

FRONTLINE BUILDING PRODUCT

500 SERIES OUTSWING DOOR

(HVHZ)(IMPACT)



FRONTLINE BUILDING PRODUCTS
610 JENSEN DRIVE
MEDFORD, WI 54451
PH: (715) 748-2288

TITLE:
500 SERIES OUTSWING DOOR
(HVHZ) (IMPACT)

GENERAL NOTES AND
GLAZING DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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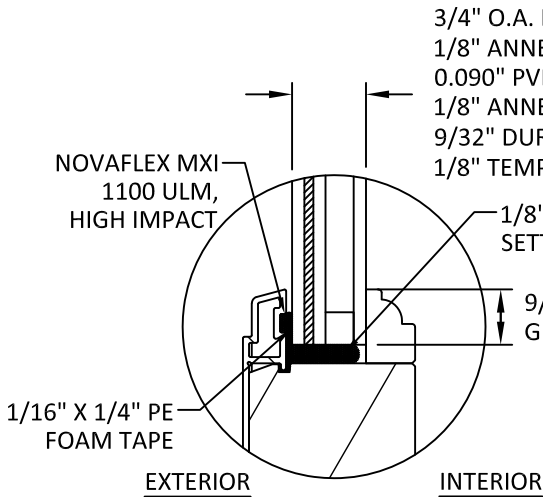
DESIGN RATING					
OVERALL SIZE			HARDWARE	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT	CONFIG.			
76"	96"	XX			
38"	96"	X			
76"	96"	OX			
111-1/8"	96"	OXX	SEE SHEET 2	+/- 55 PSF	LMI/SMI

*NOTE: SEE HARDWARE NOTE ON SHEET 2

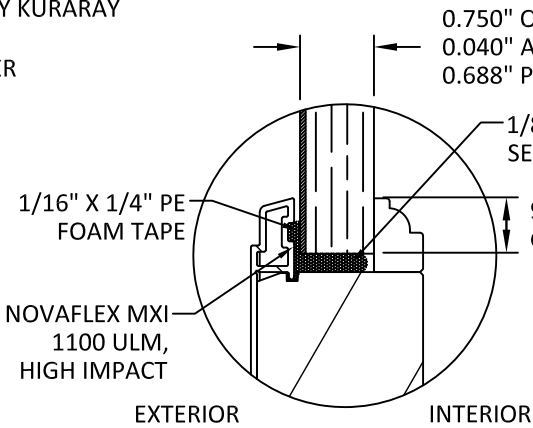
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8	ANCHOR DETAILS, SCHEDULE, AND INSTALLATION NOTES
9	PANEL INFILL COMBINATIONS

GENERAL NOTES:

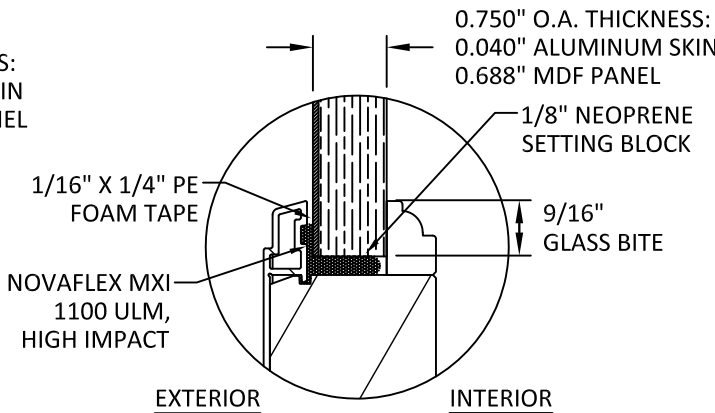
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL 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.
- 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.
- 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.
- DOOR FRAME MATERIAL: ALUMINUM (6063-T5) CLAD EXTERIOR OVER WOOD CORE
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.



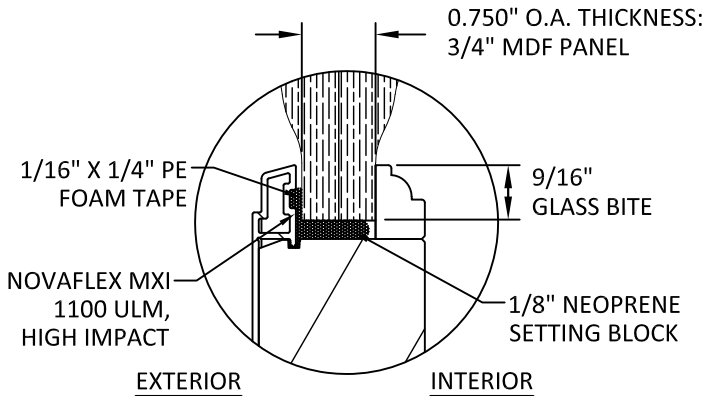
GLAZING DETAIL 1
3/4" IG GLAZING (G1)



GLAZING DETAIL 2
PLYWOOD INFILL PANEL (G2)



GLAZING DETAIL 3
MDF INFILL PANEL (G3)



GLAZING DETAIL 4
MDF RAISED INFILL PANEL (G3)

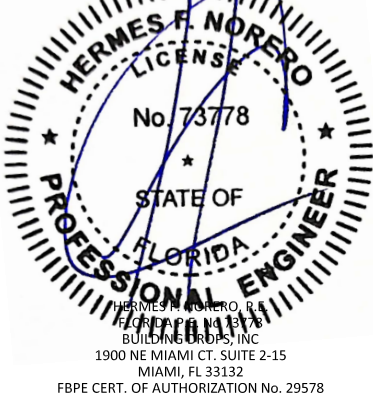
GLAZING NOTES:

- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.

REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26

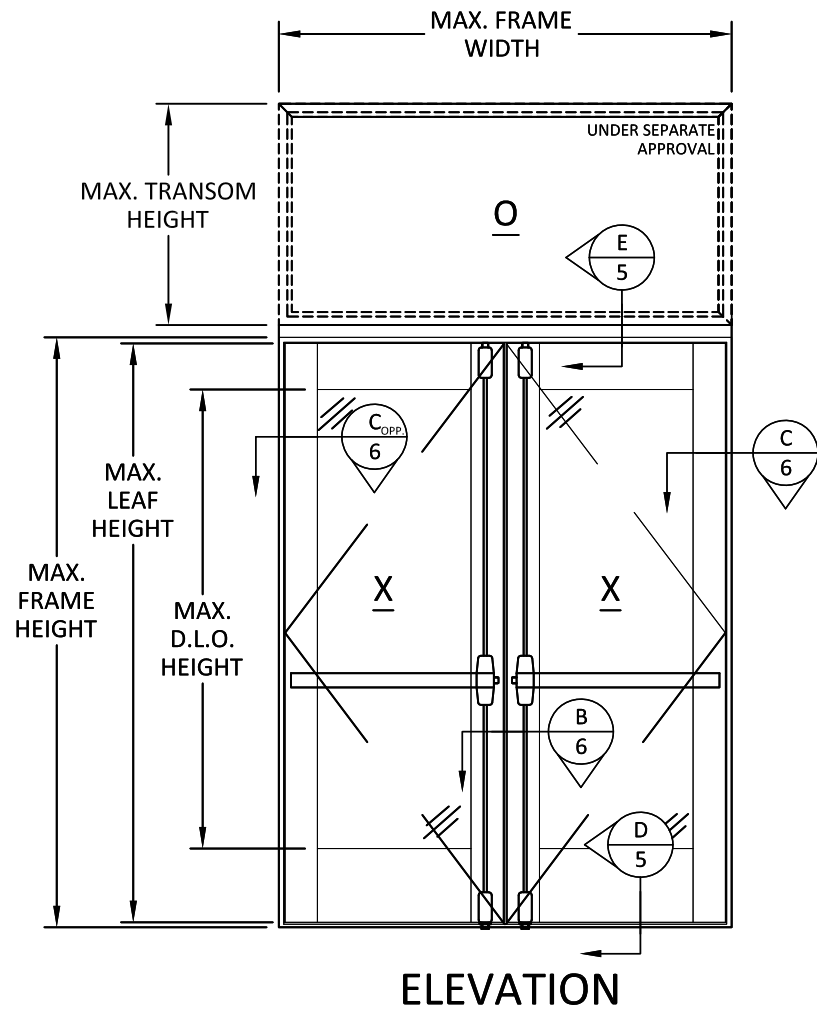
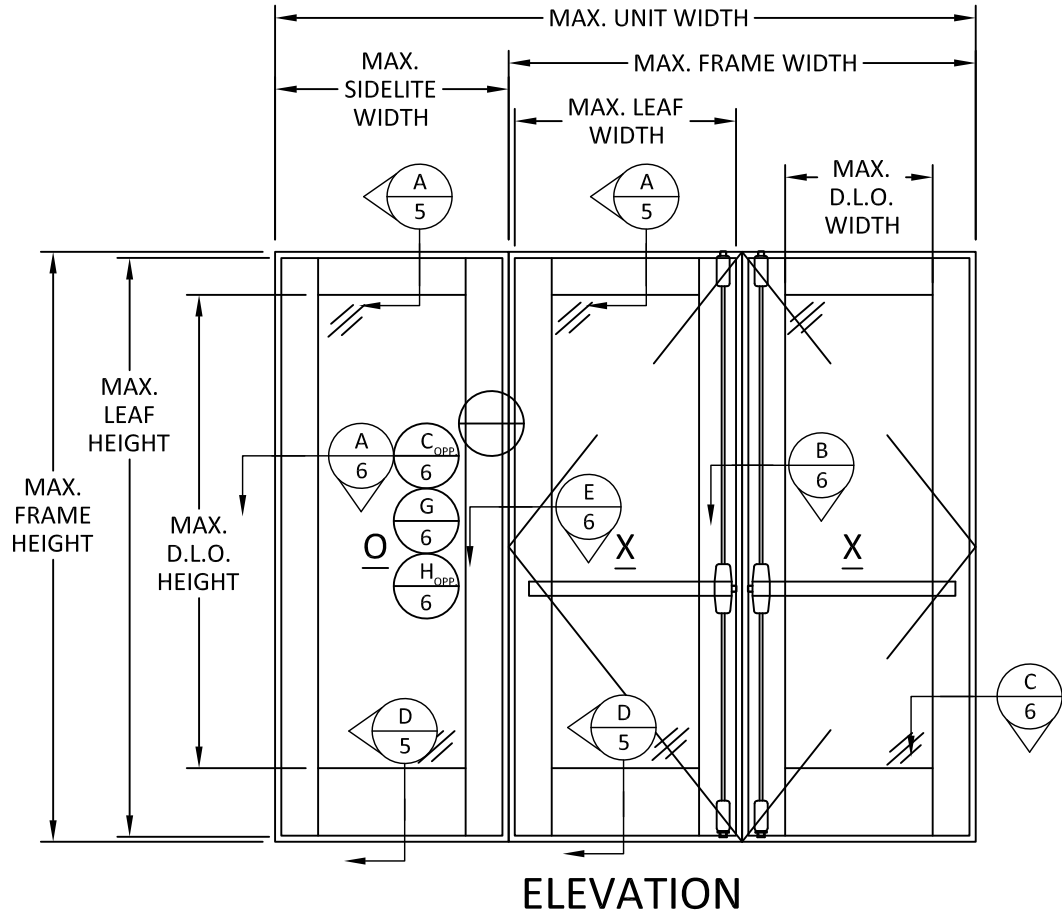
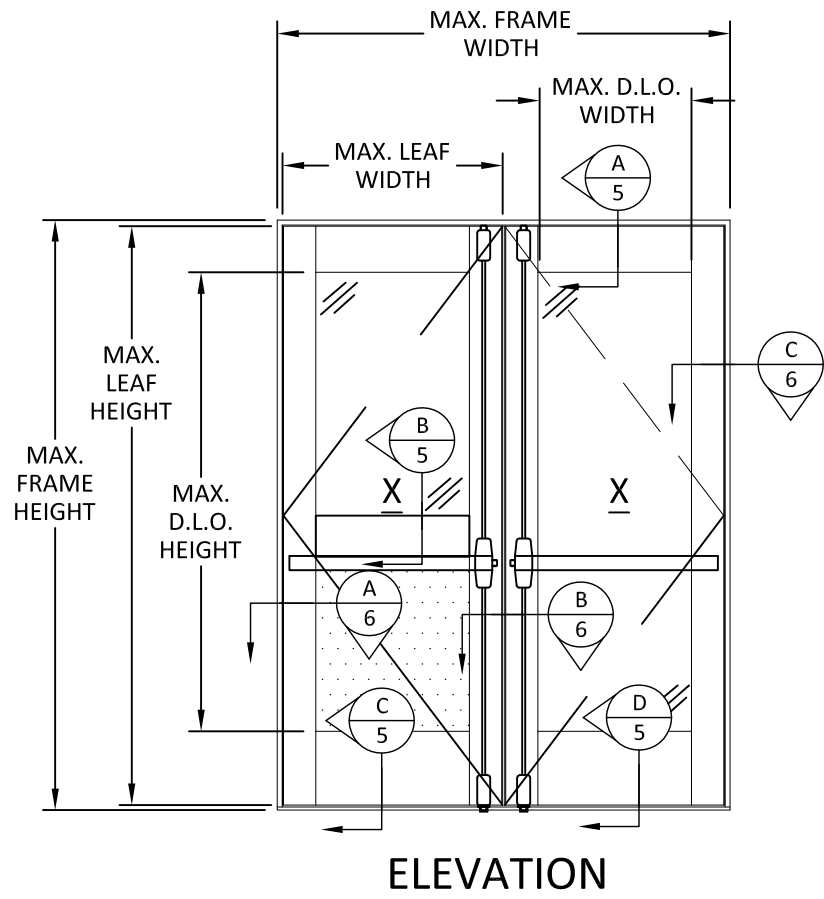
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.10.14 14:51:00 -0400



FL #:		FL47714
DATE:		07.21.2025
DWG. BY:	CHK. BY:	
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SCALE:		NTS
DWG. #:		FBP003
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DOOR LEGEND

LEGEND NOTE:

MAXIMUM HEIGHTS:

- STILE : FH - 1.8125"
- D.L.O.: FH - (20.1875" - MID-RAIL)

MAXIMUM WIDTHS:

- STILE: (FW/2) - 1.1875"
- D.L.O.: (FW/2) - 10.71875"

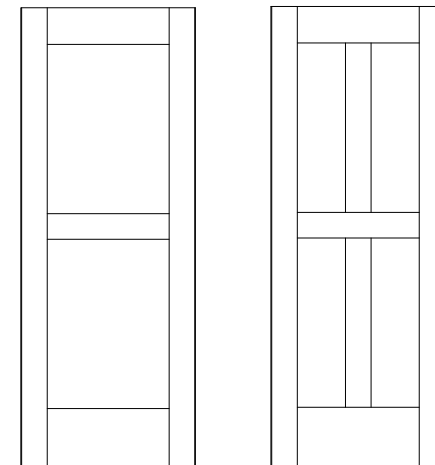
- FH = FRAME HEIGHT
- FW = FRAME WIDTH

TRANSOM UNIT UNDER SEPARATE PRODUCT APPROVAL.

- MAXIMUM TRANSOM SPAN: 76"
- MAXIMUM TRANSOM HEIGHT: 36"

- SINGLE DOOR ELEVATIONS ARE SIMILAR, (FW/2).

HARDWARE PACKAGES		
PACKAGE	HARDWARE	DESIGN PRESSURE (PSF)
A	HH9954 MULLION + 98/9957 RIM EXIT DEVICE WITH SVR AND STRIKES: TOP 299F, MIDDLE 499F, BOTTOM 304L	+/- 55
B	HH9954 OR 4954 MULLION + 98/99EO RIM EXIT DEVICE AND 299 STRIKE WITH SHOOT BOLTS	+/- 55



NOTE: SEE SHEET 9, FOR ALL POSSIBLE PANEL INFILL/GLAZING COMBINATIONS



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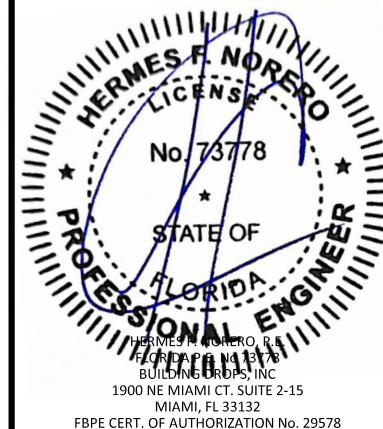
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ELEVATIONS

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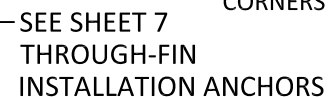
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CHK. BY: HFN

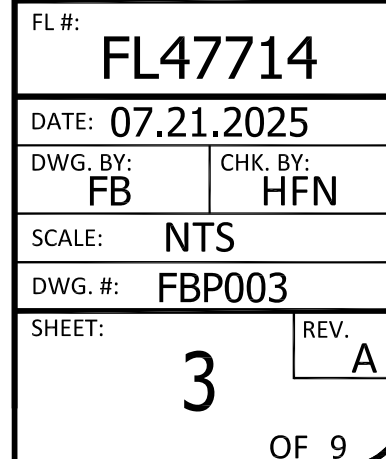
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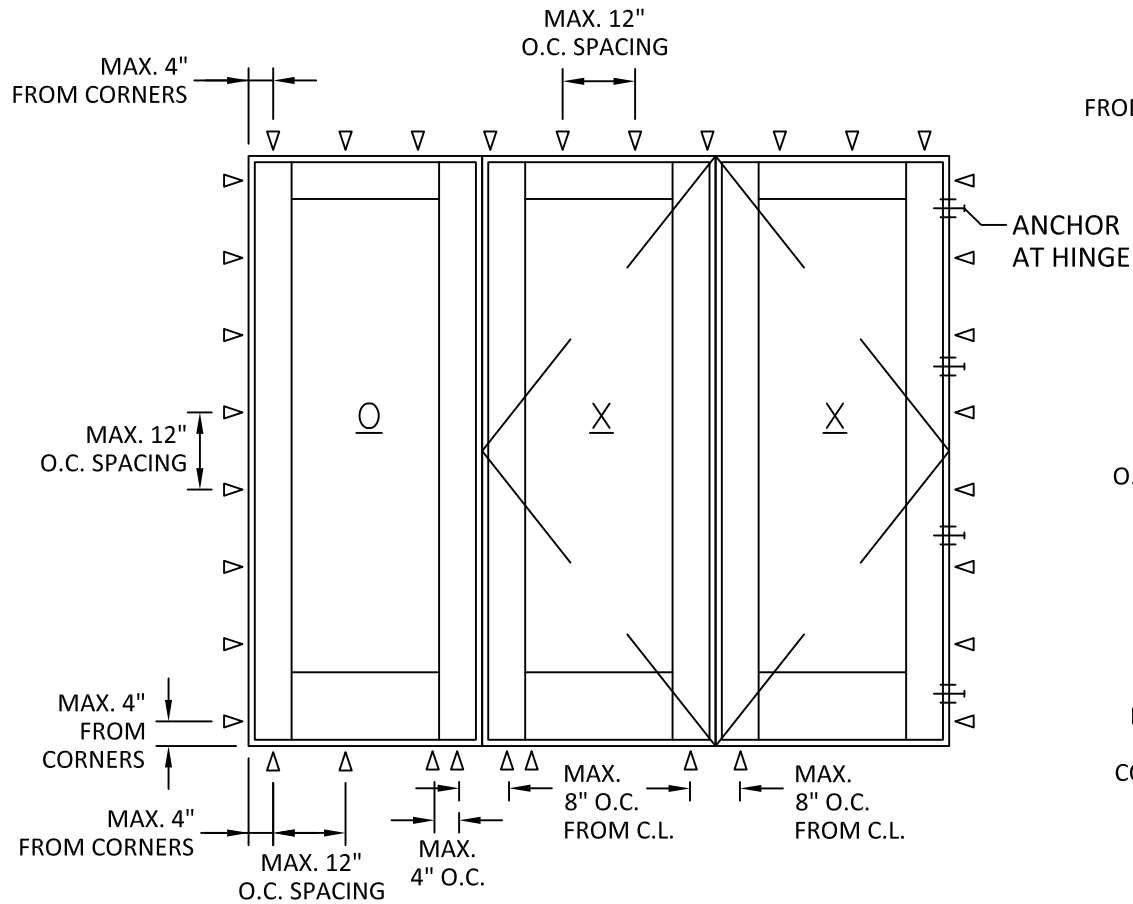
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REV. A



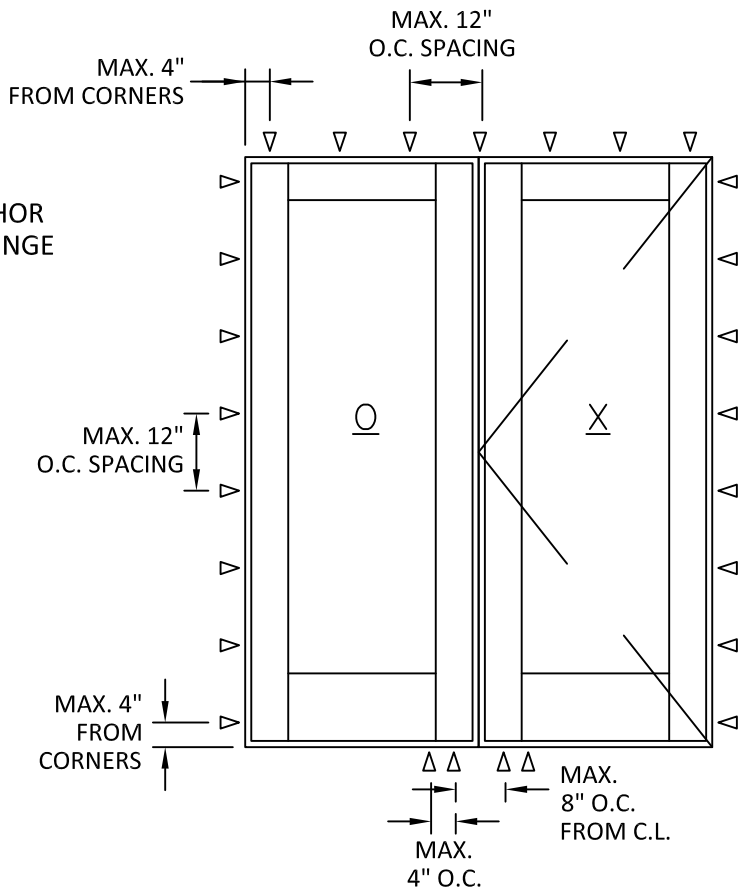
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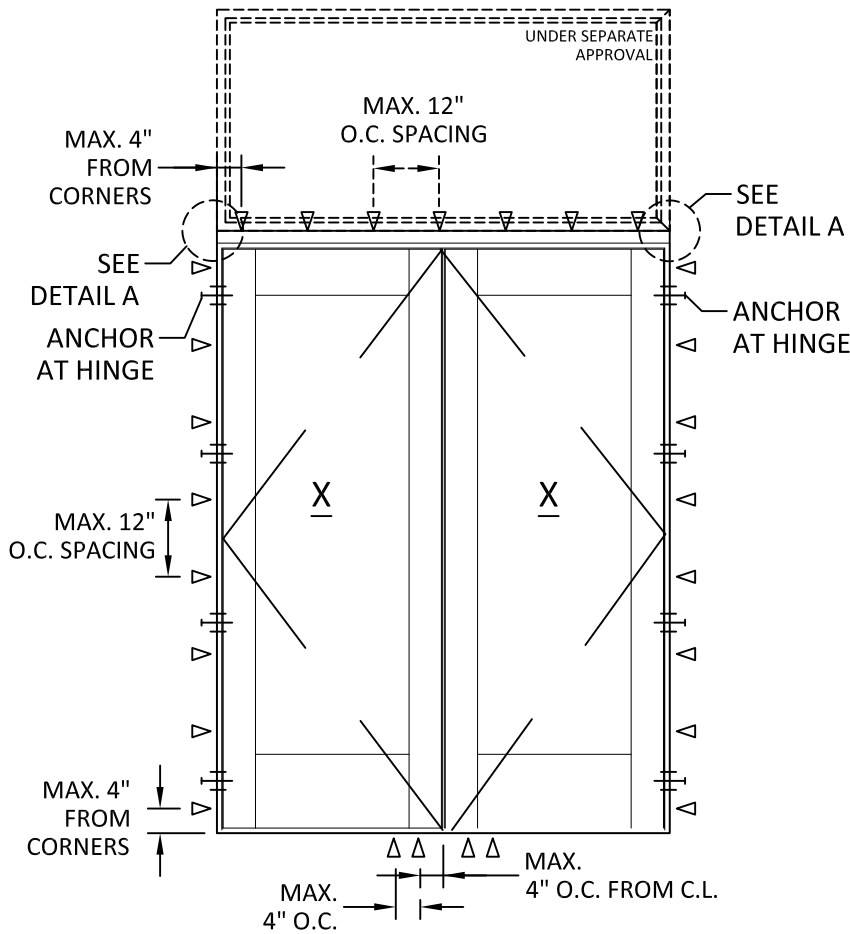
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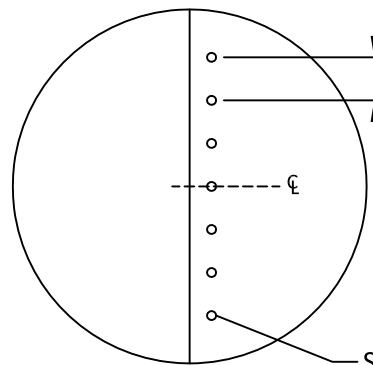
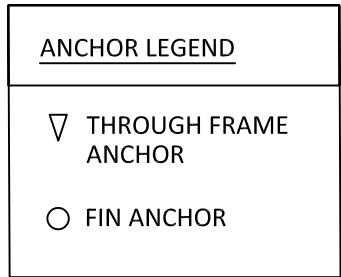
ANCHOR LAYOUT



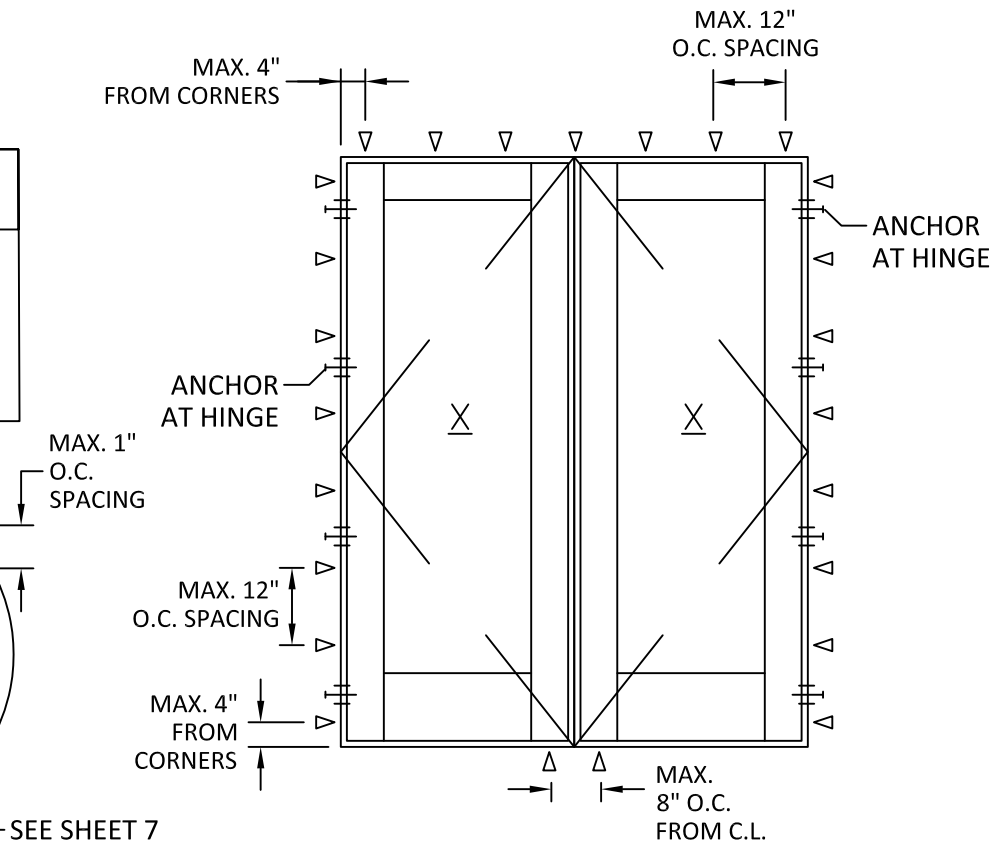
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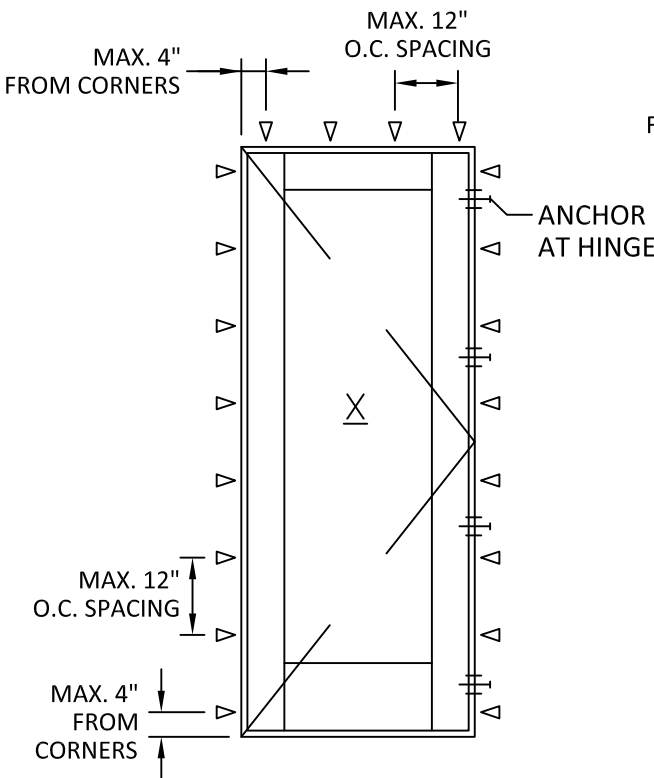
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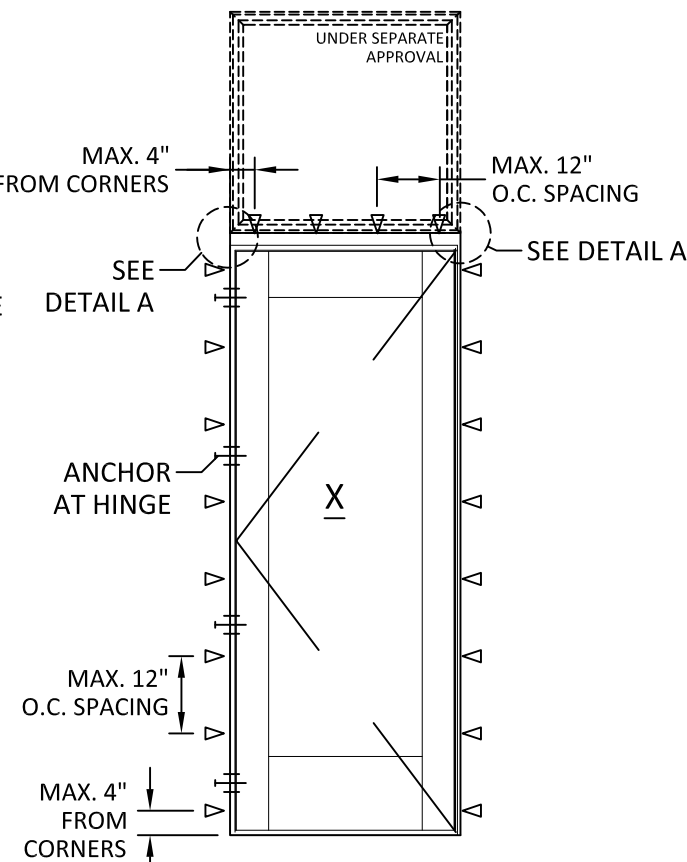
DETAIL A



ANCHOR LAYOUT



ANCHOR LAYOUT



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ANCHOR LAYOUTS

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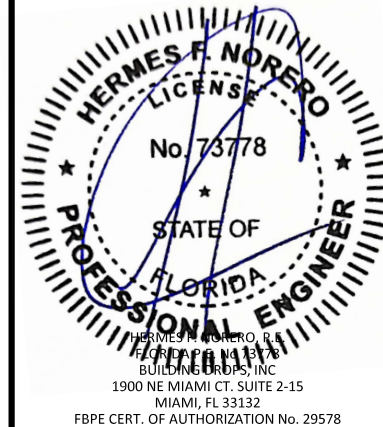
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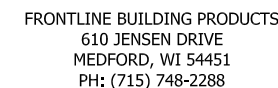


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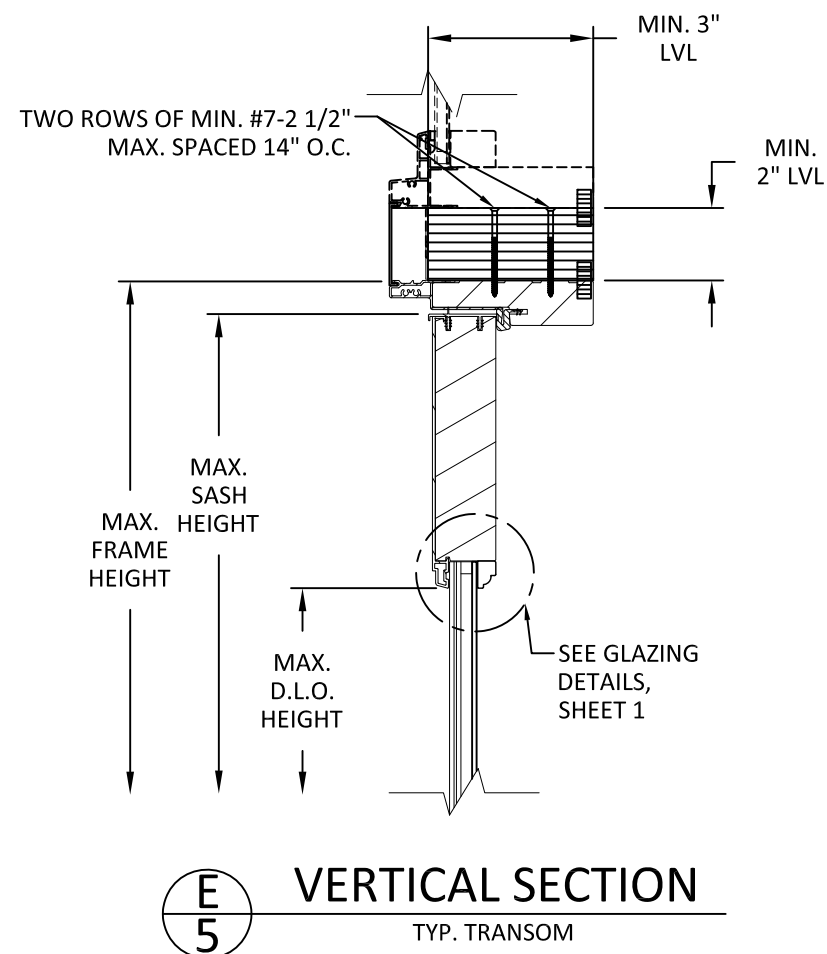
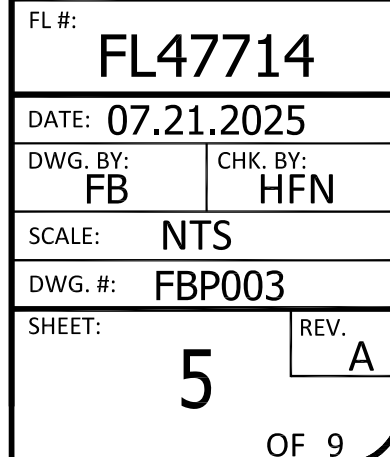


VERTICAL SECTIONS

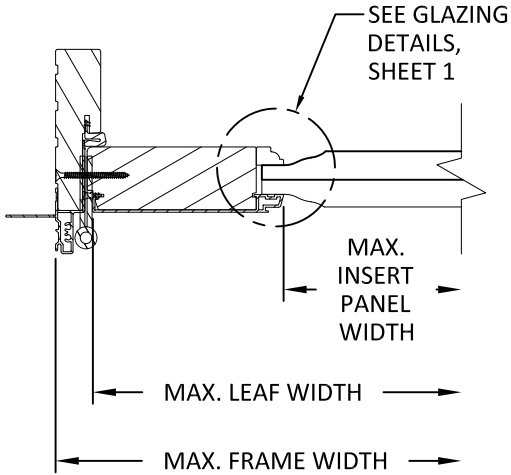
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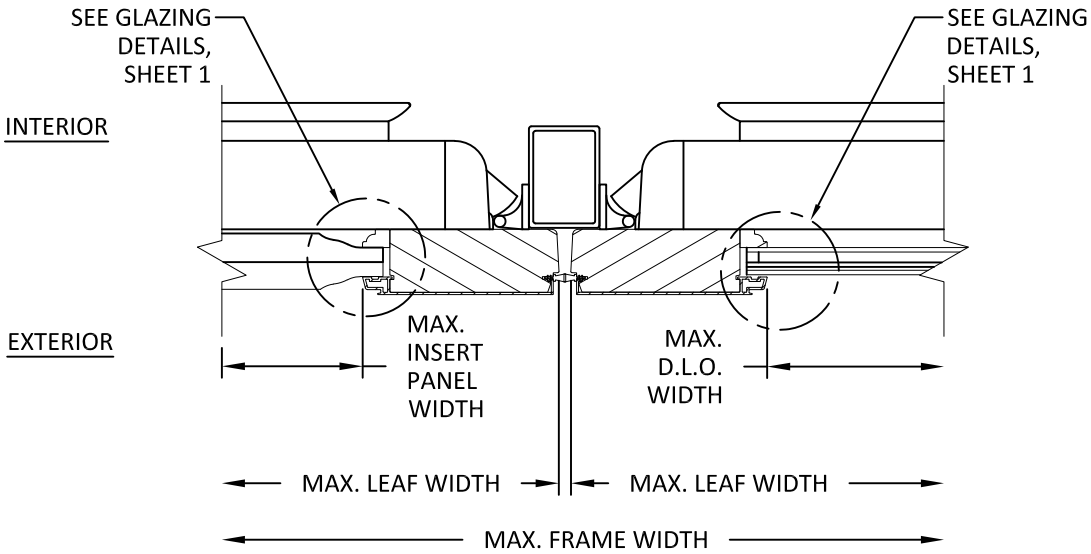
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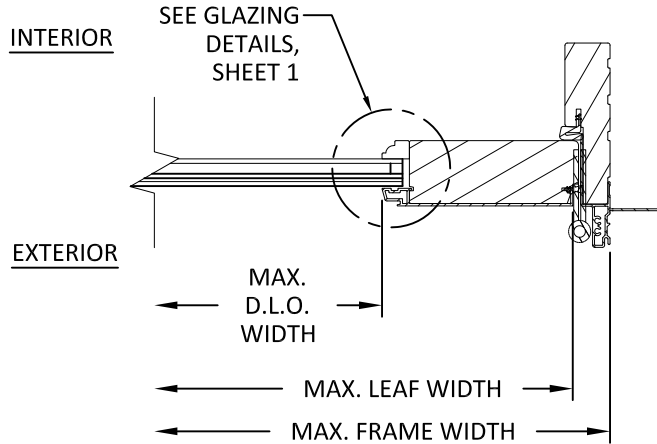
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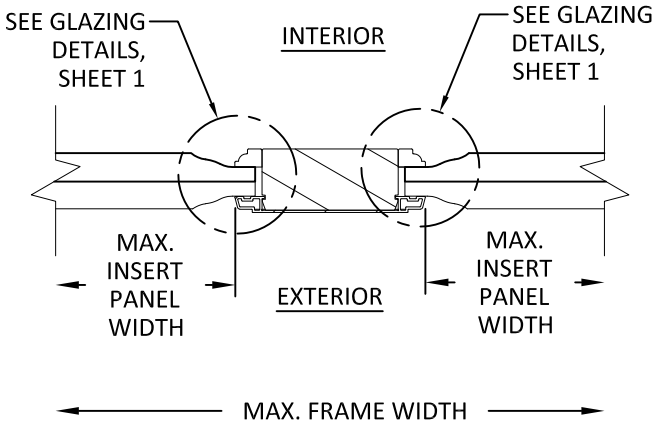
A HORIZONTAL SECTION
6 TYP. JAMB



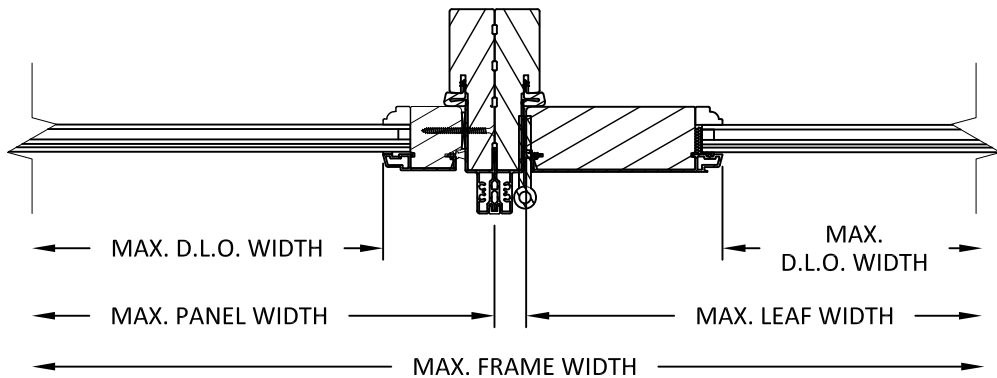
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6 TYP. ASTRAGAL W/ EXIT DEVICE MULLION



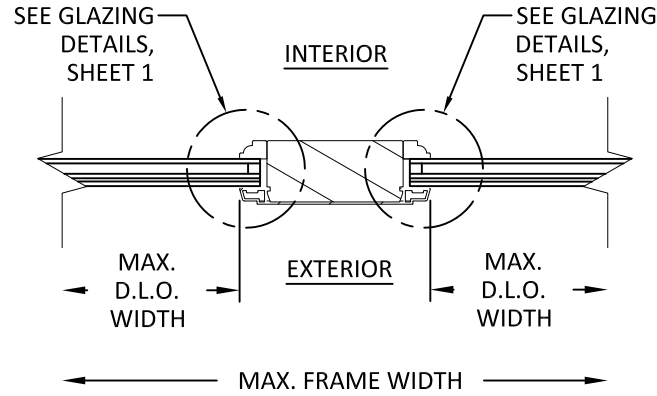
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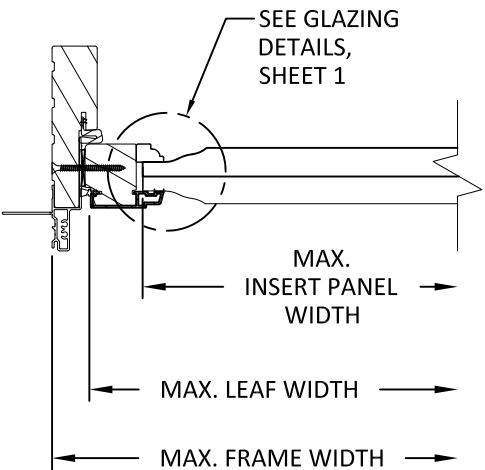
D HORIZONTAL SECTION
6 TYP. MID-STILE



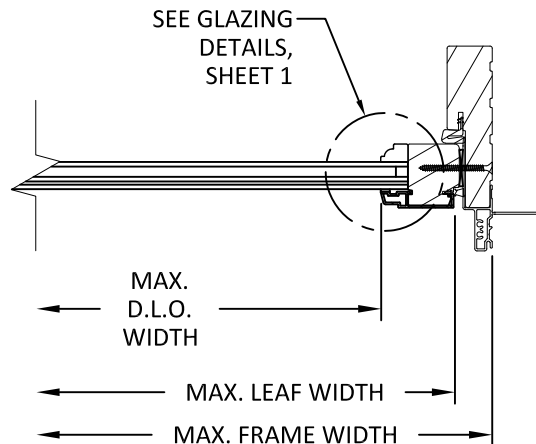
E HORIZONTAL SECTION
6 TYP. MULLION JAMB TO JAMB



F HORIZONTAL SECTION
6 TYP. MID-STILE



G HORIZONTAL SECTION
6 TYP. JAMB



H HORIZONTAL SECTION
6 TYP. JAMB



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HORIZONTAL SECTIONS

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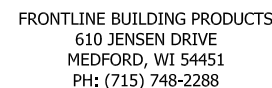


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ANCHOR SCHEDULE - 500 SERIES				
INST. METHOD	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FIN	#10 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	0.75"
	#10 SELF-TAPPING SCREW"	MIN. 18 GA. STEEL (33KSI)/ ALUMINUM 1/8" MIN. THK. 6063-T5	THREE (3) THREADS MIN.. PENETRATION BEYOND METAL FACE	0.50"
THROUGH FRAME	#10 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	0.75"
	#10 SELF-TAPPING SCREW"	MIN. 18 GA. STEEL (33KSI)/ ALUMINUM 1/8" MIN. THK. 6063-T5	THREE (3) THREADS MIN.. PENETRATION BEYOND METAL FACE	0.50"
	3/16" ITW TAPCON	CONCRETE: f'c = 3000 PSI	1.50"	2.00"
	3/16" ITW TAPCON	MASONRY : CMU PER ASTM-C90, MIN. 2000 PSI	1.50"	2.50"

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 3.
2. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ± 1.000 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.
3. 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.
4. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
5. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING:
 - 5.1. 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).
 - 5.2. 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).
6. 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.
7. 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.
8. 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.



ANCHOR DETAILS, SCHEDULE AND INSTALLATION NOTES

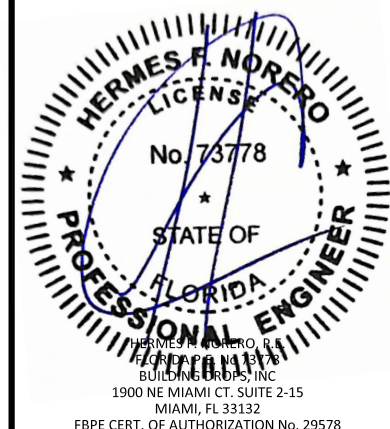
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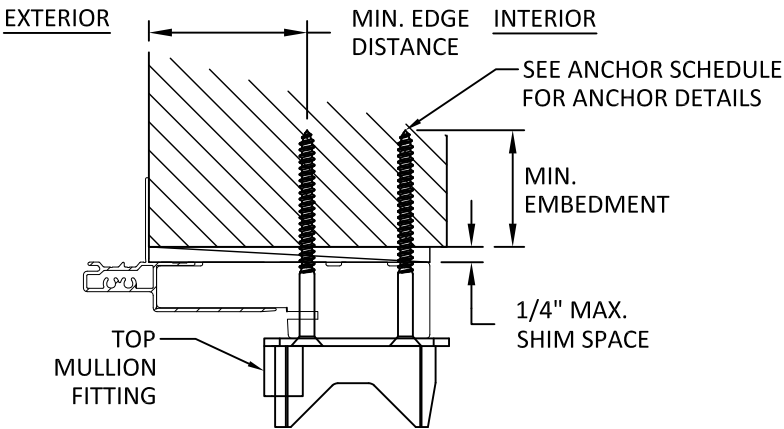
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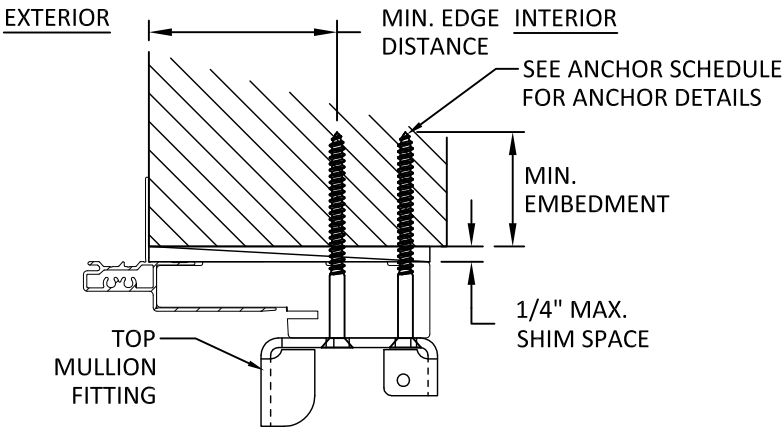
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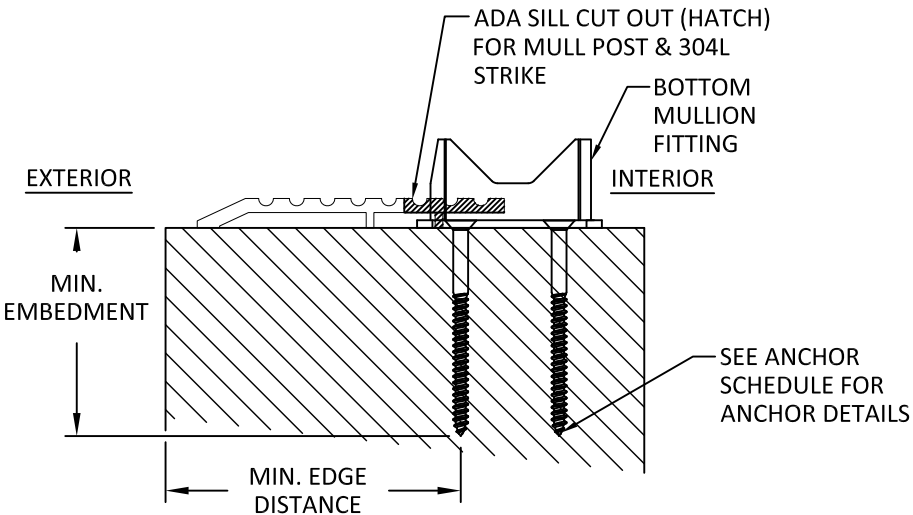
SHEET:	REV.
7	A



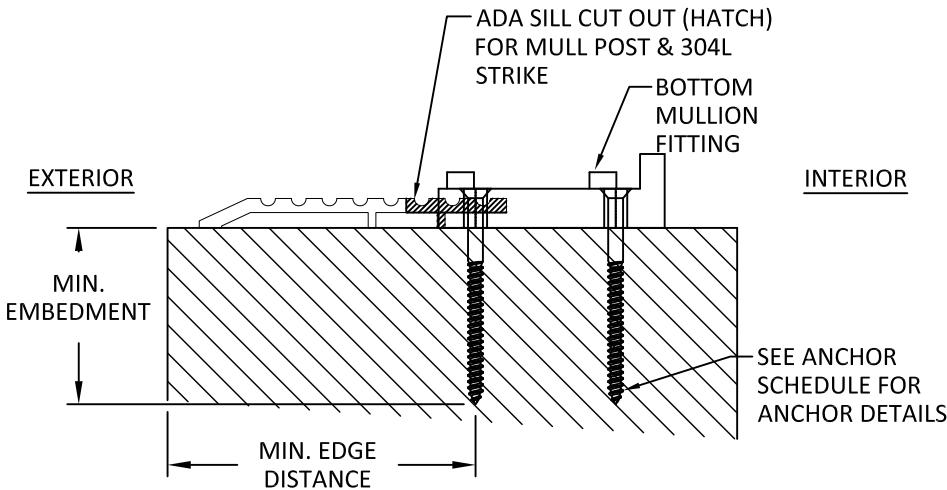
A
8 VERTICAL SECTION
HH9954 MULLION TYP. HEAD INSTALLATION
THROUGH FRAME - MULLION



B
8 VERTICAL SECTION
4954 MULLION TYP. HEAD INSTALLATION
THROUGH FRAME - MULLION



C
8 VERTICAL SECTION
HH9954 MULLION TYP. SILL INSTALLATION
THROUGH FRAME - MULLION



D
8 VERTICAL SECTION
4954 MULLION TYP. SILL INSTALLATION
THROUGH FRAME - MULLION

ANCHOR SCHEDULE - 500 SERIES				
INST. METHOD	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME - MULLION	#14 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	0.75"
	#14 SELF-TAPPING SCREW"	MIN. 18 GA. STEEL (33KSI)/ ALUMINUM 1/8" MIN. THK. 6063-T5	THREE (3) THREADS MIN.. PENETRATION BEYOND METAL FACE	0.50"
	1/4" ITW TAPCON	CONCRETE: f'c = 3000 PSI	1.50"	2.25"

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 3.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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 1/4 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:
 - 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).
- 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.



FRONTLINE BUILDING PRODUCTS
610 JENSEN DRIVE
MEDFORD, WI 54451
PH: (715) 748-2288

TITLE:
500 SERIES OUTSWING DOOR
(HVHZ) (IMPACT)

ANCHOR DETAILS, SCHEDULE
AND INSTALLATION NOTES

PREPARED BY:

BUILDING DROPS, INC.

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MIAMI, FL 33132
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FAX: (954)744-4738
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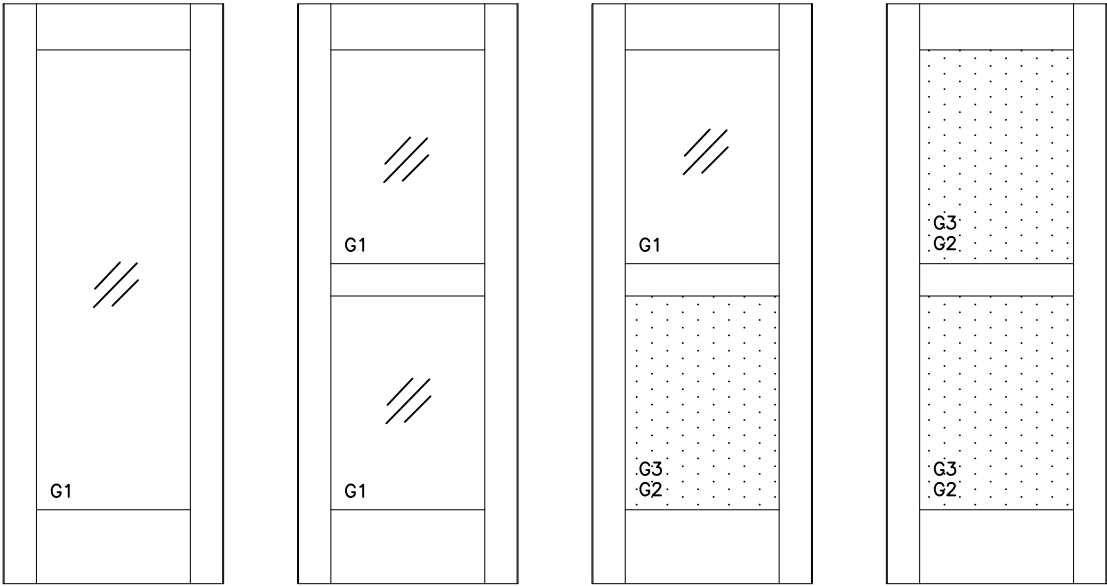
REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

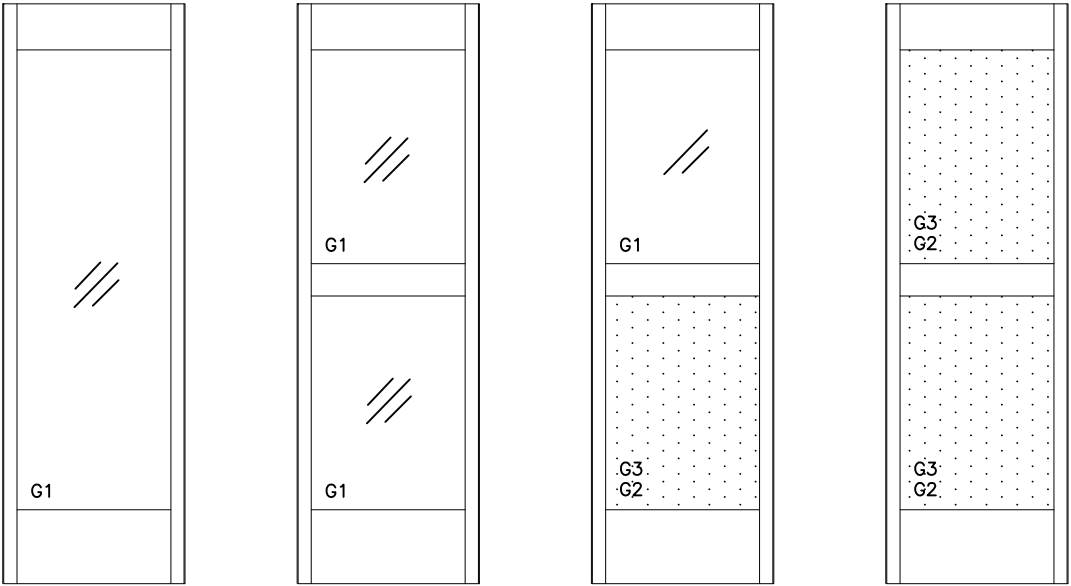


FL #:	FL47714
DATE:	07.21.2025
DWG. BY:	FB
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	FBP003
SHEET:	8
REV.	A

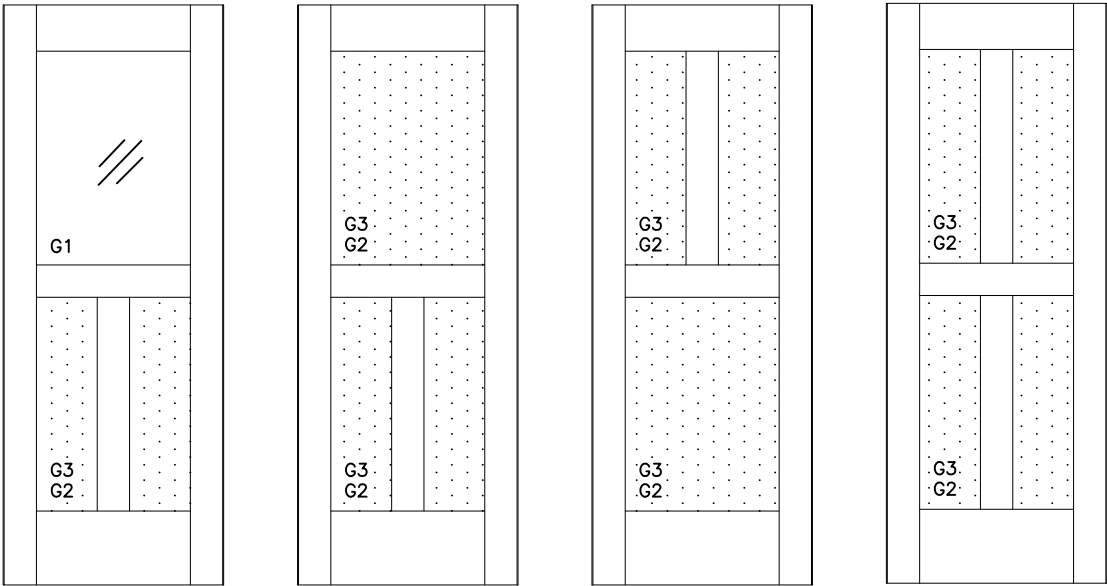
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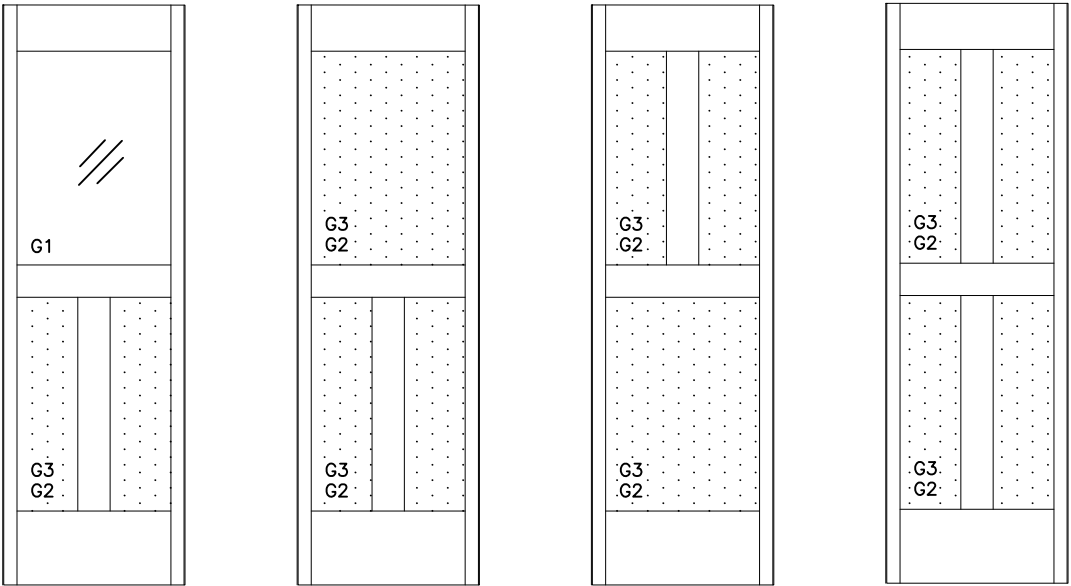
OPERABLE PANELS AND SIDELITES,
SEE GLAZING DETAILS ON SHEET 1



SIDELITES ONLY,
SEE GLAZING DETAILS ON SHEET 1



OPERABLE PANELS AND SIDELITES,
SEE GLAZING DETAILS ON SHEET 1



SIDELITES ONLY,
SEE GLAZING DETAILS ON SHEET 1



FRONTLINE BUILDING PRODUCTS
610 JENSEN DRIVE
MEDFORD, WI 54451
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TITLE:
500 SERIES OUTSWING DOOR
(HVHZ) (IMPACT)

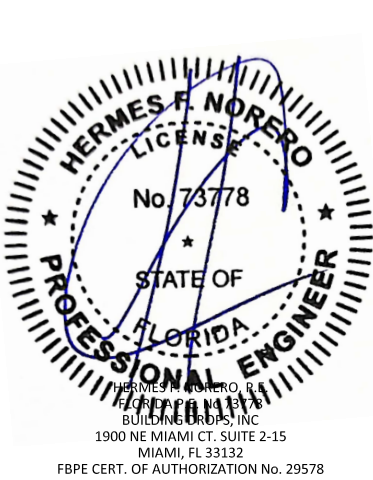
PANEL INFILL COMBINATIONS

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SCALE: **NTS**

DWG. #: **FBP003**

SHEET:
9

REV. **A**

OF 9