

REILLY ARCHITECTURAL

SERIES 3170 OUTSWING CASEMENT WINDOW

(HVHZ)(IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE 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 FRAMING, AND METAL FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: MAHOGANY
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAILS.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 5.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/2 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

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DESIGN PRESSURE RATING (PSF)				
WIDTH (IN.)	HEIGHT (IN.)	CONFIGURATION	DESIGN PRESSURE	MISSILE IMPACT RATING
79-1/4"	96"	XX	+70/-75	LARGE & SMALL MISSILE IMPACT
41-1/4"	96"	X	+70/-75	
79-1/4"	133-1/4"	O/XX	+70/-75	

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SERIES 3170 OUTSWING
CASEMENT WINDOW
(HVHZ)(IMPACT)
GENERAL NOTES &
INSTALLATION NOTES

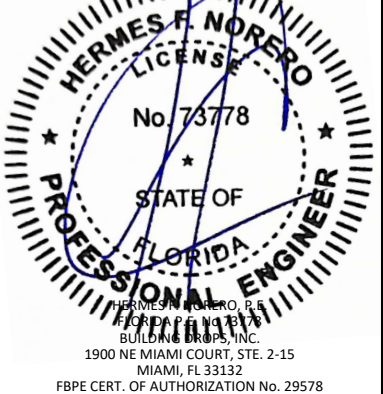
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REMARKS	BY	DATE

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Reason: I am approving this document
Date: 2026.04.14 11:11:09 -04'00'



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DATE: **03.05.2026**

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SCALE: **NTS**

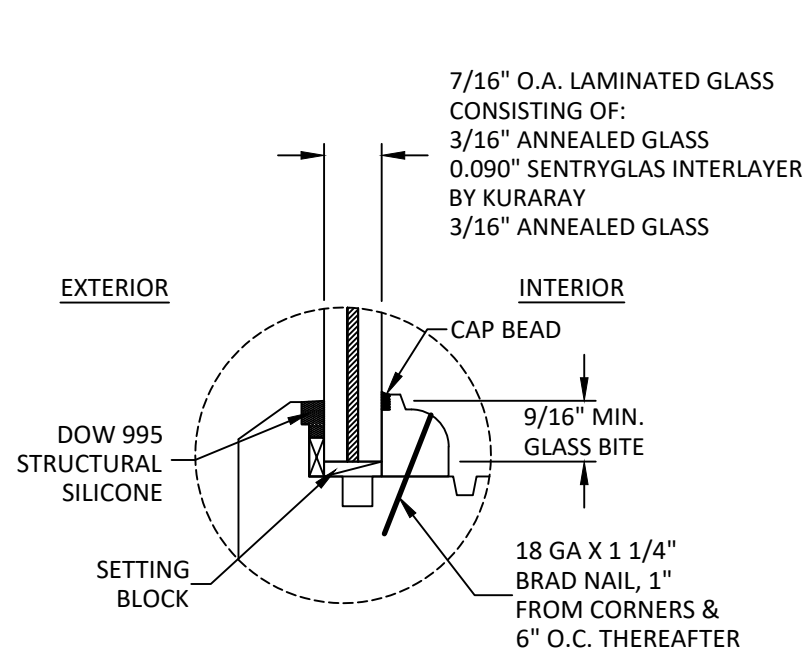
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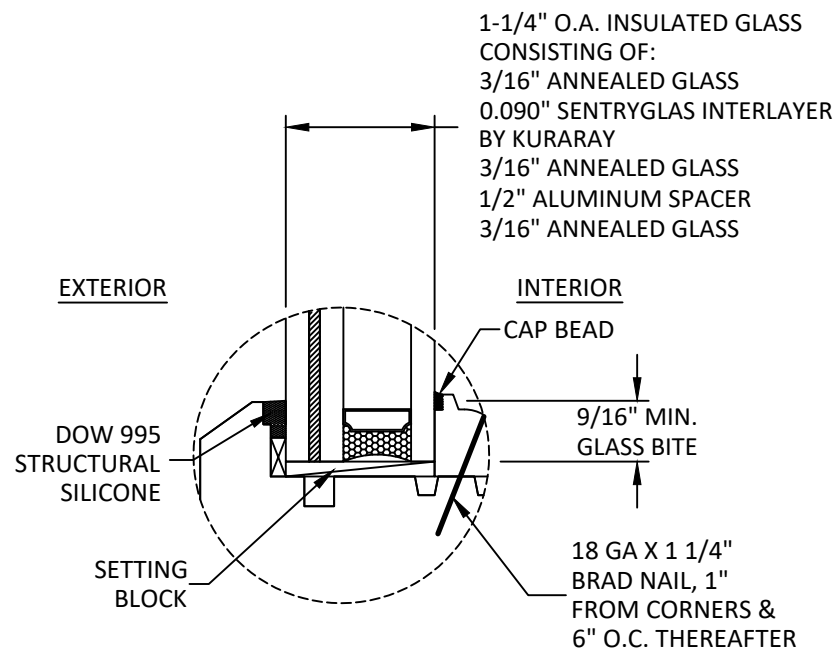
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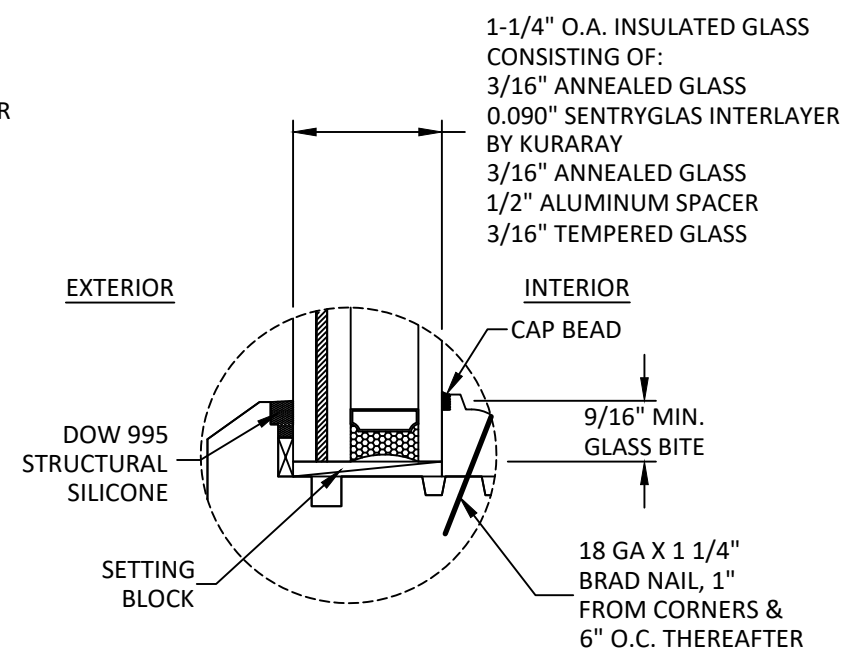
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GLAZING DETAIL 1



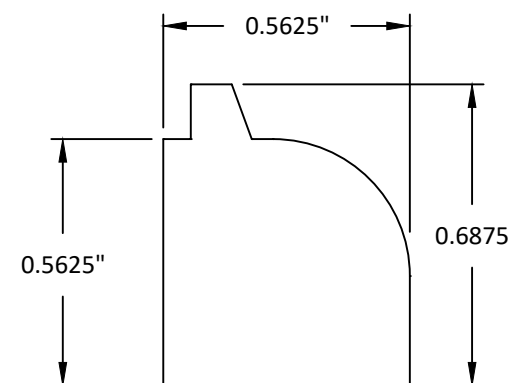
GLAZING DETAIL 2



GLAZING DETAIL 3

GLAZING NOTES:

1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC, TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.
5. ALTERNATE GLAZING BEADS QUALIFIED AS LONG AS THE MOMENT OF INERTIA VALUE OF THE DESIRED BEAD IS EQUAL TO OR GREATER THAN THE TESTED BEAD SHOWN ON THE RIGHT.



MOMENT OF INERTIA ABOUT THE Y-AXIS = 0.0076 IN⁴

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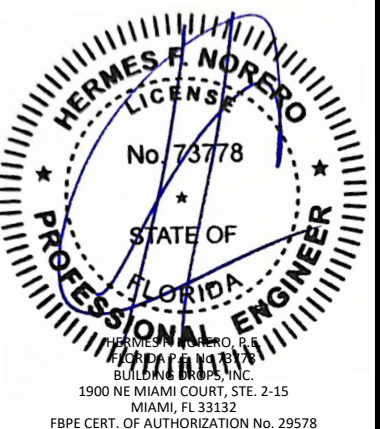
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GLAZING DETAILS

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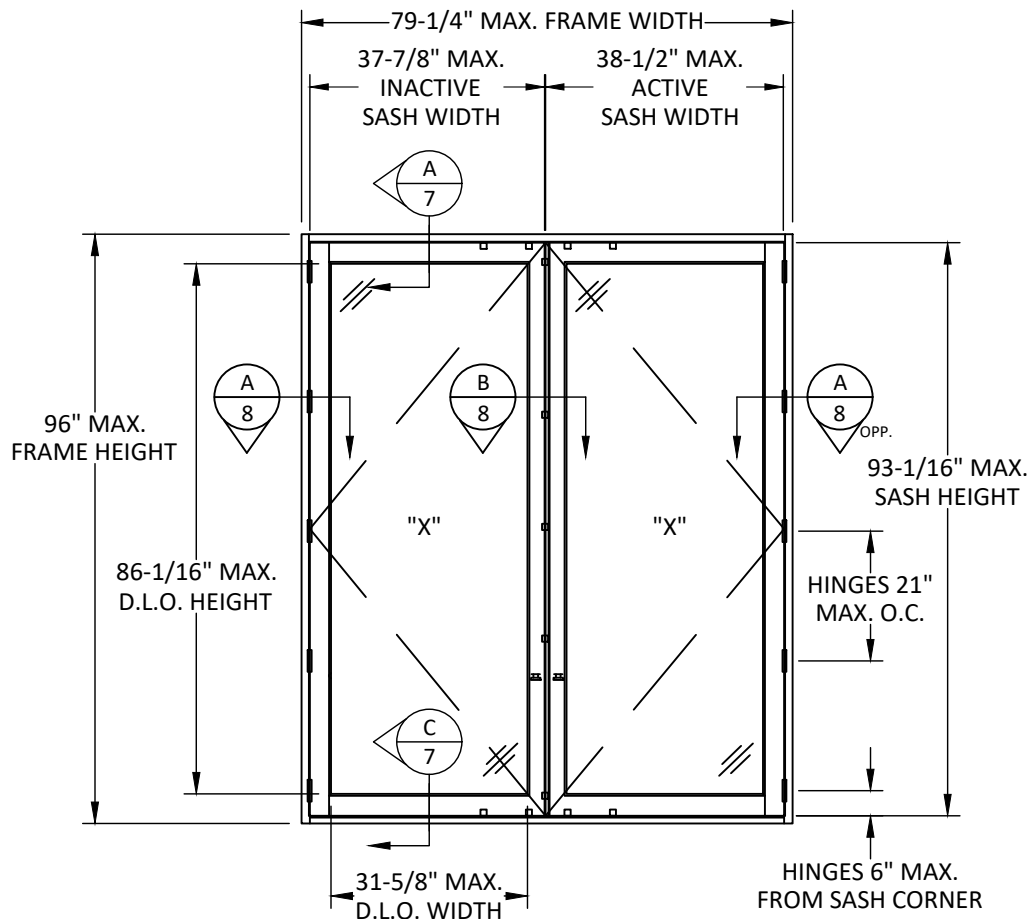
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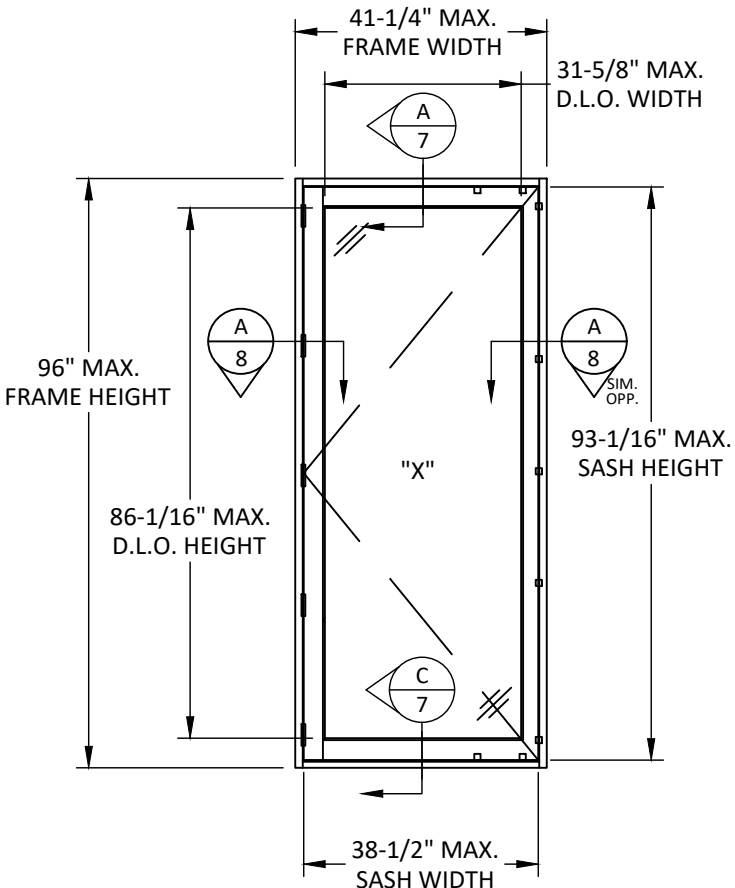
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ELEVATION
FRENCH CASEMENT



ELEVATION
SINGLE CASEMENT

NOTE:
• HARDWARE - FOURTEEN (14) CAM LOCKS TOTAL FOR FRENCH CASEMENTS AND TEN (10) CAM LOCKS TOTAL FOR SINGLE CASEMENTS.

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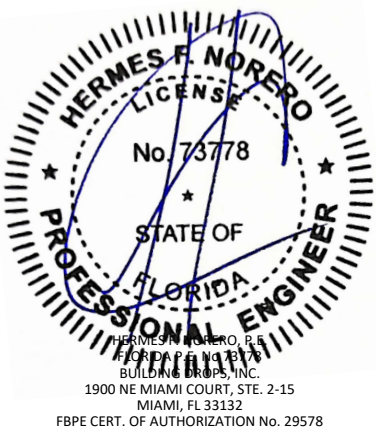
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FBPE CERT. OF AUTHORIZATION No. 29578

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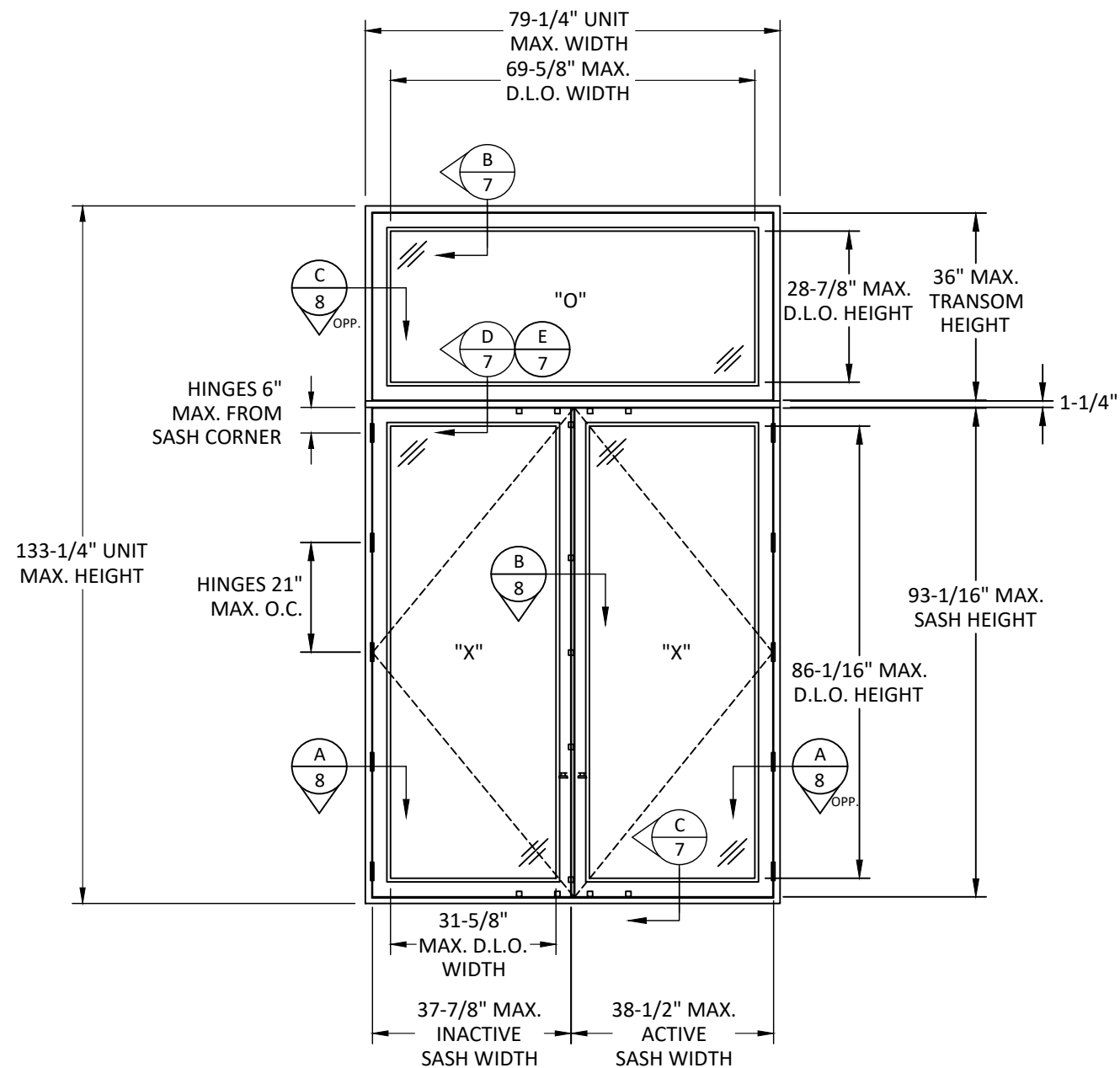
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ELEVATION
FRENCH CASEMENT WITH TRANSOM

HARDWARE NOTES:
1) EACH CASEMENT SASH SHALL UTILIZE BRASS OR STAINLESS STEEL BUTT HINGES ACCORDING TO MAX O.C. SPACING DESIGNATED ABOVE
2) CASEMENT SASHES SHALL UTILIZE SIEGENIA MULTIPOINT LOCKING HARDWARE
3) SEE SHEET 6 FOR LOCK QUANTITY REQUIREMENTS

HINGE QUANTITY REQUIREMENTS	
FRAME HEIGHT	QTY.
$FH > 75\frac{9}{32}"$	5
$75\frac{9}{32}" \geq FH > 54\frac{9}{16}"$	4
$54\frac{9}{16}" \geq FH > 33\frac{27}{32}"$	3
$33\frac{27}{32}" \geq FH$	2

QUALIFIED CONFIGURATIONS NOTES:

1. SHOWN CONFIGURATIONS ARE QUALIFIED BASED ON TESTING SUCH THAT THEY DO NOT EXCEED THE MAXIMUM D.L.O. OR SASH DIMENSIONS SHOWN ON ELEVATION.
2. SEE DETAILS "D" AND "E" ON SHEET 8 FOR VERTICAL MULLION DETAILS APPLICABLE TO QUALIFIED CONFIGURATIONS.
3. OPERABLE WINDOWS IN THE MULLED CONFIGURATIONS SHOWN ABOVE MAY BE REPLACED WITH FIXED WINDOWS.

QUALIFIED
CONFIGURATIONS

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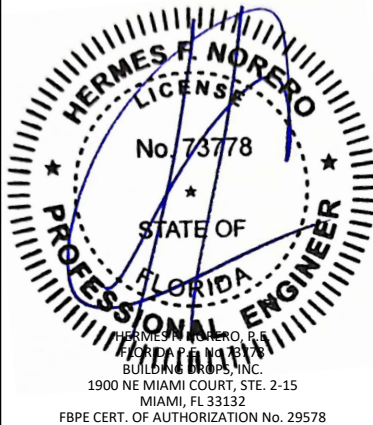
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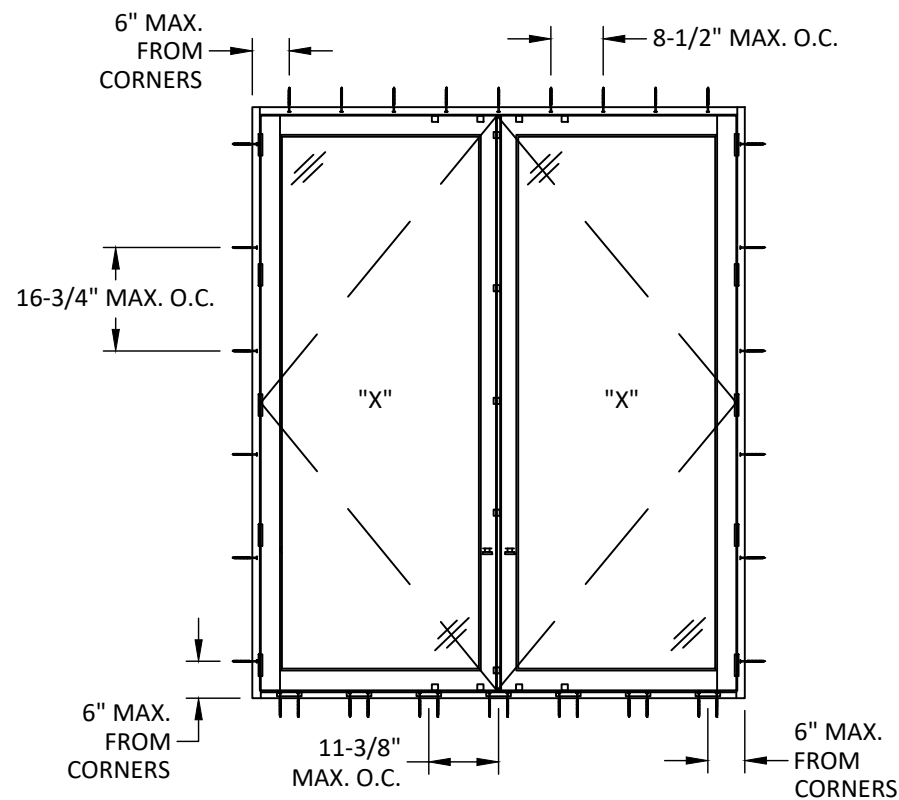
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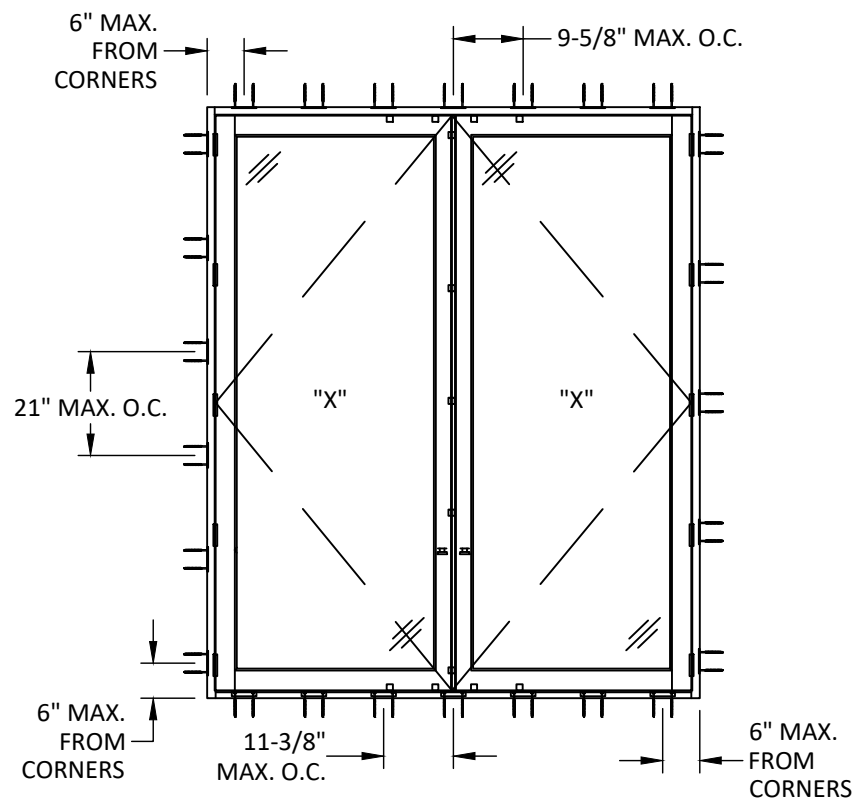
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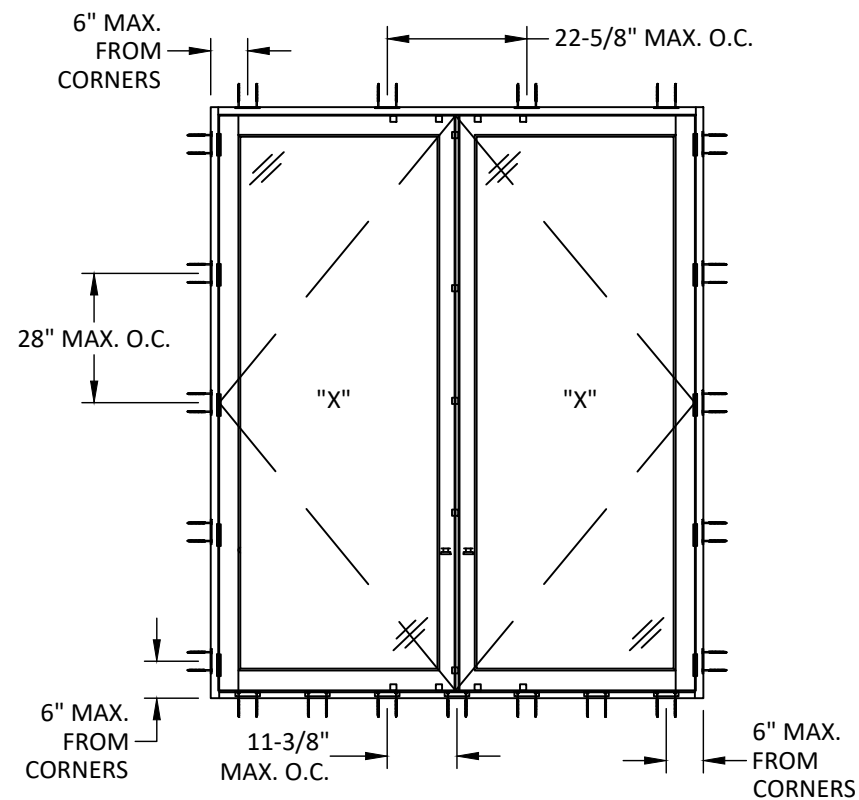
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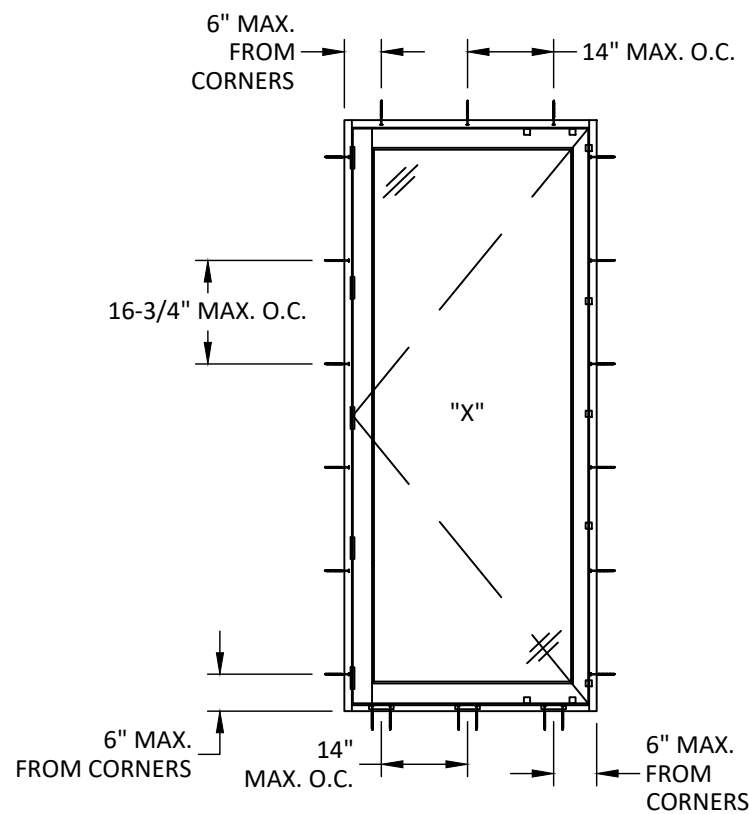
ANCHOR LAYOUT
THROUGH FRAME - HEAD & JAMBS
ANGLE CLIP - SILL



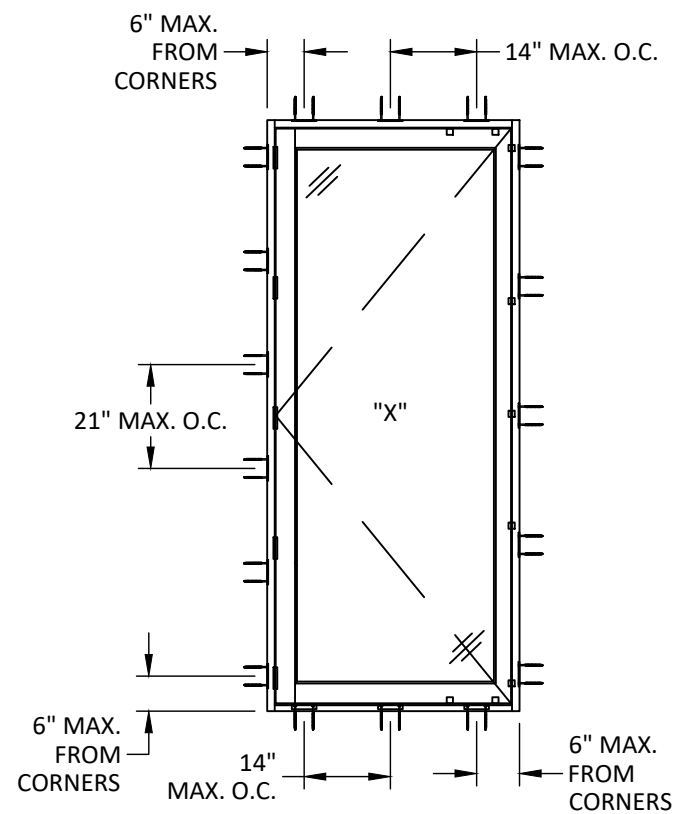
ANCHOR LAYOUT
FLAT CLIP - HEAD & JAMBS
ANGLE CLIP - SILL



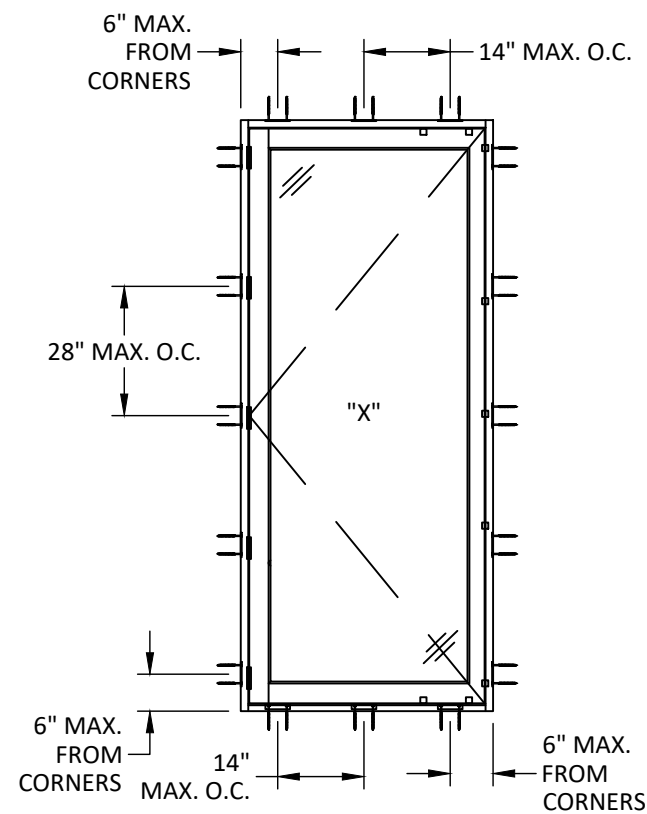
ANCHOR LAYOUT
ANGLE CLIP - HEAD & JAMBS
ANGLE CLIP - SILL



ANCHOR LAYOUT
THROUGH FRAME - HEAD & JAMBS
ANGLE CLIP - SILL



ANCHOR LAYOUT
FLAT CLIP - HEAD & JAMBS
ANGLE CLIP - SILL



ANCHOR LAYOUT
ANGLE CLIP - HEAD & JAMBS
ANGLE CLIP - SILL

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ANCHOR LAYOUTS

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CHK. BY:
HFN

SCALE: **NTS**

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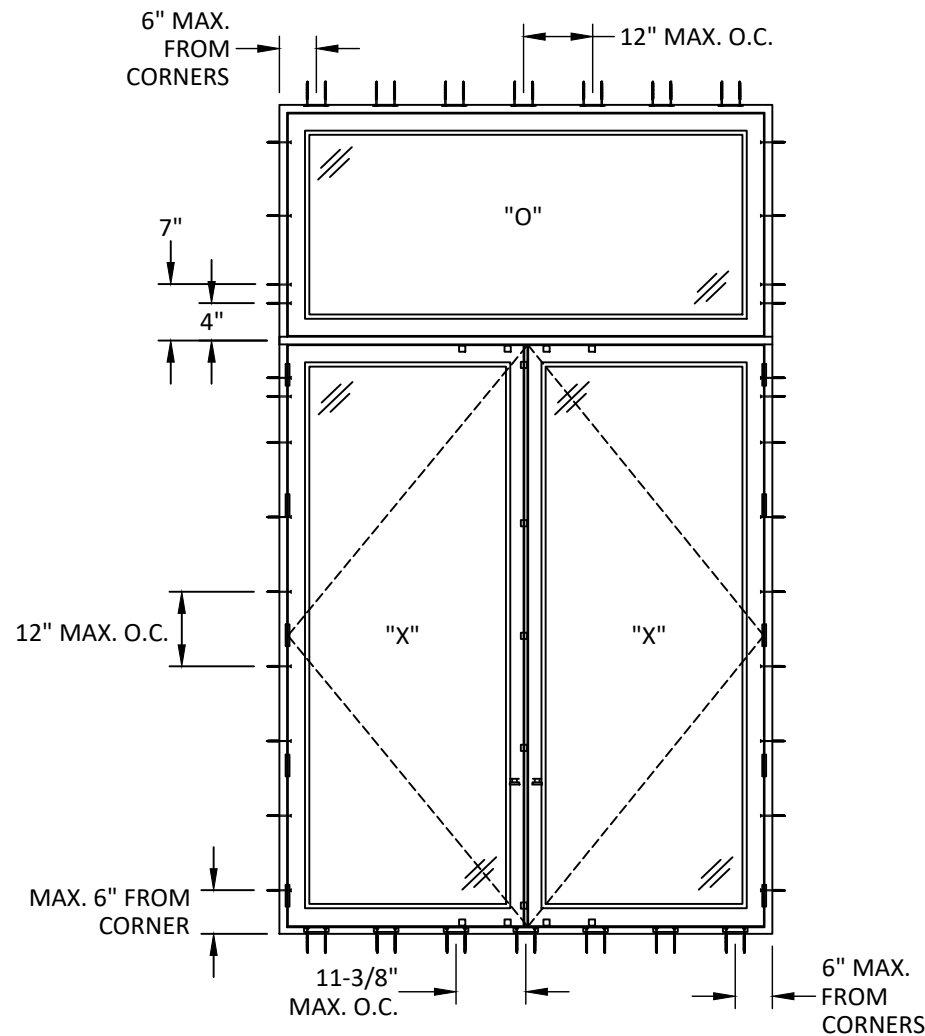
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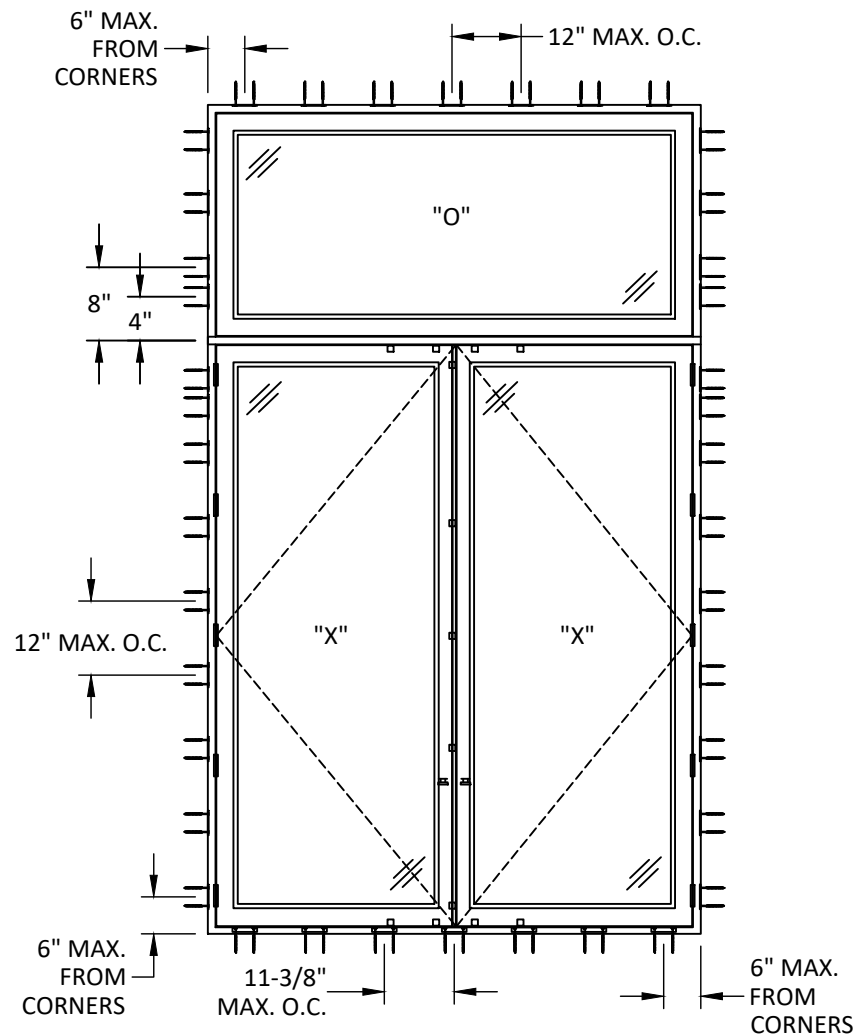
LOCK REQUIREMENTS:

- 1) SPACING OF PRIMARY SASH LOCK LOCATIONS AT THE LOCK STILE SHALL NOT EXCEED THE MAXIMUM TESTED SPACING OF 23"
- 2) QUANTITY REQUIRED AT HEAD AND SILL STILES APPLIES TO BOTH PRIMARY AND SECONDARY SASHES ON TWIN UNITS



ANCHOR LAYOUT

FLAT CLIP OR ANGLE CLIP - HEAD
THROUGH FRAME - JAMBS
ANGLE CLIP - SILL



ANCHOR LAYOUT

FLAT CLIP OR ANGLE CLIP - HEAD & JAMBS
ANGLE CLIP - SILL

MINIMUM REQUIRED LOCK LOCATIONS

SASH SIZE		QUANTITY AT LOCK JAMB	QUANTITY AT HEAD/SILL
HEIGHT	WIDTH		
96.125	39.75	5	2
96.125	35	5	2
96.125	30	4	2
96.125	25	4	2
96.125	20	3	2
90.00	39.75	5	2
90.00	35	5	2
90.00	30	4	2
90.00	25	3	2
90.00	20	3	1
85.00	39.75	5	2
85.00	35	4	2
85.00	30	4	2
85.00	25	3	2
85.00	20	3	1
80.00	39.75	5	2
80.00	35	4	2
80.00	30	4	2
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80.00	20	3	1
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75.00	35	4	2
75.00	30	3	2
75.00	25	3	1
75.00	20	2	1
70.00	39.75	4	2
70.00	35	4	2
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70.00	20	2	1
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65.00	35	3	2
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65.00	25	3	1
65.00	20	2	1
60.00	39.75	4	2
60.00	35	3	2
60.00	30	3	1
60.00	25	2	1
60.00	20	2	1
55.00	39.75	3	2
55.00	35	3	2
55.00	30	3	1
55.00	25	2	1
55.00	20	2	1

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ANCHOR LAYOUTS &
LOCK QUANTITY TABLE

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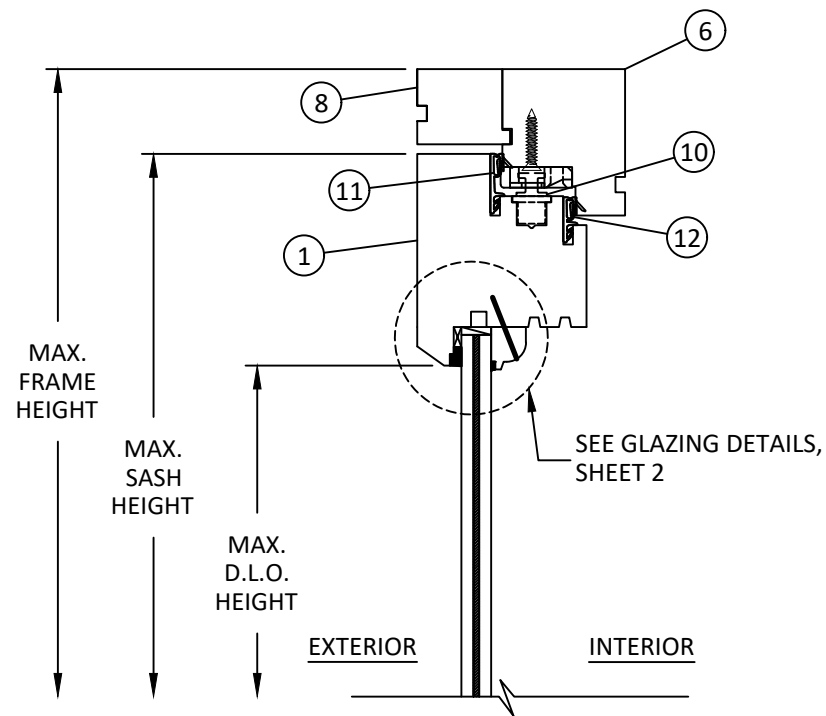
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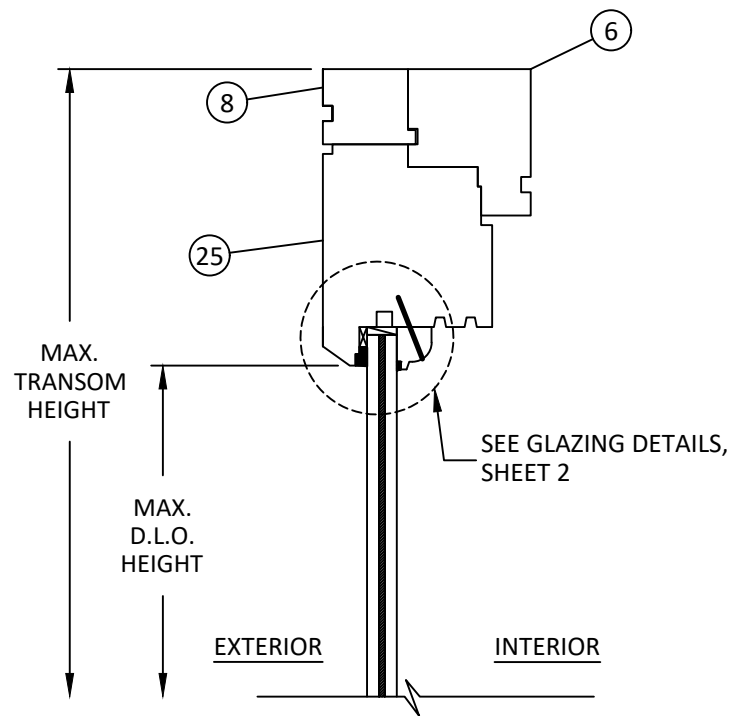
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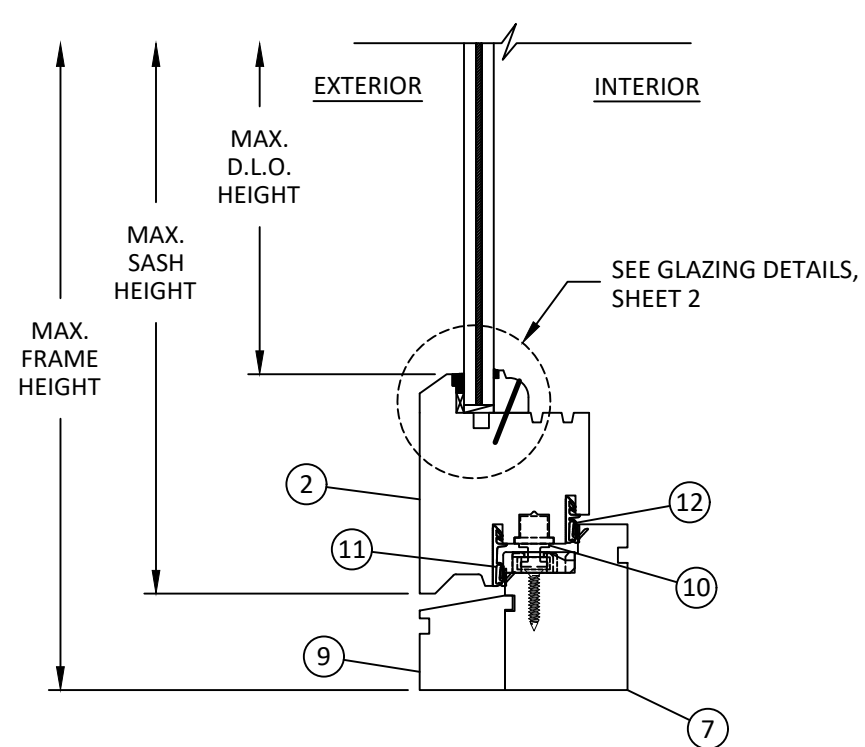
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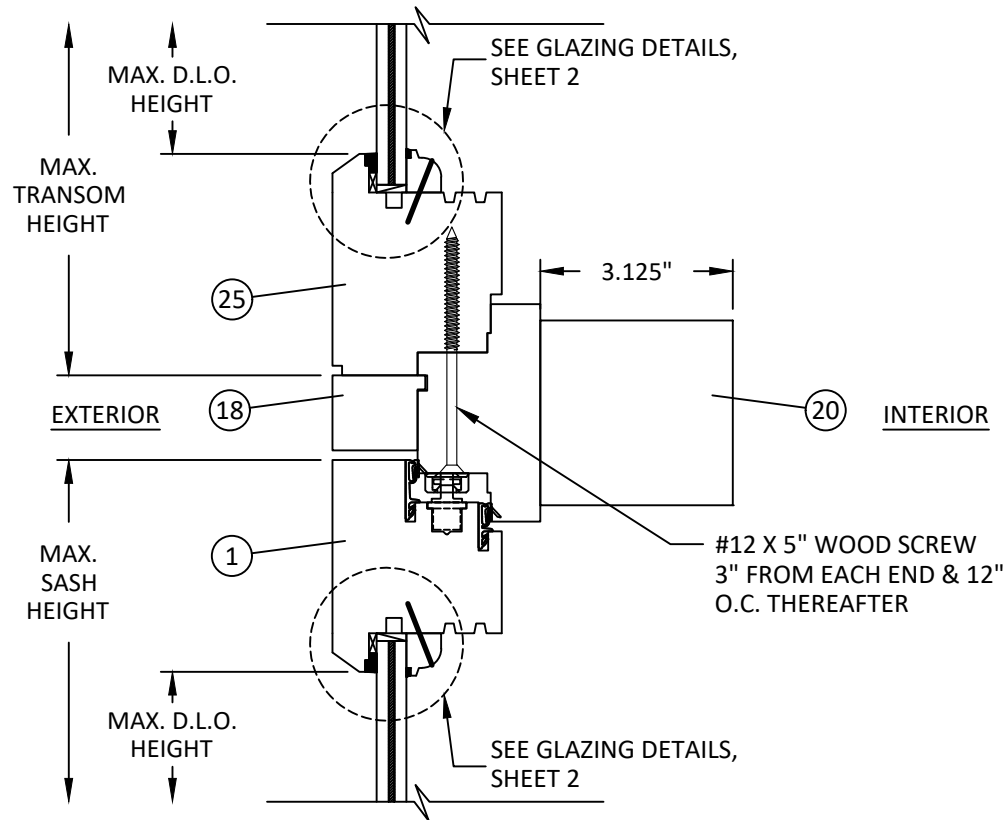
A
7 VERTICAL SECTION
CASEMENT
HEAD



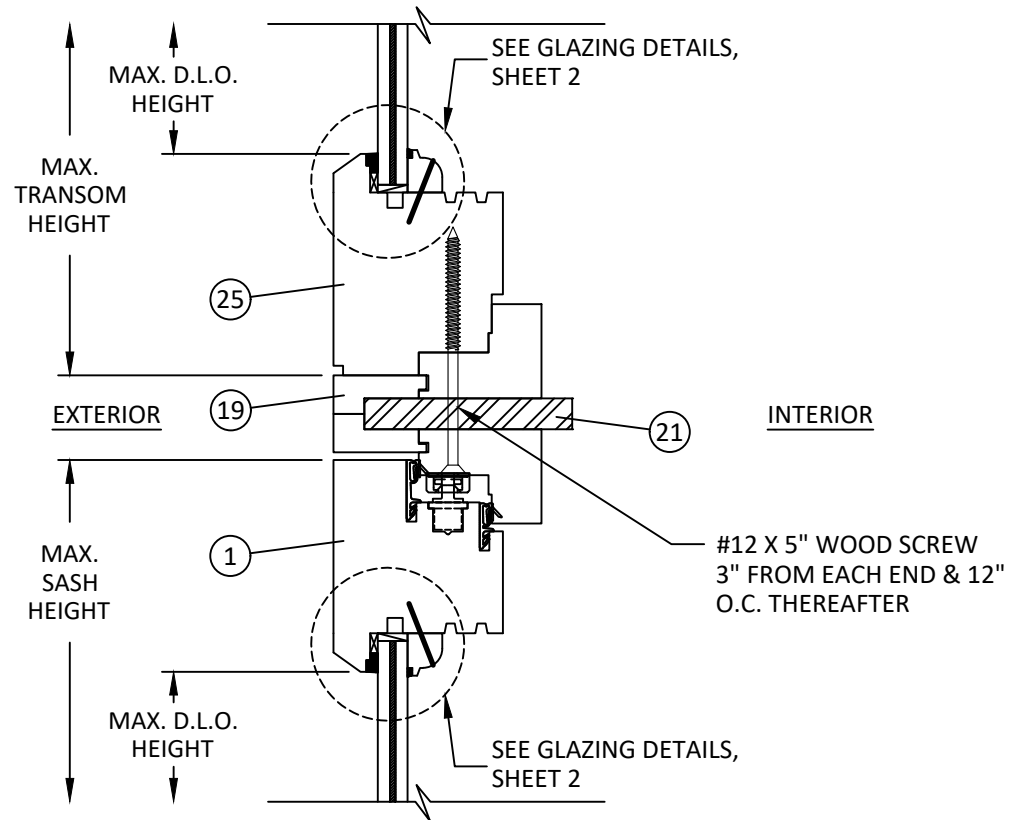
B
7 VERTICAL SECTION
TRANSOM
HEAD



C
7 VERTICAL SECTION
CASEMENT
SILL



D
7 VERTICAL SECTION
HORIZONTAL MULLION (WOOD)



E
7 VERTICAL SECTION
HORIZONTAL MULLION (WOOD W/ STEEL)

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VERTICAL SECTIONS

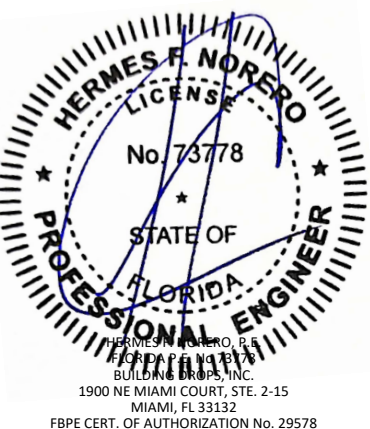
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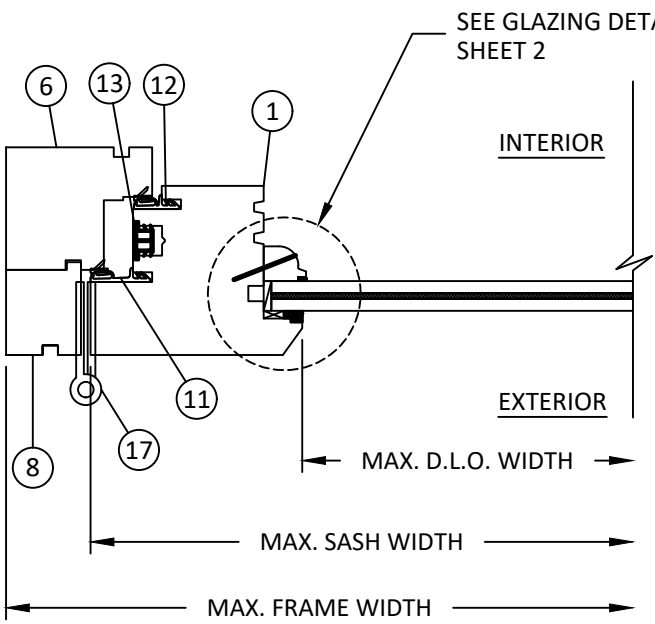
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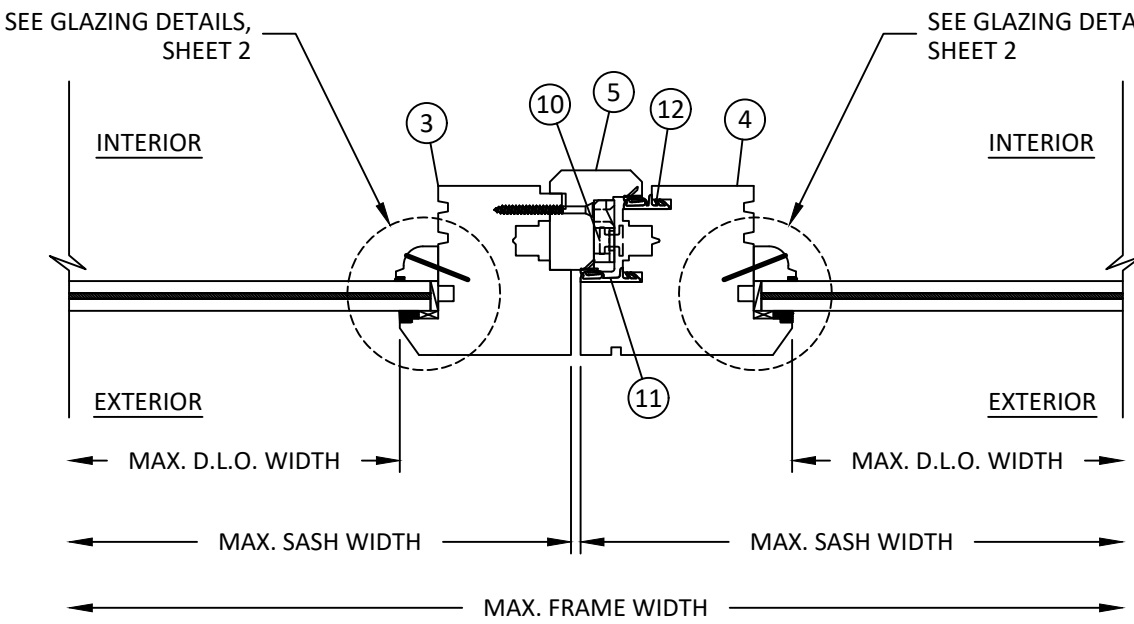
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OF 11

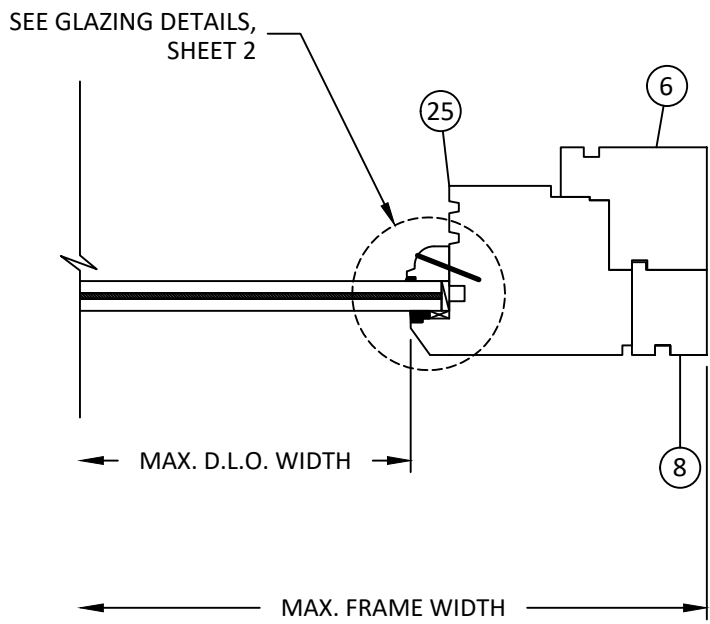
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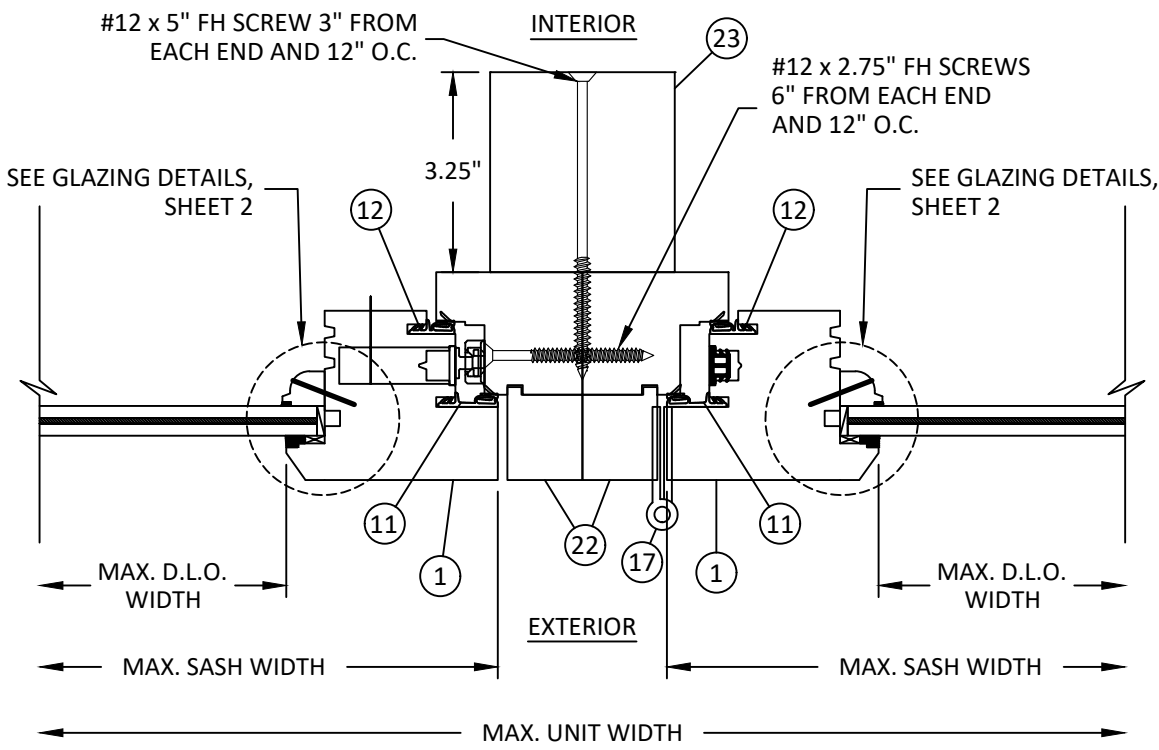
A HORIZONTAL SECTION
8 CASEMENT JAMB



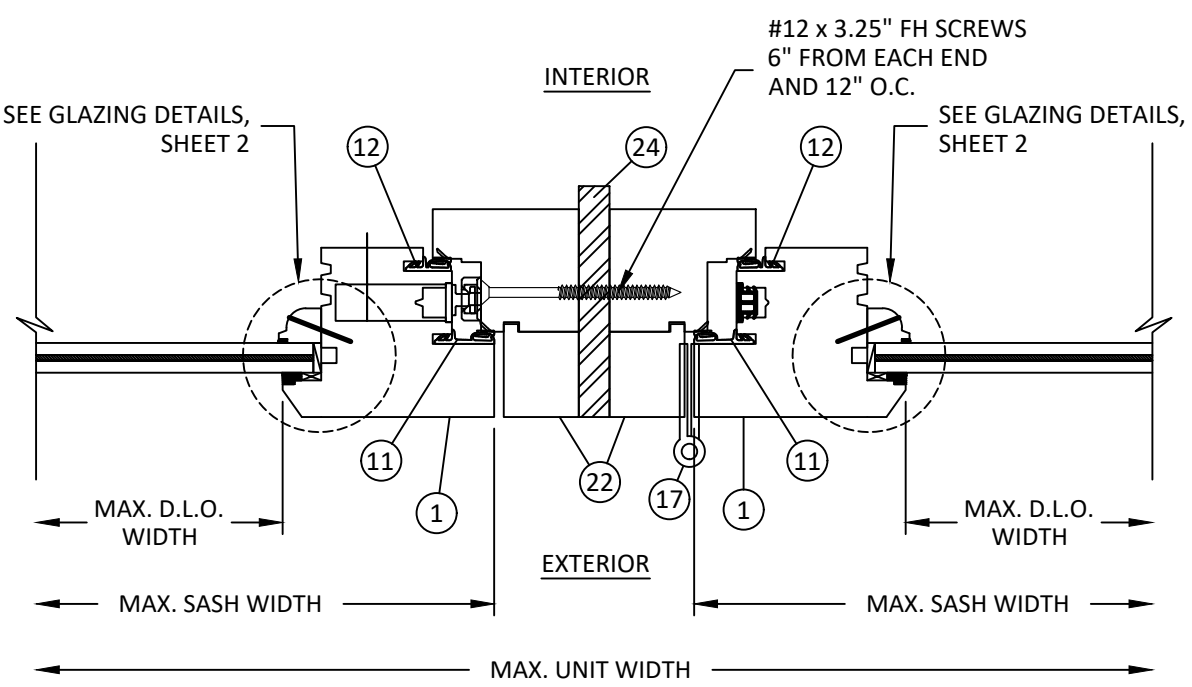
B HORIZONTAL SECTION
8 FRENCH CASEMENT MEETING STILE



C HORIZONTAL SECTION
8 TRANSOM JAMB



D HORIZONTAL SECTION
8 VERTICAL MULLION (WOOD)



E HORIZONTAL SECTION
8 VERTICAL MULLION (WOOD W/ STEEL)

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TITLE: SERIES 3170 OUTSWING CASEMENT WINDOW (HVHZ)(IMPACT) HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
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MIAMI, FL 33132
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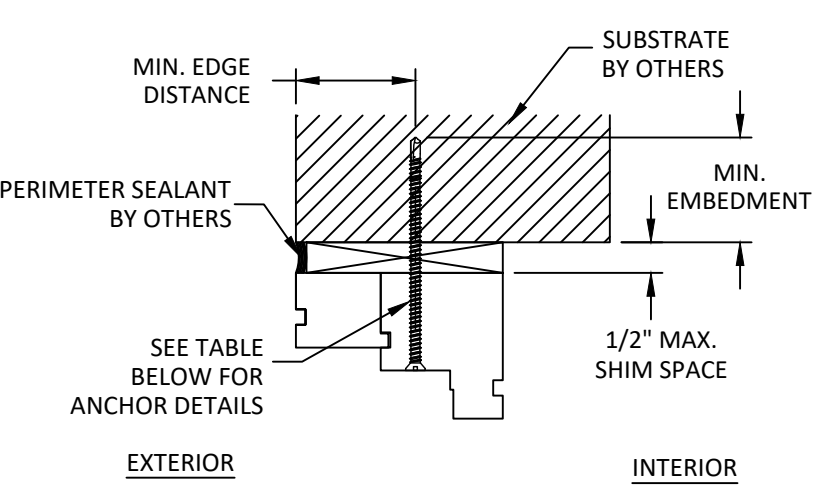
REMARKS	BY	DATE

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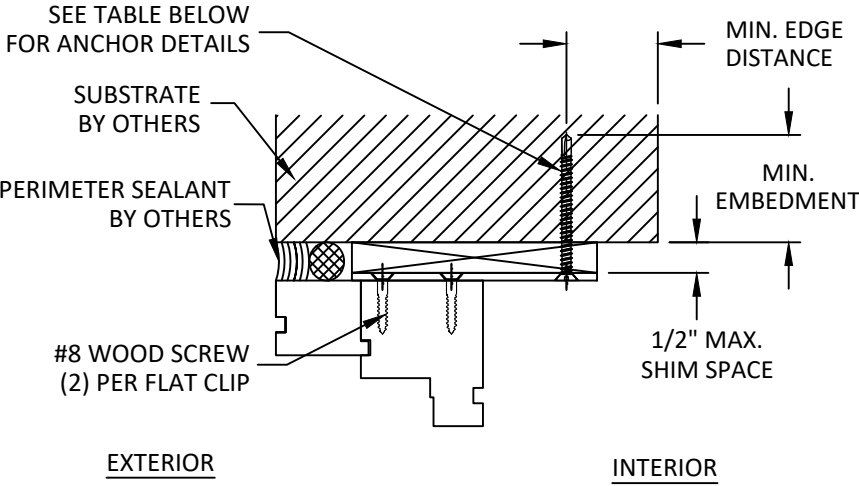


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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	RWD031
SHEET:	8

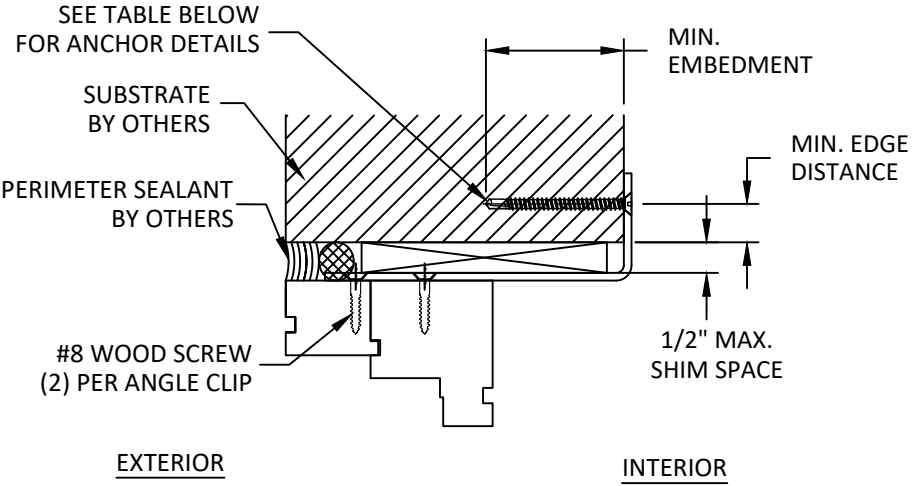
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A
9 ANCHOR DETAIL
HEAD - THROUGH FRAME
JAMB SIMILAR



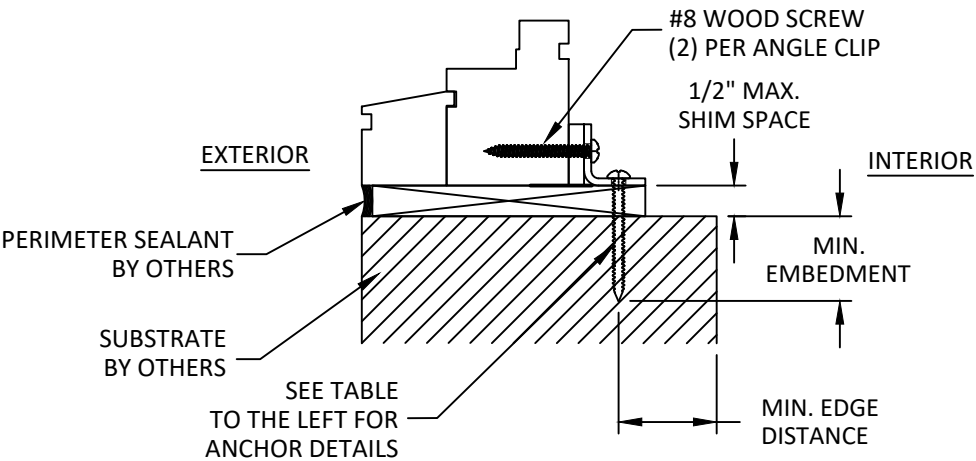
B
9 ANCHOR DETAIL
HEAD - FLAT CLIP
JAMB SIMILAR



C
9 ANCHOR DETAIL
HEAD - ANGLE CLIP
JAMB SIMILAR

ANCHOR SCHEDULE					
METHOD	QUANTITY PER LOCATION	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	1	WOOD: MIN. SG = 0.55	#12 WOOD SCREW	1.50"	0.75"
		METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#12 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"
		CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.25"	2.50"
		MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	2.50"
FLAT CLIP/ SILL ANGLE CLIP	2	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.50"	0.75"
		METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#10 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"
		CONCRETE: f'c=3000PSI	3/16" ITW TAPCON	1.00"	2.00"
		MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1.00"	2.00"
ANGLE CLIP	2	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.50"	0.75"
		METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#10 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"

NOTE: TRANSOM CAN ONLY BE INSTALLED USING FLAT CLIP INSTALLATION OR ANGLE CLIP INSTALLATION.



D
9 ANCHOR DETAIL
SILL - ANGLE CLIP

NOTE: SILL USES ITS OWN ANGLE CLIP REGARDLESS OF INSTALLATION METHOD AT THE HEAD/JAMBS.

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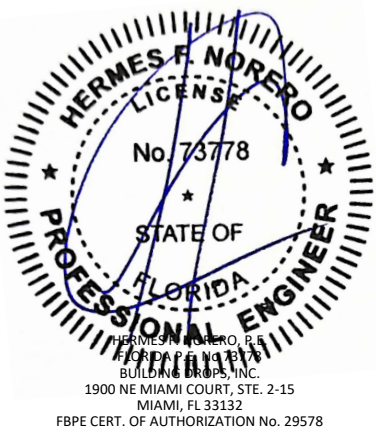
TITLE: SERIES 3170 OUTSWING
CASEMENT WINDOW
(HVHZ)(IMPACT)
ANCHOR DETAILS &
ANCHOR SCHEDULE

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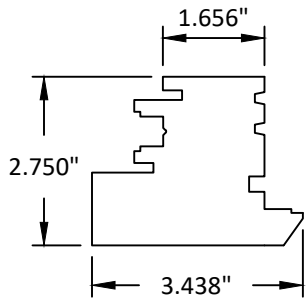
REMARKS	BY	DATE

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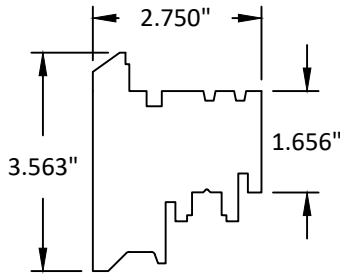


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DB	HFN
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SHEET:	9

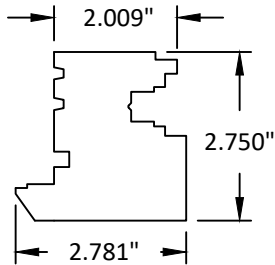
BILL OF MATERIALS			
ITEM	DESCRIPTION	MATERIAL	MANUFACTURER
1	STILE/TOP RAIL	MAHOGANY	REILLY
2	BOTTOM RAIL	MAHOGANY	REILLY
3	MEETING STILE	MAHOGANY	REILLY
4	MEETING STILE	MAHOGANY	REILLY
5	ASTRAGAL	MAHOGANY	REILLY
6	JAMB/HEAD	MAHOGANY	REILLY
7	SILL	MAHOGANY	REILLY
8	JAMB/HEAD EXTENSION	MAHOGANY	REILLY
9	SILL EXTENSION	MAHOGANY	REILLY
10	MULTI-POINT LOCK	STEEL	VARIES
11	WEATHERSTRIP	SILICONE	DEVENTER
12	WEATHERSTRIP	SILICONE	DEVENTER
13	WEATHERSTRIP	SILICONE	DEVENTER
14	FLAT CLIP	ALUMINUM	VARIES
15	ANGLE CLIP	304 S.S.	VARIES
16	SILL ANGLE CLIP	304 S.S.	VARIES
17	HINGE	BRASS	REILLY
18	HORIZONTAL MULLION	MAHOGANY	REILLY
19	HORIZONTAL MULLION	MAHOGANY	REILLY
20	HORIZONTAL MULLION STIFFENER	MAHOGANY	REILLY
21	HORIZONTAL MULLION STIFFENER	STEEL	VARIES
22	VERTICAL MULLION	MAHOGANY	REILLY
23	VERTICAL MULLION STIFFENER	MAHOGANY	REILLY
24	VERTICAL MULLION STIFFENER	STEEL	VARIES
25	TRANSOM STILE/RAIL	MAHOGANY	REILLY



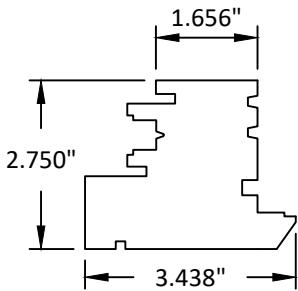
1 STILE/TOP RAIL
MAHOGANY



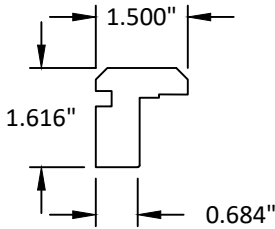
2 BOTTOM RAIL
MAHOGANY



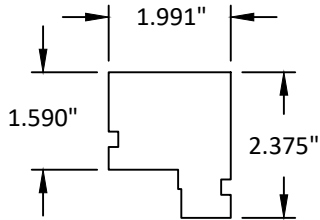
3 MEETING STILE
MAHOGANY



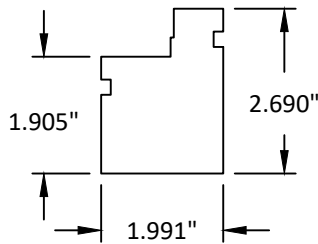
4 MEETING STILE
MAHOGANY



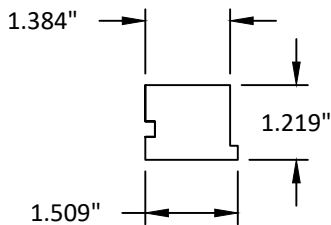
5 ASTRAGAL
MAHOGANY



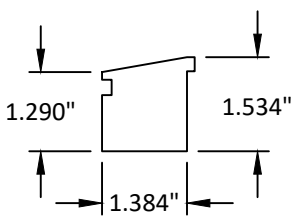
6 JAMB/HEAD
MAHOGANY



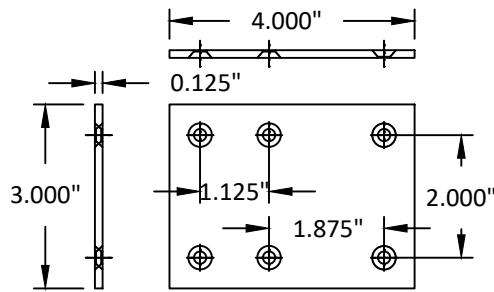
7 SILL
MAHOGANY



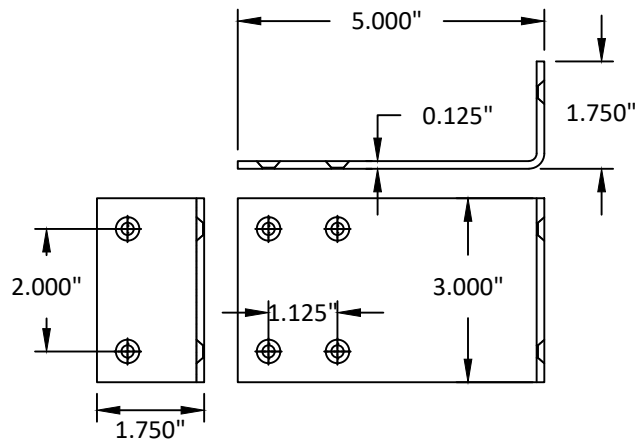
8 JAMB/HEAD EXTENSION
MAHOGANY



9 SILL EXTENSION
MAHOGANY



14 FLAT CLIP
ALUMINUM



15 ANGLE CLIP
304 STAINLESS STEEL

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EMAIL: WWW.REILLYARCH.COM

TITLE:
SERIES 3170 OUTSWING
CASEMENT WINDOW
(HVHZ)(IMPACT)
BILL OF MATERIALS &
COMPONENTS

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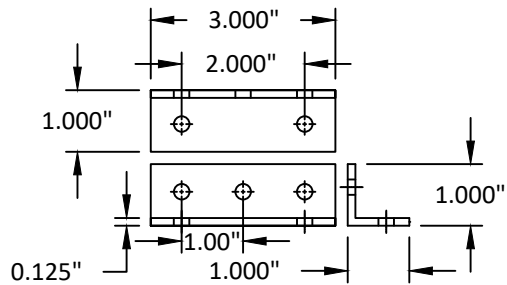
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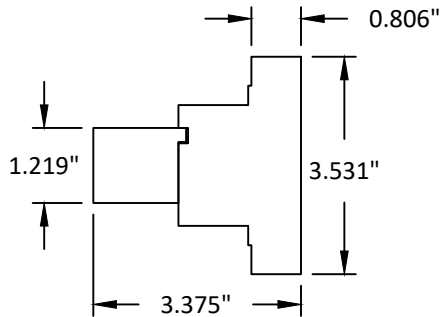
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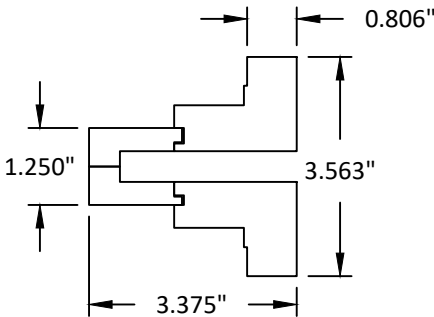
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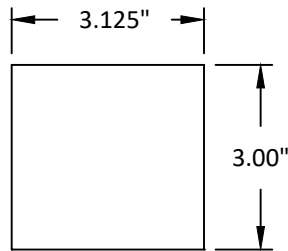
16 SILL ANGLE CLIP
304 STAINLESS STEEL



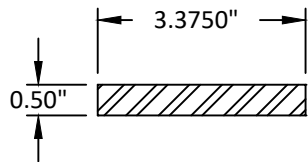
18 HORIZONTAL MULLION
MAHOGANY



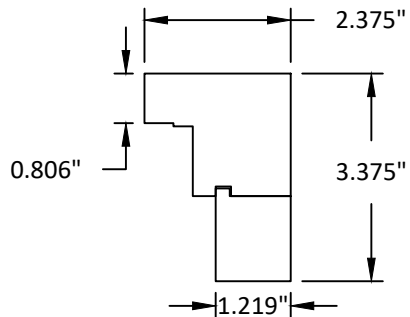
19 HORIZONTAL MULLION
MAHOGANY



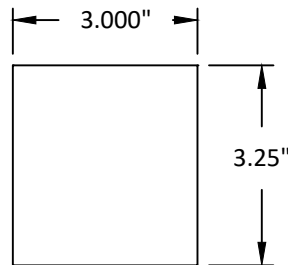
20 HORIZONTAL MULLION STIFFENER
MAHOGANY



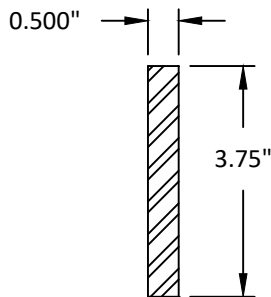
21 HORIZONTAL MULLION STIFFENER
STEEL



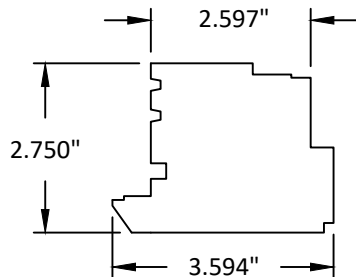
22 VERTICAL MULLION
MAHOGANY



23 VERTICAL MULLION STIFFENER
MAHOGANY



24 VERTICAL MULLION STIFFENER
STEEL



25 TRANSOM STILE/RAIL
MAHOGANY

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CASEMENT WINDOW
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COMPONENTS

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HFN

SCALE: NTS

DWG. #: RWD031

SHEET:

11

OF 11