

RENAISSANCE WINDOWS AND DOORS

SERIES 8500 VINYL FIXED WINDOW

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. TESTING WAS CONDUCTED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-08 AND 11.
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NCTL-210-4211-01 AND ASSOCIATED LABORATORY DRAWINGS BY NATIONAL CERTIFIED TESTING LABORATORIES.
3. THIS PRODUCT EVALUATION DOCUMENT IS NOT FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
4. 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.
5. 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.
6. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST,THIS PRODUCT REQUIRES OPENING PROTECTION IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE USING AN APPROVED IMPACT PROTECTION DEVICE.
7. 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.
8. WINDOW FRAME MATERIAL: VINYL (PVC).
9. GLAZING

9.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.

9.2. FOR PRODUCTS SMALLER THAN THE TESTED SPECIMEN (74" x 74")

9.2.1. GLAZING IS PERMITTED TO BE THINNER AND/OR WEAKER THAN THAT SHOWN IN GENERAL NOTE 7.1 IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-08, SECTION 6.2.3.4.1.

9.2.2. GLAZING IS PERMITTED TO BE THINNER AND/OR WEAKER THAN THAT SHOWN IN GENERAL NOTE 7.1 IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-11, SECTION 10.2.3.4.1.
- 9.3. ANNEALED GLAZING USED IN TESTING. PER SECTION 6.2.3.4.1 OF AAMA/WDMA/CSA 101/I.S.2/A440-08 AND SECTION 10.2.3.4.1 OF AAMA/WDMA/CSA 101/I.S.2/A440-11, TEMPERED GLAZING REQUIRED TO MEET DP = 60 PSF. SEE GLAZING DETAILS A ON SHEET 8 FOR REQUIREMENTS.
10. DESIGNATION "O" STANDS FOR FIXED LITE.
11. 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.

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.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES, INSTALLATION NOTES, TABLE OF CONTENTS
2	ANCHOR SCHEDULE - EMBEDMENT AND EDGE DISTANCE
3	74" X 74" ELEVATION & NAILING FIN (FIN FRAME) ANCHORING LAYOUT
4	74" X 74" ELEVATION & EQUAL LEG THROUGH FRAME ANCHORING LAYOUT
5	CROSS SECTIONS - NAILING FIN INSTALLATION
6	CROSS SECTIONS - THRU FRAME INSTALLATION
7	CROSS SECTIONS - SNAP-ON FLANGE THRU FRAME INSTALLATION
8	GLAZING DETAIL AND GLAZING NOTES /BILL OR MATERIALS

PERFORMANCE RATING				
MAXIMUM WINDOW SIZE	ELEVATION	GLAZING DETAIL (SEE SHEET 8)	DESIGN PRESSURE (PSF)	IMPACT RATING
74" X 74"	SHEET 3 & 4	A	+/- 60	NONE SEE NOTE 6

RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218		PROJECT # 421-0302	
TITLE: SERIES 8500 VINYL FIXED WINDOW GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS			
PREPARED BY:		DRAWN BY: RJA	DATE: 12/11/19
		SCALE: N.T.S.	DRAWING NO: RWD0016
		REV: A	SHEET: 1 OF 8
 PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 23935 Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com		A	UPDATED TO INCLUDE NEW TESTING
		REV	DESCRIPTION
			DATE
			BY

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



Digitally signed by
Robert J Amoruso
Date: 2021.05.13
14:13:23 -04'00'

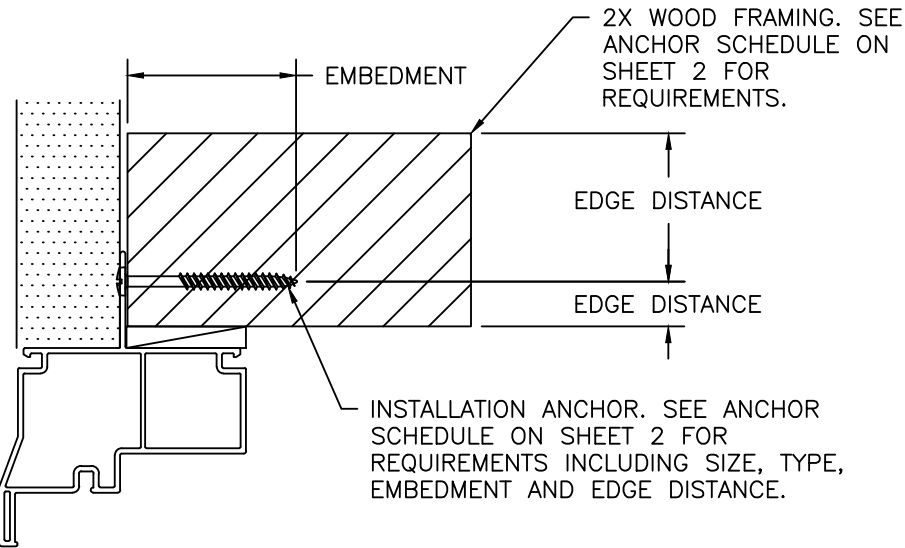
INSTALLATION ANCHOR SCHEDULE									
INSTALLATION TYPE	SECTION VIEW	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	MIN. SPACING (IN) BETWEEN FRAME ANCHORS	ANCHOR CAPACITIES BASED ON
THROUGH FRAME ANCHOR	SECTION A, B & C (SHEETS 7)	HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1	1-1/8	3	MIN. 2500 PSI CONCRETE
				MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1	2	3	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
		PAN HEAD	No. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) GRADE 2 EQUIVALENT	1-3/8	3/4	2 1/2	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.
					ASME B18.6.4 (TAPPING SCREW) (2) GRADE 2 EQUIVALENT				
SNAP-ON FLANGE WITH THROUGH FRAME ANCHOR	SECTION A, B & C (SHEETS 6)	HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1	1-1/8	3	MIN. 2500 PSI CONCRETE
				MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1	2	3	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
		PAN HEAD	No. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) GRADE 2 EQUIVALENT	1-3/8	3/4	2 1/2	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.
					ASME B18.6.4 (TAPPING SCREW) (2) GRADE 2 EQUIVALENT				
NAILING FIN ANCHOR	SECTION A, B & C (SHEETS 5)	PAN HEAD	No. 8	WOOD	ANSI B18.6.1 (WOOD SCREW) (3) GRADE 2 EQUIVALENT	1-5/8	1/4	1	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.
					ASME B18.6.4 (TAPPING SCREW) (3) GRADE 2 EQUIVALENT				

NOTES:

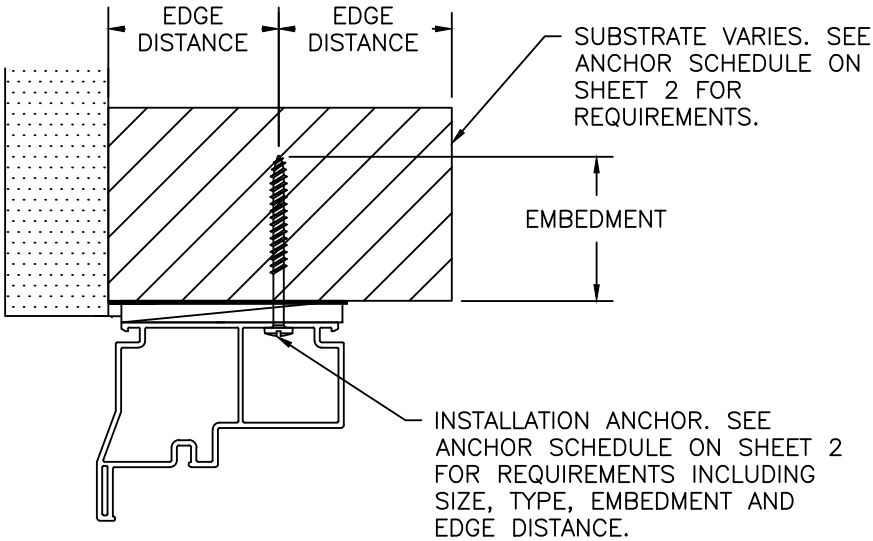
1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.

2) FOR WOOD SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.090" PILOT HOLE (DRILL SIZE 43). FOR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.121" PILOT HOLE (DRILL SIZE 31).

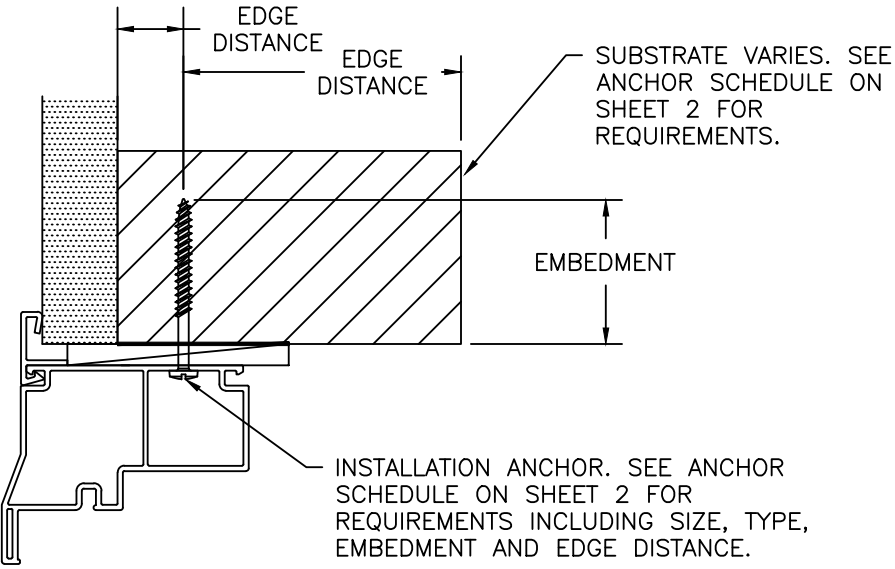
3) FOR WOOD OR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.082" PILOT HOLE (DRILL SIZE 45).



EMBEDMENT AND EDGE DISTANCE
NAILING FIN FRAME INSTALLATION



EMBEDMENT AND EDGE DISTANCE
THROUGH-FRAME INSTALLATION



EMBEDMENT AND EDGE DISTANCE
SNAP-ON FLANGE THROUGH-FRAME INSTALLATION

PROJECT # 421-0302

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

TITLE:
ANCHOR SCHEDULE - EMBEDMENT & EDGE DISTANCE

PREPARED BY:
RJA

DATE:
12/11/19

DRAWING NO:
RWD0016

SCALE:
N.T.S.

SHEET:
2 OF 8

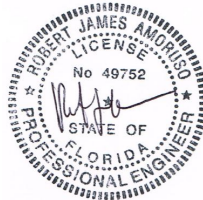
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DESCRIPTION
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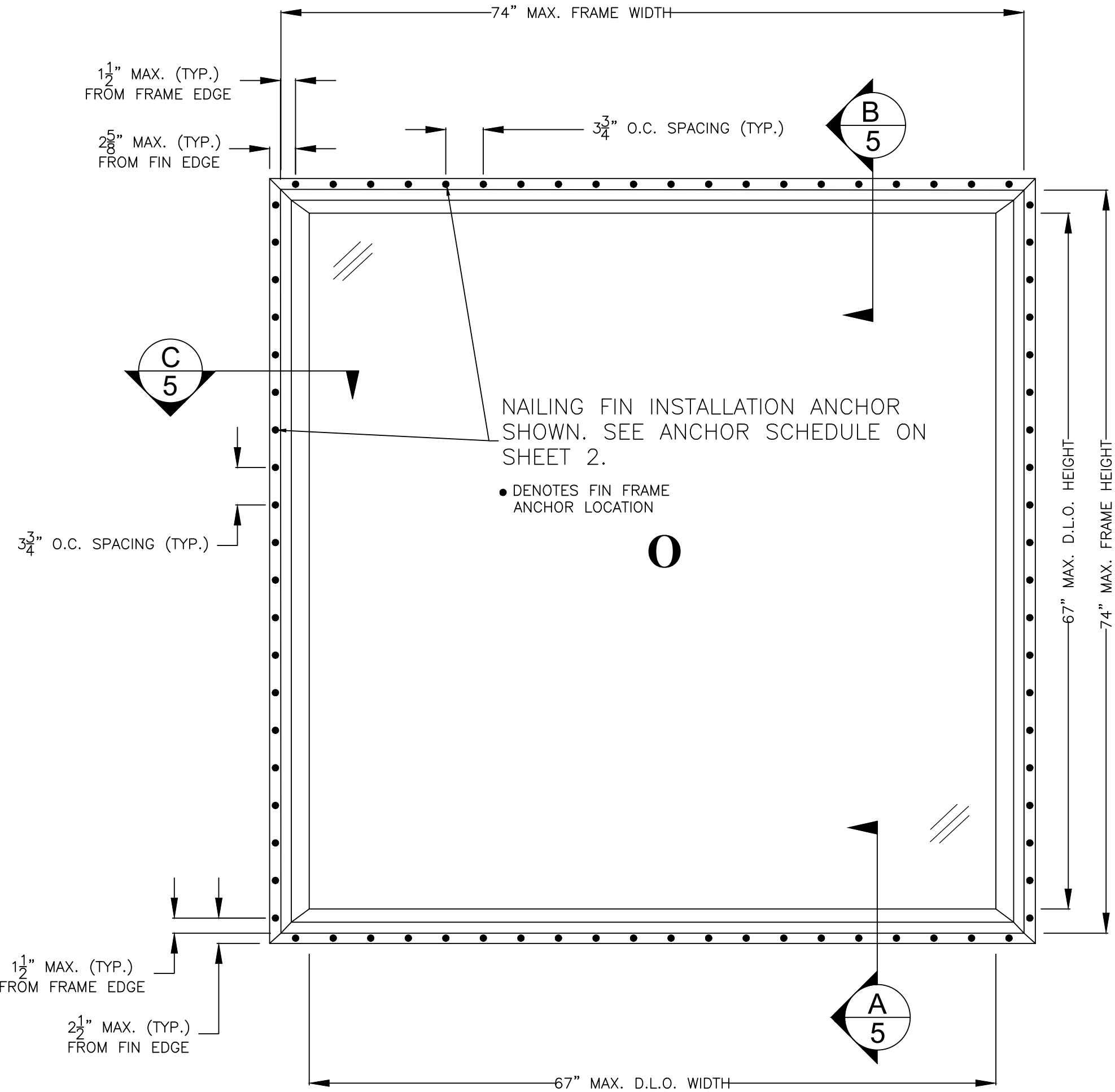
DATE
5/13/21

BY
RJA

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



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Robert J Amoruso
Date: 2021.05.13
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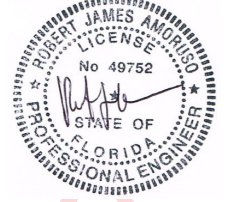


SERIES 8500 VINYL FIXED WINDOW
EXTERIOR VIEW
74" X 74" NOMINAL SIZE
GLAZING DETAIL A
NAILING FINE (FIN FRAME) ANCHOR INSTALLATION

PROJECT # 421-0302					
		A	UPDATED TO INCLUDE NEW TESTING	5/13/21	RJA
		REV	DESCRIPTION	DATE	BY

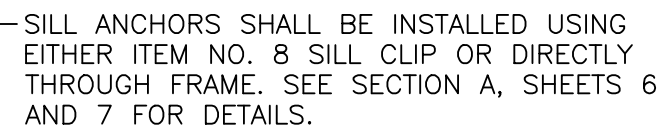
RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218		TITLE: SERIES 8500 VINYL FIXED WINDOW 74" X 74" ELEVATION - NAILING FIN (FIN) FRAME ANCHORING LAYOUT	
DRAWN BY: RJA		DATE: 12/11/19	
SCALE: N.T.S.		DRAWING NO: RWD0016	
REV: A		SHEET: 3 OF 8	
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 PHONE: 321.690.1788 FAX: 321.690.1789 EMAIL: info@ptc-corp.com			

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



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Robert J Amoruso
Date: 2021.05.13
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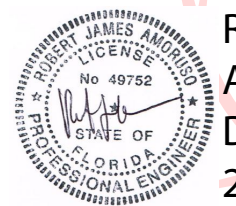
EXTERIOR VIEW
74" X 74" NOMINAL SIZE
GLAZING DETAIL A
THROUGH FRAME ANCHOR
INSTALLATION



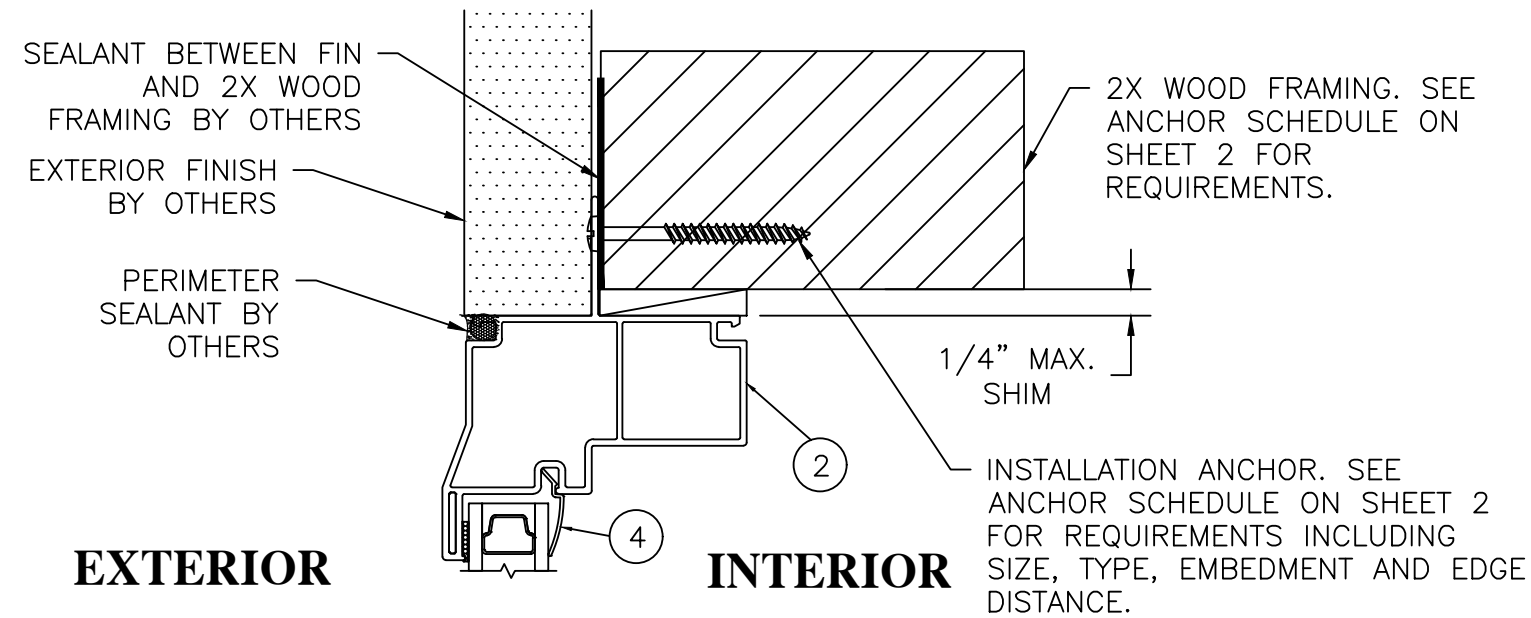
PROJECT # 421-0302					
A	UPDATED TO INCLUDE NEW TESTING	5/13/21	RJA		
REV	DESCRIPTION	DATE	BY		

RENAISSANCE WINDOWS AND DOORS		13340 INTERNATIONAL PARKWAY		JACKSONVILLE, FL 32218	
TITLE:		SERIES 8500 VINYL FIXED WINDOW			
74" X 74" ELEVATION - THROUGH FRAME ANCHORING LAYOUT					
PREPARED BY:	DRAWN BY:	RJA	DATE:	12/11/19	
	SCALE:	N.T.S.	DRAWING NO:	RWD0016	
	REV:	A	SHEET:	4 OF 8	
	 PDC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 ERP# CA. NO. 25935.				

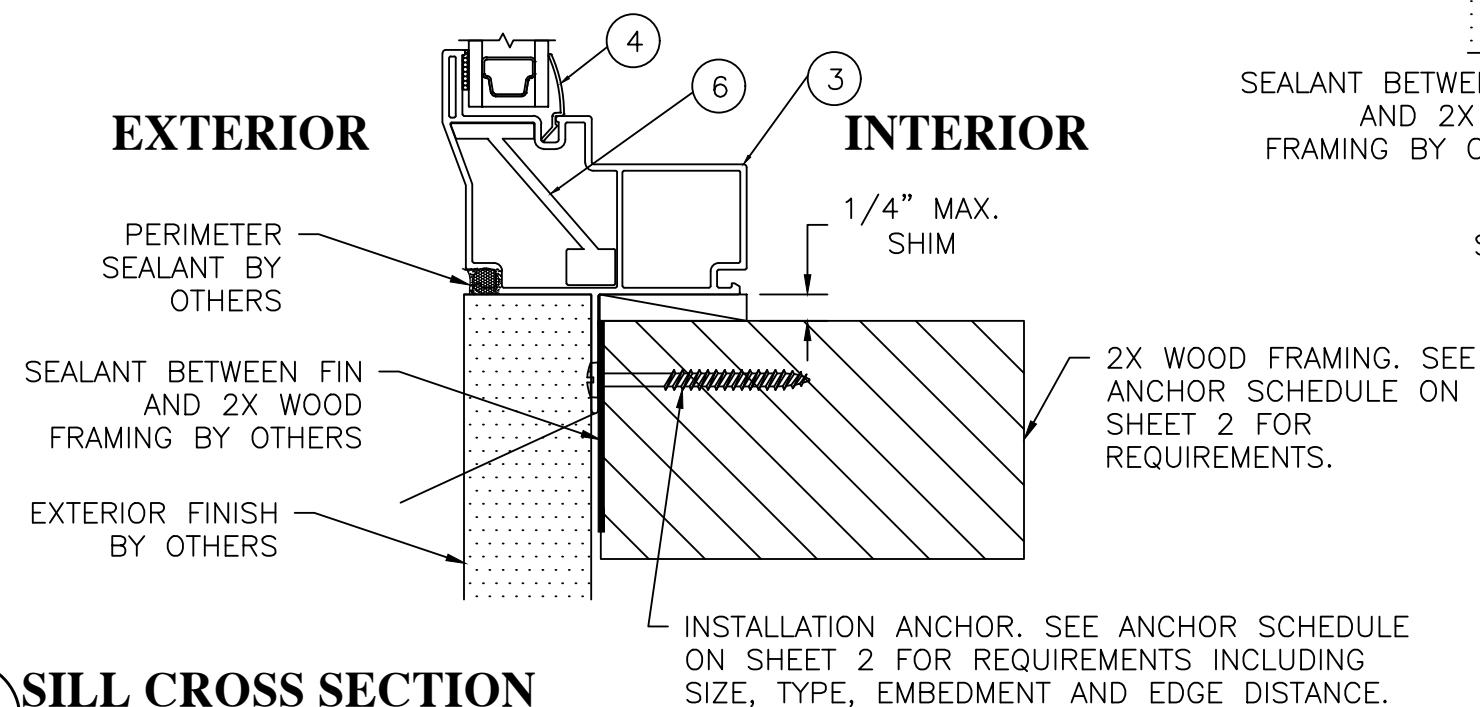
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Florida P.E. No. 49752



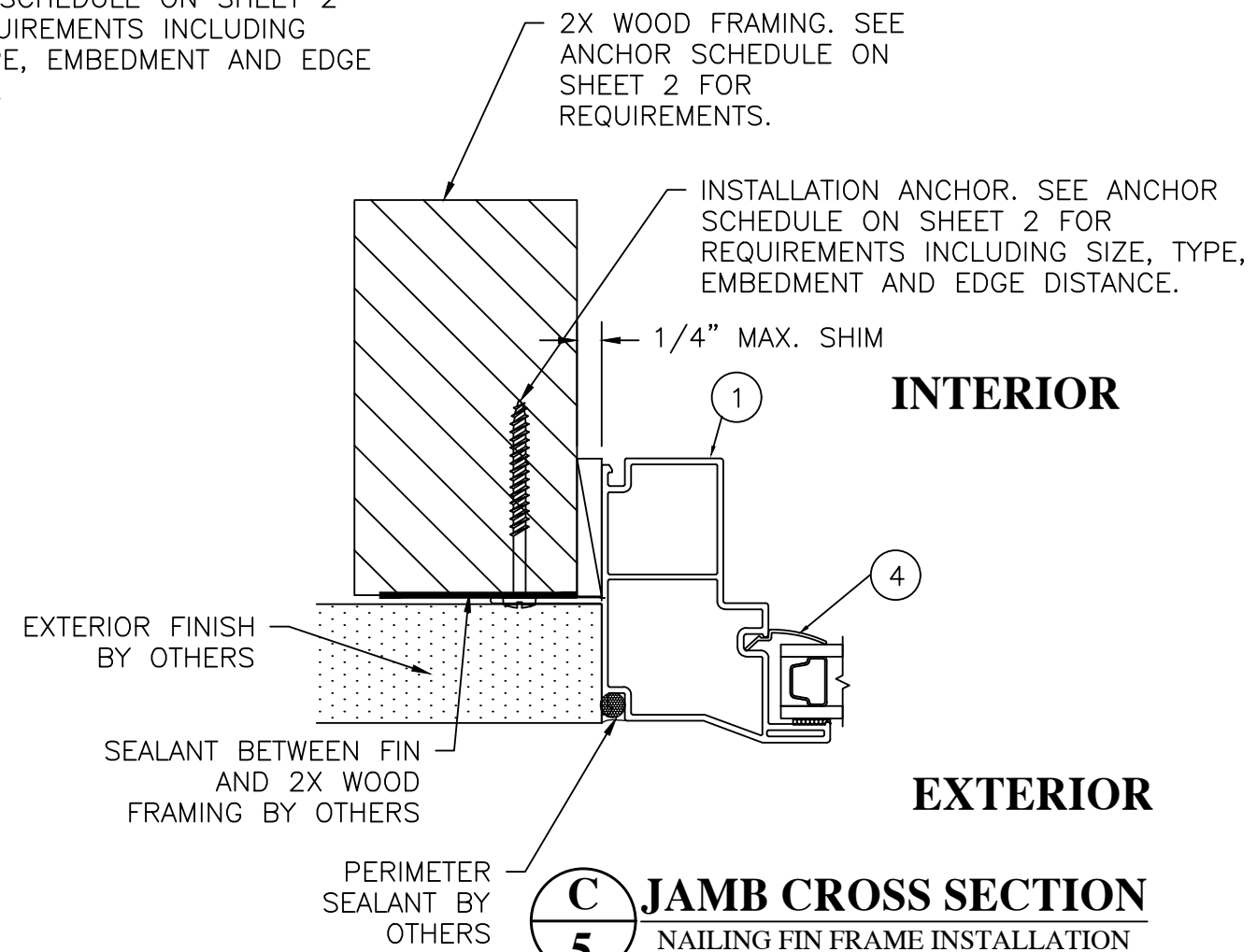
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Amoruso
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B
5 **HEAD CROSS SECTION**
NAILING FIN FRAME INSTALLATION



A
5 **SILL CROSS SECTION**
NAILING FIN FRAME INSTALLATION



C
5 **JAMB CROSS SECTION**
NAILING FIN FRAME INSTALLATION

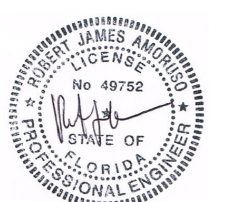
PROJECT # 421-0302

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

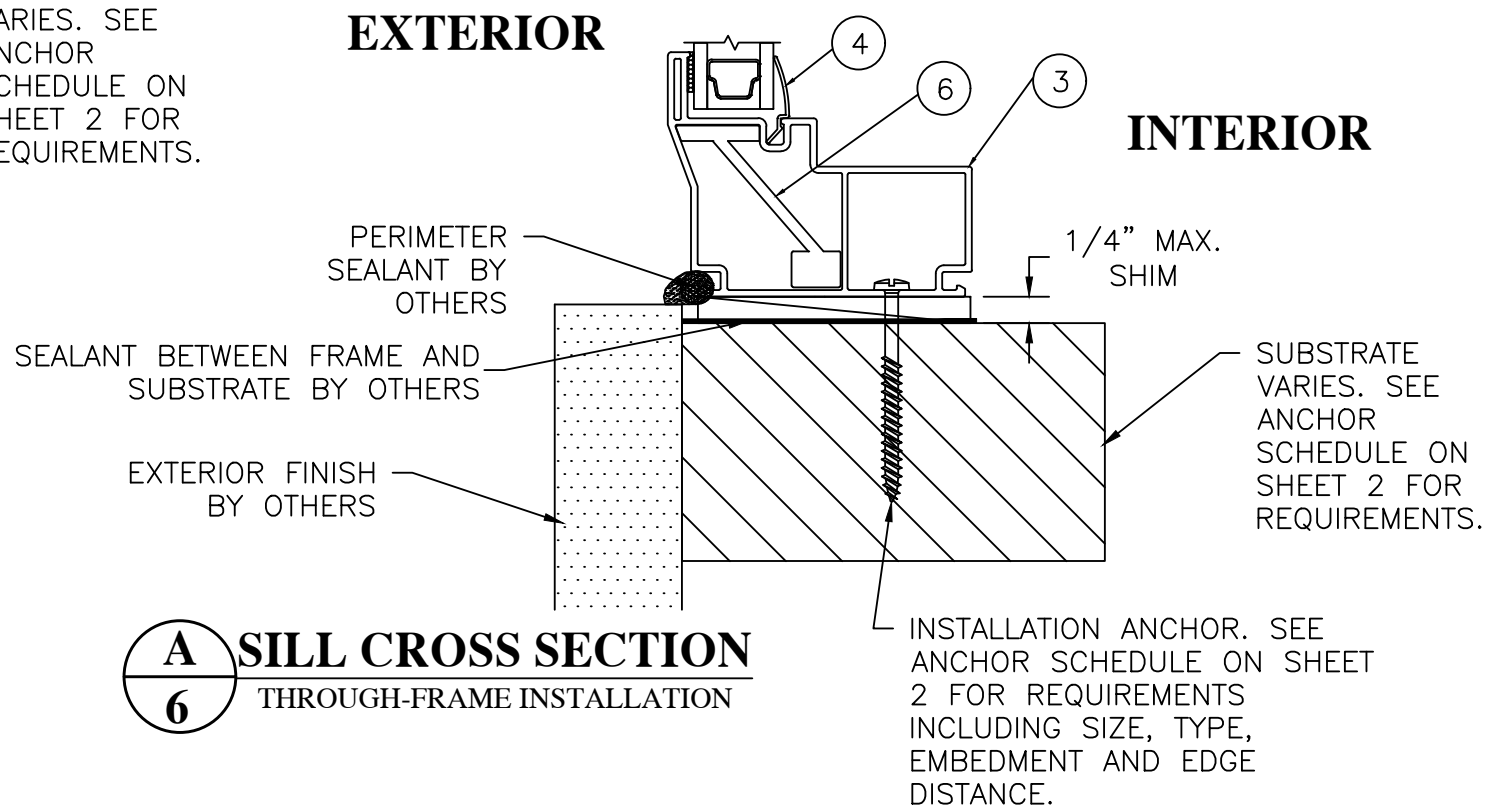
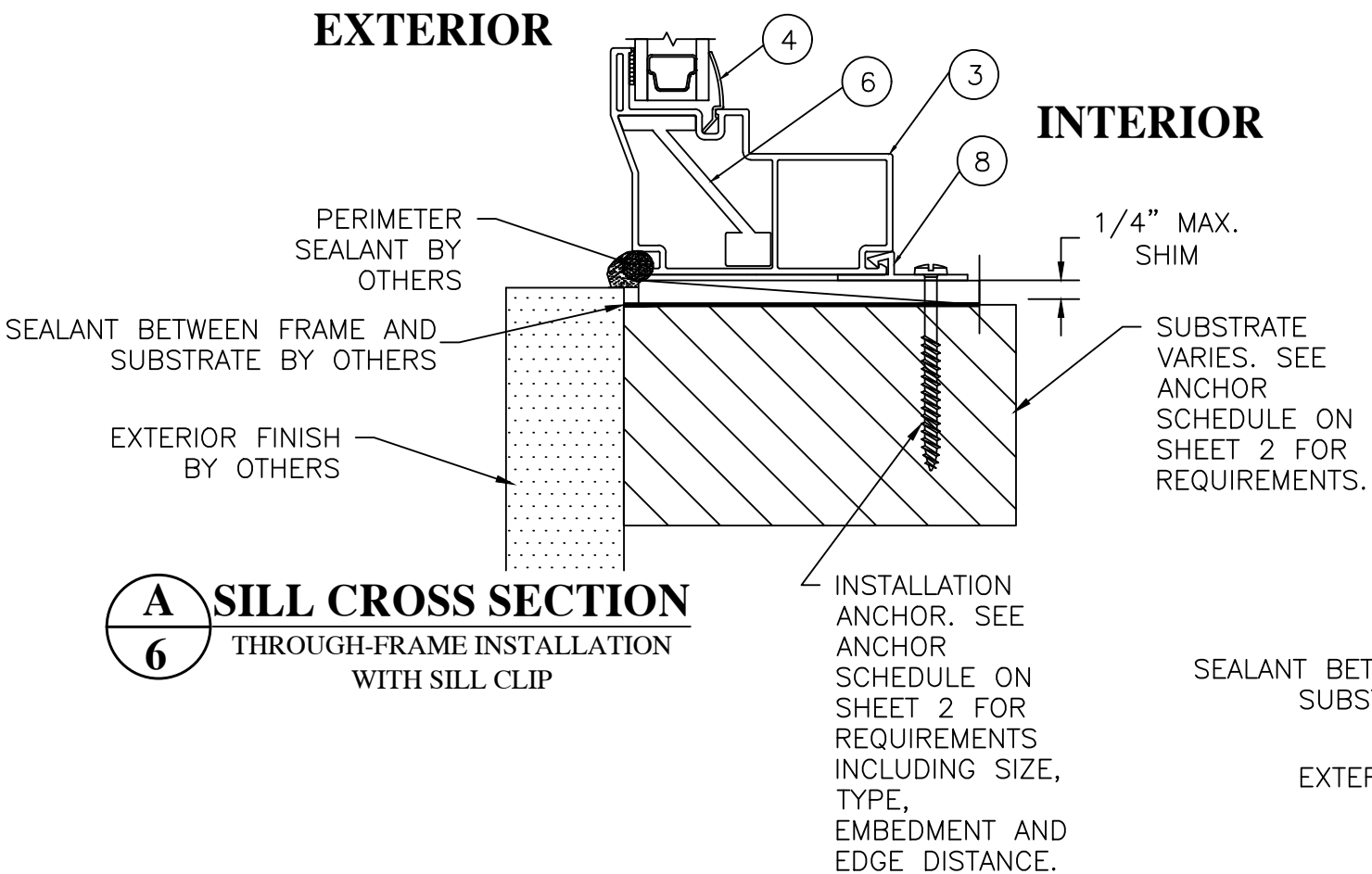
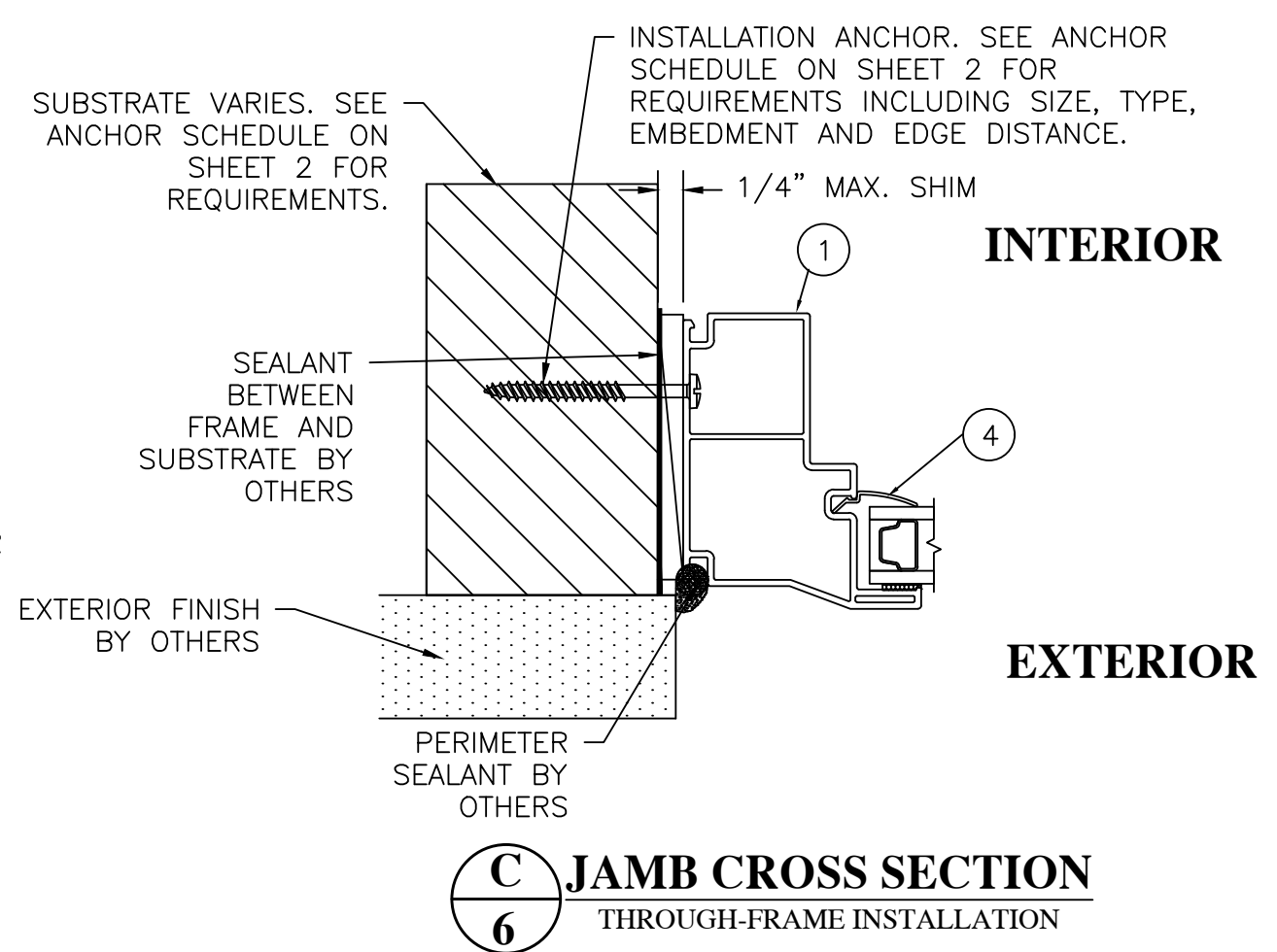
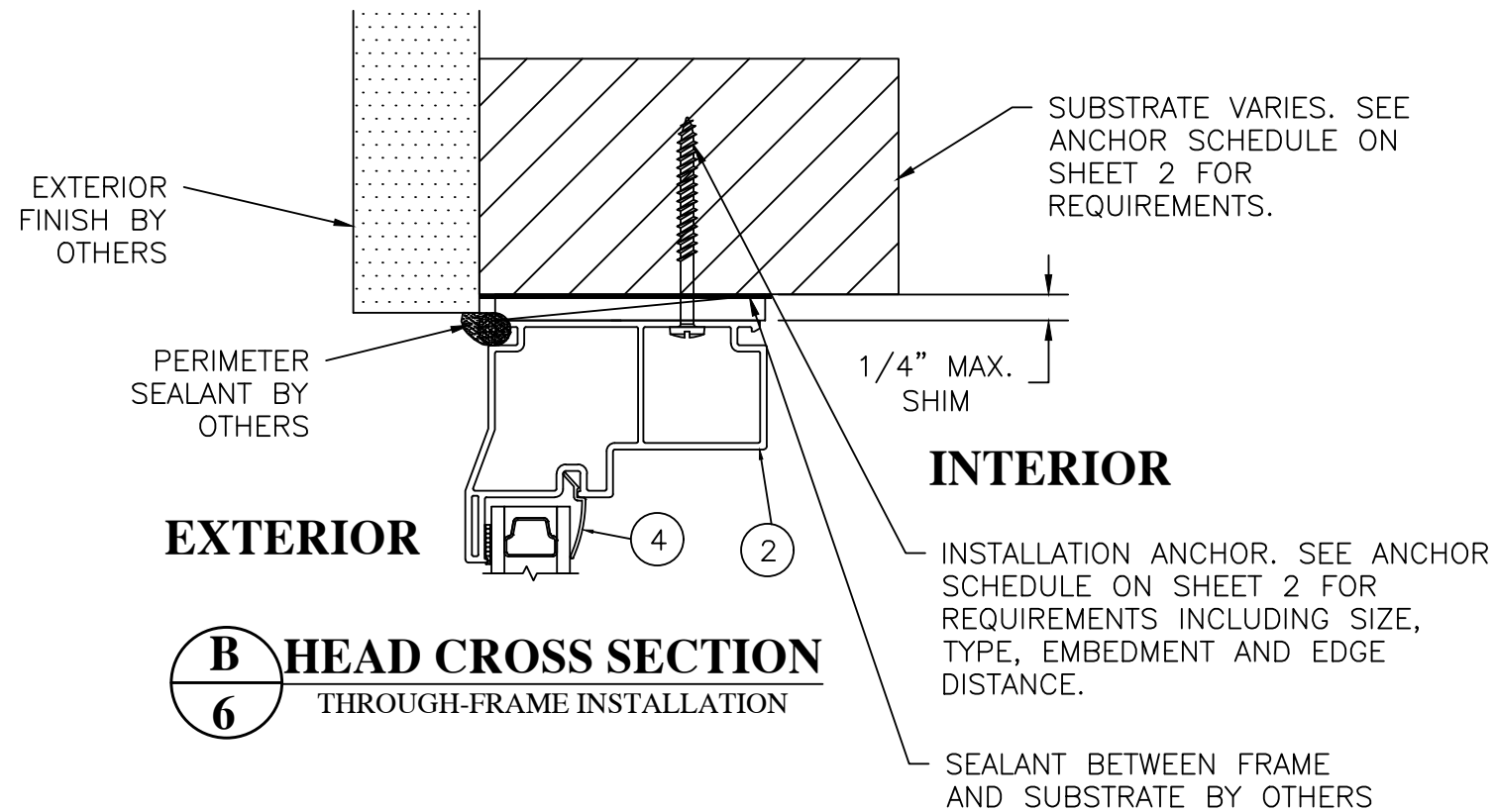
TITLE: SERIES 8500 VINYL FIXED WINDOW
CROSS SECTIONS - NAILING FIN INSTALLATION

PREPARED BY: RJA
SCALE: N.T.S.
REV: A
DATE: 12/11/19
DRAWING NO: RWD0016
SHEET: 5 OF 8

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



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Robert J Amoruso
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PROJECT # 421-0302

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

TITLE: CROSS SECTIONS - THRU FRAME INSTALLATION

PREPARED BY: RJA DATE: 12/11/19

SCALE: N.T.S. DRAWING NO: RWD0016

REV: A SHEET: 6 OF 8

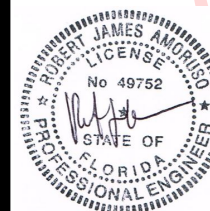
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DESCRIPTION

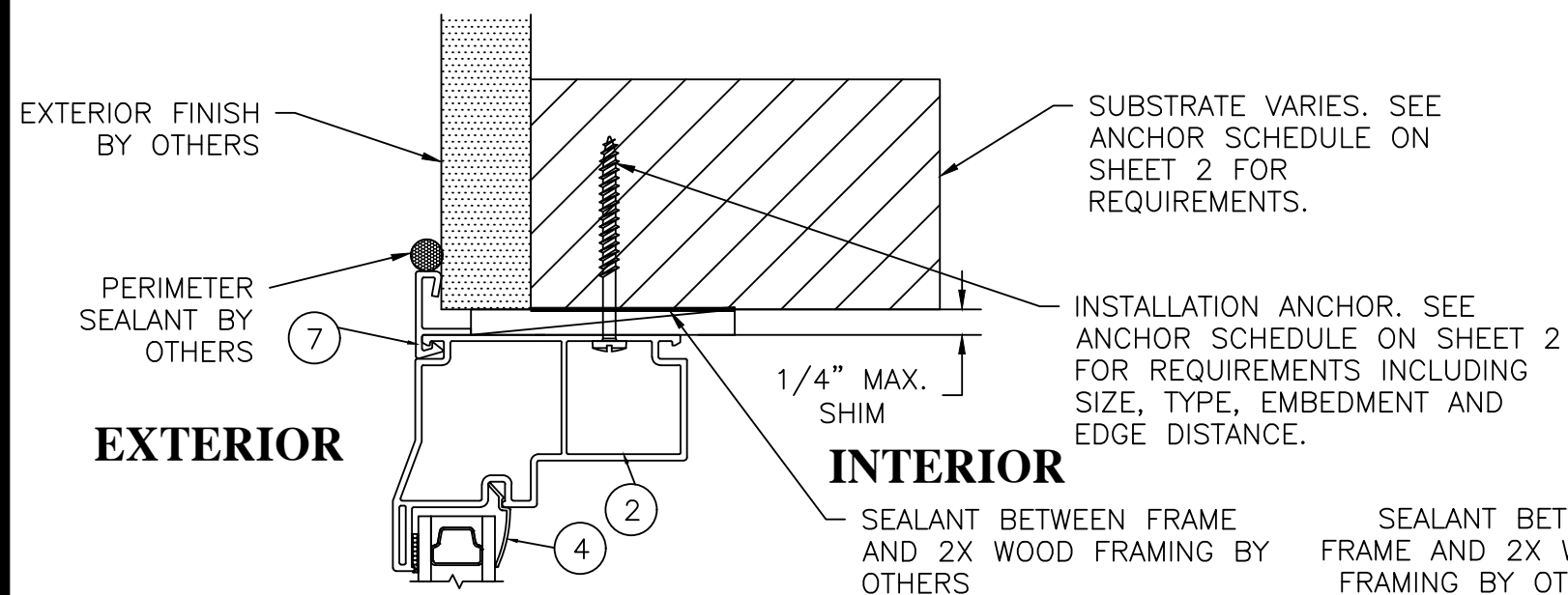
DATE

BY

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

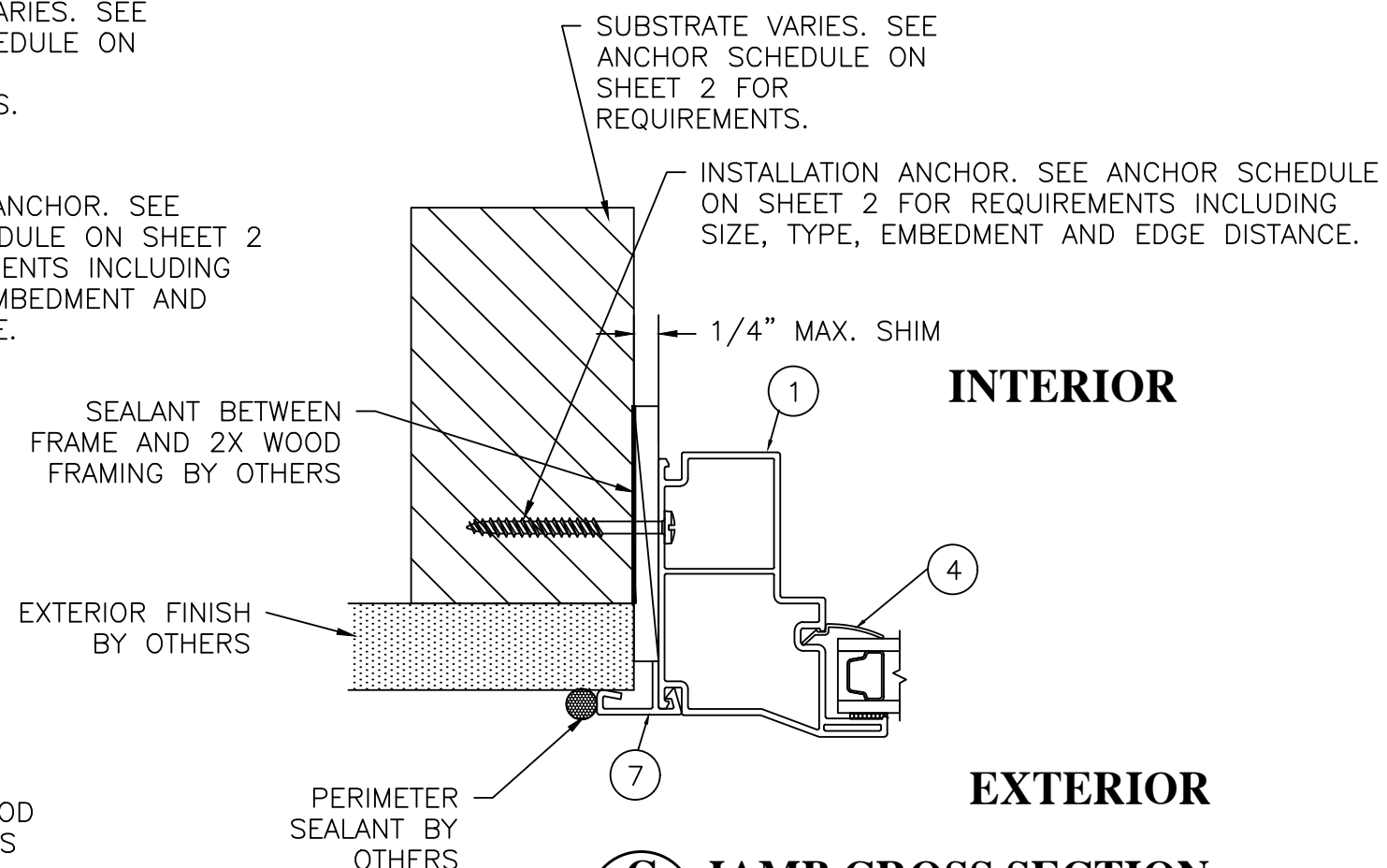


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Date: 2021.05.13 14:14:35 -04'00'

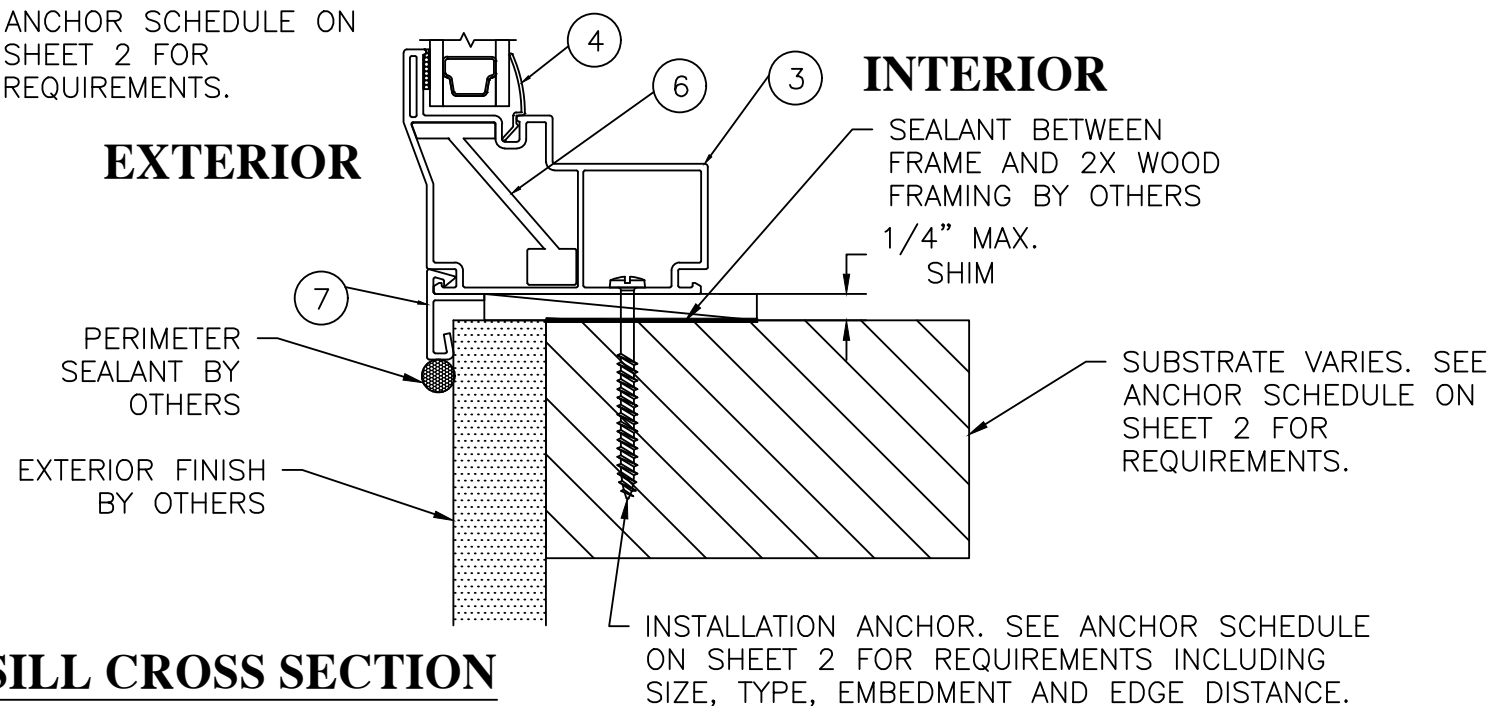
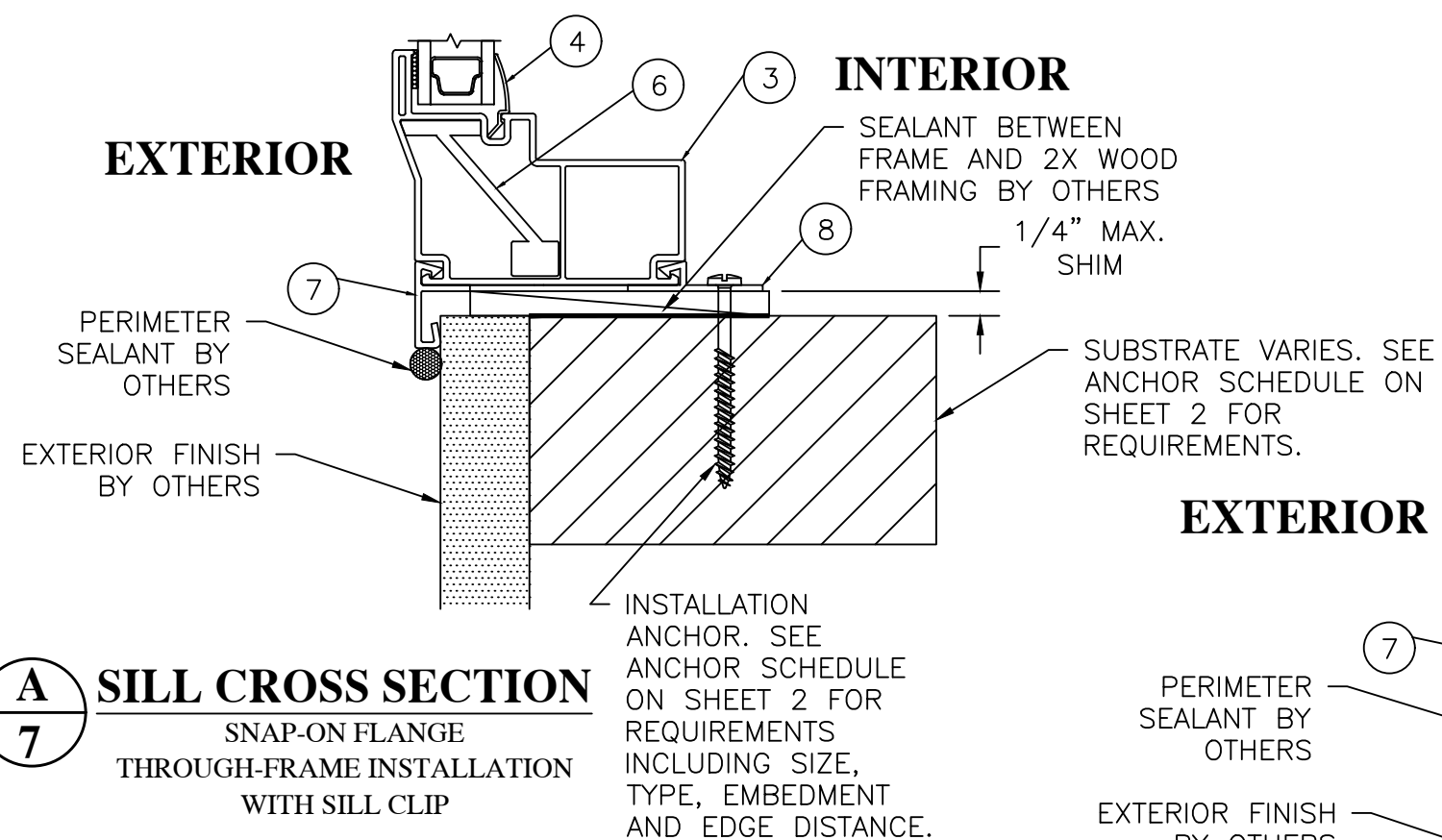


B HEAD CROSS SECTION

SNAP-ON FLANGE
THROUGH-FRAME INSTALLATION

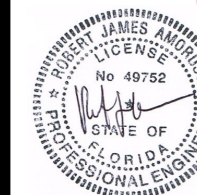


JAMB CROSS SECTION SNAP-ON FLANGE THROUGH-FRAME INSTALLATION

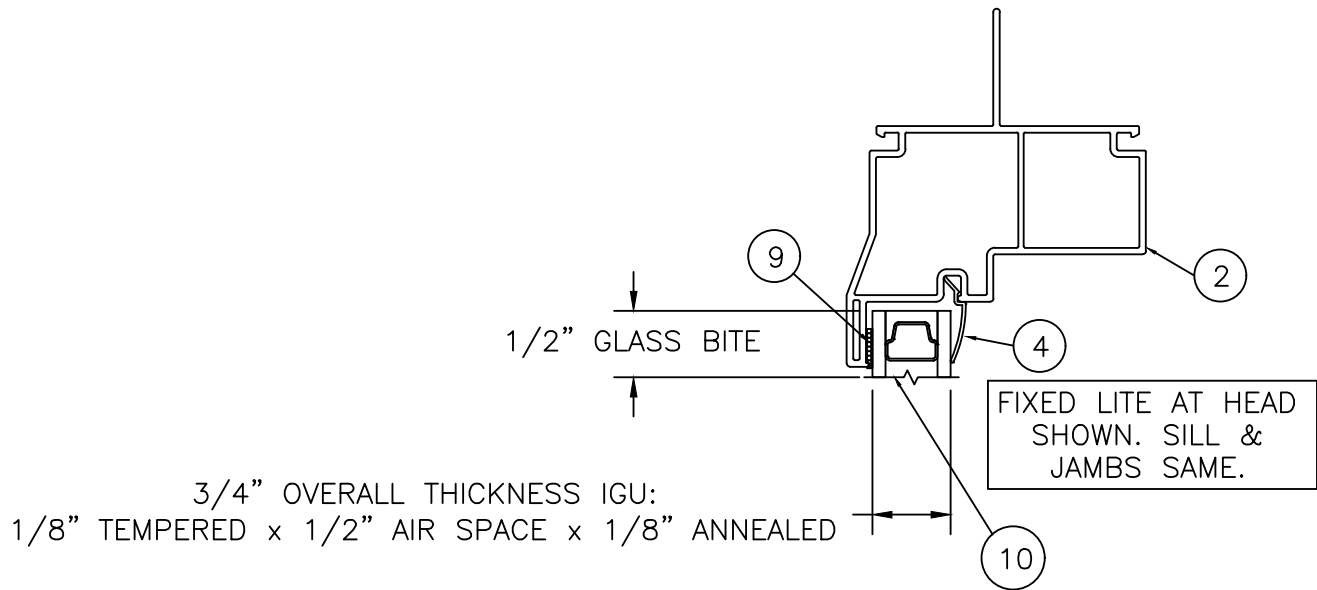


RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218		PROJECT # 421-0302	
TITLE: SERIES 8500 VINYL FIXED WINDOW CROSS SECTIONS - SNAP-ON FLANGE THRU FRAME INSTALL.			
PREPARED BY:			
 PDC PRODUCT DESIGN GROUP, LLC PO BOX 500773 LONGWOOD, FLORIDA 32752 EBPE CA. NO. 25935		DRAWN BY: RJA DATE: 12/11/19	
		SCALE: N.T.S. DRAWING NO: RWD00016	
REV: A SHEET: 7 OF 8		A UPDATED TO INCLUDE NEW TESTING	5/13/21 RJA
		REV DESCRIPTION	DATE BY

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



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Date: 2021.05.13 14:14:46 -04'00'



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. SUBSTITUTIONS ARE ALLOWED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S. 2/A440-11, SECTIONS 10.2.3.2 AND 10.2.3.4 AND AAMA/WDMA/CSA 101/I.S. 2/A440-08, SECTIONS 6.2.3.2 AND 6.2.3.4. SEE SHEET 1 FOR DETAILS RELATED TO WINDOW SIZE / GLAZING DETAIL / DESIGN PRESSURE.

GLAZING DETAIL A

BILL OF MATERIALS 8500 SERIES FIXED			
BOM NO.	PART NO.	DESCRIPTION	REMARKS
1	7868	JAMB	PVC
2	7868	HEAD	PVC
3	7868	SILL	PVC
4	6177	GLAZING BEAD	PVC
5	6555	SETTING BLOCK	NOT SHOWN
6		REINFORCEMENT	
7	8864	SNAP-ON FLANGE	PVC
8	6384	SILL CLIP	PVC
		GLAZING	
9		FOAM TAPE BACK-BEDDING	
10	GLAZING DETAIL A	3/4" OVERLL THICKNESS IGU 3/16" ANNEALED X AIR SPACE X 3/16" ANNEALED	

PROJECT # 421-0302

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

TITLE:
SERIES 8500 VINYL FIXED WINDOW
GLAZING DETAILS AND NOTES / BILL OF MATERIALS

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

DATE: 12/11/19
DRAWING NO: RWD0016
SHEET: 11 OF 8

RJA
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

BY: RJA
DATE: 5/13/21
DESCRIPTION: UPDATED TO INCLUDE NEW TESTING

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

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Robert J Amoruso
Date: 2021.05.13
14:14:59 -04'00'