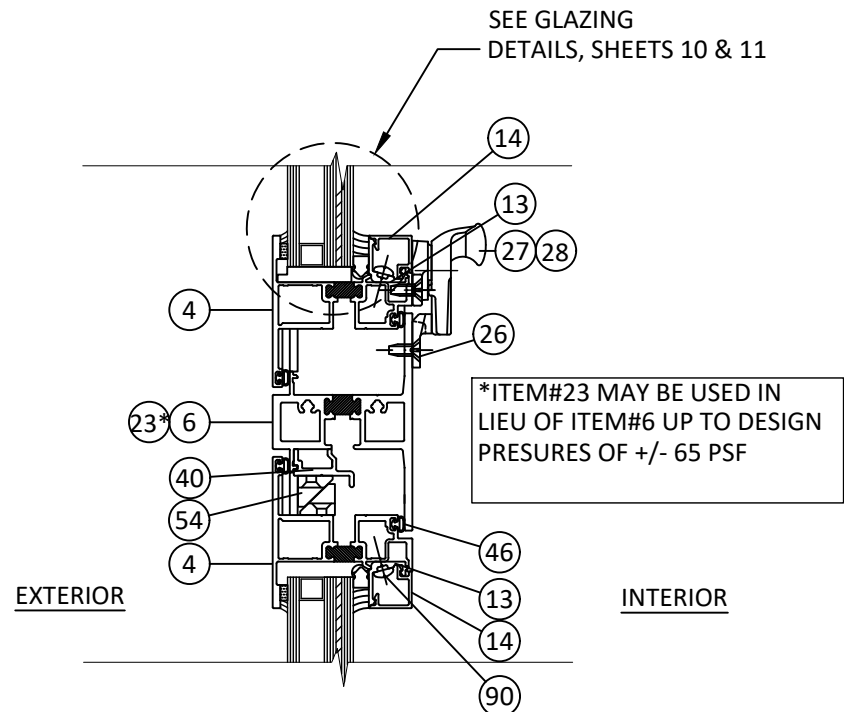
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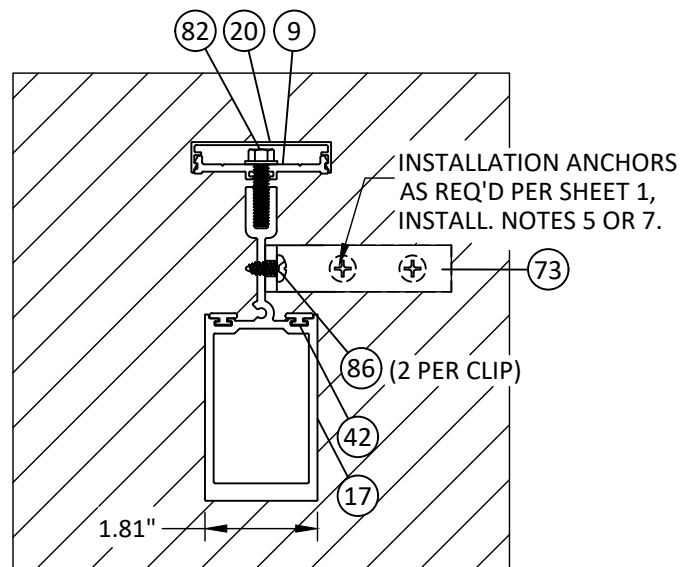
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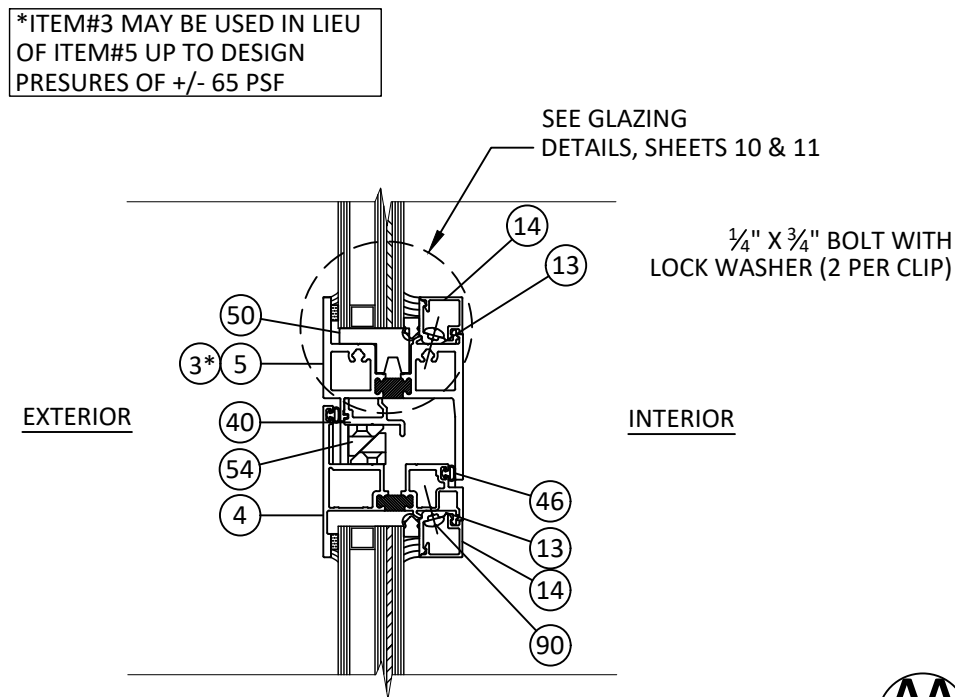
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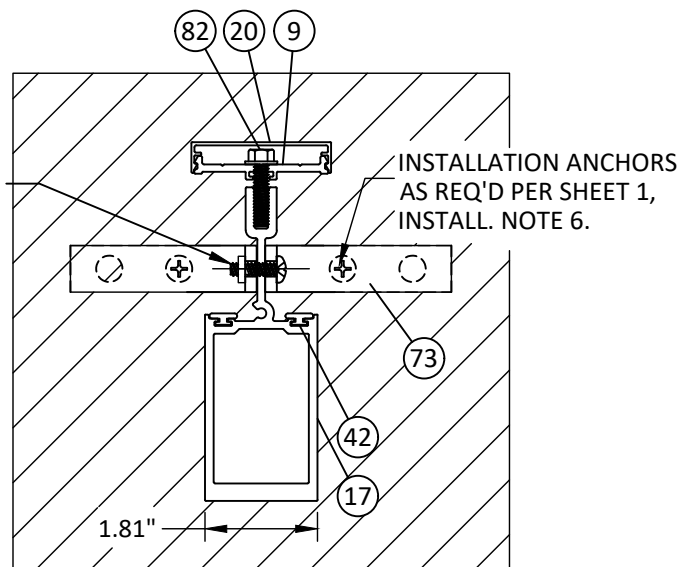
W9 HORIZONTAL SECTION
PROJECT OUT - PROJECT OUT



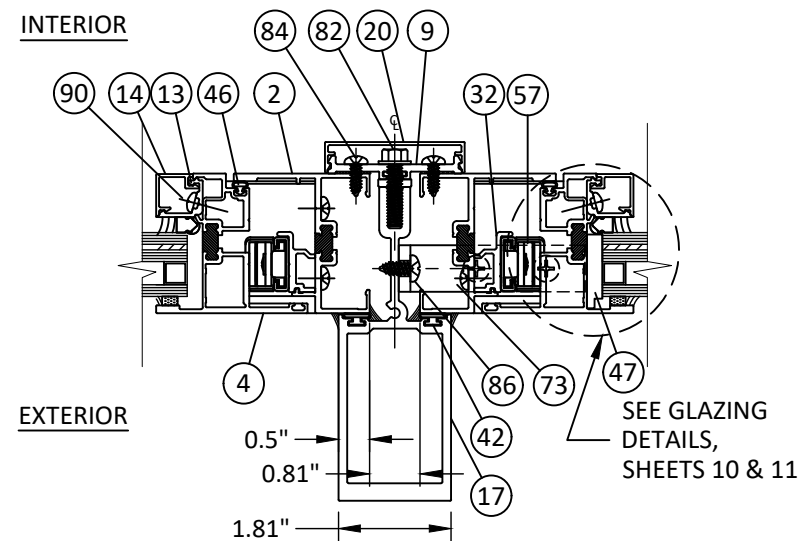
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STACK MULLION - TYP.
INSTALL TO WOOD/METAL FRAME



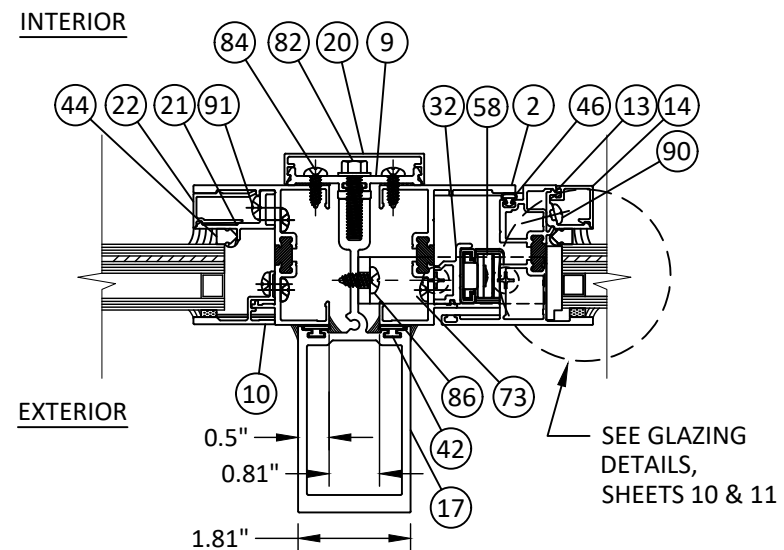
V9 VERTICAL SECTION
INTEGRAL MULLION-TYP.
FIXED OVER PROJECT OUT



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



Y9 HORIZONTAL SECTION
STACK MULLION - TYP.
PROJECT OUT TO PROJECT OUT



X9 HORIZONTAL SECTION
STACK MULLION - TYP.
FIXED TO FIXED



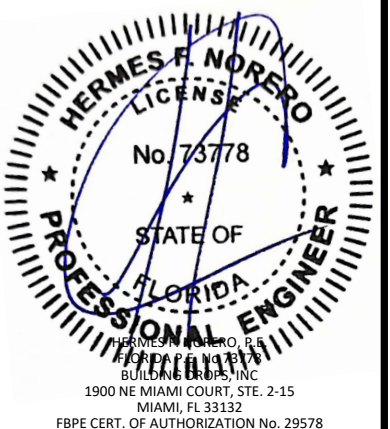
YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 TUB THERMAL ALUMINUM
PROJECT OUT WINDOW
(HVHZ) (IMPACT)
INTEGRAL & STACK
MULL DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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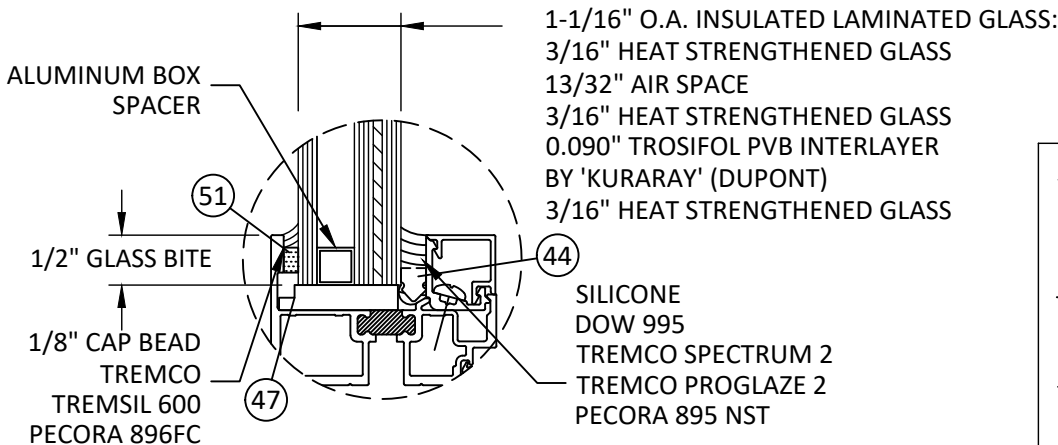


FL #:	FL16313	
DATE:	10.16.17	
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SCALE:	NTS	
DWG. #:	YKK014	
SHEET:	9	REV. E

LARGE MISSILE IMPACT RATED GLAZING OPTIONS

DP +/- 80 PSF @ 42" X 45" MAX. VENT SIZE

DP +/- 65 PSF @ 60" X 36" MAX. VENT SIZE



GLAZING DETAIL J

ALUMINUM BOX SPACER:
AROUND THE PERIMETER
OF THE GLASS

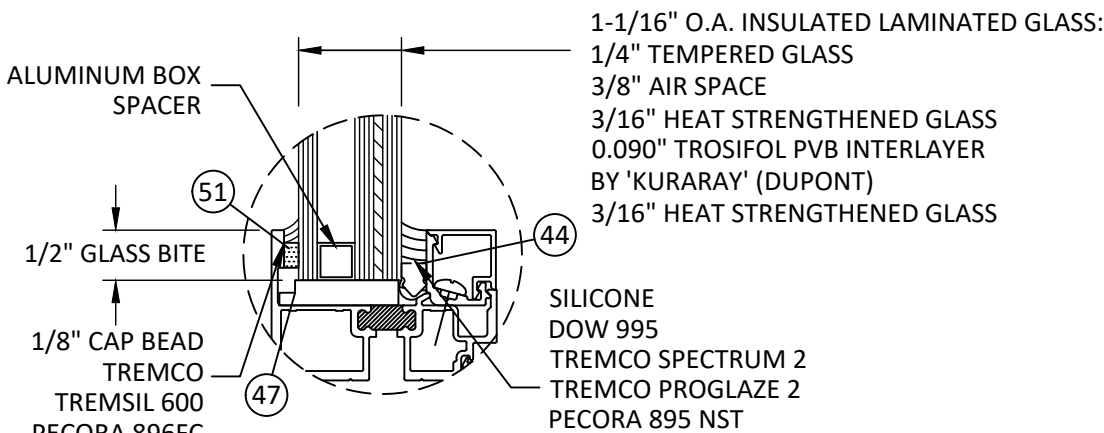
PRIMARY SEALANT:
POLYISOBUTYLENE (PIB)

SECONDARY SEALANT:
STRUCTURAL SILICONE
INTENDED FOR
FABRICATION OF
INSULATED GLASS UNITS.

LARGE & SMALL MISSILE IMPACT RATED GLAZING OPTIONS

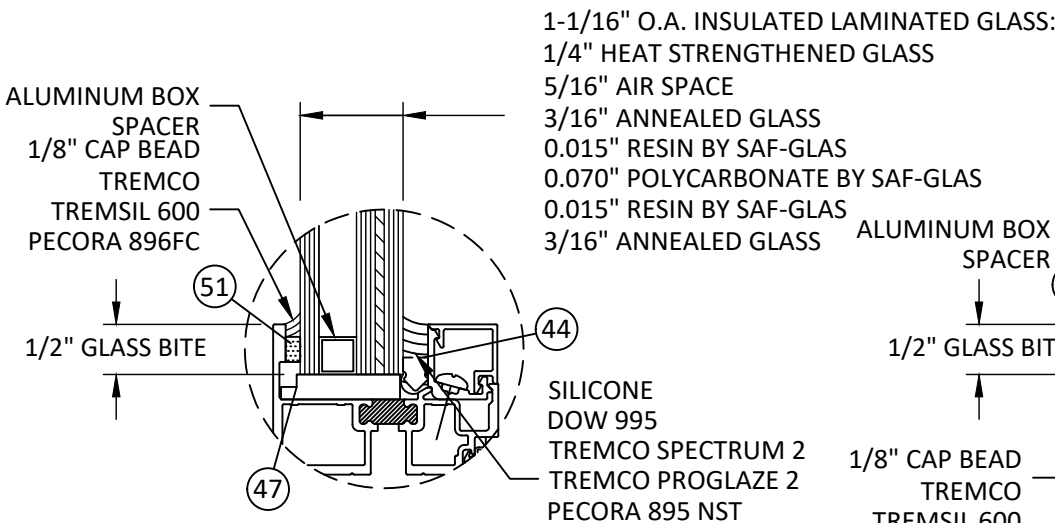
DP +/- 80 PSF @ 42" X 45" MAX. VENT SIZE

DP +/- 65 PSF @ 60" X 36" MAX. VENT SIZE

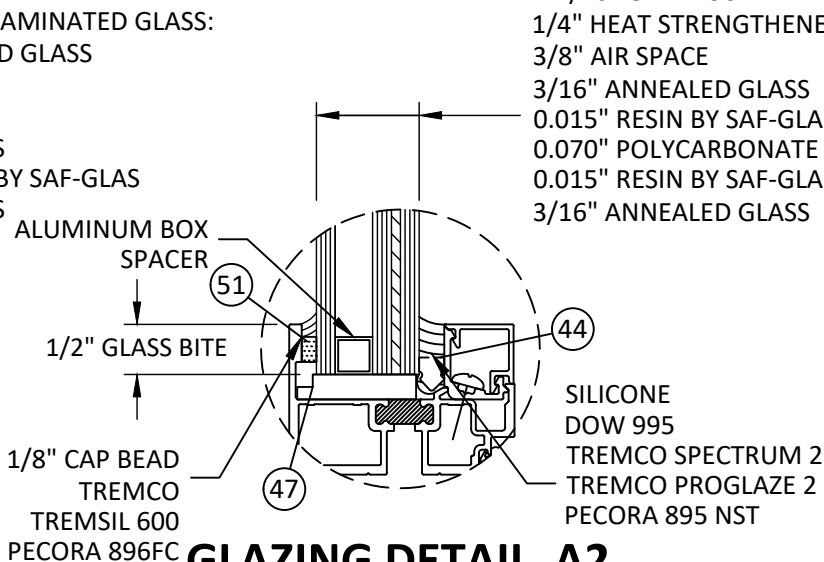


GLAZING DETAIL K

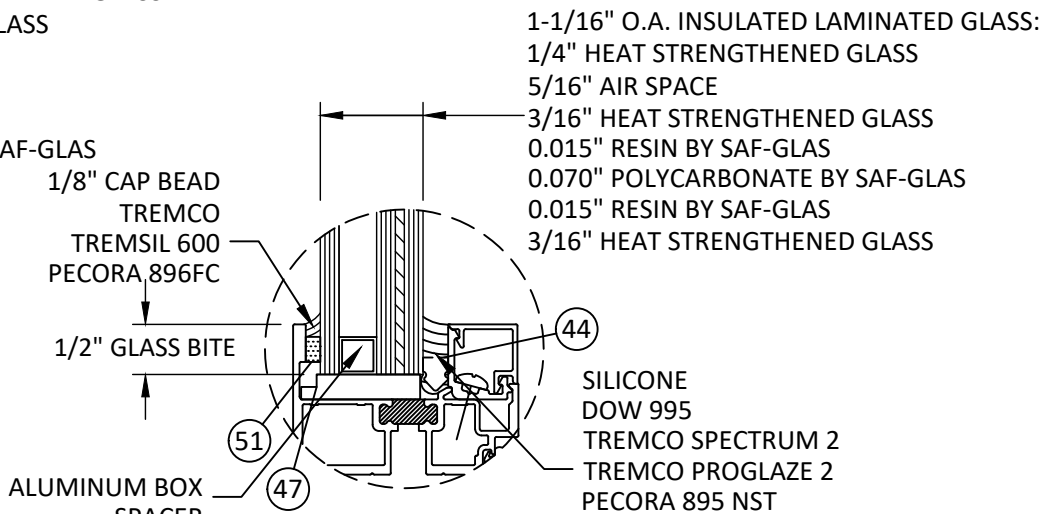
LARGE MISSILE IMPACT RATED GLAZING OPTIONS, DP +/- 65 PSF @ 60" X 36" MAX. VENT SIZE



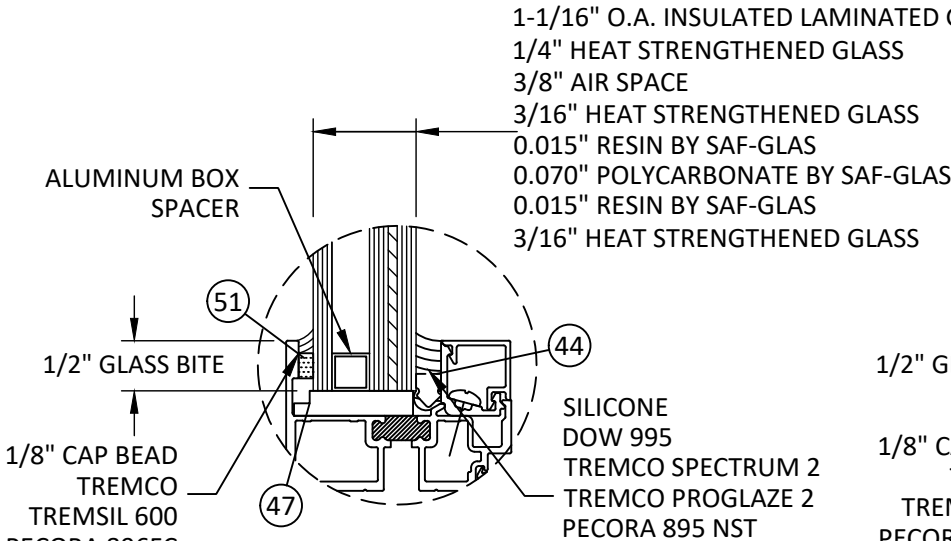
GLAZING DETAIL A1



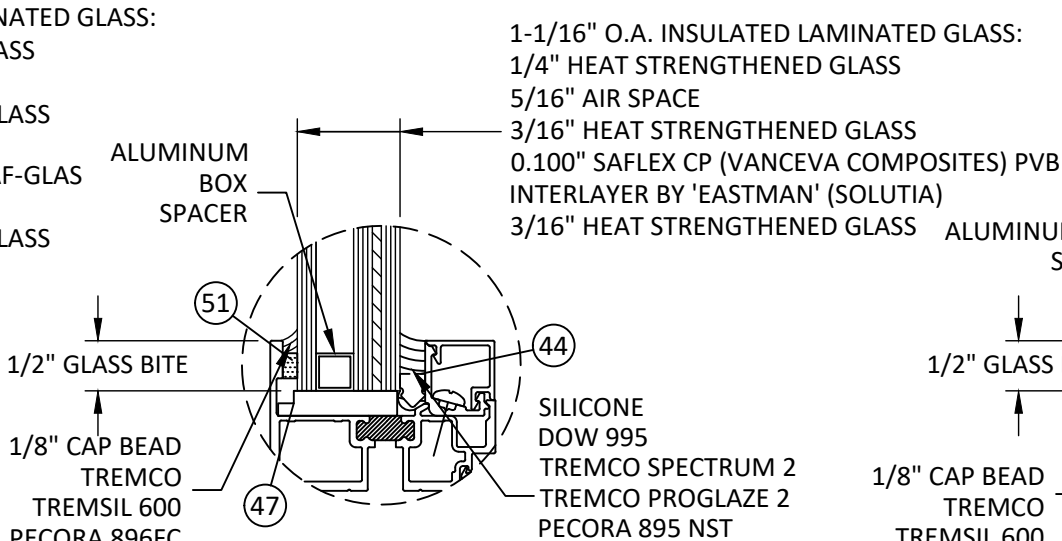
GLAZING DETAIL A2



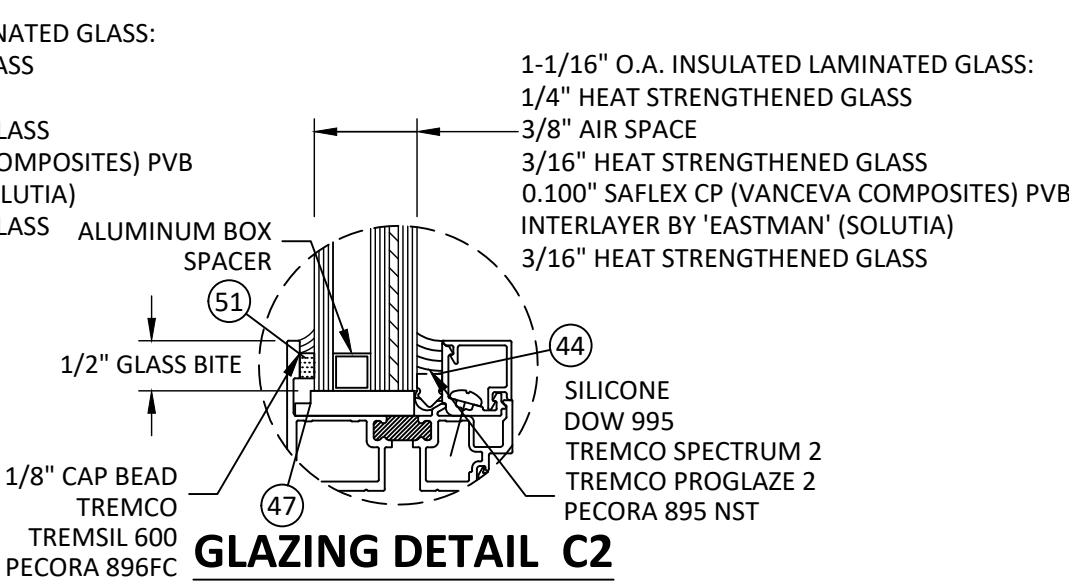
GLAZING DETAIL B1



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
PROJECT OUT WINDOW
(HVHZ) (IMPACT)

GLAZING DETAILS 1

PREPARED BY:

BUILDING DROPS, INC.

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

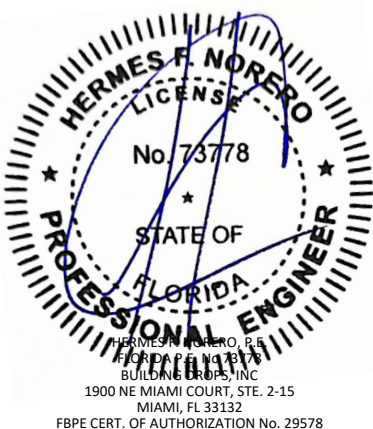
PH: (954)399-8478
FAX: (954)744-4738

WEB: www.buildingdrops.com



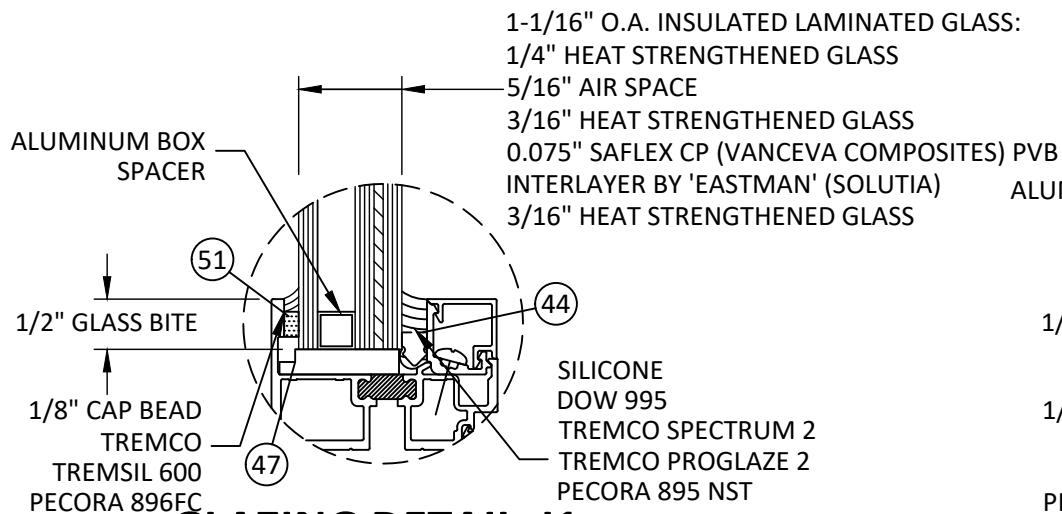
REMARKS	BY	DATE
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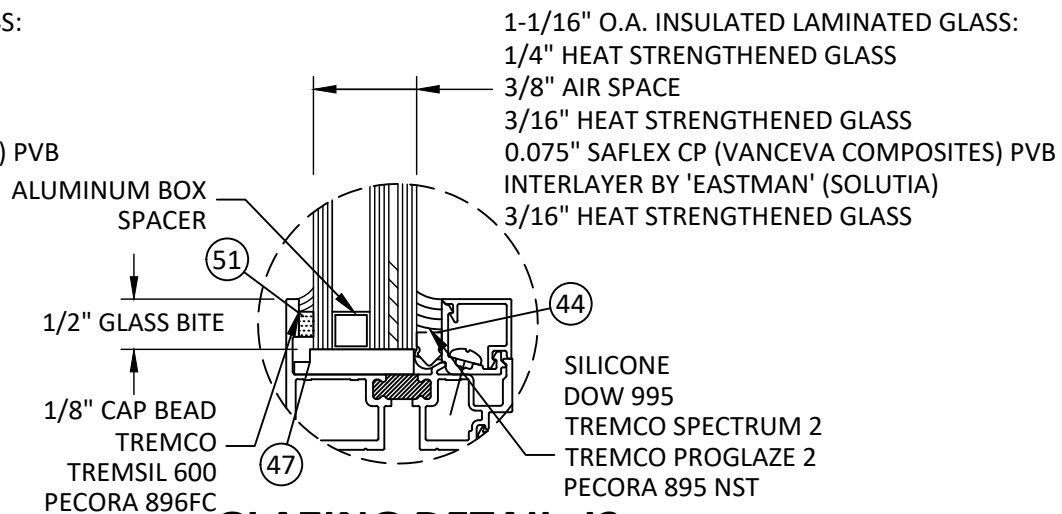


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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK014
SHEET:	10
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LARGE MISSILE IMPACT RATED GLAZING OPTIONS, DP +/- 65 PSF @ 60" X 36" MAX. VENT SIZE (CONT...)

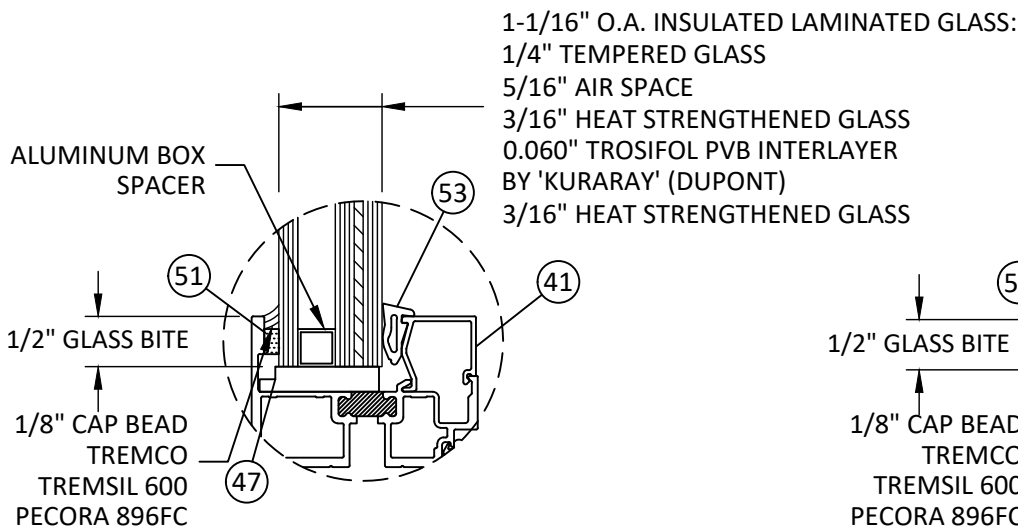


GLAZING DETAIL I1

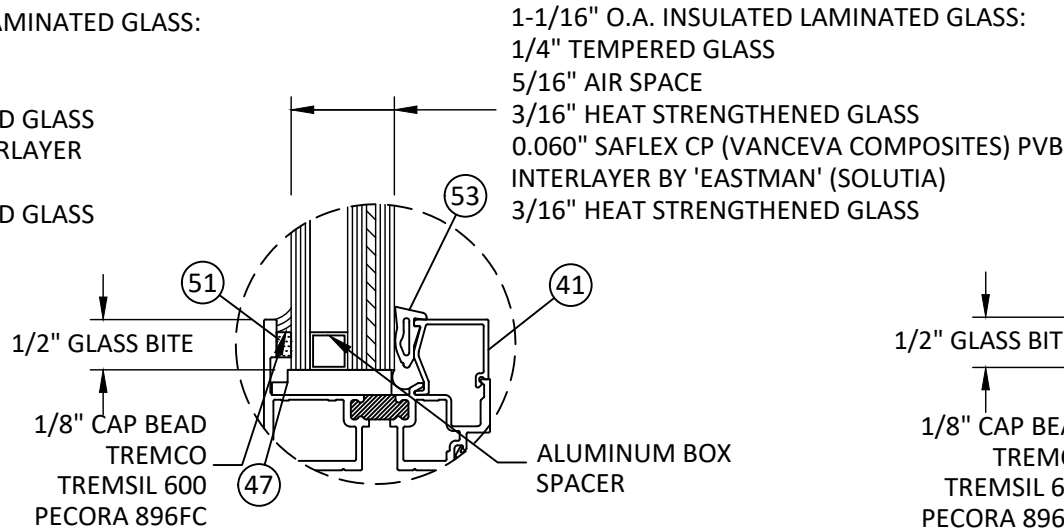


GLAZING DETAIL I2

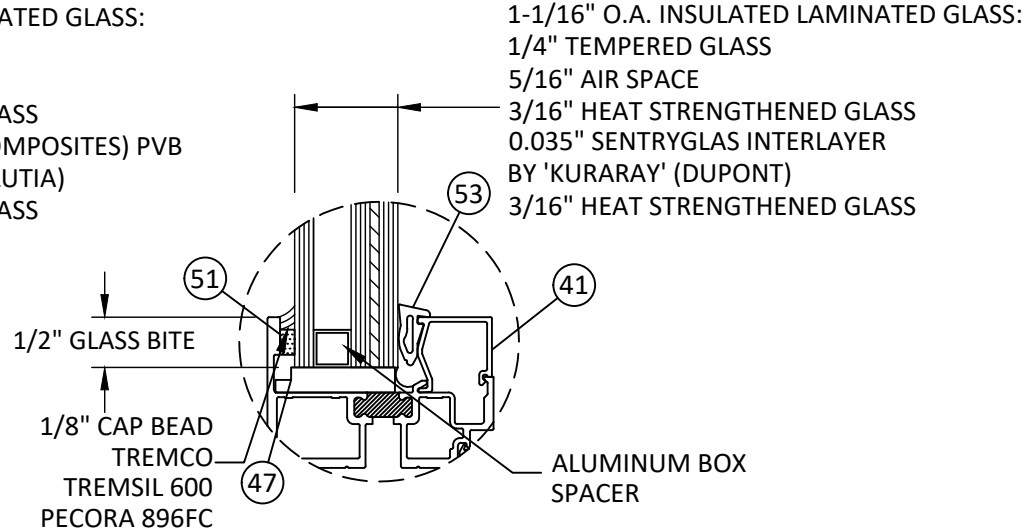
SMALL MISSILE IMPACT RATED GLAZING OPTIONS, DP +/- 65 PSF @ 60" X 36" MAX. VENT SIZE



GLAZING DETAIL F



GLAZING DETAIL G



GLAZING DETAIL H

NOTES:

- 1) GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E1300 GLASS CHART REQUIREMENTS.
- 2) ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE FBC.
- 3) ALL LITES GREATER THAN 36" IN WIDTH SHALL UTILIZE SETTING BLOCKS IN ACCORDANCE WITH THE FBC. CH.24
- 4) SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.

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
PROJECT OUT 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. #: YKK014

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YOW 225 TUH BILL OF MATERIALS					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
1A	BE9-4519	FRAME HEAD AND SILL	6063-T5	YKK-AP	HEAVY FRAME
1B	BE9-4501	FRAME HEAD AND SILL	6063-T5	YKK-AP	STANDARD FRAME
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 STOP COVER	6063-T5	YKK-AP	
23	BE9-4512	MEETING STILE INTEGRAL MULL	6063-T5	YKK-AP	
24					
25					
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					
30					
31					
32	E1-1782	HINGE BASE 22"	6063-T5	YKK-AP	
33	E1-1786	CORNER BLOCK	6063-T5	YKK-AP	
34	E1-1787	CORNER BLOCK	6063-T5	YKK-AP	
35	E1-1839	HINGE BASE 16" RH	6063-T5	YKK-AP	
36	E1-1840	HINGE BASE 16" LH	6063-T5	YKK-AP	
37					
38					
39					
40	E1-1959	SNUBBER BASE	6063-T5	YKK-AP	MADE FROM E9-4591, 2" LONG
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	E2-0644	CORNER GASKET	BUTYL	YKK-AP	
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 MATERIALS					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
53	E2-0672	WEDGE GASKET	EPDM		DUROMETER 70 +/-5
54	E3-1103	SNUBBER - STANDARD	MOLDED NYLON	IPS USA	
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					
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 ¼" X 1" CLIP	6063-T5	YKK-AP	
66	E9-4557	1 ½" 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 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					
75					
76					
77					
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
80	FF-1016-SS	#10-24 X 1" FH MS SS F	300 SS		FOR SNUBBER TO FRAME
81					
82	HD-2516-W3	1/4-20 X 1" HWHS SS	300 SS		1 1/2" FROM EA. END & 9" MAX. O.C.
83					
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		PECORA 895 NST 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			

YKK

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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
PROJECT OUT WINDOW
(HVHZ) (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

BUILDING DROPS

REMARKS	BY	DATE
7TH FBC CODE CHANGE	MS	04.16.20
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
9TH FBC CODE CHANGE	SH	07.31.26
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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 #:

FL16313

DATE:

10.16.17

DWG. BY:

AR

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK014

SHEET:

12

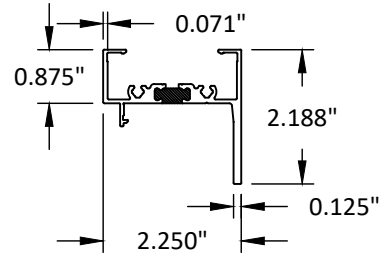
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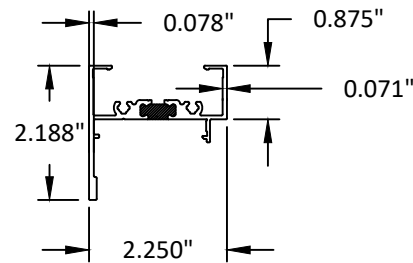
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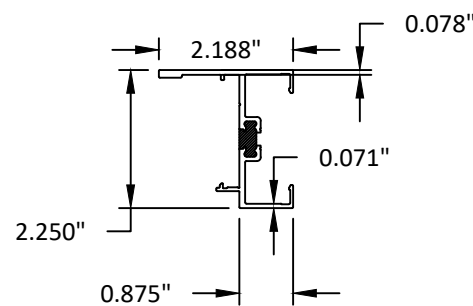
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6063-T5



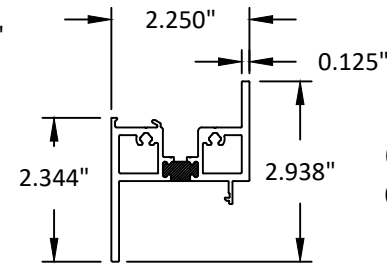
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6063-T5



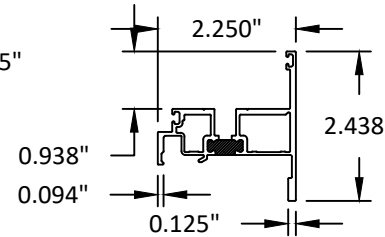
2 FRAME JAMB
6063-T5



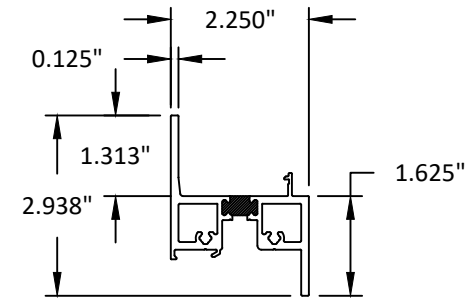
3 MULLION
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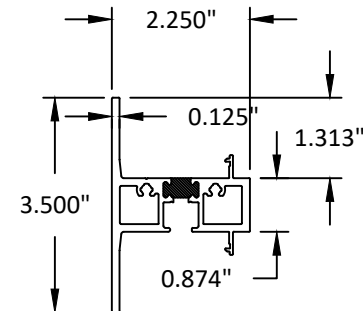
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6063-T5



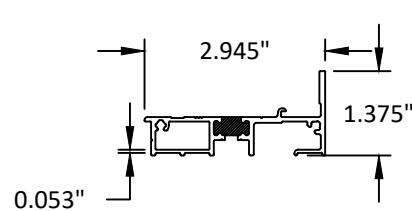
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6063-T5



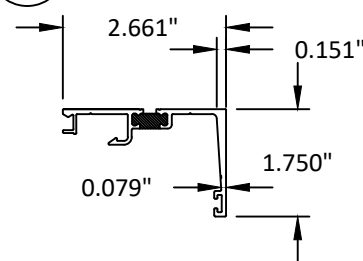
6 MULLION
6063-T5



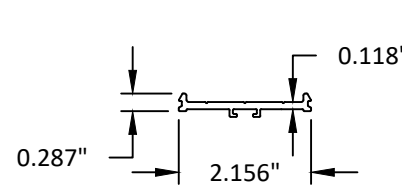
7 2 1/4" WEEPING SILL FLASHING
6063-T5



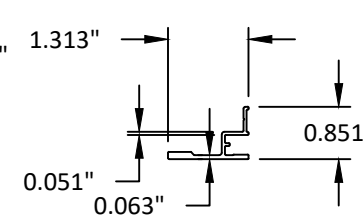
8 RECEPTOR
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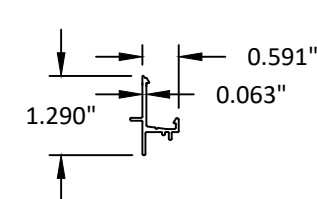
9 PRESSURE BAR
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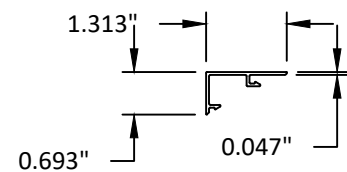
10 ADAPTOR
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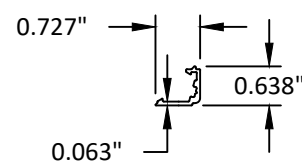
11 FIXED GLASS STOP
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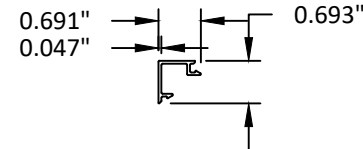
12 FIXED SNAP COVER
6063-T5



13 VENT GLASS STOP
6063-T5

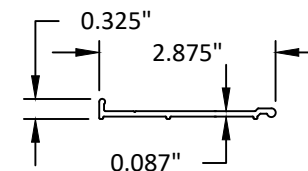


14 VENT SNAP COVER
6063-T5

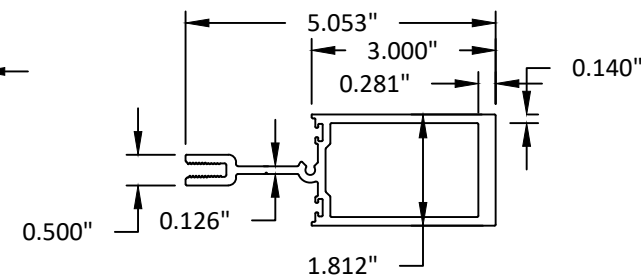


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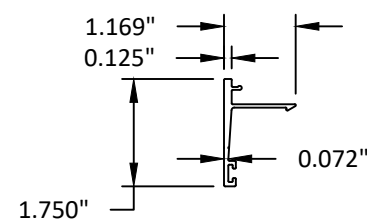
16 SILL TRIM BASE
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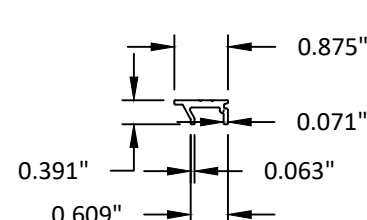
17 STACKING MULLION
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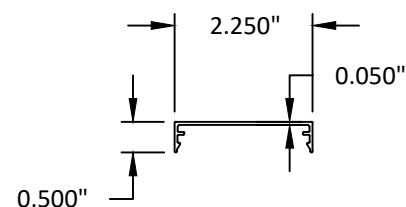
18 RECEPTOR STOP
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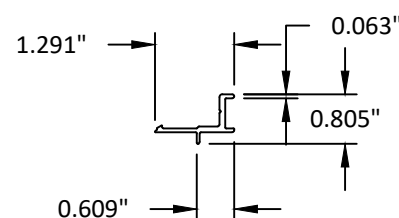
19 LOCK BAR BASE
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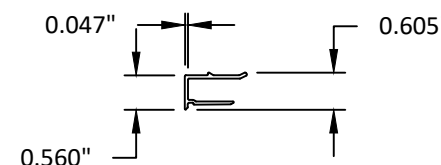
20 COVER
6063-T5



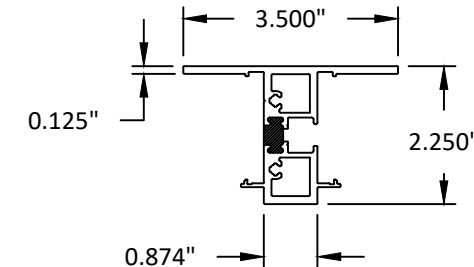
21 FIXED GLASS STOP
6063-T5



22 FIXED GLASS STOP COVER
6063-T5



23 MEETING STILE MULLION
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
PROJECT OUT 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



REMARKS	BY	DATE
7TH FBC CODE CHANGE	MS	04.16.20
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
9TH FBC CODE CHANGE	SH	07.31.26

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DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:

FL16313

DATE: 10.16.17

DWG. BY:
AR

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK014

SHEET:

13

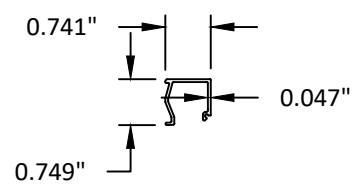
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OF 15

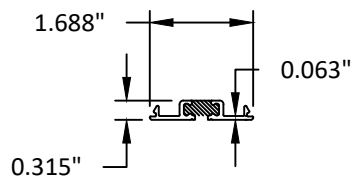
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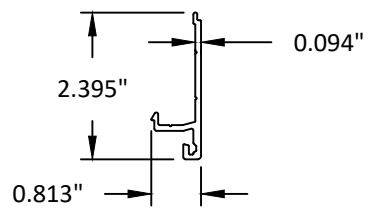
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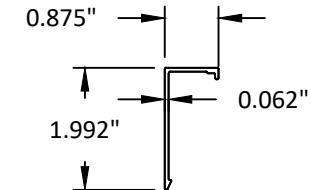
60 THROUGH FRAME FILLER PLATE
6063-T5



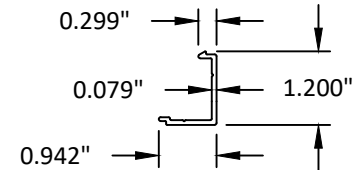
63 ANCHOR CLIP
6063-T5



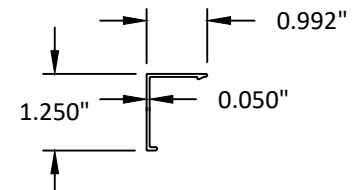
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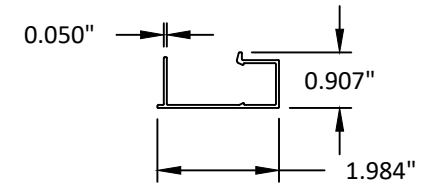
65 1 1/4" X 1" CLIP
6063-T5



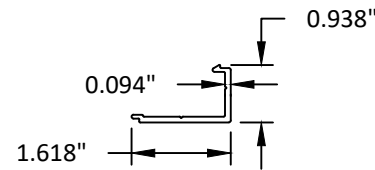
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6063-T5



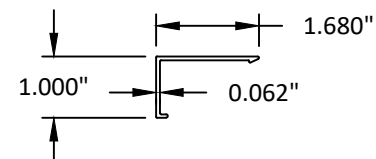
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6063-T5



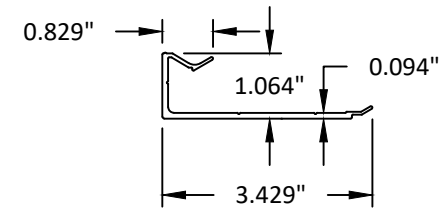
68 1" X 1 11/16" CLIP
6063-T5



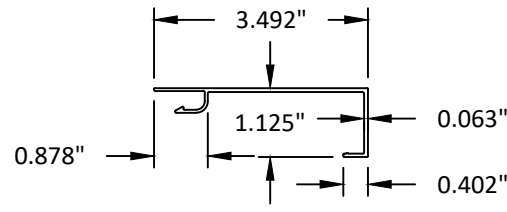
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6063-T5



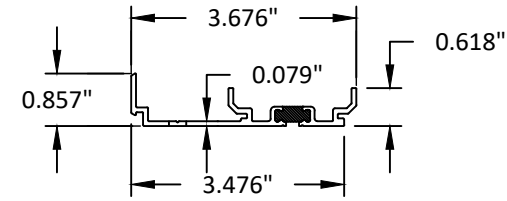
70 1 1/8" X 3 1/2" CLIP
6063-T5



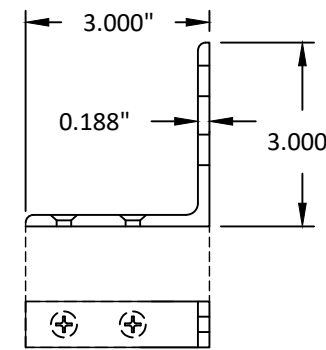
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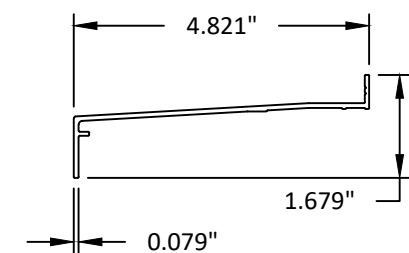
72 STRAP ANCHOR
6063-T5
MINIMUM 4 1/2" LENGTH



73 MULLION CLIP
6063-T5



102 4" SILL TRIM
6063-T5





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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 TUI THERMAL ALUMINUM
PROJECT OUT WINDOW
(HVHZ) (IMPACT)
COMPONENTS 2

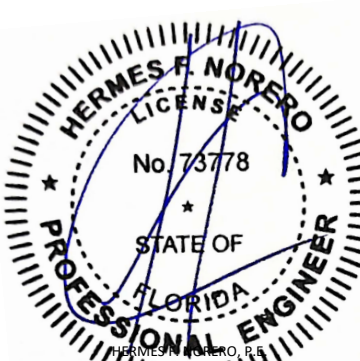
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



BUILDING DROPS

REMARKS	BY	DATE
7TH FBC CODE CHANGE	MS	04.16.20
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
9TH FBC CODE CHANGE	SH	07.31.26

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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 #:
FL16313

DATE: **10.16.17**

DWG. BY:
AR

CHK. BY:
HFN

SCALE: **NTS**

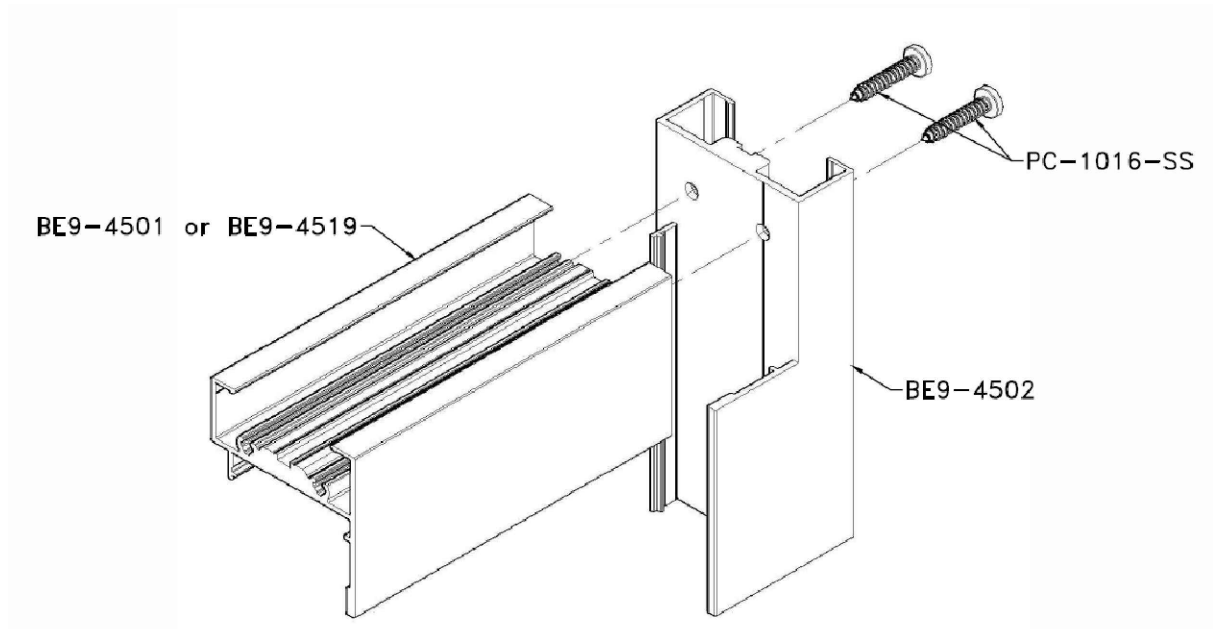
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SHEET:
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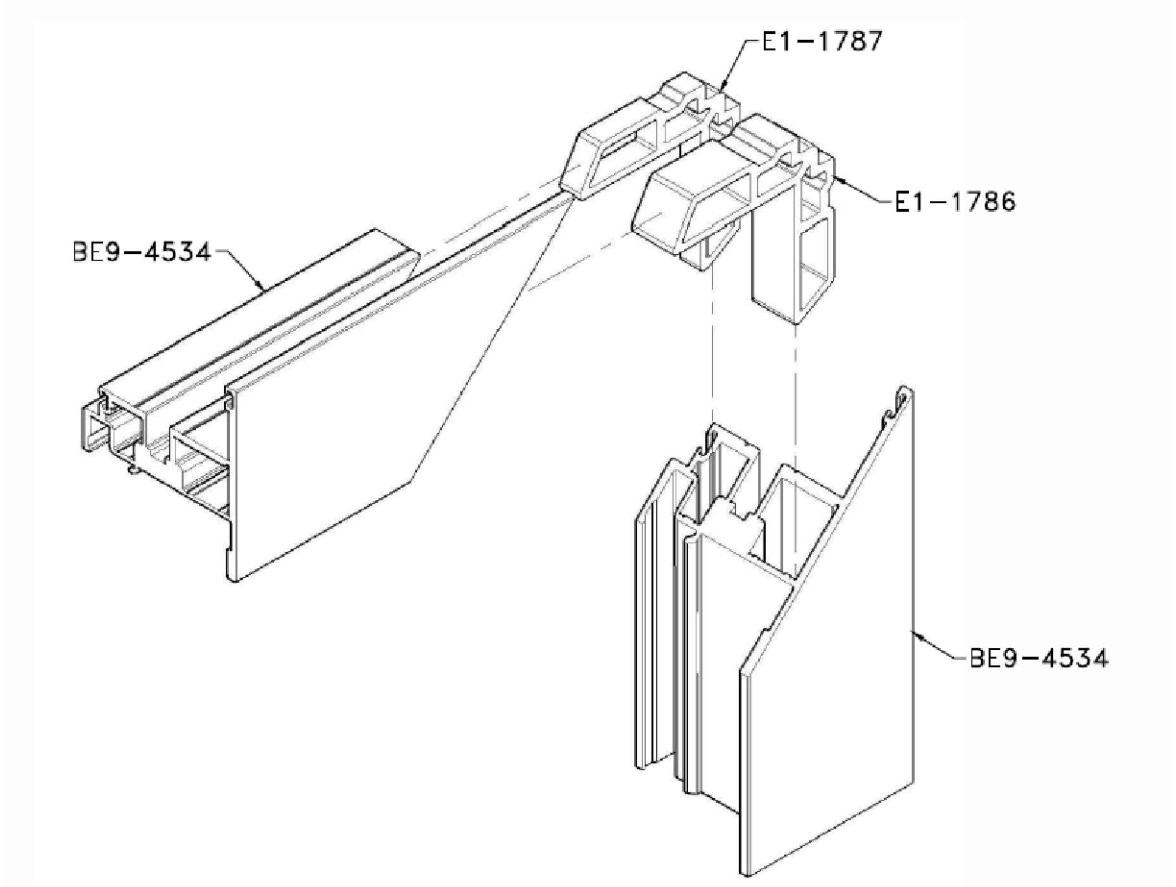
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FRAME CORNER CONSTRUCTION
TYPICAL



VENT CORNER CONSTRUCTION



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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 TUV THERMAL ALUMINUM
PROJECT OUT WINDOW
(HVHZ) (IMPACT)
CORNER CONSTRUCTION

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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REMARKS

BY

DATE

7TH FBC CODE CHANGE

MS

04.16.20

MISC UPDATES

SH

09.26.22

8TH FBC CODE CHANGE

SH

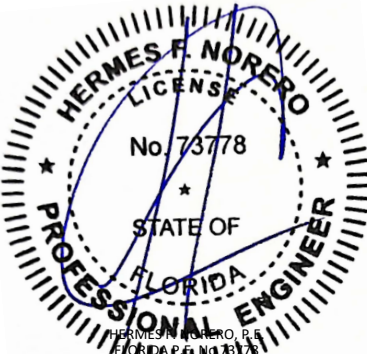
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9TH FBC CODE CHANGE

SH

07.31.26

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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 #:

FL16313

DATE:

10.16.17

DWG. BY:

AR

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK014

SHEET:

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REV.

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OF 15