



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "350 HurricaneShield® 4½" Vinyl (Shapes)" White PVC Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. PELL0031, titled "Series 350 4½" Vinyl Fixed Shaped Window – Impact", sheets 1 through 11 of 11, dated 12/03/12, with revision B dated 09/28/15, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 12-1219.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



MP
7/10/29/15

NOA No. 15-0401.04
Expiration Date: March 14, 2018
Approval Date: November 05, 2015
Page 1

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 12-1219.04)
2. Drawing No. PELL0031, titled "Series 350 4½" Vinyl Fixed Shaped Window – Impact", sheets 1 through 11 of 11, dated 12/03/12, with revision **B** dated 09/28/15, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of a fixed window, prepared by Element Materials Technology Des Moines, Test Report No. **ESP010156.2 Dade**, dated 08/01/12, signed and sealed by Jason R. Steen, P.E.
(Submitted under previous NOA No. 12-1219.04)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 03/06/15 and revised on 09/28/15, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.
2. Notice of Acceptance No. **12-1017.02** issued to **Quanex Building Products, Inc.** for "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 02/07/13, expiring on 12/26/16.
3. Notice of Acceptance No. **13-0425.15** issued to **Quanex Building Products, Inc.** for "**Antique Bronze Super Coated White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 06/20/13, expiring on 12/26/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0401.04

Expiration Date: March 14, 2018
Approval Date: November 05, 2015

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of no financial interest, independence, conformance and complying with **FBC 5th Edition (2014)**, issued by PTC Product Design Group, LLC, dated March 24, 2015, signed and sealed by Robert J. Amoruso, P.E.
2. Laboratory compliance letter for Test Report No. **ESP010156.2 Dade**, issued by Element Materials Technology Des Moines, dated 08/01/12, signed and sealed by Jason R. Steen, P. E.
(Submitted under previous NOA No. 12-1219.04)
3. Proposal No. **12-1088** issued by Product Control, dated 07/30/12, signed by Jaime D. Gascon, P.E.
(Submitted under previous NOA No. 12-1219.04)

G. OTHERS

1. Notice of Acceptance No. **12-1219.04**, issued to Pella Corporation for their Series **"350 HurricaneShield® Vinyl 4½" White PVC Fixed Shapes – L.M.I.**, approved on 03/14/13 and expiring on 03/14/18.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0401.04

Expiration Date: March 14, 2018
Approval Date: November 05, 2015

PELLA CORPORATION

SERIES 350 4 1/2" VINYL FIXED SHAPED WINDOW - LMI

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE DESIGN PRESSURE(S) STATED HEREIN AS FOLLOWS.
 - 1.1. IN COMPLIANCE WITH THE 5TH EDITION (2014) FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL VOLUMES.
 - 1.2. PERFORMANCE STANDARDS:
 - 1.2.1. TAS 201-94, LARGE MISSILE IMPACT.
 - 1.2.2. TAS 202-94.
 - 1.2.3. TAS 203-94.
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. ESP010156.2 DATED 08/01/12 AND ASSOCIATED LABORATORY STAMPED DRAWINGS BY ELEMENT MATERIALS TECHNOLOGY, DES MOINES, IA. TESTING WAS CONDUCTED TO TAS 201-94, TAS 202-94 AND TAS 203-94.
3. THIS PRODUCT EVALUATION DOCUMENT IS FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
4. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY, 2X FRAMING AND METAL 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, THE FOLLOWING:
 - 6.1 HIGH VELOCITY HURRICANE ZONE (HVHZ):
 - 6.1.1 LARGE MISSILE IMPACT REQUIREMENTS AT HEIGHTS UP TO 30 FEET ABOVE GRADE:
 - 6.1.1.1 THESE WINDOWS MEET LARGE MISSILE IMPACT REQUIREMENTS OF THE 5TH EDITION (2014) FBC AND DO NOT REQUIRE USE OF AN APPROVED HVHZ IMPACT PROTECTIVE SYSTEM.
 - 6.1.2 SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS EXCEEDING 30 FEET ABOVE GRADE:
 - 6.1.2.1 THESE WINDOWS MEET SMALL MISSILE IMPACT REQUIREMENTS OF THE 5TH EDITION (2014) FBC WHEN GLAZED ON THE EXTERIOR USING SAFETY GLAZING AND DO NOT REQUIRE USE OF AN APPROVED IMPACT PROTECTIVE SYSTEM.
 - 6.2 WINDBORNE DEBRIS AREAS OUTSIDE THE HIGH VELOCITY HURRICANE ZONE(NON-HVHZ):
 - 6.2.1 WHEN INSTALLED IN LOCATIONS WHERE NON-HVHZ WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THIS PRODUCT DOES NOT REQUIRE USE OF AN APPROVED IMPACT PROTECTIVE SYSTEM.
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. BOUNDING BOX DIMENSIONS FOR GEOMETRIC FIXED WINDOW SHAPES MUST BE EQUAL TO OR LESS THAN RECTANGULAR DIMENSIONS SHOWN HEREIN.
9. MATERIALS:
 - 9.1. WINDOW FRAME MATERIAL: VINYL (PVC) PER QUANEX BUILDING PRODUCTS NOA NO. 12-1017.02
 - 9.2. LAMINATED GLAZING INTERLAYERS PER MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
 - 9.2.1. KURARAY SENTRYGLAS (CLEAR AND WHITE) INTERLAYER MATERIAL PER NOA NO. 13-0328.09.
10. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-09a.
11. DESIGNATION "O" STANDS FOR FIXED LITE SASH
12. THE LEAST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR ON THE PRODUCT'S CERTIFICATION SHALL CONTROL FOR THE INSTALLED WINDOW ASSEMBLY.
13. 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 6, 7 and 8 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
4. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
5. 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 THE TABLES ON SHEET 2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE TABLES ON SHEET 2 ARE ACCEPTABLE.
 - 5.1. SEE ADDITIONAL NOTES 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.
 - 6.1. FOR BLOCK, FIN & FLANGE FRAME INSTALLATIONS, SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR.
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.

SEE SHEET 2 FOR DESIGN PRESSURES.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS
2	ANCHOR SCHEDULES AND DP CHART
3 - 5	ELEVATIONS & ANCHOR LAYOUTS
6 - 8	INSTALLATION SECTIONS
9	GLAZING DETAILS
10	APPROVED GEOMETRIC SHAPES
11	BILL OF MATERIAL AND COMPONENT DETAILS

PROJECT # 414-0609

	REVISED PER MID COMMENTS	9/28/15	RJA	
	UPDATE TO 5TH EDITION (2014) FBC	3/16/15	RJA	DATE
B		A	REV	
	DESCRIPTION			

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

DATE: 12/03/12
DRAWING NO.: PELL0031
SHEET: 1 OF 11

DRAWN BY: JBH
SCALE: N.T.S.
REV: B

PREPARED BY:

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
PHONE: 321.880.1788
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EMAIL: info@pds-corp.com
FBPE C.A. NO. 25935

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. **15-0401-04**
Expiration Date **03/14/2018**
By
Miami Dade Product Control

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

SERIES 350 FIXED GEOMETRICALLY SHAPED WINDOW INSTALLATION REQUIREMENTS

Max. Size Tested	Design Pressure (PSF)	Substrate	Installation Type	End Spacing All corners	Quantity of Anchors at Head & Sill	Center to Center Spacing Head & Sill	Quantity of Anchors at Jambs	Center to Center Spacing Jambs
51-3/4" x 108" SPRINGLINE	+60/-65	Wood/Metal *	Clip	6"	As Required Based on Spacing	9"	As Required Based on Spacing	9.5"
		Metal *	Thru-Frame			9"		6.875"
		Concrete/CMU	Clip					
		Wood/Concrete/CMU	Thru-Frame					
51-3/4" x 108" ARCHHEAD	+60/-65	Wood/Metal *	Clip	6"	As Required Based on Spacing	9.9375"	As Required Based on Spacing	9.375"
		Metal *	Thru-Frame			9.9375"		7.25"
		Concrete/CMU	Clip					
		Wood/Concrete/CMU	Thru-Frame					
95-1/2" x 58-1/2" ARCHHEAD	+60/-65	Wood/Metal *	Clip	6"	As Required Based on Spacing	9"	As Required Based on Spacing	10.375"
		Metal *	Thru-Frame			7"		8.375"
		Concrete/CMU	Clip					
		Wood/Concrete/CMU	Thru-Frame					

INSTALLATION ANCHOR SCHEDULE

INSTALLATION TYPE	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	EMBEDMENT (IN)	EDGE DISTANCE (IN)	ANCHOR CAPACITIES BASED ON
INSTALLATION CLIP OR THRU-FRAME	PAN OR HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1-1/2"	1-1/8"	MIN. 2000 PSI CONCRETE
				ELCO ULTRACONS	1-3/8"	1"	MIN. 2500 PSI CONCRETE
				HILTI KWIK-CON II+	1-3/4"	1-1/8"	MIN. 2000 PSI CONCRETE
			MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1"	2"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT, DENSITY > 117 PDF
				ELCO ULTRACONS	1-1/4"	1"	
				HILTI KWIK-CON II+	1"	1-1/8"	
THRU-FRAME	PAN OR HEX HEAD	NO. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) (4)	1-3/8"	3/4" LATERAL (3)	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55.
INSTALLATION CLIP, INSTALLATION CLIP - BENT	PAN OR HEX HEAD	NO. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) (4) ASME B18.6.4 (TAPPING SCREW) (2) (4)	1-3/8"	3/4" LATERAL 1/2" WITHDRAWAL (3)	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55.
INSTALLATION CLIP, INSTALLATION CLIP - BENT OR THRU-FRAME	PAN OR HEX HEAD	NO. 10	20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS	ASME B18.6.4 (TAPPING SCREW) (4)	FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY	5/16"	ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER
			1/8" MIN. THK. A-36 STEEL OR BETTER	ASME B18.6.4 (TAPPING SCREW) (4)		5/16"	ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER
			1/8" MIN. THK. 6063-T5 ALUMINUM OR BETTER	ASME B18.6.4 (TAPPING SCREW) (4)		3/8"	6063-T5 ALUMINUM OR BETTER

- NOTES:**
- 1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.
 - 2) FOR WOOD AND TAPPING SCREWS INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 7/64" PILOT HOLE FOR LATERAL APPLICATIONS AND 3/32" FOR WITHDRAWAL APPLICATIONS. SEE NOTE 3 BELOW FOR FURTHER DEFINITION.
 - 3) LATERAL IS APPLICABLE TO INSTALLATION CLIP AND THRU-FRAME; WITHDRAWAL IS APPLICABLE TO INSTALLATION CLIP - BENT.
 - 4) WOOD AND TAPPING SCREWS SHALL CONFORM TO A GRADE 5 STRENGTH OF 92 KSI YIELD STRENGTH AND 120 KSI ULTIMATE STRENGTH.

*** METAL SUBSTRATES INCLUDE THE FOLLOWING:**
 (a) 20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS, ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER.
 (b) 1/8" MIN. THK. ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER.
 (c) 0.060" MIN. THK. 6063-T5 ALUMINUM OR BETTER.

- NOTES:**
1. **INSTALLATION ANCHOR SCHEDULE**
 - 1.1. THIS TABLE LISTS APPROVED ANCHOR SPECIFICATIONS BASED ON THE INSTALLATION TYPE AND SUBSTRATE.
 2. **SERIES 350 FIXED GEOMETRICALLY SHAPED WINDOW INSTALLATION REQUIREMENTS**
 - 2.1. THIS TABLE LISTS THE FOLLOWING INFORMATION.
 - 2.1.1. DESIGN PRESSURE (PSF).
 - 2.1.2. END DISTANCE (ED) OF ANCHORS AT FRAME ENDS AS DIMENSIONED ON ELEVATION DRAWINGS.
 - 2.1.3. MAXIMUM O.C. (ON CENTER) SPACING FOR ANCHORS BETWEEN THE FRAME END ANCHORS DIMENSIONED ON ELEVATION DRAWINGS.
 - 2.1.1.1. QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS.
 - 2.1.2. MAXIMUM WINDOW SIZES (W x H)
 - 2.2. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
 - 2.3. FOR WINDOW SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.

PROJECT # 414-0609

REVISED PER MD COMMENTS	9/28/15	RJA	DATE
UPDATE TO 5TH EDITION (2014) FBC	3/16/15	RJA	DATE
DESCRIPTION			

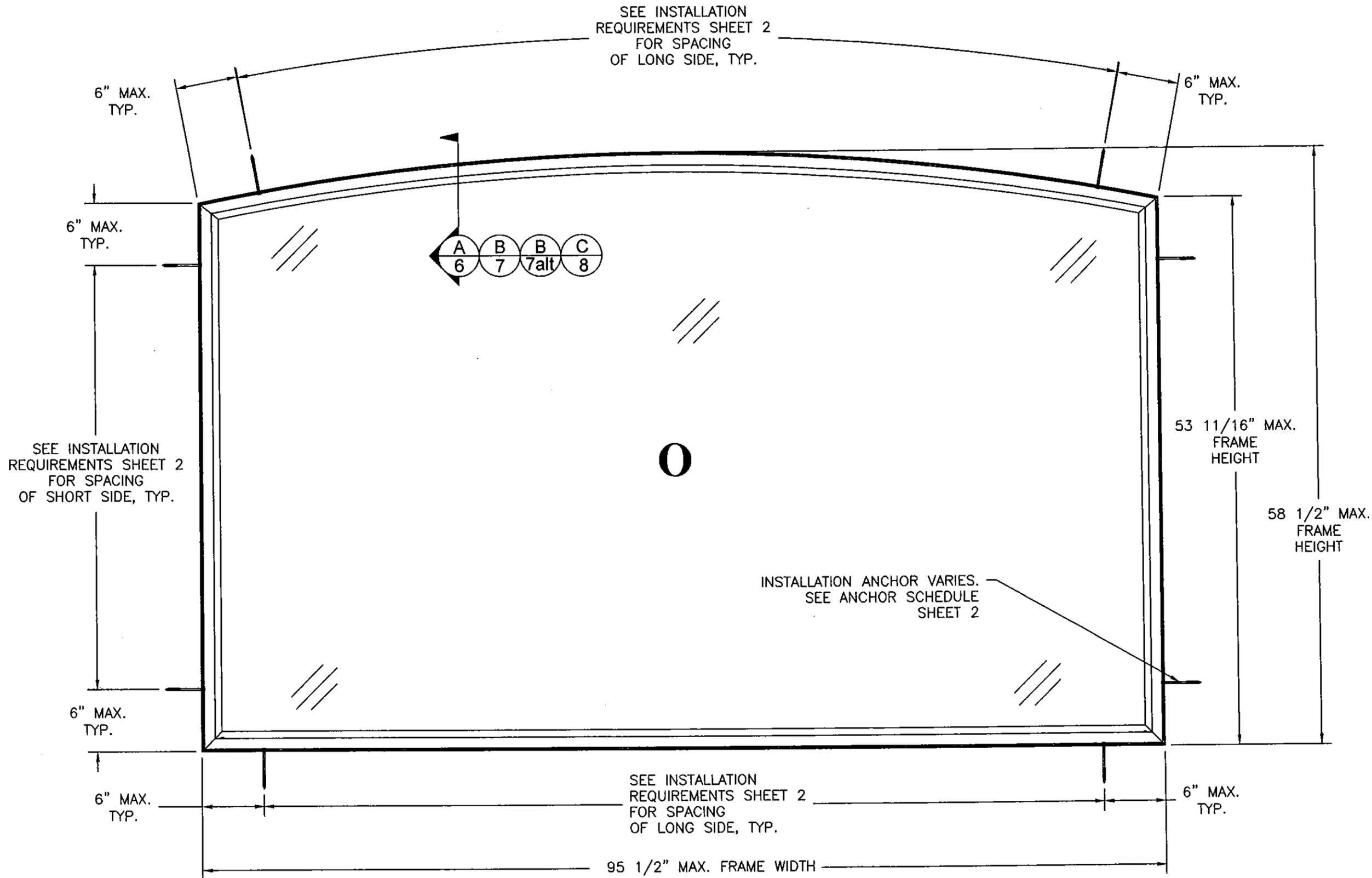
PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

TITLE	SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT ANCHOR SCHEDULES AND DP CHART
DATE	12/03/12
DRAWN BY	JBH
SCALE	N.T.S.
DRAWING NO.	PELL0031
SHEET	2 OF 11

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. **15-0401-04**
 Expiration Date **03/31/2018**
 By *Manuel*
 Miami Dade Product Control

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





SERIES 350 VINYL FIXED SHAPED WINDOW
95-1/2" x 58-1/2" ARCH HEAD

EXTERIOR VIEW
 BOX FRAME SHOWN, FLANGE AND FIN FRAMES ALSO APPROVED
 SEE SHEET 10 FOR APPROVED GEOMETRIC SHAPES

PROJECT # 414-0609

REV	DESCRIPTION	DATE	BY
B	REVISED PER MD COMMENTS	9/28/15	RJA
A	UPDATE TO 5TH EDITION (2014) FBC	3/16/15	RJA

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

PELLA

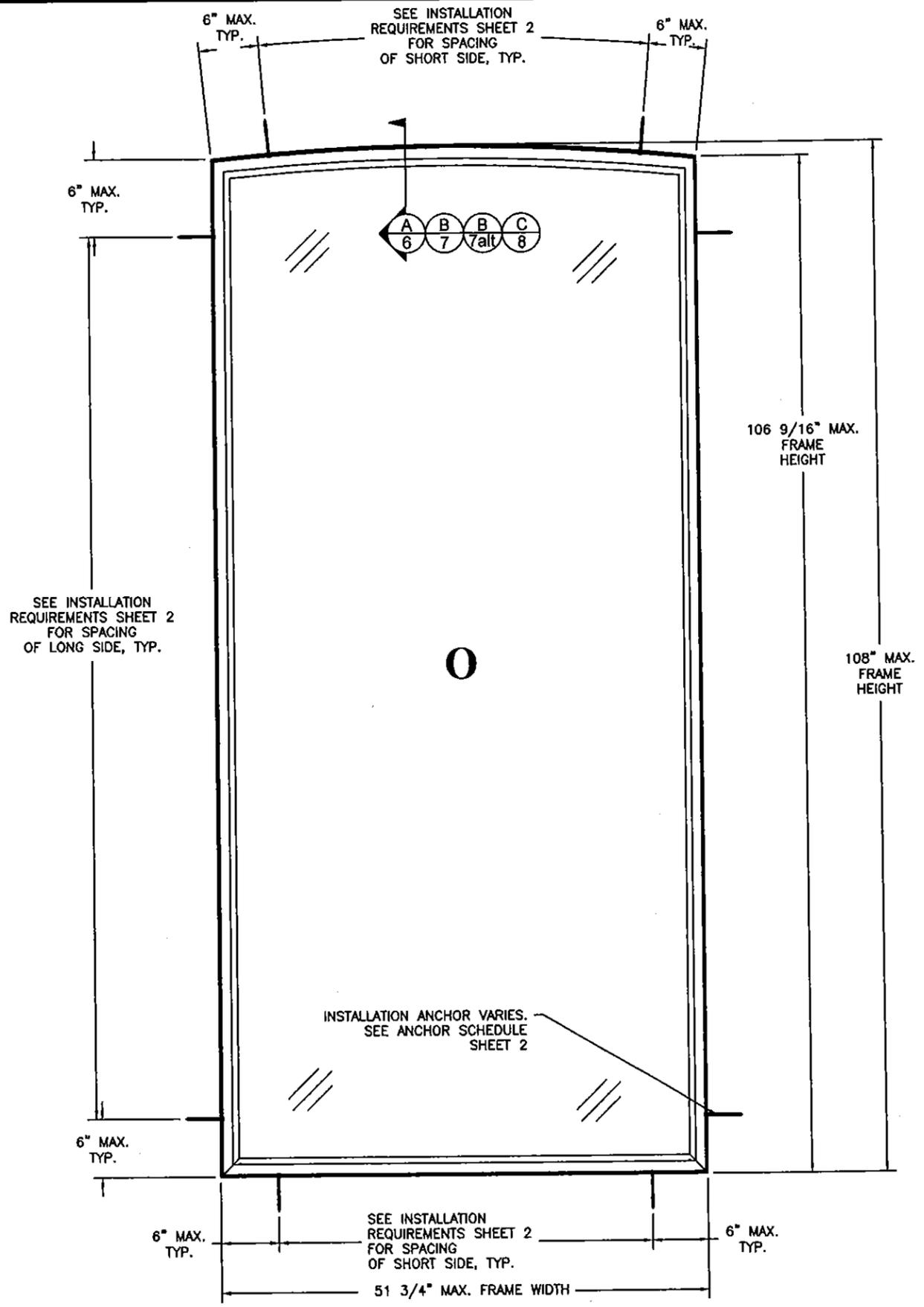
TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT
 95-1/2" x 58-1/2" ARCH HEAD ELEVATION & ANCHORING LAYOUT

PREPARED BY: J.B.H. DATE: 12/03/12
 SCALE: N.T.S. DRAWING NO: PELL0031
 REV: B SHEET: 3 OF 11

PTC PRODUCT DESIGN GROUP, LLC
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 FERPE C.A. NO. 25935

PRODUCT REVISED
 is complying with the Florida
 Building Code
 Acceptance No. **15-0401.04**
 Expiration Date **03/31/2018**
 By *Manuel J...*
 Miami Dade Product Control

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



SERIES 350 VINYL FIXED SHAPED WINDOW
51-3/4" x 108" ARCH HEAD

EXTERIOR VIEW
 BOX FRAME SHOWN, FLANGE AND FIN FRAMES ALSO APPROVED
 SEE SHEET 10 FOR APPROVED GEOMETRIC SHAPES

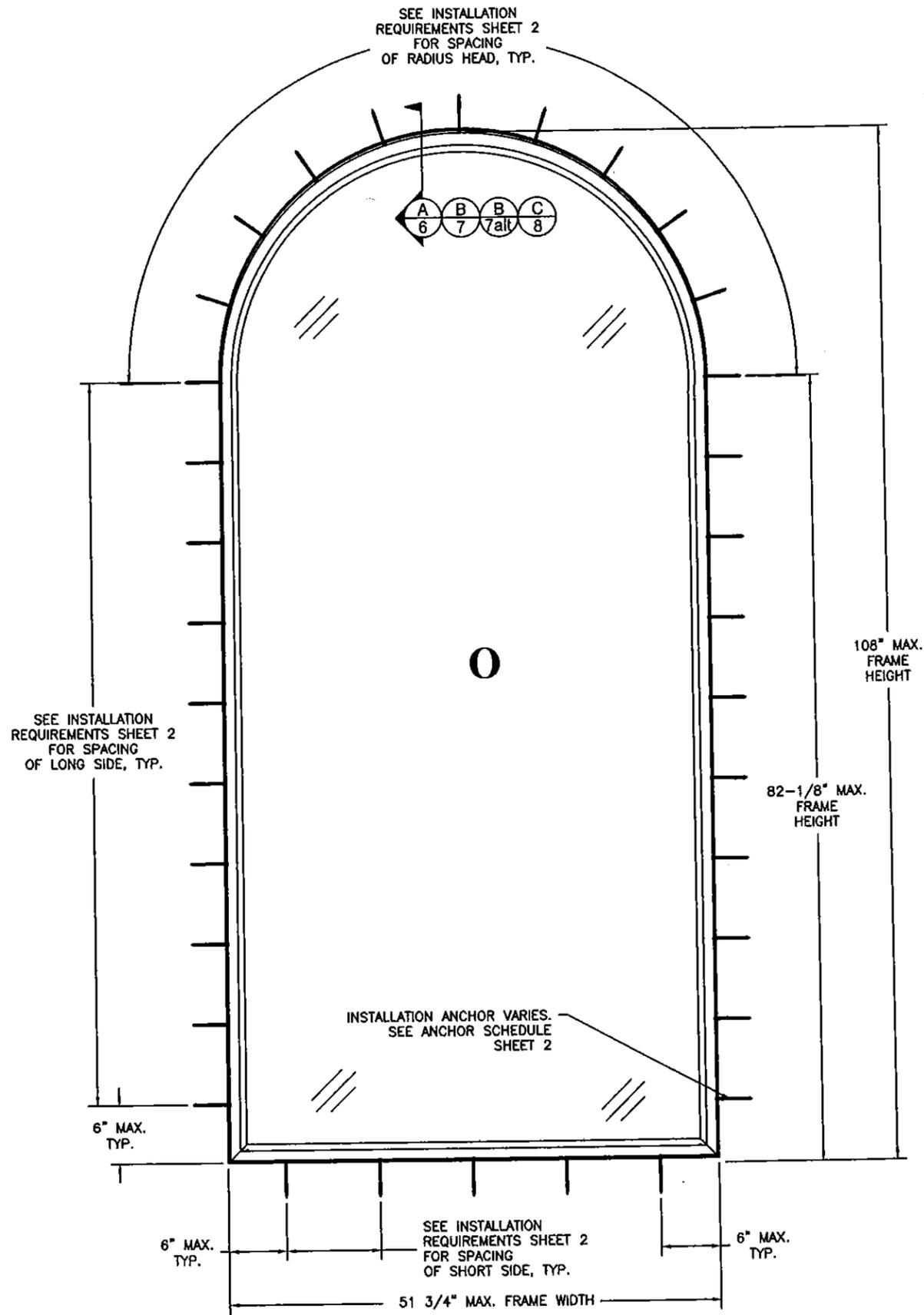
PROJECT # 414-0609		REVISED PER MD COMMENTS	9/28/15	RJA	RJA	DATE
B	A	UPDATE TO 5TH EDITION (2014) FBC	3/16/15			DESCRIPTION
REV	DATE	DESCRIPTION				

PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219		DATE	12/03/12
TITLE	SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT 51-3/4" x 108" ARCH HEAD ELEVATION AND ANCHORING LAYOUT	DRAWING NO.	PELL0031
PREPARED BY:	JIBH	SCALE:	N.T.S.
DRAWN BY:	JIBH	REV:	B
		SHEET:	4 OF 11

PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 25925	Phone: 321.690.1788 Fax: 321.690.1786 Email: info@ptc-corp.com
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PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **15-0401-04**
 Expiration Date **03/14/2018**
 By *Manuel Cruz*
 Miami Dade Product Control

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



SERIES 350 VINYL FIXED SHAPED WINDOW
51-3/4" x 108" SPRINGLINE

EXTERIOR VIEW
 BOX FRAME SHOWN, FLANGE AND FIN FRAMES ALSO APPROVED
 SEE SHEET 10 FOR APPROVED GEOMETRIC SHAPES

PROJECT # 414-0609

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT
 51-3/4" x 108" SPRINGLINE ELEVATION AND ANCHORING LAYOUT

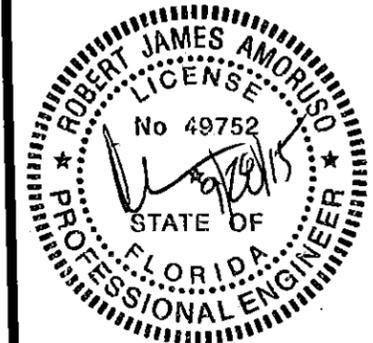
PREPARED BY: JBH
 DRAWN BY: N.T.S.
 DATE: 12/03/12
 DRAWING NO: PELL0031
 SHEET: 5 OF 11

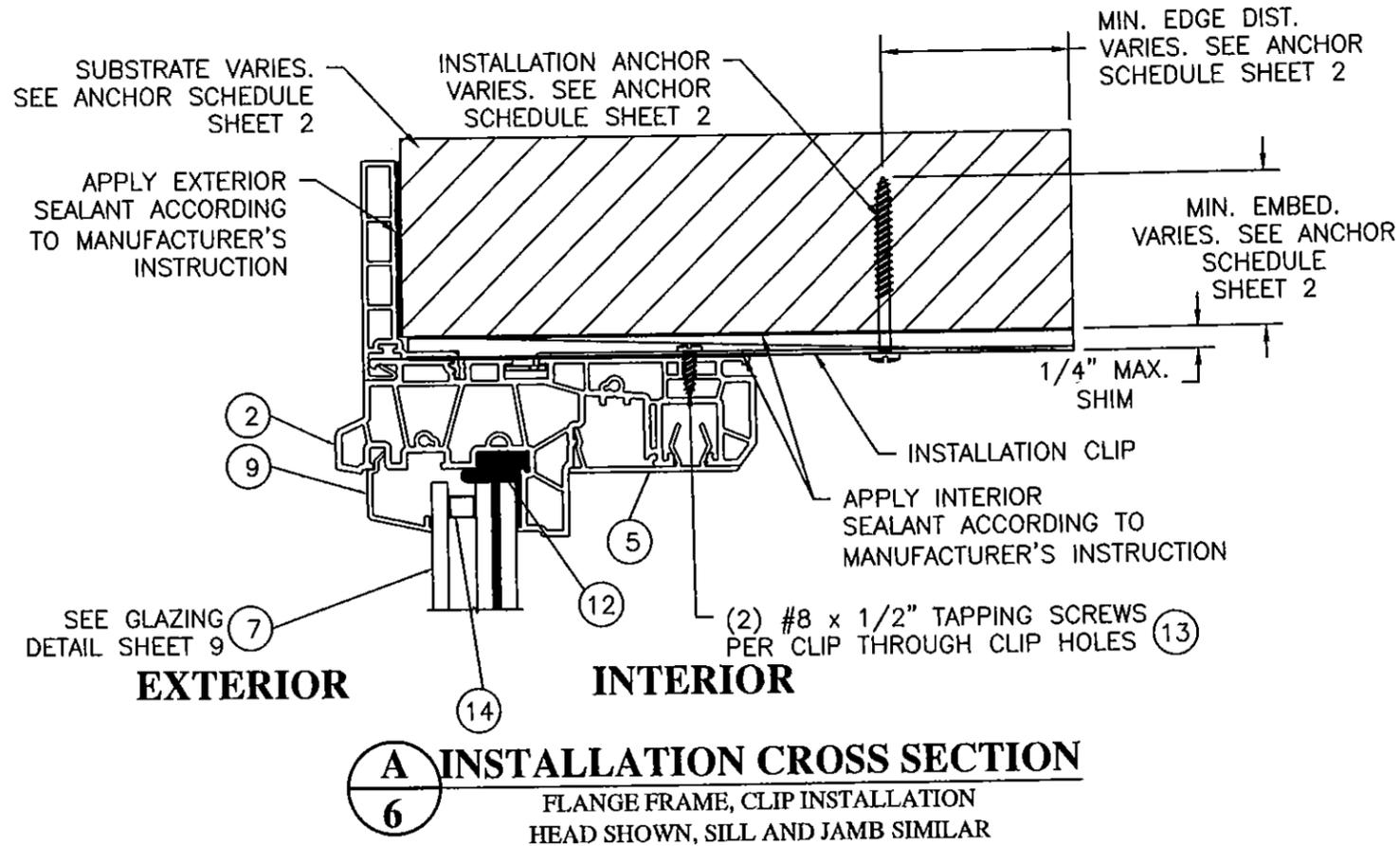
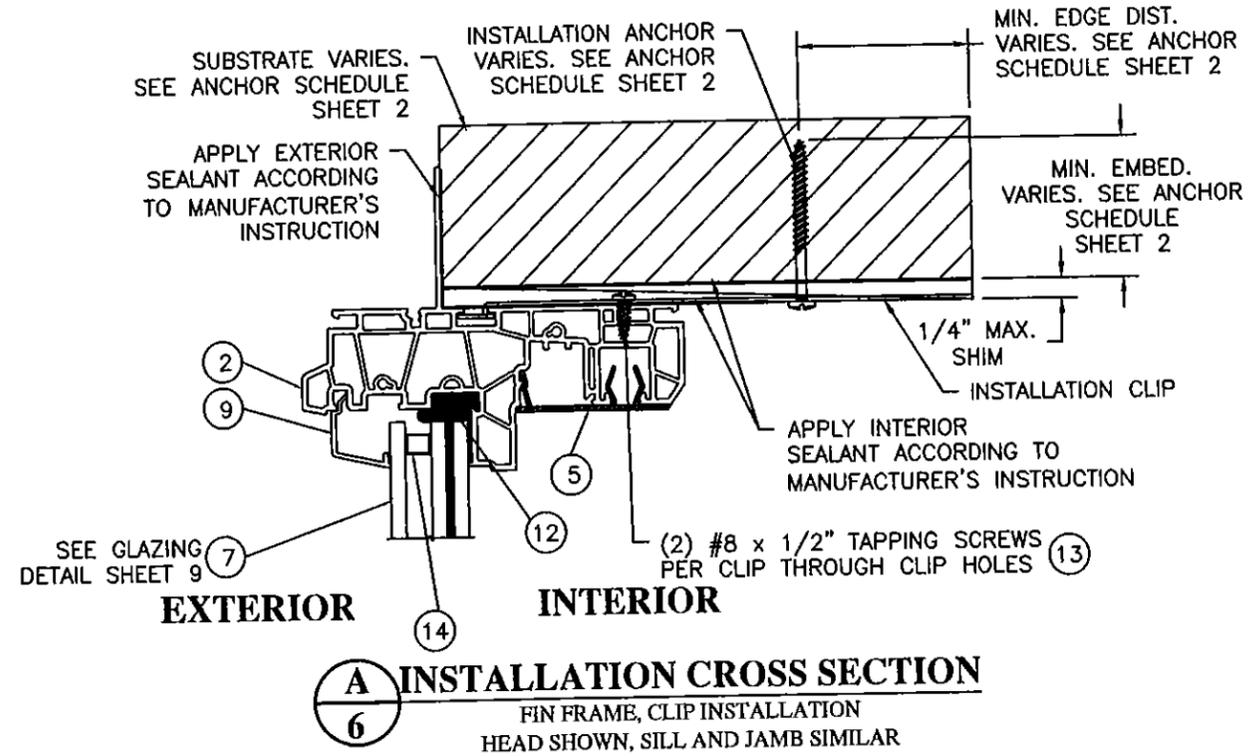
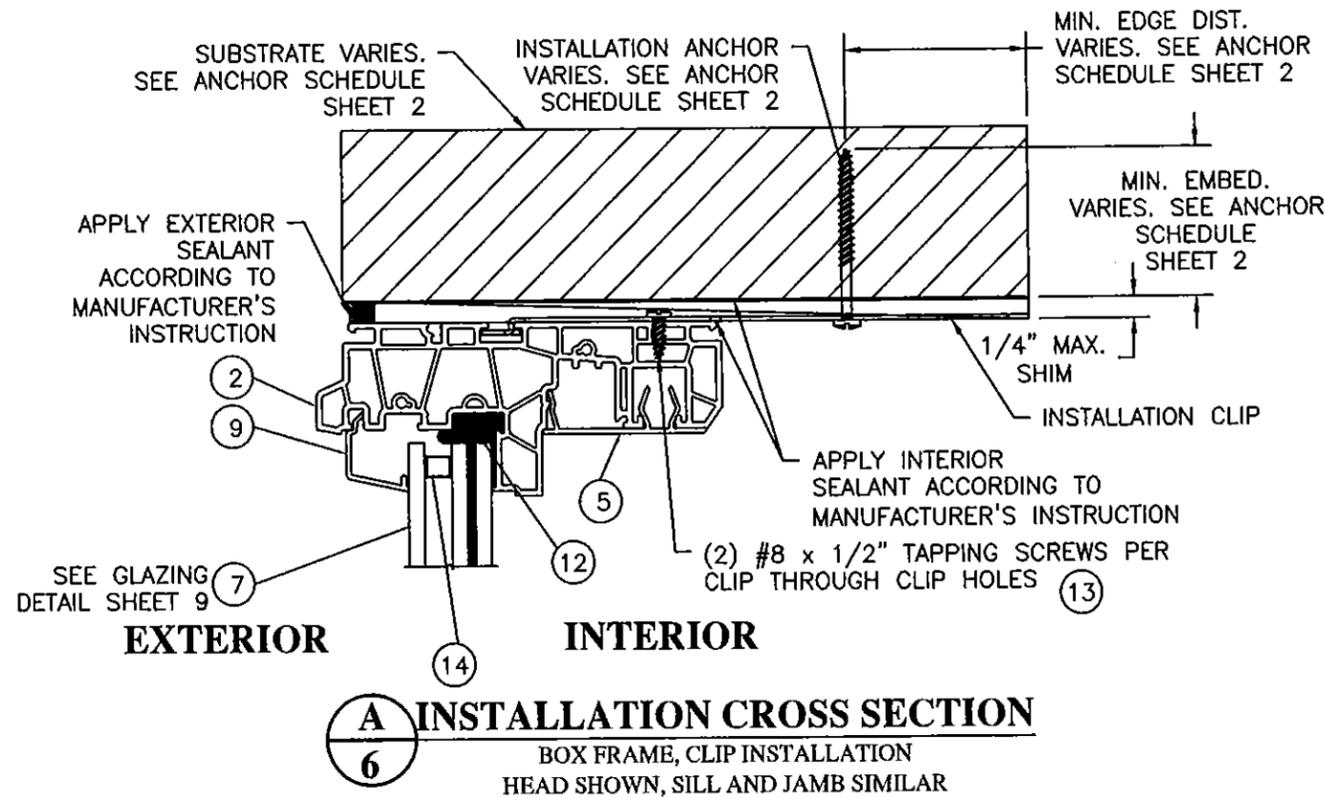


PTC PRODUCT DESIGN GROUP, LLC
 LONGWOOD, FLORIDA 32752
 FBPE, C.A. NO. 25935
 Phone: 321.690.1788
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 Email: info@ptc-compani

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 15-0401-04
 Expiration Date 03/24/2018
 By *Manuel Jimenez*
 Miami Dade Product Control

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





PROJECT # 414-0609

REV	DESCRIPTION	DATE	BY
B	REVISED PER MD COMMENTS	9/28/15	RJA
A	UPDATE TO 5TH EDITION (2014) FBC	9/16/15	RJA

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

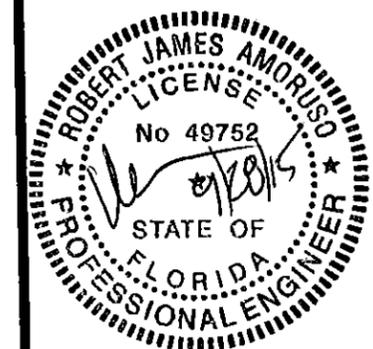
TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT
 CLIP INSTALLATION SECTIONS

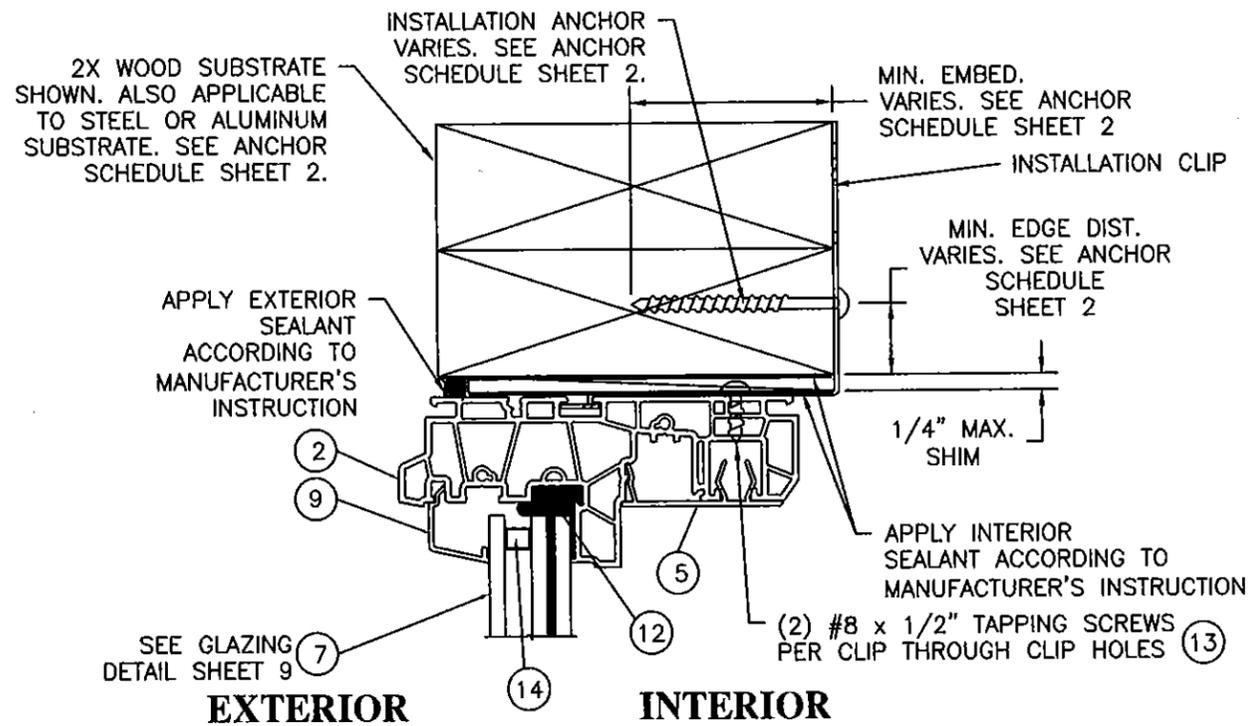
DATE:	12/03/12
DRAWN BY:	JBH
SCALE:	N.T.S.
DRAWING NO.:	PELL0031
SHEET:	6 OF 11
REV:	B



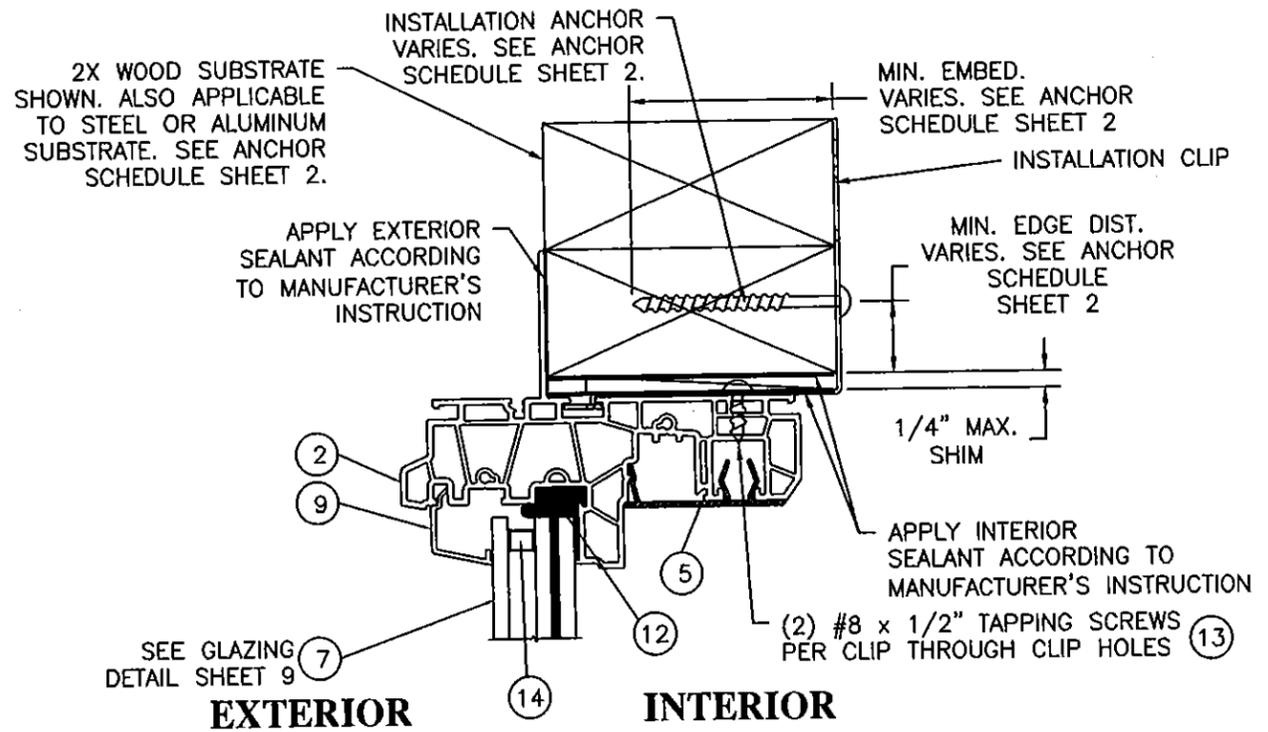
PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 15-0401-0
 Expiration Date 03/14/2018
 By *Manuel Perez*
 Miami/Dade Product Control

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

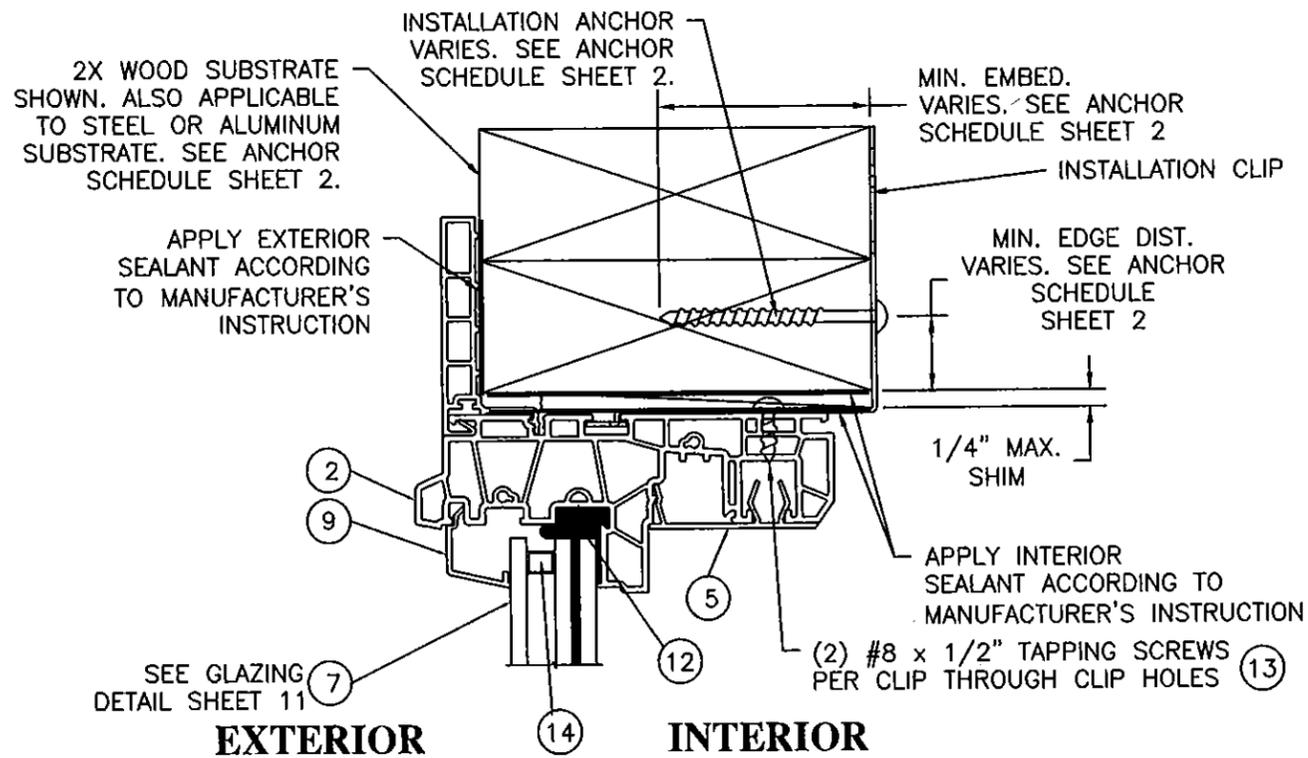




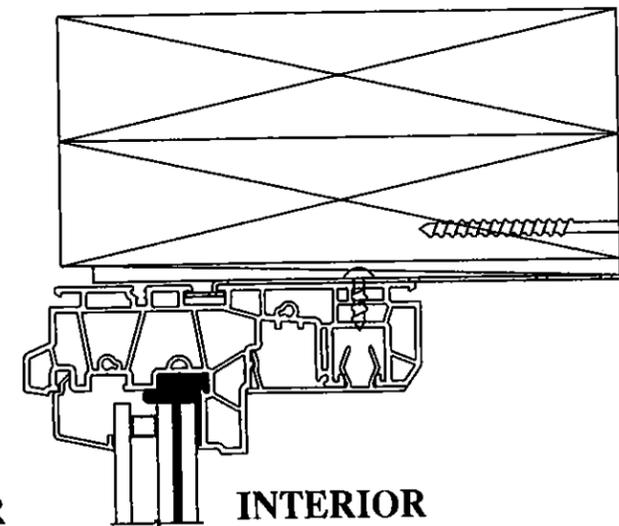
B **7** **INSTALLATION CROSS SECTION**
 BOX FRAME, BENT CLIP INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR



B **7** **INSTALLATION CROSS SECTION**
 FIN FRAME, BENT CLIP INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR



B **7** **INSTALLATION CROSS SECTION**
 FLANGE FRAME, BENT CLIP INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR



B **7alt** **ALTERNATE INSTALLATION CROSS SECTION**
 BOX FRAME SHOWN
 (ALSO APPLICABLE TO FIN AND FLANGE FRAME)
 ALTERNATE BENT CLIP INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR
 SEE OTHER B SECTIONS FOR DETAILS

PROJECT # 414-0609

REV	DESCRIPTION	DATE	BY
B	REVIS PER MD COMMENTS	9/28/15	RJA
A	UPDATE TO 5TH EDITION (2014) FBC	3/16/15	RJA

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

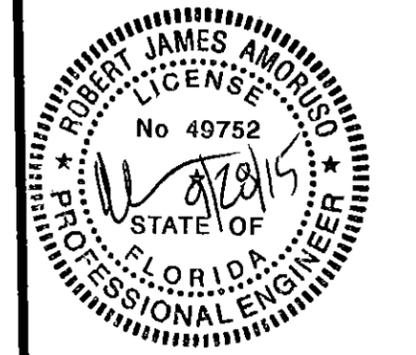
TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT BENT CLIP INSTALLATION SECTIONS

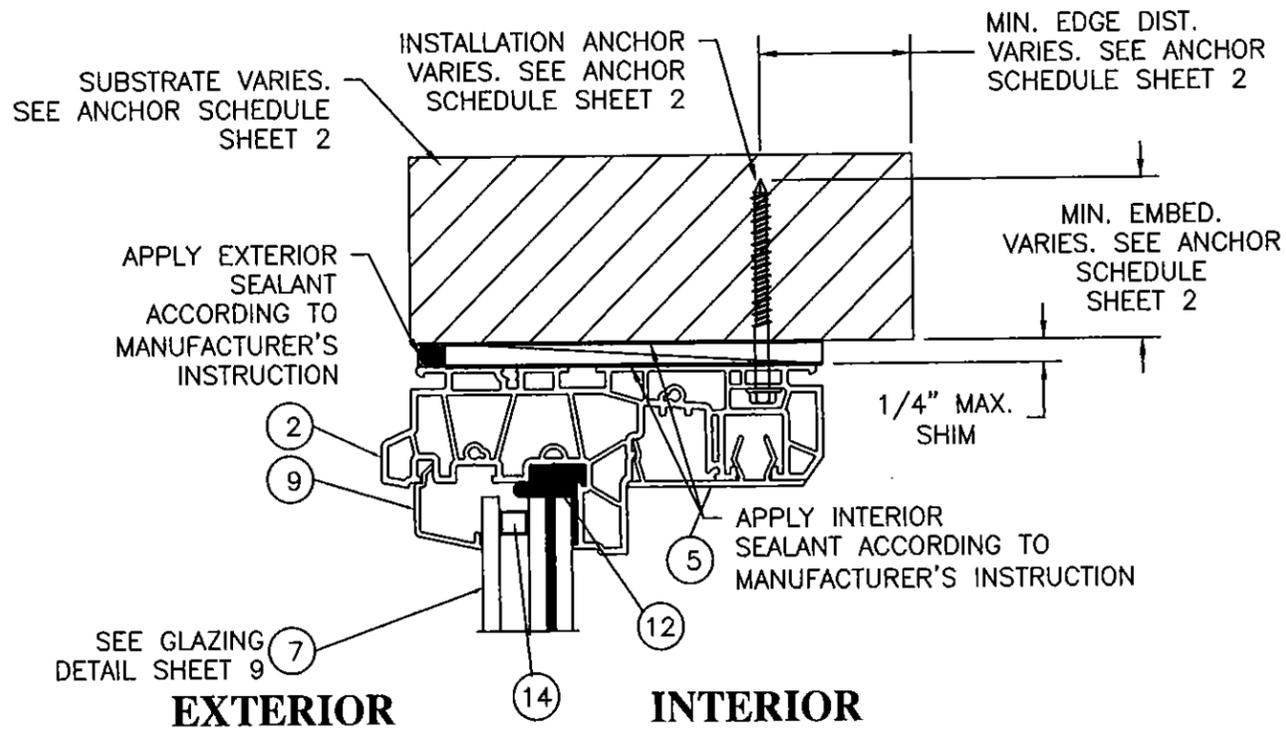
DATE:	12/03/12
DRAWN BY:	JBH
SCALE:	N.T.S.
DRAWING NO.:	PELL0031
REV:	B
SHEET:	7 OF 11



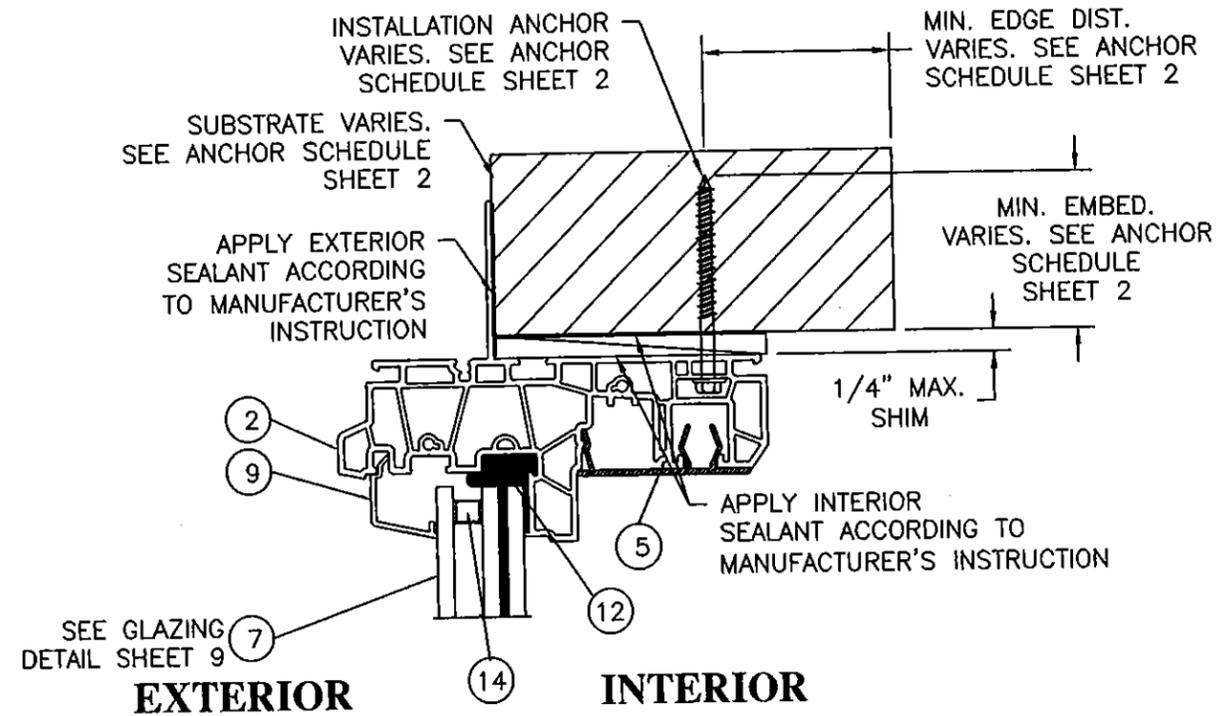
PRODUCT REVISED as complying with the Florida Building Code Acceptance No. **15-0401-04** Expiration Date **2/3/14/2018**
 By *Manuel Perez*
 Miami Dade Product Control

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

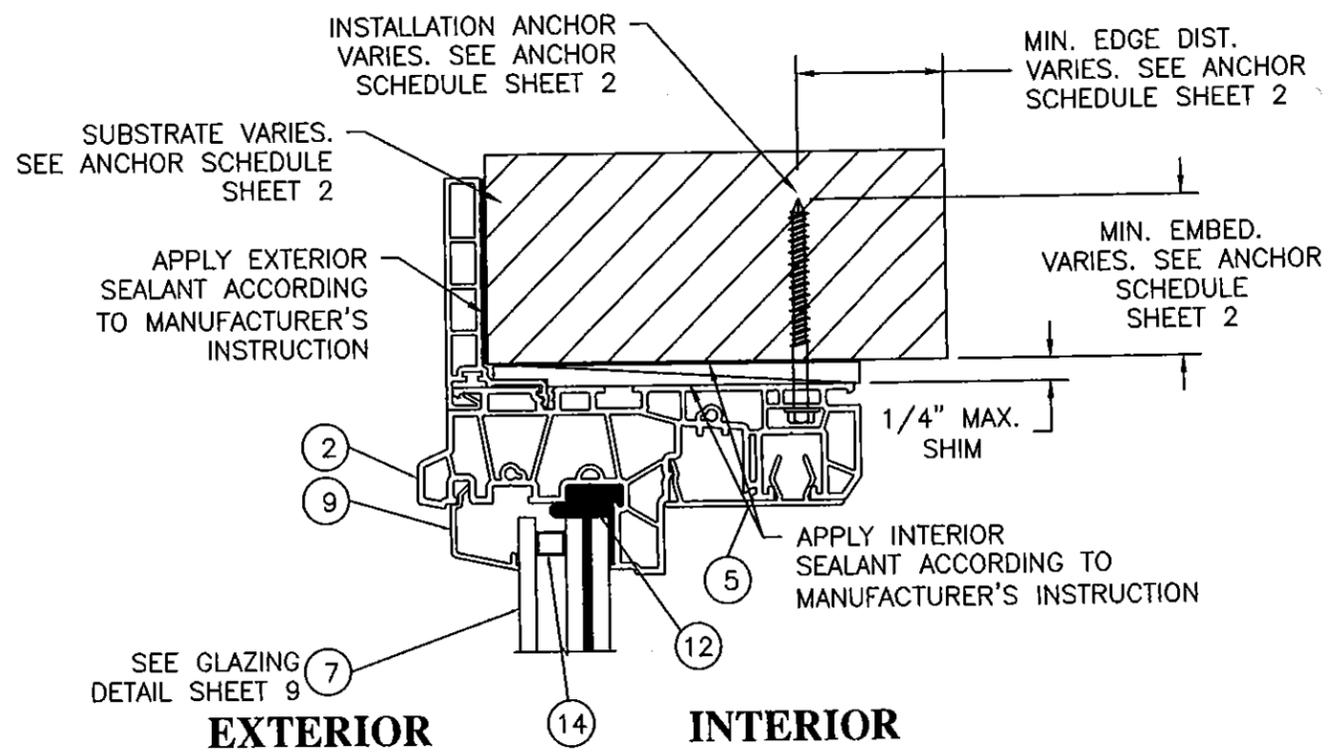




C INSTALLATION CROSS SECTION
8 BOX FRAME, THRU FRAME INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR



C INSTALLATION CROSS SECTION
8 FIN FRAME, THRU FRAME INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR



C INSTALLATION CROSS SECTION
8 FLANGE FRAME, THRU FRAME INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR

PROJECT # 414-0609

REV	DESCRIPTION	DATE	BY
B	REVISED PER MD COMMENTS	9/28/15	RJA
A	UPDATE TO 5TH EDITION (2014) FBC	3/16/15	RJA

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

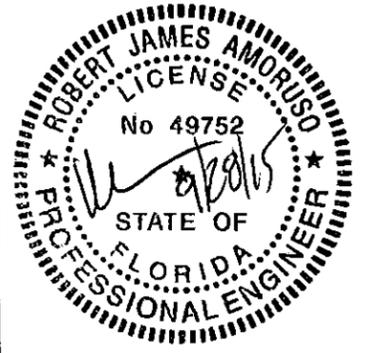
TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT THRU FRAME INSTALLATION SECTIONS

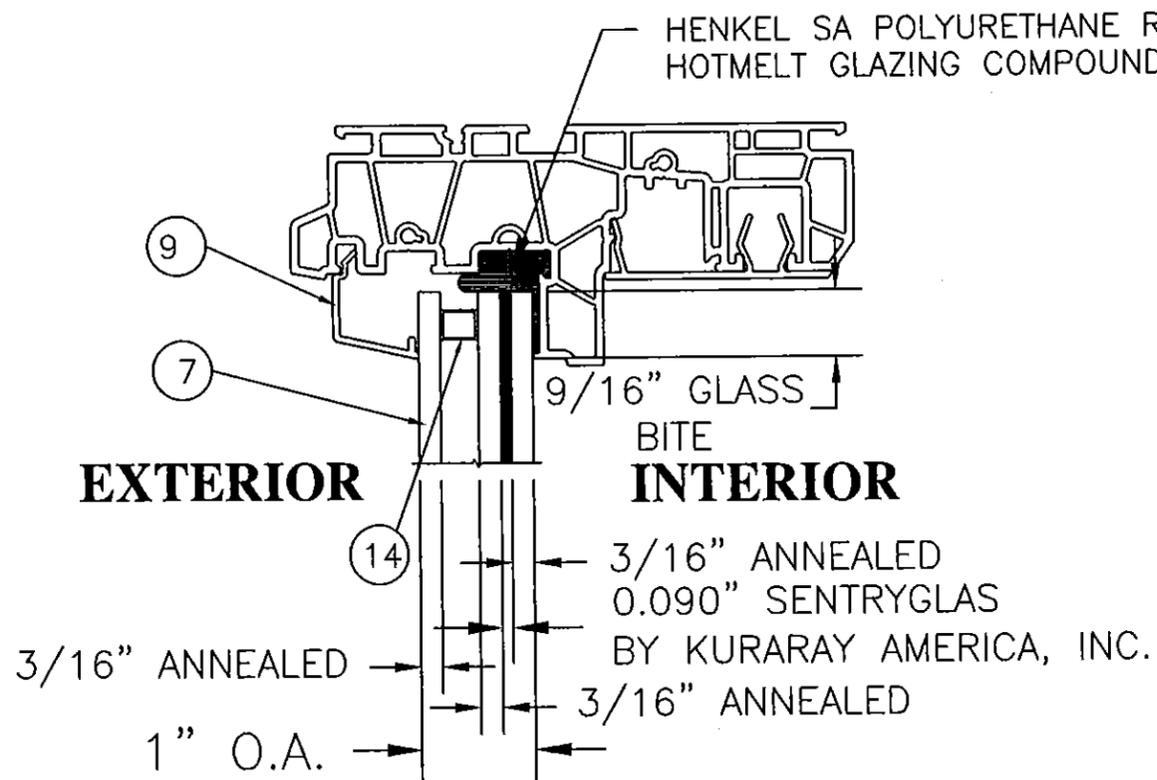
DATE:	12/03/12
DRAWN BY:	JBH
SCALE:	N.T.S.
DRAWING NO.:	PELL0031
SHEET:	8 OF 11
REV:	B

PTC PRODUCT DESIGN GROUP, LLC
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 FEPE C.A. NO. 25935

PRODUCT REVISED is complying with the Florida Building Code
 Acceptance No. 15-0401-04
 Expiration Date 03/14/2018
 By *Manuel*
 Miami Dade Product Control

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



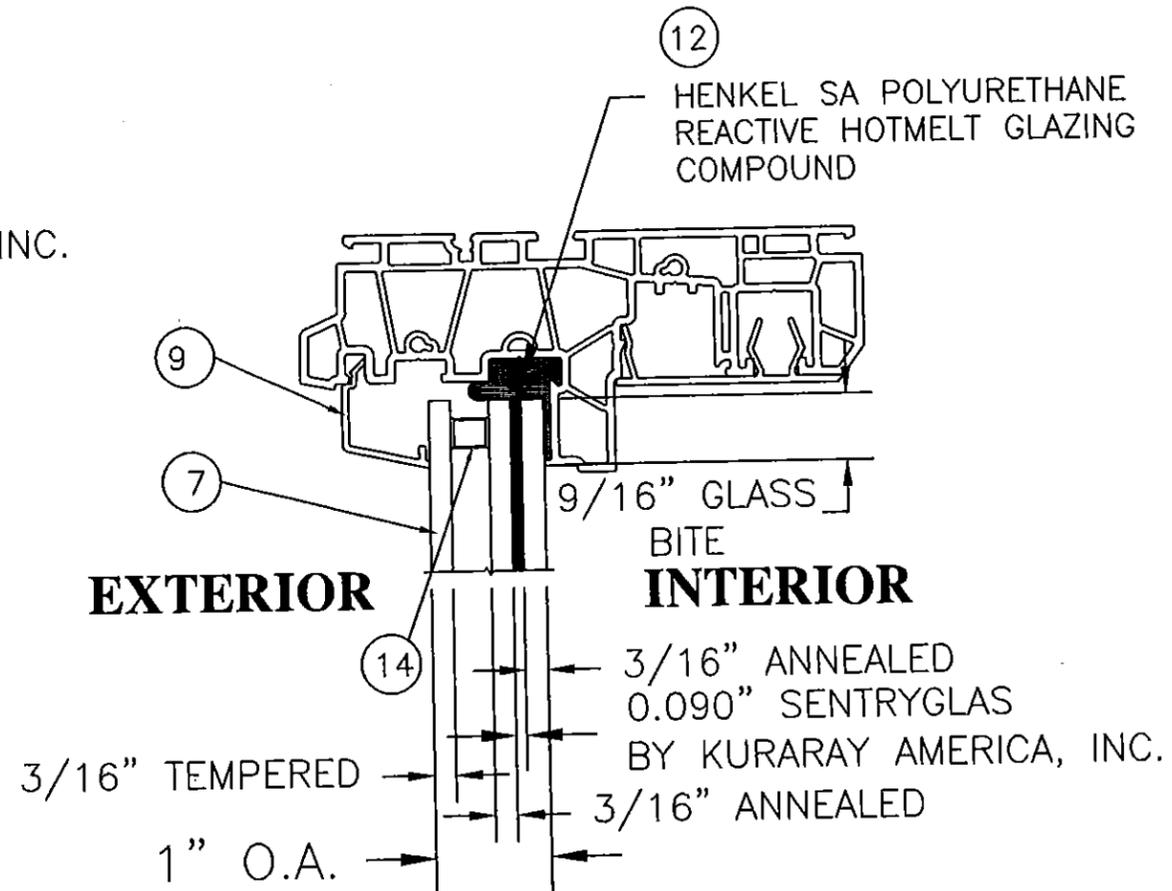


EXTERIOR

INTERIOR

GLAZING DETAIL 1

**BOX HEAD SHOWN - JAMBS AND SILL SIMILAR
FLANGE AND FIN FRAME SAME
(AS-TESTED)**



EXTERIOR

INTERIOR

GLAZING DETAIL 2

**BOX HEAD SHOWN - JAMBS AND SILL SIMILAR
FLANGE AND FIN FRAME SAME
(AS-TESTED)**

GLAZING NOTES:

- 1) GLAZING DETAILS 1 AND 2 MEET LARGE MISSILE IMPACT REQUIREMENTS AT HEIGHTS UP TO 30 FEET ABOVE GRADE AS REQUIRED BY THE 5TH EDITION (2014) FLORIDA BUILDING CODE.
- 2) GLAZING DETAIL 1 DOES NOT MEET SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHT GREATER THAN 30 FEET ABOVE GRADE AS REQUIRED BY THE 5TH EDITION (2014) FLORIDA BUILDING CODE.
- 3) GLAZING DETAIL 2 MEETS SMALL MISSILE REQUIREMENTS AT HEIGHTS GREATER THAN 30 FEET ABOVE GRADE AS REQUIRED BY THE 5TH EDITION (2014) FLORIDA BUILDING CODE.
- 4) A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF FIXED GLAZING LITES MORE THAN 3 FEET IN WIDTH IN ACCORDANCE WITH THE 5TH EDITION (2014) FLORIDA BUILDING CODE.

PROJECT # 414-0609

REV	DESCRIPTION	DATE	BY
B	REVISED PER MD COMMENTS	9/28/15	RJA
A	UPDATE TO 5TH EDITION (2014) FBC	3/18/15	RJA

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

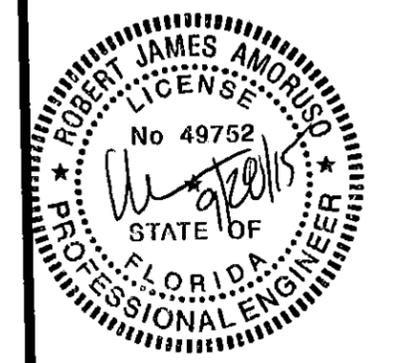
TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT GLAZING DETAILS

DATE:	12/03/12
DRAWN BY:	JBH
SCALE:	N.T.S.
DRAWING NO.:	PELL0031
REV:	B
SHEET:	9 OF 11

PTC PRODUCT DESIGN GROUP, LLC
1000 W. FLORIDA AVE.
LONGWOOD, FLORIDA 32752
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PRODUCT REVISED as complying with the Florida Building Code
Building Code 15-0401.04
Acceptance No. 231412013
Expiration Date 2/3/15
By *Manuel Perez*
Miami/Dade Product Control

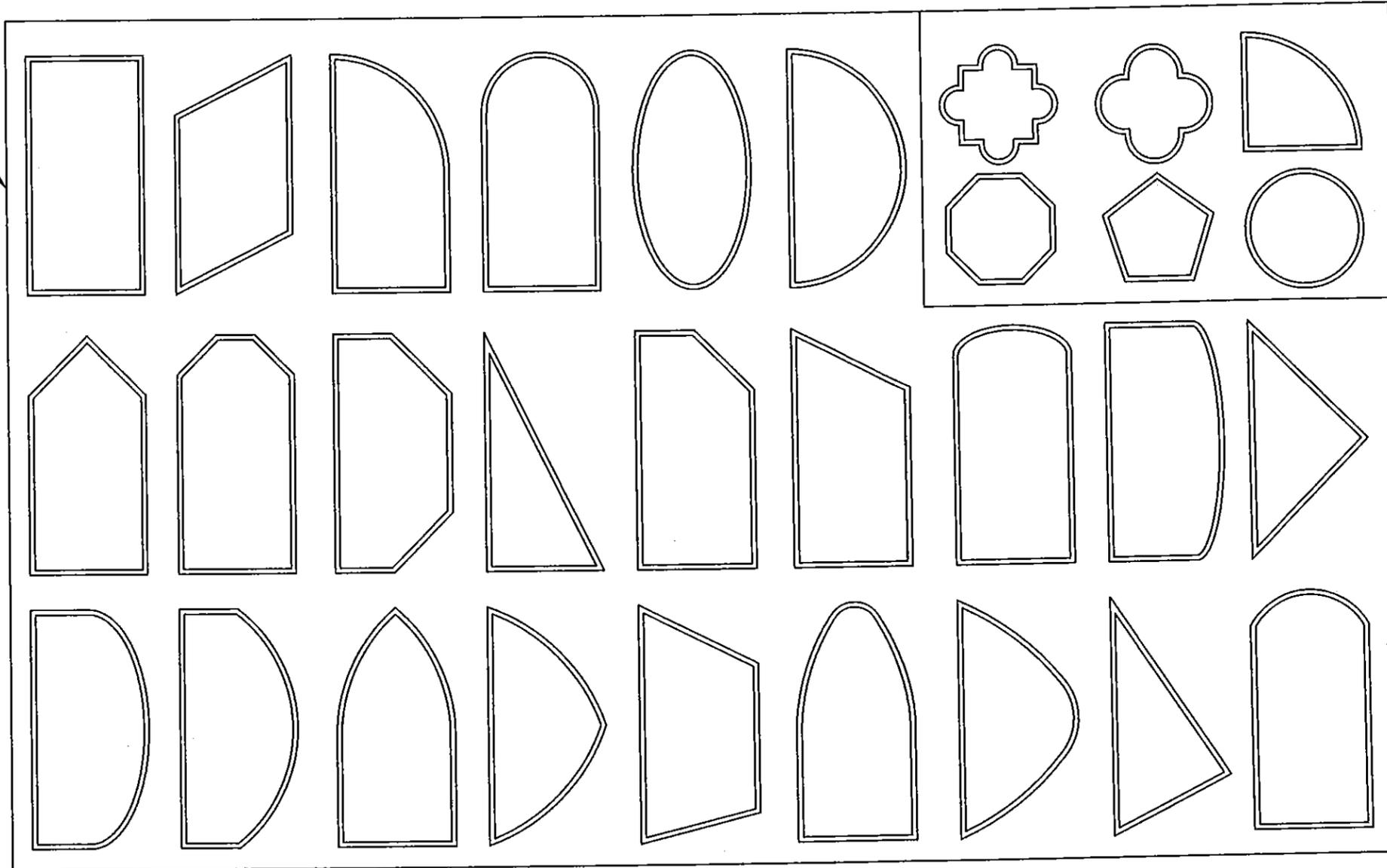
Robert J. Amoruso, P.E.
Florida P.E. No. 49752



RECTANGULAR SHAPED WINDOWS

NON-RECTANGULAR SHAPED WINDOWS

APPROVED GEOMETRIC SHAPES



1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE COMPATIBLE CORNER CONSTRUCTION DETAILS.
2. ALL GEOMETRIC SHAPES WILL HAVE A MAXIMUM SQUARE FOOTGAGE OF 38.8 SF AND WILL NOT EXCEED THE WIDTH AND HEIGHT OF THE TESTED AND APPROVED UNITS SHOWN ON SHEETS 3, 4 AND 5.

PROJECT # 414-0609

REV	DESCRIPTION	DATE	BY
B	REVISED PER MD COMMENTS	9/28/15	RJA
A	UPDATE TO 5TH EDITION (2014) FBC	3/16/15	RJA

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

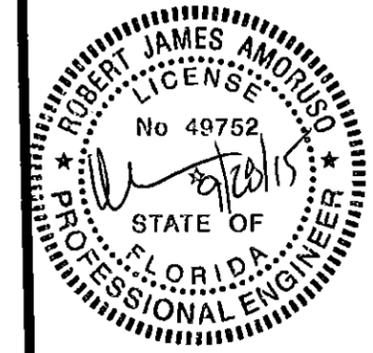
TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT APPROVED GEOMETRIC SHAPES

DATE:	12/03/12
DRAWING NO.:	PELL0031
DRAWN BY:	JBH
SCALE:	N.T.S.
REV:	B
SHEET:	10 OF 11



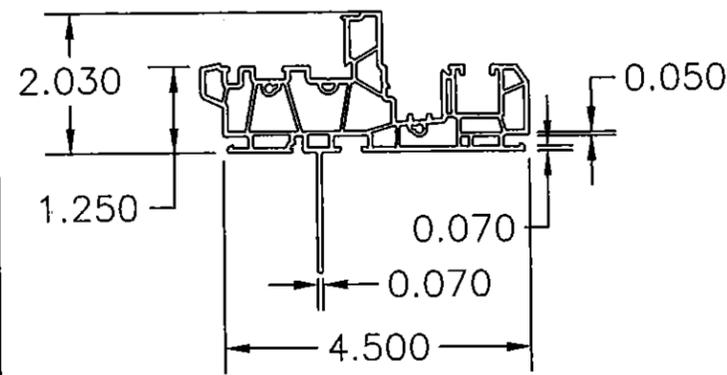
PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. **15-0401.04**
Expiration Date **03/24/2018**
By *Manuel Jesus*
William Dade Product Control

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

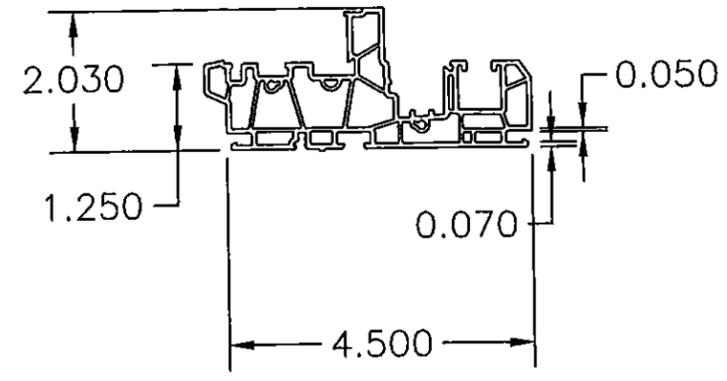


BILL OF MATERIALS		
ITEM NO.	DESCRIPTION	QTY
1	FRAME SILL **	1
2	FRAME HEAD **	1
3	FRAME JAMB, LEFT **	1
4	FRAME JAMB, RIGHT **	1
5	FRAME COVER, WIDTH **	2
6	FRAME COVER, HEIGHT **	2
7	1" LAMINATED IG ASSEMBLY (KURARAY AMERICA, INC. SENTRYGLAS)	1
8	1" FIXED GLAZING BEAD, RAIL, BOTTOM, WITH WEEPS **	1
9	1" FIXED GLAZING BEAD, RAIL, TOP **	1
10	1" FIXED GLAZING BEAD, STILE **	2
11	SETTING BLOCK	8
12	HENKEL SA POLYURETHANE REACTIVE HOTMELT GLAZING COMPOUND	1
13	#8 X 1/2" PAN HEAD TAPPING SCREW	AS REQUIRED
14	9.8 MM (3/8") STAINLESS STEEL SPACER, CARDINAL GLASS	AS REQUIRED

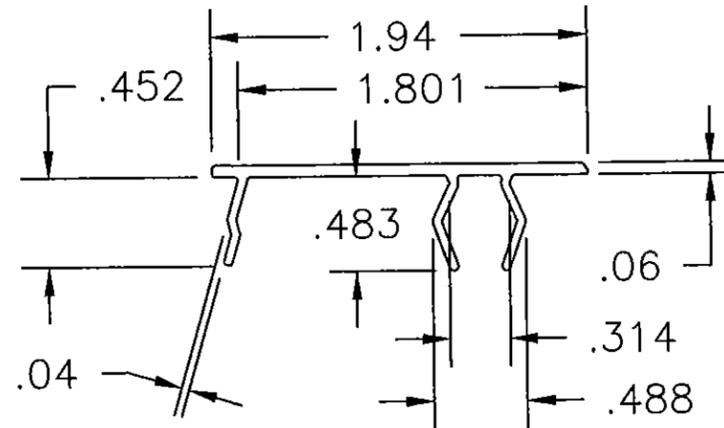
** WINDOW FRAME MATERIAL: VINYL (PVC) PER QUANEX BUILDING PRODUCTS NOA NO. 12-1017.02



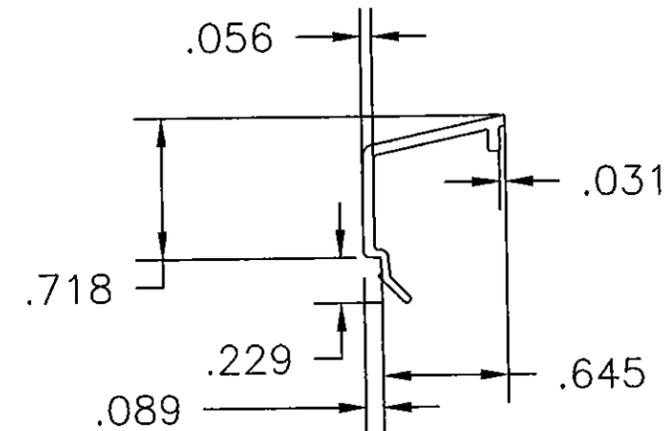
① ② ③ ④
FIN FRAME HEAD, SILL AND JAMBS



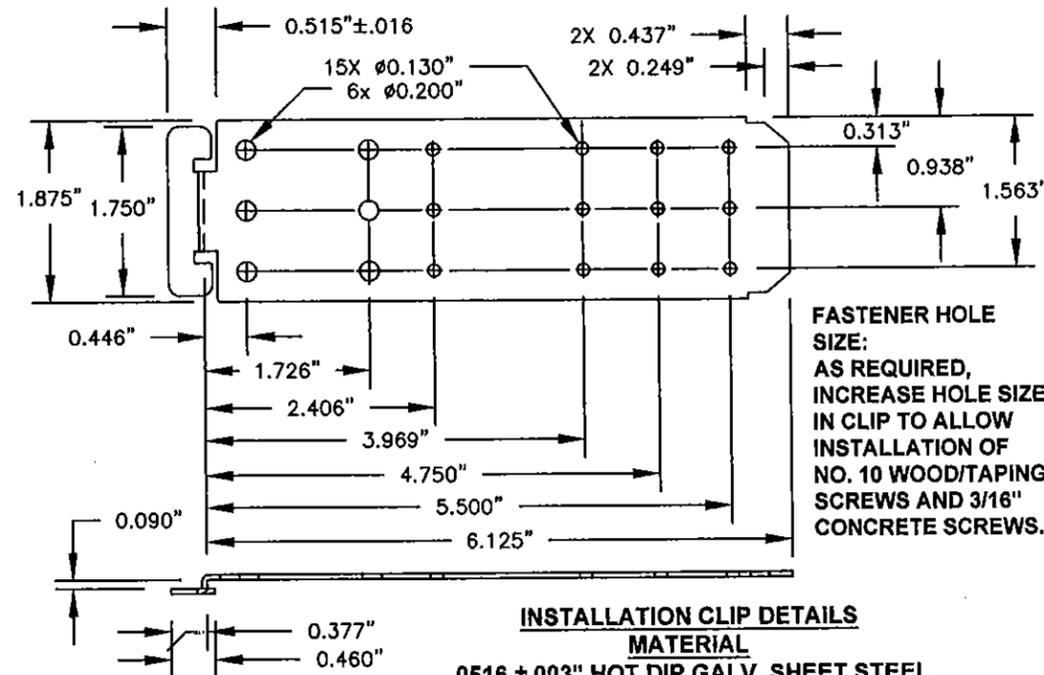
① ② ③ ④
EQUAL LEG FRAME HEAD, SILL AND JAMBS



⑤ ⑦
FRAME COVER

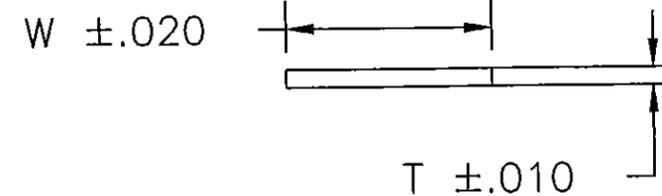


⑧ ⑨ ⑩
1" FIXED GLAZING BEAD



FASTENER HOLE SIZE:
AS REQUIRED,
INCREASE HOLE SIZE
IN CLIP TO ALLOW
INSTALLATION OF
NO. 10 WOOD/TAPING
SCREWS AND 3/16"
CONCRETE SCREWS.

INSTALLATION CLIP DETAILS
MATERIAL
.0516 ± 0.003" HOT DIP GALV. SHEET STEEL
ROCKWELL "B" 65 MAX.
ULTIMATE STRENGTH = 55 KSI MIN.
YIELD STRENGTH = 30 KSI MIN.



⑪ SETTING BLOCK

MATERIAL: PVC
HARDNESS: SHORE A 80-90,
SHORE D 75-87
WIDTH AND THICKNESS VARY

PROJECT # 414-0609

REVISED PER/ID	DATE	DESCRIPTION
B	9/28/15	UPDATE TO 5TH EDITION (2014) FBC
A	3/16/15	

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL FIXED SHAPED WINDOW - IMPACT
BILL OF MATERIAL AND COMPONENT DETAILS

DATE	DATE	DATE	DATE
12/03/12	12/03/12	12/03/12	12/03/12
JBH	JBH	JBH	JBH
N.T.S.	N.T.S.	N.T.S.	N.T.S.
PELL0031	PELL0031	PELL0031	PELL0031
11 OF 11	11 OF 11	11 OF 11	11 OF 11

PRODUCT REVISED
is complying with the Florida
Building Code 15-0401.04
Acceptance No. 0317412018
Expiration Date 03/14/2018
By *Manuel Perez*
Miami Dade Product Control

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

