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.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/SILL/CLIP/BRACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME/SILL 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 SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	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. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	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"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	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)

PANEL WIDTH	QUANTITY PER PANEL
RECTANGULAR PANEL	
ALL WIDTHS	2
ARCH & ROUND TOP PANEL	
OVER 32"	3
28" TO 32"	2

(1) LOCK STRIKE REQUIREMENTS (BOTTOM OF PANEL)

PANEL WIDTH	QUANTITY PER PANEL
ALL PANEL SHAPES	
ALL WIDTHS	2

(1) WHEN ADA SILL IS USED WITH DOUBLE DOORS, ONLY THE KFV LOCK SYSTEM MAY BE USED. WHEN ADA SILL IS USED WITH A SINGLE DOOR, BOTH THE KFV & SIEGENIA LOCK SYSTEMS APPLY BUT DO NOT REQUIRE SILL STRIKES.

LOCK STRIKE REQUIREMENTS (LOCK SIDE OF PANEL)

(1) PANEL HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
OVER 96"	4
76" TO 96"	3

(1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS

(1) LOCK STRIKE REQUIREMENTS (HINGE SIDE OF TILT-TURN DOORS)

(2) PANEL HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
ALL HEIGHTS	3

(1) WHEN DOOR IS TILT-TURN, ONLY 2 HINGES ARE USED COMBINED WITH LOCK POINTS. WHEN DOOR IS SWING ONLY, ONLY HINGES EXIST.
(2) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS

PANEL WIDTH DIMENSIONS ARE APPROXIMATELY 3" LESS THAN THE FRAME WIDTH & PANEL HEIGHT DIMENSIONS ARE APPROXIMATELY 1 3/4 LESS THAN THE FRAME HEIGHT

HINGE REQUIREMENTS

(1) PANEL HEIGHT	QUANTITY PER PANEL
POT HINGES	
OVER 99"	5
76" TO 99"	4
SCREWED-IN HINGES	
OVER 99"	5
76" TO 99"	4

(1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS

HINGE REQUIREMENTS (TILT-TURN DOORS)

2 PER DOOR
(ALL SIZES OF ALL DOORS)

ALLOWABLE DESIGN PRESSURE (SINGLE & DOUBLE OPERABLE DOORS)

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
SINGLE DOOR			
51 1/8	120	(2) 70	(2) 70
41 1/4	99	70	(1) 85
DOUBLE DOOR			
79 1/16	120	70	70
79 1/16	99	70	(1) (3) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED & WITH STANDARD SILL (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).
(2) WITH FULL SIZE SINGLE DOORS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-65 PSF. PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 38.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 98".
(3) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH DOUBLE DOORS WHEN THE DOUBLE DOOR MEETING STILES ARE BAR REINFORCED (REF. SECTIONS).

CORNER CONSTRUCTION:

RECTANGULAR FRAME CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
ARCHED FRAME CORNERS: ARCHED FRAME BUTTED TO STRAIGHT FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
HALF ROUND FRAME CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
RECTANGULAR PANEL CORNERS:
OPTION 1 (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE 4.250" OR LESS IN OVERALL HEIGHT): MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
OPTION 2 (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE GREATER THAN 4.250" IN OVERALL HEIGHT): MEMBERS ARE SQUARE CUT, BUTTED, JOINED WITH FIVE(5) ø5/16 X 2" WOOD DOWELS, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
ARCHED PANEL CORNERS: ARCHED RAIL BUTTED TO STRAIGHT STILE, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
HALF ROUND PANEL CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
SILL CORNERS:
ALL SILL CONDITIONS: SILL IS BUTTED TO THE JAMBS & JOINED WITH THREE(3) NO.6 X 2" WOOD SCREWS & SEALED WITH SEALANT.

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.

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Warren W Schaefer
Date: 2023.02.27 16:23:28 -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.

DRAWN BY: W.R.M. | CHECKED BY: W.W.S. | PLOT: 1=24 | DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO CURRENT STANDARDS	W.R.M.	10/25/11
B1	UPDATE TO CURRENT STANDARDS	W.W.S.	02/20/14
C1	UPDATE TO CURRENT STANDARDS	W.W.S.	05/15/18
D1	CHANGE TO FLORIDA APPROVAL	W.W.S.	02/27/23

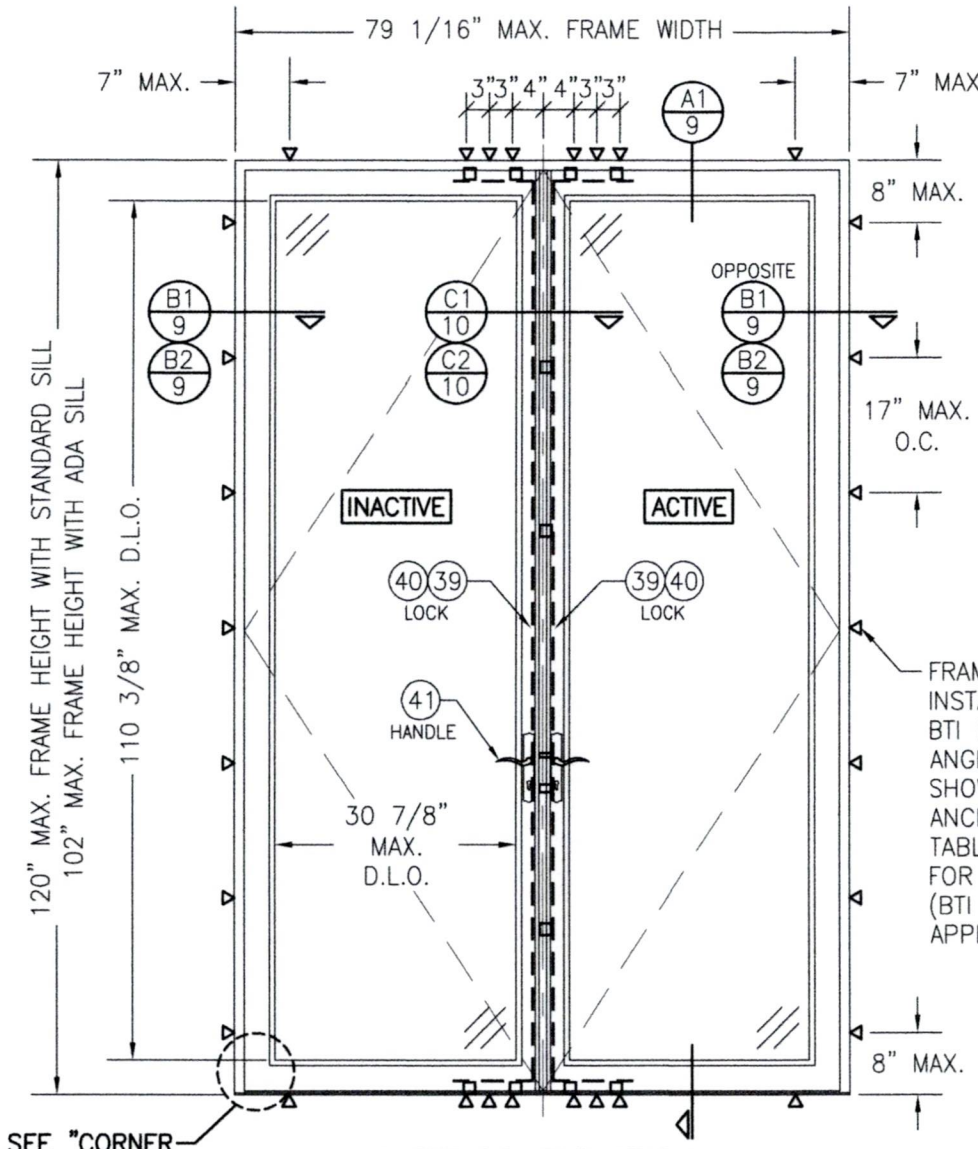
DRAWING TITLE: IN-SWING IMPACT WOOD DOORS

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

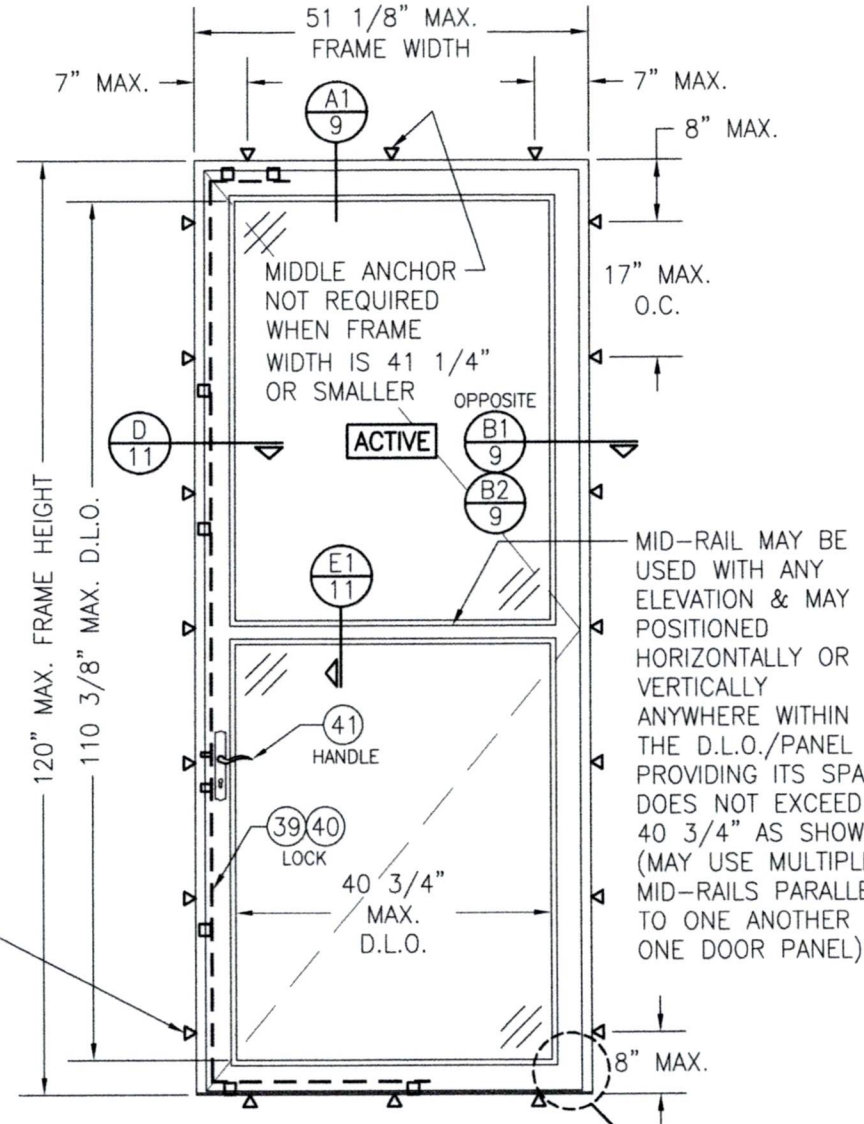
CERTIFICATION
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1601 | REV. D
SHEET NO. 1 OF 19



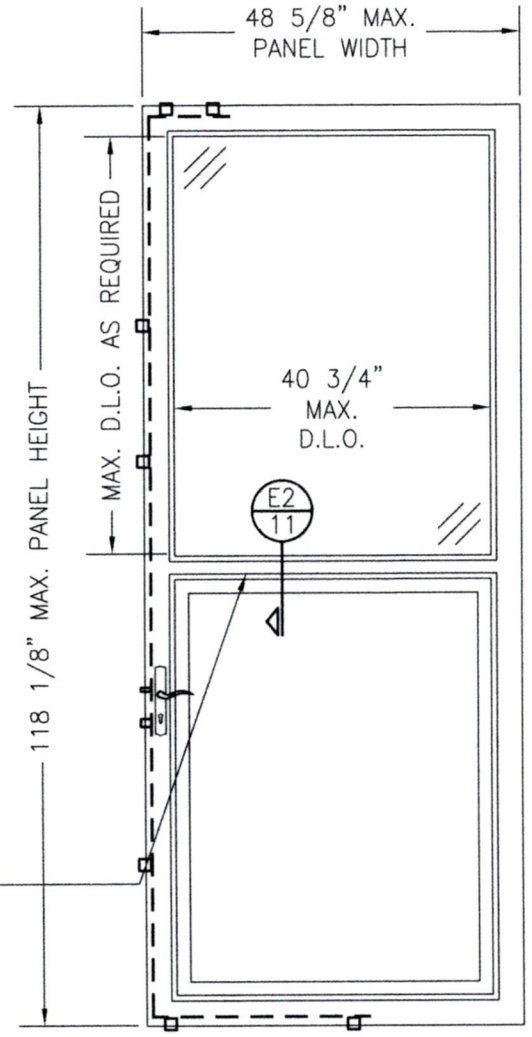
INTERIOR ELEVATION;
DOUBLE RECTANGULAR DOOR
(TURN ONLY CONDITION)

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



INTERIOR ELEVATION;
SINGLE RECTANGULAR DOOR
(TURN ONLY CONDITION)

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



INTERIOR ELEVATION;
PARTIAL RAISED PANEL

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

(SEE SINGLE DOOR ELEVATIONS FOR DOOR DETAIL AND INSTALLATION NOT SHOWN)

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

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

PANEL NOTES:

1. SINGLE RAISED PANEL CONDITION SHOWN, MORE THAN ONE RAISED PANEL MAY EXIST IN A SINGLE DOOR PANEL WHEN MULTIPLE MID-RAILS ARE USED.
2. PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.
3. THESE PANEL CONDITIONS APPLY WITH BOTH OPERABLE & FIXED PANEL DOORS
4. RECTANGULAR CONDITION SHOWN, SHAPED CONDITIONS ALSO APPLY.
5. BOTH TURN ONLY & TILT & TURN CONDITIONS APPLY.

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

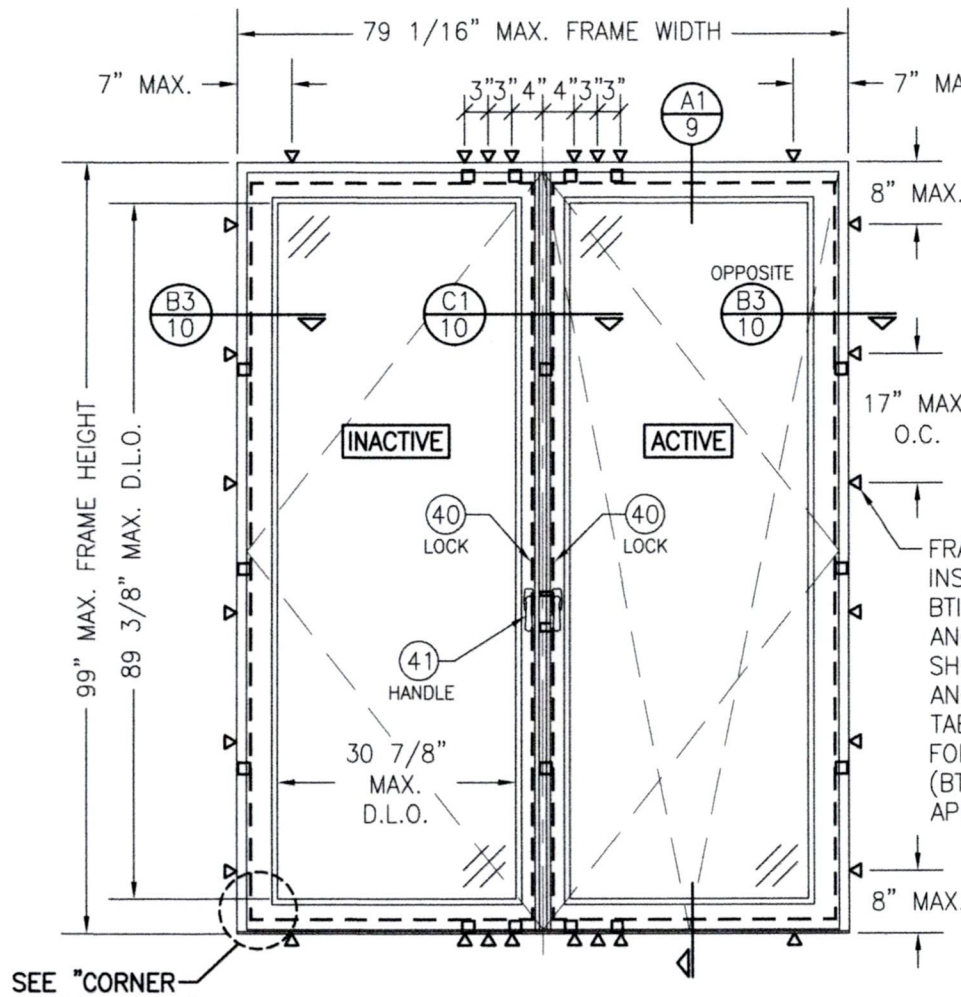
MANUFACTURER
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STAMFORD, CONNECTICUT 06901
203-674-0600

DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

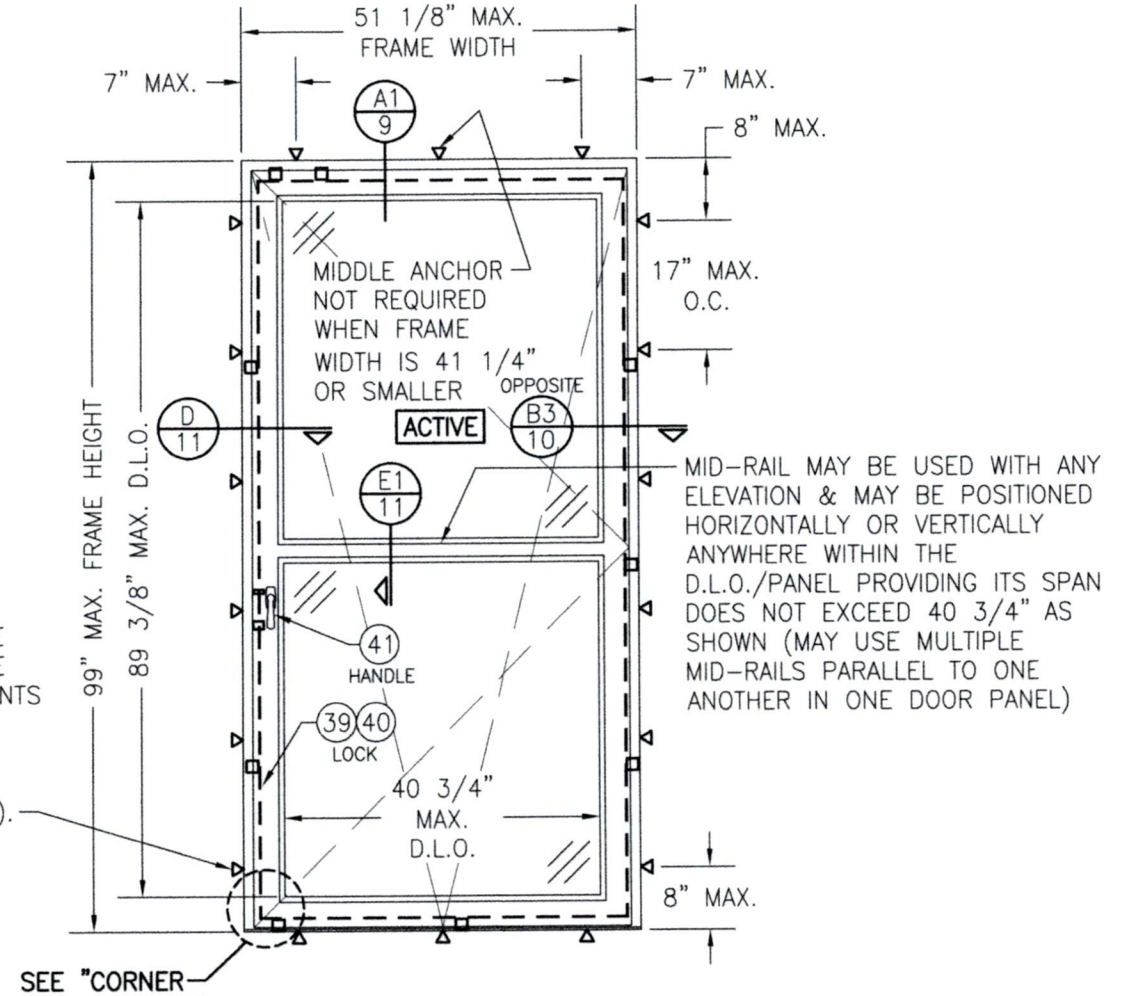
CONSULTANTS
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PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION
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P.E. NO. 44135

DRAWING NO. 1601 | REV. D
SHEET NO. 2 OF 19



INTERIOR ELEVATION;
DOUBLE RECTANGULAR DOOR
(TURN & TILT CONDITION)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION;
SINGLE RECTANGULAR DOOR
(TURN & TILT CONDITION)
SCALE: 1/2" = 1'-0"

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

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

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PLOT: 1=24	DATE: 10/08/08

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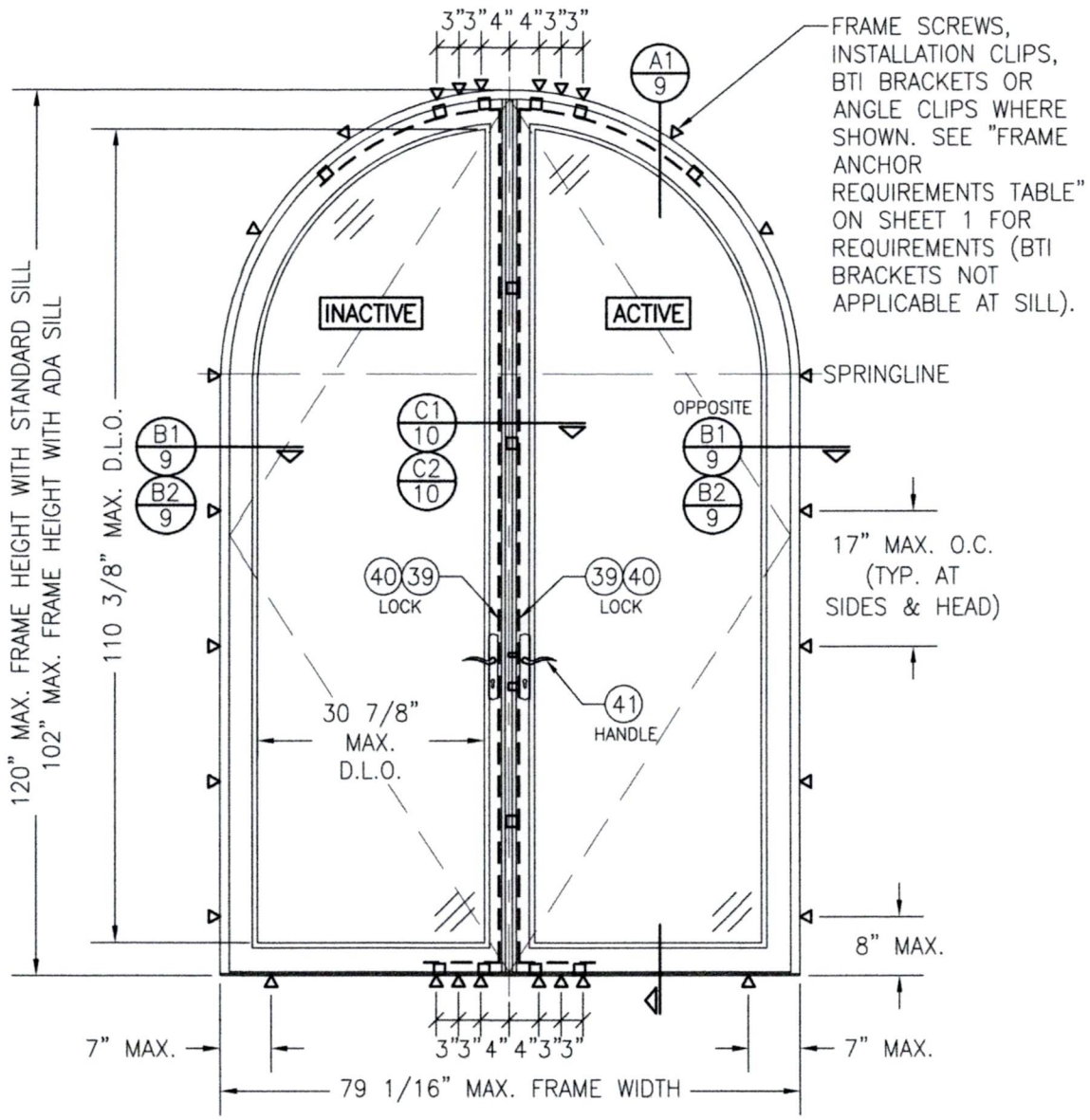
DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

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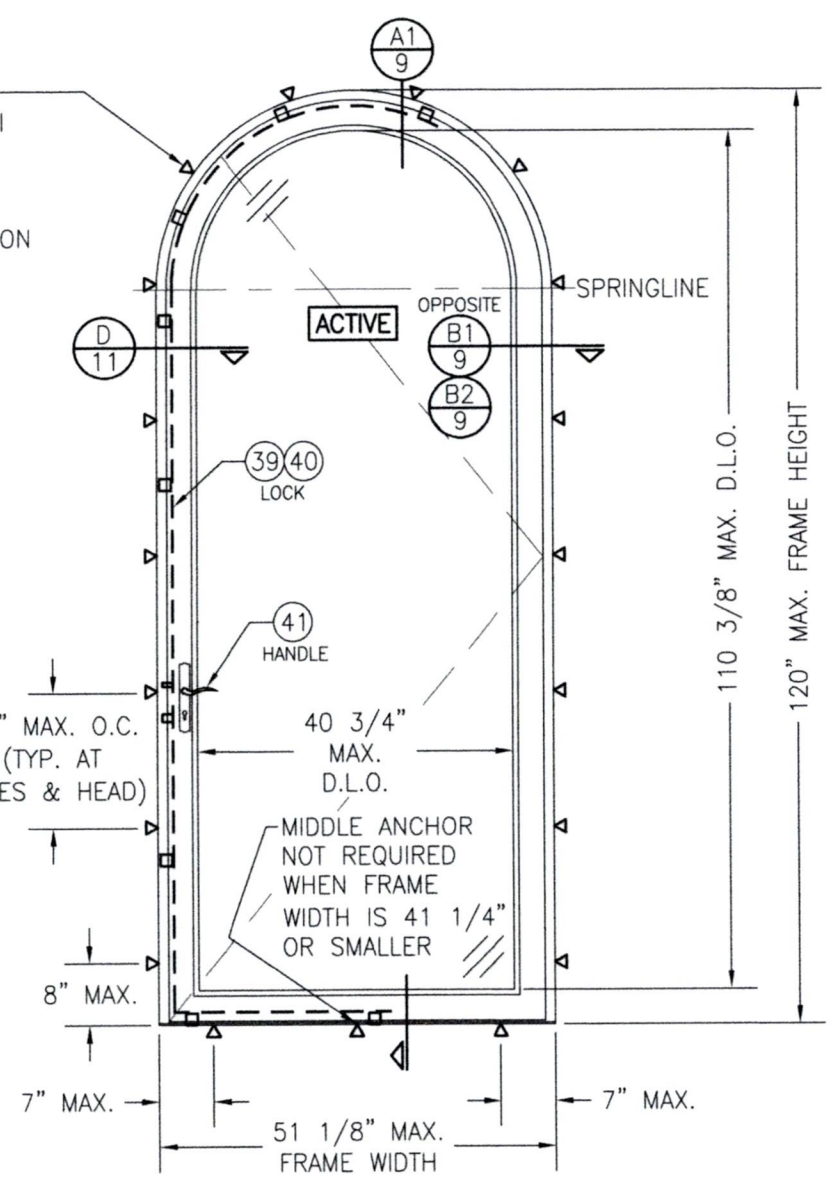
CERTIFICATION
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DRAWING NO.	REV.
1601	D

SHEET NO.
3 OF 19

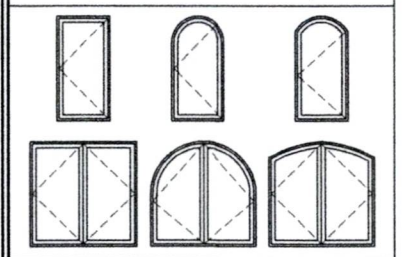


INTERIOR ELEVATION;
DOUBLE HALF ROUND DOOR
(TURN ONLY CONDITION)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION;
SINGLE HALF ROUND DOOR
(TURN ONLY CONDITION)
SCALE: 1/2" = 1'-0"

APPROVED SHAPED
(OPERABLE DOORS)



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.

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

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

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

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

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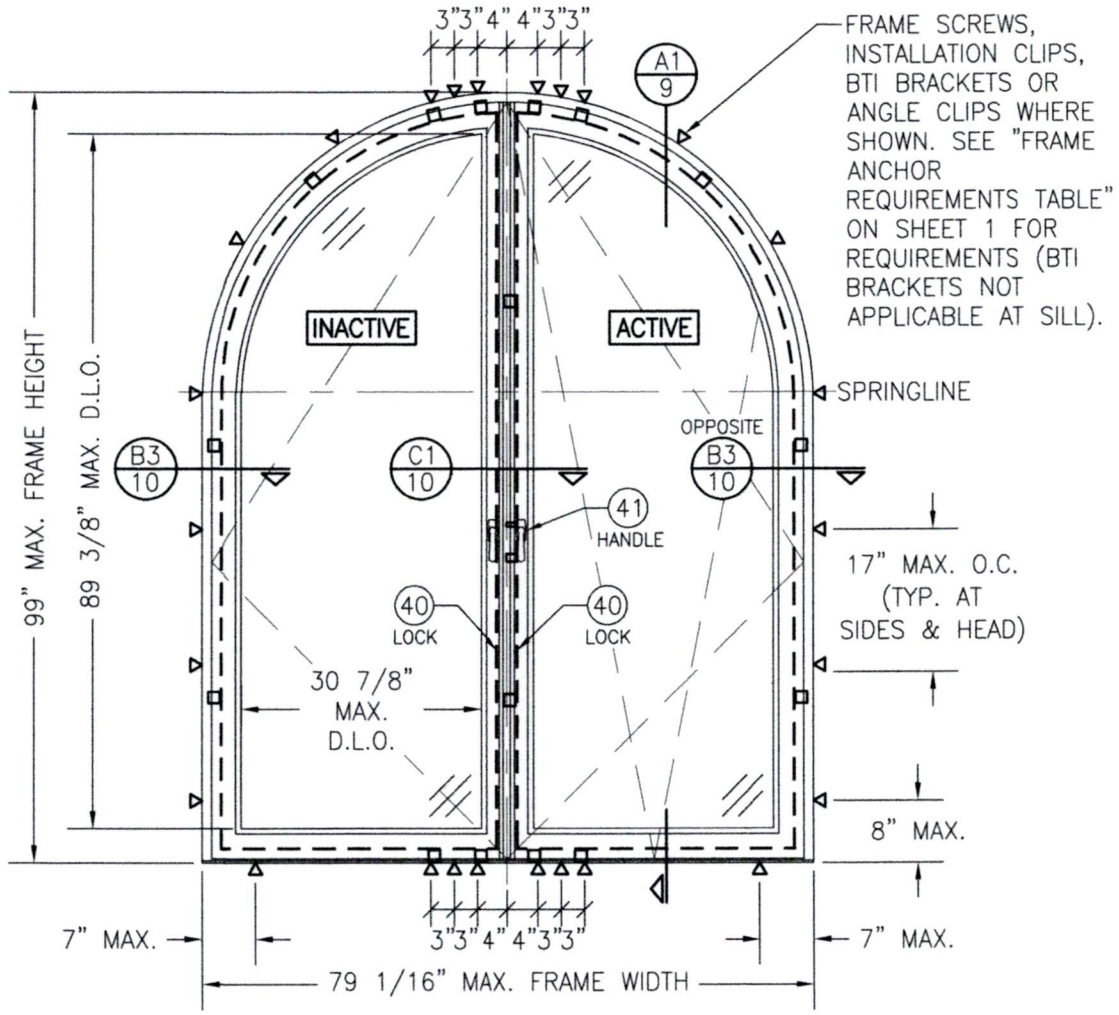
DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

CERTIFICATION

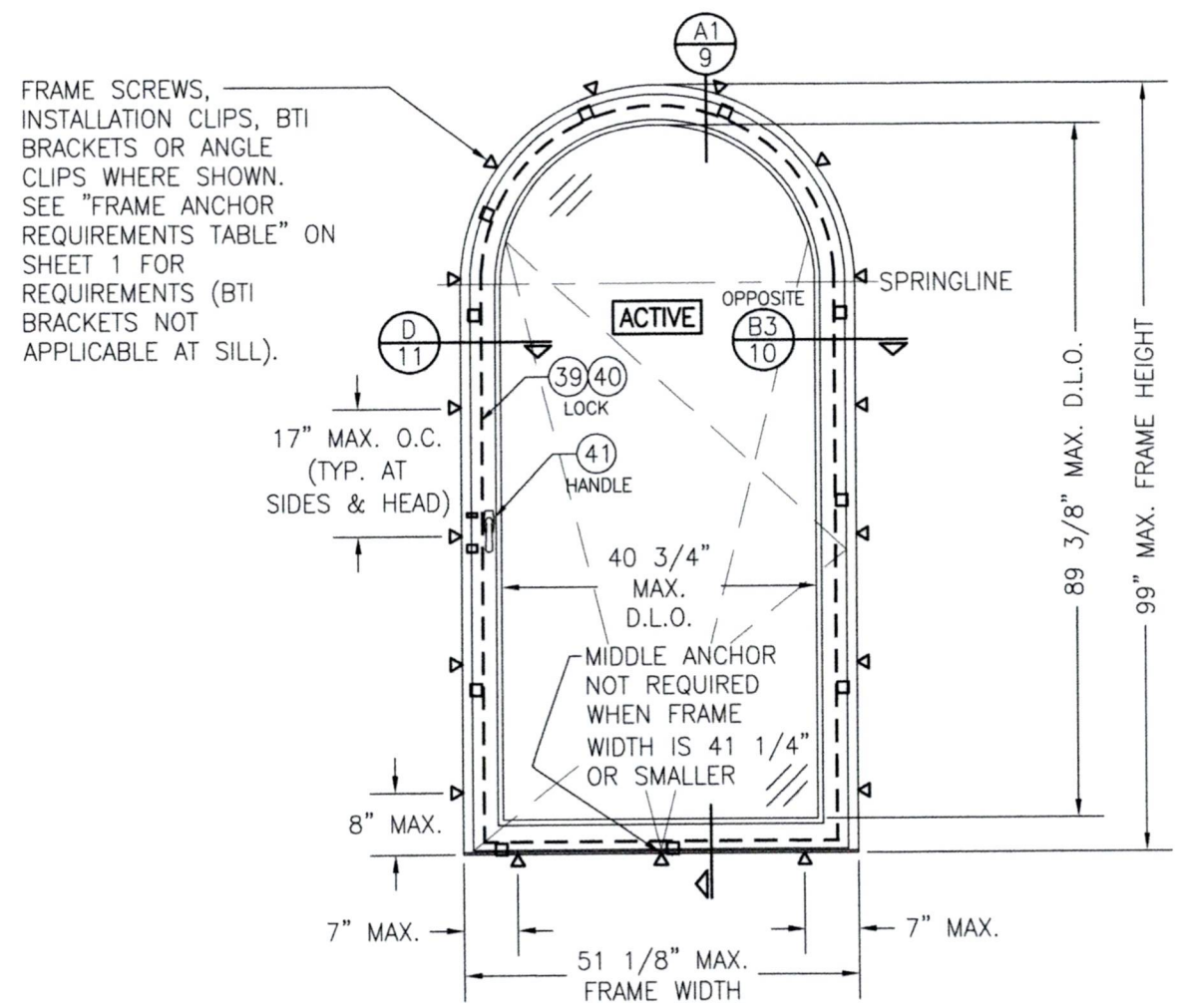
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P.E. NO. 44135

DRAWING NO.	REV.
1601	D

SHEET NO.
4 OF 19

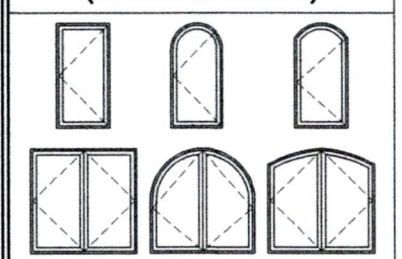


INTERIOR ELEVATION;
DOUBLE HALF ROUND DOOR
(TURN & TILT CONDITION)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION;
SINGLE HALF ROUND DOOR
(TURN & TILT CONDITION)
SCALE: 1/2" = 1'-0"

APPROVED SHAPED
(OPERABLE DOORS)



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.

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

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

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

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 10/08/08

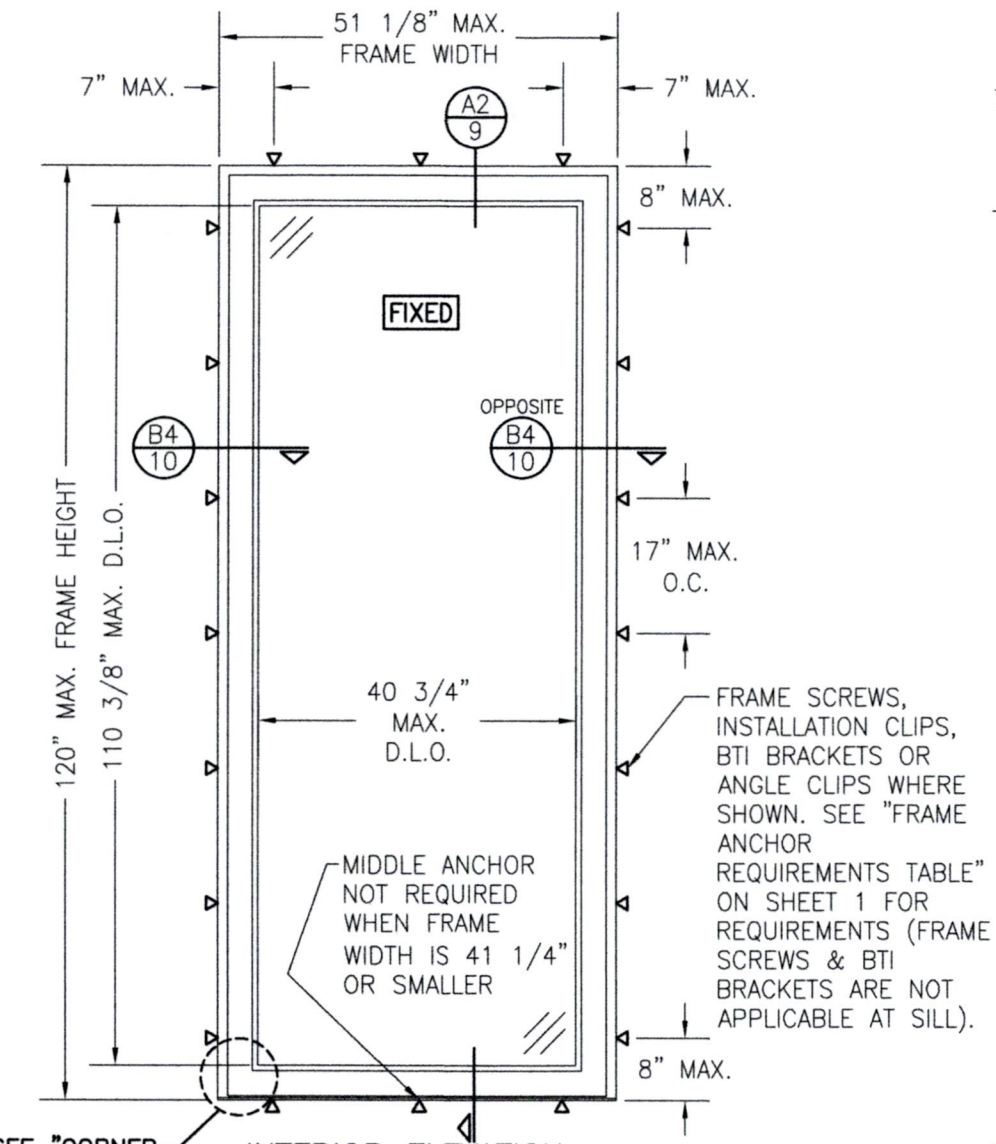
MANUFACTURER
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DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

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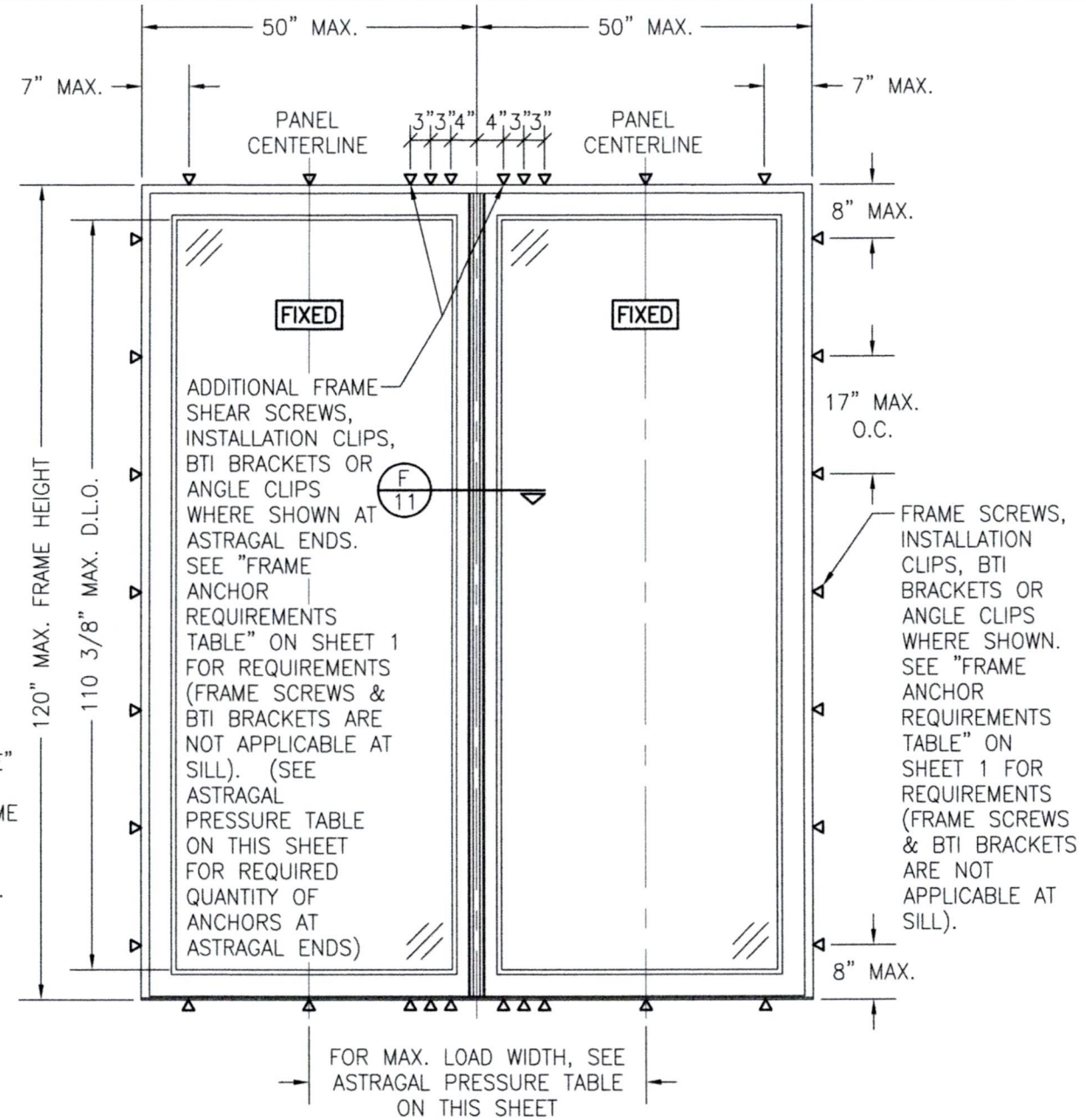
DRAWING NO. 1601 | REV. D
SHEET NO. 5 OF 19



INTERIOR ELEVATION; SINGLE FIXED PANEL

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

(RECTANGULAR FIXED DOOR SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)



INTERIOR ELEVATION; DOUBLE FIXED PANEL WITH FIXED ASTRAGAL

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

SEE SINGLE FIXED PANEL ELEVATION FOR DETAIL NOT SHOWN

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.
120	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
	32	70.0	70.0	70.0	70.0
	28	70.0	70.0	70.0	70.0
108	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
	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
99	50	62.3	62.3	70.0	85.0
	48	64.9	64.9	70.0	85.0
	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
96	50	64.2	64.2	70.0	85.0
	48	66.9	66.9	70.0	85.0
	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
84	50	70.0	73.4	70.0	85.0
	48	70.0	76.5	70.0	85.0
	44	70.0	83.4	70.0	85.0
	43	70.0	85.0	70.0	85.0
80	50	70.0	77.1	70.0	85.0
	48	70.0	80.3	70.0	85.0
	45	70.0	85.0	70.0	85.0

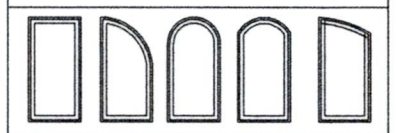
NOTES:
1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL FIXED PANEL.
3. SIZE VALUES IN TABLE ARE +/-1/4"

ALLOWABLE DESIGN PRESSURE (SINGLE FIXED PANELS)

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	120	(2) 70	(2) 70
51 11/16	99	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED.
(2) WITH FULL SIZE FIXED DOORS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-65 PSF. PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 38.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 98".

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.)

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: IN-SWING IMPACT WOOD DOORS

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

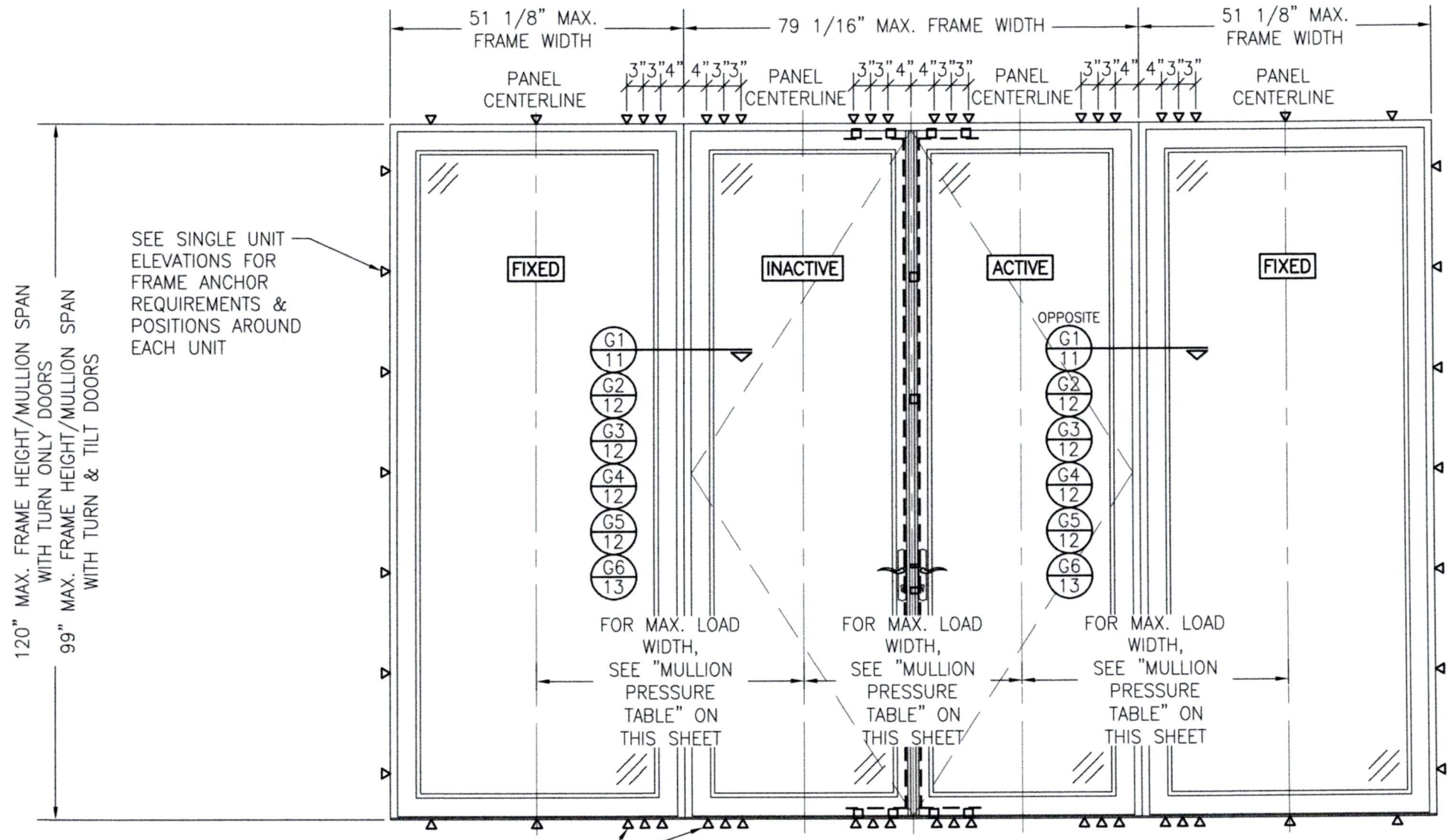
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

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

DRAWING NO. 1601 | REV. D

SHEET NO. 6 OF 19



INTERIOR ELEVATION; DOUBLE DOORS WITH FIXED PANELS

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

(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPED" TABLE ON SHEETS 4 & 5)

MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE DOORS & THEIR MULLIONS.
3. OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR/FIXED PANEL SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATIONS.
5. BOTH TURN ONLY & TILT & TURN CONDITIONS APPLY.

MULLION ALLOWABLE DESIGN PRESSURE

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
120	52	53.8	53.8
	48	58.3	58.3
	44	63.6	63.6
	40	70.0	70.0
	36	70.0	70.0
	32	70.0	70.0
108	52	59.8	59.8
	48	64.8	64.8
	44	70.0	70.0
	40	70.0	70.0
	36	70.0	70.0
99	52	70.0	75.2
	48	70.0	81.5
	46	70.0	85.0
96	52	70.0	77.5
	48	70.0	84.0
	44	70.0	85.0
84	52	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 DOOR/FIXED PANEL.
3. SIZE VALUES IN TABLE ARE +/-1/4"

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: IN-SWING IMPACT WOOD DOORS

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

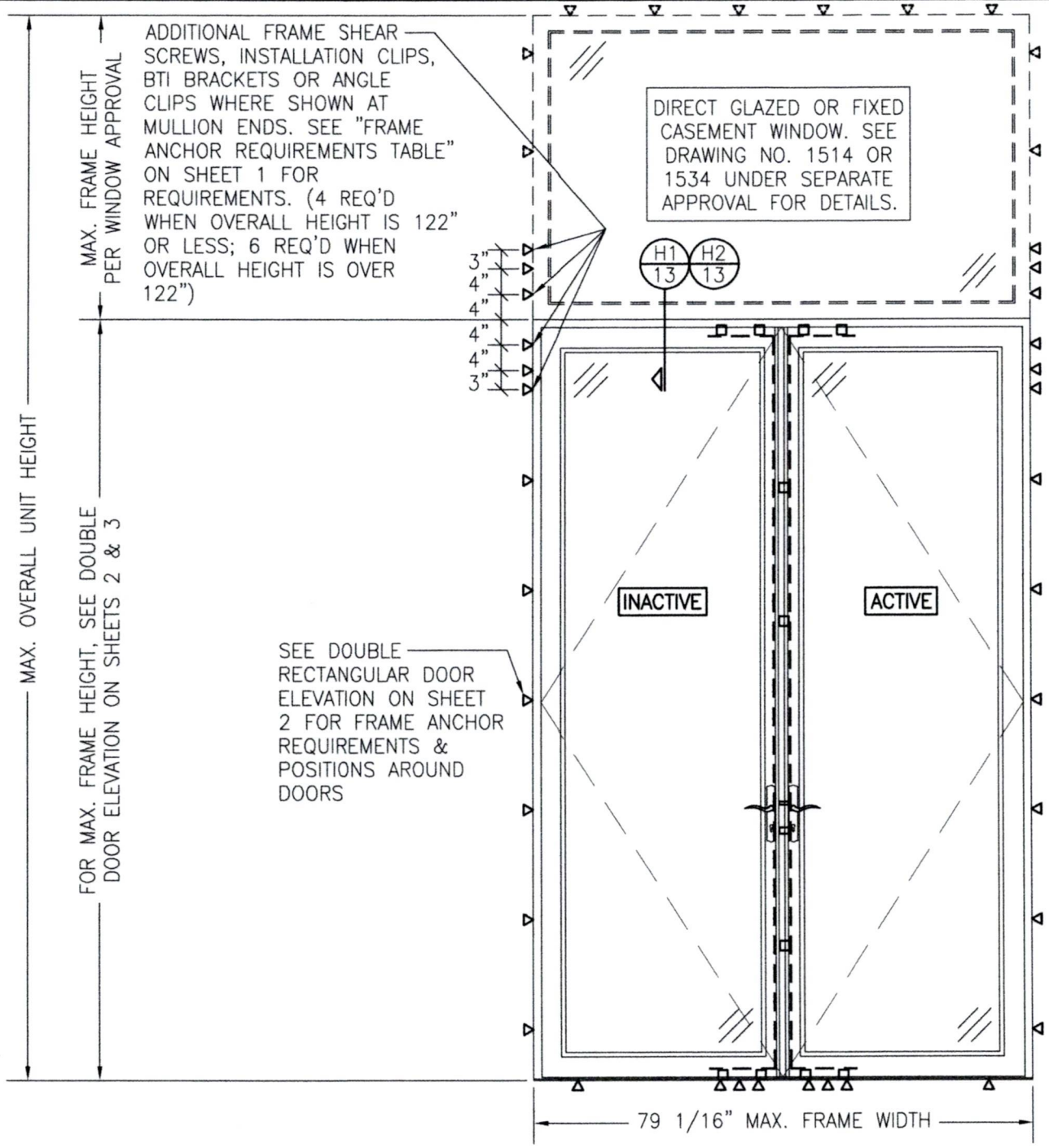
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

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

DRAWING NO. 1601 | REV. D

SHEET NO. 7 OF 19



INTERIOR ELEVATION; DOUBLE DOORS WITH TRANSOM

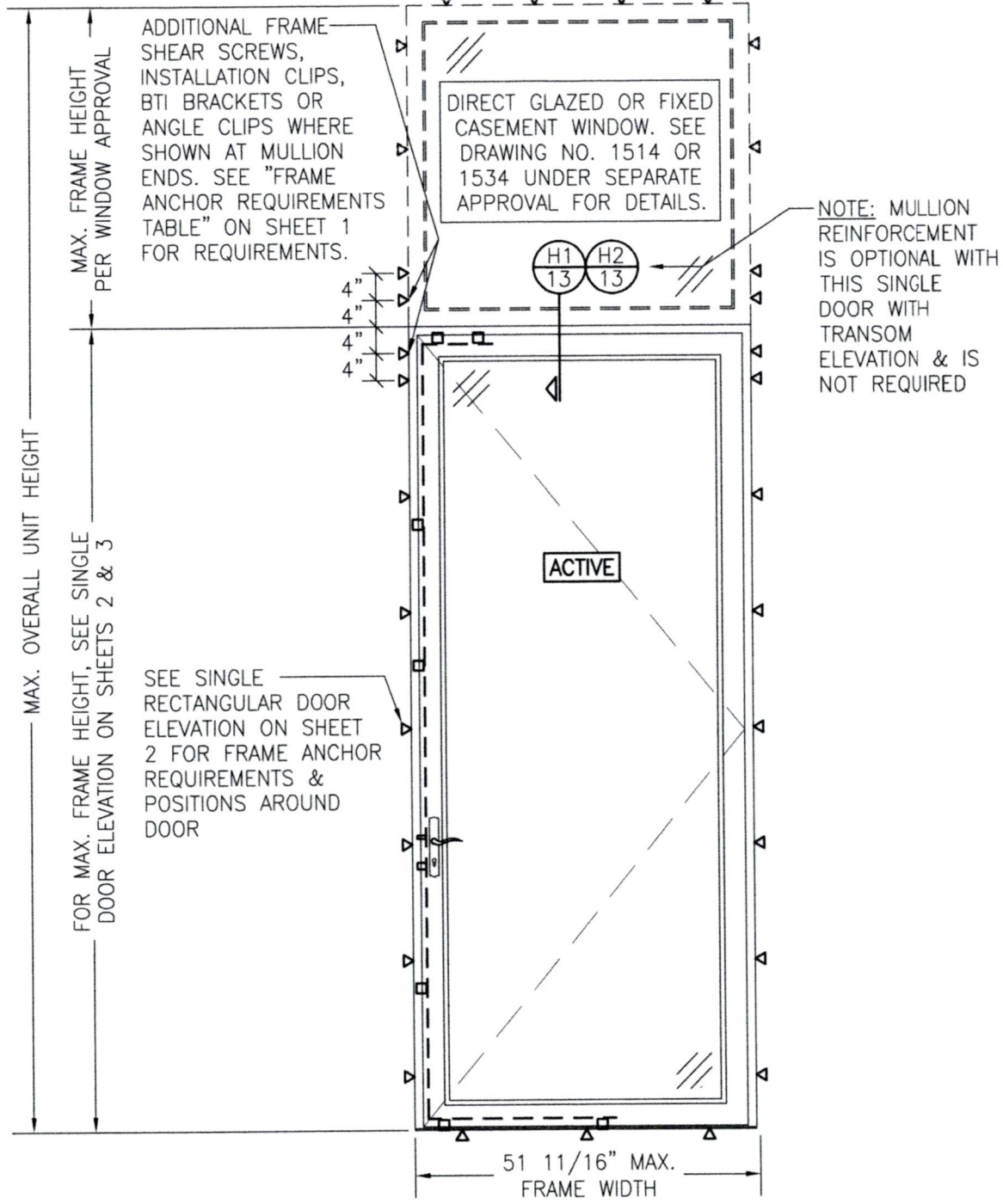
SCALE: 1/2" = 1'-0"

(SEE DOUBLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 2 & 3 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE
(DOUBLE DOOR TRANSOM UNIT)

MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(2) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
79 1/16	168	70	70
79 1/16	138	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED.
(2) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.



INTERIOR ELEVATION; SINGLE DOOR WITH TRANSOM

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

(SEE SINGLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 2 & 3 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE
(SINGLE DOOR TRANSOM UNIT)

MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(2) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	168	70	70
41 1/4	168	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED.
(2) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

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

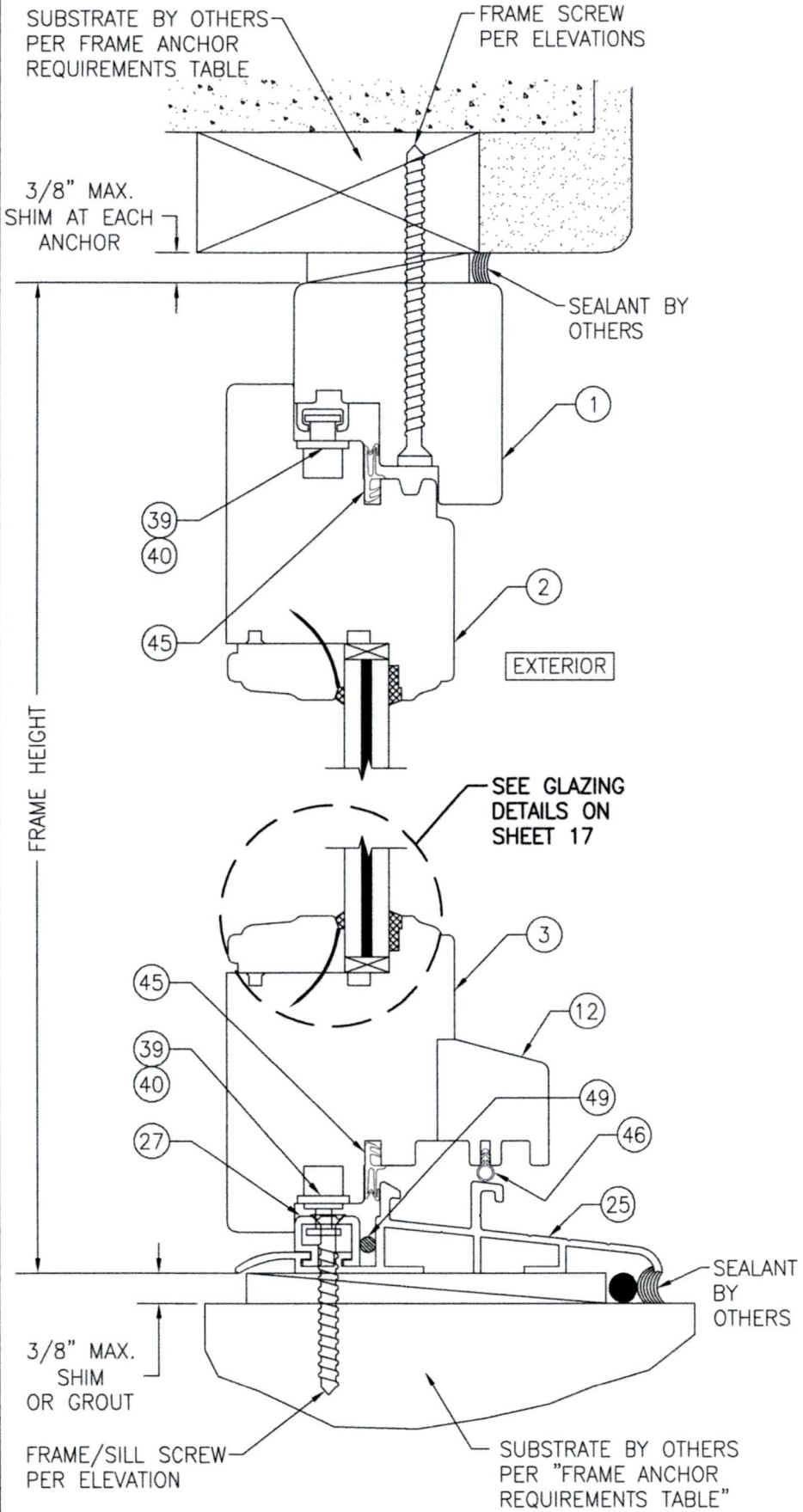
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

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

DRAWING NO. 1601 | REV. D

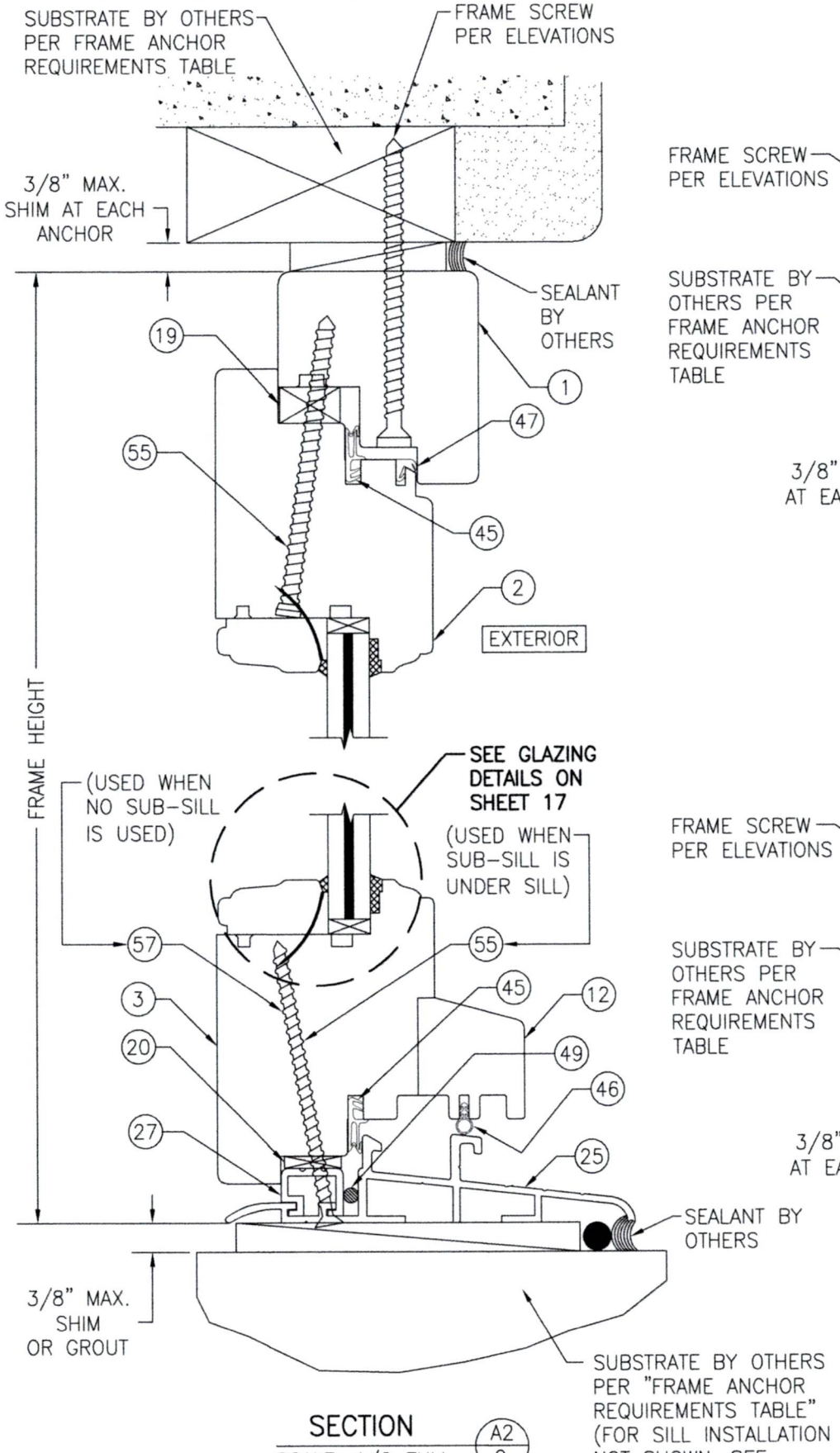
SHEET NO. 8 OF 19



SECTION A1 / 9

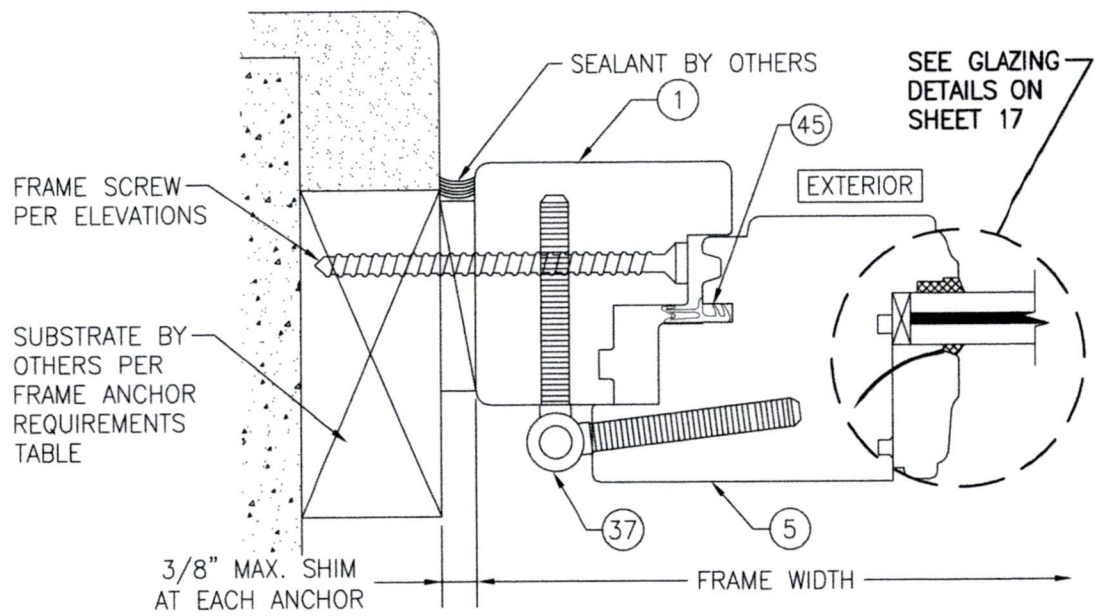
SCALE: 1/2 FULL

FRAME SCREW INSTALLATION & STANDARD SILL CONDITION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION & SILL CONDITIONS.



SECTION A2 / 9

SCALE: 1/2 FULL

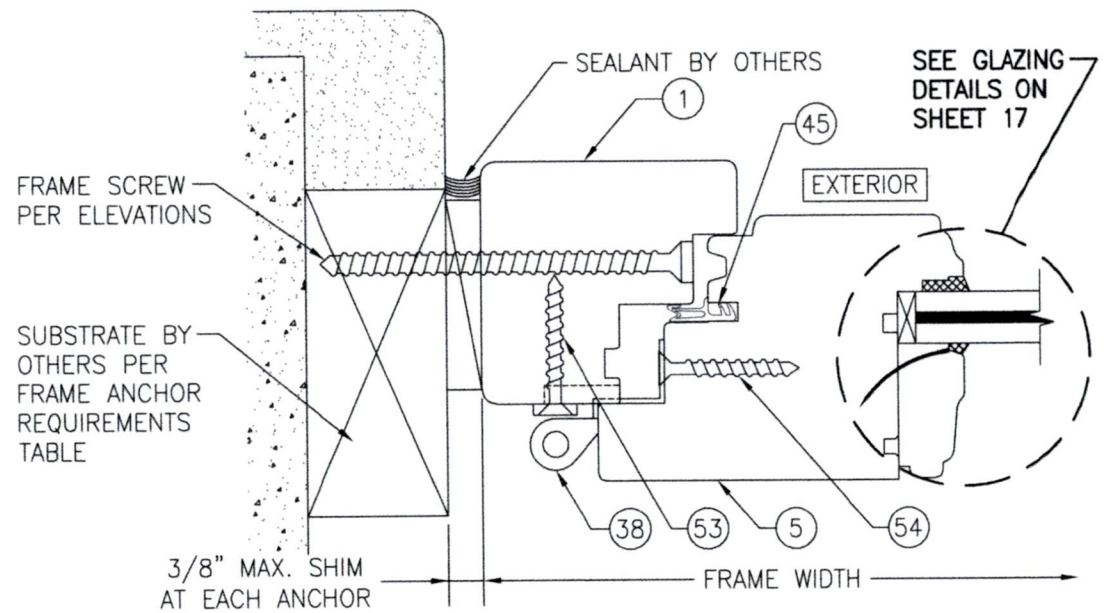


SECTION B1 / 9

SCALE: 1/2 FULL

(SCREWED IN HINGE CONDITION)

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



SECTION B2 / 9

SCALE: 1/2 FULL

(POT HINGE; TURN ONLY CONDITION)

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

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

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

DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

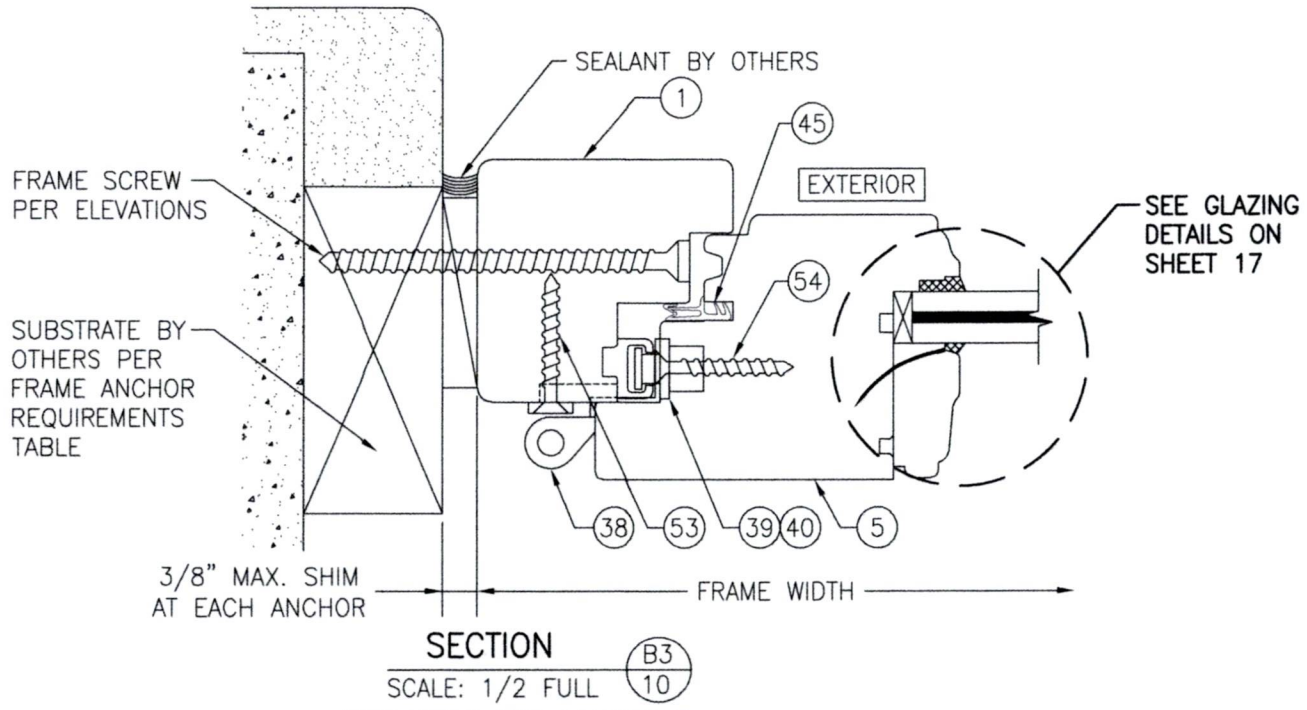
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL. 33983
PHONE: 561-744-3424

CERTIFICATION

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

DRAWING NO. 1601 | REV. D

SHEET NO. 9 OF 19

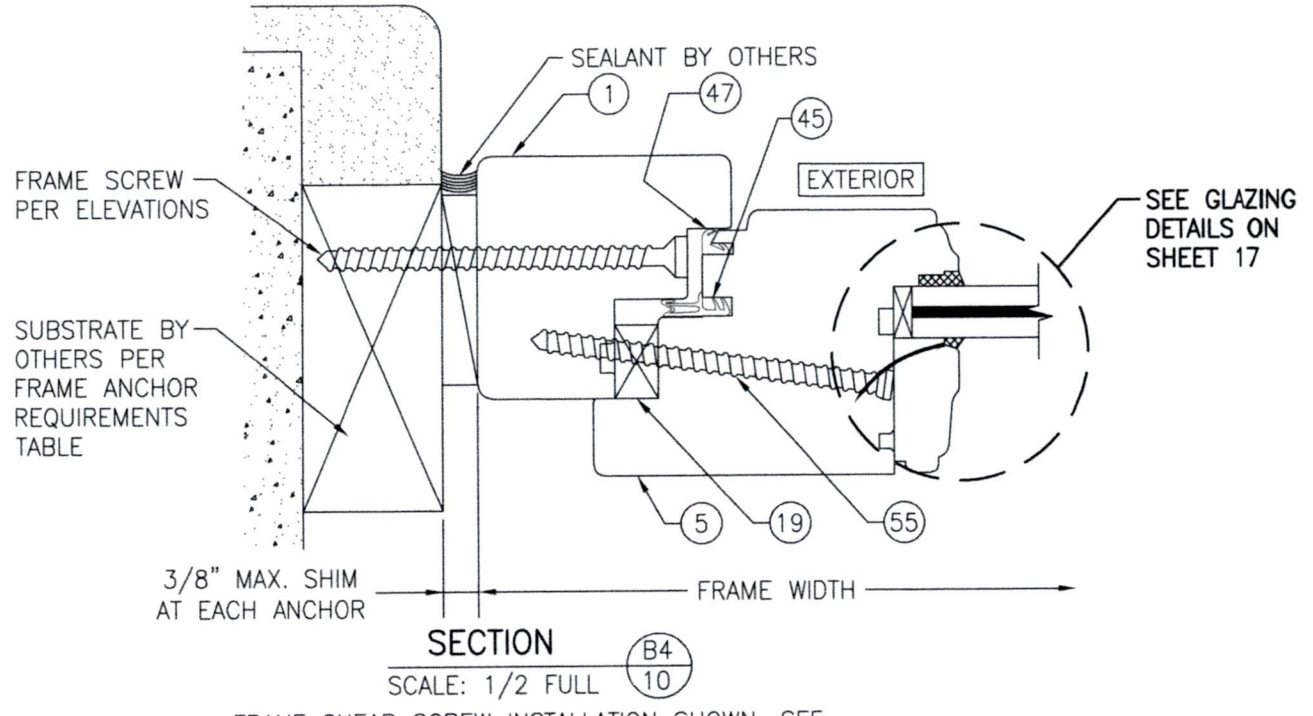


SECTION B3/10

SCALE: 1/2 FULL

(POT HINGE; TILT CONDITION)

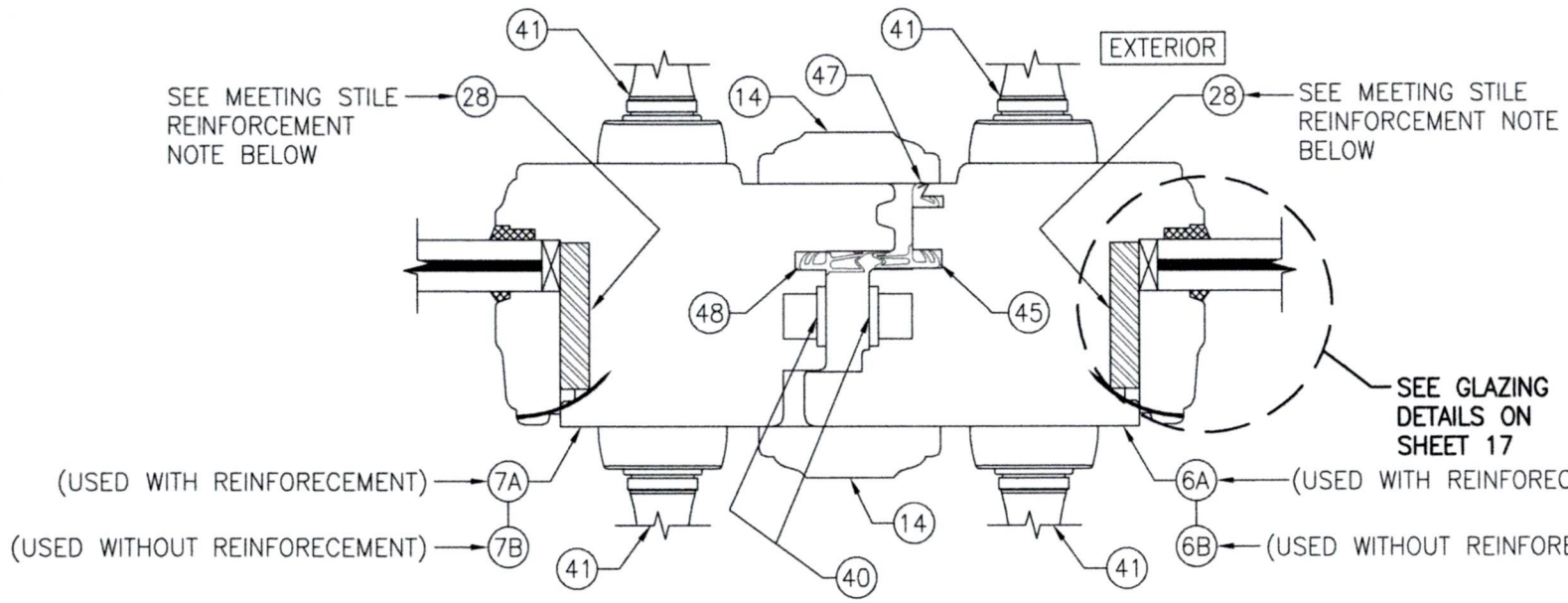
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION B4/10

SCALE: 1/2 FULL

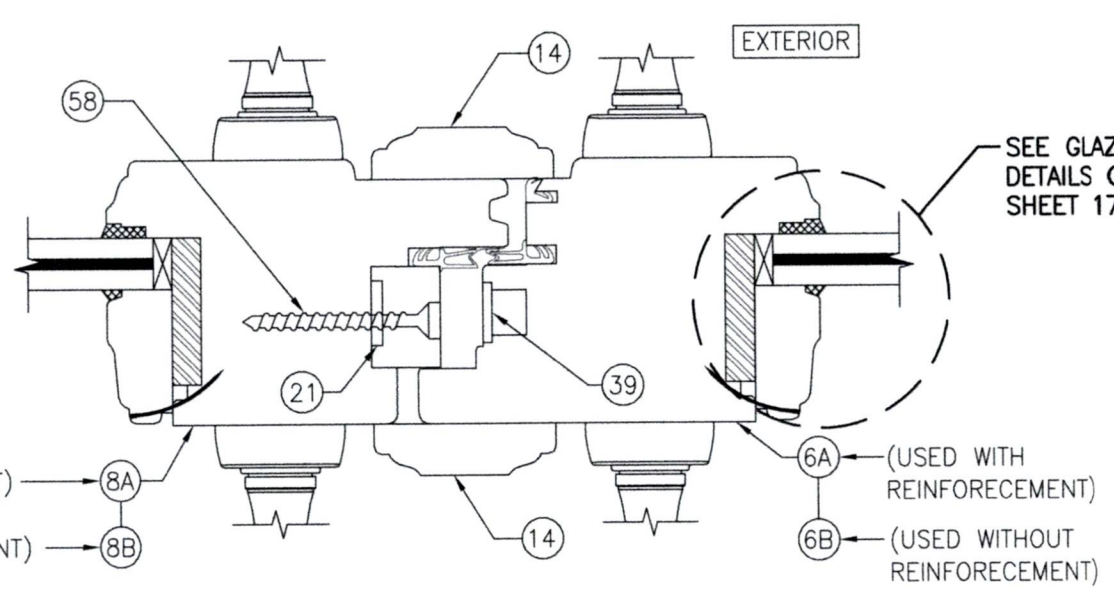
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION C1/10

SCALE: 1/2 FULL

MEETING STILE CONDITION WITH SIEGENIA MULTI-POINT LOCK SYSTEM



SECTION C2/10

SCALE: 1/2 FULL

MEETING STILE CONDITION WITH KFV MULTI-POINT LOCK SYSTEM
(FOR DETAIL NOT SHOWN, SEE SECTION C1/10)

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.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

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

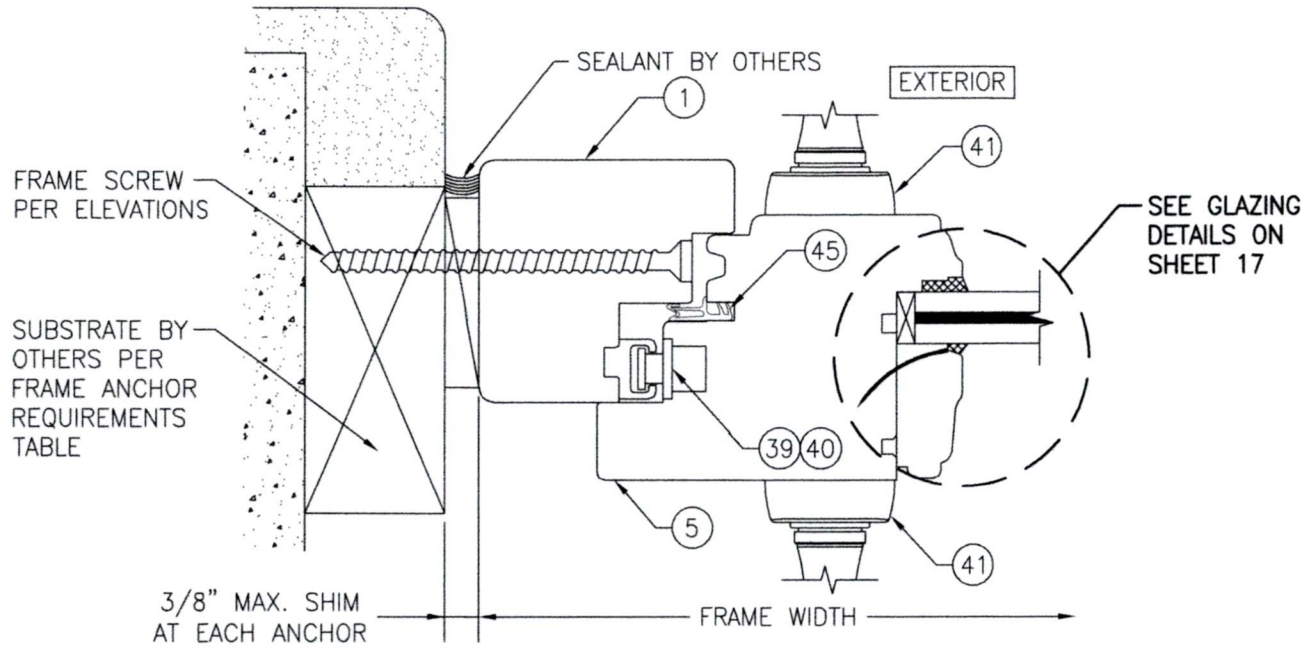
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

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

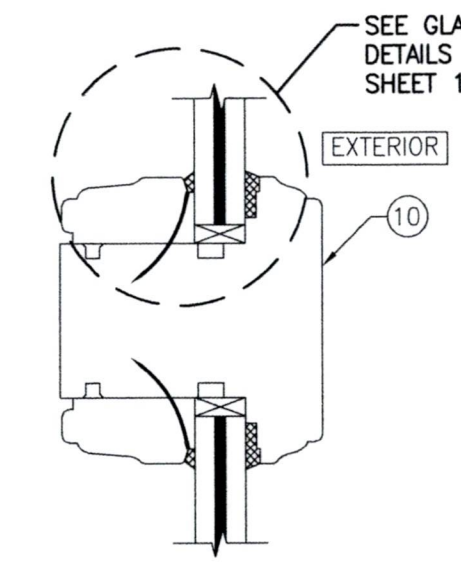
DRAWING NO. 1601 | REV. D

SHEET NO. 10 OF 19

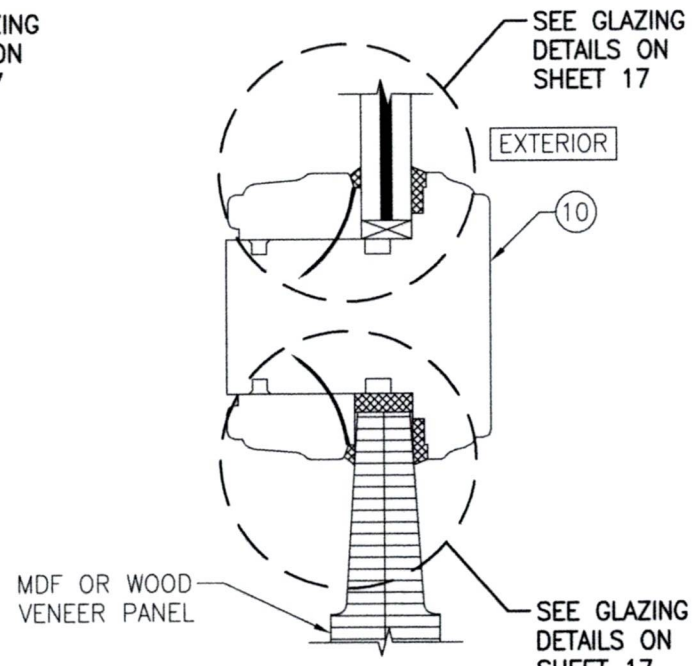


SECTION D / 11
SCALE: 1/2 FULL

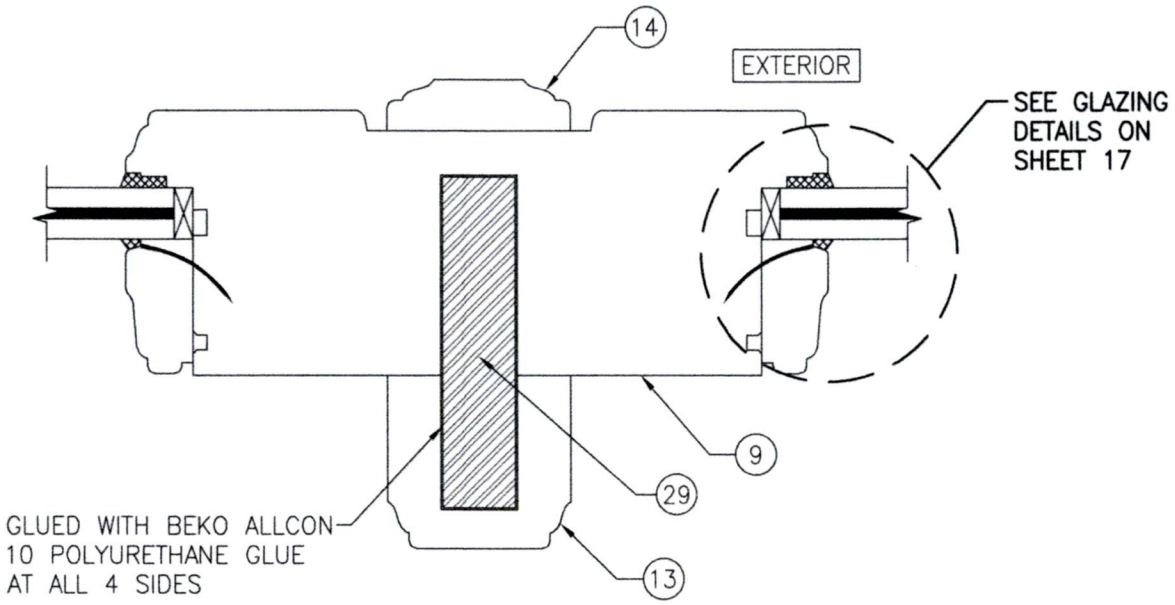
FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



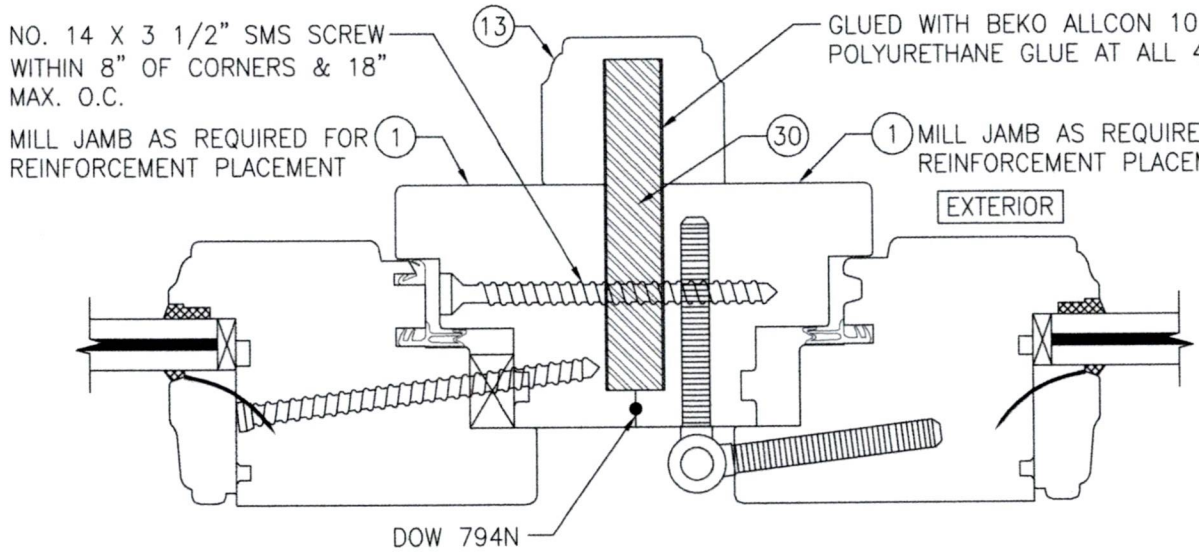
SECTION E1 / 11
SCALE: 1/2 FULL



SECTION E2 / 11
SCALE: 1/2 FULL



SECTION F / 11
SCALE: 1/2 FULL



SECTION G1 / 11
SCALE: 1/2 FULL

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

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

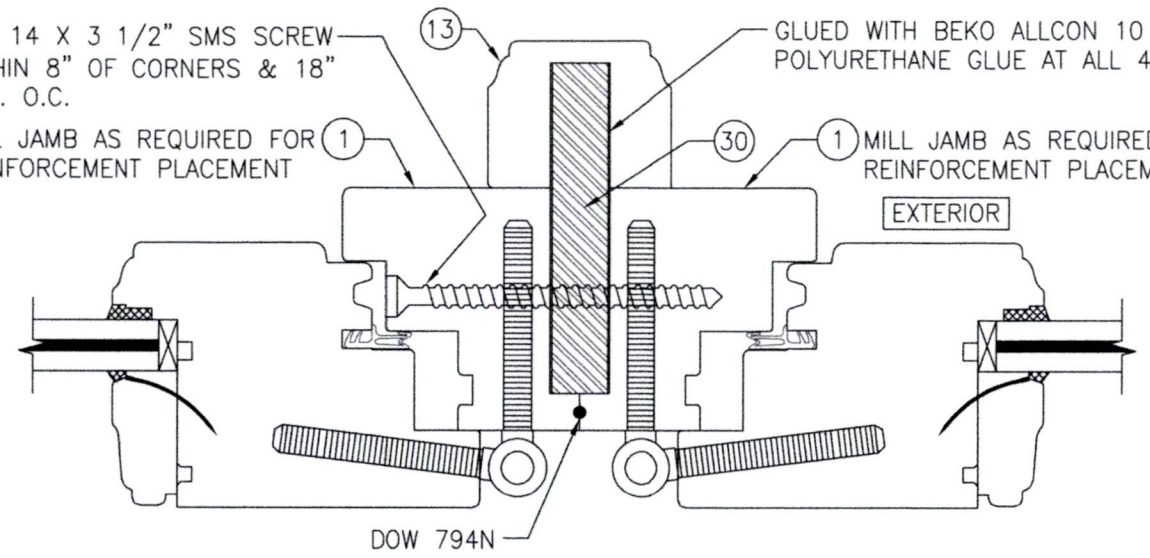
DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

CERTIFICATION

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

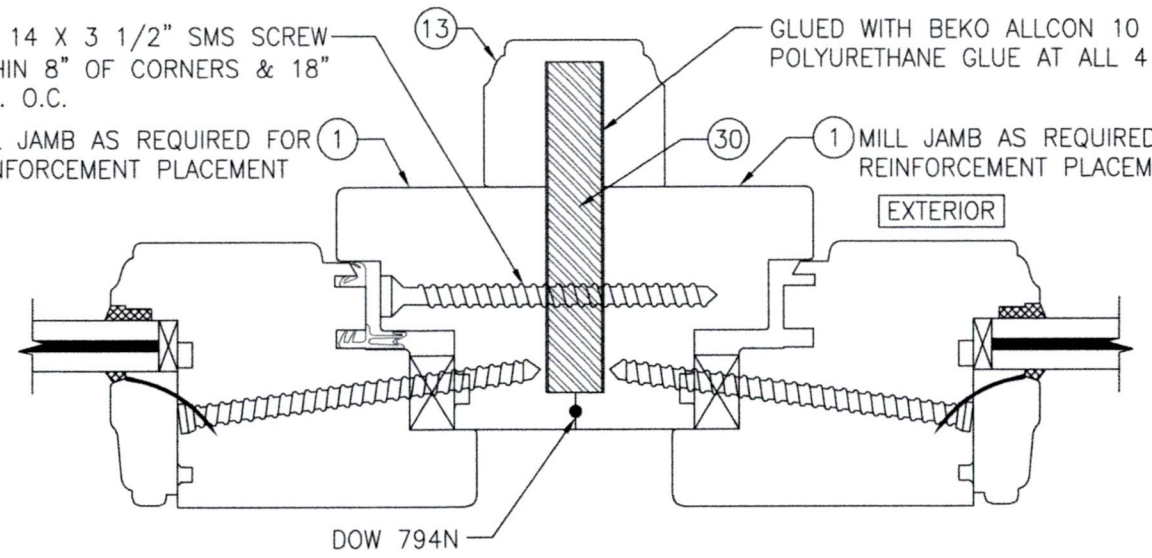
DRAWING NO. 1601 | REV. D

SHEET NO. 11 OF 19



SECTION G2/12
SCALE: 1/2 FULL

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION G3/12
SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

SECTION G4/12
SCALE: 1/2 FULL

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

SECTION G5/12
SCALE: 1/2 FULL

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

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

DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

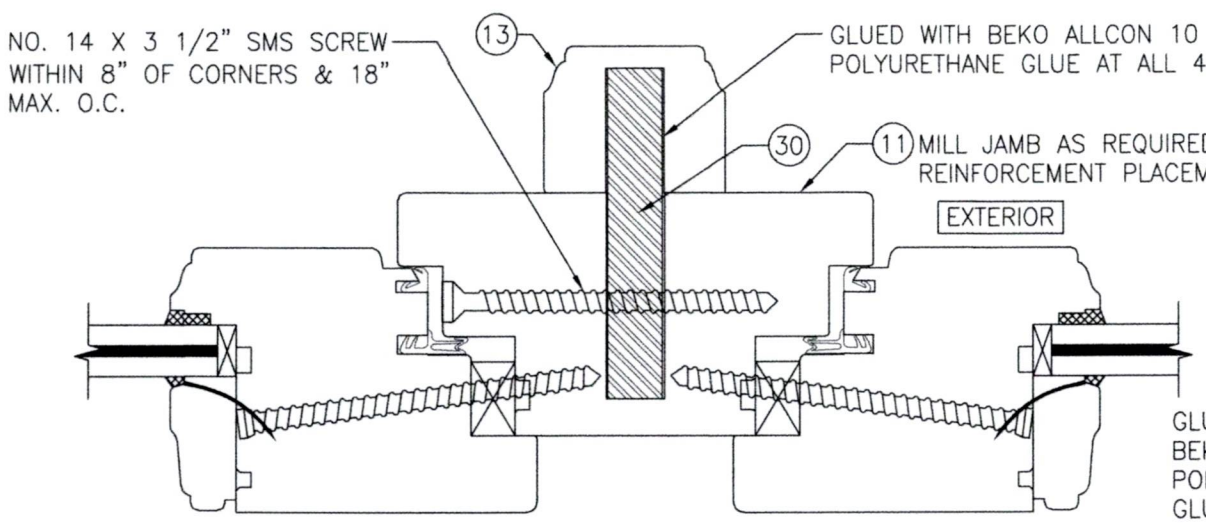
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26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

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

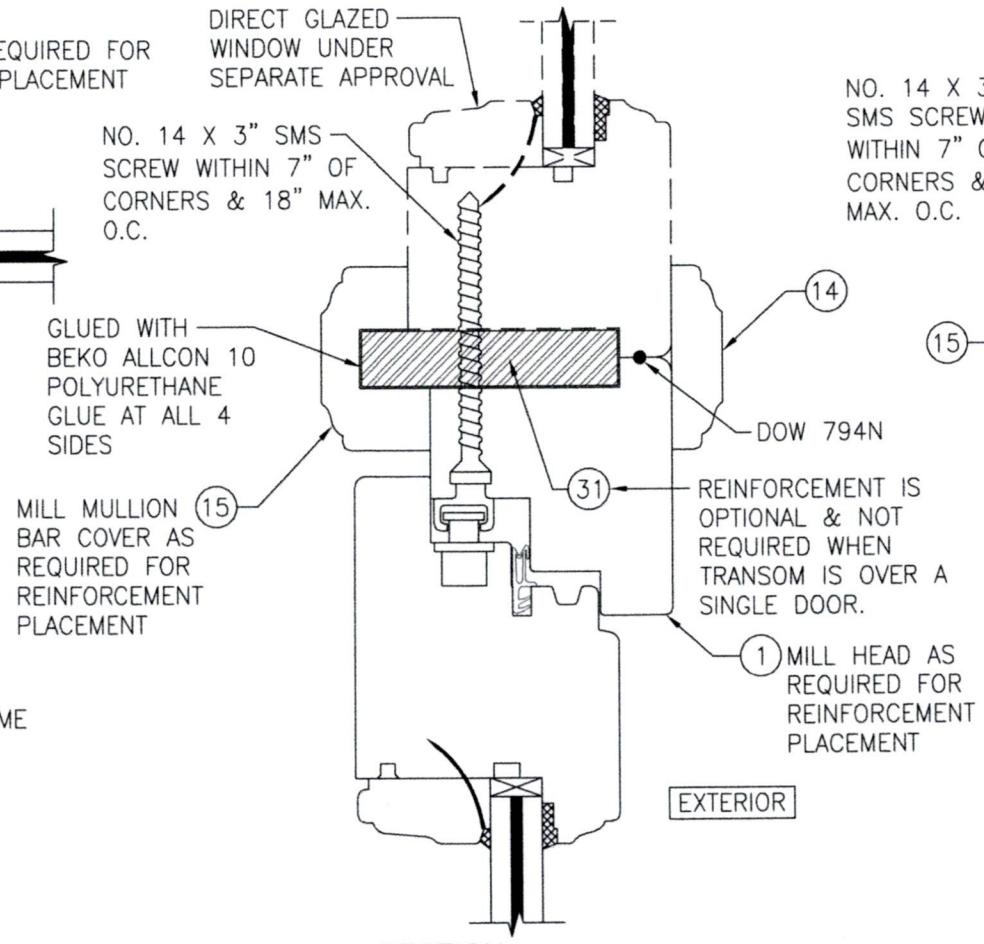
DRAWING NO. 1601 | REV. D

SHEET NO. 12 OF 19



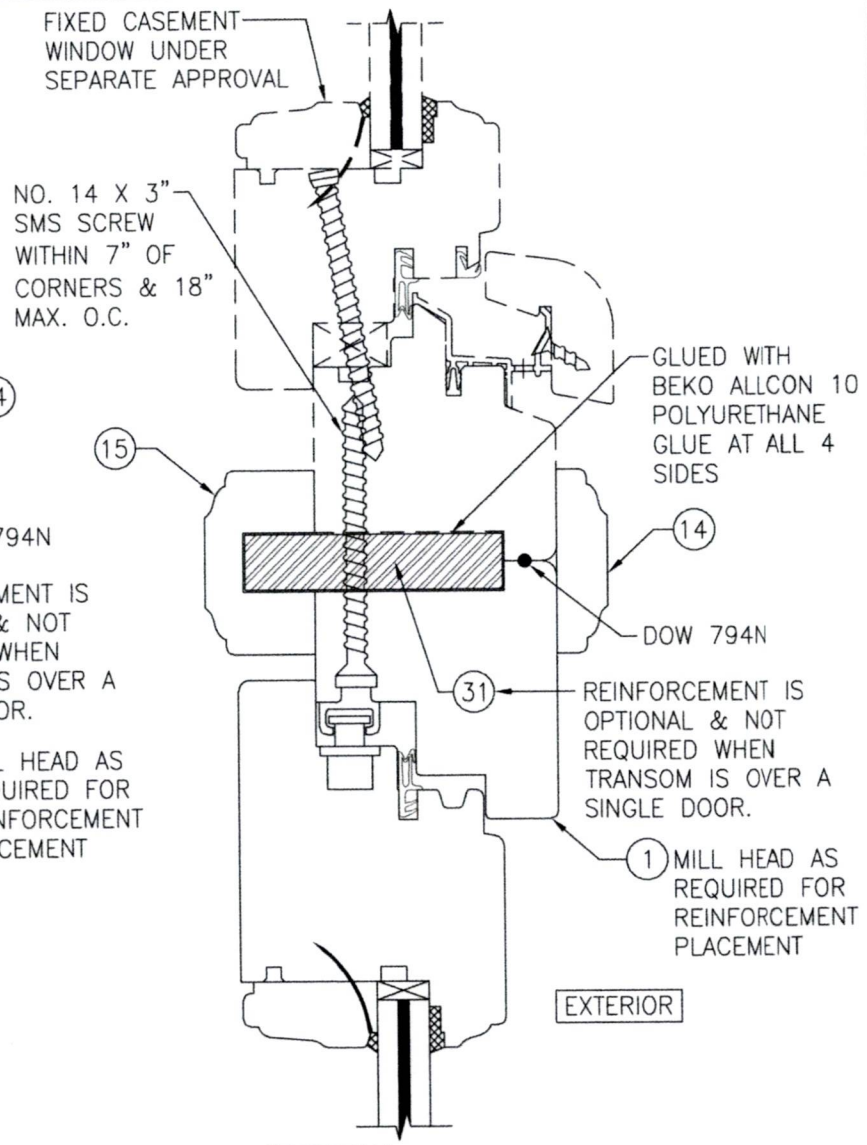
SECTION G6/13
SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



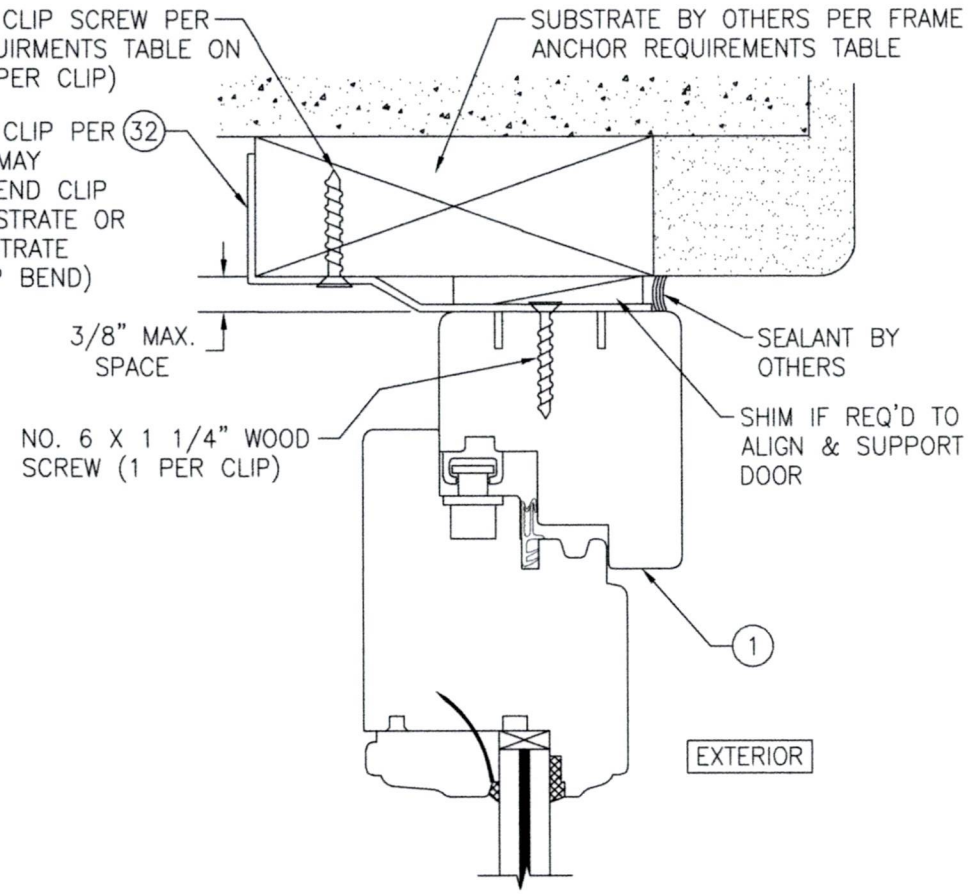
SECTION H1/13
SCALE: 1/2 FULL

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



SECTION H2/13
SCALE: 1/2 FULL

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



OPTIONAL INSTALLATION CLIP DETAIL

(HEAD SECTION SHOWN, 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: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

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

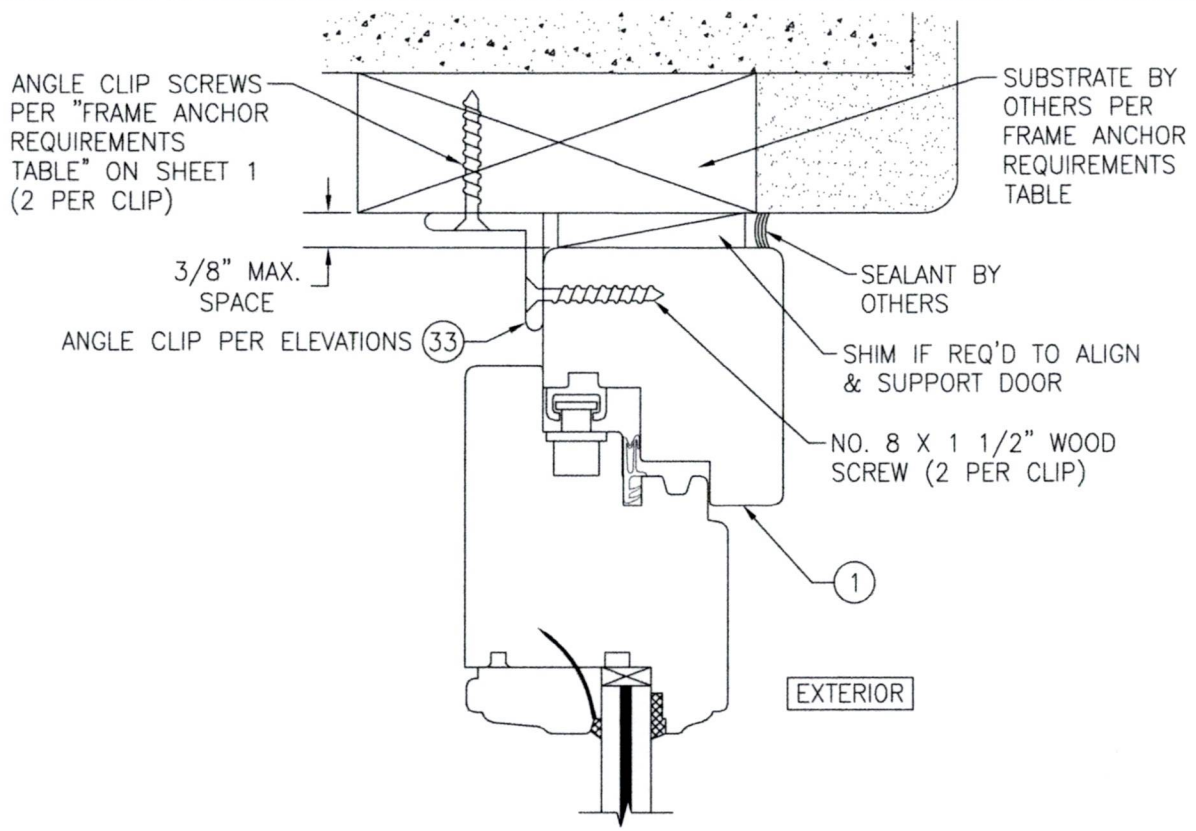
DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

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

CERTIFICATION

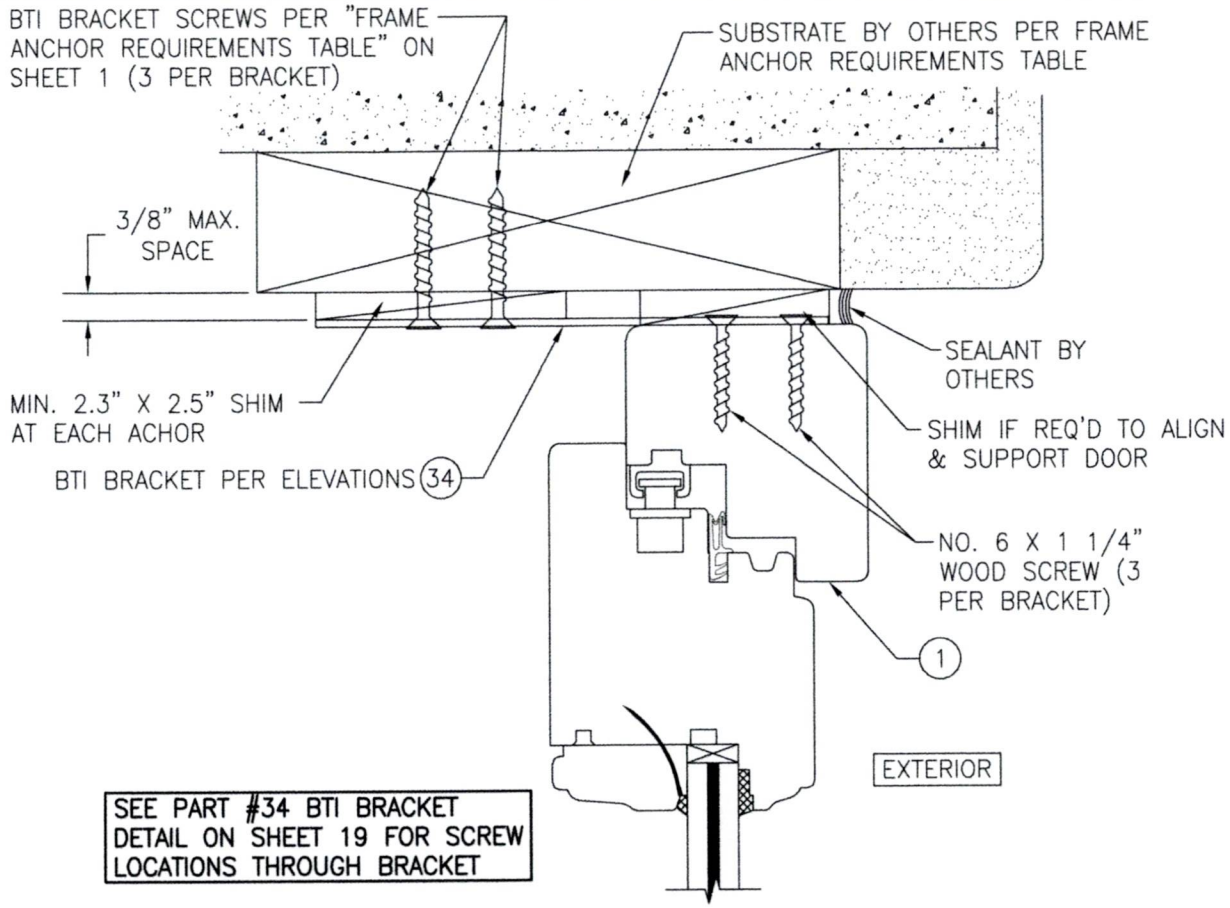
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1601 | REV. D
SHEET NO. 13 OF 19



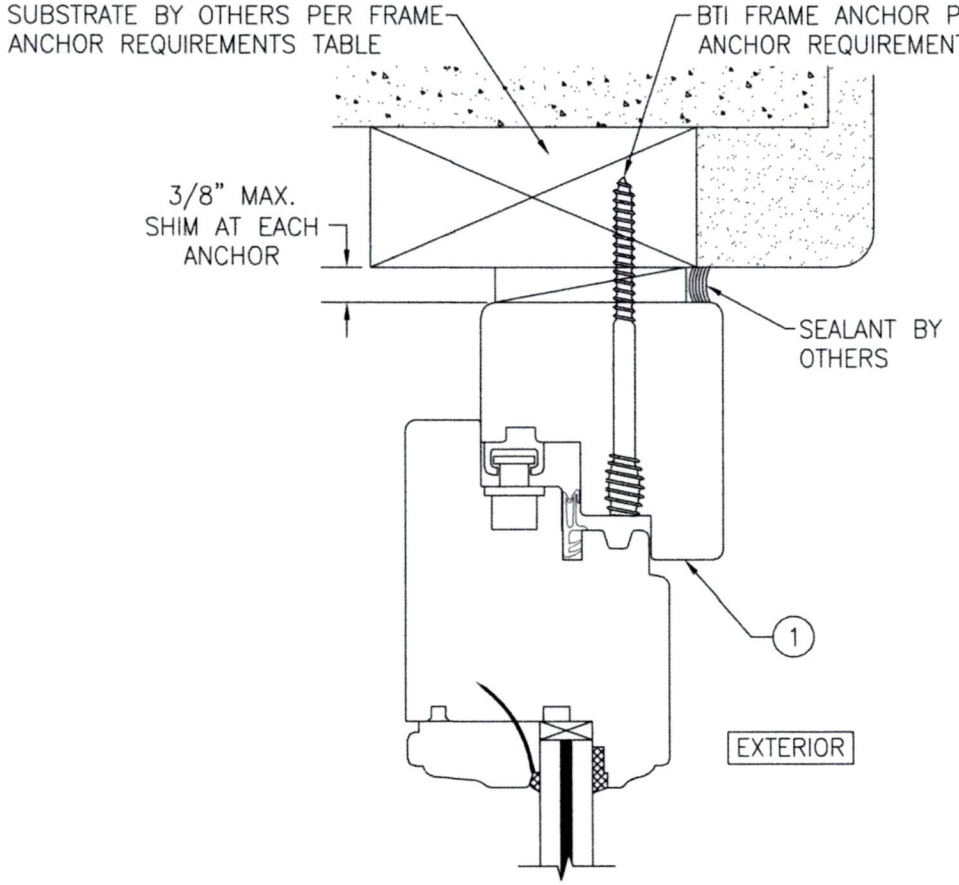
OPTIONAL INSTALLATION ANGLE CLIP DETAIL

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



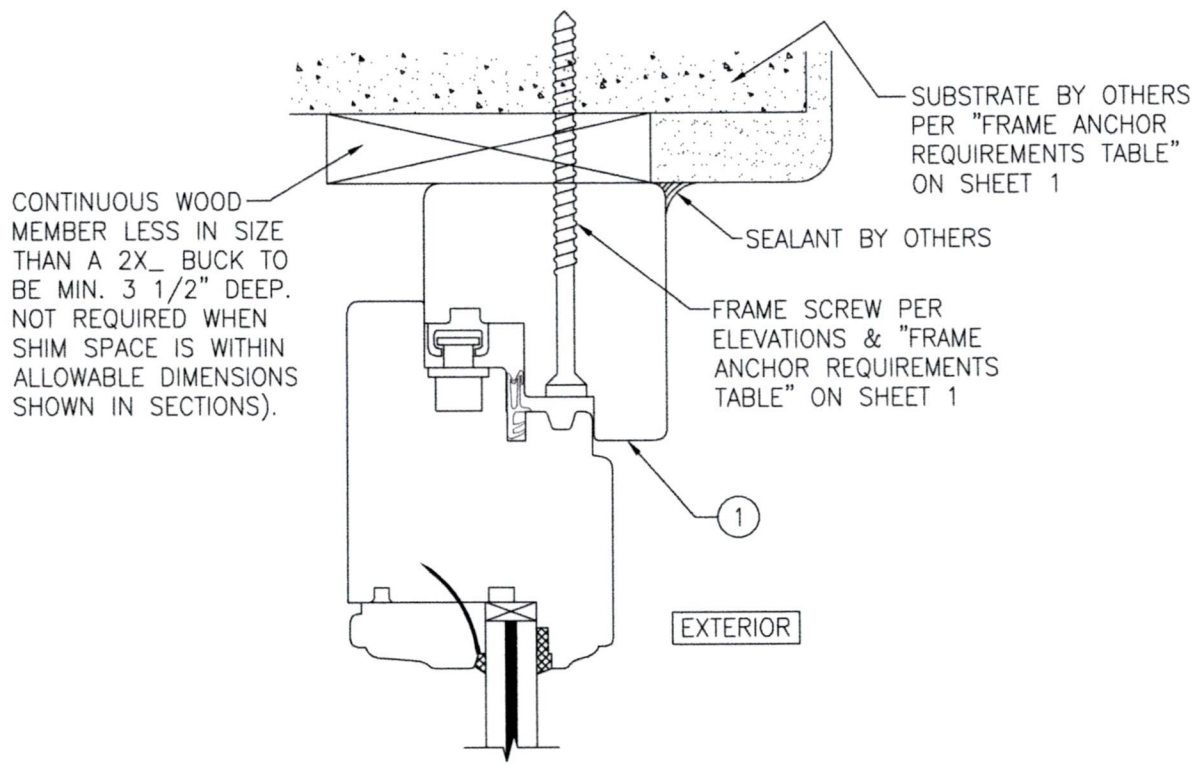
OPTIONAL INSTALLATION BTI BRACKET DETAIL

(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)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

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

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 10/08/08

DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

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

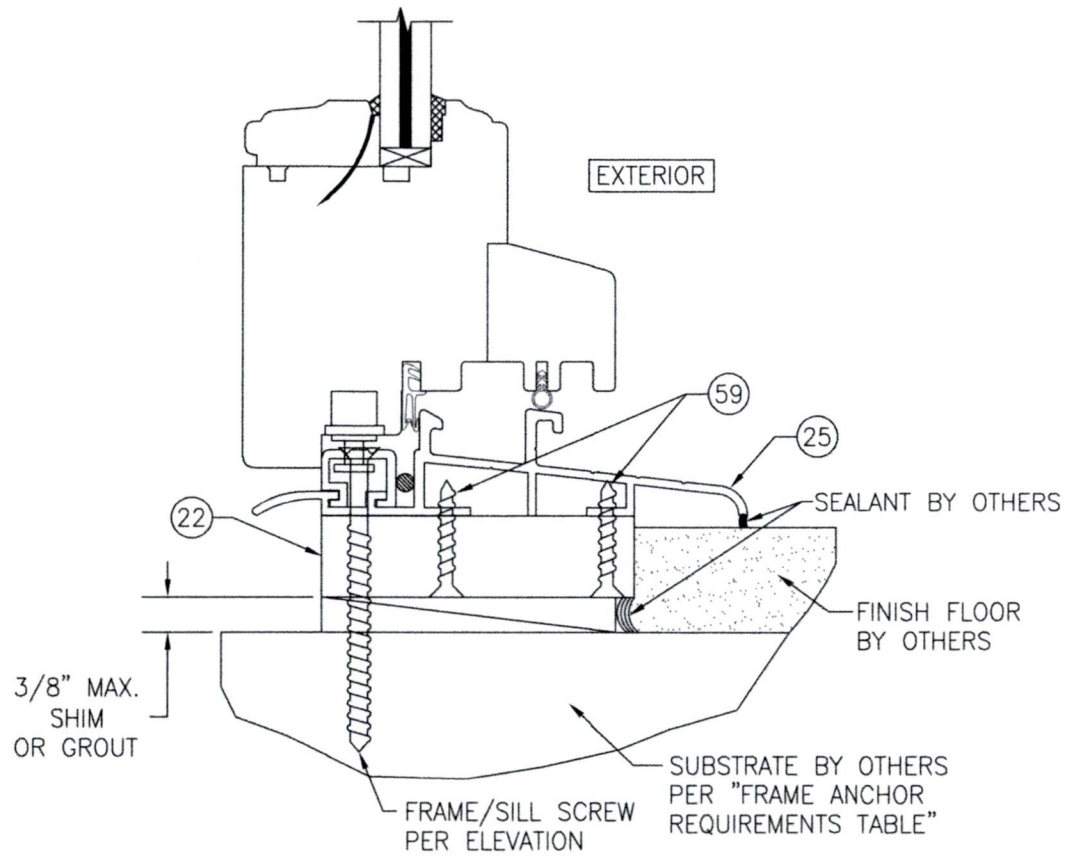
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

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

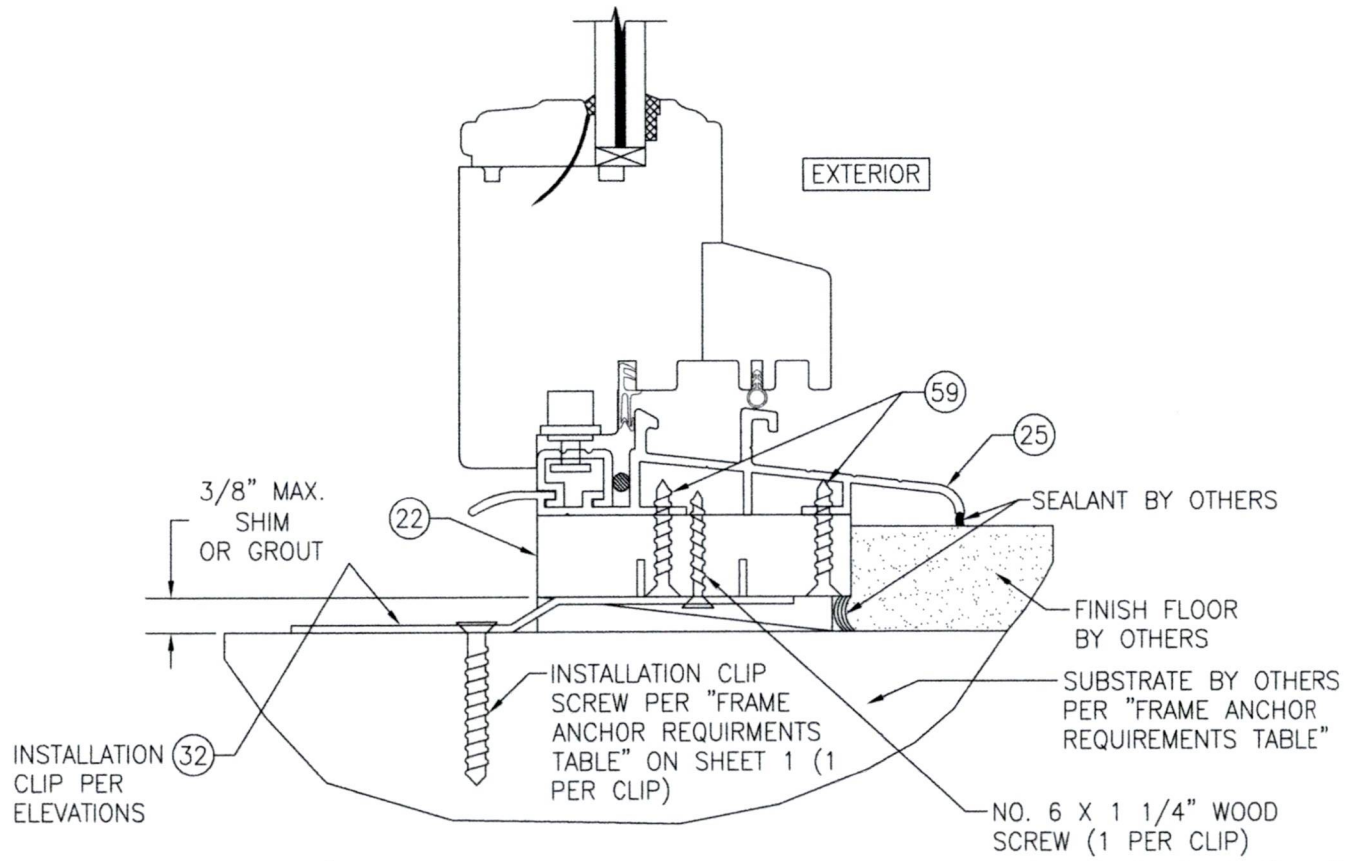
DRAWING NO. 1601 | REV. D

SHEET NO. 14 OF 19



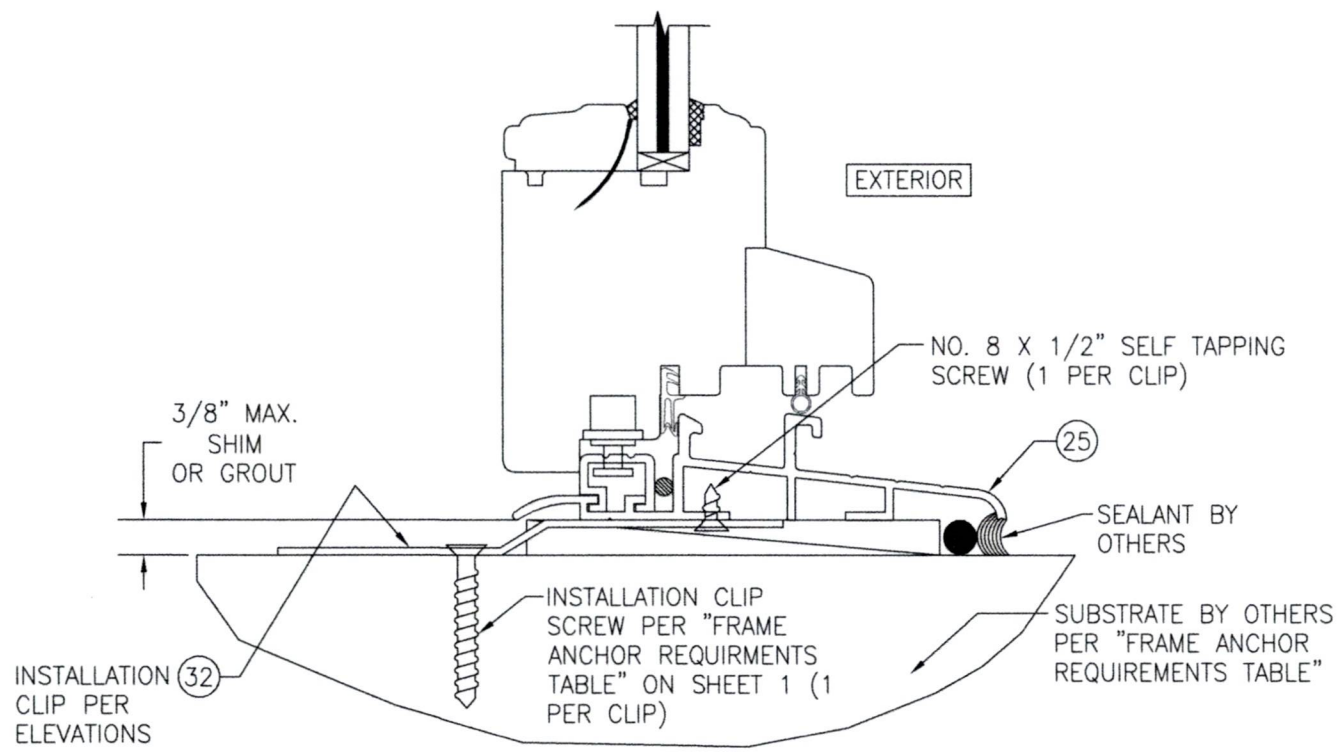
SILL DETAIL (STANDARD SILL INSTALLED WITH FRAME/SILL SCREW & SUB-SILL)

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



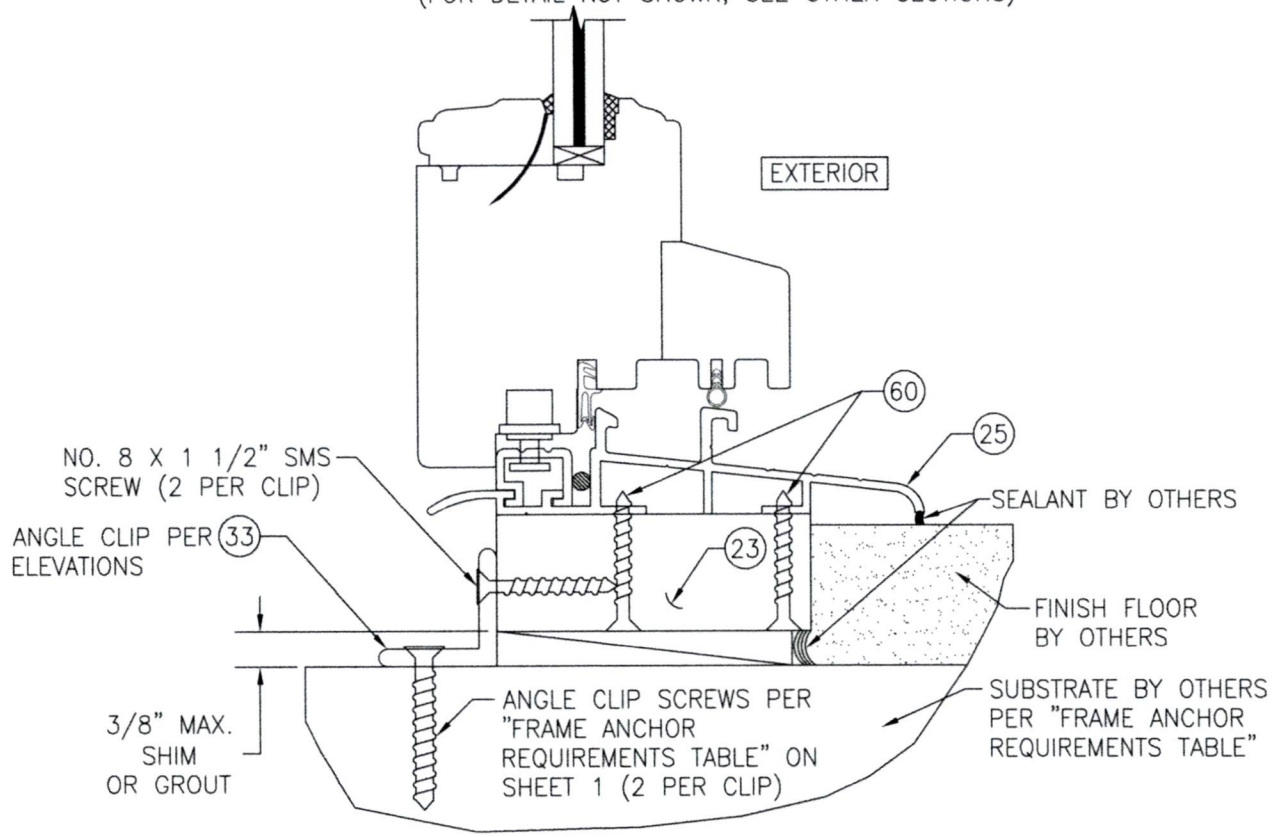
SILL DETAIL (STANDARD SILL INSTALLED WITH INSTALLATION CLIP & SUB-SILL)

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



SILL DETAIL (STANDARD SILL INSTALLED WITH ANGLE CLIP & NO SUB-SILL)

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS 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)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

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

DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

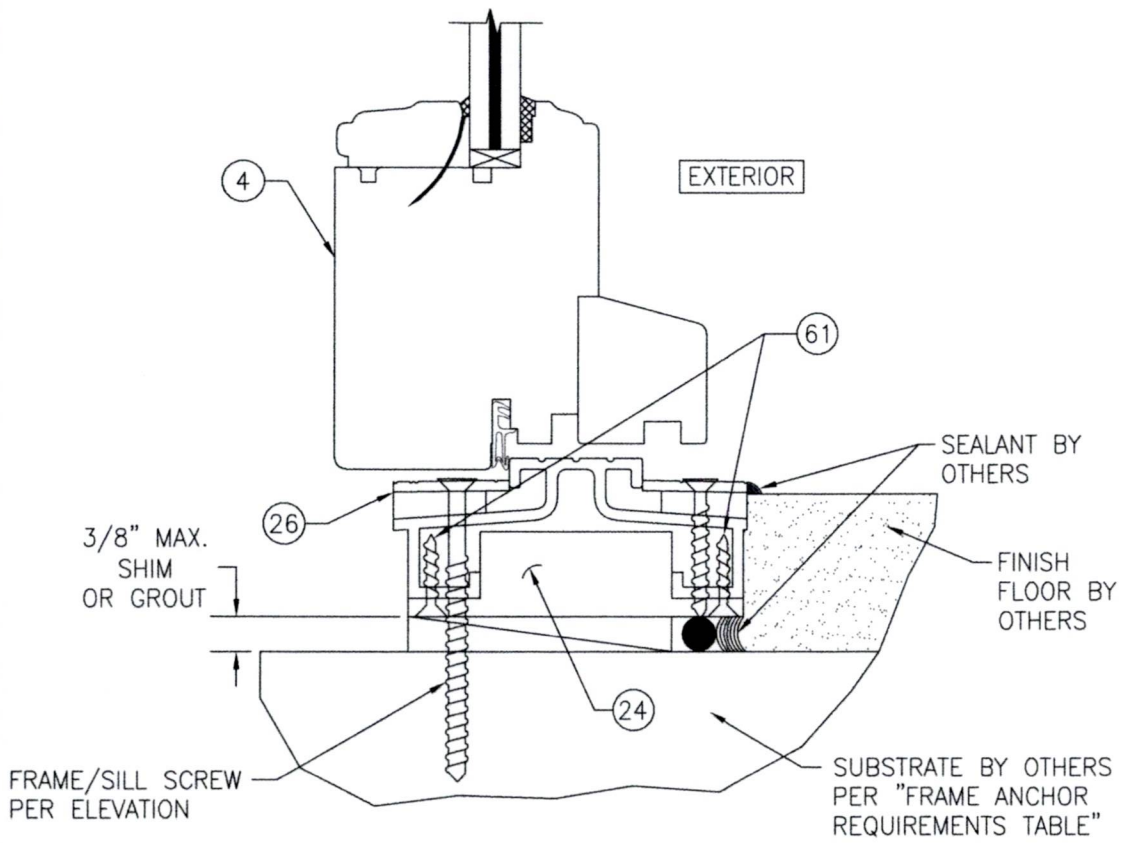
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

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

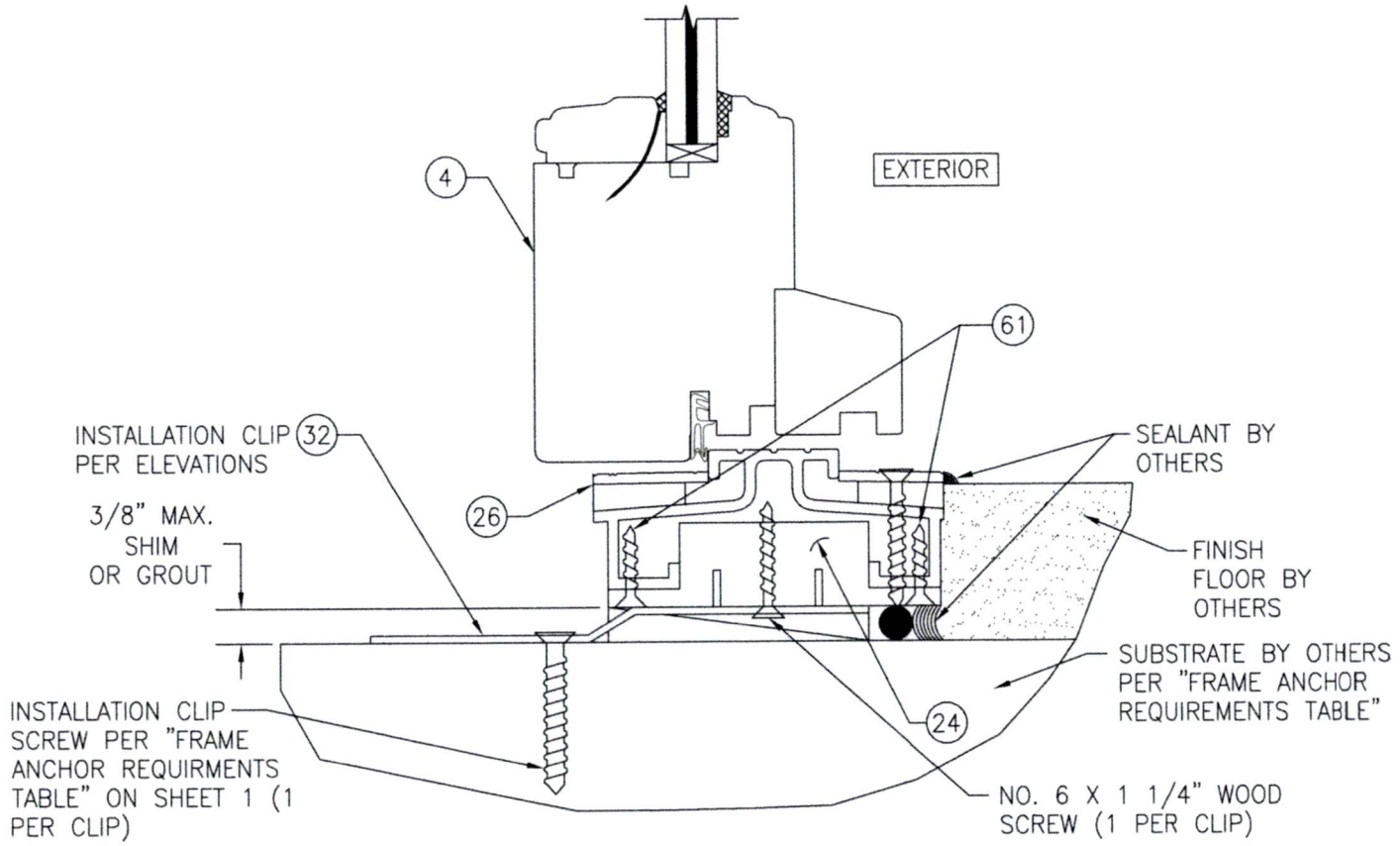
DRAWING NO.	REV.
1601	D

SHEET NO.
15 OF 19



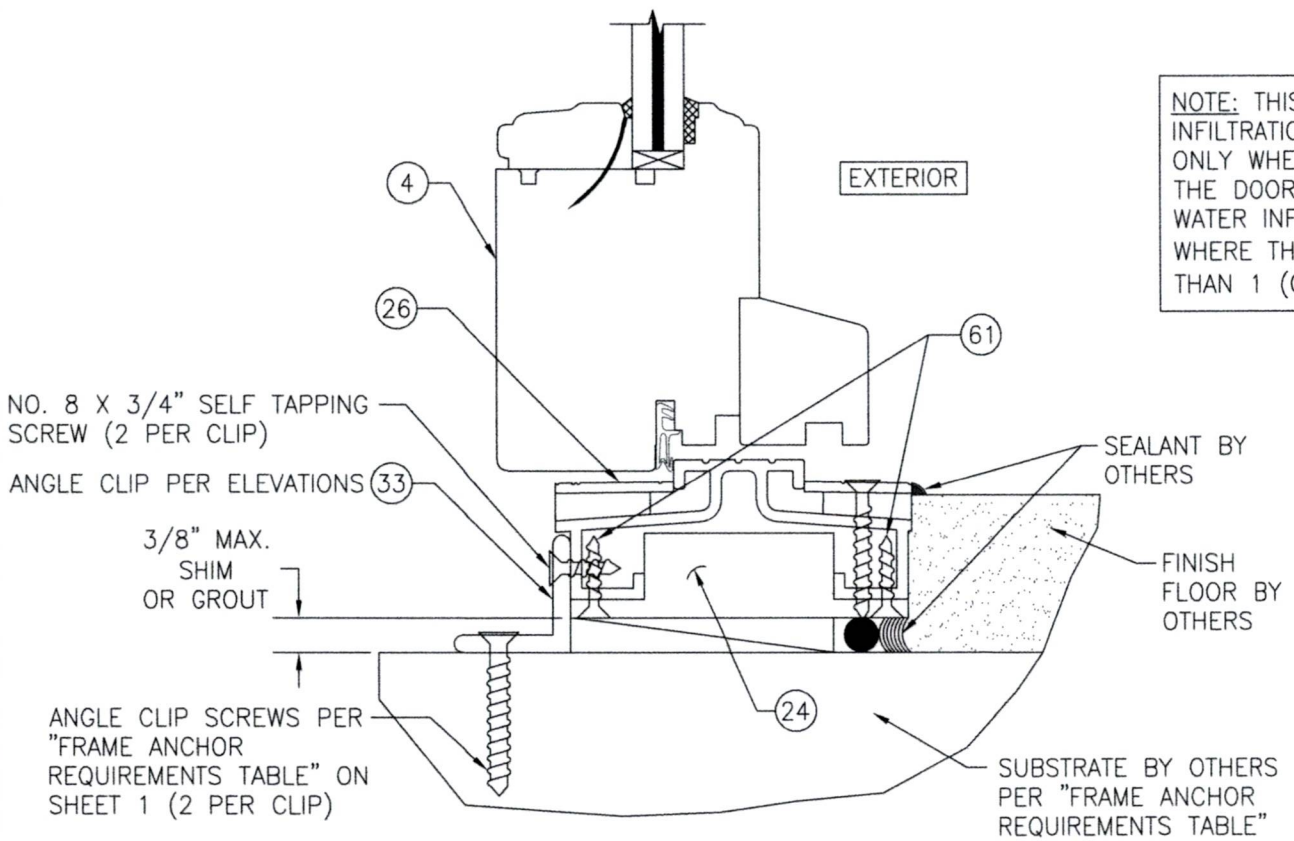
ADA SILL DETAIL (ADA SILL INSTALLED WITH FRAME/SILL SCREW)

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



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)



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)

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).

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

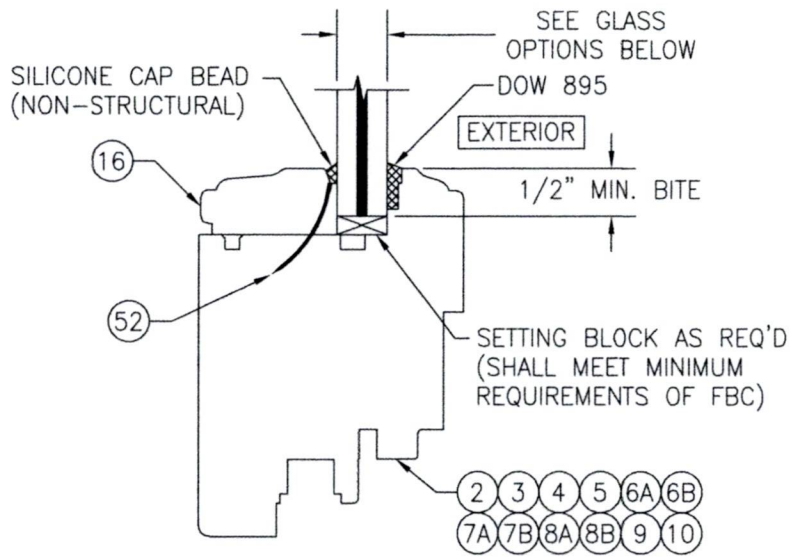
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

DRAWING TITLE
IN-SWING IMPACT WOOD 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. 1601 | REV. D
SHEET NO. 16 OF 19

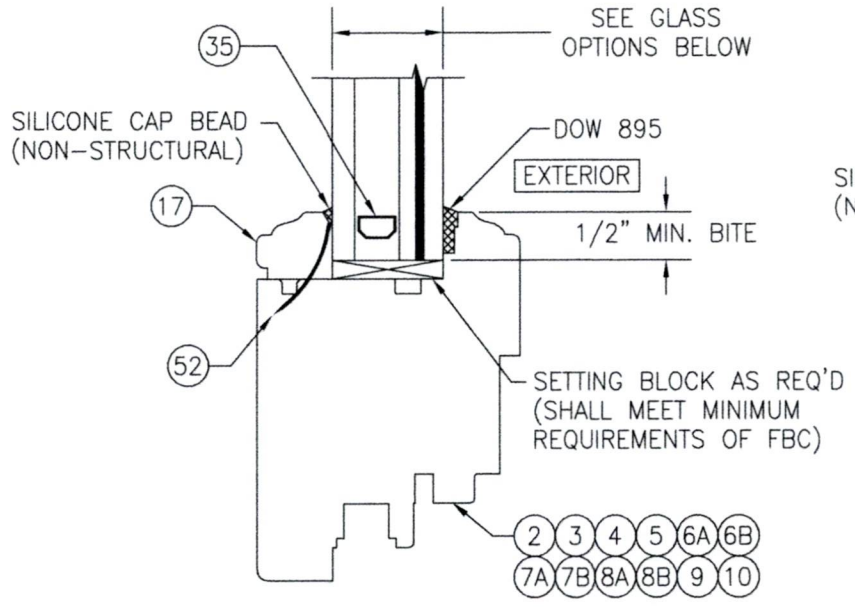


NON-I.G. GLAZING DETAIL
GLASS OPTIONS 1, 2 & 3

GLASS OPTION 1: 9/16" LAMINATED GLASS (1/4" AN./0.09" EASTMAN CHEM. CO. SAFLEX PVB/1/4" AN.)

GLASS OPTION 2: 9/16" LAMINATED GLASS (1/4" H.S./0.075" EASTMAN CHEM. CO. SAFLEX STORM/1/4" H.S.)

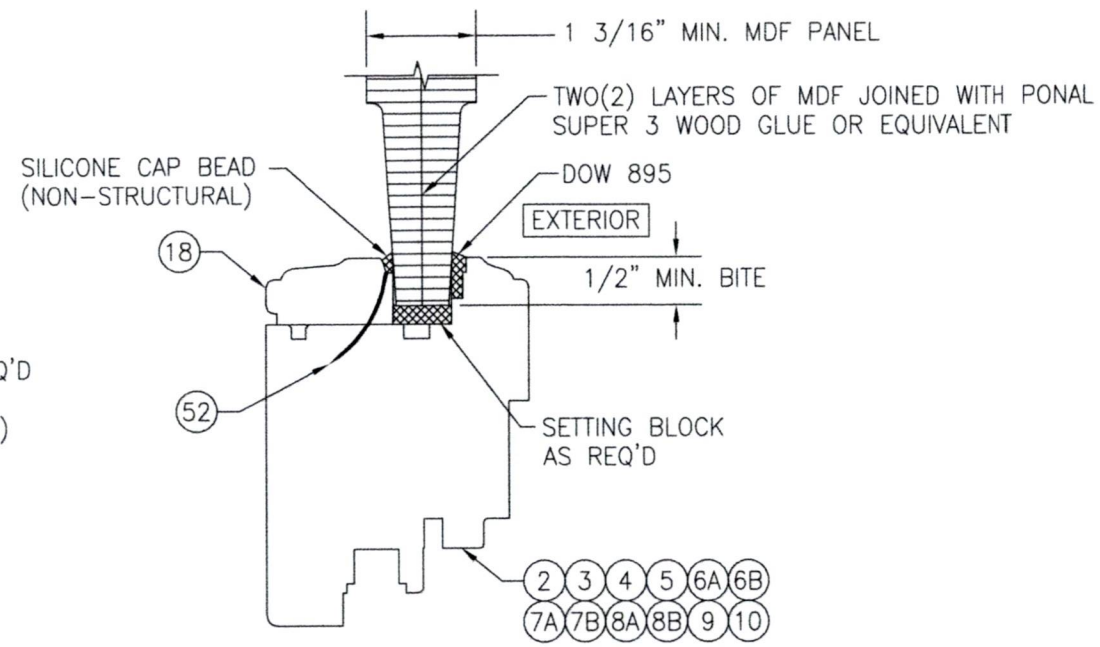
GLASS OPTION 3: 9/16" LAMINATED GLASS (1/4" AN./0.075" EASTMAN CHEM. CO. SAFLEX STORM/1/4" AN.)



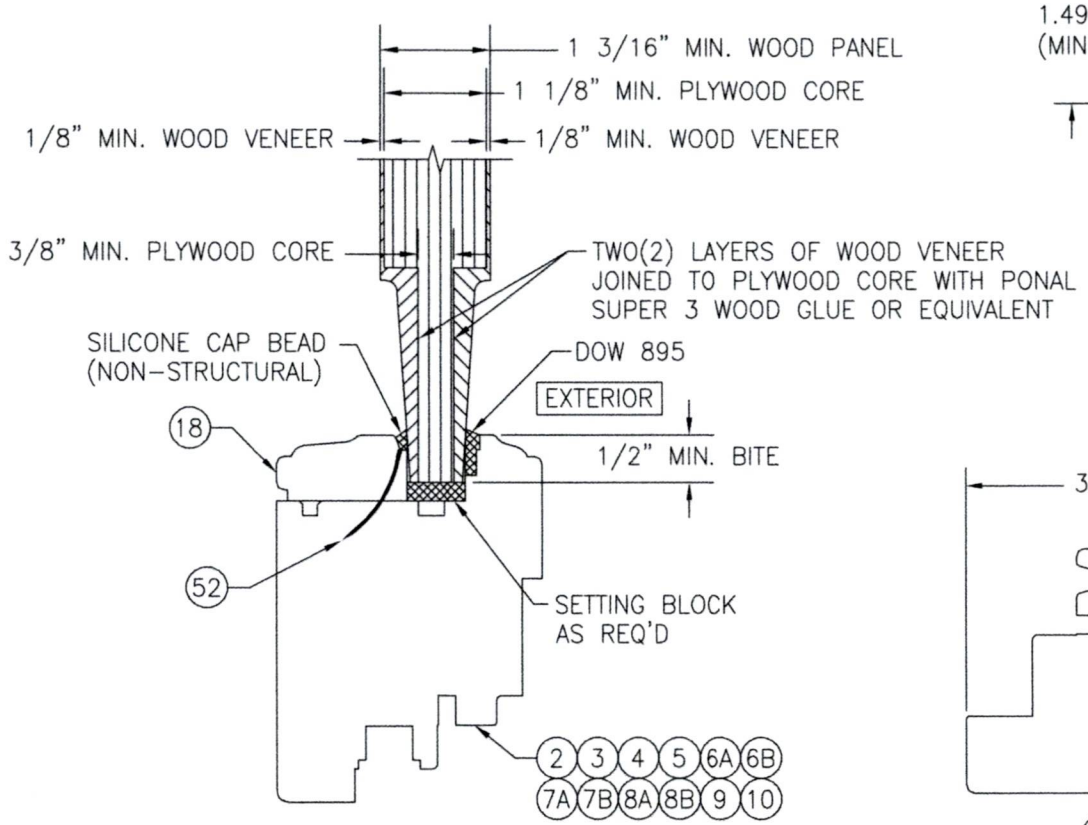
I.G. GLAZING DETAIL
GLASS OPTIONS 4, & 5

GLASS OPTION 4: 1 3/16" LAMINATED I.G. (3/16" AN./0.09" EASTMAN CHEM. CO. SAFLEX PVB/3/16" AN./1/2" AIR SPACE/1/4 TEMP.)

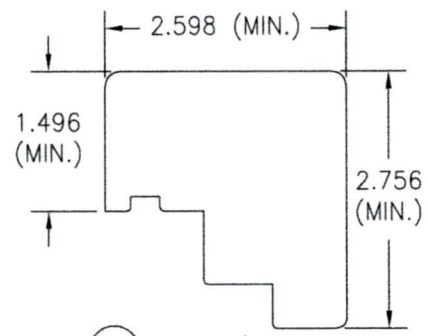
GLASS OPTION 5: 1 3/16" LAMINATED I.G. (3/16" H.S./0.075" EASTMAN CHEM. CO. SAFLEX STORM/3/16" H.S./1/2" AIR SPACE/1/4 TEMP.)



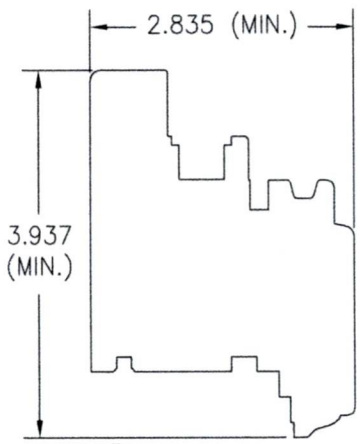
MDF PANEL GLAZING DETAIL



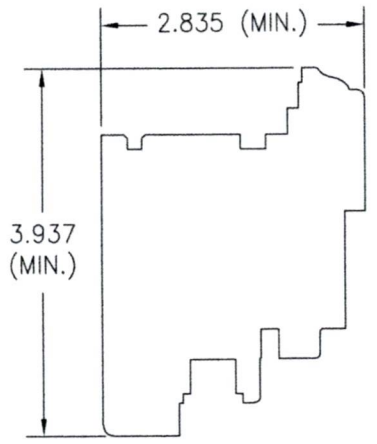
WOOD VENEER PANEL GLAZING DETAIL



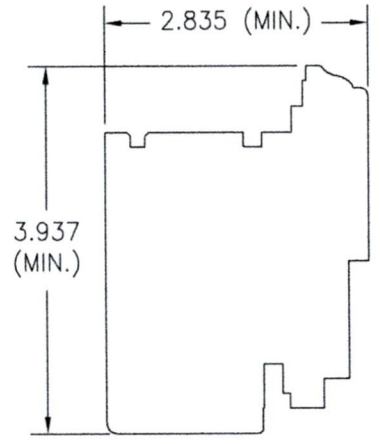
(1) HEAD/JAMB



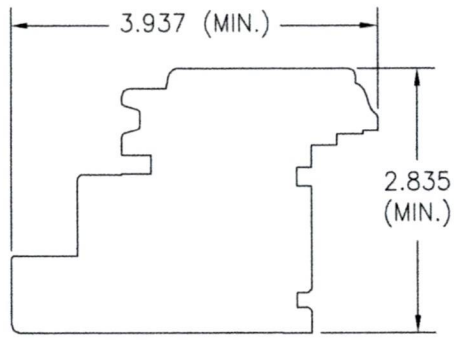
(2) TOP RAIL



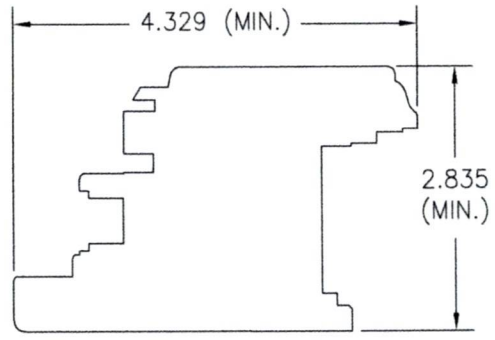
(3) STANDARD BOTTOM RAIL



(4) BOTTOM RAIL (USED WITH ADA THRESHOLD)



(5) STILE



(6A) ACTIVE MEETING STILE (USED WITH REINFORCEMENT)

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 10/08/08

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

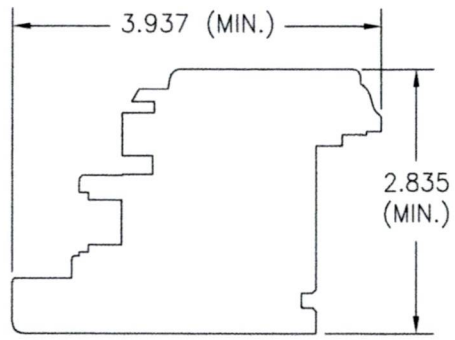
DRAWING TITLE
IN-SWING IMPACT WOOD DOORS

CERTIFICATION

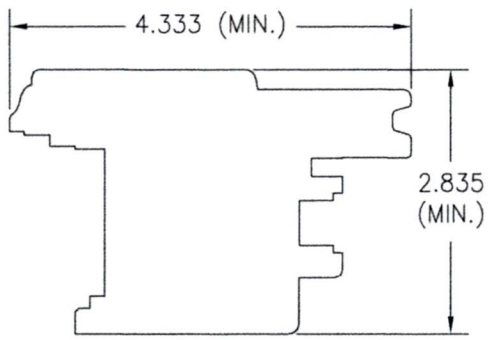
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1601 | REV. D

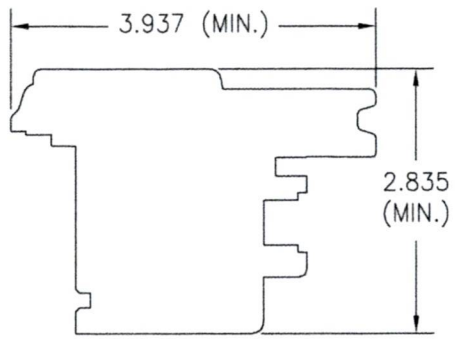
SHEET NO. 17 OF 19



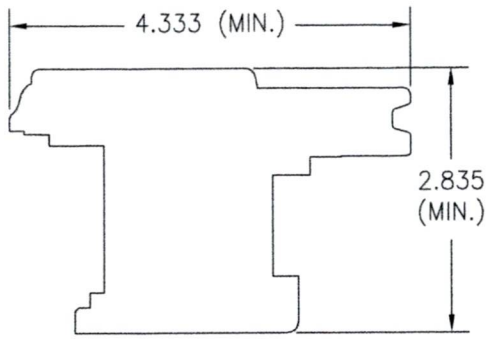
6B ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)



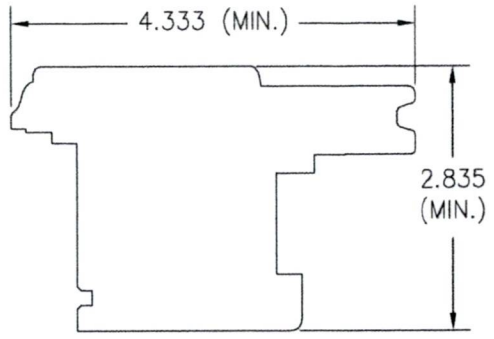
7A INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)



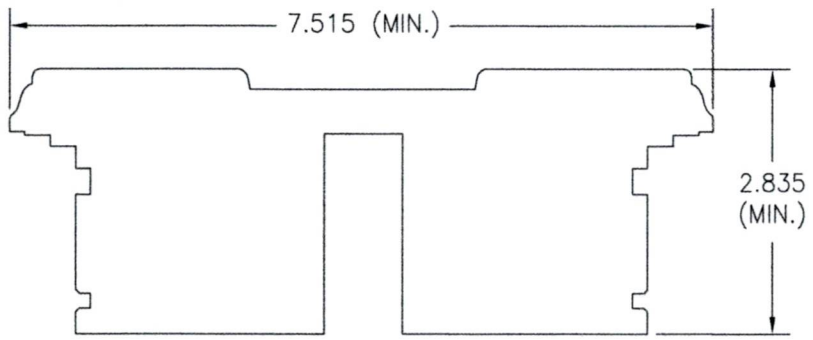
7B INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)



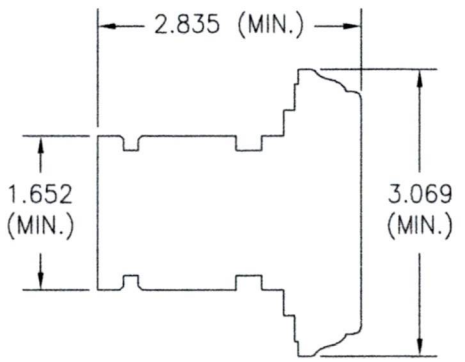
8A INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & REINFORCEMENT)



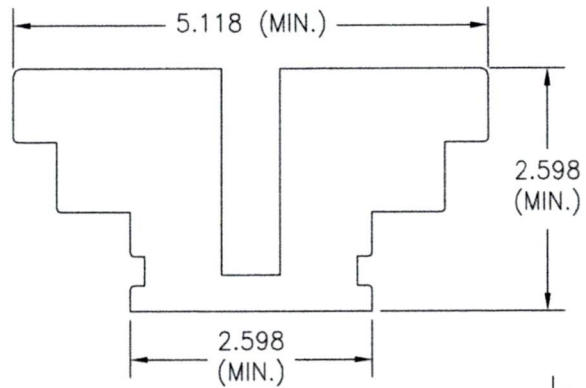
8B INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & WITHOUT REINFORCEMENT)



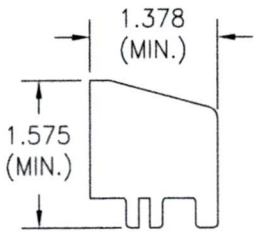
9 FIXED ASTRAGAL



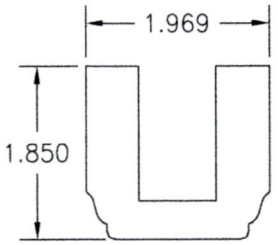
10 MID-RAIL



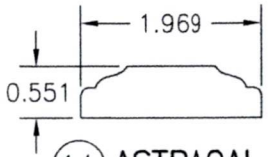
11 ONE-PIECE MULLION



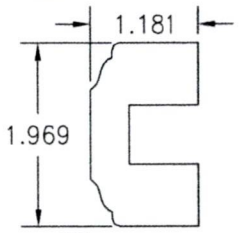
12 BOTTOM RAIL DRIP EDGE



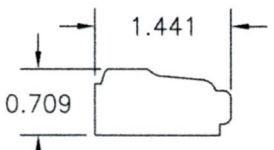
13 MULLION BAR COVER



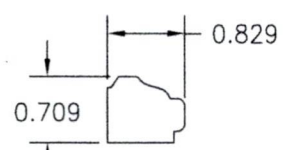
14 ASTRAGAL



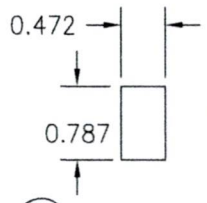
15 MULLION BAR COVER



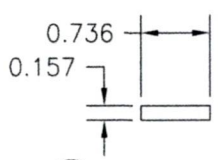
16 NON-I.G., MDF & WOOD VEENER GLAZING BEAD



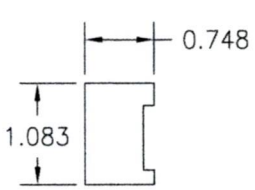
17 I.G. GLAZING BEAD



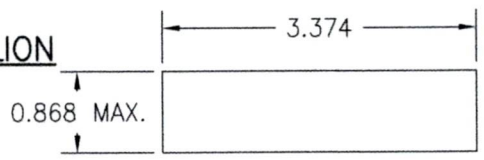
19 SPACER BLOCK



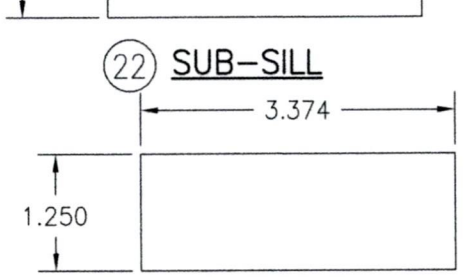
20 SPACER BLOCK



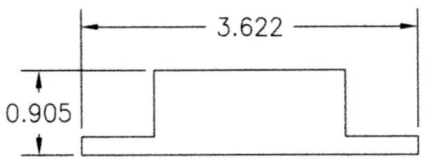
21 SPACER BLOCK (USED WITH KFV MULTI-POINT LOCK SYSTEM)



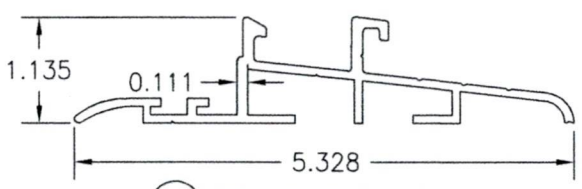
22 SUB-SILL



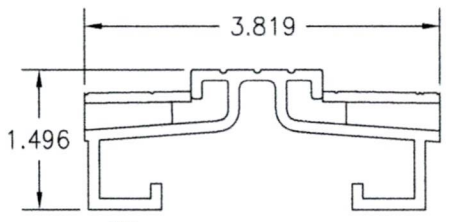
23 SUB-SILL



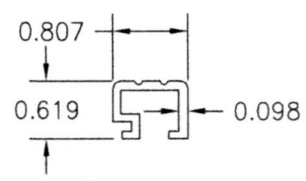
24 ADA SUB-SILL



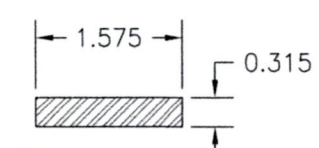
25 STANDARD SILL



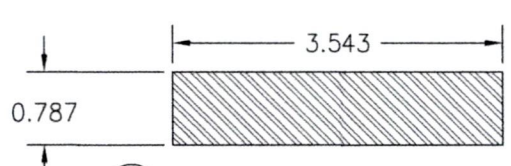
26 OPTIONAL ADA SILL



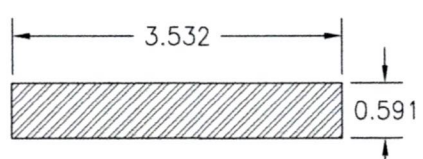
27 CONTINUOUS SILL STRIKE/COVER



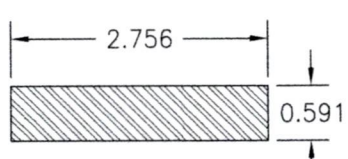
28 MEETING STILE REINFORCEMENT



29 VERTICAL FIXED ASTRAGAL REINFORCEMENT



30 VERTICAL MULLION REINFORCEMENT



31 TRANSOM MULLION REINFORCEMENT

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

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

DRAWING TITLE
IN-SWING IMPACT WOOD GLAZED PANEL DOORS

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

CERTIFICATION

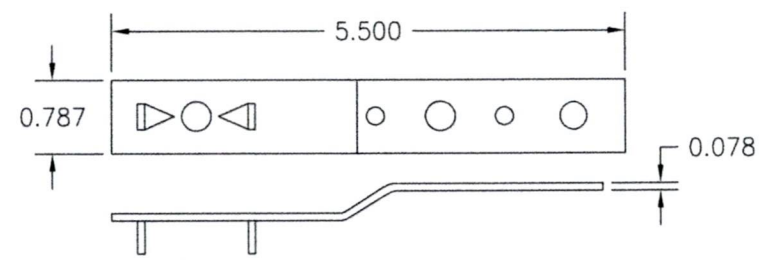
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	REV.
1601	D

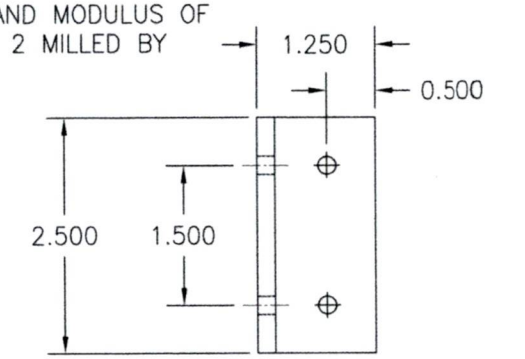
SHEET NO.
18 OF 19

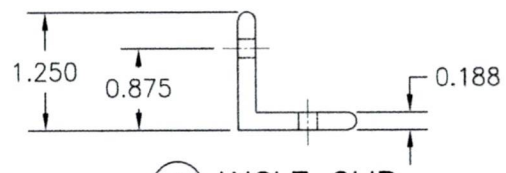
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	HEAD/JAMB	MAHOGANY
2	TOP RAIL	MAHOGANY
3	STANDARD BOTTOM RAIL	MAHOGANY
4	BOTTOM RAIL (USED WITH ADA THRESHOLD)	MAHOGANY
5	STILE	MAHOGANY
6A	ACTIVE MEETING STILE (USED WITH REINFORCEMENT)	MAHOGANY
6B	ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)	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 KFV LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
8B	INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
9	FIXED ASTRAGAL	MAHOGANY
10	MID-RAIL	MAHOGANY
11	ONE-PIECE MULLION	MAHOGANY
12	BOTTOM RAIL DRIP EDGE	MAHOGANY
13	MULLION BAR COVER	MAHOGANY
14	ASTRAGAL	MAHOGANY
15	MULLION BAR COVER	MAHOGANY
16	NON-I.G., MDF & WOOD VEENER GLAZING BEAD	MAHOGANY
17	I.G. GLAZING BEAD	MAHOGANY
19	SPACER BLOCK	MAHOGANY
20	SPACER BLOCK	MAHOGANY
21	SPACER BLOCK (USED WITH KFV MULTI-POINT LOCK SYSTEM)	MAHOGANY
22	SUB-SILL	MAHOGANY
23	SUB-SILL	MAHOGANY
24	ADA SUB-SILL	MAHOGANY
25	STANDARD SILL	BRONZE
26	OPTIONAL ADA SILL	BRONZE
27	CONTINUOUS SILL STRIKE/COVER	BRONZE
28	MEETING STILE REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
29	VERTICAL FIXED ASTRAGAL REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
30	VERTICAL MULLION REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
31	TRANSOM MULLION 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
35	I.G. SPACER	ALUMINUM
	HARDWARE	
37	SCREWED IN HINGE	74mm X 16mm GENIATEC GMBH; FE 74WF 120mm X 16mm GENIATEC GMBH; TUE120WF 85mm X 20mm SIMONS BAKA; C1-20 130mm X 15mm ANUBA; 515 SM 130mm X 18mm ANUBA; 518 SM
38	POT HINGE	BY: SIEGENIA AUBI KG TYPE: SI
39	MULTI-POINT LOCK SYSTEM	BY: KFV: STRAIGHT SHOOT
40	MULTI-POINT LOCK SYSTEM	BY: SIEGENIA AUBI KG TYPE: MUSHROOM
41	HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM
	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	0.18" X 1.57" WOOD SCREW	3 PER HINGE INTO STILE
54	0.18" X 1.57" WOOD SCREW	4 PER HINGE INTO JAMB
55	0.30" X 3.94" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
57	0.24" X 3.74" WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
58	0.18" X 2" WOOD SCREW	WITHIN 6" OF ENDS & 17" MAX. O.C.
59	0.136" X 1.26" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
60	0.136" X 1.50" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
61	0.11" X 0.87" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" 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.

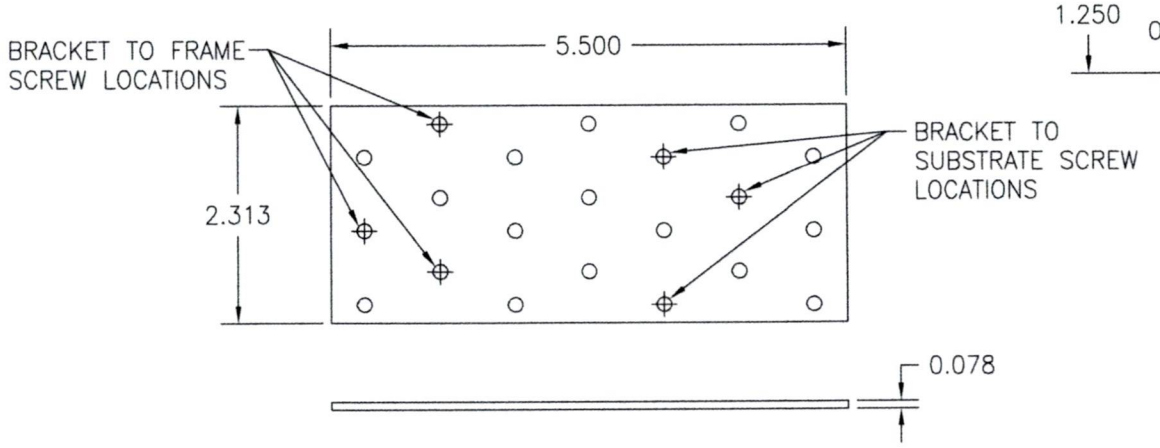


(32) INSTALLATION CLIP

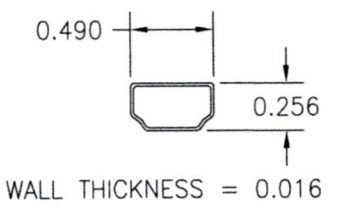




(33) ANGLE CLIP



(34) BTI BRACKET



(35) I.G. GLASS SPACER

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

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DRAWING TITLE
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CERTIFICATION

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DRAWING NO.	REV.
1601	D

SHEET NO.
19 OF 19