

PELLA CORPORATION

***SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW***

***INSTALLATION ANCHORAGE DETAILS***

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED AND IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE AND FLORIDA RESIDENTIAL CODE BASED ON TESTING TO THE PERFORMANCE STANDARDS LISTED BELOW AT THE DESIGN PRESSURE(S) STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORTS AND ASSOCIATED LABORATORY STAMPED DRAWINGS AS CERTIFIED BY WDMA AND DOCUMENTED IN THEIR HALLMARK CERTIFICATE OF CONFORMANCE AND LICENSE (CCL).

1.1. AAMA/WDMA/CSA 101/I.S. 2/A440-08

1.2. AAMA/WDMA/CSA 101/I.S. 2/A440-11
2. THIS PRODUCT EVALUATION DOCUMENT IS NOT FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

3. 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.

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 SHALL USE AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS.

6. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.

7. BOUNDING BOX DIMENSIONS FOR GEOMETRIC FIXED WINDOW SHAPES MUST BE EQUAL TO OR LESS THAN RECTANGULAR DIMENSIONS SHOWN HEREIN.

8. WINDOW FRAME MATERIAL: VINYL (PVC)

9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04e1.

10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING (AS APPLICABLE):

10.1. X: OPERABLE LITE, SASH OR PANEL

10.2. O: FIXED LITE, SASH OR PANEL

11. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING AND RESIDENTIAL CODES.

12. THE LEAST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR IN 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.

14. SECTION VIEWS ARE SHOWN WITH ALUMINUM STIFFENER BARS INCLUDED IN THE SASH. EACH STIFFENER BAR MAY OR MAY NOT BE REQUIRED BASED ON UNIT SIZE AND DESIGN PRESSURE.
- 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, 6 AND 7 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.

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 & FLANGE FRAME INSTALLATIONS, SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR

6.2. FOR FIN FRAME INSTALLATIONS, SHIM 1/2" FROM EACH INTERIOR CORNER OF THE WINDOW, BENEATH INTEGRAL MULLION(S), AND 18" O.C. THEREAFTER.

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.  
SEE GENERAL  
NOTE 12 FOR  
ADDITIONAL  
REQUIREMENTS
- | TABLE OF CONTENTS |      |                                                       |
|-------------------|------|-------------------------------------------------------|
| SHEET             | REV. | SHEET DESCRIPTION                                     |
| 1                 | ---  | GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS |
| 2                 | ---  | ANCHOR SCHEDULES AND DP CHART                         |
| 3 - 4             | ---  | ELEVATIONS & ANCHOR LAYOUTS                           |
| 5 - 7             | ---  | INSTALLATION CROSS SECTIONS                           |
| 8                 | ---  | BILL OF MATERIALS                                     |
- PROJECT # 417-0804

PELLA CORPORATION

102 MAIN STREET

PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW

GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

PREPARED BY:

DATE: 06/13/11

DRAWING NO: PELL0004

SHEET: 1 OF 8

DRAWN BY: TJH

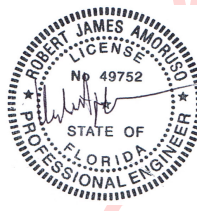
SCALE: N.T.S.

REV: B



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| INSTALLATION ANCHOR SCHEDULE                                           |                    |               |                                                          |                                     |                                                                |                        |                                                         |
|------------------------------------------------------------------------|--------------------|---------------|----------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|------------------------|---------------------------------------------------------|
| WINDOW FRAME TYPE                                                      | FASTENER HEAD TYPE | FASTENER SIZE | SUBSTRATE                                                | MANUFACTURER AND/OR SPECIFICATION   | EMBEDMENT (IN) (2)                                             | EDGE DISTANCE (IN) (2) | ANCHOR CAPACITIES BASED ON                              |
| NAILING FIN                                                            | ROOFING NAIL       | 11 GAUGE      | WOOD                                                     | 11 GAUGE ROOFING NAIL x 1-1/2" LONG | approximately 1-1/2"                                           | 3/8"                   | WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42            |
| FLANGE FRAME AND BLOCK FRAME USING THROUGH FRAME ANCHOR OR CLIP ANCHOR | FLAT 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                                  |
|                                                                        |                    |               |                                                          | ELCO CRETE-FLEX SS4                 | 2"                                                             | 1-7/8"                 | MIN. 2500 PSI CONCRETE                                  |
|                                                                        |                    |               |                                                          | HILTI KWIK-CON II                   | 1-1/2"                                                         | 1-1/8"                 | MIN. 2000 PSI CONCRETE                                  |
|                                                                        |                    |               | MASONRY (BLOCK/CMU)                                      | ITW TAPCONS (1)                     | 1"                                                             | 2"                     | STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT        |
|                                                                        |                    |               |                                                          | ELCO ULTRACONS                      | 1-1/4"                                                         | 1"                     |                                                         |
|                                                                        |                    |               |                                                          | ELCO CRETE-FLEX SS4                 | 1-1/4"                                                         | 1-7/8"                 |                                                         |
|                                                                        | FLAT OR PAN HEAD   | NO. 10        | WOOD                                                     | ANSI B18.6.1 (WOOD SCREW) (2)       | 1-1/2"                                                         | 1"                     | WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42            |
|                                                                        |                    |               |                                                          | ASME B18.6.4 (TAPPING SCREW) (2)    |                                                                |                        |                                                         |
|                                                                        |                    |               | 20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS | ASME B18.6.4 (TAPPING SCREW) (2)    | FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY | 1"                     | ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER |
|                                                                        |                    |               | 1/8" MIN. THK. STEEL                                     | ASME B18.6.4 (TAPPING SCREW) (2)    |                                                                | 1"                     | ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER  |
|                                                                        |                    |               | 0.060" MIN. THK. ALUMINUM                                | ASME B18.6.4 (TAPPING SCREW) (2)    |                                                                | 1"                     | 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 IF SPLITTING IS A CONCERN, DRILL 7/64" PILOT HOLE FOR FLANGE/BLOCK FRAME INSTALLATION OR 3/32" PILOT HOLE FOR NAILING FIN INSTALLATION.

NOTES:

1. **INSTALLATION ANCHOR SCHEDULE** TABLE LISTS APPROVED ANCHOR SPECIFICATIONS BASED ON THE WINDOW FRAME TYPE AND SUBSTRATE.
2. **4-1/2" FRAME - NAILING FIN & BLOCK/FLANGE FRAME INSTALLATION - SINGLE CONFIGURATION** TABLE LISTS THE FOLLOWING INFORMATION.

2.1. REQUIRED ANCHOR TYPE BASED ON SUBSTRATE.

2.2. END DISTANCE (ED) OF ANCHORS AT FRAME ENDS AS DIMENSIONED ON ELEVATION DRAWINGS.

2.3. MAXIMUM O.C. (ON CENTER) SPACING FOR ANCHORS BETWEEN THE FRAME END ANCHORS DIMENSIONED ON ELEVATION DRAWINGS.

2.3.1. QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS.

2.4. MAXIMUM WINDOW SIZES (W x H)

2.5. MAXIMUM DESIGN PRESSURE (DP)
3. **4-1/2" FRAME - NAILING FIN & BLOCK/FLANGE FRAME INSTALLATION - TWIN & TRIPLE CONFIGURATION** TABLE LISTS THE FOLLOWING INFORMATION.

3.1. REQUIRED ANCHOR TYPE BASED ON SUBSTRATE.

3.2. END DISTANCE (ED) OF ANCHORS AT FRAME ENDS AS DIMENSIONED ON ELEVATION DRAWINGS.

3.3. MAXIMUM O.C. (ON CENTER) SPACING FOR ANCHORS BETWEEN THE FRAME END ANCHORS DIMENSIONED ON ELEVATION DRAWINGS.

3.3.1. QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS.

3.4. MAXIMUM WINDOW SIZES (W x H)

3.5. MAXIMUM DESIGN PRESSURE (DP)

3.6. TRANSITION BAR (INTEGRAL MULLION) ANCHOR CLUSTER INCLUDING:

3.6.1. QUANTITY OF CLUSTERED ANCHORS, AND

3.6.2. MINIMUM SPACING OF CLUSTERED ANCHORS.

| 4-1/2" FRAME - NAILING FIN & BLOCK/FLANGE FRAME INSTALLATION - SINGLE  |                                                             |                  |        |          |                        |       |                |       |
|------------------------------------------------------------------------|-------------------------------------------------------------|------------------|--------|----------|------------------------|-------|----------------|-------|
| FRAME CONFIGURATION                                                    | ANCHOR (SEE ANCHOR SCHEDULE)                                | MAX. WINDOW SIZE |        | DP (psf) | END DISTANCE (ED) (in) |       | MAX. O.C. (in) |       |
|                                                                        |                                                             | W (in)           | H (in) |          | HEAD/SILL              | JAMBS | HEAD/SILL      | JAMBS |
| NAILING FIN                                                            | 11 GAUGE ROOFING NAIL                                       | 54               | 99.25  | 60       | 4                      | 4     | 4              | 4     |
|                                                                        |                                                             | 54               | 89     | 60       |                        |       |                |       |
|                                                                        |                                                             | 40               | 63     | 75       |                        |       |                |       |
|                                                                        |                                                             | 40               | 78     | 60       |                        |       |                |       |
| FLANGE FRAME AND BLOCK FRAME USING THROUGH FRAME ANCHOR OR CLIP ANCHOR | NO. 10 WS (ANSI B18.6.1)                                    | 54               | 99.25  | 40       | 6                      | 6     | 19             | 14    |
|                                                                        |                                                             | 54               | 99.25  | 60       |                        |       | 17.5           | 11    |
|                                                                        |                                                             | 54               | 89     | 40       |                        |       | 19             | 14    |
|                                                                        |                                                             | 54               | 89     | 60       |                        |       | 17.5           | 11.5  |
|                                                                        |                                                             | 40               | 63     | 40       |                        |       | 19             | 14    |
|                                                                        |                                                             | 40               | 63     | 60       |                        |       | 19             | 14    |
|                                                                        |                                                             | 40               | 63     | 75       |                        |       | 19             | 12.5  |
|                                                                        |                                                             | 40               | 78     | 40       |                        |       | 19             | 14    |
|                                                                        |                                                             | 40               | 78     | 60       |                        |       | 19             | 14    |
|                                                                        |                                                             | 40               | 78     | 60       |                        |       | 19             | 14    |
|                                                                        | 3/16" CONCRETE SCREW OR NO. 10 TAPPING SCREW (ASME B18.6.4) | 54               | 99.25  | 40       | 6                      | 6     | 19             | 14    |
|                                                                        |                                                             | 54               | 99.25  | 60       |                        |       |                |       |
|                                                                        |                                                             | 54               | 89     | 40       |                        |       |                |       |
|                                                                        |                                                             | 54               | 89     | 60       |                        |       |                |       |
|                                                                        |                                                             | 40               | 63     | 40       |                        |       |                |       |
|                                                                        |                                                             | 40               | 63     | 60       |                        |       |                |       |
|                                                                        |                                                             | 40               | 63     | 75       |                        |       |                |       |
|                                                                        |                                                             | 40               | 78     | 40       |                        |       |                |       |
|                                                                        |                                                             | 40               | 78     | 60       |                        |       |                |       |

| 4-1/2" FRAME - NAILING FIN & BLOCK/FLANGE FRAME INSTALLATION - TWIN & TRIPLE CONFIGURATION |                                     |                  |        |          |                                            |               |                        |       |                |       |
|--------------------------------------------------------------------------------------------|-------------------------------------|------------------|--------|----------|--------------------------------------------|---------------|------------------------|-------|----------------|-------|
| FRAME CONFIGURATION                                                                        | ANCHOR (SEE ANCHOR SCHEDULE)        | MAX. WINDOW SIZE |        | DP (psf) | TRANSITION BAR ANCHOR CLUSTER AT HEAD/SILL |               | END DISTANCE (ED) (in) |       | MAX. O.C. (in) |       |
|                                                                                            |                                     | W (in)           | H (in) |          | Qty.                                       | MIN O.C. (in) | HEAD/SILL              | JAMBS | HEAD/SILL      | JAMBS |
| NAILING FIN                                                                                | 11 GAUGE ROOFING NAIL               | 146              | 78     | 40       | 5                                          | 1             | 4                      | 4     | 4              | 4     |
|                                                                                            |                                     | 146              | 78     | 60       | 7                                          | 1             |                        |       |                |       |
|                                                                                            |                                     | 121              | 78     | 40       | 4                                          | 1             |                        |       |                |       |
|                                                                                            |                                     | 121              | 78     | 60       | 7                                          | 1             |                        |       |                |       |
| FLANGE FRAME AND BLOCK FRAME USING THROUGH FRAME ANCHOR OR CLIP ANCHOR                     | NO. 10 WS (ANSI B18.6.1)            | 146              | 78     | 40       | 5                                          | 1             | 6                      | 6     | 19             | 15    |
|                                                                                            |                                     | 146              | 78     | 60       | 7                                          | 1             |                        |       |                | 13    |
|                                                                                            |                                     | 121              | 78     | 40       | 4                                          | 1             |                        |       |                | 15    |
|                                                                                            |                                     | 121              | 78     | 60       | 6                                          | 1             |                        |       |                | 14.5  |
|                                                                                            | 3/16" CONCRETE SCREW                | 146              | 78     | 40       | 3                                          | 2             | 6                      | 6     | 19             | 15    |
|                                                                                            |                                     | 146              | 78     | 60       | 5                                          | 2             |                        |       |                |       |
|                                                                                            |                                     | 121              | 78     | 40       | 3                                          | 2             |                        |       |                |       |
|                                                                                            |                                     | 121              | 78     | 60       | 4                                          | 2             |                        |       |                |       |
|                                                                                            | NO. 10 TAPPING SCREW (ASME B18.6.4) | 146              | 78     | 40       | 3                                          | 1             | 6                      | 6     | 19             | 15    |
|                                                                                            |                                     | 146              | 78     | 60       | 5                                          | 1             |                        |       |                |       |
|                                                                                            |                                     | 121              | 78     | 40       | 3                                          | 1             |                        |       |                |       |
|                                                                                            |                                     | 121              | 78     | 60       | 4                                          | 1             |                        |       |                |       |

PROJECT # 417-0804

PELLA CORPORATION  
102 MAIN STREET  
PELLA, IA 50219

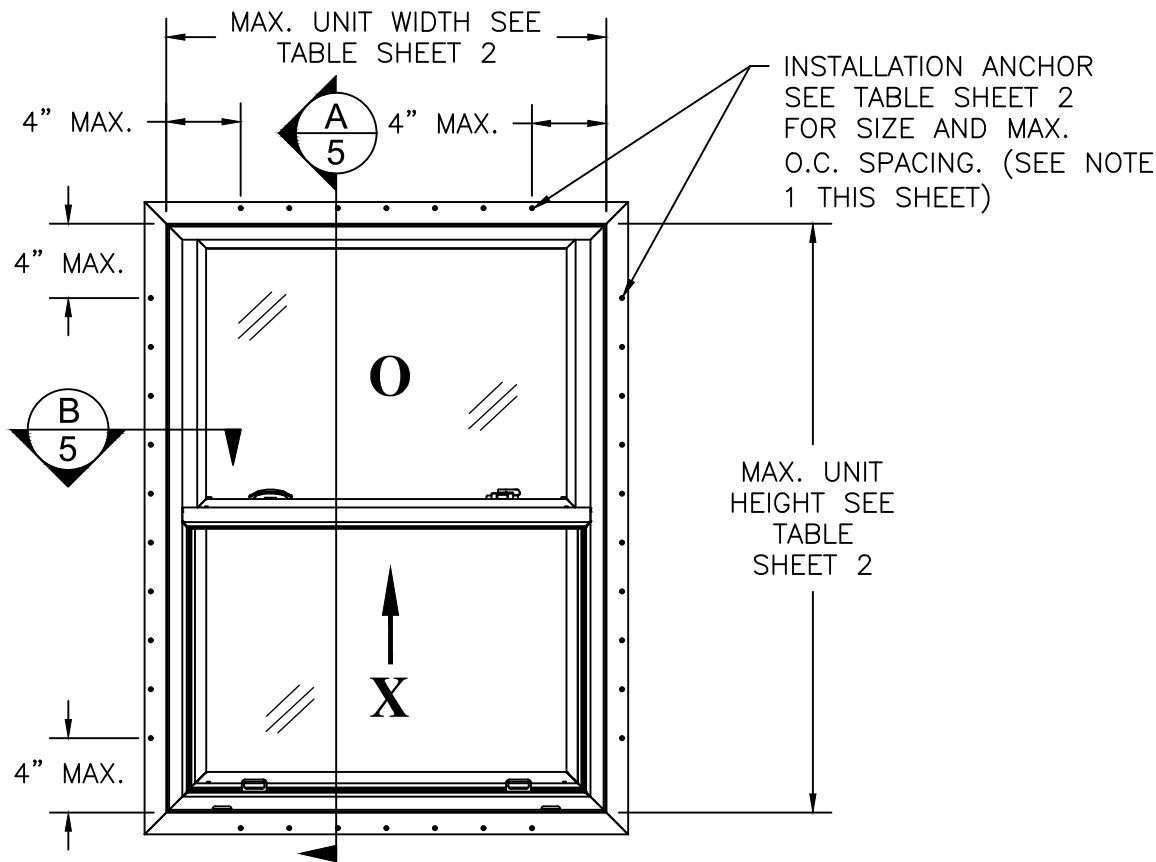
TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW ANCHOR SCHEDULES AND DP CHART

PREPARED BY: TJH  
DATE: 06/13/11  
DRAWING NO: PELL0004  
SHEET: 2 OF 8

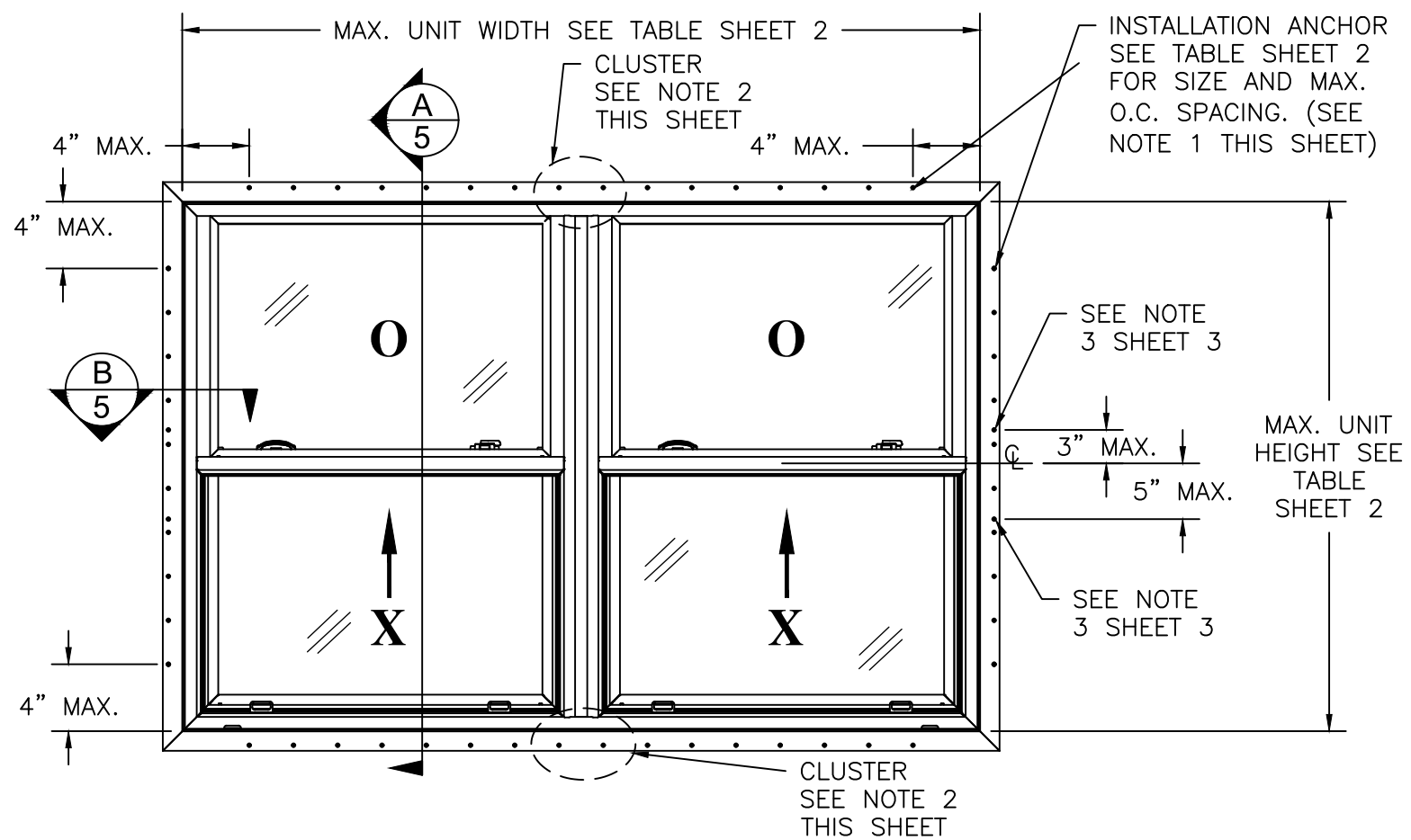
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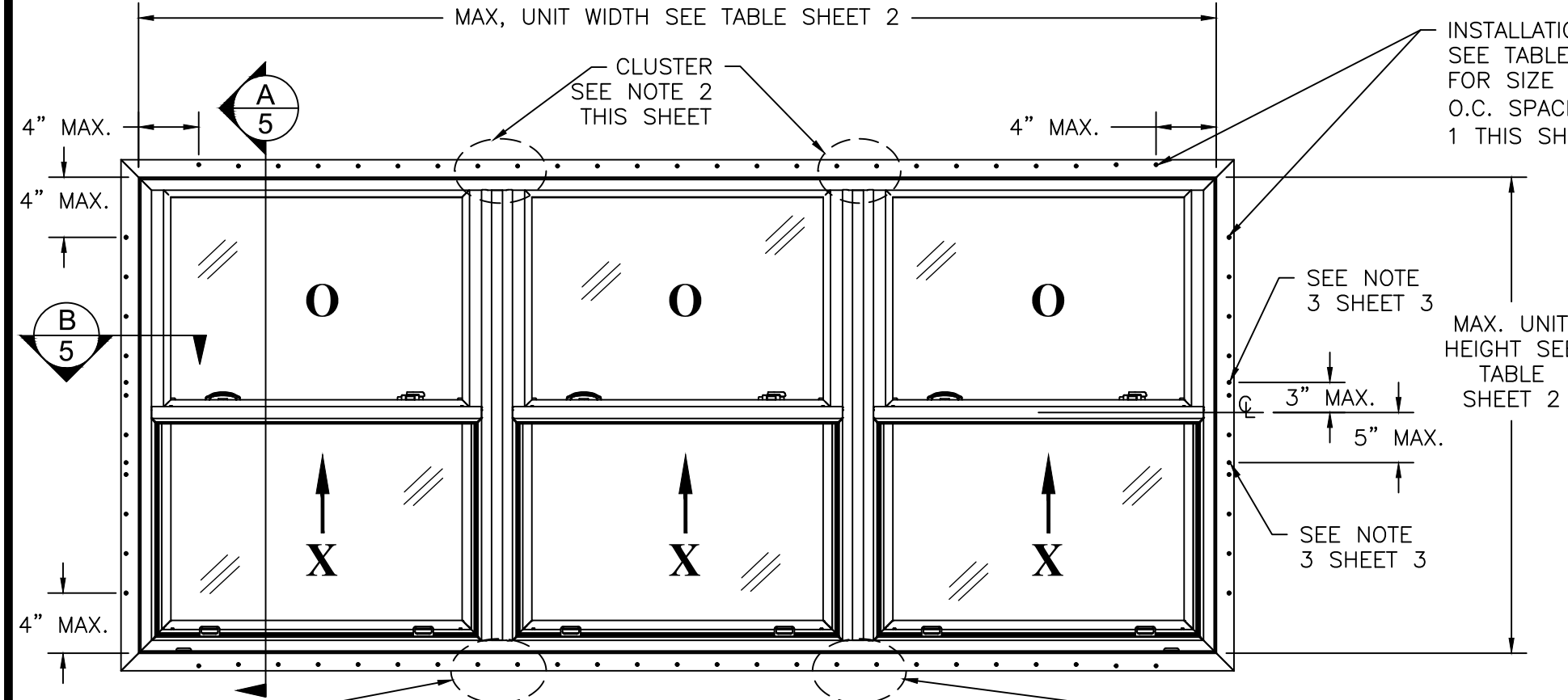
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Date: 2018.09.05 14:59:44 -04'00'



**SERIES 350 SINGLE VINYL SINGLE HUNG WINDOW**  
FIN FRAME EXTERIOR VIEW



**SERIES 350 TWIN VINYL SINGLE HUNG WINDOW**  
FIN FRAME EXTERIOR VIEW



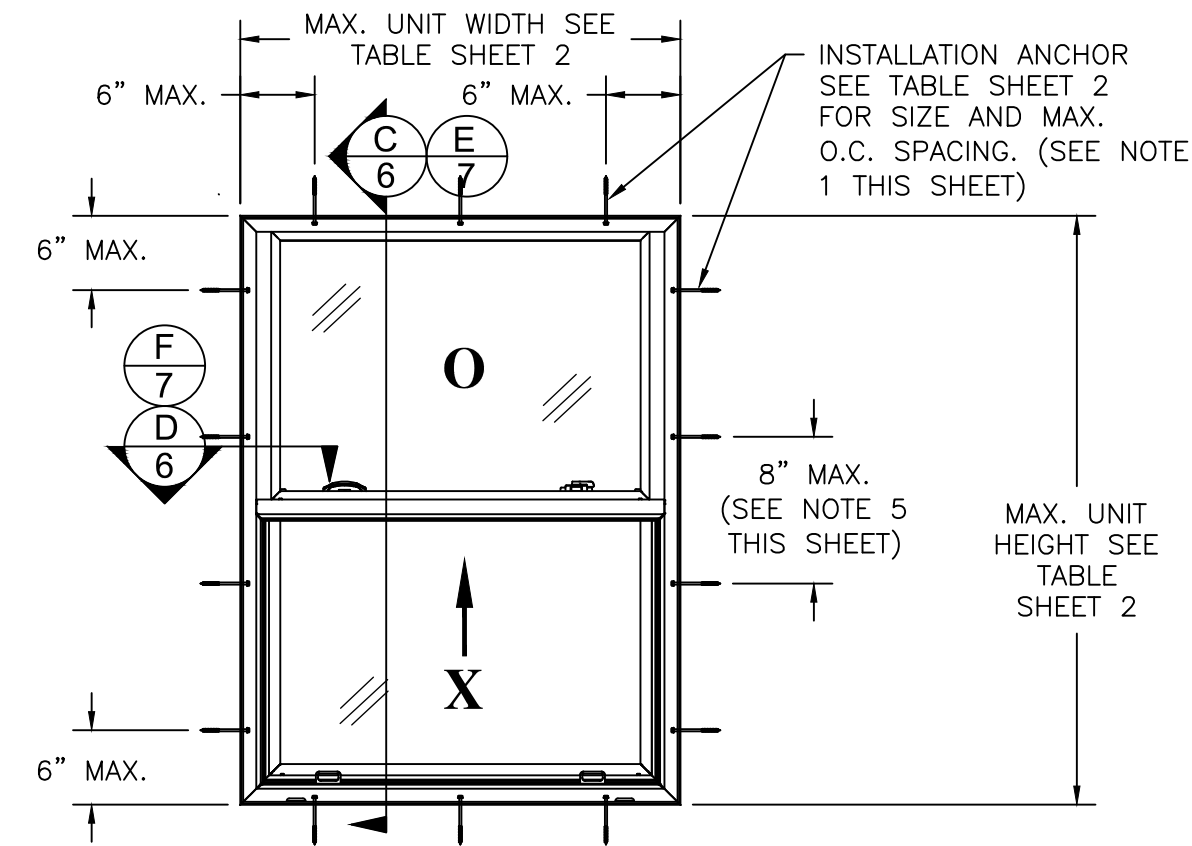
**SERIES 350 TRIPLE VINYL SINGLE HUNG WINDOW**  
FIN FRAME EXTERIOR VIEW  
SEE NOTE 4 SHEET 3

- NOTES:**
1. QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS SHOW ON SHEET 2 TABLES.
  2. SEE SHEET 2 FOR CLUSTERED ANCHOR QUANTITIES AND MINIMUM SPACING. CLUSTERED ANCHORS SHALL BE EVENLY GROUPED ON EACH SIDE OF THE INTERNAL MULLION CENTERLINE WITH SUBSEQUENT SPACING BETWEEN ANCHORS AS INDICATED ON SHEET 2 TABLES.
  3. ALL FRAME SIZES IN THE TWIN AND TRIPLE CONFIGURATION WILL HAVE (1) INSTALLATION ANCHOR 3" ABOVE AND 5" BELOW MEETING RAIL CENTER LINE.
  4. ANY SINGLE HUNG WINDOW IN A TRIPLE CONFIGURATION MAY BE REPLACED WITH A FIXED WINDOW AS QUALIFIED BY TESTING AND CERTIFIED BY THIS PRODUCT APPROVAL DOCUMENT.

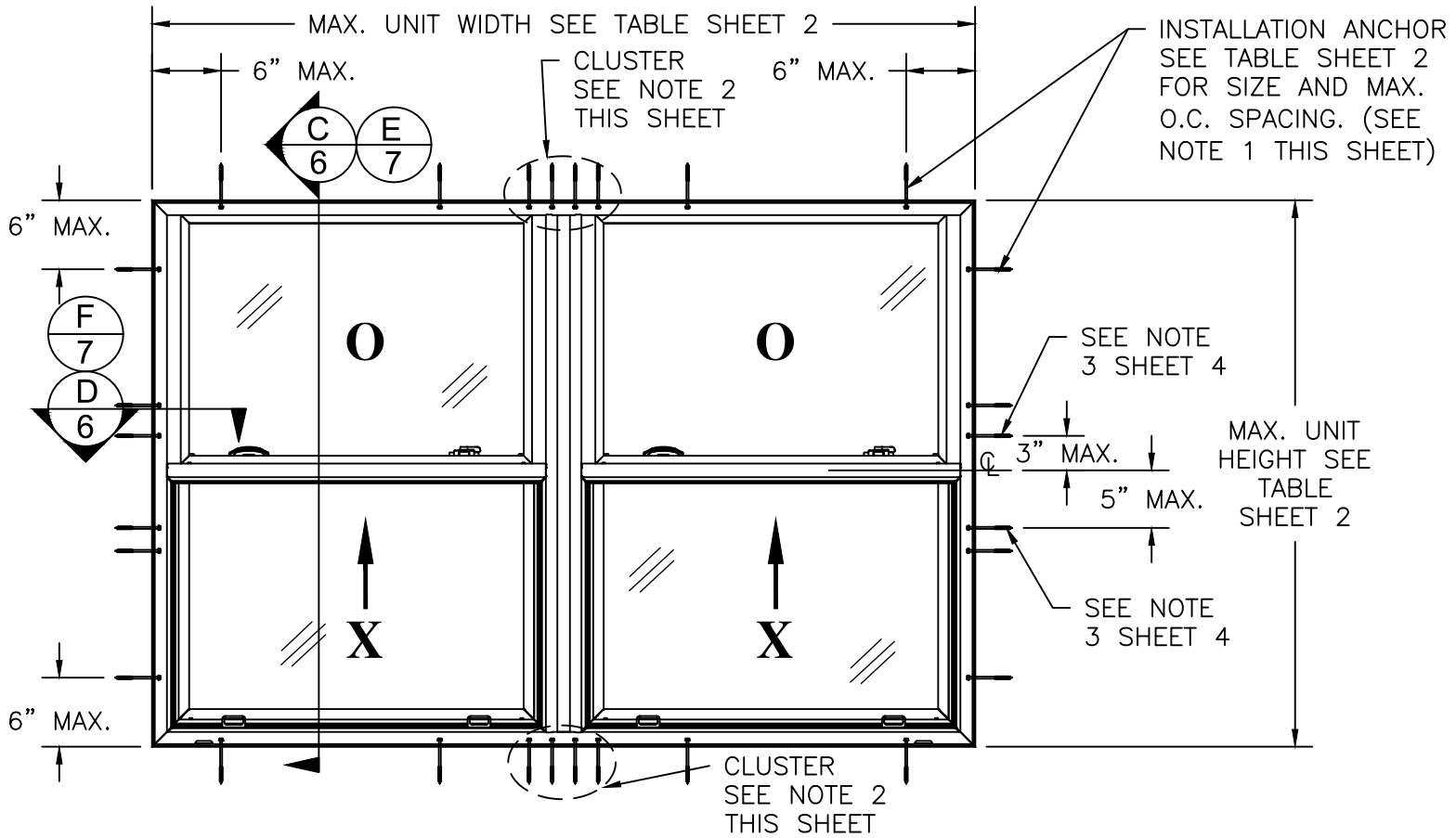
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|--------------------------------------------------------------------------------------------------|--|----------------|-----------------------------------------------|---------------|
| PROJECT # 417-0804                                                                               |  | RJA            | RJA                                           | BY            |
|                                                                                                  |  | 8/27/18        | 1/9/15                                        | DATE          |
| PELLA CORPORATION<br>102 MAIN STREET<br>PELLA, IA 50219                                          |  | GENERAL UPDATE | GENERAL UPDATE<br>REVISED INSTALLATION TABLES | DESCRIPTION   |
| TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW<br>FIN FRAME ELEVATIONS & ANCHOR LAYOUTS       |  | B              | A                                             | REV           |
| PREPARED BY: T.J.H.                                                                              |  | DATE: 06/13/11 | DRAWING NO: PELL0004                          | SHEET: 3 OF 8 |
| SCALE: N.T.S.                                                                                    |  | REV: B         |                                               |               |
| PTC PRODUCT DESIGN GROUP, LLC<br>PO BOX 520775<br>LONGWOOD, FLORIDA 32752<br>FBPE C.A. NO. 25935 |  |                |                                               |               |

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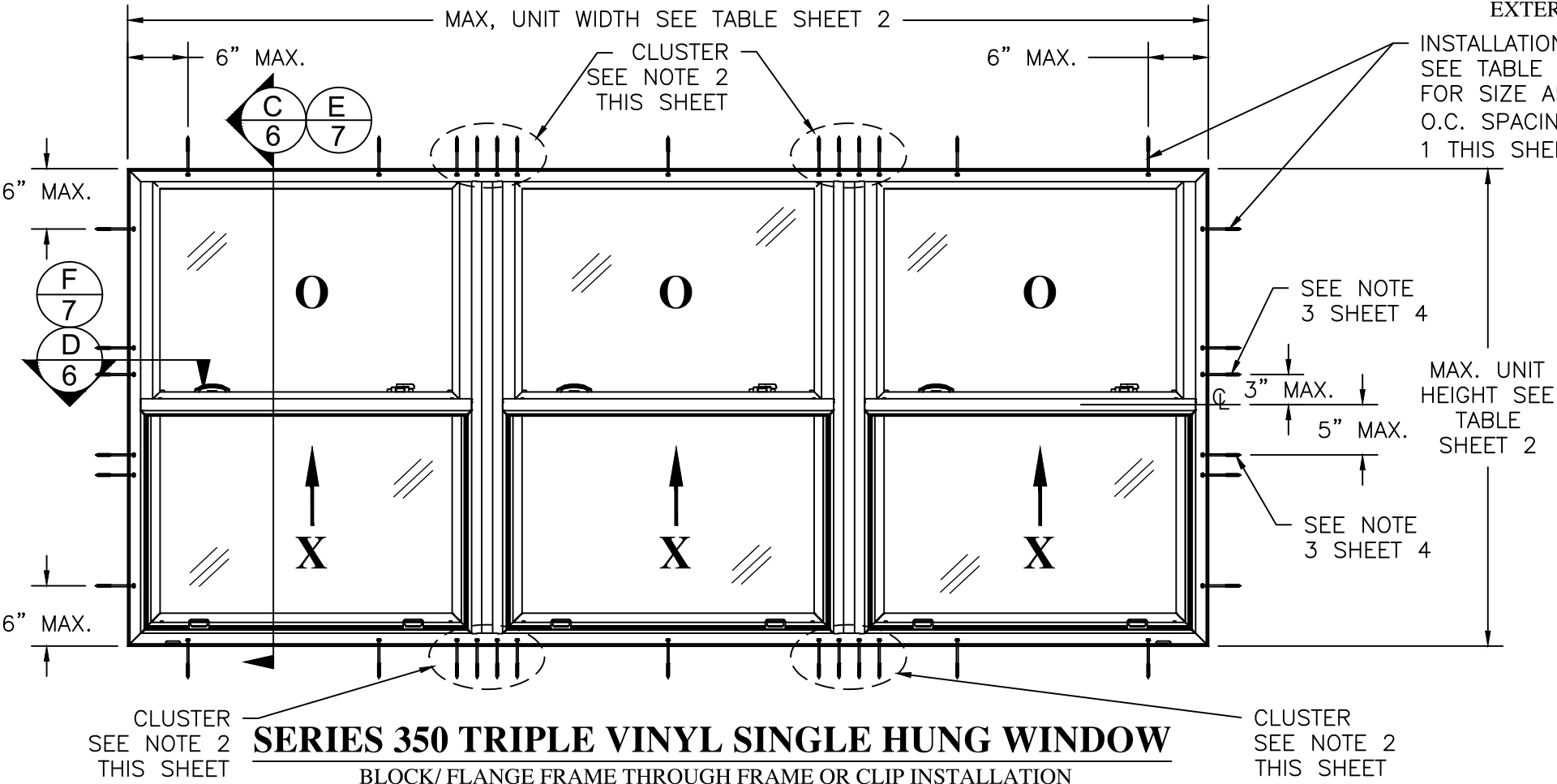
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Date: 2018.09.05  
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**SERIES 350 SINGLE VINYL SINGLE HUNG WINDOW**  
BLOCK/ FLANGE FRAME THROUGH FRAME OR CLIP INSTALLATION  
EXTERIOR VIEW



**SERIES 350 TWIN VINYL SINGLE HUNG WINDOW**  
BLOCK/ FLANGE FRAME THROUGH FRAME OR CLIP INSTALLATION  
EXTERIOR VIEW



**SERIES 350 TRIPLE VINYL SINGLE HUNG WINDOW**  
BLOCK/ FLANGE FRAME THROUGH FRAME OR CLIP INSTALLATION  
EXTERIOR VIEW  
SEE NOTE 4 SHEET 4

- NOTES:
1. QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS SHOW ON SHEET 2 TABLES.
  2. SEE SHEET 2 FOR CLUSTERED ANCHOR QUANTITIES AND MINIMUM SPACING. CLUSTERED ANCHORS SHALL BE EVENLY GROUPED ON EACH SIDE OF THE INTERNAL MULLION AND SPACED 3" FROM THE MULL CENTERLINE. SUBSEQUENT SPACING BETWEEN ANCHORS SHALL BE AS INDICATED ON SHEET 2 TABLES.
  3. ALL FRAME SIZES IN THE TWIN AND TRIPLE CONFIGURATION WILL HAVE (1) INSTALLATION ANCHOR 3" ABOVE AND 5" BELOW MEETING RAIL CENTER LINE.
  4. ANY SINGLE HUNG WINDOW IN A TRIPLE CONFIGURATION MAY BE REPLACED WITH A FIXED WINDOW AS QUALIFIED BY TESTING AND CERTIFIED BY THIS PRODUCT APPROVAL DOCUMENT.
  5. ALL FRAME SIZES IN THE SINGLE CONFIGURATION WILL HAVE (1) INSTALLATION ANCHOR ABOVE AND (1) INSTALLATION ANCHOR BELOW MEETING RAIL SPACED 8" MAXIMUM O.C. ABOUT THE MEETING RAIL CENTER LINE.

PROJECT # 417-0804

|                |                |                             |        |             |
|----------------|----------------|-----------------------------|--------|-------------|
|                |                | RJA                         | RJA    | BY          |
|                | 8/27/18        | 8/27/18                     | 1/9/15 | DATE        |
| GENERAL UPDATE | GENERAL UPDATE | REVISED INSTALLATION TABLES |        | DESCRIPTION |
| B              | A              |                             | REV    |             |

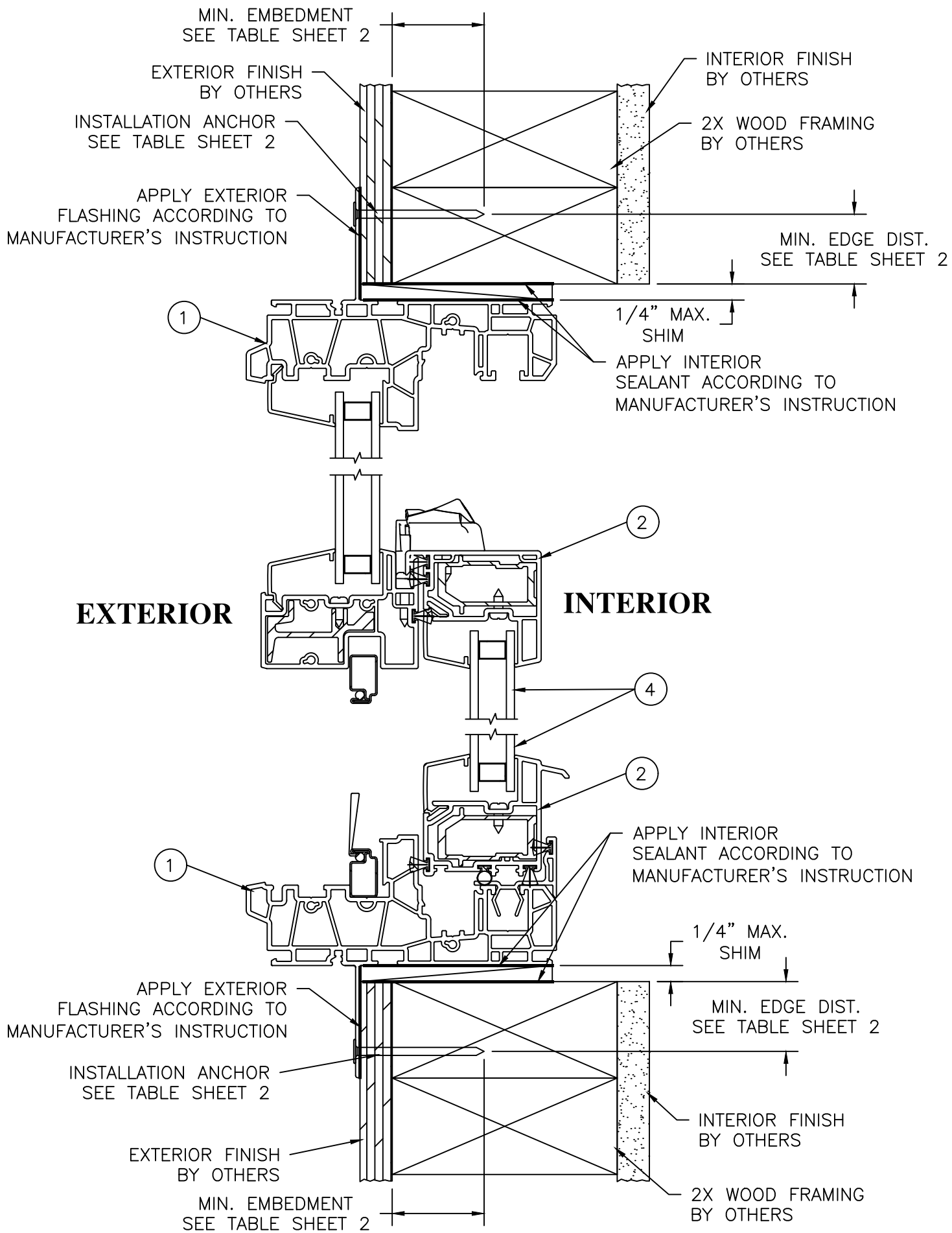
PELLA CORPORATION  
102 MAIN STREET  
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW  
THROUGH FRAME AND CLIP FRAME ELEVATIONS & ANCHORS  
PREPARED BY: T.J.H.  
DATE: 06/13/11  
SCALE: N.T.S.  
DRAWING NO: PELL0004  
SHEET: 4 OF 8  
REV: B

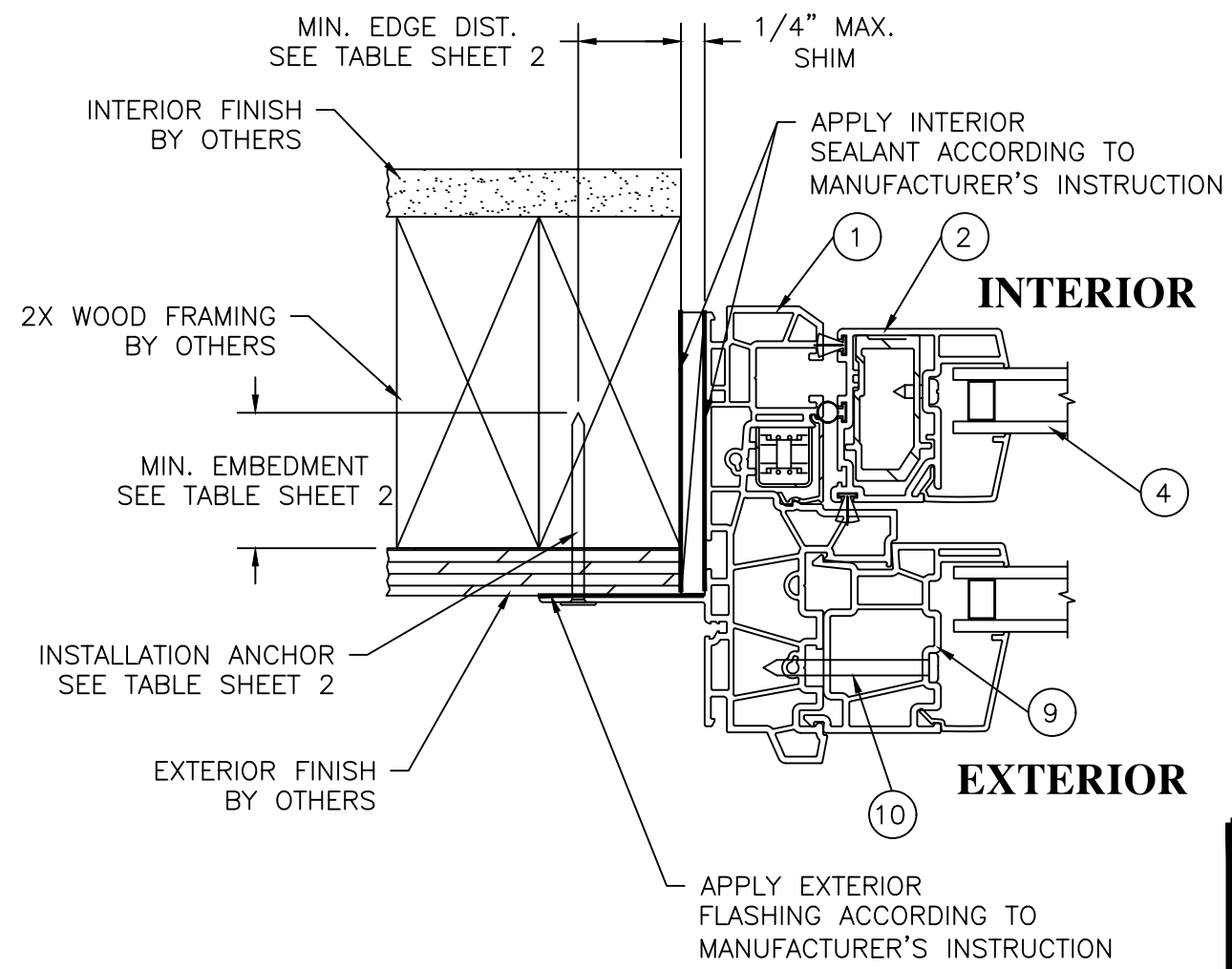
PTC PRODUCT DESIGN GROUP, LLC  
PO BOX 520775  
LONGWOOD, FLORIDA 32752  
Phone: 321.690.1788  
Fax: 321.690.1789  
Email: info@ptc-corp.com

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Florida P.E. No. 49752

Digitally signed by Robert J. Amoruso, P.E.  
Date: 2018.09.05 15:00:21 -04'00'



**A VERTICAL CROSS SECTION**  
5  
FIN INSTALLATION



**B HORIZONTAL CROSS SECTION**  
5  
FIN INSTALLATION

|                    |                                            |  |  |         |      |
|--------------------|--------------------------------------------|--|--|---------|------|
| PROJECT # 417-0804 |                                            |  |  | RJA     | BY   |
|                    |                                            |  |  | 8/27/18 | DATE |
|                    | GENERAL UPDATE                             |  |  | 1/9/15  |      |
|                    | GENERAL UPDATE REVISED INSTALLATION TABLES |  |  |         |      |
|                    |                                            |  |  | REV     |      |

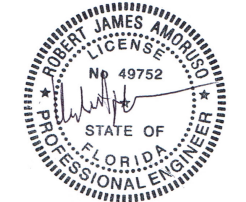
  

|                                                                                      |     |             |          |
|--------------------------------------------------------------------------------------|-----|-------------|----------|
| PELLA CORPORATION<br>102 MAIN STREET<br>PELLA, IA 50219                              |     | DATE:       | 06/13/11 |
| TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW<br>FIN INSTALLATION CROSS SECTIONS |     | DRAWING NO: | PELL0004 |
| PREPARED BY:                                                                         | TJH | SCALE:      | N.T.S.   |
|                                                                                      |     | REV:        | B        |
|                                                                                      |     | SHEET:      | 5 OF 8   |

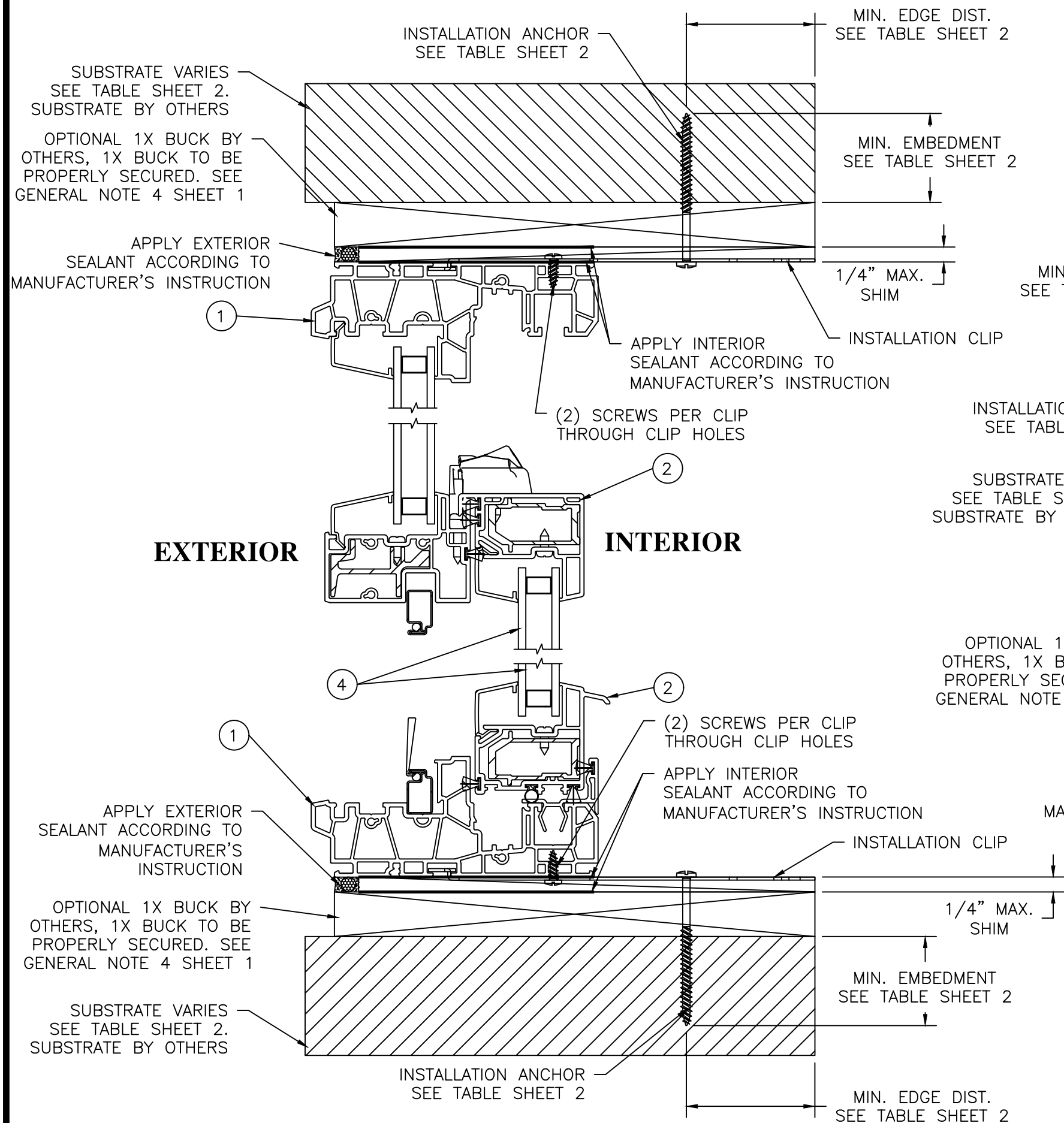
|                                                                                                  |                                                                      |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| PTC PRODUCT DESIGN GROUP, LLC<br>PO BOX 520775<br>LONGWOOD, FLORIDA 32752<br>FBPE C.A. NO. 25935 | Phone: 321.690.1788<br>Fax: 321.690.1789<br>Email: info@ptc-corp.com |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

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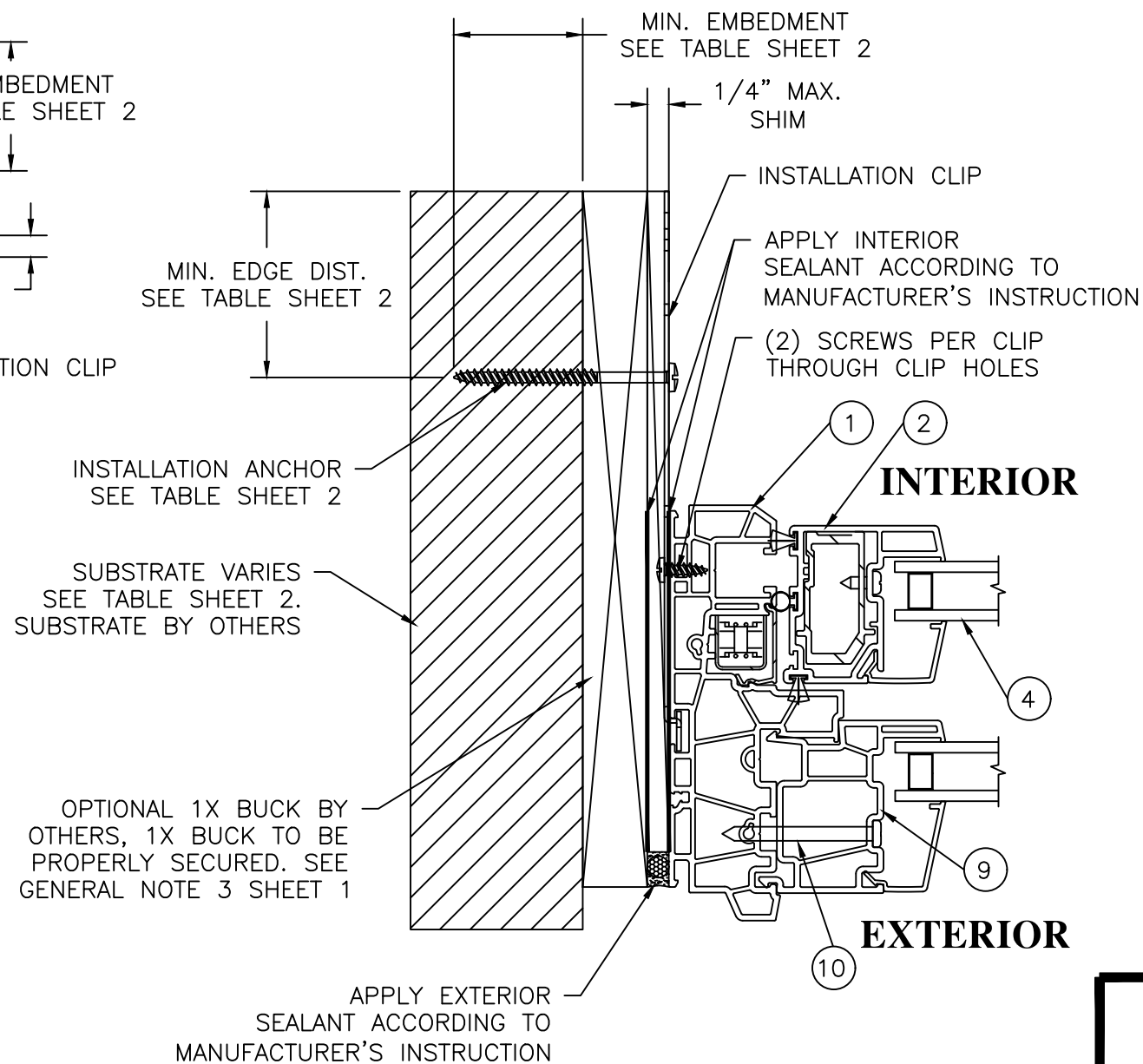


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Date: 2018.09.05  
15:00:33 -04'00'





**E** **VERTICAL CROSS SECTION**  
BLOCK/FLANGE FRAME CLIP INSTALLATION



**F** **HORIZONTAL CROSS SECTION**  
BLOCK/FLANGE FRAME CLIP INSTALLATION

PROJECT # 417-0804

| DATE    | DESCRIPTION                                   | REV | BY  |
|---------|-----------------------------------------------|-----|-----|
| 8/27/18 | GENERAL UPDATE                                | B   | RJA |
| 1/9/15  | GENERAL UPDATE<br>REVISED INSTALLATION TABLES | A   | RJA |

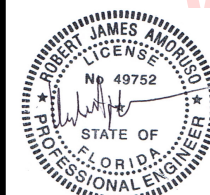
PELLA CORPORATION  
102 MAIN STREET  
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW  
CLIP INSTALLATION CROSS SECTIONS

|             |          |
|-------------|----------|
| DATE:       | 06/13/11 |
| DRAWING NO: | PELL0004 |
| SCALE:      | N.T.S.   |
| REV:        | B        |
| SHEET:      | 7 OF 8   |

PREPARED BY: TJH  
DRAWN BY: TJH  
SCALE: N.T.S.  
REV: B  
SHEET: 7 OF 8

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

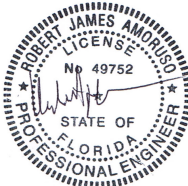


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Robert J.  
Amoruso,  
P.E.  
Date:  
2018.09.05  
15:00:59  
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| BILL OF MATERIALS  |                                                                                                                            |                                                       |         |         |                     |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------|---------|---------------------|
| ITEM NO.           | DESCRIPTION                                                                                                                | QTY                                                   |         |         |                     |
|                    |                                                                                                                            | 1 WIDE                                                | 2 WIDE  | 3 WIDE  | FIXED WITH FLANKERS |
| 1                  | FRAME ASSEMBLY                                                                                                             | 1                                                     | 1       | 1       | 1                   |
| 2                  | LOWER SASH ASSEMBLY                                                                                                        | 1                                                     | 2       | 3       | 2                   |
| 3                  | HALF SCREEN ASSEMBLY                                                                                                       | 1 (OPT)                                               | 2 (OPT) | 3 (OPT) | 2 (OPT)             |
| 4 (SEE NOTE BELOW) | 11/16" IG ASSEMBLY (3MM ANNEALED)                                                                                          | 1 (OPT)                                               | --      | --      | --                  |
|                    | 1" IG ASSEMBLY (5MM ANNEALED)                                                                                              | 1 (OPT)                                               | --      | --      | --                  |
|                    | 1 1/4" TRIPLE IG ASSEMBLY                                                                                                  | --                                                    | 1       | --      | --                  |
| 5                  | 11/16" VENT GLAZING BEAD, RAIL, WITH WEEPS (SHOWN)                                                                         | 1 (OPT)                                               | --      | --      | --                  |
|                    | 1" VENT GLAZING BEAD, RAIL, WITH WEEPS                                                                                     | 1 (OPT)                                               | --      | --      | 1                   |
|                    | 1 1/4" TRIPLE GLAZING BEAD, RAIL WITH WEEPS                                                                                | --                                                    | 1       | --      | --                  |
| 6                  | 11/16" VENT GLAZING BEAD, RAIL (SHOWN)                                                                                     | 1 (OPT)                                               | --      | --      | --                  |
|                    | 1" VENT GLAZING BEAD, RAIL                                                                                                 | 1 (OPT)                                               | --      | --      | 1                   |
|                    | 1 1/4" TRIPLE GLAZING BEAD, RAIL                                                                                           | --                                                    | 1       | --      | --                  |
| 7                  | 11/16" VENT GLAZING BEAD, STILE (SHOWN)                                                                                    | 2 (OPT)                                               | --      | --      | --                  |
|                    | 1" VENT GLAZING BEAD, STILE                                                                                                | 2 (OPT)                                               | --      | --      | 2                   |
|                    | 1 1/4" TRIPLE GLAZING BEAD, STILE                                                                                          | --                                                    | 2       | --      | --                  |
| 8                  | GLAZING SEALANT                                                                                                            |                                                       |         |         |                     |
| 9                  | FILLER BAR                                                                                                                 | 2                                                     | 4       | 6       | 4                   |
| 10                 | FILLER BAR SCREWS #8 X 1-3/4" (SEE NOTE 2)                                                                                 | 8" O.C. (REQUIRED FOR HIGH PERFORMANCE ONLY - NOTE 2) |         |         |                     |
| NOTE:              |                                                                                                                            |                                                       |         |         |                     |
| 1                  | GLASS THICKNESS IS BASED ON PERFORMANCE GRADE RATING AND SIZE OF WINDOW PER ASTM E1300-09a. MINIMUM USED IN TESTING SHOWN. |                                                       |         |         |                     |
| 2                  | HIGH PERFORMANCE DENOTES WINDOWS WITH A DESIGN PRESSURE EXCEEDING +/-40 PSF.                                               |                                                       |         |         |                     |

|                                                         |  |                                                                                      |                                            |                                                                                                                                                   |             |
|---------------------------------------------------------|--|--------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| PROJECT # 417-0804                                      |  |                                                                                      | RJA                                        | RJA                                                                                                                                               | BY          |
|                                                         |  | 8/27/18                                                                              |                                            | 1/9/15                                                                                                                                            | DATE        |
|                                                         |  | GENERAL UPDATE                                                                       | GENERAL UPDATE REVISED INSTALLATION TABLES |                                                                                                                                                   | DESCRIPTION |
|                                                         |  | B                                                                                    | A                                          | REV                                                                                                                                               |             |
| PELLA CORPORATION<br>102 MAIN STREET<br>PELLA, IA 50219 |  | SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW<br>BILL OF MATERIALS                      |                                            | DATE: 06/13/11<br>DRAWING NO: PELL0004<br>SHEET: 6 OF 8                                                                                           |             |
| TITLE:                                                  |  | DRAWN BY: TJH                                                                        | SCALE: N.T.S.                              | REV: B                                                                                                                                            |             |
| PREPARED BY:                                            |  |  |                                            | PTC PRODUCT DESIGN GROUP, LLC<br>PO BOX 520775<br>LONGWOOD, FLORIDA 32752<br>Phone: 321.690.1788<br>Fax: 321.690.1789<br>Email: info@ptc-corp.com |             |

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15:01:11  
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