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YKK AP America, Inc.

YVS 410 TUH SINGLE HUNG WINDOW

(HVHZ) (IMPACT)

INSTALLATION NOTES:

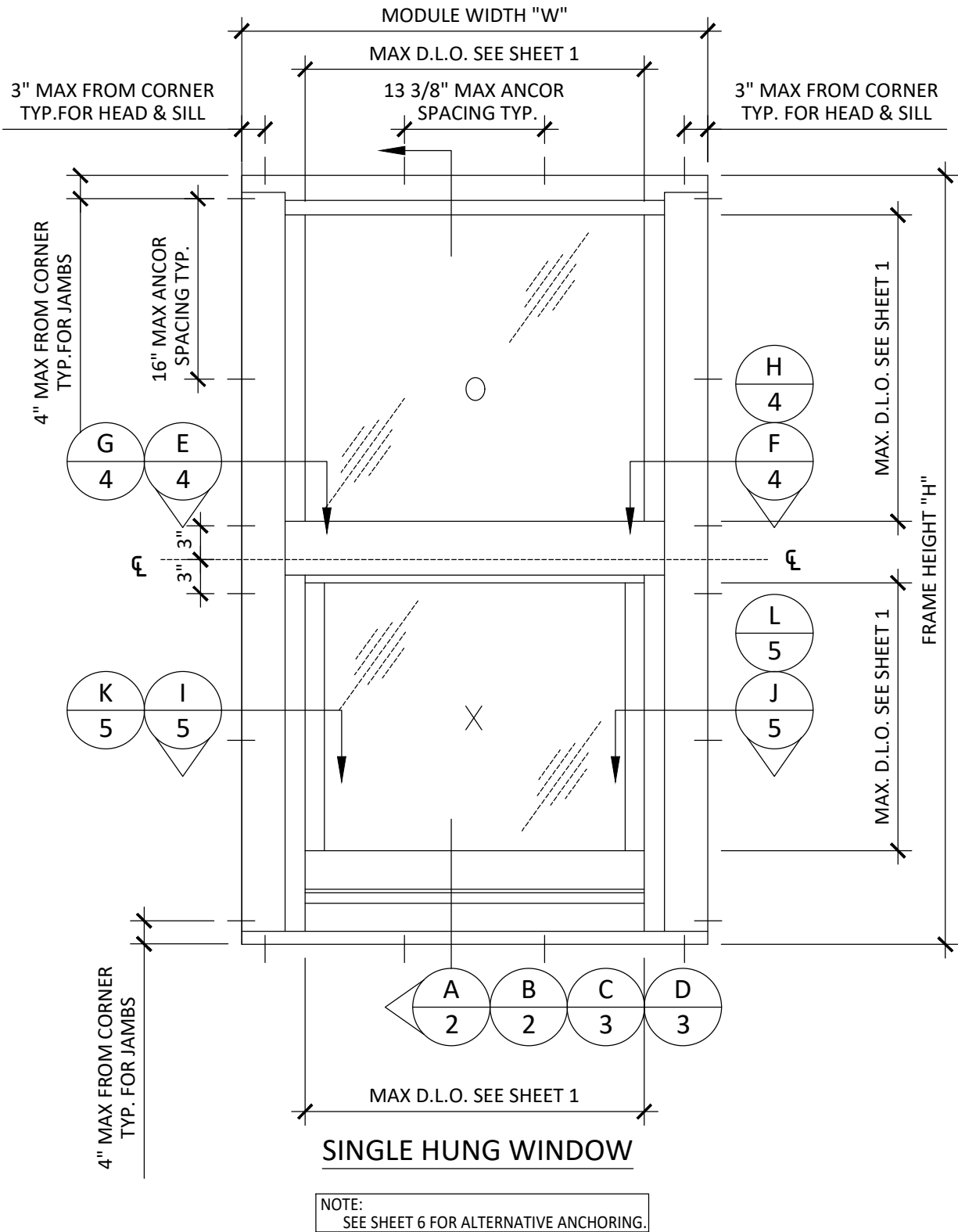
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITH OUT CONSIDERATION OF TOLERANCE). TOLERANCE ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR INSTALLATION THROUGH WOOD BUCK USE #14 WOOD SCREWS WITH EMBEDMENT AS SHOWN.
- FOR INSTALLATION INTO CONCRETE/MASONRY, USE 1/4" DIAMETER ITW TAPCON SCREWS WITH EMBEDMENT AS SHOWN.
- FOR INSTALLATION INTO STEEL STUDS, USE 1/4" SELF-DRILLING GR. 5 SCREW WITH EMBEDMENT AS SHOWN.
- FOR INSTALLATION THROUGH APPROVED ALUMINUM MULLIONS, USE 1/4" SLEF-DRILLING GR. 5 SCREW WITH EMBEDMENT AS SHOWN.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- 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.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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 3000 PSI COMPRESSIVE STRENGTH
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS.
 - ALUMINUM - MINIMUM 0.067 INCH THICK, 6063-T5 ALUMINUM.

TYP. FRAME SIZE	CONFIGURATION	MAX. D.L.O.	IMPACT RATE
43-3/8" X 72"	O / X	36-7/8" X 31-3/4" (O) 34-7/8" X 30-5/8" (X)	L.M.I.
42" X 72"	O / X	35-1/2" X 32-5/8" (O) 33-1/2" X 29-3/4" (X)	S.M.I.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS-202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL 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.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE 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 CONDITION CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.
- GLAZING SHALL MEET ASTM E1300 REQUIREMENTS, SEE GLAZING DETAILS ON SHEETS 7 AND 8.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL, INSTALLATION NOTES & ELEVATION
2	VERTICAL SECTIONS
3	VERTICAL SECTIONS CONT'D
4	HORIZONTAL SECTION FIXED JAMB
5	HORIZONTAL SECTION VENT JAMB
6	ALTERNATIVE ANCHOR OPTIONS
7	GLASS DETAIL (L.M.I.) & PRESSURE CHART
8	GLASS DETAILS (S.M.I.)
9	COMPONENTS & BILL OF MATERIALS
10	COMPONENTS



YKK AP America, Inc.
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DUBLIN, GA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YVS 410 TUH SINGLE HUNG WINDOW
(HVHZ) (IMPACT)

INSTALLATION, GENERAL NOTES
& ELEVATION

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

REMARKS	BY	DATE
8TH FBC CODE CHANGE	OL	6.08.23

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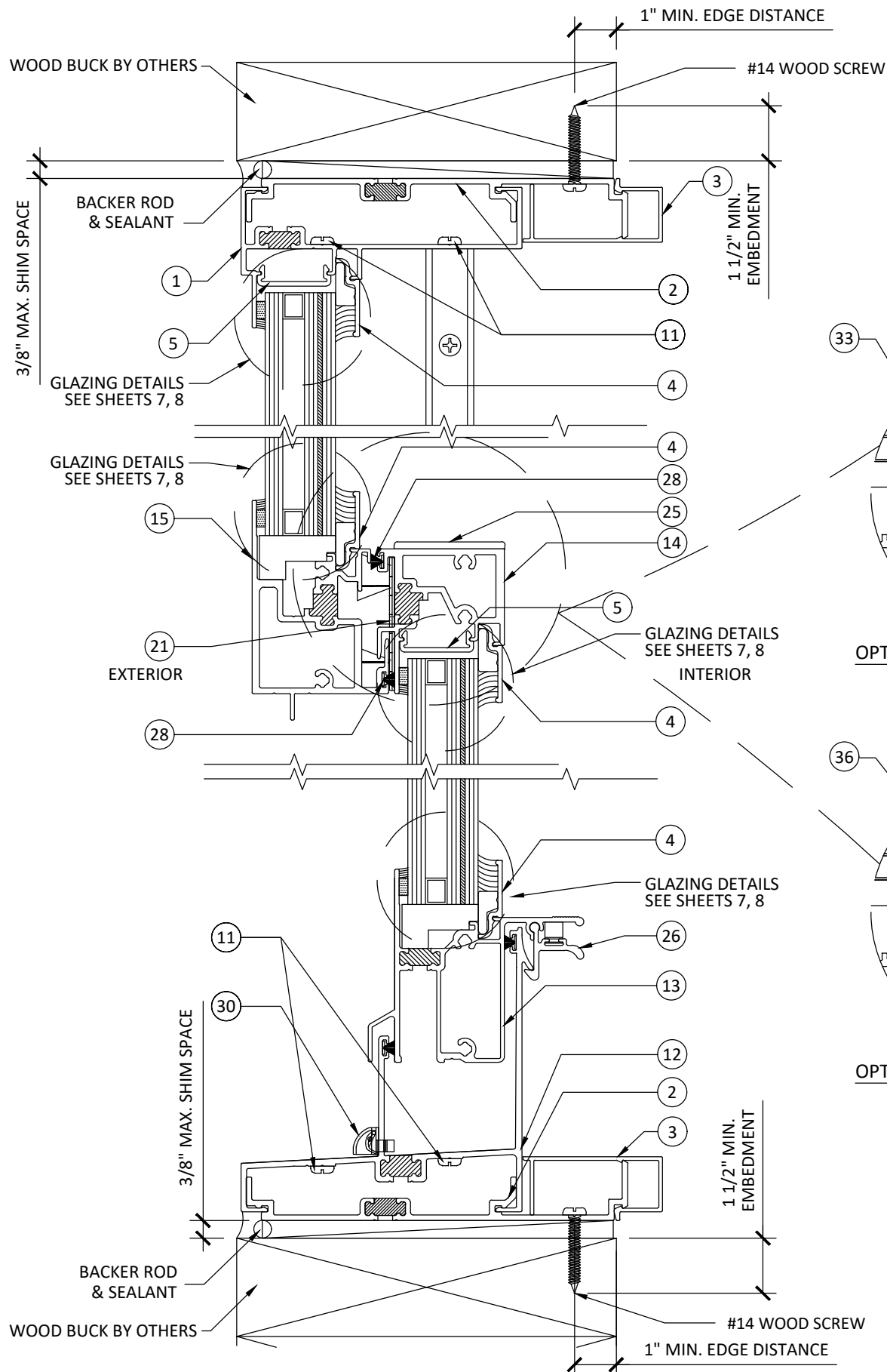
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Reason: I am approving this document
Date: 2023.08.01 12:40:51 -04'00'

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

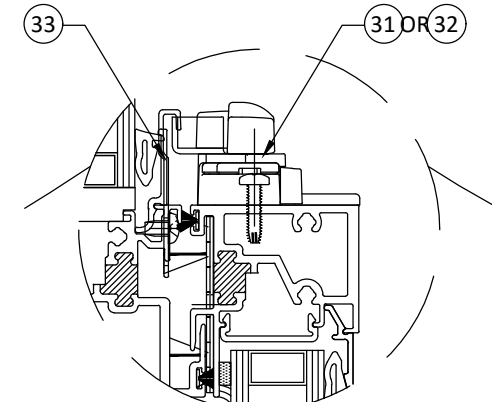
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DWG. BY:	LS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK061
SHEET:	1

OF 10

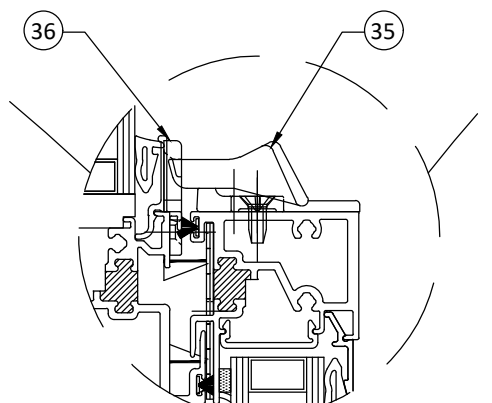
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A
2
VERTICAL SECTION
2X WOOD BUCK
THROUGH FRAME

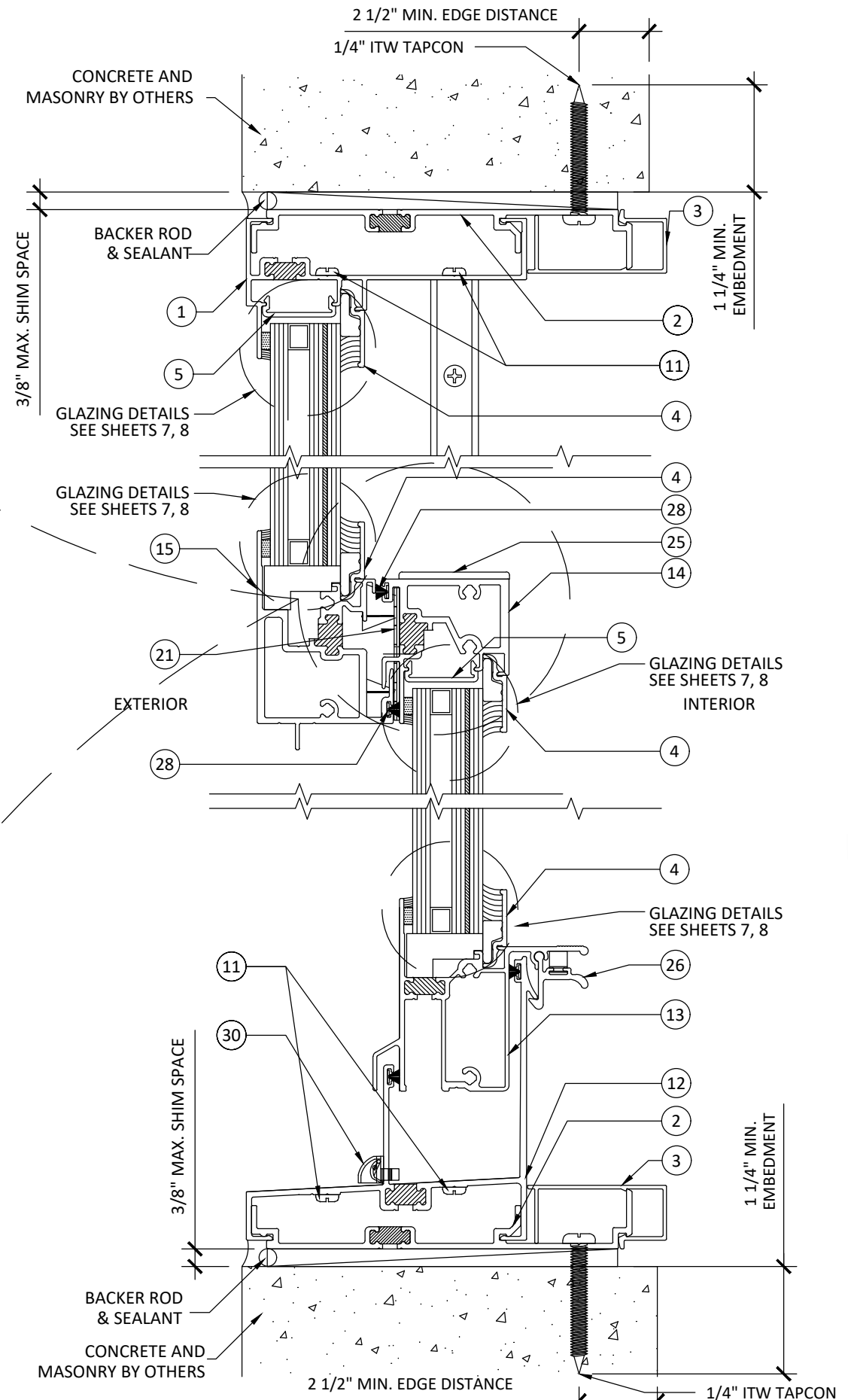


OPTIONAL SECONDARY SWEEP LOCKS



OPTIONAL SECONDARY SWEEP LOCKS

NOTE: SEE SHEET 6
FOR ALTERNATIVE
ANCHOR OPTION



B
2
VERTICAL SECTION
CONCRETE / MASONRY
THROUGH FRAME



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(HVHZ) (IMPACT)

VERTICAL SECTIONS

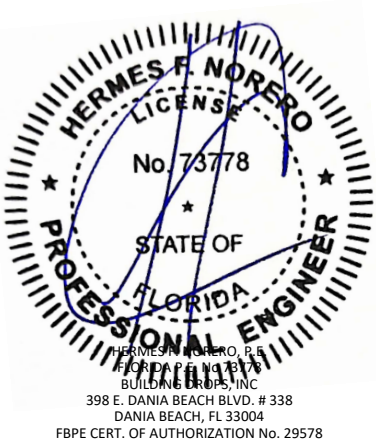
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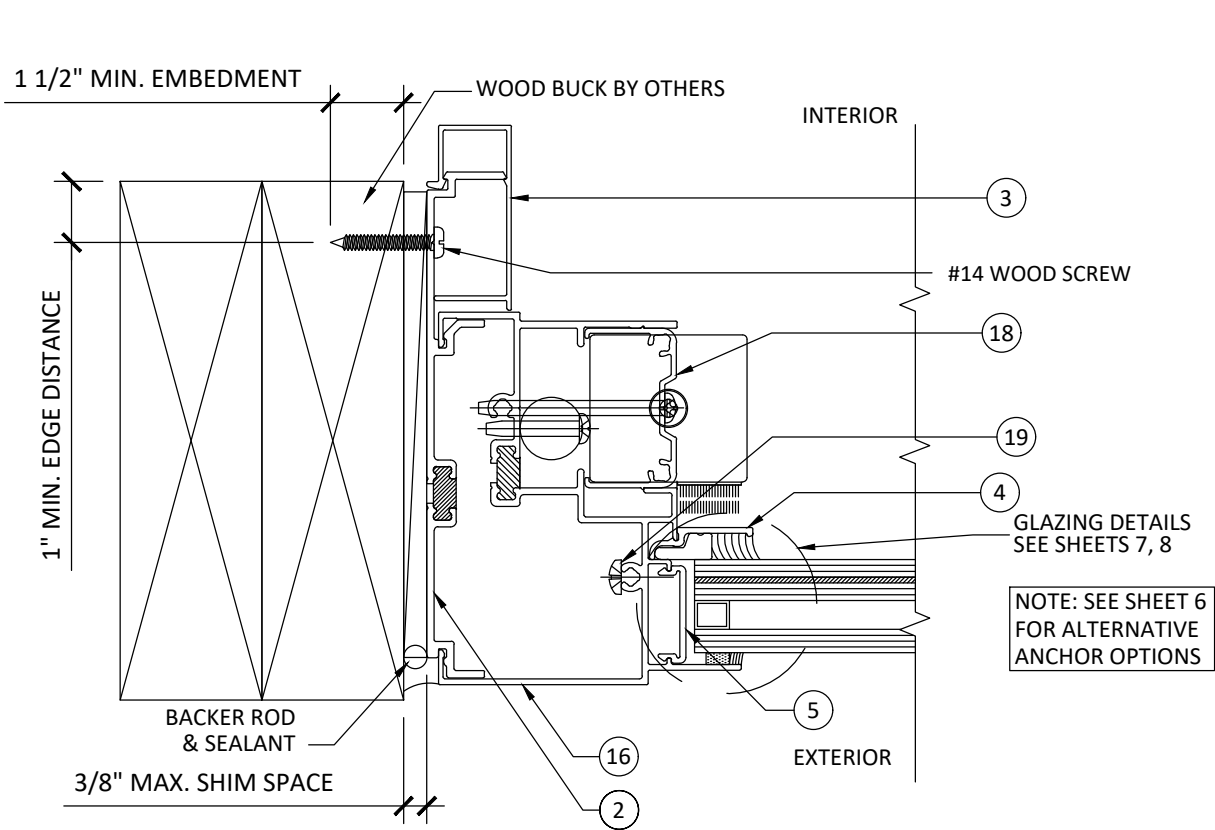


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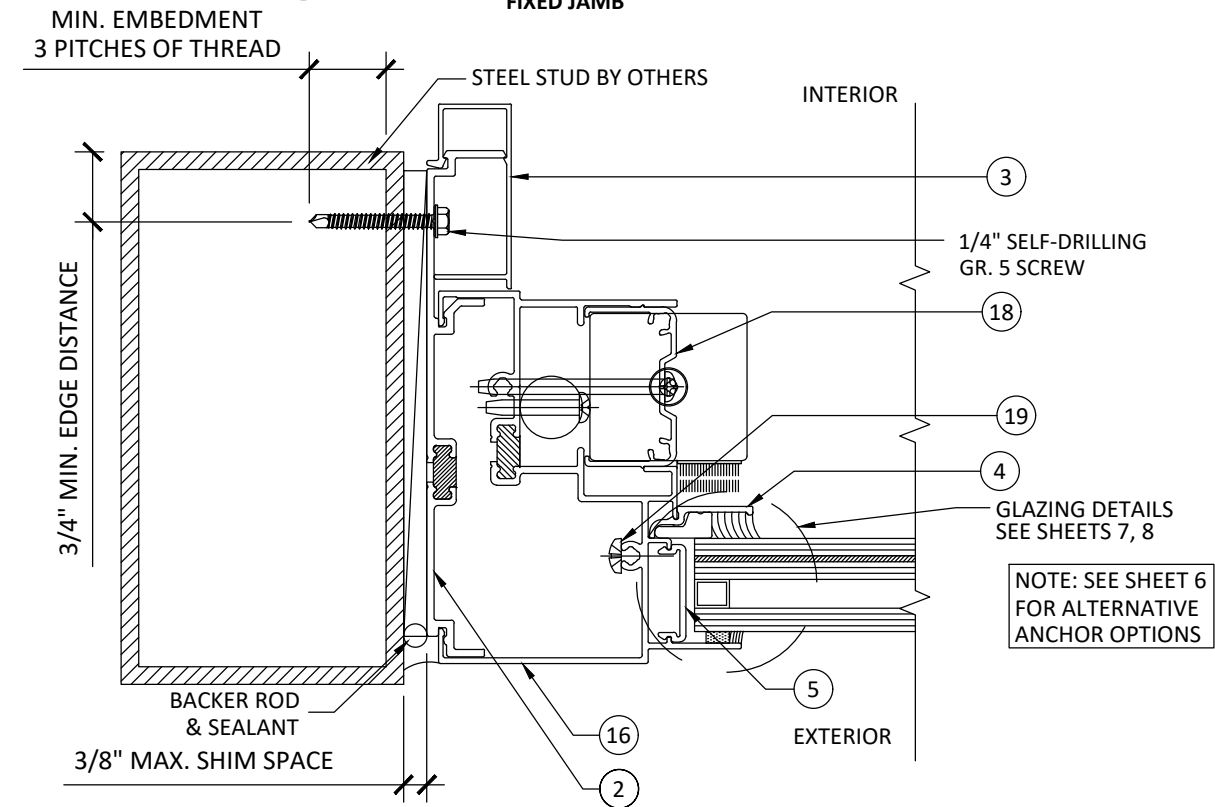
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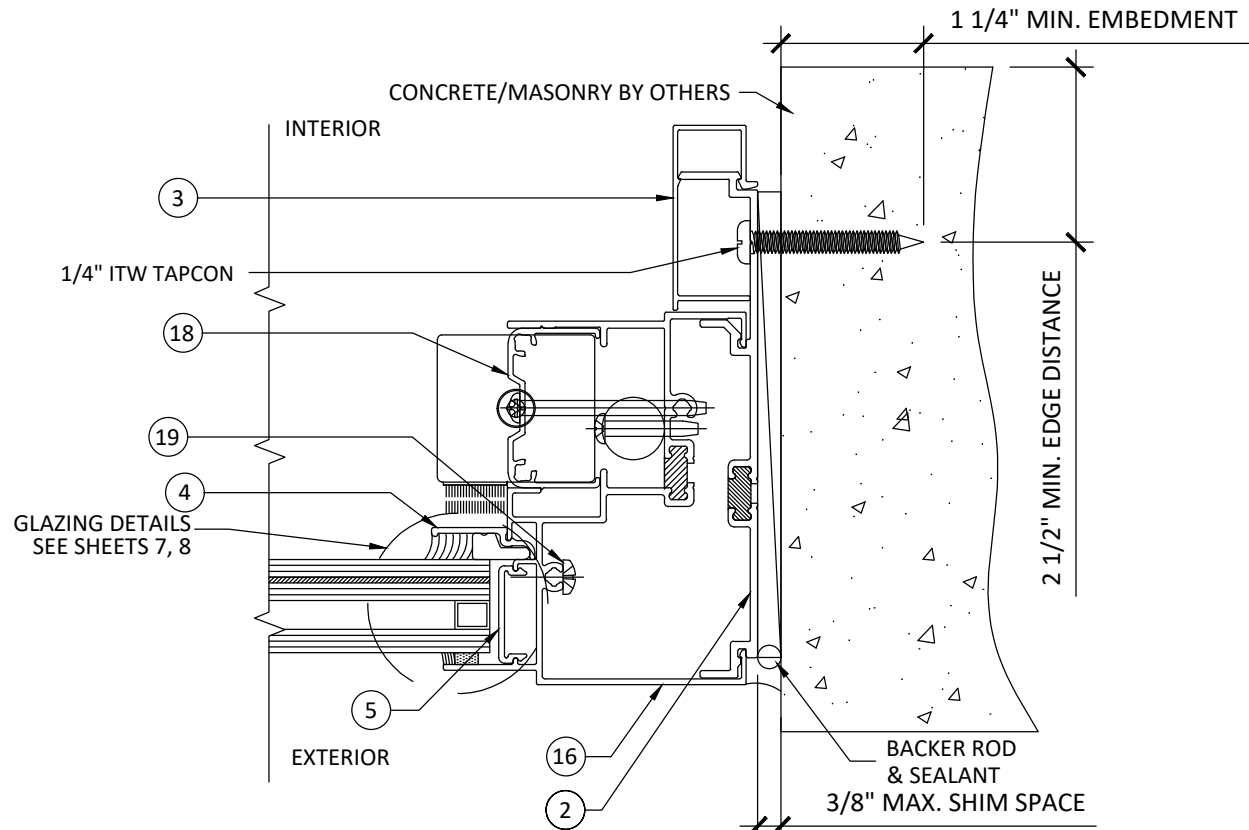
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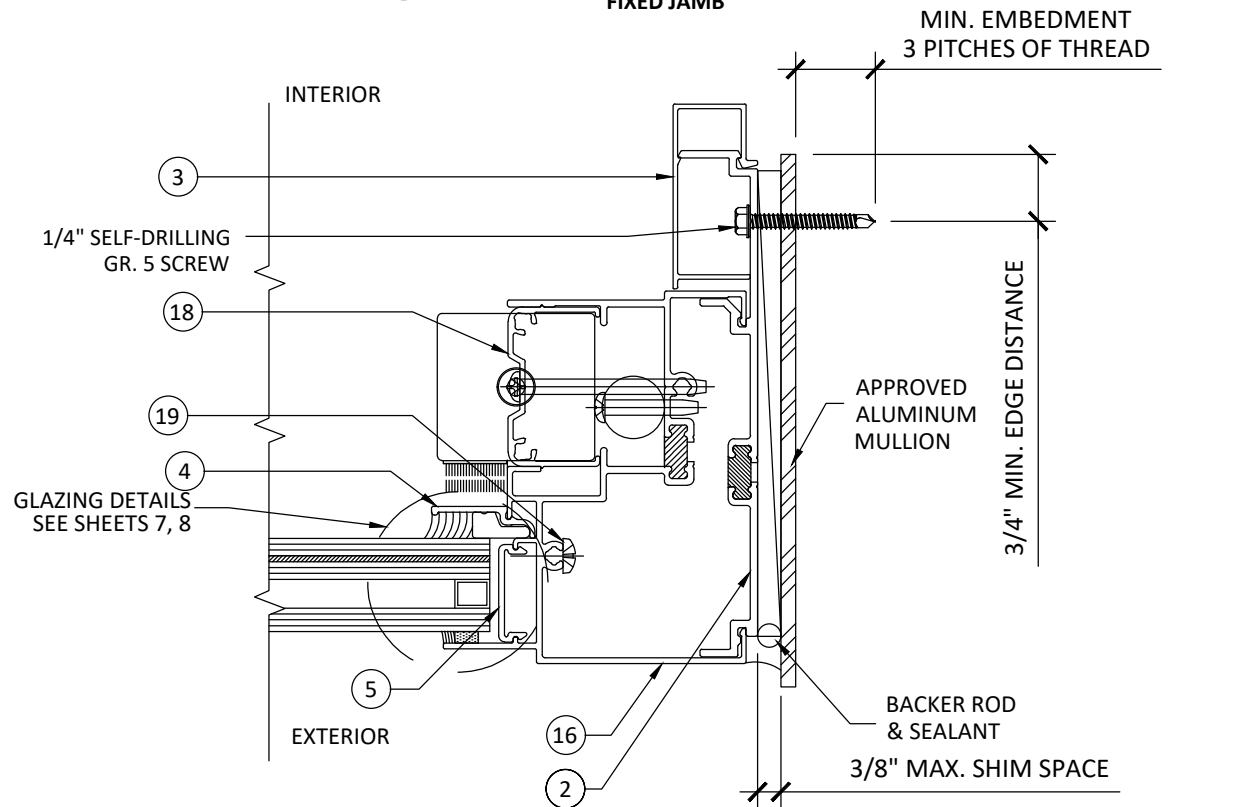
E HORIZONTAL SECTION
4 2X WOOD BUCK
FIXED JAMB



G HORIZONTAL SECTION
4 STEEL
FIXED JAMB



F HORIZONTAL SECTION
4 CONCRETE / MASONRY
FIXED JAMB



H HORIZONTAL SECTION
4 ALUMINUM
FIXED JAMB



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HORIZONTAL SECTIONS

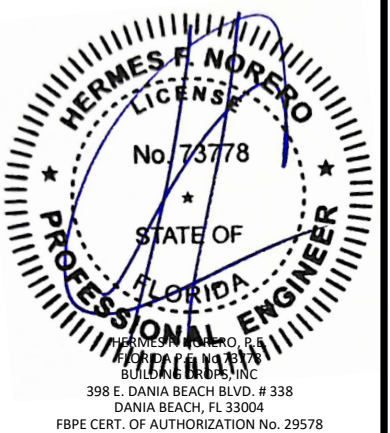
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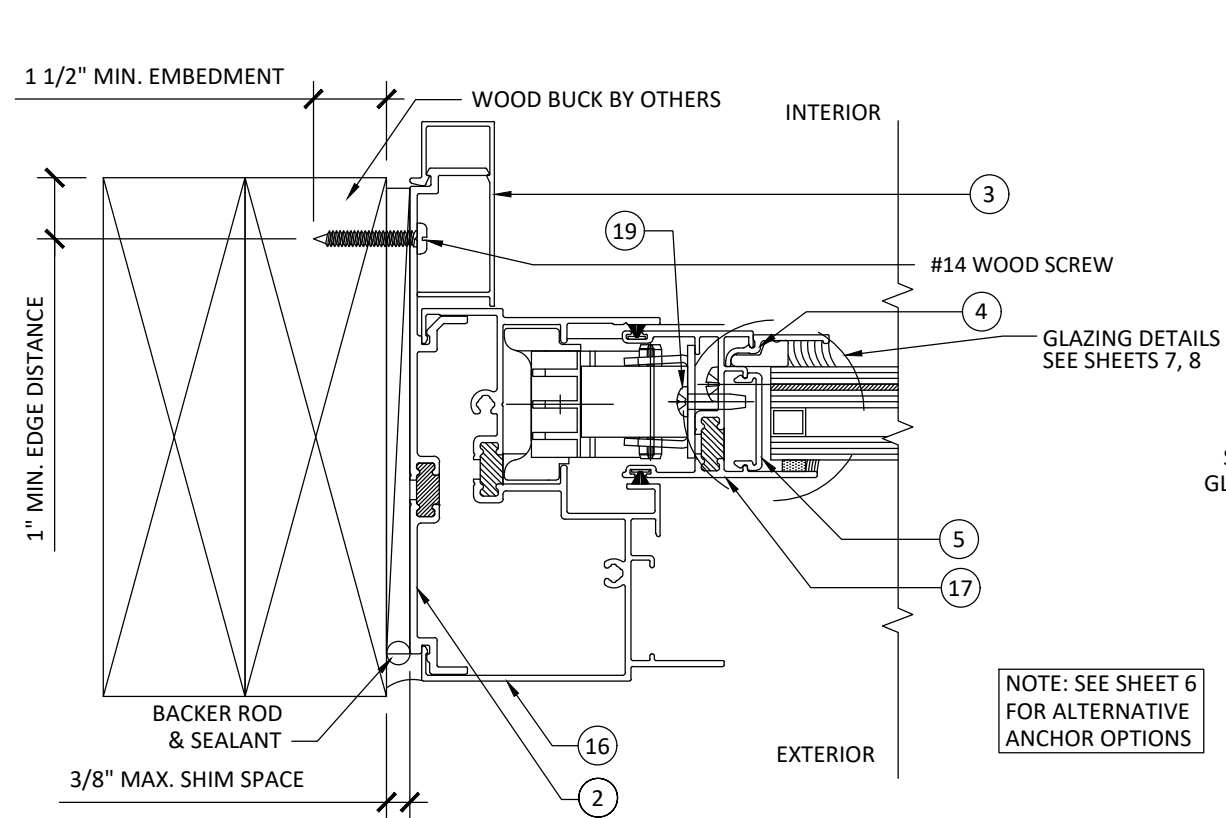
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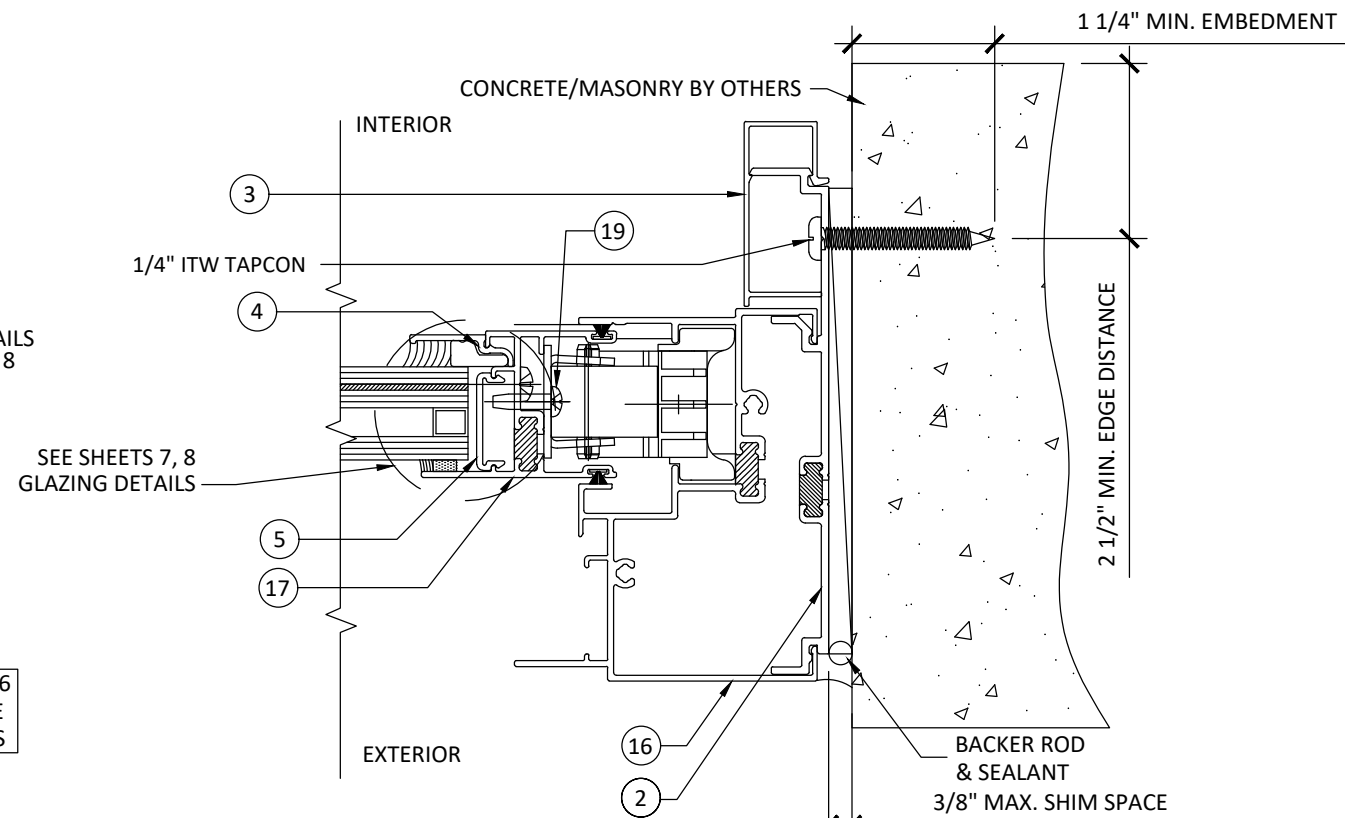


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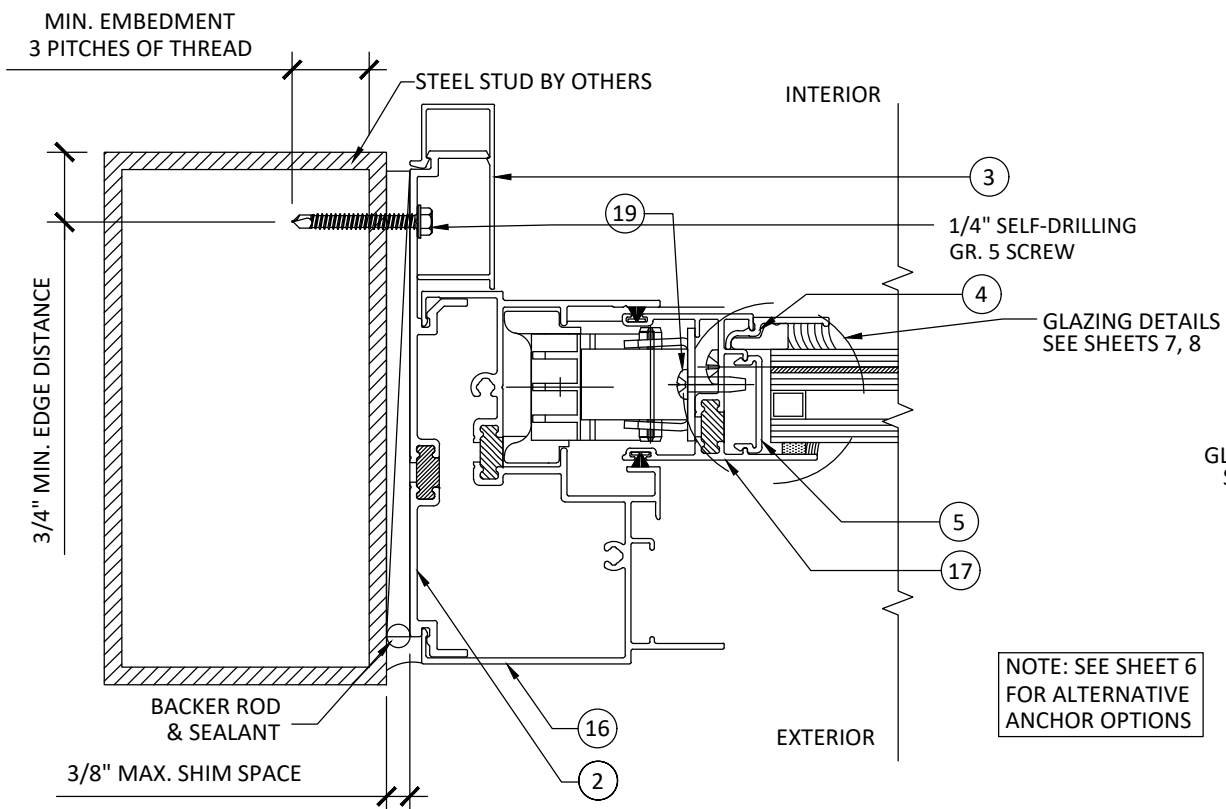
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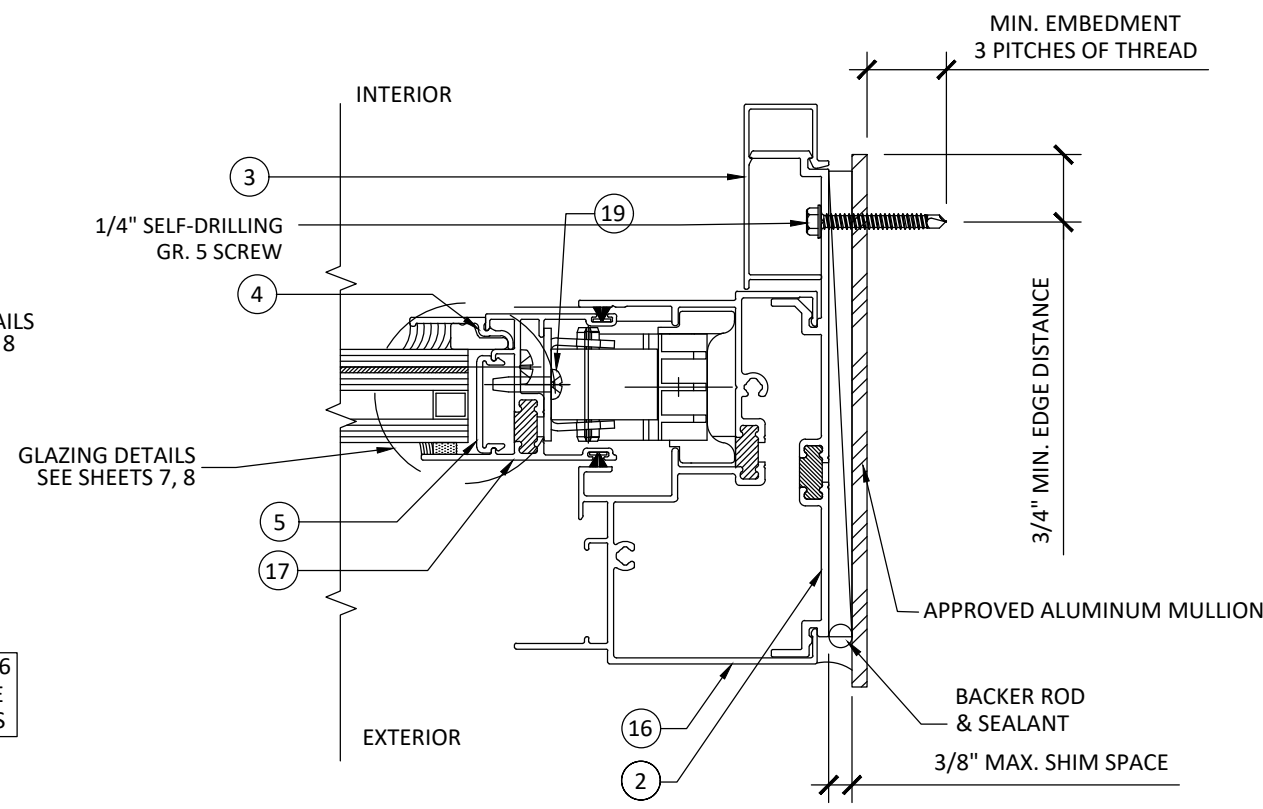
I
5 **HORIZONTAL SECTION**
2X WOOD BUCK
VENT JAMB



J
5 **HORIZONTAL SECTION**
CONCRETE / MASONRY
VENT JAMB



K
5 **HORIZONTAL SECTION**
STEEL
VENT JAMB



L
5 **HORIZONTAL SECTION**
ALUMINUM
VENT JAMB



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HORIZONTAL SECTIONS

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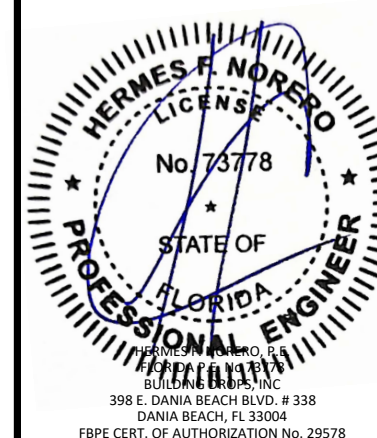
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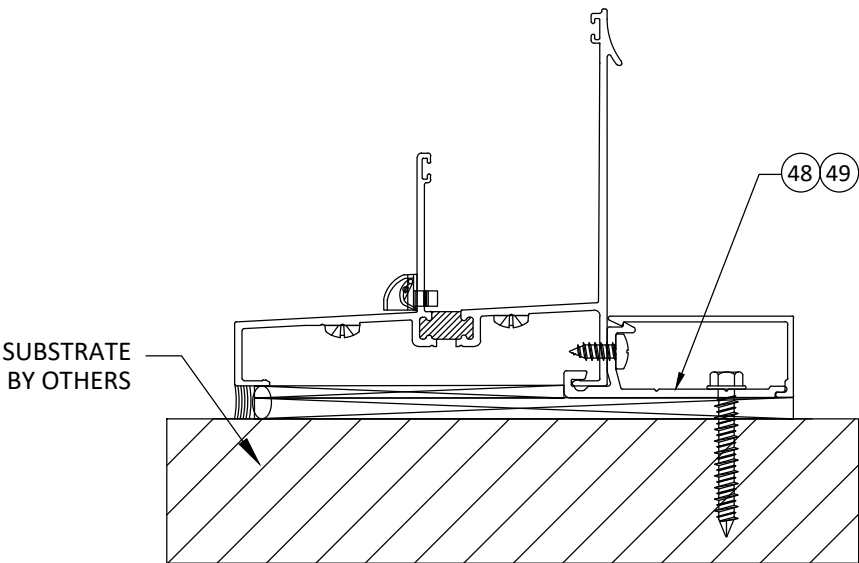
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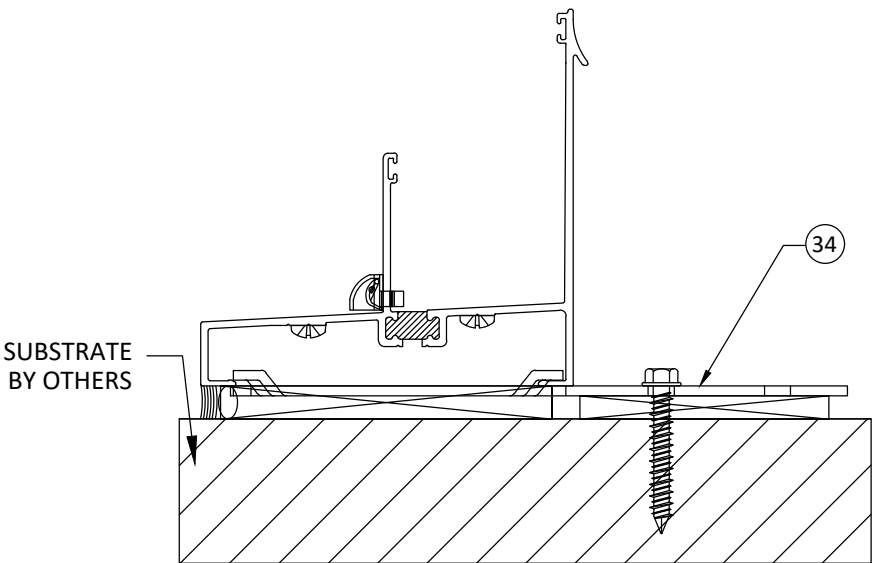
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ALTERNATIVE ANCHOR OPTIONS

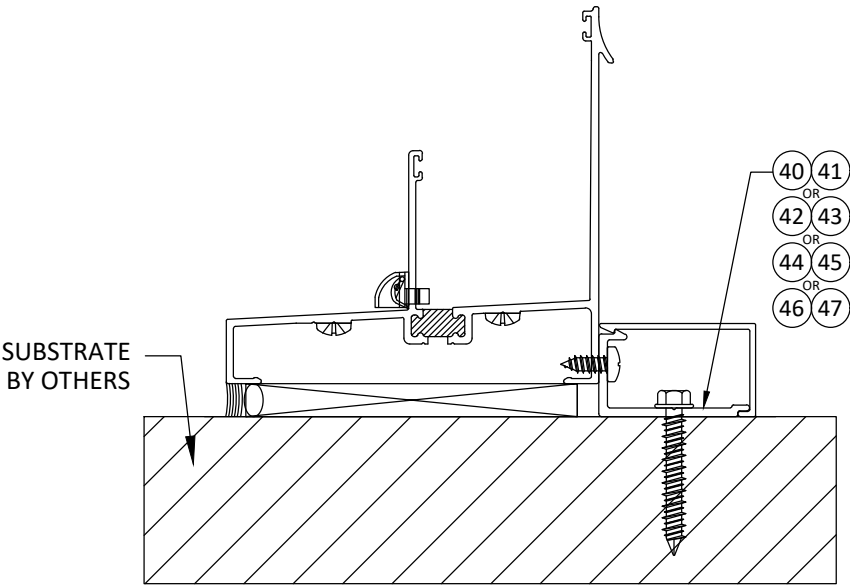
L.M.I. / S.M.I.



M
6 **VERTICAL SECTION**
CLIP ANCHOR
TYP. HEAD, JAMB & SILL



N
6 **VERTICAL SECTION**
TWIST ANCHOR
TYP. HEAD, JAMB & SILL



O
6 **VERTICAL SECTION**
TRIM CLIP ANCHOR
TYP. HEAD, JAMB & SILL



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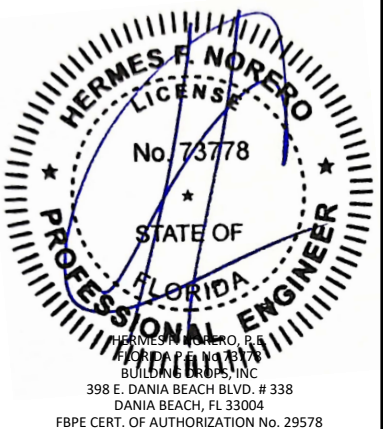
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PRESSURE CHART NOTES

1.

THE DESIGN PRESSURES IN THESE CHARTS ARE FOR THE WINDOW SHOWN HERE WHEN USED PER INSTALLATION INSTRUCTIONS.
2.

DESIGN PRESSURES ARE OBTAINED BY ENGINEERING ANALYSIS CALCULATED IN ACCORDANCE WITH CURRENT FBC.
3.

SELECT FRAME WIDTH (W) AND HEIGHT (H) IN INCHES AND OBTAIN THE MAXIMUM DESIGN PRESSURE FROM THE CHART.
4.

MAX PRESSURES ARE LIMITED TO 100 PSF FOR POSITIVE WIND PRESSURE AND 100 PSF FOR NEGATIVE WIND PRESSURE.
5.

PRESSURE CHARTS INCLUDE ASTM E1300 GLASS PERFORMANCE CRITERIA FOR TYPE 'A' AND TYPE 'B' GLAZING SHOWN ON DETAILS.
6.

PRESSURE CHARTS INCLUDE CAPACITY OF ANCHORS FOR ALL SUBSTRATES SHOWN.

DESIGN PRESSURE TABLE			
Width (in.)	Height (in.)	Positive Design Pressure (PSF)	Negative Design Pressure (PSF)
18	36	80.0	120.0
24		80.0	120.0
30		80.0	120.0
36		80.0	120.0
42		80.0	120.0
48		80.0	120.0
54		57.3	86.0
60		41.4	62.1
18	48	80.0	120.0
24		80.0	120.0
30		80.0	120.0
36		80.0	120.0
42		80.0	120.0
48		64.8	97.2
54		44.5	66.8
60		32.0	47.9
18	60	80.0	120.0
24		80.0	120.0
30		80.0	120.0
36		80.0	120.0
42		80.0	120.0
48		55.1	82.6
54		41.4	62.1
60		28.3	42.5
18	72	80.0	120.0
24		80.0	120.0
30		80.0	120.0
36		80.0	120.0
42		80.0	120.0

- NOTES:
1.

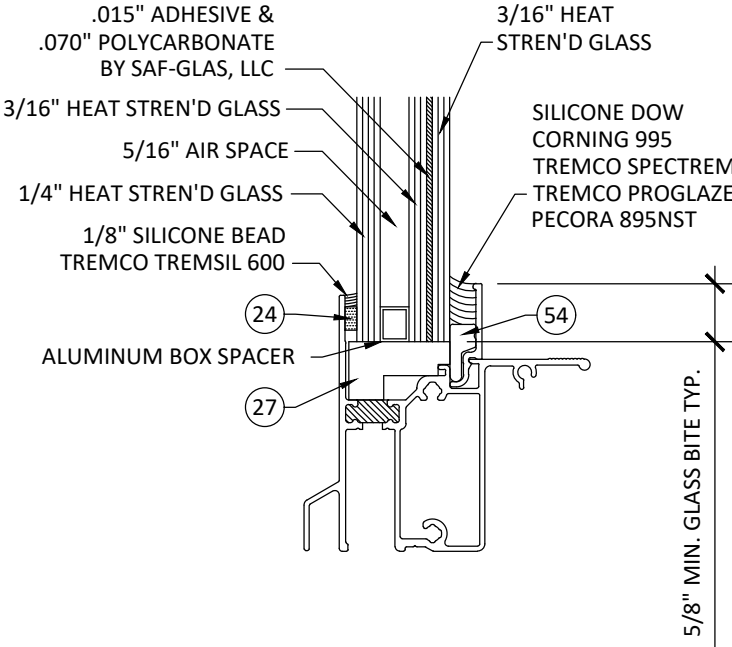
GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E1300 GLASS CHART REQUIREMENTS.
2.

ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE FBC.
3.

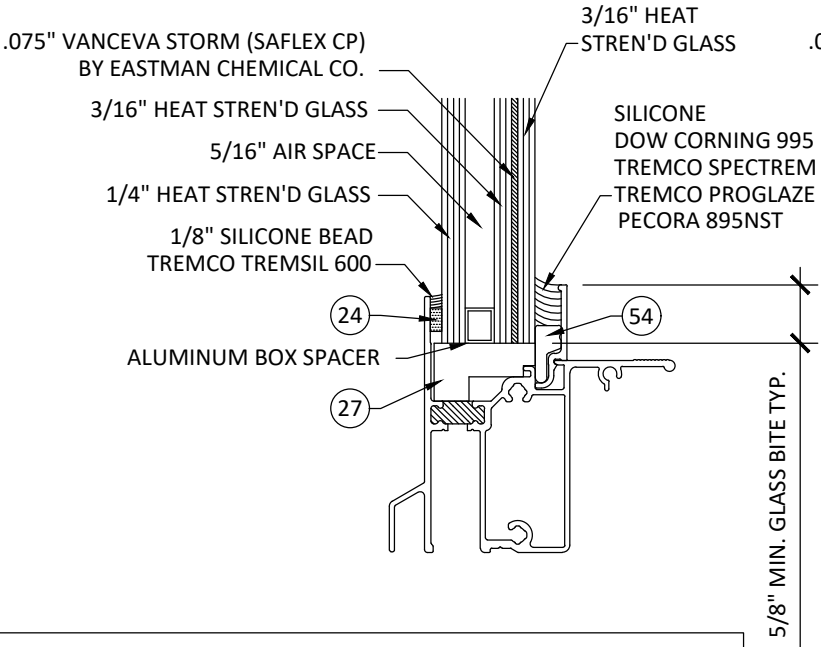
ALL LITES GREATER THAN 36" IN WIDTH SHALL UTILIZE SETTING BLOCKS IN ACCORDANCE WITH THE FBC. CH. 24
4.

SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.

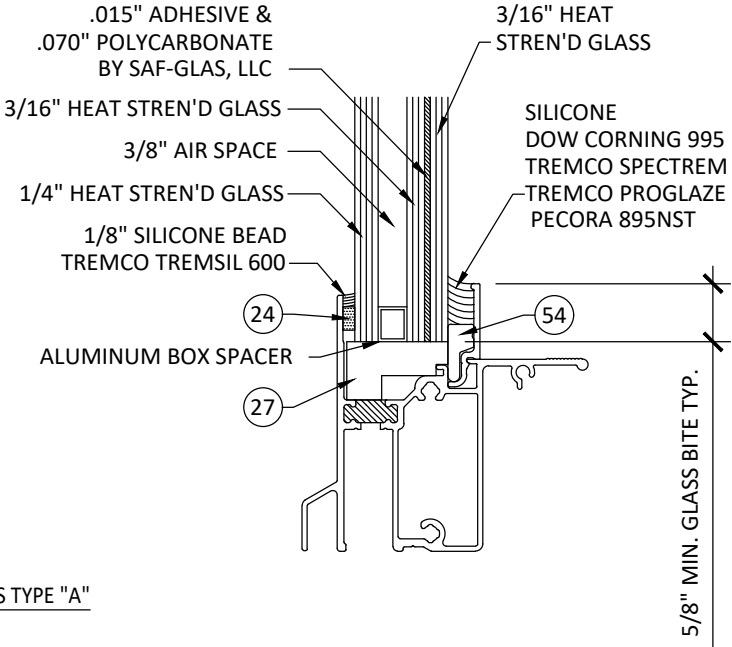
L.M.I. GLAZING DETAILS



GLASS TYPE "A"



GLASS TYPE "B"



- AIR SPACE CONSISTING OF :
- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.

YKK

ap

Quality
inspires™

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DUBLIN, GA 31021
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GLAZING DETAILS (L.M.I.) &
PRESSURE CHARTS

PREPARED BY:

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
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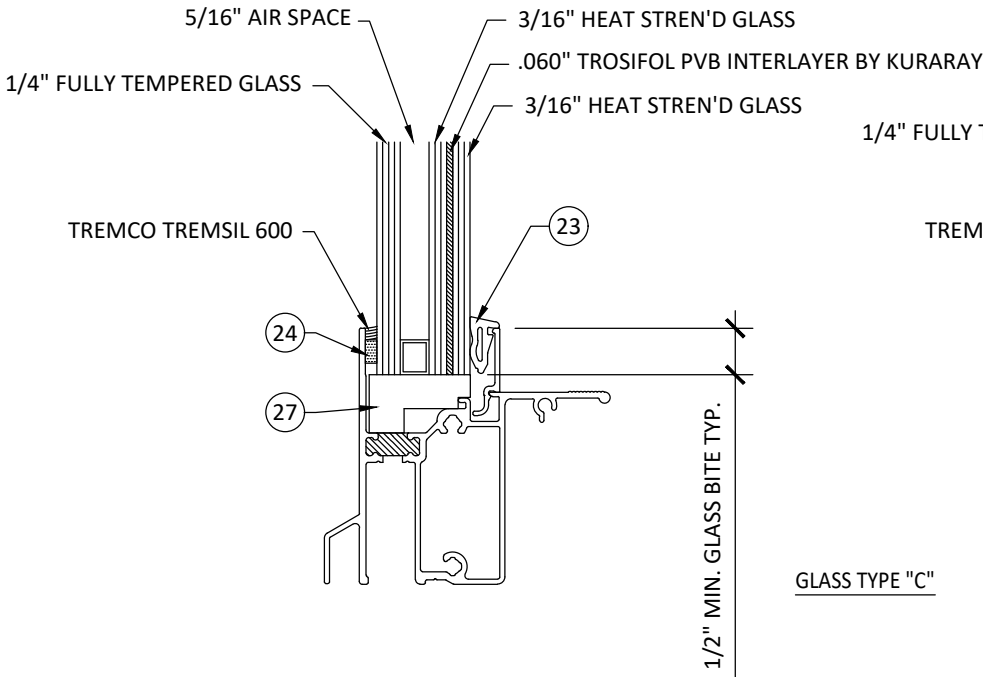
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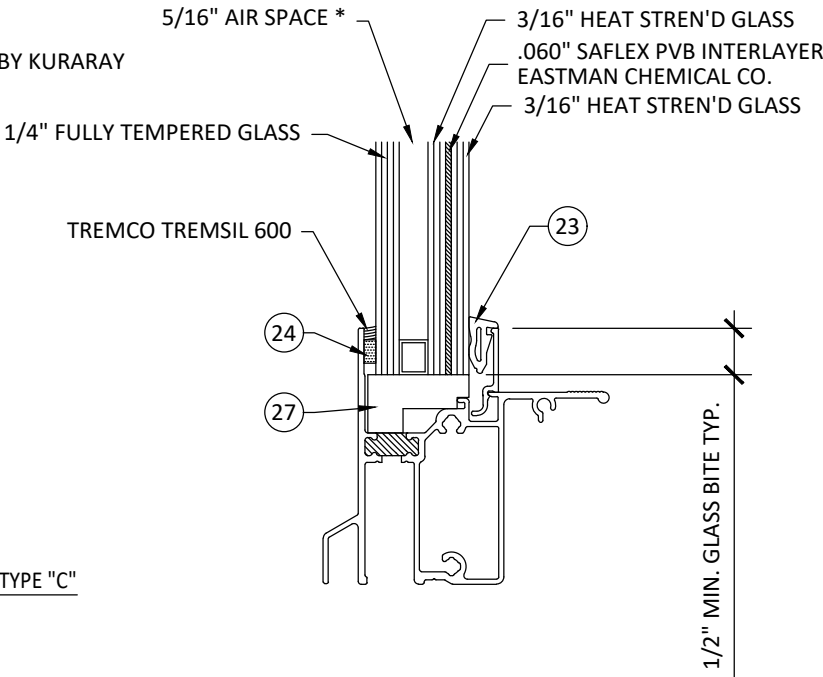
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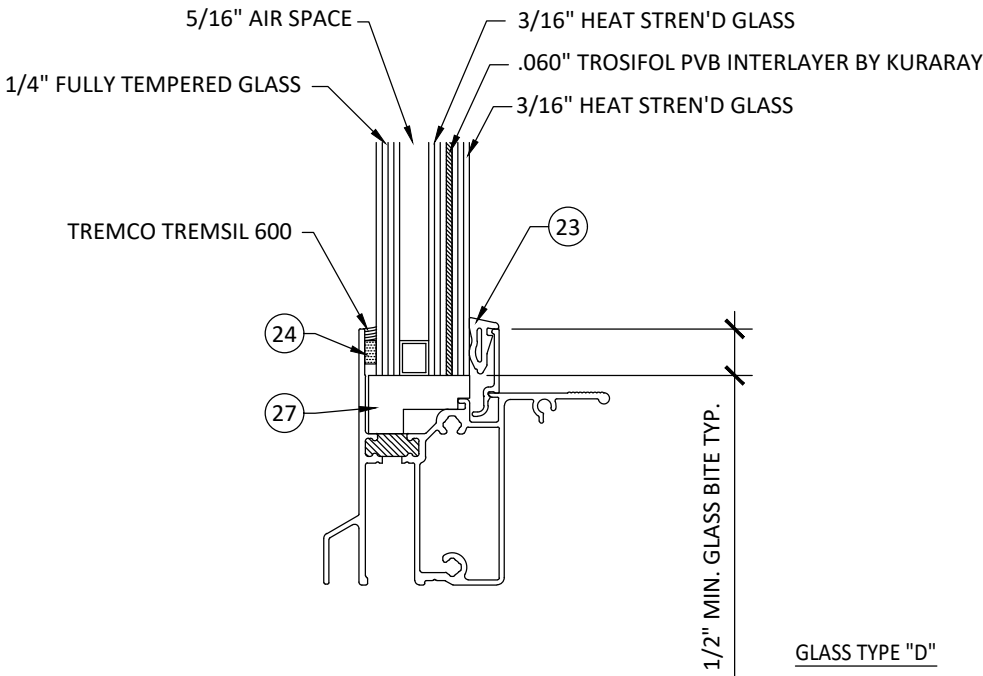
S.M.I. GLAZING DETAILS



GLASS TYPE "C"



1/2" MIN. GLASS BITE TYP.



GLASS TYPE "D"

- 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.

AIR SPACE CONSISTING OF :
- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.



YKK AP America, Inc.
1229 HWY 441 BYPASS
DUBLIN, GA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YVS 410 TUH SINGLE HUNG WINDOW (HVHZ) (IMPACT)

GLAZING DETAILS (S.M.I.)

PREPARED BY: BUILDING DROPS, INC.

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



REMARKS	BY	DATE
8TH FBC CODE CHANGE	OL	6.08.23

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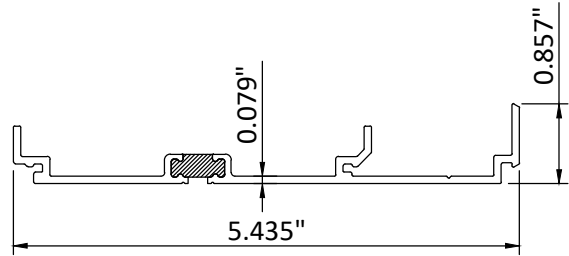
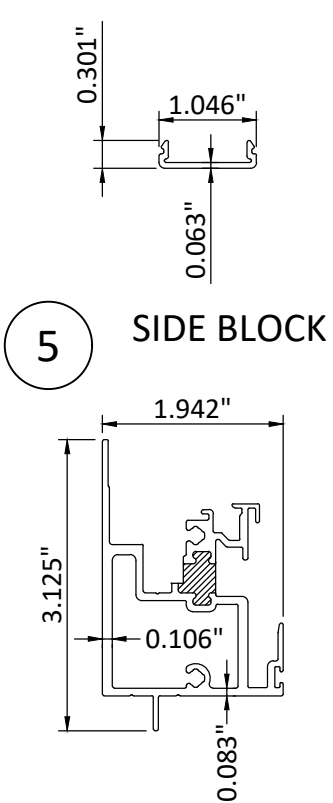
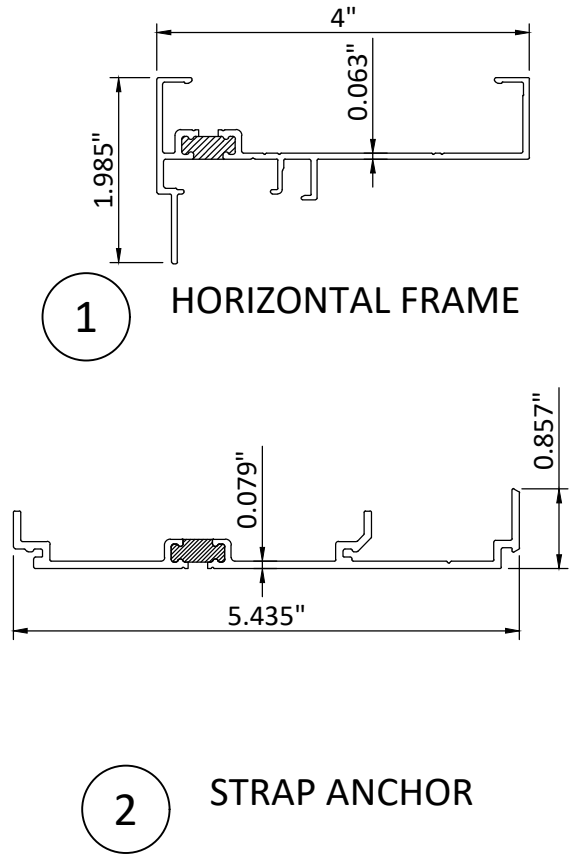
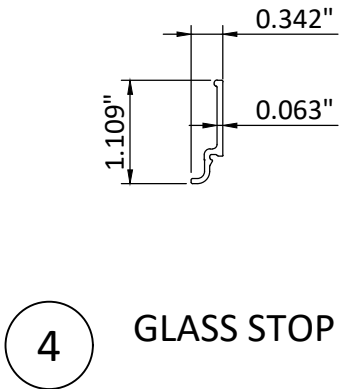
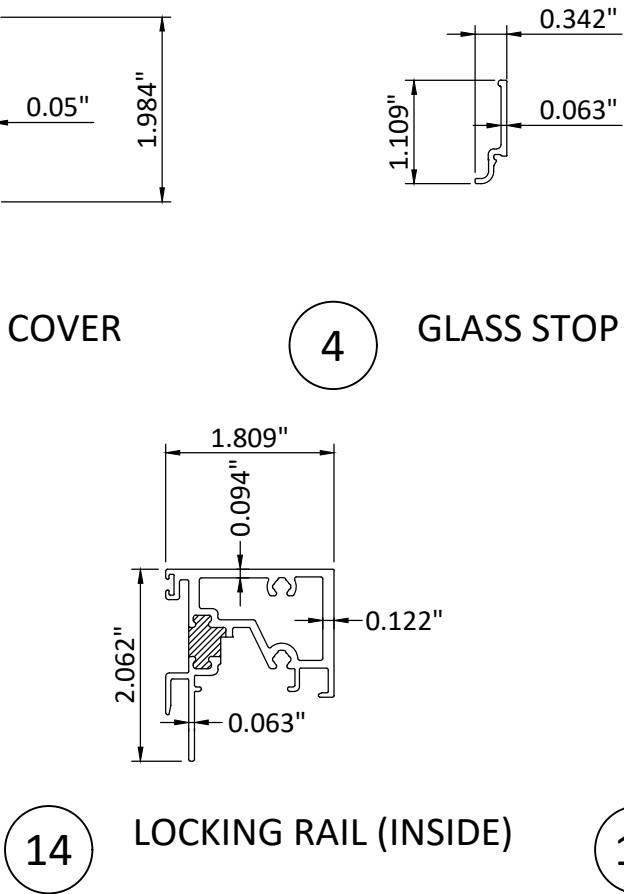
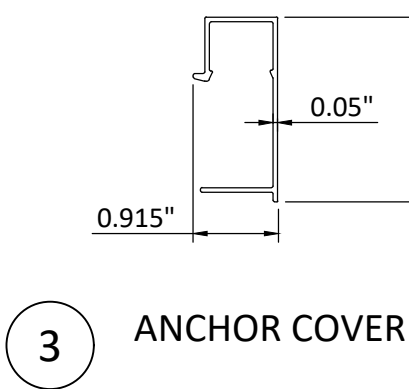
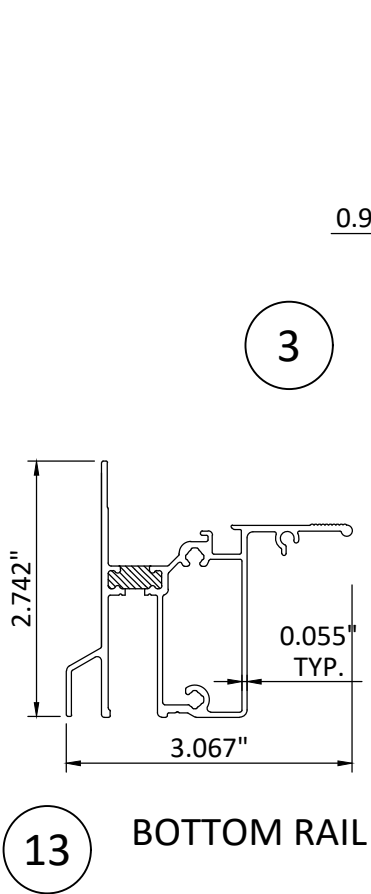
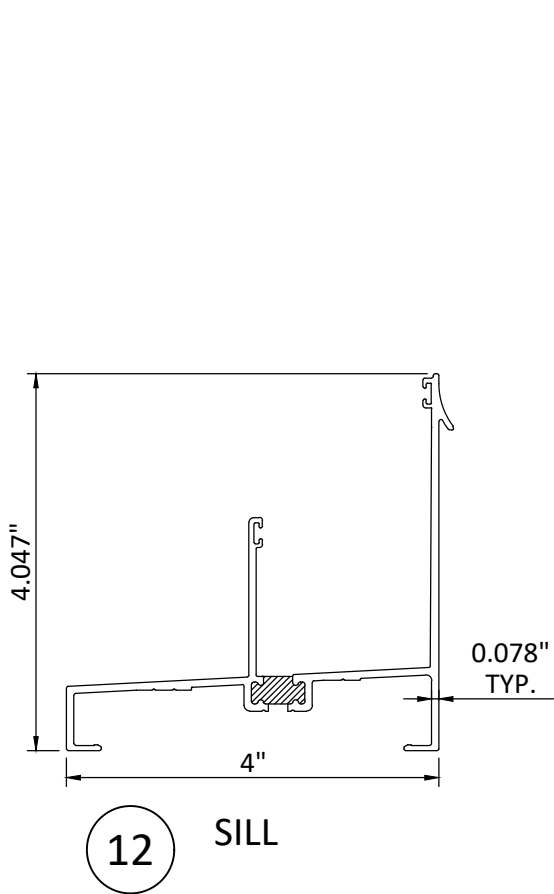


FL #:	FL12878
DATE:	06.11.15
DWG. BY:	LS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK061
SHEET:	8

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YVS 410 TU SINGLE HUNG BILL OF MATERIALS			
ITEM #	PART NUMBER	DESCRIPTION	MATERIAL
1	BE9-4701	HORIZONTAL FRAME	6063-T5
2	BE9-8567	STRAP ANCHOR	6063-T5
3	E9-8431	ANCHOR COVER	6063-T5
4	E9-4713	GLASS STOP	6063-T5
5	E3-1111	SIDE BLOCK	PVC (RIGID)
11	PC-1016SS	#10 X 1" PHSMS TYPE AB	STAINLESS STEEL
12	BE9-4717	SILL	6063-T5
13	BE9-4718	BOTTOM RAIL	6063-T5
14	BE9-4710	LOCKING RAIL (INSIDE)	6063-T5
15	BE9-4709	HORIZ MULLION/LOCKING RAIL	6063-T5
16	BE9-4706	JAMB FOR S.H. (ULTRALIFT)	6063-T5
17	BE9-4712	VERTICAL STILE	6063-T5
18	E1-1769	VENT STOPPER FOR TOP	6063-T5
19	PF-1008SS	#10-24 X 1/2" PHSMS TYPE F	STAINLESS STEEL
20	PF-0810SS	#8-32 X 5/8" PHSMS TYPE F	STAINLESS STEEL
21	E2-0666	AIR TIGHT PAD	POLYPROPYLENE
23	E2-0671	WEDGE GASKET	EPDM
24	E2-0670	EXTERIOR BACKER TAPE	EPDM
25	E3-1124	CORNER CAP FOR TOP	POLYACETAL
26	E1-1758	HEAD/SILL LOCK	6063-T5
27	E2-0661PC	SETTING BLOCK	EPDM-PC
28	E2-0062	WEATHERSEAL	POLYPROPYLENE
30	E3-1101	WEEP HOLE COVER	NYLON

YVS 410 TU SINGLE HUNG BILL OF MATERIALS			
ITEM #	PART NUMBER	DESCRIPTION	MATERIAL
31	5K-18622	SWEEP LOCK-RH	STAINLESS/DIE CAST/PA66
32	5K-18623	SWEEP LOCK-LH	STAINLESS/DIE CAST/PA66
33	E1-1774	KEEPER	STAINLESS STEEL
34	E1-1972	TWIST ANCHOR	12 GA. GALVANIZED STEEL
35	E1-1761	SWEEP LOCK	WHITE BRONZE
36	E1-1752	KEEPER	WHITE BRONZE
37	E2-0051	GASKET-AIRTIGHT	SANTOPRENE
38	E1-1949	END CAP	0.050 ALUMINUM SHEET
39	E1-1946	END DAM	0.050 ALUMINUM SHEET
40	E9-4556	TRIM - 1" x 1 1/4"	6063-T5
41	E9-4557	CLIP - 1" x 1 1/4"	6063-T5
42	E9-8537	CLIP - 1" x 1 11/16"	6063-T5
43	E9-8538	TRIM - 1" x 1 11/16"	6063-T5
44	E9-4031	CLIP - 1" x 2"	6063-T5
45	E9-4032	TRIM - 1" x 2"	6063-T5
46	E9-8562	CLIP - 1 1/8" x 3 1/2"	6063-T5
47	E9-8563	TRIM - 1 1/8" x 3 1/2"	6063-T5
48	E1-1922	ANCHOR CLIP	6063-T5
49	E9-4035	ANCHOR CLIP TRIM	6063-T5
54	E2-0668	GLAZING SPACER	EPDM





Quality
inspires™

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(HVHZ) (IMPACT)

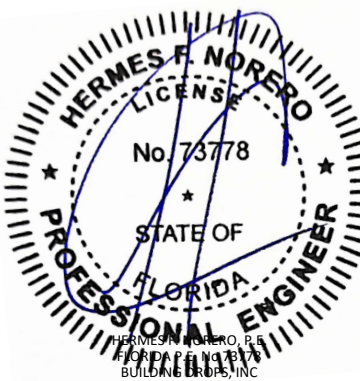
COMPONENTS & BILL OF MATERIALS

PREPARED BY:
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BUILDING DROPS

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL12878

DATE: **06.11.15**

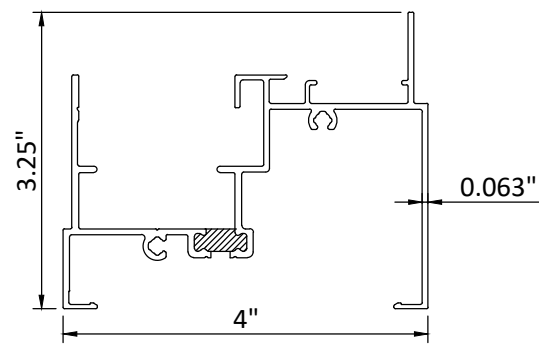
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SCALE: **NTS**

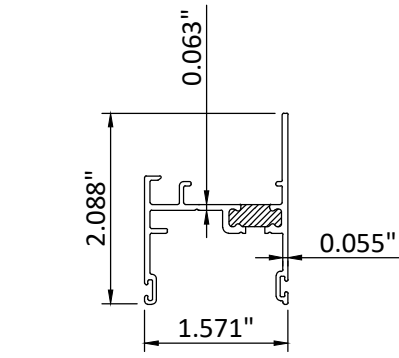
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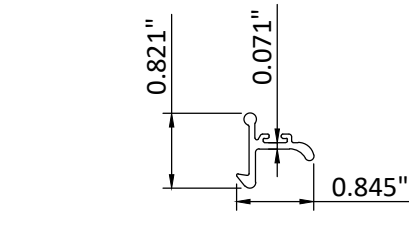
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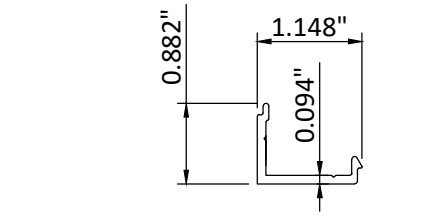
16 JAMB - SINGLE HUNG



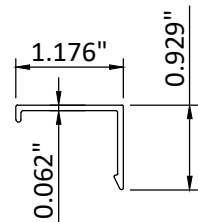
17 VERTICAL STILE



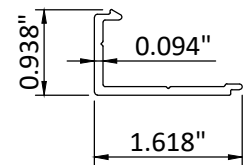
26 HEAD/SILL LOCK



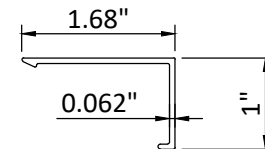
40 CLIP - 1" X 1-1/4"



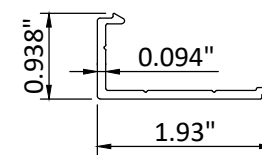
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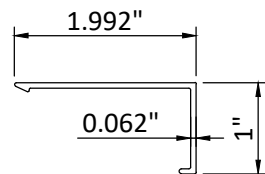
42 CLIP - 1" X 1-11/16"



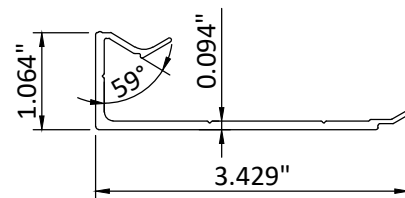
43 TRIM - 1" X 1-11/16"



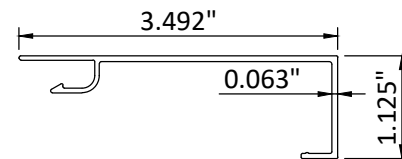
44 CLIP - 1" X 2"



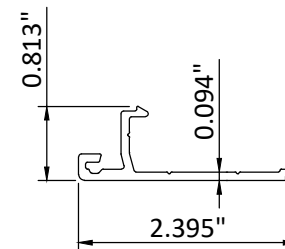
45 TRIM - 1" X 2"



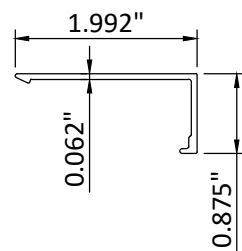
46 CLIP - 1-1/8" X 3-1/2"



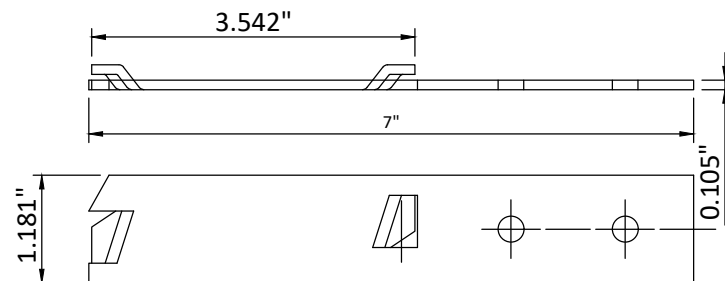
47 TRIM - 1-1/8" X 3-1/2"



48 ANCHOR CLIP



49 ANCHOR CLIP TRIM



34 TWIST ANCHOR



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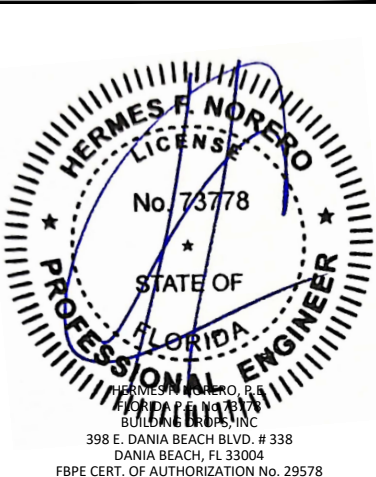
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