

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED 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 HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS PRODUCT HAS BEEN DESIGNED 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. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/DA 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 THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
10. 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.
11. 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 AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

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.

FRAME ANCHOR REQUIREMENTS TABLE

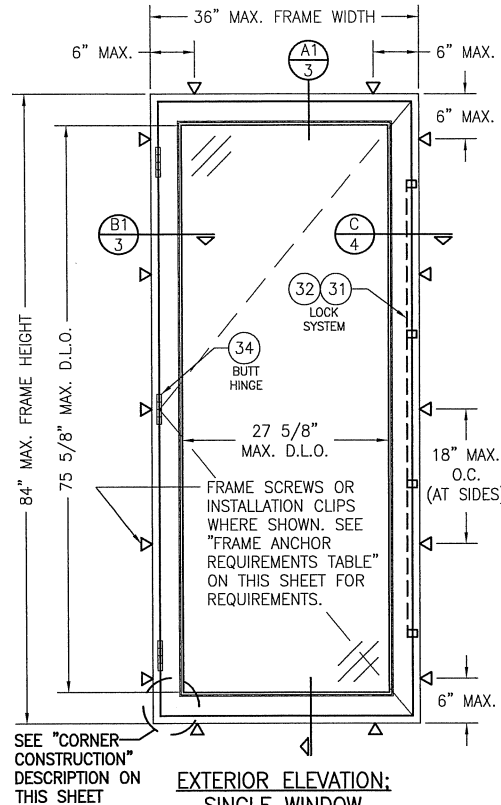
OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10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

ALLOWABLE DESIGN LOAD	
POSITIVE	NEGATIVE
60 PSF	70 PSF

BUTT HINGE REQUIREMENTS TABLE	
WINDOW HEIGHT	NO. OF HINGES REQUIRED
51" & LESS	2
ABOVE 51"	3

LOCK & SNUBBER REQUIREMENTS TABLE	
WINDOW HEIGHT	NO. OF LOCK POINTS REQUIRED
42" & LESS	2
43" to 61"	3
ABOVE 61"	4



**EXTERIOR ELEVATION:
SINGLE WINDOW
(WITH BUTT HINGES)**

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

CORNER CONSTRUCTION:

- WOOD JAMBS:** MITERED AND JOINED WITH STRUCTURAL SILICONE AND SECURED WITH THREE (3) NO. 8 X 2" S.S. WOOD SCREWS THRU HEAD AND SILL JAMBS INTO SIDE JAMBS & (2) NO. 8 X 2" S.S. WOOD SCREWS THRU SIDE JAMBS INTO HEAD AND SILL JAMBS
- JAMB CLAD:** MITERED AND SECURED WITH ONE (1) NO. 6 X 1 1/4" S.S. WOOD SCREW THRU HEAD CLAD INTO SIDE JAMB CLAD SCREW BOSS
- WOOD SASH:** BUTTED WITH MORTISE & TENON AND GLUED WITH FRANKLIN MULTI-BOND WOOD GLUE
- SASH CLAD:** SLID ONTO WOOD MEMBERS WITH RAIL CLAD BUTTED TO STILE CLAD & SEALED WITH SILICONE.

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.

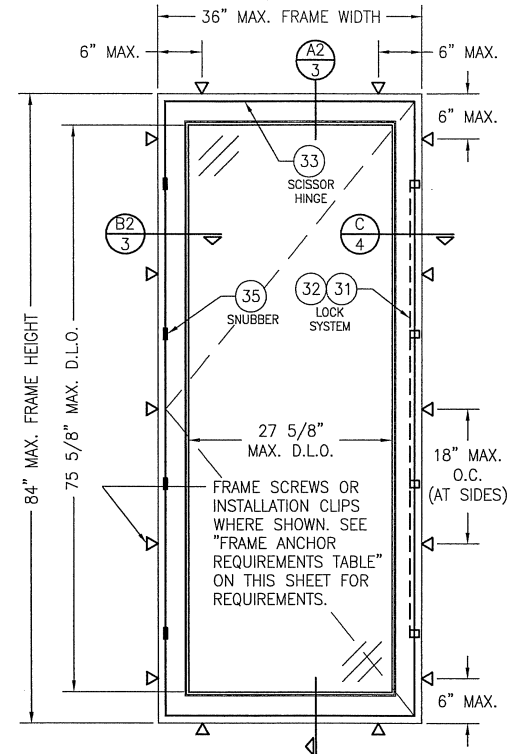
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1/14/12	W.W.S.	A1	UPDATE TO CURRENT STANDARDS	1
10/09/13	W.W.S.	B1	UPDATE TO CURRENT STANDARDS	2

DATE	BY	REVISION	DESCRIPTION	NO.
1/14/12	W.W.S.	A1	UPDATE TO CURRENT STANDARDS	1
10/09/13	W.W.S.	B1	UPDATE TO CURRENT STANDARDS	2

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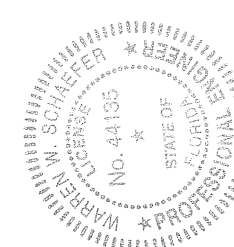
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1/14/12	W.W.S.	A1	UPDATE TO CURRENT STANDARDS	1
10/09/13	W.W.S.	B1	UPDATE TO CURRENT STANDARDS	2

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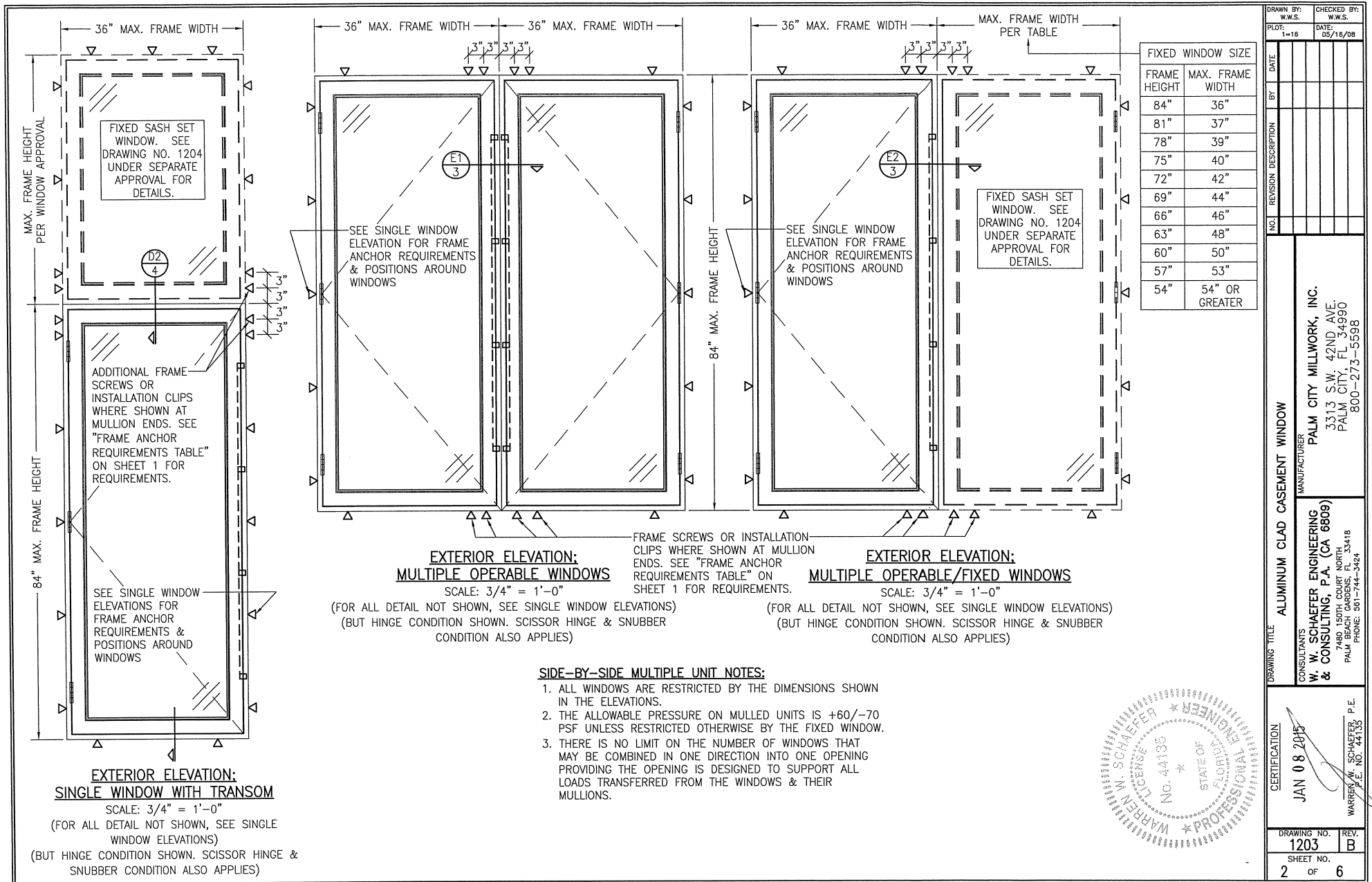


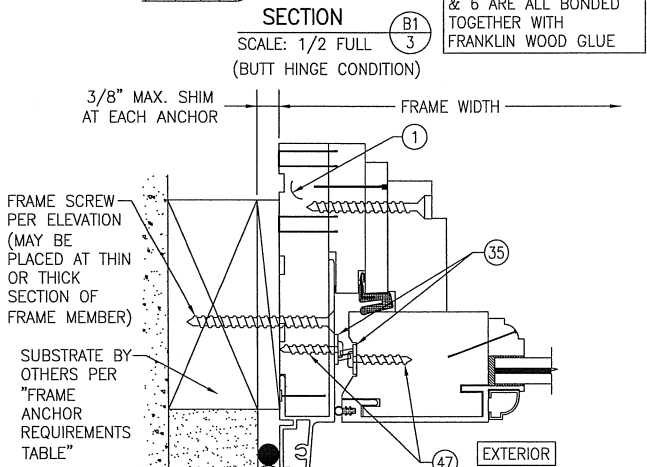
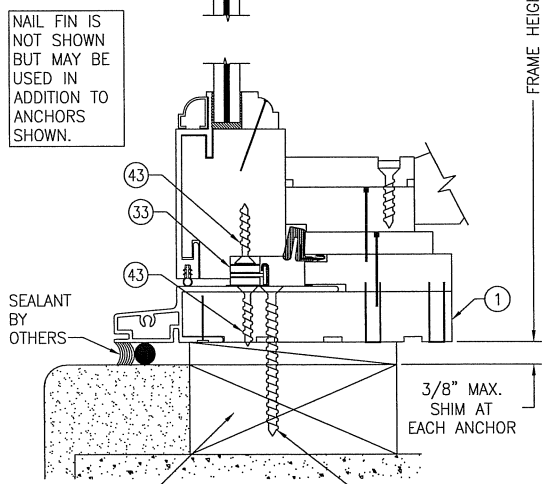
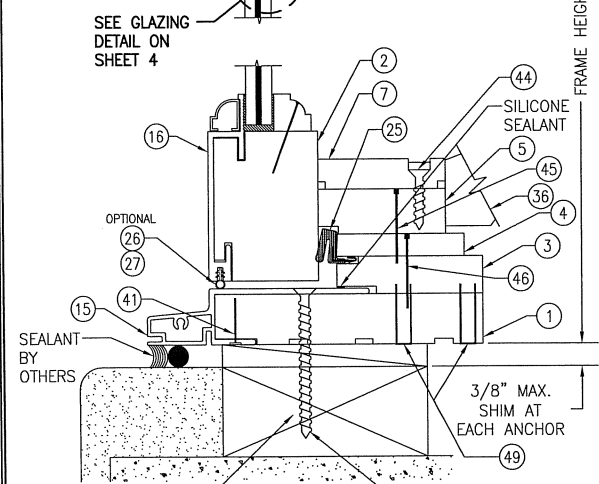
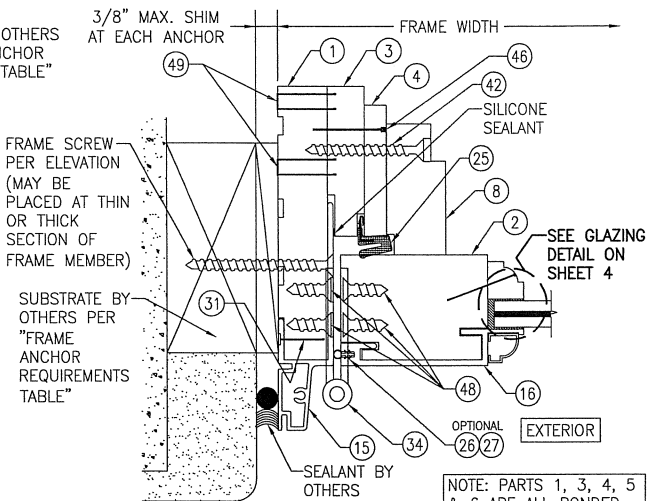
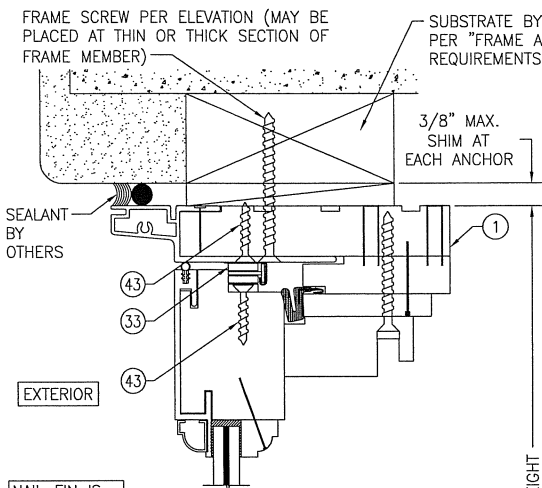
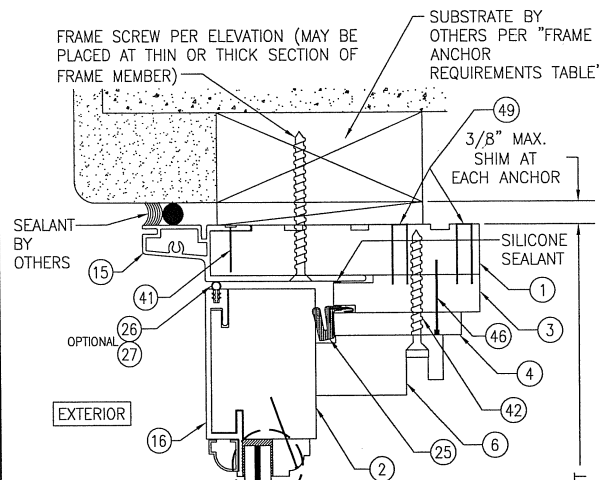
**EXTERIOR ELEVATION:
SINGLE WINDOW
(WITH SCISSOR HINGES & SNUBBERS)**

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



DATE	BY	REVISION	DESCRIPTION	NO.
1/14/12	W.W.S.	A1	UPDATE TO CURRENT STANDARDS	1
10/09/13	W.W.S.	B1	UPDATE TO CURRENT STANDARDS	2



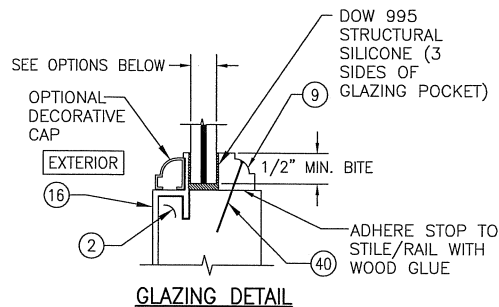
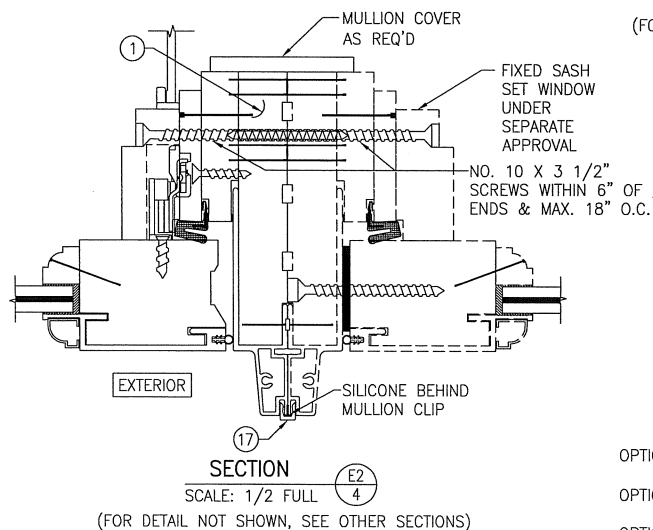
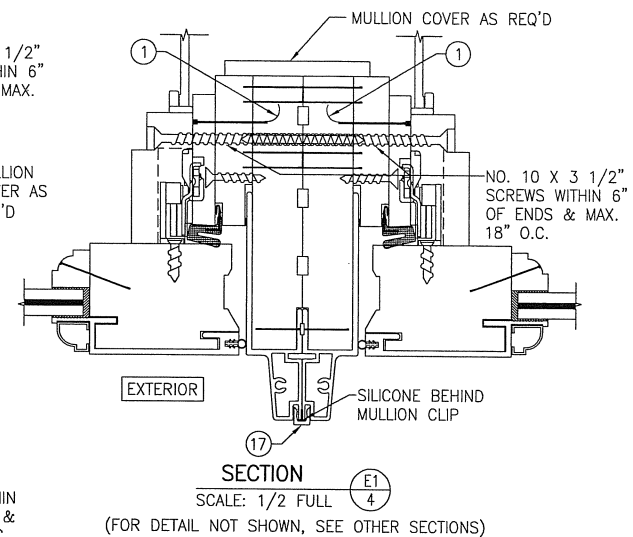
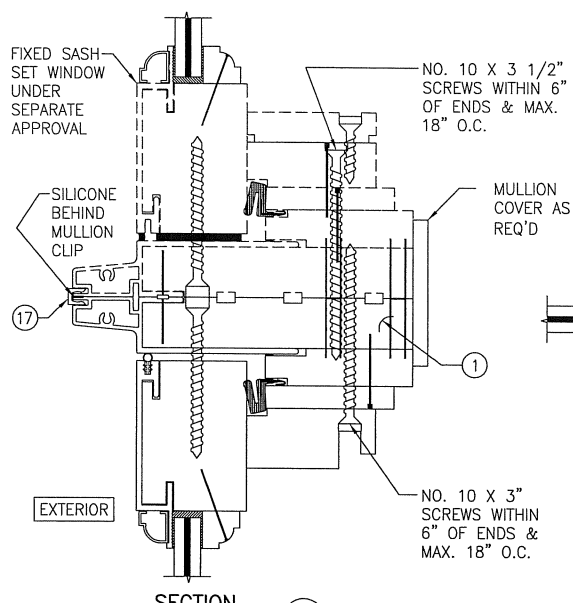
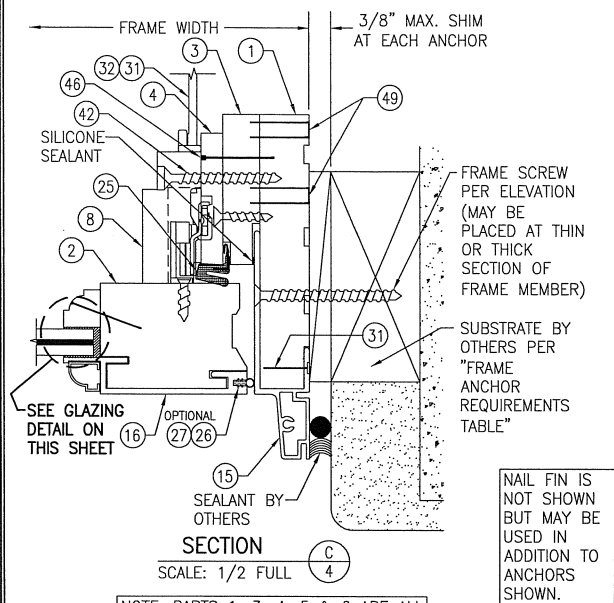


SECTION A1
SCALE: 1/2 FULL
3
NOTE: PARTS 1, 3, 4, 5 & 6 ARE ALL BONDED TOGETHER WITH FRANKLIN WOOD GLUE

SECTION A2
SCALE: 1/2 FULL
3
(SNUBBER WITH SCISSOR HINGE CONDITION)
(FOR DETAIL NOT SHOWN, SEE SECTION A1/3)

SECTION B1
SCALE: 1/2 FULL
3
(BUTT HINGE CONDITION)
(FOR DETAIL NOT SHOWN, SEE SECTION B1/3)

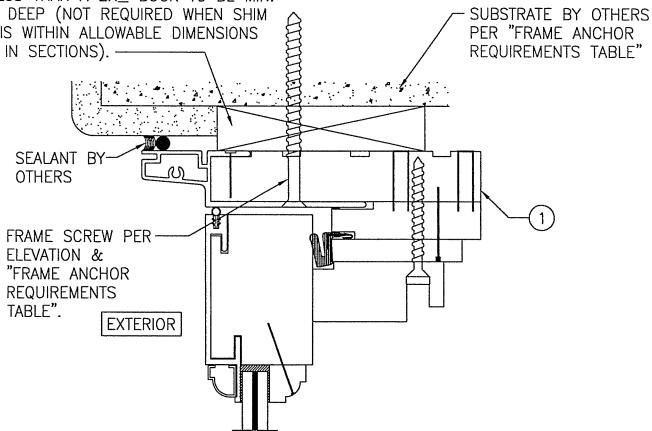
DRAWN BY: T.J.W.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/16/08	
DATE	BY	REVISION	DESCRIPTION
ALUMINUM CLAD WOOD CASEMENT WINDOW MANUFACTURER: PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3624 CERTIFICATION: JAN 08 2018 No. 44135 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 DRAWING NO. 1203 SHEET NO. 3 OF 6			



- OPTION #1: 7/16" THICK LAMINATED GLASS (3/16" AN./0.10" EASTMAN CHEM. CO. SAFLEX HP/3/16" AN.)
- OPTION #2: 7/16" THICK LAMINATED GLASS (3/16" AN./0.09" EASTMAN CHEM. CO. SAFLEX/3/16" AN.)
- OPTION #3: 7/16" THICK LAMINATED GLASS (3/16" AN./0.09" DUPONT SG/3/16" AN.)

DRAWN BY:	T.J.W.	CHECKED BY:	W.W.S.
PLT:	1-2	DATE:	05/16/08
DATE			
BY			
REVISION DESCRIPTION			
NO.			
DRAWING TITLE			
ALUMINUM CLAD WOOD CASEMENT WINDOW			
CONSULTANTS			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL			
PHONE: 561-744-3424			
MANUFACTURER			
PALM CITY MILLWORK, INC.			
3313 S.W. 42ND AVE.			
PALM CITY, FL 34990			
800-273-5598			
CERTIFICATION			
JAN 08 2008			
WARREN W. SCHAEFER, P.E.			
P.E. NO. 44135			
DRAWING NO.	1203	REV.	B
SHEET NO.	4	OF	6

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X₄ BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).

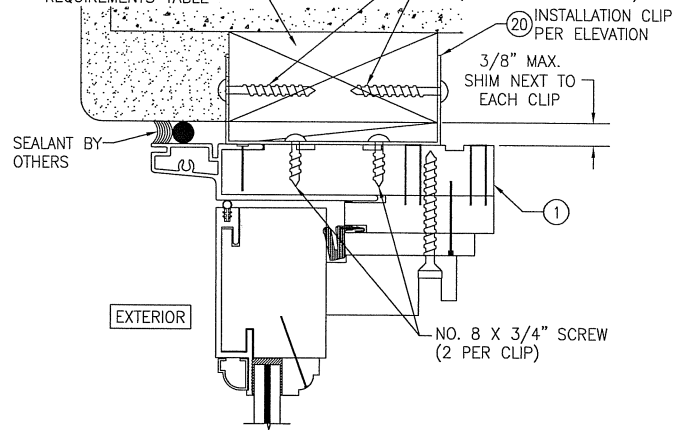


OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(BUT HINGE CONDITION SHOWN. SCISSOR HINGE & SNUBBER CONDITION ALSO APPLIES)
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE"

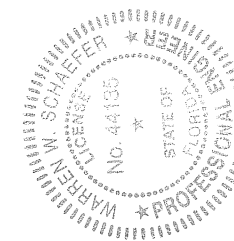
INSTALLATION CLIP SCREWS PER "FRAME ANCHOR REQUIREMENTS TABLE" (2 TOTAL; 1 PER SIDE)



OPTIONAL INSTALLATION CLIP DETAIL

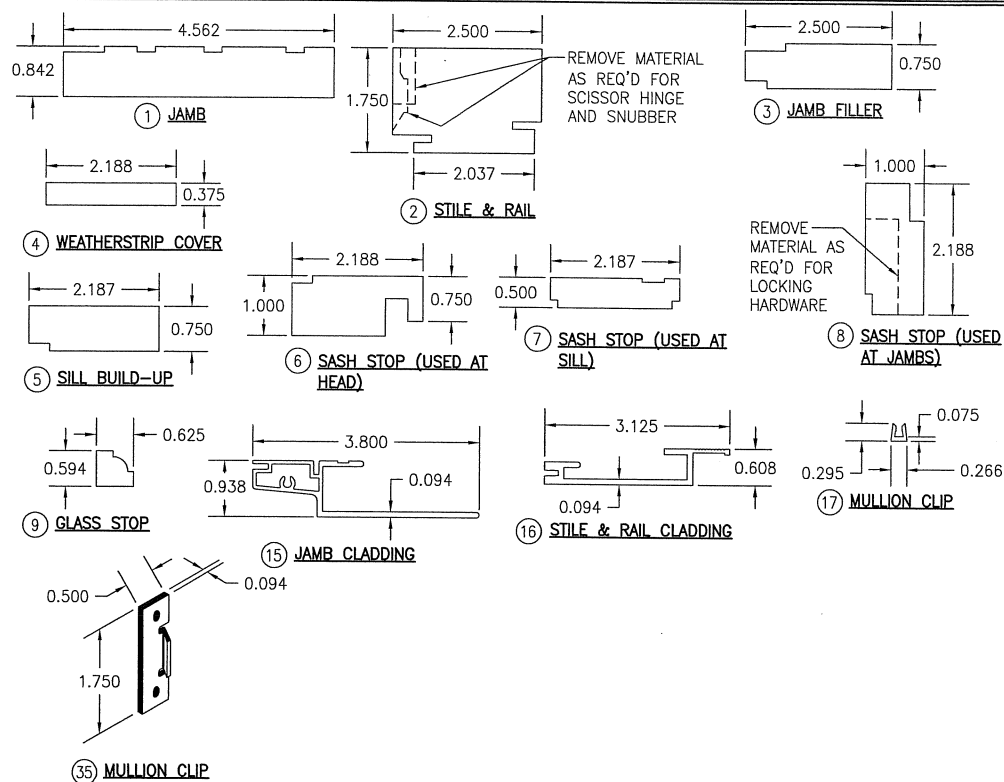
(BUT HINGE CONDITION SHOWN. SCISSOR HINGE & SNUBBER CONDITION ALSO APPLIES)
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY: T.J.W.		CHECKED BY:	
PLOT: 1=2		DATE: 05/15/08	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: ALUMINUM CLAD WOOD CASEMENT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: PALM CITY MILLWORK, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598	
CERTIFICATION: WARREN W. SCHAEFER, P.E. NO. 44135		JAN 08 2015	
DRAWING NO. 1203		REV. B	
SHEET NO. 5		OF 6	



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB	WOOD
2	STILE & RAIL	WOOD
3	JAMB FILLER	WOOD
4	WEATHERSTRIP COVER	WOOD
5	SILL BUILD-UP	WOOD
6	SASH STOP (USED AT HEAD)	WOOD
7	SASH STOP (USED AT SILL)	WOOD
8	SASH STOP (USED AT JAMBS)	WOOD
9	GLASS STOP	WOOD
12	1/8" X 1 7/16" SHIM BLOCK	RUBBER
15	JAMB CLADDING	6063-T5 ALUMINUM
16	MULLION CLIP (CONTINUOUS)	6063-T5 ALUMINUM
20	INSTALLATION CLIP 0.043" X 1 1/4" X 6.5"	MIN. 33 P.S.I. GALVANIZED STEEL
SEALS & SEALANTS		
25	WEATHERSTRIP	SCHLEGEL Q-LON QEBD-650
26	WEATHERSTRIP	AMESBURY 12400
27	WEATHERSTRIP	SCHLEGEL PF-109
HARDWARE		
30	TRUTH LEVER ASSEMBLY	AS REQUIRED TO FOR LOCK ASSEMBLY
31	4-POINT MULTI-POINT LOCK SYSTEM	TRUTH MIRAGE 11524.92
32	4-POINT MULTI-POINT LOCK SYSTEM	ASHLAND
33	SCISSORS HINGE	TRUTH 14.80.00-503/504
34	HINGE (BRASS)	HAGER #1191 4 1/2" X 4 1/2"
35	SNUBBER	-
36	CRANK ASSEMBLY	AS REQUIRED TO OPERATE WINDOW
FASTENERS		
40	18 GA. X 1" FINISH NAIL	2" FROM CORNERS & 5" MAX. O.C.
41	18 GA. X 7/8" X 3/4" S.S. STAPLES	5" FROM CORNERS & 6" MAX. O.C.
42	NO. 8 X 2" FH SS WOOD SCREW	2" FROM ENDS & 12" MAX. O.C.
43	NO. 8 X 1" S.S. WOOD SCREW	3 PER SCISSOR HINGE
44	NO. 8 X 1" S.S. WOOD SCREW	2" FROM ENDS & AT MIDPOINT OF SILL CAP
45	18 GA. X 1 1/4" FINISH NAIL	2" FROM CORNERS & 8" O.C.
46	18 GA. X 1 1/4" FINISH NAIL	2" FROM CORNERS & 5" O.C.
47	NO. 6 X 1" S.S. PAN HEAD WOOD SCREW	2 PER SNUBBER
48	NO. 12 X 3/4" FH SS WOOD SCREW	4 PER BUTT HINGE LEAF
49	18 GA. X 1 1/4" FINISH NAIL	2" FROM CORNERS & APPROX. 4" O.C.

NOTE: WOOD USED IN TESTING WAS MAHOGANY WITH A SPECIFIC GRAVITY OF $G = 0.62$ AND A MODULUS OF ELASTICITY OF $E = 1,600,000$ PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PALM CITY MILLWORK, INC. TO SELECT.



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PLOT: 1=2		DATE: 05/16/08	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: ALUMINUM CLAD WOOD CASEMENT WINDOW CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 PHONE: 561-744-5424 MANUFACTURER: PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE., PALM CITY, FL 34990 800-273-5598			
CERTIFICATION		JAN 08 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44138	
DRAWING NO. 1203		REV. B	
SHEET NO. 6		OF 6	

