

GENERAL NOTES:

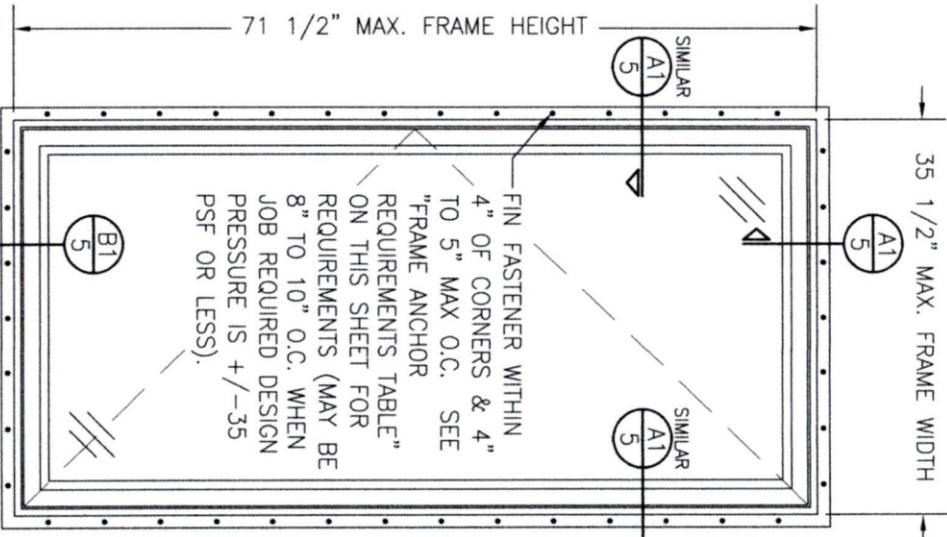
1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. THESE NON-IMPACT RATED PRODUCT INSTALLATIONS ARE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
4. ALL ANCHORS SECURING PRODUCT FRAMES TO THE PRESSURE TREATING CHEMICALS IN THE WOOD CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
5. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
6. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS CERTIFIED & QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. PRODUCT ASSEMBLY IS NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
7. CERTIFICATION OF THESE PRODUCT INSTALLATIONS SHALL BE CONSIDERED VOID IF ANY OF THE FOLLOWING APPLY: 1) PRODUCT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT. 2) PRODUCT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT. 3) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION ENTITY'S CERTIFICATE THAT CAUSE THESE INSTALLATIONS TO BE INCORRECT OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
8. THE LEAST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR IN THE PRODUCT'S CERTIFICATION SHALL CONTROL FOR THE INSTALLED PRODUCT.
9. THESE DRAWINGS CERTIFY THE PRODUCT INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THE EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THE REFERENCED PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE INSTALLATION EVALUATION ENGINEER OF RECORD THAT THE INSTALLATIONS SPECIFIED HERE-IN ARE CURRENT WITH THE THEN CURRENT TESTING, CODE AND APPLICABLE STANDARDS.

FRAME ANCHOR REQUIREMENTS TABLE

| OPENING TYPE (SUBSTRATE) | FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE | MINIMUM EMBED | MINIMUM EDGE DIST. |
|---------------------------------------------------|----------------------------------------------|---------------|--------------------|
| (1) FRAME SCREWS | | | |
| MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 10 SMS OR WOOD SCREW | 1 1/4" | 3/4" |
| MIN. 18 GA. 33 KSI METAL STUD | NO. 10 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| MIN. 1/8" THK A36 STEEL | NO. 10 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| MIN. 1/8" THK 6063-T5 ALUM. | NO. 10 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| MIN. C-90 CMU OR 2500 PSI CONCRETE | (2) 1/4" CONCRETE SCREW | 1 1/4" | 2" |
| (1) INSTALLATION CLIP SCREWS | | | |
| MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 10 SMS SCREW | 1 1/4" | 1/2" |
| MIN. 18 GA. 33 KSI METAL STUD | NO. 10 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| MIN. 1/8" THK A36 STEEL | NO. 10 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| MIN. 1/8" THK 6063-T5 ALUM. | NO. 10 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| 2500 PSI CONCRETE | (2) 1/4" CONCRETE SCREW | 1 1/4" | 2" |
| (3) NAILING FIN FASTENERS | | | |
| MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 8 SMS SCREW | 1 3/8" | 1/2" |
| MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | 11 GA. ROOFING NAIL | 1 3/8" | 1/2" |
| MIN. 1/8" THK A36 STEEL | NO. 8 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| MIN. 1/8" THK 6063-T5 ALUM. | NO. 8 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |

- (1) FRAME AND INSTALLATION CLIP SCREWS SHALL BE A PAN OR HEX HEAD SCREW.
- (2) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).
- (3) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



ALLOWABLE DESIGN PRESSURE (SINGLE WINDOWS)
+/-50 PSF

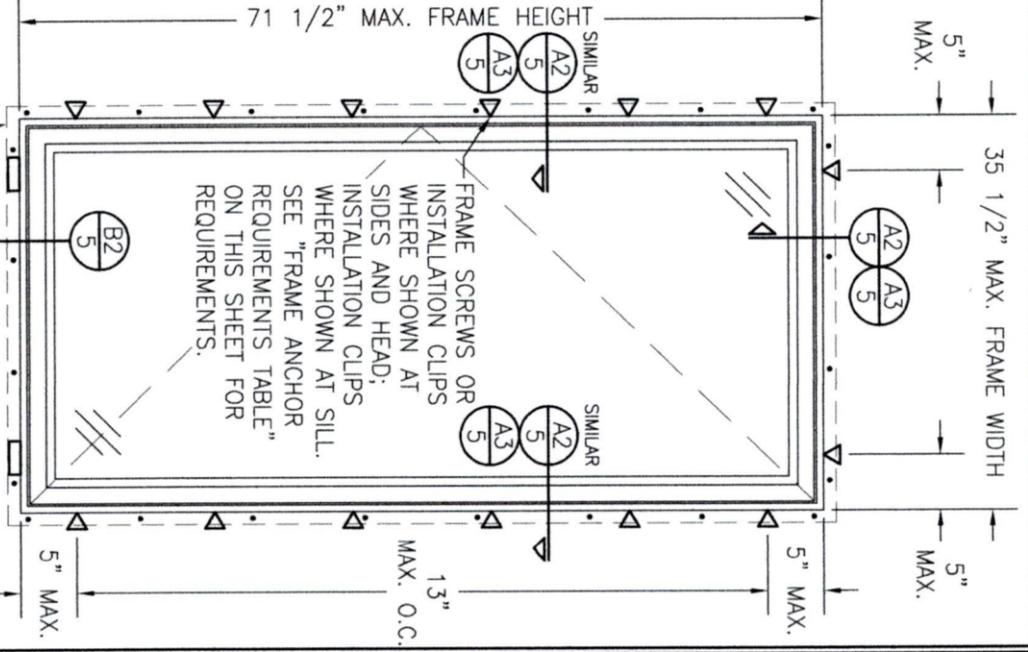
PRESSURE SHOWN IN THIS TABLE IS FOR INSTALLATION CONDITIONS ONLY. THE GOVERNING DESIGN PRESSURE ON THE WINDOWS SHALL BE THE LESSER OF THAT SHOWN IN THE INDIVIDUAL WINDOW'S STATE APPROVAL OR THAT SHOWN IN THIS TABLE.

EXTERIOR ELEVATION: SINGLE WINDOW
SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)

CONDITIONS SHOWN ON THIS DRAWING ARE GOVERNED BY INSTALLATION REQUIREMENTS ONLY. THE GOVERNING CONDITIONS ON ANY SPECIFIC WINDOW SHALL BE THE LESSER OF THOSE SPECIFIED IN THE WINDOWS STATE APPROVAL OR THAT SHOWN IN THESE DRAWINGS.

ALTERNATE ANCHOR/SUBSTRATE EVALUATION NOTE:
ALL ALTERNATE ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE EQUIVALENT TO OR STRONGER THAN THE ANCHOR(S) USED IN TESTING WITH THIS PRODUCT.

INSTALLATION NOTE:
WHEN NECESSARY, INSTALLATION METHODS MAY BE MIXED WITH ANY ONE WINDOW SUCH THAT INDIVIDUAL SIDES OF THE WINDOW MAY USE ONE OR THE OTHER ANCHOR METHOD (EXAMPLE: ONE SIDE MAY USE FRAME SCREW METHOD WHILE OTHER SIDES USE FIN)



EXTERIOR ELEVATION: SINGLE WINDOW
SCALE: 3/4" = 1'-0"
(FRAME SCREW & CLIP MOUNT CONDITION)

NAIL FIN AND ANCHORING OF NAIL FIN IS OPTIONAL & SHALL NOT ACT AS A SUBSTITUTE FOR THE FRAME ANCHORS SPECIFIED. FIN MAY BE REMOVED WHEN REQUIRED BY OPENING CONDITIONS

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

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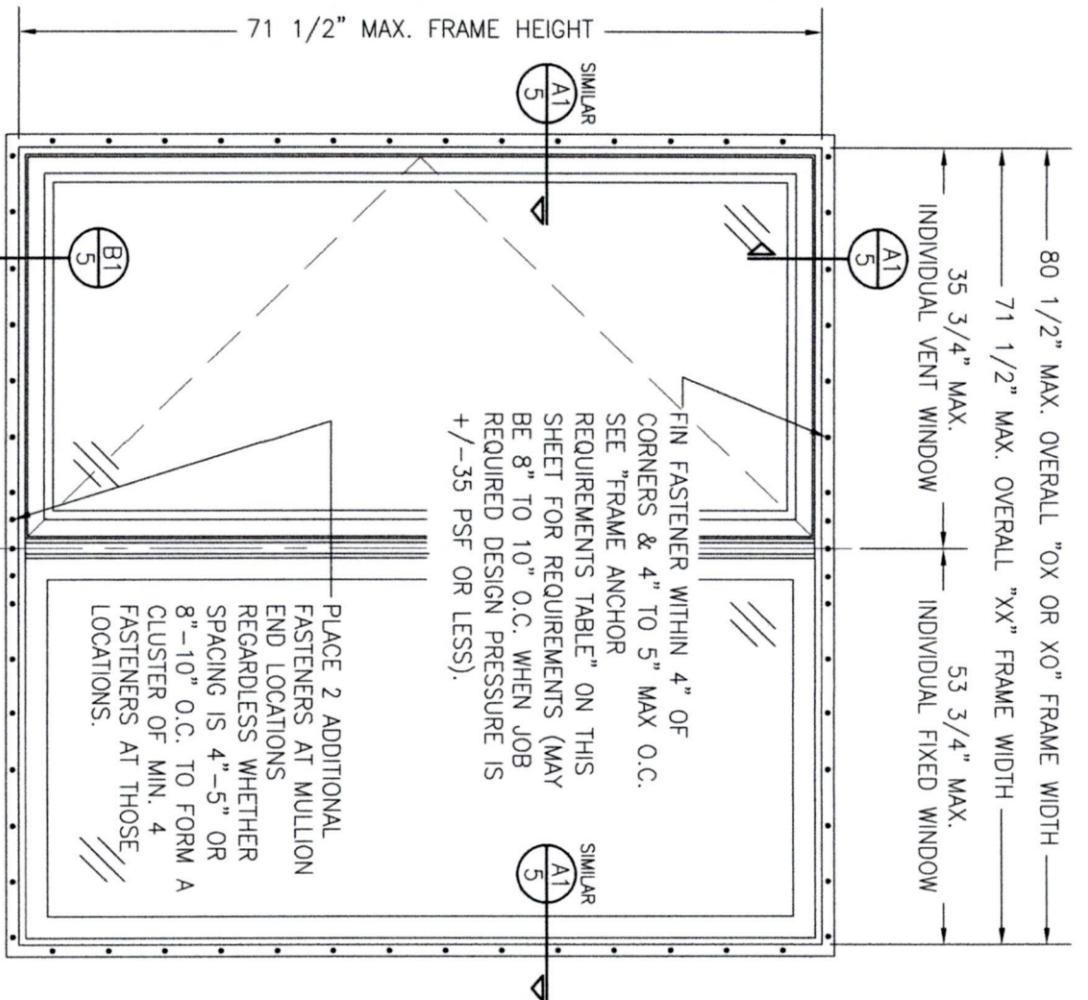
MANUFACTURER
 CUSTOM WINDOW SYSTEMS, INC.
1900 SW 44TH AVENUE
OCALA, FL 34474
352-368-6922

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

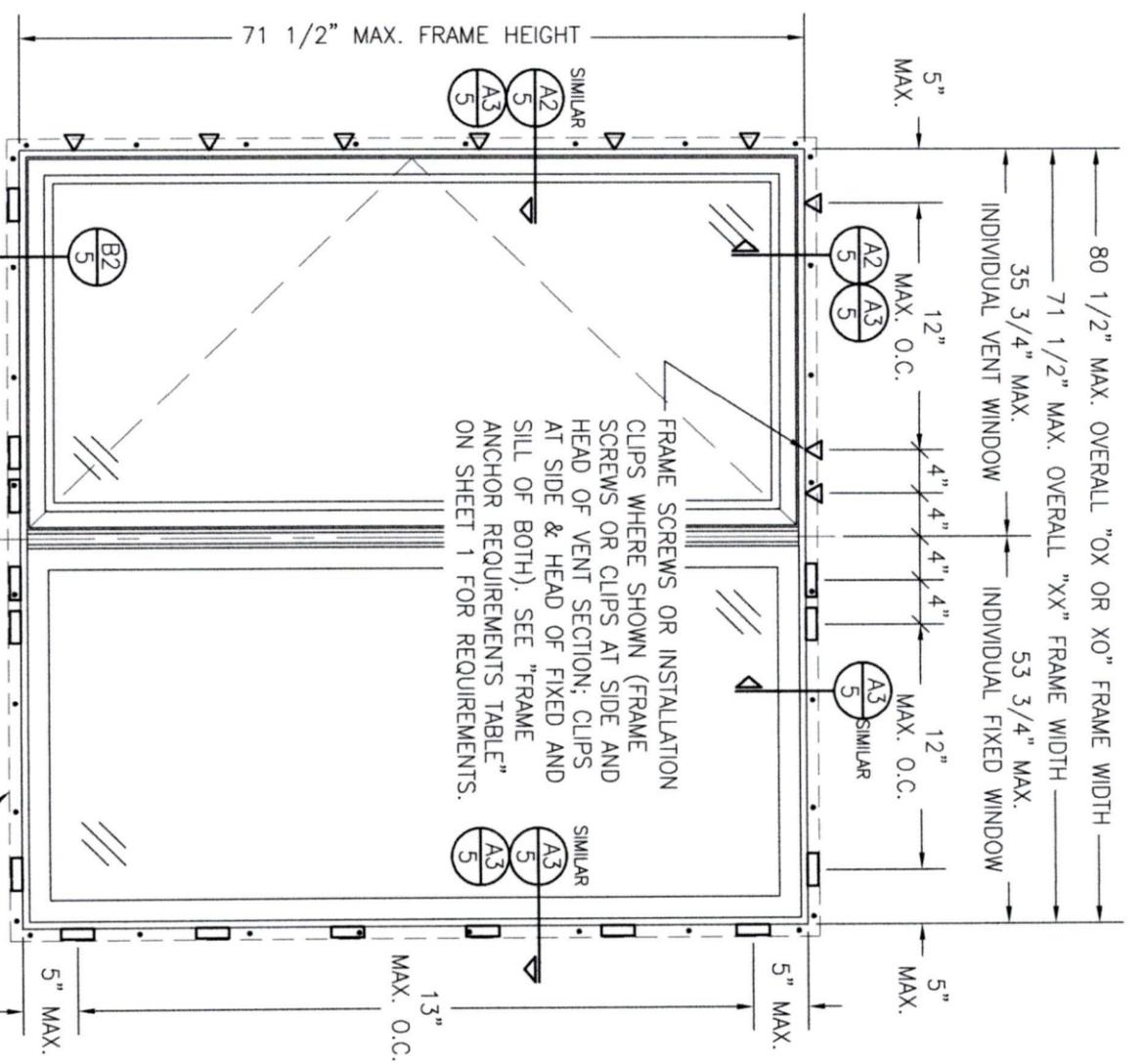
CERTIFICATION
DRAWING NO. **2020**
SHEET NO. **1** OF **6**
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING TITLE
COMFORT SHIELD VINYL NON-IMPACT CASEMENT WINDOWS

DRAWN BY: W.M.S.
CHECKED BY: W.M.S.
DATE: 04/10/23



EXTERIOR ELEVATION:
2-WIDE WINDOW
 SCALE: 3/4" = 1'-0"
 (NAIL FIN MOUNT CONDITION)



EXTERIOR ELEVATION:
2-WIDE WINDOW
 SCALE: 3/4" = 1'-0"
 (FRAME SCREW & CLIP MOUNT CONDITION)

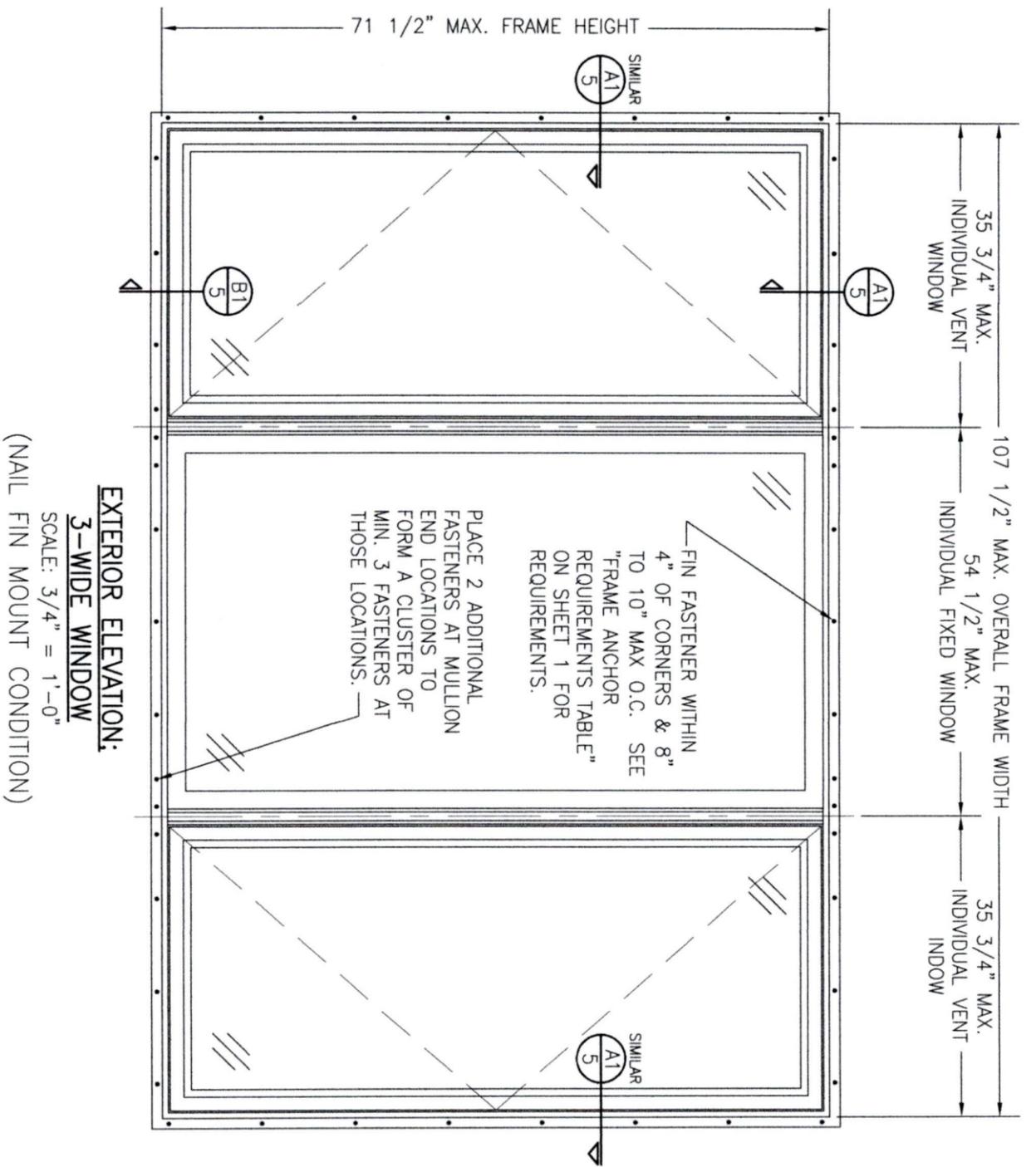
- 2-WIDE UNIT NOTES:**
1. XO CONFIGURATION IS SHOWN, OX & XX ALSO APPLY.
 2. THE WINDOWS WITHIN EACH UNIT MAY BE OF OF EQUAL OR UNEQUAL WIDTH.

| WINDOW CONFIGURATION | ALLOWABLE PRESSURE |
|----------------------|--------------------|
| XX | +/-50 PSF |
| XO & OX | +/-35 PSF |

ALLOWABLE DESIGN PRESSURE (2-WIDE WINDOW UNITS)

PRESSURE SHOWN IN THIS TABLE IS FOR INSTALLATION CONDITIONS ONLY. THE GOVERNING DESIGN PRESSURE ON THE WINDOWS SHALL BE THE LESSER OF THAT SHOWN IN THE INDIVIDUAL WINDOW'S STATE APPROVAL OR THAT SHOWN IN THIS TABLE.

| DRAWING NO. 2020 SHEET NO. 2 OF 6 | CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | DRAWING TITLE COMFORT SHIELD VINYL NON-IMPACT CASEMENT WINDOWS | CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424 | MANUFACTURER  CUSTOM WINDOW SYSTEMS, INC. 1900 SW 44TH AVENUE OCALA, FL 34474 352-368-6922 | DRAWN BY: W.M.S. CHECKED BY: W.M.S. DATE: 04/10/23 | | | | | | | |
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EXTERIOR ELEVATION:
3-WIDE WINDOW
 SCALE: 3/4" = 1'-0"
 (NAIL FIN MOUNT CONDITION)

- 3-WIDE UNIT NOTES:**
1. XOX CONFIGURATION IS SHOWN, ANY COMBINATION OF VENT AND FIXED ALSO APPLIES.
 2. THE WINDOWS WITHIN MAY BE EQUAL OR UNEQUAL WIDTH.
 3. NO SINGLE WINDOW WIDTH NOR THE OVERALL FRAME WIDTH MAY EXCEED THE DIMENSIONS SHOWN.

ALLOWABLE DESIGN PRESSURE
(3-WIDE WINDOW UNITS)
 +/-35 PSF

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 CHECKED BY: W.W.S.
 DATE: 04/10/23
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MANUFACTURER

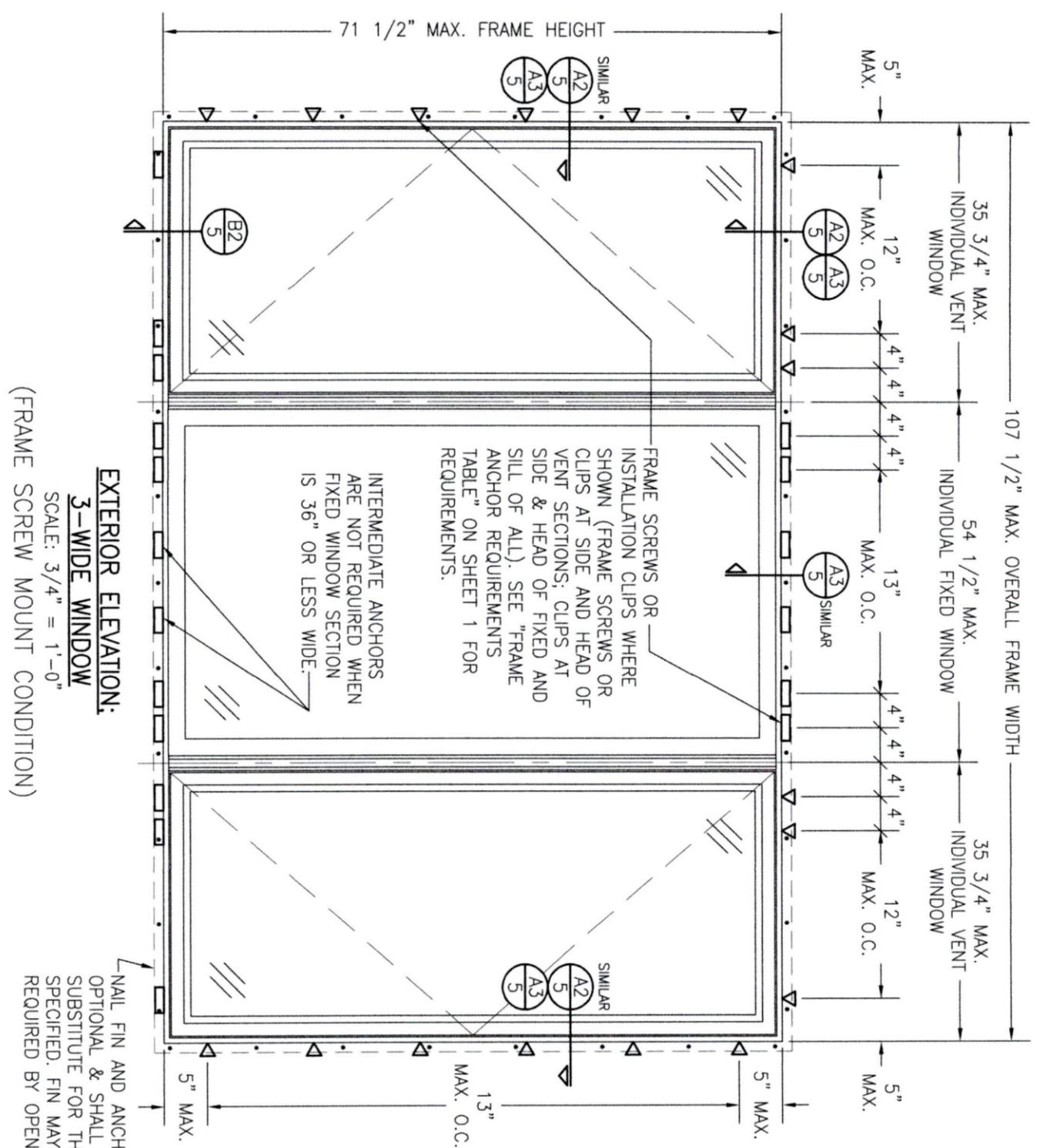
CUSTOM WINDOW SYSTEMS, INC.
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CERTIFICATION
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DRAWING NO.: 2020
SHEET NO.: 3 OF 6



**EXTERIOR ELEVATION:
3-WIDE WINDOW**
SCALE: 3/4" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

NAIL FIN AND ANCHORING OF NAIL FIN IS OPTIONAL & SHALL NOT ACT AS A SUBSTITUTE FOR THE FRAME ANCHORS SPECIFIED. FIN MAY BE REMOVED WHEN REQUIRED BY OPENING CONDITIONS

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**ALLOWABLE DESIGN PRESSURE
(3-WIDE WINDOW UNITS)**
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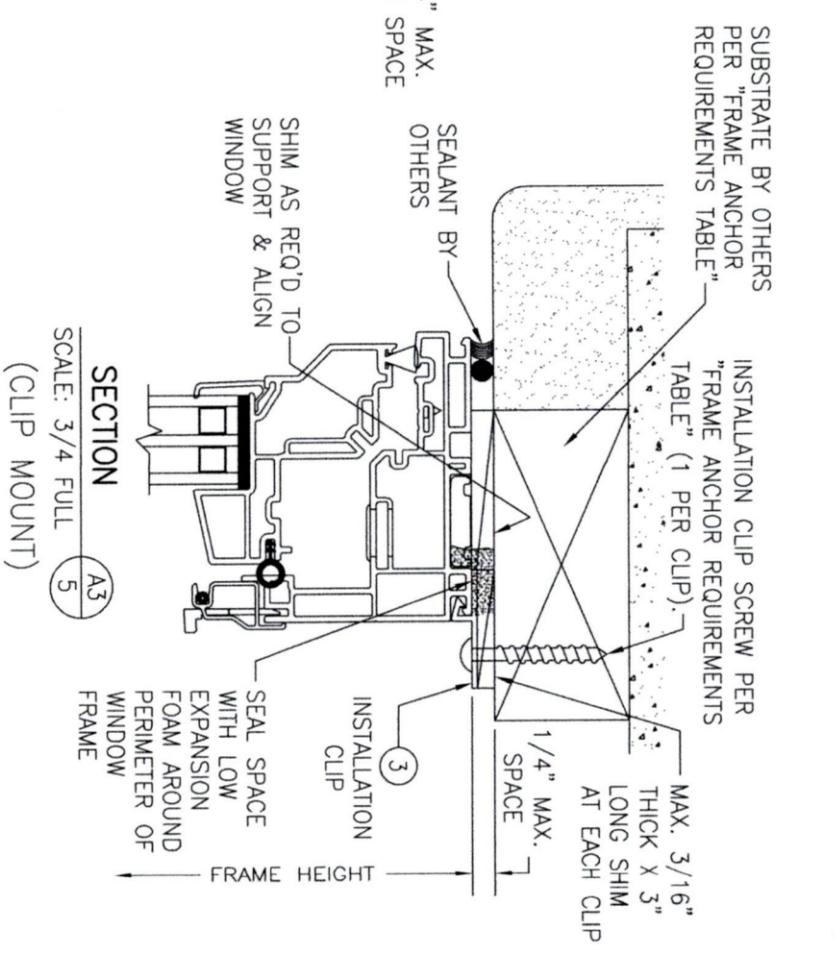
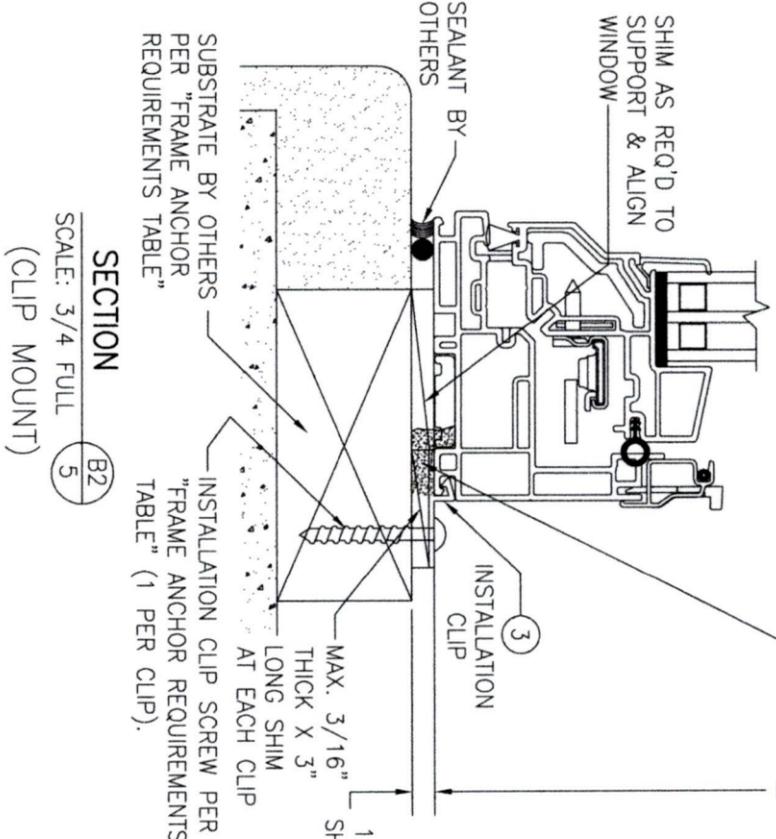
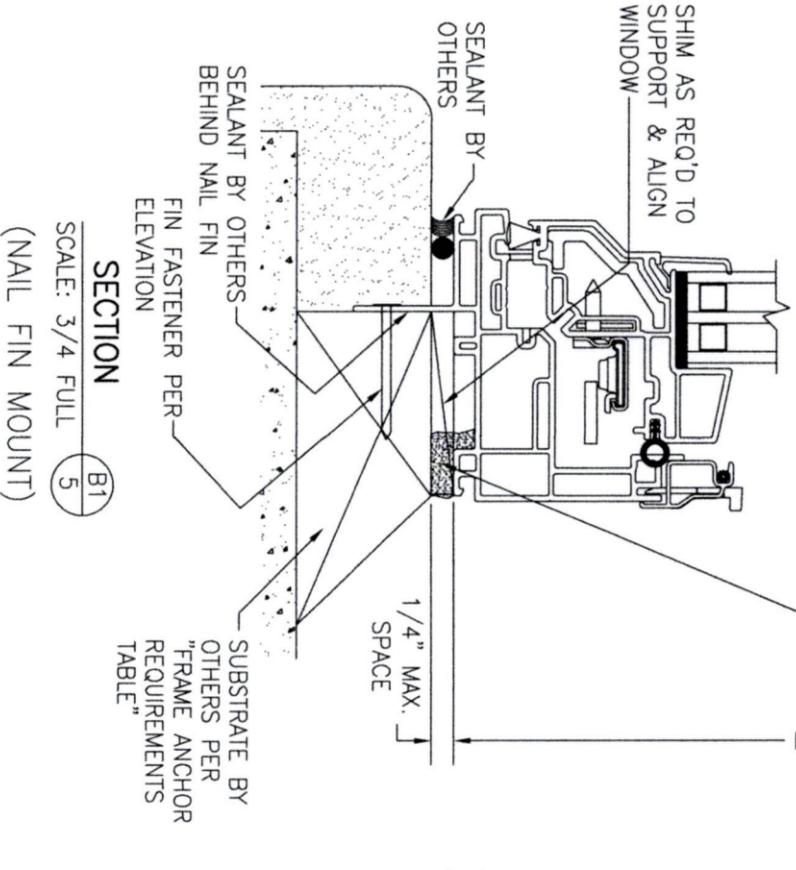
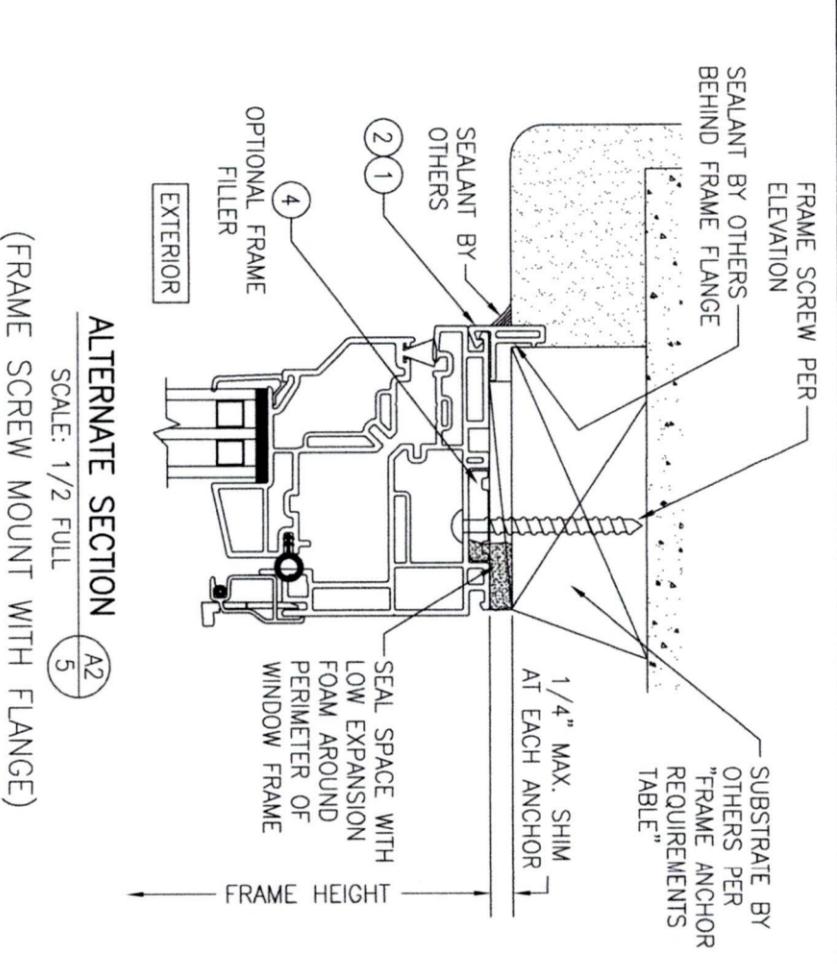
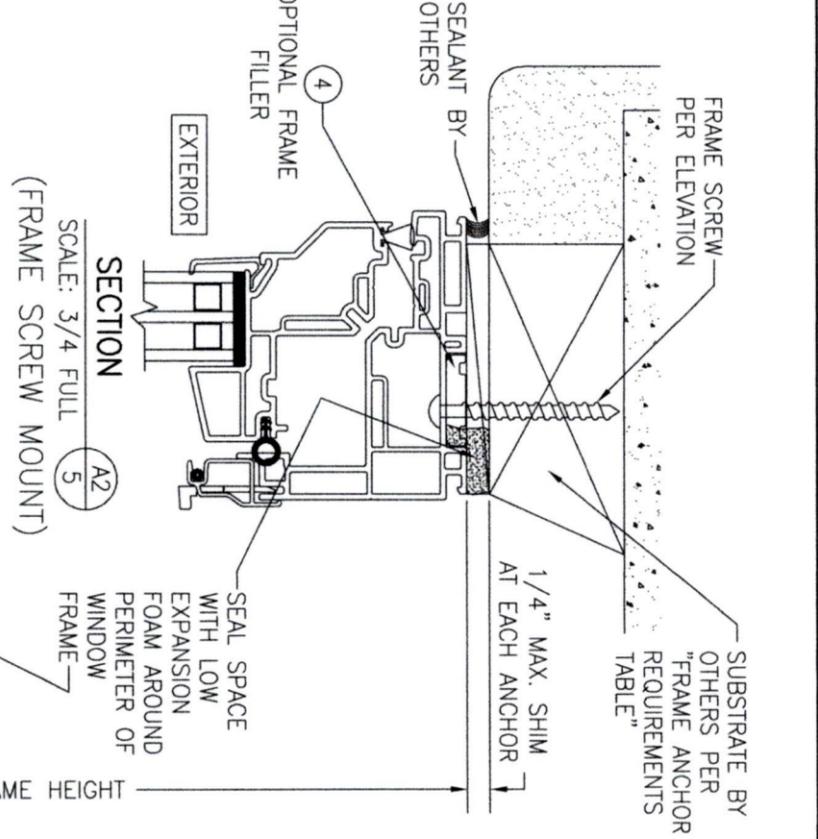
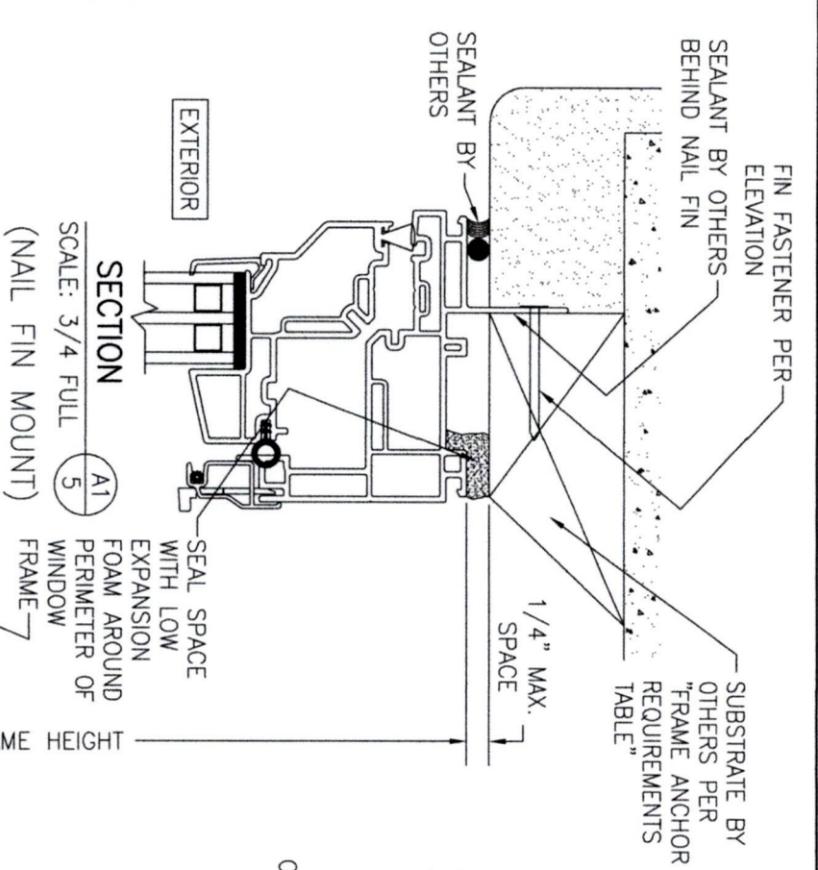
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SHEET NO.
4 OF 6



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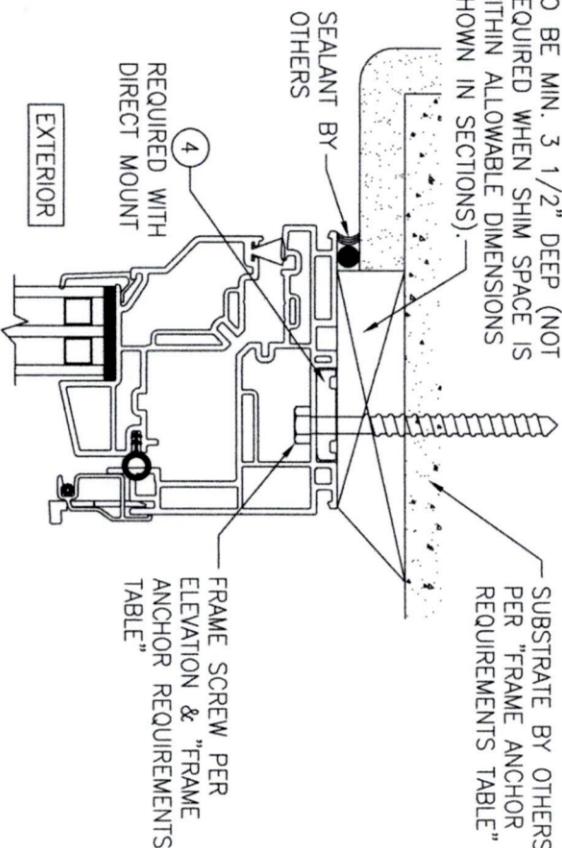
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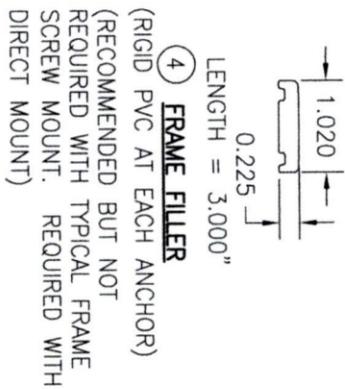
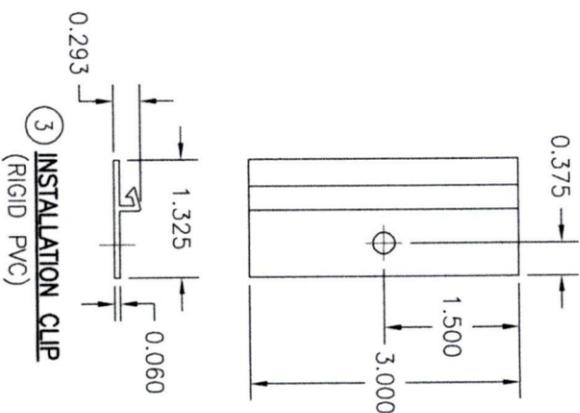
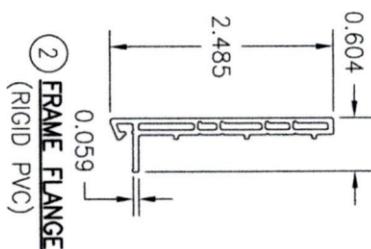
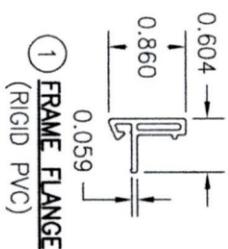
SHEET NO.
 5 OF 6

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN; SIDES & SILL ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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