

RENAISSANCE WINDOWS AND DOORS

GENERAL NOTES:

1. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON TEST REPORT NO. 2616T0010, DATED 4/16/25 AND ASSOCIATED LABORATORY DRAWING BY PRI CONSTRUCTION MATERIALS TECHNOLOGIES LLC. TEST REPORT SIGNED AND SEALED BY ZACHARY R. PRIEST, FLORIDA P.E. NO. 74021. PERFORMANCE STANDARDS USED IN TESTING ARE:

1.1. TAS 201-94
1.2. TAS 202-94
1.3. TAS 203-94
2. THIS PRODUCT CAN BE USED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
3. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
4. 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 LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
5. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THIS PRODUCT DOES NOT REQUIRE OPENING PROTECTION IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE USING AN APPROVED IMPACT PROTECTION DEVICE.
6. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. MATERIALS:
7.1. FRAME: VINYL (PVC) BY QUANEX PER CURRENT MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
7.2. GLAZING INTERLAYER: SENTRYGLAS (SG) BY KURARAY AMERICA, INC. PER CURRENT MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
8. GLAZING:
8.1. SEE SHEET 8 FOR GLAZING DETAIL.
8.2. THE IGU'S ARE SET FROM THE EXTERIOR ONTO A BED OF DOW 795 SILICONE, BACKFILLED, AND SECURED WITH RIGID PVC GLAZING BEADS.
8.3. ALL SETTING BLOCKS SHALL BE IN COMPLIANCE WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-16.
8.4. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-16.
9. DESIGNATIONS "X" STANDS FOR OPERABLE LITE/SASH AND "O" STANDS FOR FIXED LITE.
10. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

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PERFORMANCE RATING				
MAXIMUM WINDOW SIZE	ELEVATION	GLAZING DETAIL (SEE SHEET 8)	DESIGN PRESSURE (PSF)	IMPACT RATING
FIN FRAME INSTALLATION NOMINAL 54" x 84"	SHEET 3	A	+/- 55	LMI (HVHZ - LARGE MISSILE IMPACT)
RETRO (THROUGH) FRAME INSTALLATION NOMINAL 54" x 84"	SHEET 4	A	+/- 55	

SERIES 10400 VINYL SINGLE HUNG WINDOW, HVHZ, IMPACT INSTALLATION ANCHORAGE DETAILS

INSTALLATION NOTES:

1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
2. SEE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
2.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
3. SEE SHEETS 5 THROUGH 7 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
4. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
5. ANCHOR QUANTITIES AND SPACING / EMBEDMENT AND EDGE DISTANCE
5.1. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH ELEVATIONS ON SHEETS 3 AND 4.
5.2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE ELEVATIONS ON SHEETS 3 AND 4 ARE ACCEPTABLE.
5.3. FOR WINDOW SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.
5.4. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON THE LOWER OF ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
5.5. SEE EMBEDMENT AND EDGE DISTANCE DESCRIPTION ON SHEET 2.
6. MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
7. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
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 IN THE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 2.

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13340 INTERNATIONAL
PARKWAY
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SERIES 10400 VINYL SINGLE HUNG WINDOW ANCHORAGE DETAILS	DATE				
	BY				
	REVISION DESCRIPTION				
	NO.				

DATE: 4/26/2025	DWN BY: RJA	CHK BY: n/a	SCALE: NONE
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ROBERT J. AMORUSO, P.E. #49752
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PROJECT#:	ACE-2025-110
DWG/REV:	RWD034, Rev 0
SHT:	1 of 10

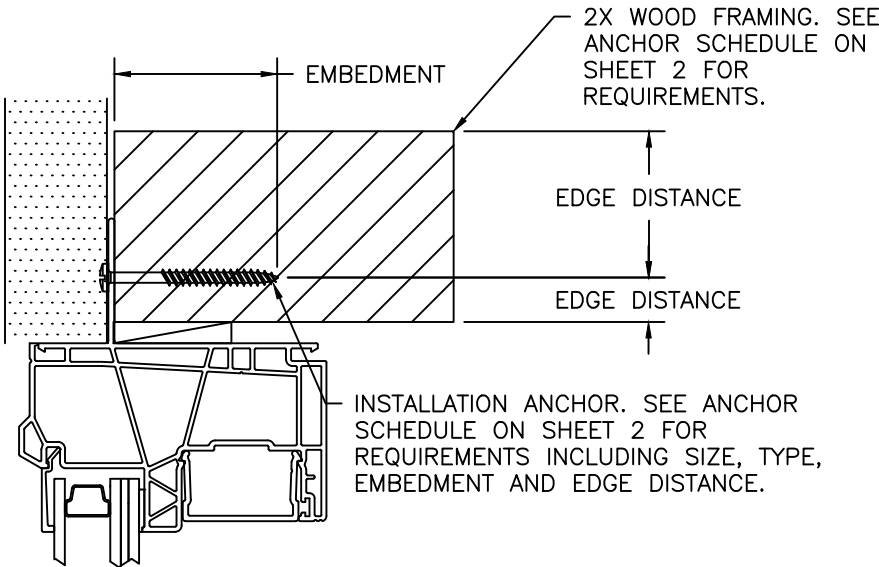
ANCHOR SCHEDULE							
ANCHORING METHOD	SUBSTRATE	SCREW HEAD TYPE (3)	SCREW SIZE	MANUFACTURER AND/OR SPECIFICATION (1)(2)	EMBEDMENT (IN)	EDGE DISTANCE (IN)	ANCHOR CAPACITIES BASED ON THE FOLLOWING SUBSTRATE STRENGTHS
THROUGH FRAME	CONCRETE	HEX OR PAN HEAD	3/16"	ITW TAPCONS	1-1/2"	1-1/8"	MIN. 2500 PSI CONCRETE
	MASONRY (BLOCK/CMU)	HEX OR PAN HEAD	3/16"	ITW TAPCONS	1"	2"	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN
	WOOD	PAN HEAD	NO. 10	ANSI B18.6.1 (WOOD SCREW)	1-1/2"	1"	WOOD WITH A MINIMUM SPECIFIC GRAVITY 0.42 (NON-HVHZ) AND 0.55 (HVHZ)
			NO. 10	ASME B18.6.4 (TAPPING SCREW)	1-1/2"	1"	
	STEEL STUD	PAN HEAD	NO. 10	ASME B18.6.4 (GRADE 5 TAPPING SCREW) Type AB Threads (requires pilot hole) or Self-Drilling (drill shaped point)	At least three full threads protrude into the interior of the steel stud.	3/8"	STEEL STUD, MIN. 20 GA. 33 MIL., 0.0329 INCH Fy = 33 KSI MIN. AND Fu = 45 KSI MIN.
FIN FRAME (NAILING FINE)	WOOD	PAN HEAD	NO. 8	ANSI B18.6.1 (WOOD SCREW)	1-1/2"	1/2"	WOOD WITH A MINIMUM SPECIFIC GRAVITY 0.42 (NON-HVHZ) AND 0.55 (HVHZ)
			NO. 8	ASME B18.6.4 (TAPPING SCREW)	1-1/2"	1/2"	

NOTES:

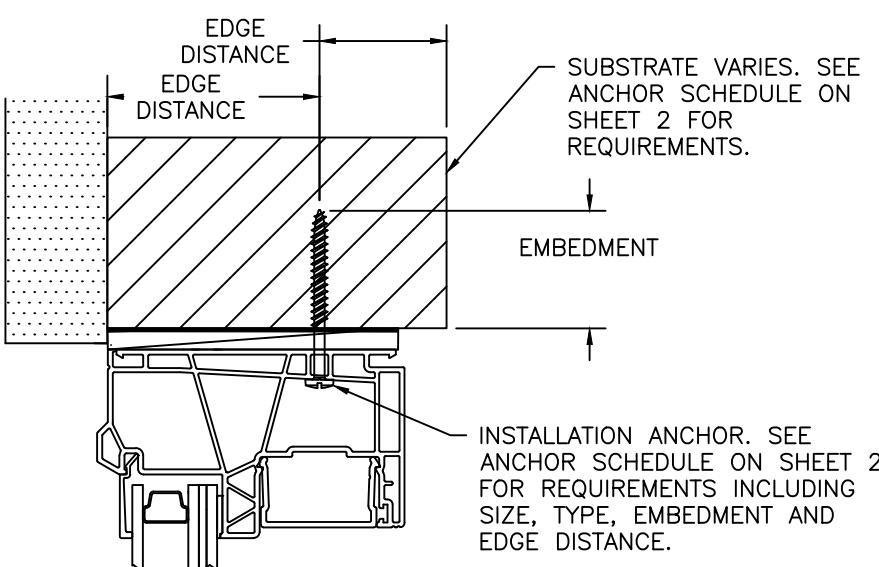
(1) ITW (ADVANCED THREADFORM TECHNOLOGY) TAPCONS WILL BE USED FOR CONCRETE/MASONRY INSTALLATION.

(2) WOOD FRAME SUBSTRATE ANCHORS USE NO. 8 OR 10 WOOD SCREWS (ANSI B18.6.1) OR NO. 8 OR 10 TAPPING SCREWS (ANSI B16.8.4) WITH MIN. GRADE 2 STRENGTH.

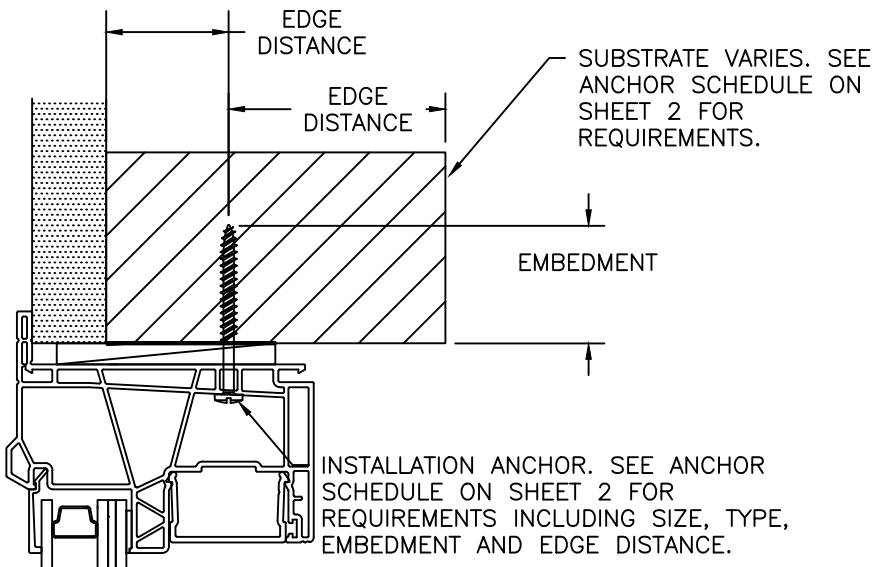
(3) HEX (CONCRETE/MASONRY) OR PAN HEAD PREFERRED, FLAT HEAD ACCEPTABLE FOR THROUGH FRAME; NOT ACCEPTABLE FOR FIN FRAME.



EMBEDMENT AND EDGE DISTANCE
NAILING FIN FRAME INSTALLATION
(SHOWN W/O FLANGE)



EMBEDMENT AND EDGE DISTANCE
THROUGH-FRAME INSTALLATION



EMBEDMENT AND EDGE DISTANCE
FLANGE THROUGH-FRAME INSTALLATION

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SERIES 10400 VINYL SINGLE HUNG WINDOW ANCHORAGE DETAILS	DATE				
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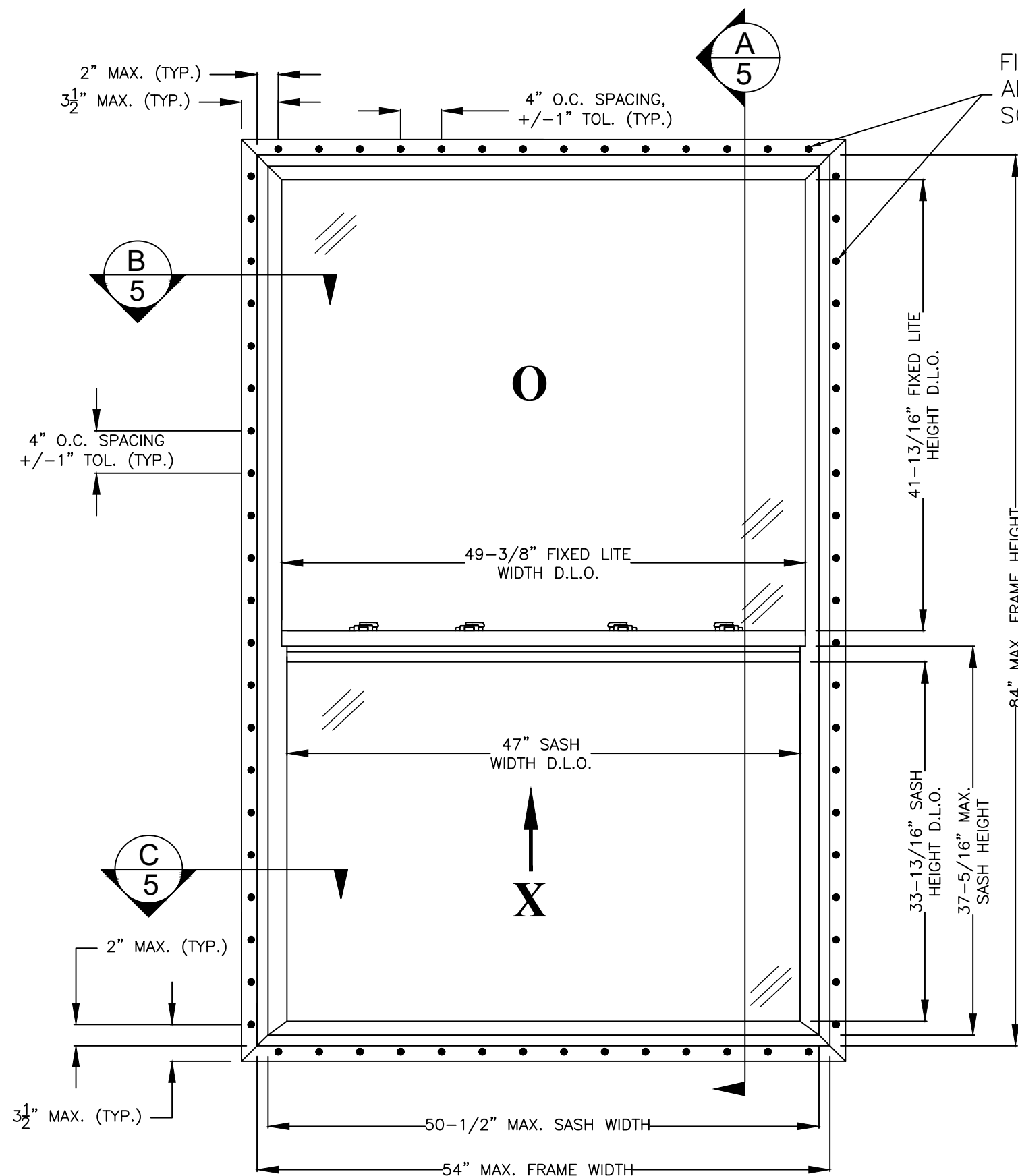
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DWG/REV:	RWD034, Rev 0
SHT:	2 of 10



FIN FRAME INSTALLATION
ANCHOR. SEE ANCHOR
SCHEDULE ON SHEET 2.

● DENOTES FIN FRAME
ANCHOR LOCATION

ANCHOR QUANTITY AT MAX. NOMINAL WINDOW SIZE
OF 120" x 48" AT SPACING SHOWN ABOVE ARE: QTY
PER JAMB IS TWENTY ONE (21) AND QTY PER HEAD
AND SILL IS FOURTEEN (14).
SEE INSTALLATION NOTE 5.3 ON SHEET 1 FOR
DETAILS ON SMALLER WINDOW SIZES.

ANCHOR SPACING LOCATION TOLERANCE IS +/- 1"
FOR ON CENTER SPACING.

SERIES 10400 VINYL SINGLE HUNG WINDOW
EXTERIOR VIEW
54" X 84" NOMINAL SIZE
FIN FRAME ANCHOR LOCATIONS AND QUANTITIES

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SERIES 10400 VINYL SINGLE HUNG WINDOW ANCHORAGE DETAILS	DATE				
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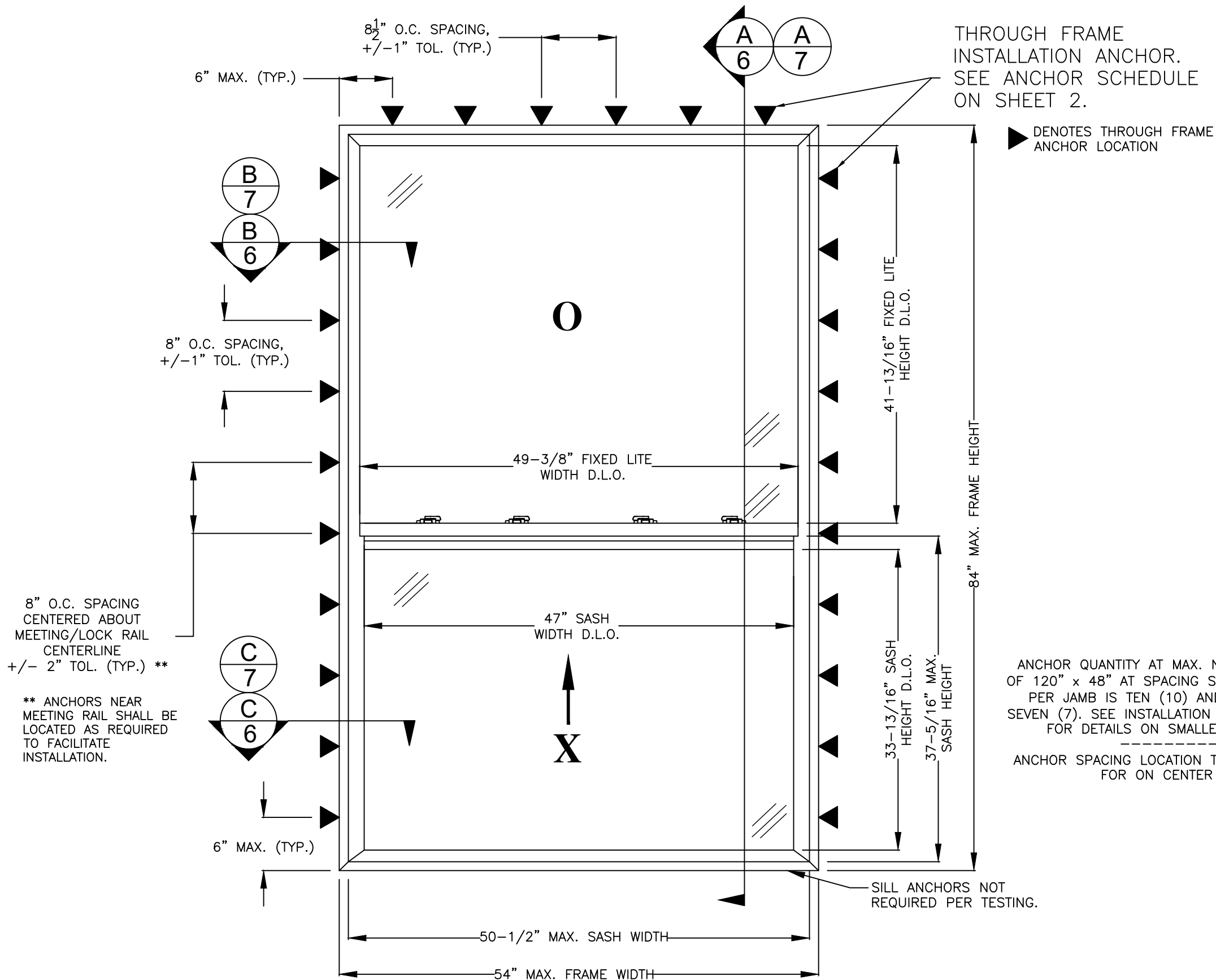
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SHT:	3 of 10



SERIES 10400 VINYL SINGLE HUNG WINDOW

EXTERIOR VIEW

54" X 84" NOMINAL SIZE

THROUGH FRAME ANCHOR LOCATIONS AND QUANTITIES (EQUAL LEG AND FLANGE FRAME)

THROUGH FRAME
INSTALLATION ANCHOR.
SEE ANCHOR SCHEDULE
ON SHEET 2.

▶ DENOTES THROUGH FRAME
ANCHOR LOCATION

ANCHOR QUANTITY AT MAX. NOMINAL WINDOW SIZE
OF 120" x 48" AT SPACING SHOWN ABOVE ARE: QTY
PER JAMB IS TEN (10) AND QTY PER HEAD IS
SEVEN (7). SEE INSTALLATION NOTE 5.3 ON SHEET 1
FOR DETAILS ON SMALLER WINDOW SIZES.

ANCHOR SPACING LOCATION TOLERANCE IS +/- 1"
FOR ON CENTER SPACING.

SILL ANCHORS NOT
REQUIRED PER TESTING.

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SERIES 10400 VINYL SINGLE HUNG WINDOW
ANCHORAGE DETAILS

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SHT:	4 of 10

SERIES 10400 VINYL SINGLE HUNG WINDOW
ANCHORAGE DETAILS

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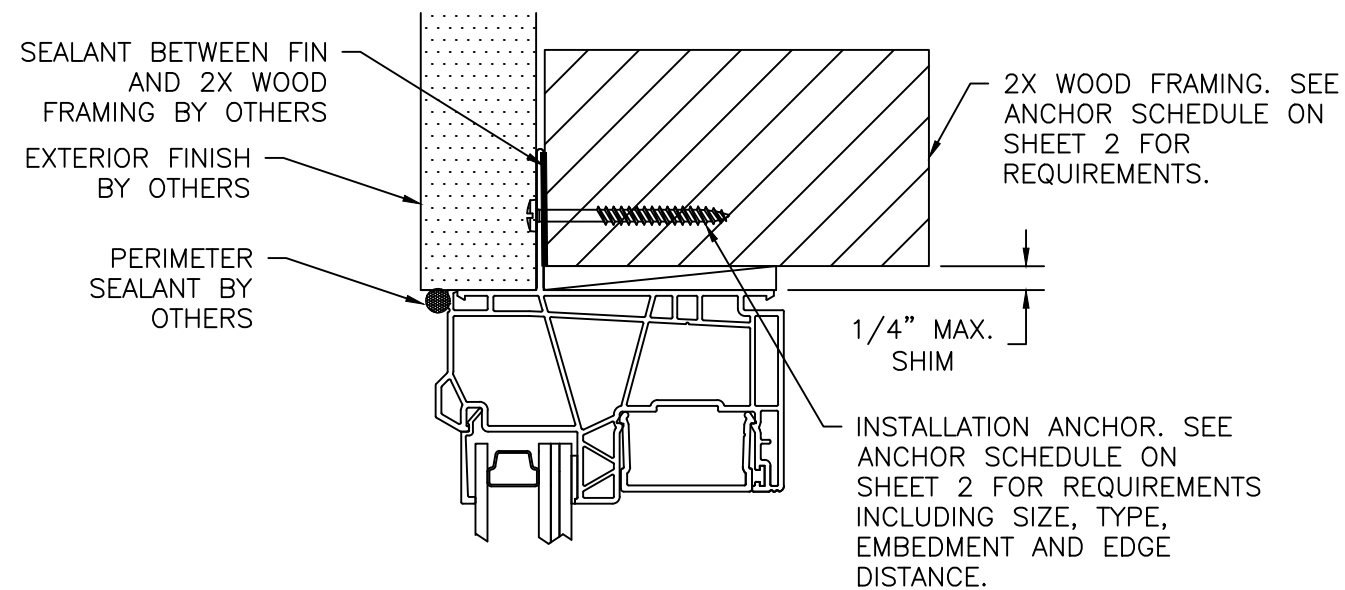
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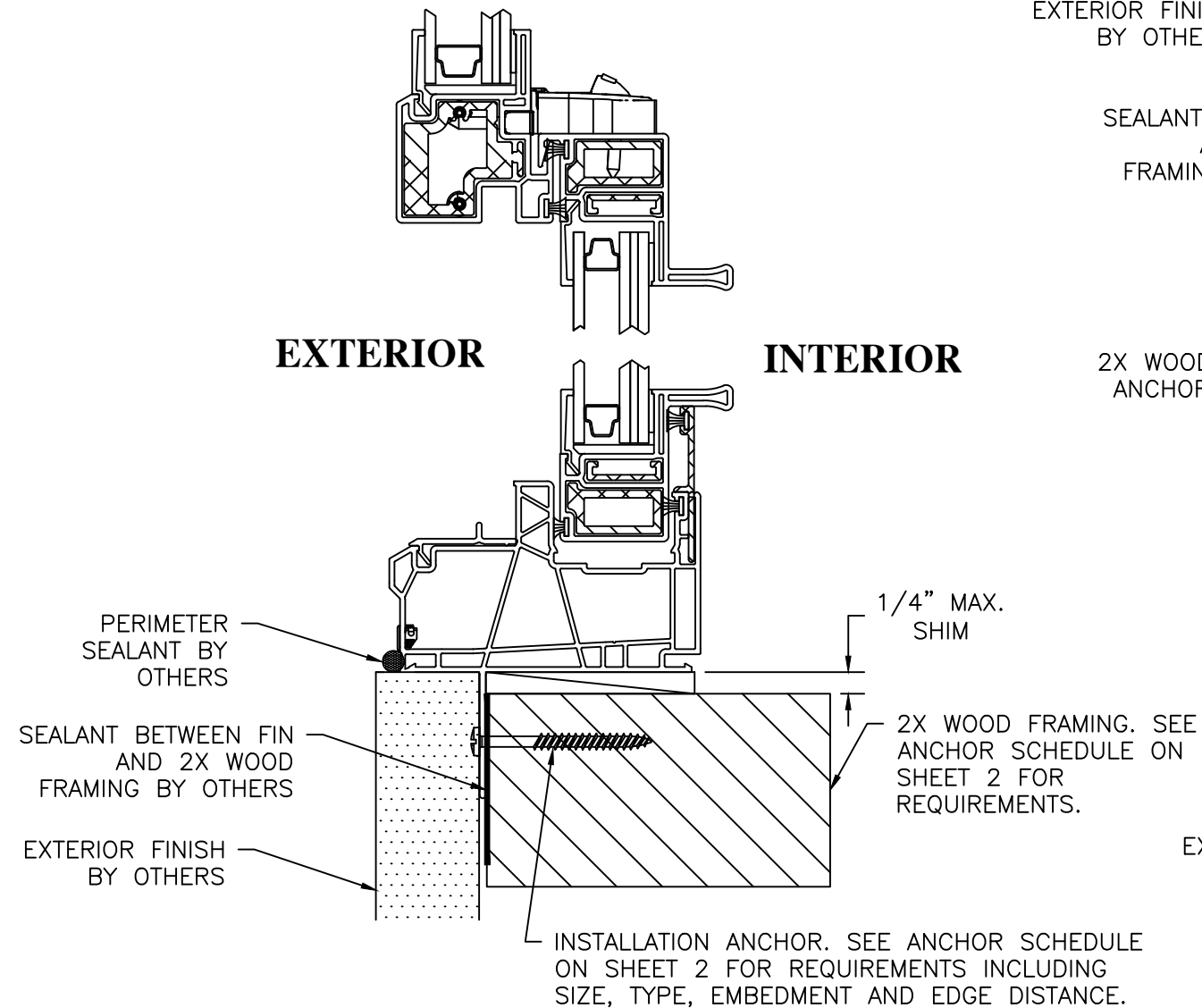
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PROJECT#:	ACE-2025-110
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SHT:	5 of 10

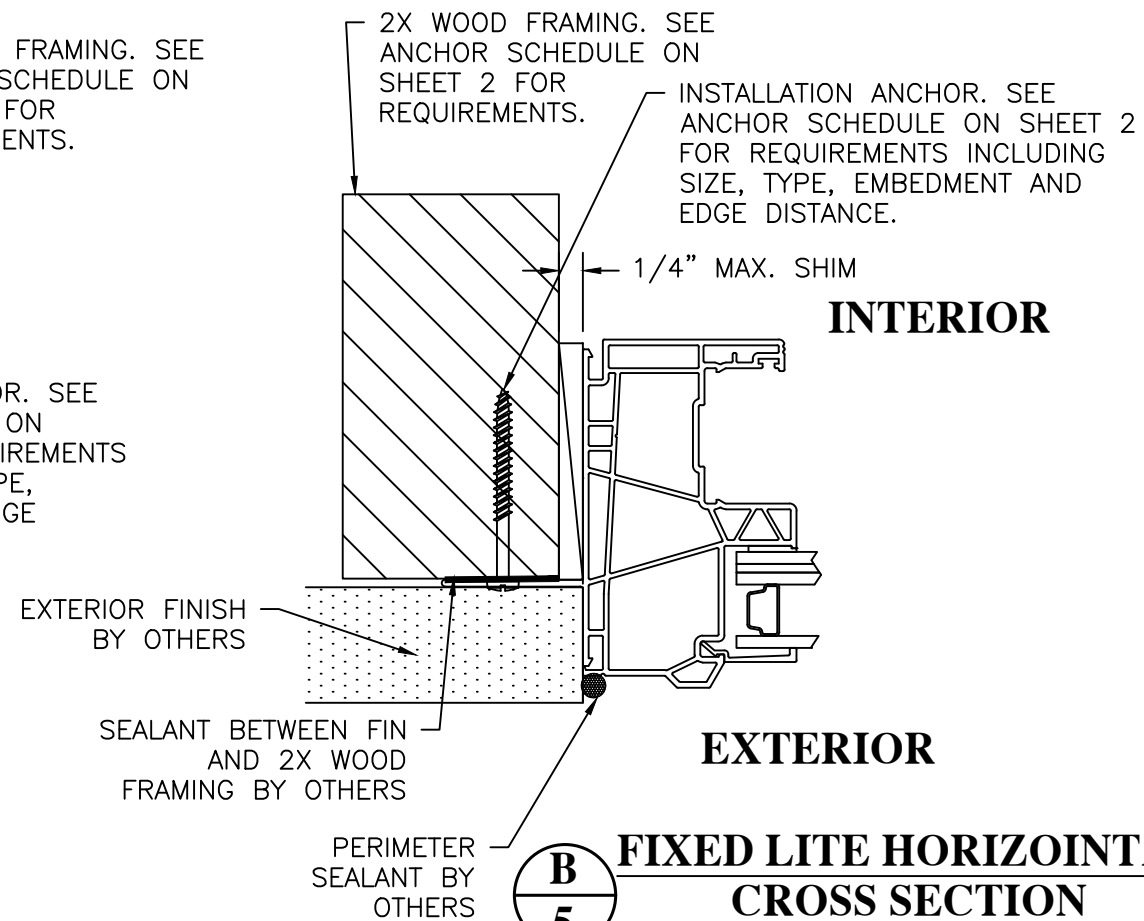


EXTERIOR

INTERIOR



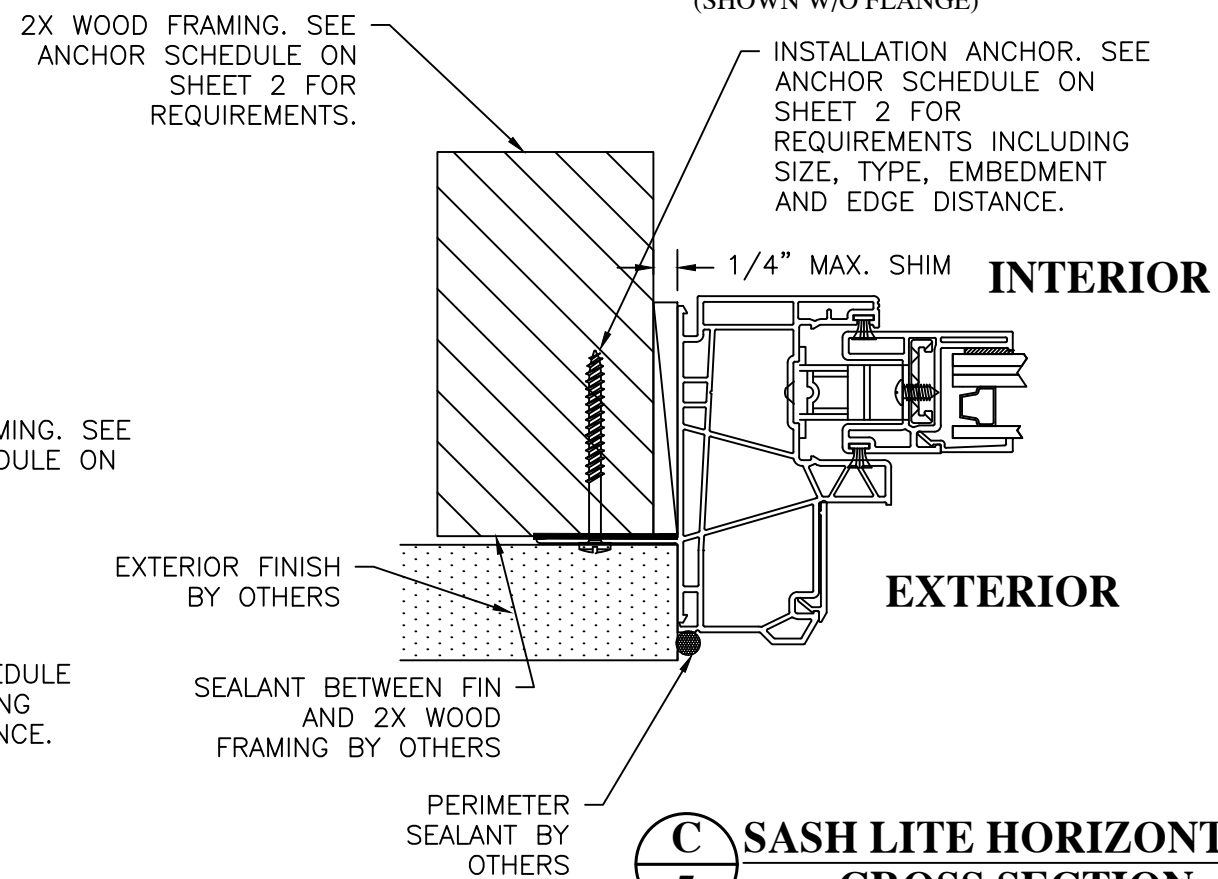
A
5 **VERTICAL CROSS SECTION**
NAILING FIN FRAME INSTALLATION
(SHOWN W/O FLANGE)



INTERIOR

EXTERIOR

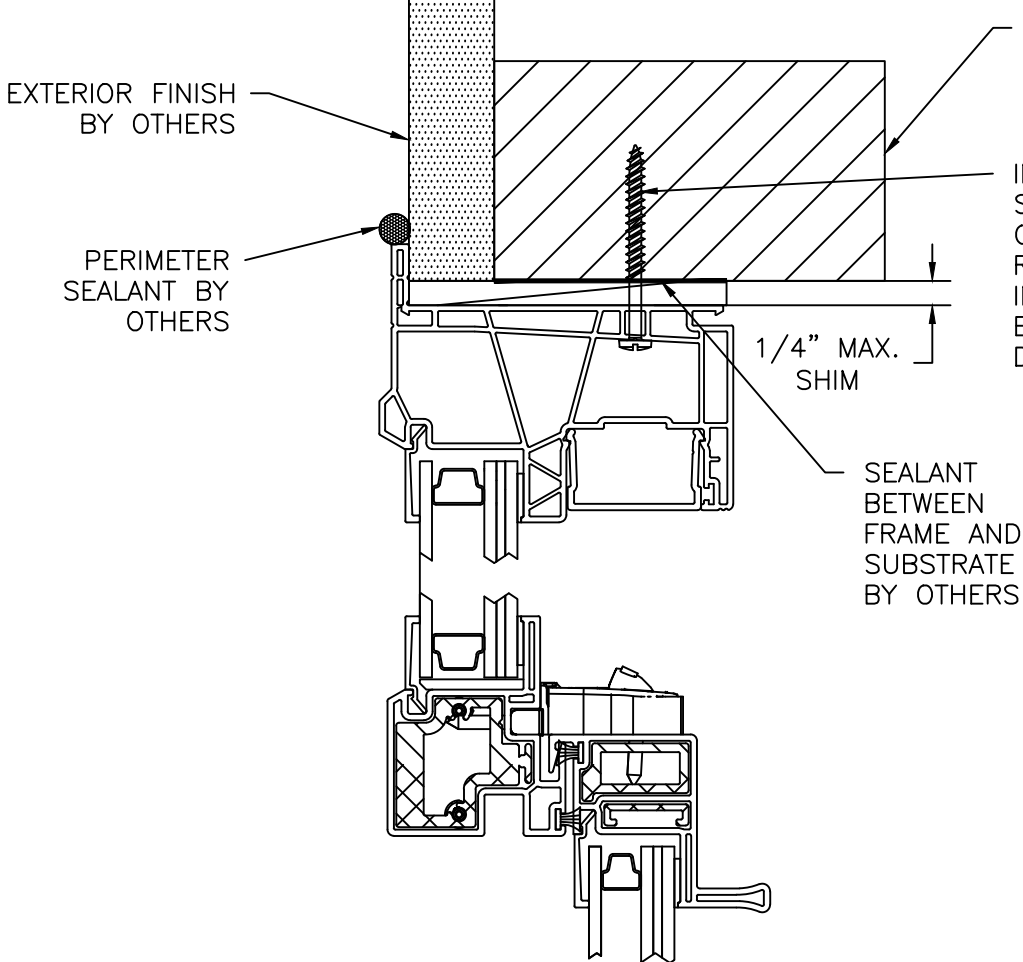
B
5 **FIXED LITE HORIZONTAL CROSS SECTION**
NAILING FIN FRAME INSTALLATION
(SHOWN W/O FLANGE)



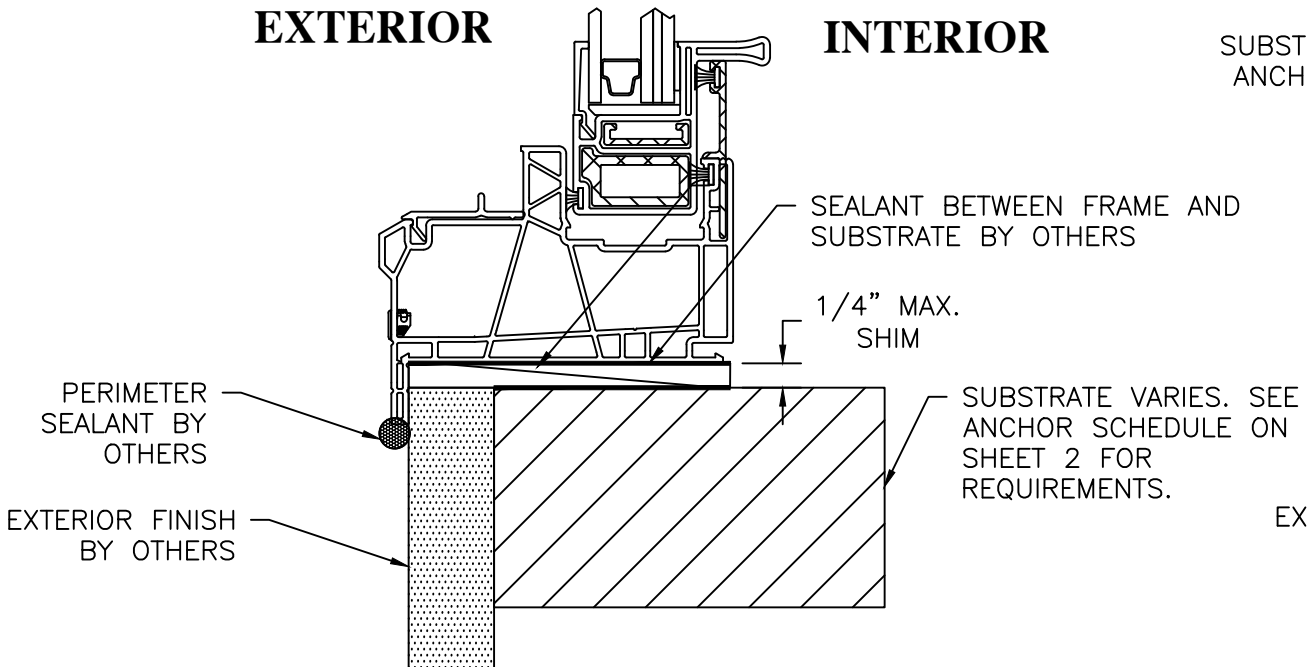
INTERIOR

EXTERIOR

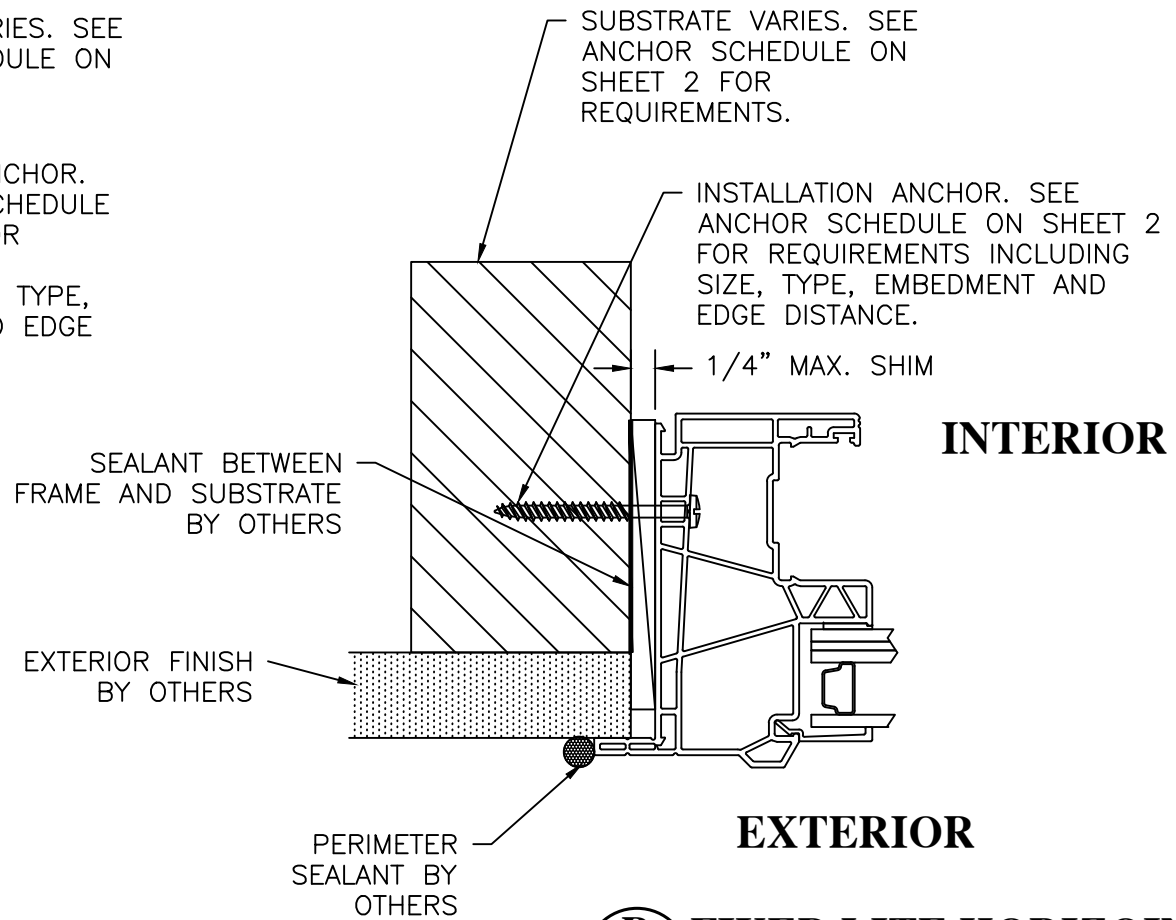
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5 **SASH LITE HORIZONTAL CROSS SECTION**
NAILING FIN FRAME INSTALLATION
(SHOWN W/O FLANGE)



EXTERIOR **INTERIOR**



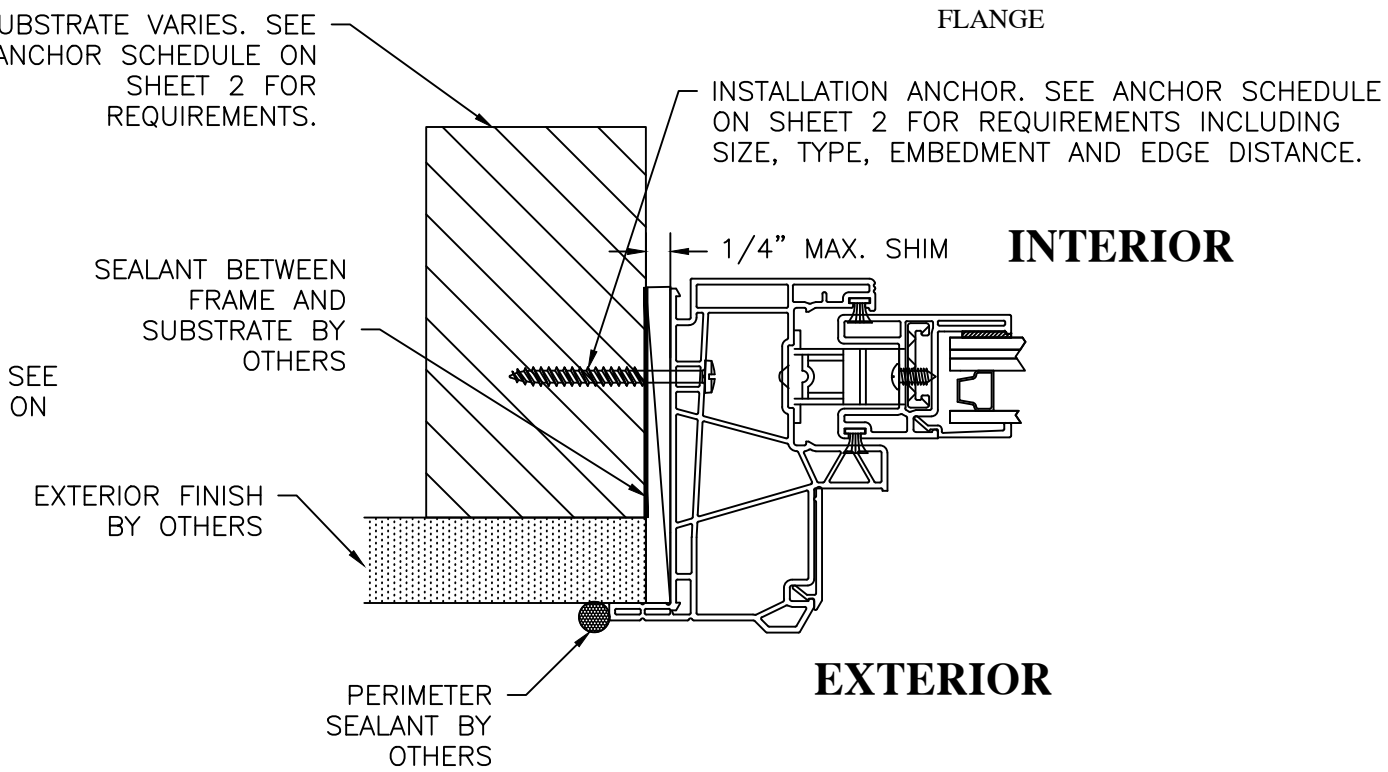
A **VERTICAL CROSS SECTION**
THROUGH-FRAME INSTALLATION
FLANGE



INTERIOR

EXTERIOR

B **FIXED LITE HORIZOINTAL**
CROSS SECTION
THROUGH-FRAME INSTALLATION
FLANGE



INTERIOR

EXTERIOR

C **SASH LITE HORIZONTAL**
CROSS SECTION
THROUGH-FRAME INSTALLATION
FLANGE

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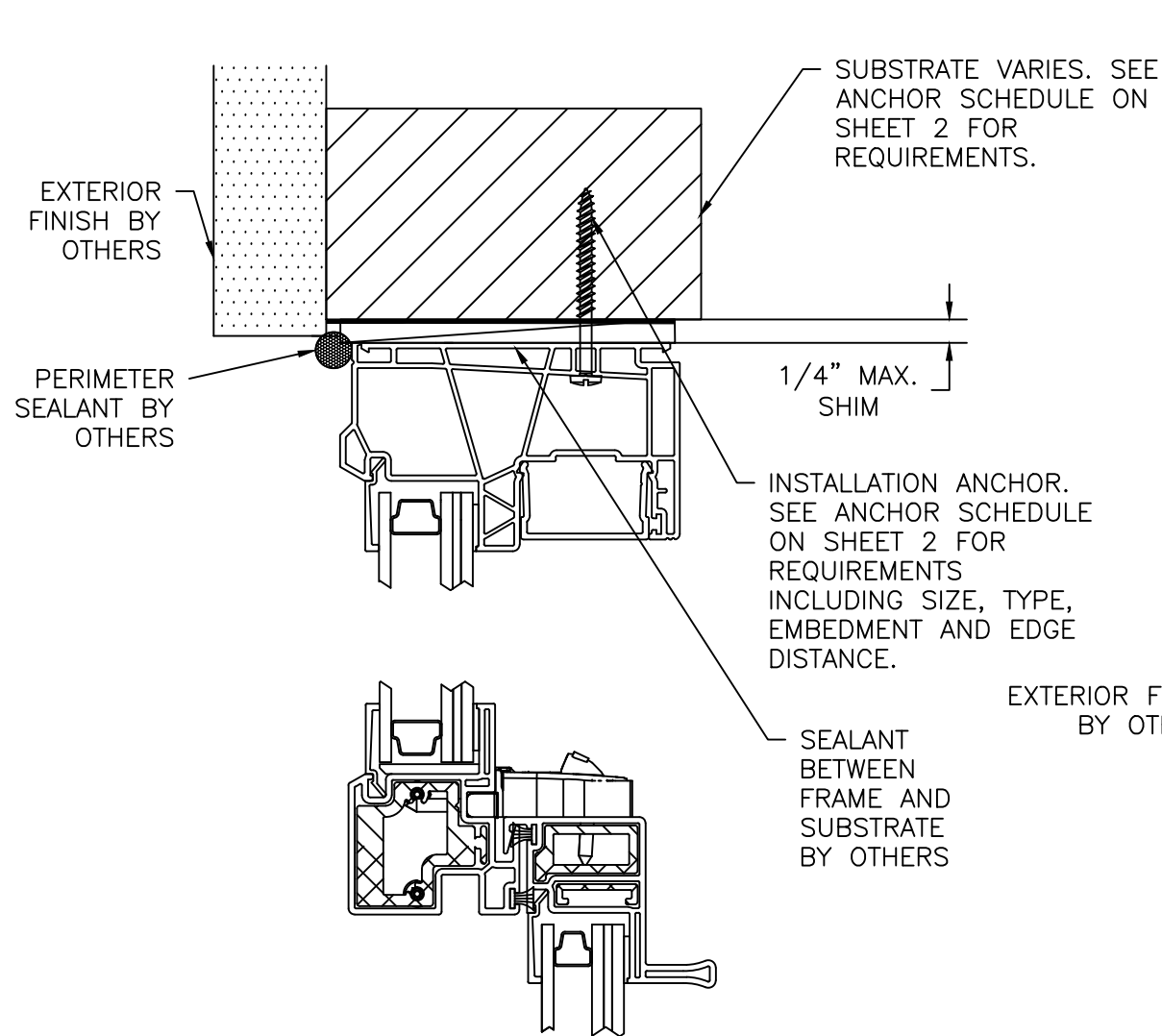
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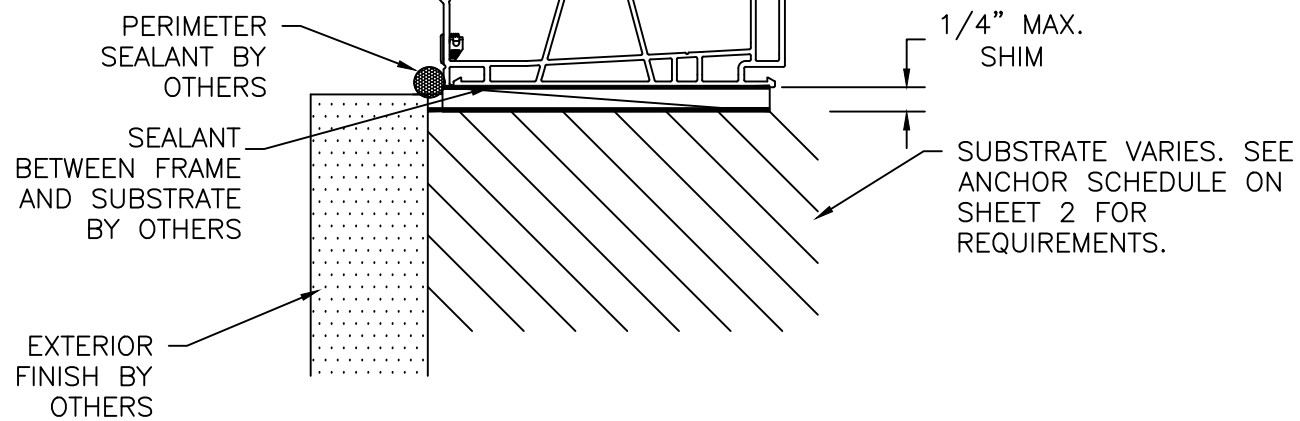
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DWG/REV:	RWD034, Rev 0
SHT:	6 of 10

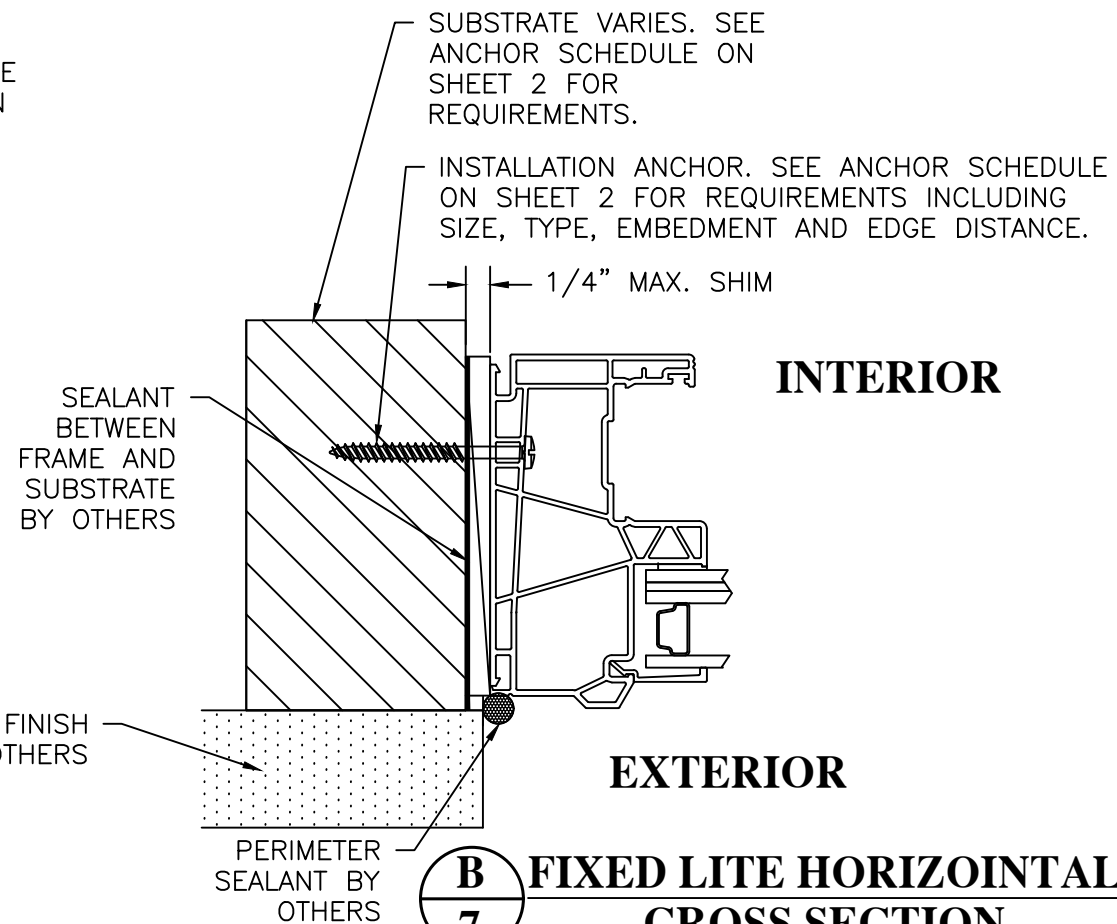


EXTERIOR

INTERIOR



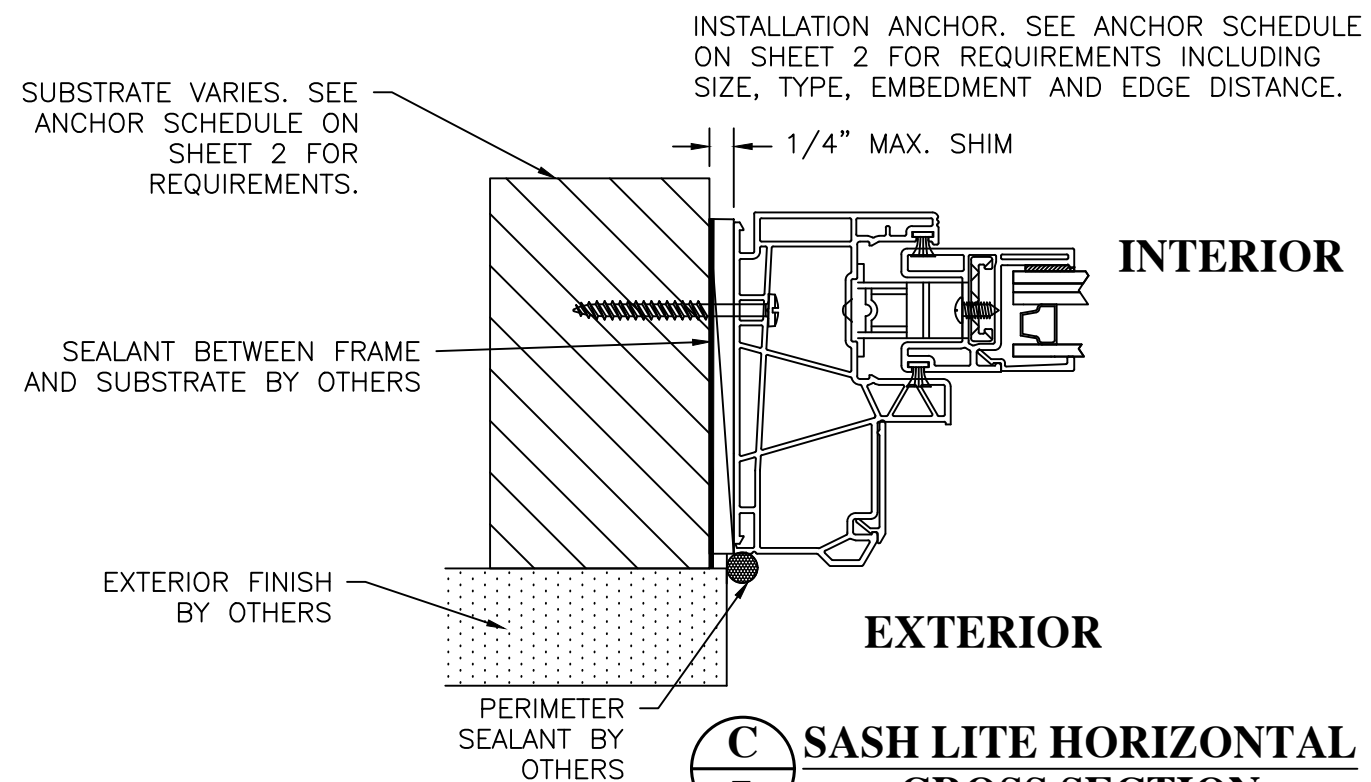
A
7 **VERTICAL CROSS SECTION**
THROUGH-FRAME INSTALLATION



INTERIOR

EXTERIOR

B
7 **FIXED LITE HORIZONTAL CROSS SECTION**
THROUGH-FRAME INSTALLATION



INTERIOR

EXTERIOR

C
7 **SASH LITE HORIZONTAL CROSS SECTION**
THROUGH-FRAME INSTALLATION

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SERIES 10400 VINYL SINGLE HUNG WINDOW
ANCHORAGE DETAILS

NO.	REVISION DESCRIPTION	BY	DATE

DATE: 4/26/2025	DWN BY: RJA	CHK BY: n/a	SCALE: NONE
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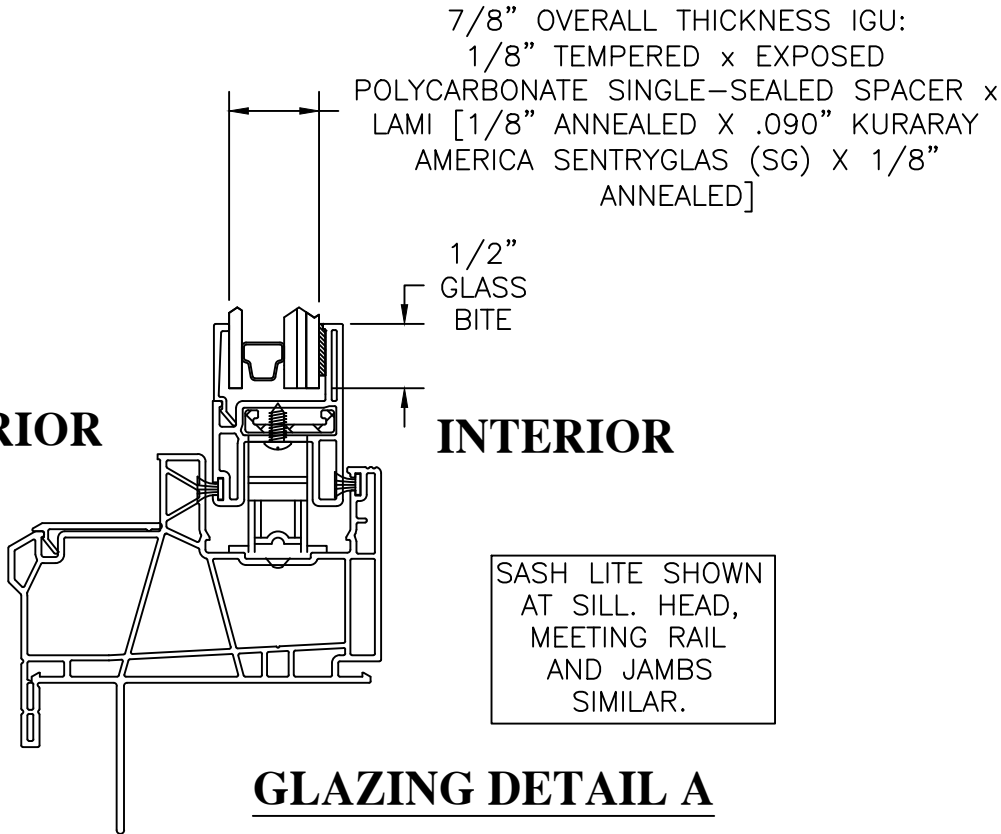
PROJECT#: ACE-2025-110

DWG/REV: RWD034, Rev 0

SHT: 7 of 10

EXTERIOR

INTERIOR



- NOTES:
1. A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH.
 2. AS-TESTED IGU SYSTEM SHOWN. SEE SHEET 1 FOR DETAILS RELATED TO WINDOW SIZE / GLAZING DETAIL / DESIGN PRESSURE.

BILL OF MATERIALS - SERIES 10400 SH				
PART NAME	VENDOR	PART #	COMMENTS OR MATERIAL	QTY USED
ULTRALIFT BALANCE	ASSA ABLOY-CALDWELL			2
21B303-SASH BRACKET (BALANCE)	ASSA ABLOY-CALDWELL			2
#6-20 X1" FH PHILLIPS TEK (BALANCE)	MERCHANTS/N FL CONSTRUCTION			2
21B310 ECO CARRIER ASSEMBLY (BALANCE)	ASSA ABLOY-CALDWELL			2
21B302 SASH TOP GUIDE (BALANCE)	ASSA ABLOY-CALDWELL			2
SK01-3007-000 SASH KEEPER	ASSA ABLOY-INTERLOCK			2
SK04-0005 LOCK MECHANISM	ASSA ABLOY-INTERLOCK			2
SK01-0010-000 LATCH COVER	ASSA ABLOY-INTERLOCK		1 PER LOCK	2
6A X 3/4 PHILLIPS FLAT S/S TEK	MERCHANTS		2 PER KEEPER AND 2 PER LOCK	8
8 x 2 1/2 PH S/S WASHER (MEETING RAIL)	MERCHANTS			4
8A X 1 PH HD 18-8 (BALANCE ROD)	MERCHANTS			2
6-20 X 1/2 PHILLIPS FLAT S/S TEK	MERCHANTS/N FL CONSTRUCTION		HOLD REINFORCEMENT IN PLACE FOR WELDING	4
FRAME HEAD	MIKRON	10244 / 10365	PVC	
FRAME SILL	MIKRON	10244 / 10365	PVC	
FRAME JAMB	MIKRON	10244 / 10365	PVC	
FIXED INTERLOCK	MIKRON	10245 / 10366	PVC	
REINF FIXED INTERLOCK	HYDRO	10245.1	ALUMINUM 6063 T-5	
VENT INTERLOCK	MIKRON	10247 / 10368	PVC	
REINF SASH INTERLOCK	HYDRO	10247.1.1	ALUMINUM 6063 T-5	
REINF SASH INTERLOCK	HYDRO	10247.1.2	ALUMINUM 6063 T-5	
LIFT RAIL	MIKRON	10246 / 10367	PVC	
REINF LIFT RAIL	HYDRO	10247.1.1	ALUMINUM 6063 T-5	
REINF LIFT RAIL	HYDRO	10247.1.2	ALUMINUM 6063 T-5	
SASH STILE	MIKRON	10248 / 10369	PVC	
REINF SASH STILE	HYDRO	10247.1.1	ALUMINUM 6063 T-5	
GLAZING BEAD	MIKRON	10249 / 10250	PVC	
SILL EXTENDER	HYDRO	10244.1.2	ALUMINUM 6063 T-5	
SETTING BLOCK	FRANK LOWE		NEOPRENE	
GLAZING COMPOUND	COASTAL CONSTRUCTION	DOWSIL 795		

SEE SHEETS 9 AND 10 FOR COMPONENT SECTION VIEWS

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	BY				
	REVISION DESCRIPTION				
	NO.				

DATE: 4/26/2025
DWN BY: RJA
CHK BY: n/a
SCALE: NONE

ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
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RJAENGPE@GMAIL.COM

Robert J. Amoruso
Professional Engineer
State of Florida
License No. 49752

Digitally signed by Robert J Amoruso
Date: 2025.05.18 15:51:03 -04'00'

PROJECT#: ACE-2025-110
DWG/REV: RWD034, Rev 0
SHT: 8 of 10

SERIES 10400 VINYL SINGLE HUNG WINDOW ANCHORAGE DETAILS	DATE				
	BY				
	REVISION DESCRIPTION				
	NO.				

DATE: 4/26/2025	DWN BY: RJA	CHK BY: n/a	SCALE: NONE
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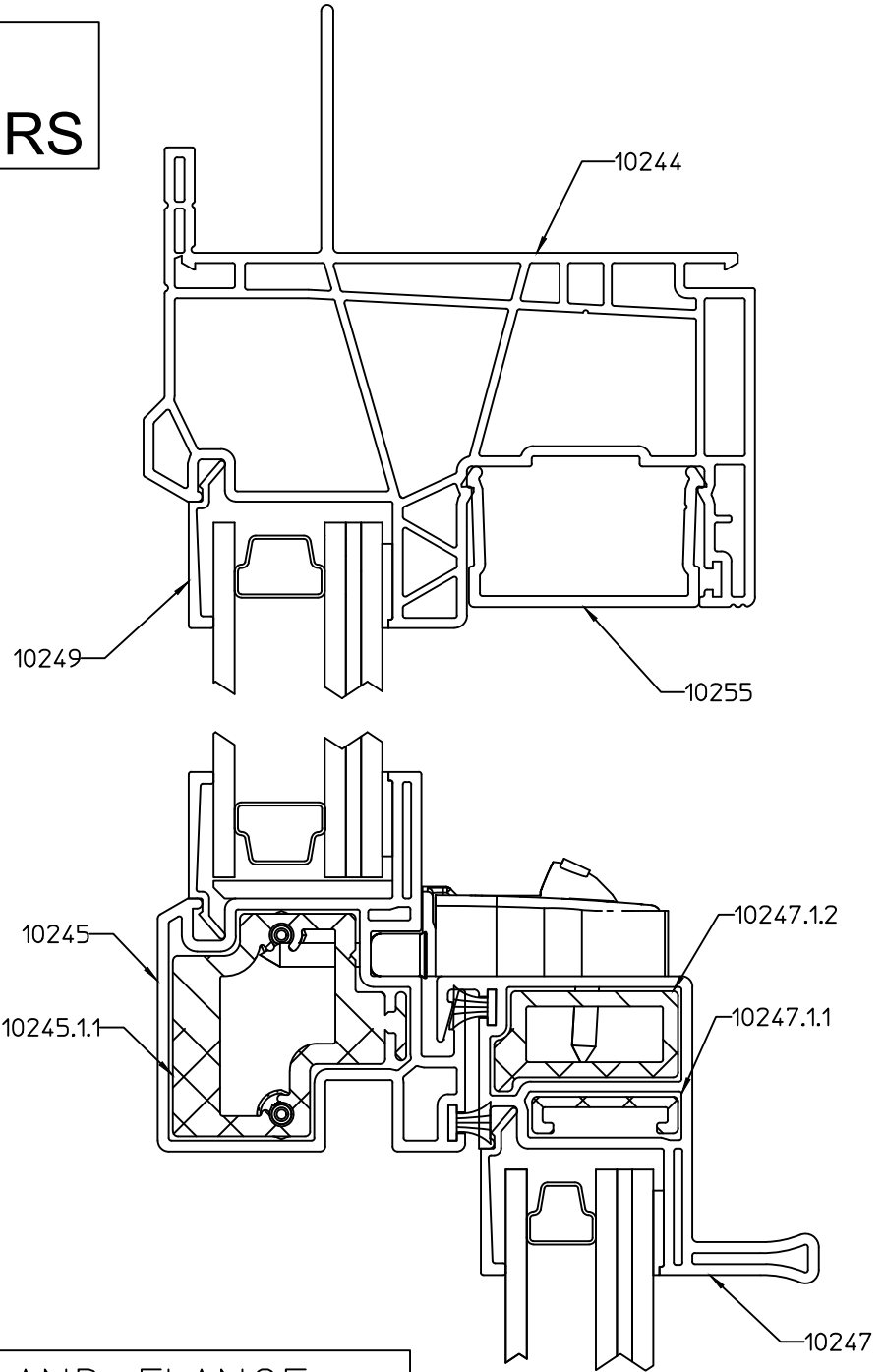
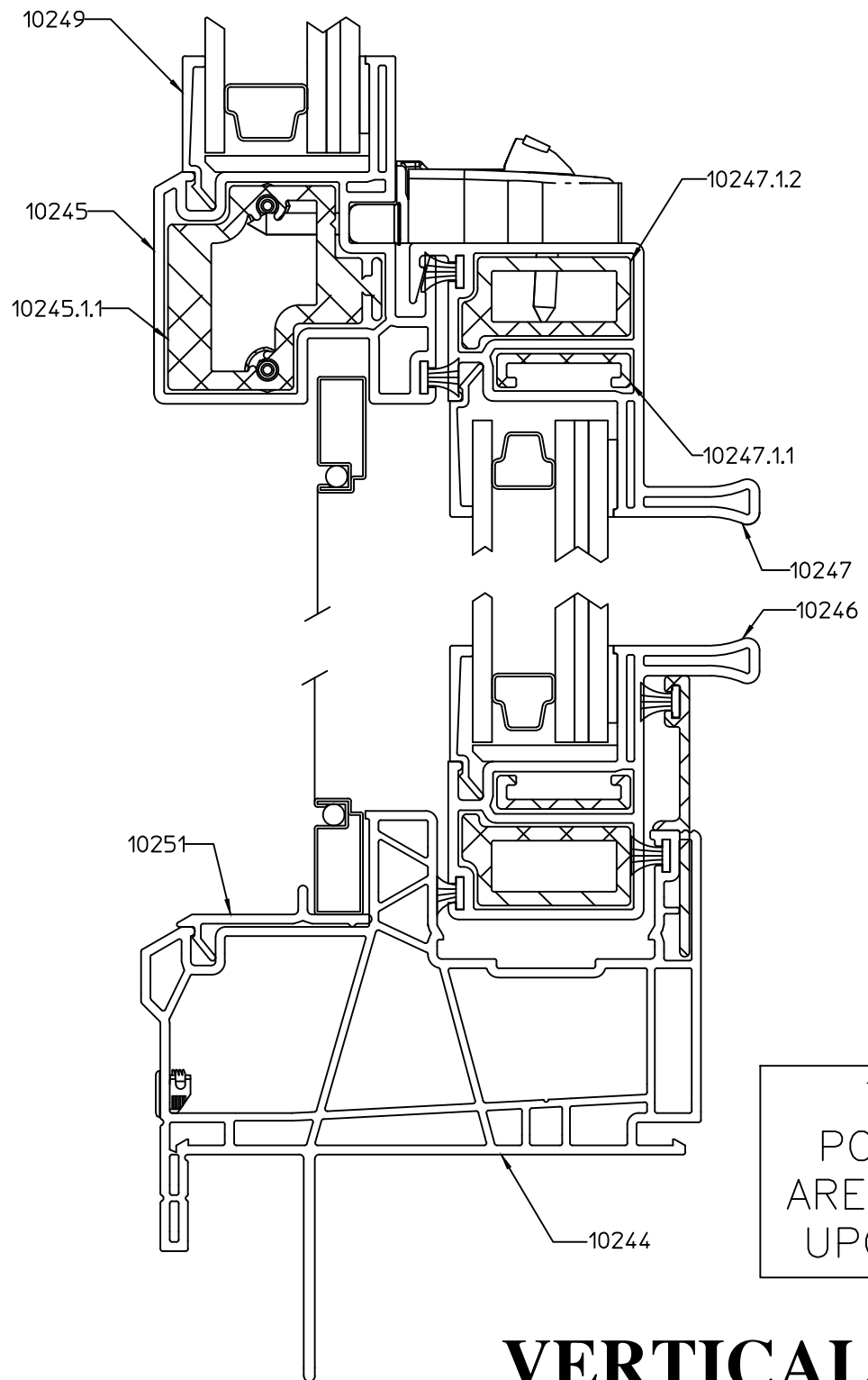
ROBERT J. AMORUSO, P.E. #49752
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226 N NOVA RD, NO. 142
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RJAENGPE@GMAIL.COM



Digitally signed by
Robert J Amoruso®
Date: 2025.05.18
15:51:31 -04'00'

PROJECT#:	ACE-2025-110
DWG/REV:	RWD034, Rev 0
SHT:	9 of 10

SECTION VIEWS WITH
COMPONENT PART NUMBERS



THE FIN AND FLANGE
PORTIONS OF THE FRAME
ARE REMOVABLE DEPENDENT
UPON INSTALLATION NEEDS

VERTICAL CROSS SECTION
SEE NOTE THIS SHEET (FIN & FLANGE REMOVABLE)

SERIES 10400 VINYL SINGLE HUNG WINDOW ANCHORAGE DETAILS	DATE				
	BY				
	REVISION DESCRIPTION				
	NO.				

DATE: 4/26/2025	DWN BY: RJA	CHK BY: n/a	SCALE: NONE
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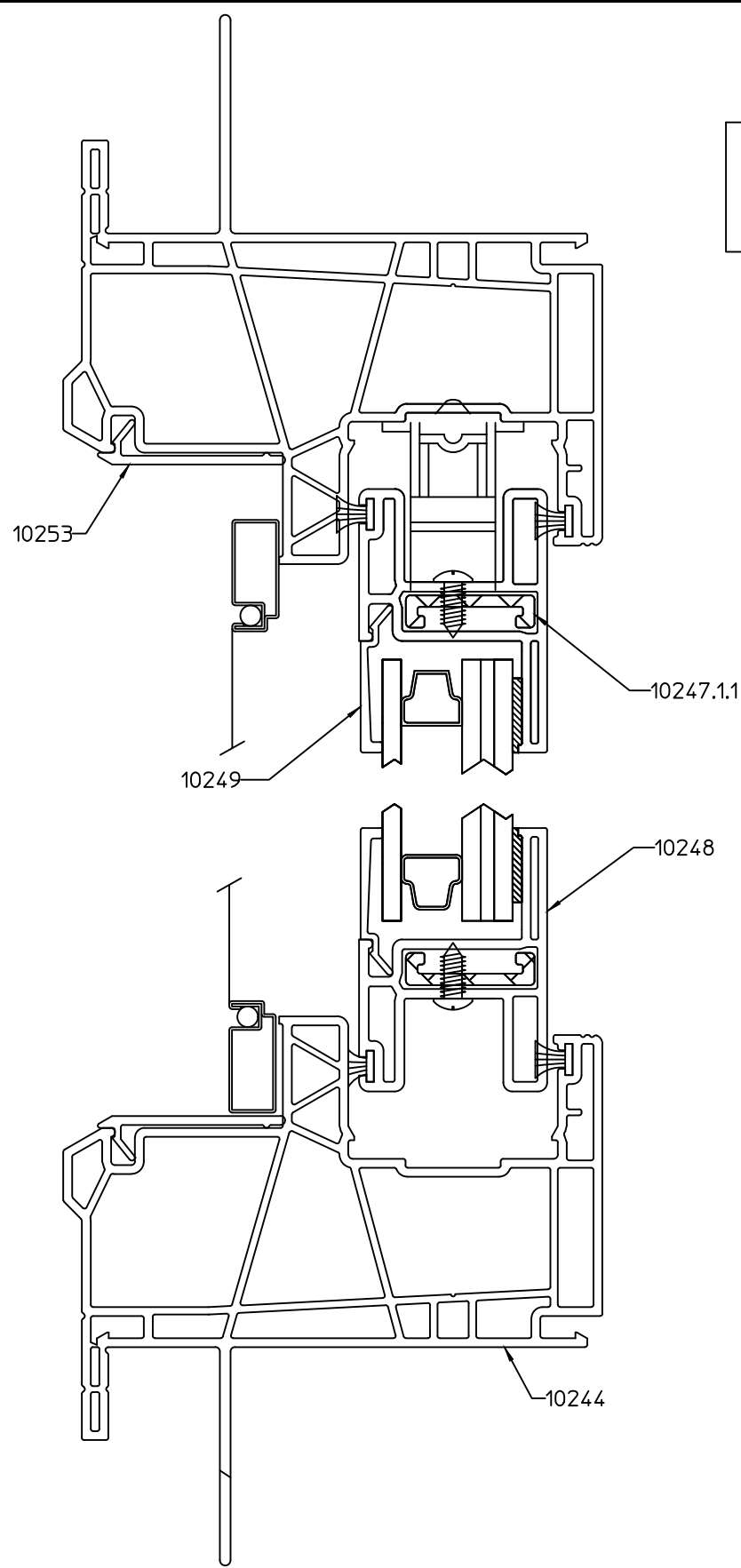
ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
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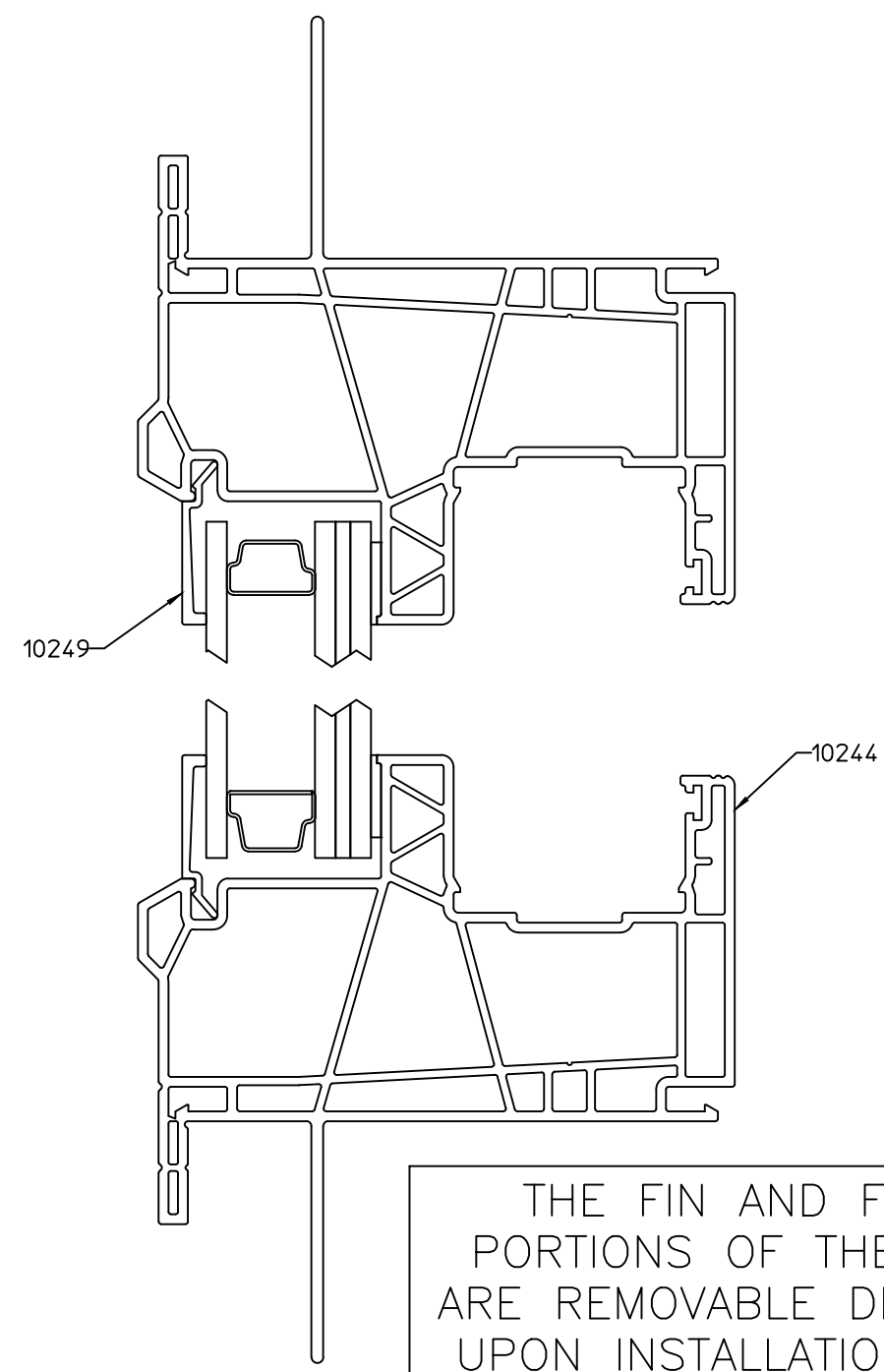
Digitally signed by
Robert J Amoruso®
Date: 2025.05.18
15:51:47 -04'00'

PROJECT#:	ACE-2025-110
DWG/REV:	RWD034, Rev 0
SHT:	10 of 10

SECTION VIEWS WITH
COMPONENT PART NUMBERS



HORIZONTAL CROSS SECTION
VENT (SASH)
SEE NOTE THIS SHEET (FIN & FLANGE REMOVABLE)



HORIZONTAL CROSS SECTION
FIXED PANEL
SEE NOTE THIS SHEET (FIN & FLANGE REMOVABLE)