

INSTALLATION NOTES:

1. TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION 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 1/4 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 #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT.
6. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH ITW TAPCONS OR 3/16" ELCO ULTRACONS OF SUFFICIENT LENGTH TO ACHIEVE 1-3/4 INCH MINIMUM EMBEDMENT.
7. FOR INSTALLATION INTO METAL STUD, USE #10 GR.5 SELF TAPPING SCREW OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS 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.
10. FOR 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. 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.

D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

E. STEEL- MINIMUM WALL THICKNESS OF 54 MILS(1/8" MIN Fy=36 KSI) WHEN THROUGH GUSSET INSTALLATION.

F. ALUMINUM - 1/4" MINIMUM THICKNESS (6063-T5).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- AAMA/WDMA/CSA 101/I.S.2/A440-17
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY 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.
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 REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR FRAME MATERIAL: ALUMINUM 6063-T6.
7. GLASS THICKNESS & TYPE MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 8 FOR GLAZING DETAIL.
8. DESIGNATIONS “X” AND “O” STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL
9. APPROVED CONFIGURATIONS:

2T- XO, OX, XX, OXO, XXO, OXX, XOX, OXXX, XXXO, OXXO, XXXX

3T- XXX, XXO, OXX, OXXX, XXXO

ANCHOR SCHEDULE									
INSTALLATION METHOD	ANCHOR TYPE	QTY PER LOCATION	SUBSTRATE	EMBEDMENT	MIN O.C. SPACING	MIN EDGE DISTANCE	MAX HEAD/ SILL O.C. SPACING	MAX JAMB O.C. SPACING	CORNER DISTANCE
THROUGH FRAME (FOR SILL RISER OR NO SILL RISER)	3/16" ITW TAPCONS	2	CONCRETE/ MASONRY	1-3/4"	1-1/2"	1"	16"	20-3/4"	6"
	3/16" ELCO ULTRACONS	2	CONCRETE/ MASONRY	1-3/4"	1-1/8"	1"	16"	20-3/4"	6"
	#10 WOOD SCREWS	2	WOOD FRAME	1-1/2"	3/4"	3/4"	16"	20-3/4"	6"
	#10 TEK SCREW	2	STEEL/ALUMINUM STUD	3 THREADS OF PENETRATION	3/4"	3/4"	16"	20-3/4"	6"

PLY GEM WINDOWS

BUILDER SERIES 4780 PATIO DOOR

(NON-HVHZ)(NON-IMPACT)

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATIONS
3	ELEVATIONS
4	ANCHOR LAYOUTS
5	ANCHOR LAYOUTS
6	VERTICAL SECTIONS
7	VERTICAL SECTIONS
8	HORIZONTAL SECTIONS & GLAZING DETAIL
9	HORIZONTAL SECTIONS
10	HORIZONTAL SECTIONS

DESIGN PRESSURE RATING			
MAX. PANEL SIZE	OVERALL PERFORMANCE	DESIGN PRESSURE	MISSILE IMPACT RATING
48-1/2" X 95"	R-PG30	+/- 30 PSF	NON-IMPACT



433 N. MAIN ST., PO BOX 559,
ROCKY MOUNT, VA 24151
PH: 540-484-6348 FX: 540-484-6683

TITLE:
BUILDER SERIES 4780 PATIO DOOR
(NON-HVHZ)(NON-IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

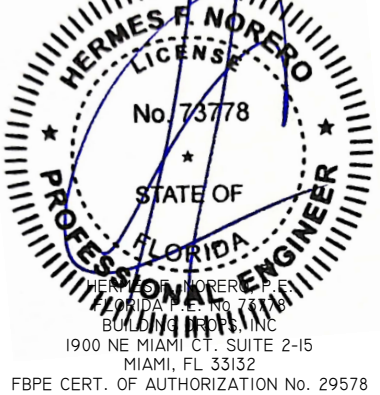
BUILDING DROPS, INC.
1900 NE MIAMI CT., SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ANCHOR REVISION	YC	11.25.19
7TH FBC CODE CHANGE	NUS	8.28.20
UPDATED VIEWS J/9 & K/9	LMH	6.26.25
6 PANEL PD DISCONTINUED	LMH	1.08.26

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.02.11 12:00:47 -0600'



FL #:
FL 14634

DATE:
05.26.11

DWG. BY:
MSS

CHK. BY:
HFN

SCALE:
NTS

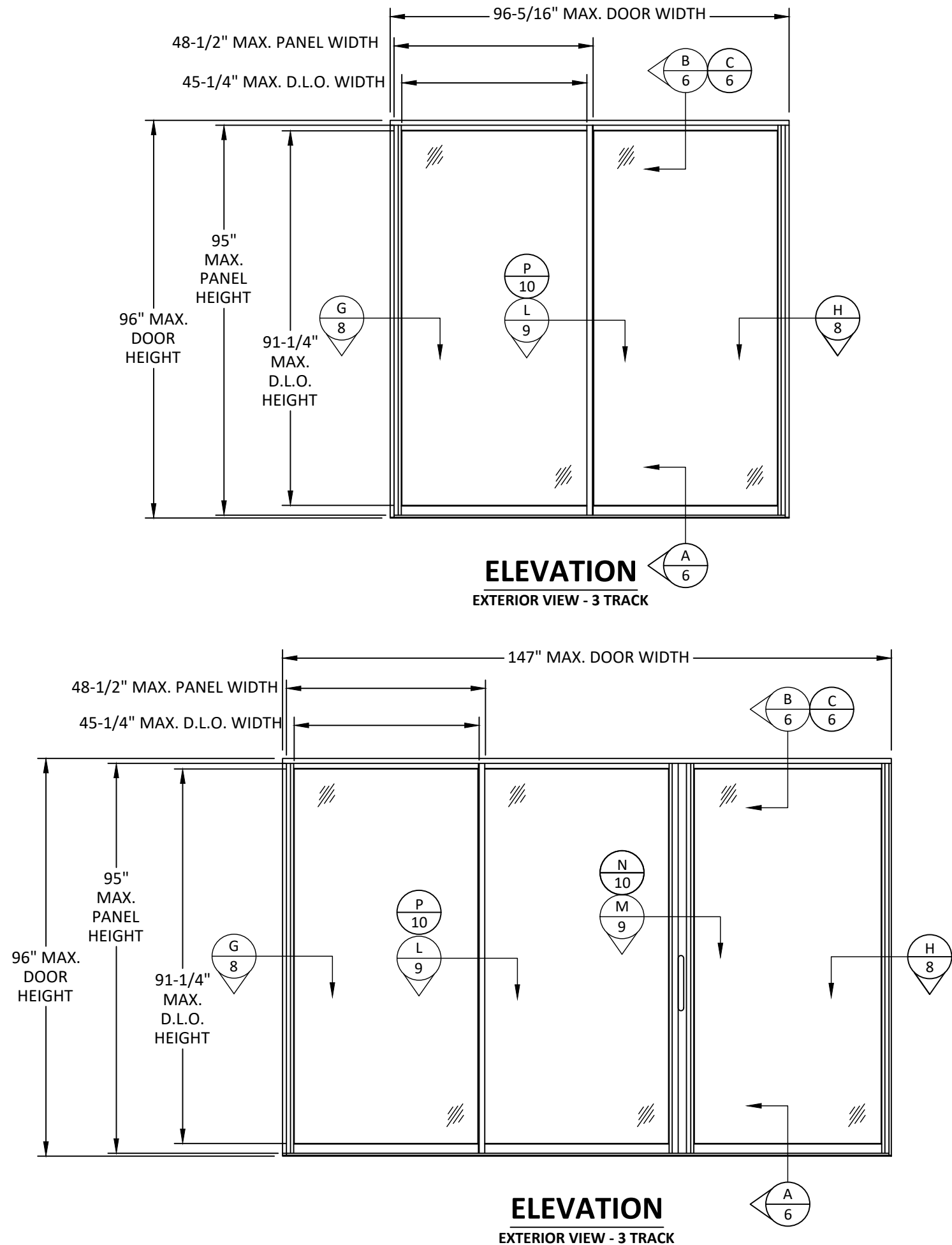
DWG. #:
PGW064

SHEET:
1
OF 10

NOTE:

SCREEN PANELS NOT SHOWN FOR CLARITY.

MAX. SCREEN PANEL HEIGHT: 94-1/2"
MAX. SCREEN PANEL WIDTH: 49"



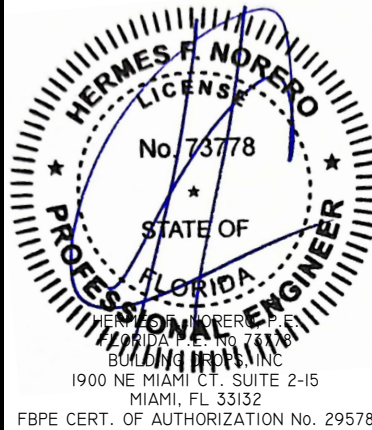
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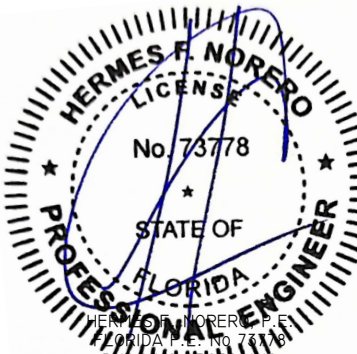
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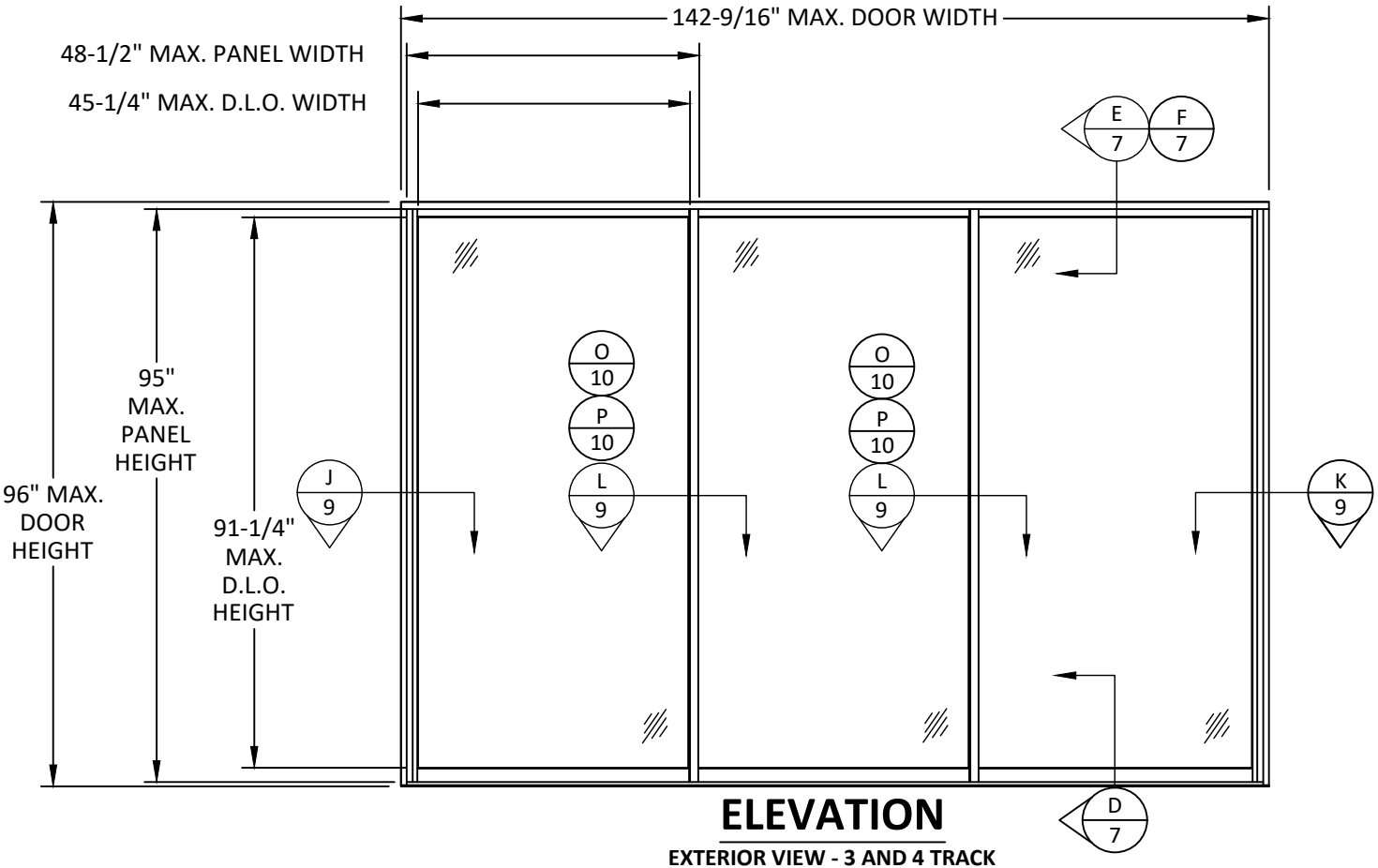


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1900 NE MIAMI CT., SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

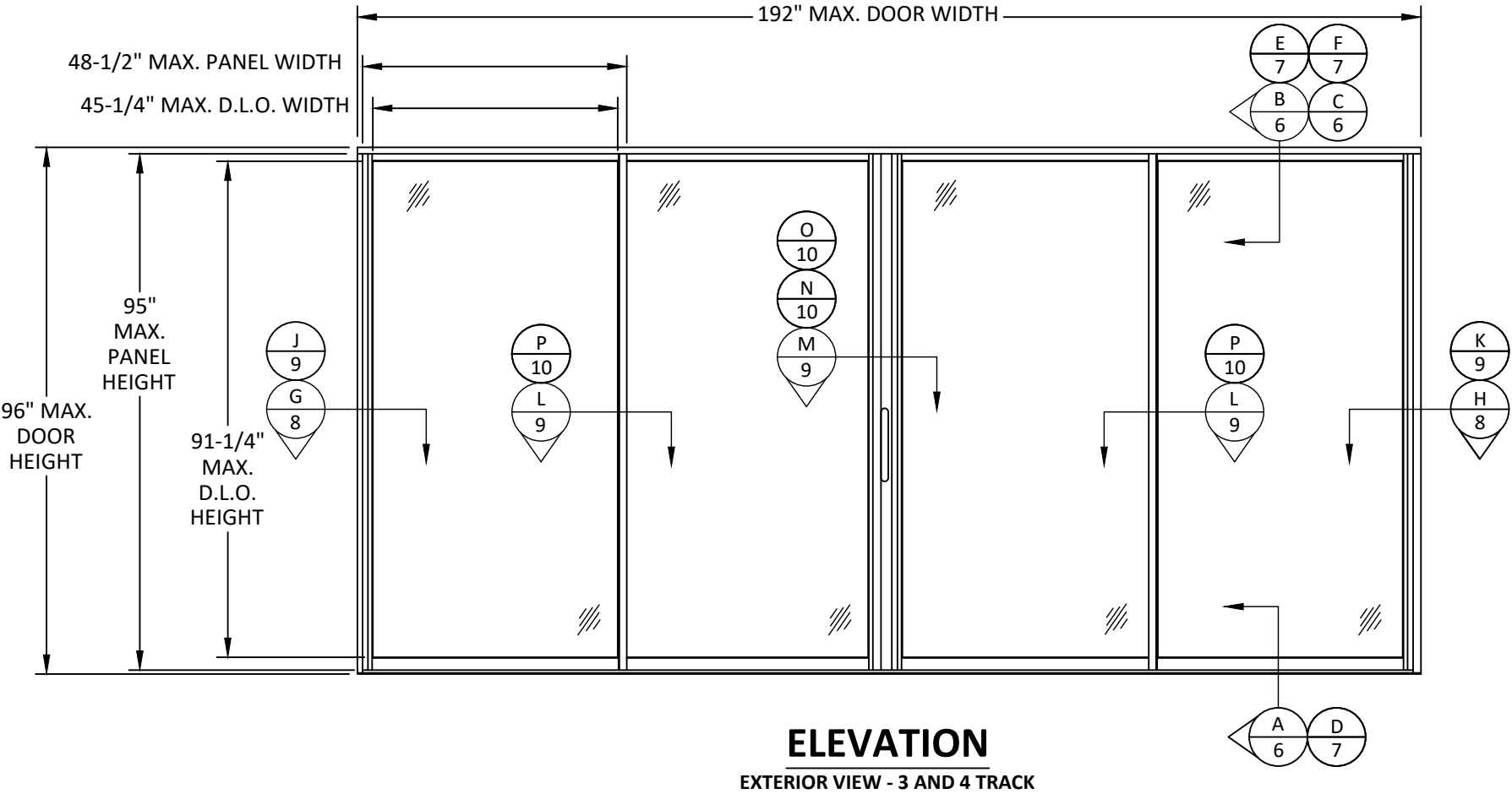
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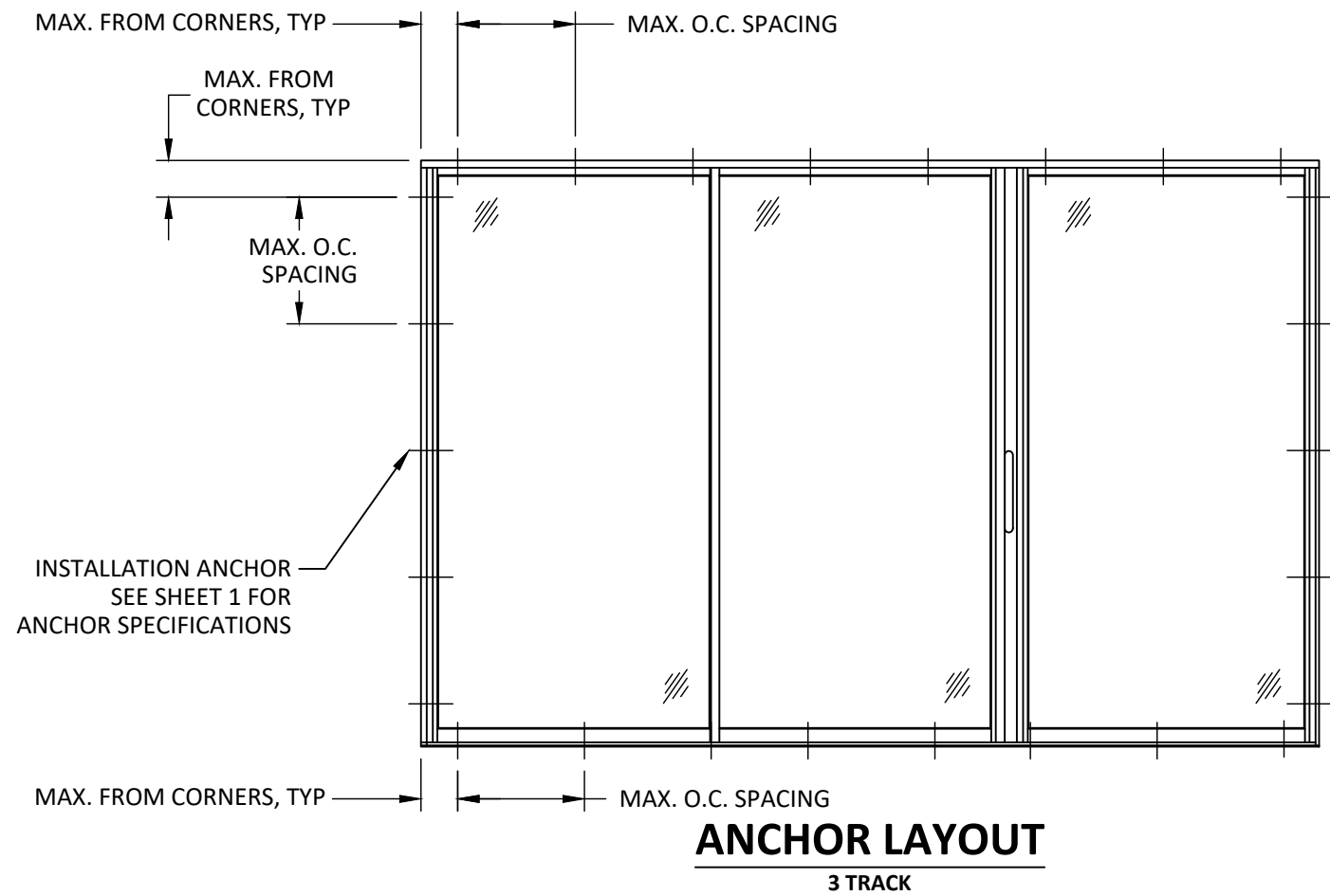
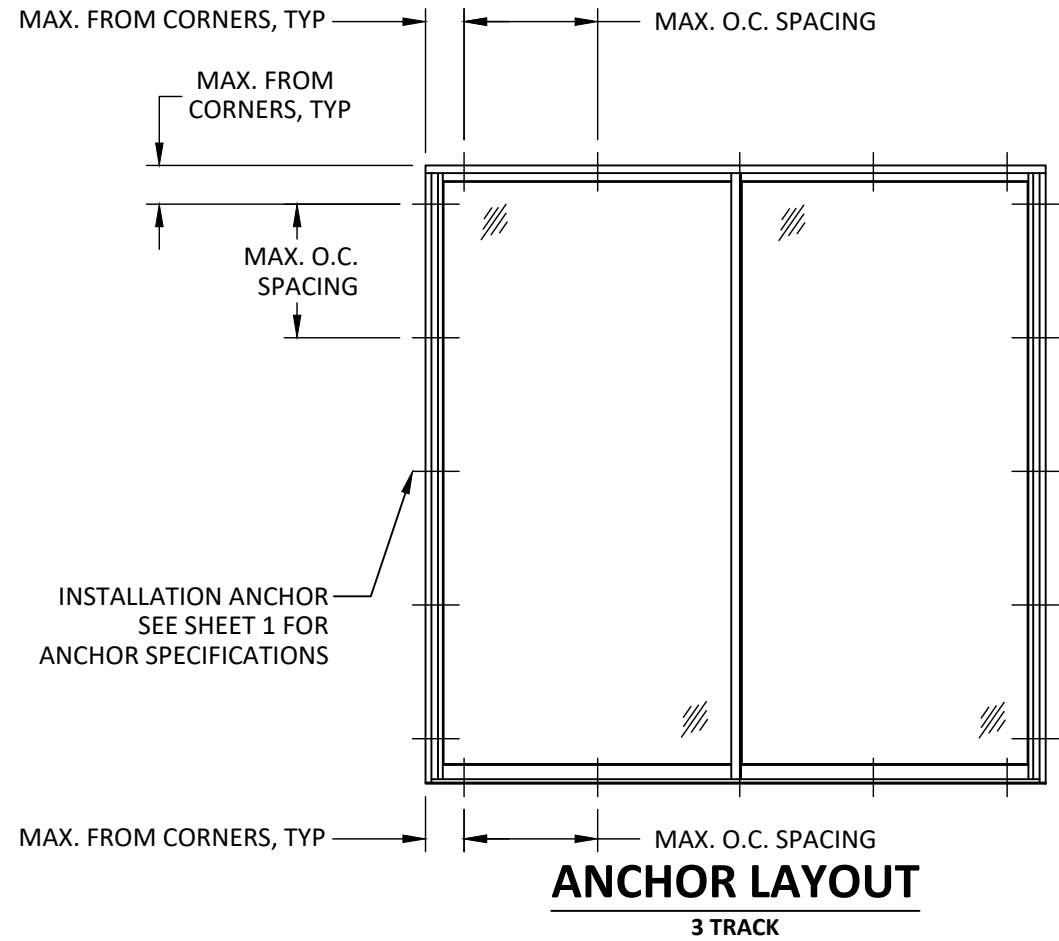
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OF 10



NOTE:
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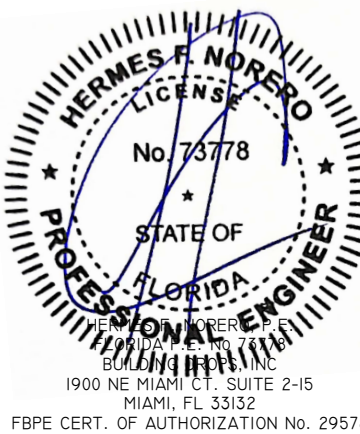
TITLE:
BUILDER SERIES 4780 PATIO DOOR
(NON-HVHZ)(NON-IMPACT)
ANCHOR LAYOUTS

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SCALE: **NTS**

DWG. #: **PGW064**

SHEET:

4

OF 10

MAX. FROM CORNERS, TYP

MAX. O.C. SPACING

MAX. FROM CORNERS, TYP

MAX. O.C. SPACING

INSTALLATION ANCHOR
SEE SHEET 1 FOR
ANCHOR SPECIFICATIONS

MAX. FROM CORNERS

MAX. O.C. SPACING

ANCHOR LAYOUT

3 AND 4 TRACK

MAX. FROM CORNERS, TYP

MAX. O.C. SPACING

MAX. FROM CORNERS, TYP

MAX. O.C. SPACING

INSTALLATION ANCHOR
SEE SHEET 1 FOR
ANCHOR SPECIFICATIONS

MAX. FROM CORNERS, TYP

MAX. O.C. SPACING

ANCHOR LAYOUT

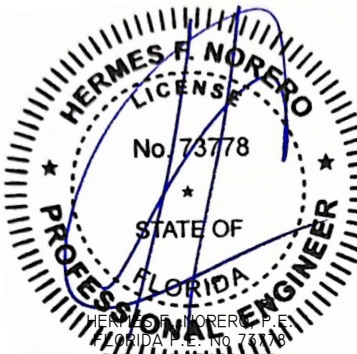
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SHEET:

5

OF 10

TITLE:
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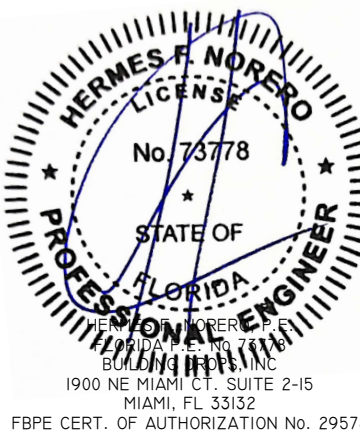
VERTICAL SECTIONS

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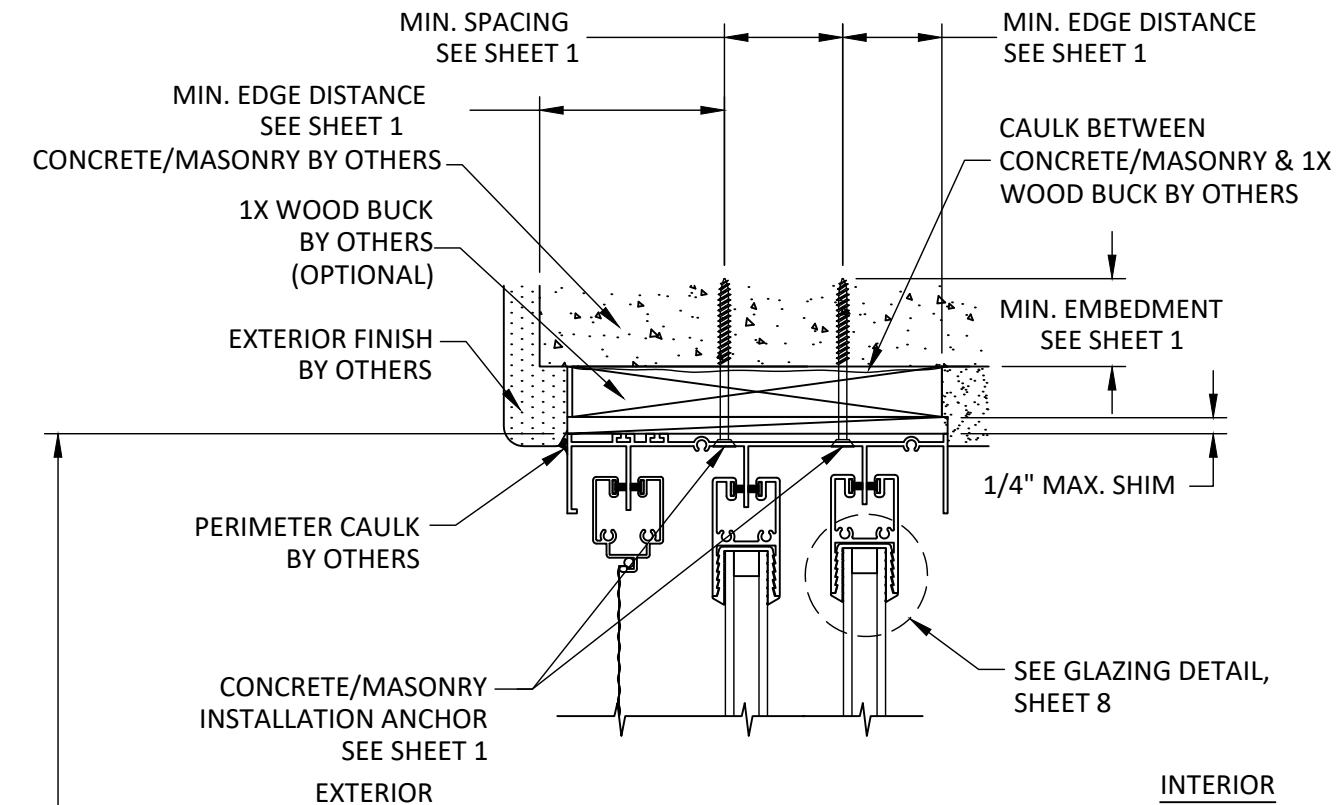
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OF 10

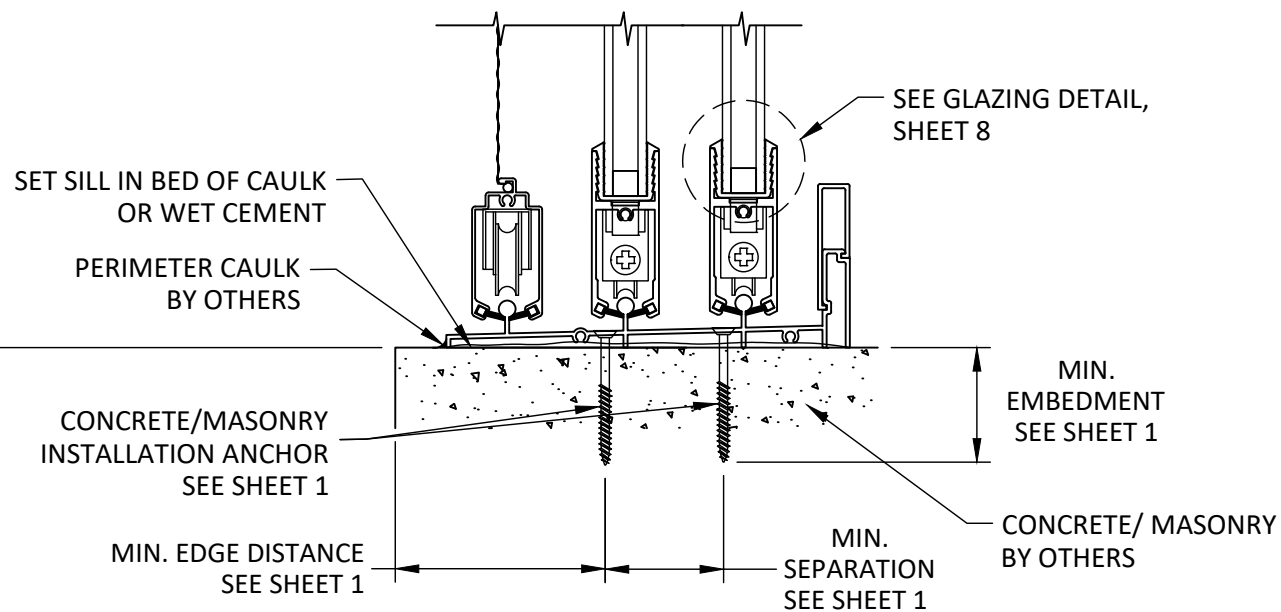


B
6
VERTICAL SECTION
CONCRETE/MASONRY - HEAD
3 TRACK

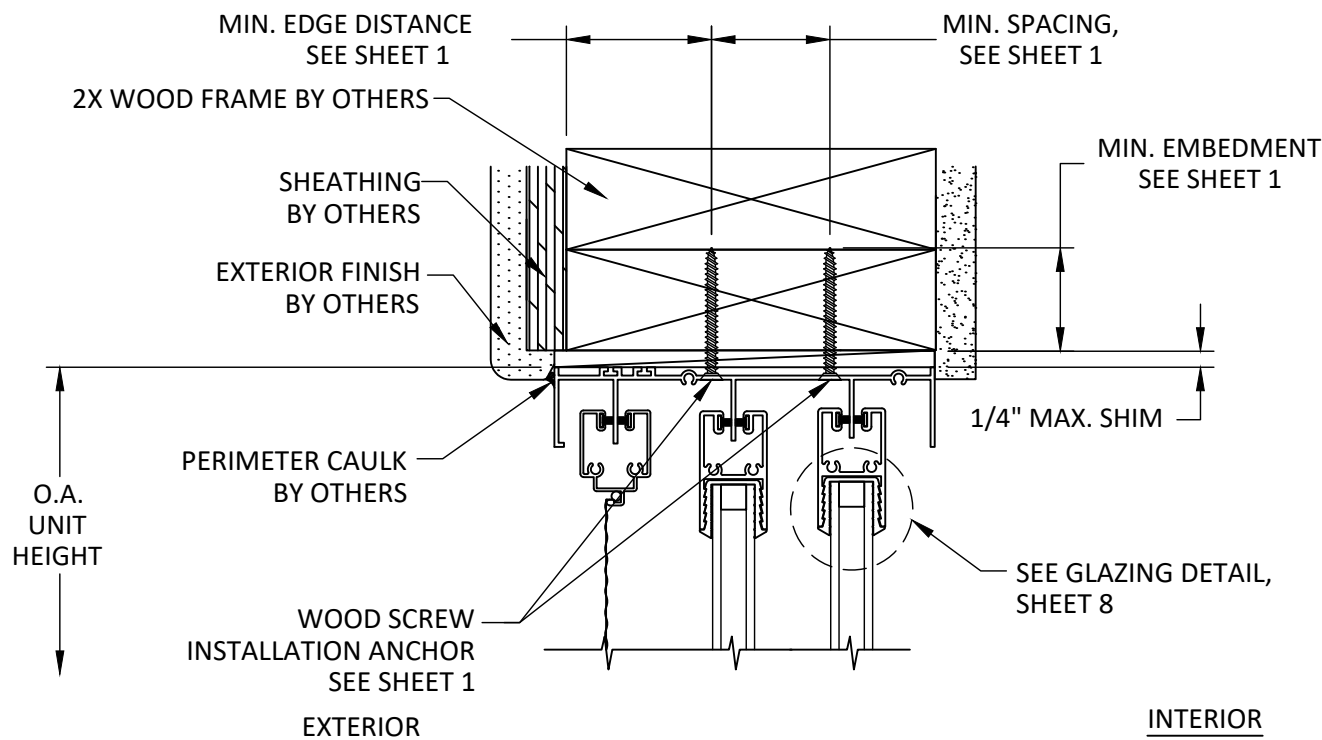
O.A.
UNIT
HEIGHT

EXTERIOR

INTERIOR



A
6
VERTICAL SECTION
CONCRETE/ MASONRY - SILL
3 TRACK



C
6
VERTICAL SECTION
2X WOOD FRAME - HEAD
3 TRACK

O.A.
UNIT
HEIGHT

EXTERIOR

INTERIOR

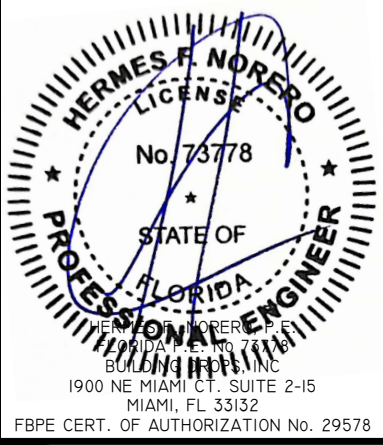
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BUILDER SERIES 4780 PATIO DOOR
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VERTICAL SECTIONS

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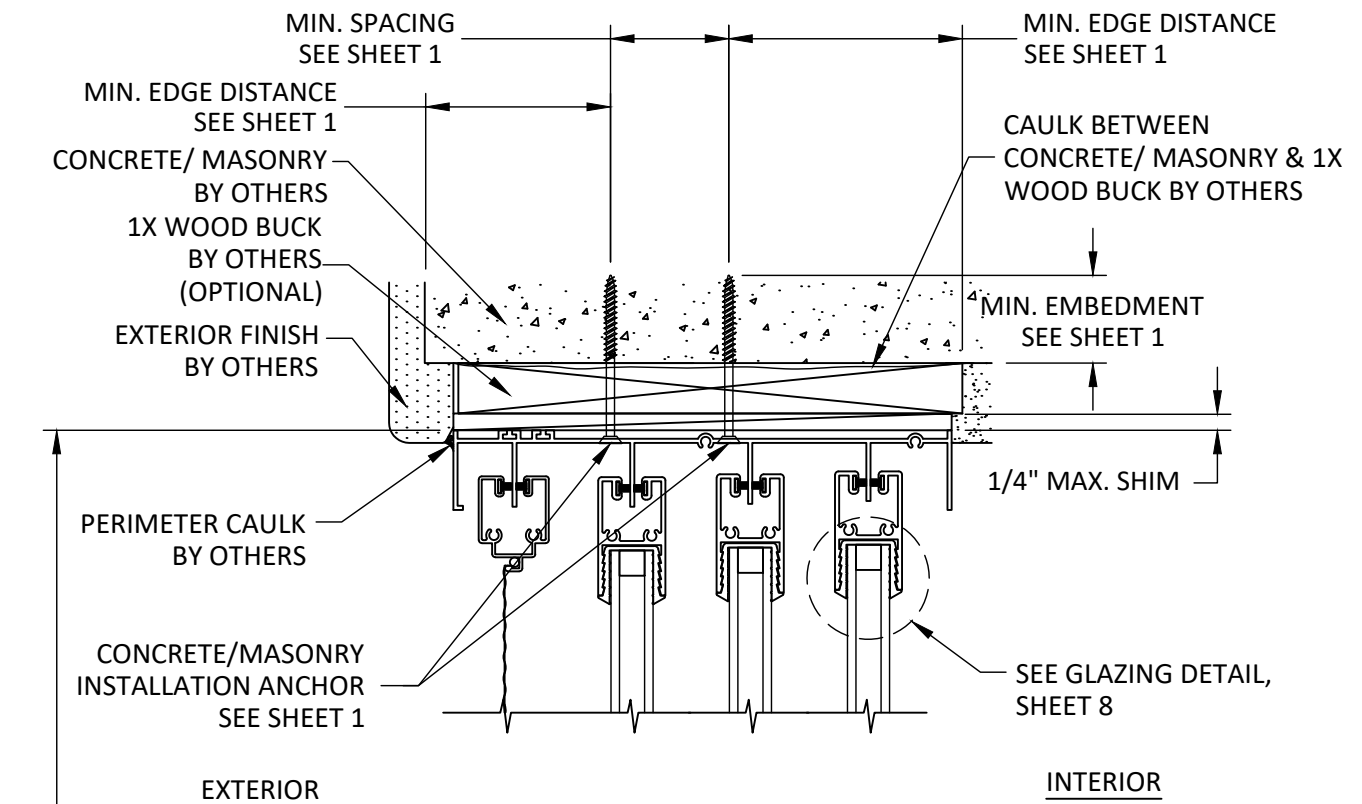
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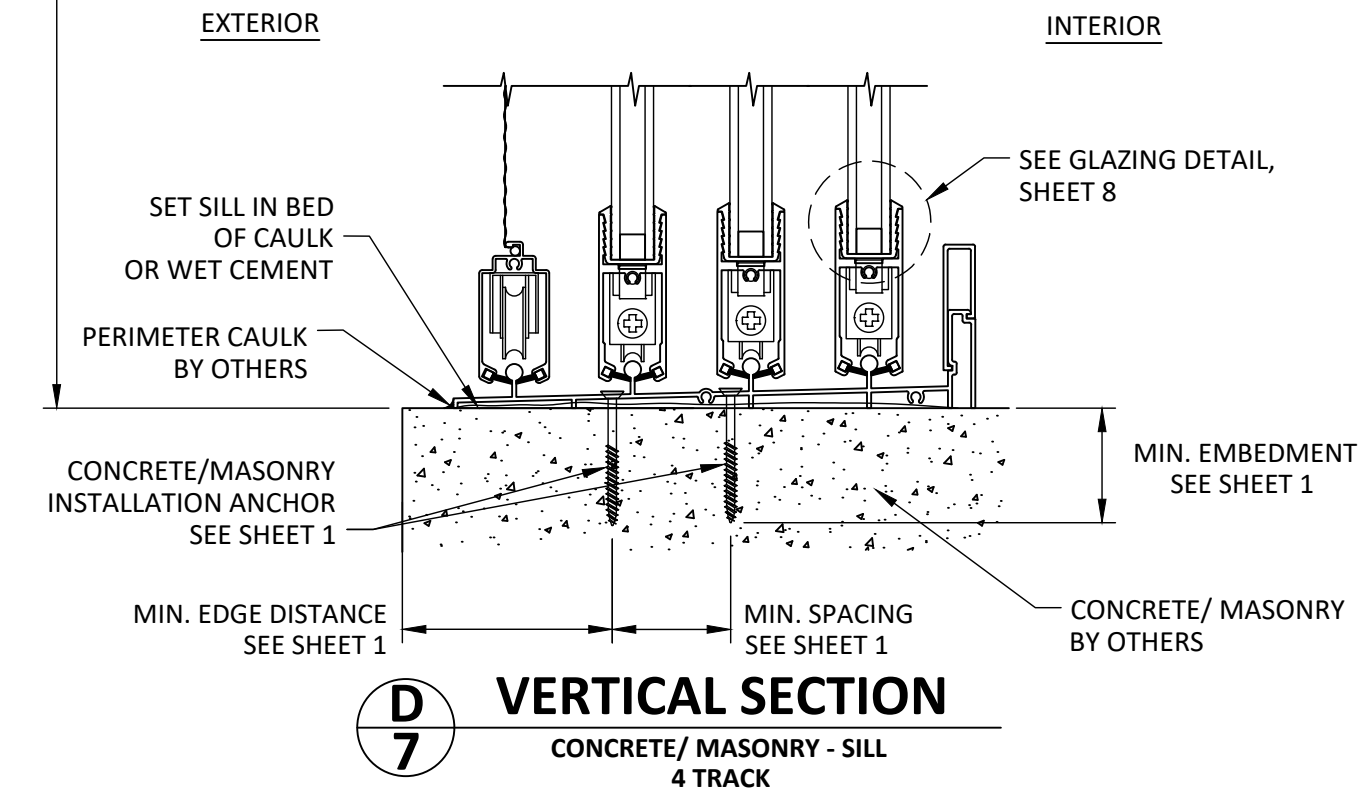


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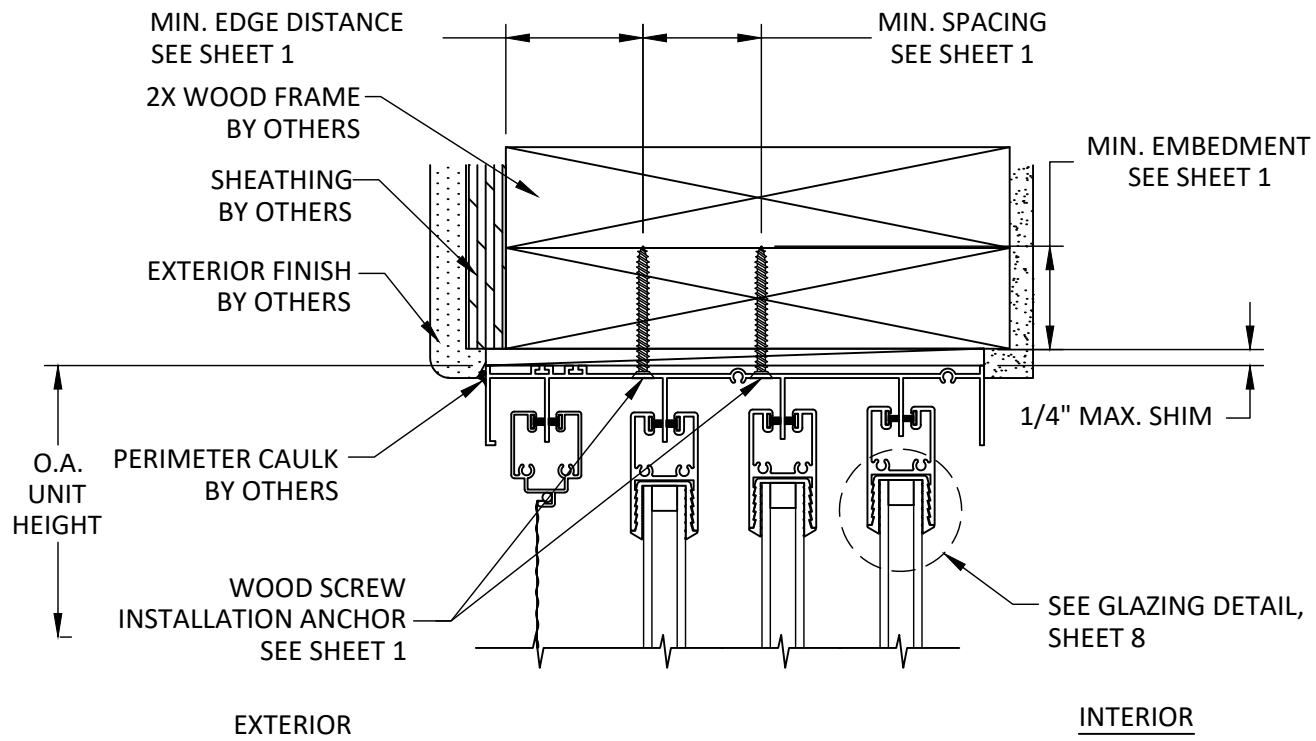
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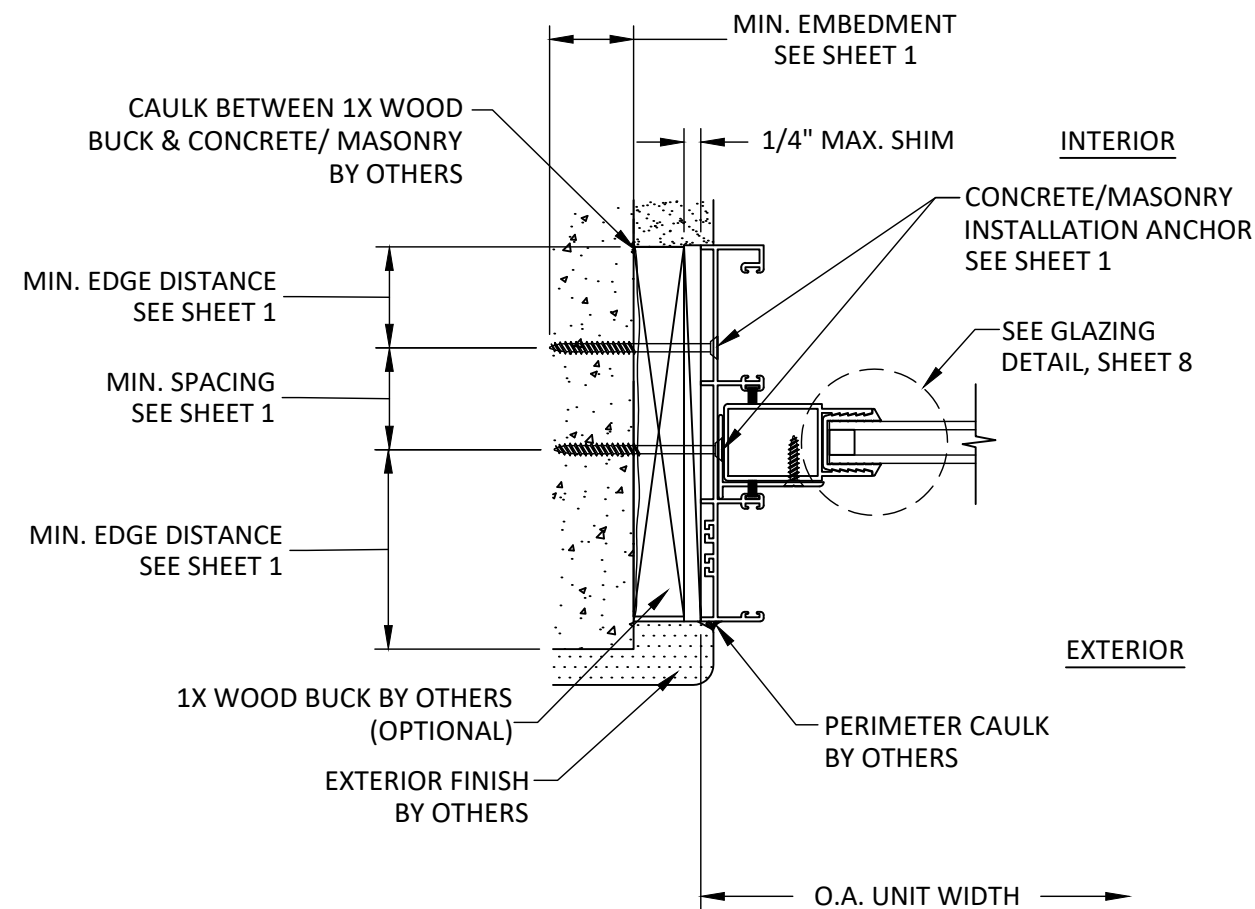
E
7
VERTICAL SECTION
CONCRETE/MASONRY - HEAD
4 TRACK



D
7
VERTICAL SECTION
CONCRETE/ MASONRY - SILL
4 TRACK



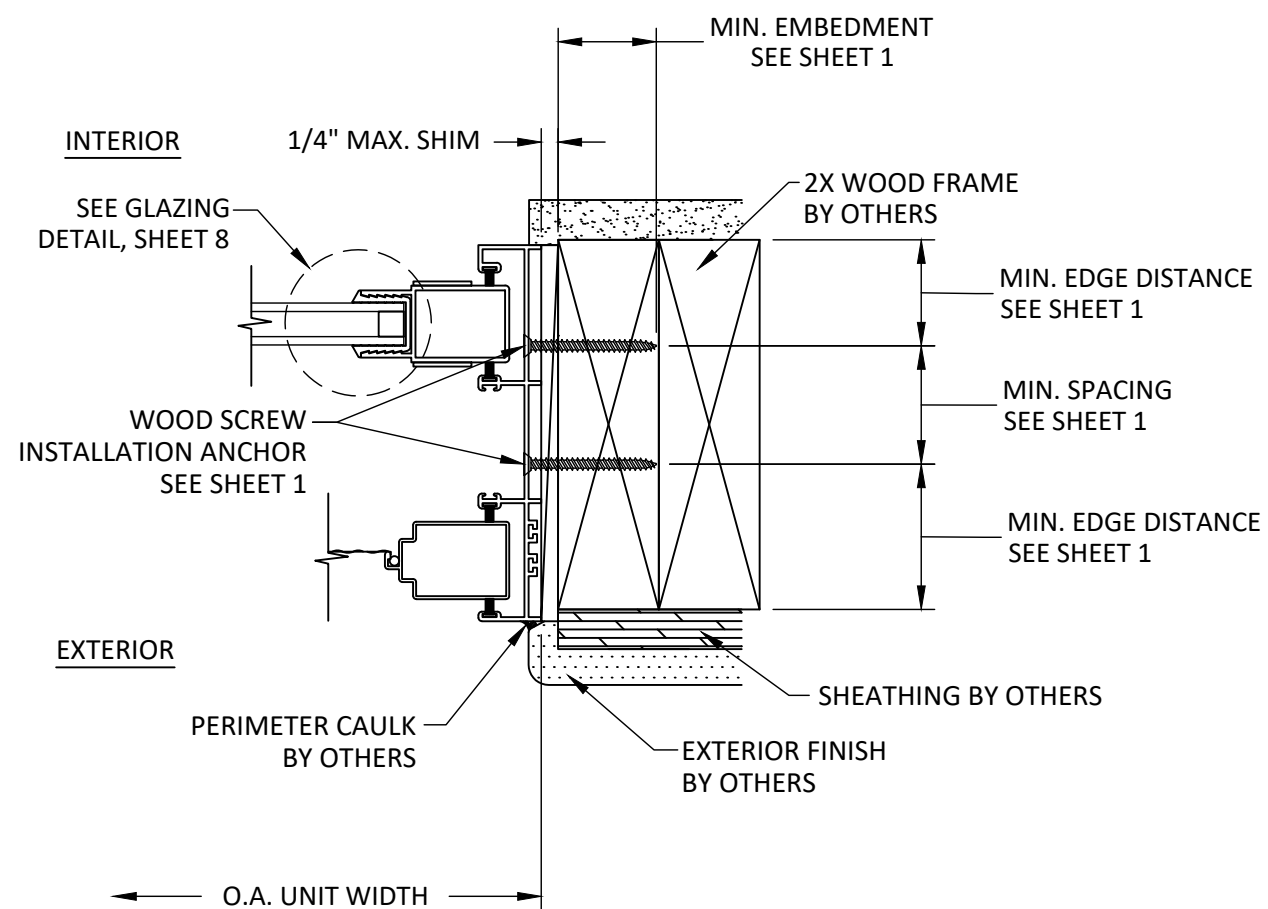
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VERTICAL SECTION
2X WOOD FRAME - HEAD
4 TRACK



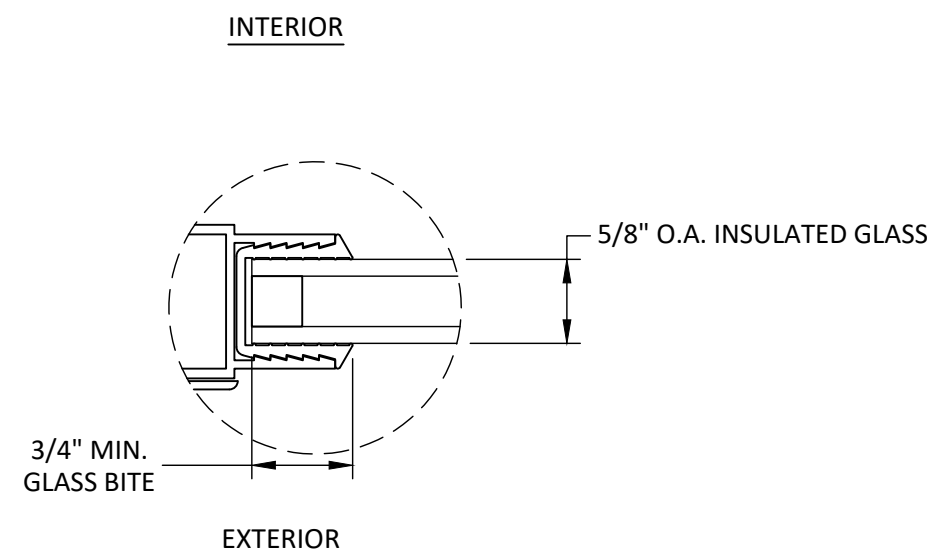
**G
8** **HORIZONTAL SECTION**
CONCRETE/ MASONRY - JAMB
3 TRACK

GLAZING NOTES:

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



**H
8** **HORIZONTAL SECTION**
2X WOOD FRAME - JAMB
3 TRACK



GLAZING DETAIL

TITLE:
BUILDER SERIES 4780 PATIO DOOR
(NON-HVHZ)(NON-IMPACT)

HORIZONTAL SECTIONS
& GLAZING DETAILS

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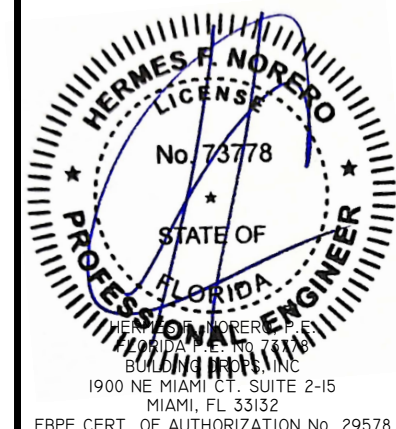
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8

TITLE:
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HORIZONTAL SECTIONS

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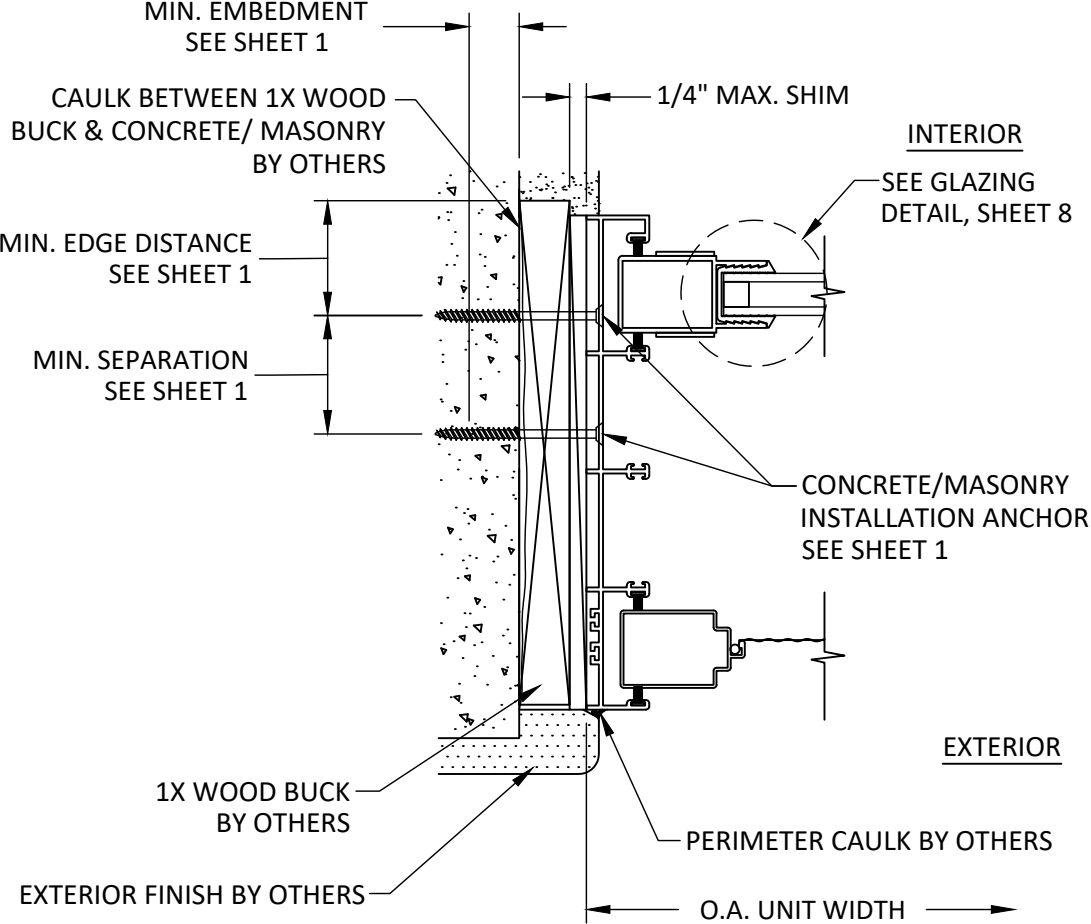


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UPDATED VIEWS J/9 & K/9	LMH	6.26.25
6 PANEL PD DISCONTINUED	LMH	1.08.26

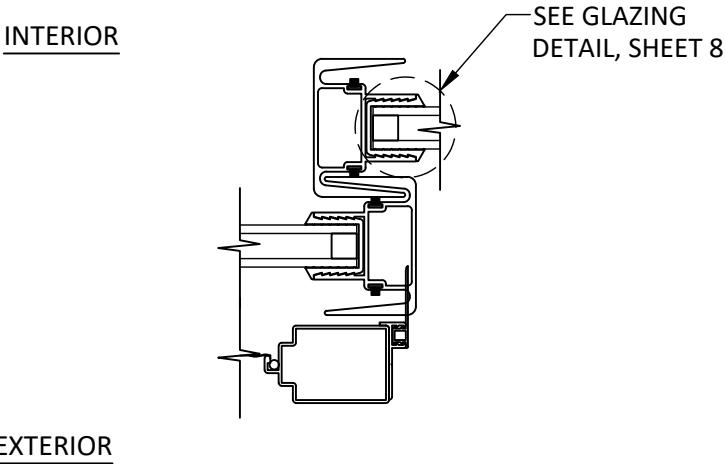
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC
SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	FL 14634
DATE:	05.26.11
DWG. BY:	MSS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	PGW064
SHEET:	9

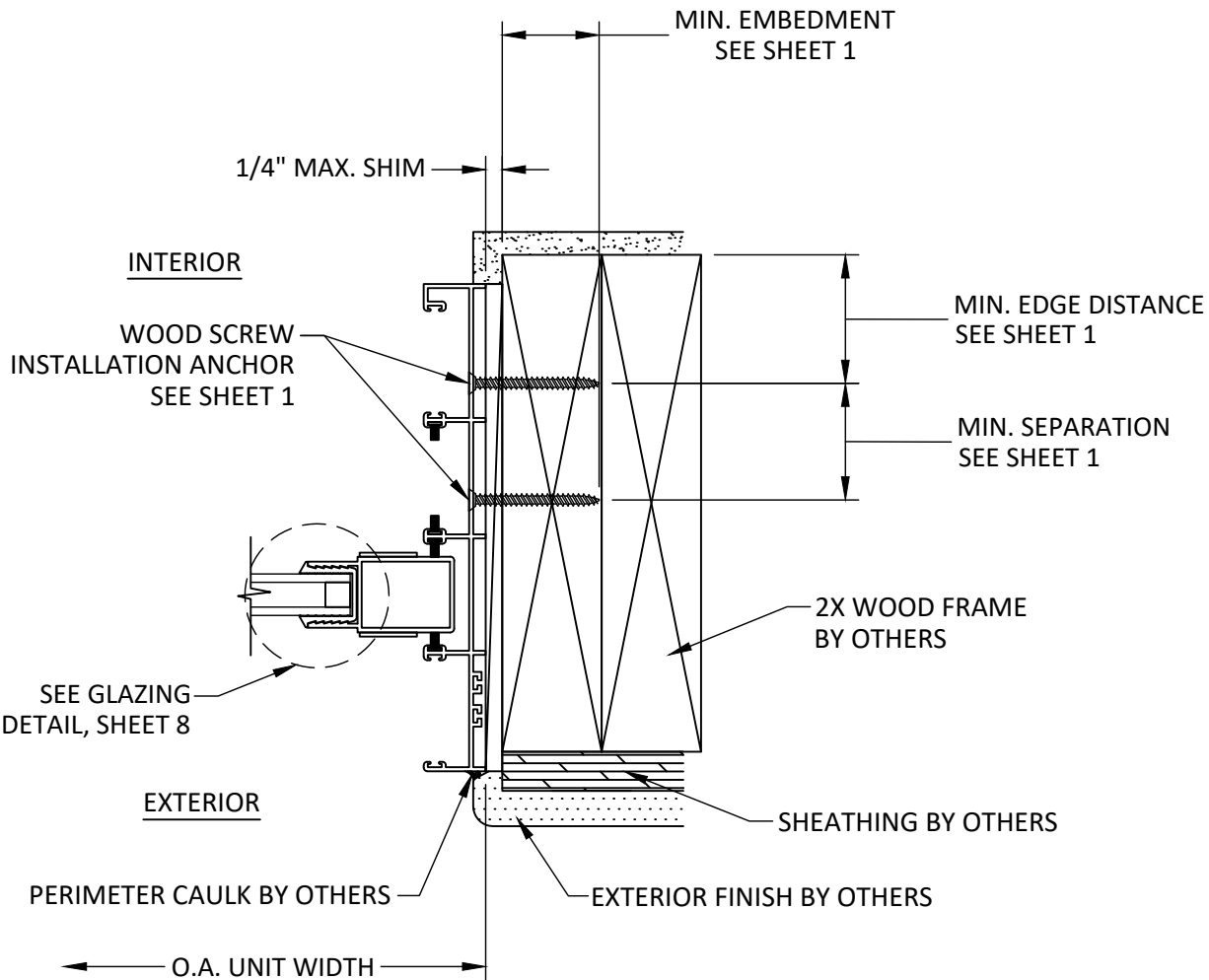


J
9
HORIZONTAL SECTION
CONCRETE/ MASONRY - JAMB
4 TRACK

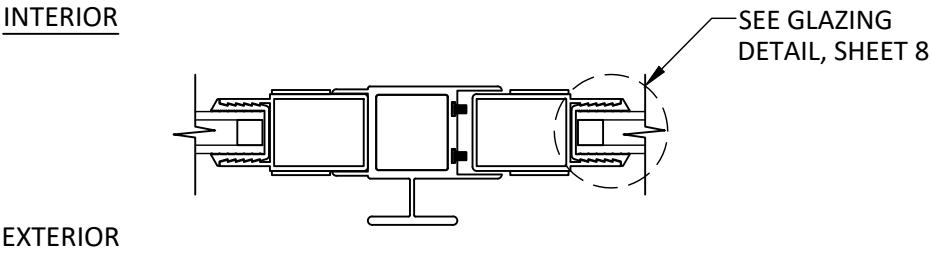


EXTERIOR

L
9
HORIZONTAL SECTION
INTERLOCK



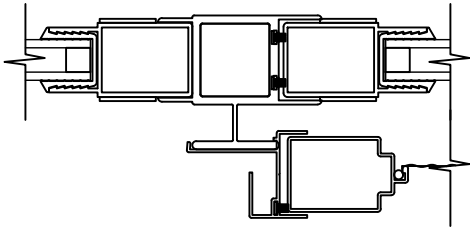
K
9
HORIZONTAL SECTION
2X WOOD FRAME - JAMB
4 TRACK



EXTERIOR

M
9
HORIZONTAL SECTION
BUTT STILE

INTERIOR

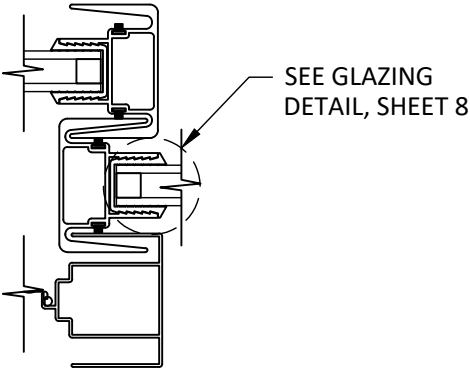


EXTERIOR

N10

HORIZONTAL SECTION
BUTT STILE W/ SCREEN ADAPTER

INTERIOR

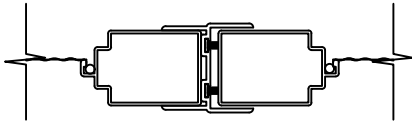


EXTERIOR

P10

HORIZONTAL SECTION
INTERLOCK W/ SCREEN INTERLOCK

INTERIOR



EXTERIOR

O10

HORIZONTAL SECTION
SCREEN BUTT STILE

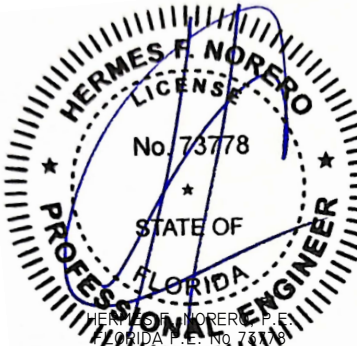
TITLE:
BUILDER SERIES 4780 PATIO DOOR
(NON-HVHZ)(NON-IMPACT)
HORIZONTAL SECTIONS
& BILL OF MATERIALS

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
ANCHOR REVISION	YC	11.25.19
7TH FBC CODE CHANGE	NUS	8.28.20
UPDATED VIEWS J/9 & K/9	LMH	6.26.25
6 PANEL PD DISCONTINUED	LMH	1.08.26

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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT., SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL 14634

DATE: **05.26.11**

DWG. BY: MSS	CHK. BY: HFN
------------------------	------------------------

SCALE: **NTS**

DWG. #: **PGW064**

SHEET:

10

OF 10