

SIMPSON DOOR CO.

HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM

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 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-210-4190-2 (NCTL-210-4190-1 FOR W&F LOCKING HARDWARE) 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 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.

7. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED 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 #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT. MINIMUM EDGE DISTANCE IS 3/4 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.

PROJECT NO. ACE-2025-134

A

UPDATE TO THE 9TH EDITION (2026) FBC

REV

DESCRIPTION

RJA

DATE

BY

SIMPSON DOOR COMPANY

400 SIMPSON AVE.

MCCLEARY, WA 98557

TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM
GENERAL AND INSTALLATION NOTES

DRAWN BY: RJA

DATE: 6/18/21

SCALE: N.T.S.

DRAWING NO: SIMP0020

REV: A

SHEET: 1 OF 11

PREPARED BY: AMORUSO CONSULTING ENG., LLC

FBPE REGISTRATION NO. 38327

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ORMOND BEACH, FL 32174

RJAENGPE@GMAIL.COM

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Florida P.E. No. 49752

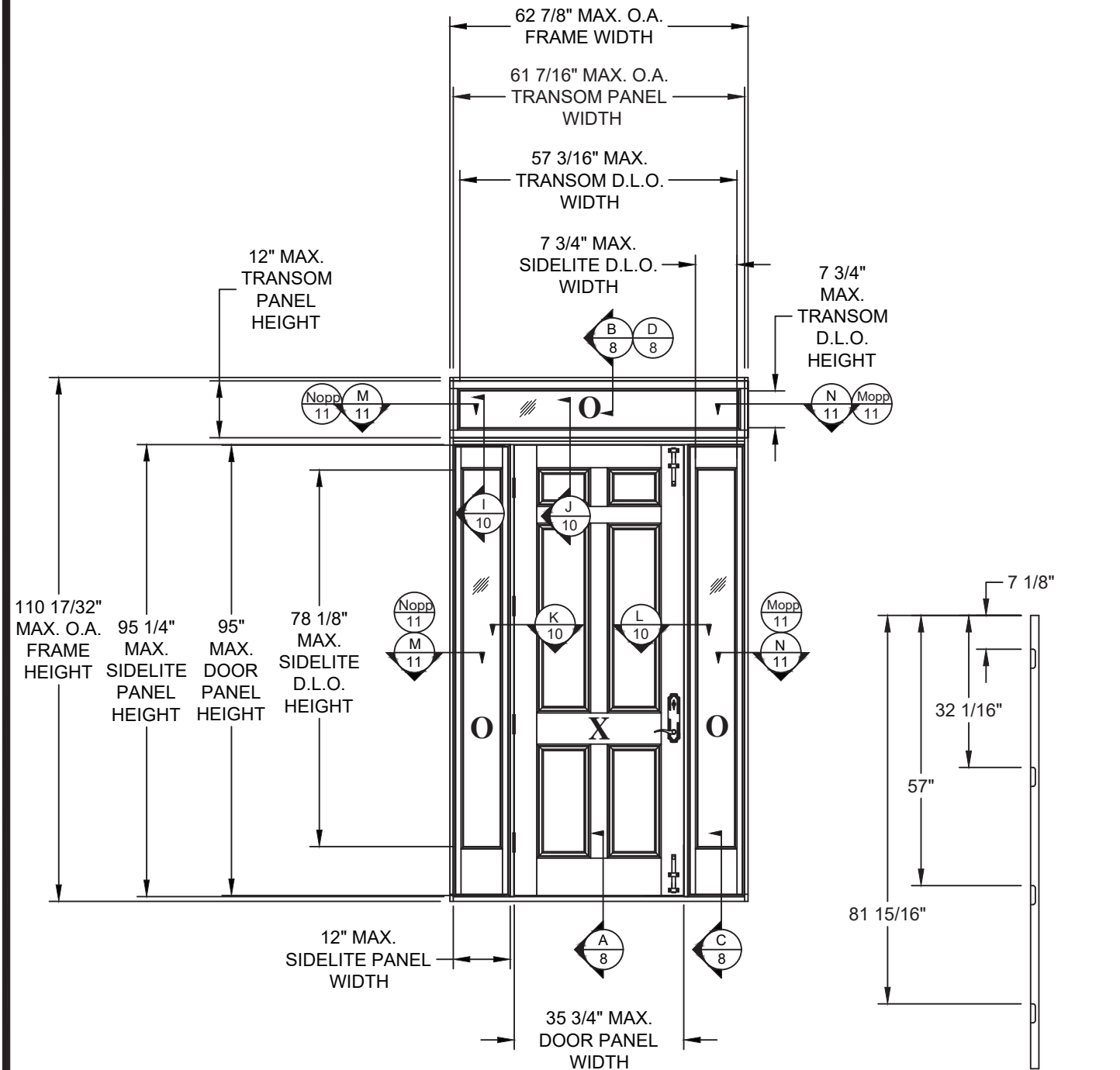
SIGNED/SEALED: 8/14/26

SIMPSON DOOR COMPANY 400 SIMPSON AVE. MCCLEARY, WA 98557			PROJECT NO. ACE-2025-134		
TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM GENERAL AND INSTALLATION NOTES					
PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM		DRAWN BY: RJA		DATE: 6/18/21	
		SCALE: N.T.S.		DRAWING NO: SIMP0020	
		REV: A		SHEET: 1 OF 11	
		A		UPDATE TO THE 9TH EDITION (2026) FBC	
		A		8/14/26	
		REV		DESCRIPTION	
				DATE	
				BY	

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

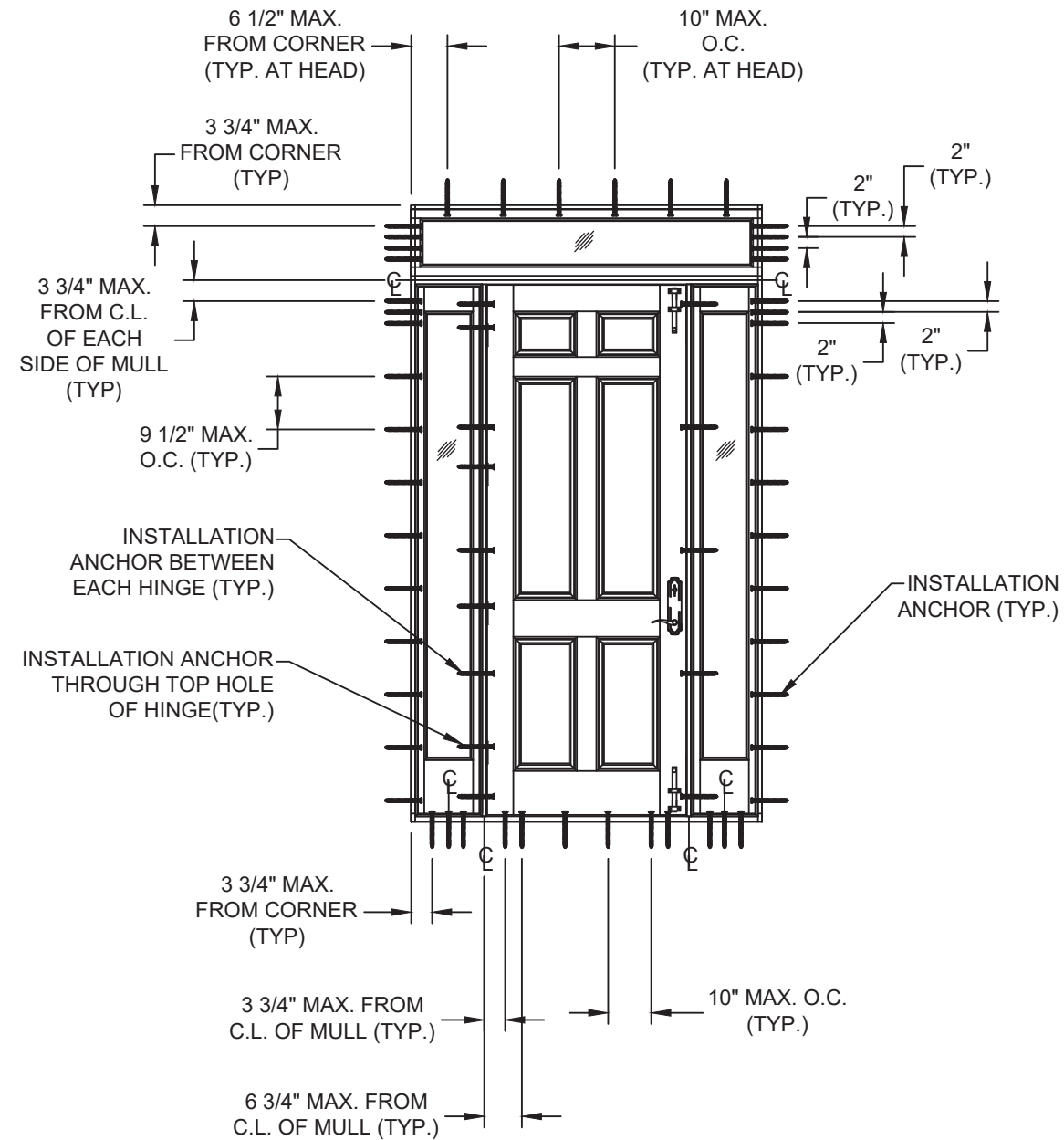


SIGNED/SEALED: 8/14/26



HINGE DETAIL
SIDE VIEW OF DOOR PANEL

ELEVATION
INTERIOR VIEW



ANCHOR LAYOUT
INTERIOR VIEW

PROJECT NO. ACE-2025-134

SIMPSON DOOR COMPANY
400 SIMPSON AVE.
MCCLEARY, WA 98557

TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM
ELEVATION AND ANCHOR LAYOUT

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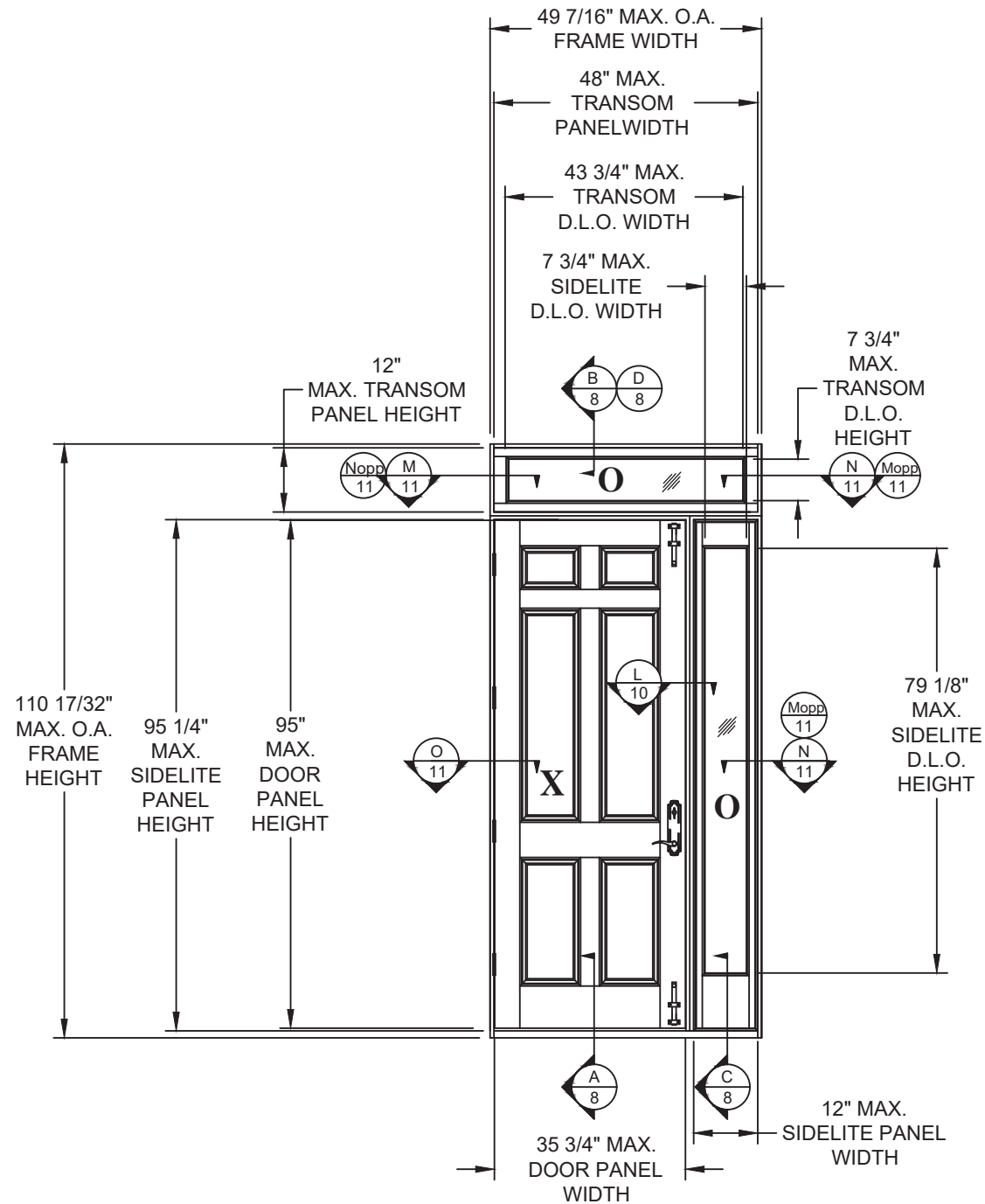
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SCALE: N.T.S.
REV: A

DATE: 6/18/21
DRAWING NO: SIMP0020
SHEET: 2 OF 11

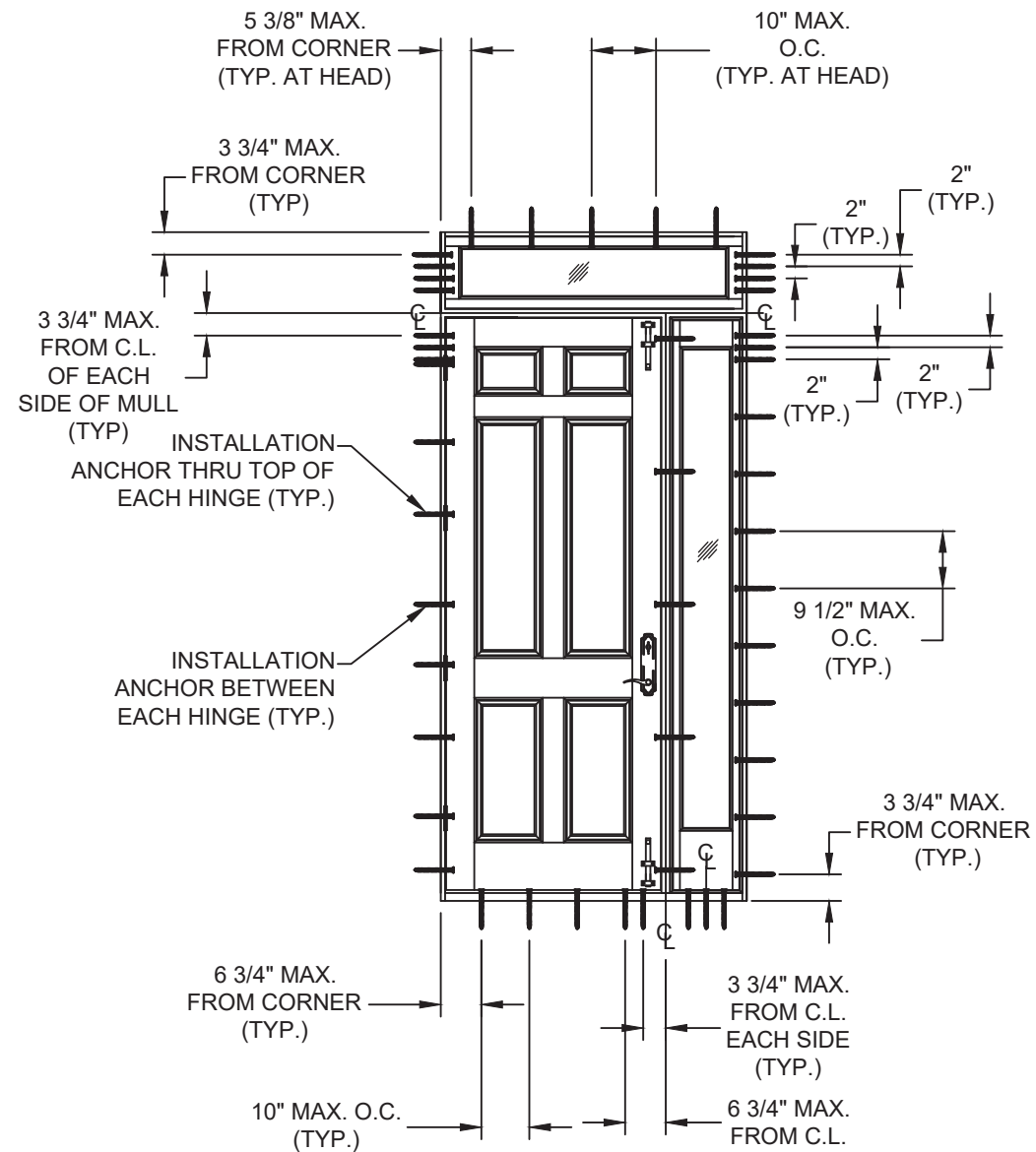
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ELEVATION
INTERIOR VIEW



ANCHOR LAYOUT
INTERIOR VIEW

PROJECT NO. ACE-2025-134					
SIMPSON DOOR COMPANY 400 SIMPSON AVE. MCCLEARY, WA 98557		DRAWN BY: RJA		DATE: 6/18/21	
TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM ELEVATION AND ANCHOR LAYOUT		SCALE: N.T.S.		DRAWING NO: SIMP0020	
		REV: A		SHEET: 3 OF 11	
		PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RIAENGPE@GMAIL.COM			

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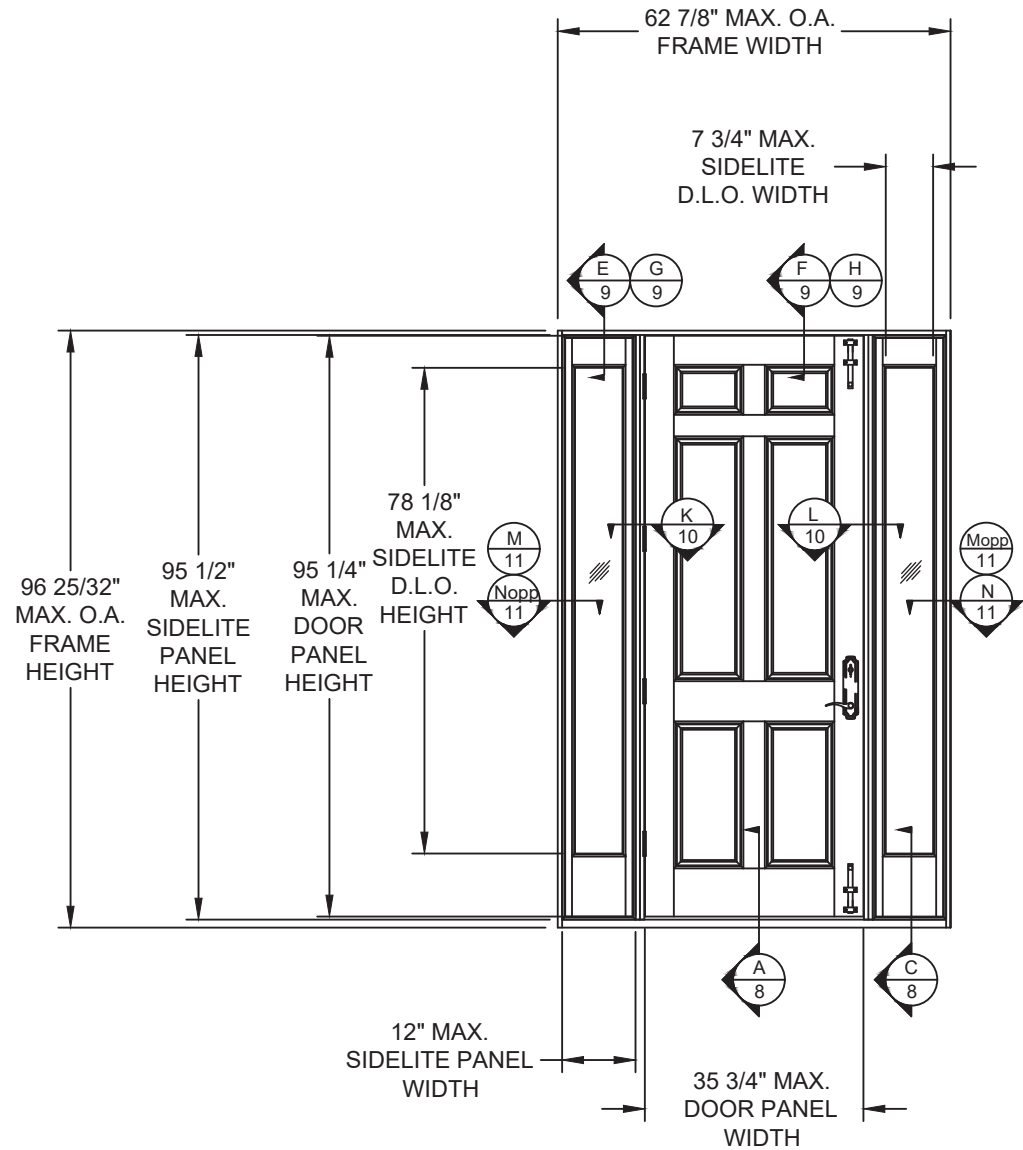
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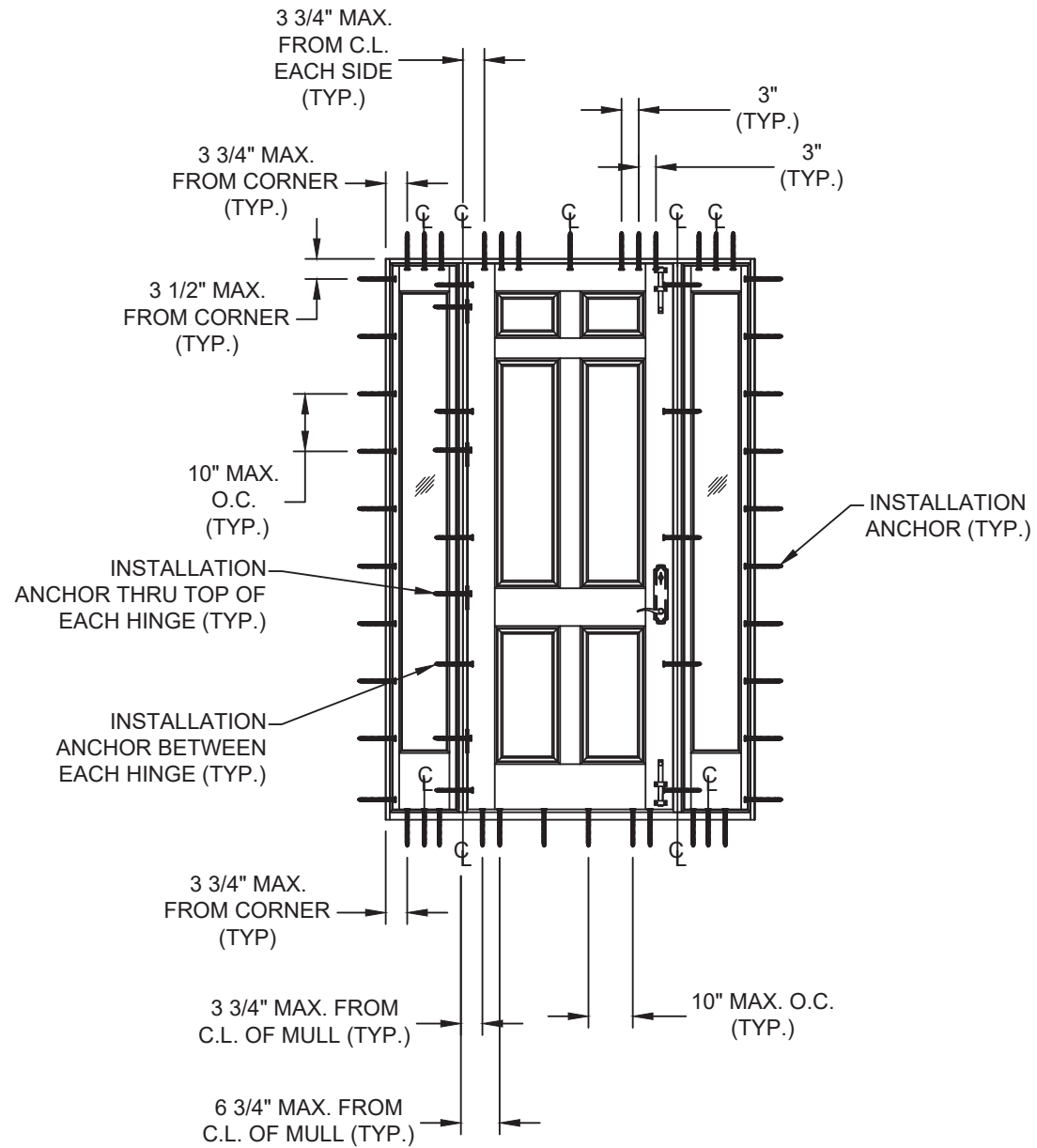
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ELEVATION
INTERIOR VIEW



ANCHOR LAYOUT
EXTERIOR VIEW

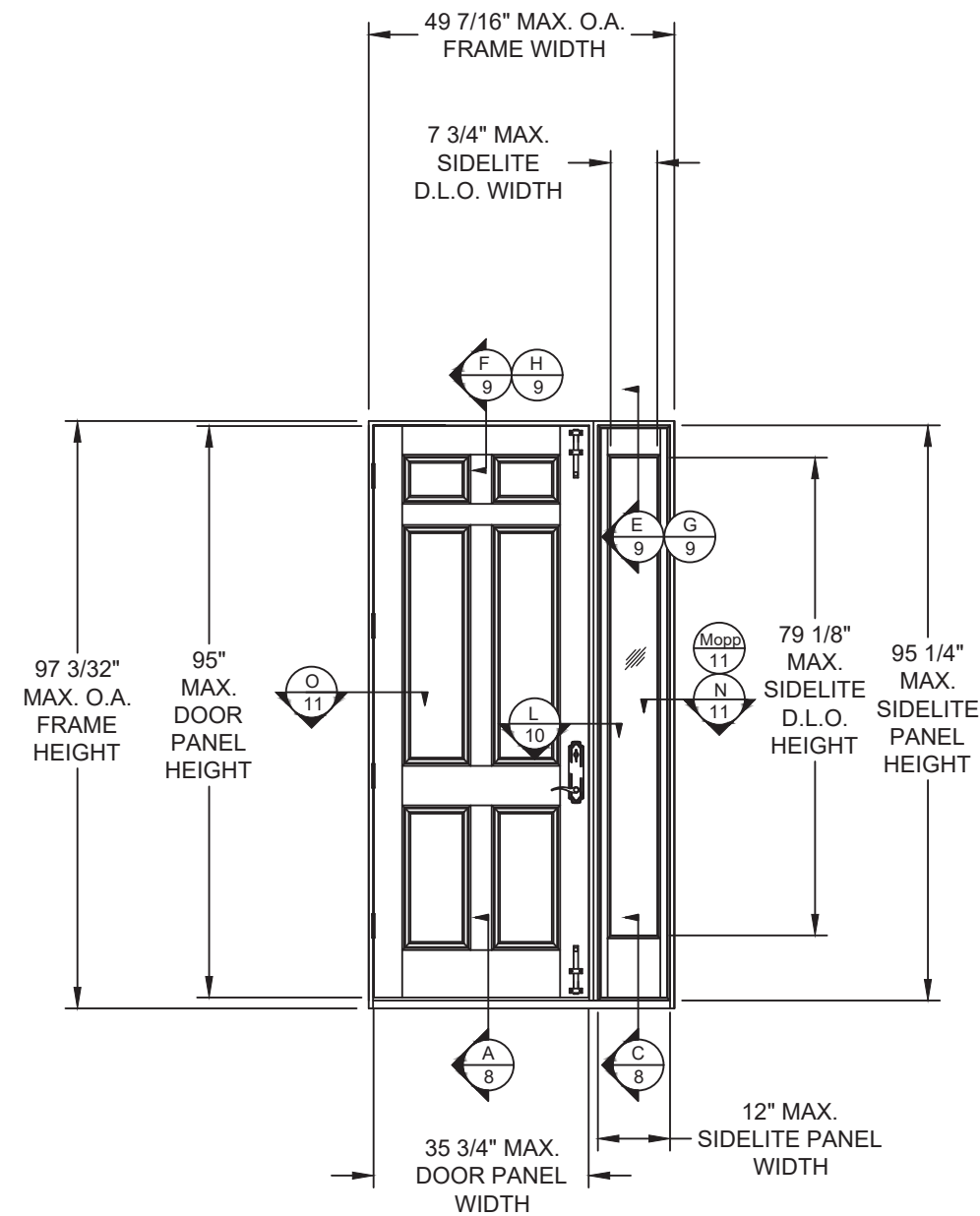
PROJECT NO. ACE-2025-134

SIMPSON DOOR COMPANY 400 SIMPSON AVE. MCCLEARY, WA 98557	TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM ELEVATION AND ANCHOR LAYOUT		DRAWN BY: RJA	DATE: 6/18/21
	PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RIAENGPE@GMAIL.COM		SCALE: N.T.S.	DRAWING NO: SIMP0020
			REV: A	SHEET: 5 OF 11

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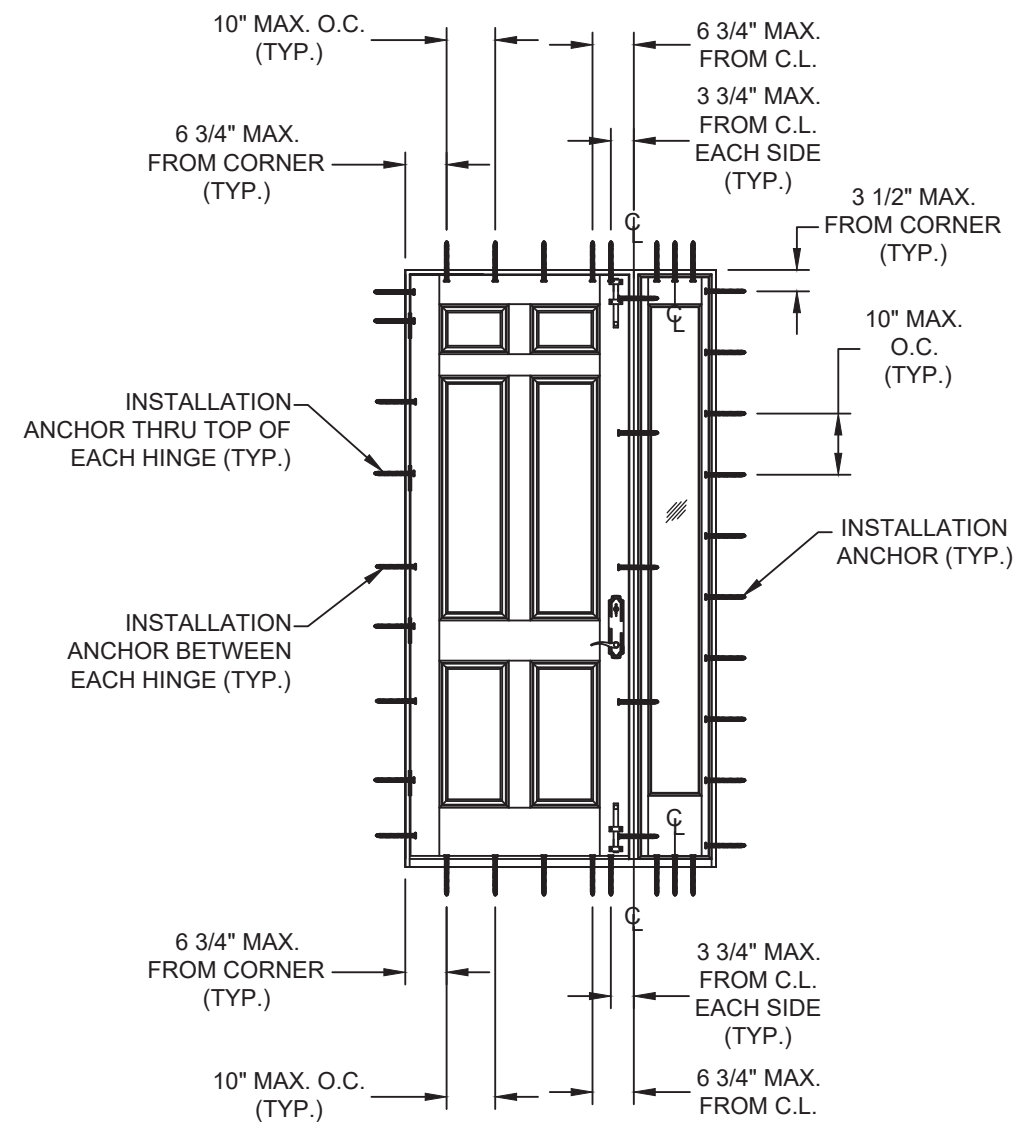


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ELEVATION

INTERIOR VIEW



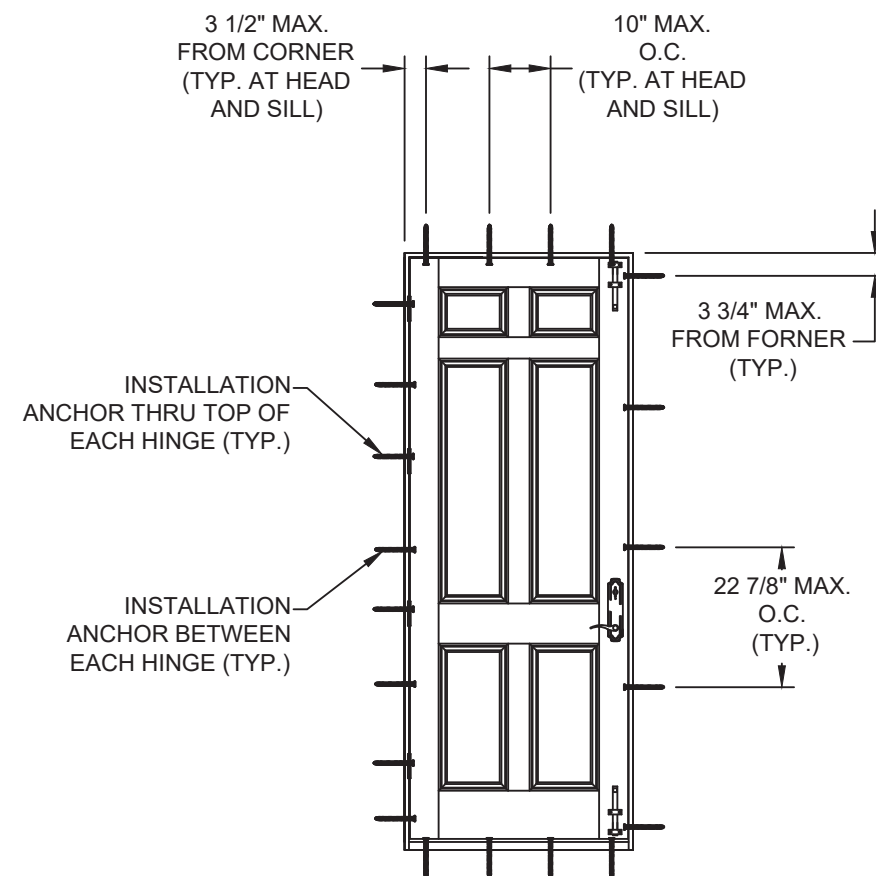
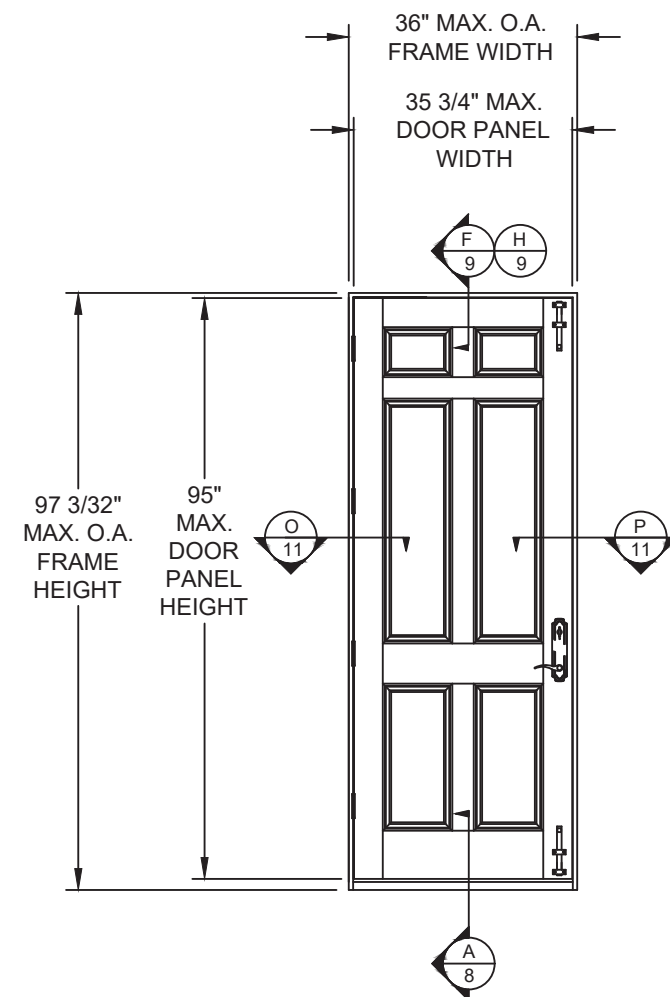
ANCHOR LAYOUT

INTERIOR VIEW

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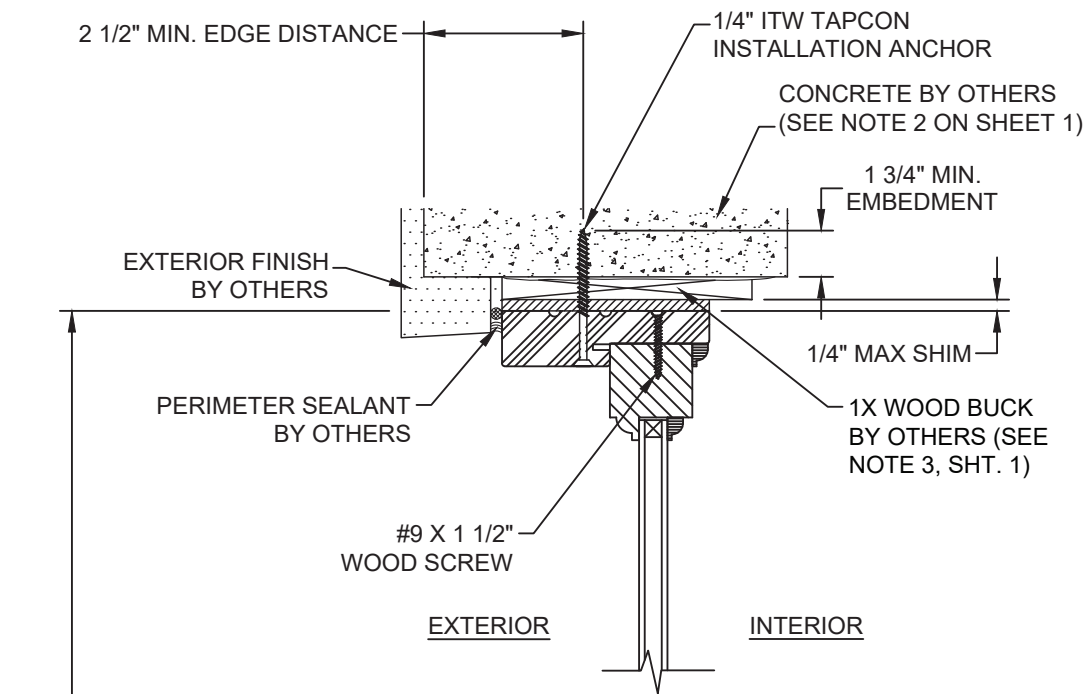


SIMPSON DOOR COMPANY 400 SIMPSON AVE. MCCLEARY, WA 98557				PROJECT NO. ACE-2025-134					
TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM ELEVATION AND ANCHOR LAYOUT				PREPARED BY:	DRAWN BY:	DATE:			
				AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM			RJA	6/18/21	
				SCALE:			N.T.S.	DRAWING NO:	SIMP00020
				REV:			A	SHEET:	7 OF 11
A	UPDATE TO THE 9TH EDITION (2026) FBC	8/14/26	RJA						
REV	DESCRIPTION	DATE	BY						

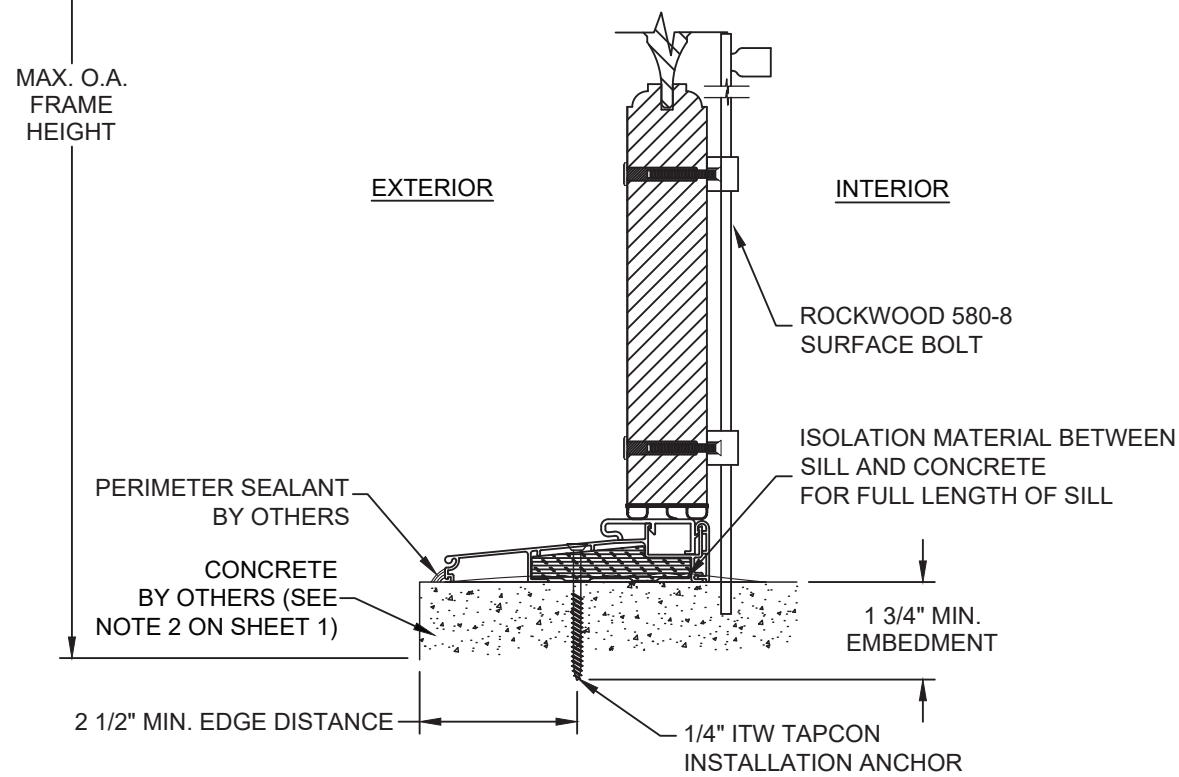
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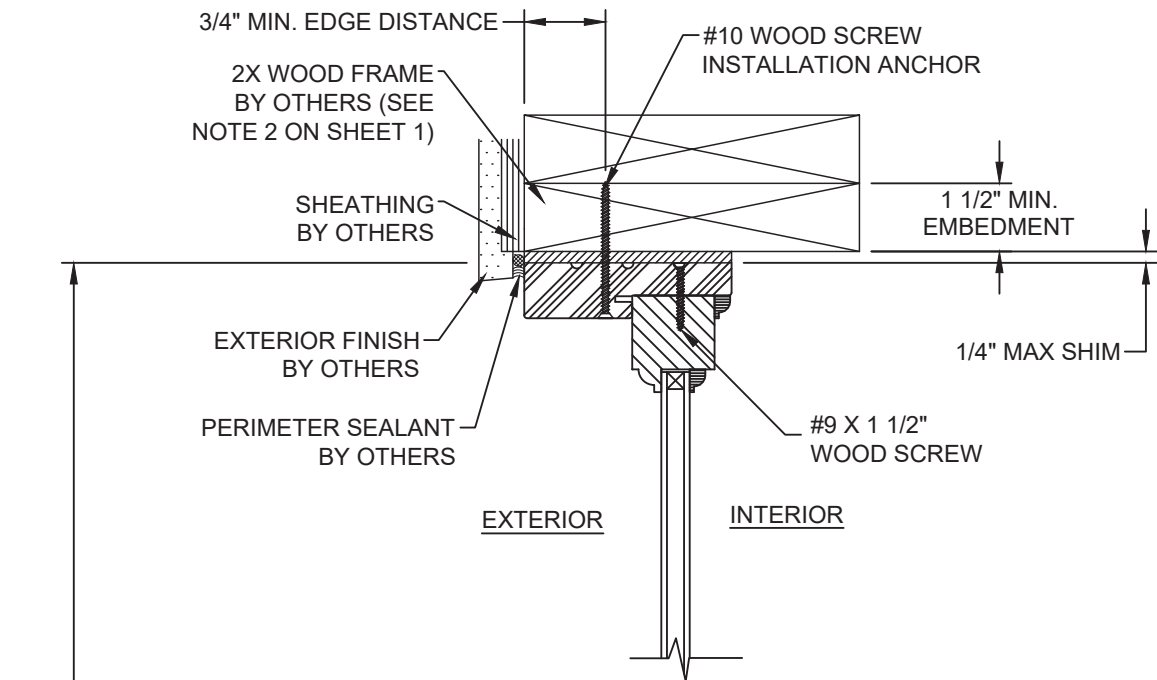
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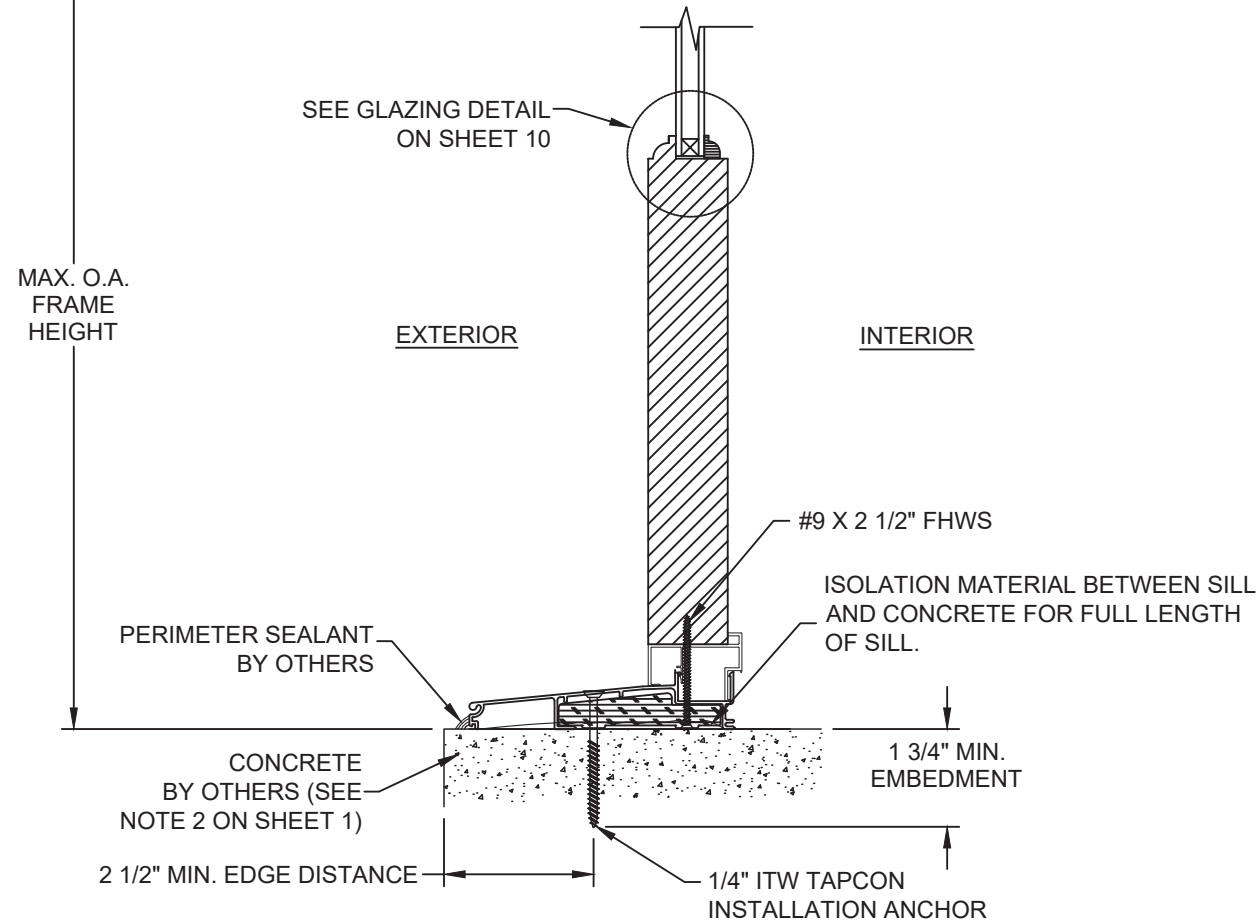
B VERTICAL SECTION
CONCRETE SUBSTRATE
TRANSOM AT HEAD



A VERTICAL SECTION
CONCRETE SUBSTRATE
DOOR PANEL AT SILL



D VERTICAL SECTION
WOOD SUBSTRATE
TRANSOM AT HEAD



C VERTICAL SECTION
CONCRETE SUBSTRATE
SIDELITE AT SILL

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SIMPSON DOOR COMPANY
400 SIMPSON AVE.
MCCLEARY, WA 98557

TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM
VERTICAL SECTIONS

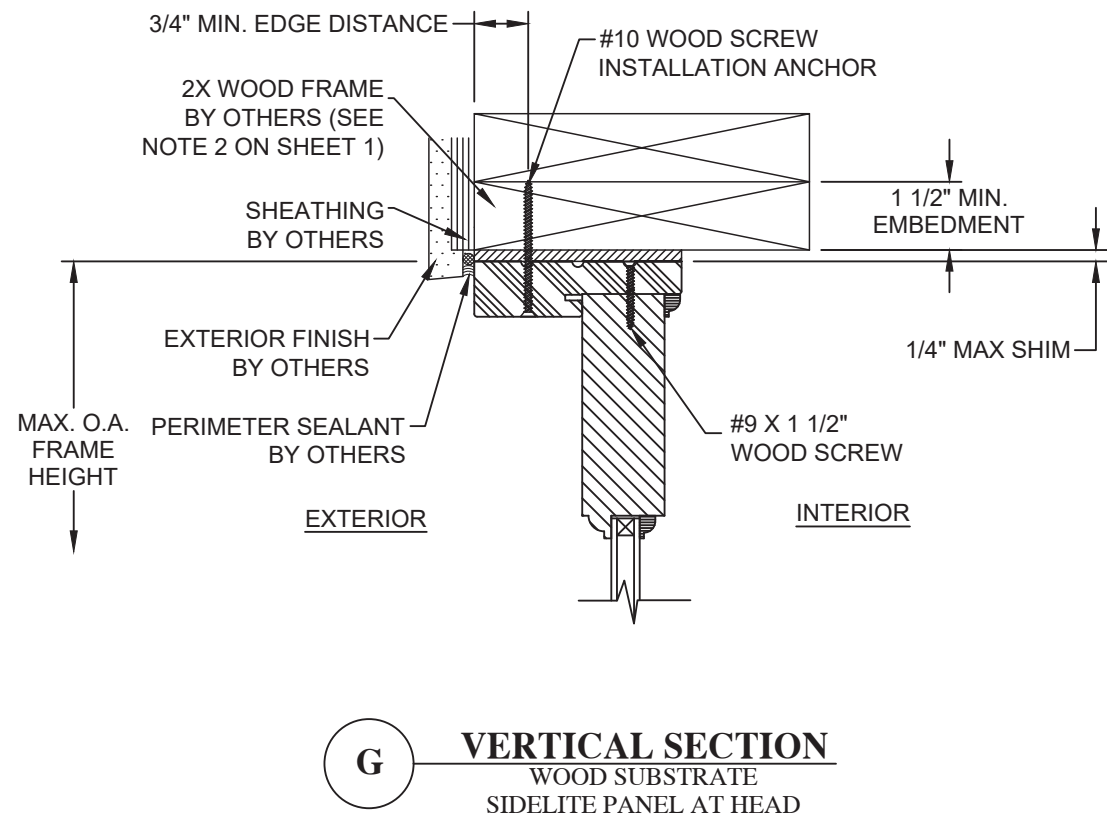
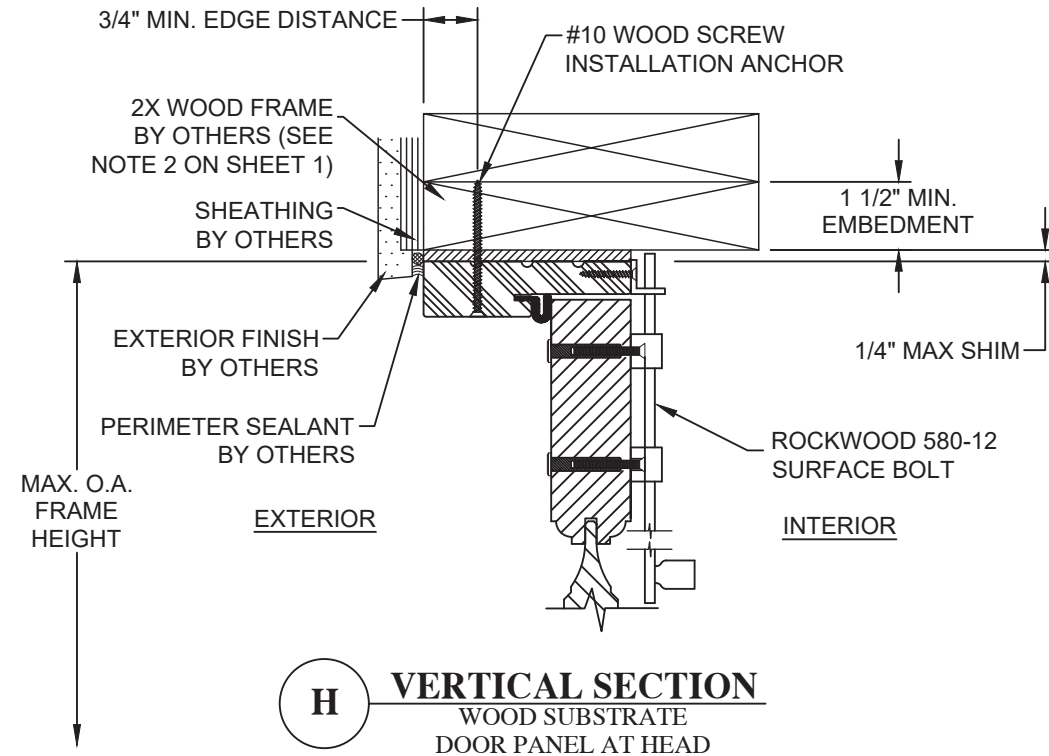
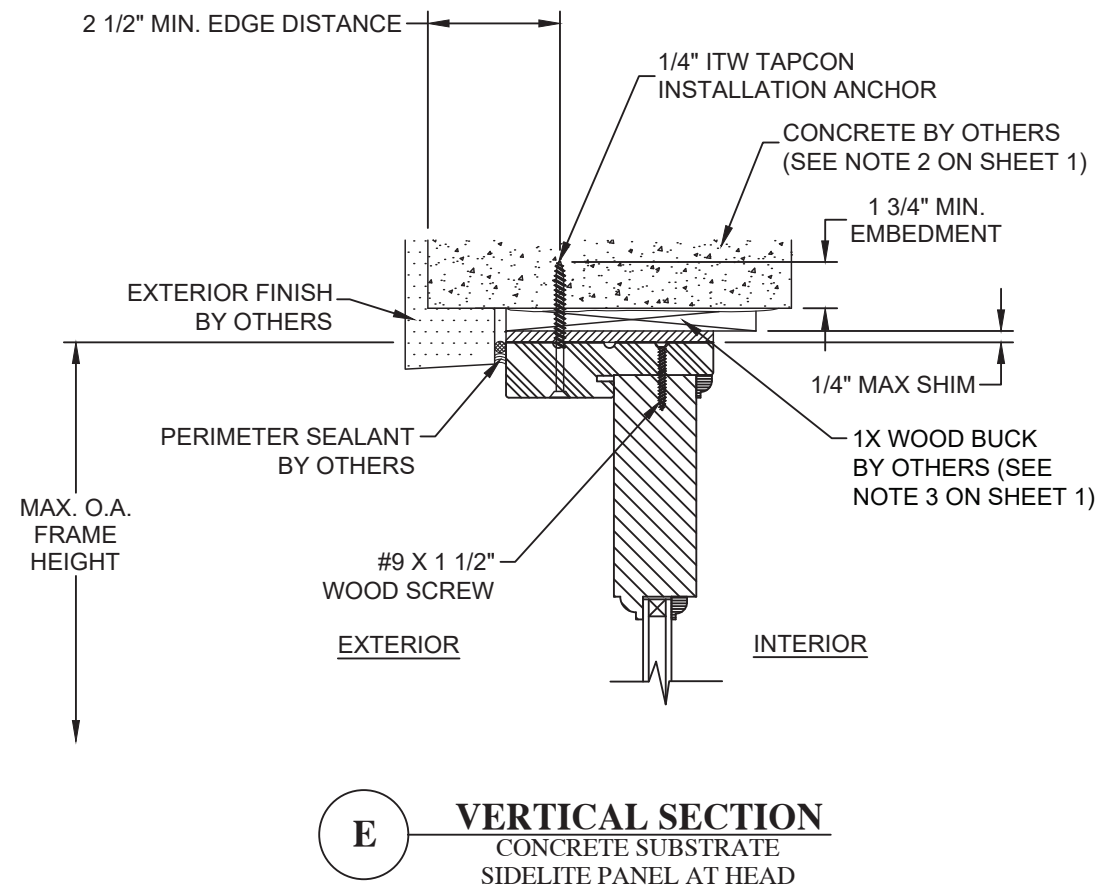
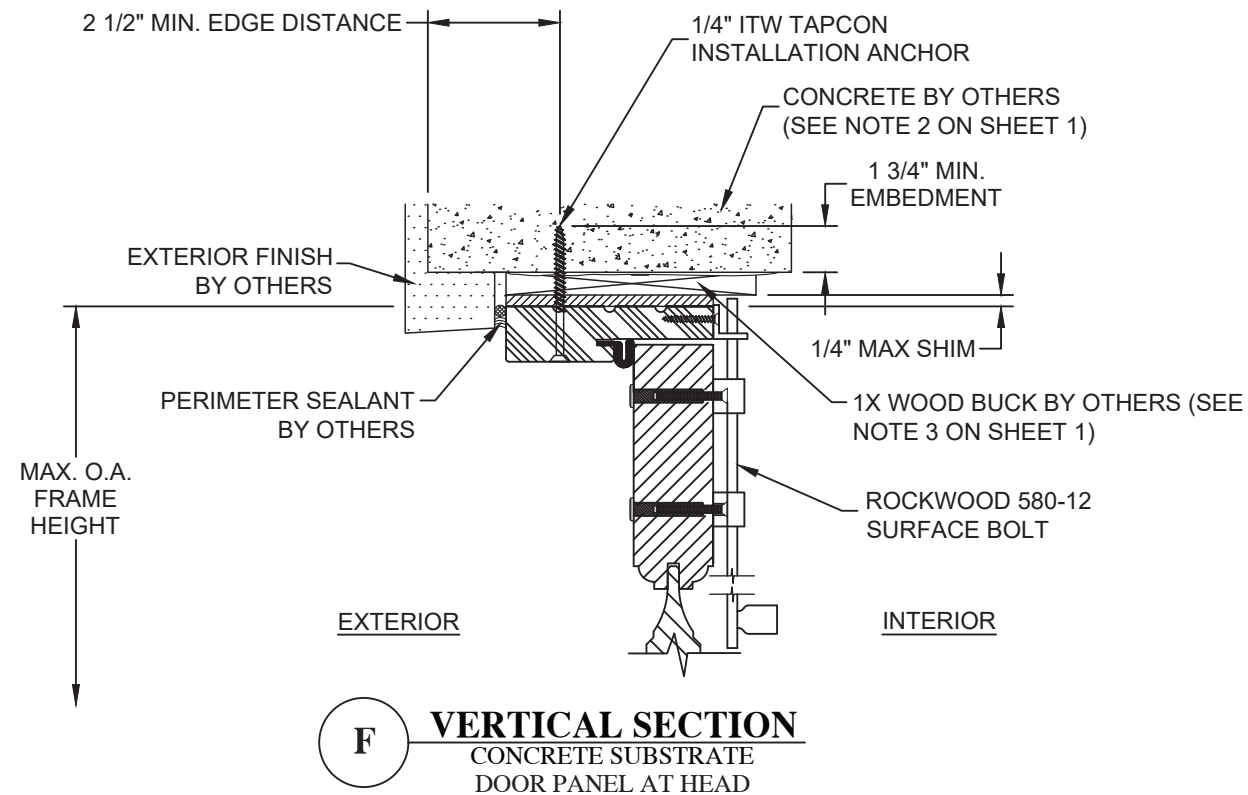
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SCALE:	N.T.S.	DRAWING NO.:	SIMP0020
REV:	A	SHEET:	8 OF 11

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

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VERTICAL SECTIONS

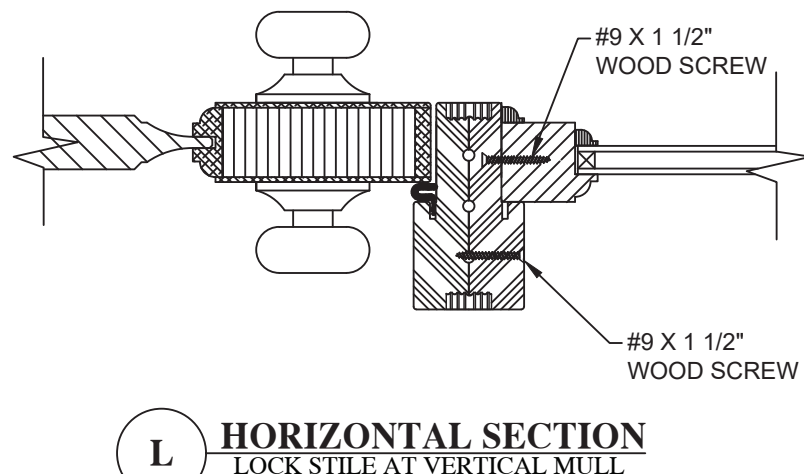
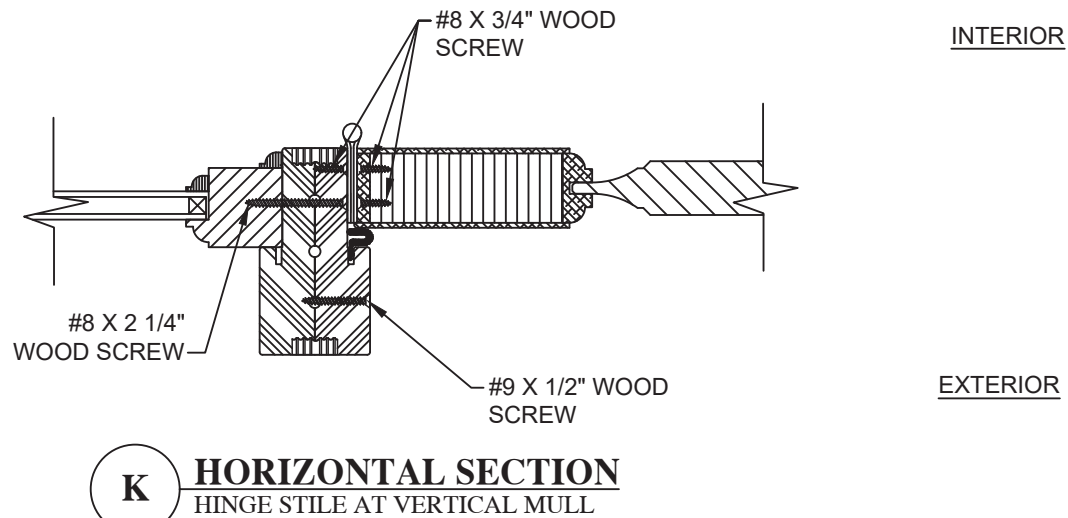
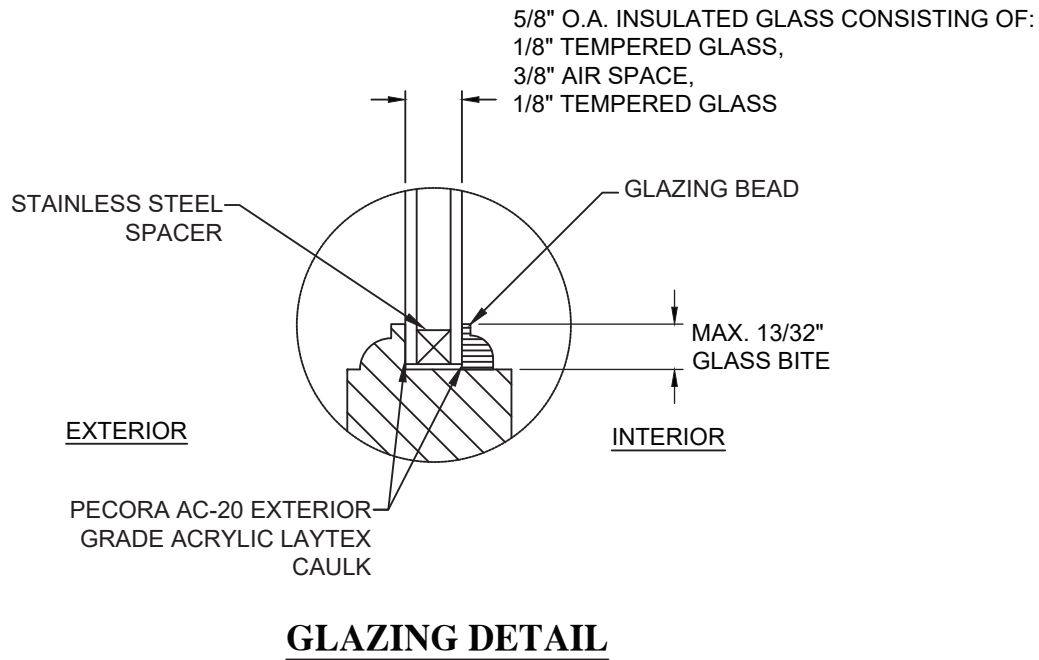
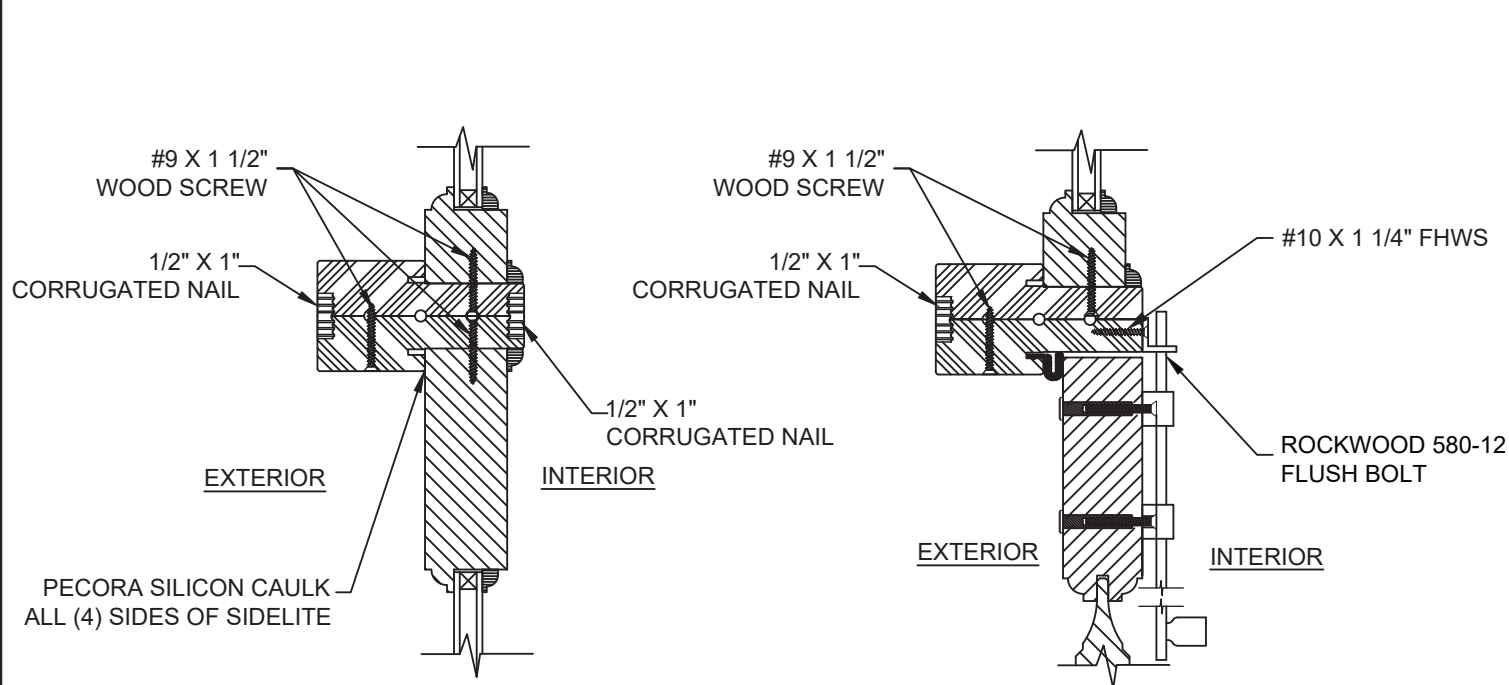
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SCALE:	N.T.S.	DRAWING NO.:	SIMP0020
REV:	A	SHEET:	9 OF 11

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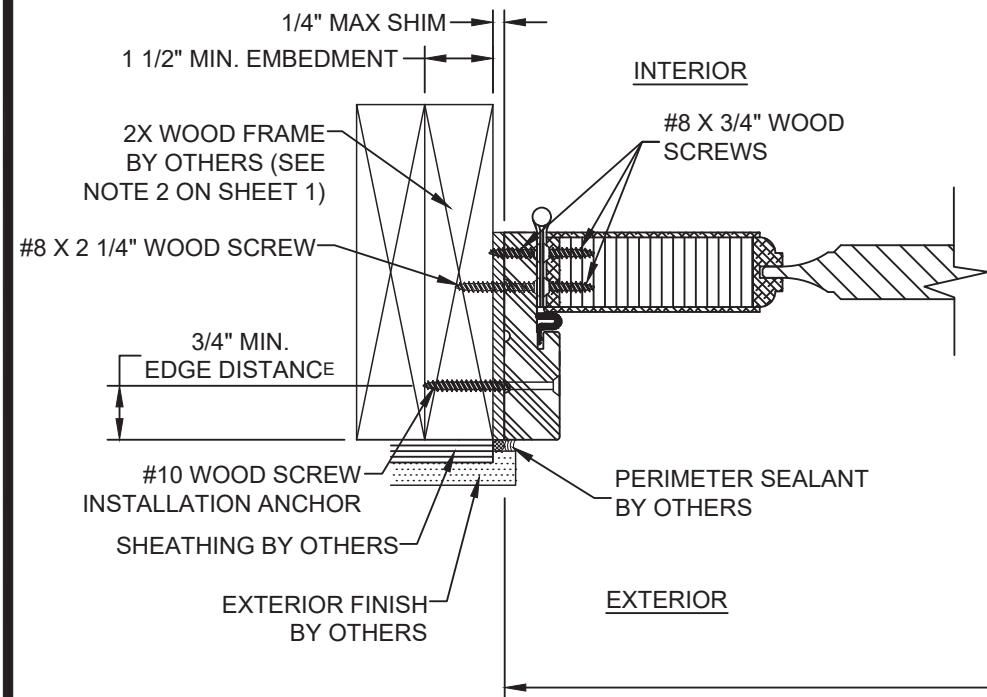
PROJECT NO. ACE-2025-134

SIMPSON DOOR COMPANY 400 SIMPSON AVE. MCCLEARY, WA 98557	TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM VERTICAL & HORIZONTAL SECTIONS, GLAZING DETAIL		DATE: 6/18/21	
	DRAWN BY: RJA	SCALE: N.T.S.	DRAWING NO: SIMP0020	BY: RJA
	PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RIAENGPE@GMAIL.COM	REV: A	SHEET: 10 OF 11	DATE: 8/14/26

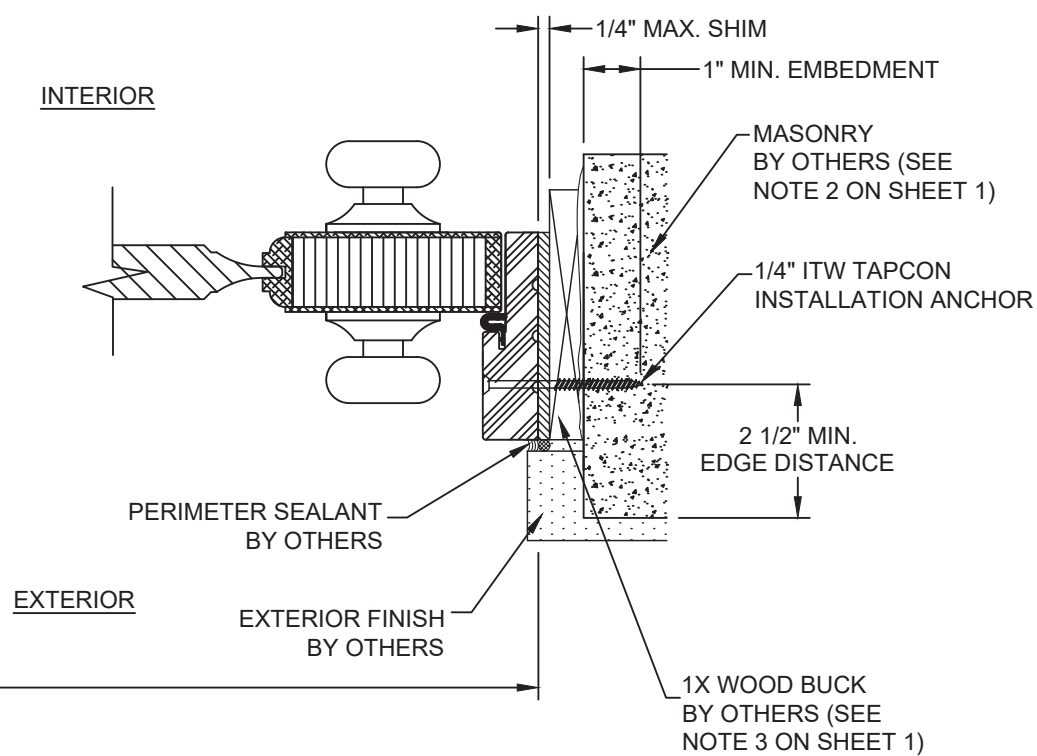
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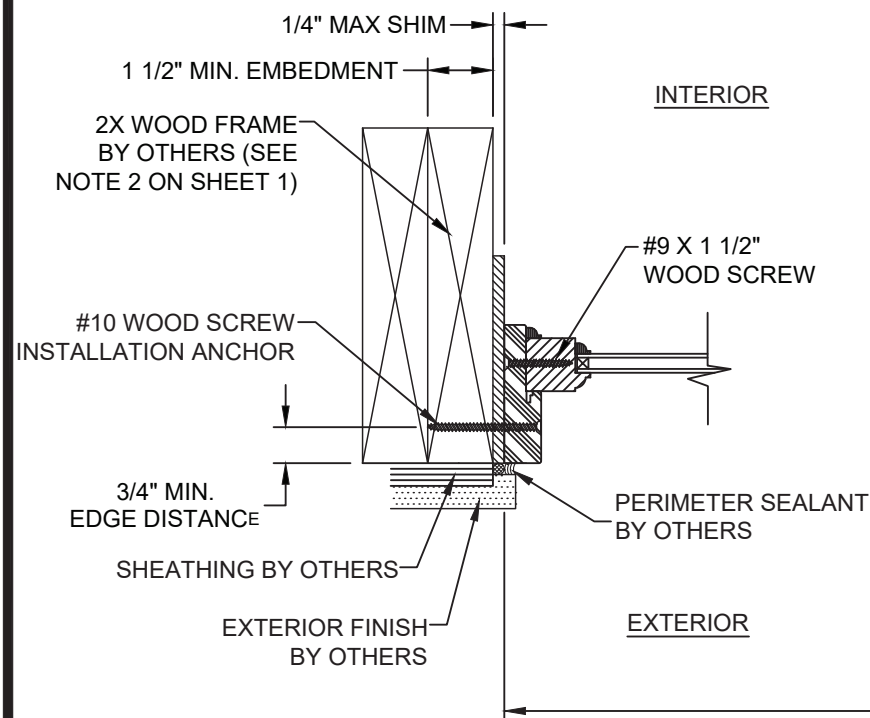
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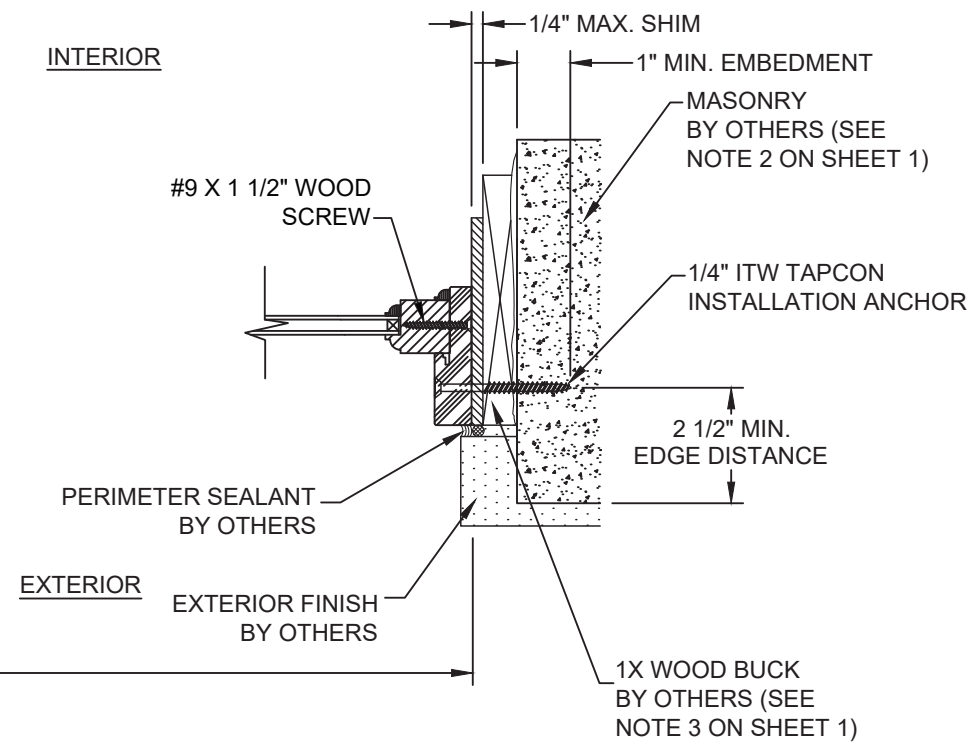
O **HORIZONTAL SECTION**
WOOD SUBSTRATE
DOOR PANEL AT HINGE STILE JAMB



P **HORIZONTAL SECTION**
MASONRY SUBSTRATE
DOOR PANEL AT LOCK STILE JAMB



M **HORIZONTAL SECTION**
WOOD SUBSTRATE
SIDELITE AND TRANSOM JAMBS



N **HORIZONTAL SECTION**
MASONRY SUBSTRATE
SIDELITE AND TRANSOM JAMBS

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TITLE: HEMLOCK FIR I/S DOOR W/ & W/O SIDELITES & TRANSOM
HORIZONTAL SECTIONS

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SCALE: N.T.S.
REV: A

DATE: 6/18/21
DRAWING NO: SIMP0020
SHEET: 11 OF 11

DESCRIPTION
REV

DATE
BY

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