

ALLOWABLE DESIGN PRESSURE
+/-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. 14 SMS OR WOOD SCREW	1 1/4"	1"
MIN. 16 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"
(2) MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
ANGLE CLIP INSTALLATION SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	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"
NARROW INSTALLATION BRACKET SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	3/4"
MIN. 16 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"
WIDE INSTALLATION BRACKET SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	3/4"
MIN. 16 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"
(2) MIN. C-90 CMU	(1) 3/16" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/2"	2"
ROLLER STILE END CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 18 SMS OR WOOD SCREW OR 5/16" LAG SCREW	1 1/2"	1"
MIN. 2500 PSI CONCRETE	(3) 5/16" CONCRETE SCREW	1 1/2"	2 1/2"
(1) CONCRETE 1/4" OR 3/16 SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.) OR HILTI KWIK-CON II (C.S OR S.S.). (2) CMU IS APPLICABLE AT SIDES ONLY (NOT APPLICABLE AT HEAD OR SILL). (3) 5/16" CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.)			

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.

CORNER CONSTRUCTION:

STANDARD FRAME HEAD & SILL: VERTICAL MEMBERS ARE COPED, BUTTED SECURED AND SEALED TO THE HEAD MEMBER WITH SIKASIL SG-20 STRUCTURAL SEALANT.
RADIUS SEGMENTED HEAD FRAME: HEAD MEMBER SEGMENTS ARE MITERED, BUTTED AND SECURED WITH FOUR(4) 3/8" 3 1/8" WOOD DOWELS PER HEAD SEGMENT. SEGMENTS ARE GLUED/SEALED WITH BINDAN D4 WOOD GLUE.
90 DEG. HEAD TRACK MEMBER: TRACK MEMBER SEGMENTS ARE MITERED, BUTTED AND SECURED WITH TWO(2) NO. 14 X 3 15/16" WOOD SCREWS THAT RUN THROUGH THE TRACK INTO THE ADJOINING HEAD MEMBER. CORNERS ARE SECURED AND SEALED WITH SIKASIL SG-20 STRUCTURAL SEALANT.
RADIUS SEGMENTED SILL MEMBER: SILL MEMBER SEGMENTS ARE MITERED AND BUTTED AND SECURED WITH TWO(2) 3/8" 3 1/8" WOOD DOWELS PER SEGMENT AND GLUED/SEALED WITH BINDAN D4 WOOD GLUE.
RADIUS SEGMENTED TRACK MEMBER: TRACK MEMBER SEGMENTS ARE MITERED, BUTTED AND FULLY WELDED.
90 DEG. SILL/SILL TRACK MEMBER: TRACK MEMBER SEGMENTS ARE MITERED, BUTTED AND SEALED WITH SIKASIL SG20. ADDITIONALLY A CORNER KEY IS USED (ITEM #42). THE CORNER KEY IS ATTACHED TO EACH SILL MEMBER WITH FOUR(4) m5 X 3/4" MACHINE SCREWS.
MID-RAIL ENDS: MID-RAIL IS COPED, BUTTED, AND SECURED WITH TWO(2) 3/8" X 3 1/8" WOOD DOWELS PER END. ENDS ARE GLUED/SEALED WITH BINDAN D4 WOOD GLUE.

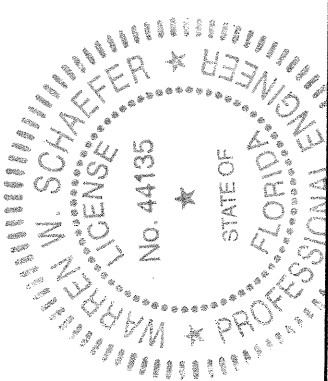
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DETAILED ELEVATIONS SHOWN ON SHEETS 2 THROUGH 7 ARE ONLY THOSE NECESSARY TO SHOW ALL APPLICABLE DOOR SECTIONS & ANCHOR CONDITIONS. FOR ALL ELEVATION CONFIGURATIONS APPLICABLE TO THIS APPROVAL, SEE SHEETS 9 THROUGH 11.

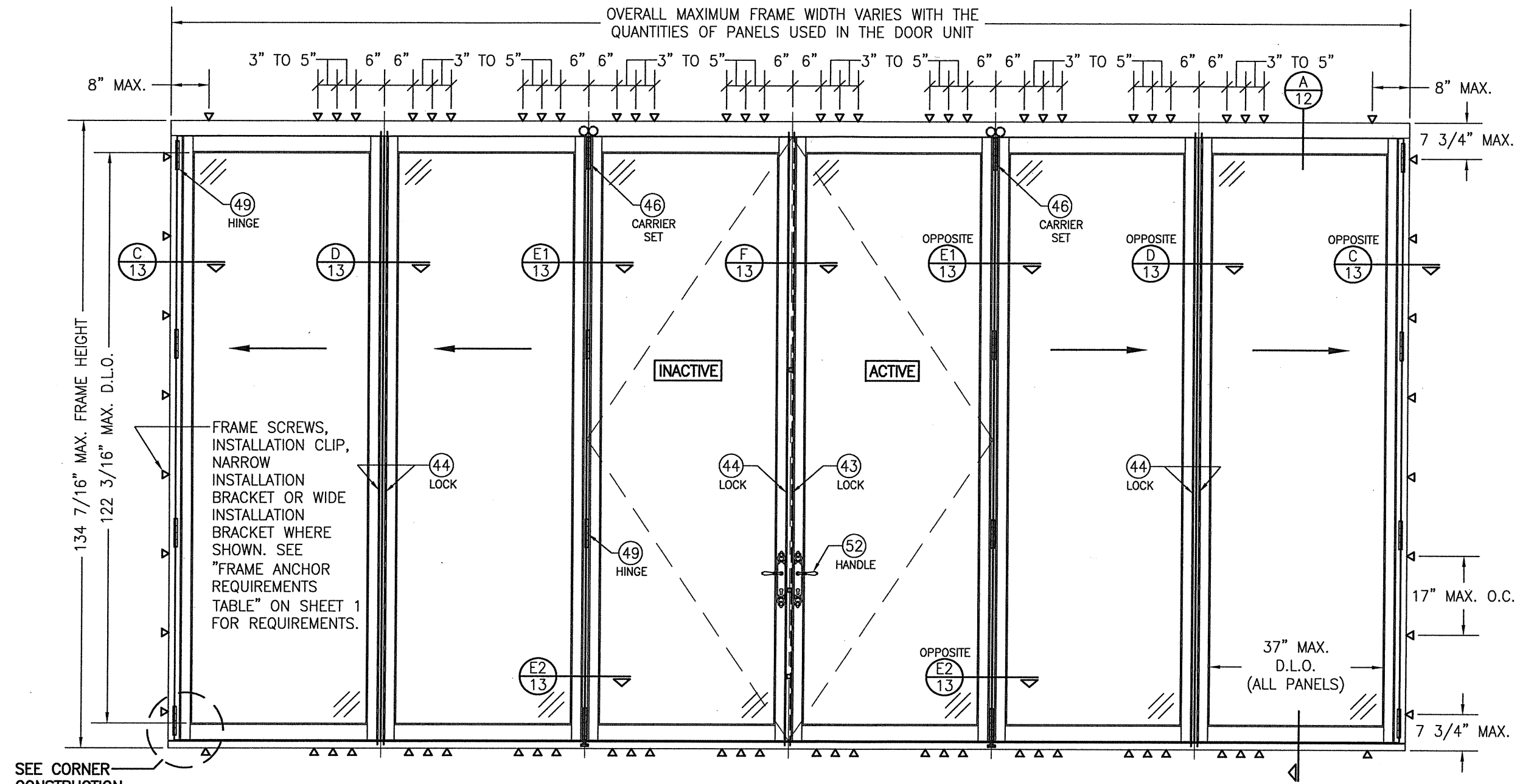
HINGE REQUIREMENTS

FRAME HEIGHT (IN.)	QUANTITY PER PANEL
OVER 93 15/16	4
93 15/16 AND LESS	3

EXTERIOR HINGES SHALL BE LOCATED APPROXIMATELY 3 7/8" FROM TOP & BOTTOM OF PANELS TO HINGE CENTERLINE.
INTERIOR HINGES SHALL BE LOCATED APPROXIMATELY 8" FROM TOP & BOTTOM OF PANELS TO HINGE CENTERLINE.

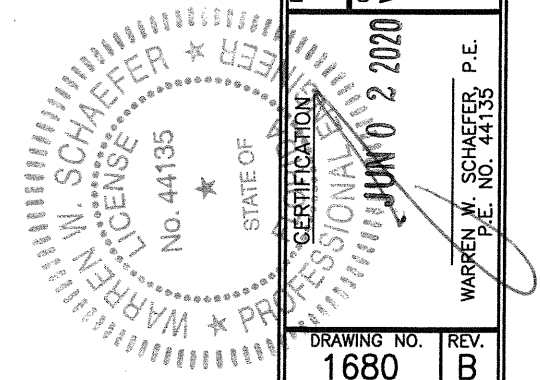
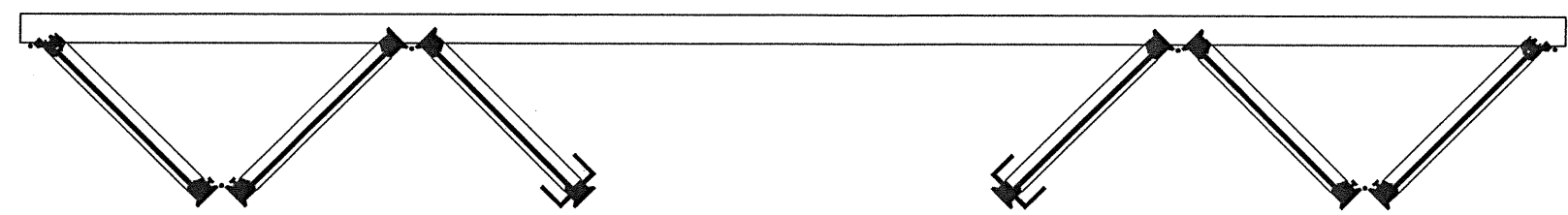


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PLOT: 1-24		DATE: 06/03/13	
DATE	04/17/18	DATE	04/17/20
BY	WWS	BY	WWS
REVISION	DESCRIPTION	NO.	DATE
A1	UPDATE GENERAL NOTES & ANCHOR TABLE	B1	CHANGE TO STATE APPROVAL
DRAWING TITLE WOOD IMPACT OUT-SWING BI-FOLD DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887	
CERTIFICATION JUN 02 2020		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1680		REV. B	
SHEET NO. 1		OF 19	

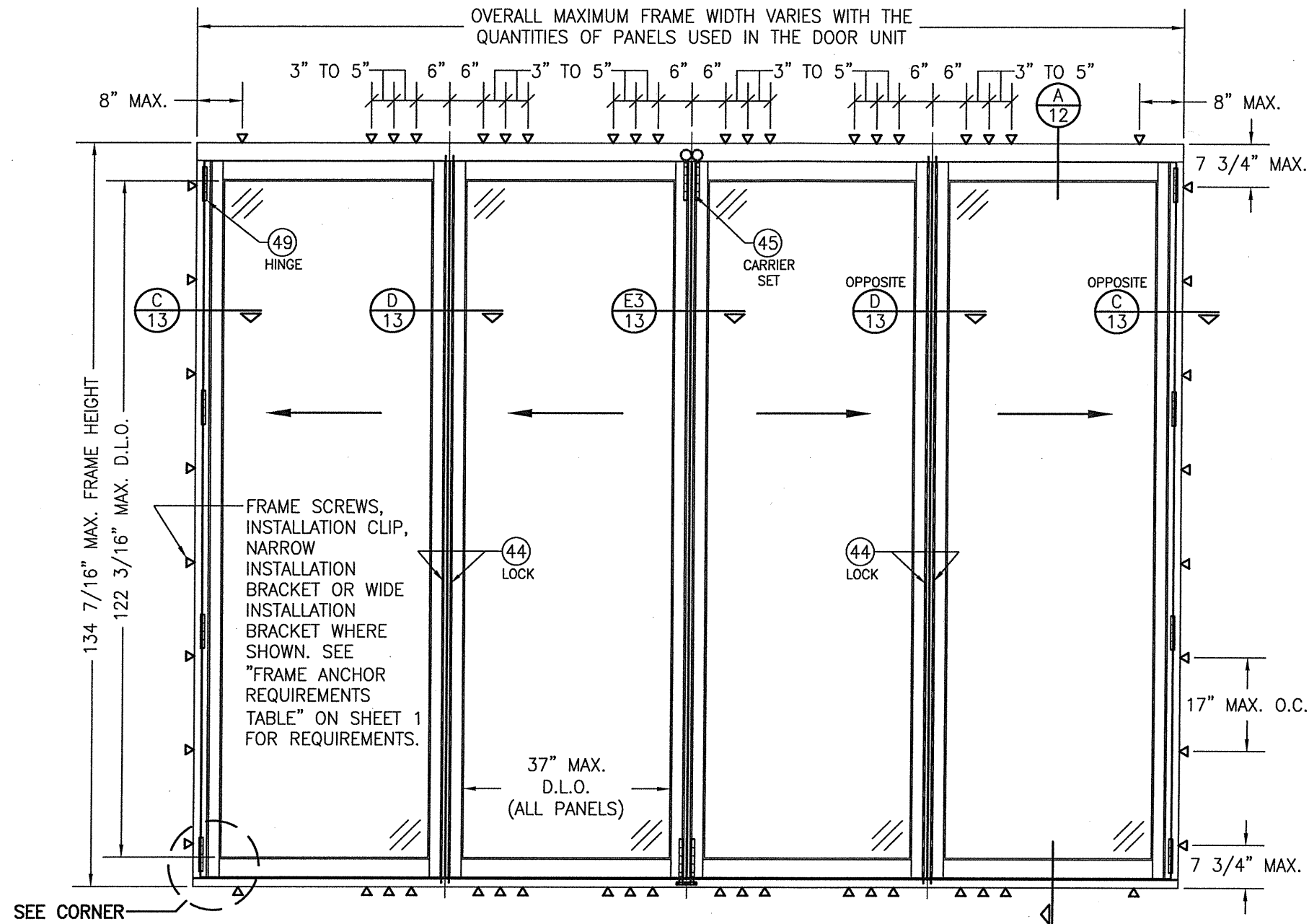


SEE CORNER
CONSTRUCTION
DESCRIPTIONS
ON SHEET 1

EXTERIOR ELEVATION:
LEFT & RIGHT DIRECTION BI-FOLD DOOR WITH DOUBLE SWING PANELS
SCALE: 1/2" = 1'-0"



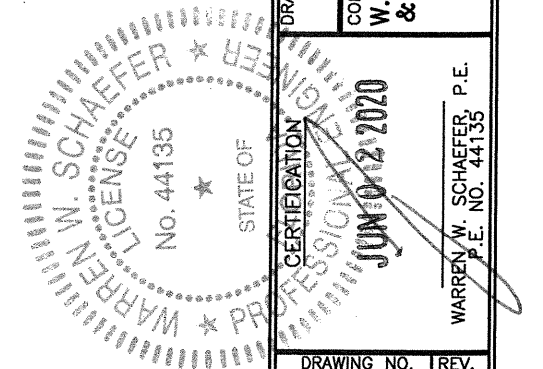
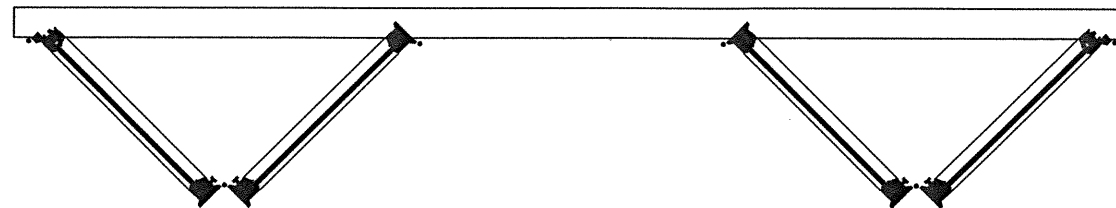
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PLOT: 1=24		DATE: 06/03/13	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: WOOD IMPACT OUT-SWING BI-FOLD DOORS MANUFACTURER: PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 CERTIFICATION: JUN 02 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1680		REV. B	
SHEET NO. 2		OF 19	



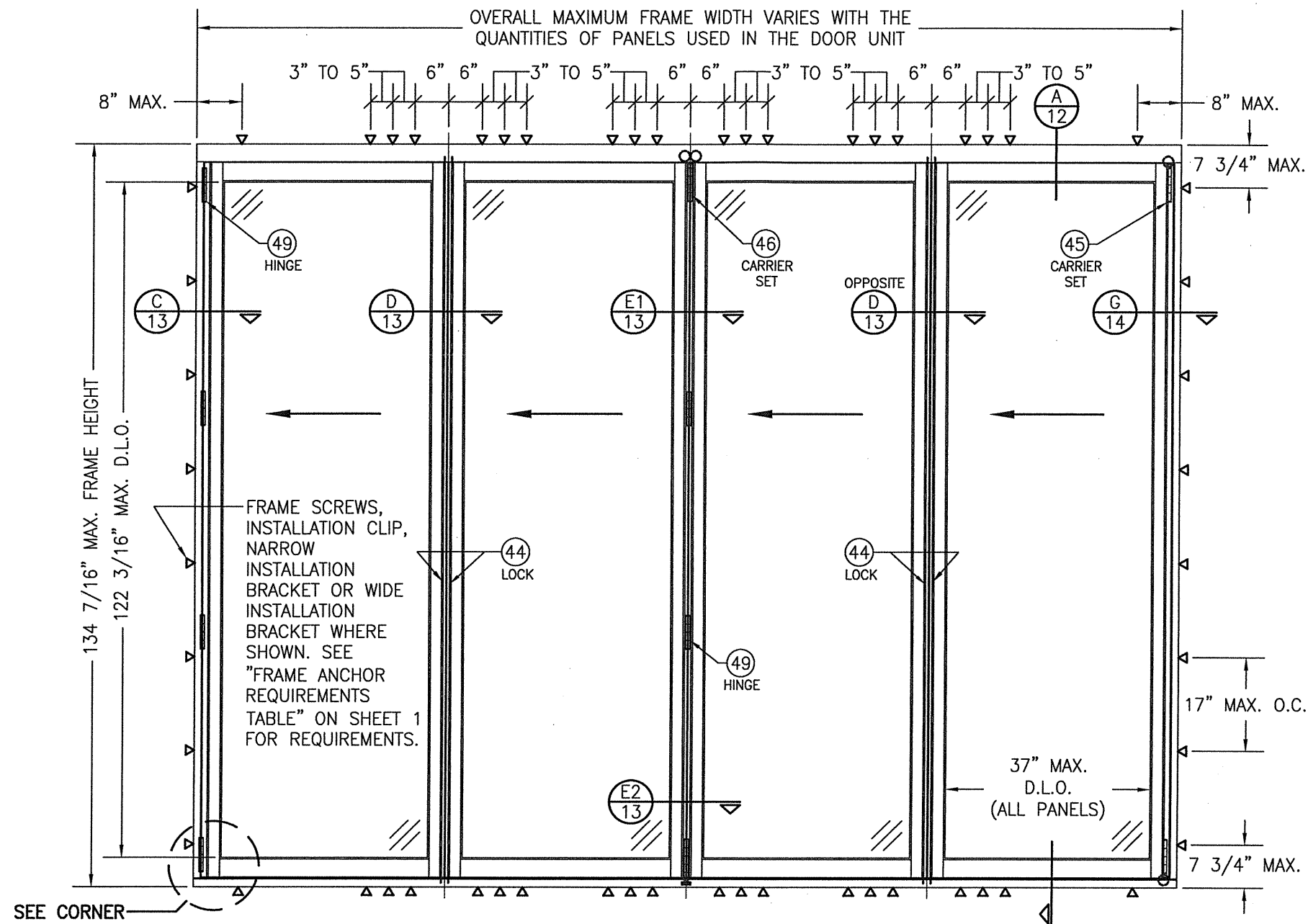
SEE CORNER
CONSTRUCTION
DESCRIPTIONS
ON SHEET 1

FRAME SCREWS,
INSTALLATION CLIP,
NARROW
INSTALLATION
BRACKET OR WIDE
INSTALLATION
BRACKET WHERE
SHOWN. SEE
"FRAME ANCHOR
REQUIREMENTS
TABLE" ON SHEET 1
FOR REQUIREMENTS.

EXTERIOR ELEVATION:
LEFT & RIGHT DIRECTION BI-FOLD DOOR
SCALE: 1/2" = 1'-0"

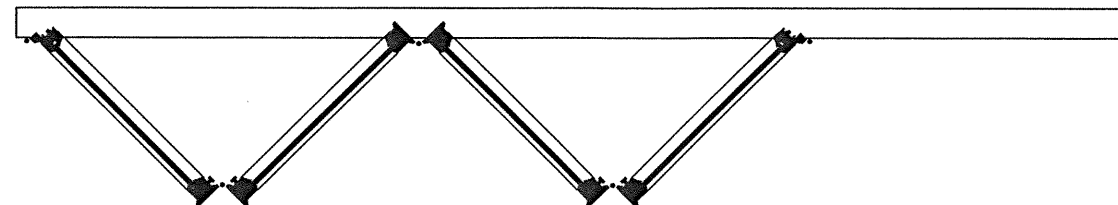


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DRAWING NO. 1680		REV. B	
SHEET NO. 3		OF 19	

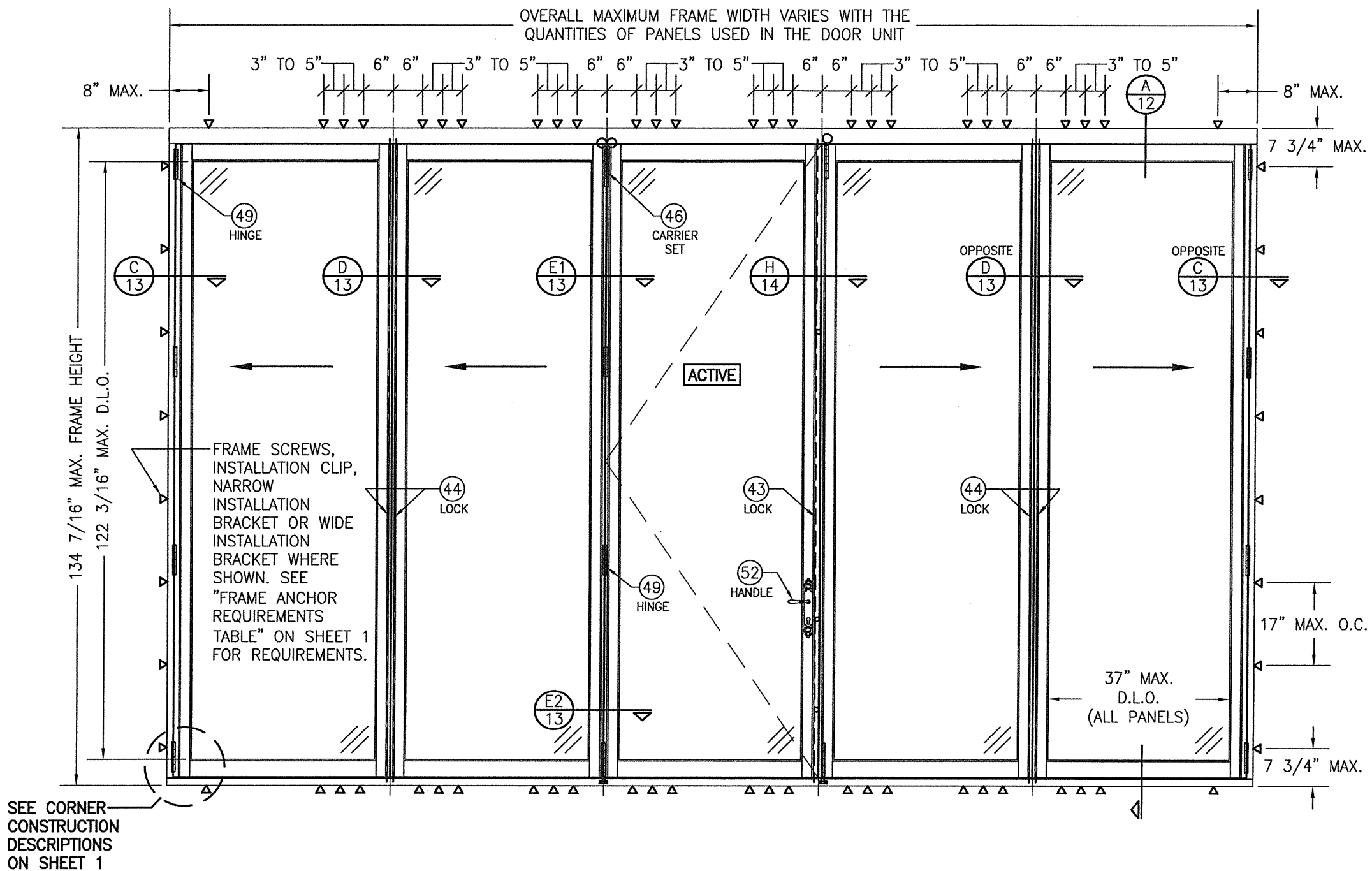


SEE CORNER
CONSTRUCTION
DESCRIPTIONS
ON SHEET 1

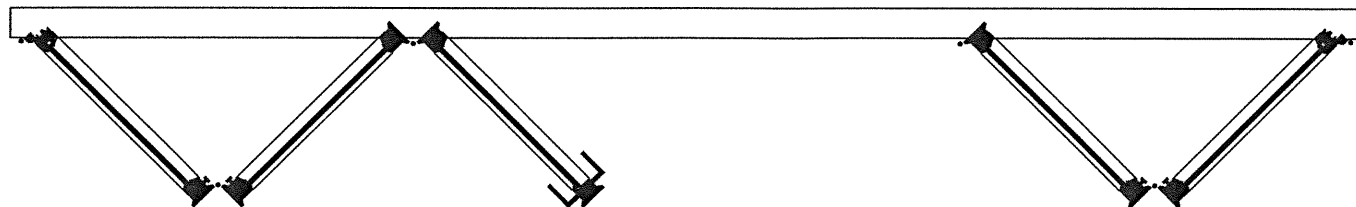
EXTERIOR ELEVATION:
SINGLE DIRECTION BI-FOLD DOOR
SCALE: 1/2" = 1'-0"



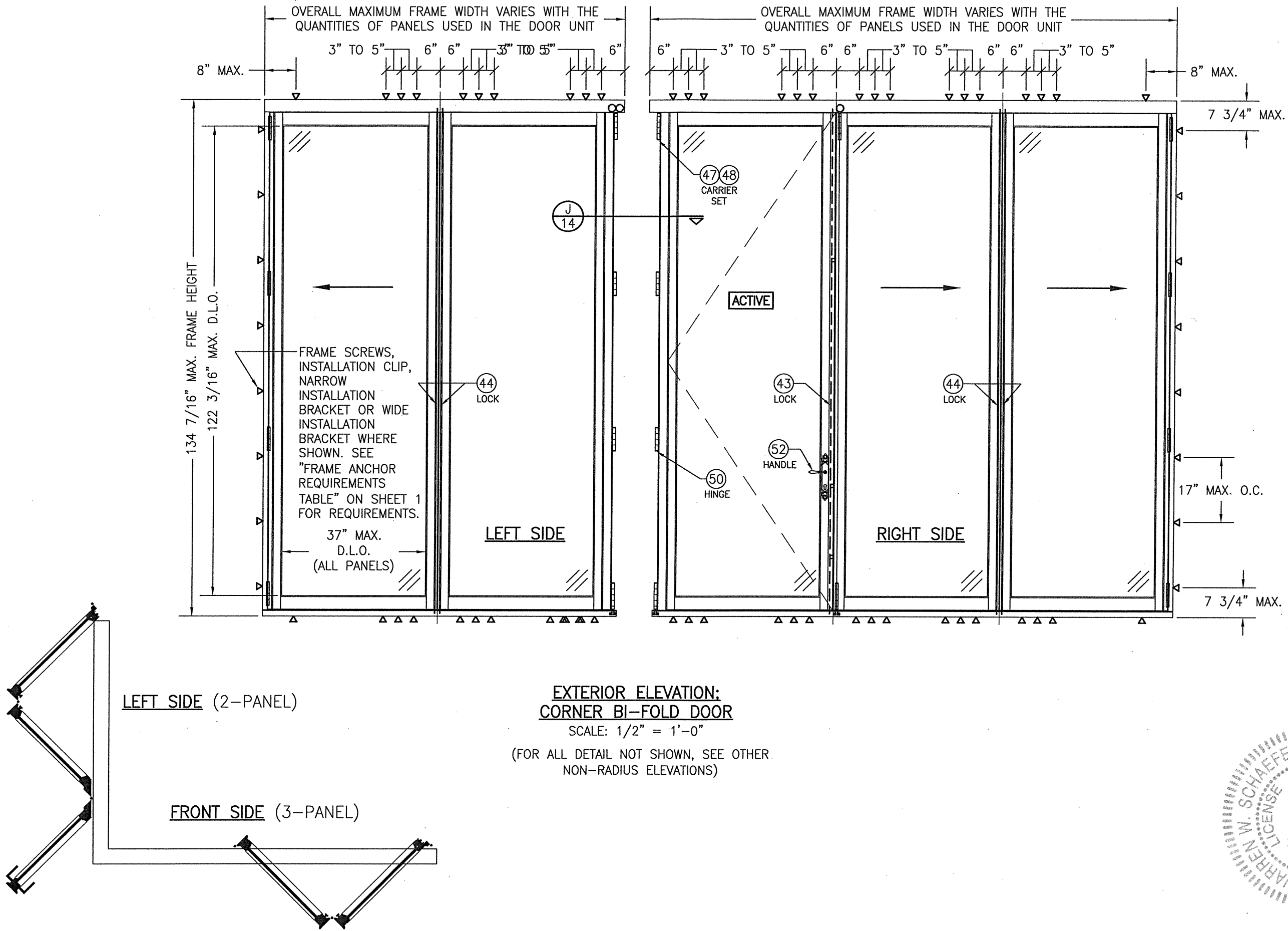
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DRAWING NO. 1680		REV. B	
SHEET NO. 4 OF 19			



EXTERIOR ELEVATION:
LEFT & RIGHT DIRECTION BI-FOLD DOOR WITH SINGLE SWING PANEL
SCALE: 1/2" = 1'-0"



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CERTIFICATION JUN 02 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
DRAWING NO. 1680		REV. B		
SHEET NO. 5 OF 19				

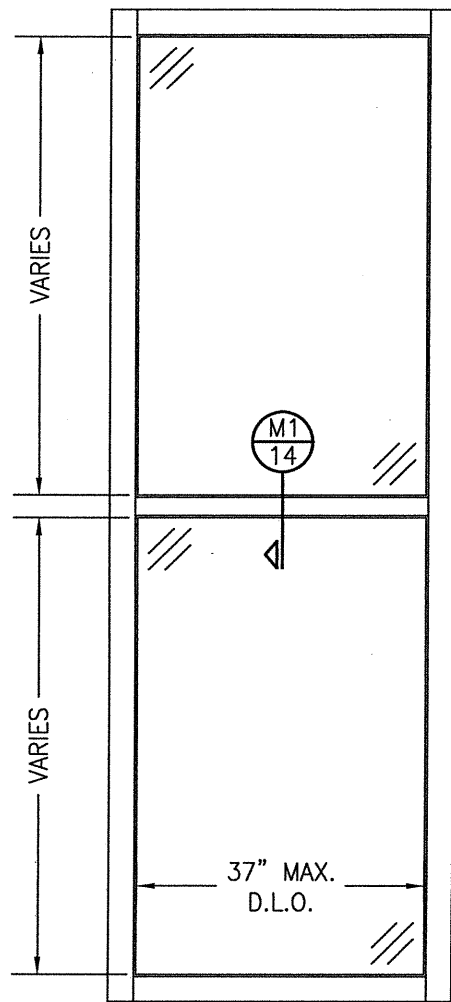


**EXTERIOR ELEVATION:
CORNER BI-FOLD DOOR**

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

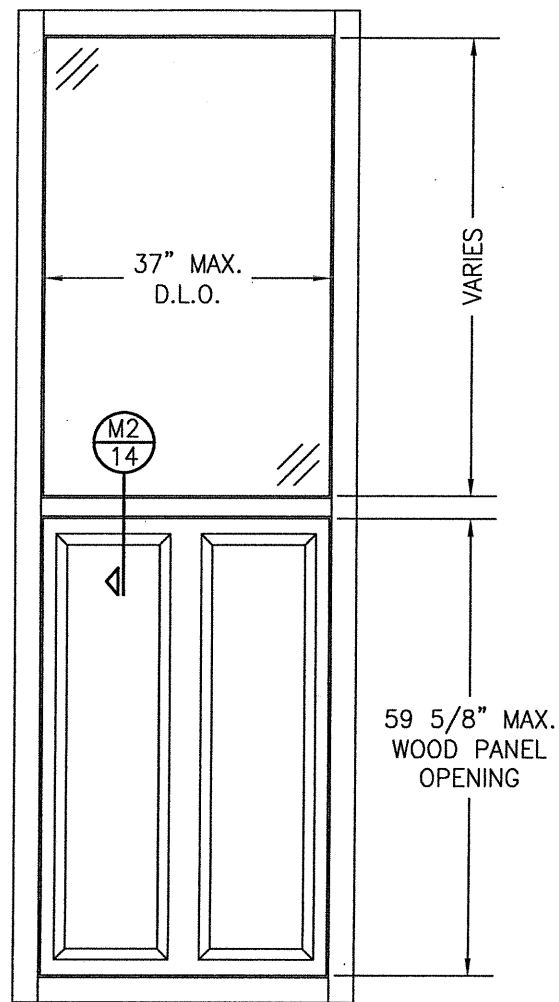
(FOR ALL DETAIL NOT SHOWN, SEE OTHER
NON-RADIUS ELEVATIONS)

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CERTIFICATION: WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA JUN 02 2020		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1680		REV. B	
SHEET NO. 7		OF 19	



**GLASS DOOR PANEL WITH
MID-RAIL**

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



**PARTIAL WOOD PANEL
DOOR WITH MID-RAILS**

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

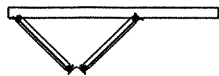
PANEL NOTES

1. ONE HORIZONTAL MID-RAIL IS SHOWN IN EACH ELEVATION. MULTIPLE HORIZONTAL MID-RAILS MAY BE PLACED IN EITHER A GLASS PANEL OR PARTIAL WOOD PANEL DOOR.
2. WITH PARTIAL WOOD PANEL DOORS, THE WOOD PANELS MUST BE CONTINUOUS BETWEEN HORIZONTAL MID-RAILS. IF VERTICAL MID-RAILS ARE DESIRED BETWEEN THE HORIZONTAL MID-RAILS, THEY MUST BE FALSE RAILS SUCH THAT THEY ARE LAMINATED TO THE PLYWOOD PANEL SURFACE.

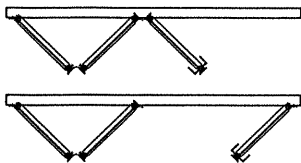
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CERTIFICATION WARREN W. SCHAEFER, P.E. No. 44135 STATE OF FLORIDA JUN 02 2020			
DRAWING NO. 1680		REV. B	
SHEET NO. 8 OF 19			

STRAIGHT LINE LAYOUT

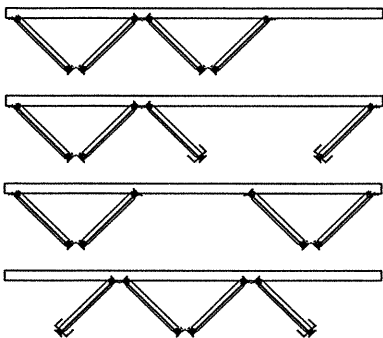
2 - PANEL



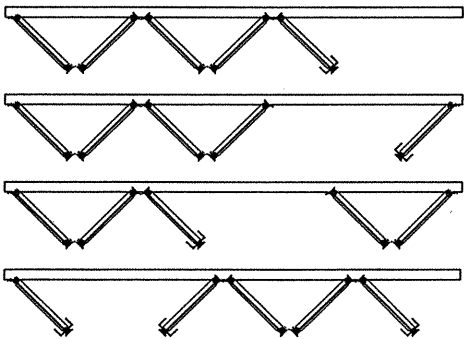
3 - PANEL



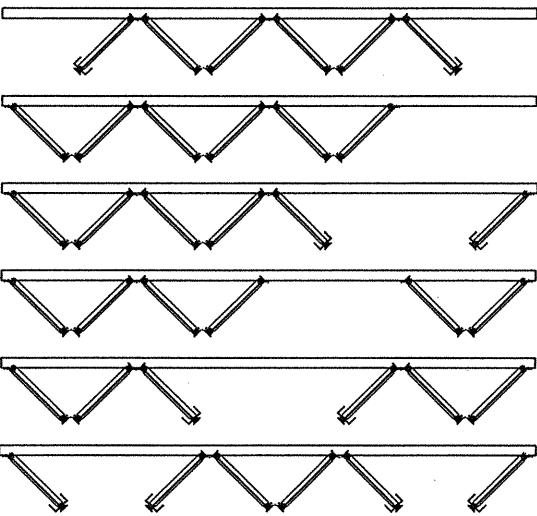
4 - PANEL



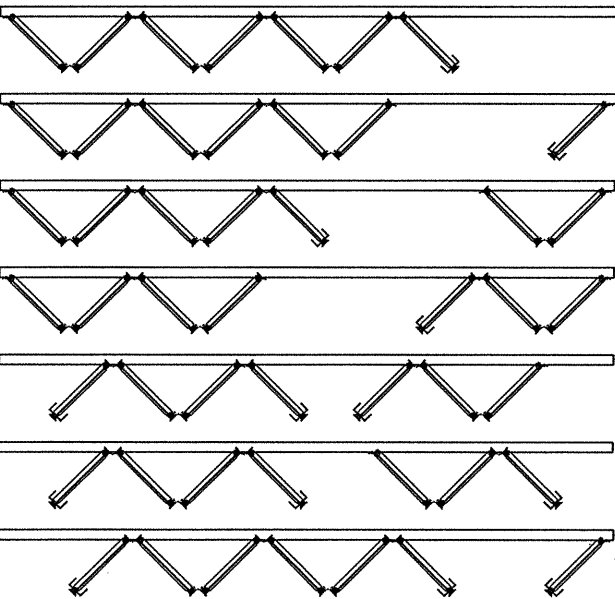
5 - PANEL



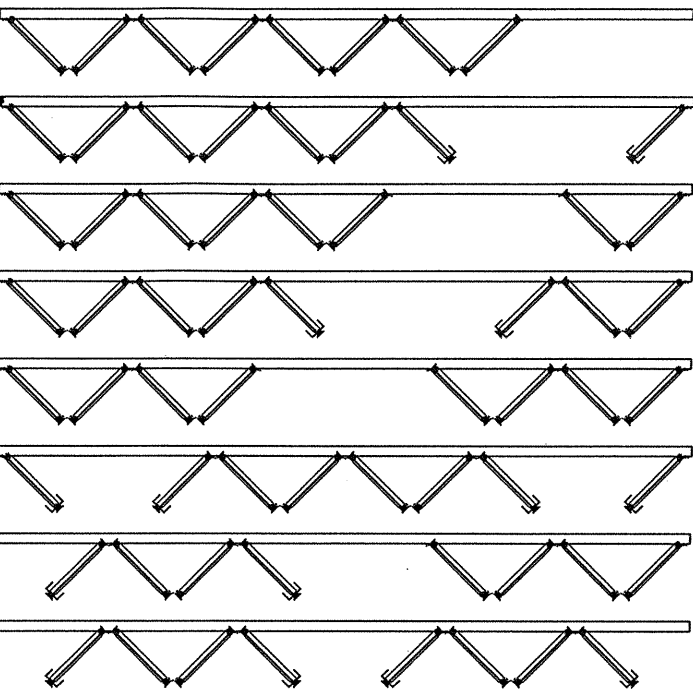
6 - PANEL



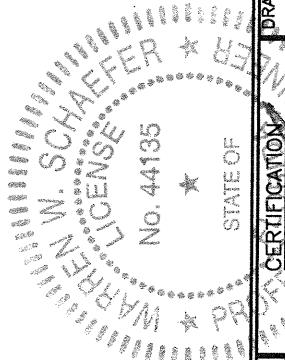
7 - PANEL



8 - PANEL



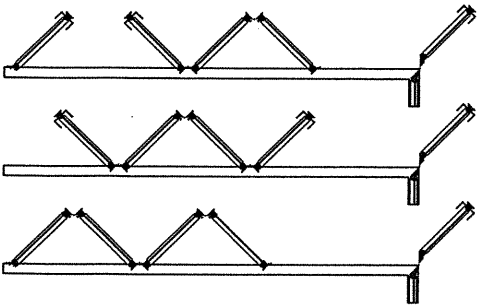
WHILE UP TO 8 PANELS IN ONE OPENING IS SHOWN, THERE IS NO LIMIT TO THE NUMBER OF PANELS IN ONE DOOR FRAME OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE DOOR SYSTEM



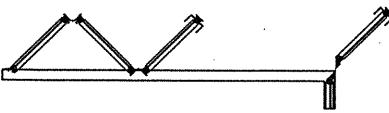
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MANUFACTURER PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887				
CERTIFICATION JUN 02 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
DRAWING NO. 1680		REV. B		
SHEET NO. 9 OF 19				

90° CORNER LAYOUT

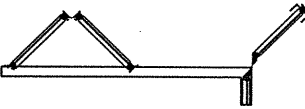
CONFIGURATIONS FOR RIGHT SIDE PANELS,
VIEWED FROM EXTERIOR.



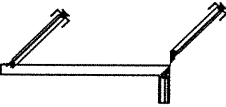
5 - PANEL



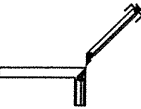
4 - PANEL



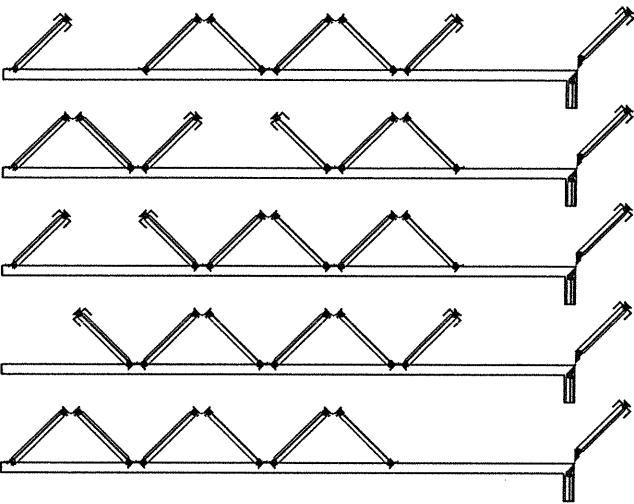
3 - PANEL



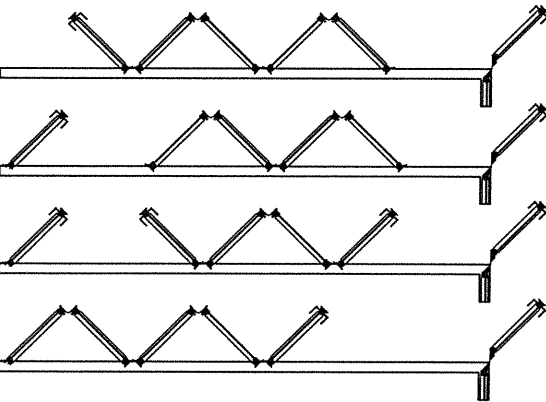
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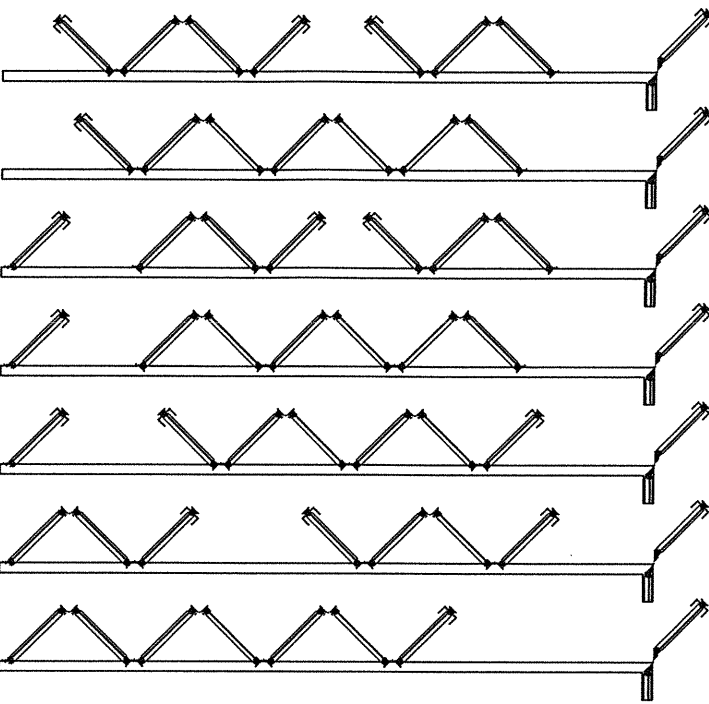
1 - PANEL



7 - PANEL



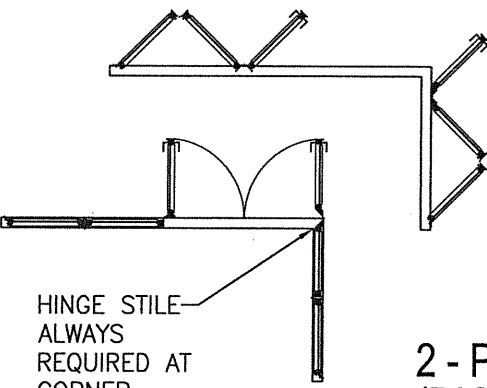
6 - PANEL



8 - PANEL

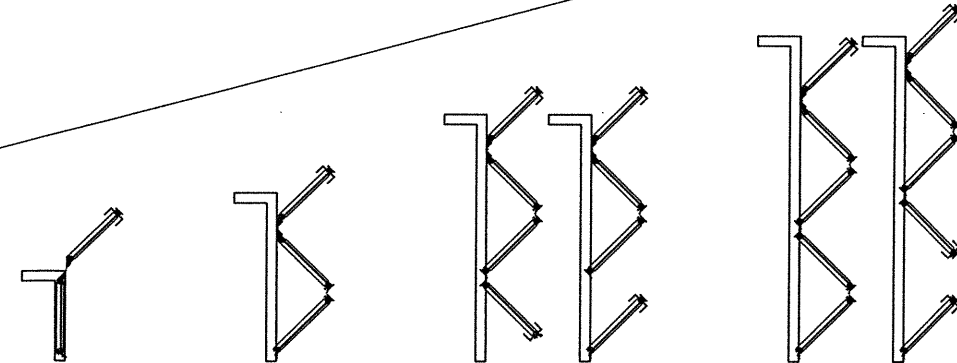
90° CORNER COMBINING
X - PANELS RIGHT SIDE
Y - PANELS LEFT SIDE
VIEWED FROM EXTERIOR.

EXAMPLE:
4 - PANEL (LEFT SIDE)

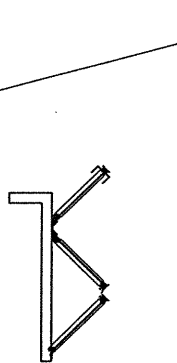


2 - PANEL
(RIGHT SIDE)

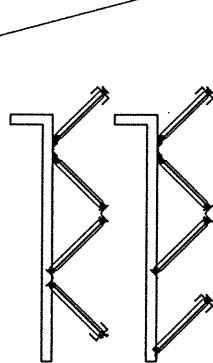
WHILE UP TO 8 PANELS IN ONE OPENING IS SHOWN, THERE
IS NO LIMIT TO THE NUMBER OF PANELS IN ONE DOOR
FRAME OPENING PROVIDING THE OPENING IS DESIGNED TO
SUPPORT THE LOADS TRANSFERRED FROM THE DOOR SYSTEM



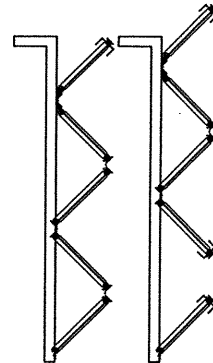
1 - PANEL



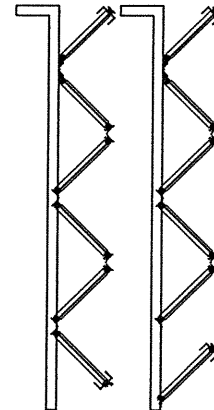
2 - PANEL



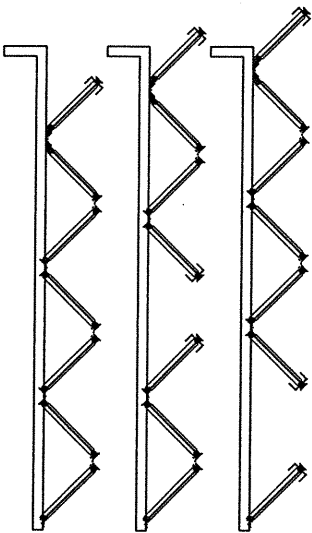
3 - PANEL



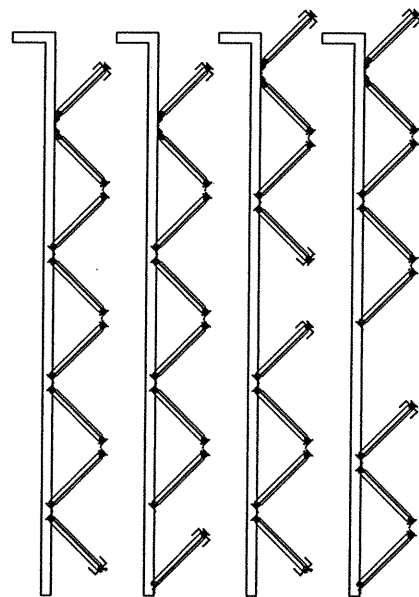
4 - PANEL



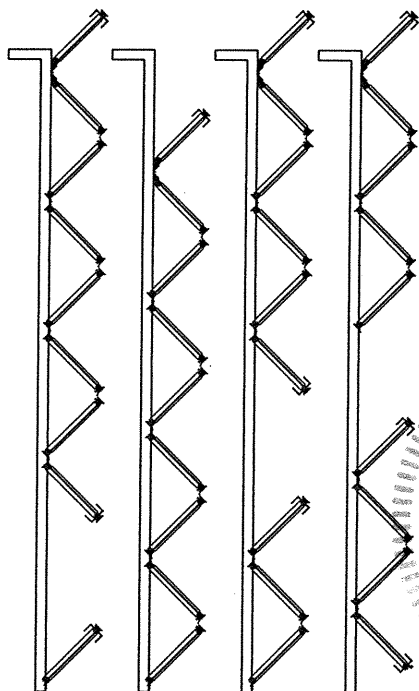
5 - PANEL



6 - PANEL



7 - PANEL



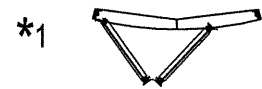
8 - PANEL

CONFIGURATIONS FOR LEFT SIDE PANELS,
VIEWED FROM EXTERIOR.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 06/03/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: WOOD IMPACT OUT-SWING BI-FOLD DOORS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
MANUFACTURER: PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887			
CERTIFICATIONS: JUN 02 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 41135			
DRAWING NO. 1680		REV. B	
SHEET NO. 10 OF 19			

CURVED LAYOUT

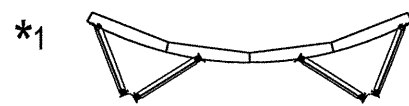
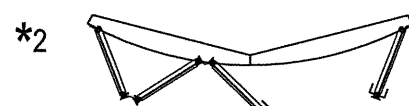
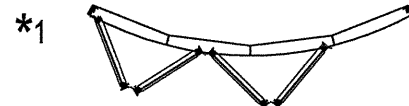
2 - PANEL



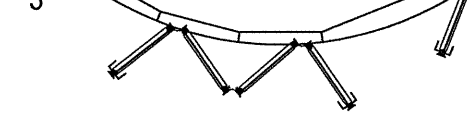
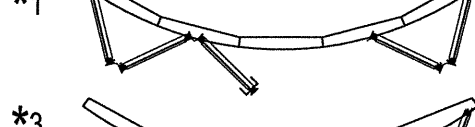
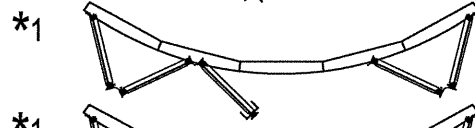
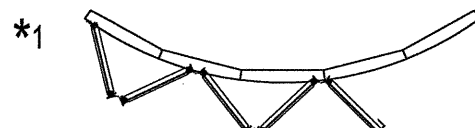
3 - PANEL



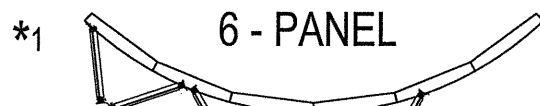
4 - PANEL



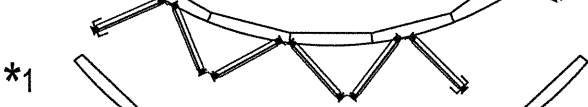
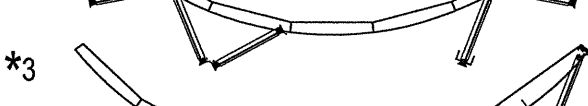
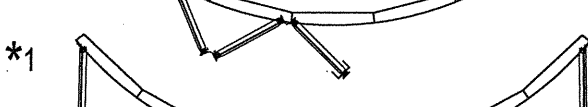
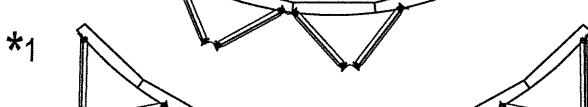
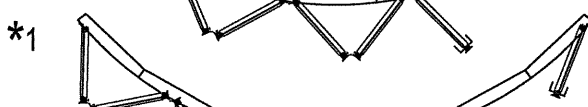
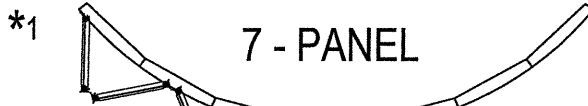
5 - PANEL



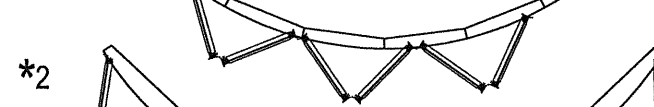
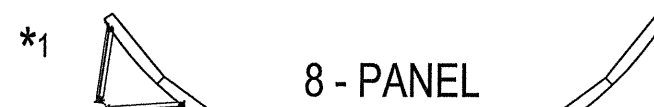
6 - PANEL



7 - PANEL

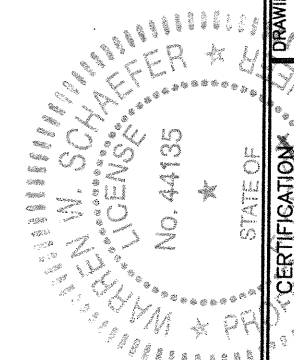


8 - PANEL

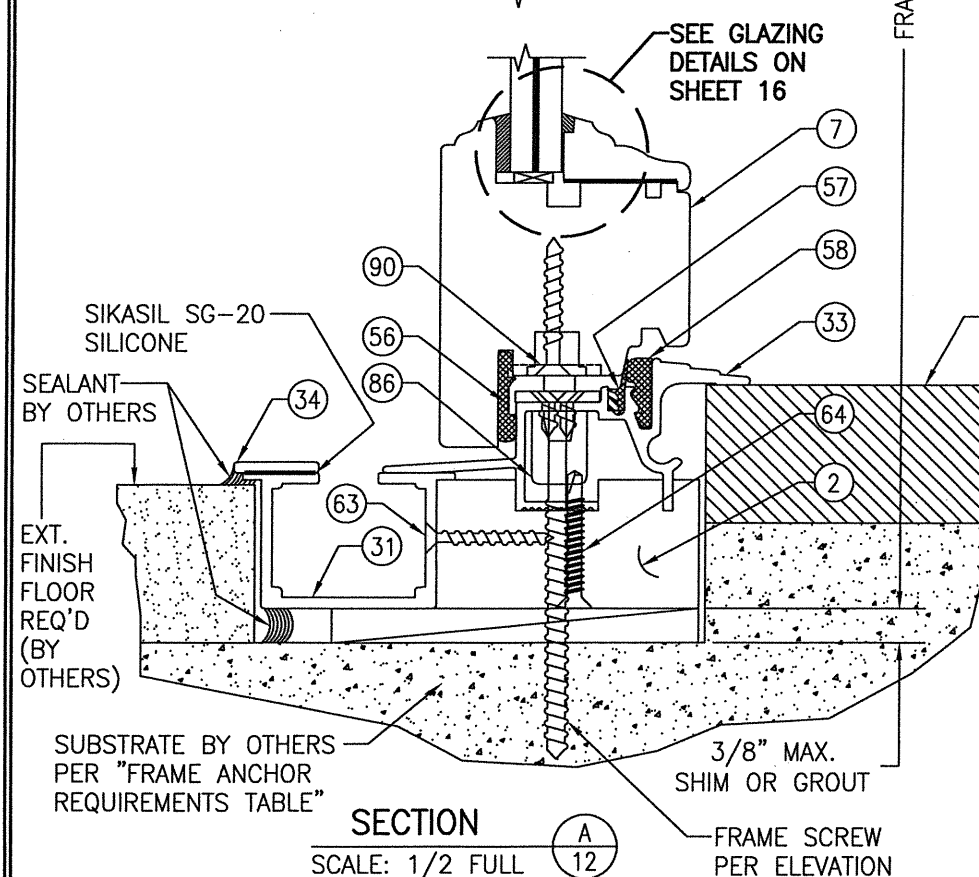
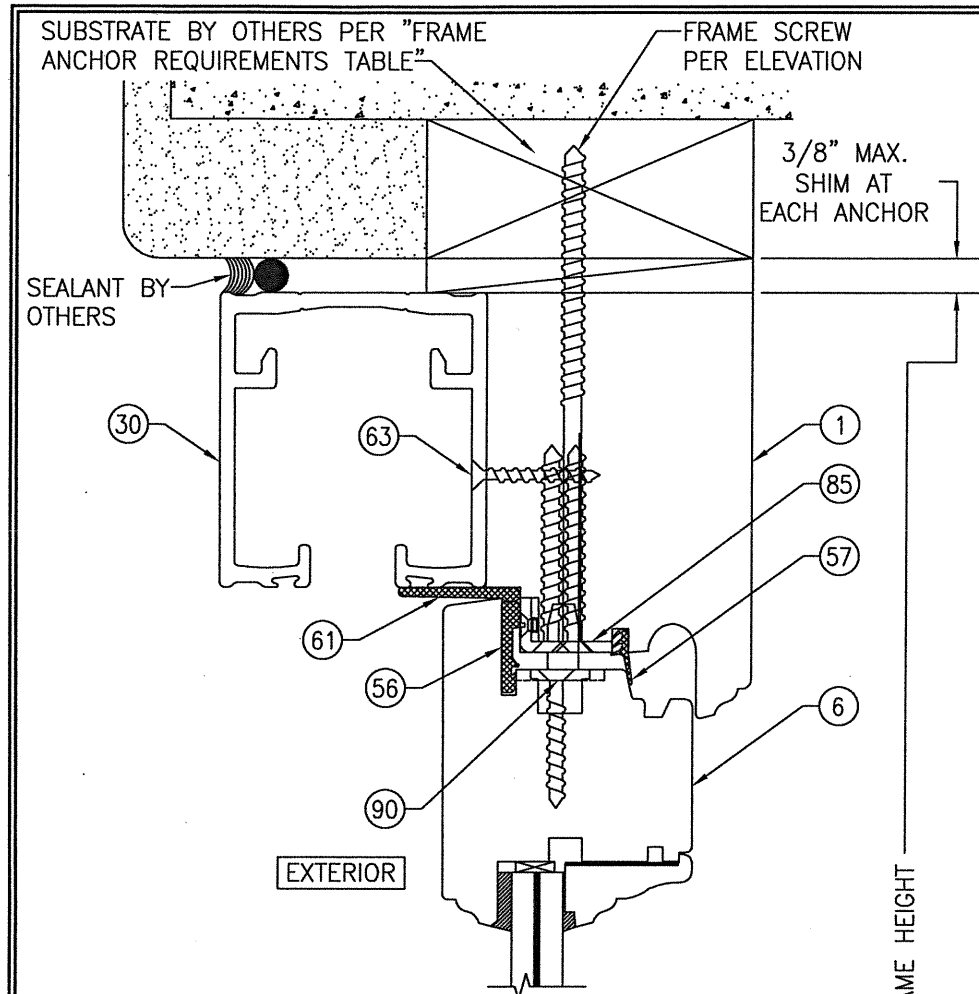


WHILE UP TO 8 PANELS IN ONE OPENING IS SHOWN, THERE IS NO LIMIT TO THE NUMBER OF PANELS IN ONE DOOR FRAME OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE DOOR SYSTEM

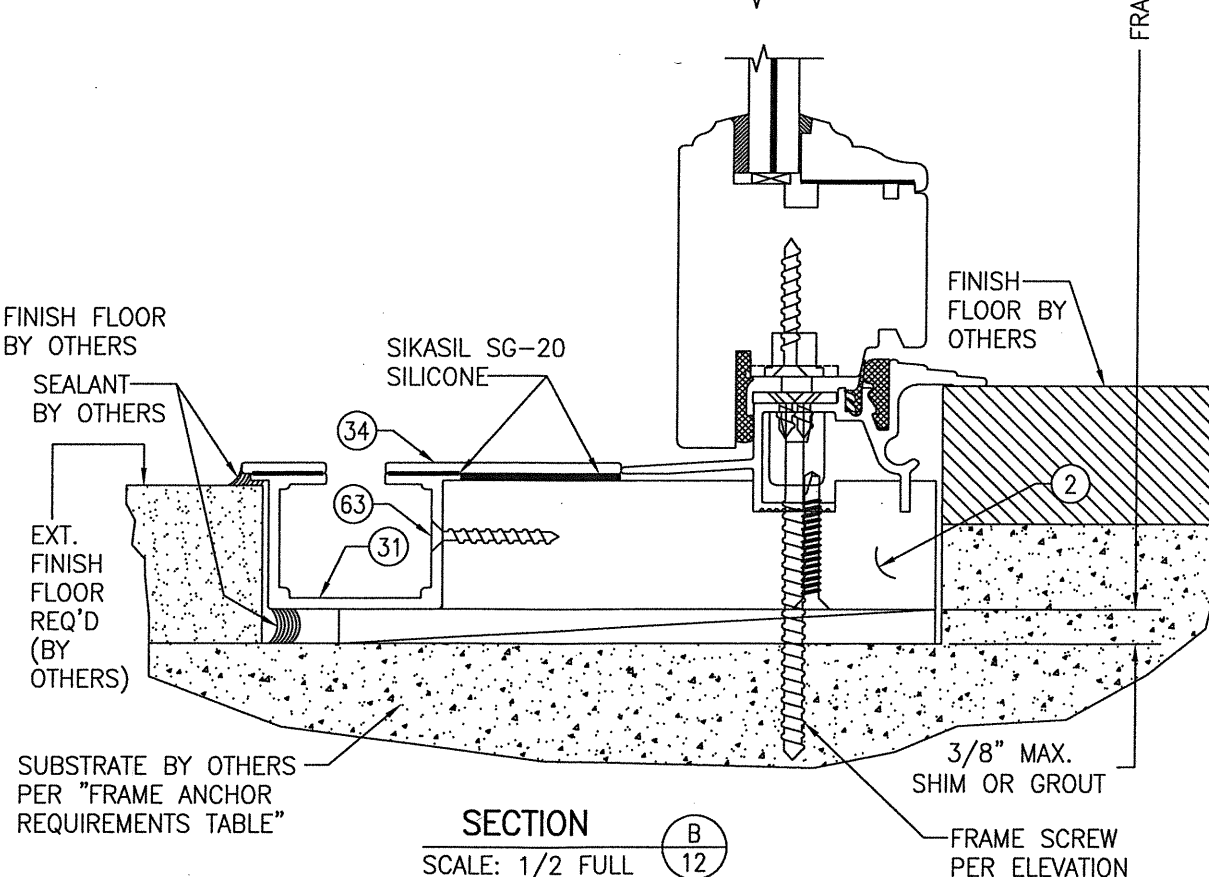
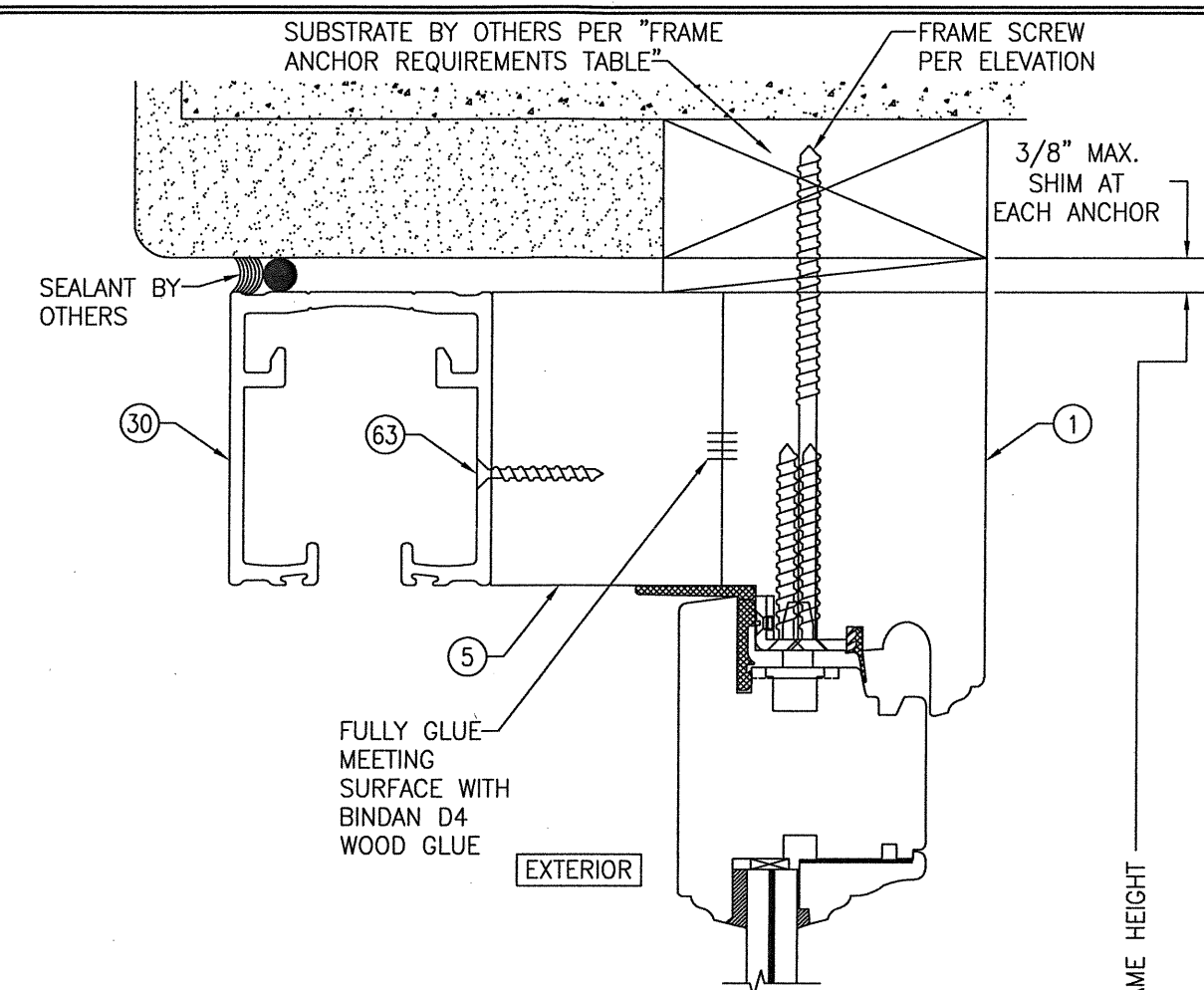
- *1: SINGLE PANEL SEGMENTS AT INTERIOR
- *2: DOUBLE PANEL SEGMENTS AT INTERIOR
- *3: SINGLE AND DOUBLE PANEL SEGMENTS AT INTERIOR COMBINED.



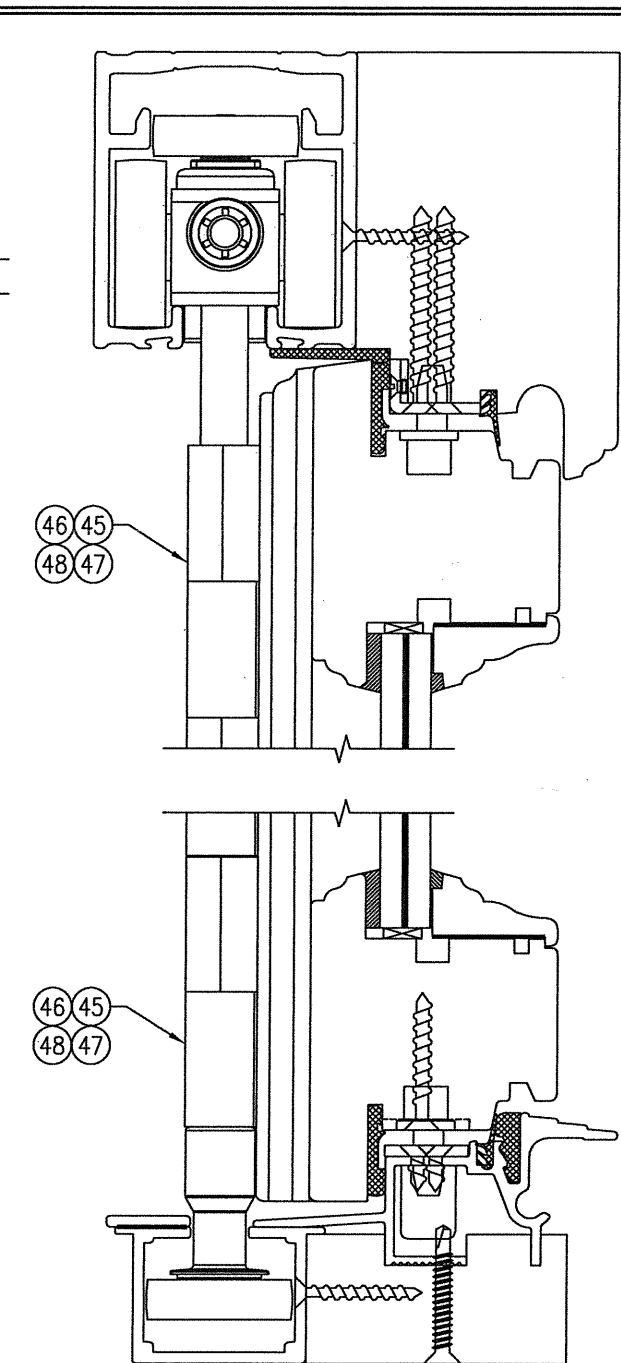
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 06/03/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE WOOD IMPACT OUT-SWING BI-FOLD DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887	
CERTIFICATION JUN 12 2020		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1680		REV. B	
SHEET NO. 11 OF 19			



FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 15 FOR DIRECT, CLIP & BRACKET MOUNT DETAILS.



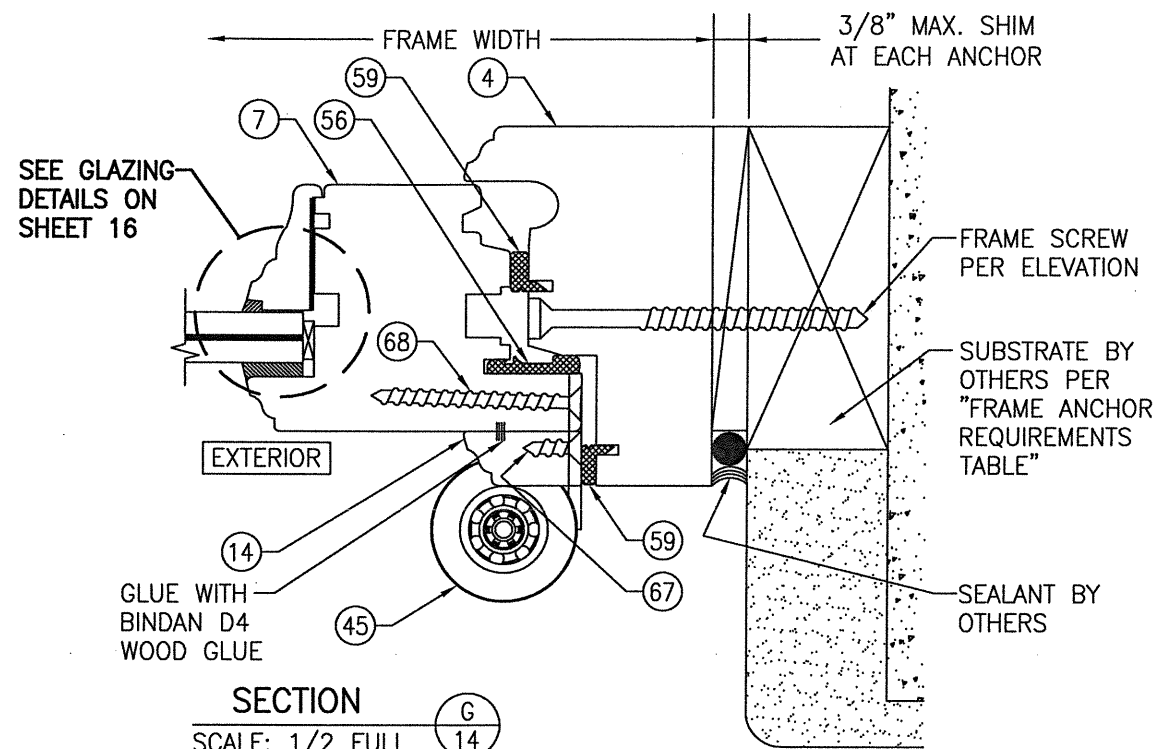
(FOR DETAIL NOT SHOWN, SEE SECTION A/12)



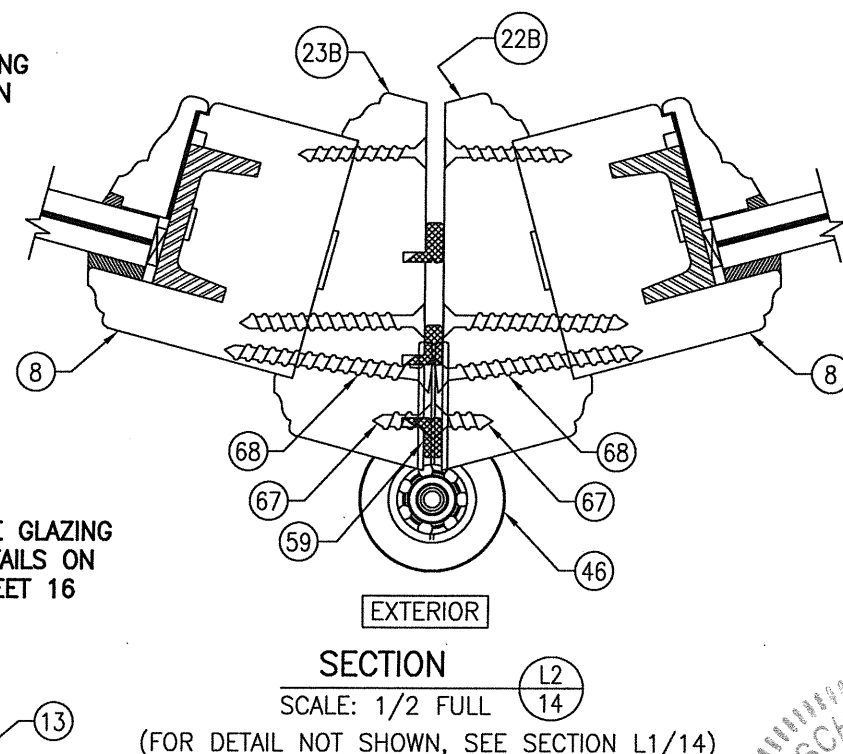
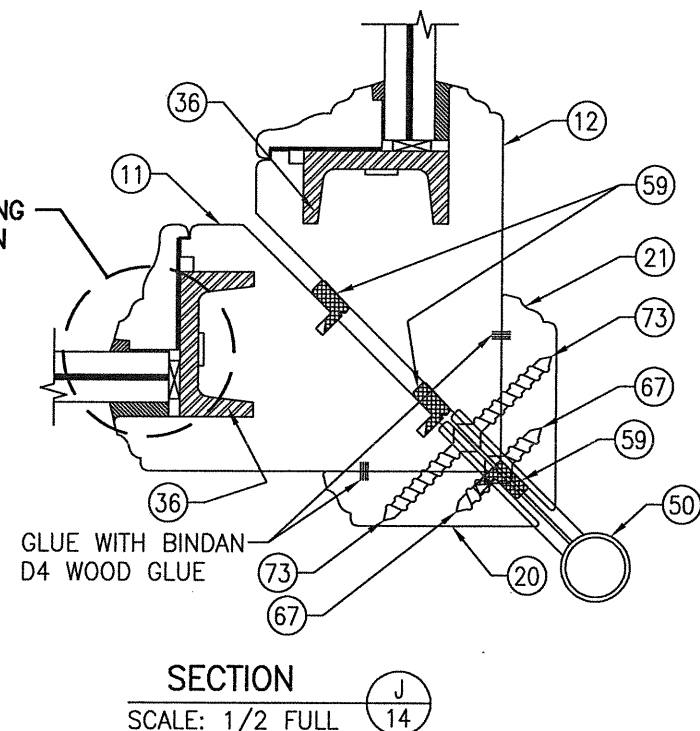
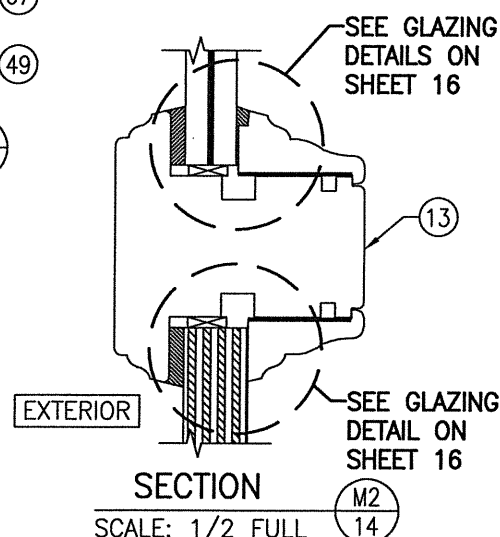
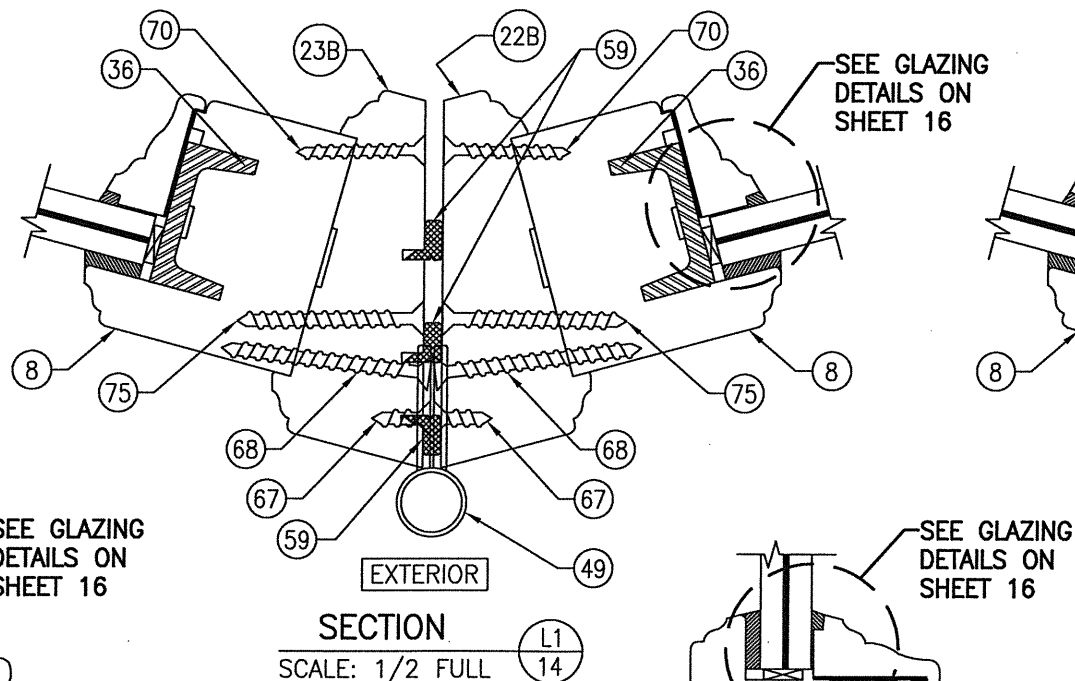
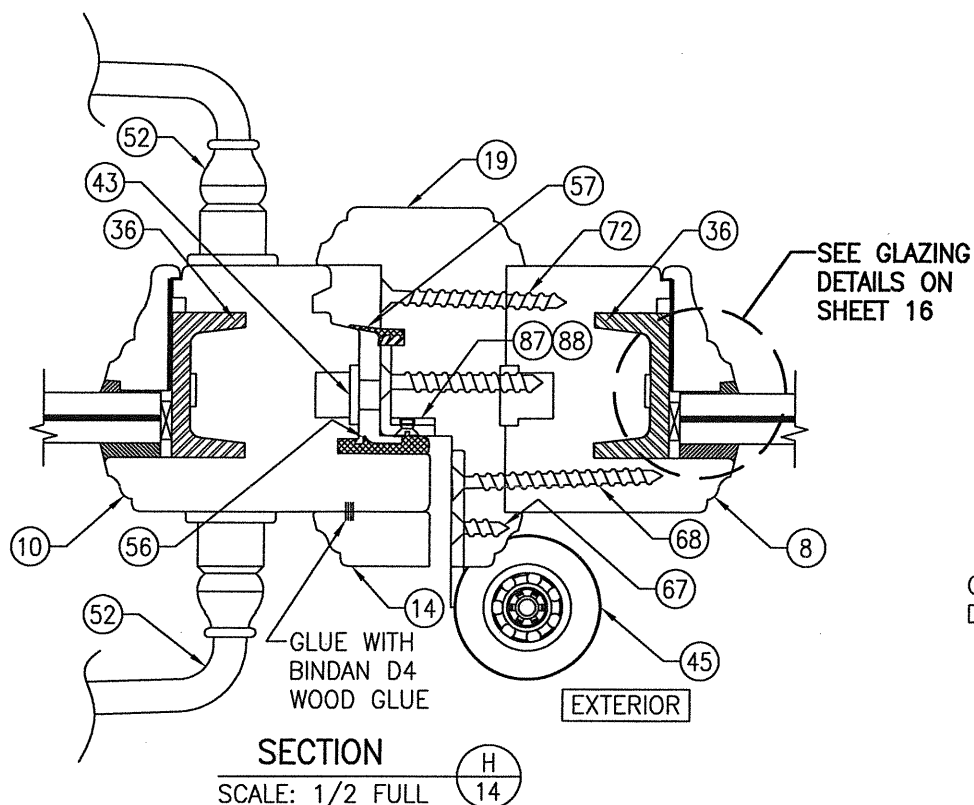
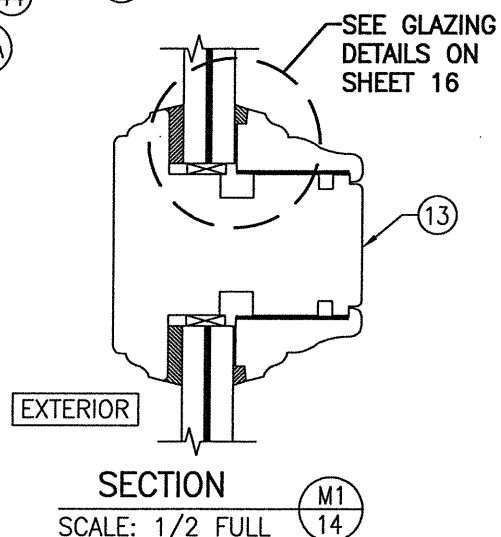
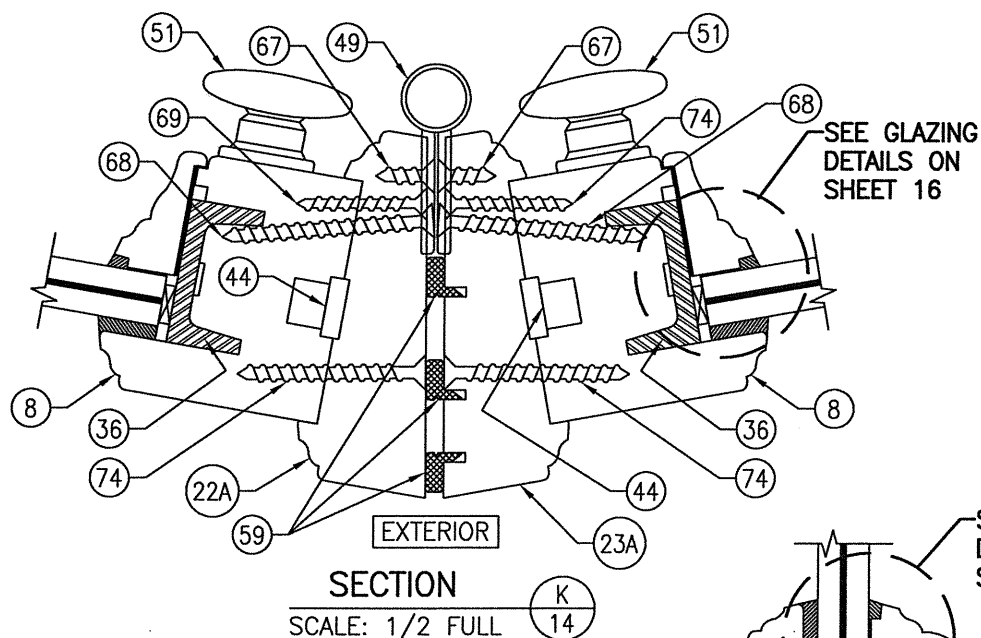
TYPICAL CARRIER/ROLLER DETAIL

(FOR DETAIL & INSTALLATION NOT SHOWN, SEE SECTION A/12)

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 06/03/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: WOOD IMPACT OUT-SWING BI-FOLD DOORS 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. No. 44135 JUN 02 2020			
DRAWING NO. 1680		REV. B	
SHEET NO. 12 OF 19			

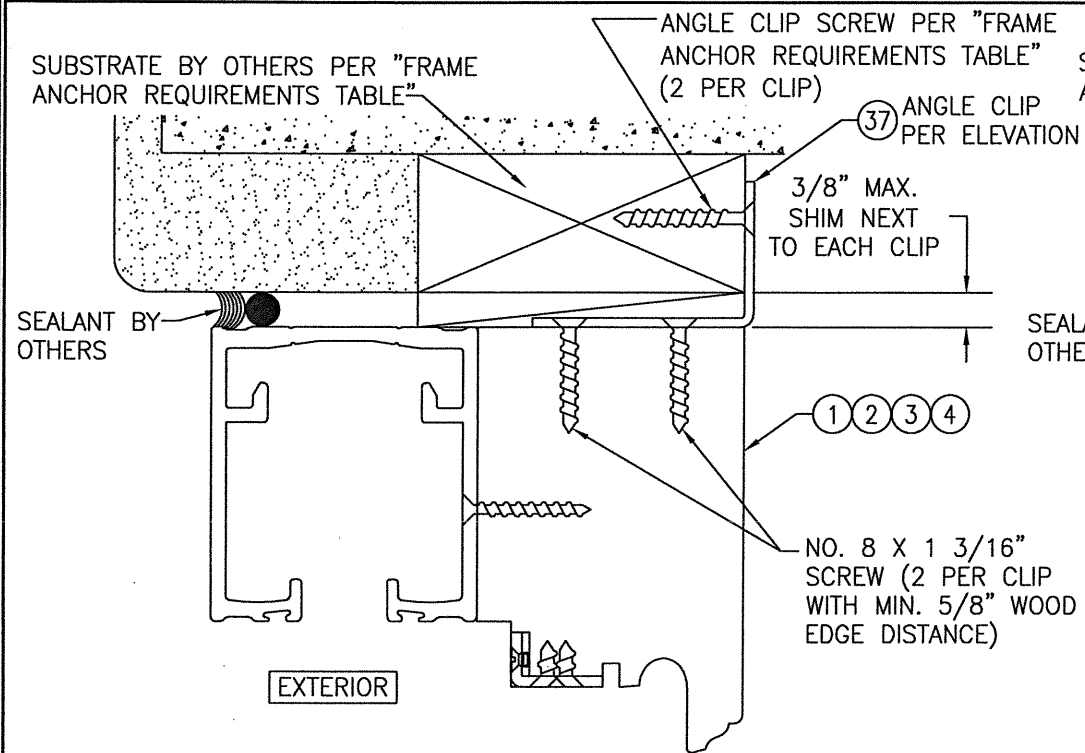


FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 15 FOR DIRECT, CLIP & BRACKET MOUNT DETAILS.



(FOR DETAIL NOT SHOWN, SEE SECTION L1/14)

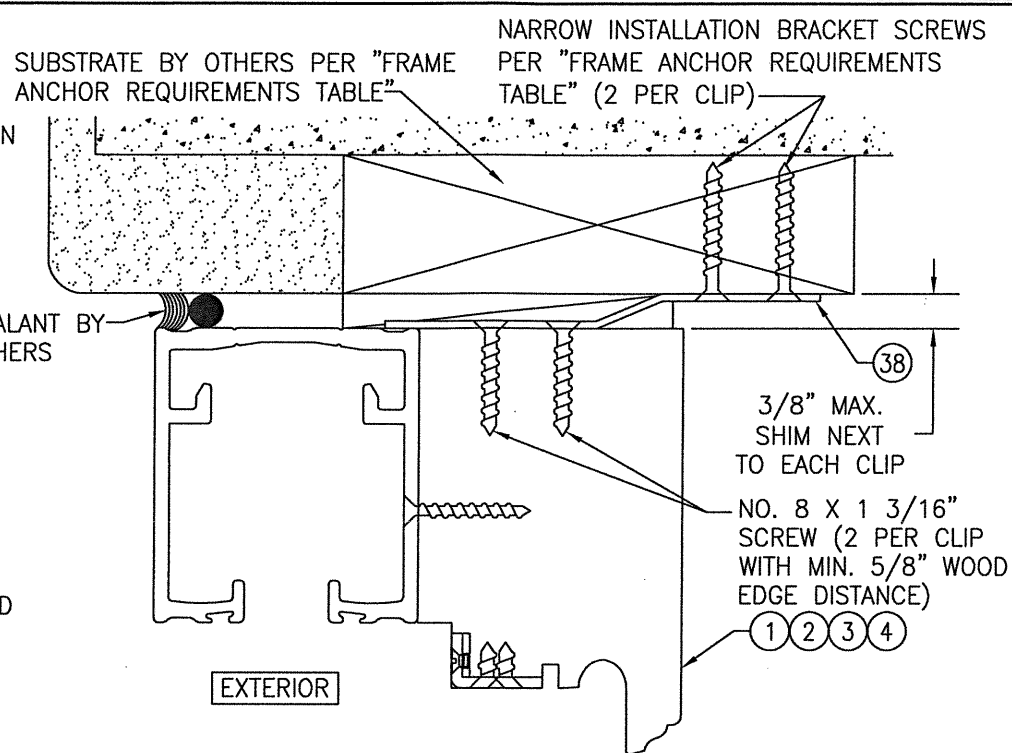
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 06/03/13
DATE	BY
REVISION DESCRIPTION	NO.
WOOD IMPACT OUT-SWING BI-FOLD DOORS	
MANUFACTURER	
PEETZ WINDOWS & DOORS	
15951 S.W. 41ST STREET, SUITE 150	
WESTON, FL 33331	
954-659-3887	
CONSULTANTS	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	
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.	REV.
1680	B
SHEET NO.	14 OF 19



OPTIONAL ANGLE CLIP MOUNT DETAIL

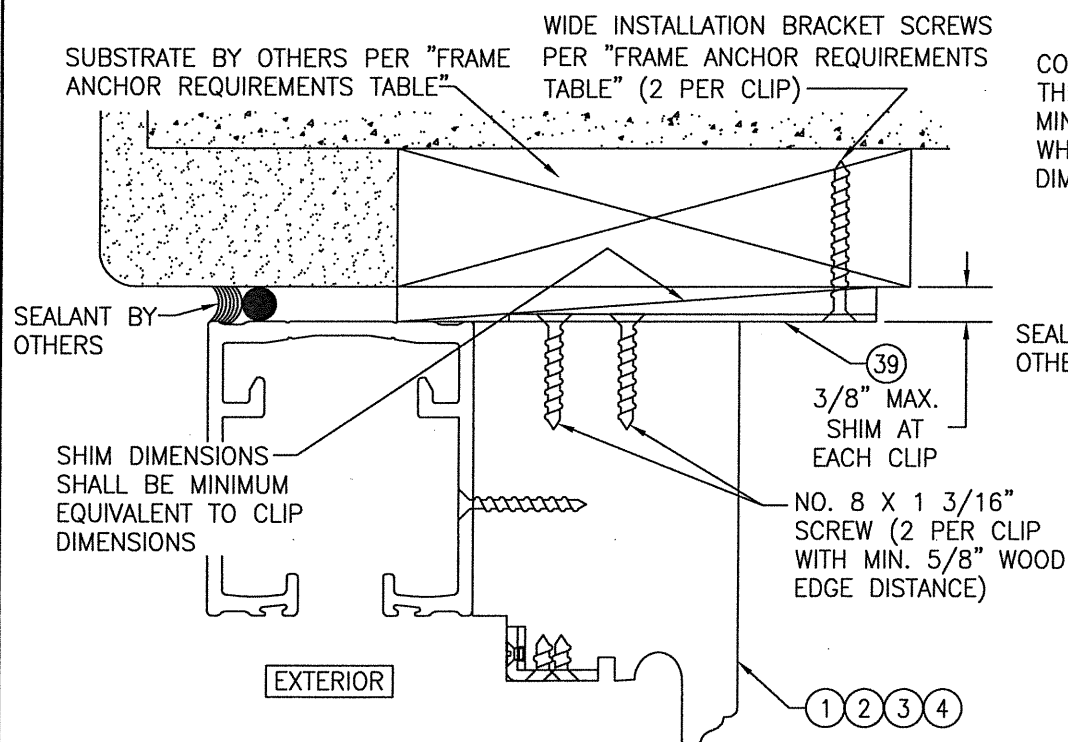
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NOTE: ANGLE CLIP IS SHOWN AT THE INTERIOR OF THE SUBSTRATE. IT MAY BE PLACED AT THE EXTERIOR.



OPTIONAL NARROW INSTALLATION BRACKET MOUNT DETAIL

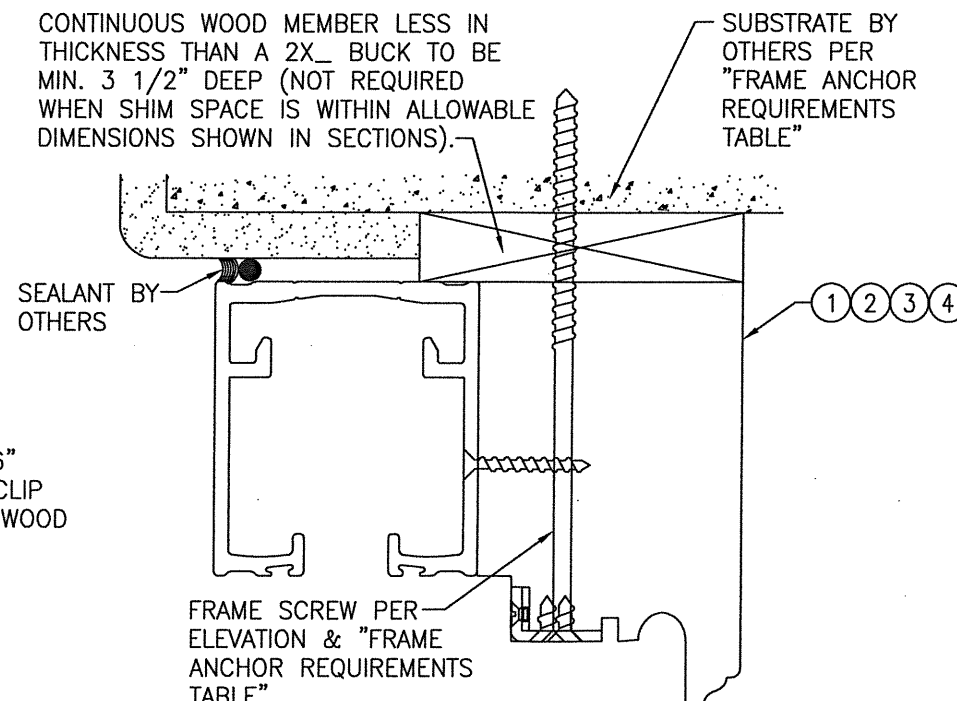
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL WIDE INSTALLATION BRACKET MOUNT DETAIL

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

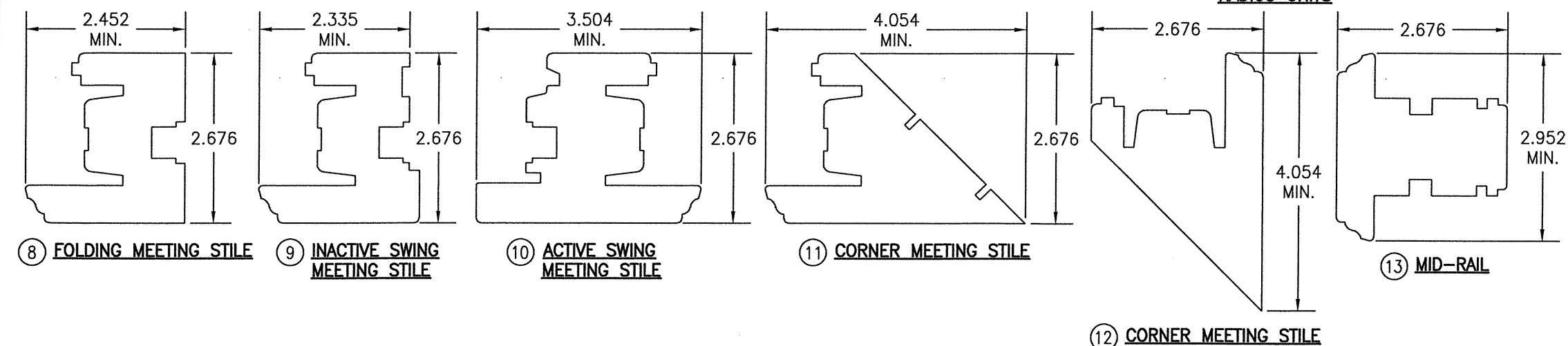
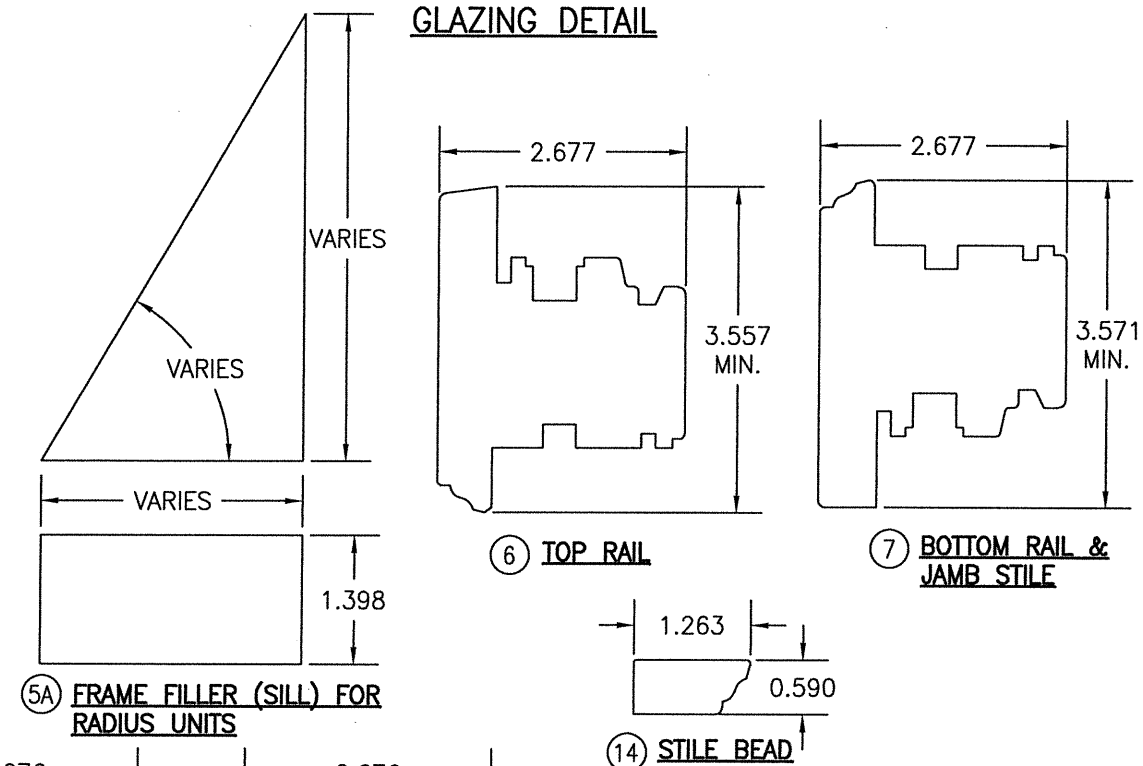
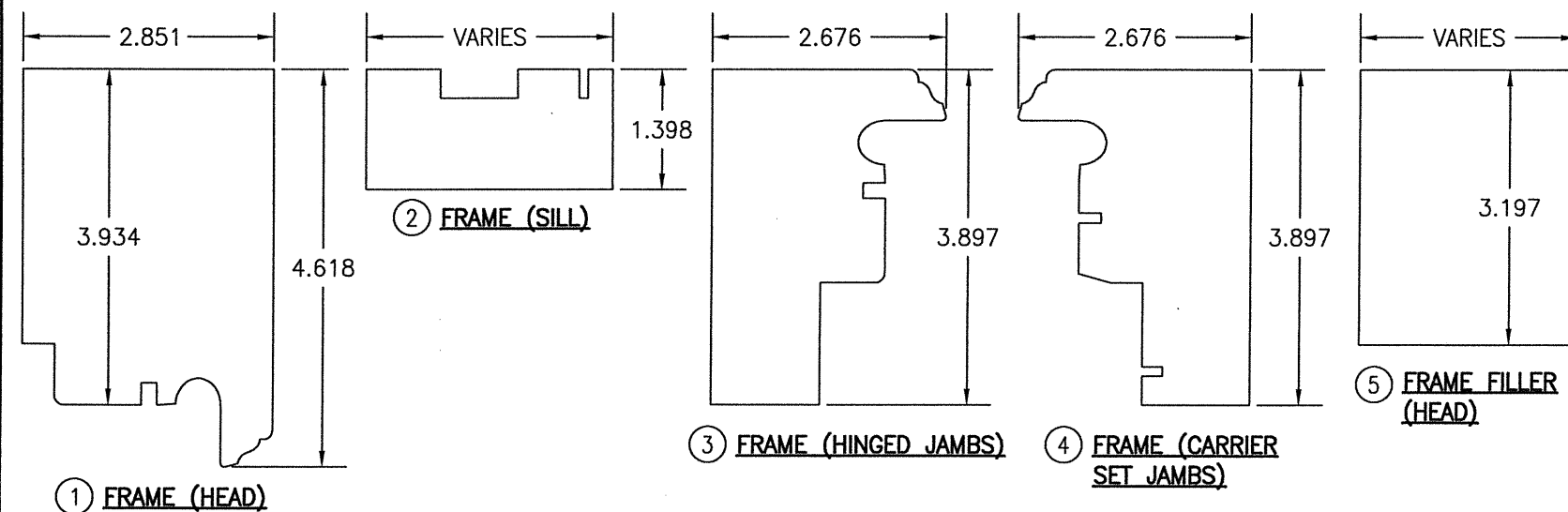
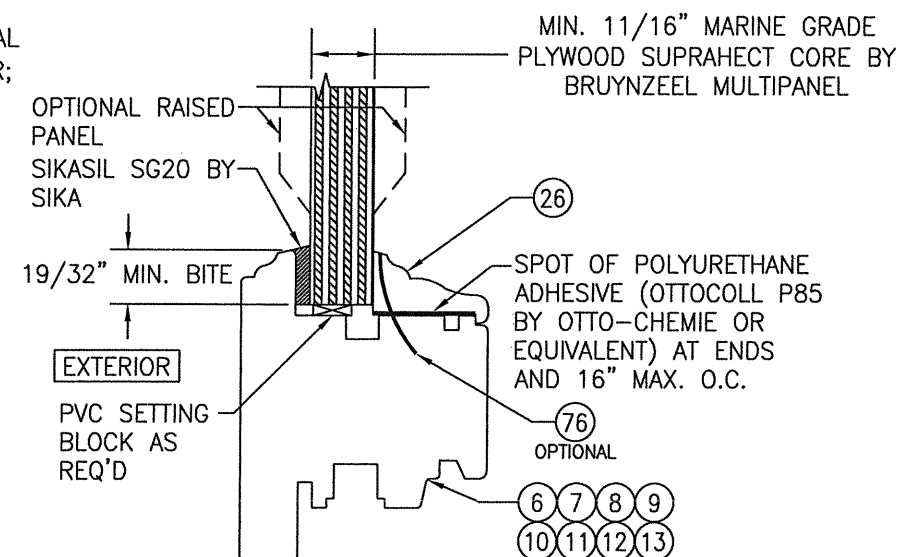
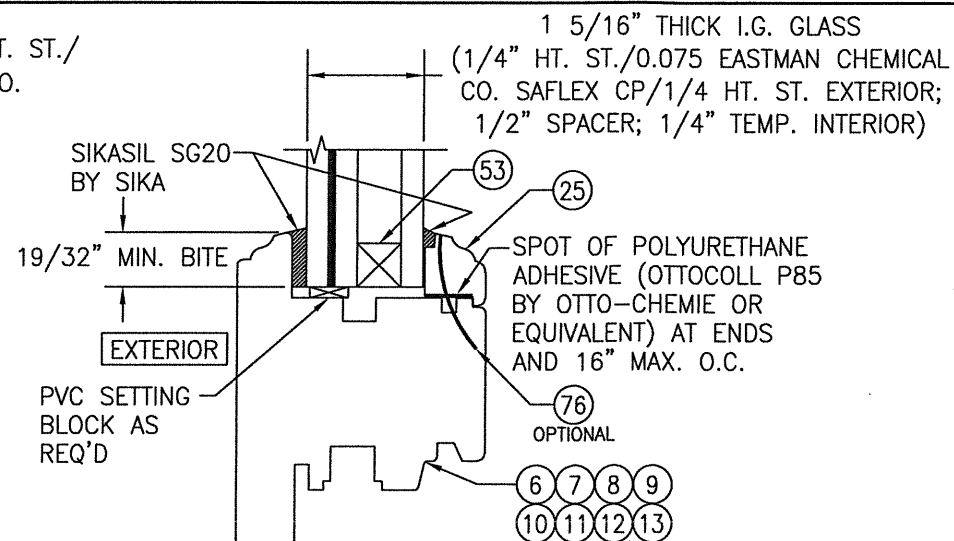
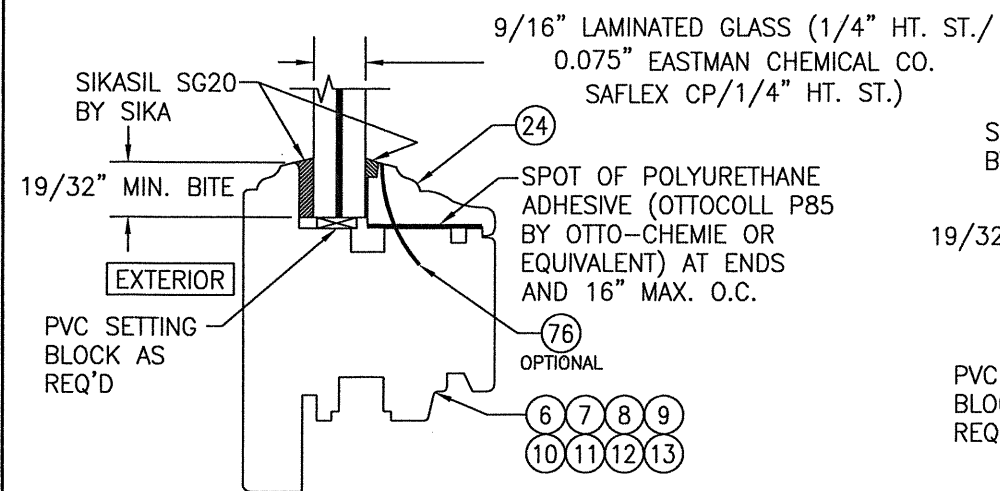
NOTE: BRACKET IS SHOWN PROJECTED TO THE INTERIOR.
IT MAY ALSO BE PROJECTED TO THE EXTERIOR.



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

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

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 06/03/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: WOOD IMPACT OUT-SWING BI-FOLD DOORS CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 MANUFACTURER: PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887			
CERTIFICATION: JUN 02 2020 WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA P.E. NO. 44135			
DRAWING NO. 1680		REV. B	
SHEET NO. 15 OF 19			

[illegible]

DRAWING TITLE	WOOD IMPACT OUT-SWING BI-FOLD DOORS
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
MANUFACTURER	PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET; SUITE 150 WESTON, FL 33331 954-659-3887

CERTIFICATION	JUN 02 2020	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.	
1680	B	
SHEET NO.		
16 OF 19		

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	FRAME (HEAD)	WOOD
2	FRAME (SILL)	WOOD
3	FRAME (HINGED JAMBS)	WOOD
4	FRAME (CARRIER SET JAMBS)	WOOD
5	FRAME FILLER (HEAD)	WOOD
5A	FRAME FILLER (SILL) FOR RADIUS UNITS	WOOD
6	TOP RAIL	WOOD
7	BOTTOM RAIL & JAMB STILE	WOOD
8	FOLDING MEETING STILE	WOOD
9	INACTIVE SWING MEETING STILE	WOOD
10	ACTIVE SWING MEETING STILE	WOOD
11	CORNER MEETING STILE	WOOD
12	CORNER MEETING STILE	WOOD
13	MID-RAIL	WOOD
14	STILE BEAD	WOOD
15	ASTRAGAL BEAD	WOOD
16	ASTRAGAL BEAD	WOOD
17	INTERIOR ASTRAGAL (DOUBLE SWING PANEL MEETING STILE)	WOOD
18	EXTERIOR ASTRAGAL (DOUBLE SWING PANEL MEETING STILE)	WOOD
19	INTERIOR ASTRAGAL (SINGLE SWING PANEL MEETING STILE)	WOOD
20	CORNER STILE BEAD	WOOD
21	CORNER STILE BEAD	WOOD
22A	ASTRAGAL BEAD	WOOD
22B	ASTRAGAL BEAD	WOOD
23A	ASTRAGAL BEAD	WOOD
23B	ASTRAGAL BEAD	WOOD
24	GLAZING BEAD (NON-I.G. GLASS)	WOOD
25	GLAZING BEAD (I.G. GLASS)	WOOD
26	GLAZING BEAD (WOOD PANEL)	WOOD
30	TOP TRACK	6063-T5 ALUMINUM
31	BOTTOM TRACK	6063-T5 ALUMINUM
33	THRESHOLD	BRONZE OR 6063-T5 ALUMINUM
34	BOTTOM TRACK/FRAME FILLER COVER	BRONZE OR 6063-T5 ALUMINUM
36	STILE REINFORCEMENT	GALVANIZED 34 KSI STEEL OR S.S.
37	ANGLE CLIP	GALVANIZED 34 KSI STEEL OR S.S.
38	NARROW MOUNTING BRACKET	GALVANIZED 34 KSI STEEL OR S.S.
39	WIDE MOUNTING BRACKET	GALVANIZED 34 KSI STEEL OR S.S.
41	ROLLER STILE END CLIP	304 S.S.
42	THRESHOLD CORNER KEY	304 S.S.

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.

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
HARDWARE		
43	5 POINT MULTI-POINT LOCK SYSTEM FOR ACTIVE SWING PANELS	KFV OR HOPPE (APPLICABLE LOCK STRIKES & LOCK/PANEL CORNER REINFORCEMENT BARS ARE BY PEETZ.
44	2 POINT MULTI-POINT LOCK SYSTEM FOR INACTIVE SWING AND FOLDING PANELS	KFV OR HOPPE (APPLICABLE LOCK STRIKES & LOCK/PANEL CORNER REINFORCEMENT BARS ARE BY PEETZ.
45	OFFSET CARRIER SET 3 3/8" X 6" (STANDARD PANELS)	CENTOR E40CSS S.S.
46	INTERMEDIATE CARRIER SET 3 3/8" X 6" (STANDARD PANELS)	CENTOR E41CSS S.S.
47	OFFSET CARRIER SET 5 5/8" X 6" (CORNER PANELS)	CENTOR E40CSS S.S. (HINGE LEAFS WIDENED BY PEETZ)
48	INTERMEDIATE CARRIER SET 5 5/8" X 6" (CORNER PANELS)	CENTOR E41CSS S.S. (HINGE LEAFS WIDENED BY PEETZ)
49	BUTT HINGES 3 3/8" X 6" (STANDARD PANELS)	CENTOR E41CSS S.S.
50	BUTT HINGES 5 5/8" X 6" (CORNER PANELS)	CENTOR E41CSS S.S. (HINGE LEAFS WIDENED BY PEETZ)
51	KNOB	(AS REQUIRED TO OPERATE LOCK)
52	HANDLE	(AS REQUIRED TO OPERATE LOCK)
53	I.G. SPACER	0.452" X 0.275" X 0.056" THICK S.S.
SEALS & SEALANTS		
56	COMPRESSION SEAL	SCHLEGEL QL3097 URETHANE FOAM
57	SEAL	GTG G-1.00452.00.010 EPDM
58	COMPRESSION SEAL	SCHLEGEL QL3062 URETHANE FOAM
59	COMPRESSION SEAL	SCHLEGEL QL3011 URETHANE FOAM
60	3/8" X 3/16" PRE-COMPRESSED TAPE	N/A
61	COMPRESSION SEAL	SCHLEGEL QL3097 URETHANE FOAM
FASTENERS		
63	NO. 8 X 1 3/8" WOOD SCREW	WITHIN 3" FROM CORNERS & 6" MAX. O.C.
64	3/16" X 1 1/2" SELF TAPPING SCREW	WITHIN 5" FROM CORNERS & 15" MAX. O.C.
66	NO. 8 X 1 3/16" WOOD SCREW	5 PER HINGE INTO THE JAMB
67	NO. 8 X 5/8" WOOD SCREW	2 PER HINGE INTO THE STILE
68	NO. 8 X 2 3/16" WOOD SCREW	3 PER HINGE INTO THE STILE
69	NO. 8 X 1 3/8" WOOD SCREW	1 CENTERED BETWEEN EACH HINGE
70	NO. 8 X 1 3/8" WOOD SCREW	WITHIN 2" FROM ENDS & 14" MAX. O.C.
71	NO. 8 X 1 3/8" WOOD SCREW	14" FROM EACH TOP & BOTTOM CARRIER SET & 14" O.C.
72	NO. 8 X 2 3/16" WOOD SCREW	WITHIN 5 1/2" FROM ENDS & 14" MAX. O.C.
73	NO. 8 X 1 1/4" WOOD SCREW	3 PER HINGE INTO THE STILE
74	NO. 8 X 2" WOOD SCREW	WITHIN 2" FROM ENDS & 14" MAX. O.C.
75	NO. 8 X 2" WOOD SCREW	1 CENTERED BETWEEN EACH HINGE
76	18 GA. X 1 1/4" GALV. CURVED NAIL	WITHIN 10" OF CORNERS & 20" MAX. O.C.
77	NO. 8 X 2" WOOD SCREW	WITHIN 5 1/2" FROM ENDS & 14" MAX. O.C.
LOCK HARDWARE PARTS		
85	HEAD LOCKING HARDWARE STRIKE FASTENED WITH 4 NO. 12 X 2 3/8" WOOD SCREWS	STEEL
86	SILL LOCKING HARDWARE STRIKE FASTENED WITH 4 NO. 12 X 1/2" SMS SCREWS	STEEL
87	LOCK STILE LOCKING HARDWARE STRIKE FASENED WITH 4 NO. 12 X 1 3/4" WOOD SCREWS	STEEL
88	LOCK STILE DEAD BOLT AND LATCH LOCKING HARDWARE STRIKE FASTENED WITH 4 NO. 10 X 1 3/4" WOOD SCREWS	STEEL
90	LOCKING GEAR REINFORCEMENT FASTENED WITH 4 NO. 12 X 1 9/16" WOOD SCREWS	STEEL

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 06/03/13	
DATE	BY	REVISION	DESCRIPTION
NO.			
WOOD IMPACT OUT-SWING BI-FOLD DOORS			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		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			
CERTIFICATION WARREN W. SCHAEFER LICENSE No. 44135 JUN 02 2020		DRAWING NO. 1680 REV. B SHEET NO. 19 OF 19	