

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL FRAME ANCHORS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ) & IS LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
9. UNLESS OTHERWISE SPECIFIED HERE-IN, PRODUCT ASSEMBLY AND ALL ASSEMBLY REQUIREMENTS/OPTIONS SHALL BE AS TESTED. ARE THE RESPONSIBILITY OF EACH THE MANUFACTURER AND THEIR APPLICABLE QUALITY ASSURANCE & ARE NOT THE RESPONSIBILITY OF THESE DOCUMENTS NOR THE CERTIFICATION OF THESE DOCUMENTS. IF ANY DIFFERENCES OCCUR BETWEEN AS TESTED DETAILS AND THE DETAILS SHOWN HERE-IN, THE DETAILS SHOWN HERE-IN SHALL CONTROL.
10. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.
11. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/OA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
12. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.
13. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF A DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.
14. CONDITIONS OUTSIDE OF THOSE SHOWN IN THIS DRAWINGS AND/OR THE DOOR APPROVAL SHALL BE SUBJECT TO SEPARATE JOB SPECIFIC ENGINEERING REVIEW AND CERTIFICATION.

ANCHOR/SUBSTRATE EVALUATION NOTE:

ALL ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS IMPOSED ON THEM UNDER THE GUIDELINES OF THIS DOCUMENT. ANY SUBSTRATES OR CONDITIONS OUTSIDE OF WHAT IS SHOWN HERE-IN SHALL BE SUBJECT TO JOB SPECIFIC ENGINEER'S REVIEW & CERTIFICATION.

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: SILL MAY USE FRAME SCREWS METHOD WHILE OTHER SIDES USE CLIPS)

ALLOWABLE DESIGN PRESSURE
(ALL UNITS)

+55/-70 PSF

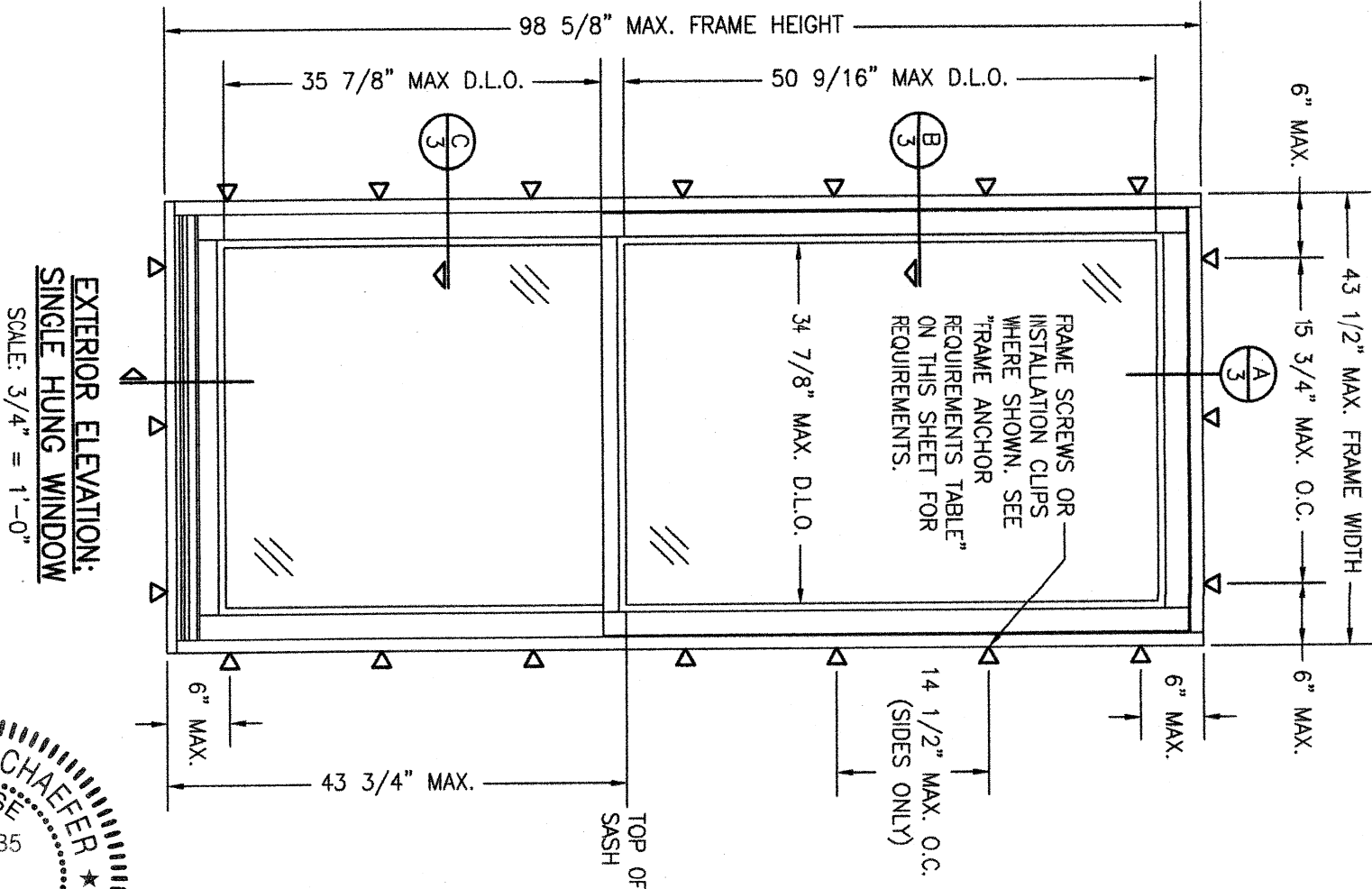
FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CONCRETE FILLED CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
INSTALLATION CLIP SCREWS (FLAT CLIP)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS SCREW	1 3/8"	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"
MIN. C-90 CONCRETE FILLED CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
INSTALLATION CLIP SCREWS (ANGLE CLIP)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS SCREW	1 3/8"	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"

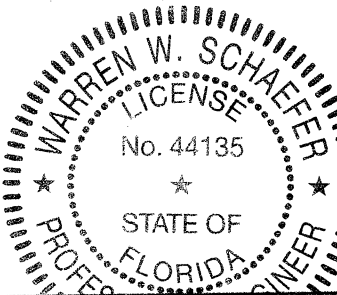
CMU IS NOT
APPLICABLE AT
HEAD & SILL.

CMU IS NOT
APPLICABLE AT
HEAD & SILL.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS 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 THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.



EXTERIOR ELEVATION:
SINGLE HUNG WINDOW
SCALE: 3/4\" = 1'-0"



MAHOGANY IMPACT WOOD SINGLE HUNG WINDOWS

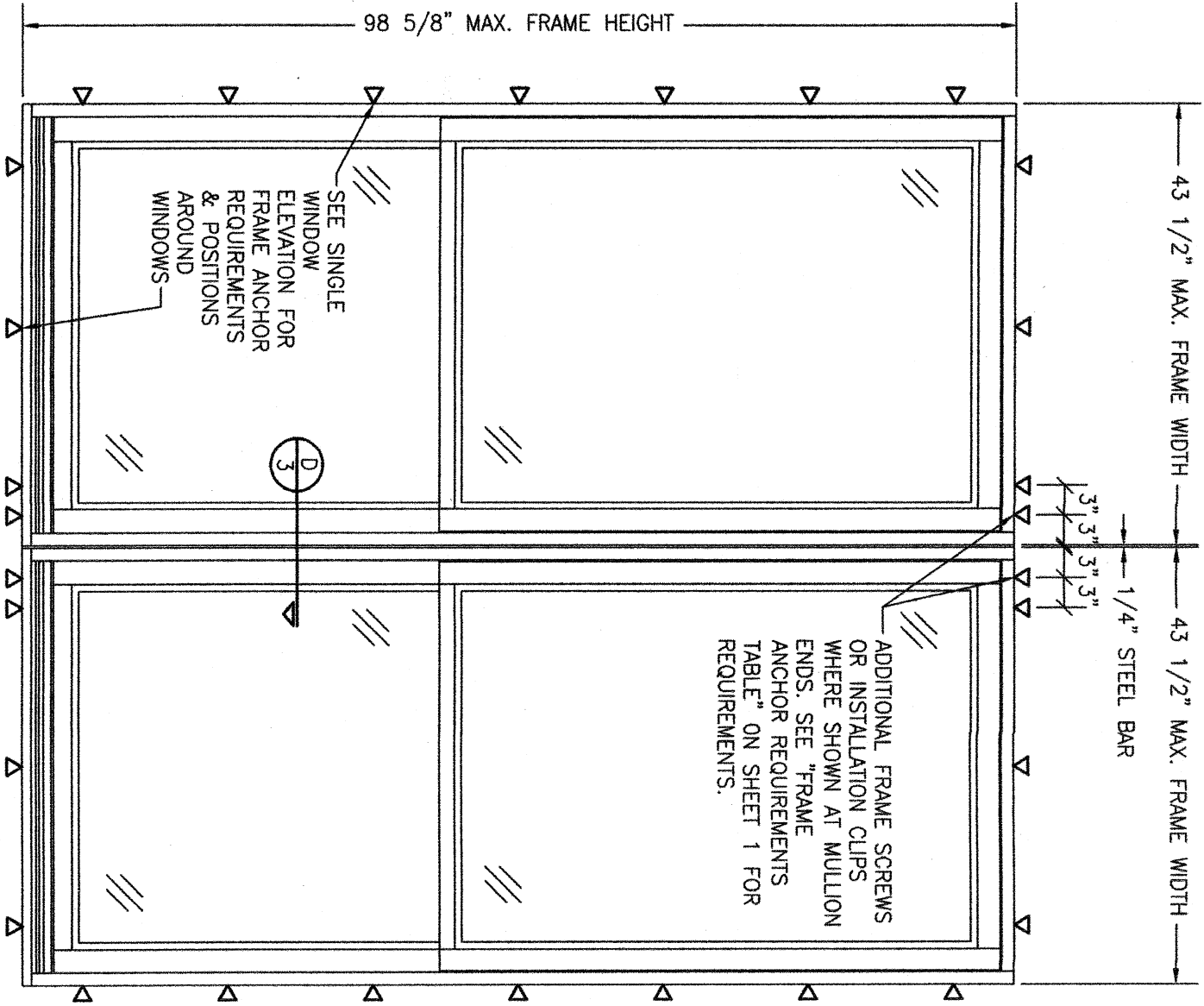
CONSULTANTS
**W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)**
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

MANUFACTURER
COASTAL MILLWORKS, INC.
3810 CONSUMER STREET
RIVIERA BEACH, FL 33404
561-881-7755

NO.	REVISION	DESCRIPTION	BY	DATE
1	16			05/23/22

DRAWING NO.	2010	REV.	
SHEET NO.	1	OF	5

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

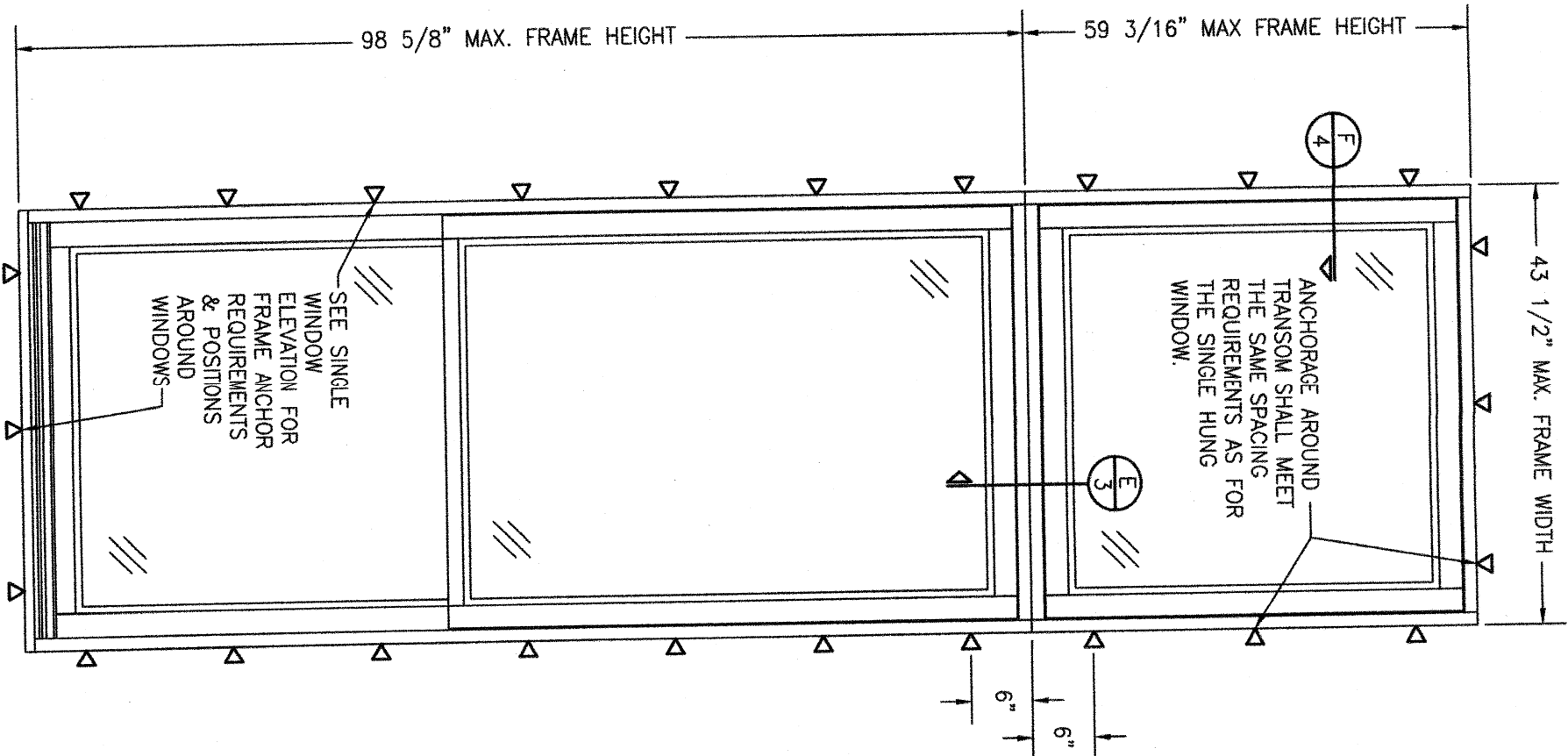


**EXTERIOR ELEVATION:
MULTIPLE SINGLE HUNG WINDOWS**

SCALE: 3/4" = 1'-0"

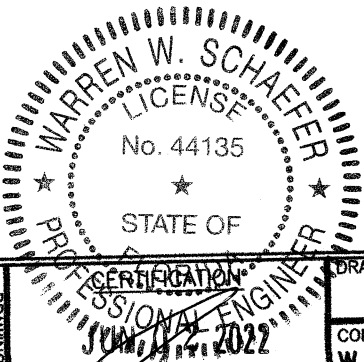
MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
2. THERE IS NO LIMIT TO THE NUMBER OF WINDOWS THAT MAY BE COMBINED INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
3. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE WINDOW ELEVATION.



**EXTERIOR ELEVATION:
SINGLE HUNG WITH TRANSOM**

SCALE: 3/4" = 1'-0"



DRAWING TITLE

MAHOGANY IMPACT WOOD SINGLE HUNG WINDOWS

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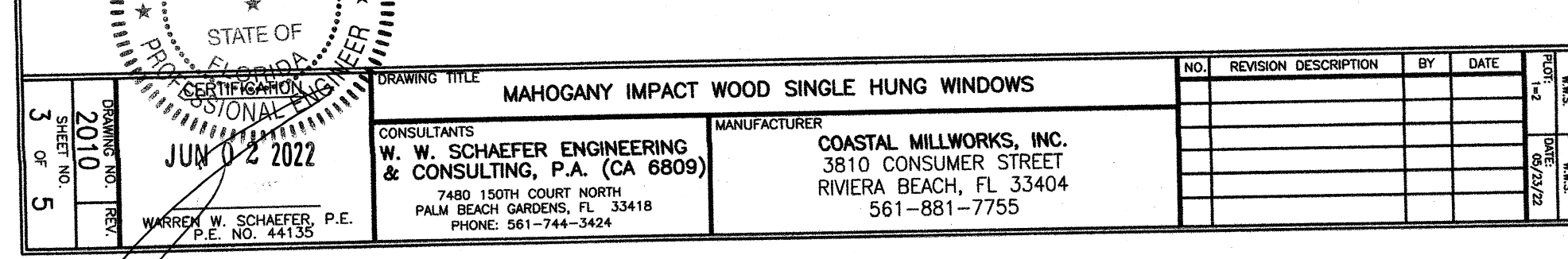
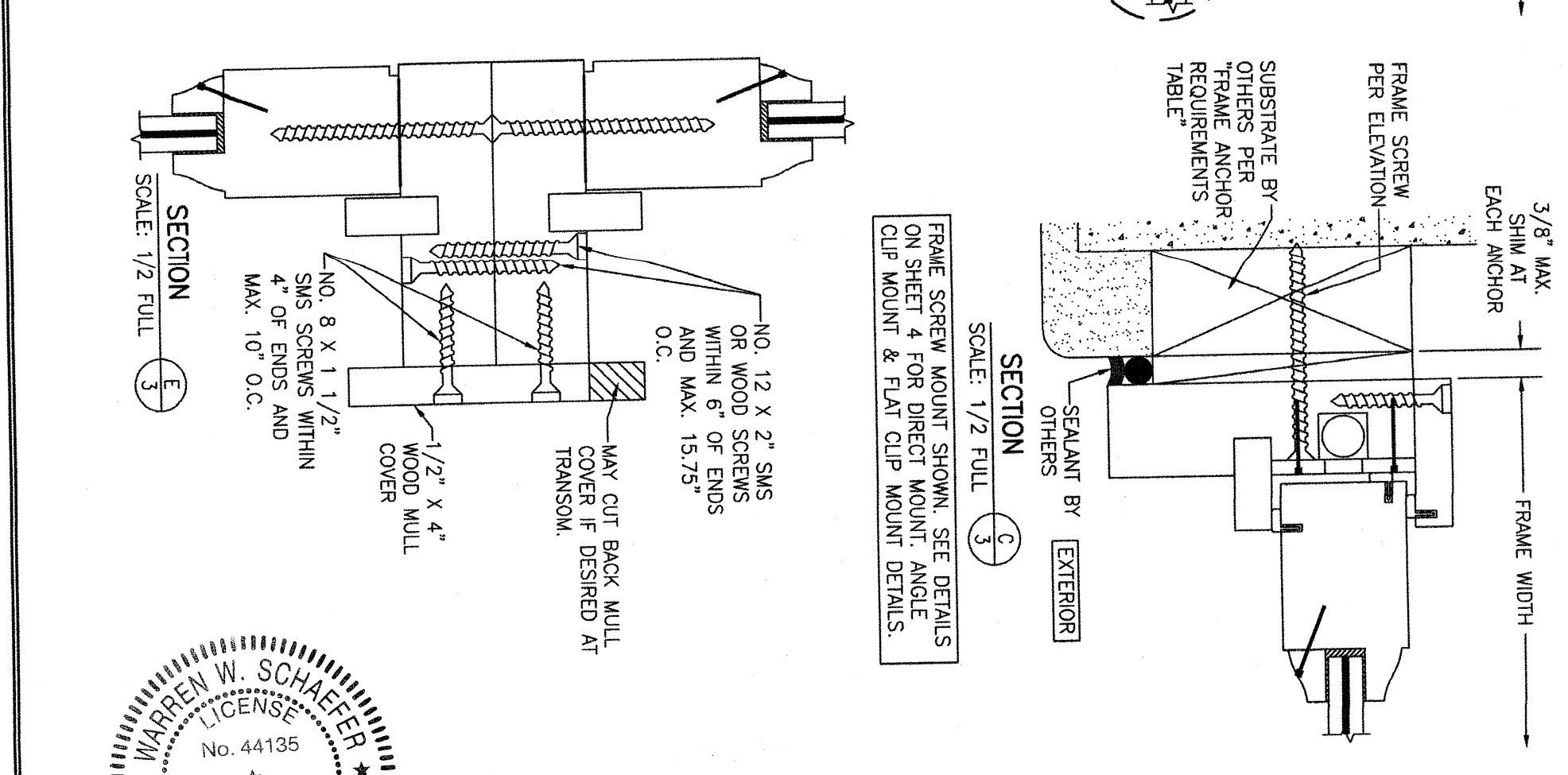
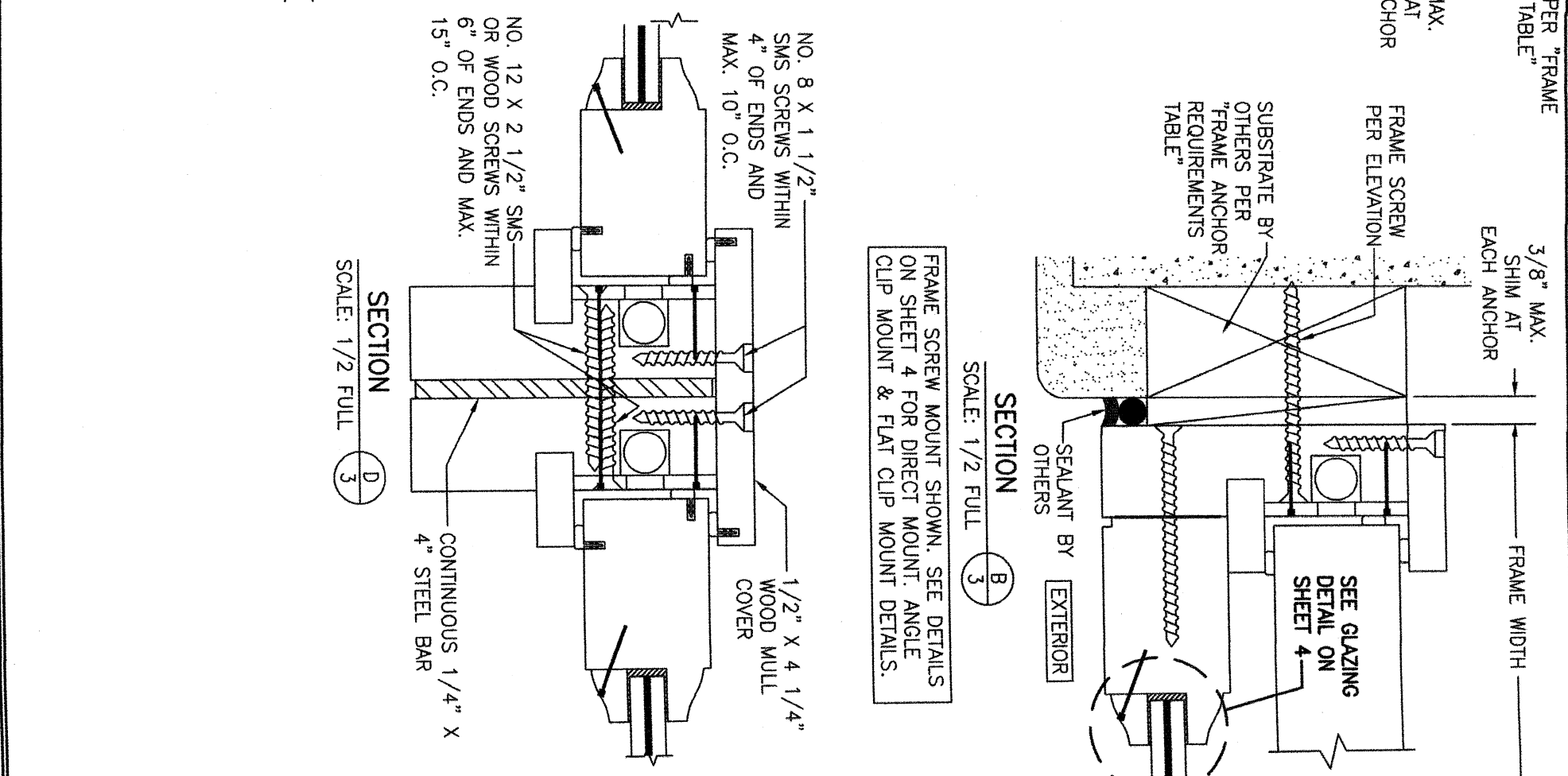
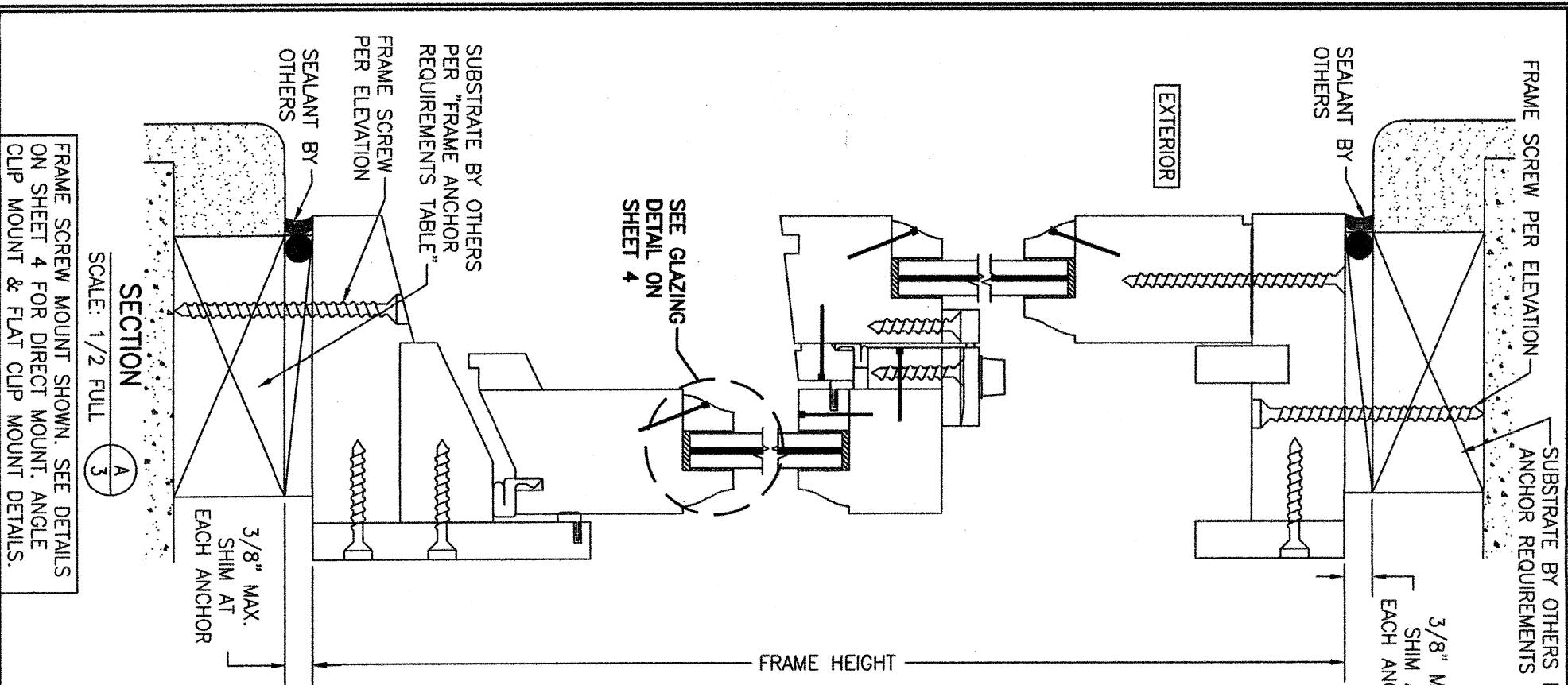
MANUFACTURER

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NO.	REVISION	DESCRIPTION	BY	DATE
1	16			05/23/22

DRAWING NO. 2010
SHEET NO. 2 OF 5

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135



WARREN W. SCHAEFER
LICENSE
No. 44135
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JUN 02 2022

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING TITLE: **MAHOGANY IMPACT WOOD SINGLE HUNG WINDOWS**

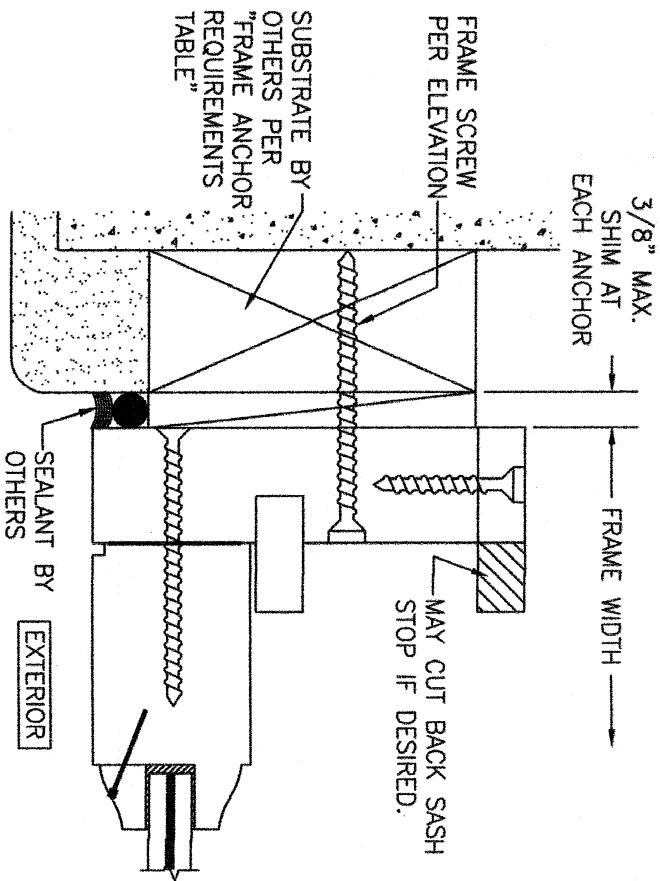
CONSULTANTS: **W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**
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MANUFACTURER: **COASTAL MILLWORKS, INC.**
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NO.	REVISION	DESCRIPTION	BY	DATE
1	2			06/23/22

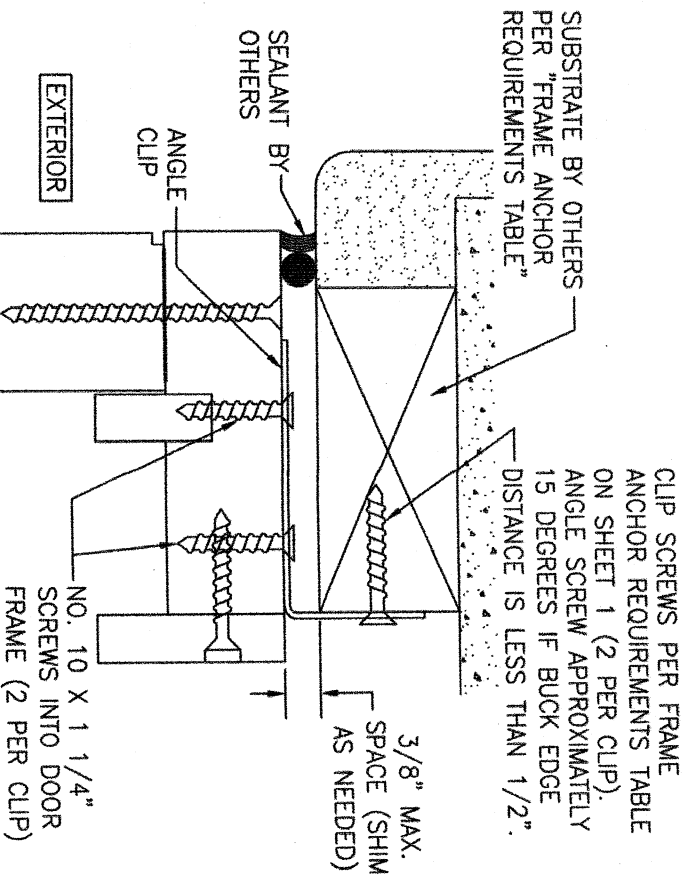
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SHEET NO. **3** OF **5**

DRAWN BY: W.M.S.
CHECKED BY: W.M.S.



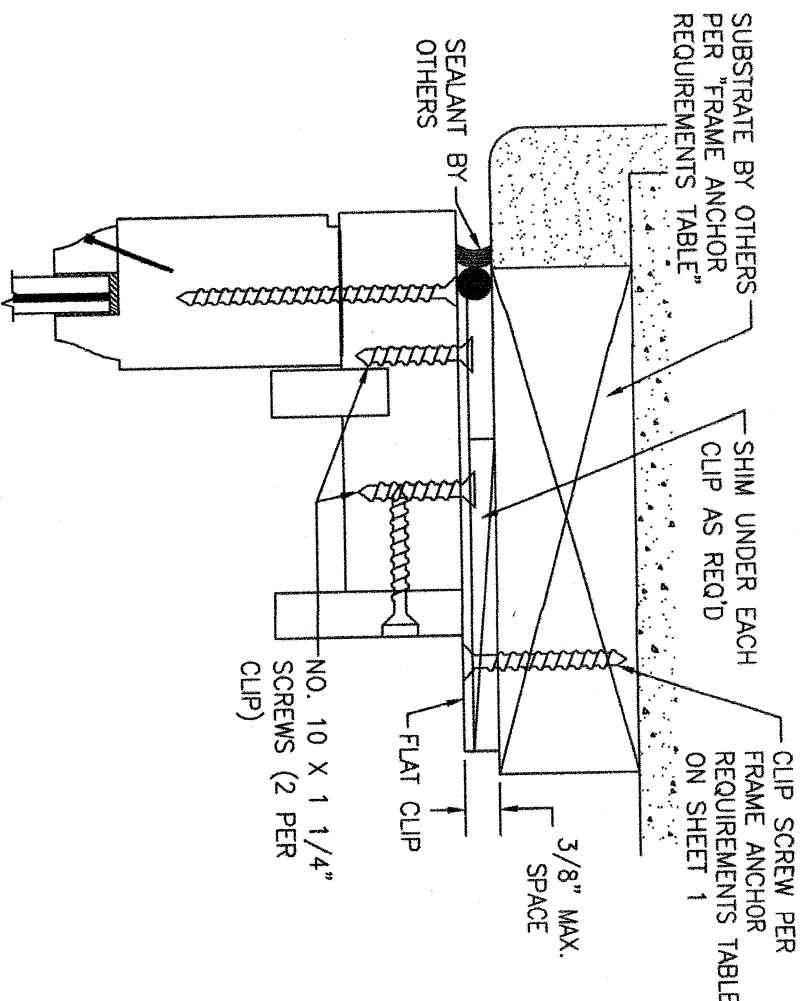
SECTION
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT, ANGLE CLIP MOUNT & FLAT CLIP MOUNT DETAILS.



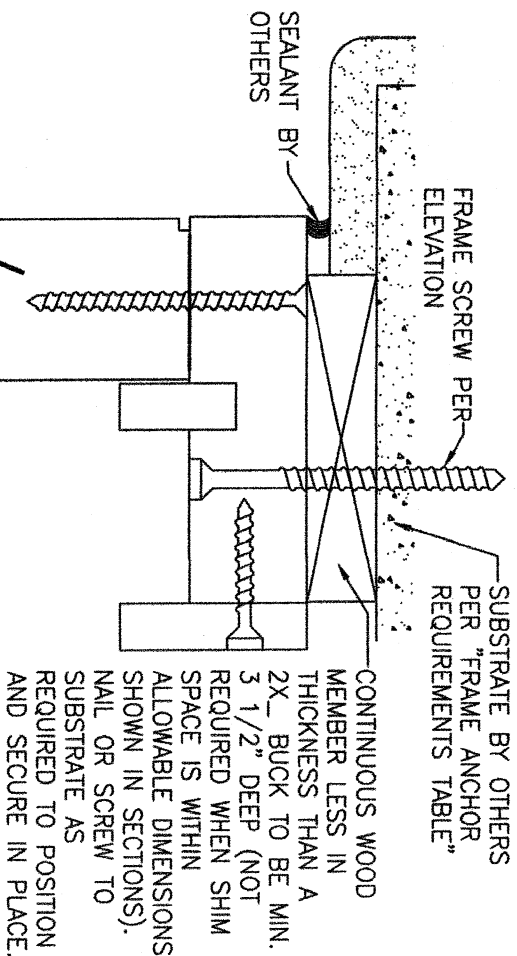
OPTIONAL ANGLE CLIP MOUNT DETAIL

(HEAD SECTION SHOWN. SIDES & SILL ARE INSTALLED THE SAME)



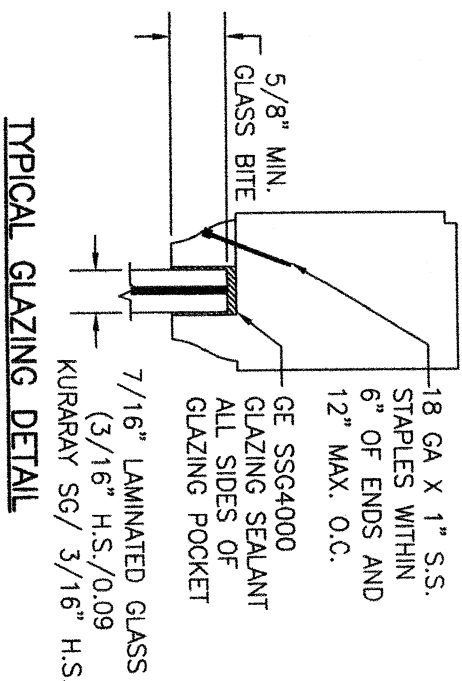
OPTIONAL FLAT CLIP MOUNT DETAIL

(HEAD SECTION SHOWN. SIDES & SILL ARE INSTALLED THE SAME)

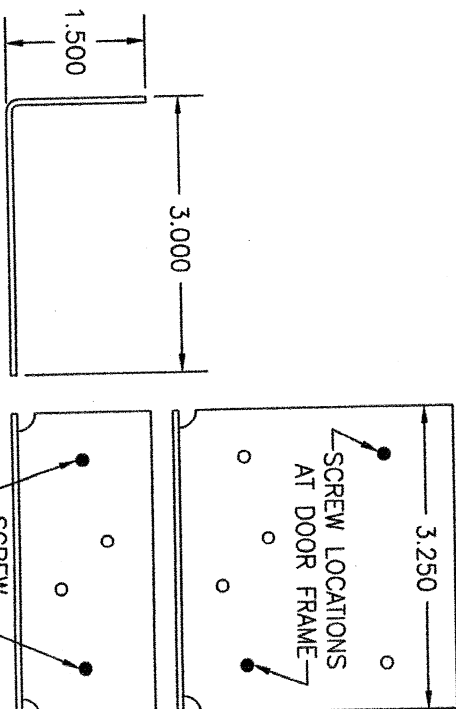


OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER

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

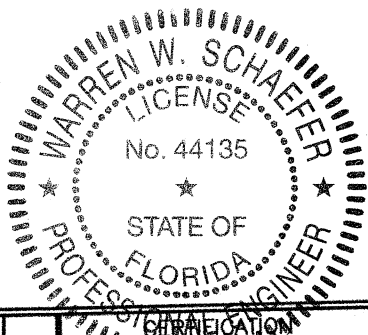


TYPICAL GLAZING DETAIL



ANGLE CLIP

- SIMPSON SWIFTCIP LE-SERIES 14 GAGE GALVANIZED STEEL ANGLE CLIP NO. LE683
- ANGLE CLIP NOTES:
1. LONG LEG GOES AGAINST DOOR FRAME.
 2. SPECIAL HOLES MAY BE DRILLED IF REQUIRED FOR PROPER POSITIONING OF CLIP TO SILL.
 3. ANY 2 HOLES MAY BE USED FOR CONNECTION TO SILL.



JUN 02 2022

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING TITLE

MAHOGANY IMPACT WOOD SINGLE HUNG WINDOWS

CONSULTANTS

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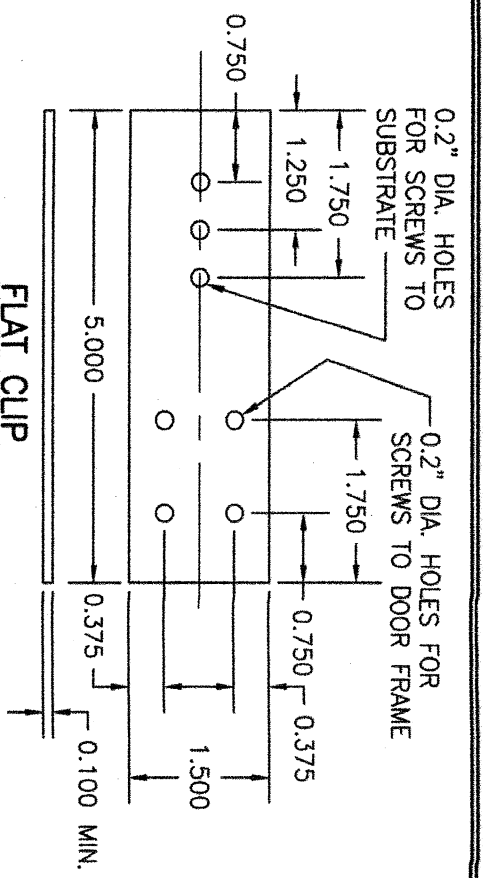
MANUFACTURER

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NO.	REVISION	DESCRIPTION	BY	DATE
1	2			

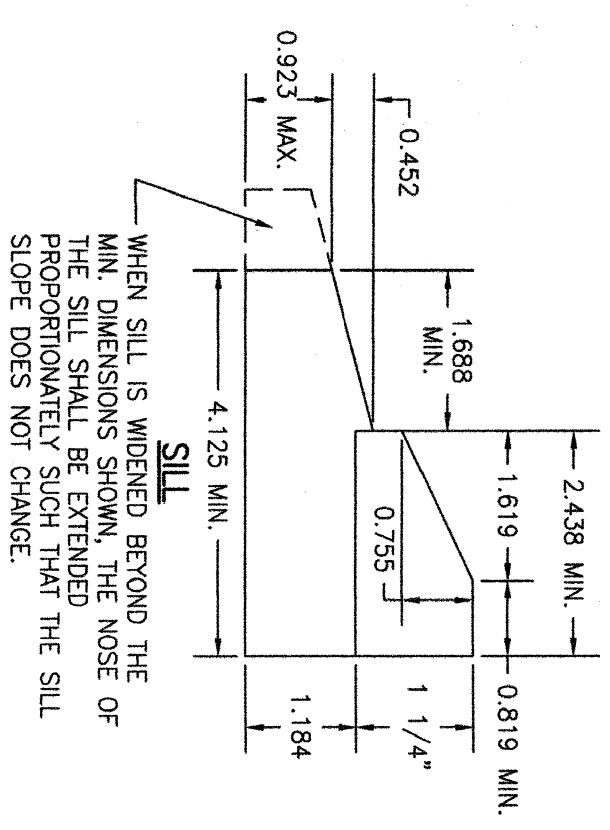
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CHECKED BY: W.W.S.
DATE: 06/23/22

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SHEET NO. 4 OF 5

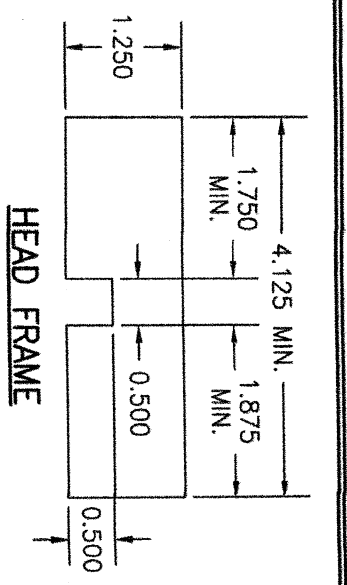


FLAT CLIP
(STAINLESS STEEL OR GALVANIZED STEEL)

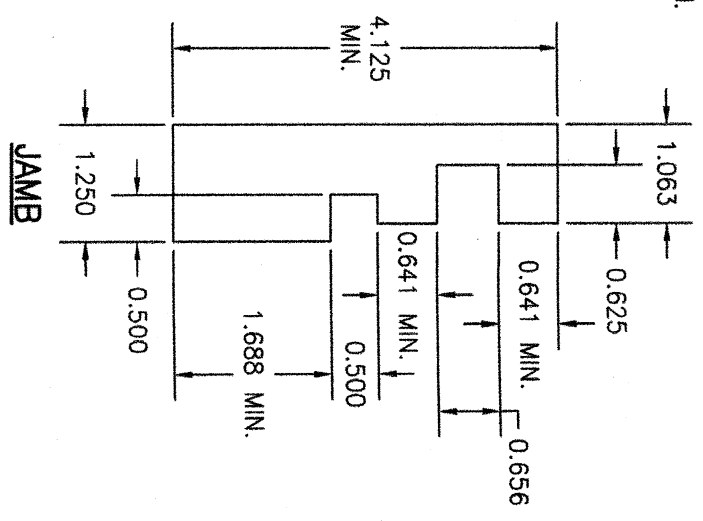
- FLAT CLIP NOTES:**
- SUBSTRATE SCREWS MAY BE PLACED IN ANY OF THE 3 HOLES PROVIDED (CLOSEST TO DOOR FRAME IS THE BEST).
 - SCREWS TO THE DOOR FRAME SHALL BE PLACED IN 2 OF THE 4 HOLES DIAGONAL FROM EACH OTHER.
 - SCREWS TO THE DOOR SILL SHALL BE IN 2 HOLES THAT ALIGN WITH EACH OTHER ACROSS THE CLIP.



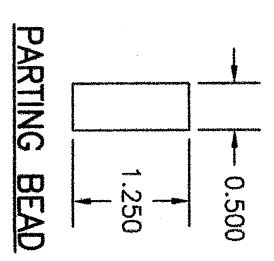
WHEN SILL IS WIDENED BEYOND THE MIN. DIMENSIONS SHOWN, THE NOSE OF THE SILL SHALL BE EXTENDED PROPORTIONATELY SUCH THAT THE SILL SLOPE DOES NOT CHANGE.



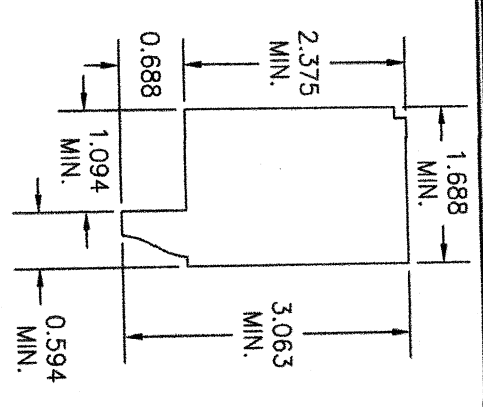
HEAD FRAME



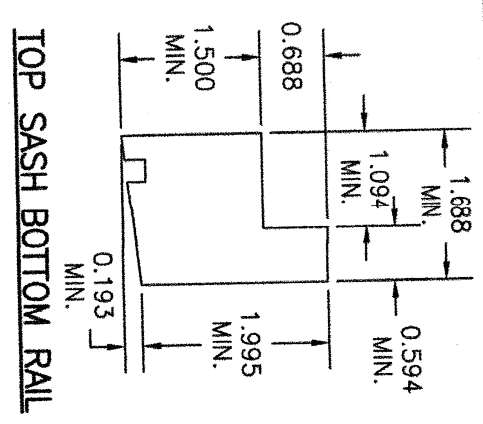
JAMB



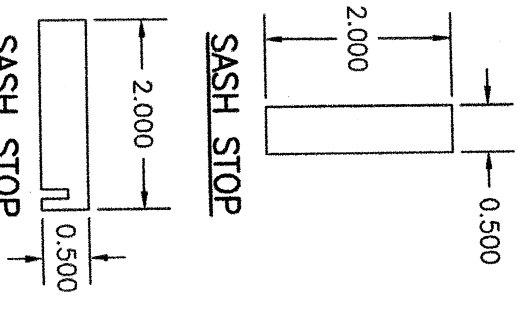
PARTING BEAD



TOP SASH STILE & RAIL

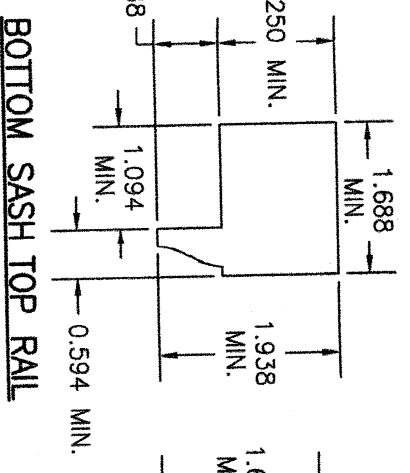


TOP SASH BOTTOM RAIL

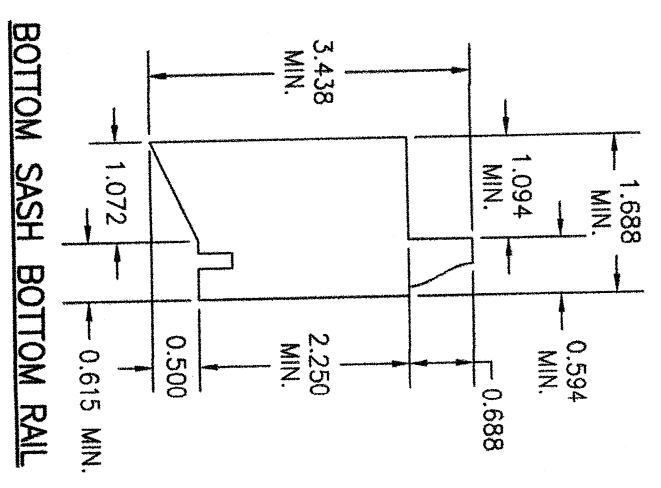


SASH STOP

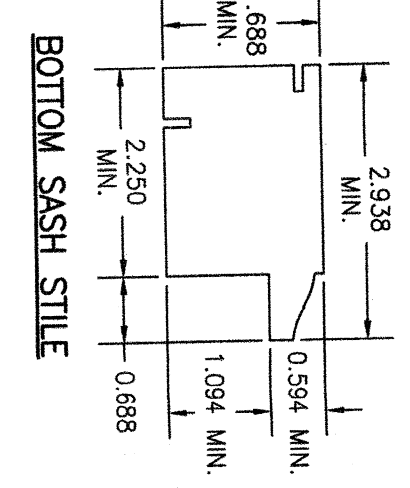
SASH STOP



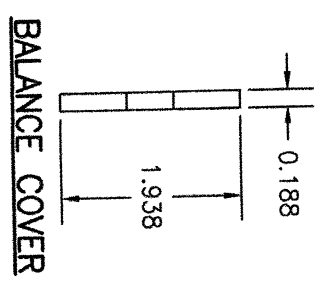
BOTTOM SASH TOP RAIL



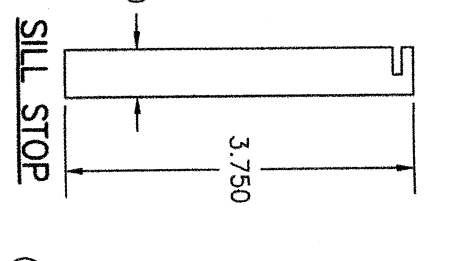
BOTTOM SASH BOTTOM RAIL



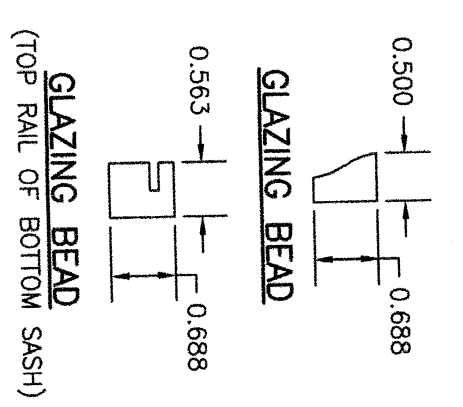
BOTTOM SASH STILE



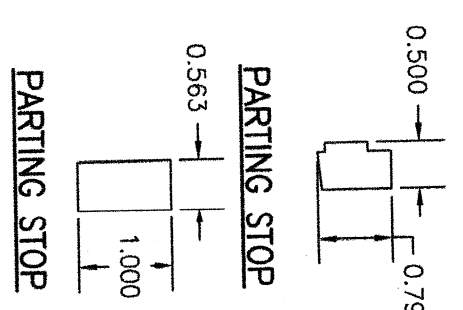
BALANCE COVER



SILL STOP

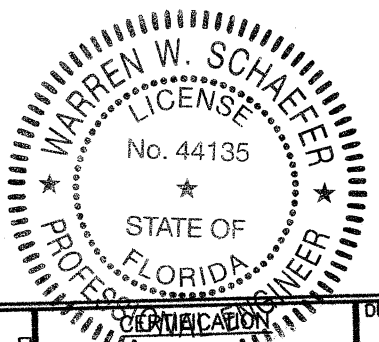


GLAZING BEAD
(TOP RAIL OF BOTTOM SASH)



PARTING STOP

NOTE: ALL WOOD PARTS USED WITH THE TESTED WINDOW UNITS WERE MAHOGANY. OTHER WOOD SPECIES MAY BE USED AS A SUBSTITUTE PROVIDING THE SPECIFIC GRAVITY "G" AND MODULUS OF ELASTICITY "E" ARE EQUAL TO OR GREATER THAN THAT OF THE MAHOGANY AND THE WOOD IS MINIMUM GRADE 2 MILLED TO SELECT.



JUN 02 2022

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING TITLE	
MAHOGANY IMPACT WOOD SINGLE HUNG WINDOWS	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	COASTAL MILLWORKS, INC. 3810 CONSUMER STREET RIVIERA BEACH, FL 33404 561-881-7755

NO.	REVISION	DESCRIPTION	BY	DATE
1	1			
2	2			
3	3			
4	4			
5	5			