

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 Kd = 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/GA 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.

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/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"
MIN. 16 GA. 33 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"
(3) C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"

INSTALLATION CLIP SCREWS

(2) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 3/8"	3/4"
MIN. 16 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"
(3) C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"

BTI BRACKET SCREWS

(2) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW	1 3/8"	3/4"
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"

ANGLE CLIP SCREWS

MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW	1 5/16"	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.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) 2X_ BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS
- (3) CMU IS NOT APPLICABLE AT HEAD OR 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.

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.

ALLOWABLE DESIGN PRESSURE
(ALL WINDOW CONDITIONS)

+/-70 PSF

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: W.W.M.		CHECKED BY: W.W.S.	
PLT:	DATE:	PLT:	DATE:
1=24	07/02/12		
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO CURENT STANDARDS	W.W.S.	07/21/17
B1	CHANGE TO FLORIDA APPROVAL	W.W.S.	12/06/21
C1	UPDATE WOOD PROPERTIES	W.W.S.	06/18/23

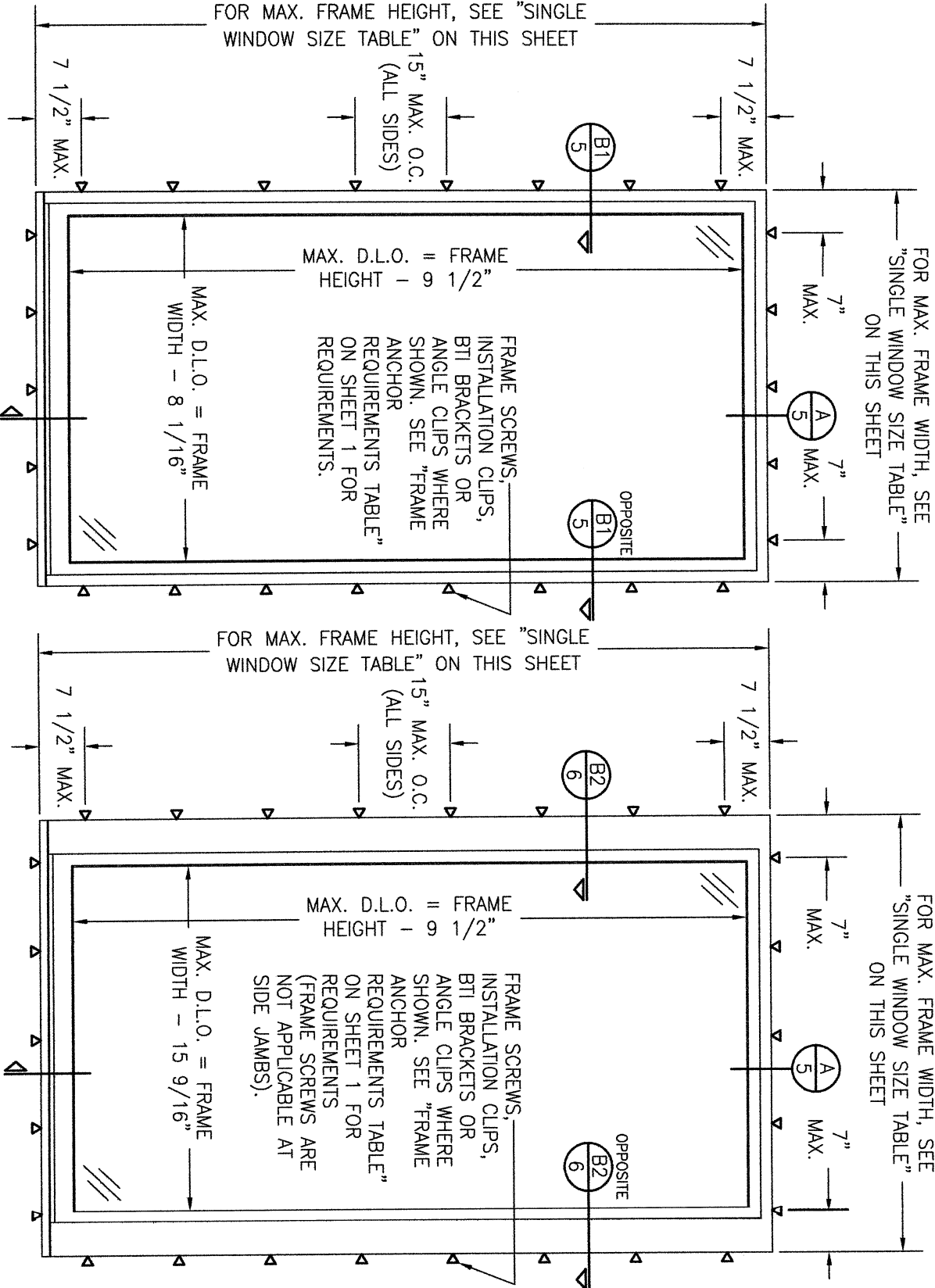
DRAWING TITLE	
DOUBLE HUNG FIXED IMPACT WINDOW	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

CERTIFICATION	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1829	REV. C
SHEET NO. 1	OF 9

SINGLE WINDOW SIZE TABLE

CONCEALED BALANCE WINDOWS				WEIGHT & CHAIN WINDOWS			
GLASS OPTIONS 1 OR 2		GLASS OPTION 3		GLASS OPTIONS 1 OR 2		GLASS OPTION 3	
MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)
144	31	144	55	144	38	144	62
132	33	132	59	132	40	132	66
120	36	120	65	120	43	120	72 9/16
108	39			108	46		
96	43			96	50		
90	46			90	53		
84	49			84	56		
78	53			78	60		
72	57			72	64		
66	62			66	70		
64	65			63	72 9/16		

1. DIMENSIONS SHOWN ARE +/-1/2".
2. SEE GLAZING DETAILS FOR GLASS OPTIONS.



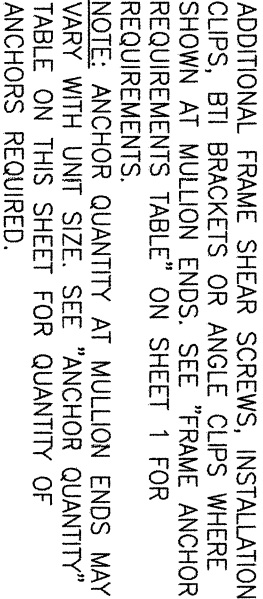
EXTERIOR ELEVATION:
SINGLE WINDOW WITH CONCEALED
BALANCE WINDOW FRAME MEMBERS
SCALE: 1/2" = 1'-0"

EXTERIOR ELEVATION:
SINGLE WINDOW WITH WEIGHT &
CHAIN WINDOW FRAME MEMBERS
SCALE: 1/2" = 1'-0"

DRAWING TITLE DOUBLE HUNG FIXED IMPACT WINDOW		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600	
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. REV. 1829 C		SHEET NO. 2 OF 9	

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.			
PLOT: 1=24	DATE: 07/02/12			
NO.	REVISION	DESCRIPTION	BY	DATE

MAX. WINDOW FRAME HEIGHT (IN.)	MAX. LOAD WIDTH (IN.)	INSTALLATION METHOD & ANCHOR QUANTITIES			
		FRAME SCREWS	INSTALLATION CLIPS	ANGLE CLIPS	BTI BRACKETS
120	65	8	6	6	4
	54	6	6	4	4
	48	6	4	4	4
	37	4	4	4	4
108	65	8	6	6	4
	60	6	6	4	4
	48	6	4	4	4
	42	4	4	4	4
96	65	6	4	4	4
	48	4	4	4	4
	65	6	4	4	4
	54	4	4	4	4
72	65	6	4	4	4
	63	4	4	4	4
	65	4	4	4	4
	70	65	4	4	4



FRAME MEMBERS
SCALE: 1/2" = 1'-0"



MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.

DRAWING TITLE	
DOUBLE HUNG FIXED IMPACT WINDOW	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

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

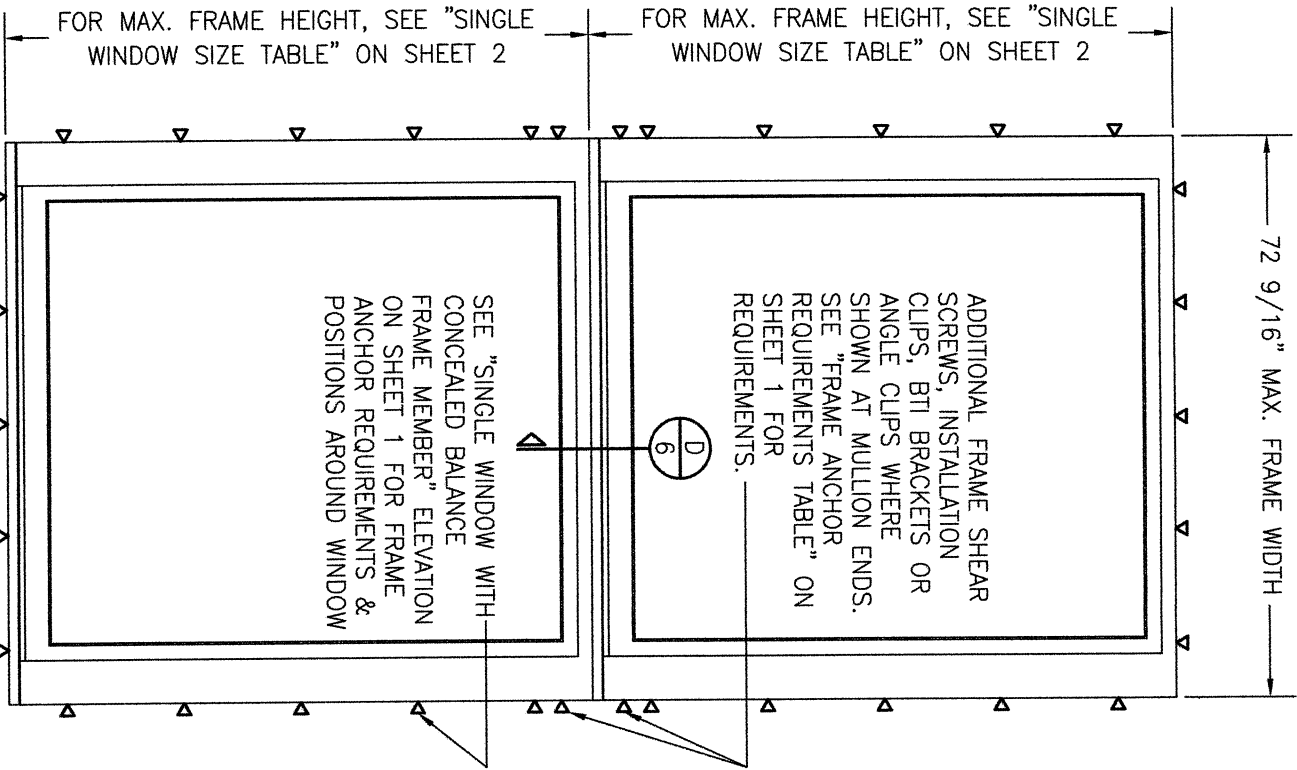
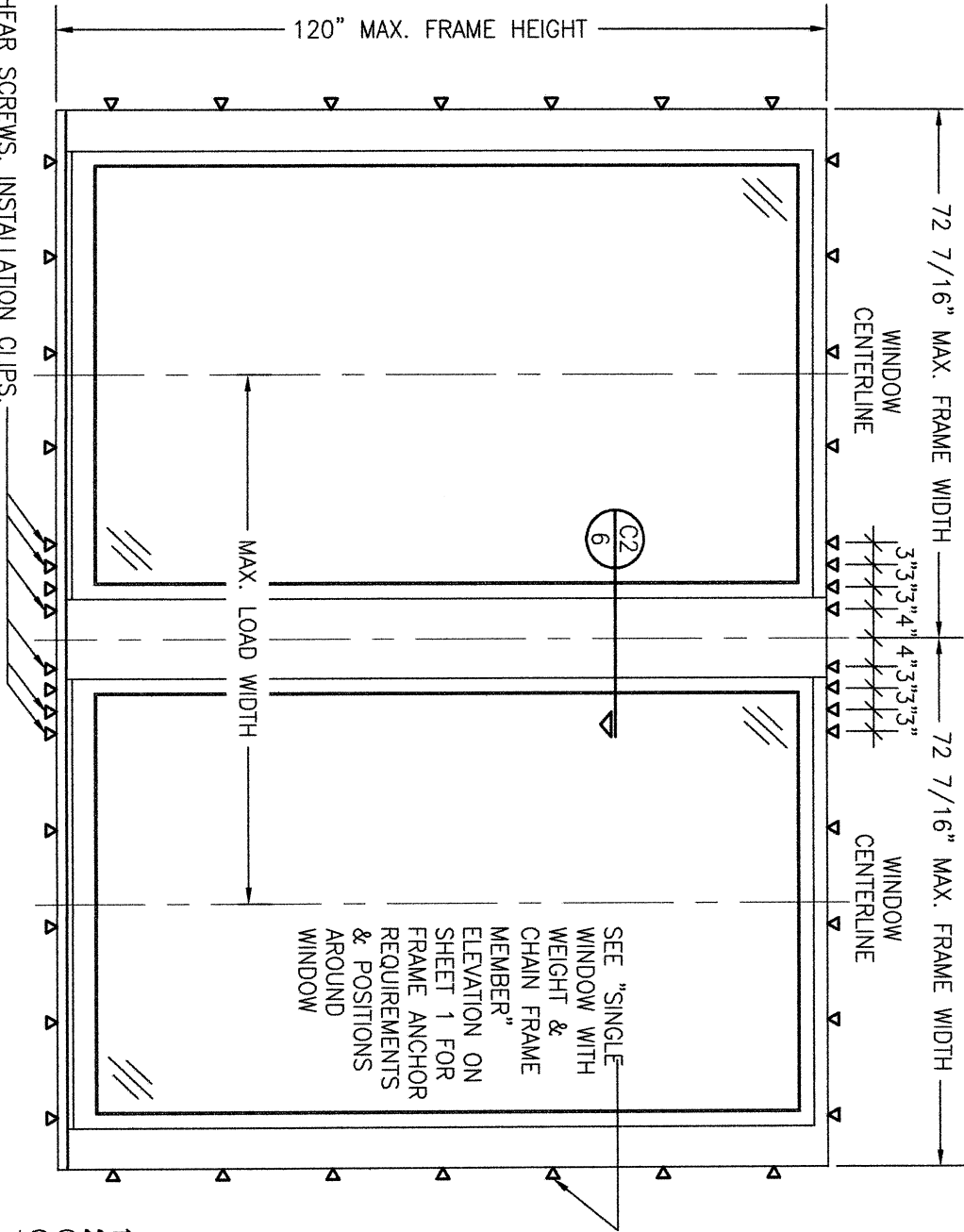
DOUBLE HUNG FIXED IMPACT WINDOW

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

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
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DRAWING NO.	REV.
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VERTICAL MULLION END ANCHOR QUANTITIES (WEIGHT & CHAIN FRAME MEMBER WINDOWS)					
MAX. WINDOW FRAME HEIGHT (IN.)	MAX. LOAD WIDTH (IN.)	INSTALLATION METHOD & ANCHOR QUANTITIES			
		FRAME SCREWS	INSTALLATION CLIPS	ANGLE CLIPS	BTI BRACKETS
120	72 1/2	8	6	6	4
	60	6	6	6	4
	48	6	4	4	4
	39	4	4	4	4
108	72 1/2	8	6	6	4
	60	6	4	4	4
	44	4	4	4	4
96	72 1/2	6	6	6	4
	66	6	4	4	4
	60	6	4	4	4
	49	4	4	4	4
84	72 1/2	6	4	4	4
	56	4	4	4	4
72	72 1/2	6	4	4	4
	66	4	4	4	4
	72 1/2	4	4	4	4



MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.

**EXTERIOR ELEVATION:
VERTICALLY STACKED FIXED WINDOWS
WITH WEIGHT & CHAIN WINDOW FRAME
MEMBERS**

SCALE: 1/2" = 1'-0"

ADDITIONAL FRAME SHEAR SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.
NOTE: ANCHOR QUANTITY AT MULLION ENDS MAY VARY WITH UNIT SIZE. SEE "ANCHOR QUANTITY" TABLE ON THIS SHEET FOR QUANTITY OF ANCHORS REQUIRED.

**EXTERIOR ELEVATION:
SIDE-BY-SIDE FIXED WINDOWS
WITH WEIGHT & CHAIN WINDOW
FRAME MEMBERS**

SCALE: 1/2" = 1'-0"

DOUBLE HUNG FIXED IMPACT WINDOW

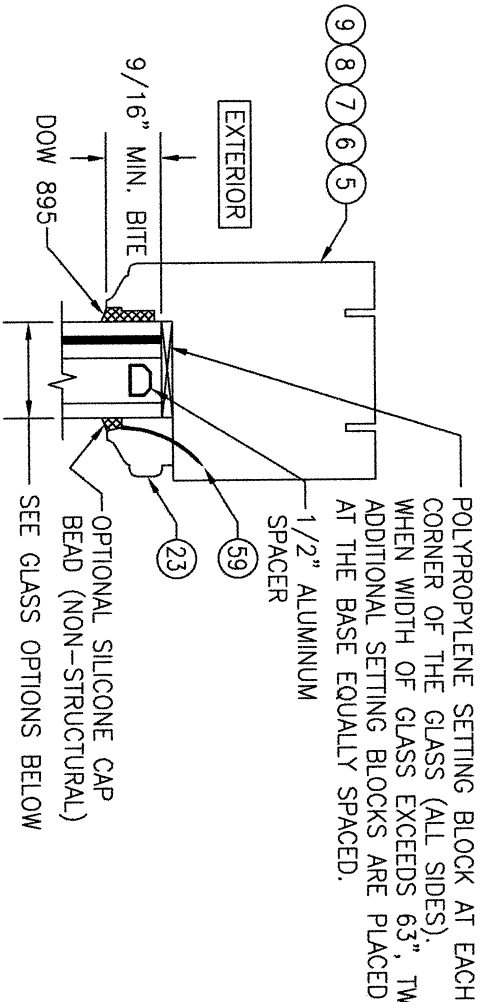
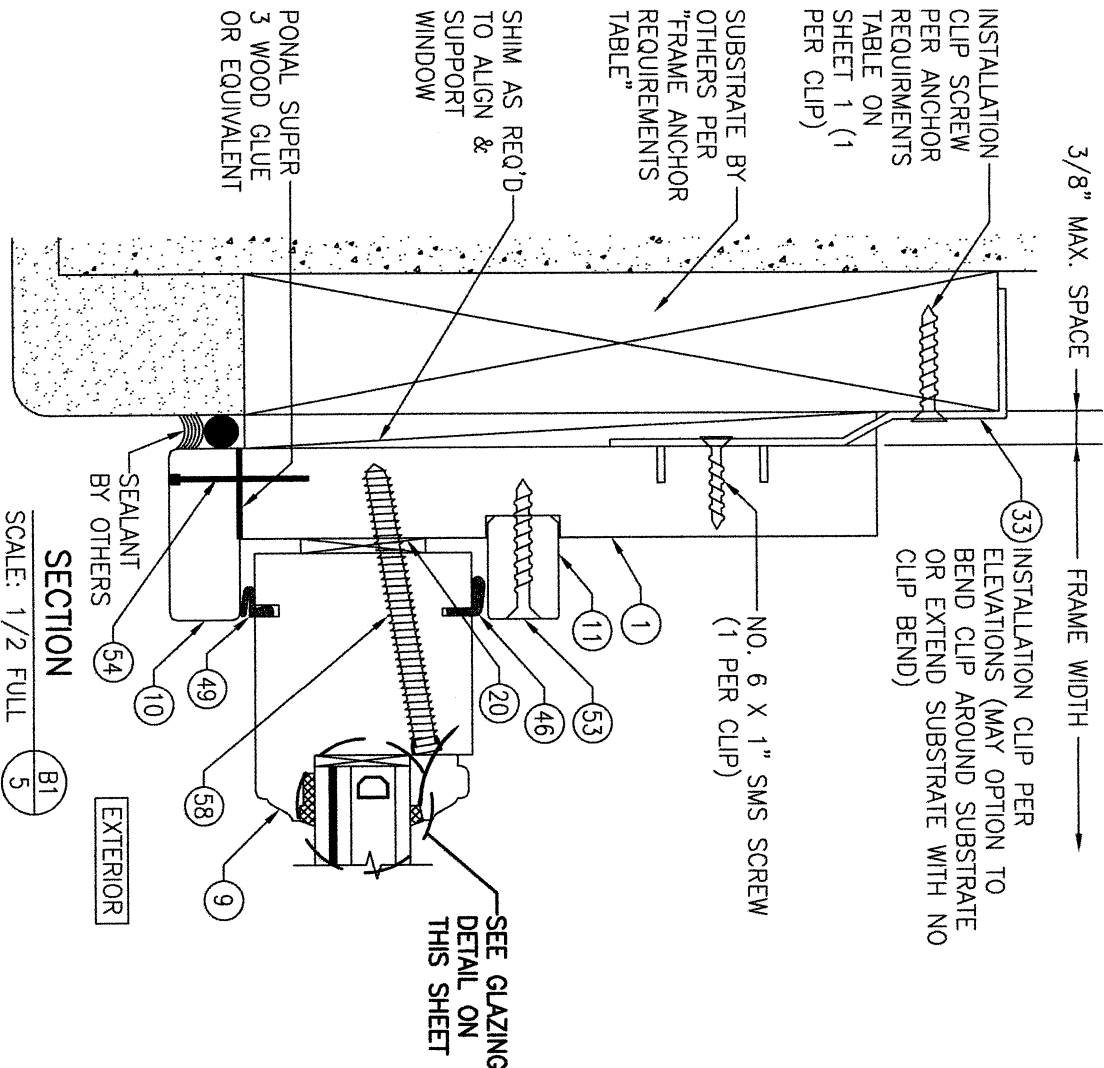
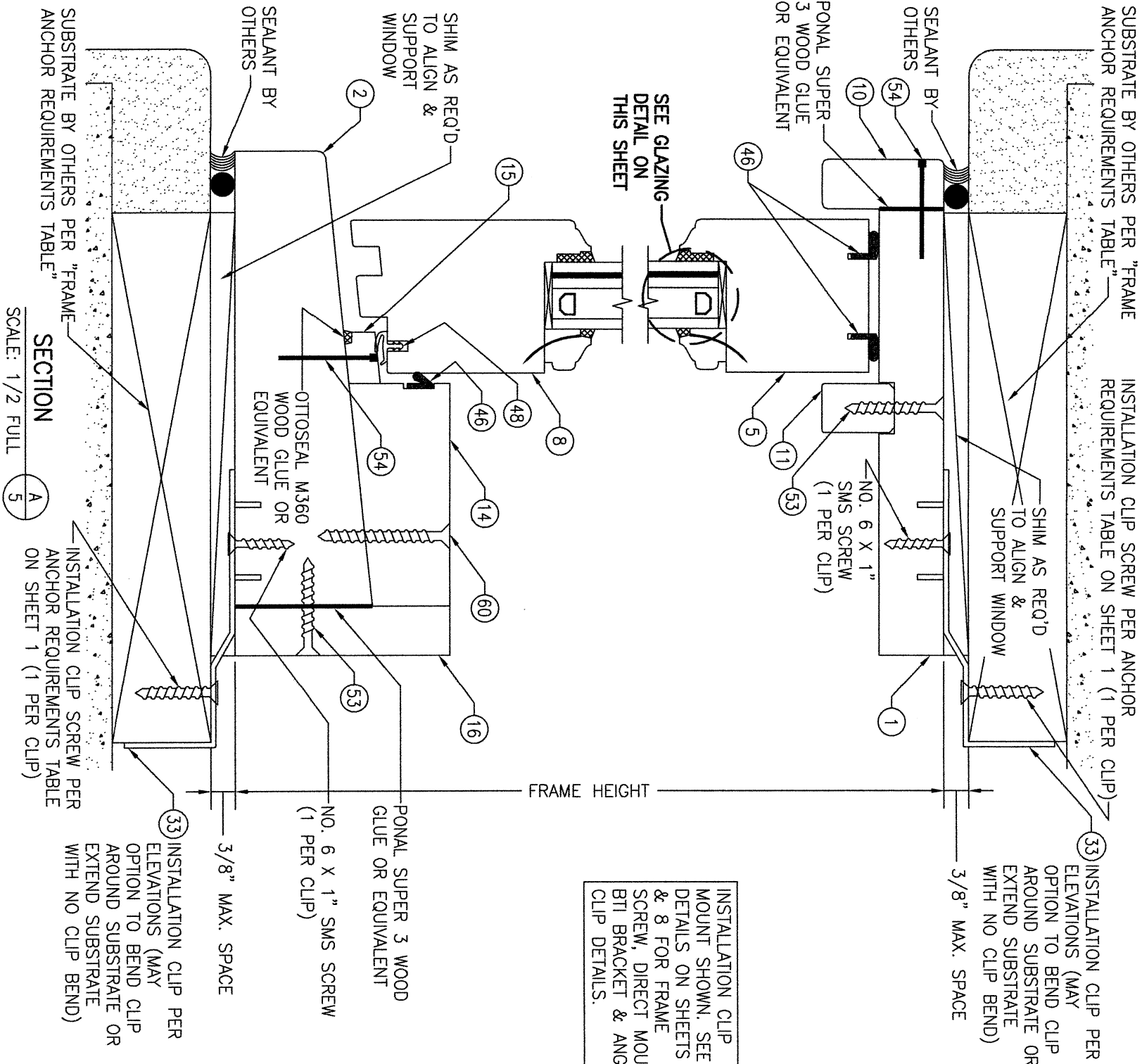
DRAWING TITLE
CONSULTANTS
**W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)**
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
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MANUFACTURER
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SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT
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P.E. NO. 44135

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TYPICAL GLAZING DETAIL

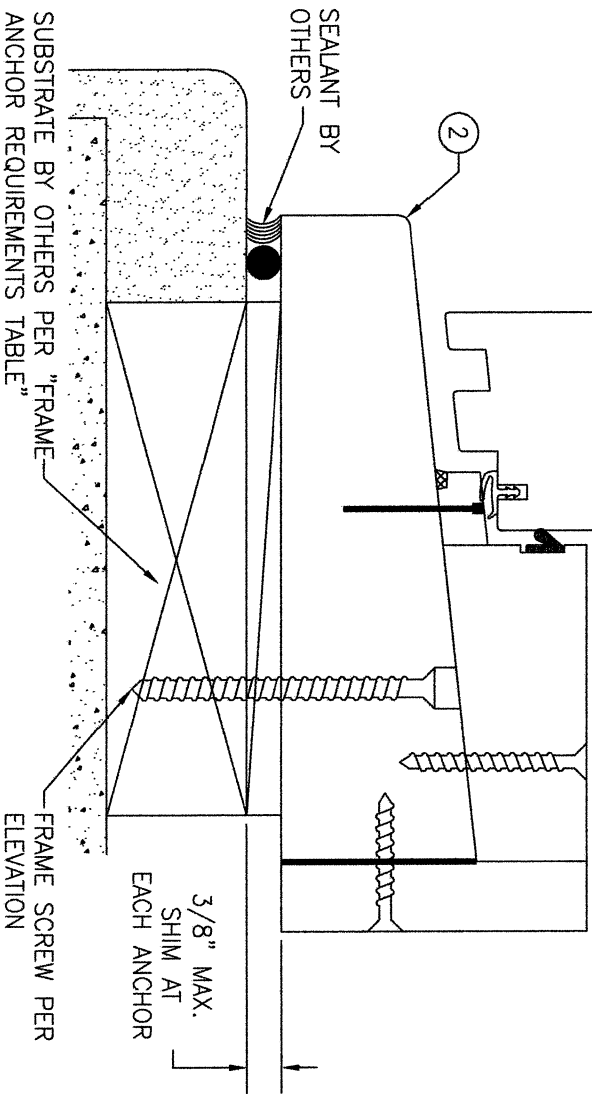
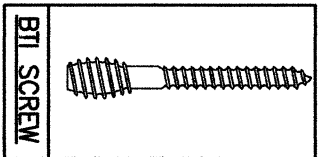
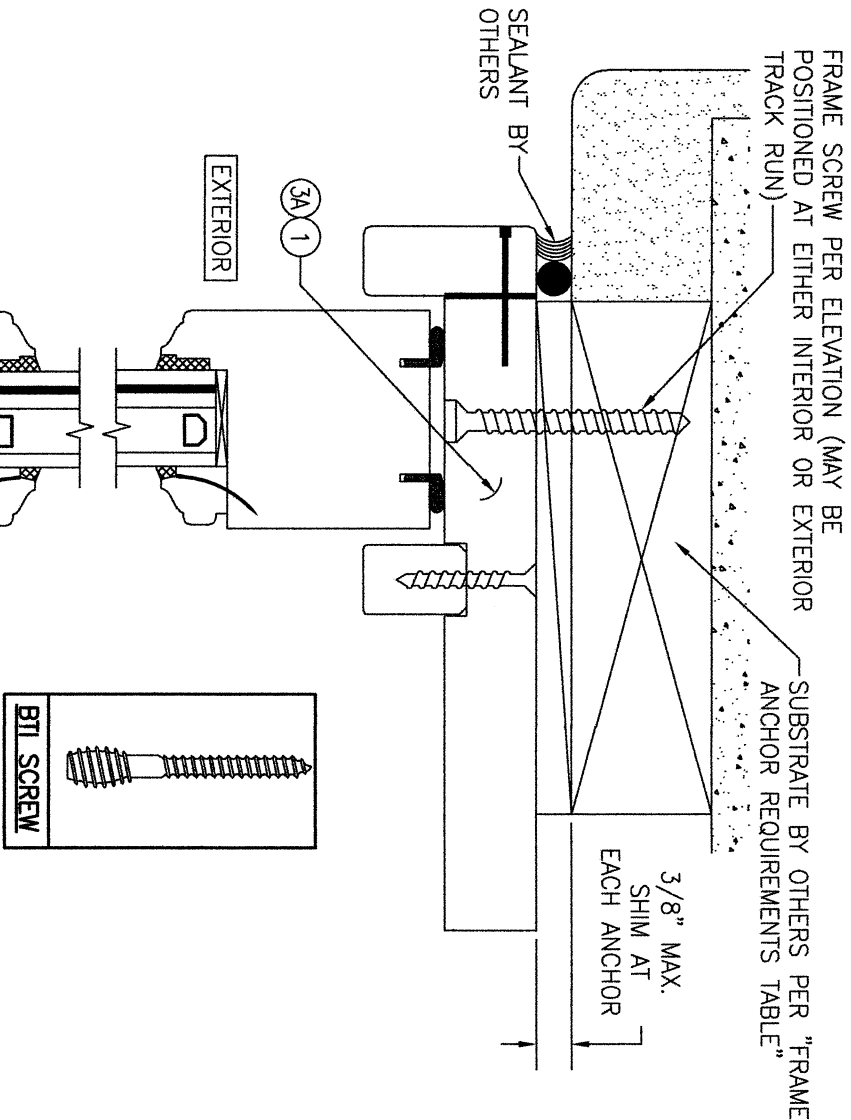
GLASS OPTION 1: 1 1/8" LAMINATED I.G. (3/16" AN./0.075" EASTMAN CHEM. CO. SAFLEX CP/3/16" AN. EXTERIOR; 1/2" AIR SPACE/3/16" AN. INTERIOR)

GLASS OPTION 2: 1 1/8" LAMINATED I.G. (3/16" AN./0.075" EASTMAN CHEM. CO. SAFLEX CP/3/16" AN. EXTERIOR; 1/2" AIR SPACE/3/16" TEMP. INTERIOR)

GLASS OPTION 3: 1 1/8" LAMINATED I.G. (3/16" HT. ST./0.075" EASTMAN CHEM. CO. SAFLEX CP/3/16" HT. ST. EXTERIOR; 1/2" AIR SPACE/3/16" TEMP. INTERIOR)

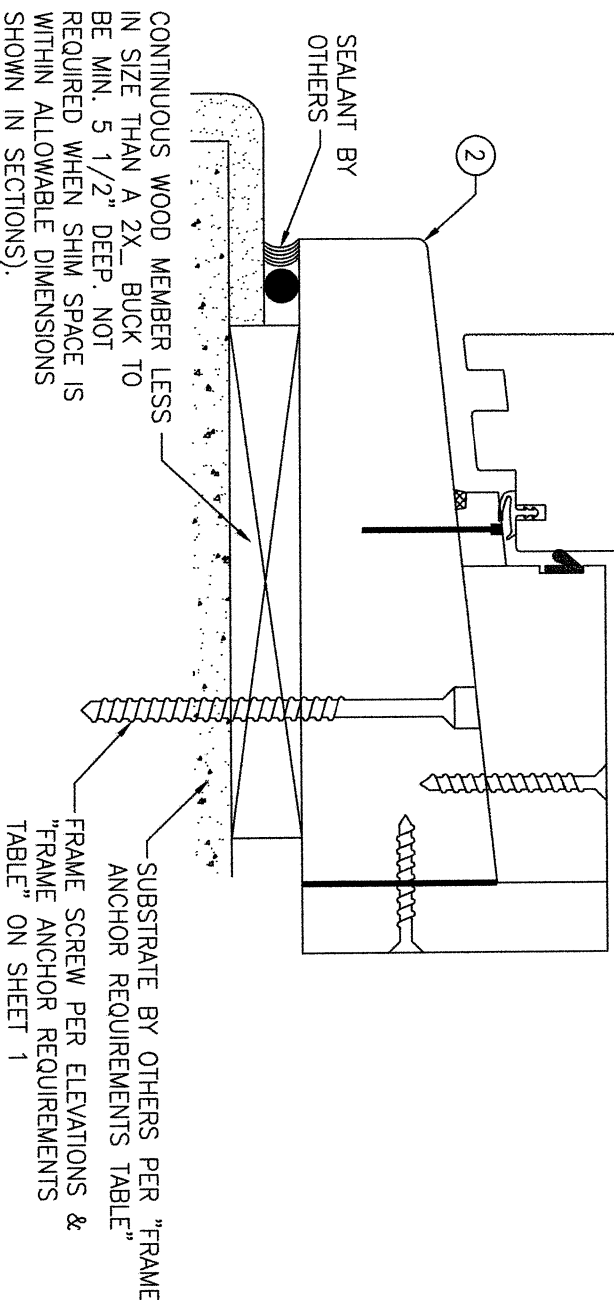
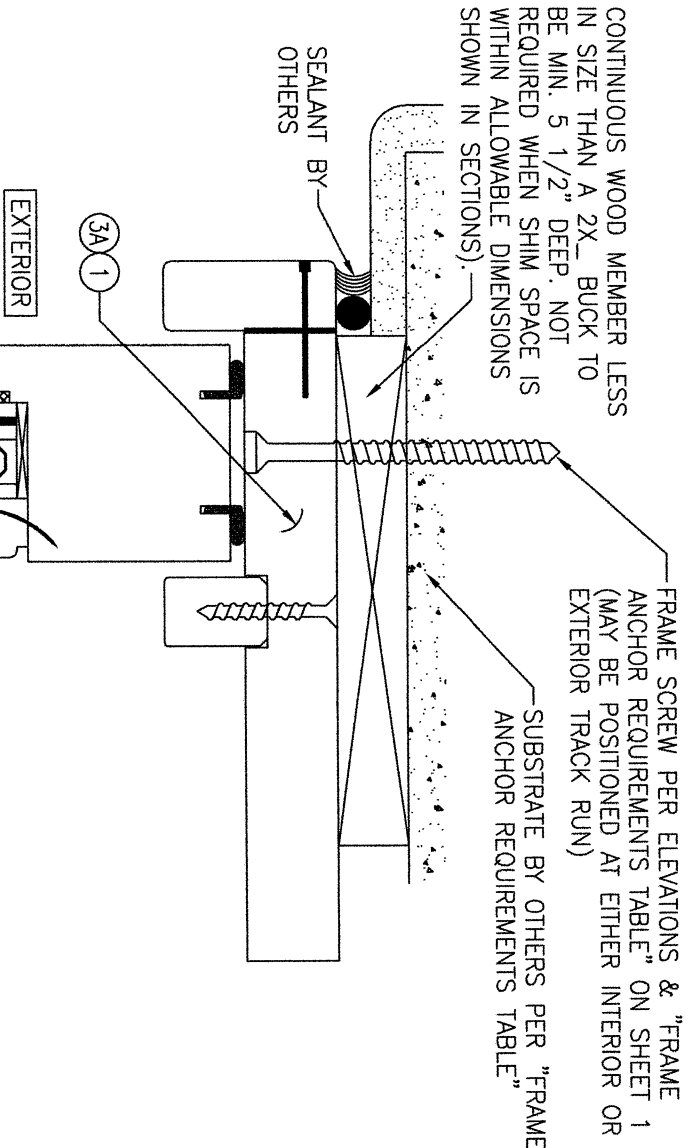
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DRAWING NO.	REV.	CERTIFICATION	DRAWING TITLE	CONSULTANTS	MANUFACTURER
1829	C	WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DOUBLE HUNG FIXED IMPACT WINDOW	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600



OPTIONAL FRAME SCREW INSTALLATION DETAIL

(FRAME SCREW IS NOT APPLICABLE AT JAMBS WITH WEIGHT & CHAIN FRAME MEMBER JAMBS; CONCEALED FRAME MEMBER JAMBS ARE INSTALLED THE SAME AS THE HEAD DETAIL SHOWN)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(WOOD SCREW SHOWN; BTI SCREW ALSO APPLIES)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

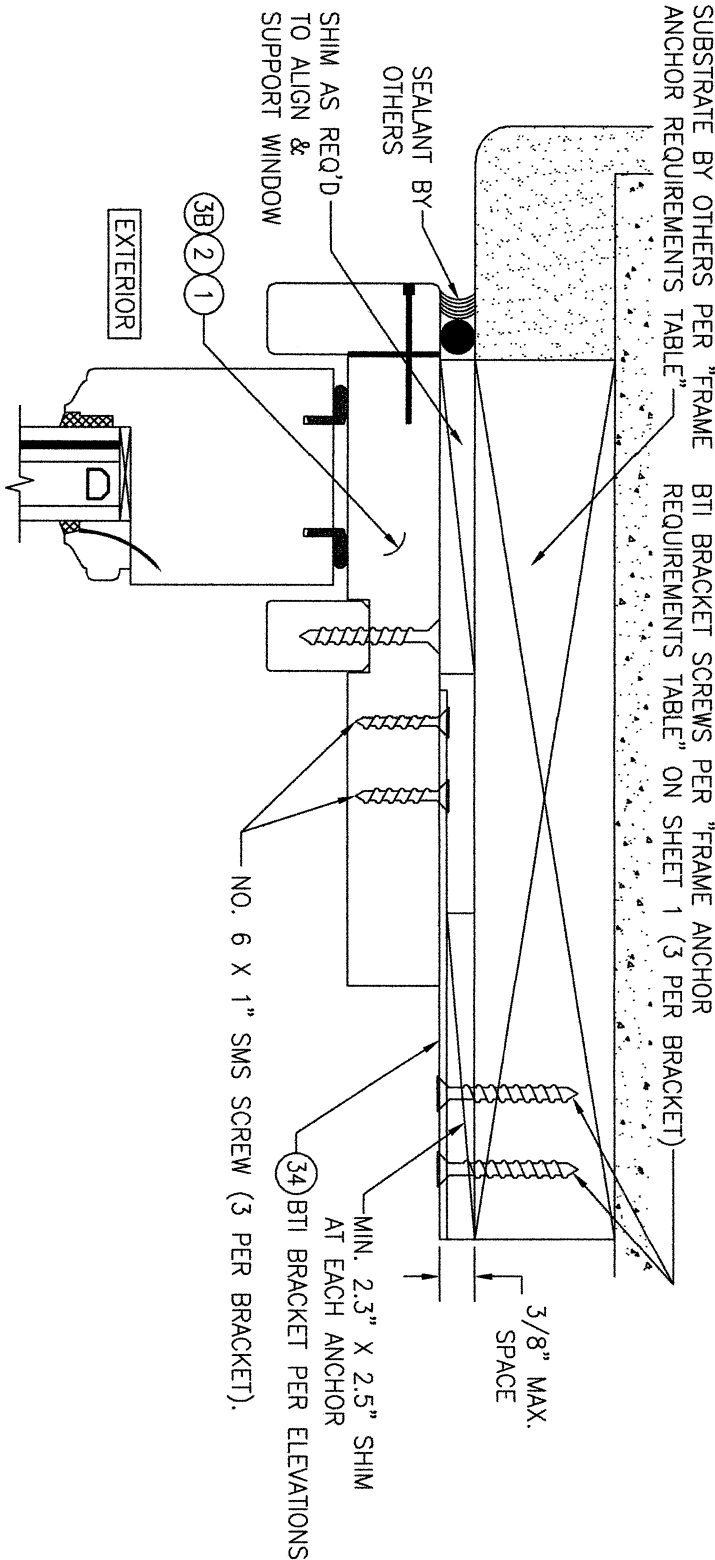
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(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE	CONSULTANTS	MANUFACTURER
DOUBLE HUNG FIXED IMPACT WINDOW	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

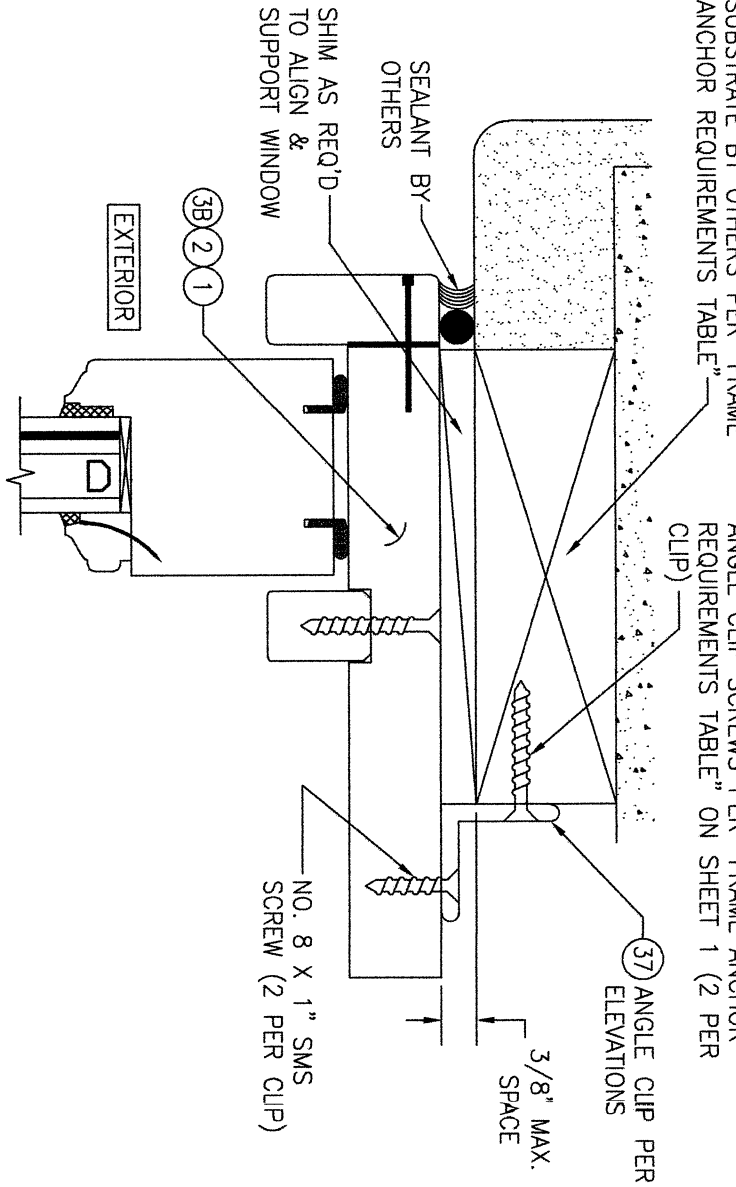
CERTIFICATION
WARREN W. SCHAEFER, P.E. P.E. NO. 44135

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1829	C
SHEET NO.	OF
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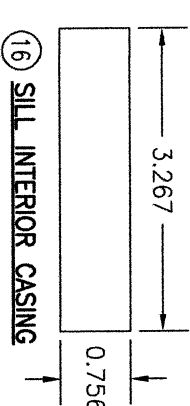
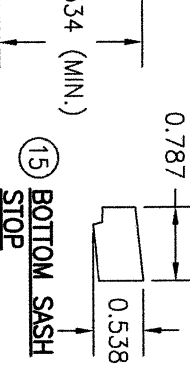
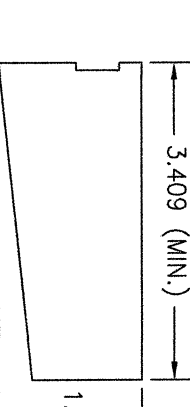
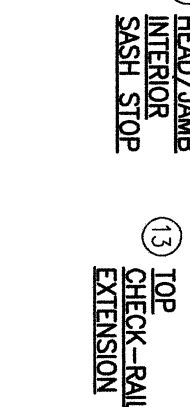
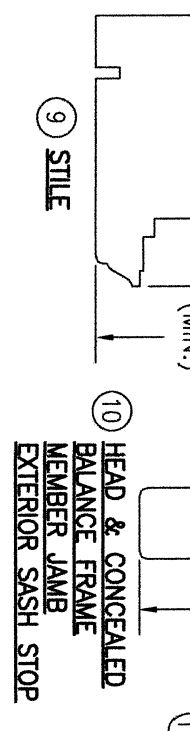
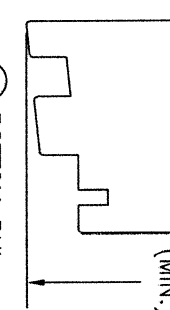
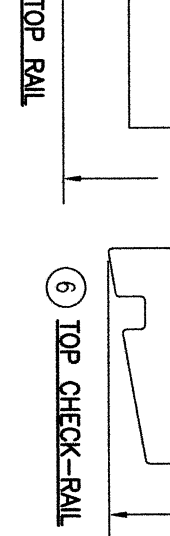
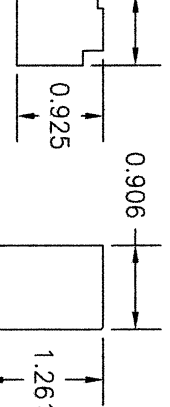
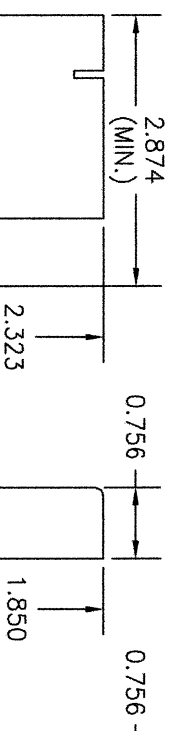
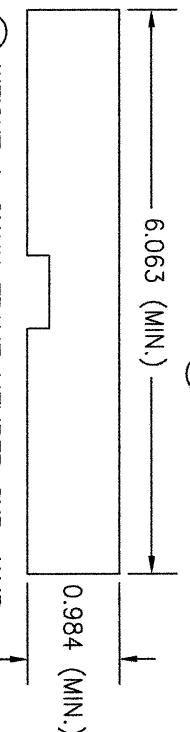
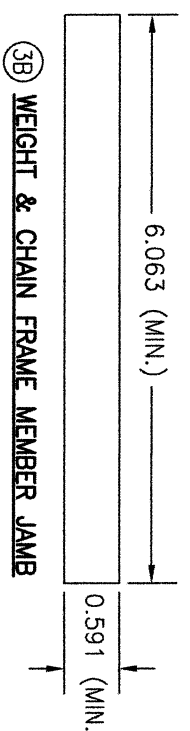
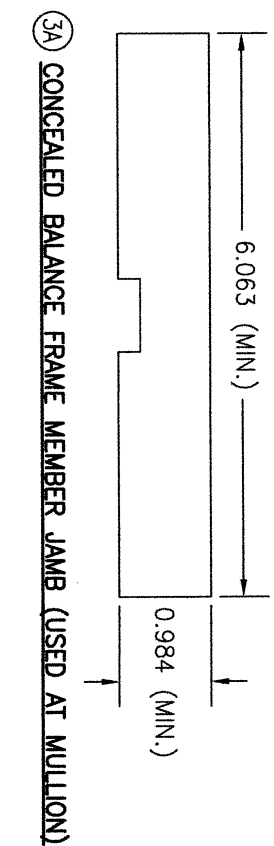
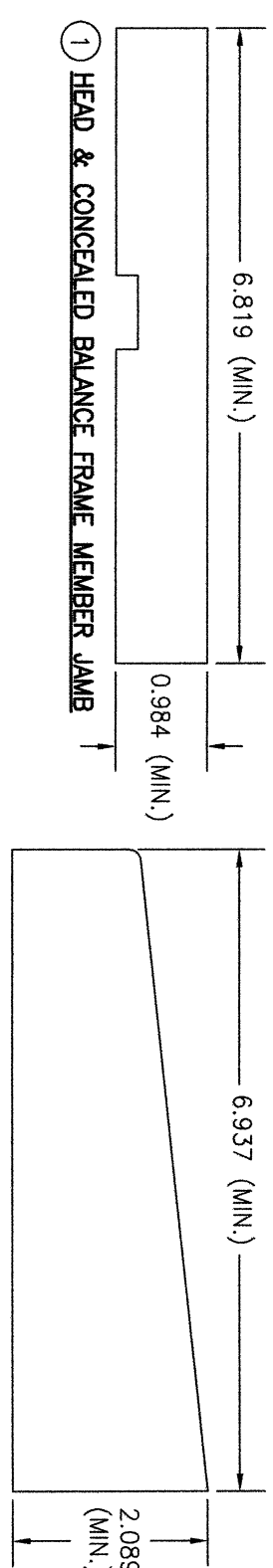


OPTIONAL BT BRACKET INSTALLATION DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

**SEE PART #34 BT BRACKET
DETAIL ON SHEET 9 FOR SCREW
LOCATIONS THROUGH BRACKET**



OPTIONAL ANGLE CLIP INSTALLATION DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



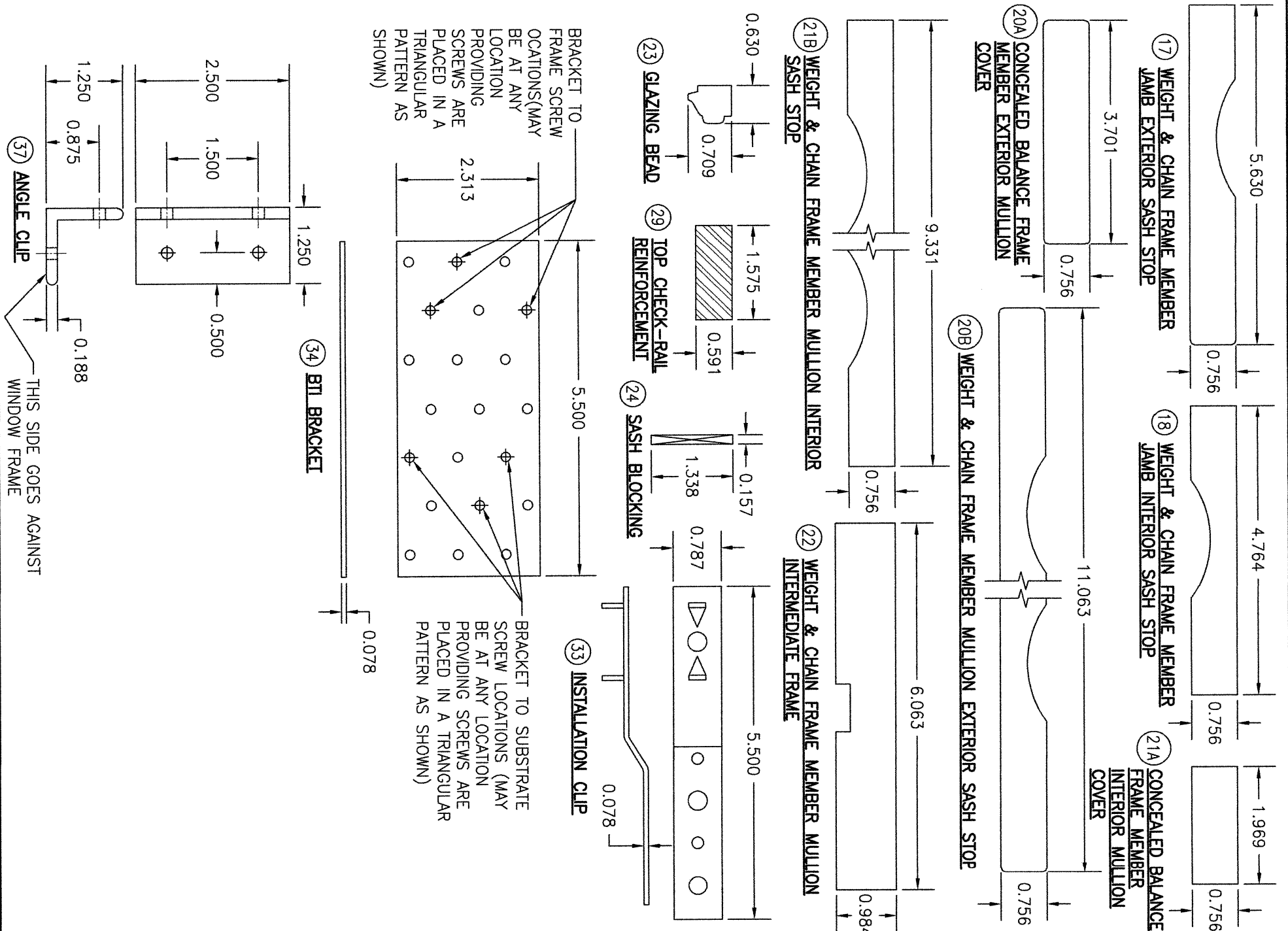
NO.	REVISION	DESCRIPTION	BY	DATE
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DRAWING TITLE	CONSULTANTS	MANUFACTURER
DOUBLE HUNG FIXED IMPACT WINDOW	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

CERTIFICATION	DRAWING NO.	REV.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1829	C
	SHEET NO.	8 OF 9

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	HEAD & CONCEALED BALANCE FRAME MEMBER JAMB	WOOD
2	SILL	WOOD
3A	CONCEALED BALANCE FRAME MEMBER JAMB (USED AT MULLION)	WOOD
3B	WEIGHT & CHAIN FRAME MEMBER JAMB	WOOD
4	WEIGHT & CHAIN FRAME MEMBER SUB-JAMB	WOOD
5	TOP RAIL	WOOD
6	TOP CHECK-RAIL	WOOD
7	BOTTOM CHECK-RAIL	WOOD
8	BOTTOM RAIL	WOOD
9	STILE	WOOD
10	HEAD & CONCEALED BALANCE FRAME MEMBER JAMB EXTERIOR SASH STOP	WOOD
11	PARTING STOP	WOOD
12	HEAD/JAMB INTERIOR SASH STOP	WOOD
13	TOP CHECK-RAIL EXTENSION	WOOD
14	SILL INTERIOR SASH STOP	WOOD
15	BOTTOM SASH STOP	WOOD
16	SILL INTERIOR CASING	WOOD
17	WEIGHT & CHAIN FRAME MEMBER JAMB EXTERIOR SASH STOP	WOOD
18	WEIGHT & CHAIN FRAME MEMBER JAMB INTERIOR SASH STOP	WOOD
20A	CONCEALED BALANCE FRAME MEMBER EXTERIOR MULLION COVER	WOOD
20B	WEIGHT & CHAIN FRAME MEMBER JAMB EXTERIOR MULLION COVER	WOOD
21A	CONCEALED BALANCE FRAME MEMBER INTERIOR MULLION COVER	WOOD
21B	WEIGHT & CHAIN FRAME MEMBER JAMB EXTERIOR MULLION COVER	WOOD
22	WEIGHT & CHAIN FRAME MEMBER MULLION INTERMEDIATE FRAME	WOOD
23	GLAZING BEAD	WOOD
24	SASH BLOCKING	WOOD
29	TOP CHECK-RAIL REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
33	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL
34	BTI BRACKET	GALVANIZED 54 KSI STEEL
37	ANGLE CLIP	6061-T6 ALUMINUM
SEALS & SEALANTS		
46	WEATHERSTRIP	SCHLEGEL QWS-250
47	WEATHERSTRIP	SCHLEGEL QFS-375
48	SILL WEATHERSTRIP	DEVENTER S6961
49	WEATHERSTRIP	SCHLEGEL QL-3055
FASTENERS		
53	NO. 8 X 1 1/2" SMS OR WOOD SCREW	WITHIN 2" FROM CORNERS & 12" MAX. O.C.
54	18 GA. X 1 1/2" S.S. BRAD NAIL	WITHIN 2" FROM CORNERS & 12" MAX. O.C.
56	NO. 10 X 2" SMS OR WOOD SCREW	WITHIN 2" FROM ENDS & ONE AT MID-SPAN
58	NO. 14 X 3 1/8" BAUTEC WOOD SCREW	WITHIN 4" FROM CORNERS & 12" MAX. O.C.
59	18 GA. X 1 1/2" S.S. CURVED NAIL	WITHIN 4" FROM CORNERS & 12" MAX. O.C.

NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.63 AND A MODULUS OF ELASTICITY OF E = 1,560,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.63 AND MODULUS OF ELASTICITY OF 1,560,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.



DRAWING NO. 1829		REV. C	SHEET NO. 9 OF 9	<u>CERTIFICATION</u> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING TITLE DOUBLE HUNG FIXED IMPACT WINDOW		NO.	REVISION	DESCRIPTION	BY	DATE	PLOT: 1-2	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
					CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600								