

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 $K_d = 0.85$ 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.

ALTERNATE ANCHOR/SUBSTRATE EVALUATION NOTE:

ALL ALTERNATE ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE EQUIVALENT TO OR STRONGER THAN THE ANCHOR(S) USED IN TESTING WITH THIS PRODUCT.

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 HEREIN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

FASTENERS THROUGH STRIKE PLATE INTO SUBSTRATE WITH BUMPER SILL (5 WHEN INTO WOOD; 3 WHEN INTO CONCRETE). WHEN ADA SILL IS USED, THERE IS NO STRIKE PLATE AND ALL ANCHORS RUN THROUGH SILL ONLY INTO SUBSTRATE.

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. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
HINGE & STRIKE SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 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"

EXTERIOR ELEVATION DOUBLE OUTSWING DOOR

SCALE: 3/4"=1'-0"

ALLOWABLE DESIGN PRESSURE

SEE LOAD TABLE ON SHEET 8

FRAME ANCHOR REQUIREMENTS TABLE (CONT'D)

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).			
(2) CMU IS APPLICABLE AT SIDES ONLY.			

HINGE REQUIREMENTS

DOOR HEIGHT	# HINGES REQ'D
6'-8"	3
TALLER THAN 6'-8"	(1) 4
(1) 3 HINGES REQUIRED WITH ALL HEIGHTS OF DOUBLE HALF ROUND & SINGLE QUARTER ROUND DOORS	

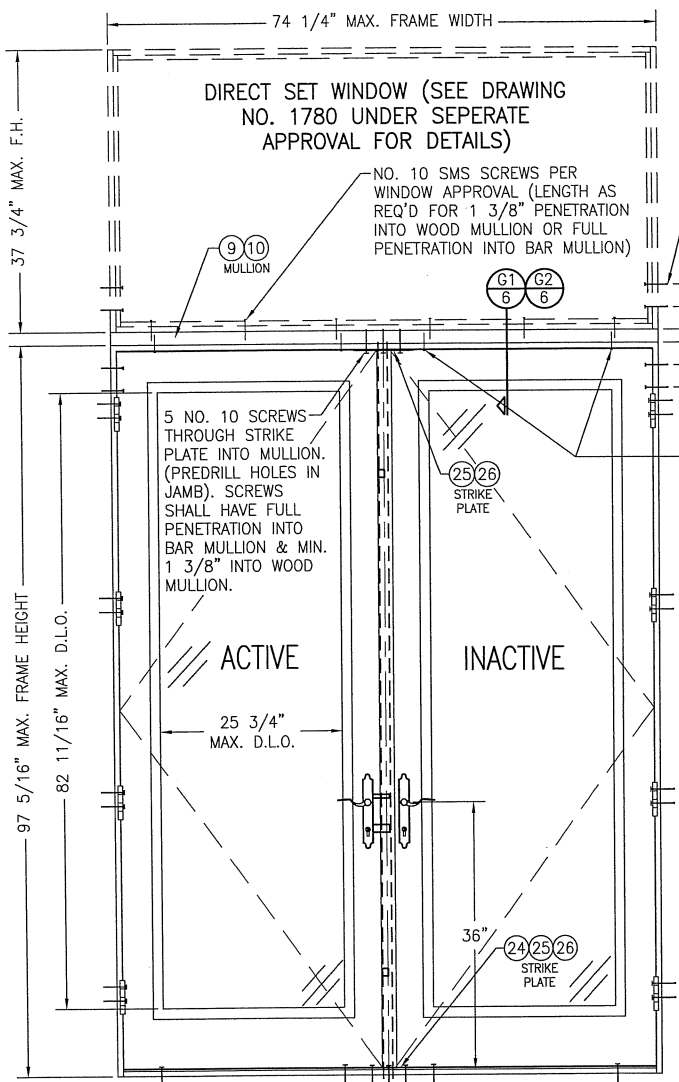
EXTERIOR ELEVATION SINGLE OUTSWING DOOR

SCALE: 3/4"=1'-0"

NOTE: SINGLE DOOR SHOWN HAS THE 3-POINT LOCK SYSTEMS. AN ALTERNATE LOCK MAY BE A SINGLE POINT BALDWIN 6021 MORTISE LOCK. IF THE MORTISE LOCK IS USED, ALLOWABLE DESIGN PRESSURE SHALL BE THE LESSER OF +/-60 PSF. OR THE LOADS IN THE LOAD TABLES.

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 LISTED ON THESE DRAWINGS.

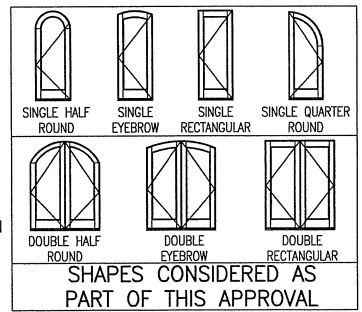
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PLOT: 1-16		DATE: 10/31/11	
DATE	BY	W.S.	
01/09/13			
REVISION DESCRIPTION			
NO.			
1	UPDATE TO CURRENT STANDARDS		
DRAWING TITLE: 8 FOOT WOOD OUTSWING IMPACT DOORS			
MANUFACTURER: SIGNATURE DOOR INC. 401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 445 SOUTH KENTWOOD AVE. PALM BEACH GARDENS, FL 33448 PHONE: 561-744-3424			
CERTIFICATION: JAN 9 2015 W. W. SCHAEFER, P.E. NO. 44135			
DRAWING NO.: 1778		REV. A	
SHEET NO. 1		OF 10	



**EXTERIOR ELEVATION
DOUBLE DOOR WITH TRANSOM**

SCALE: 3/4"=1'-0"

SEE DOUBLE DOOR ELEVATION ON SHEET 1 FOR DETAIL NOT SHOWN



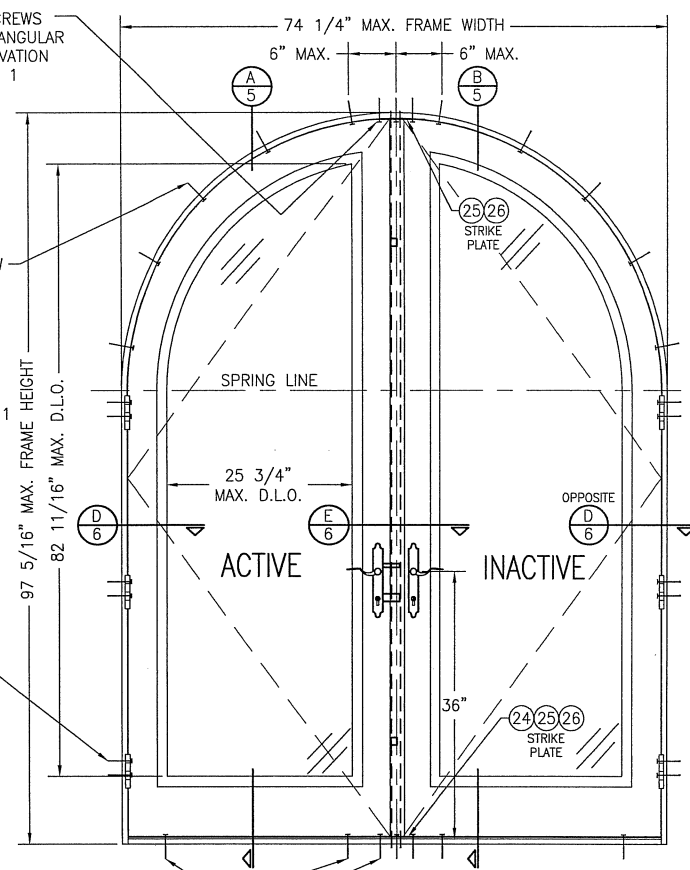
2 FRAME SCREWS OR MOUNTING CLIPS EA. SIDE OF MULLION AS SHOWN (TYP. EA. END). SEE ANCHOR REQ. TABLE ON SHEET 1 FOR SCREW REQUIREMENTS.

TYP. FRAME SCREW OR MOUNTING CLIP WITHIN 6" OF SPRING LINE & MAX. 16" O.C. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR SCREW REQUIREMENTS.

HINGE SCREW INTO SUBSTRATE (2 PER HINGE). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR SCREW REQUIREMENTS.

DOOR HEAD JAMB ANCHORS PER DOOR ELEVATION ON SHEET 1 (LENGTH OF ANCHOR AS REQ'D FOR 1 3/8" PENETRATION INTO WOOD MULLION OR FULL PENETRATION INTO BAR MULLION)

STRIKE SCREWS PER RECTANGULAR DOOR ELEVATION ON SHEET 1



**EXTERIOR ELEVATION
DOUBLE HALF ROUND DOOR**

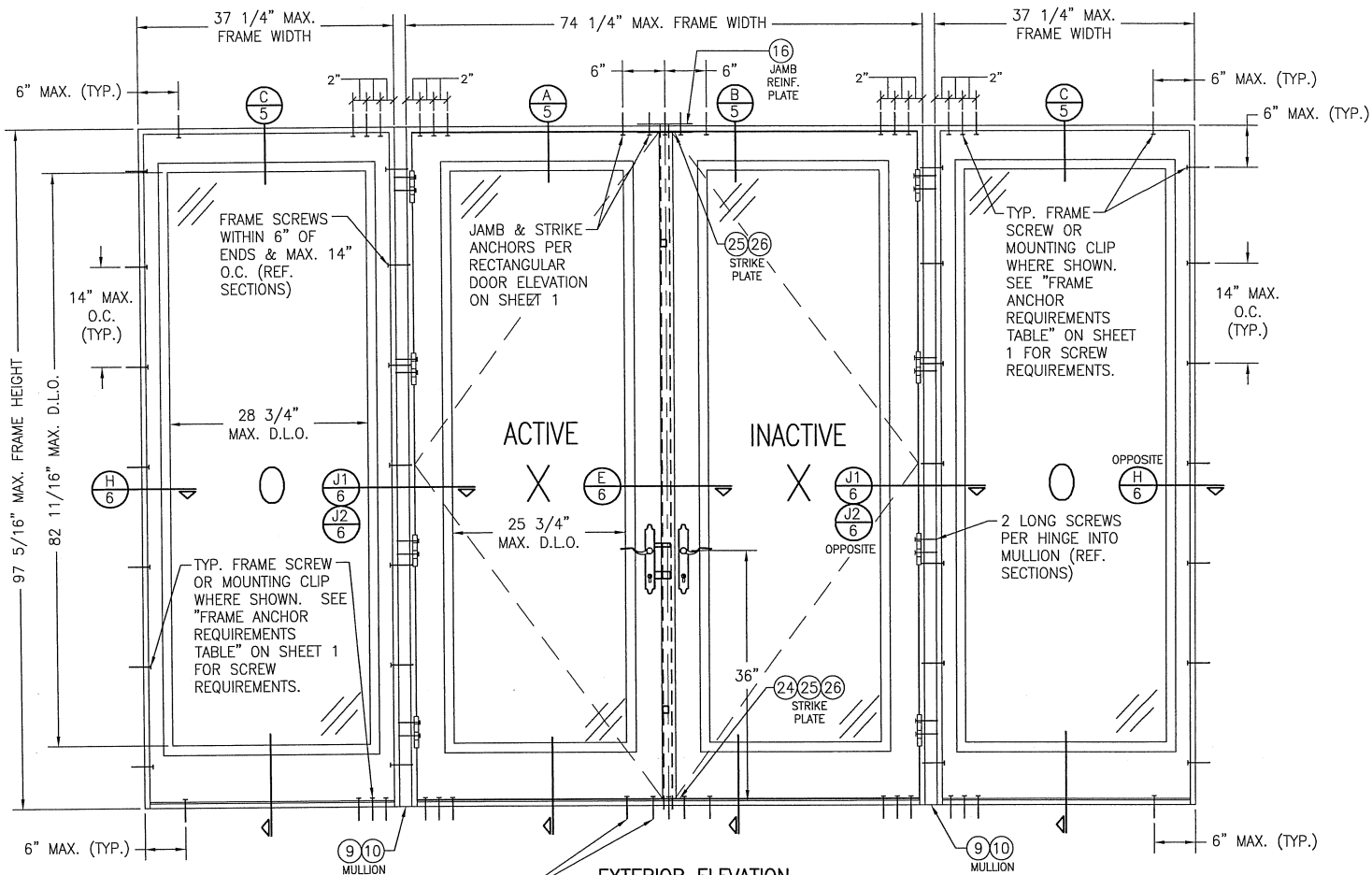
SCALE: 3/4"=1'-0"

SEE DOUBLE DOOR ELEVATION ON SHEET 1 FOR DETAIL NOT SHOWN

SILL AND STRIKE PLATE ANCHORS PER ELEVATION ON SHEET 1

NOTE: DOORS MAY BE FULLY GLAZED AS SHOWN, PARTIALLY PANELED OR FULLY PANELED. SEE SHEET 4 ELEVATION FOR PANELED DOORS.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 10/31/11	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 8 FOOT WOOD OUTSWING IMPACT DOORS			
MANUFACTURER: SIGNATURE DOOR INC. 401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: JAN 09 2015			
DRAWING NO. 1778 REV. A			
SHEET NO. 2 OF 10			



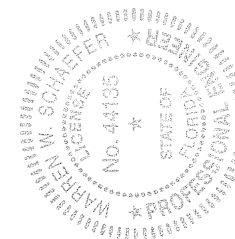
SILL AND STRIKE
PLATE ANCHORS
PER ELEVATION ON
SHEET 1

**EXTERIOR ELEVATION
MULTIPLE OPERABLE/FIXED UNIT**

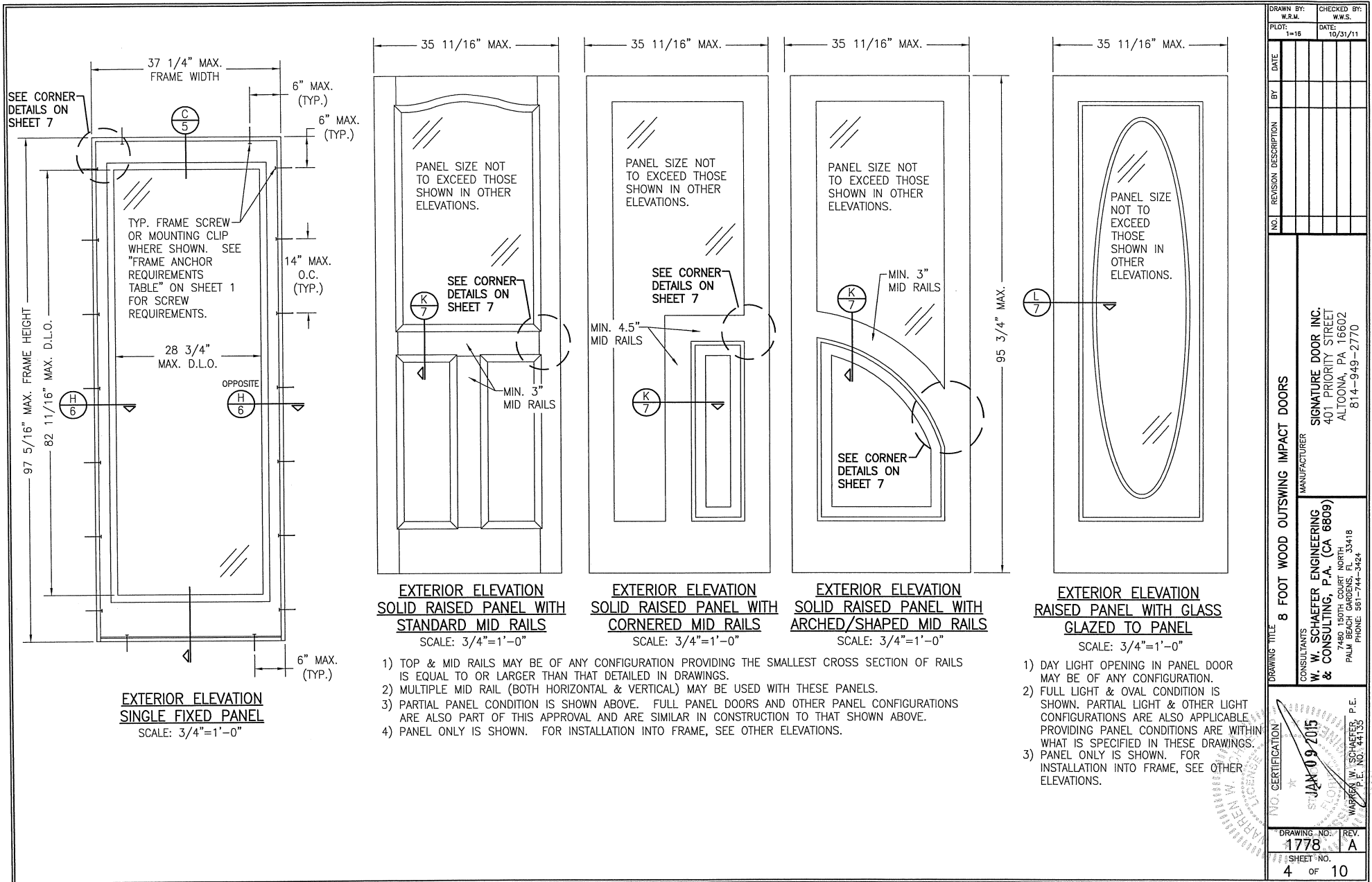
SCALE: 3/4"=1'-0"

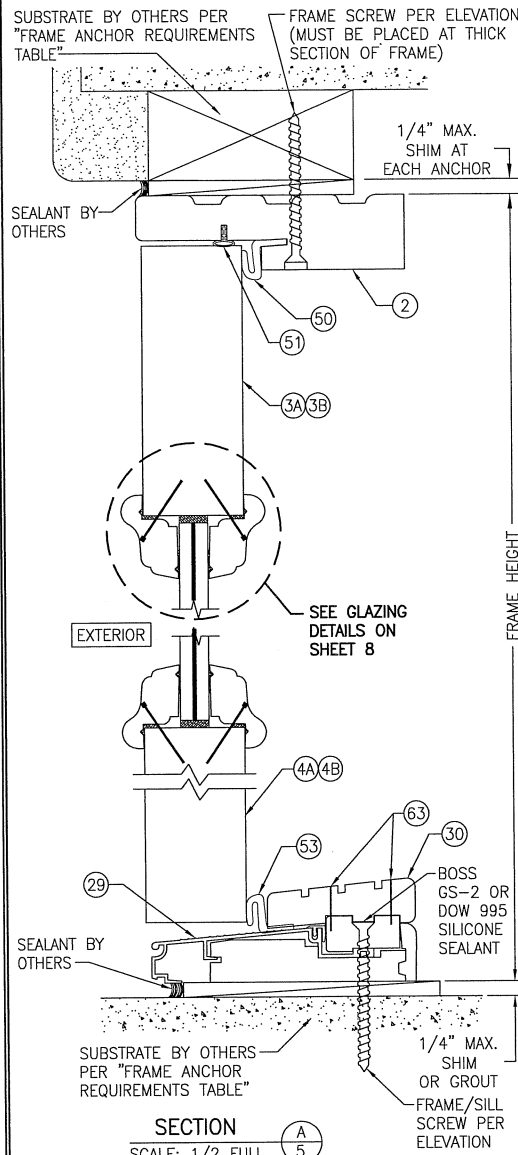
(FOR ANY DETAIL NOT SHOWN, SEE ELEVATION ON SHEET 1)
NOTE: OXXO DOOR SHOWN. ALL OTHER 4-PANEL CONFIGURATIONS
OF SINGLE/DOUBLE DOORS & SIDELIGHTS ALSO APPLY.

NOTE: DOORS MAY BE FULLY
GLAZED AS SHOWN, PARTIALLY
PANELED OR FULLY PANELED.
SEE SHEET 4 ELEVATION FOR
PANELED DOORS.

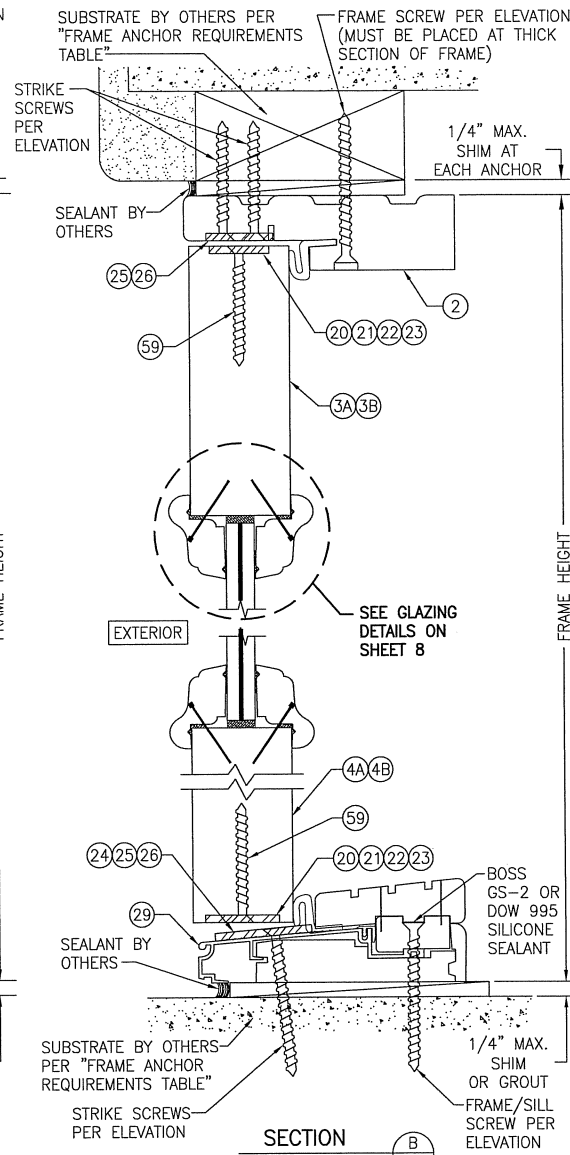


DRAWING NO. 1778		REV. A		
SHEET NO. 3		OF 10		
CERTIFICATION				
<div>JAN 09 2015</div> <div>WARREN W. SCHAEFFER, P.E. P.E. NO. 44135</div>				
DRAWING TITLE 8 FOOT WOOD OUTSWING IMPACT DOORS				
CONSULTANTS		MANUFACTURER		
W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)		SIGNATURE DOOR INC.		
7480 150TH COURT NORTH		401 PRIORITY STREET		
PALM BEACH GARDENS, FL 33418		ALTOONA, PA 16602		
PHONE: 561-744-3424		814-949-2770		
PLOT: 1=18		CHECKED BY: W.W.S.		
DATE: 10/31/11		DATE: 10/31/11		
NO.	REVISION	DESCRIPTION	BY	DATE

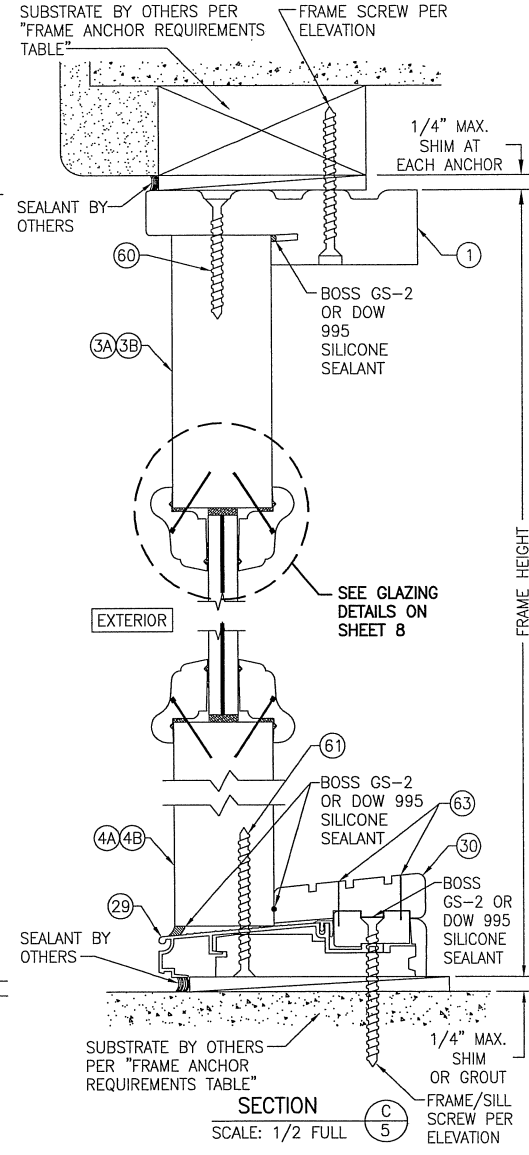




(STANDARD BUMPER THRESHOLD CONDITION SHOWN. SEE OTHER DETAILS ON SHEET 7 FOR ADA & OTHER BUMPER THRESHOLD OPTION.)



(FOR DETAIL NOT SHOWN, SEE SECTION A/5)



FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 7 FOR DIRECT MOUNT & MOUNTING CLIP DETAILS.

DRAWING NO. 1778		REV. A
SHEET NO. 5		OF 10

W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)

7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

8 FOOT WOOD OUTSWING IMPACT DOORS

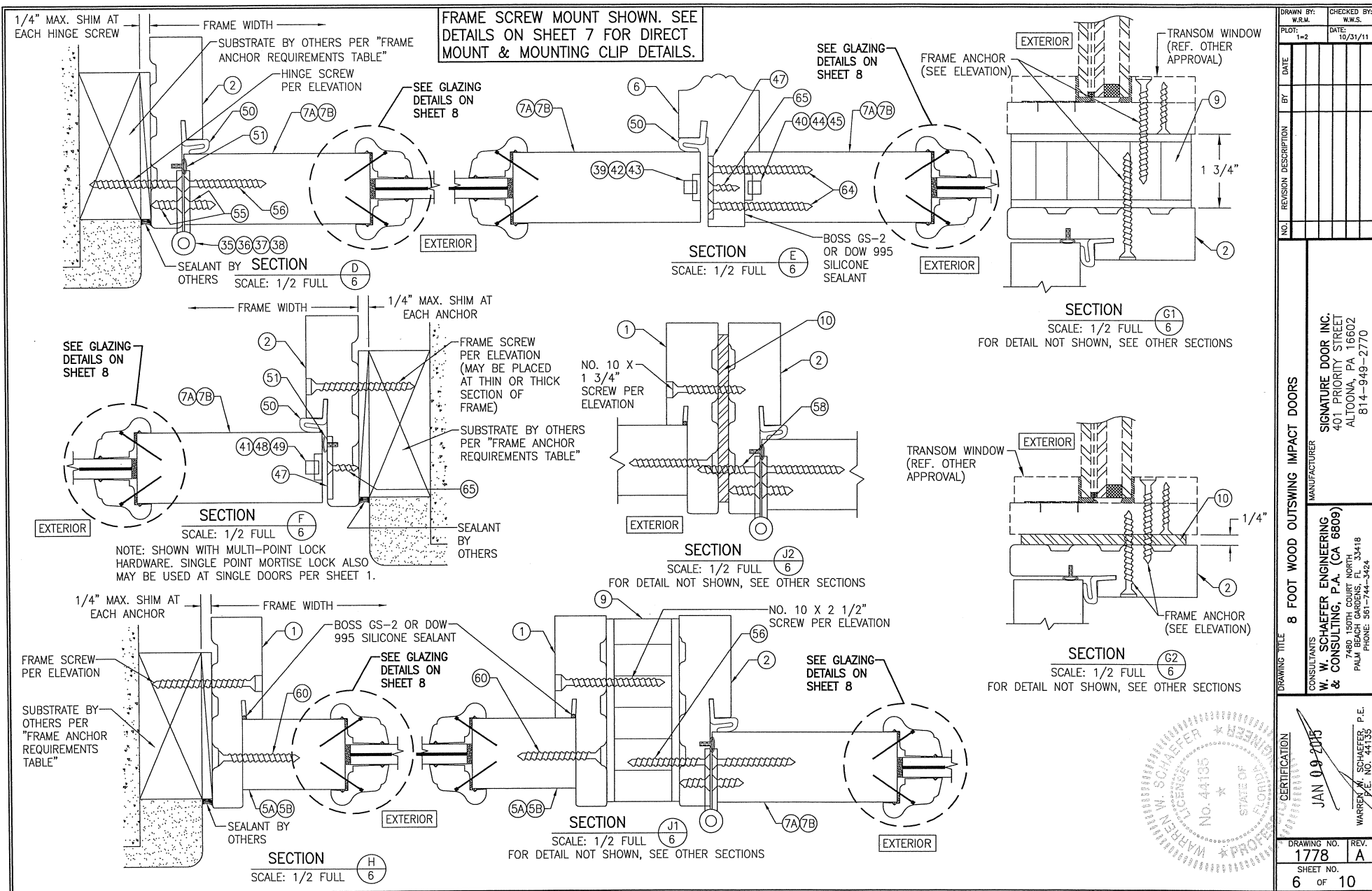
MANUFACTURER
SIGNATURE DOOR INC.
401 PRIORITY STREET
ALTOONA, PA 16602
814-949-2770

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)

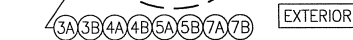
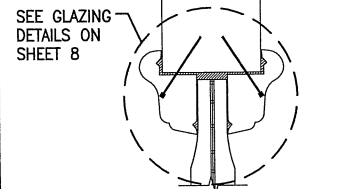
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

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

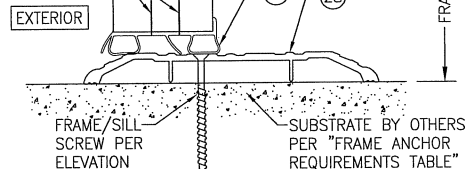
STATE OF FLORIDA
No. 44135
W. W. SCHAEFER
JAN 09 2015



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/31/11	
DATE	BY	REVISION	DESCRIPTION
NO.			
DRAWING TITLE: 8 FOOT WOOD OUTSWING IMPACT DOORS			
MANUFACTURER: SIGNATURE DOOR INC. 401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7440 SOUTH GOURT ROAD, SUITE 30418 PAUL, MISSISSIPPI 39448 PHONE: 561-744-3424			
CERTIFICATION: JAN 09 2015 WARREN W. SCHAEFER, P.E. No. 44135			
DRAWING NO. 1778		REV. A	
SHEET NO. 6		OF 10	

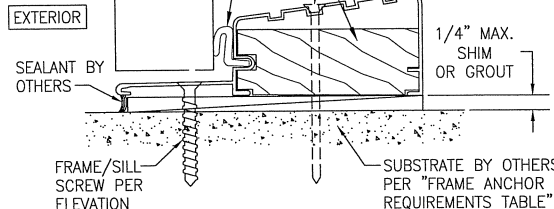


SECTION L
7
SCALE: 1/2" = 1' FULL

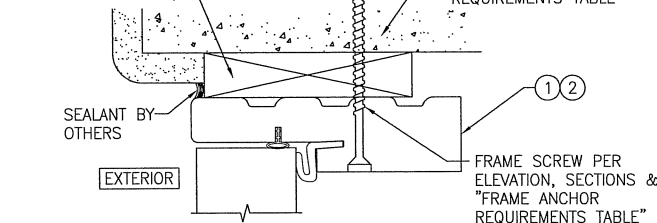


OPTIONAL ADA THRESHOLD DETAIL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS

NOTE: WHEN THE ADA THRESHOLD IS USED, THE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR UNLESS THE UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION OR THE UNITS ARE INSTALLED AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE—BY THE OVERHANG(H) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

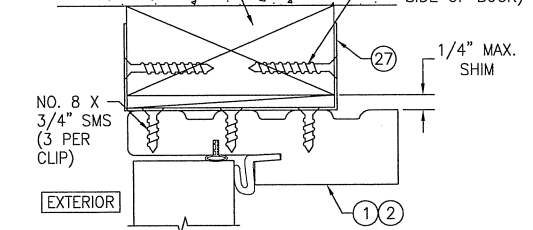


OPTIONAL BUMPER THRESHOLD DETAIL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS



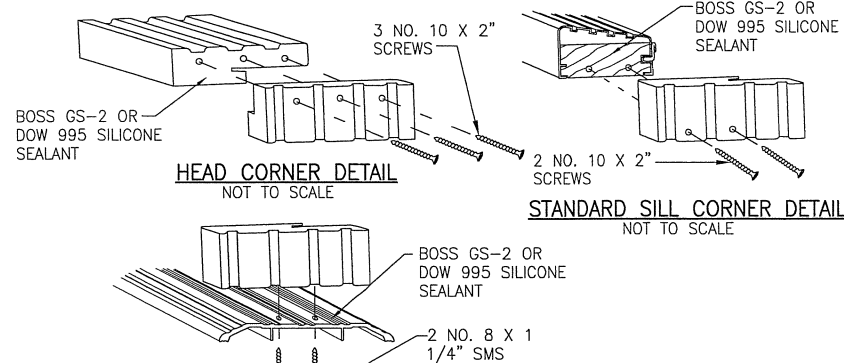
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

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

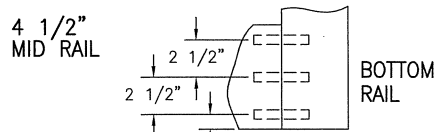
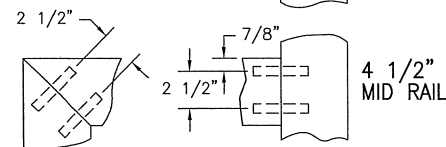
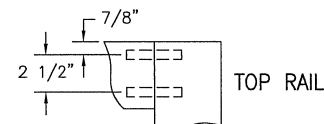
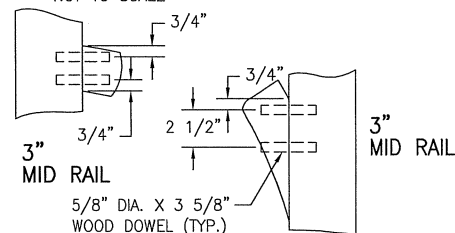


OPTIONAL CLIP MOUNT DETAIL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS
(HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)



ADA SILL CORNER DETAIL
NOT TO SCALE



PANEL CORNER DETAILS

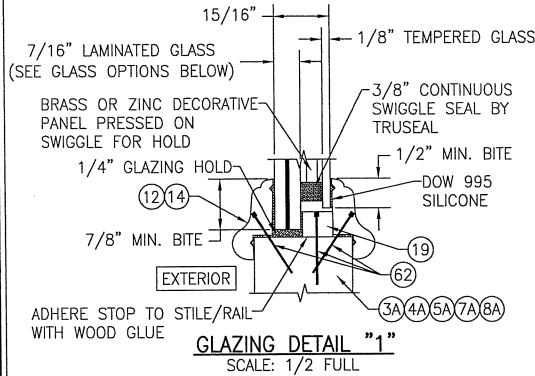
NOT TO SCALE
ALL DOWEL AND WOOD TO WOOD CONTACT
SURFACES ARE FULLY GLUED WITH WOOD
ADHESIVE BY JOWAT ADHESIVES, KORLOCK GT
42-300A OR TITEBOND II BY WEATHERPROOF.

[illegible]

**ALLOWABLE DESIGN
PRESSURE
(ALL GLASS OPTIONS)**

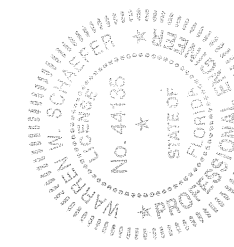
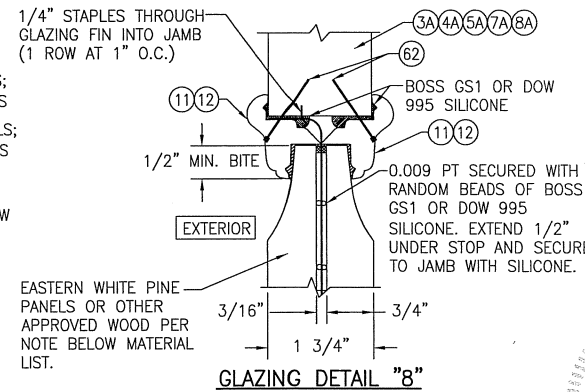
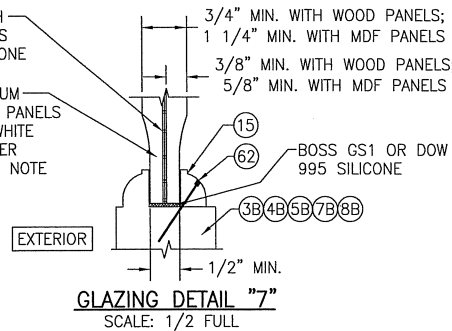
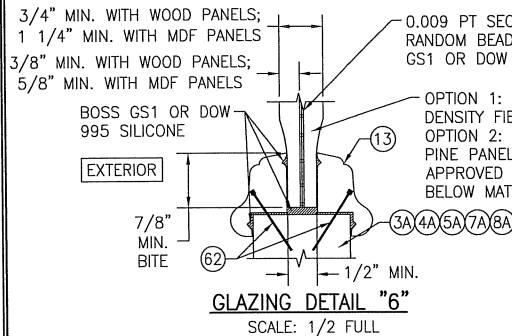
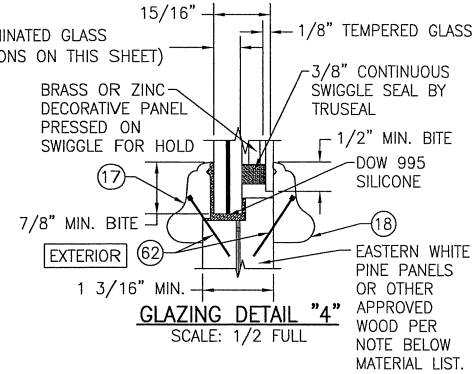
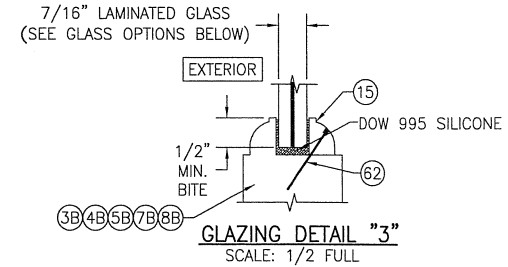
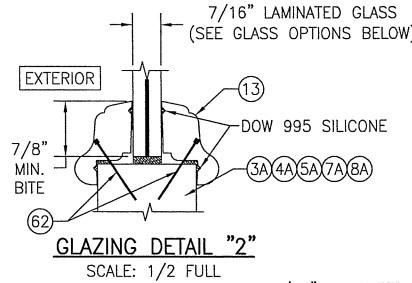
(1)(2) +65/-80 PSF
(ALL DOOR SIZES)

(1) POSITIVE PRESSURE NOTE:
DOORS ARE APPROVED FOR WATER
INFILTRATION RESISTANCE WHEN THE
BUMPER THRESHOLDS (ITEMS 29 &
31) ARE USED. WHEN THE "ADA"
THRESHOLD IS USED, THESE DOORS
ARE NOT APPROVED FOR WATER
INFILTRATION RESISTANCE UNLESS
THE UNITS ARE INSTALLED IN A
NON-HABITABLE AREA WHERE THE
UNIT AND THE AREA ARE DESIGNED
TO ACCEPT WATER INFILTRATION.
OTHERWISE, THE DOORS MUST BE
INSTALLED ONLY AT LOCATIONS
PROTECTED BY A CANOPY OR
OVERHANG SUCH THAT THE ANGLE
BETWEEN THE EDGE OF THE CANOPY
OR OVERHANG TO SILL IS LESS THAN
45 DEGREES.
(2) WHEN A SINGLE POINT MORTISE
LOCK IS USED, THE ALLOWABLE
DESIGN PRESSURE SHALL BE LIMITED
TO THE LESSER OF +/-60 PSF OR
THE APPLICABLE LOAD IN THE LOAD
TABLE.

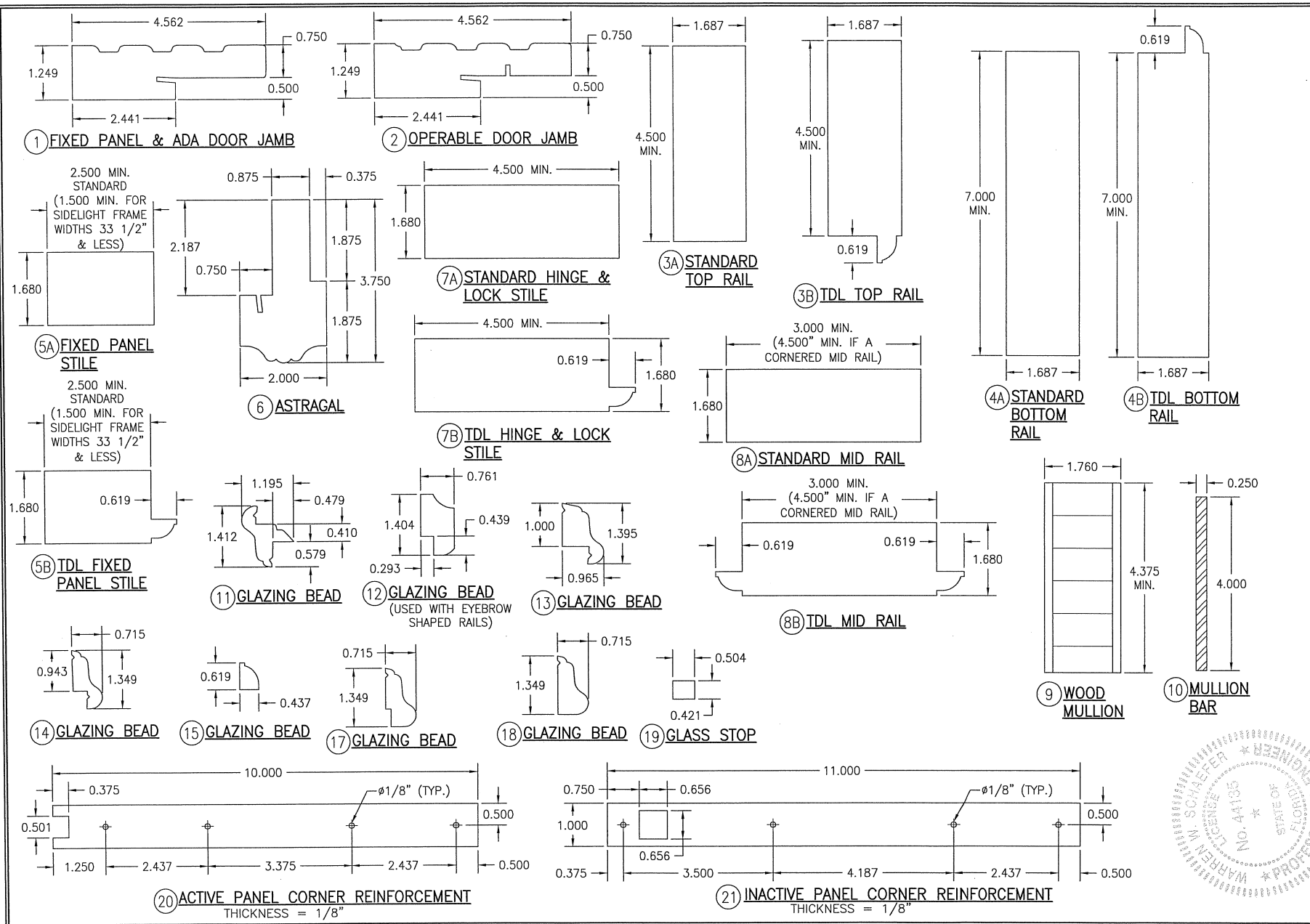


LAMINATED GLASS OPTIONS

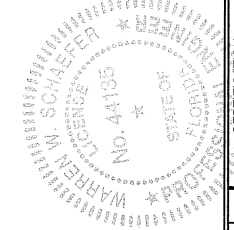
- OPTION 1: 7/16" THICK GLASSLAM SAFETY PLUS II LAMINATED GLASS (3/16" AN/0.1" POLYURETHANE POLYMER/3/16" AN)
OPTION 2: 7/16" THICK LAMINATED GLASS (3/16" AN/0.075" EASTMAN CHEM. CO. SAFLEX CP/3/16" AN)
OPTION 3: 7/16" THICK LAMINATED GLASS (3/16" AN/0.09" DUPONT SG/3/16" AN)



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 10/31/11
DATE	BY
REVISION	DESCRIPTION
NO.	
DRAWING TITLE 8 FOOT WOOD OUTSWING IMPACT DOORS	
MANUFACTURER SIGNATURE DOOR INC. 401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	JAN 09 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1778	REV. A
SHEET NO. 8	OF 10



DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	10/31/11
NO.	REVISION	DESCRIPTION	BY
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DRAWING TITLE: 8 FOOT WOOD OUTSWING IMPACT DOORS

MANUFACTURER: SIGNATURE DOOR INC.
401 PRIORITY STREET
ALTOONA, PA 16602
814-949-2770

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

CERTIFICATION: JAN 09 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1778
SHEET NO. 9 OF 10

