

GENERAL NOTES:

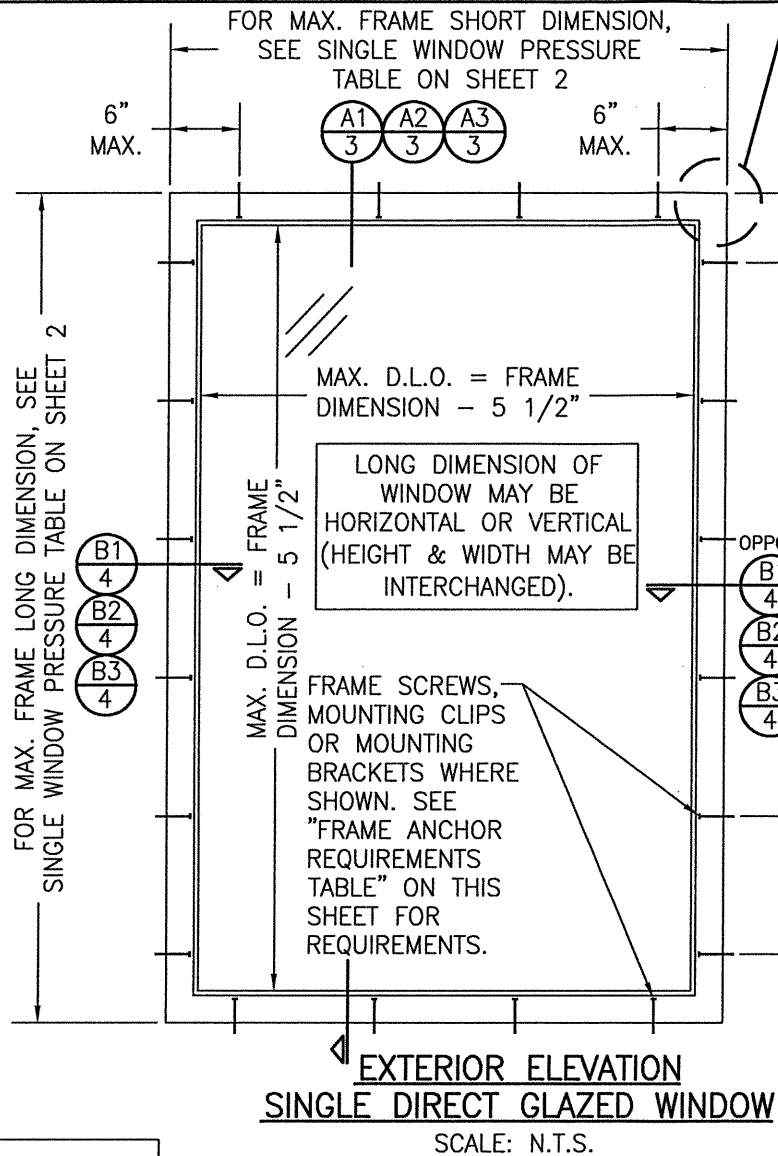
1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE 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/QA 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

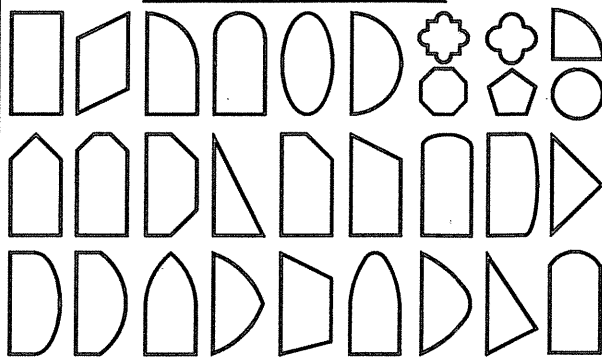
OPENING TYPE (SUBSTRATE)	FRAME/CLIP/BACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	1"
MIN. 16 GA. 50 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK STEEL OR ALUMINUM	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
MOUNTING CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW	1 3/8"	1/2"
MIN. 1/8" THK STEEL OR ALUMINUM	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
NARROW MOUNTING BRACKET SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD 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 STEEL OR ALUMINUM	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
WIDE MOUNTING BRACKET SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD 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 STEEL OR ALUMINUM	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/2"	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.).



RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED ON THIS SHEET.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

CORNER CONSTRUCTION

JAMBS: MULTI-FORKED, JOINED AND GLUED WITH BINDAN D4 WOOD GLUE OR EQUIVALENT

FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE LESS THAN OR EQUAL TO THE MULLION LENGTH (SEE MULLION LOAD TABLE)

SCALE: N.T.S.

(MAX. FOUR UNITS MAY BE COMBINED IN ONE OPENING)
SEE SINGLE WINDOW ELEVATION FOR WINDOW DETAIL NOT SHOWN

MULTIPLE UNIT NOTES:

1. ALL WINDOWS ARE RESTRICTED BY THE DIMENSIONS SPECIFIED.
2. THE MAXIMUM ALLOWABLE PRESSURE FOR A COMBINED UNIT IS RESTRICTED BY THE LESSER OF THE INDIVIDUAL WINDOW ALLOWABLE PRESSURE OR THE ALLOWABLE MULLION PRESSURE. SEE LOAD TABLES ON SHEET 2.
3. WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. (IF VERTICALLY STACKED, MANUFACTURER MUST INSURE THAT THE DEAD WEIGHT OF THE WINDOWS DOES NOT CAUSE ANY WINDOW FAILURES OR DEFORMATIONS)

ALLOWABLE DESIGN PRESSURE

SEE LOAD TABLES ON SHEET 2

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.

DRAWN BY:		CHECKED BY:	
S.T.R.		W.W.S.	
PLOT: 1=16		DATE: 3/11/05	
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO PRESENT STANDARDS	WRM	05/05/10
B1	CHANGE CONSULTANTS ADDRESS	WRM	10/19/11
C1	ADDED WIDER FRAME SHORT DIMENSIONS AND WIDE BRACKET	WWS	04/09/14
D1	UPDATE TO PRESENT STANDARDS	WWS	03/25/15
E1	CHANGE TO STATE APPROVAL	WWS	04/16/20

AMERICAN & EUROPEAN DIRECT GLAZED IMPACT WOOD WINDOWS

MANUFACTURER

PEETZ WINDOWS & DOORS
15951 S.W. 41ST STREET, SUITE 150
WESTON, FL 33331
954-659-3887

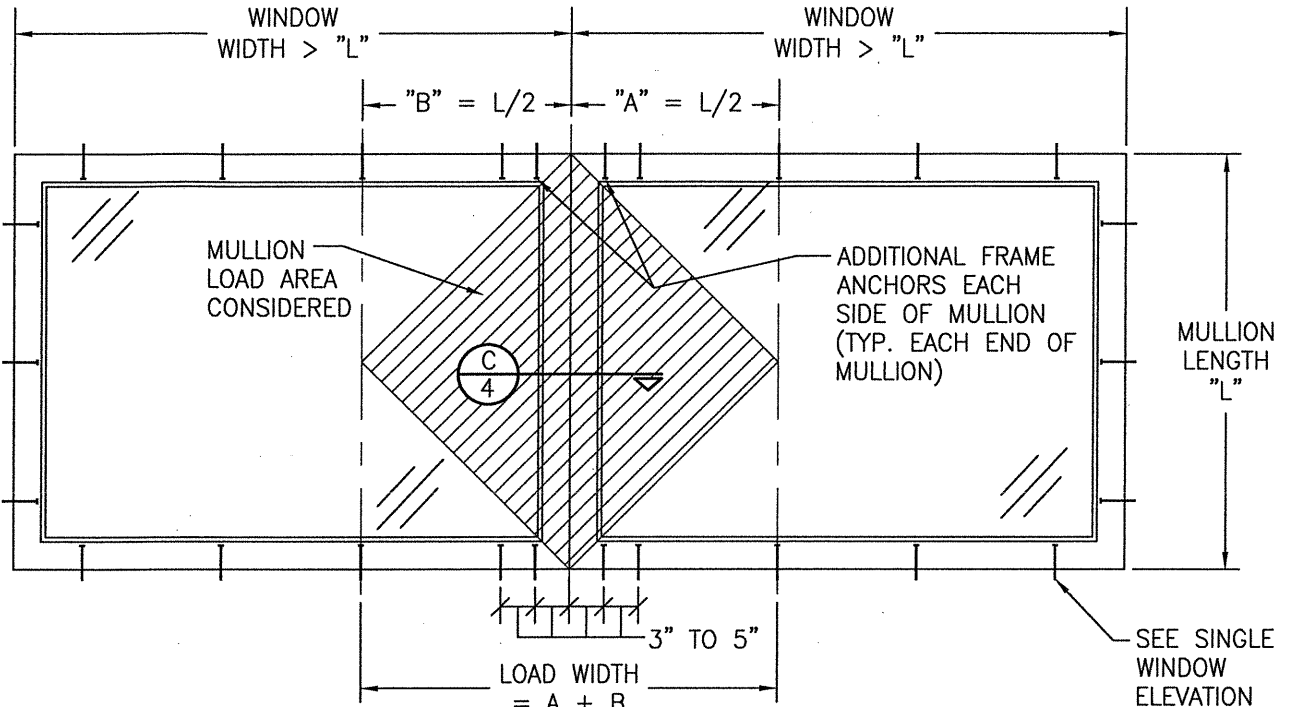
CONSULTANTS

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

WARREN W. SCHAEFER
P.E. NO. 44135
JUN 02 2020
PROFESSIONAL ENGINEER
STATE OF FLORIDA

DRAWING NO.	REV.
1323	E
SHEET NO.	
1	OF 5

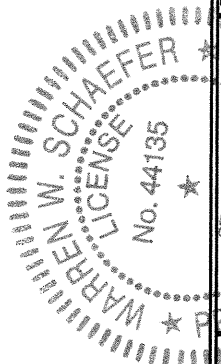
ALLOWABLE SINGLE WINDOW DESIGN PRESSURE								
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF)						
		WITH I.G. GLAZING			WITH NON-I.G. GLAZING			
		OPTION 1	OPTION 2	OPTION 3 & 4	OPTION 1	OPTION 2	OPTION 3	OPTION 4
144	50	64.1	75.0		59.1	75.0		
	48	68.5	75.0		63.1	75.0		
	42	75.0	75.0		75.0	75.0		
	36	75.0	75.0		75.0	75.0		
	30	75.0	75.0		75.0	75.0		75.0
	24	75.0	75.0		75.0	75.0		75.0
132	54	60.8	75.0		56.0	75.0		
	48	71.3	75.0		65.7	75.0		
	42	75.0	75.0		75.0	75.0		
	36	75.0	75.0		75.0	75.0		
	30	75.0	75.0		75.0	75.0		75.0
	24	75.0	75.0	75.0	75.0	75.0	75.0	75.0
120	60	57.6	75.0		53.1	75.0		
	54	64.8	75.0		59.7	75.0		
	48	75.0	75.0		69.6	75.0		
	42	75.0	75.0		75.0	75.0		
	36	75.0	75.0		75.0	75.0		75.0
	30	75.0	75.0	75.0	75.0	75.0	75.0	75.0
108	66		75.0			75.0		
	60	64.9	75.0		59.8	75.0		
	54	72.0	75.0		66.4	75.0		
	48	75.0	75.0		75.0	75.0		
	42	75.0	75.0		75.0	75.0		75.0
	36	75.0	75.0		75.0	75.0		75.0
96	30	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	75		75.0			75.0		
	60	73.4	75.0		67.7	75.0		
	54	75.0	75.0		74.1	75.0		
	48	75.0	75.0		75.0	75.0		
	42	75.0	75.0		75.0	75.0		75.0
90	36	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	75		75.0			75.0		
	60	75.0	75.0		72.1	75.0		
	54	75.0	75.0		75.0	75.0		
	48	75.0	75.0		75.0	75.0		75.0
	42	75.0	75.0		75.0	75.0		75.0
84	40	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	75		75.0			75.0		
	60	75.0	75.0		75.0	75.0		
	54	75.0	75.0		75.0	75.0		75.0
	48	75.0	75.0		75.0	75.0		75.0
	42	75.0	75.0	75.0	75.0	75.0	75.0	75.0
78	75		75.0			75.0		
	60	75.0	75.0		75.0	75.0		
	54	75.0	75.0		75.0	75.0		75.0
	48	75.0	75.0		75.0	75.0		75.0
	42	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	72		75.0			75.0		75.0
72	60	75.0	75.0		75.0	75.0		75.0
	54	75.0	75.0		75.0	75.0		75.0
	48	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	72		75.0			75.0		75.0
	66		75.0			75.0		75.0
	60	75.0	75.0		75.0	75.0		75.0
66	54	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	60	75.0	75.0			75.0		75.0
60	60	75.0	75.0	75.0	75.0	75.0	75.0	75.0
NOTES: 1. SEE GLAZING DETAILS FOR GLAZING OPTIONS 2. CROSSED OUT BOXES DESIGNATE SIZES NOT ACCEPTABLE FOR THE RESPECTIVE GLASS OPTION.								



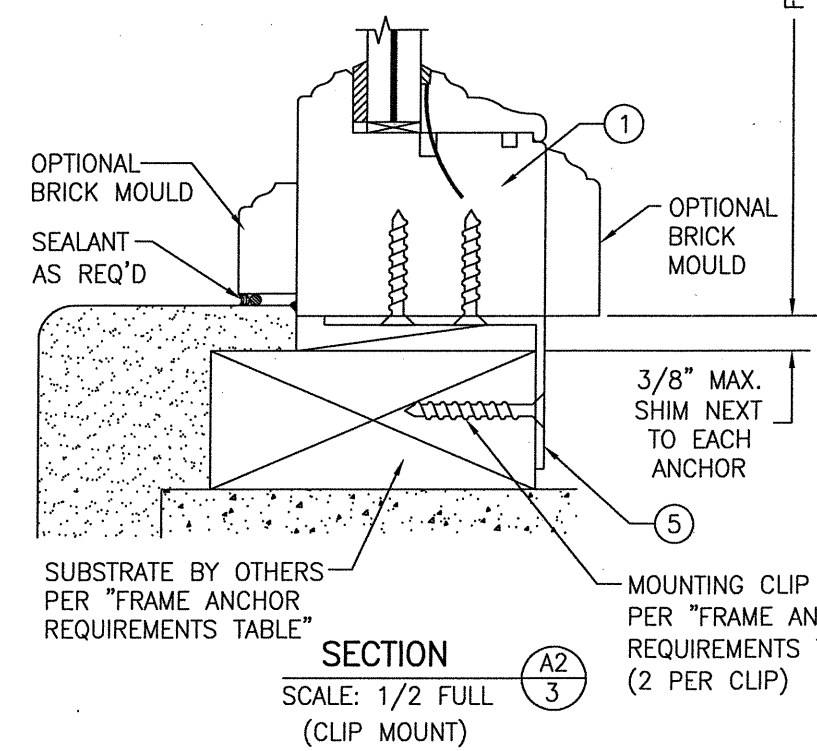
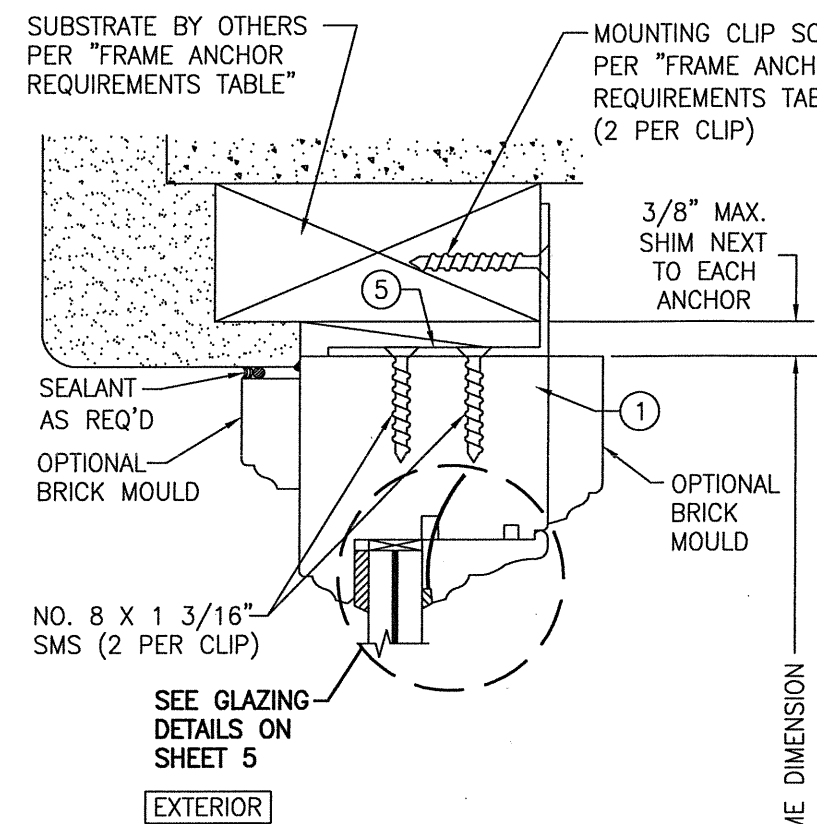
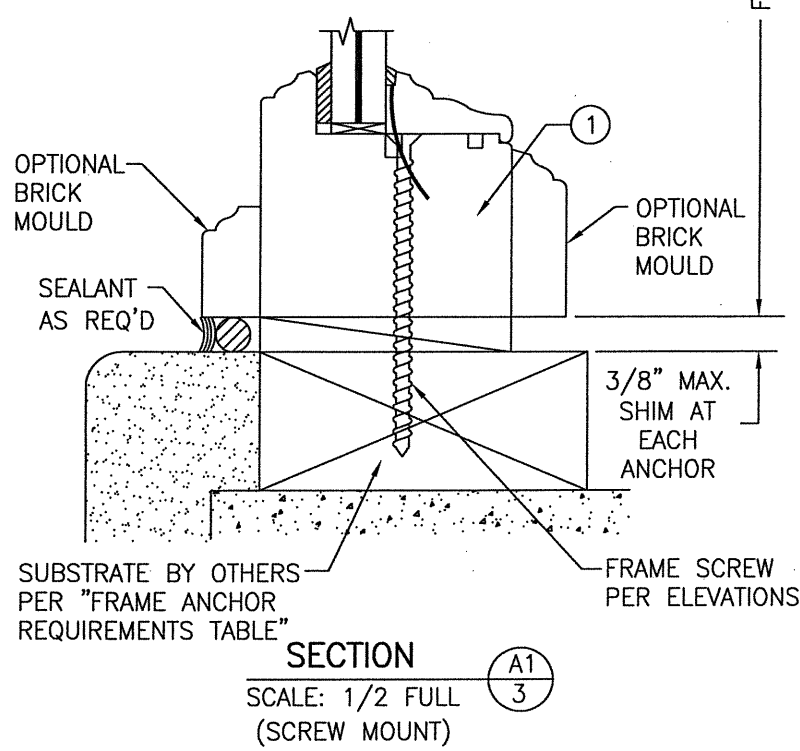
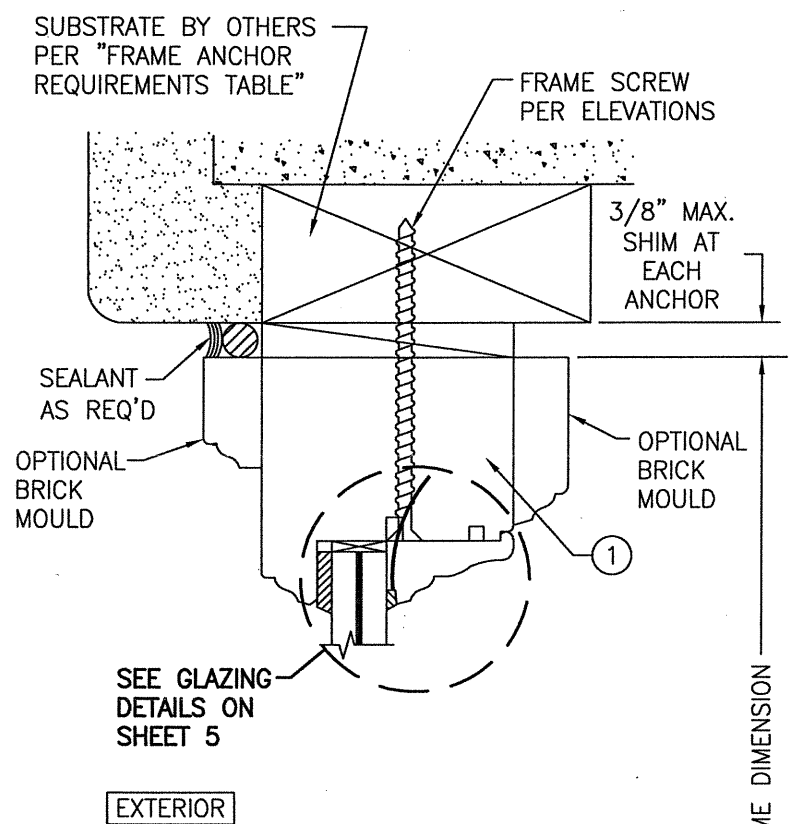
FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE GREATER THAN THE MULLION LENGTH (SEE MULLION LOAD TABLE)

(MULTIPLE UNIT NOTES ON SHEET 1 SHALL APPLY)
SEE SINGLE WINDOW ELEVATION FOR WINDOW DETAIL NOT SHOWN

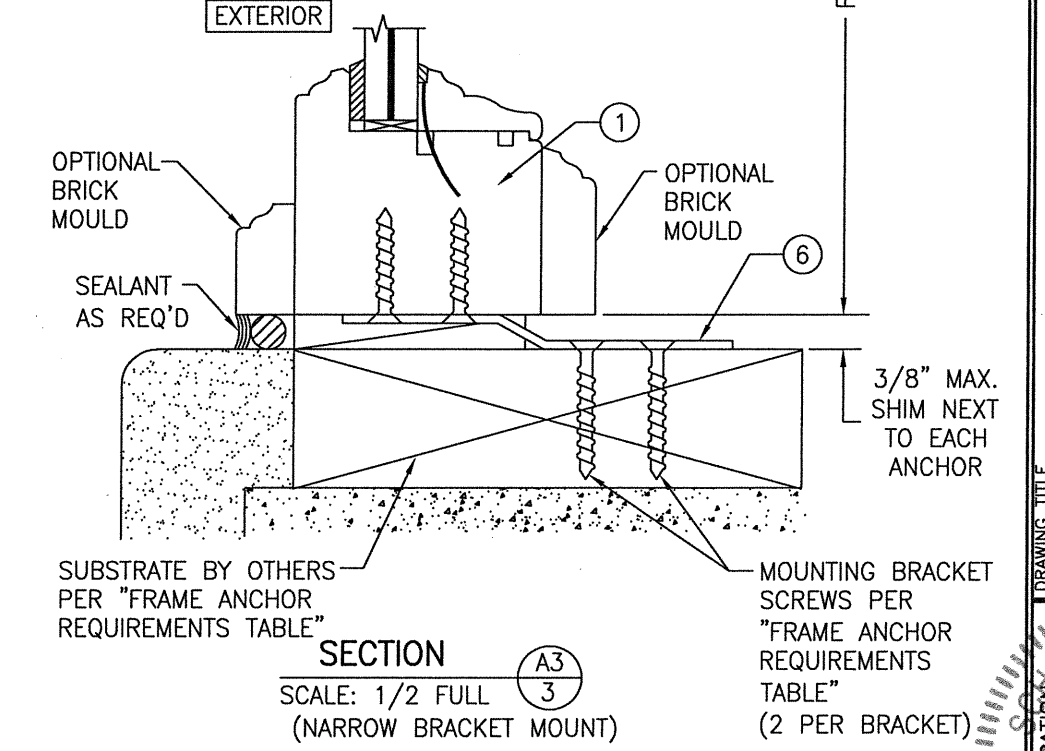
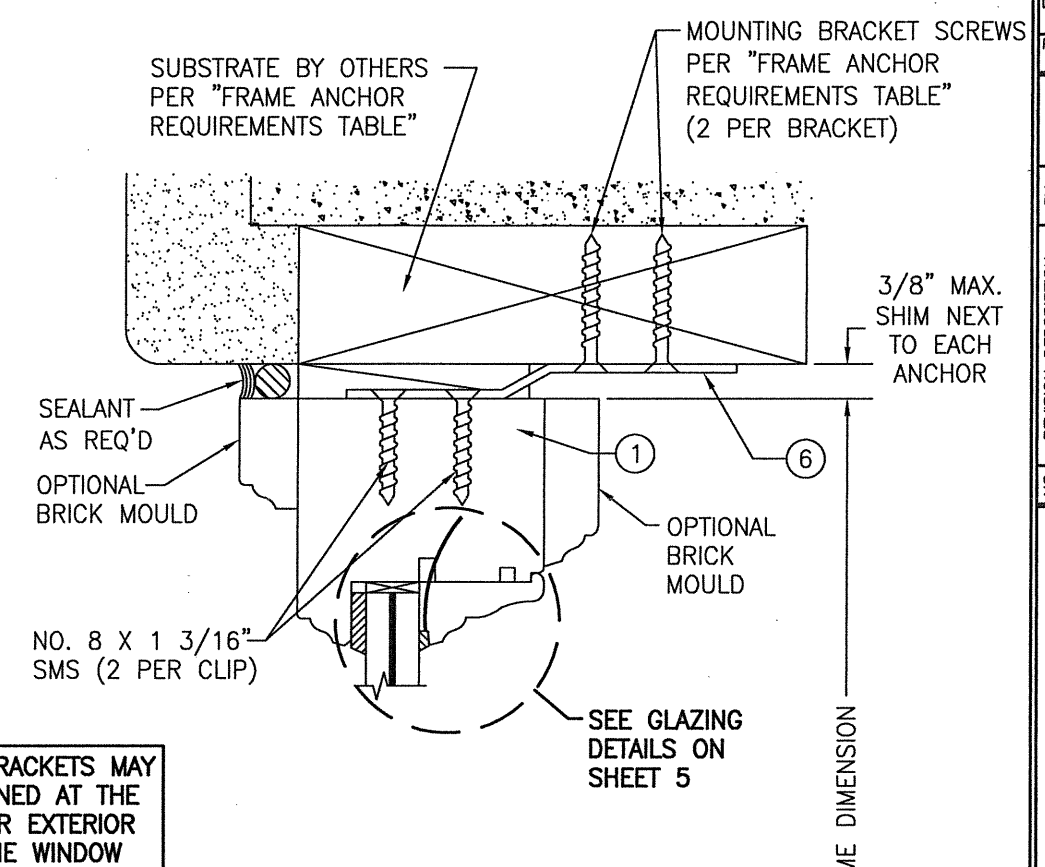
MULLION ALLOWABLE LOAD TABLE		
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF)
90	60	31.2
	54	33.3
	48	36.4
	42	40.4
	36	45.9
	30	54.1
	24	66.6
	18	75.0
84	60	39.5
	54	42.0
	48	45.5
	42	50.4
	36	57.1
	30	67.0
	24	75.0
	60	51.1
78	54	54.1
	48	58.1
	42	64.0
	36	72.3
	30	75.0
	60	68.2
	54	71.3
	48	75.0
66	60	75.0
LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.		



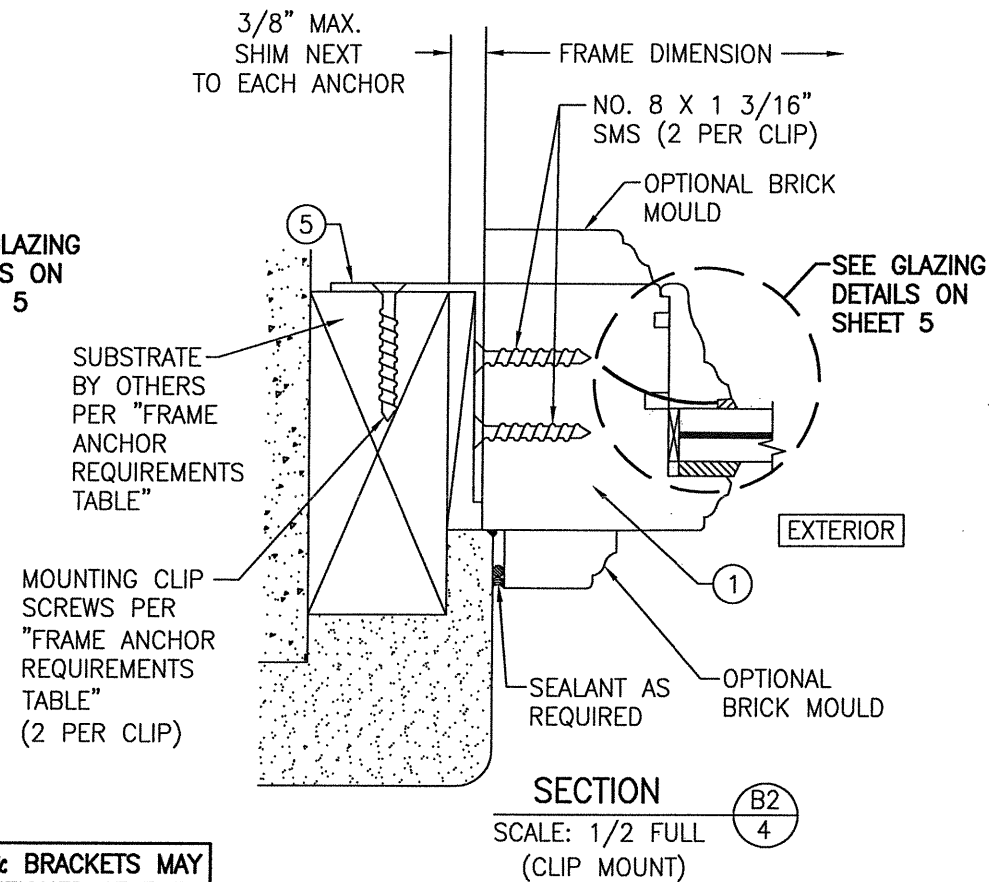
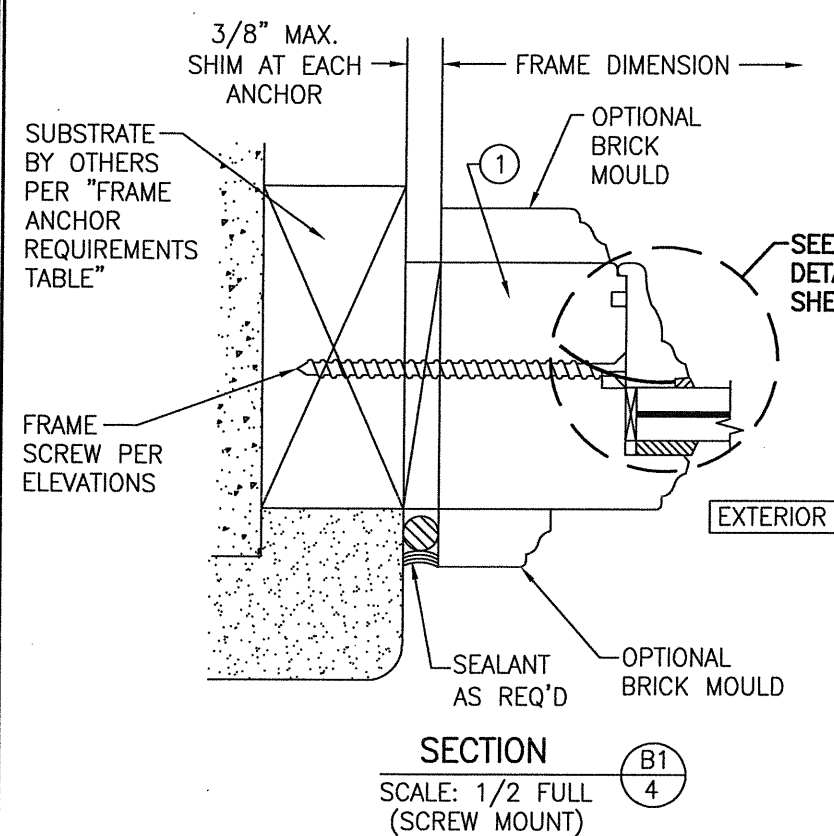
DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 3/11/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE AMERICAN & EUROPEAN DIRECT GLAZED IMPACT WOOD WINDOWS	
MANUFACTURER PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1323	REV. F
SHEET NO. 2 OF 5	



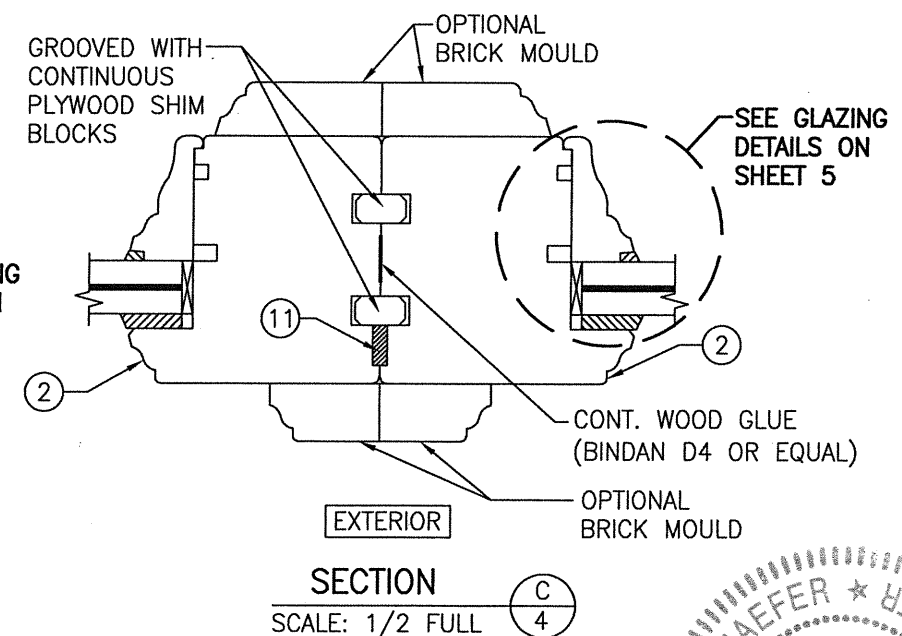
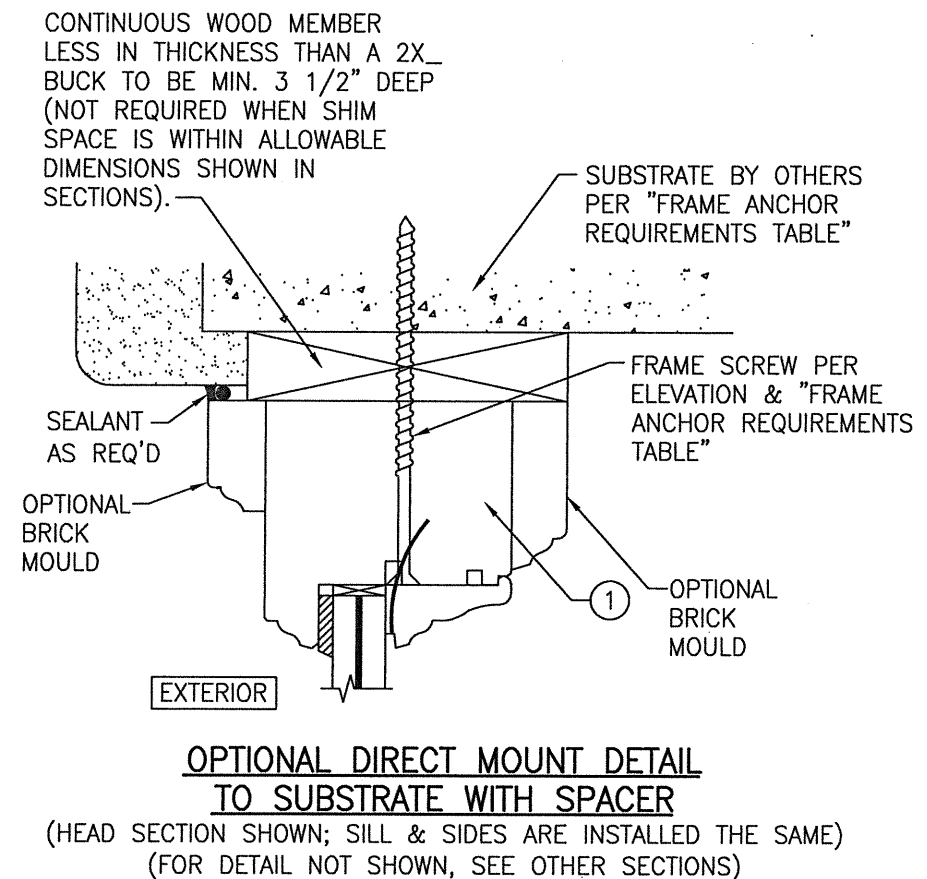
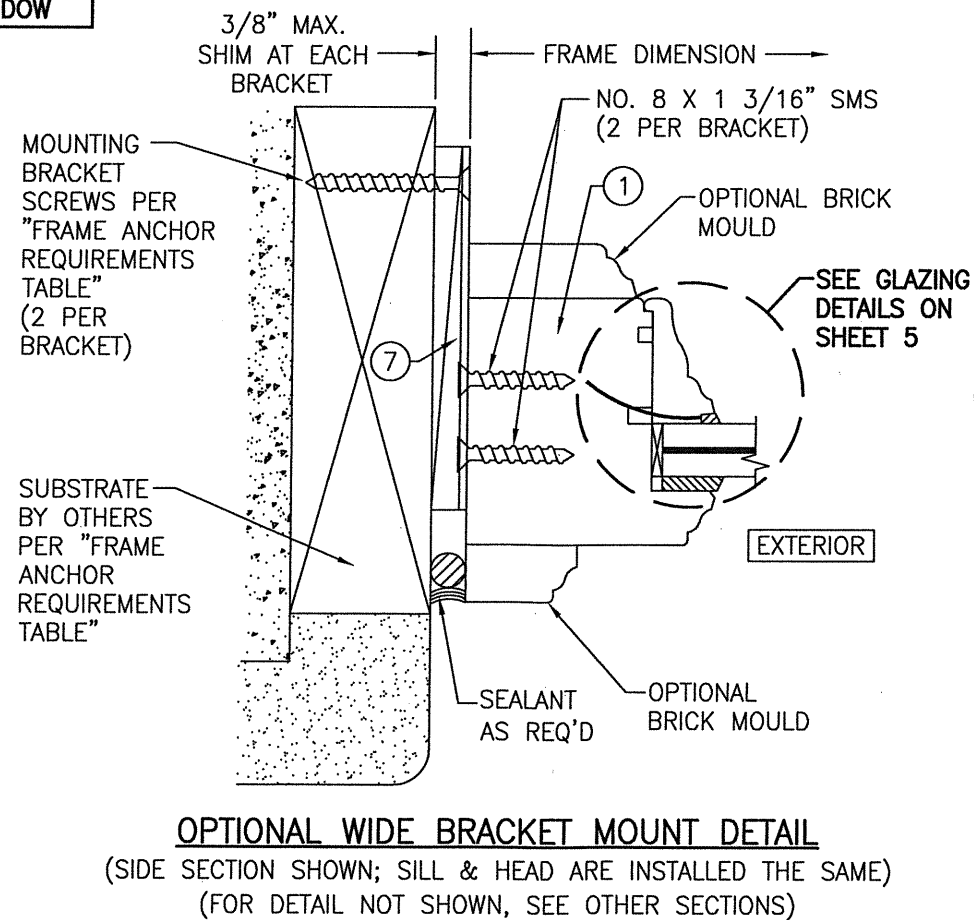
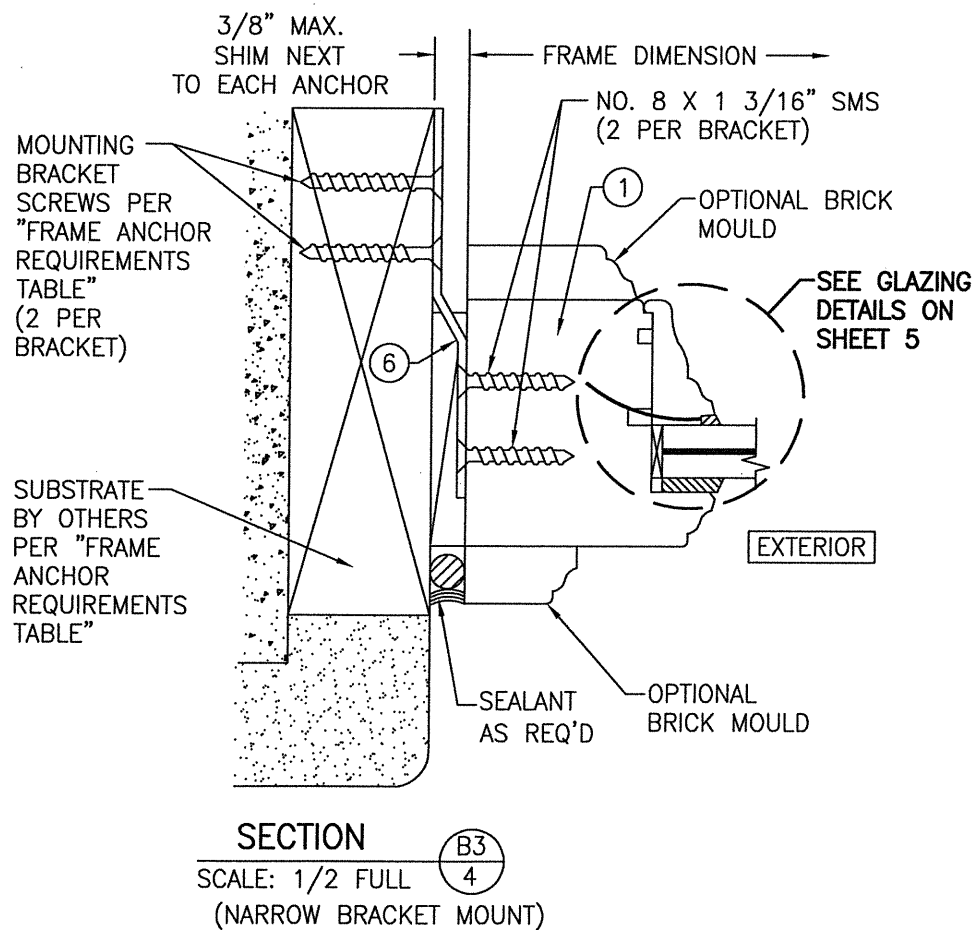
CLIPS & BRACKETS MAY BE POSITIONED AT THE INTERIOR OR EXTERIOR SIDE OF THE WINDOW



DRAWN BY: S.T.R.		CHECKED BY: WWS	
PLOT: 1=2		DATE: 3/11/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: AMERICAN & EUROPEAN DIRECT GLAZED IMPACT WOOD WINDOWS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: PEETZ WINDOWS & DOORS	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887	
CERTIFICATION: JUN 13 2005			
DRAWING NO. 1323			
SHEET NO. 3 OF 5			



CLIPS & BRACKETS MAY
BE POSITIONED AT THE
INTERIOR OR EXTERIOR
SIDE OF THE WINDOW



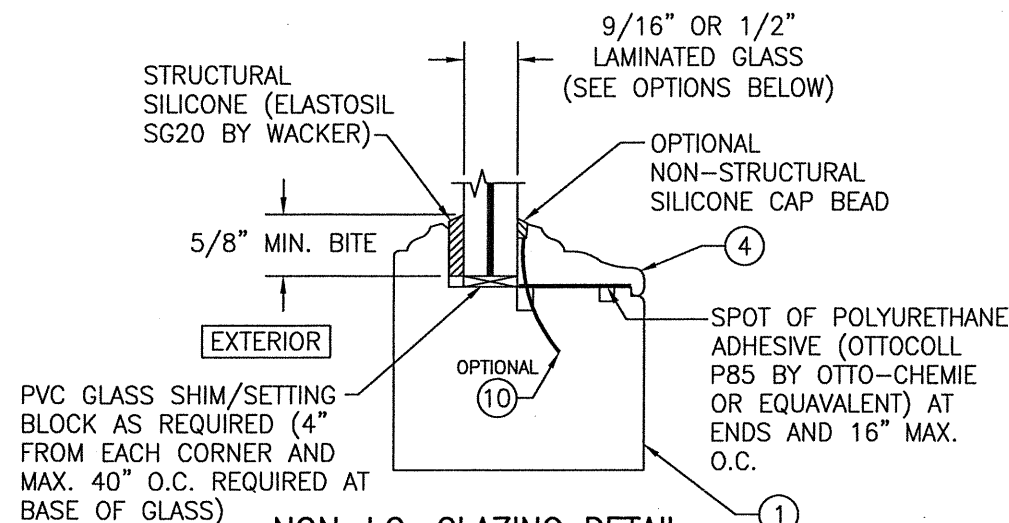
AMERICAN & EUROPEAN DIRECT GLAZED IMPACT WOOD WINDOWS

MANUFACTURER
PEETZ WINDOWS & DOORS
 15951 S.W. 41ST STREET, SUITE 150
 WESTON, FL 33331
 954-659-3887

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

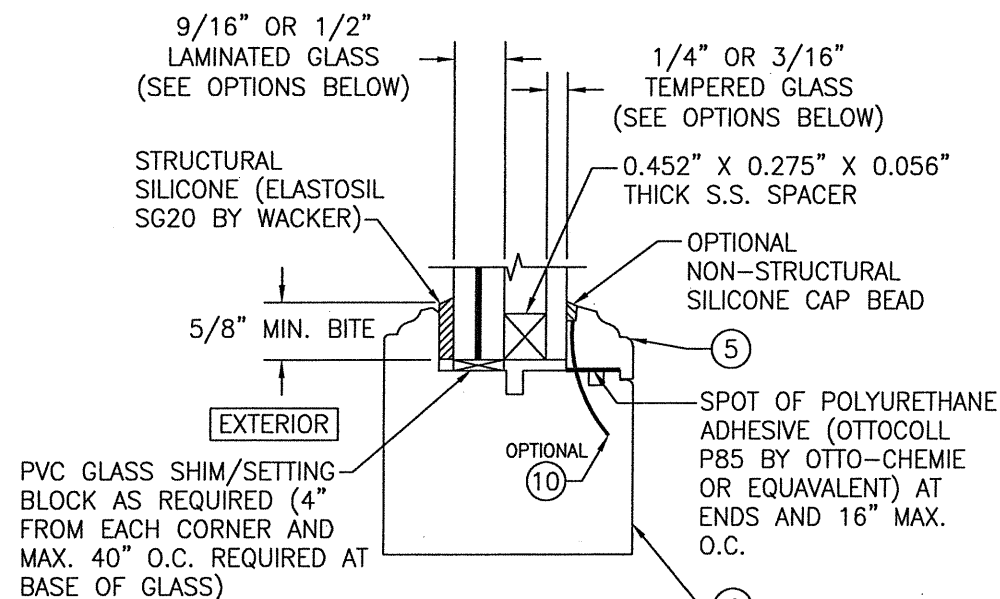
CERTIFICATION
 W. W. SCHAEFER, P.E.
 No. 44135
 STATE OF FLORIDA
 JUN 12 2020

DRAWING No. 1323
SHEET No. 4 OF 5



NON-I.G. GLAZING DETAIL

- GLASS OPTION:
1. 9/16" THICK LAMINATED GLASS (1/4" AN/0.075" EASTMAN CHEMICAL CO. "SAFLEX CP"/1/4" AN)
 2. 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.075" EASTMAN CHEMICAL CO. "SAFLEX CP"/1/4" HT. ST.)
 3. 1/2" THICK LAMINATED GLASS (3/16" AN/0.09 EASTMAN CHEMICAL CO. "SAFLEX"/1/4" AN)
 4. 1/2" THICK LAMINATED GLASS (3/16" AN/0.075" EASTMAN CHEMICAL CO. "SAFLEX CP"/1/4" AN)

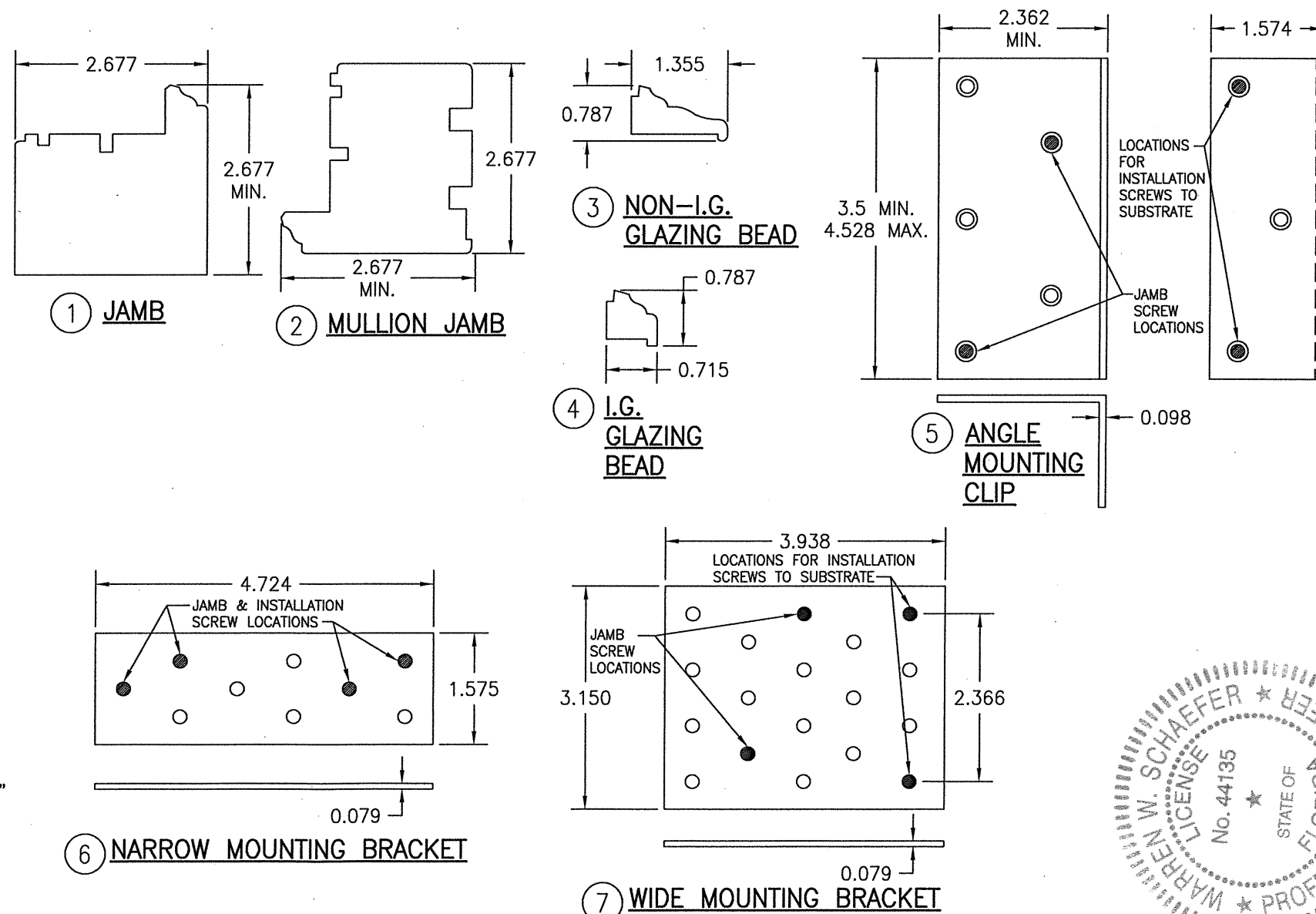


I.G. GLAZING DETAIL

- GLASS OPTION:
1. 9/16" THICK LAMINATED OUTER GLASS (1/4" AN/0.075" EASTMAN CHEMICAL CO. "SAFLEX CP"/1/4" AN); 1/4" TEMPERED SINGLE PANE INNER GLASS & 1/2" AIR SPACE
 2. 9/16" THICK LAMINATED OUTER GLASS (1/4" HT. ST./0.075" EASTMAN CHEMICAL CO. "SAFLEX CP"/1/4" HT. ST.); 1/4" TEMPERED SINGLE PANE INNER GLASS & 1/2" AIR SPACE
 3. 1/2" THICK LAMINATED OUTER GLASS (3/16" AN/0.09 EASTMAN CHEMICAL CO. "SAFLEX"/1/4" AN); 3/16" TEMPERED SINGLE PANE INNER GLASS & 1/2" AIR SPACE
 4. 1/2" THICK LAMINATED OUTER GLASS (3/16" AN/0.075 EASTMAN CHEMICAL CO. "SAFLEX CP"/1/4" AN); 3/16" TEMPERED SINGLE PANE INNER GLASS & 1/2" AIR SPACE

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB	WOOD
2	MULLION JAMB	WOOD
3	NON-I.G. GLAZING BEAD	WOOD
4	I.G. GLAZING BEAD	WOOD
5	FRAME MOUNTING CLIP	GALVANIZED 34.1 KSI STEEL OR S.S.
6	NARROW MOUNTING BRACKET	GALVANIZED 34.1 KSI STEEL OR S.S.
7	WIDE MOUNTING BRACKET	GALVANIZED 34.1 KSI STEEL OR S.S.
FASTENERS		
10	OPTIONAL 18 GA. X 1 1/4" GALVANIZED CURVED NAIL	10" FROM CORNERS & 20" O.C.
FASTENERS		
11	3/8" X 3/16" PRECOMPRESSED TAPE	ILLBRUCK WILLSEAL 600 OR EQUAL

NOTE: WOOD USED IN TESTING WAS MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.46 AND A MODULUS OF ELASTICITY OF E = 1,500,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.46 AND MODULUS OF ELASTICITY OF 1,500,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PEETZ WINDOWS & DOORS TO SELECT.



DRAWN BY: WWS		CHECKED BY: WWS	
PLOT: 1=2		DATE: 12/08/04	
DATE	BY	REVISION	DESCRIPTION
NO.	NO.	NO.	NO.
DRAWING TITLE: AMERICAN & EUROPEAN DIRECT GLAZED IMPACT WOOD WINDOWS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
MANUFACTURER: PEETZ WINDOWS & DOORS			
15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887			
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
WARREN W. SCHAEFER P.E. NO. 44135			
DRAWING NO. 1323			
SHEET NO. 5 OF 5			