

SIMPSON DOOR CO.

MAHOGANY THORO HUNG WESTAR GLAZED DOUBLE
OUTSWING DOOR - IMPACT RATED
INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE 9TH EDITION (2026) FLORIDA BUILDING CODE - BUILDING (FBC) AND RESIDENTIAL (FRC) REQUIREMENTS FOR WIND ZONE 3 & 4, MISSILE LEVEL D EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURE(S) STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # NCTL-210-4190-8 AND ASSOCIATED LABORATORY STAMPED DRAWINGS.

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 STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

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.

4. IN AREAS WHERE WIND-BORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED.

5. DOOR FRAME OR COMPONENTS STRUCTURAL CORE MATERIAL: LAMINATED VENEER LUMBER (LVL) AND/OR FIR OR PINE FINGERJOINTED AND EDGE GLUED CORE MATERIAL. USE OF ALTERNATE WOOD VENEERS ON THE SAME STRUCTURAL CORE MATERIAL IS ACCEPTABLE FOR THIS PRODUCT. LVL MAY BE EITHER VERTICAL OR HORIZONTAL ORIENTATION.

6. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-24. SEE SHEET 4 FOR GLAZING DETAILS.
7. DESIGNATION "X" STANDS FOR THE FOLLOWING:
X: OPERABLE PANEL

8. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DETAILED IN ACCORDANCE WITH THE FBC, RESIDENTIAL AND BUILDING VOLUMES AND WITH FMA/AAMA/WDMA PROTOCOLS. PERIMETER AND JOINT SEALANT IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND IS NOT PART OF THIS PRODUCT APPROVAL DOCUMENT.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.

2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED ARE THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. ANCHORS ARE TO MATCH TYPE, SIZE, AND EMBEDMENT OF THOSE SHOWN HEREIN FOR RESPECTIVE SUBSTRATE.

3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE IS 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. FOR INSTALLATION INTO WOOD FRAMING, USE #12 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT. MINIMUM EDGE DISTANCE IS 7/8 INCHES.

5. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE 1/4 INCH ITW TAPCONS (ADVANCED THREADFORM) OF SUFFICIENT LENGTH TO ACHIEVE 1 3/4 INCH MINIMUM EMBEDMENT INTO CONCRETE AND 1 INCH MINIMUM EMBEDMENT INTO MASONRY. MINIMUM EDGE DISTANCE IS 2-1/2 INCHES FOR CONCRETE AND MASONRY.

6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
7. FOR CONCRETE 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 ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

8.1 WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 (NON-HVHZ).

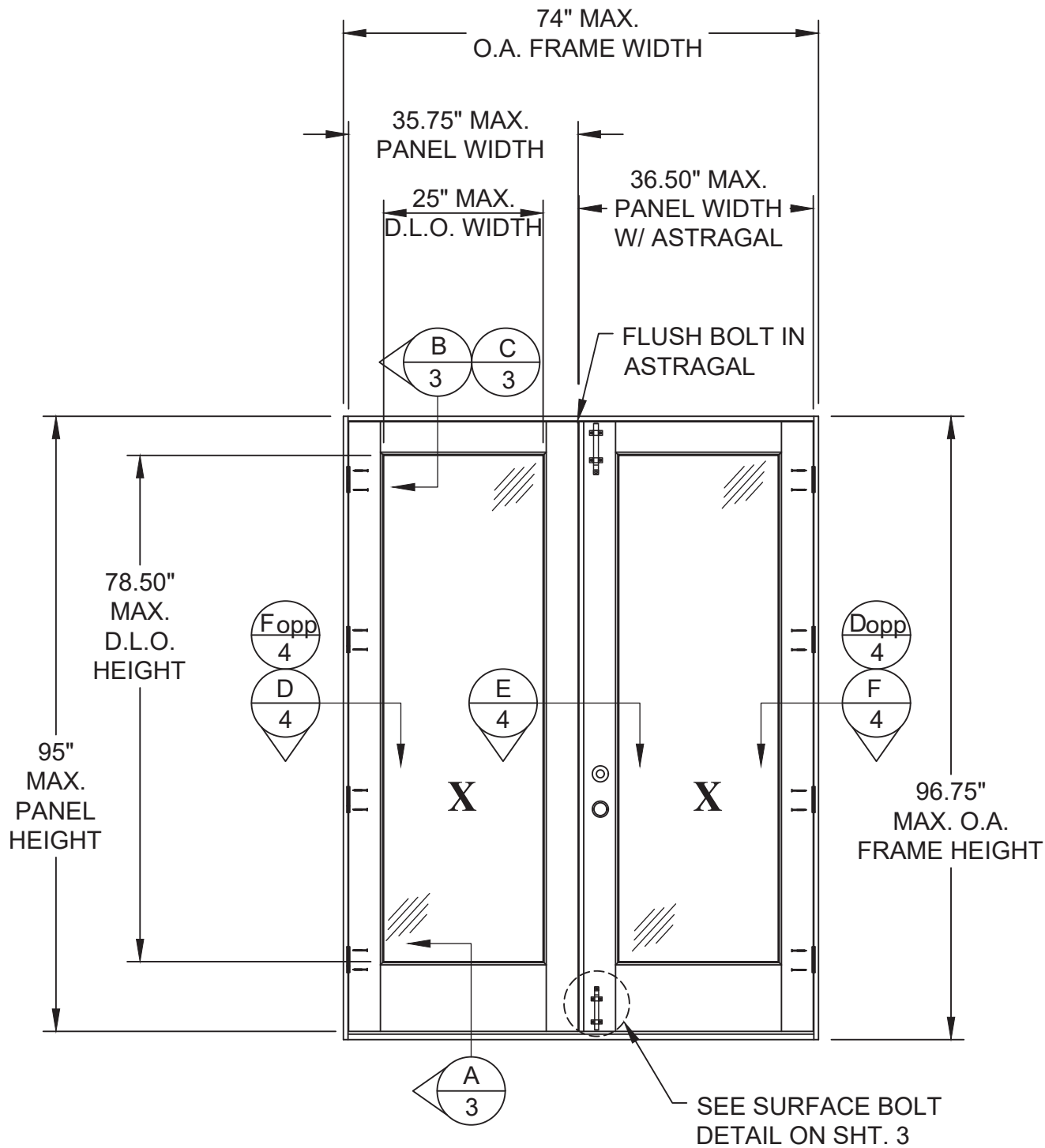
8.2 CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

8.3 MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).

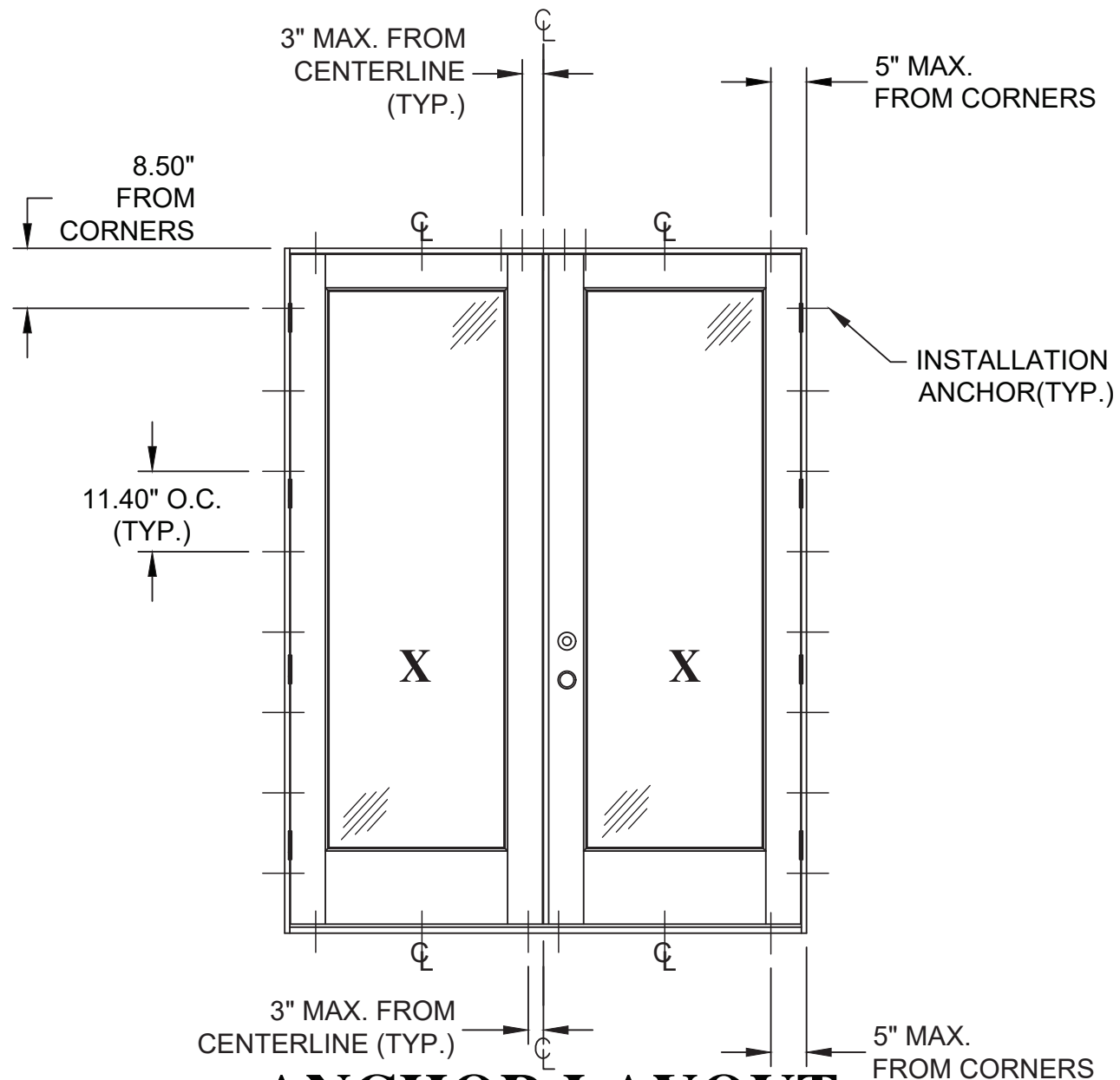
9. INSTALLATION FASTENER MATERIAL/SURFACE TREATMENT REQUIREMENTS.

9.1 ALL FASTENERS TO BE CORROSION RESISTANT AND/OR HAVE A CORROSION RESISTANT COATING.

9.2 WHEN EXPOSED TO SALTWATER ENVIRONMENTS WITHIN 3,000 FEET OF A SALTWATER COASTLINE MEET THE REQUIREMENTS OF SECTION 1711, 9TH EDITION (2026) FBC AND SECTION R332, 9TH EDITION (2026) FRC WHEN APPLICABLE.
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| SHEET | DESCRIPTION |
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| 2 | ELEVATIONS AND ANCHOR LAYOUT |
| 3 | VERTICAL SECTIONS & SURFACE BOLT DETAILS |
| 4 | HORIZONTAL SECTIONS, GLAZING DETAILS & MUNTIN DETAILS |
| 5 | QUALIFIED PANELS |
- | PERFORMANCE RATING | | | | | |
|--------------------|---------|-----------|-------------------|--------------------------|--|
| MAXIMUM FRAME SIZE | CONFIG. | ELEVATION | GLAZING
DETAIL | DESIGN
PRESSURE (PSF) | IMPACT RATING
(SEE GENERAL
NOTE 4) |
| 74" X 96-3/4" | XX | SHEET 2 | SHEET 4 | +/- 50 | WIND ZONE 4
MISSILE LEVEL D |
- | | | | | | |
|--|--|--|--------------------------------------|---------------|----------------------|
| PROJECT NO. ACE-2025-134 | | | | RJA | BY |
| | | | | 8/14/26 | DATE |
| | | | UPDATE TO THE 9TH EDITION (2026) FBC | A | REV |
| | | | DESCRIPTION | REV | BY |
| SIMPSON DOOR COMPANY
400 SIMPSON AVE.
MCCLEARY, WA 98557 | | TITLE: MAHOGANY THORO HUNG WESTAR GLAZED DBL OS DOOR
GENERAL AND INSTALLATION NOTES | | DRAWN BY: RJA | DATE: 6/11/21 |
| | | | | SCALE: N.T.S. | DRAWING NO: SIMP0017 |
| | | | | REV: A | SHEET: 1 OF 5 |
| | | PREPARED BY: AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RIAENGPE@GMAIL.COM | | | |
- Robert J. Amoruso, P.E.
Florida P.E. No. 49752
-
- SIGNED/SEALED: 8/14/26



ELEVATION
(INTERIOR VIEW)



ANCHOR LAYOUT
(INTERIOR VIEW)

PROJECT NO. ACE-2025-134

				BY
			8/14/26	RJA
		UPDATE TO THE 9TH EDITION (2026) FBC		
		DESCRIPTION	DATE	BY
		REV		

SIMPSON DOOR COMPANY
400 SIMPSON AVE.
MCCLEARY, WA 98557

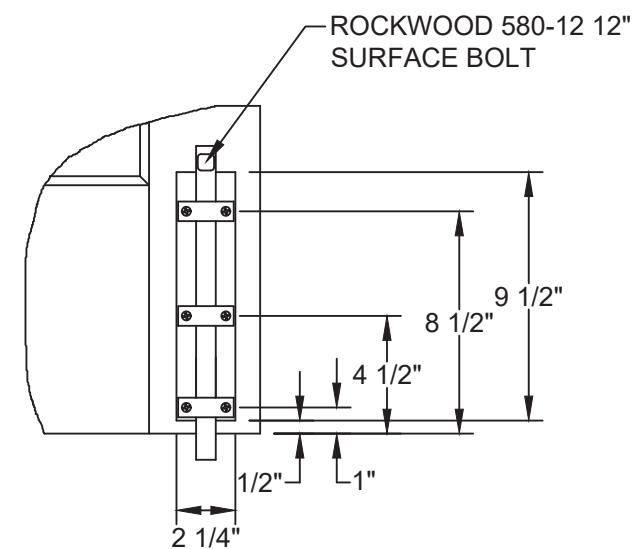
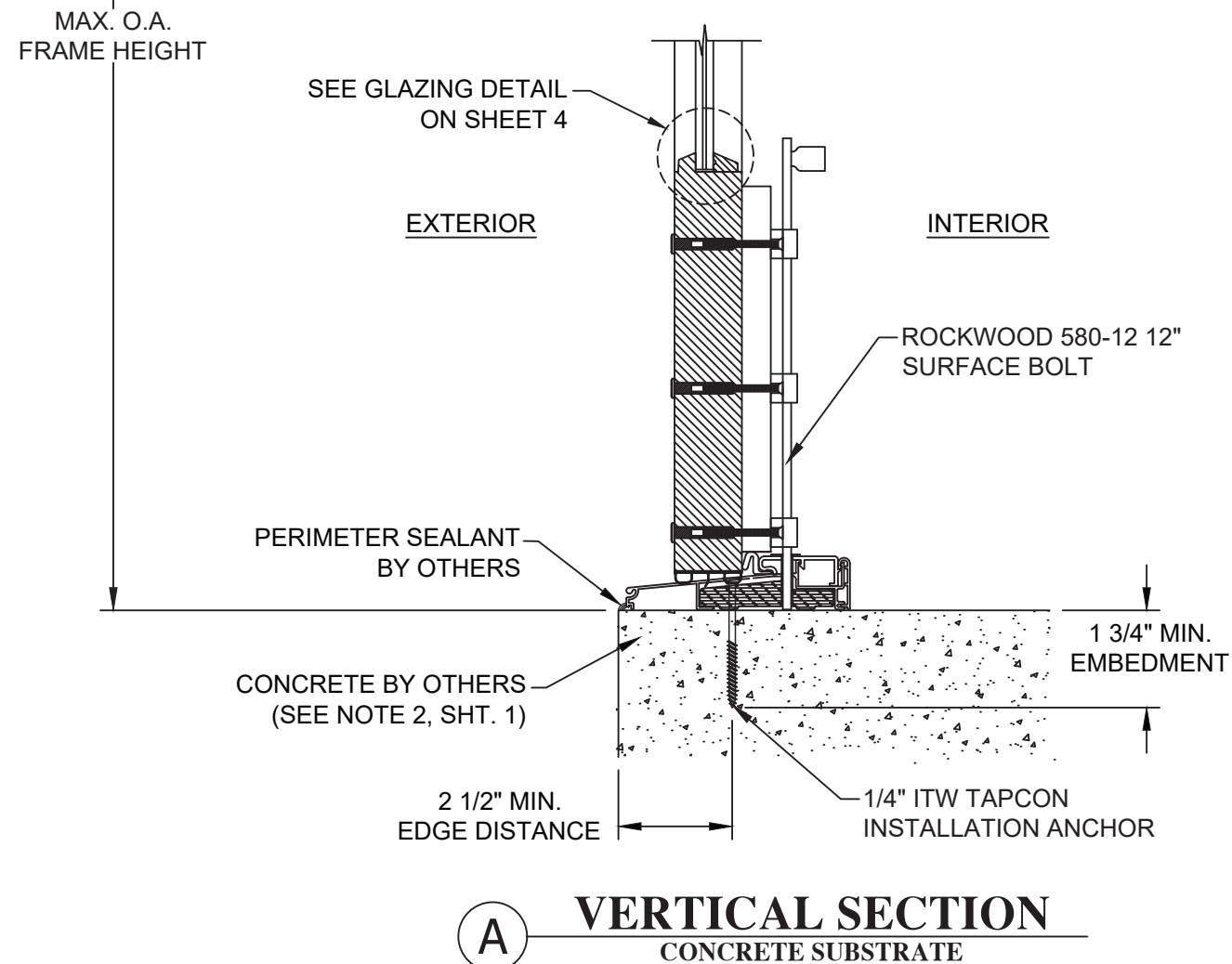
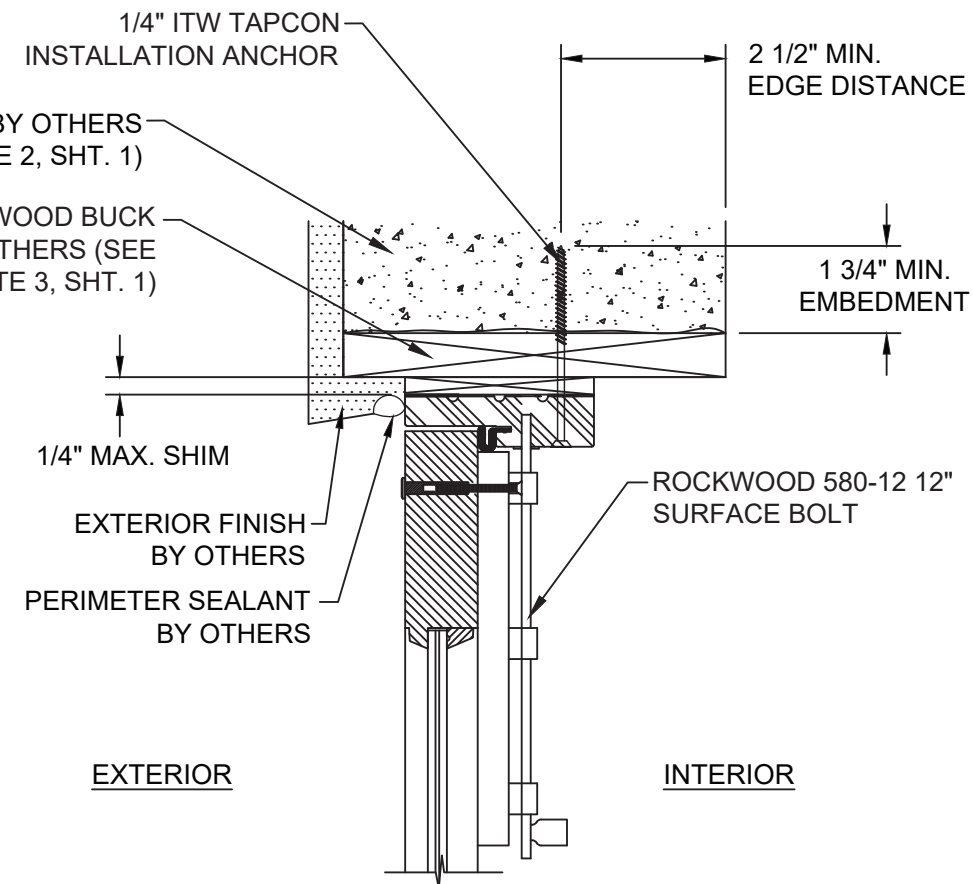
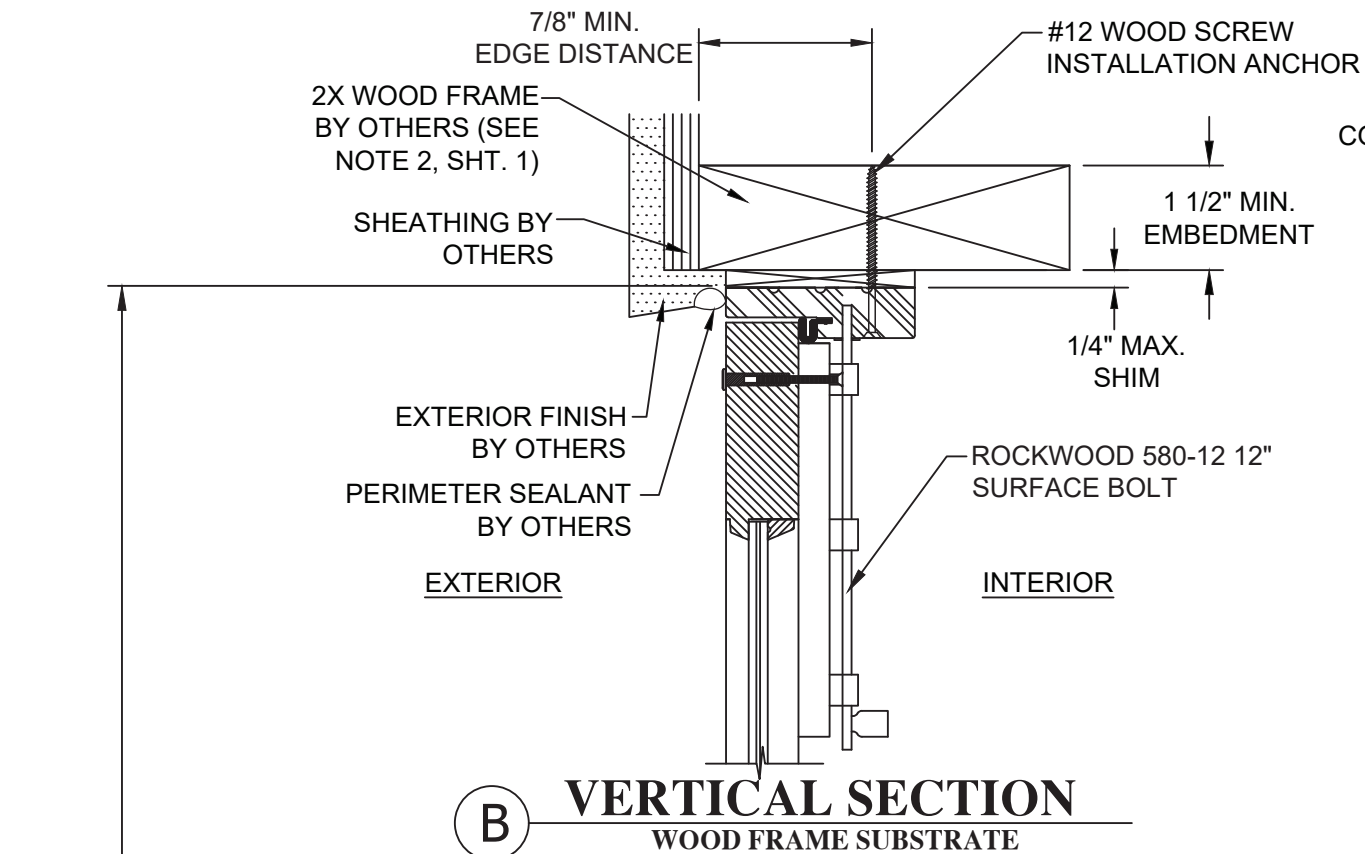
TITLE: MAHOGANY THORO HUNG WESTAR GLAZED DBL OS DOOR
ELEVATION & ANCHOR LAYOUT

PREPARED BY:	DATE:	6/11/21
AMORUSO CONSULTING ENG., LLC	DRAWN BY:	RJA
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SIGNED/SEALED: 8/14/26



SURFACE BOLT DETAIL

PROJECT NO. ACE-2025-134

REV	DESCRIPTION	DATE	BY
A	UPDATE TO THE 9TH EDITION (2026) FBC	8/14/26	RJA

SIMPSON DOOR COMPANY

400 SIMPSON AVE.

MCCLEARY, WA 98557

MAHOGANY THORO HUNG WESTAR GLAZED DBL OS DOOR
VERTICAL SECTIONS & SURFACE BOLT DETAIL

DATE: 6/11/21

DRAWING NO: SIMP0017

SHEET: 3 OF 5

DRAWN BY: RJA

SCALE: N.T.S.

REV: A

PREPARED BY: AMORUSO CONSULTING ENG., LLC

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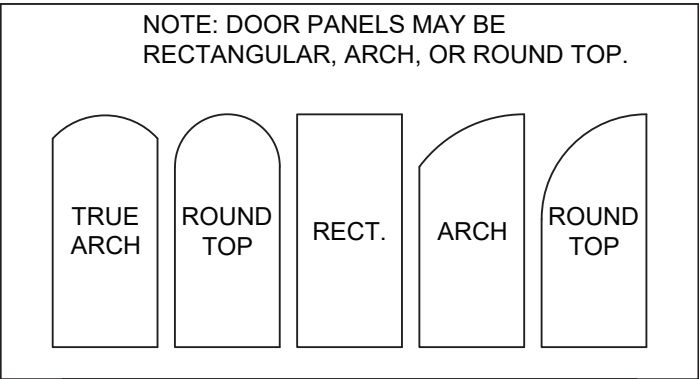
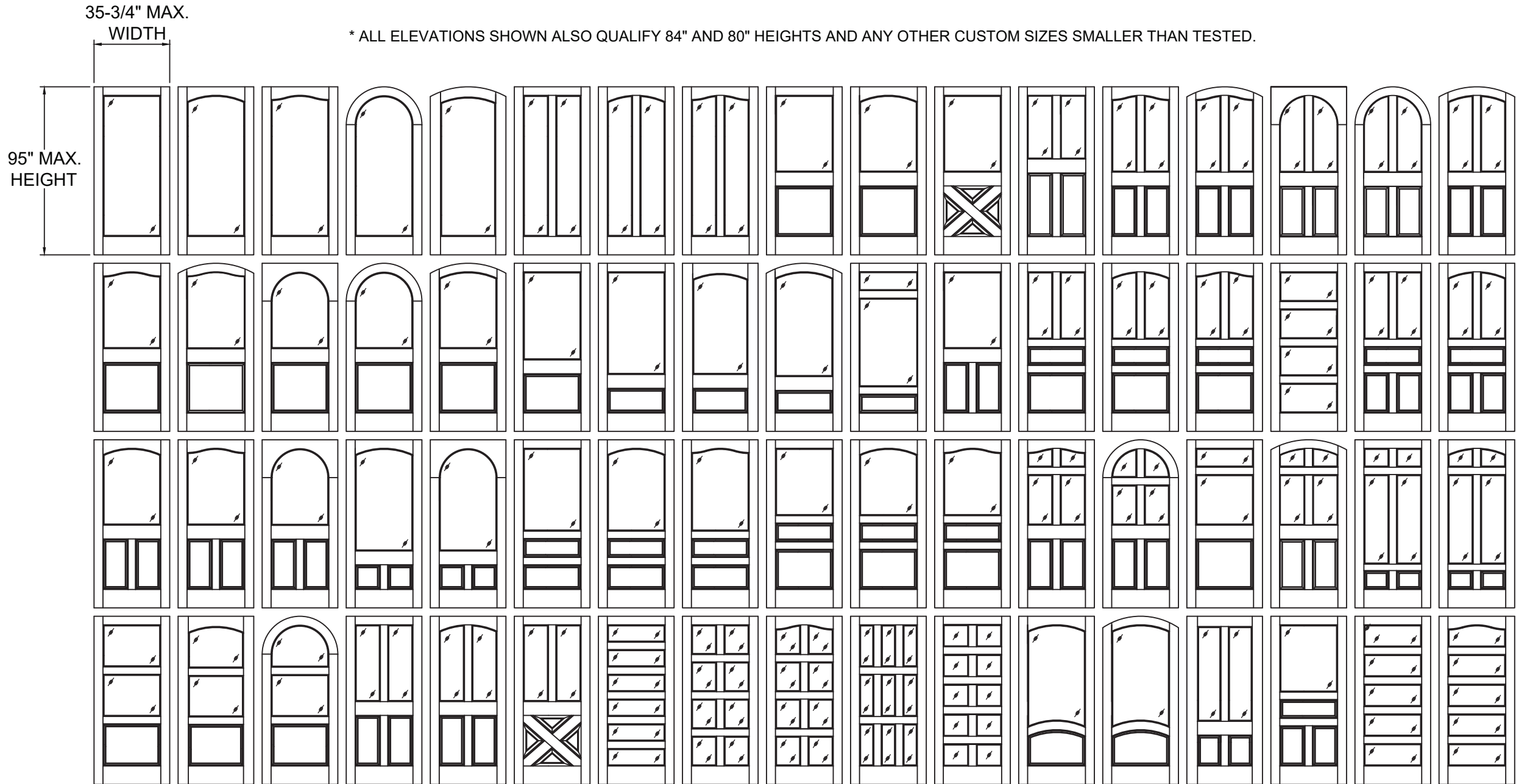


A	UPDATE TO THE 9TH EDITION (2026) FBC	8/14/26	RJA	
REV	DESCRIPTION	DATE	BY	

Robert J. Amoruso, P.E.
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SIGNED/SEALED: 8/14/26



APPLICABLE GLAZED PANEL DOORS

NOTE:
APPLIED MUNTINS USED FOR DIVIDED LITES.
V-GROOVES OPTIONAL FOR BOTH FLAT AND
RAISED PANELS.



PROJECT NO. ACE-2025-134

SIMPSON DOOR COMPANY
400 SIMPSON AVE.
MCCLEARY, WA 98557

TITLE: MAHOGANY THORO HUNG WESTAR GLAZED DBL OS DOOR
CONFIGURATIONS

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DRAWN BY: RJA
SCALE: N.T.S.
REV: A

DATE: 6/11/21
DRAWING NO: SIMP0017
SHEET: 5 OF 5

UPDATE TO THE 9TH
EDITION (2026) FBC
A
REV
DESCRIPTION
DATE
BY
RJA
8/14/26

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