

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/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.

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.

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

INSTALLATION CLIP SCREWS

MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 X 1 1/2" SMS	1 3/8"	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"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

BTI BRACKET & ANGLE CLIP SCREWS

MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 1/8"	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"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).			

LOCK STRIKE REQUIREMENTS
(TOP OF PANEL)

SASH WIDTH	QUANTITY PER PANEL
RECTANGULAR PANEL	
OVER 24"	2
LESS THAN 24"	1
ARCH TOP PANEL	
OVER 28"	3
15" TO 28"	2
LESS THAN 15"	1
ROUND TOP PANEL	
OVER 32"	4
20" TO 32"	3
12" TO 20"	2
LESS THAN 12"	1

LOCK STRIKE REQUIREMENTS
(LOCK SIDE OF PANEL)

SASH HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
OVER 77"	3
40" TO 77"	2
LESS THAN 40"	1

LOCK STRIKE REQUIREMENTS
(BOTTOM OF PANEL)

SASH WIDTH	QUANTITY PER PANEL
ALL PANEL SHAPES	
OVER 32"	3
24" TO 32"	2
LESS THAN 24"	1

LOCK STRIKE REQUIREMENTS
(HINGE SIDE OF TILT-TURN
WINDOWS)

SASH HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
OVER 79"	4
45" TO 79"	3
27" TO 45"	2
LESS THAN 27"	1
NOTE: WHEN WINDOW IS TILT-TURN, ONLY 2 HINGES ARE USED COMBINED WITH LOCK POINTS. WHEN WINDOW IS SWING ONLY, ONLY HINGES EXIST.	

SASH WIDTH DIMENSIONS ARE
APPROXIMATELY 2 1/2" LESS
THAN THE FRAME WIDTH &
SASH HEIGHT DIMENSIONS ARE
APPROXIMATELY 3" LESS THAN
THE FRAME HEIGHT

ALLOWABLE DESIGN PRESSURE
(SINGLE & DOUBLE WINDOWS)

MAX. FRAME HEIGHT (IN.)	MAX. FRAME WIDTH (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
		SINGLE WINDOW	
100 3/4	51 1/8	70	70
76 11/16	35 15/16	70	(1) 85
DOUBLE WINDOW			
100 3/4	79 1/16	(2) 70	(2) 70
6 11/16"	71 13/16	70	(1) 85

- (1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTION 2 & STANDARD SIZE MEETING STILES ARE USED
- (2) WITH FULL SIZE SINGLE WINDOWS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-66 PSF.
- PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 39.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 87".

THE "SASH HEIGHT" IS
CONSIDERED TO BE FULL SASH
HEIGHT FOR RECTANGULAR
UNITS OR DISTANCE FROM THE
BASE OF SASH TO SASH
SRINGLINE FOR SHAPED UNITS

HINGE REQUIREMENTS

SASH HEIGHT	QUANTITY PER PANEL
POT HINGES	
OVER 74"	5
51" TO 74"	4
27" TO 51"	3
LESS THAN 27"	2
SCREWED-IN HINGES	
OVER 74"	4
46" TO 74"	3
LESS THAN 46"	2
CONCEALED HINGES	
OVER 78"	5
54" TO 78"	4
29" TO 54"	3
LESS THAN 29"	2

HINGE REQUIREMENTS
(TILT-TURN WINDOWS)

2 PER WINDOW
(ALL SIZES OF ALL WINDOWS)

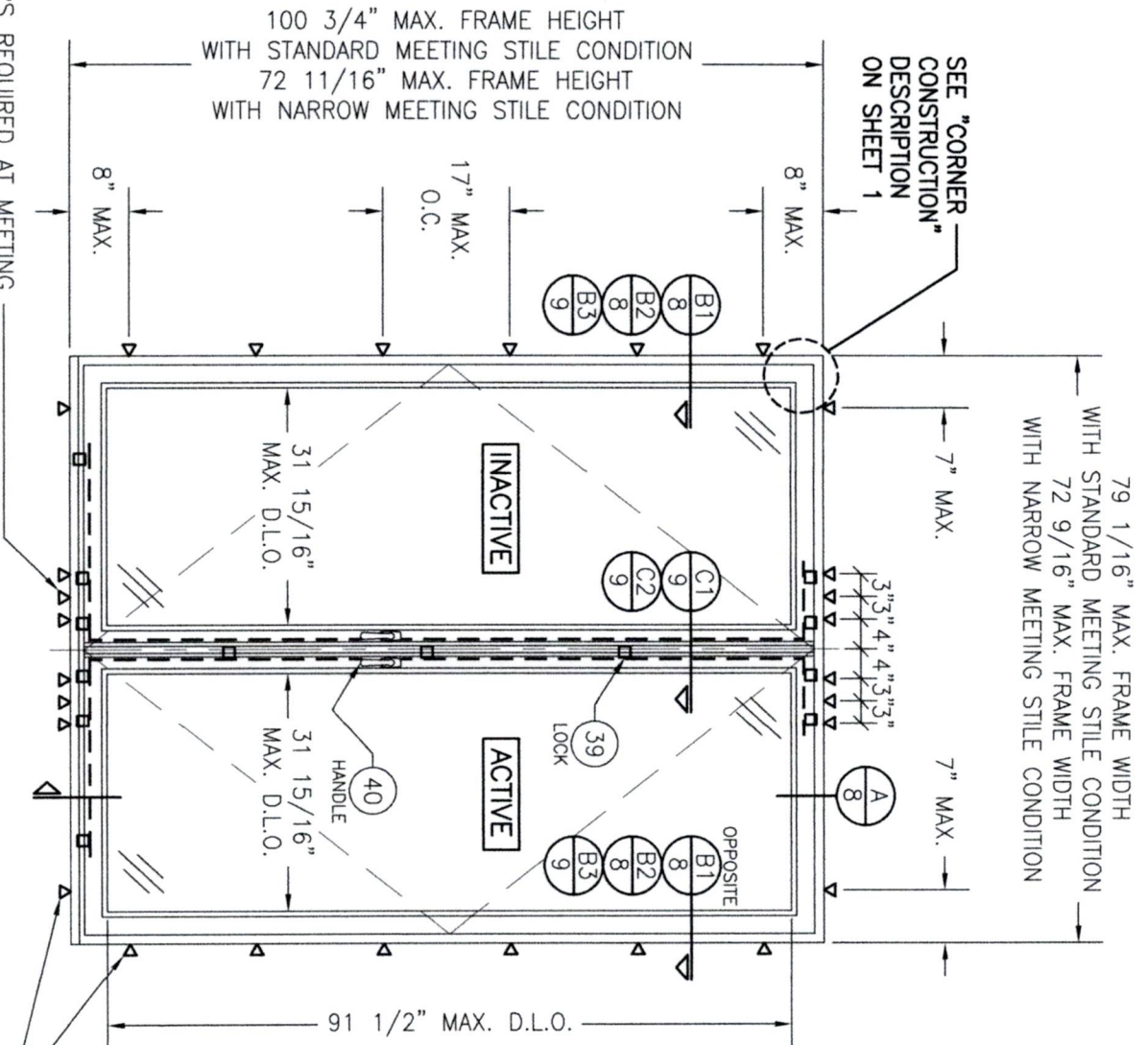


Digitally signed
by Warren W
Schaefer

Date:
2023.02.27
16:19:10 -05'00'

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.

DRAWING NO. 1531 SHEET NO. 1 OF 14		REV. D	CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING TITLE IN-SWING IMPACT WOOD CASEMENT WINDOW		NO. REVISION DESCRIPTION BY DATE				PLOT: 1=24	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
				CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600		A1 UPDATE TO CURRENT STANDARDS W.R.M. 10/25/11	B1 UPDATE GLASS DESCRIPTION W.R.M. 09/04/13			



79 1/16" MAX. FRAME WIDTH
WITH STANDARD MEETING STILE CONDITION
72 9/16" MAX. FRAME WIDTH
WITH NARROW MEETING STILE CONDITION

SEE "CORNER CONSTRUCTION" DESCRIPTION ON SHEET 1

8" MAX.

7" MAX.

3"3" 4"4" 3"3"

8" MAX.

17" MAX. O.C.

8" MAX.

31 15/16" MAX. D.L.O.

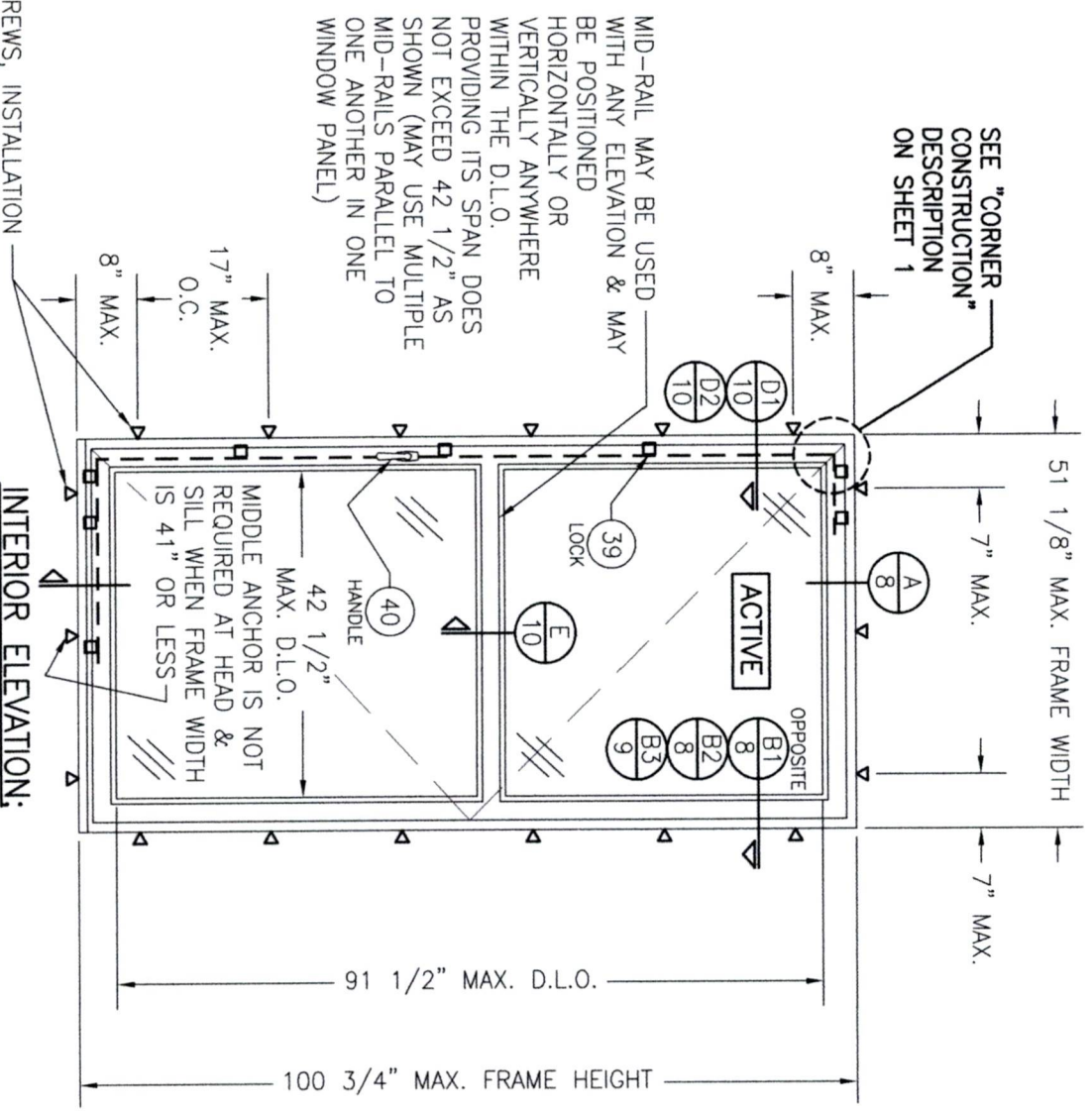
31 15/16" MAX. D.L.O.

91 1/2" MAX. D.L.O.

4 ANCHORS REQUIRED AT MEETING STILE ENDS WHEN WINDOW FRAME WIDTH IS 74" OR LESS OR WHEN FRAME HEIGHT IS 93" OR LESS; 6 ANCHORS REQUIRED OTHERWISE.

INTERIOR ELEVATION:
DOUBLE RECTANGULAR CASEMENT WINDOWS
(TURN ONLY CONDITION)

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



51 1/8" MAX. FRAME WIDTH

SEE "CORNER CONSTRUCTION" DESCRIPTION ON SHEET 1

8" MAX.

7" MAX.

7" MAX.

17" MAX. O.C.

8" MAX.

42 1/2" MAX. D.L.O.

40 HANDLE

39 LOCK

91 1/2" MAX. D.L.O.

100 3/4" MAX. FRAME HEIGHT

MID-RAIL MAY BE USED WITH ANY ELEVATION & MAY BE POSITIONED HORIZONTALLY OR VERTICALLY ANYWHERE WITHIN THE D.L.O. PROVIDING ITS SPAN DOES NOT EXCEED 42 1/2" AS SHOWN (MAY USE MULTIPLE MID-RAILS PARALLEL TO ONE ANOTHER IN ONE WINDOW PANEL)

FRAME SHEAR SCREWS, INSTALLATION CLIPS, BT BRACKETS OR ANGLE CLIPS WHERE SHOWN, SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

INTERIOR ELEVATION:
SINGLE RECTANGULAR CASEMENT WINDOW
(TURN ONLY CONDITION)

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

NOTE: WINDOW IS SHOWN WITH A MID-RAIL CONDITION. FULL LIGHT CONDITION ALSO APPLIES.

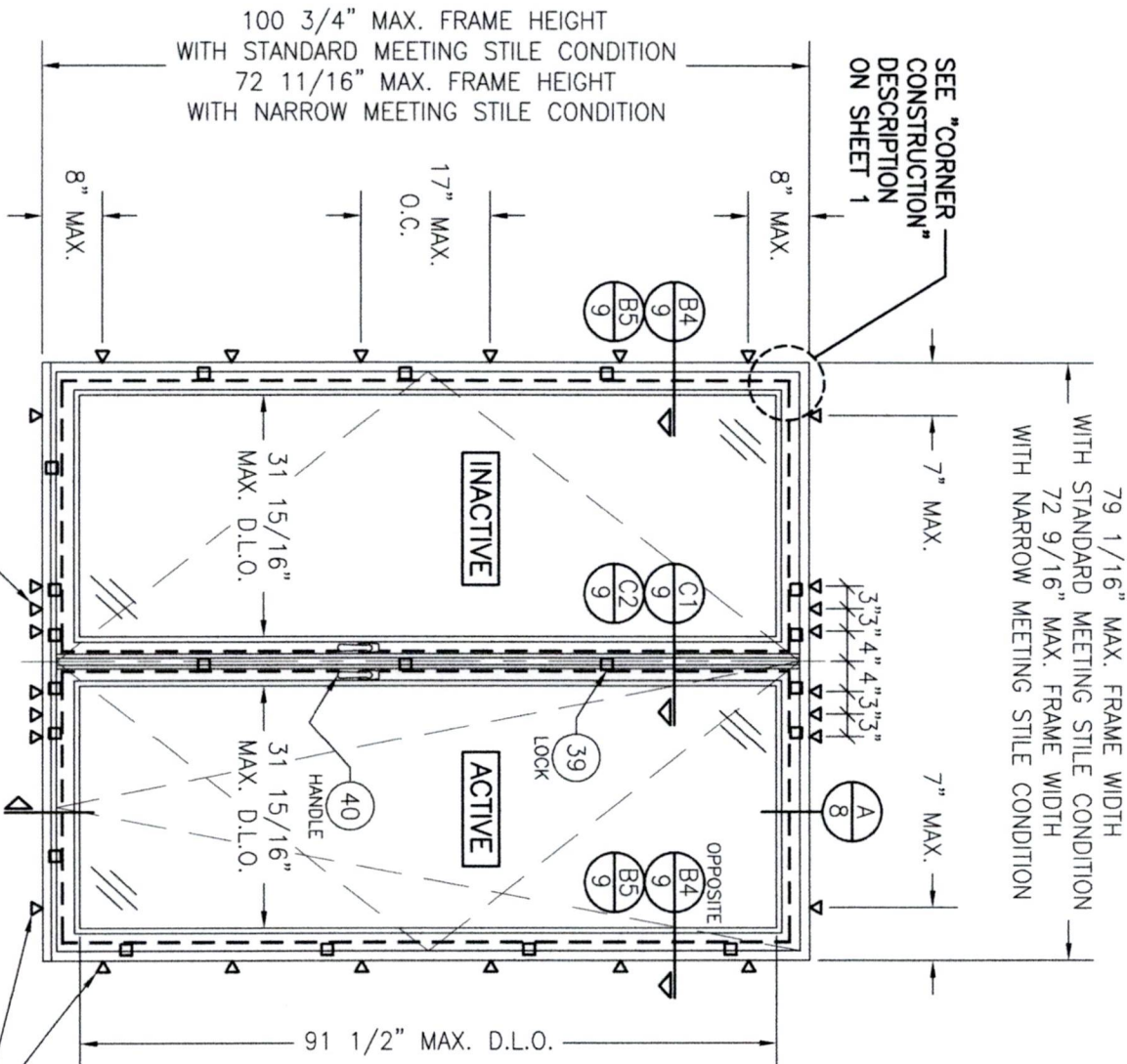
DUE TO HINGE CONDITION VARIATIONS, HINGES ARE NOT SHOWN IN ELEVATIONS, SEE SECTIONS & HINGE TABLES FOR HINGE REQUIREMENTS

NO.	REVISION	DESCRIPTION	BY	DATE

DRAWN BY: W.R.M.	CHECKED BY: W.M.S.
PLOT: 1=24	DATE: 04/03/08

DRAWING TITLE IN-SWING IMPACT WOOD CASEMENT WINDOW	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 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. 1531	REV. D
SHEET NO. 2 OF 14	



100 3/4" MAX. FRAME HEIGHT
WITH STANDARD MEETING STILE CONDITION
72 11/16" MAX. FRAME HEIGHT
WITH NARROW MEETING STILE CONDITION

8" MAX.

17" MAX.
O.C.

79 1/16" MAX. FRAME WIDTH
WITH STANDARD MEETING STILE CONDITION
72 9/16" MAX. FRAME WIDTH
WITH NARROW MEETING STILE CONDITION

7" MAX.

31 15/16" MAX. D.L.O.

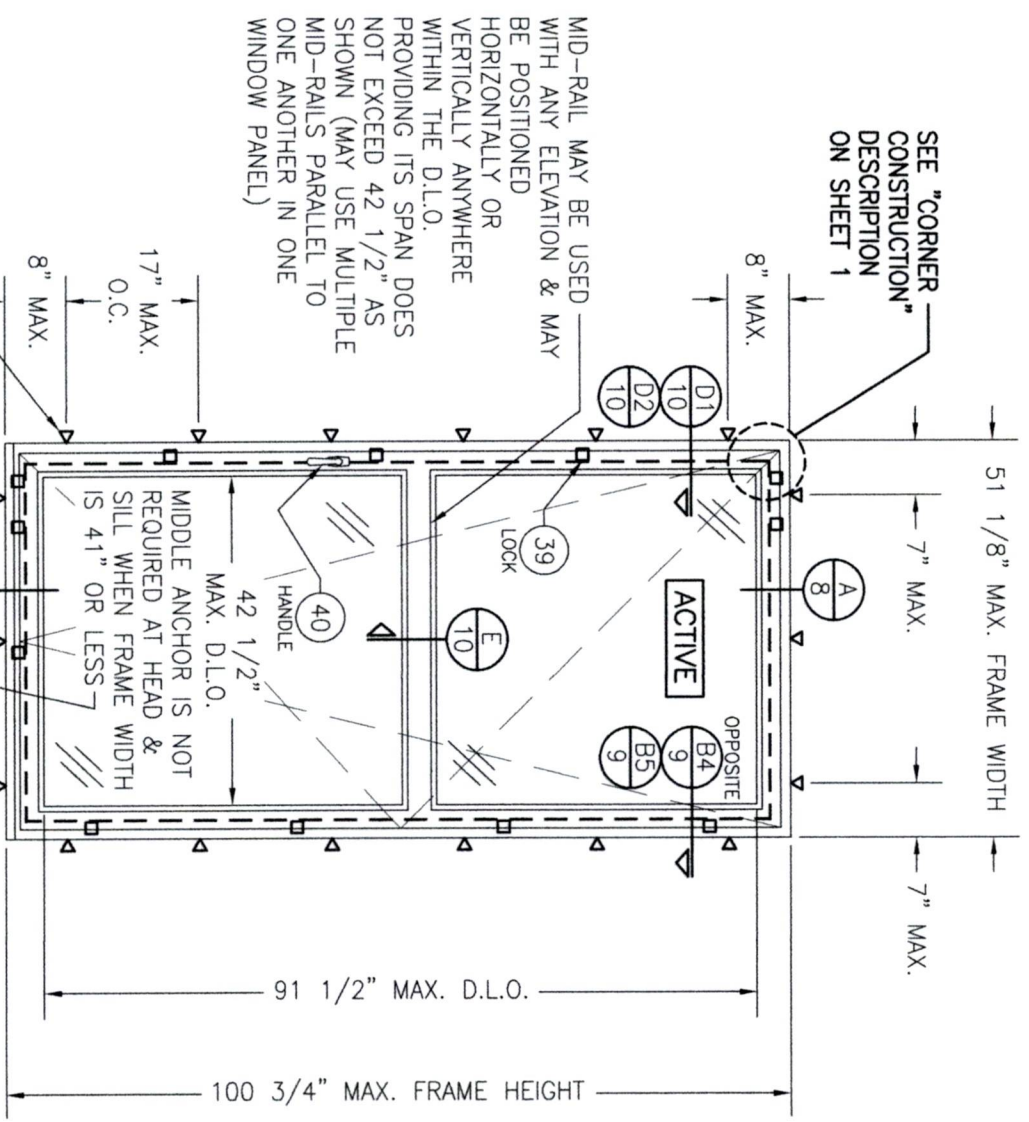
31 15/16" MAX. D.L.O.

91 1/2" MAX. D.L.O.

4 ANCHORS REQUIRED AT MEETING STILE ENDS WHEN WINDOW FRAME WIDTH IS 74" OR LESS OR WHEN FRAME HEIGHT IS 93" OR LESS; 6 ANCHORS REQUIRED OTHERWISE.

DOUBLE RECTANGULAR CASEMENT WINDOWS
(TURN & TILT CONDITION)

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



51 1/8" MAX. FRAME WIDTH

7" MAX.

7" MAX.

91 1/2" MAX. D.L.O.

100 3/4" MAX. FRAME HEIGHT

MID-RAIL MAY BE USED WITH ANY ELEVATION & MAY BE POSITIONED HORIZONTALLY OR VERTICALLY ANYWHERE WITHIN THE D.L.O. PROVIDING ITS SPAN DOES NOT EXCEED 42 1/2" AS SHOWN (MAY USE MULTIPLE MID-RAILS PARALLEL TO ONE ANOTHER IN ONE WINDOW PANEL)

42 1/2" MAX. D.L.O.

MIDDLE ANCHOR IS NOT REQUIRED AT HEAD & SILL WHEN FRAME WIDTH IS 41" OR LESS

FRAME SHEAR SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

SINGLE RECTANGULAR CASEMENT WINDOW
(TURN & TILT CONDITION)

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

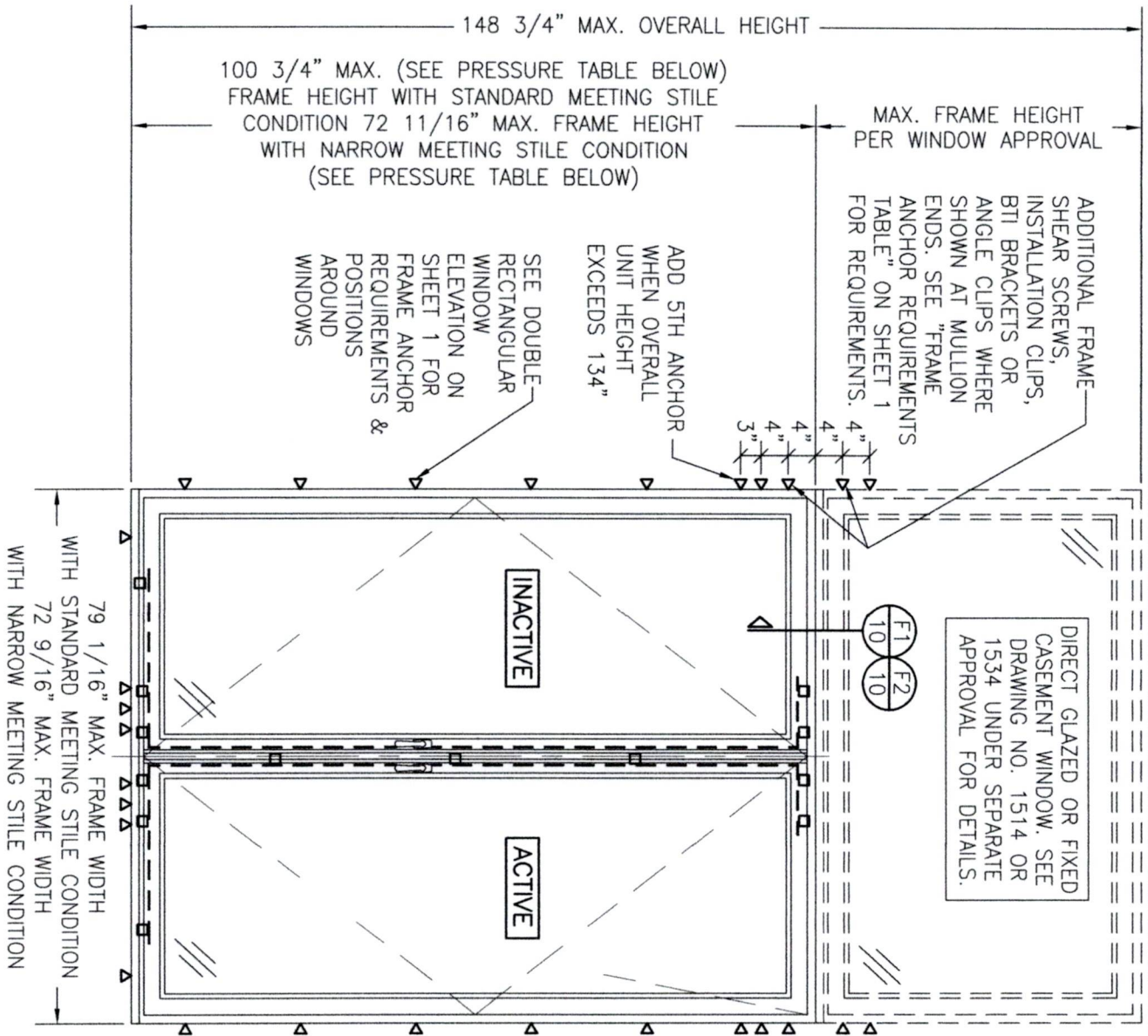
NOTE: WINDOW IS SHOWN WITH A MID-RAIL CONDITION. FULL LIGHT CONDITION ALSO APPLIES.

DUE TO HINGE CONDITION VARIATIONS, HINGES ARE NOT SHOWN IN ELEVATIONS, SEE SECTIONS & HINGE TABLES FOR HINGE REQUIREMENTS

NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE IN-SWING IMPACT WOOD CASEMENT WINDOW	MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	

CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1531 REV. D	SHEET NO. 3 OF 14
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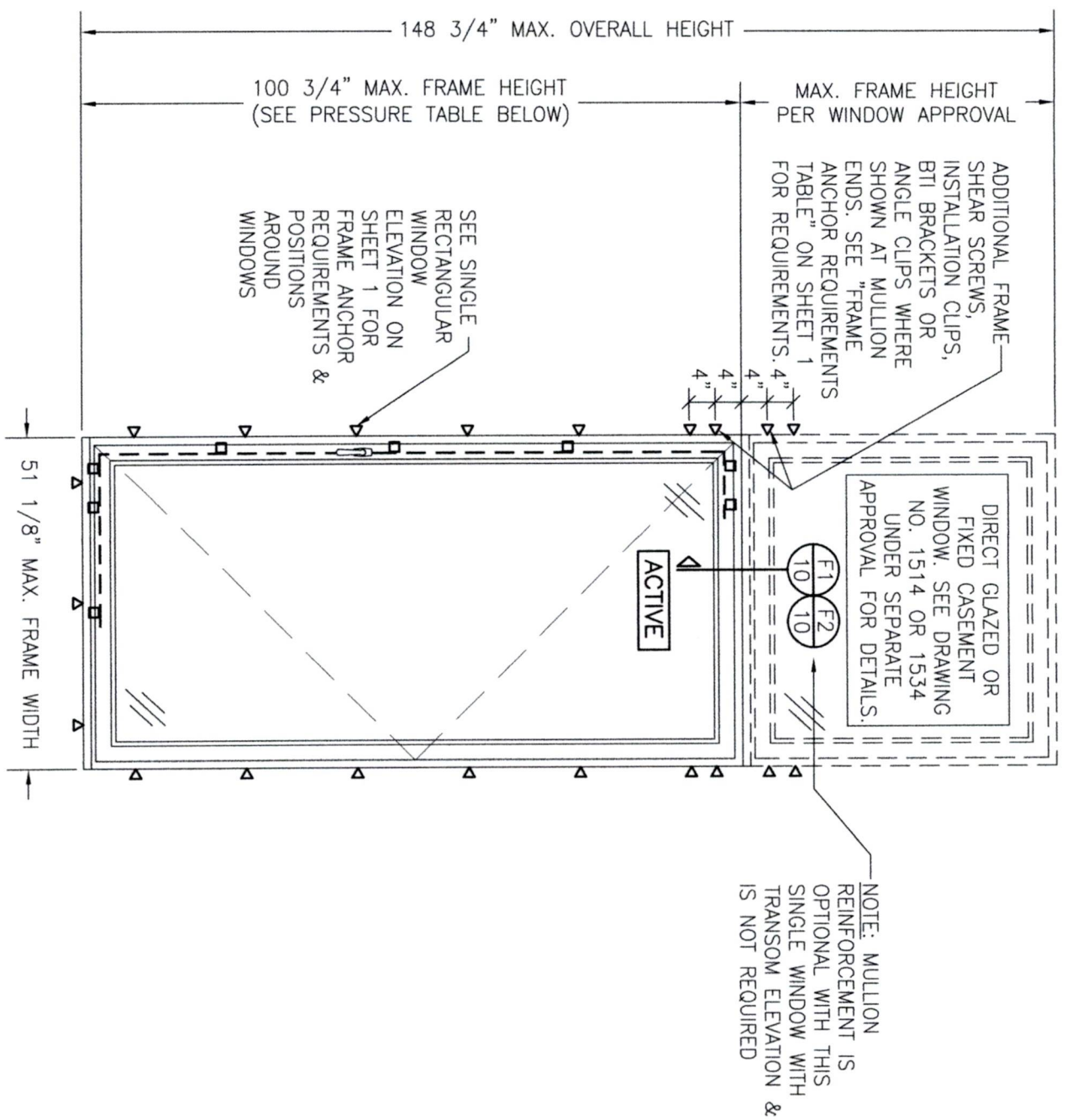


INTERIOR ELEVATION:
DOUBLE CASEMENT WINDOWS WITH TRANSOM
(TURN CONDITION SHOWN; TILT CONDITION ALSO APPLIES)

SCALE: 1/2" = 1'-0"
(SEE DOUBLE RECTANGULAR WINDOW ELEVATIONS ON SHEET 2 & 3 FOR WINDOW DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (DOUBLE WINDOW TRANSOM UNIT)			
MAX. BOTTOM WINDOW FRAME HEIGHT (IN.)	MAX. FRAME WIDTH (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
101 3/4	79 1/16	70	70
76 11/16	71 13/16	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTION 2 & STANDARD SIZE MEETING STILES ARE USED

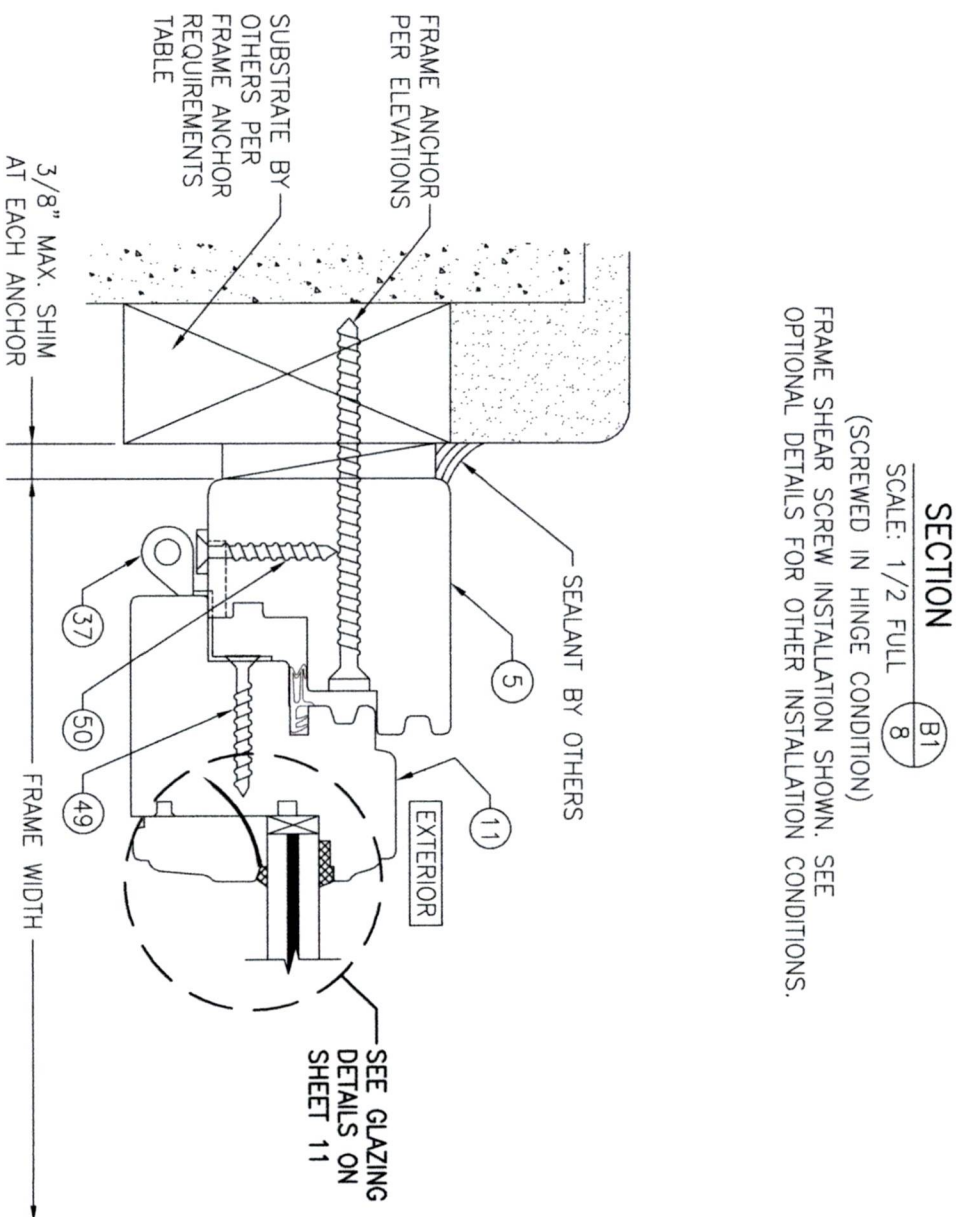
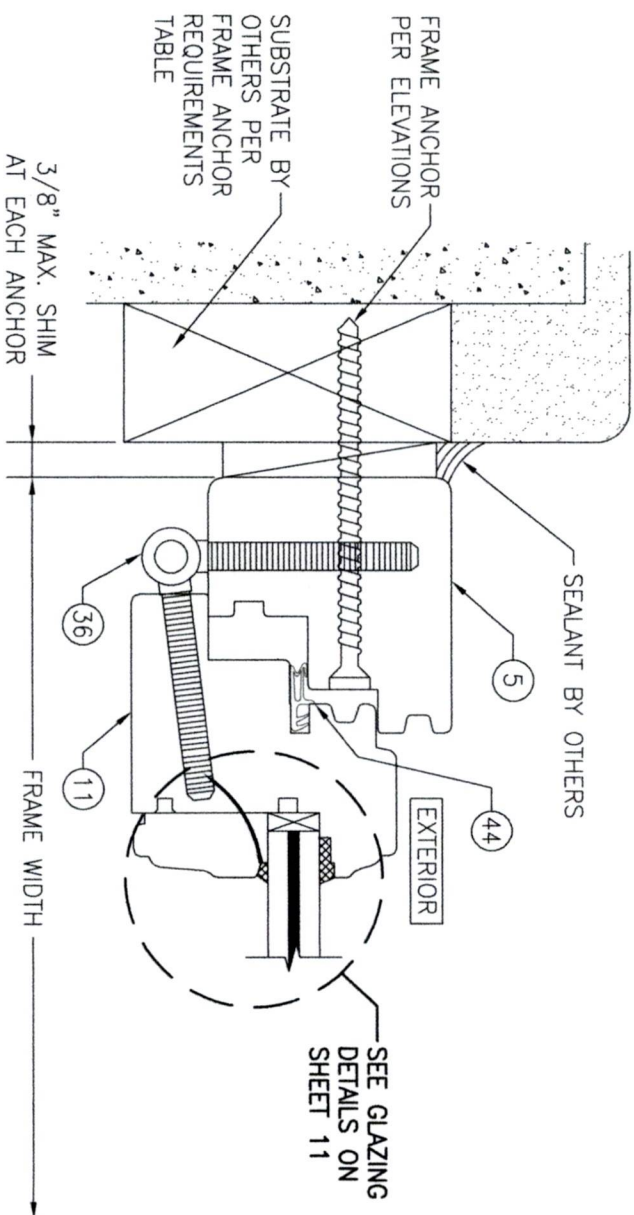
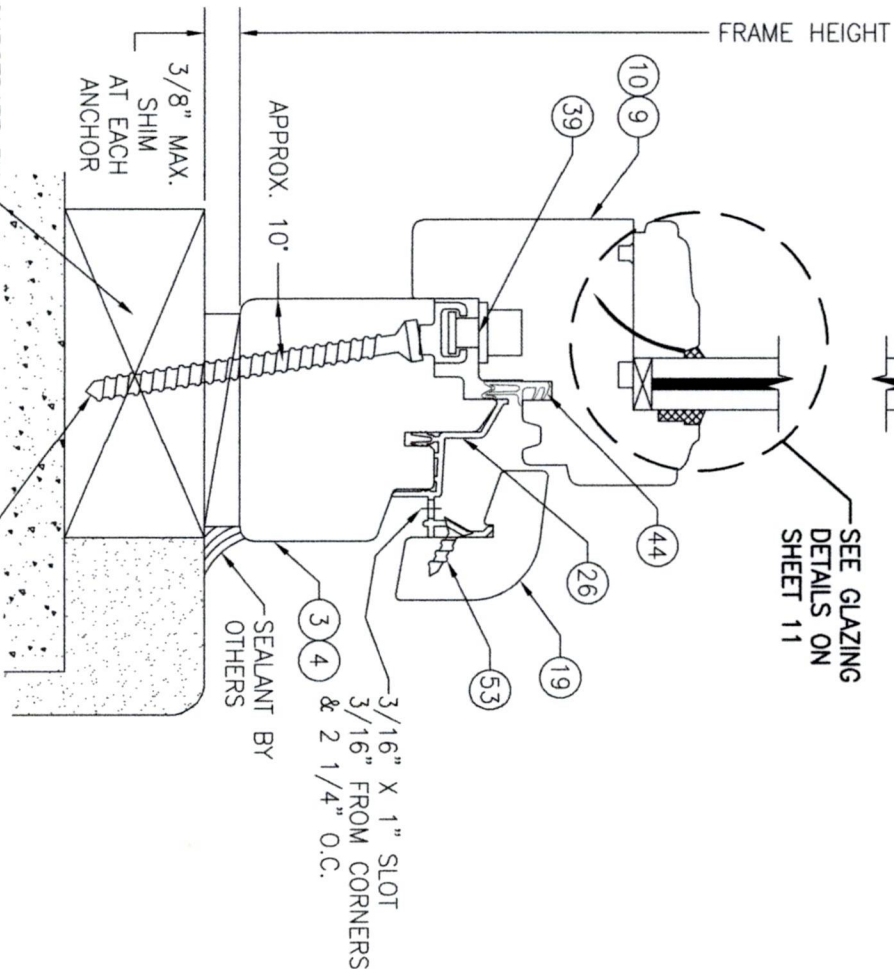
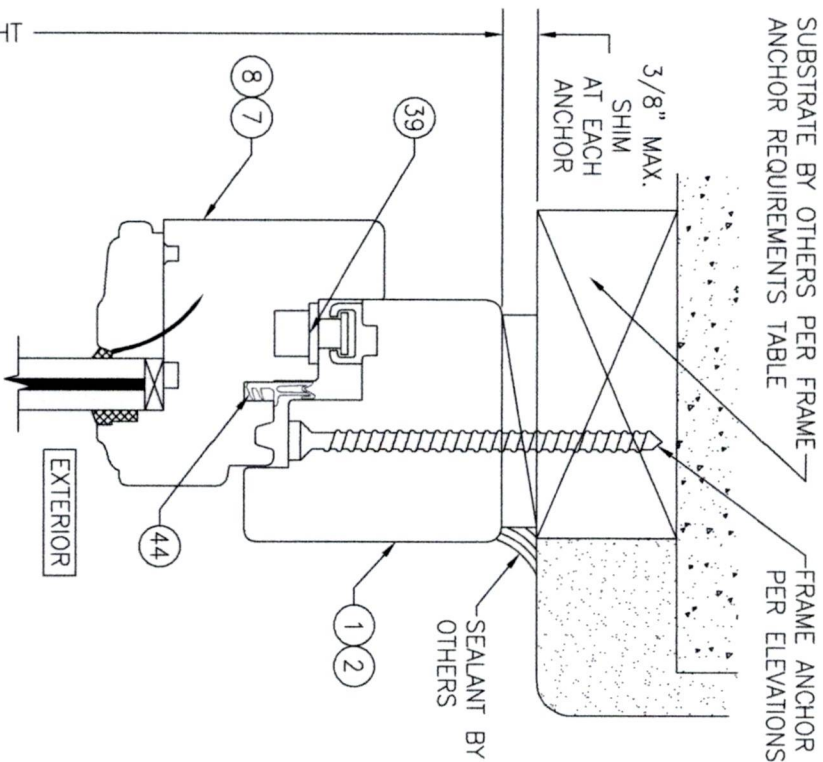


INTERIOR ELEVATION:
SINGLE CASEMENT WINDOW WITH TRANSOM
(TURN CONDITION SHOWN; TILT CONDITION ALSO APPLIES)

SCALE: 1/2" = 1'-0"
(SEE SINGLE RECTANGULAR WINDOW ELEVATIONS ON SHEET 2 & 3 FOR WINDOW DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (SINGLE WINDOW TRANSOM UNIT)			
MAX. BOTTOM WINDOW FRAME HEIGHT (IN.)	MAX. FRAME WIDTH (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
101 3/4	51 1/8	70	70
76 11/16	36 11/16	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTION 2 & STANDARD SIZE MEETING STILES ARE USED

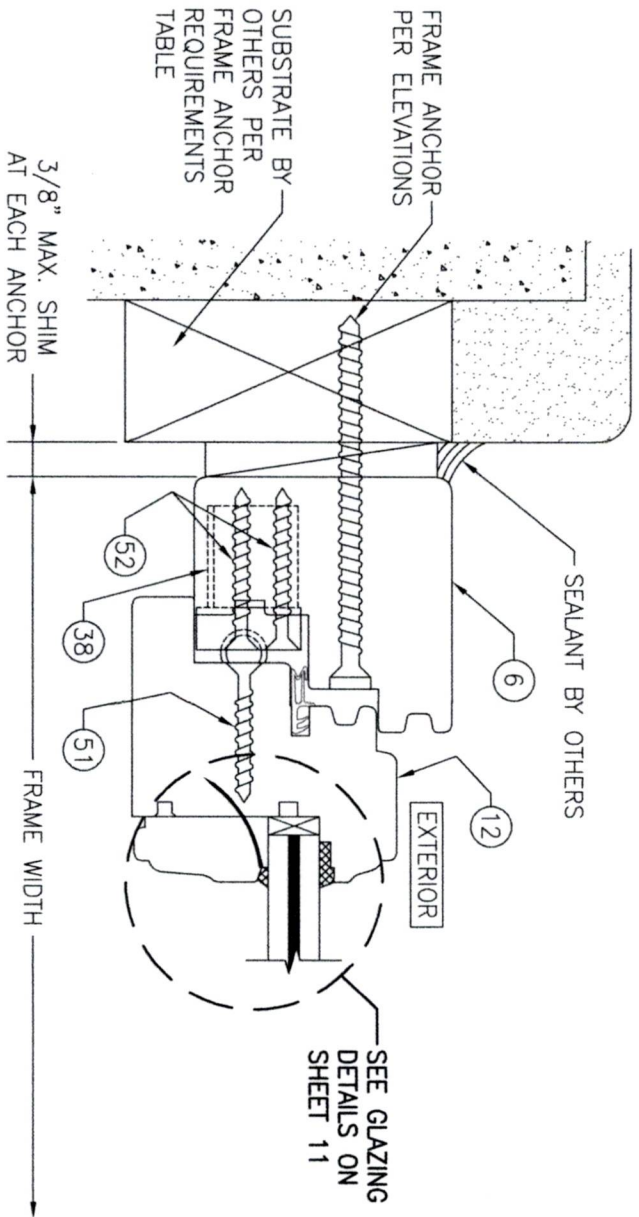


NO.	REVISION	DESCRIPTION	BY	DATE

DRAWN BY: W.R.M. **CHECKED BY:** W.M.S.
PLOT: 1=2 **DATE:** 04/03/08
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 26376 NADIR ROAD; UNIT 309
 PUNTA GORDA, FL 33983
 PHONE: 561-744-3424
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
 SIX SUBURBAN AVENUE
 STAMFORD, CONNECTICUT
 203-674-0600

DRAWING TITLE
IN-SWING IMPACT WOOD CASEMENT WINDOW

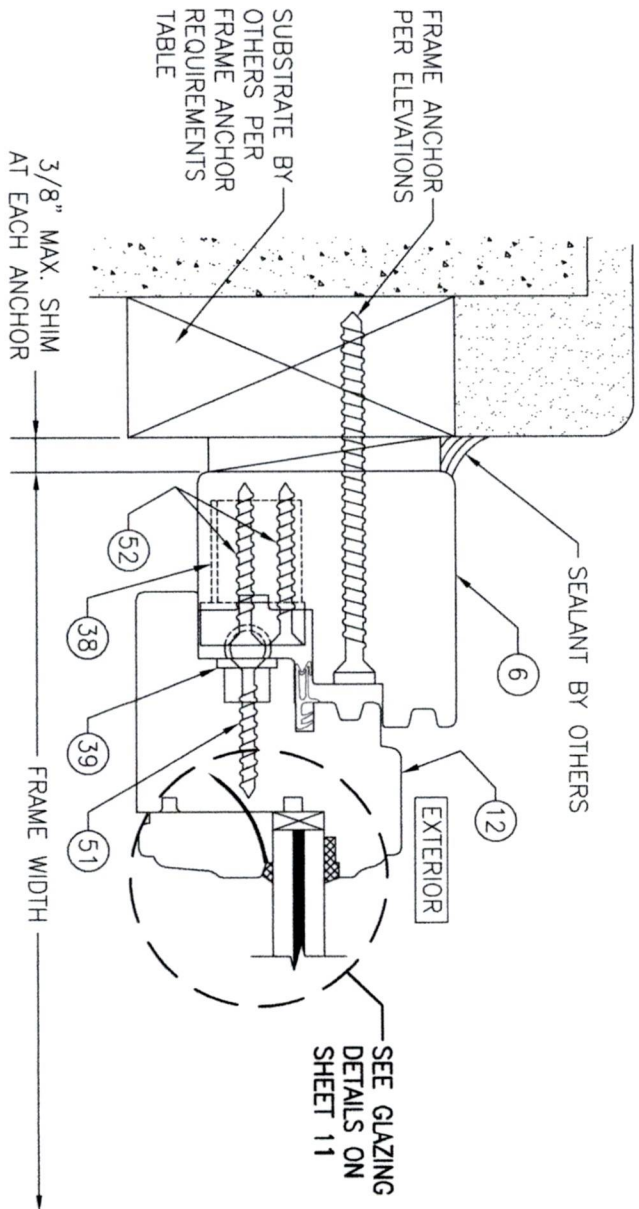
CERTIFICATION
WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135
DRAWING NO. 1531 **REV.** D
SHEET NO. 8 OF 14



SECTION

B3
SCALE: 1/2 FULL
9

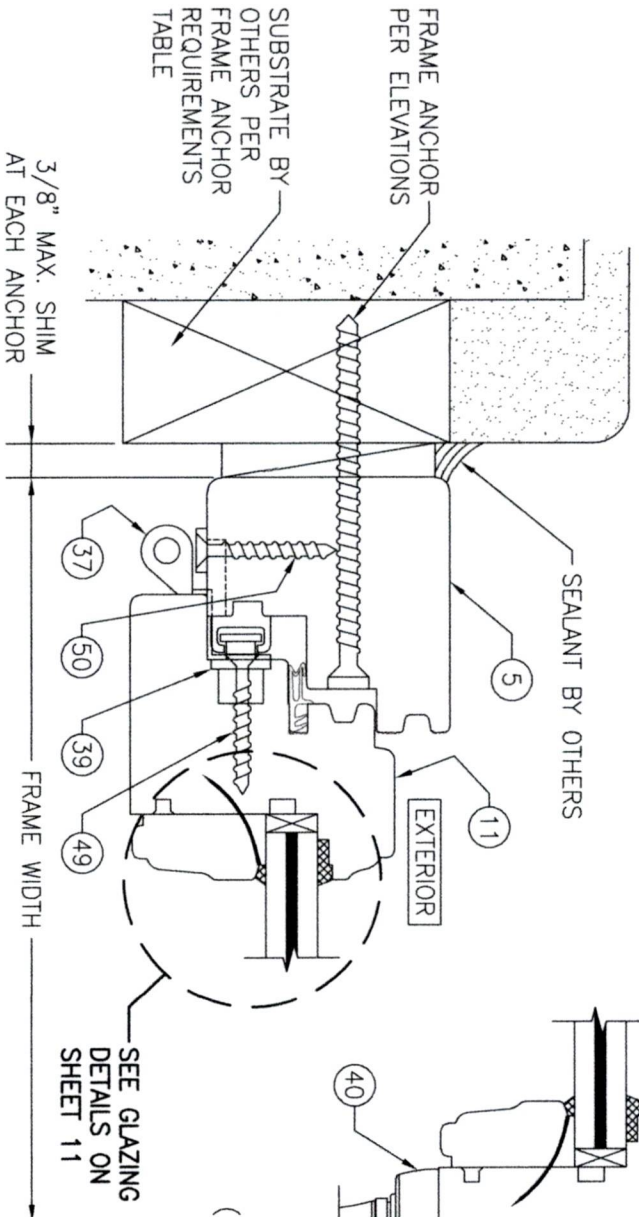
(CONCEALED HINGE; TURN ONLY CONDITION)
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE
OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.
(FOR DETAIL NOT SHOWN, SEE SECTION B1/8)



SECTION

B4
SCALE: 1/2 FULL
9

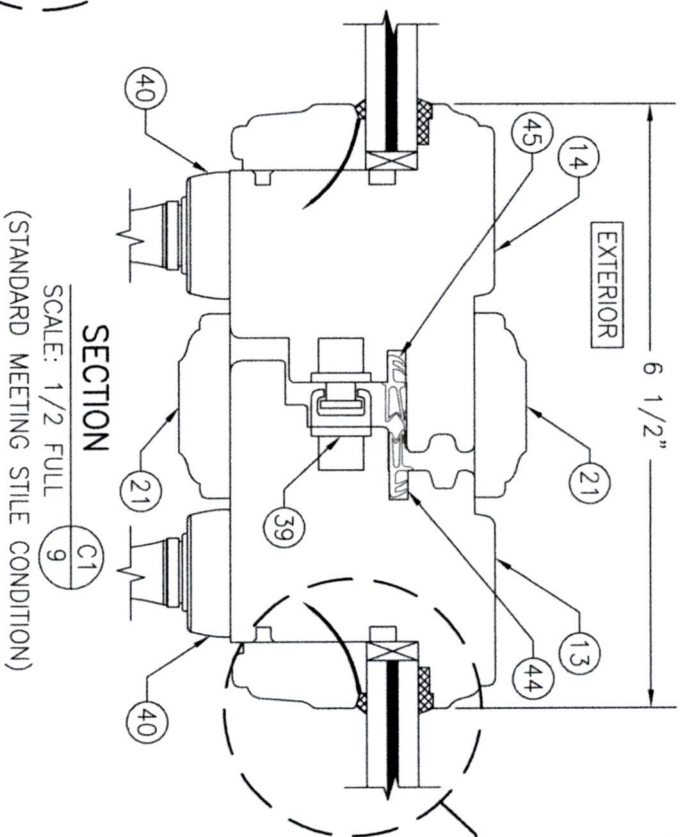
(CONCEALED HINGE; TILT CONDITION)
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE
OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.
(FOR DETAIL NOT SHOWN, SEE SECTION B1/8)



SECTION

B5
SCALE: 1/2 FULL
9

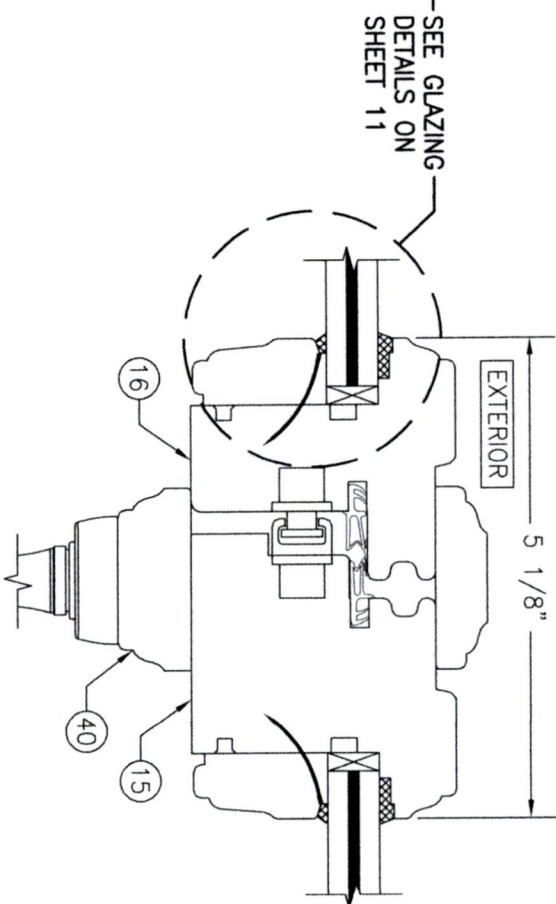
(POT HINGE; TILT CONDITION)
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE
OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.
(FOR DETAIL NOT SHOWN, SEE SECTION B1/8)



SECTION

C1
SCALE: 1/2 FULL
9

(STANDARD MEETING STILE CONDITION)



SECTION

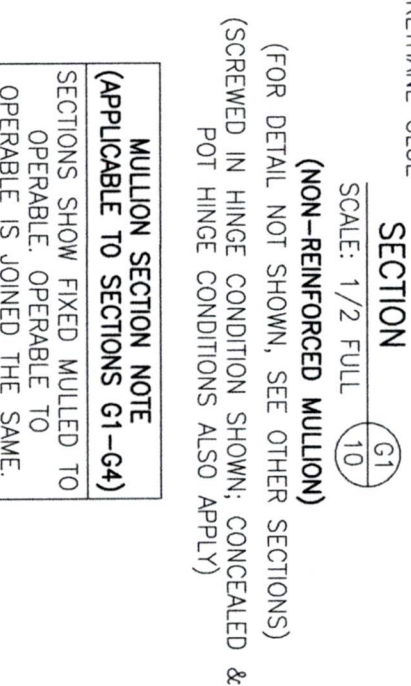
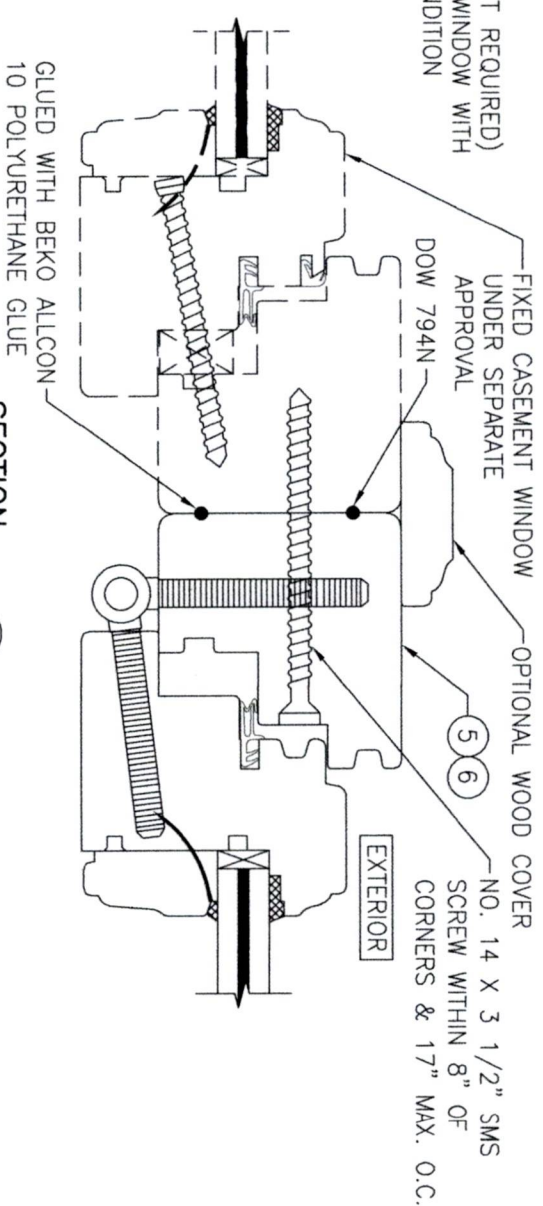
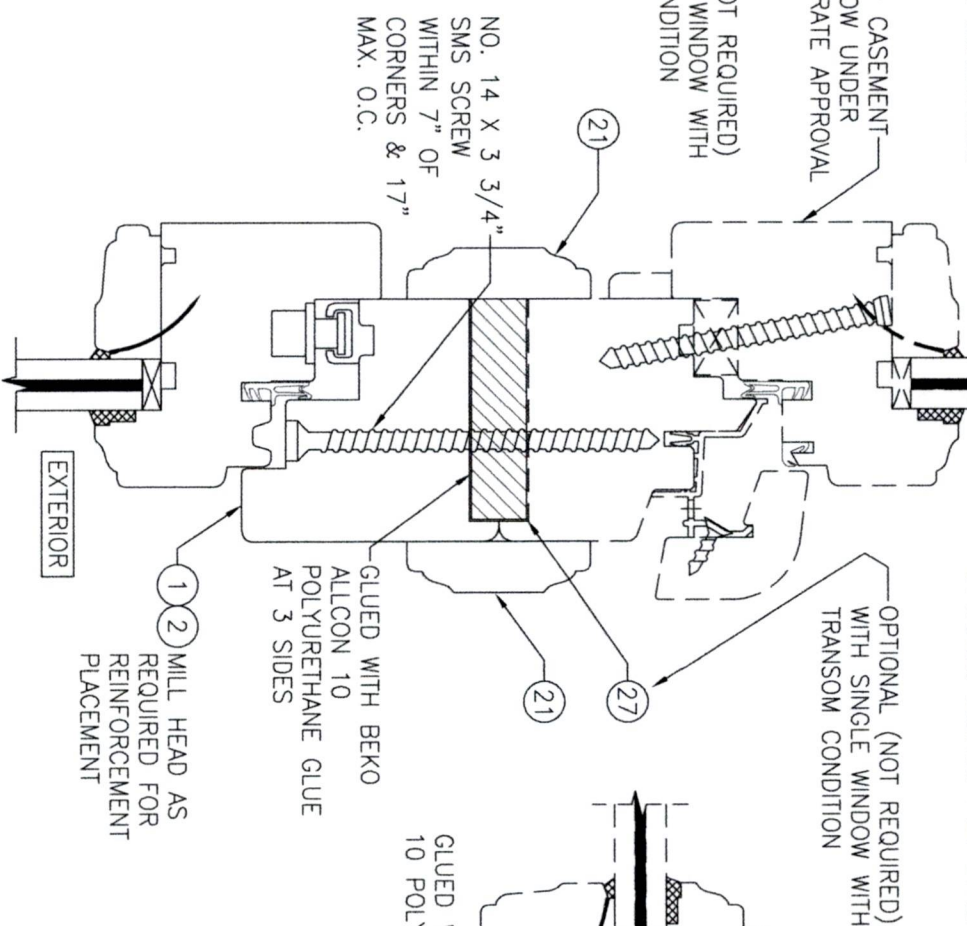
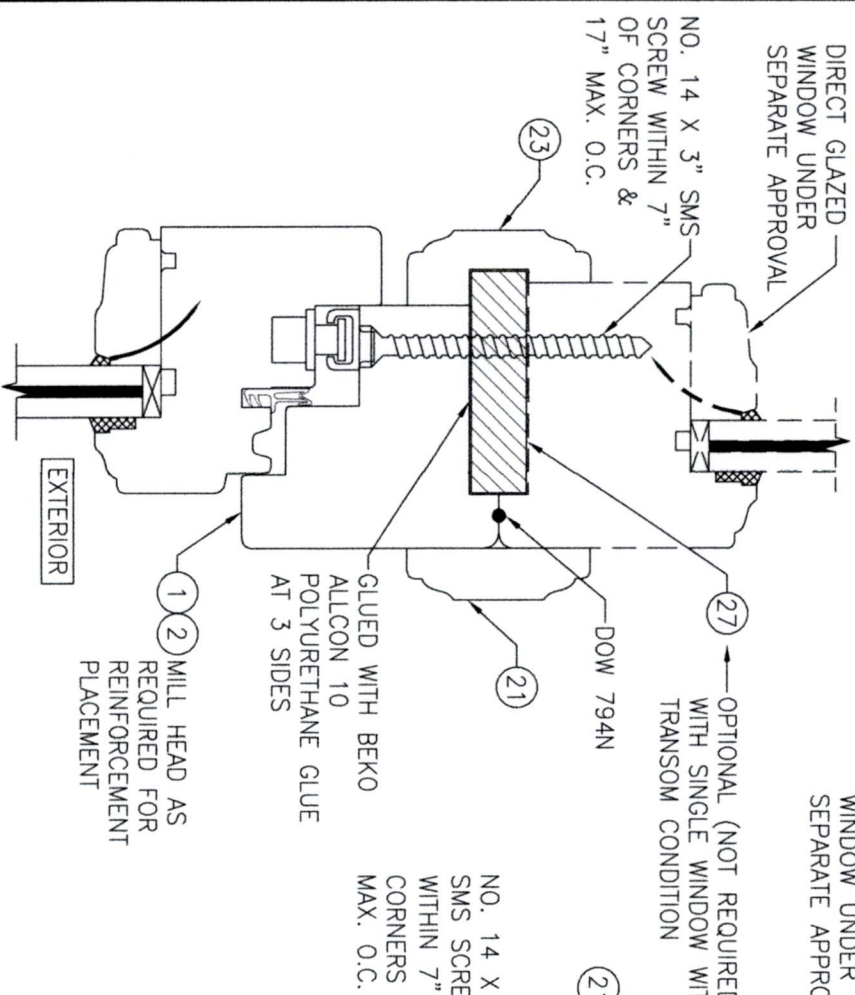
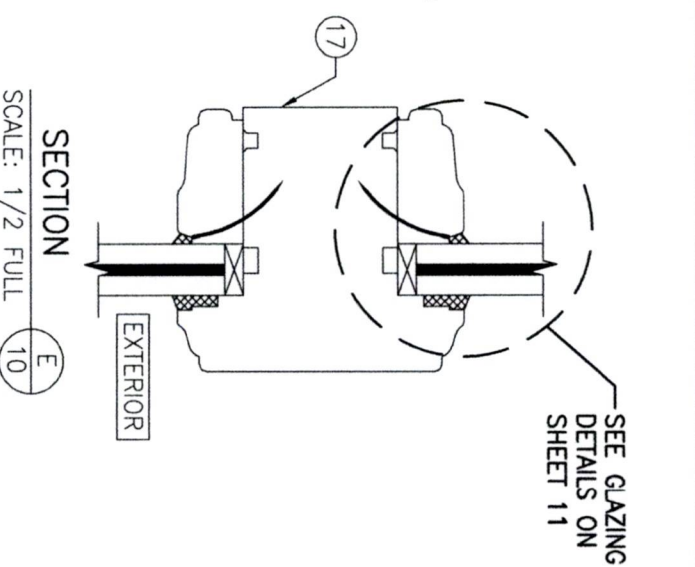
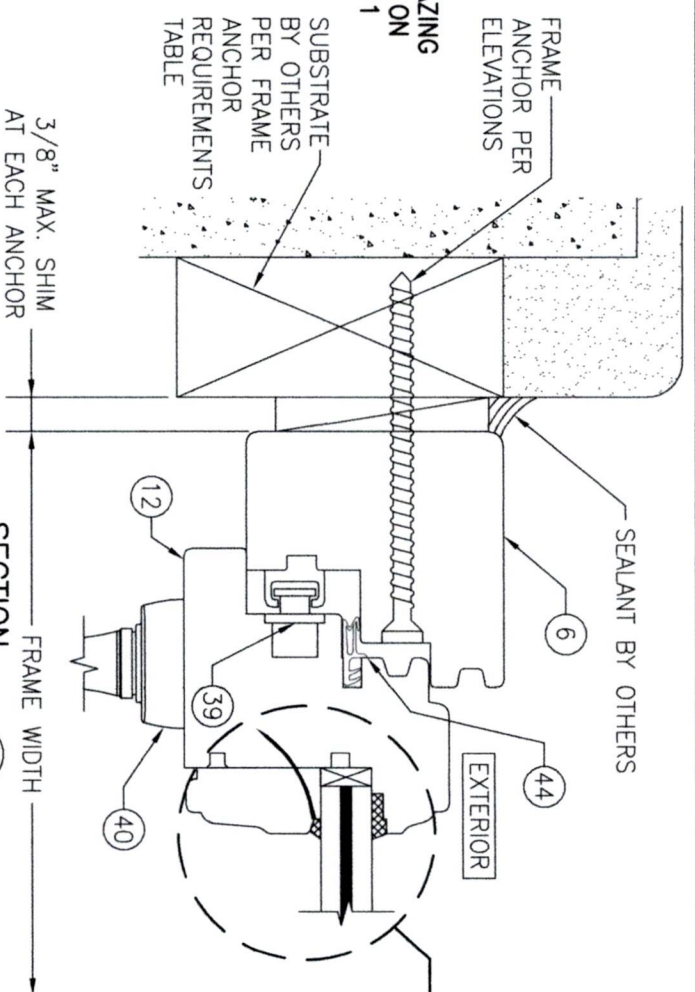
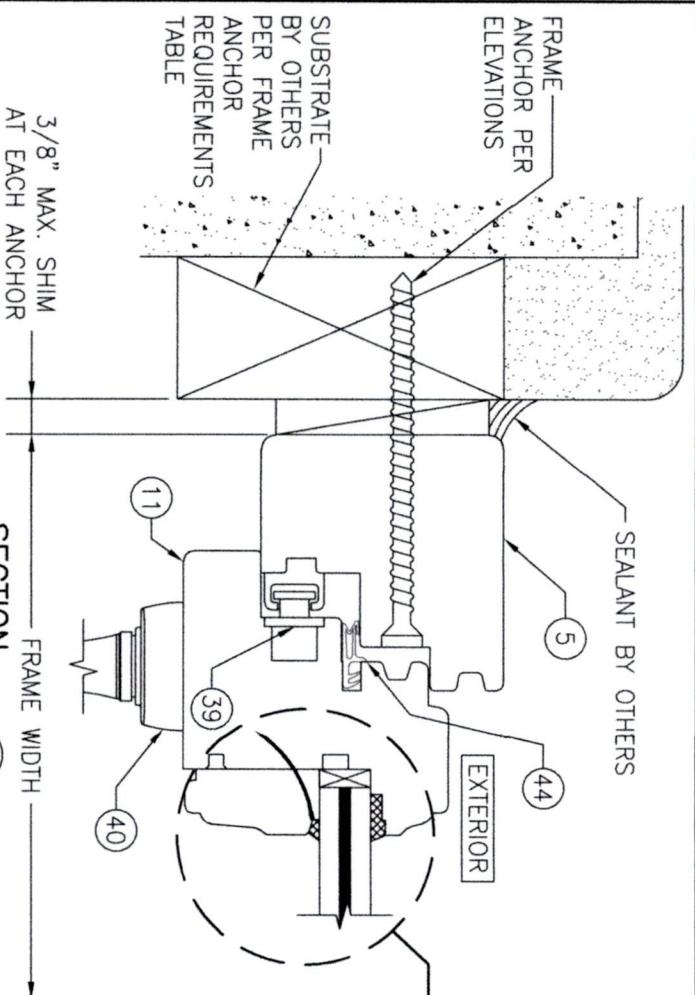
C2
SCALE: 1/2 FULL
9

(NARROW MEETING STILE CONDITION)
(FOR DETAIL NOT SHOWN, SEE SECTION C1/9)

NO.	REVISION	DESCRIPTION	BY	DATE
1	2			

DRAWING TITLE		MANUFACTURER	
IN-SWING IMPACT WOOD CASEMENT WINDOW		TISCHLER UND SOHN (USA) LTD.	
CONSULTANTS		SIX SUBURBAN AVENUE	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		STAMFORD, CONNECTICUT	
26376 NADIR ROAD; UNIT 309		203-674-0600	
PUNTA GORDA, FL 33983			
PHONE: 561-744-3424			

CERTIFICATION		DRAWING NO.	
WARREN W. SCHAEFER, P.E.		1531	
P.E. NO. 44135		D	
		SHEET NO.	
		9 OF 14	



MULLION SECTION NOTE
APPLICABLE TO SECTIONS G1-G4)

SECTIONS SHOW FIXED MULLED TO
OPERABLE. OPERABLE TO
OPERABLE IS JOINED THE SAME.

[illegible]

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT
203-674-0600

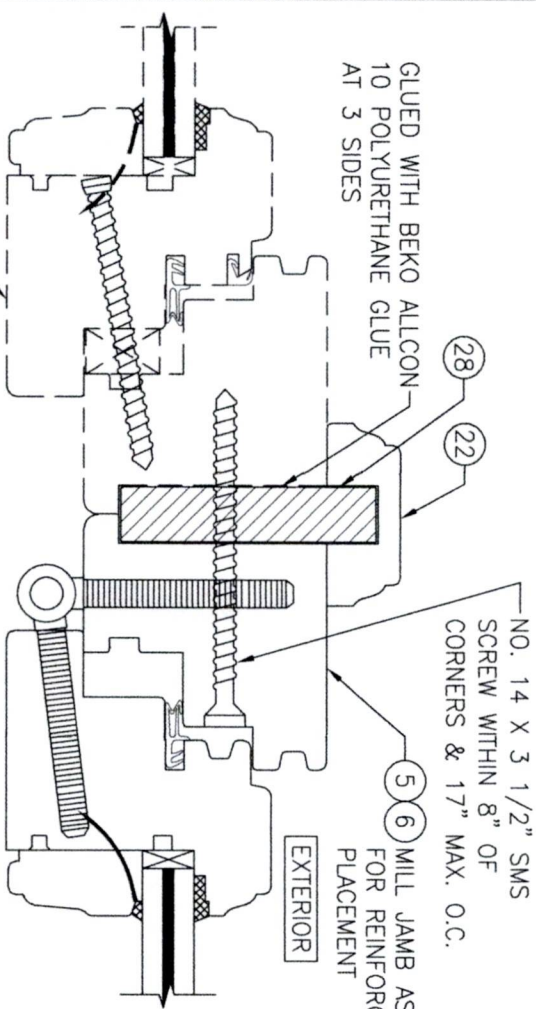
CONSULTANTS
**W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.**
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

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

IN-SWING IMPACT WOOD CASEMENT WINDOW

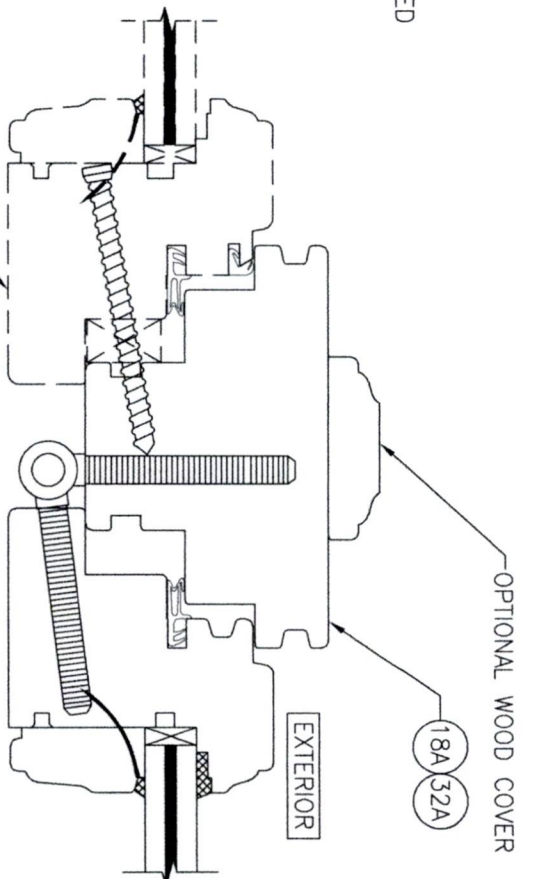
CERTIFICATION

DRAWING NO.	REV.
1531	D
SHEET NO.	
10 OF 14	



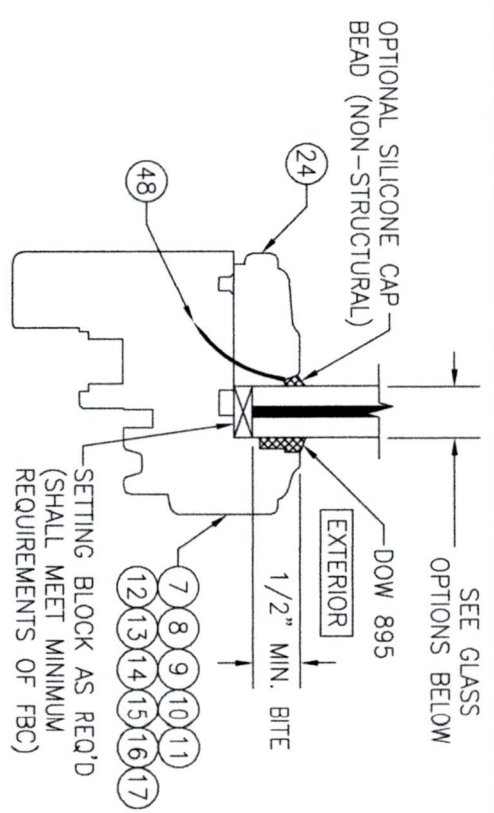
SECTION
SCALE: 1/2 FULL
G2
(REINFORCED MULLION)

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(SCREWED IN HINGE CONDITION SHOWN; CONCEALED & POT HINGE CONDITIONS ALSO APPLY)



SECTION
SCALE: 1/2 FULL
G3
(NON-REINFORCED MULLION)

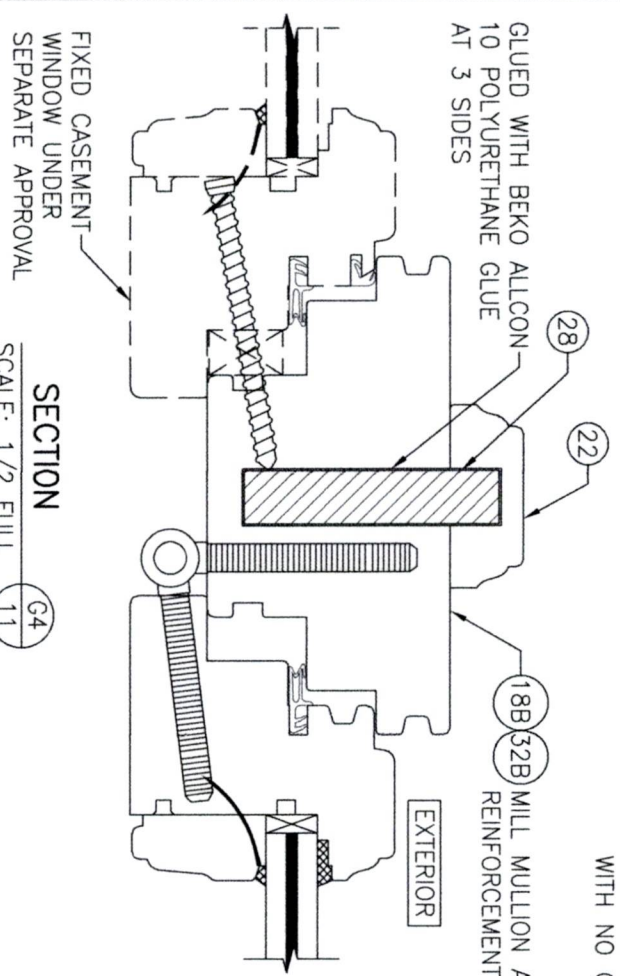
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(SCREWED IN HINGE CONDITION SHOWN; CONCEALED & POT HINGE CONDITIONS ALSO APPLY)



NON-I.G. GLAZING DETAIL
GLASS OPTIONS 1, 2 & 3

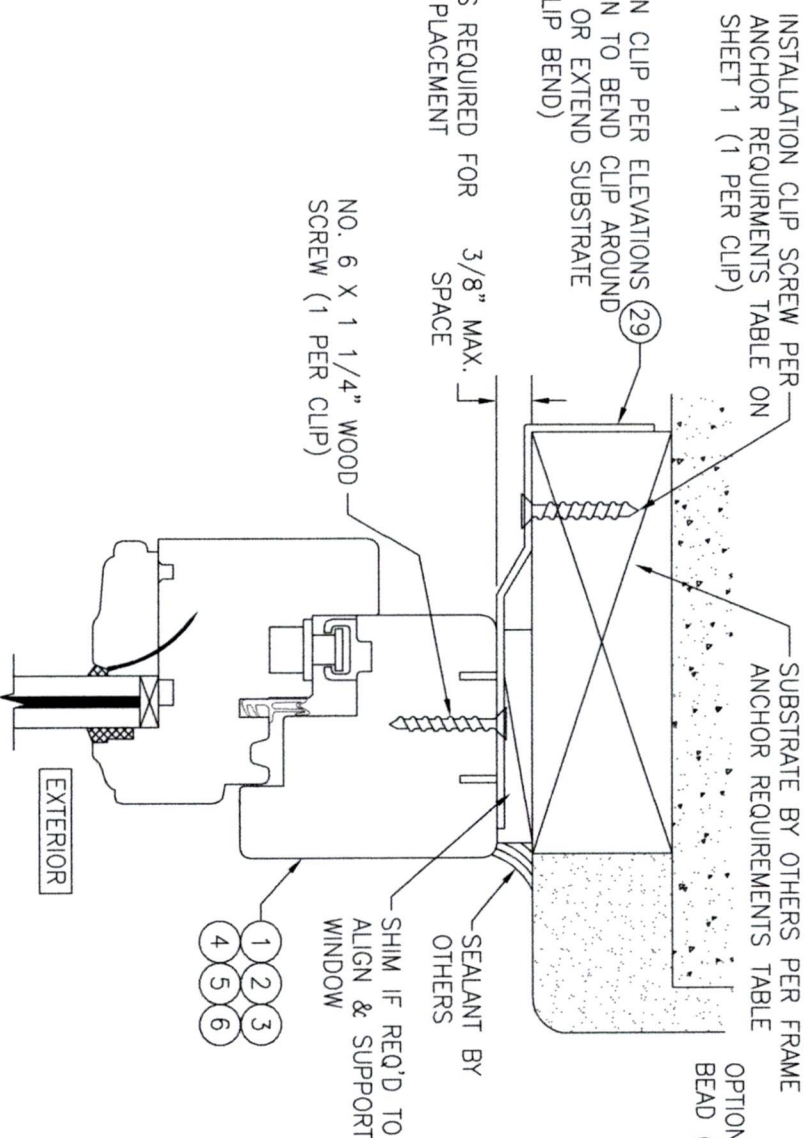
GLASS OPTION 1: 9/16" LAMINATED GLASS (1/4" AN./0.09" EASTMAN CHEMICAL CO. SAFLEX PVB/1/4" AN.)
GLASS OPTION 2: 9/16" LAMINATED GLASS (1/4" H.S./0.075" EASTMAN CHEMICAL CO. SAFLEX STORM/1/4" H.S.)
GLASS OPTION 3: 9/16" LAMINATED GLASS (1/4" AN./0.075" EASTMAN CHEMICAL CO. SAFLEX STORM/1/4" AN.)

MULLION SECTION NOTE
(APPLICABLE TO SECTIONS G1-G4)
SECTIONS SHOW FIXED MULLION TO OPERABLE. OPERABLE TO OPERABLE IS JOINED THE SAME.



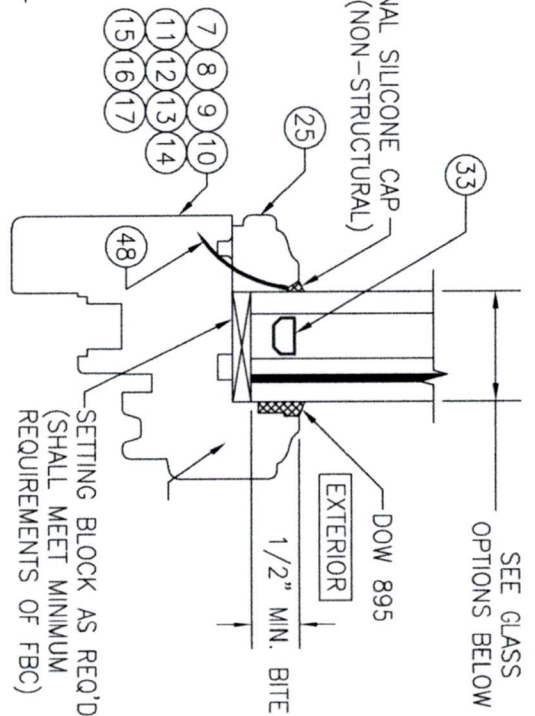
SECTION
SCALE: 1/2 FULL
G4
(REINFORCED MULLION)

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(SCREWED IN HINGE CONDITION SHOWN; CONCEALED & POT HINGE CONDITIONS ALSO APPLY)



OPTIONAL INSTALLATION CLIP DETAIL

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



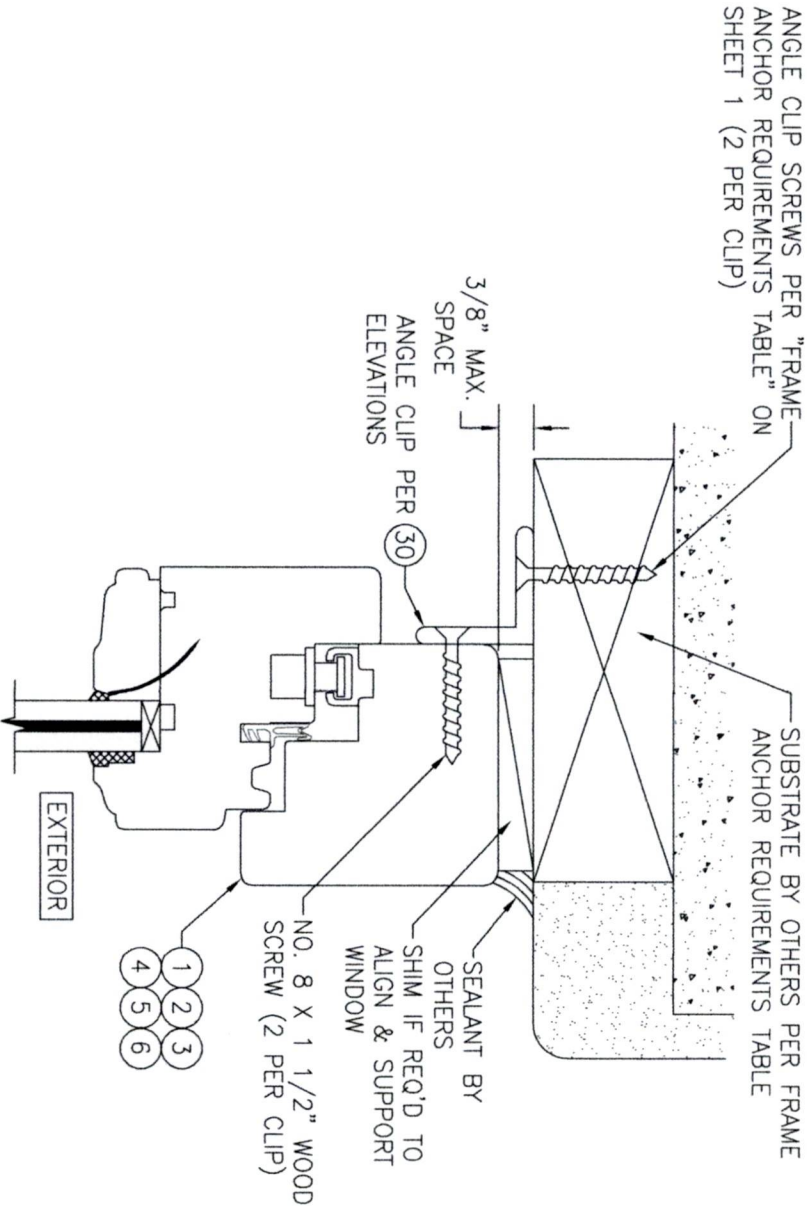
I.G. GLAZING DETAIL
GLASS OPTIONS 4, 5 & 6

GLASS OPTION 4: 1 3/16" LAMINATED I.G. (3/16" AN./0.09" EASTMAN CHEMICAL CO. SAFLEX PVB/3/16" AN./1/2" AIR SPACE/1/4 AN.)
GLASS OPTION 5: 1 3/16" LAMINATED I.G. (3/16" AN./0.09" EASTMAN CHEMICAL CO. SAFLEX PVB/3/16" AN./1/2" AIR SPACE/1/4 TEMP.)
GLASS OPTION 6: 1 3/16" LAMINATED I.G. (3/16" H.S./0.075" EASTMAN CHEMICAL CO. SAFLEX STORM/3/16" H.S./1/2" AIR SPACE/1/4 TEMP.)
NOTE: THE SINGLE PANE OF THE I.G GLASS SHALL BE TEMPERED WHEN REQUIRED TO CONFORM WITH CHAPTER 24 OF THE FLORIDA BUILDING CODE FOR USE OF GLASS IN HAZARDOUS LOCATIONS.

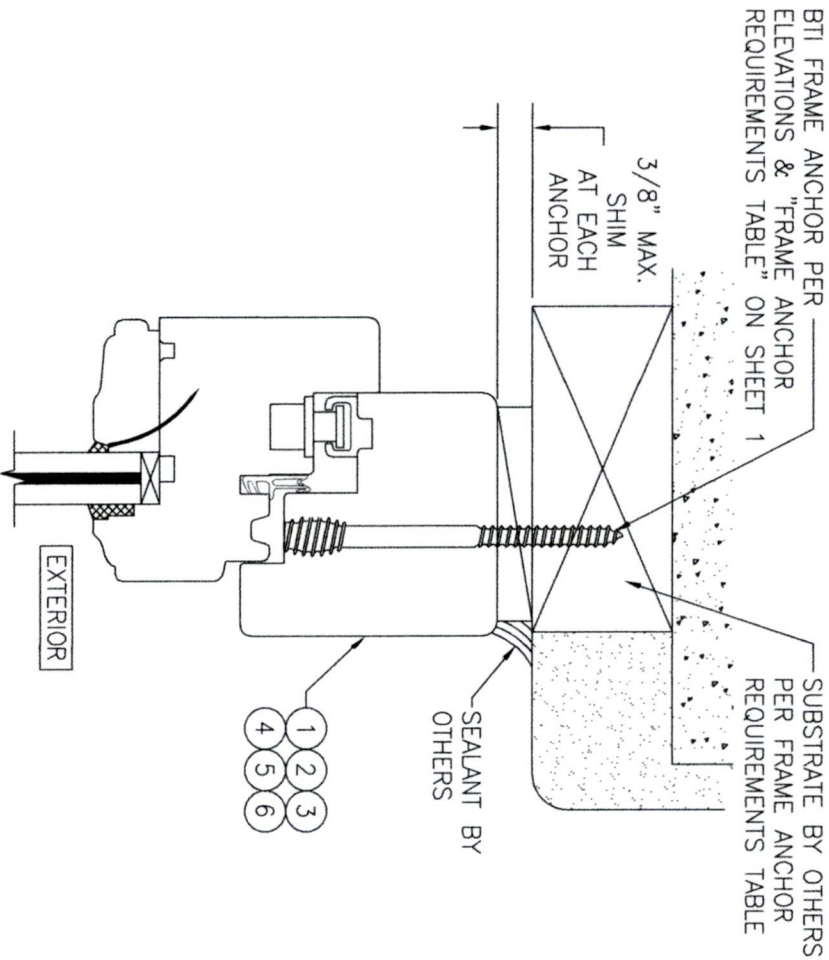
NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE	IN-SWING IMPACT WOOD CASEMENT WINDOW
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424
MANUFACTURER	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

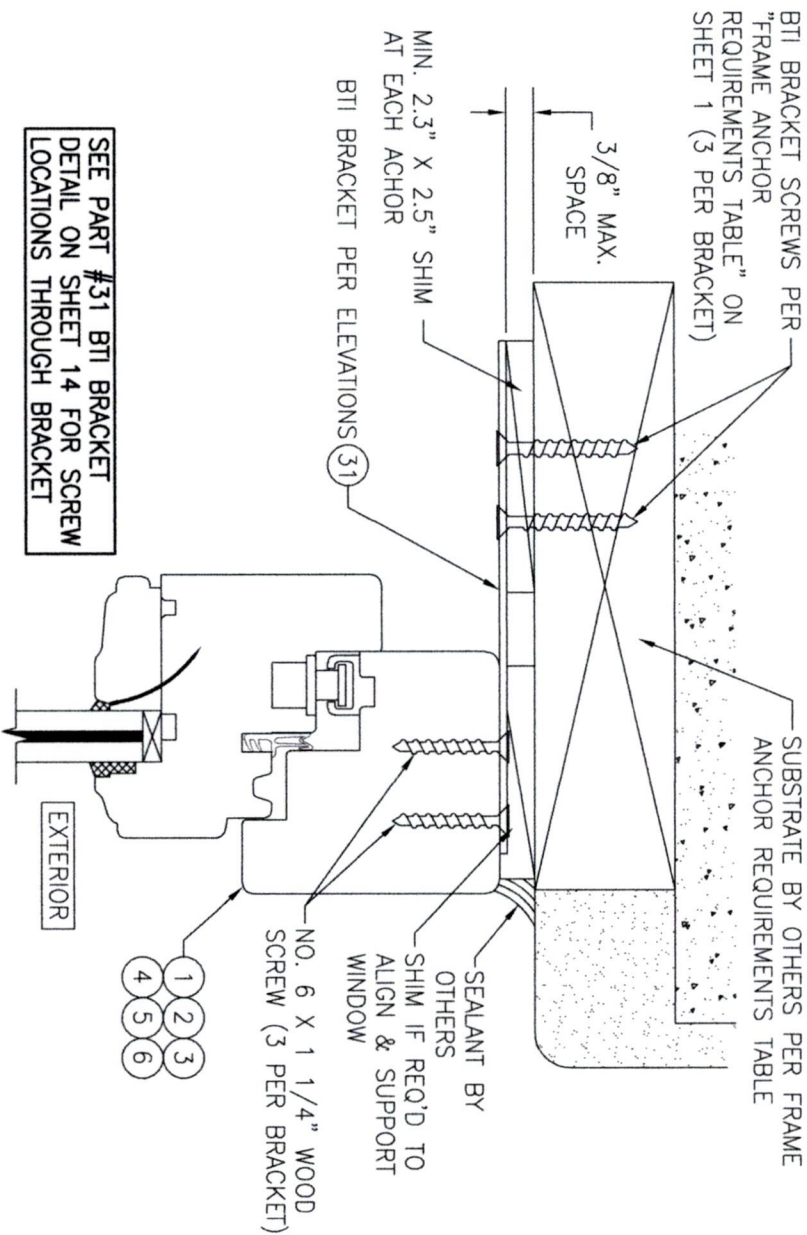
CERTIFICATION	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1531
SHEET NO.	11 OF 14



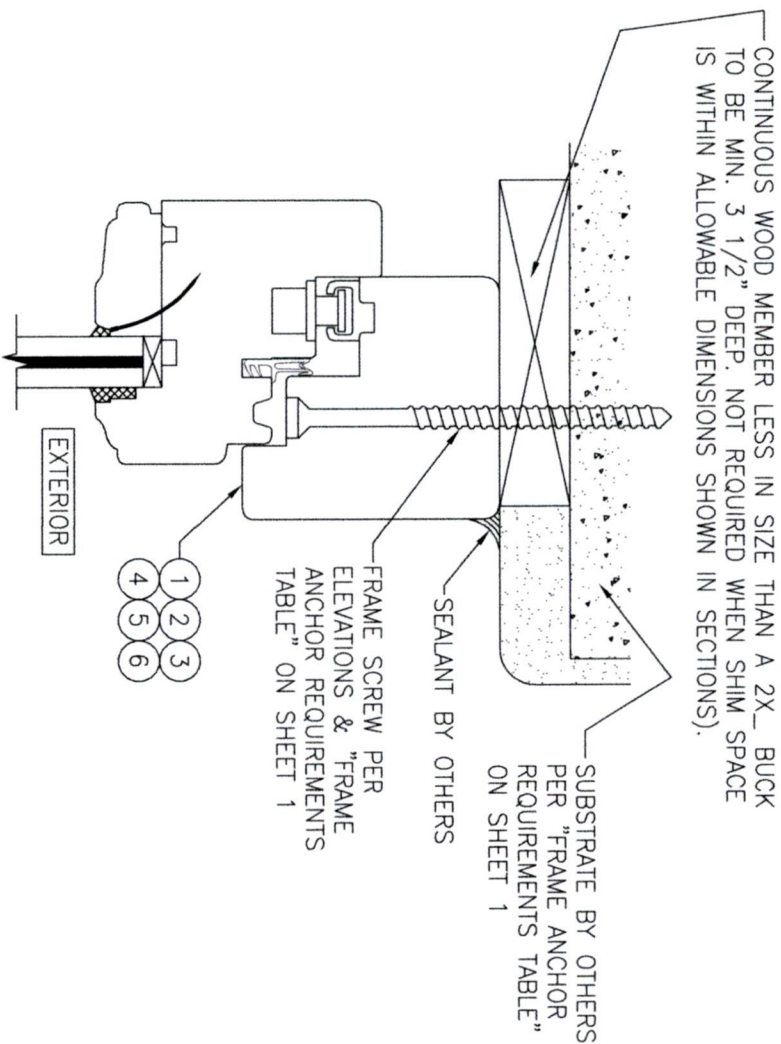
OPTIONAL INSTALLATION ANGLE CLIP DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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



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

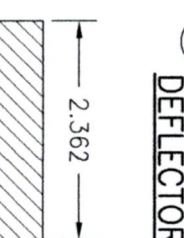
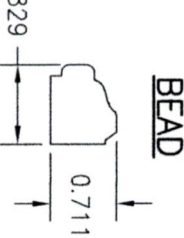
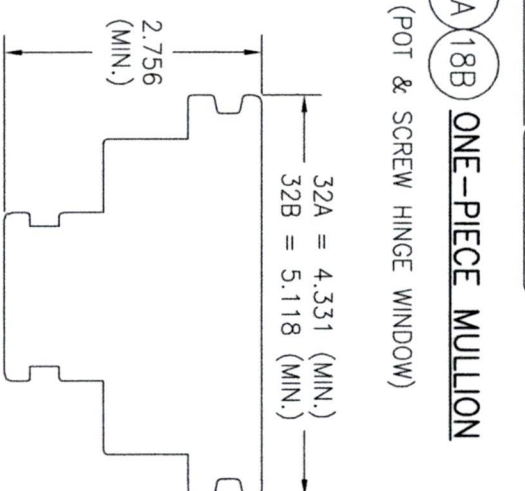
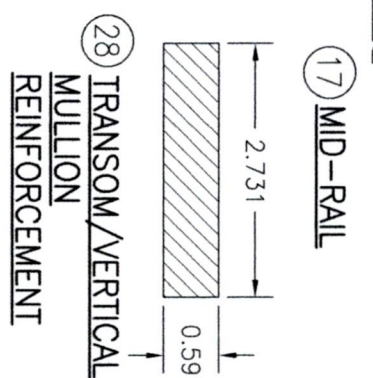
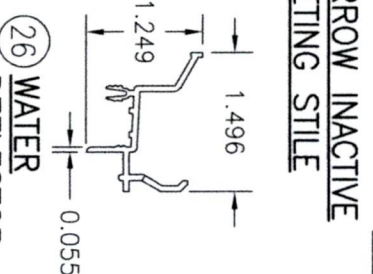
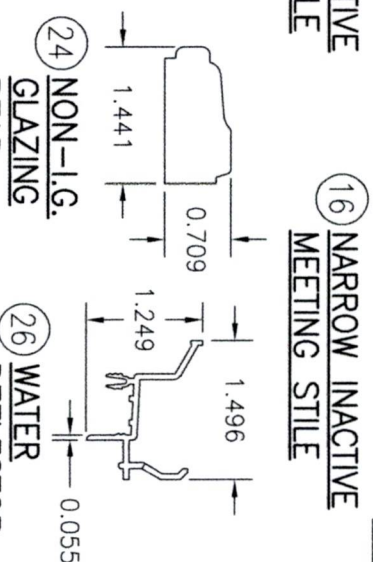
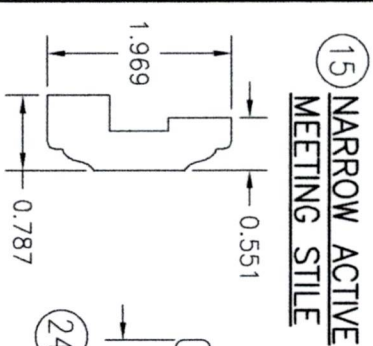
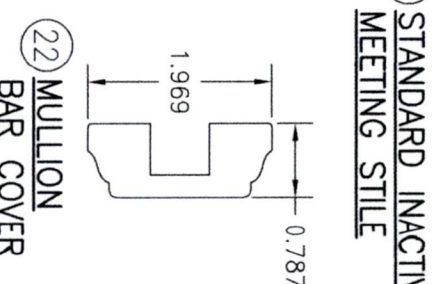
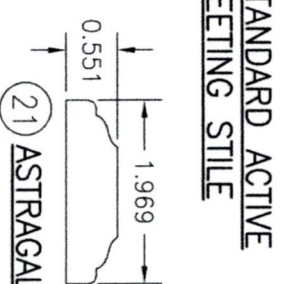
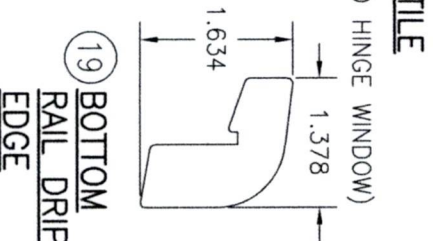
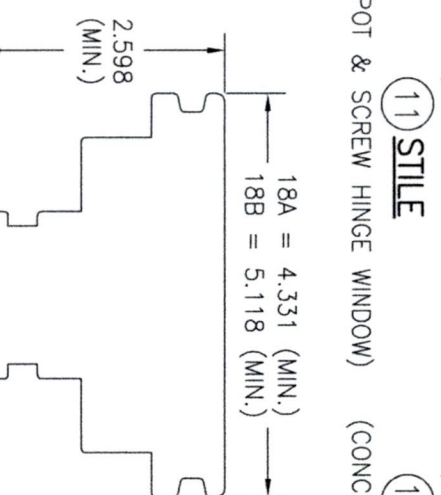
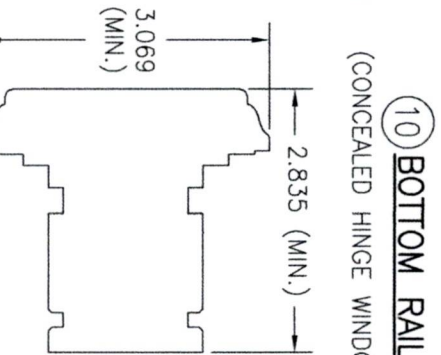
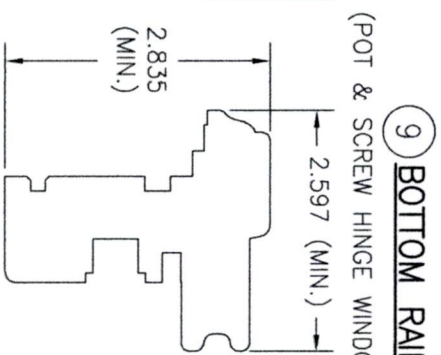
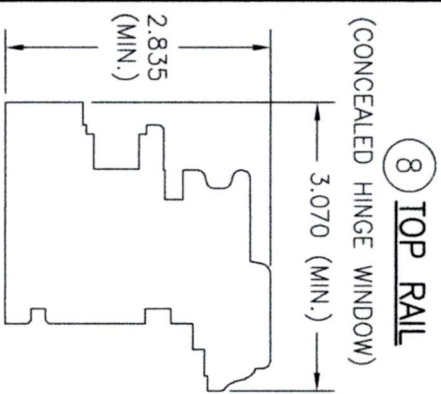
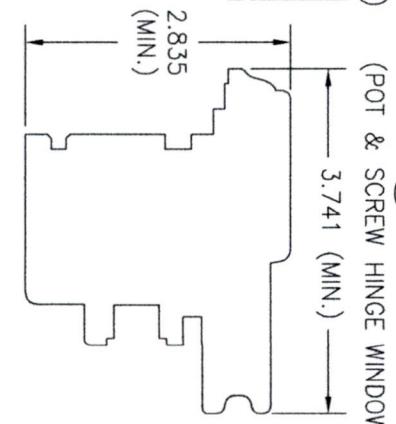
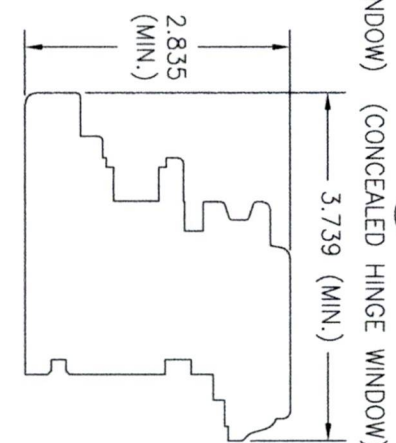
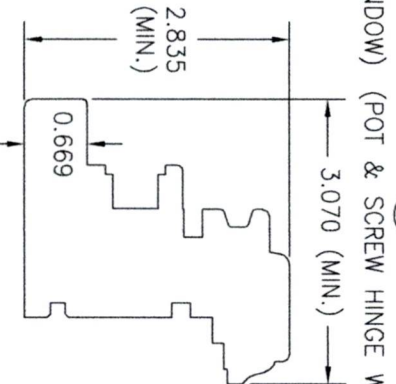
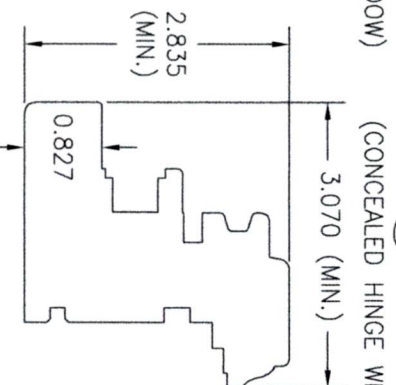
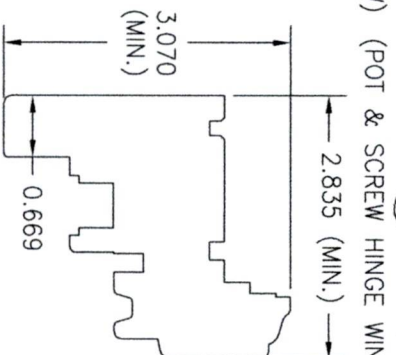
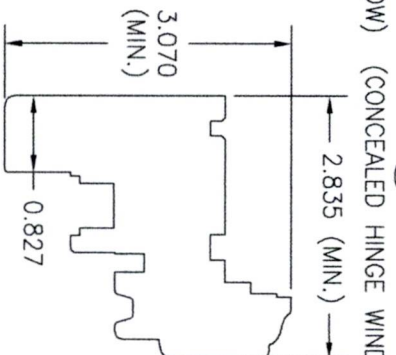
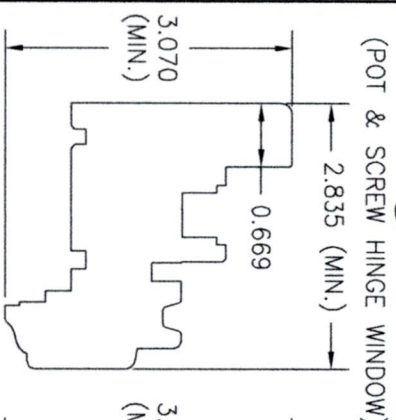
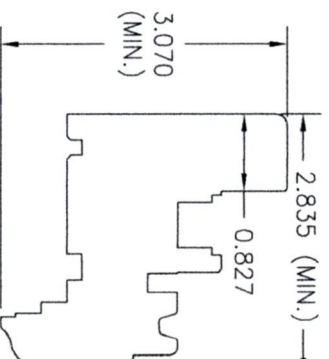
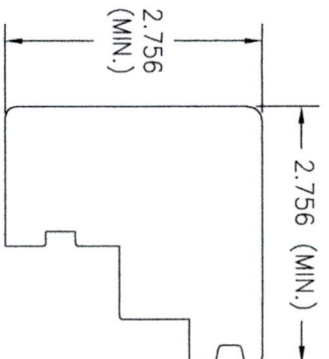
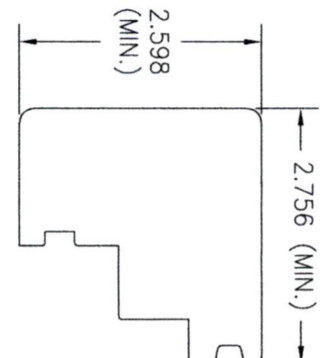
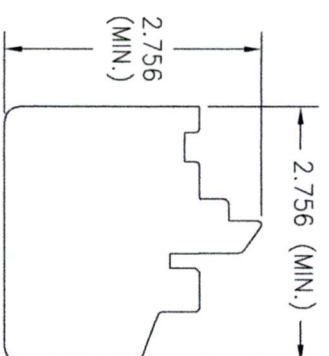
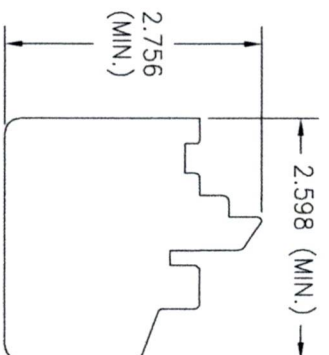
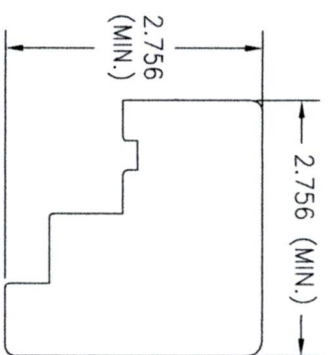
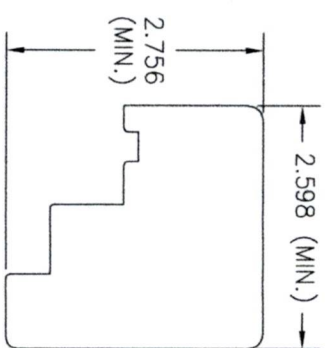


OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO.	REVISION	DESCRIPTION	BY	DATE	PLOT: 1=2	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
						DATE: 04/03/08	

DRAWING TITLE	
IN-SWING IMPACT WOOD CASEMENT WINDOW	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	TISCHLER UND SOHN (USA) LTD.
26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

CERTIFICATION	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1531	D
SHEET NO.	
12 OF 14	

[illegible]

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203-674-0600

CONSULTANTS
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& CONSULTING, P.A.**
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PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

13 OF 14	DRAWING NO.	D	<u>CERTIFICATION</u> _____ WARREN W. SCHAEFER, P.E.
	SHEET NO.		
	1531		

