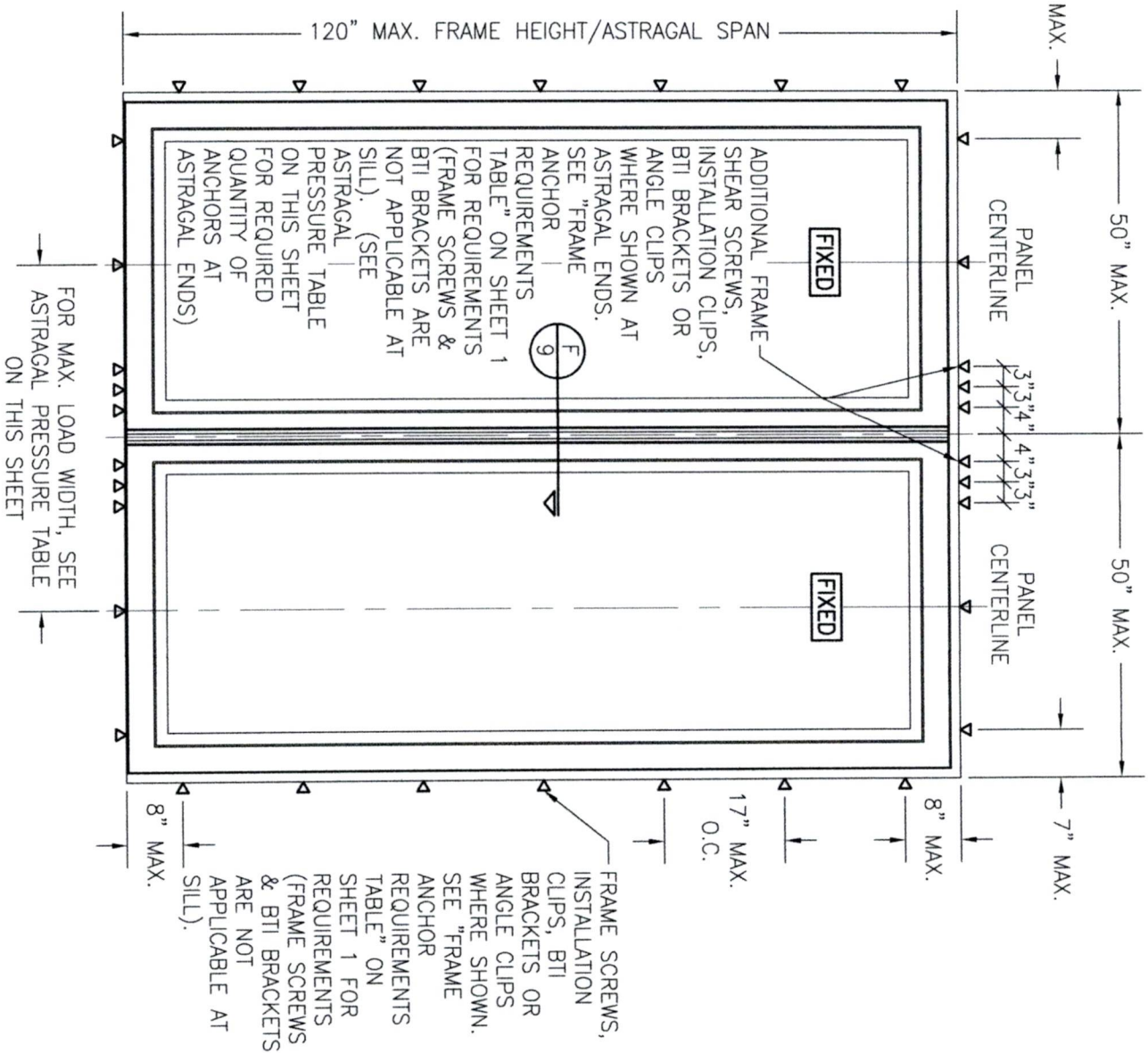
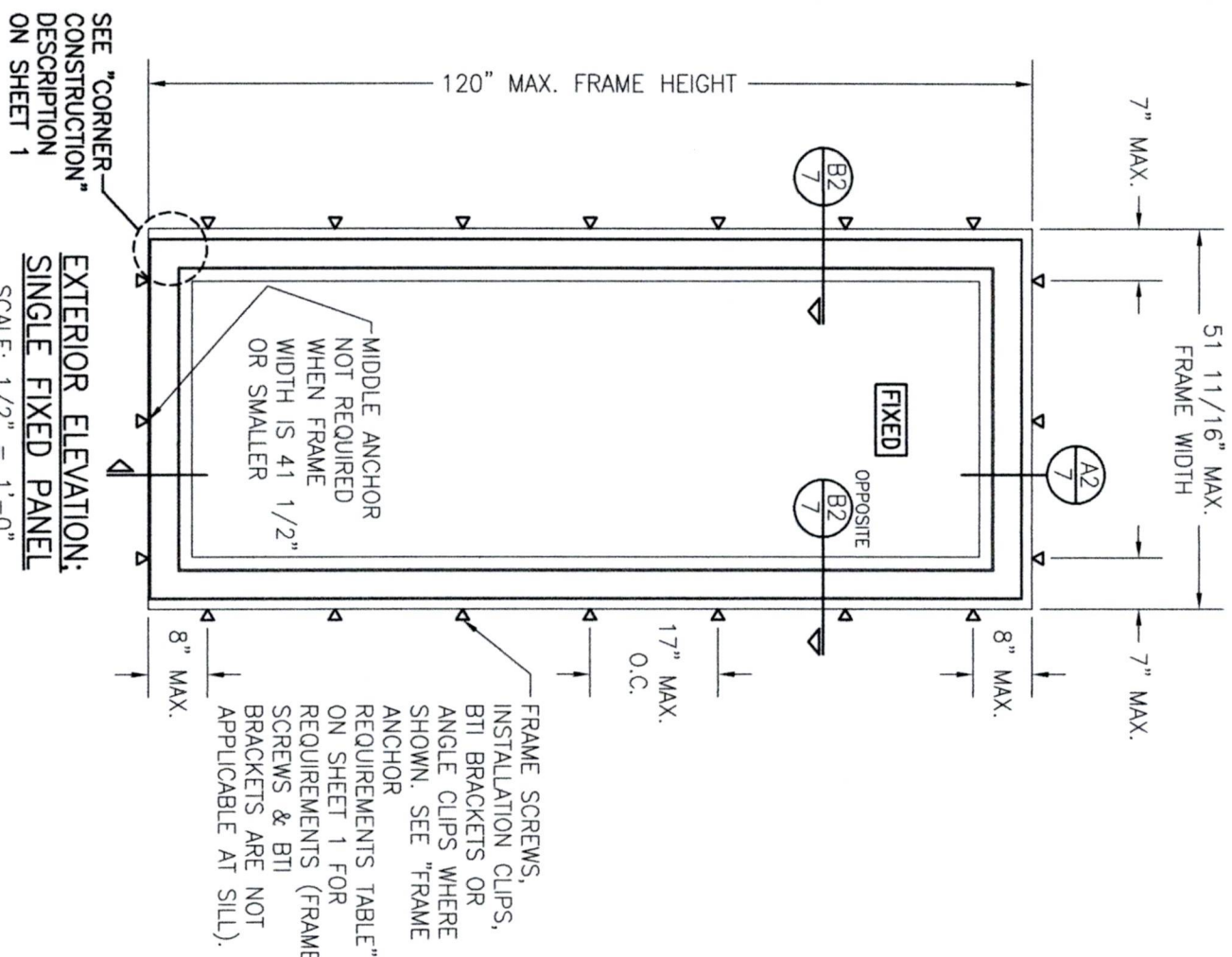




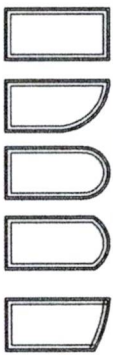
FIXED ASTRAGAL ALLOWABLE DESIGN PRESSURE						
MAXIMUM ASTRAGAL SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)				
		4 END ANCHORS		6 END ANCHORS		
		POS.	NEG.	POS.	NEG.	
	50	51.4	51.4	70.0	70.0	
	48	53.5	53.5	70.0	70.0	
	44	58.4	58.4	70.0	70.0	
	40	64.2	64.2	70.0	70.0	
	36	70.0	70.0	70.0	70.0	
120	32	70.0	70.0	70.0	70.0	
	28	70.0	70.0	70.0	70.0	
	50	57.1	57.1	70.0	70.0	
	48	59.5	59.5	70.0	70.0	
	44	64.9	64.9	70.0	70.0	
108	40	70.0	70.0	70.0	70.0	
	36	70.0	70.0	70.0	70.0	
	32	70.0	70.0	70.0	70.0	
	50	62.3	62.3	70.0	85.0	
	48	64.9	64.9	70.0	85.0	
99	44	70.0	70.8	70.0	85.0	
	40	70.0	77.9	70.0	85.0	
	36	70.0	85.0	70.0	85.0	
	50	64.2	64.2	70.0	85.0	
	48	66.9	66.9	70.0	85.0	
96	44	70.0	73.0	70.0	85.0	
	40	70.0	80.3	70.0	85.0	
	37	70.0	85.0	70.0	85.0	
	50	70.0	73.4	70.0	85.0	
	48	70.0	76.5	70.0	85.0	
84	44	70.0	83.4	70.0	85.0	
	43	70.0	85.0	70.0	85.0	
	50	70.0	77.1	70.0	85.0	
80	48	70.0	80.3	70.0	85.0	
	45	70.0	85.0	70.0	85.0	

NOTES.

- 1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.**
- 2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL FIXED PANEL.**
- 3. SIZE VALUES IN TABLE ARE $+/-1/4"$**

ALLOWABLE DESIGN PRESSURE (SINGLE FIXED PANELS)			
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	120	70	70
51 11/16	99	70	85

APPROVED SHAPES
(FIXED PANELS)



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.
3. THE SHAPES SHOWN APPLY TO SINGLE FIXED PANELS AND THE PANELS ON EITHER SIDE OF A FIXED ASTRAGAL.

ANCHOR NOTE: ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED PANEL DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

FIXED ASTRAGAL ALLOWABLE
DESIGN PRESSURE

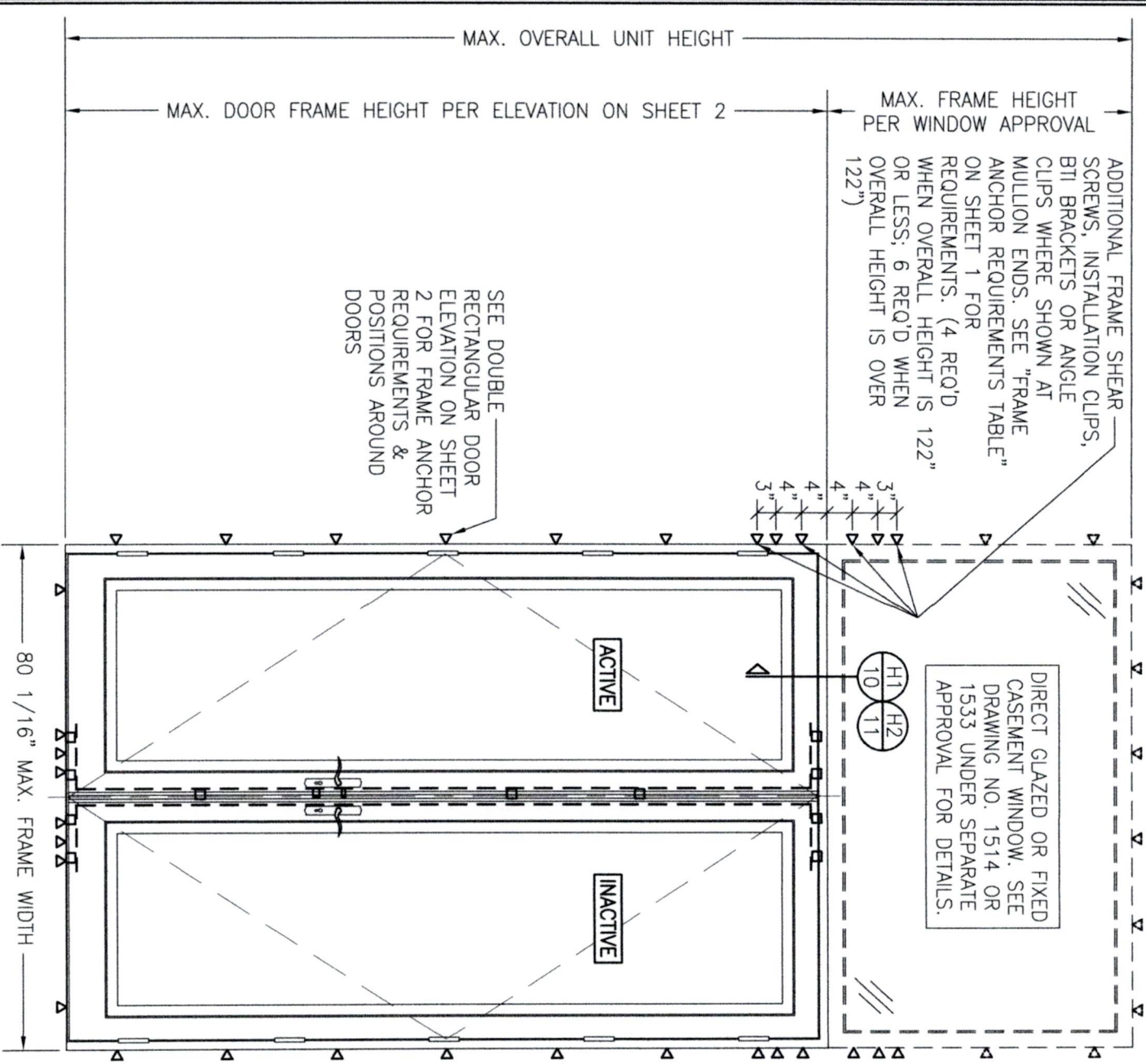
[illegible]

TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
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

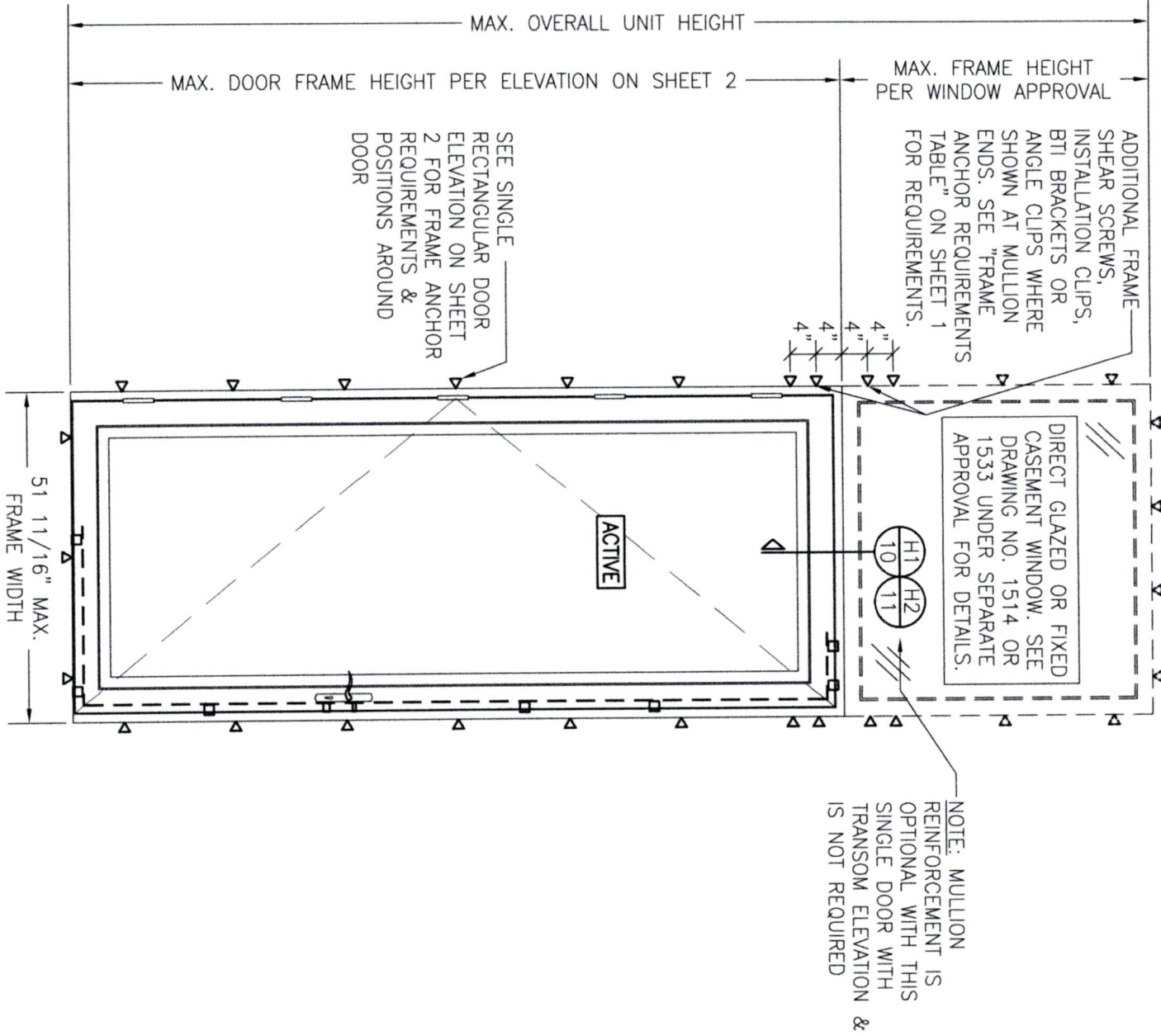
DRAWING NO.	REV
1616	D
SHEET NO.	
4	OF 17



EXTERIOR ELEVATION: DOUBLE DOORS WITH TRANSOM

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

(SEE DOUBLE RECTANGULAR DOOR ELEVATION ON SHEET 2 FOR DOOR DETAIL NOT SHOWN)



EXTERIOR ELEVATION: SINGLE DOOR WITH TRANSOM

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

(SEE SINGLE RECTANGULAR DOOR ELEVATION ON SHEET 2 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE
(DOUBLE DOOR TRANSOM UNIT)

MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(1) ALLOWABLE POSITIVE PRESSURE (PSF)	ALLOWABLE NEGATIVE PRESSURE (PSF)
80 1/16	168	70	70
80 1/16	138	70	(1) 85

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.

ALLOWABLE DESIGN PRESSURE
(SINGLE DOOR TRANSOM UNIT)

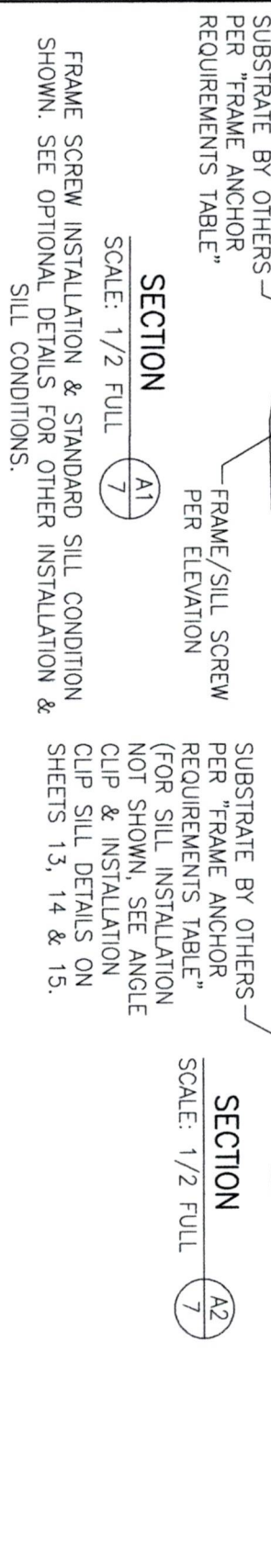
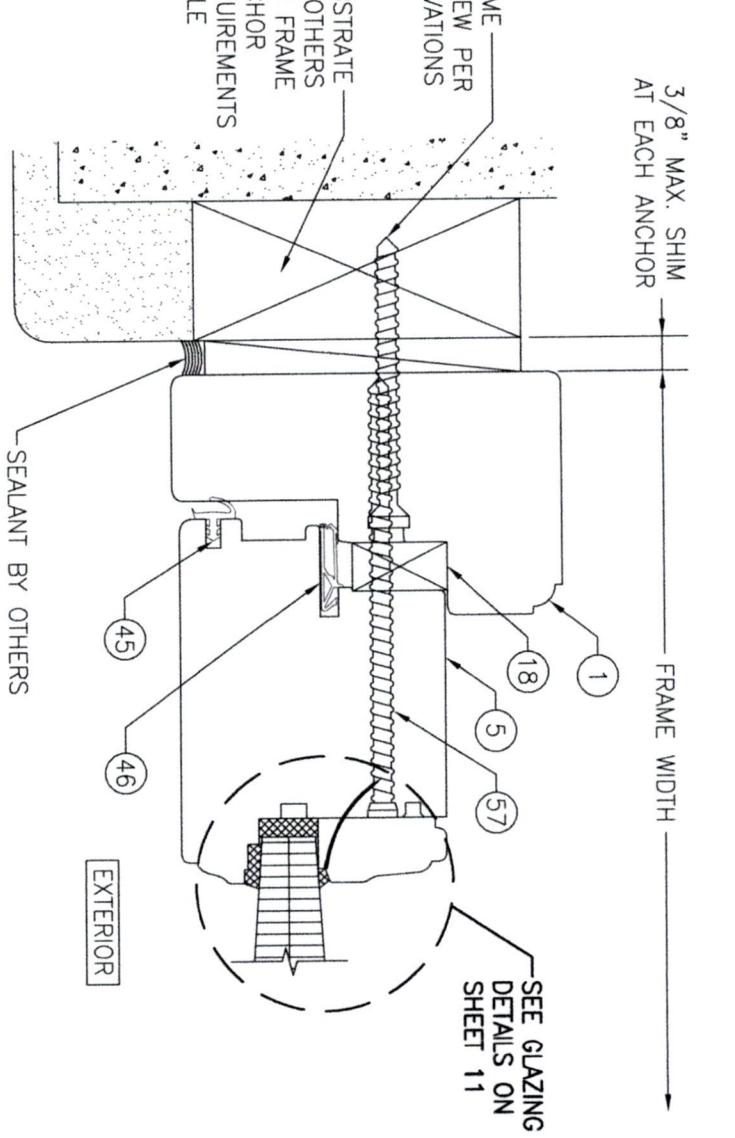
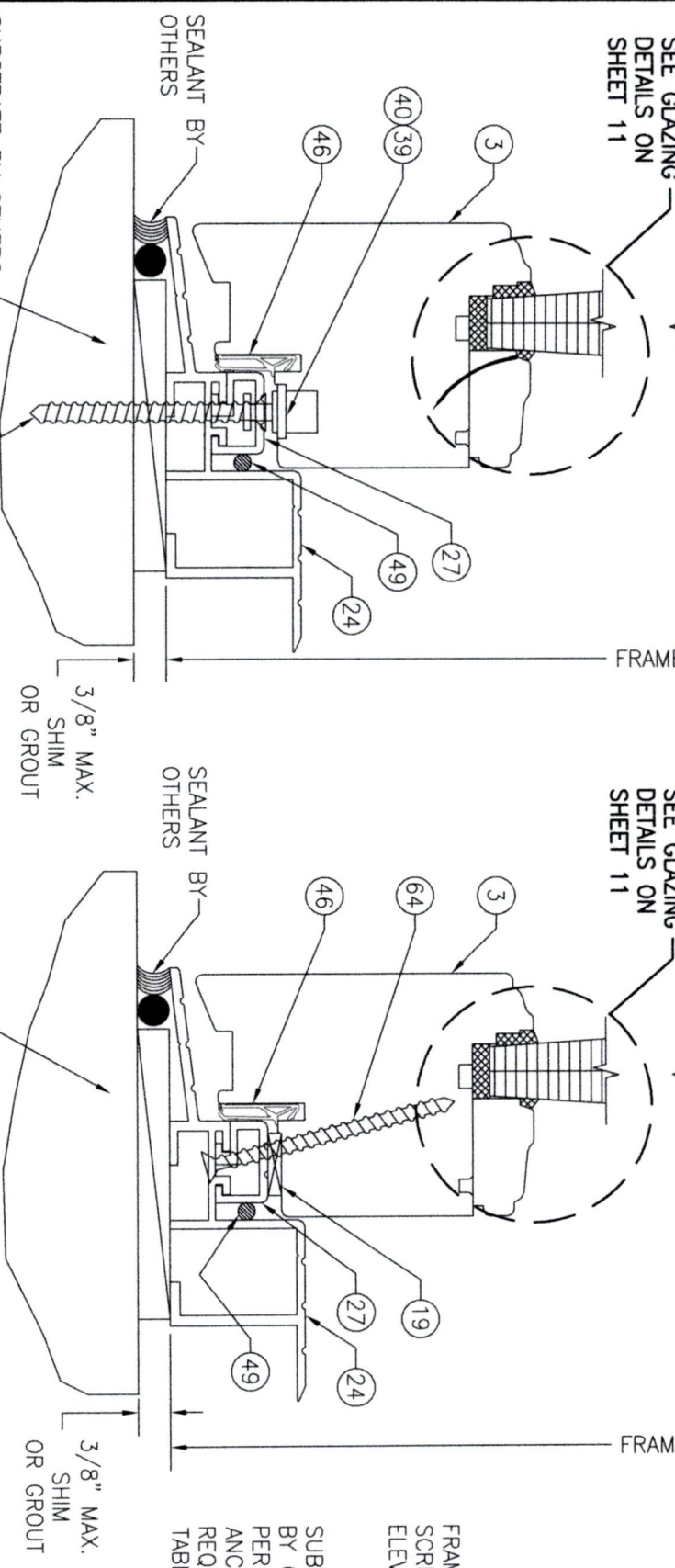
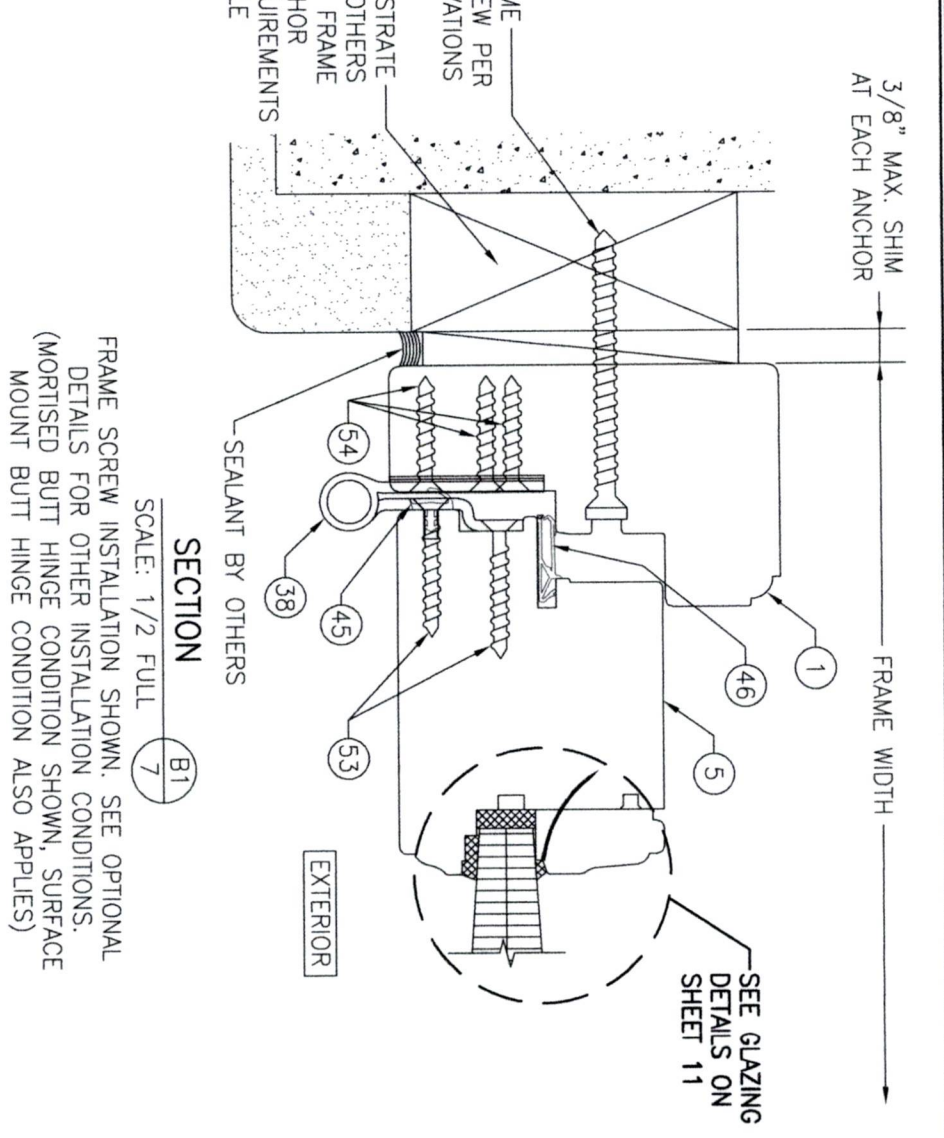
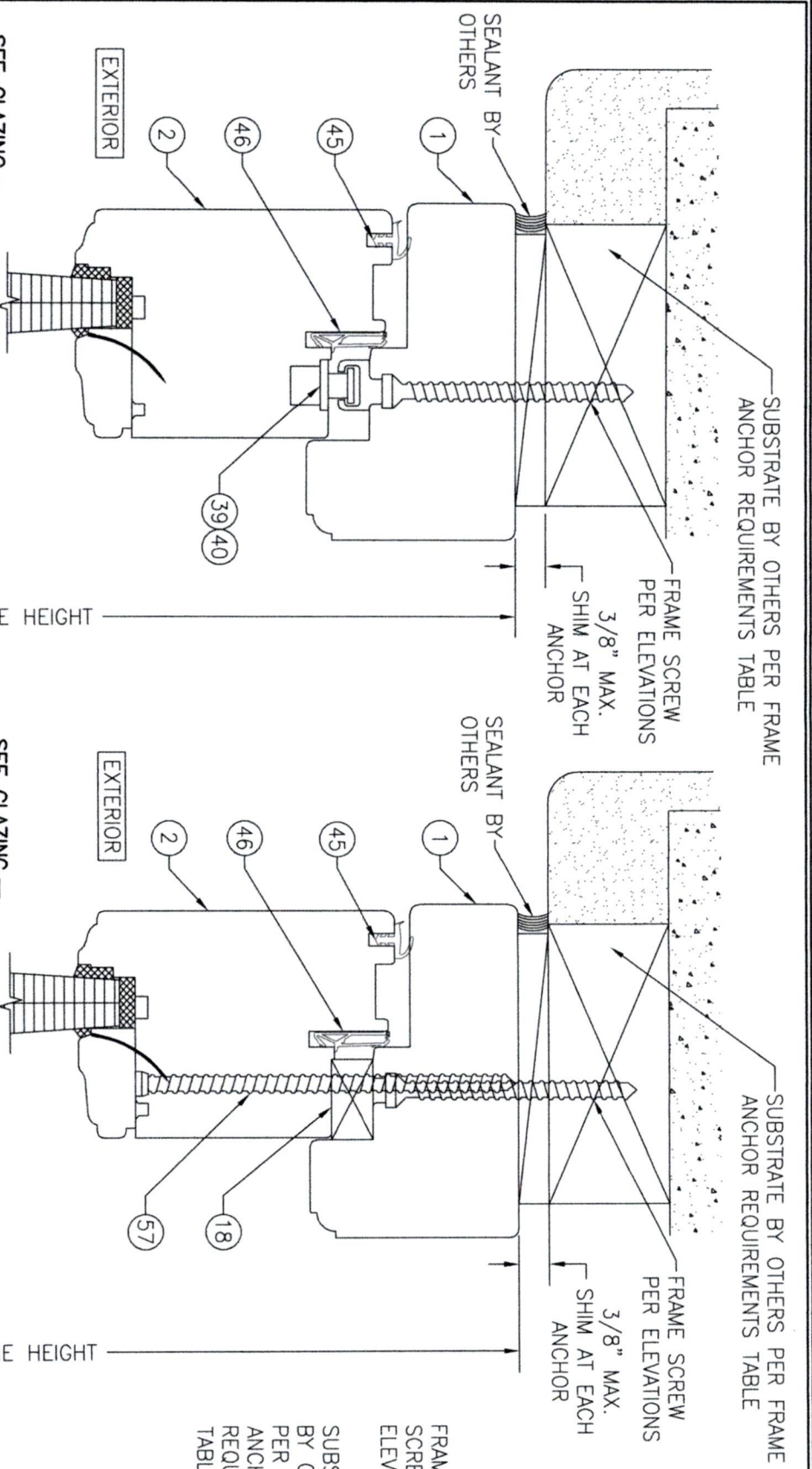
MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(1) ALLOWABLE POSITIVE PRESSURE (PSF)	ALLOWABLE NEGATIVE PRESSURE (PSF)
51 11/16	168	70	70
41 1/2	168	70	(1) 85

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.

NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE OUT-SWING IMPACT WOOD PANEL DOORS	MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 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. 1616 REV. D	SHEET NO. 6 OF 17
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NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

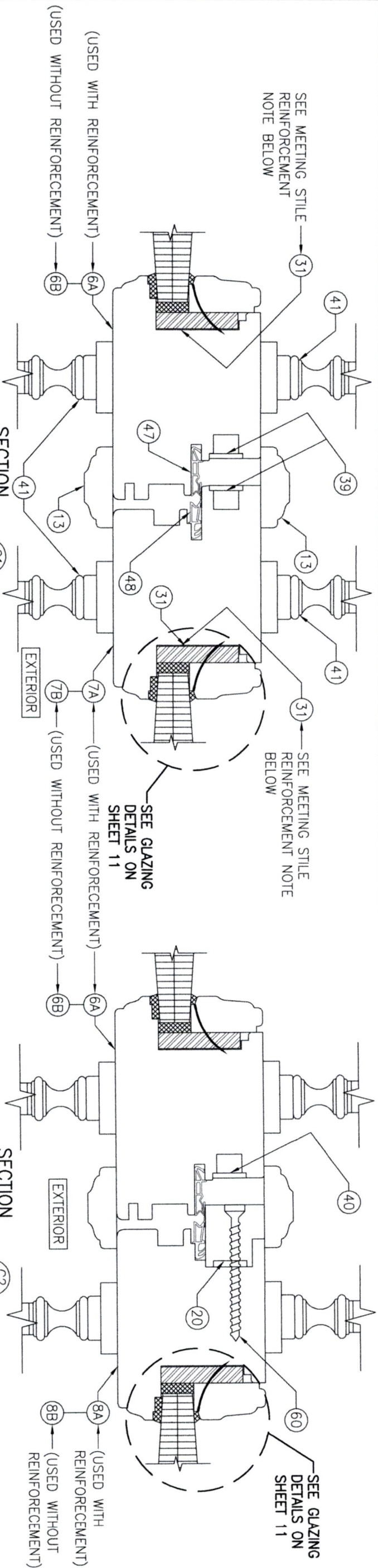
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

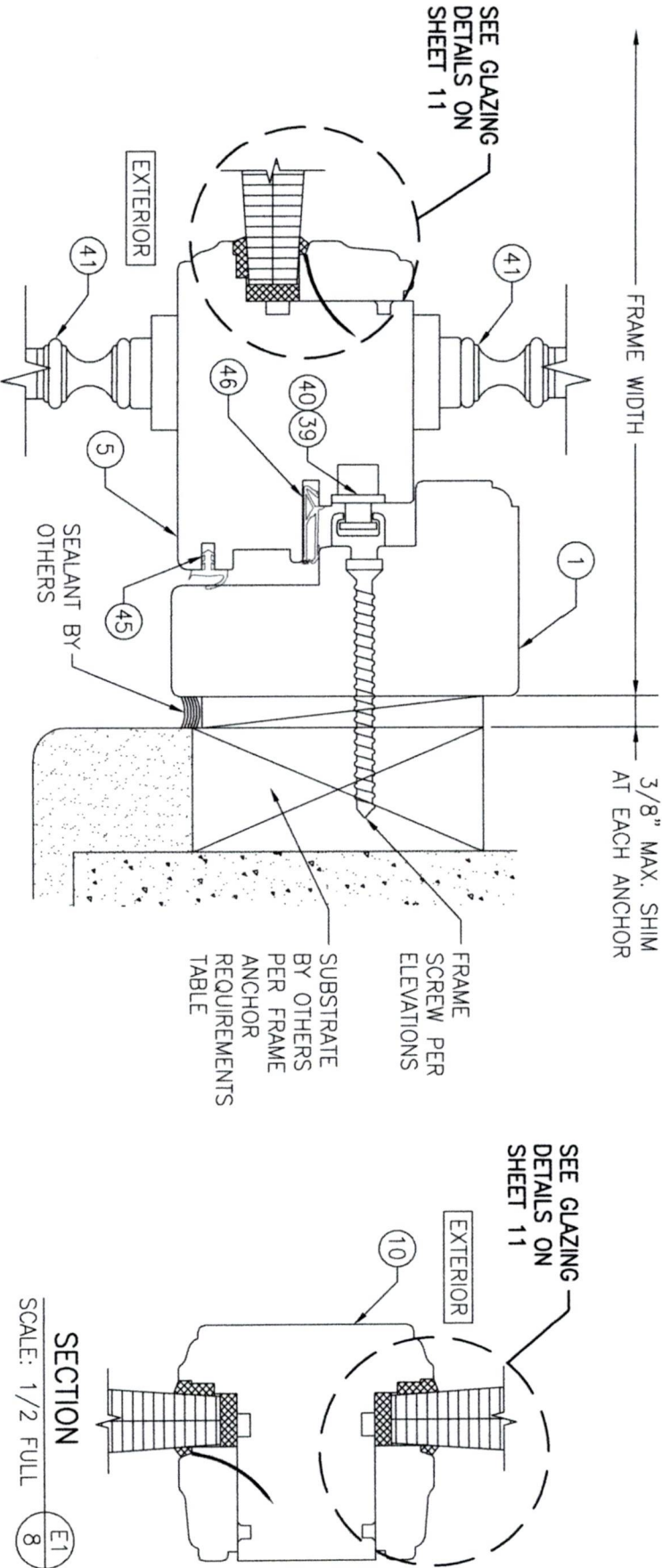
CERTIFICATION
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. **1616**
REV. **D**

SHEET NO. **7** OF **17**



MEETING STILE REINFORCEMENT NOTE:
REINFORCEMENT IS REQUIRED WHEN ANY ONE OF THE FOLLOWING DOOR CONDITIONS EXISTS.
1. WHEN FRAME HEIGHT IS OVER 99".
2. WHEN ADA SILL IS USED (ALL APPLICABLE FRAME HEIGHTS).
3. WHEN JOB REQUIRED DESIGN PRESSURE IS OVER +/-70 PSF.



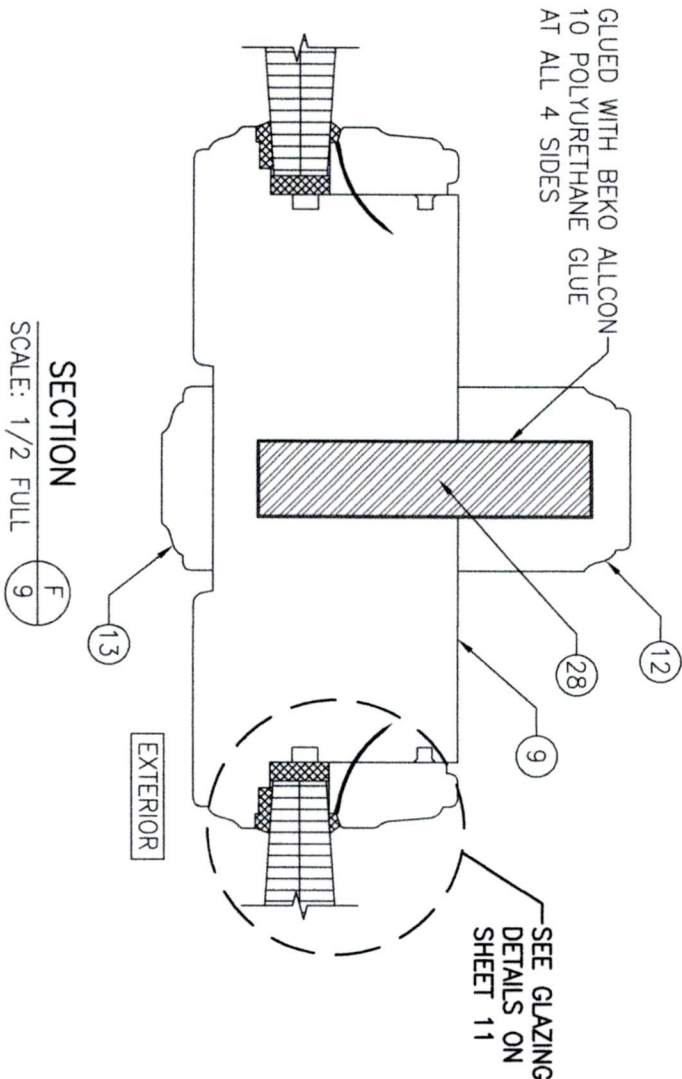
MEETING STILE CONDITION WITH KFY MULTI-POINT LOCK SYSTEM
(FOR DETAIL NOT SHOWN, SEE SECTION C1/7)

FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL
DETAILS FOR OTHER INSTALLATION CONDITIONS.

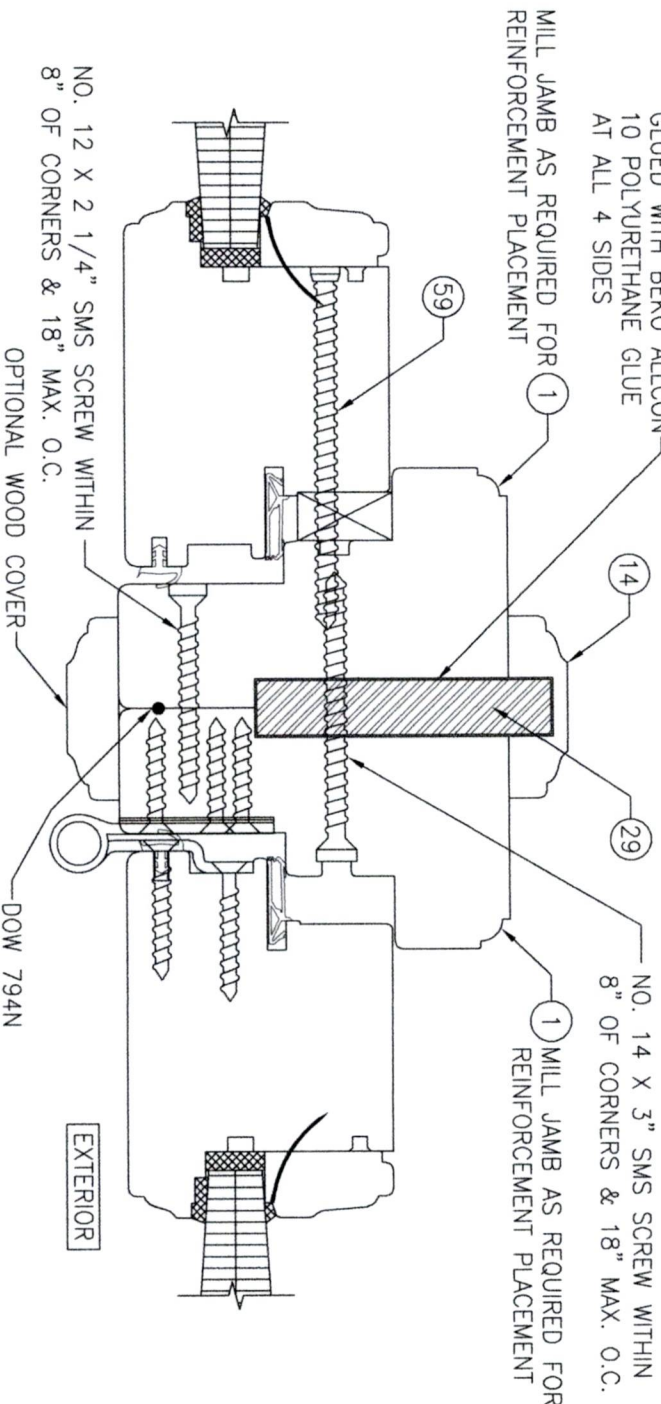
NO.	REVISION	DESCRIPTION	BY	DATE
1	2			

DRAWING TITLE	OUT-SWING IMPACT WOOD PANEL DOORS
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 06901 203-674-0600

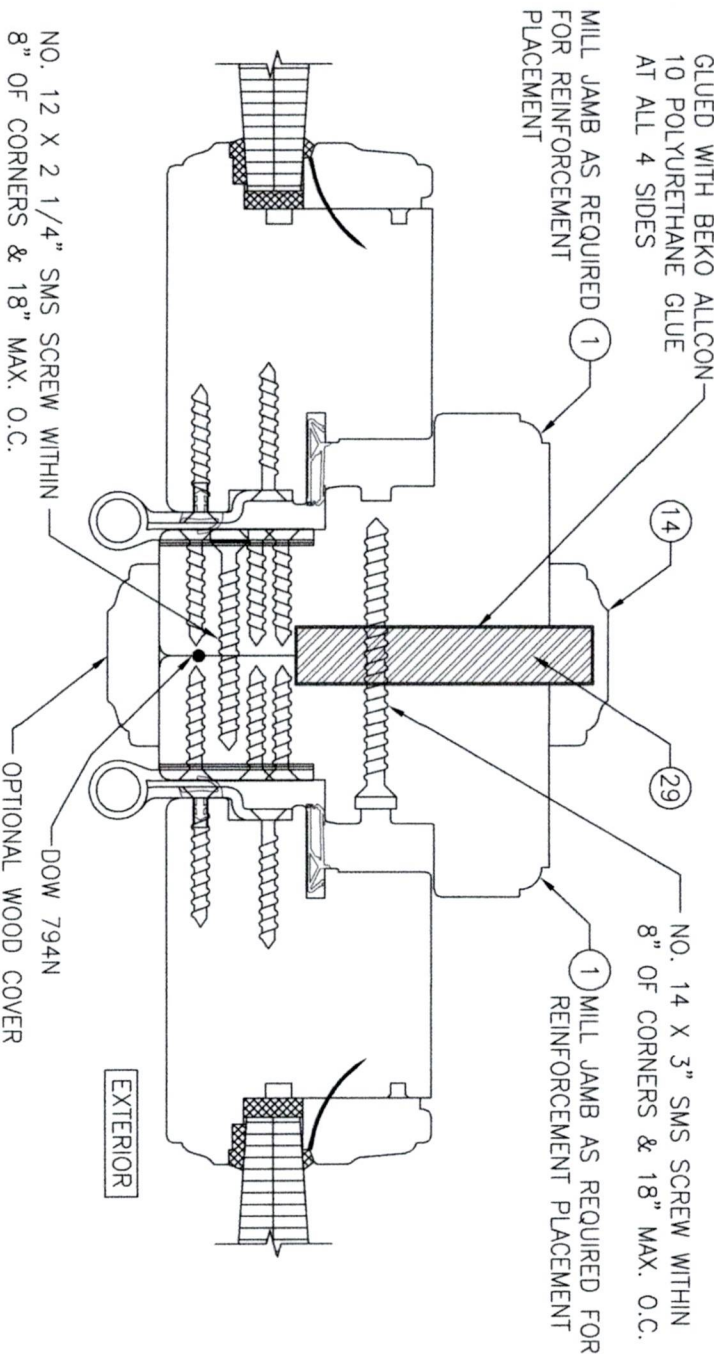
CERTIFICATION	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1616
REV.	D
SHEET NO.	8 OF 17



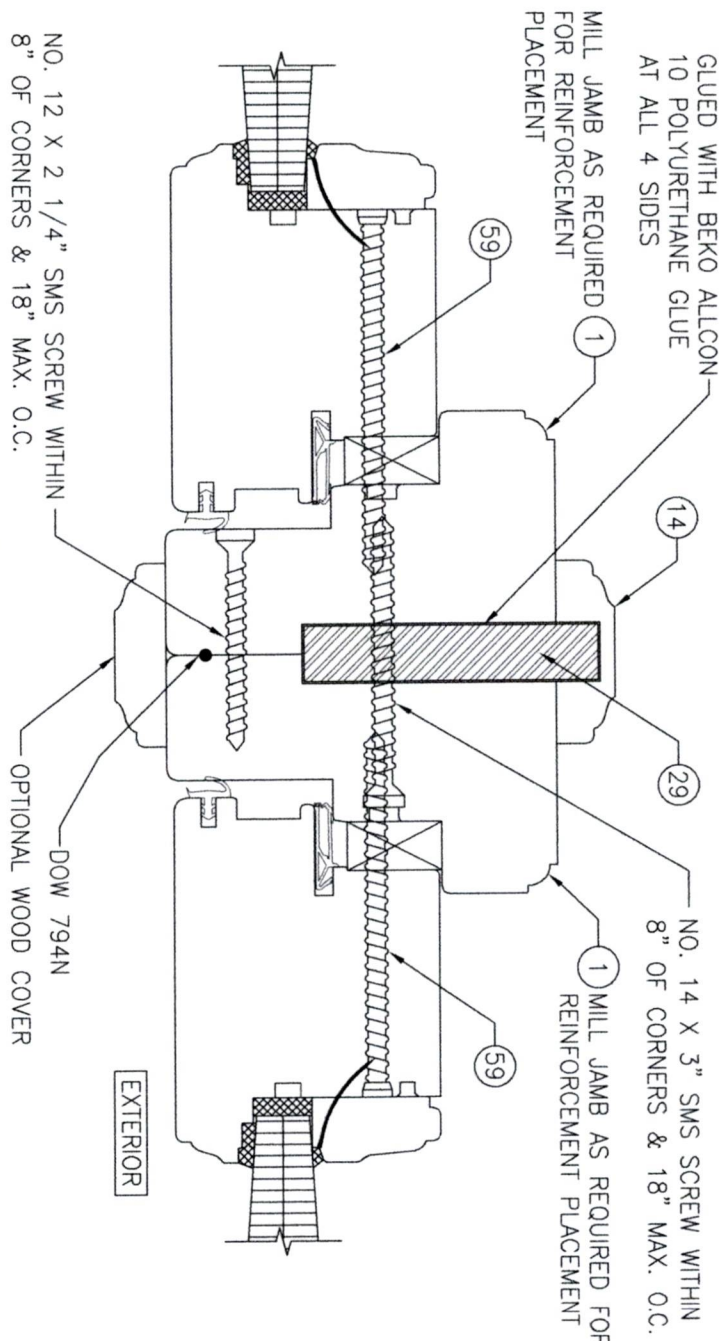
SECTION F
SCALE: 1/2 FULL



SECTION G1
SCALE: 1/2 FULL



SECTION G2
SCALE: 1/2 FULL



SECTION G3
SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

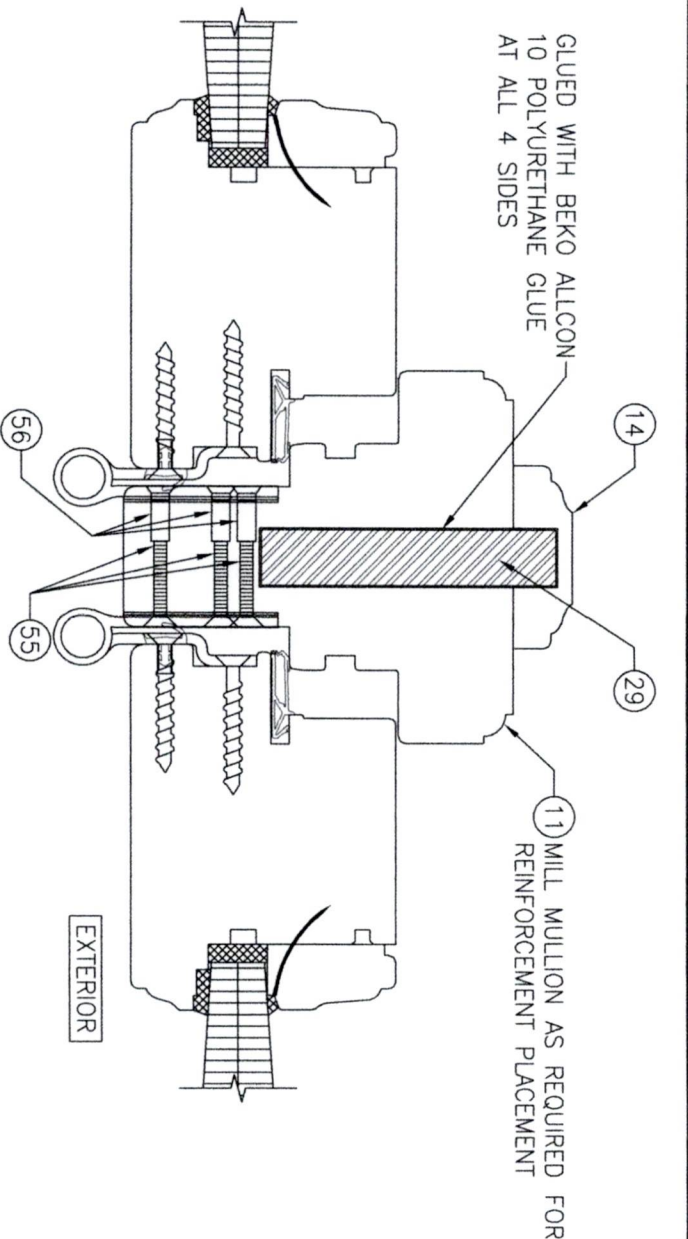
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

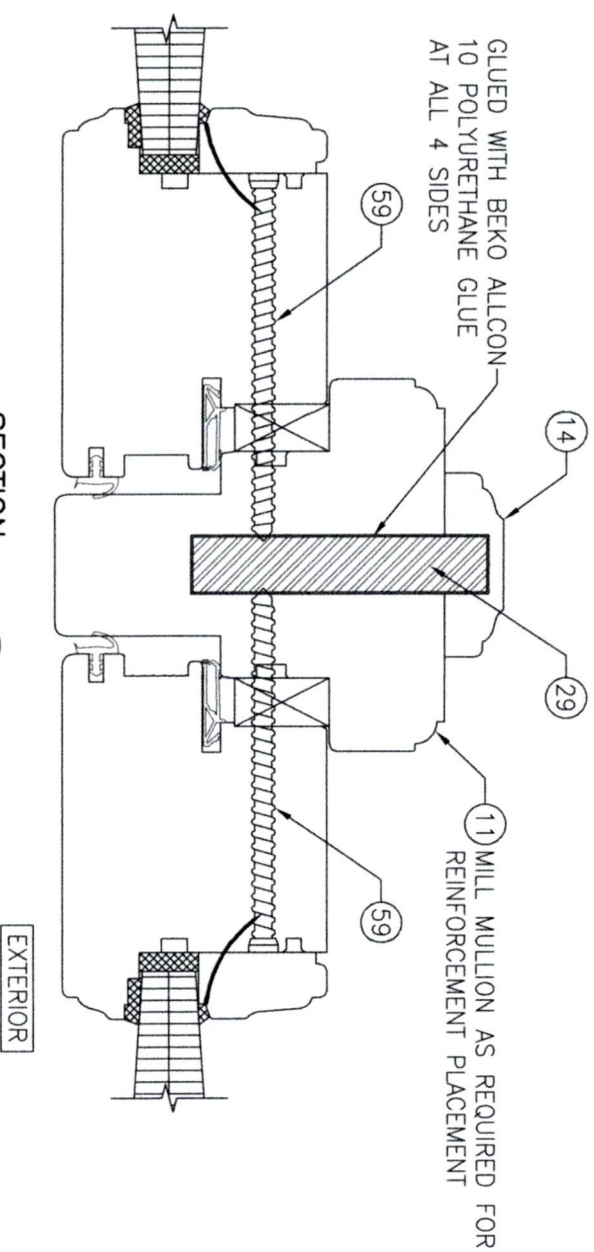
NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE OUT-SWING IMPACT WOOD PANEL DOORS		MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		CHECKED BY: W.W.S.	

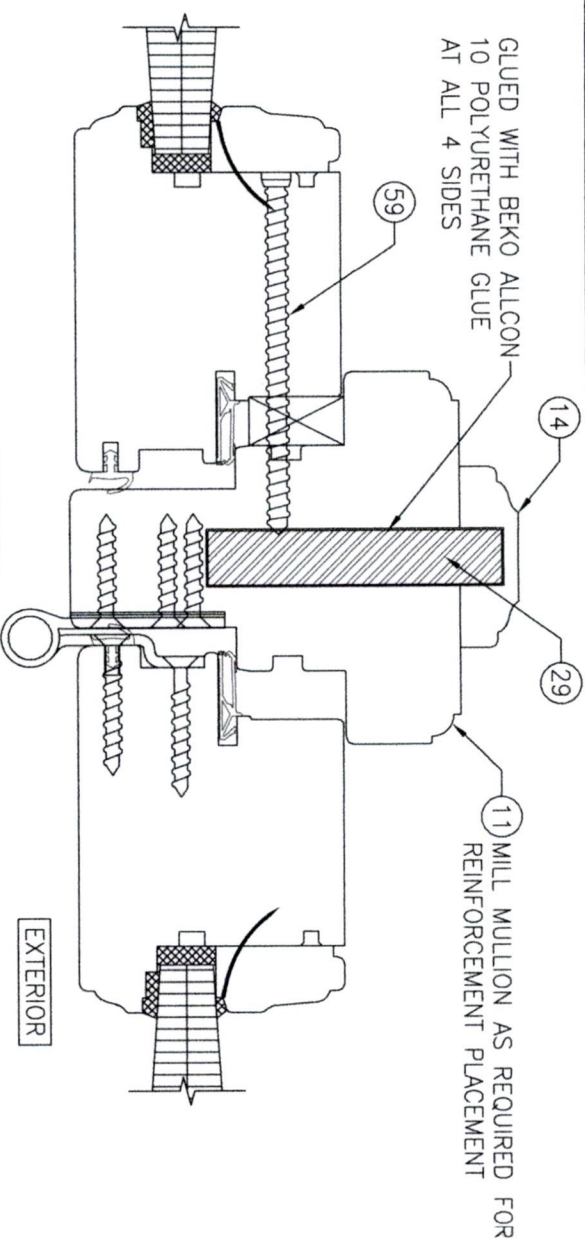
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1616	REV. D
SHEET NO. 9 OF 17		DATE: 10/08/08	



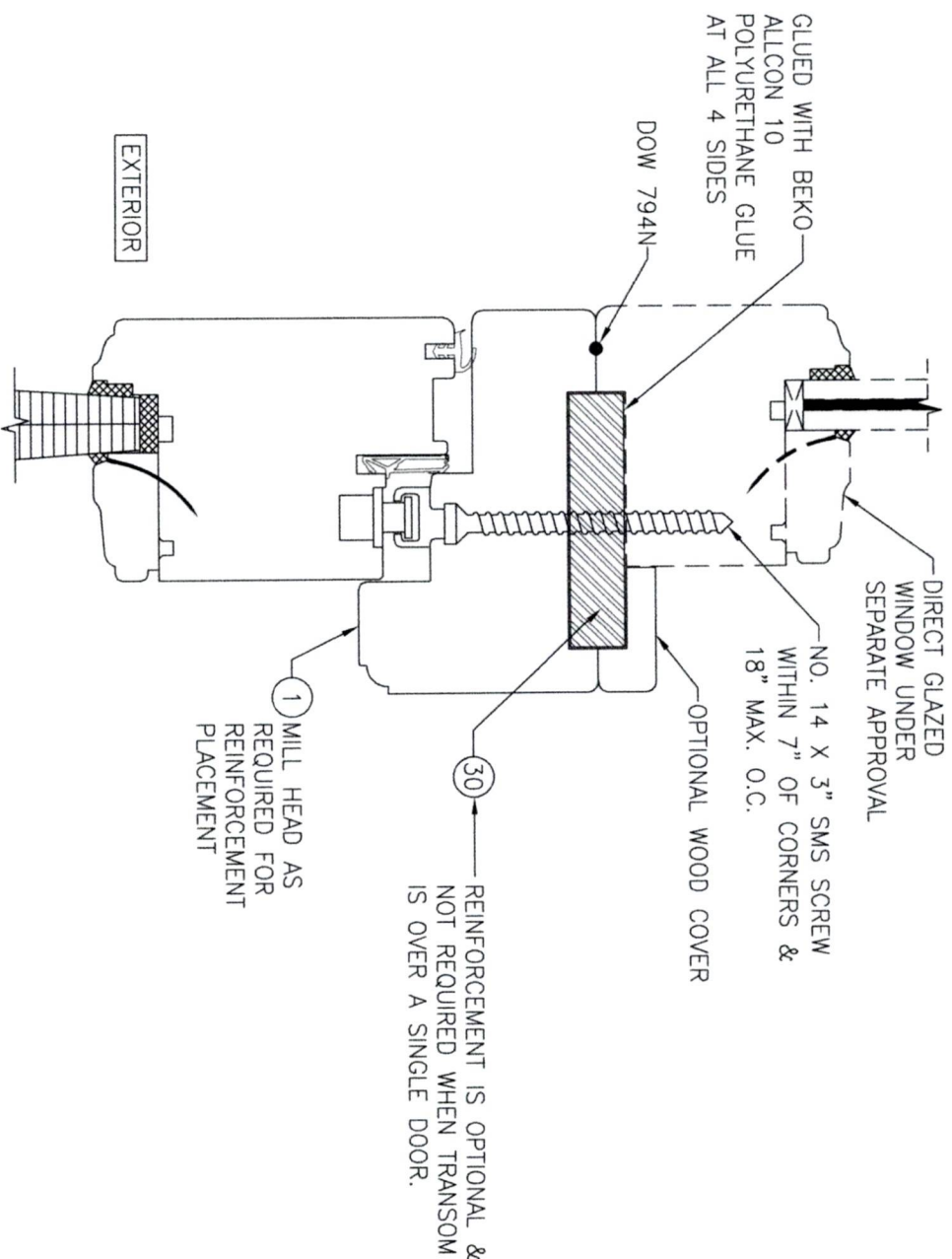
SECTION
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G4
10



SECTION
SCALE: 1/2 FULL
G6
10



SECTION
SCALE: 1/2 FULL
G5
10



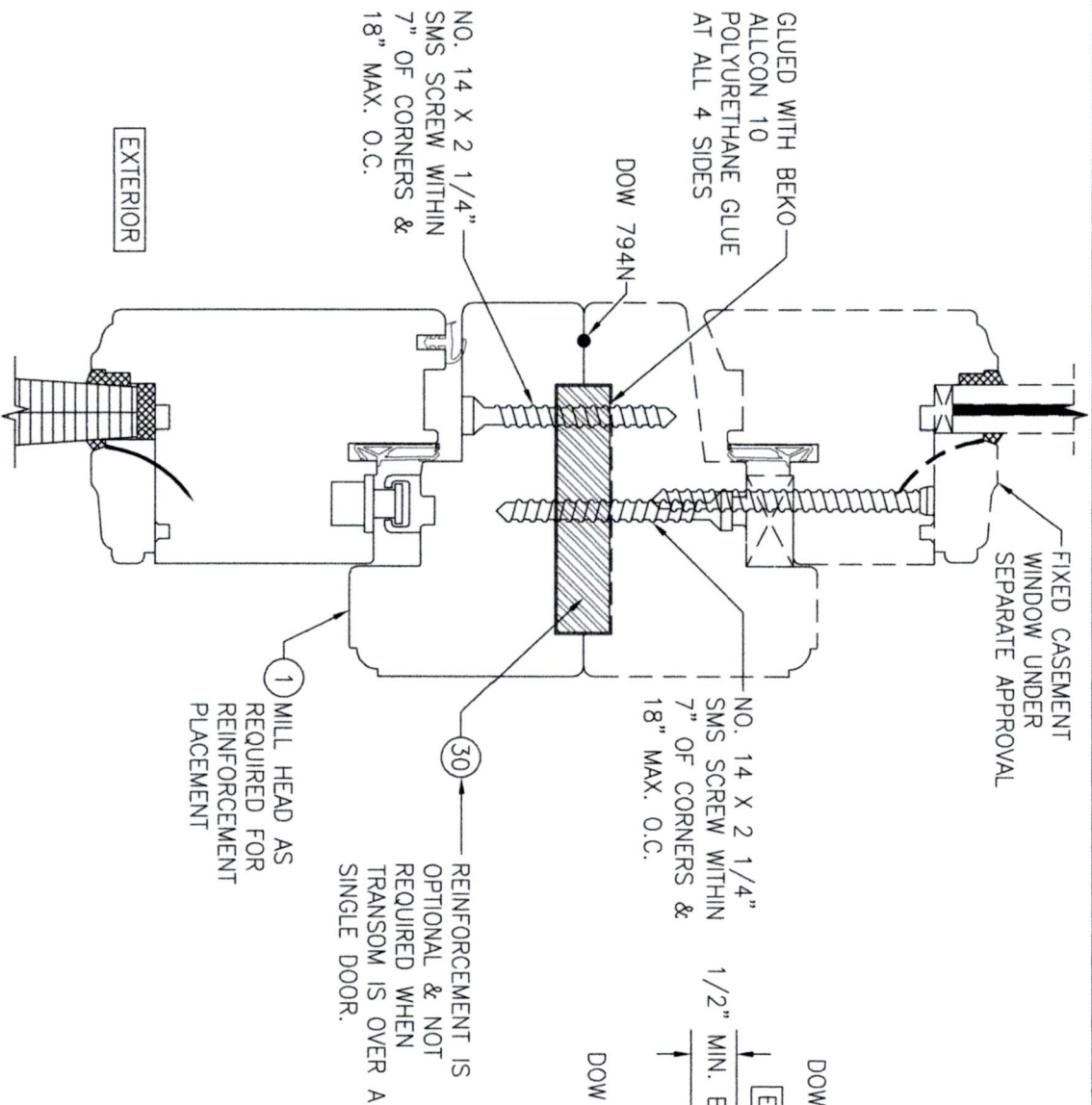
SECTION
SCALE: 1/2 FULL
H1
10

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR IS MULLED THE SAME)

NO.	REVISION	DESCRIPTION	BY	DATE

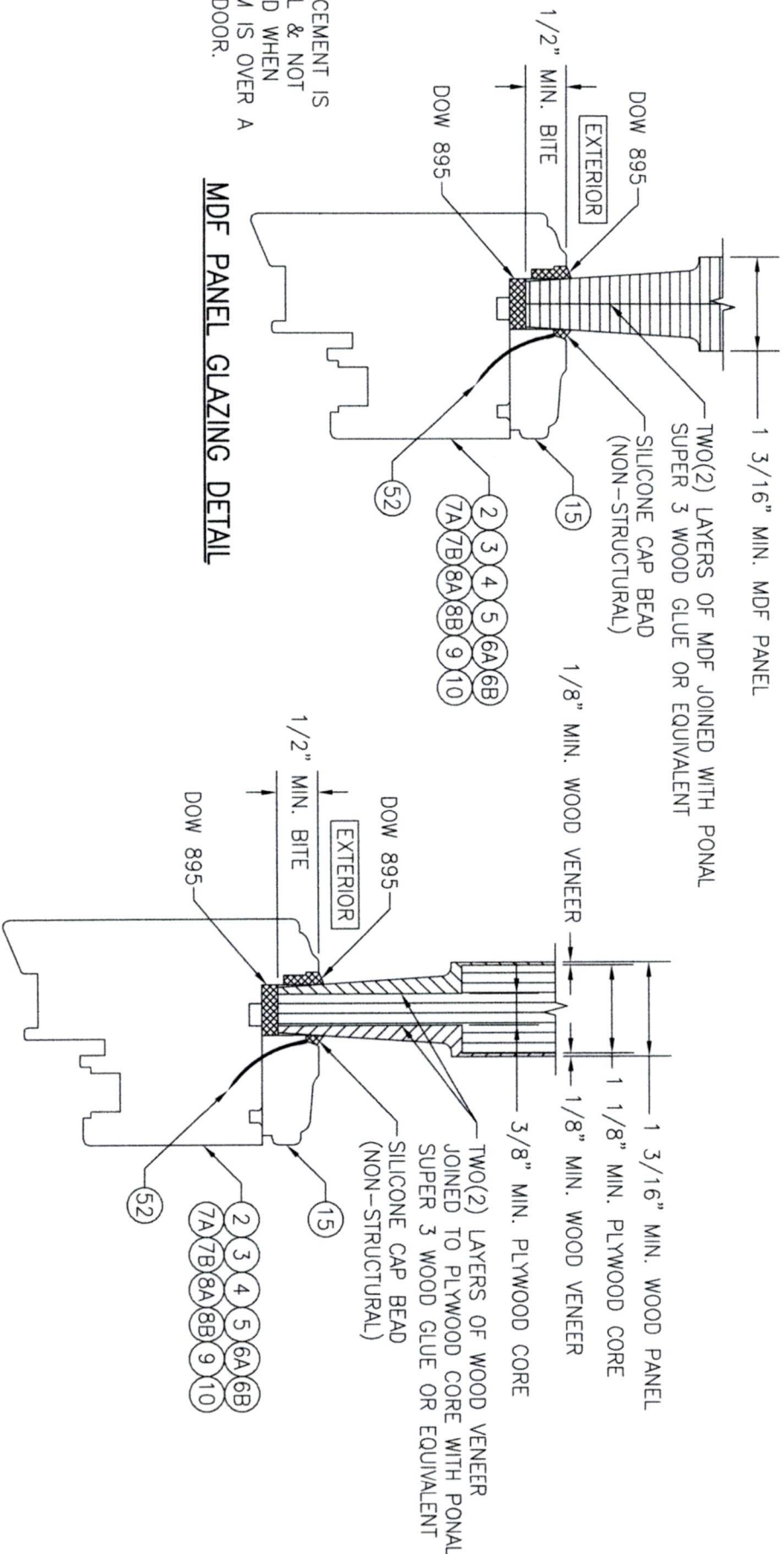
DRAWING TITLE		MANUFACTURER
OUT-SWING IMPACT WOOD PANEL DOORS		TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
CONSULTANTS		
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		

CERTIFICATION		DRAWING NO.	REV.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		1616	D
		SHEET NO.	10 OF 17

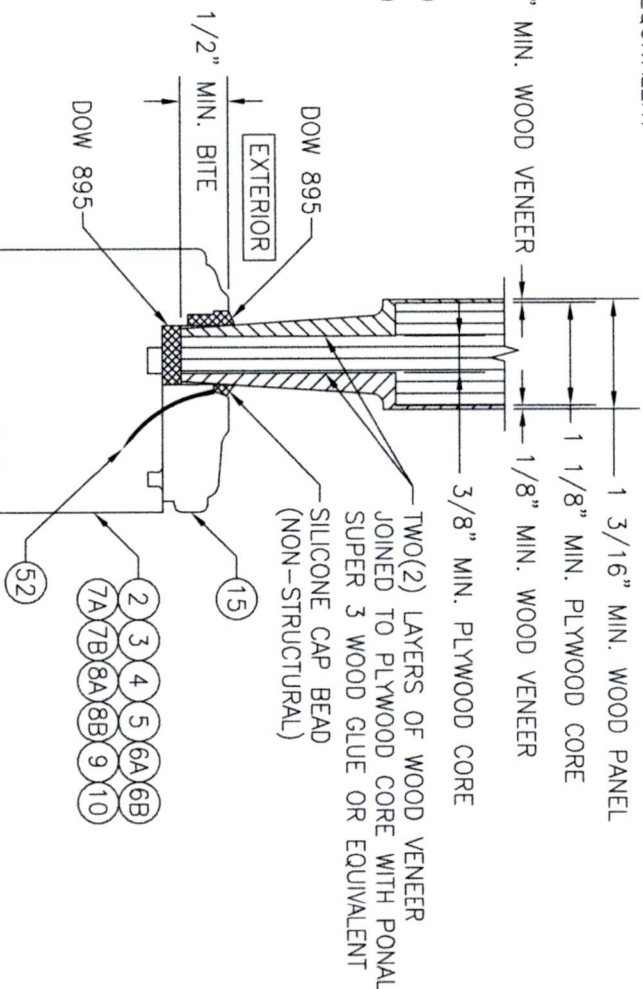


(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR
IS MULLED THE SAME)

MDF PANEL GLAZING DETAIL



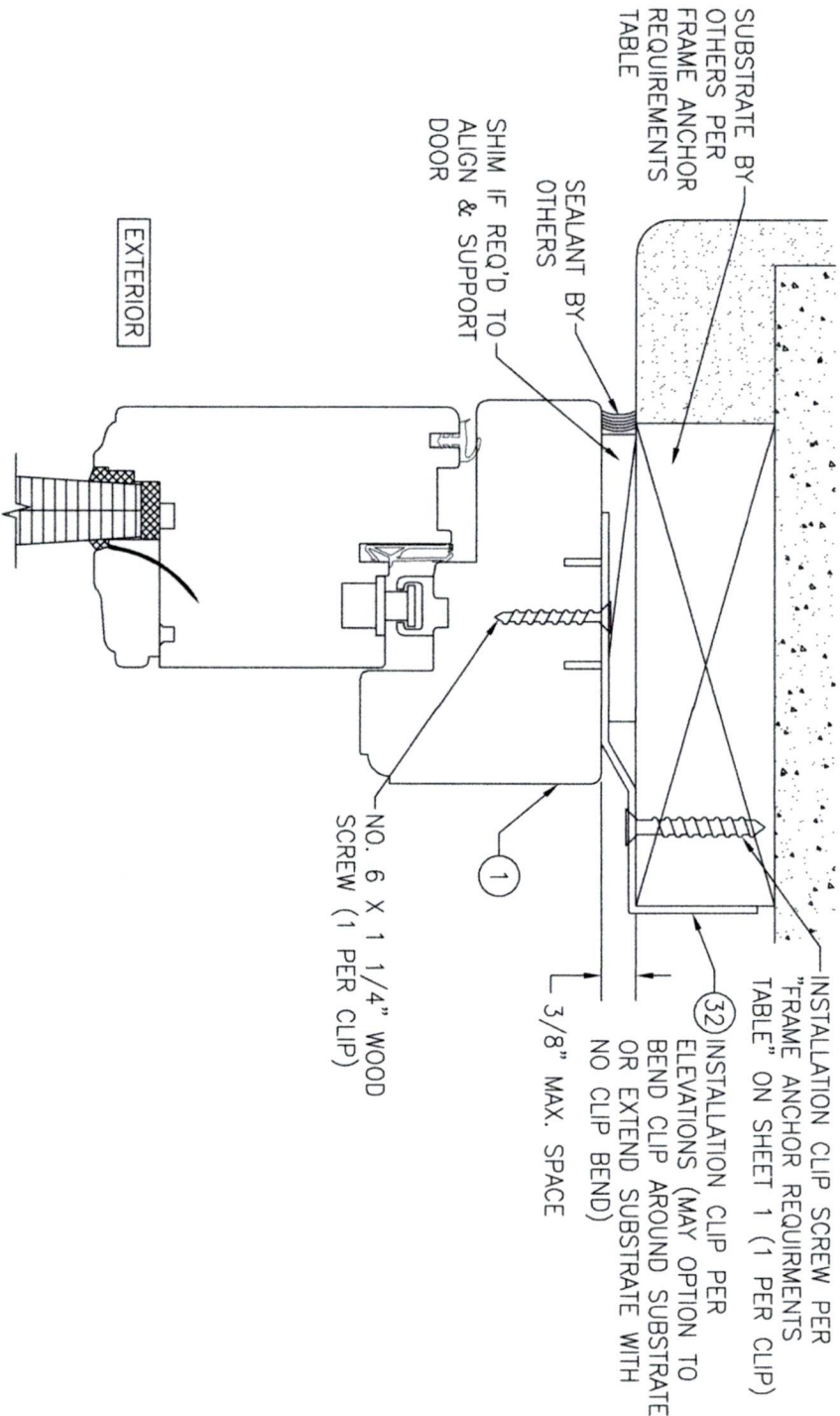
WOOD VENEER PANEL GLAZING DETAIL



NO.	REVISION	DESCRIPTION	BY	DATE

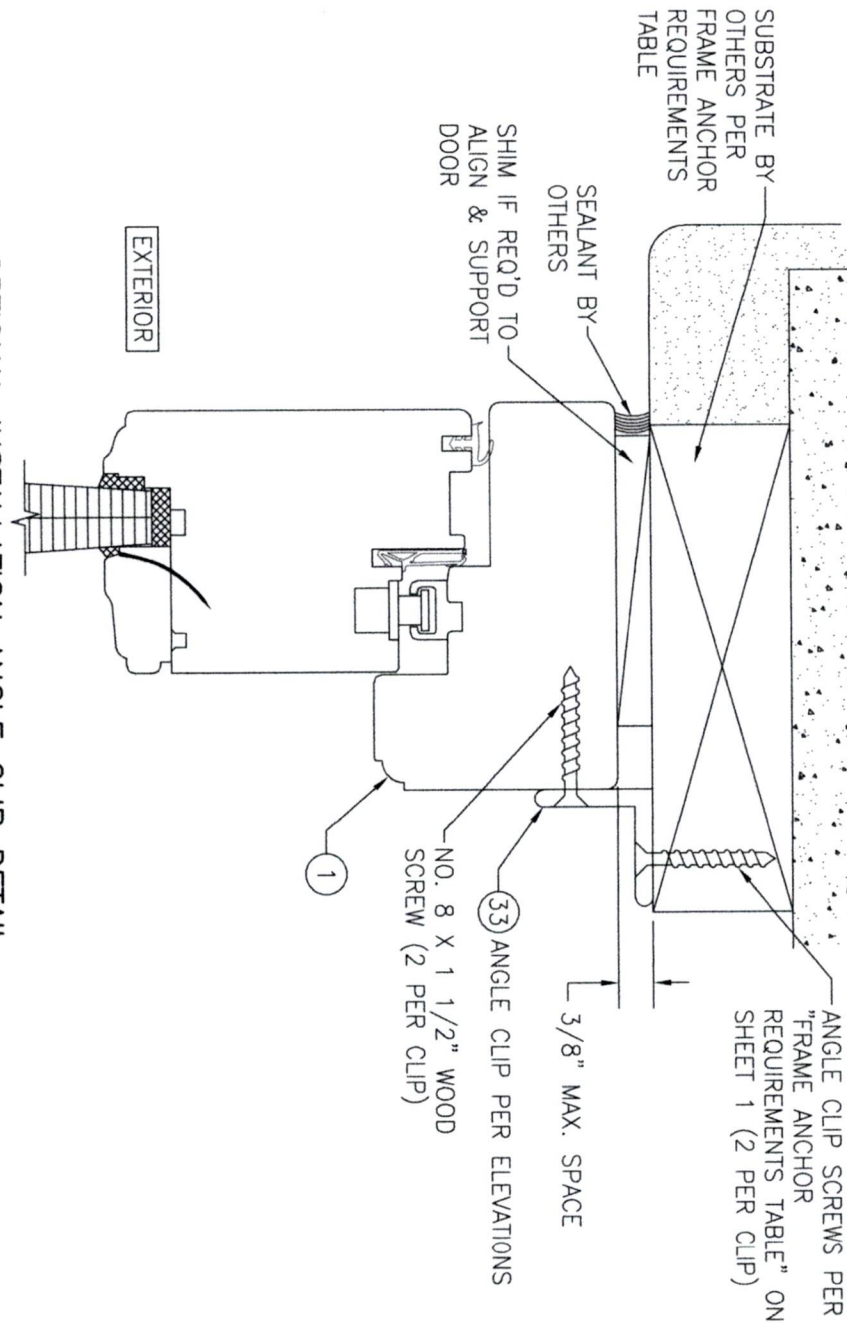
DRAWING TITLE OUT-SWING IMPACT WOOD PANEL DOORS		MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		CHECKED BY: W.M.S. DATE: 10/08/08	

CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. REV. 1616 D	SHEET NO. 11 OF 17
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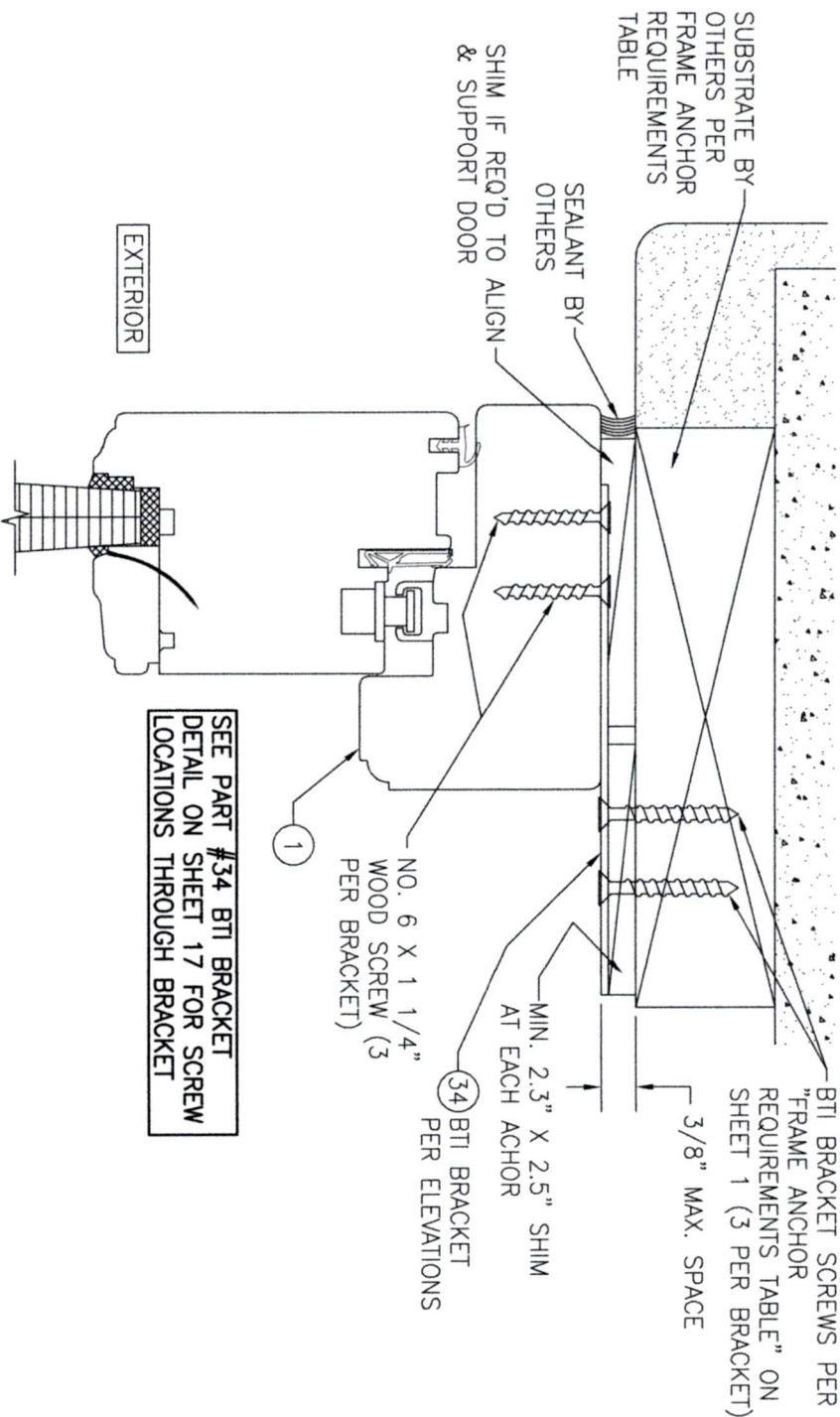
OPTIONAL INSTALLATION CLIP DETAIL

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



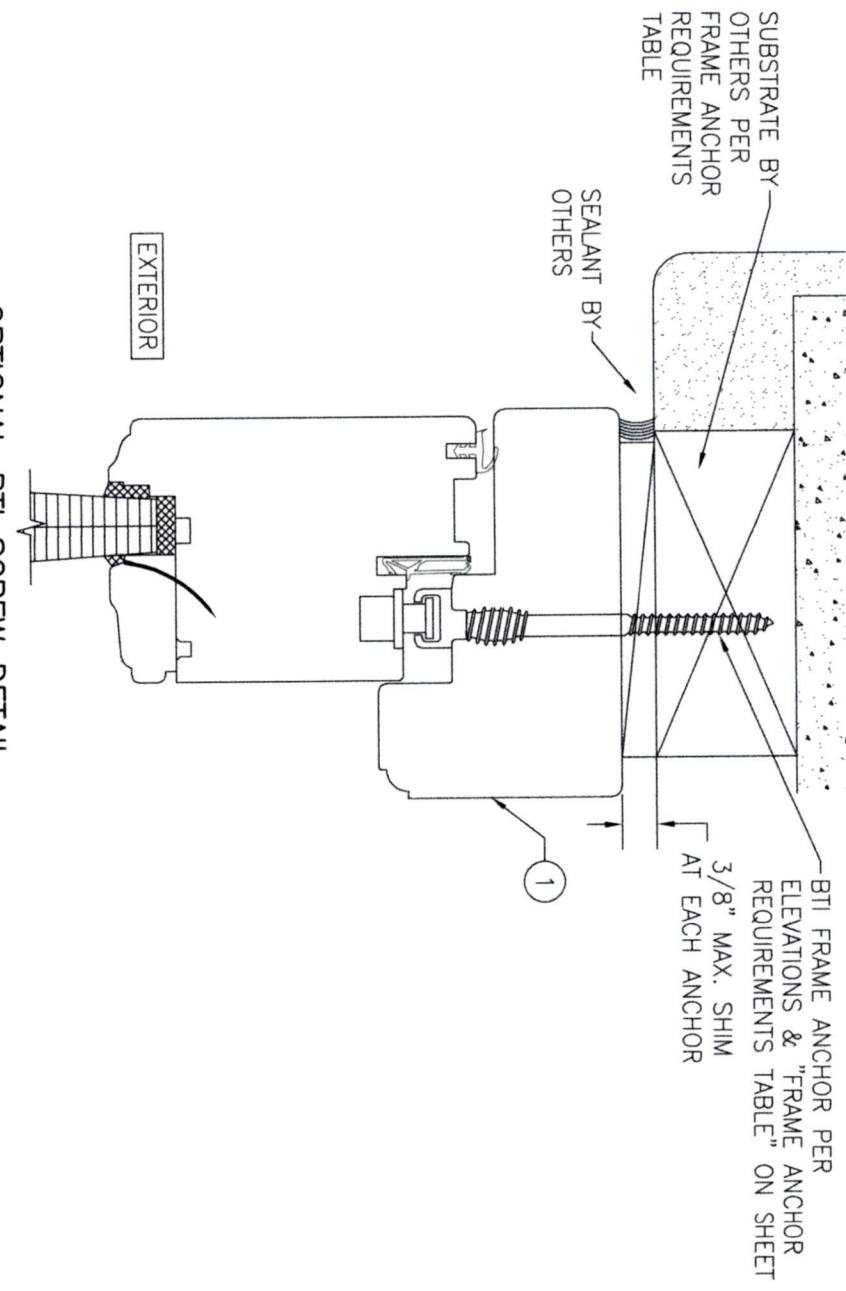
OPTIONAL INSTALLATION ANGLE CLIP DETAIL

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



OPTIONAL INSTALLATION BTI BRACKET DETAIL

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



OPTIONAL BTI SCREW DETAIL

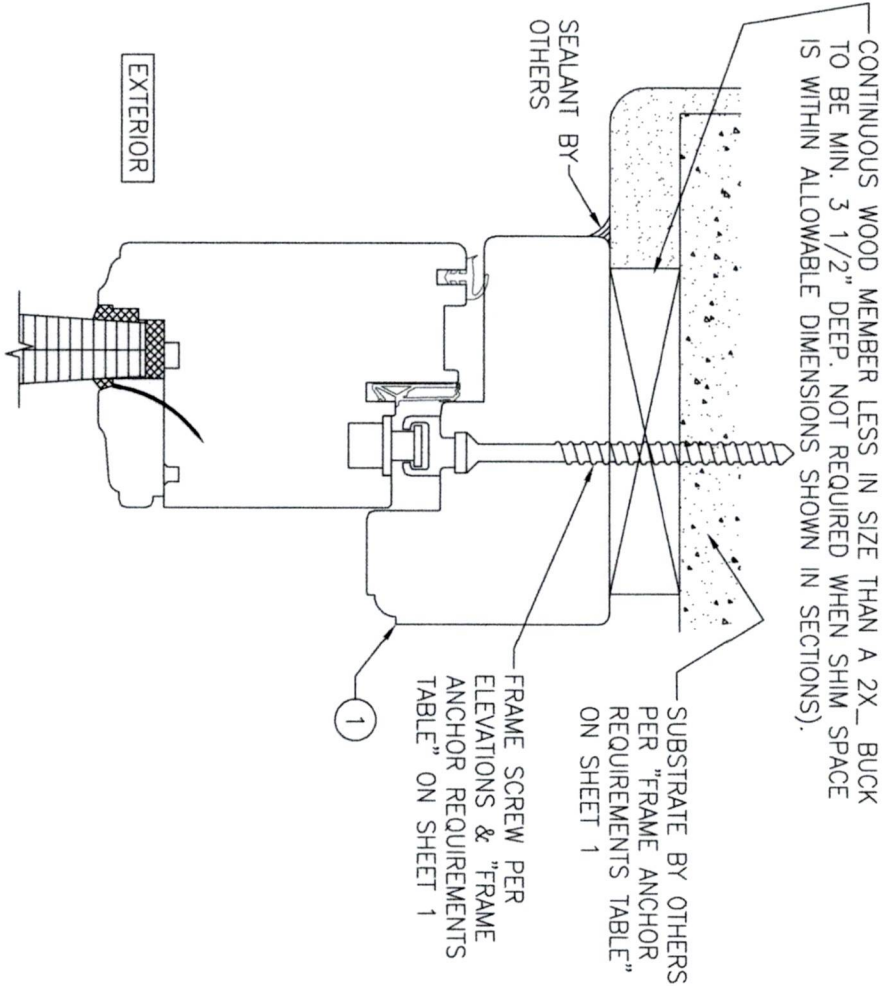
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO.	REVISION DESCRIPTION	BY	DATE	PLT:	DRAWN BY:	CHECKED BY:
				1-2	W.R.M.	W.M.S.

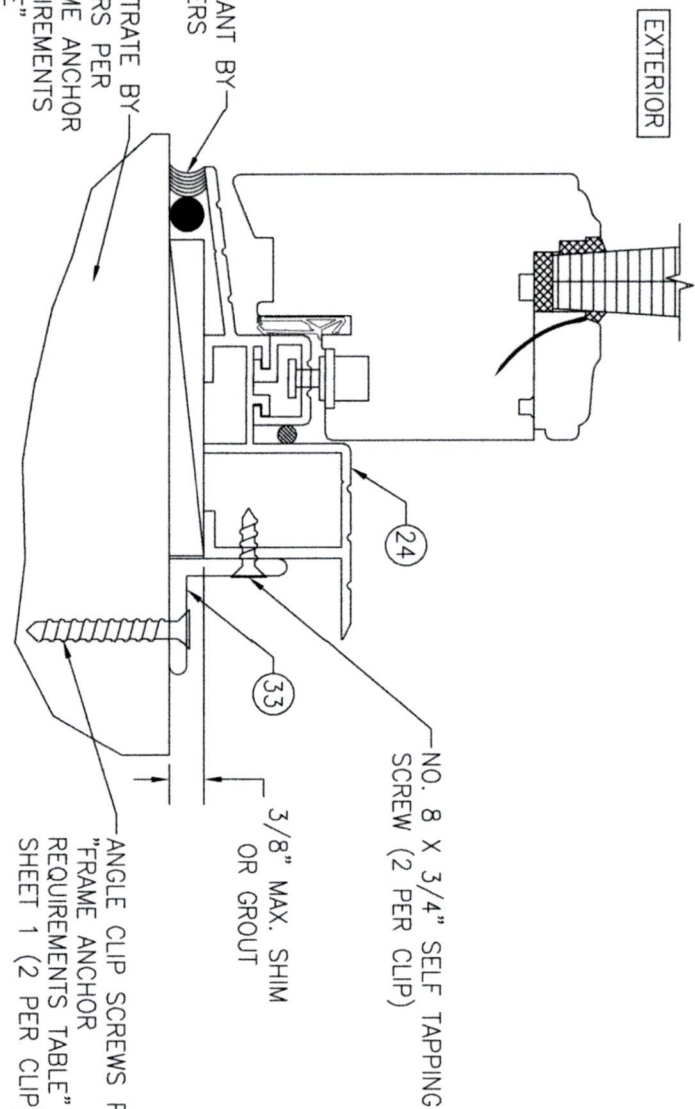
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

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

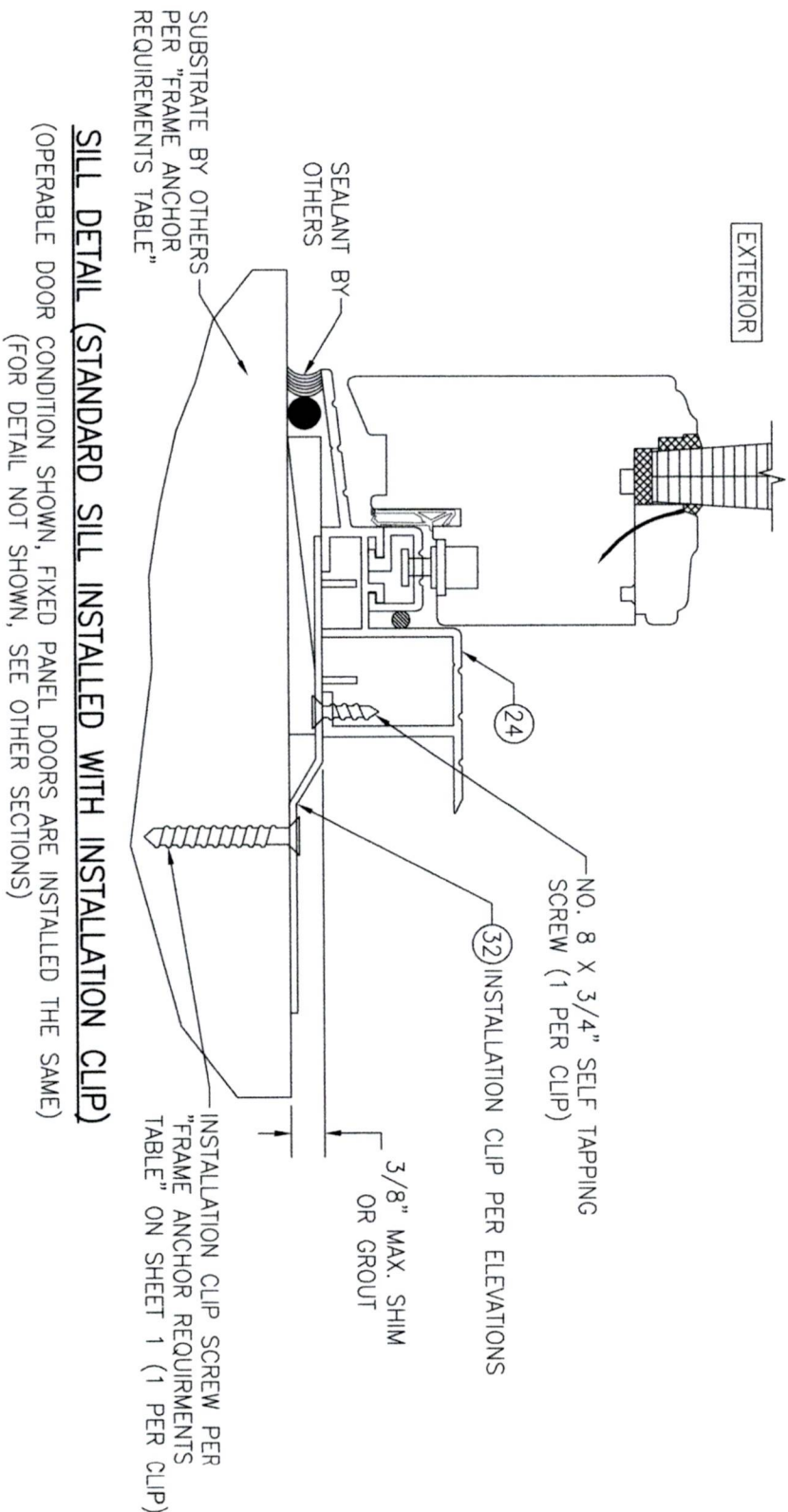
<u>CERTIFICATION</u>	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1616	D
SHEET NO.	
12 OF 17	



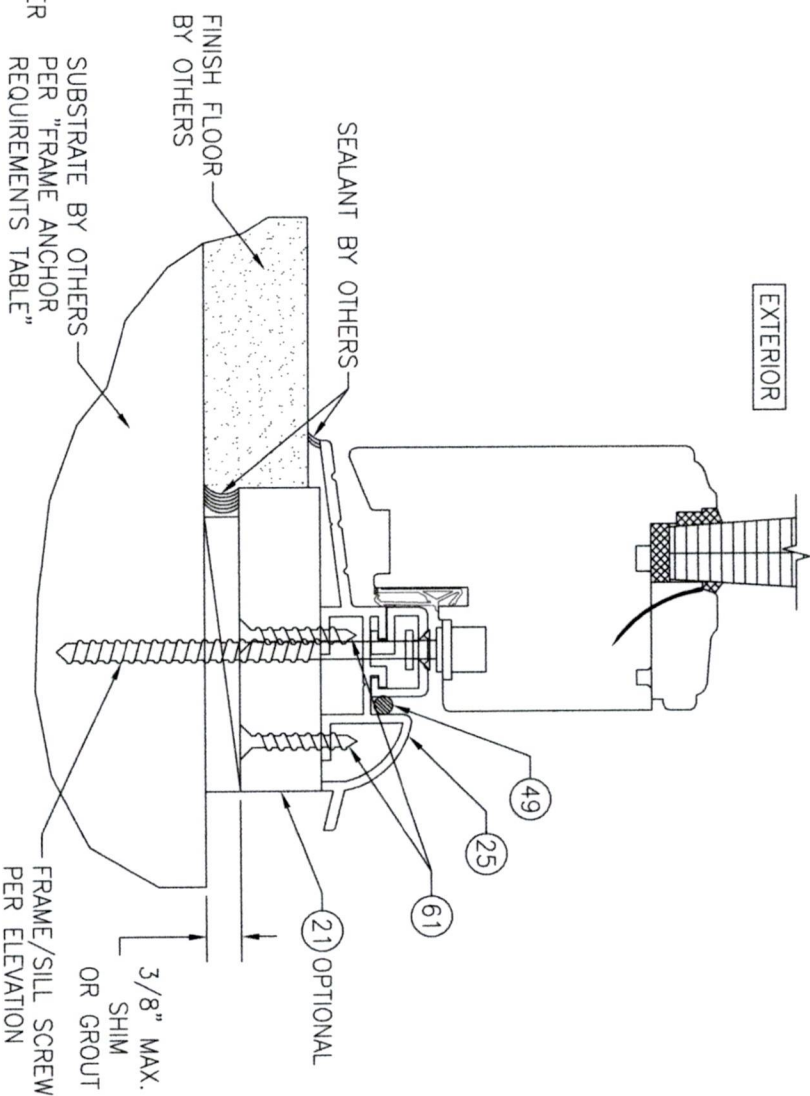
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SILL DETAIL (STANDARD SILL INSTALLED WITH ANGLE CLIP)
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SILL DETAIL (STANDARD SILL INSTALLED WITH INSTALLATION CLIP)
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

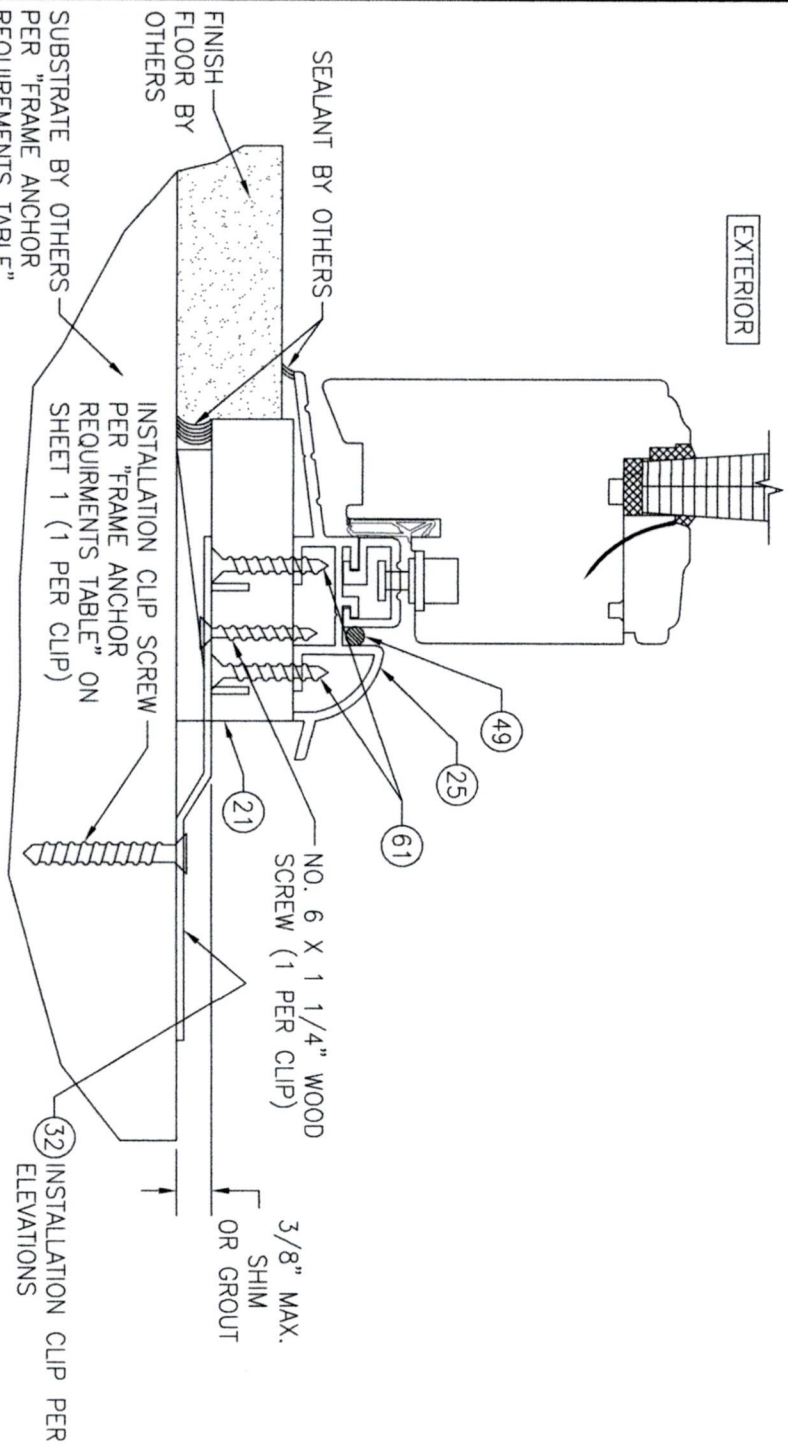


SILL DETAIL (OPTIONAL SILL INSTALLED WITH FRAME/SILL SCREW)
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

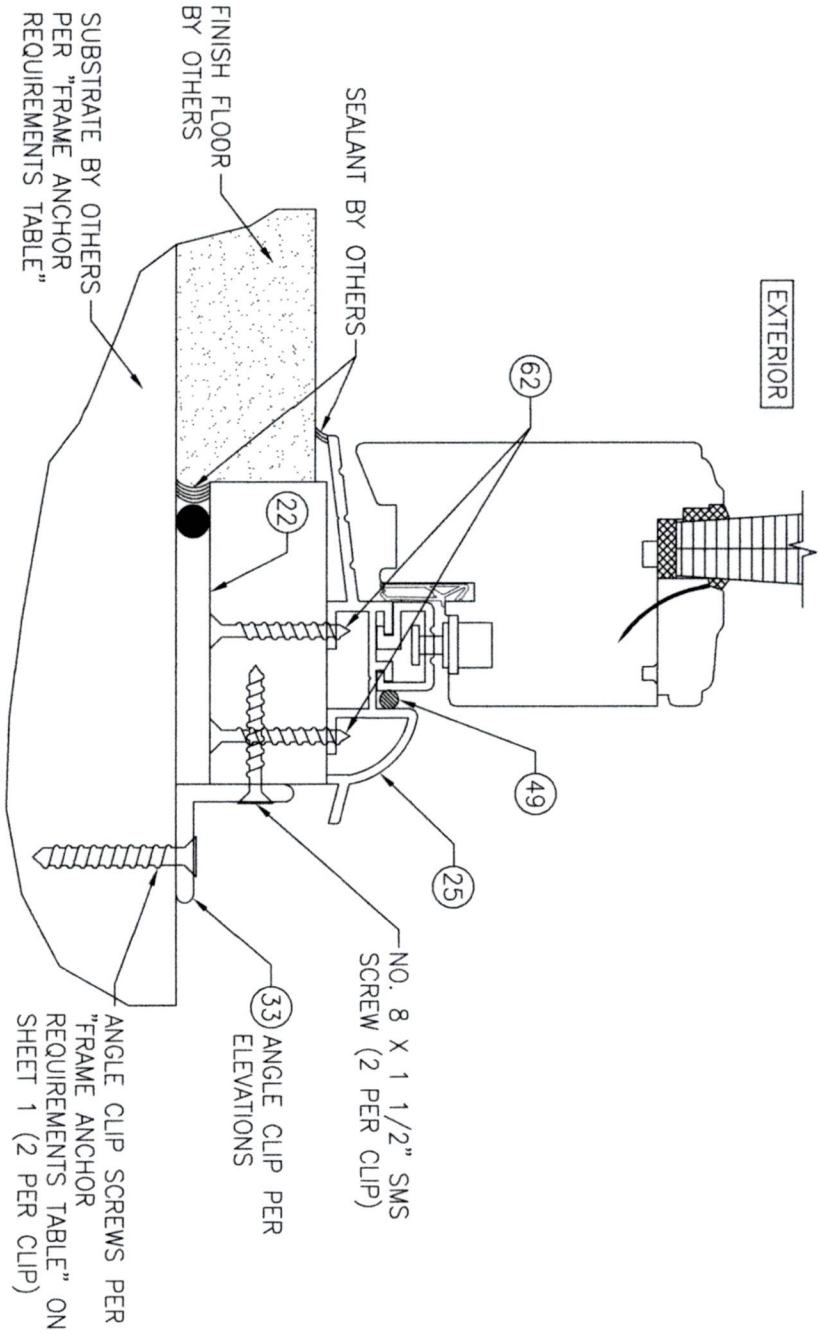
NO.	REVISION	DESCRIPTION	BY	DATE
1	2			

DRAWING TITLE	CONSULTANTS	MANUFACTURER
OUT-SWING IMPACT WOOD PANEL DOORS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600

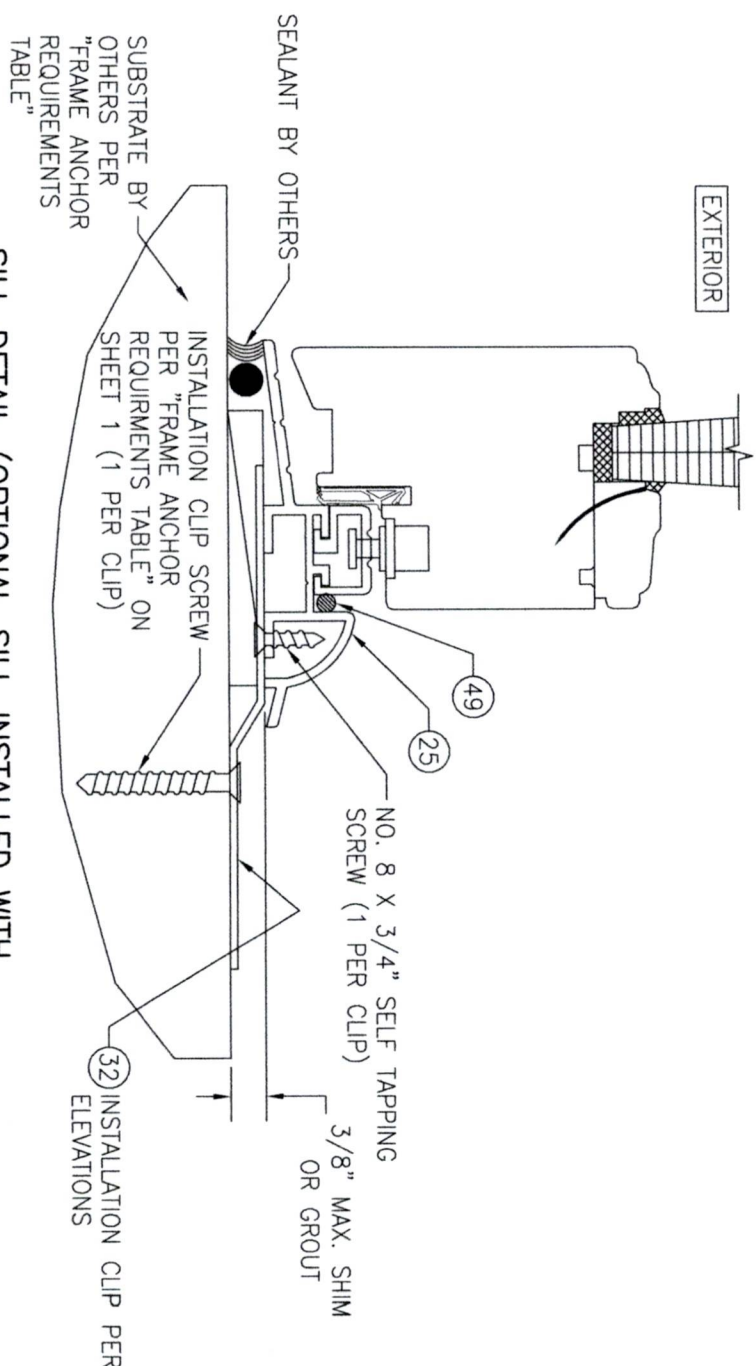
CERTIFICATION	DRAWING NO.	REV.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1616	D
	SHEET NO.	13 OF 17



**SILL DETAIL (OPTIONAL SILL INSTALLED WITH
INSTALLATION CLIP & SUB-SILL)**
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SILL DETAIL (OPTIONAL SILL INSTALLED WITH ANGLE CLIP)
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

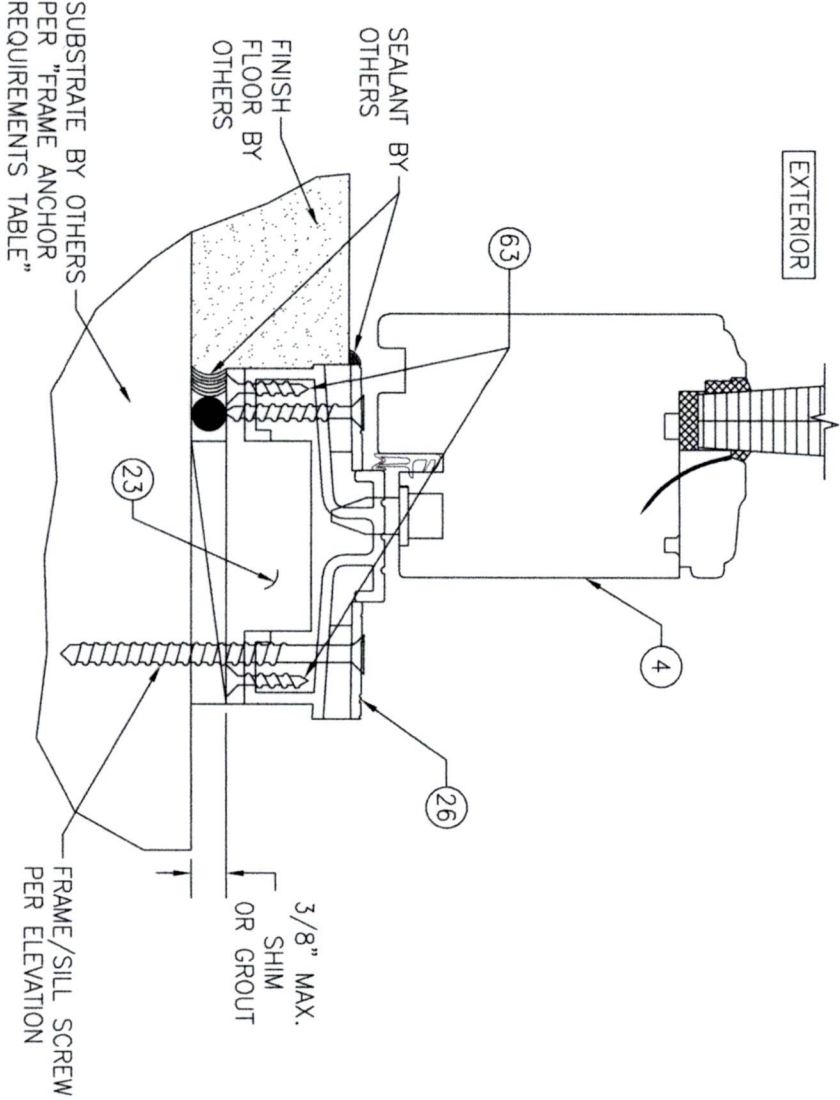


**SILL DETAIL (OPTIONAL SILL INSTALLED WITH
INSTALLATION CLIP & NO SUB-SILL)**
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

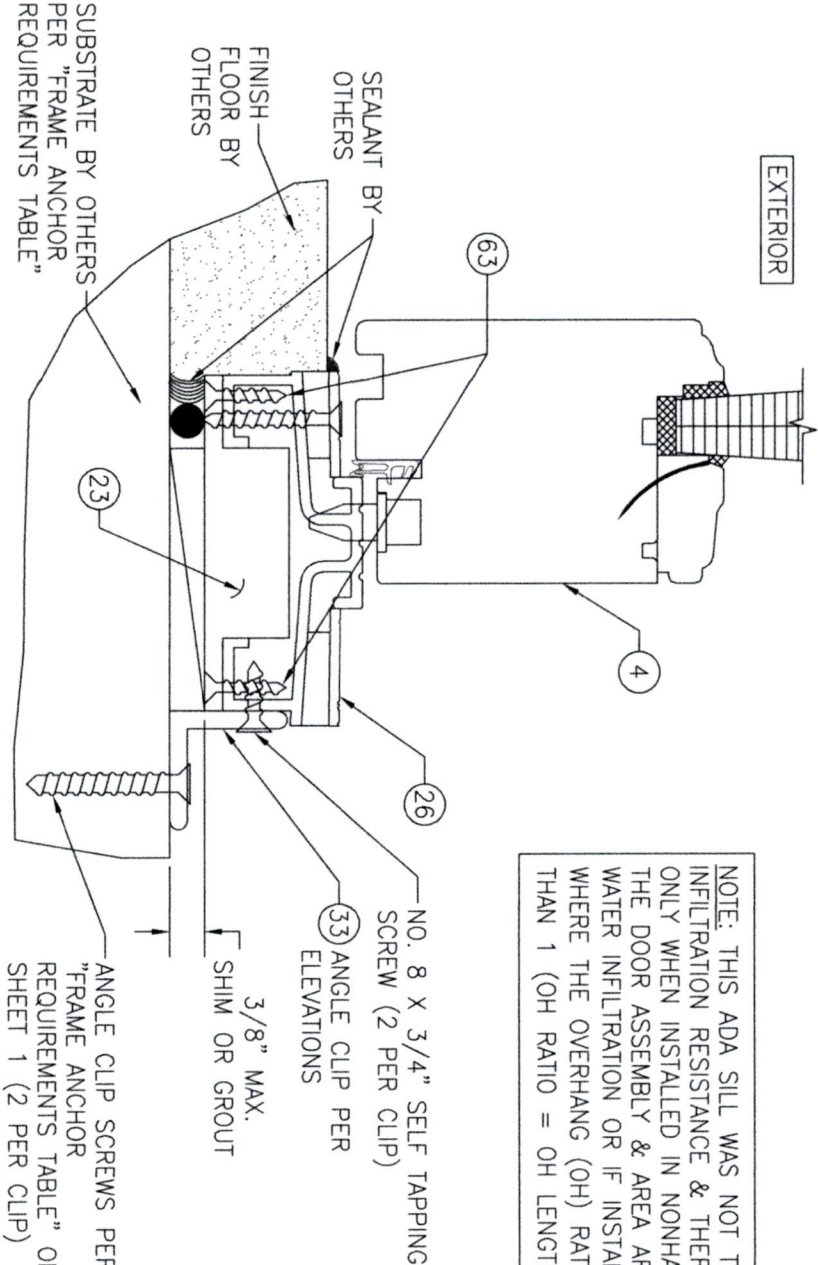
DRAWN BY: W.R.M.		CHECKED BY: W.M.S.		
PLOT: 1=2		DATE: 10/08/08		
NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE	
OUT-SWING IMPACT WOOD PANEL DOORS	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600

CERTIFICATION	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1616	D
SHEET NO.	
14 OF 17	

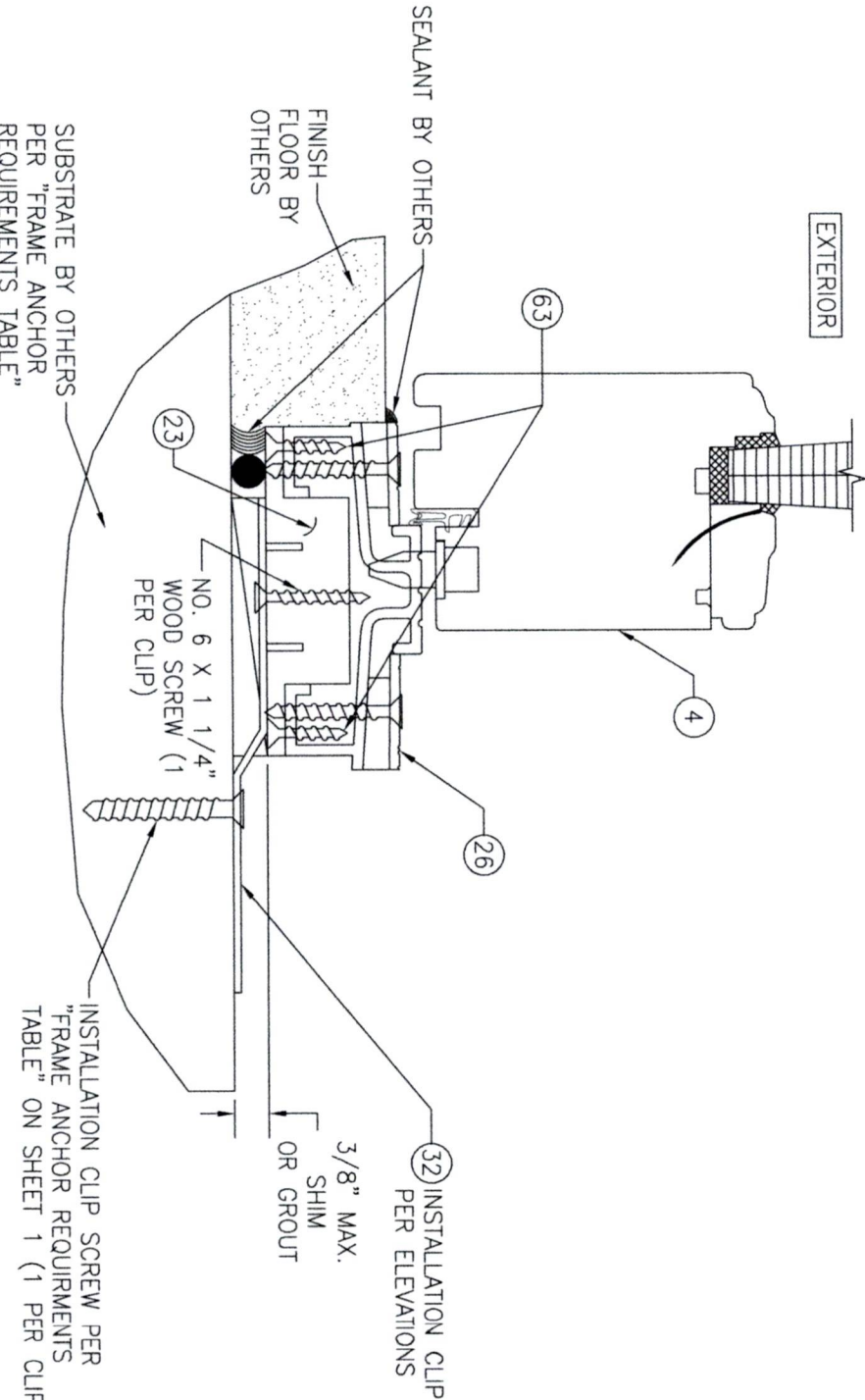


ADA SILL DETAIL (ADA SILL INSTALLED WITH FRAME/SILL SCREW)
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

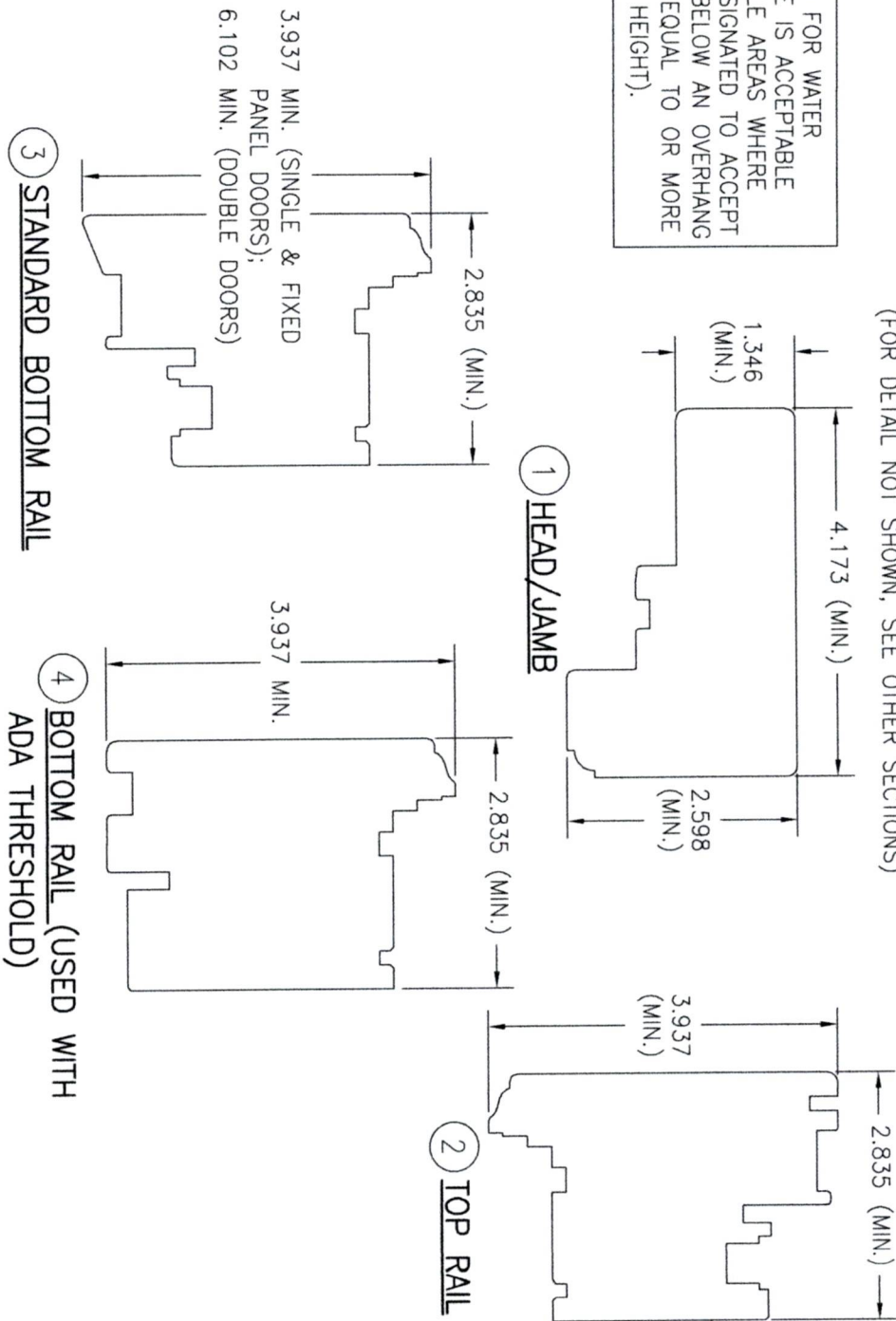


NOTE: THIS ADA SILL WAS NOT TESTED FOR WATER INFILTRATION RESISTANCE & THEREFORE IS ACCEPTABLE ONLY WHEN INSTALLED IN NONHABITABLE AREAS WHERE THE DOOR ASSEMBLY & AREA ARE DESIGNATED TO ACCEPT WATER INFILTRATION OR IF INSTALLED BELOW AN OVERHANG WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 (OH RATIO = OH LENGTH/OH HEIGHT).

ADA SILL DETAIL (ADA SILL INSTALLED WITH ANGLE CLIP)
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



ADA SILL DETAIL (ADA SILL INSTALLED WITH INSTALLATION CLIP)
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS 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.M.S.
						DATE: 10/08/08	

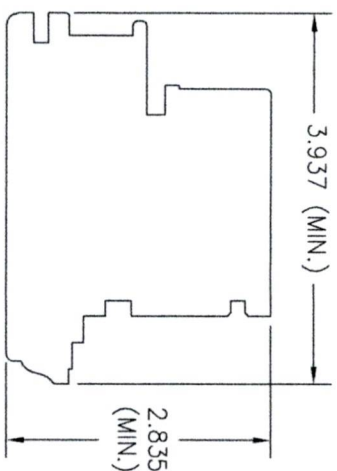
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

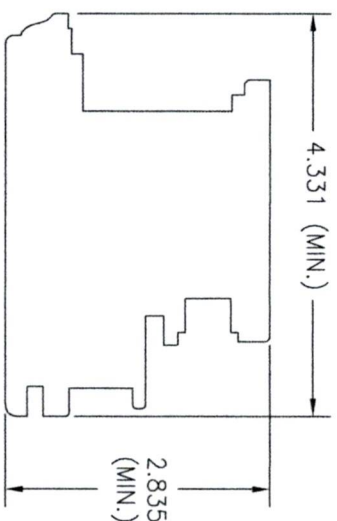
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

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

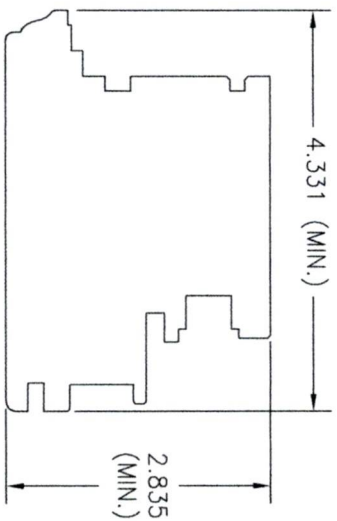
DRAWING NO. **1616** REV. **D**
SHEET NO. **15** OF **17**



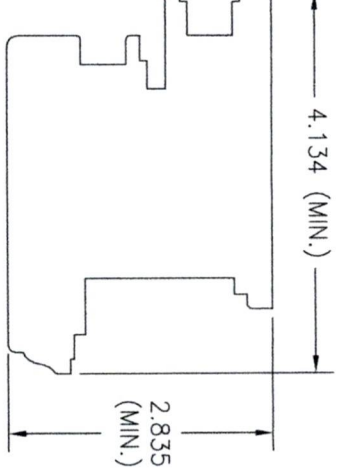
5 STILE



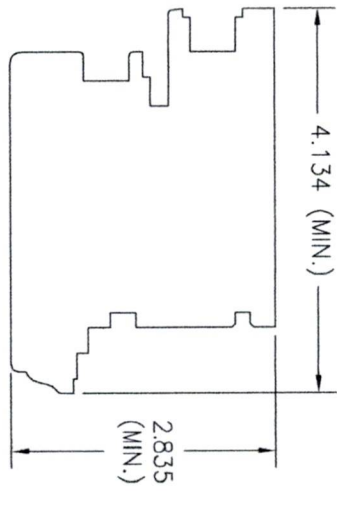
6A ACTIVE MEETING STILE (USED WITH REINFORCEMENT)



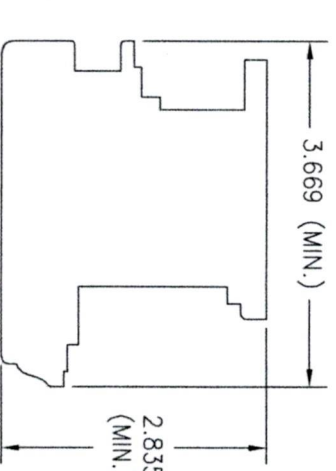
6B ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)



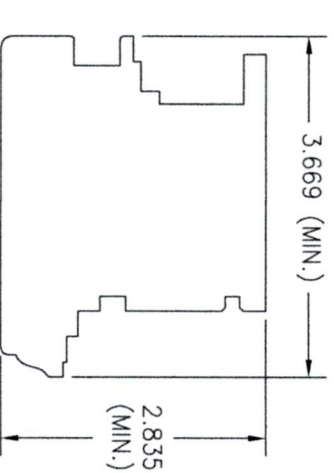
7A INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)



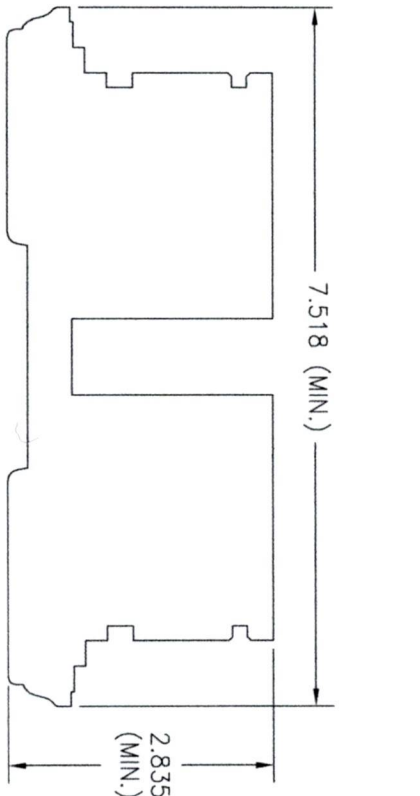
7B INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)



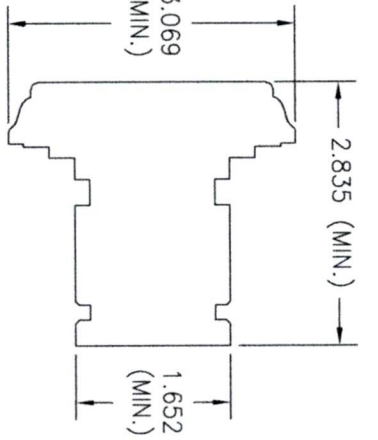
8A INACTIVE MEETING STILE (USED WITH KPV LOCK SYSTEM & REINFORCEMENT)



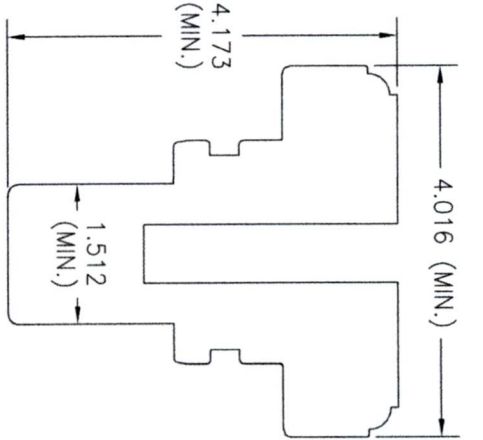
8B INACTIVE MEETING STILE (USED WITH KPV LOCK SYSTEM & WITHOUT REINFORCEMENT)



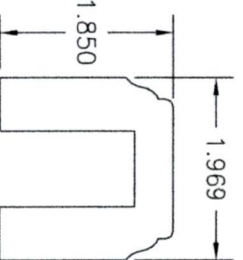
9 FIXED ASTRAGAL



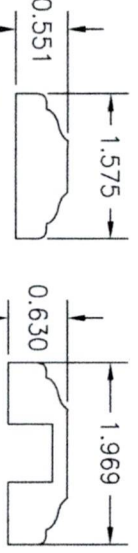
10 MID-RAIL



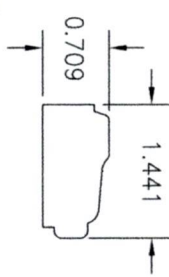
11 ONE-PIECE MULLION



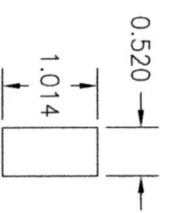
13 ASTRAGAL



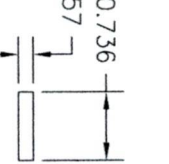
14 ONE-PIECE MULLION



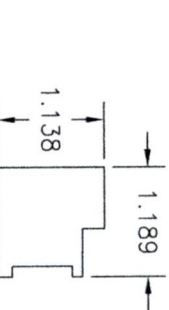
15 GLAZING BEAD



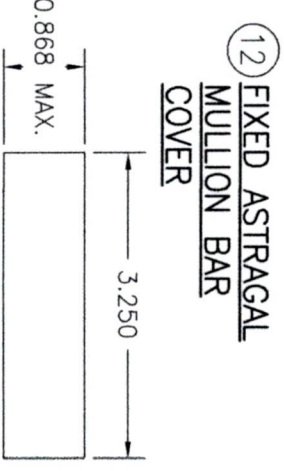
18 SPACER BLOCK



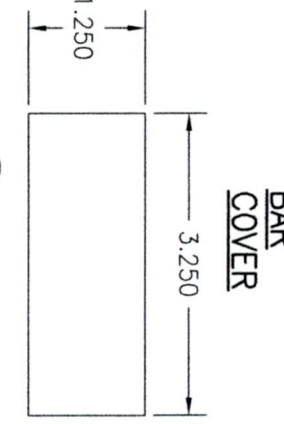
19 SPACER BLOCK



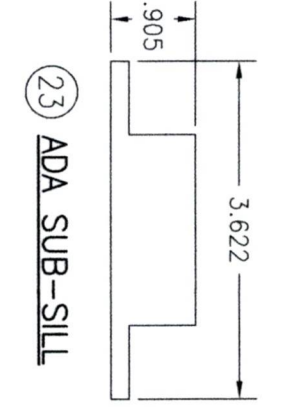
20 SPACER BLOCK (USED WITH KPV MULTI-POINT LOCK SYSTEM)



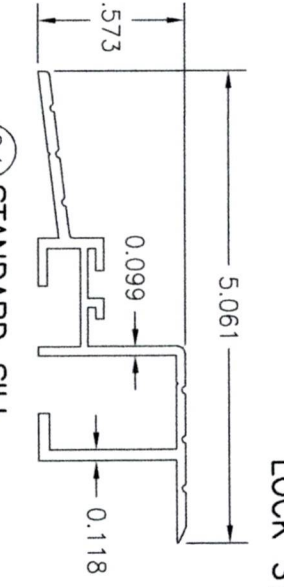
12 FIXED ASTRAGAL MULLION BAR COVER



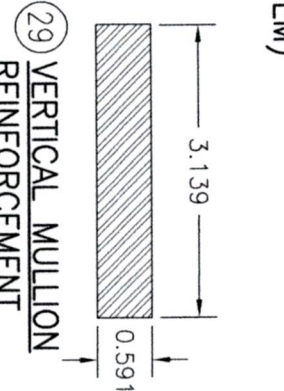
22 SUB-SILL



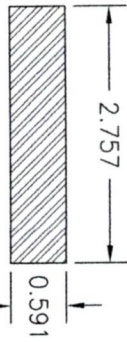
23 ADA SUB-SILL



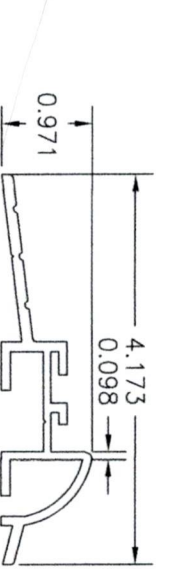
24 STANDARD SILL



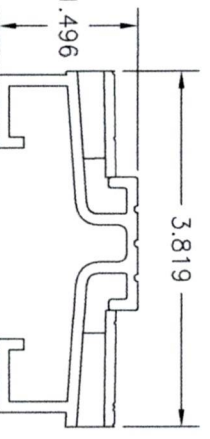
29 VERTICAL MULLION REINFORCEMENT



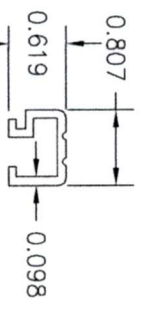
30 TRANSOM MULLION REINFORCEMENT



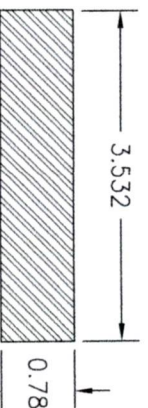
25 OPTIONAL SILL



26 OPTIONAL ADA SILL



27 CONTINUOUS SILL STRIKE/COVER

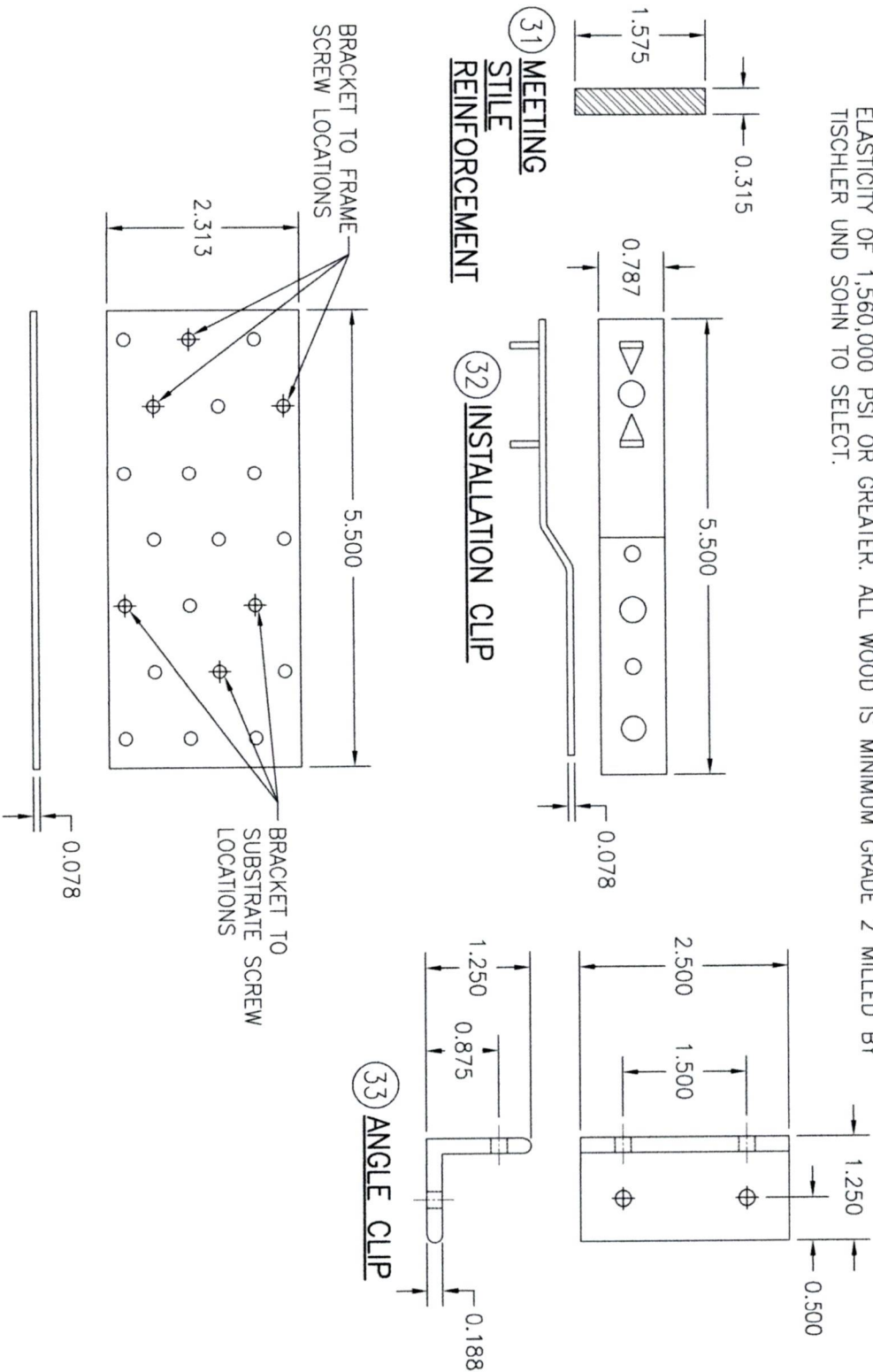


28 VERTICAL FIXED ASTRAGAL REINFORCEMENT

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	HEAD/JAMB	MAHOGANY
2	TOP RAIL	MAHOGANY
3	STANDARD BOTTOM RAIL	MAHOGANY
4	BOTTOM RAIL (USED WITH ADA THRESHOLD)	MAHOGANY
5	STILE	MAHOGANY
6A	ACTIVE MEETING STILE (USED WITH REINFORCEMENT)	MAHOGANY
6B	ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)	MAHOGANY
7A	INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
7B	INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
8A	INACTIVE MEETING STILE (USED WITH KFY LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
8B	INACTIVE MEETING STILE (USED WITH KFY LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
9	FIXED ASTRAGAL	MAHOGANY
10	MID-RAIL	MAHOGANY
11	ONE-PIECE MULLION	MAHOGANY
12	FIXED ASTRAGAL MULLION BAR COVER	MAHOGANY
13	ASTRAGAL	MAHOGANY
14	ONE-PIECE MULLION BAR COVER	MAHOGANY
15	GLAZING BEAD	MAHOGANY
18	SPACER BLOCK	MAHOGANY
19	SPACER BLOCK	MAHOGANY
20	SPACER BLOCK (USED WITH KFY MULTI-POINT LOCK SYSTEM)	MAHOGANY
21	SUB-SILL	MAHOGANY
22	SUB-SILL	MAHOGANY
23	ADA SUB-SILL	MAHOGANY
24	STANDARD SILL	BRONZE
25	OPTIONAL SILL	BRONZE
26	OPTIONAL ADA SILL	BRONZE
27	CONTINUOUS SILL STRIKE/COVER	BRONZE
28	VERTICAL FIXED ASTRAGAL REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
29	VERTICAL MULLION REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
30	TRANSOM MULLION REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
31	MEETING STILE REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
32	INSTALLATION CLIP	GALVANIZED 40.6 KSI STEEL
33	ANGLE CLIP	6061-T6 ALUMINUM
34	BTI BRACKET	GALVANIZED 42.6 KSI STEEL
	HARDWARE	
38	BUTT HINGE	BY: GENIATEC GMBH
39	MULTI-POINT LOCK SYSTEM	BY: KFY: STRAIGHT SHOOT
40	MULTI-POINT LOCK SYSTEM	BY: SIEGENIA AUBI KG TYPE: MUSHROOM
41	HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
SEALS & SEALANTS		
45	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
46	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
47	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
48	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
49	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: WEGNER
FASTENERS		
52	0.06" X 1.26" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.
53	0.16" X 1.57" WOOD SCREW	2 PER HINGE INTO STILE
54	0.16" X 1.18" WOOD SCREW	3 PER HINGE INTO JAMB
55	0.16" X 1 1/4" MACHINE SCREW	3 PER HINGE
56	0.16" THREADED INSERT	3 PER HINGE
57	0.30" X 4.72" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
59	NO. 14 X 4" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
60	0.18" X 2" WOOD SCREW	WITHIN 6" OF ENDS & 18" MAX. O.C.
61	0.136" X 1.26" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
62	0.136" X 1.50" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
63	0.11" X 0.87" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
64	0.24" X 3.15" WOOD SCREW	WITHIN 8" OF ENDS & 18" 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.

[illegible]

DRAWING NO. 1616 SHEET NO. 17 OF 17	<u>CERTIFICATION</u> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	<u>DRAWING TITLE</u> OUT-SWING IMPACT WOOD PANEL DOORS
	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 06901 203-674-0600