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OPTIMUM STEEL WINDOWS AND DOORS

6500i FLEX STAINLESS STEEL OUTSWING FRENCH DOOR (WZ3) (IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR FOR EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION DIRECTLY INTO WOOD FRAME, USE #12 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION INTO METAL SUBSTRATE USE #12 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL.
- 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 HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 35.9 MIL (0.0478" or 18 GAUGE). ALUMINUM-MIN. 6063-T5, MINIMUM 1/8" WALL THICKNESS .

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, STEEL, AND 2X 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 IN WZ3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WZ4.
- DOOR FRAME MATERIAL: STEEL,STAINLESS STEEL,CORTEN
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 13 FOR GLAZING DETAILS.

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DESIGN PRESSURE RATING			
OVERALL SIZE	CONFIGURATION	DESIGN PRESSURE	MISSILE IMPACT RATING
84" X 120"	XX	+/- 65 PSF	SMALL & LARGE MISSILE IMPACT
144 3/4" X 120"	XXO	+/- 65 PSF	SMALL & LARGE MISSILE IMPACT
42" X 120"	X	+/- 65 PSF	SMALL & LARGE MISSILE IMPACT

- NOTES:
- REFER TO SHEET 7 FOR ALTERNATE SIZES AND CORRESPONDING DESIGN PRESSURE VALUES.
 - REFER TO SHEETS 2, 3, 4, 5, & 6 FOR ALTERNATE CONFIGURATIONS.
 - SQUARE FOOTAGE AREA HAS BEEN LIMITED TO EQUAL OR LESS THAN THE TESTED AREA FOR SINGLE AND DOUBLE UNITS.



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428

PH: (845) 647-1900 FX: (845) 647-1494

TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)

GENERAL NOTES AND
INSTALLATION NOTES

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

PH: (954)399-8478

FAX: (954)744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
NAME CHANGE	DB	02/25

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

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Reason: I am approving this document
Date: 2025.02.12 17:34:46 -05'00'



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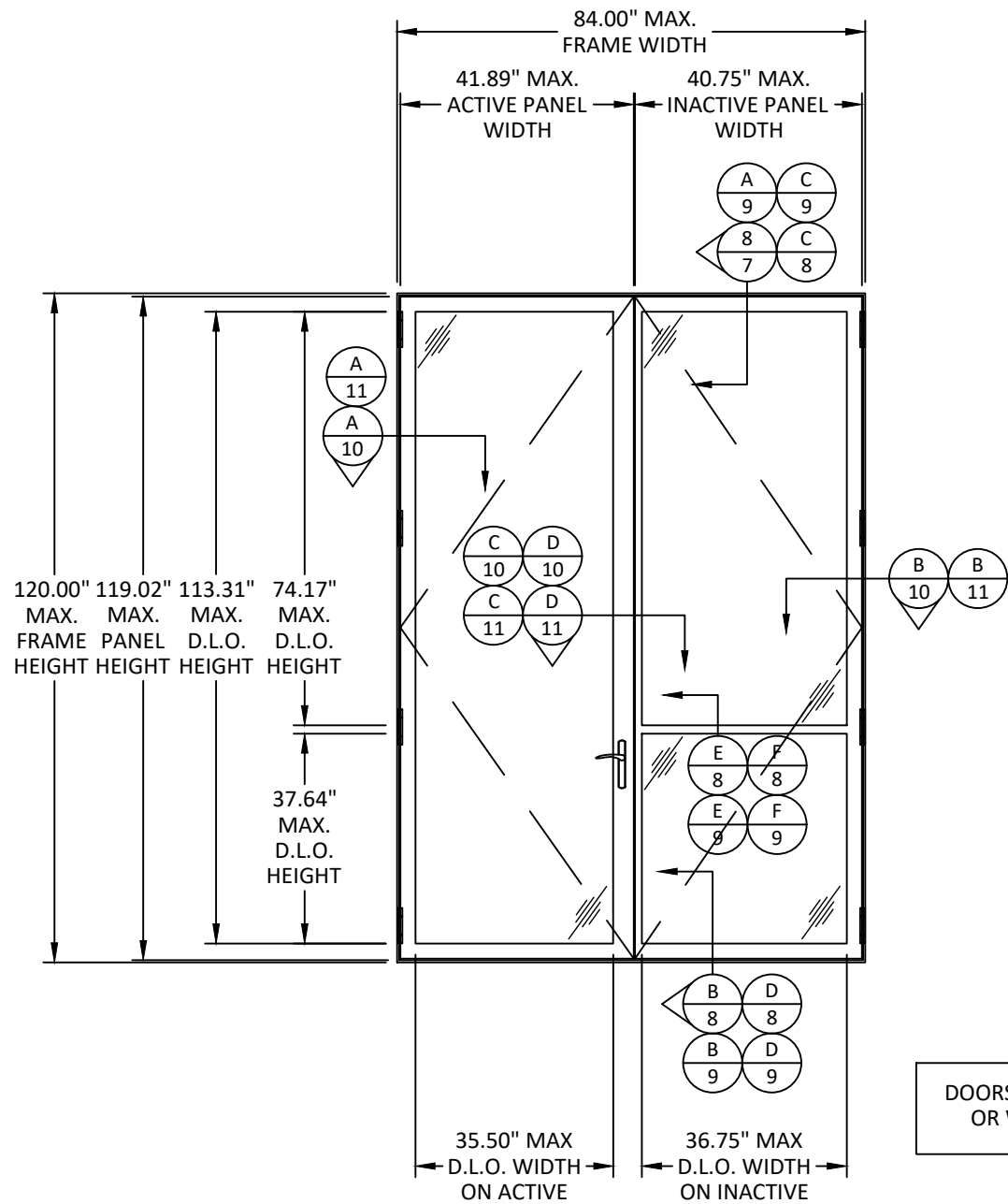
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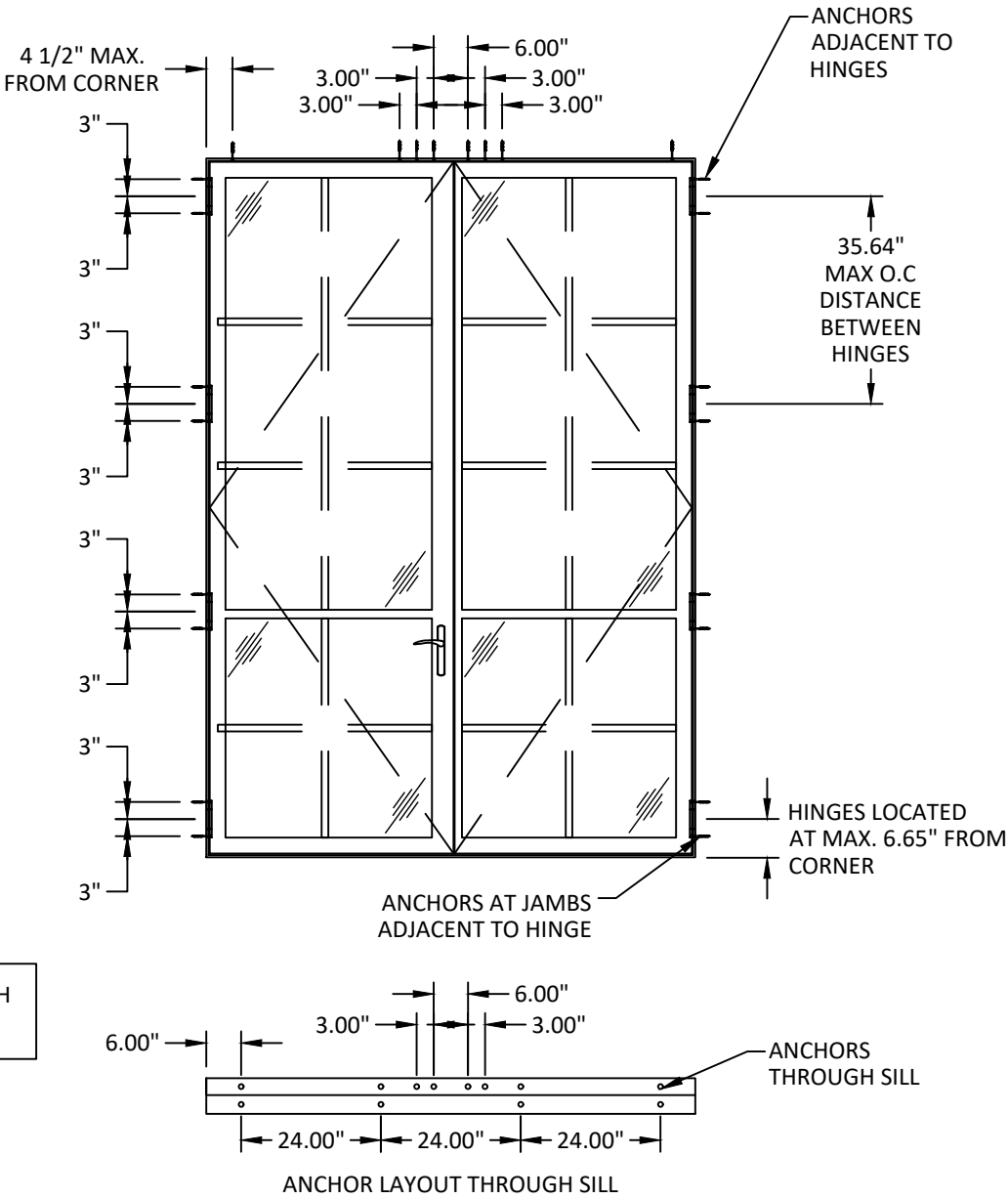
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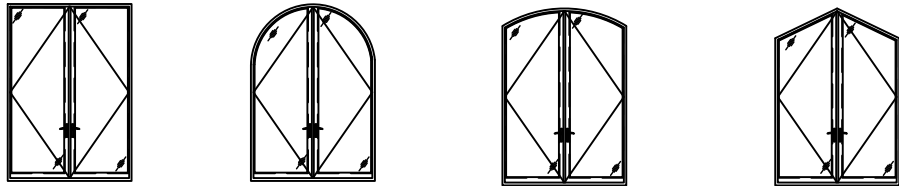
TYPICAL ELEVATION
FRENCH OUTSWING DOOR



ANCHOR LAYOUT
FRENCH OUTSWING DOOR

DOORS ARE QUALIFIED WITH
OR WITHOUT MUNTINS

ALLOWABLE
CONFIGURATIONS



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
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OUTSWING FRENCH DOOR
(WZ3) (IMPACT)

ELEVATION & ANCHOR LAYOUT
FRENCH DOOR

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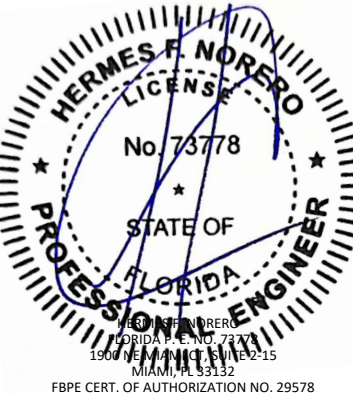
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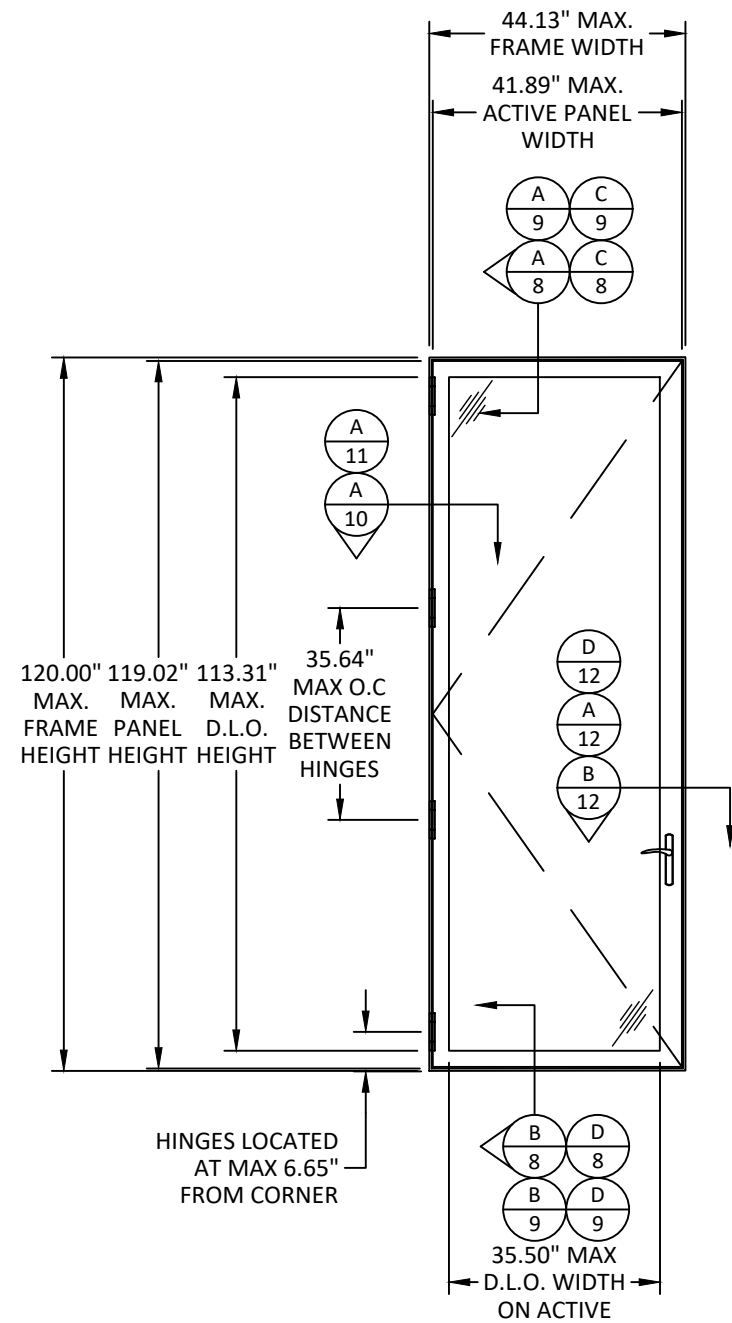
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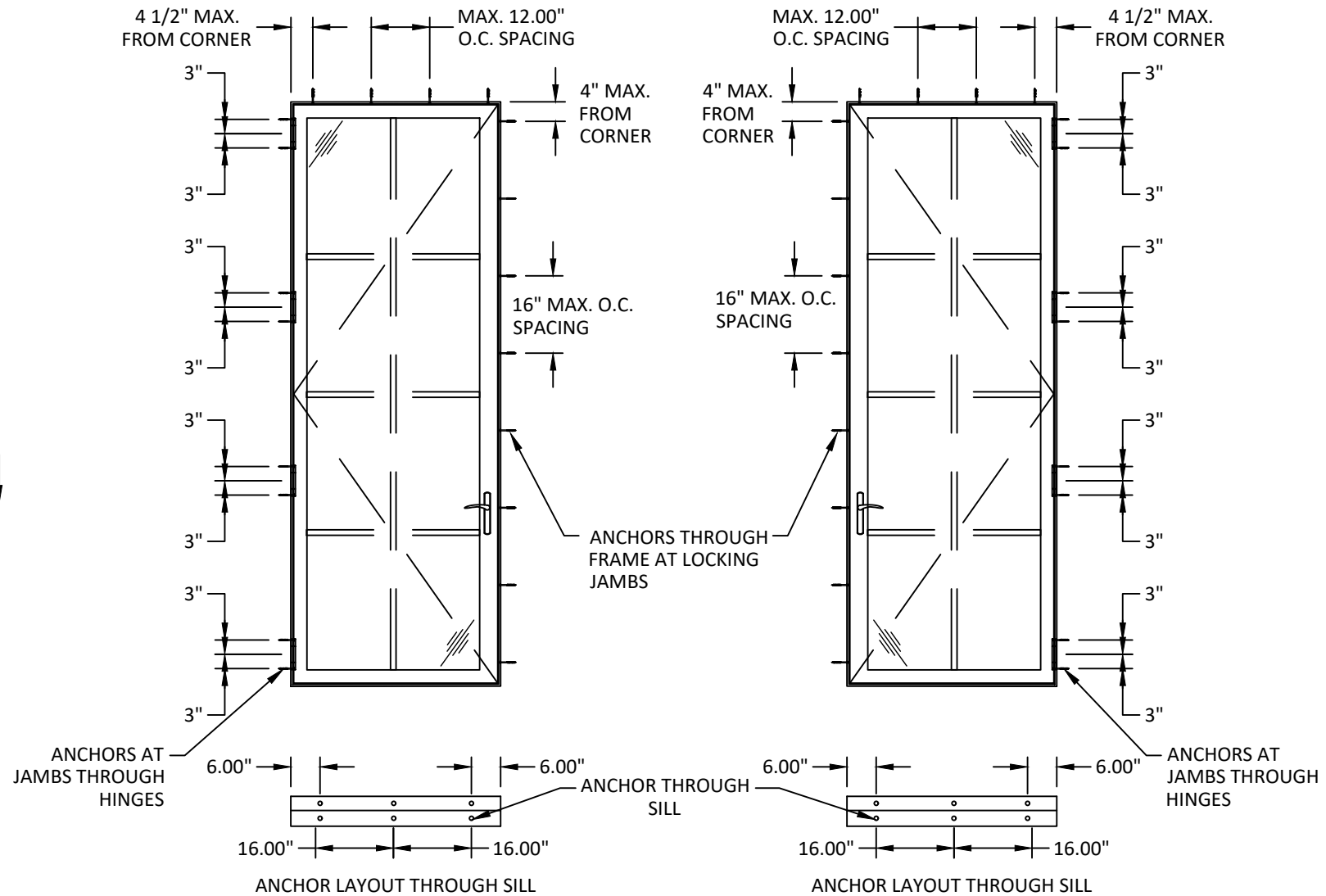
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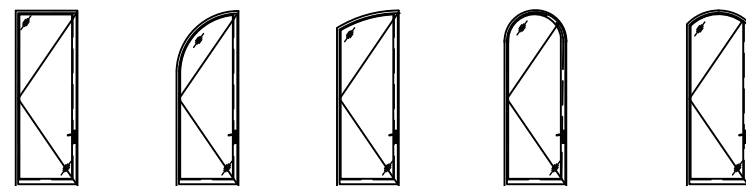
TYPICAL ELEVATION
FRENCH OUTSWING SINGLE DOOR



ANCHOR LAYOUT
FRENCH OUTSWING SINGLE DOOR

DOORS ARE QUALIFIED WITH
OR WITHOUT MUNTINS

**ALLOWABLE
CONFIGURATIONS**



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428

PH: (845) 647-1900 FX: (845) 647-1494

TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)
ELEVATION & ANCHOR LAYOUT
SINGLE DOOR

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

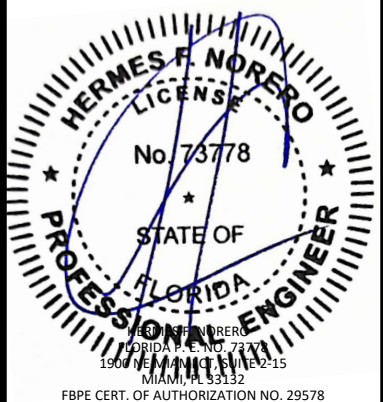
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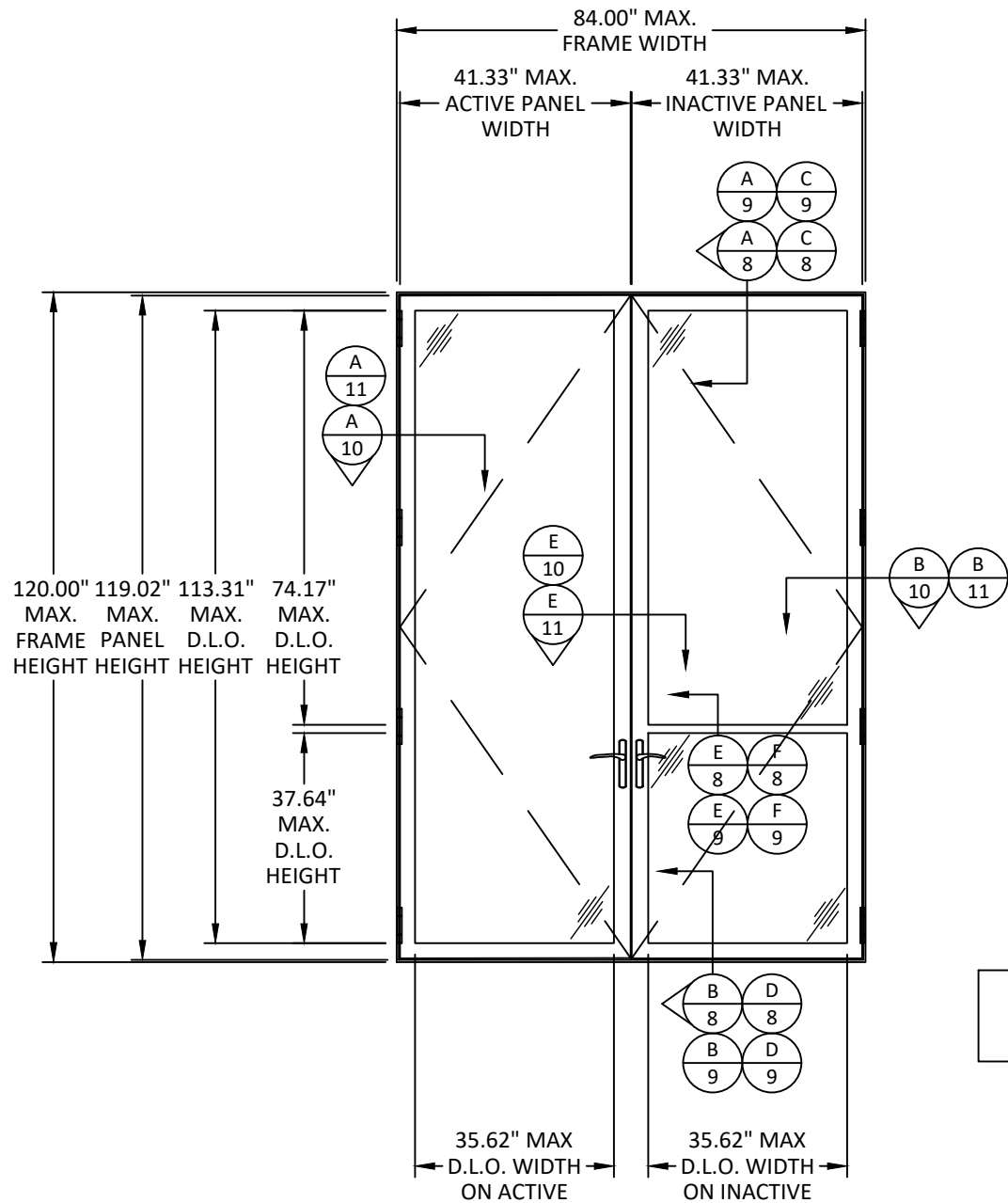
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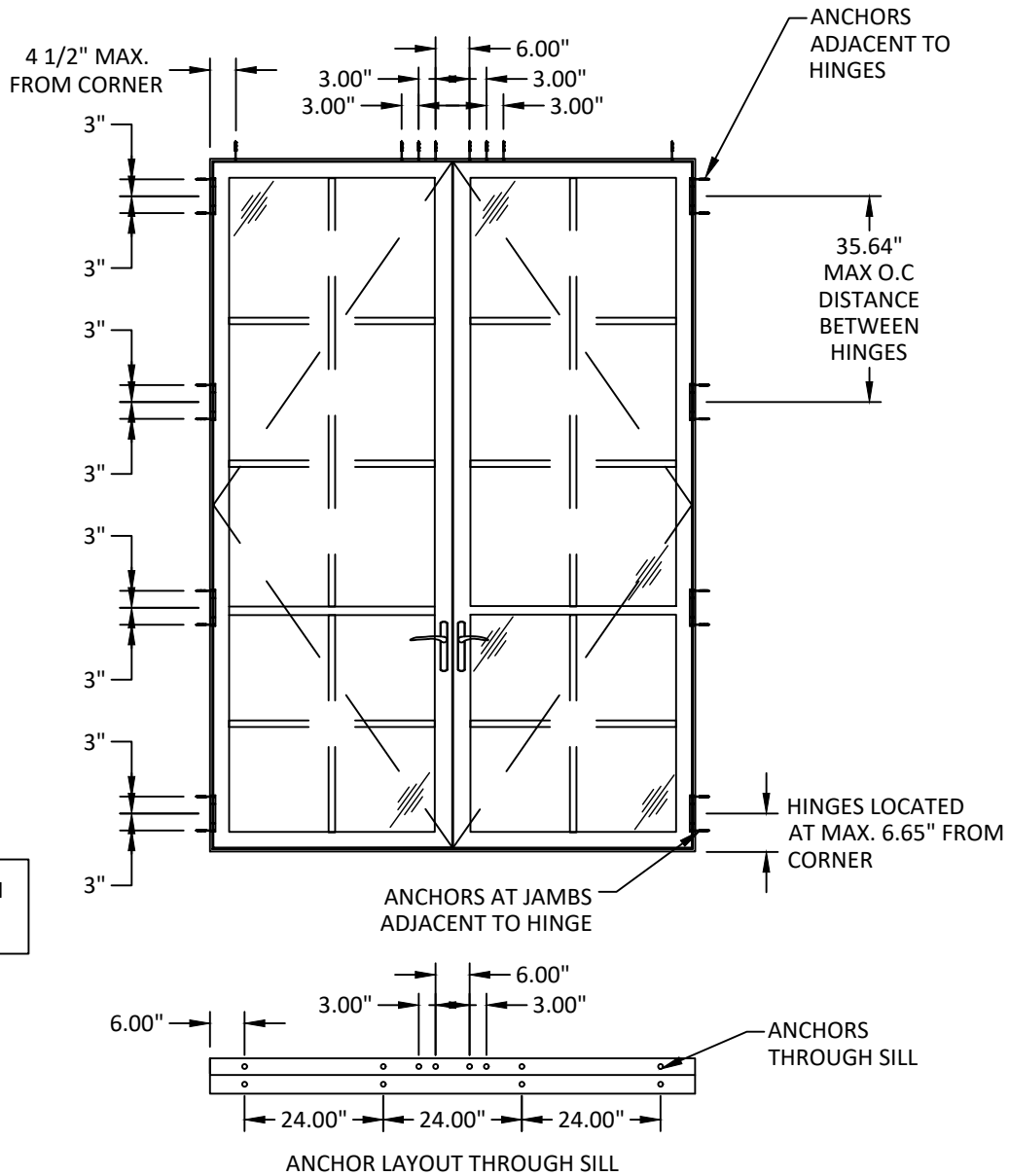
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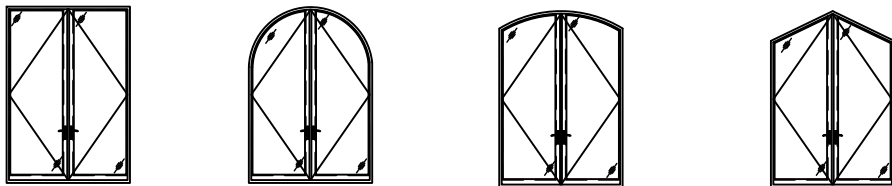


TYPICAL ELEVATION
FRENCH OUTSWING DOOR



ANCHOR LAYOUT
FRENCH OUTSWING DOOR

**ALLOWABLE
CONFIGURATIONS**



OPTIMUM STEEL WINDOWS AND DOORS
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TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)

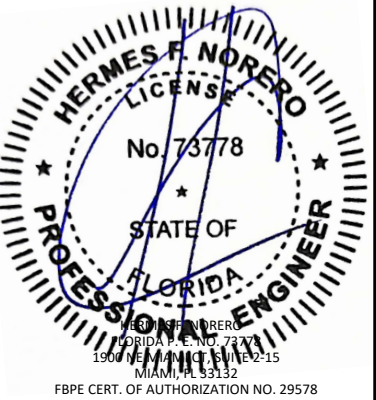
**ELEVATION & ANCHOR LAYOUT
LARGE RAIL FRENCH DOOR**

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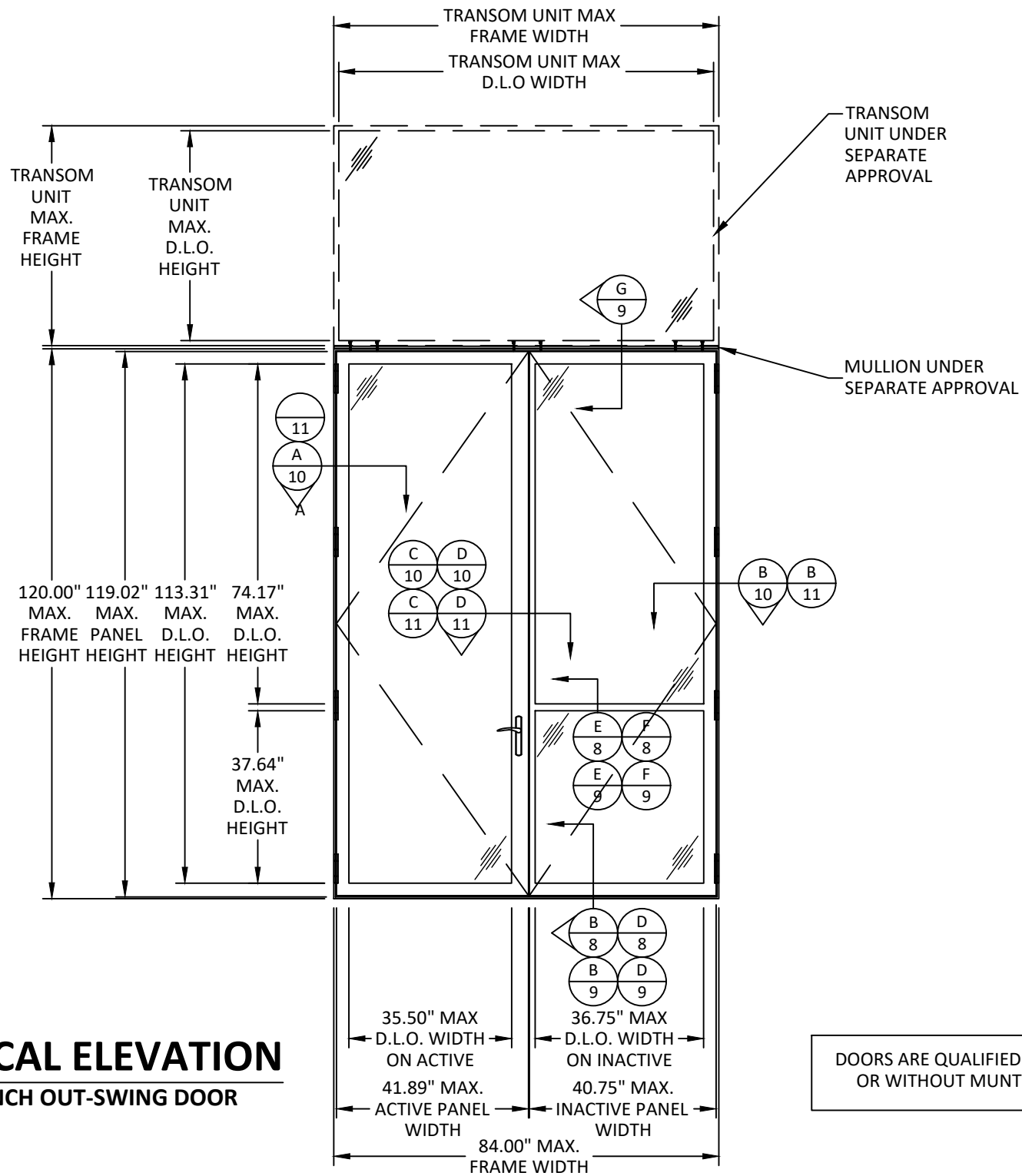
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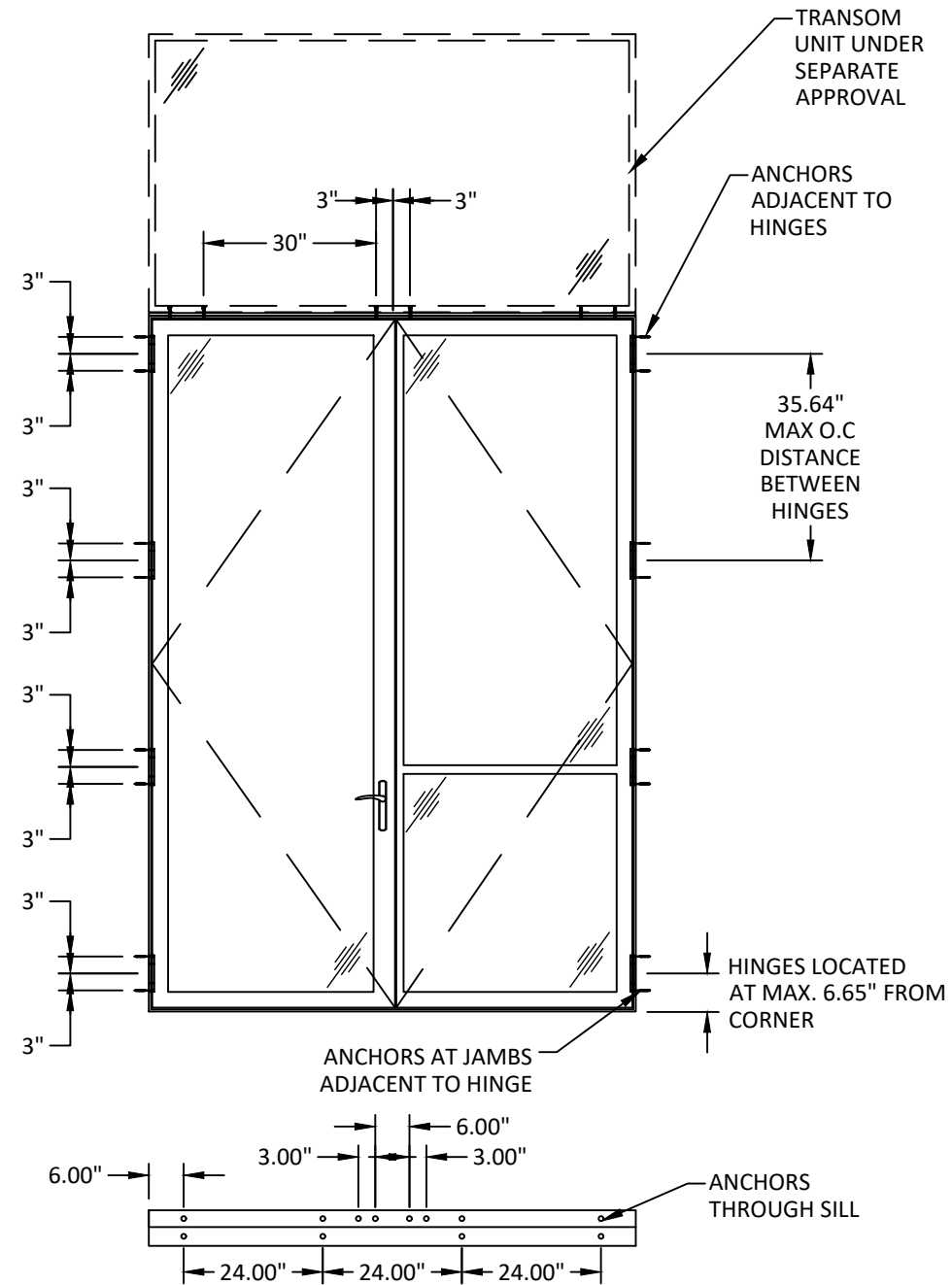
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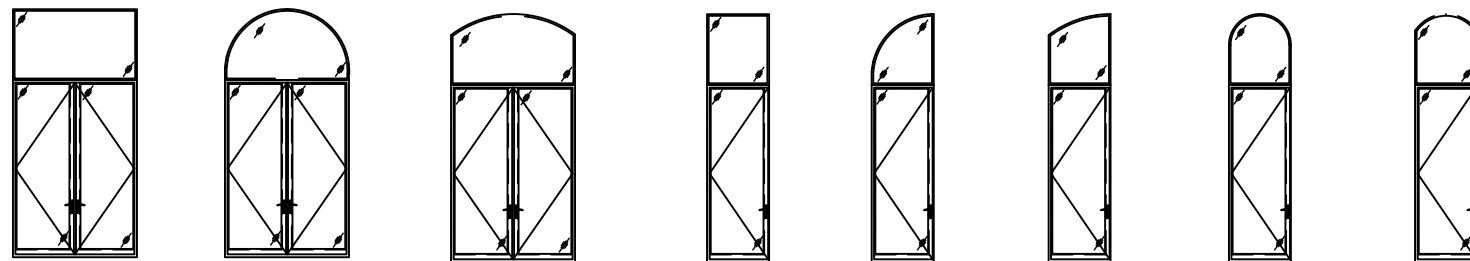
TYPICAL ELEVATION FRENCH OUT-SWING DOOR



ANCHOR LAYOUT FRENCH OUT-SWING DOOR



ALLOWABLE CONFIGURATIONS



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428

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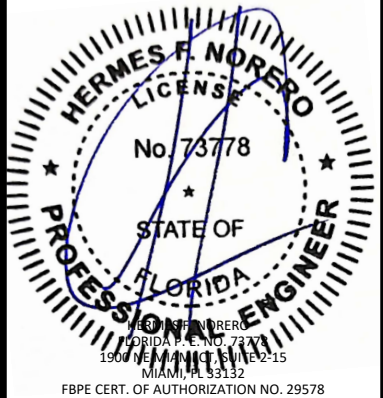
TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)
ELEVATION & ANCHOR LAYOUT
FRENCH DOOR W/ TRANSOM

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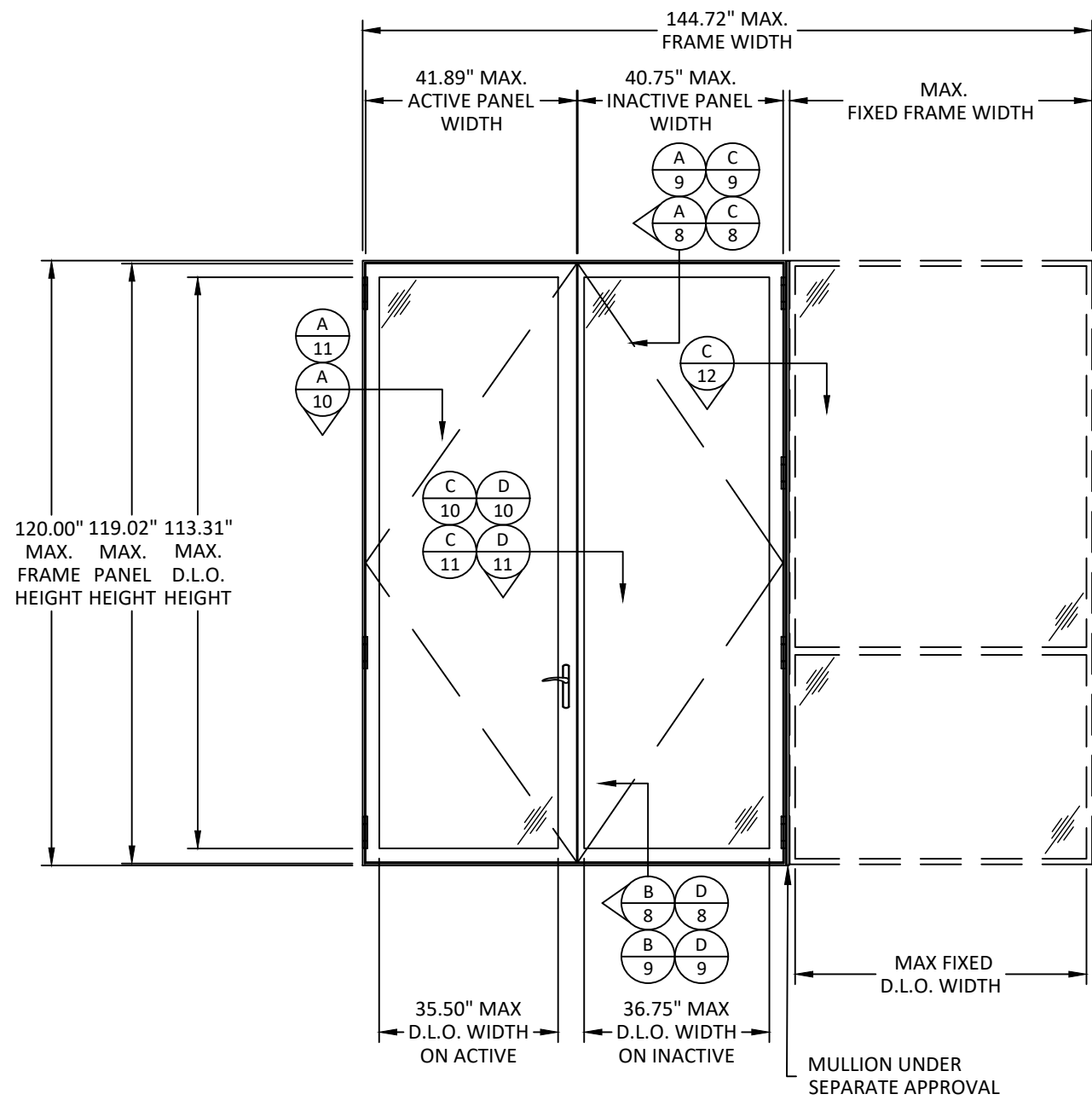
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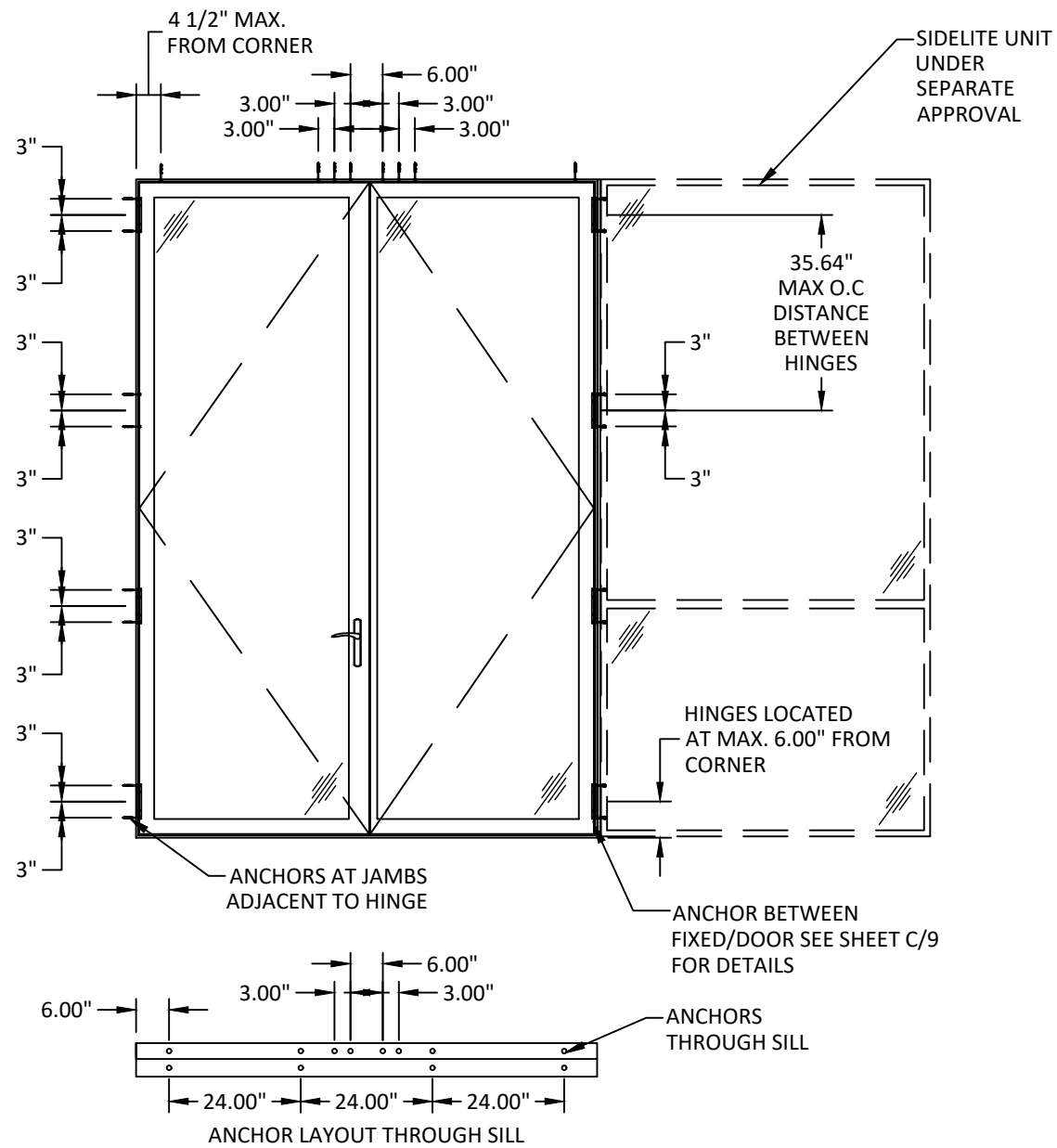
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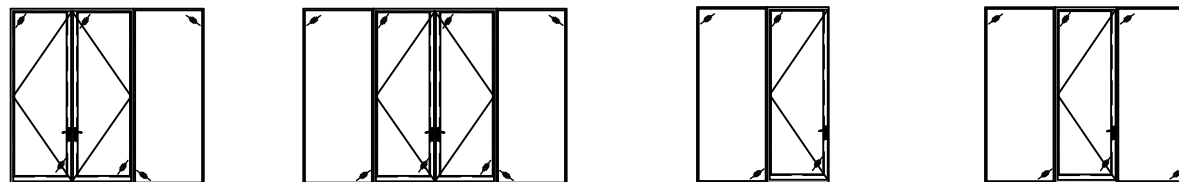
TYPICAL ELEVATION
FRENCH OUTSWING DOOR WITH
SIDELITE

DOORS ARE QUALIFIED WITH
OR WITHOUT MUNTINS



ANCHOR LAYOUT
FRENCH OUTSWING DOOR WITH
SIDELITE

**ALLOWABLE
CONFIGURATIONS**



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428
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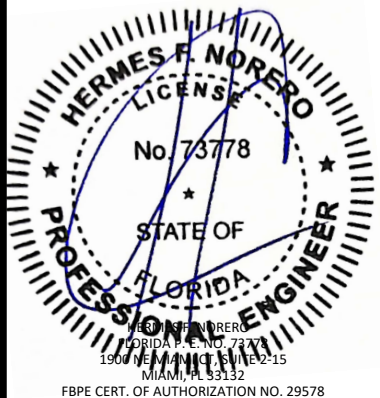
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OUTSWING FRENCH DOOR
(WZ3) (IMPACT)
ELEVATION & ANCHOR LAYOUT
FRENCH DOOR W/ SIDELITES

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DOOR DP TABLE

DESIGN PRESSURE TABLE			
NOMINAL DIMS.		PRESSURE (PSF)	
LEAF WIDTH (W) 'in.'	LEAF HEIGHT 'in.'	EXT. (+)	INT. (-)
31.33	71.00	65.0	65.0
35.33		65.0	65.0
41.33		65.0	65.0
47.33		65.0	65.0
53.33		65.0	65.0
59.33		65.0	65.0
31.33	77.00	65.0	65.0
35.33		65.0	65.0
41.33		65.0	65.0
47.33		65.0	65.0
53.33		65.0	65.0
59.33		65.0	65.0
31.33	83.00	65.0	65.0
35.33		65.0	65.0
41.33		65.0	65.0
47.33		65.0	65.0
53.33		65.0	65.0
59.33		65.0	65.0
31.33	89.00	65.0	65.0
35.33		65.0	65.0
41.33		65.0	65.0
47.33		65.0	65.0
53.33		65.0	65.0
55.33		65.0	65.0

DESIGN PRESSURE TABLE			
NOMINAL DIMS.		PRESSURE (PSF)	
LEAF WIDTH (W) 'in.'	LEAF HEIGHT 'in.'	EXT. (+)	INT. (-)
31.33	95.00	65.0	65.0
35.33		65.0	65.0
41.33		65.0	65.0
47.33		65.0	65.0
51.33		65.0	65.0
31.33		65.0	65.0
35.33	101.00	65.0	65.0
41.33		65.0	65.0
47.33		65.0	65.0
31.33	107.00	65.0	65.0
35.33		65.0	65.0
41.33		65.0	65.0
45.33		65.0	65.0
31.33	113.00	65.0	65.0
35.33		65.0	65.0
41.33		65.0	65.0
43.33		65.0	65.0
31.33	119.00	65.0	65.0
35.33		65.0	65.0
41.33		65.0	65.0
31.33		65.0	65.0
35.33	125.00	64.4	64.4
39.33		58.4	58.4

MIDRAIL DP TABLE

LIMIT DESIGN LOADS FOR MIDRAIL AS FOLLOWS		
MAX HORIZ. SPAN (in.)	MAX GLASS HEIGHT ABOVE HORIZ. (in.)	MAX DESIGN LOADS (PSF)
		Horizontal
28.75	80.5	60.0
34.75	66.5	60.0
40.75	57.5	60.0
46.75	49.5	60.0
52.75	43.5	60.0
58.75	39.5	60.0



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OUTSWING FRENCH DOOR
(WZ3) (IMPACT)

DESIGN PRESSURE TABLES

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MIAMI, FL 33132

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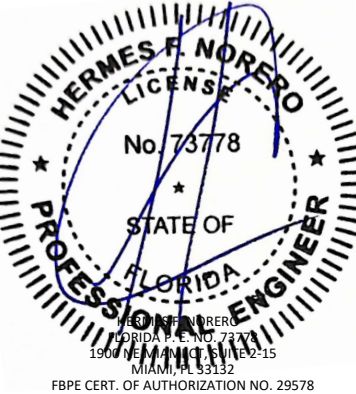
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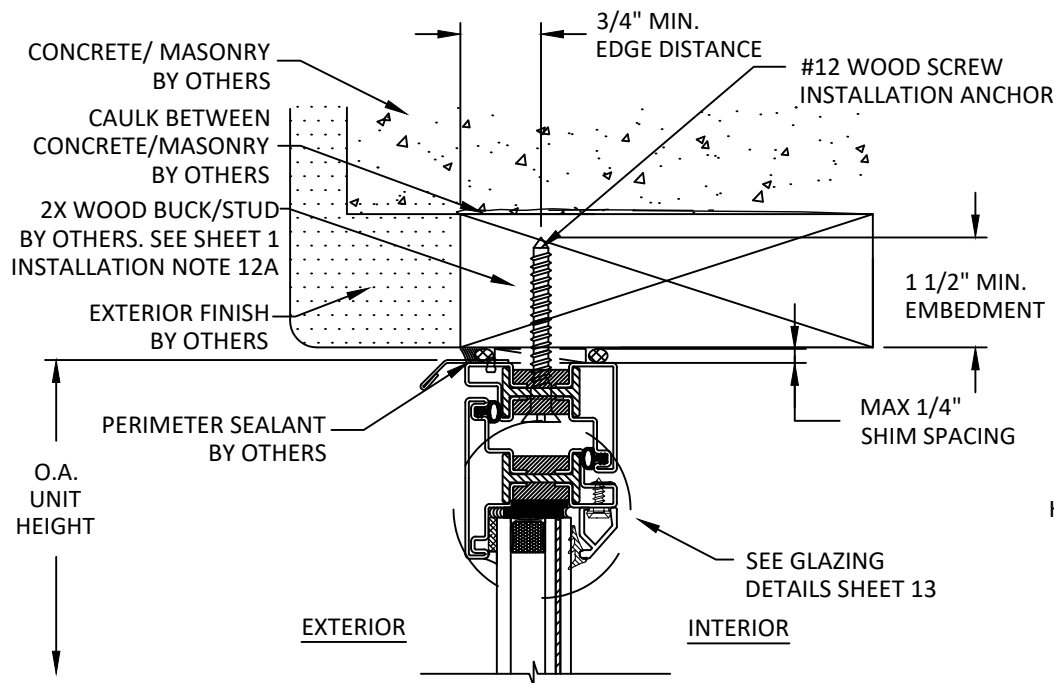
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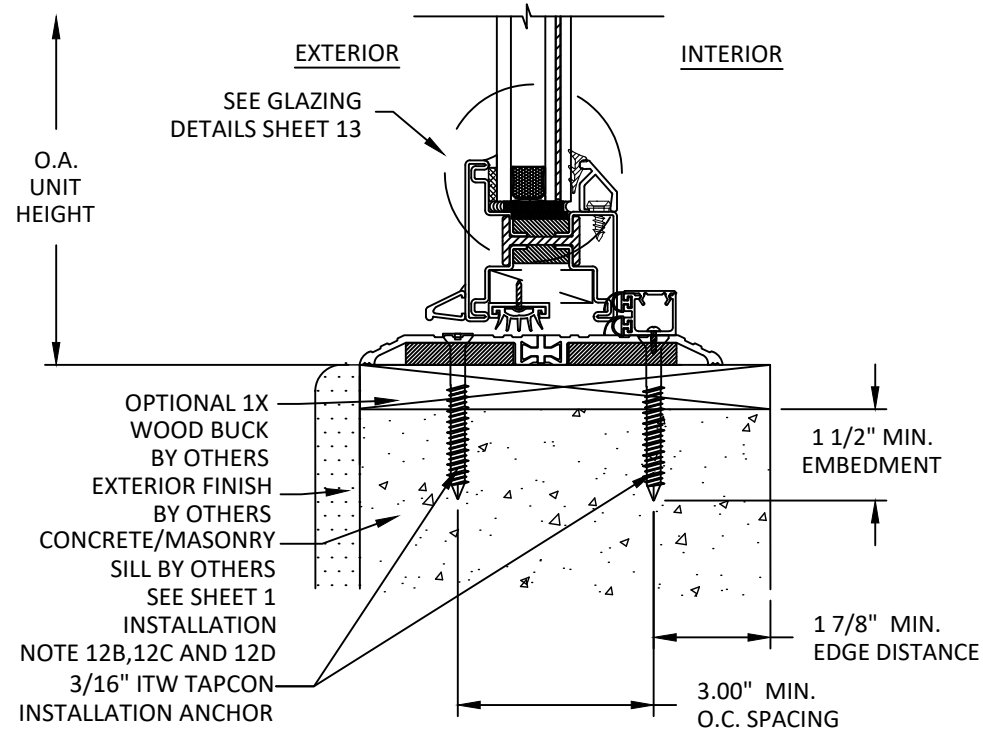


FL#:		FL35023
DATE:		01.10.22
DWG. BY:	CHK. BY:	
SH	HN	
SCALE:		NTS
DWG. #:		OPW014
SHEET:		7

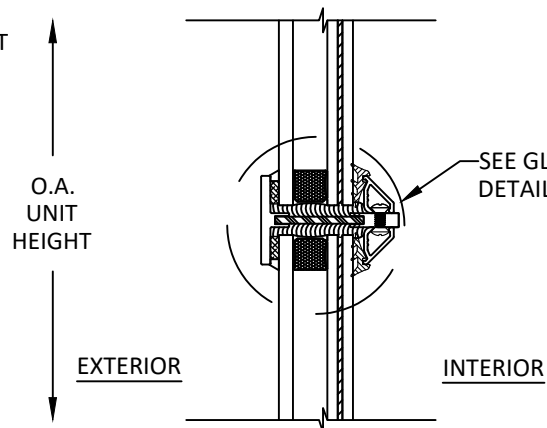
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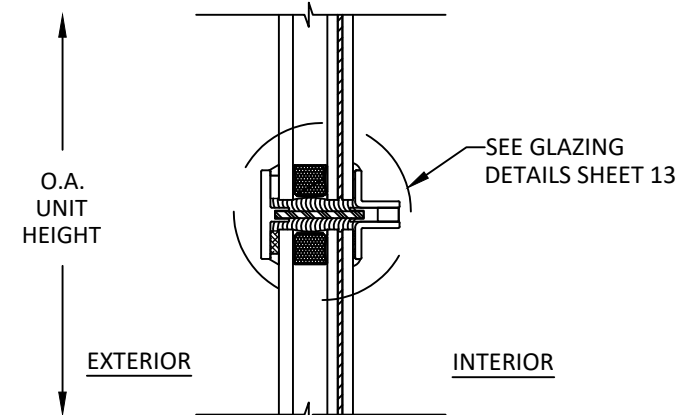
A
8 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
INSIDE GLAZED



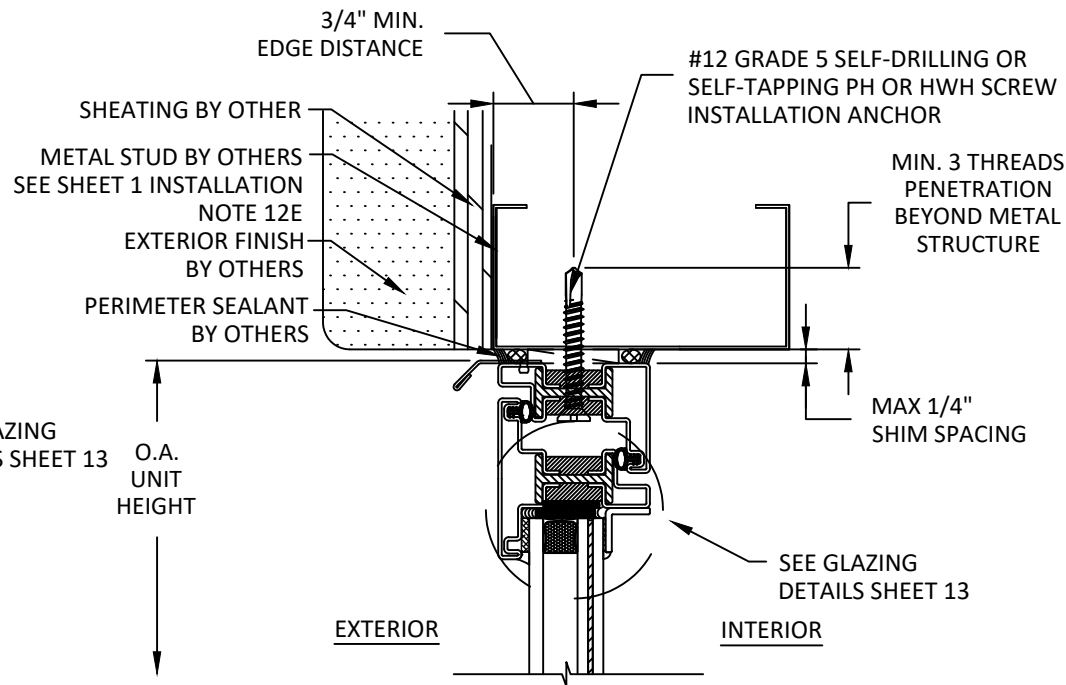
B
8 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
INSIDE GLAZED



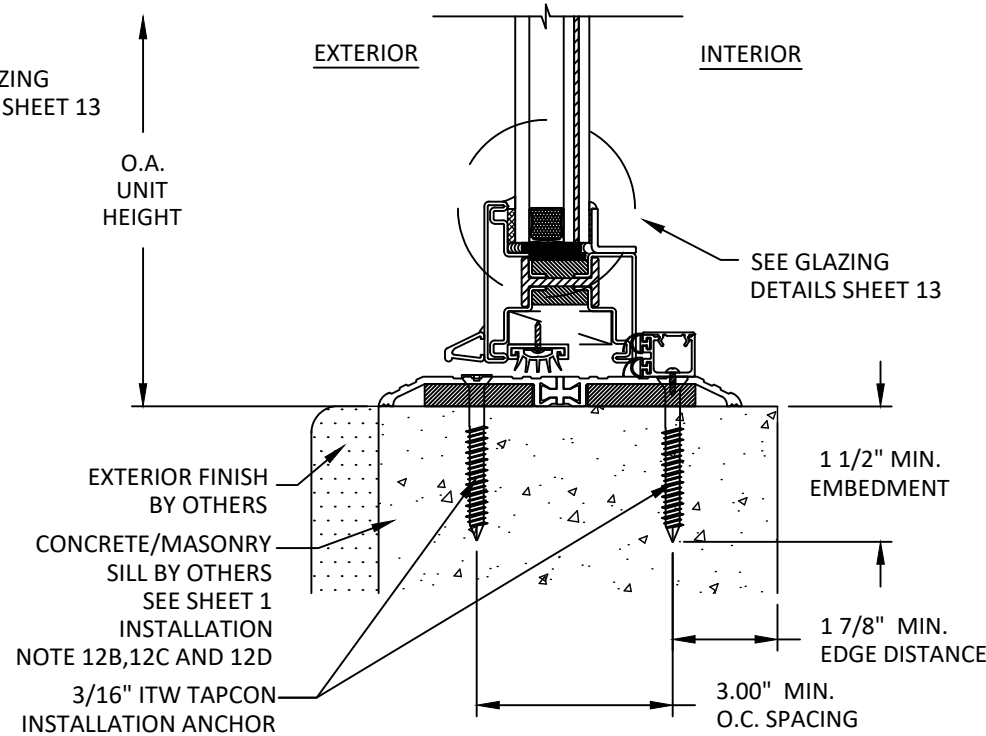
E
8 **VERTICAL SECTION**
MIDRAILS
INSIDE GLAZED



F
8 **VERTICAL SECTION**
MIDRAIL
INSIDE GLAZED



C
8 **VERTICAL SECTION**
HEAD - METAL STUD
INSIDE GLAZED



D
8 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
INSIDE GLAZED



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428
PH: (845) 647-1900 FX: (845) 647-1494

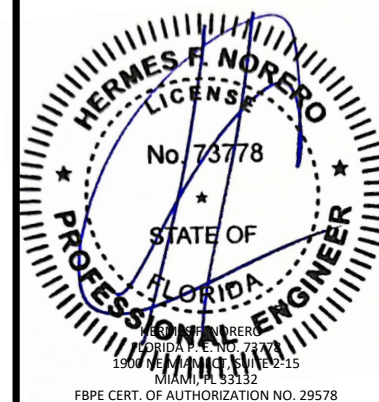
TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)
VERTICAL SECTIONS
(INSIDE GLAZED)

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



REMARKS	BY	DATE
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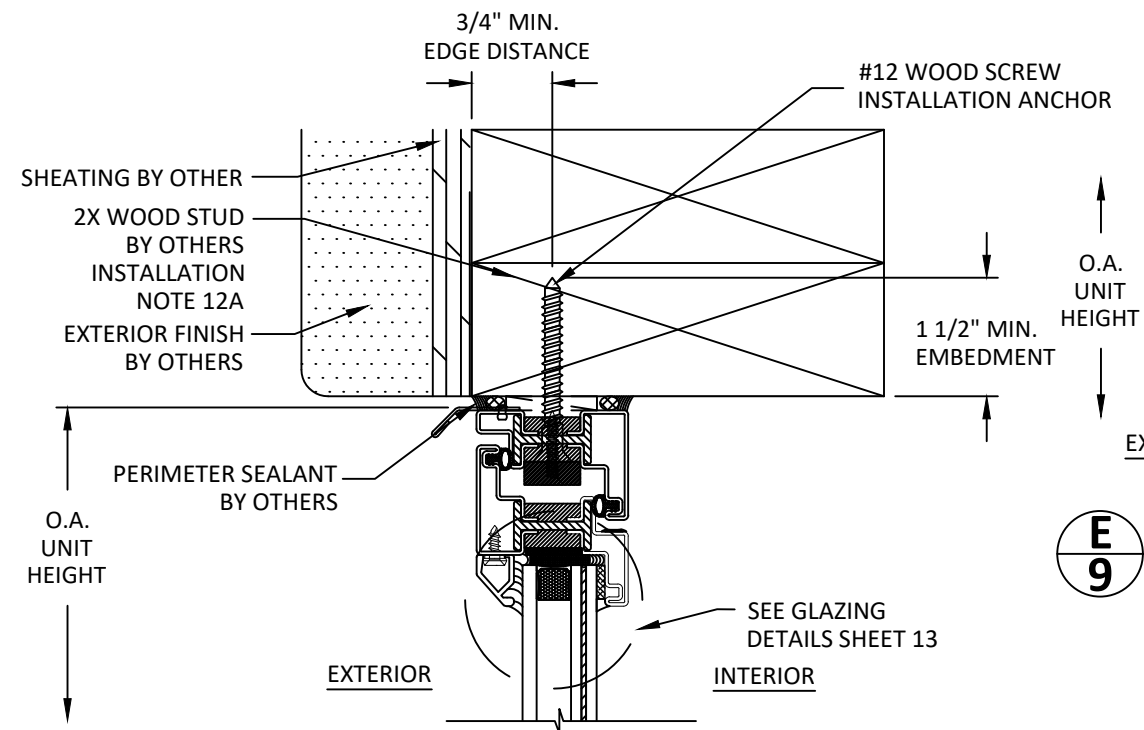
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SCALE: **NTS**

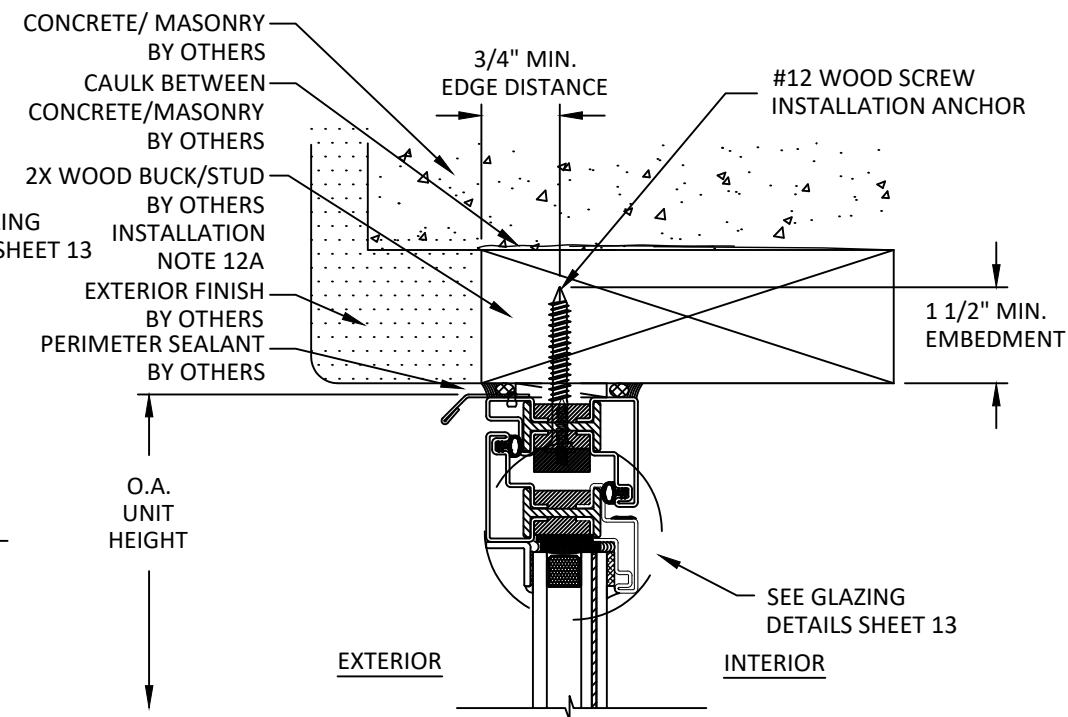
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SHEET:
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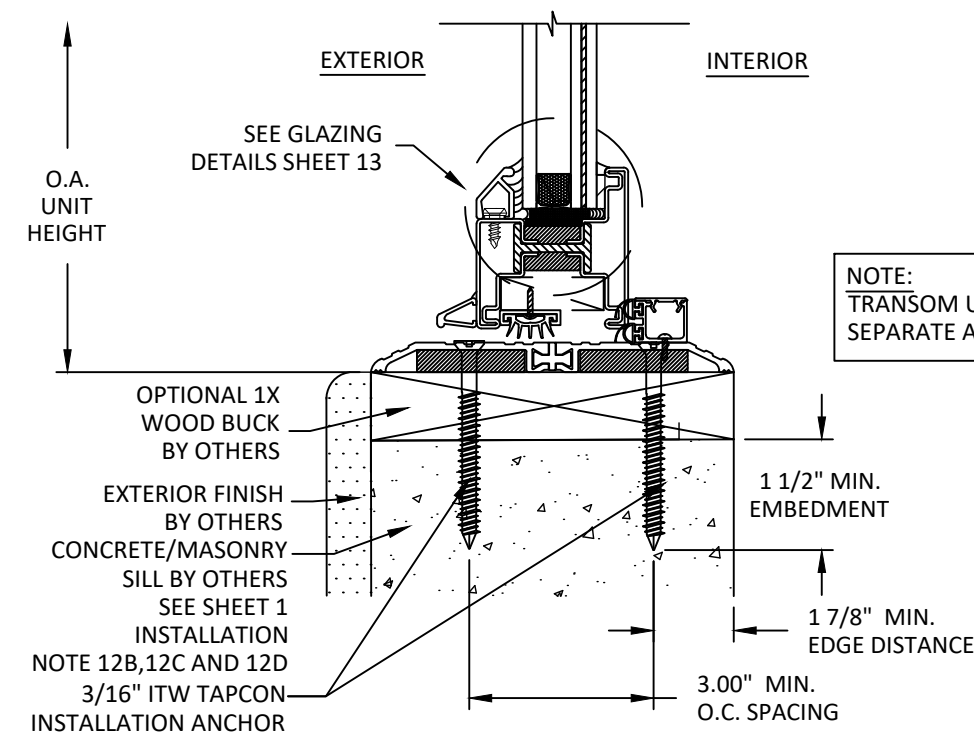
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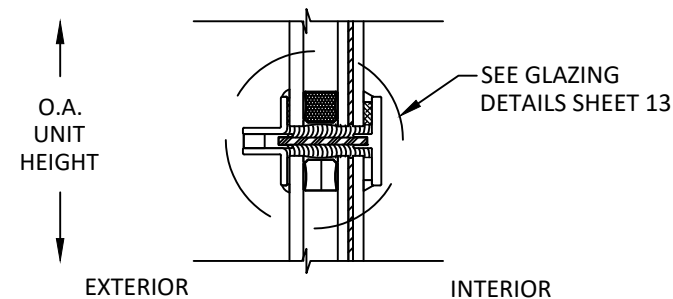
E 9 VERTICAL SECTION
MIDRAIL
OUTSIDE GLAZED



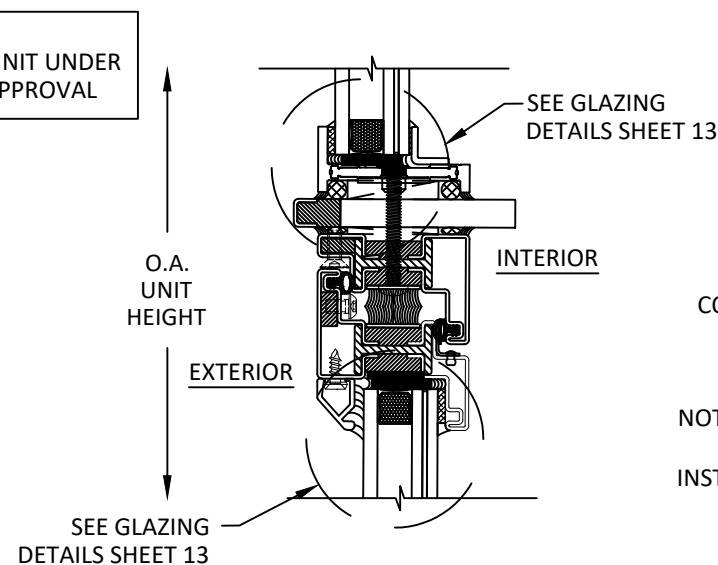
C 9 VERTICAL SECTION
HEAD - 2X WOOD BUCK
OUTSIDE GLAZED



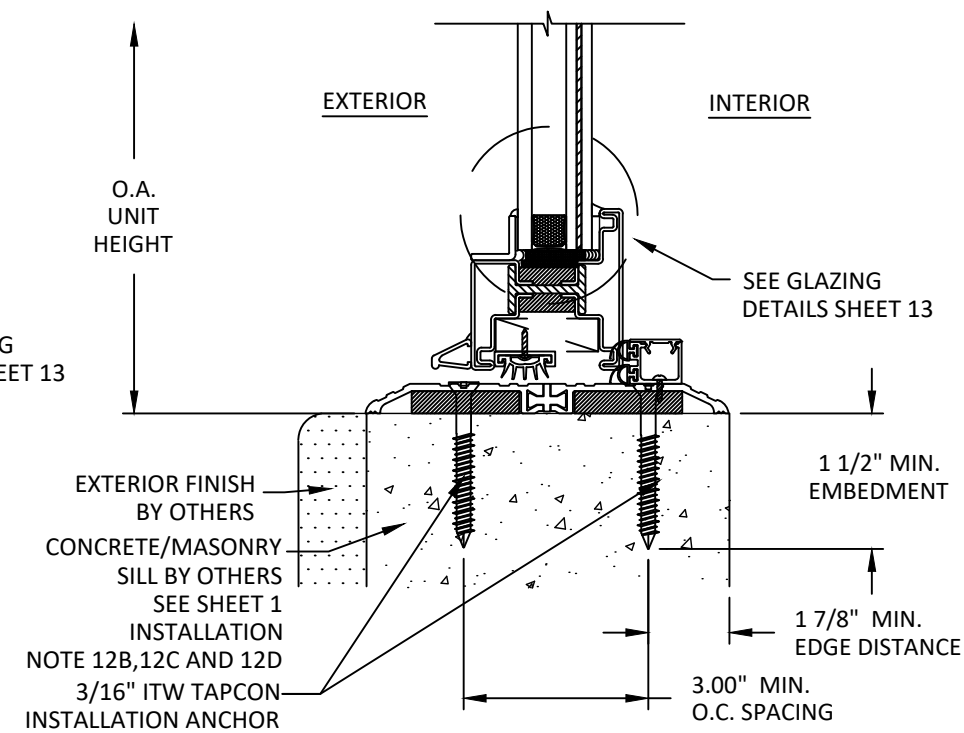
B 9 VERTICAL SECTION
SILL - CONCRETE/MASONRY
OUTSIDE GLAZED



F 9 VERTICAL SECTION
MIDRAIL
OUTSIDE GLAZED



G 9 VERTICAL SECTION
MIDRAIL
OUTSIDE GLAZED



D 9 VERTICAL SECTION
SILL - CONCRETE/MASONRY
OUTSIDE GLAZED



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428
PH: (845) 647-1900 FX: (845) 647-1494

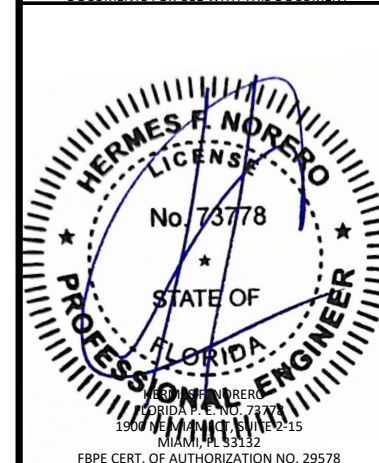
TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)
VERTICAL SECTIONS
(OUTSIDE GLAZED)

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
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DATE: **01.10.22**

DWG. BY: **SH** CHK. BY: **HN**

SCALE: **NTS**

DWG. #: **OPW014**

SHEET:
9



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428
PH: (845) 647-1900 FX: (845) 647-1494

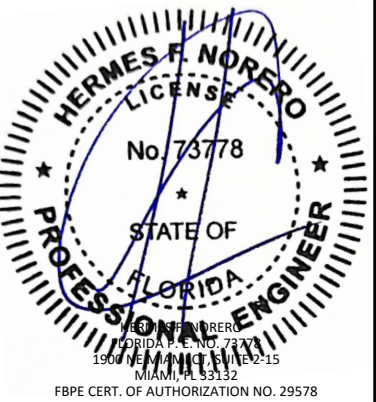
TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)
HORIZONTAL SECTIONS
(INSIDE GLAZED)

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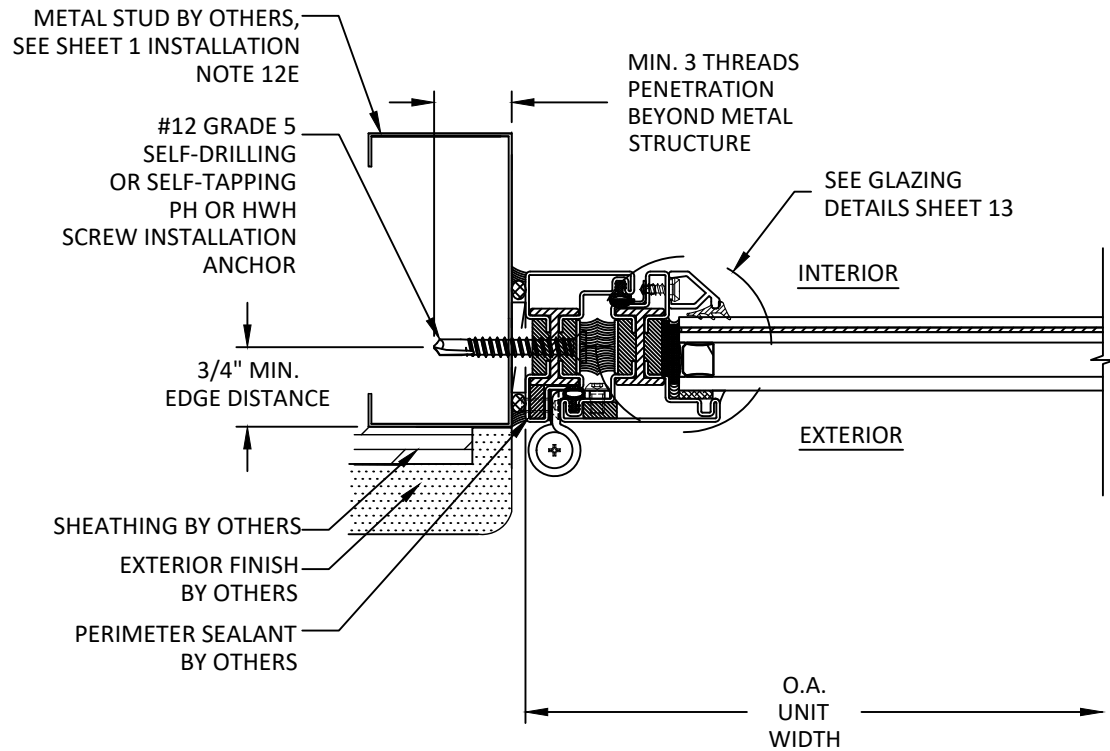


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NAME CHANGE	DB	02/25

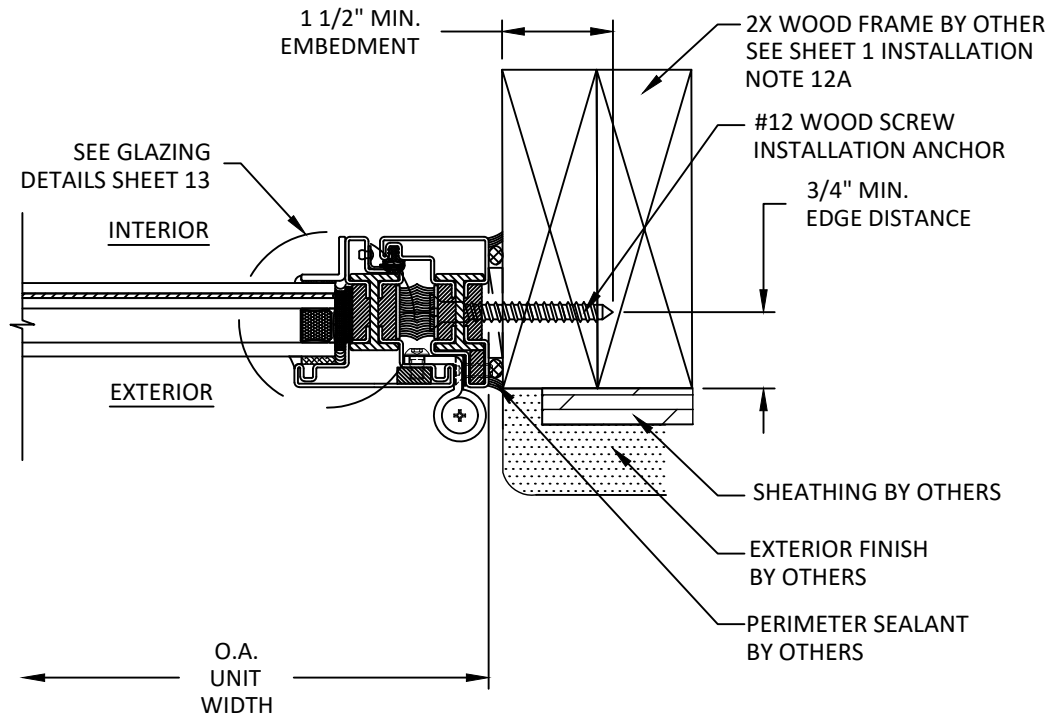
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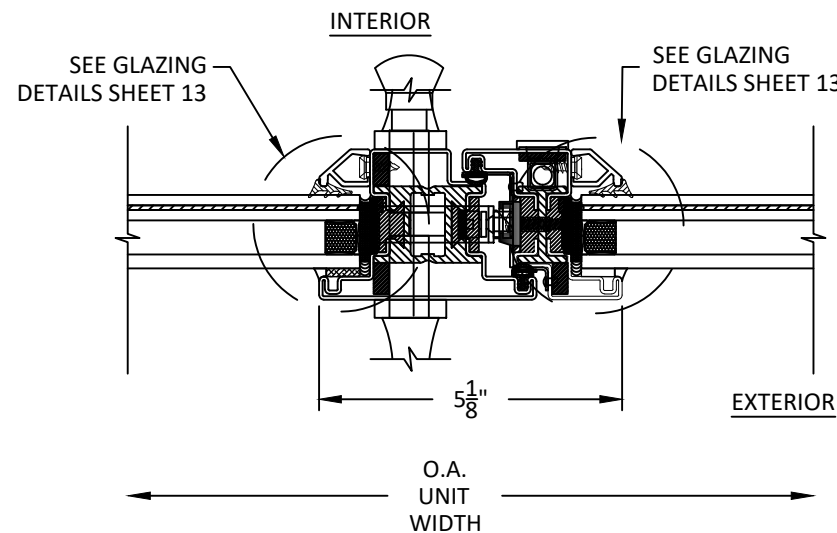
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DATE:	01.10.22
DWG. BY:	SH
CHK. BY:	HN
SCALE:	NTS
DWG. #:	OPW014
SHEET:	10



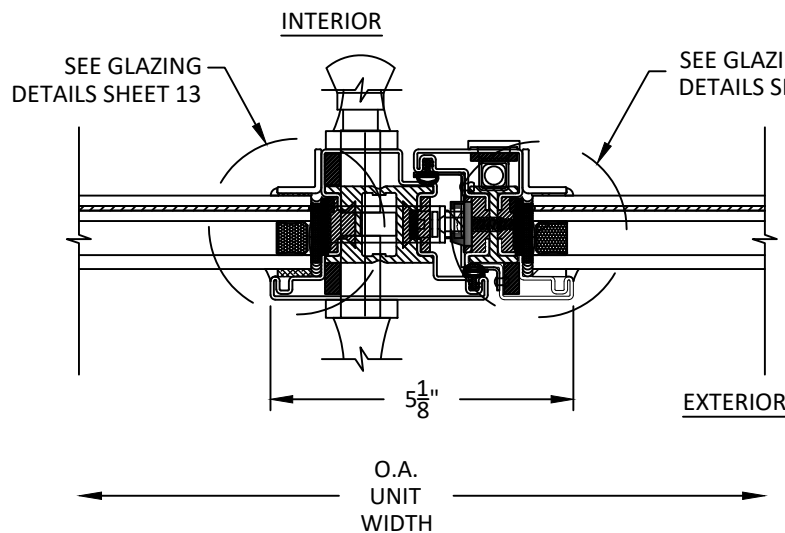
A
10 HORIZONTAL SECTION
JAMB - METAL STUD
INSIDE GLAZED



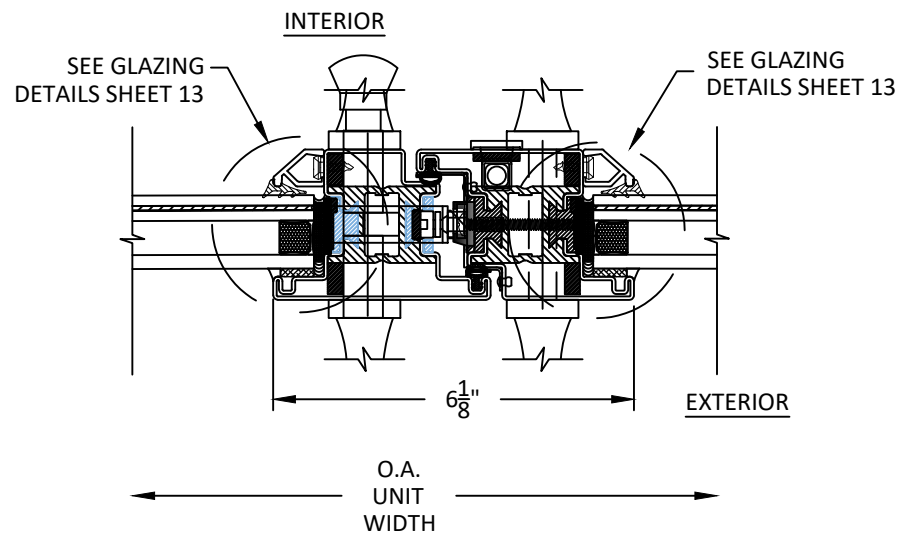
B
10 HORIZONTAL SECTION
JAMB - 2X WOOD FRAME
INSIDE GLAZED



C
10 HORIZONTAL SECTION
ASTRAGAL
INSIDE GLAZED



D
10 HORIZONTAL SECTION
ASTRAGAL
INSIDE GLAZED



E
10 HORIZONTAL SECTION
ASTRAGAL
INSIDE GLAZED



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428

PH: (845) 647-1900 FX: (845) 647-1494

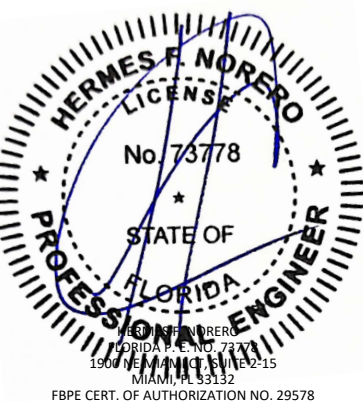
TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)
HORIZONTAL SECTIONS
(OUTSIDE GLAZED)

PREPARED BY:
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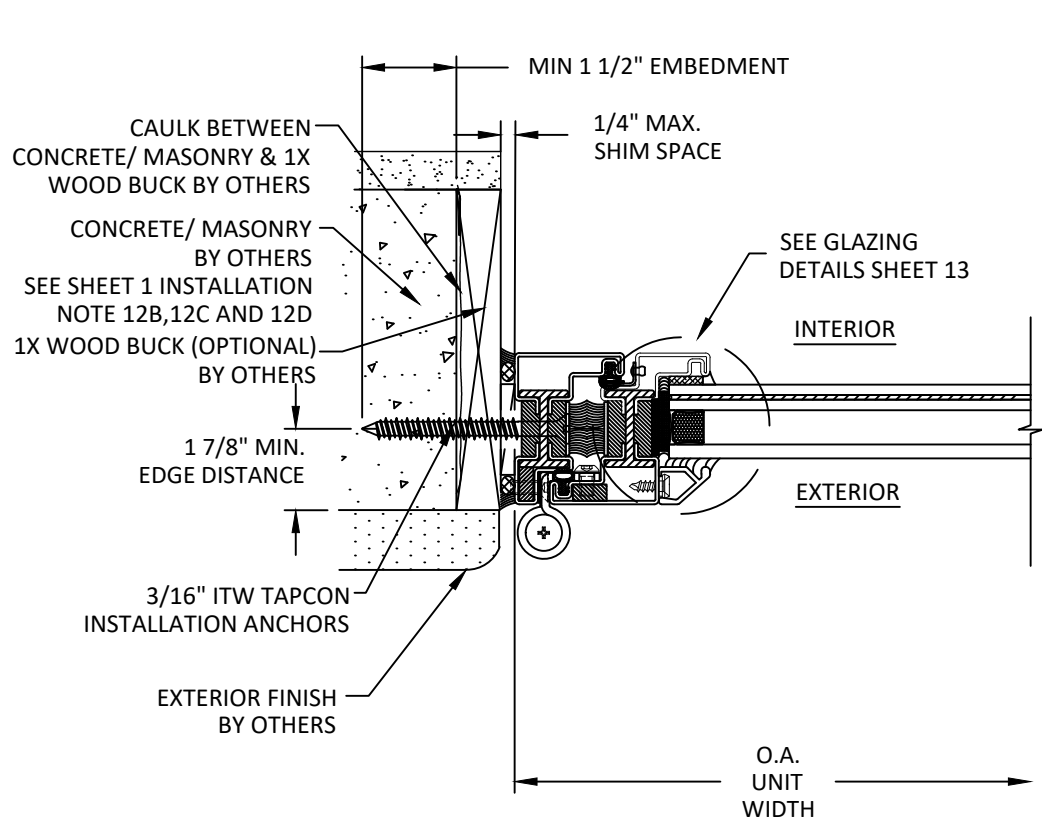
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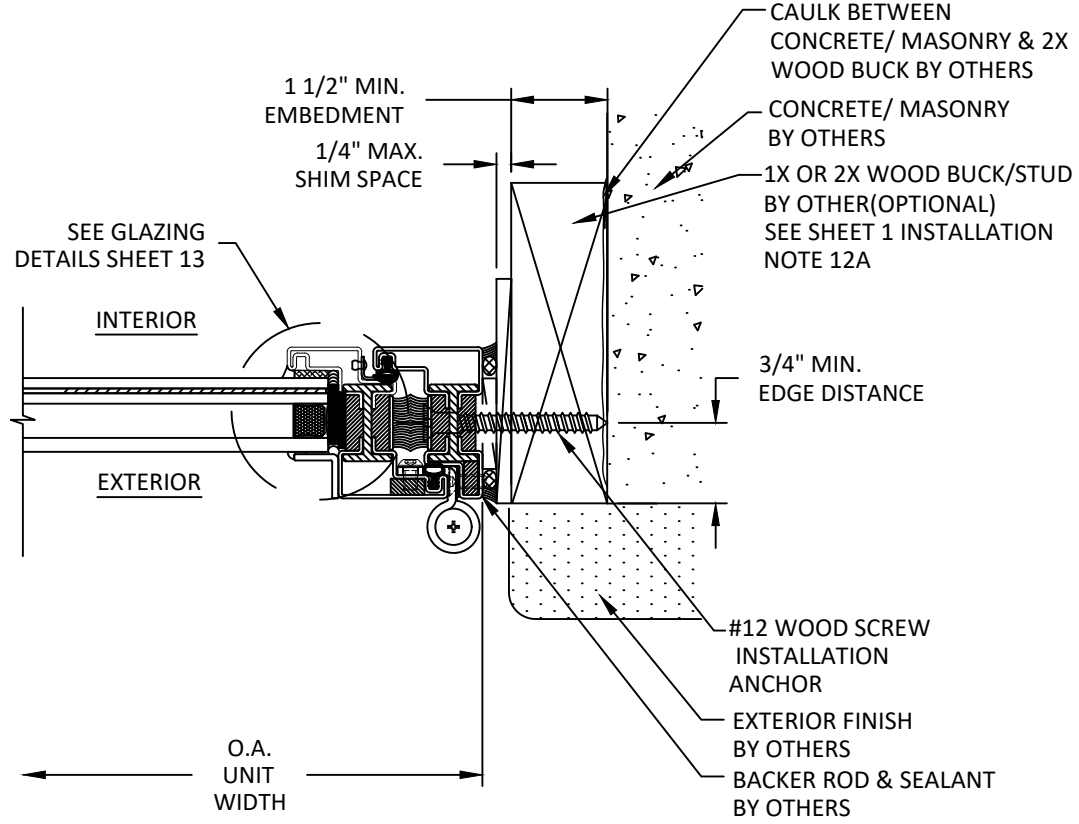
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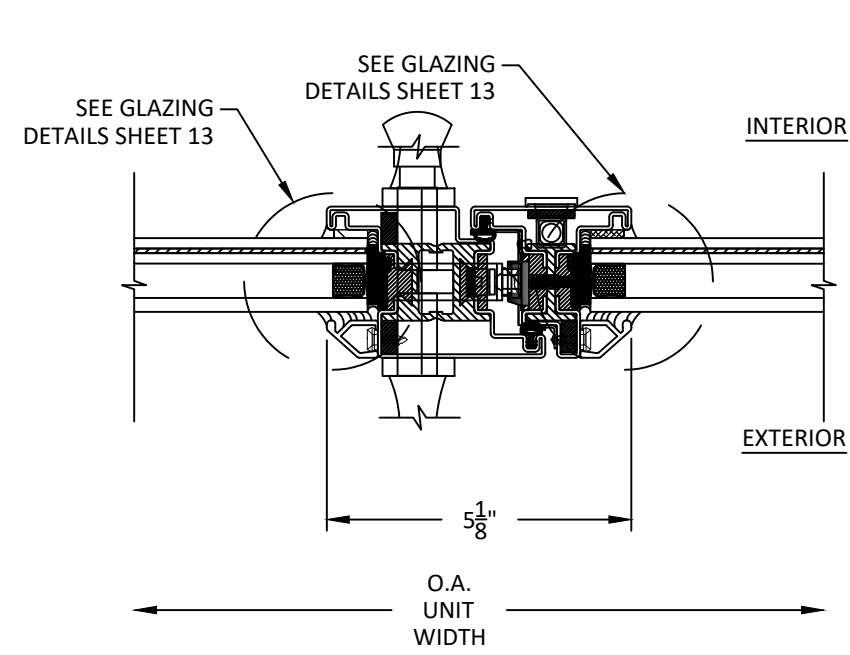
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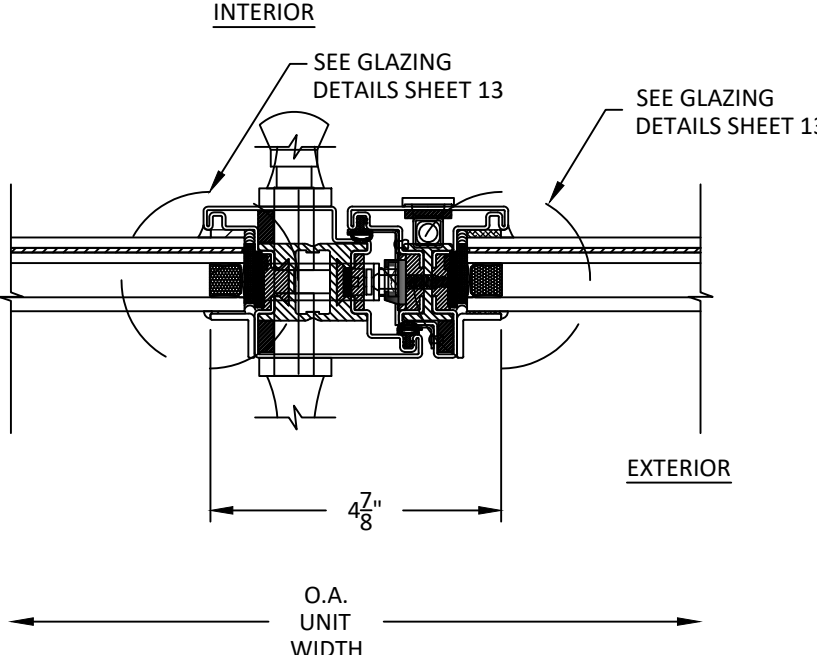
A
11
HORIZONTAL SECTION
JAMB - CONCRETE/ MASONRY
OUTSIDE GLAZED



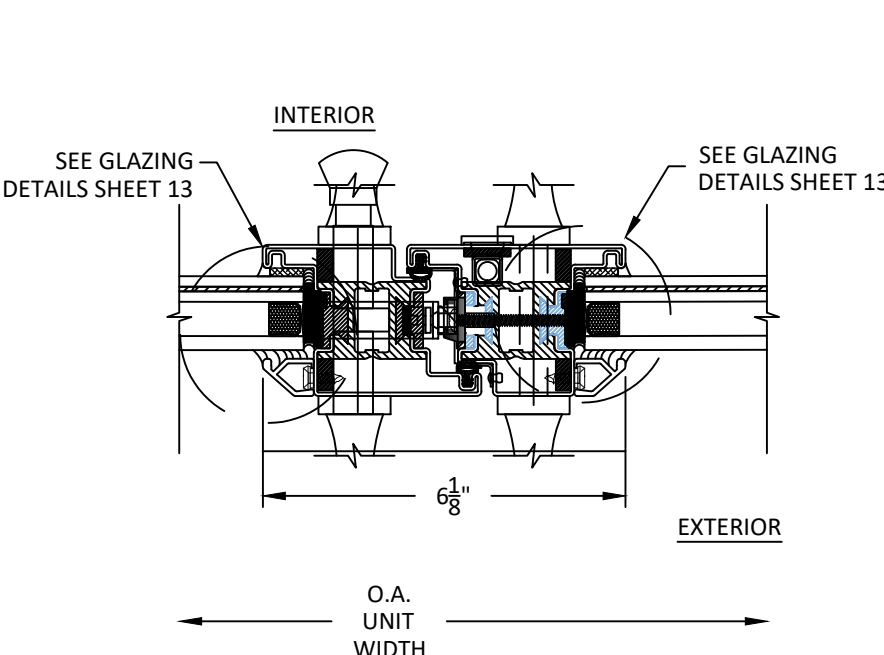
B
11
HORIZONTAL SECTION
JAMB - 2X WOOD BUCK
OUTSIDE GLAZED



C
11
HORIZONTAL SECTION
ASTRAGAL
OUTSIDE GLAZED

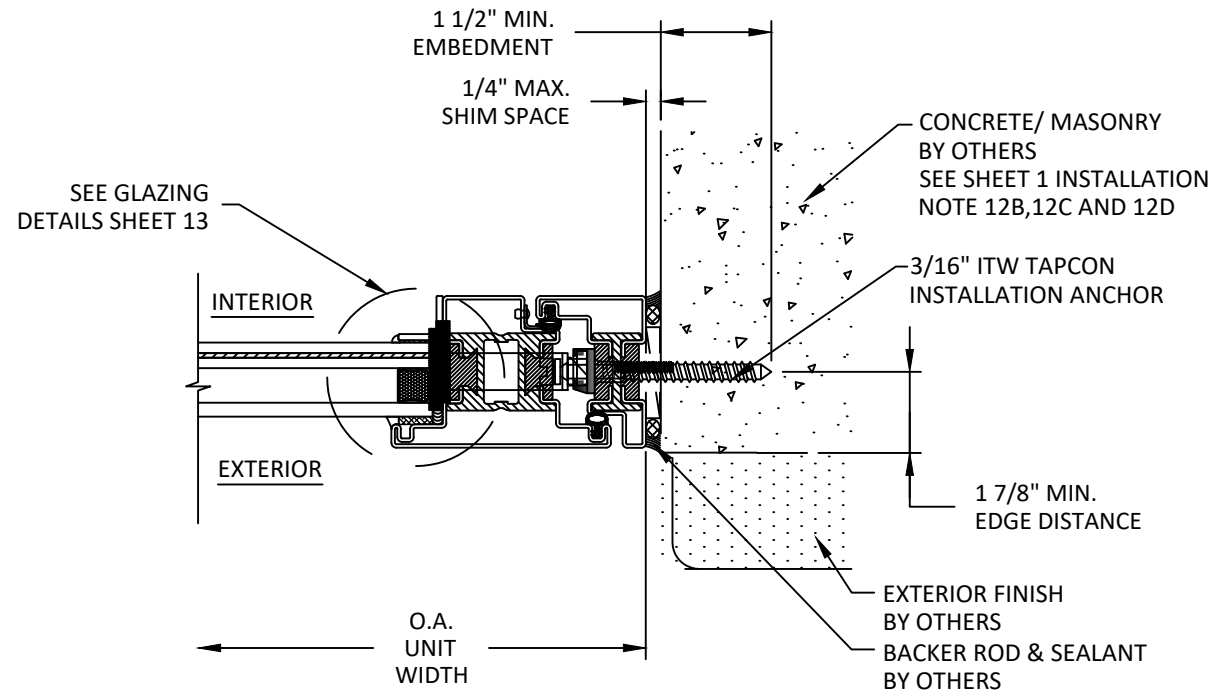


D
11
HORIZONTAL SECTION
ASTRAGAL
OUTSIDE GLAZED

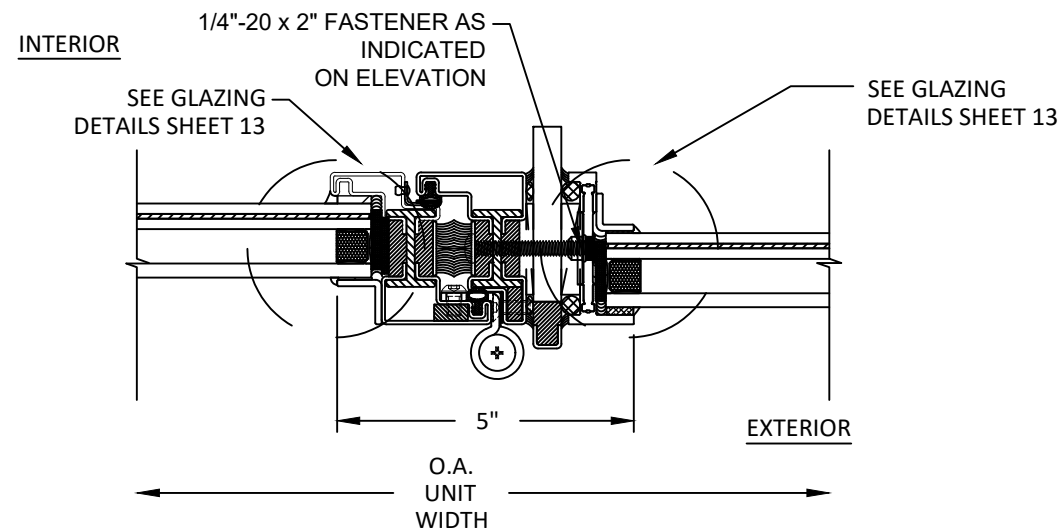


E
11
HORIZONTAL SECTION
ASTRAGAL
OUTSIDE GLAZED

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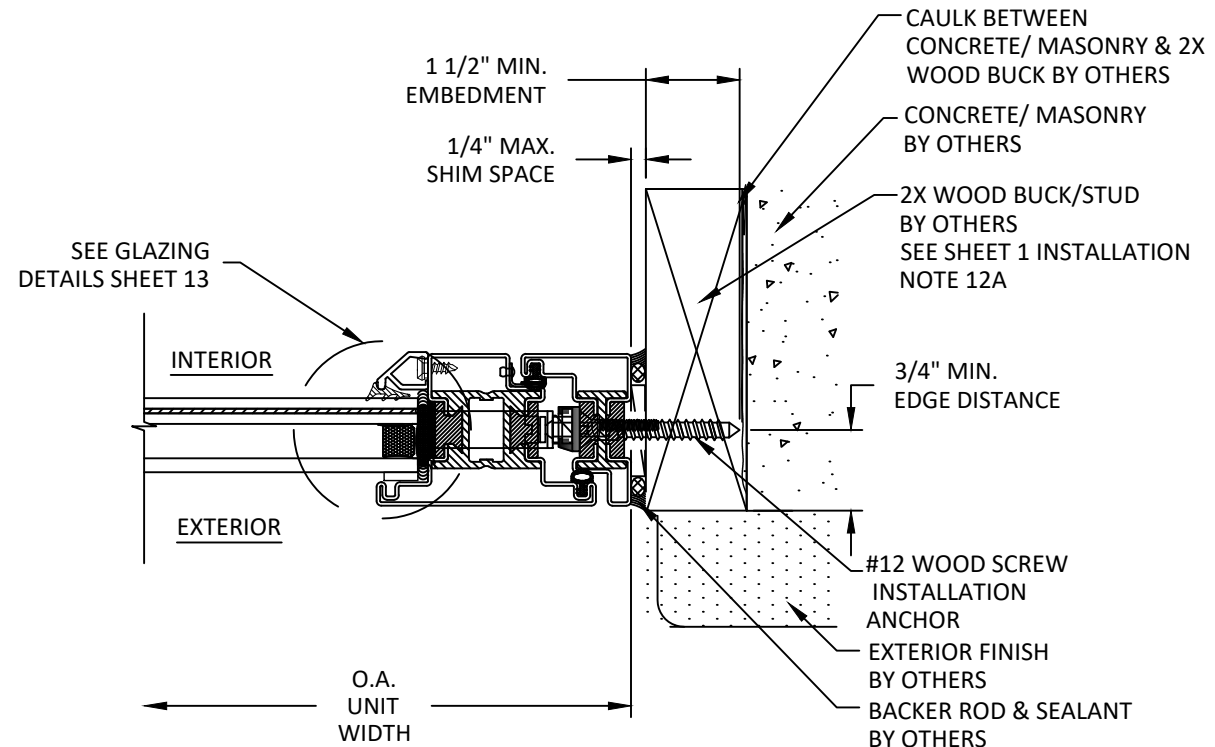


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12 **HORIZONTAL SECTION**
JAMB - CONCRETE/ MASONRY
INSIDE GLAZED

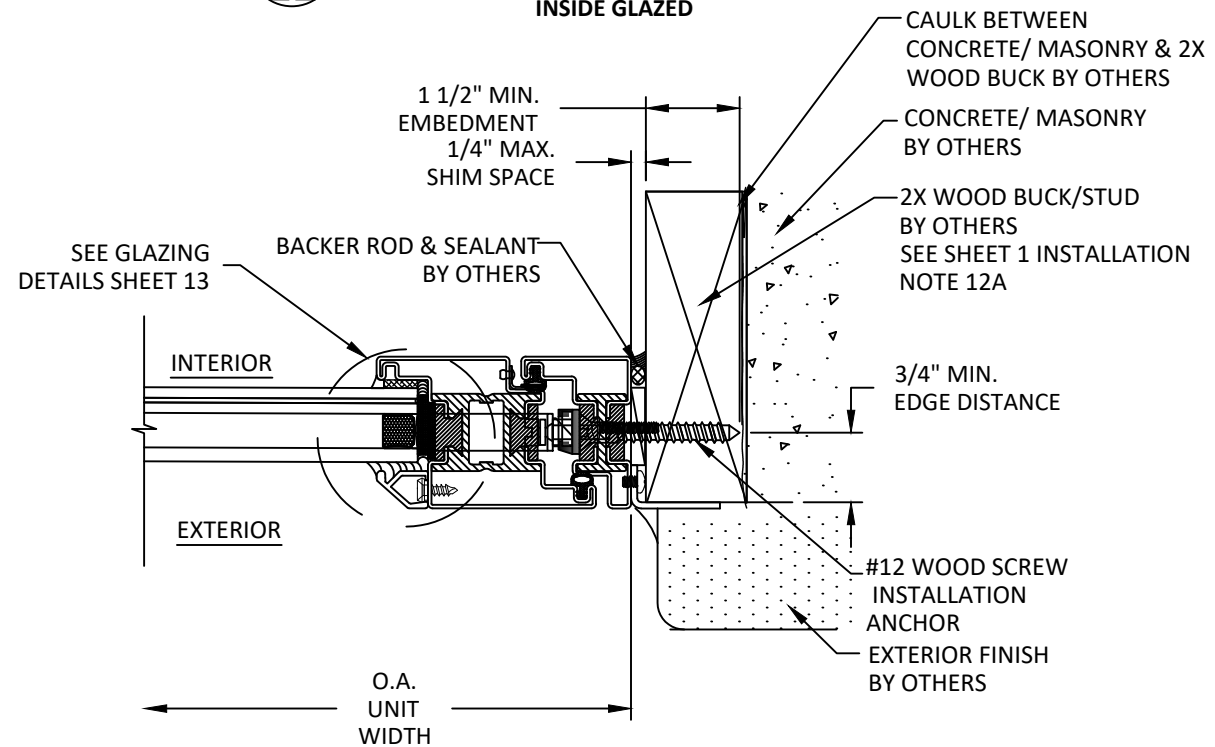


C
12 **HORIZONTAL SECTION**
MULLION
DOOR JAMB/FIXED WINDOW

NOTE:
SIDELITE UNIT UNDER
SEPARATE APPROVAL



B
12 **HORIZONTAL SECTION**
JAMB - 2X WOOD BUCK
INSIDE GLAZED



D
12 **HORIZONTAL SECTION**
FLANGE JAMB - 2X WOOD BUCK
OUTSIDE GLAZED



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428
PH: (845) 647-1900 FX: (845) 647-1494

TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

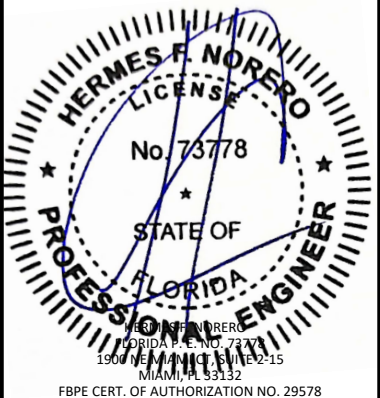
PREPARED BY:
BUILDING DROPS, INC.

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MIAMI, FL 33132
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SCALE: **NTS**

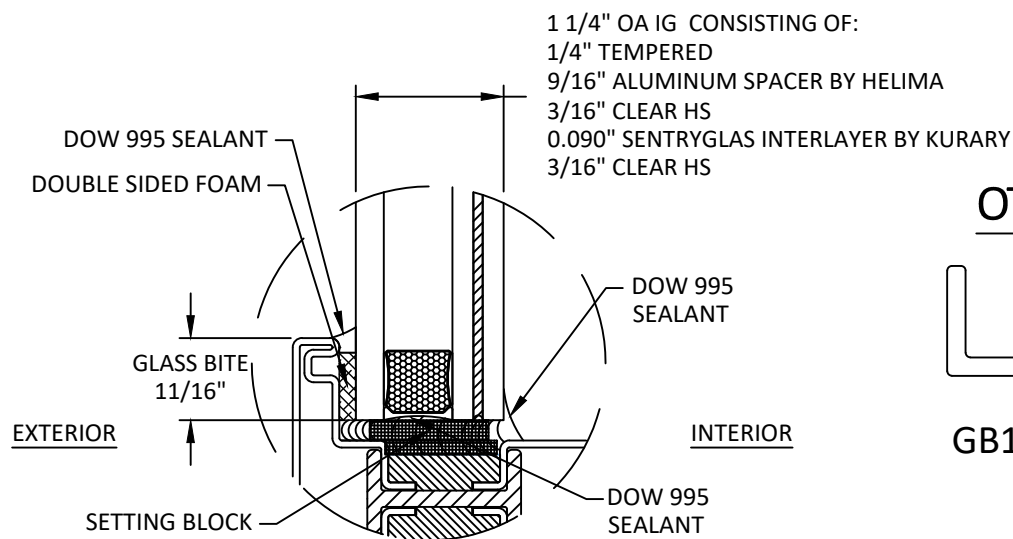
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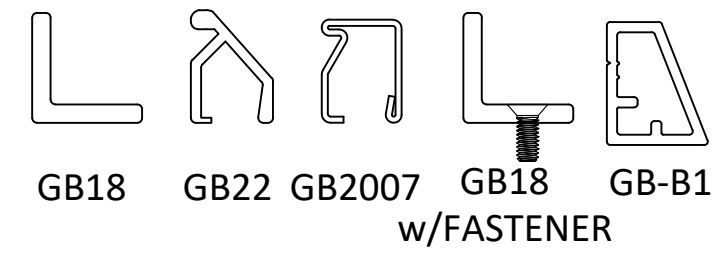
OF 13

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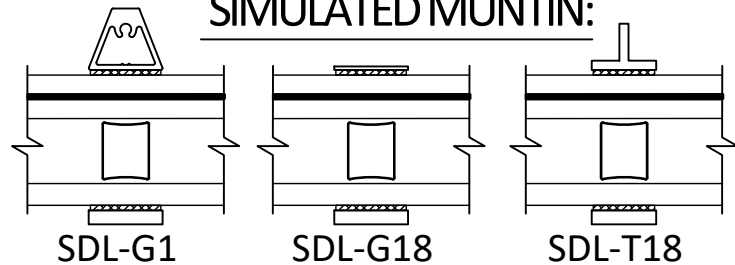


GLAZING DETAIL 1
DOOR INSIDE GLAZED

OTHER QUALIFIED GLAZING BEADS:

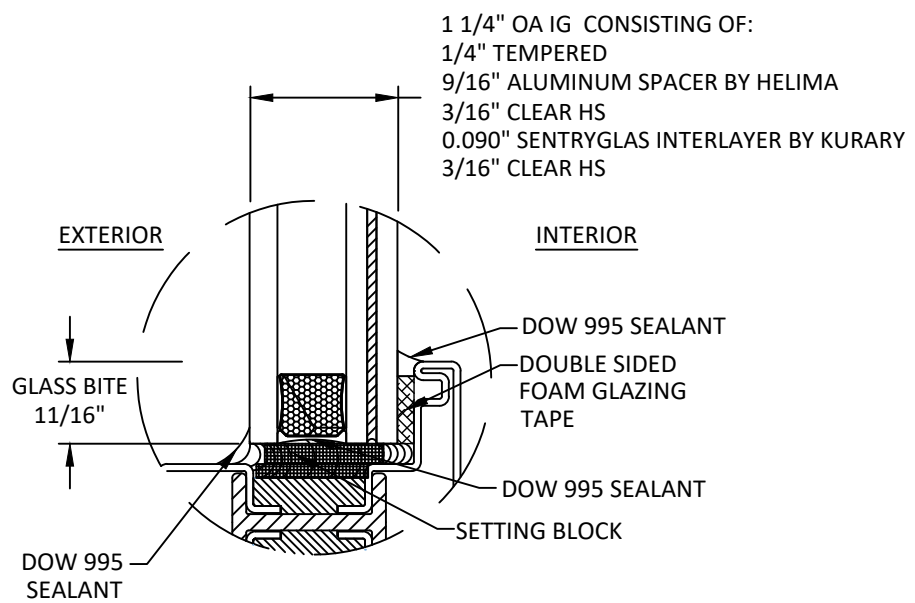


SIMULATED MUNTIN:

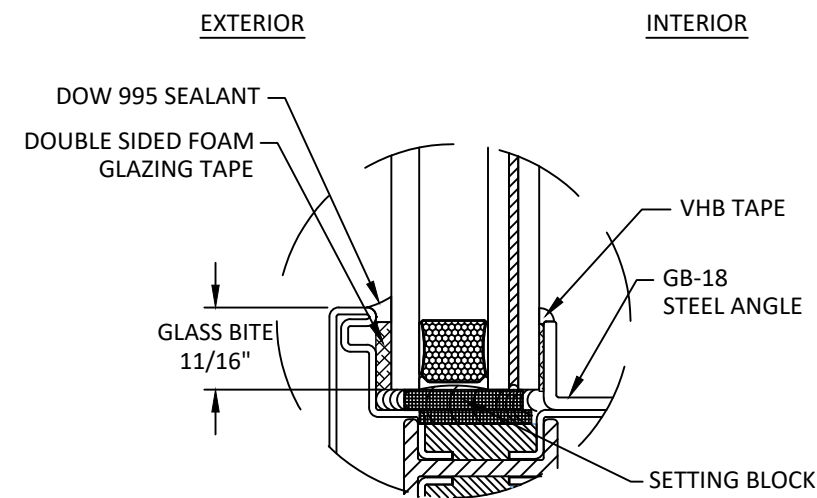


NOTE:

1. ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CURRENT FBC AND ASTM E 1300 GLASS CHART REQUIREMENTS.
2. SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER CH 24 OF THE CURRENT FBC.
3. GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT $\frac{1}{4}$ SPAN FROM CORNERS.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS SHOWN ON ELEVATIONS.

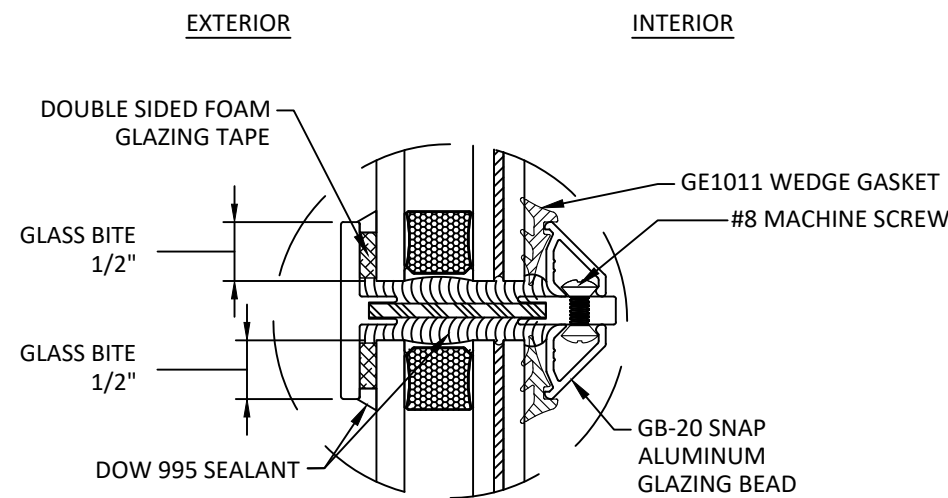


GLAZING DETAIL 2
DOOR OUTSIDE GLAZED



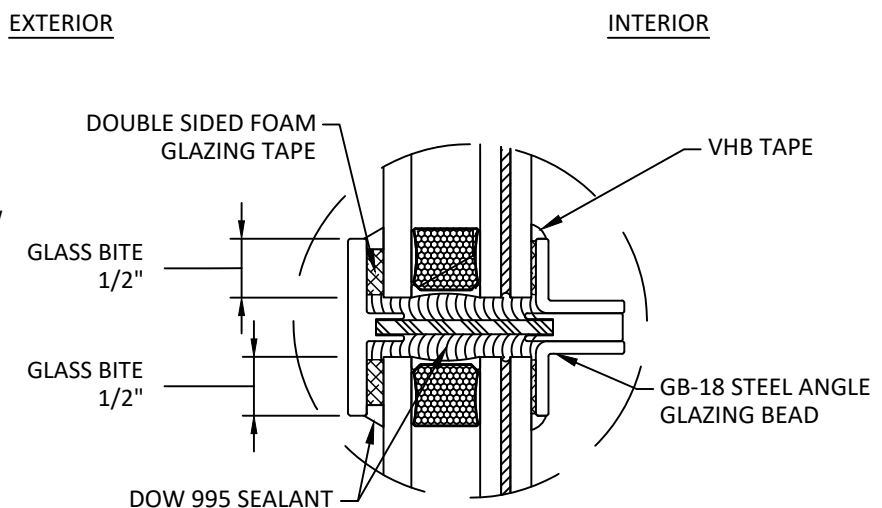
ALTERNATE GLAZING
DOOR INSIDE GLAZED

***NOTE:**
OUTSIDE GLAZED OPTION IS QUALIFIED.



ALTERNATE GLAZING
MID RAIL INSIDE GLAZED

***NOTE:**
OUTSIDE GLAZED OPTION IS QUALIFIED.



ALTERNATE GLAZING
MID RAIL INSIDE GLAZED

***NOTE:**
OUTSIDE GLAZED OPTION IS QUALIFIED.



OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL STREET
ELLENVILLE, NY 12428
PH: (845) 647-1900 FX: (845) 647-1494

TITLE: 6500i FLEX STAINLESS STEEL
OUTSWING FRENCH DOOR
(WZ3) (IMPACT)

GLAZING DETAILS

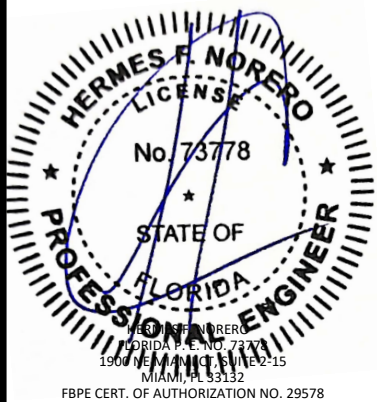
PREPARED BY:

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MIAMI, FL 33132
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OF 13