

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 HERE-IN 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"

INTERIOR ELEVATION DOUBLE INSWING 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	

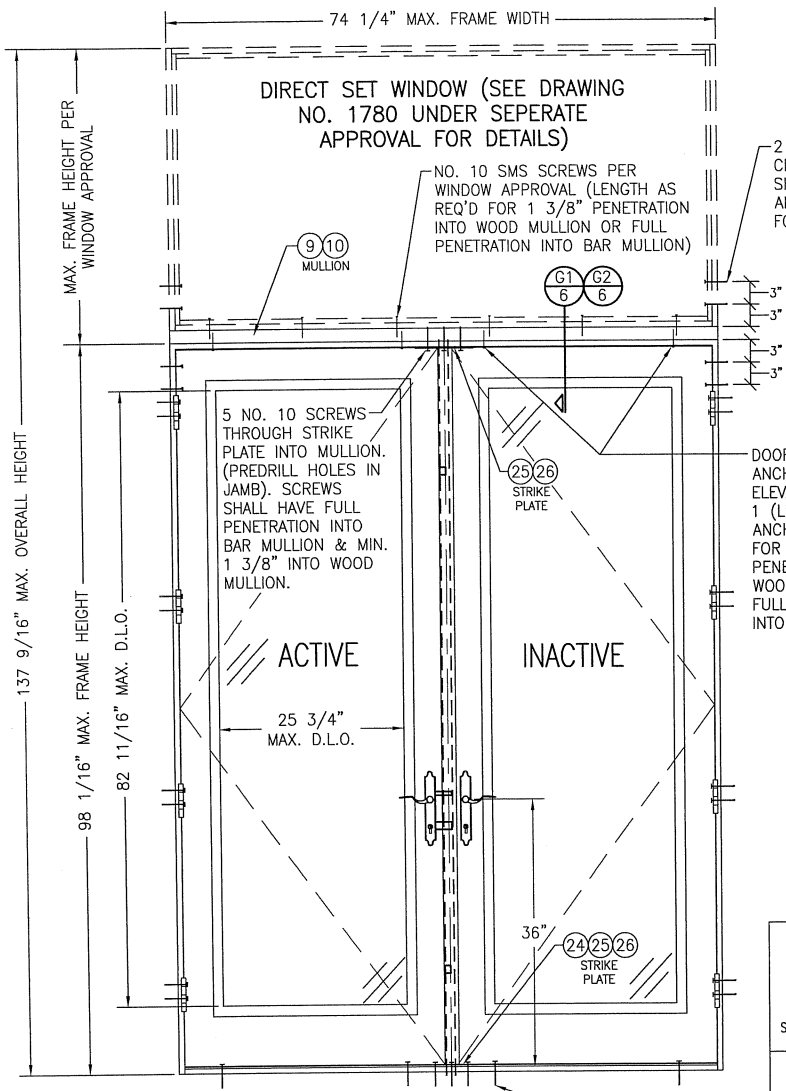
INTERIOR ELEVATION SINGLE INSWING DOOR

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.

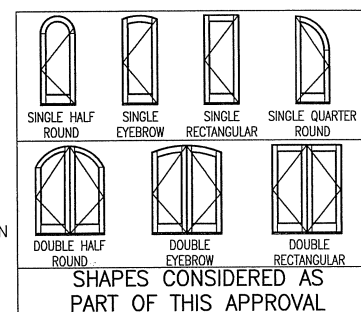
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER LISTED ON THESE DRAWINGS.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 10/31/11	
DATE	BY	W.S.	
01/09/15			
REVISION	DESCRIPTION	NO.	
1	UPDATE TO CURRENT STANDARDS	AT	
8 FOOT WOOD INSWING 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: 381-1747-3424			
CERTIFICATION		DRAWING NO. 1779	
JAN 09 2015		REV. A	
W. W. SCHAEFER, P.E.		SHEET NO. 1 OF 10	



**INTERIOR ELEVATION
DOUBLE DOOR WITH TRANSOM**
SCALE: 3/4"=1'-0"

SEE DOUBLE DOOR ELEVATION ON SHEET 1 FOR DETAIL NOT SHOWN

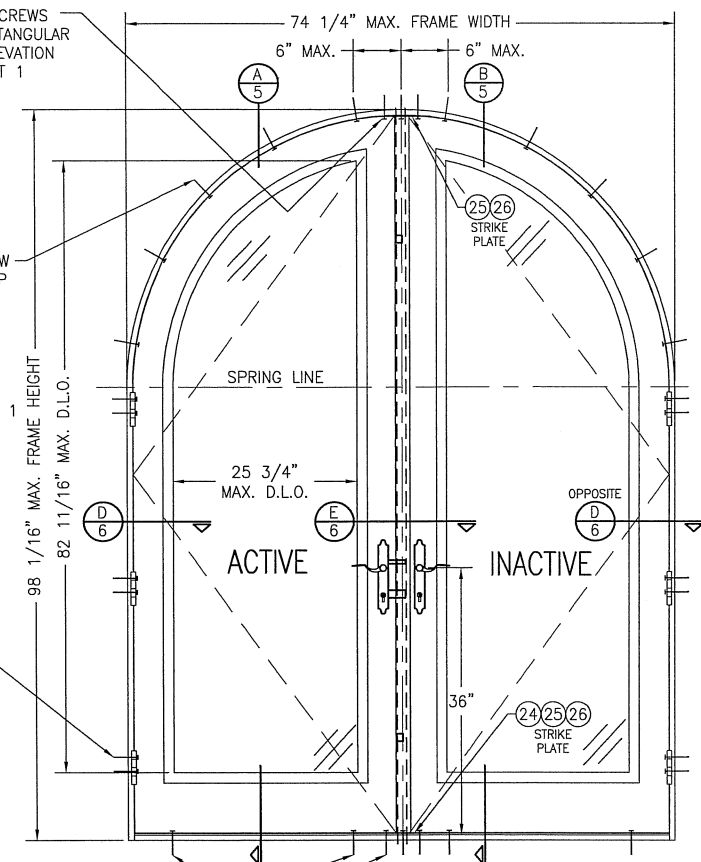


2 FRAME SCREWS OR MOUNTING CLIPS EA. SIDE OF MULLION AS SHOWN (TYP. EA. END). SEE ANCHOR REQ. TABLE ON SHEET 1 FOR SCREW REQUIREMENTS.

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.

STRIKE SCREWS PER RECTANGULAR DOOR ELEVATION ON SHEET 1

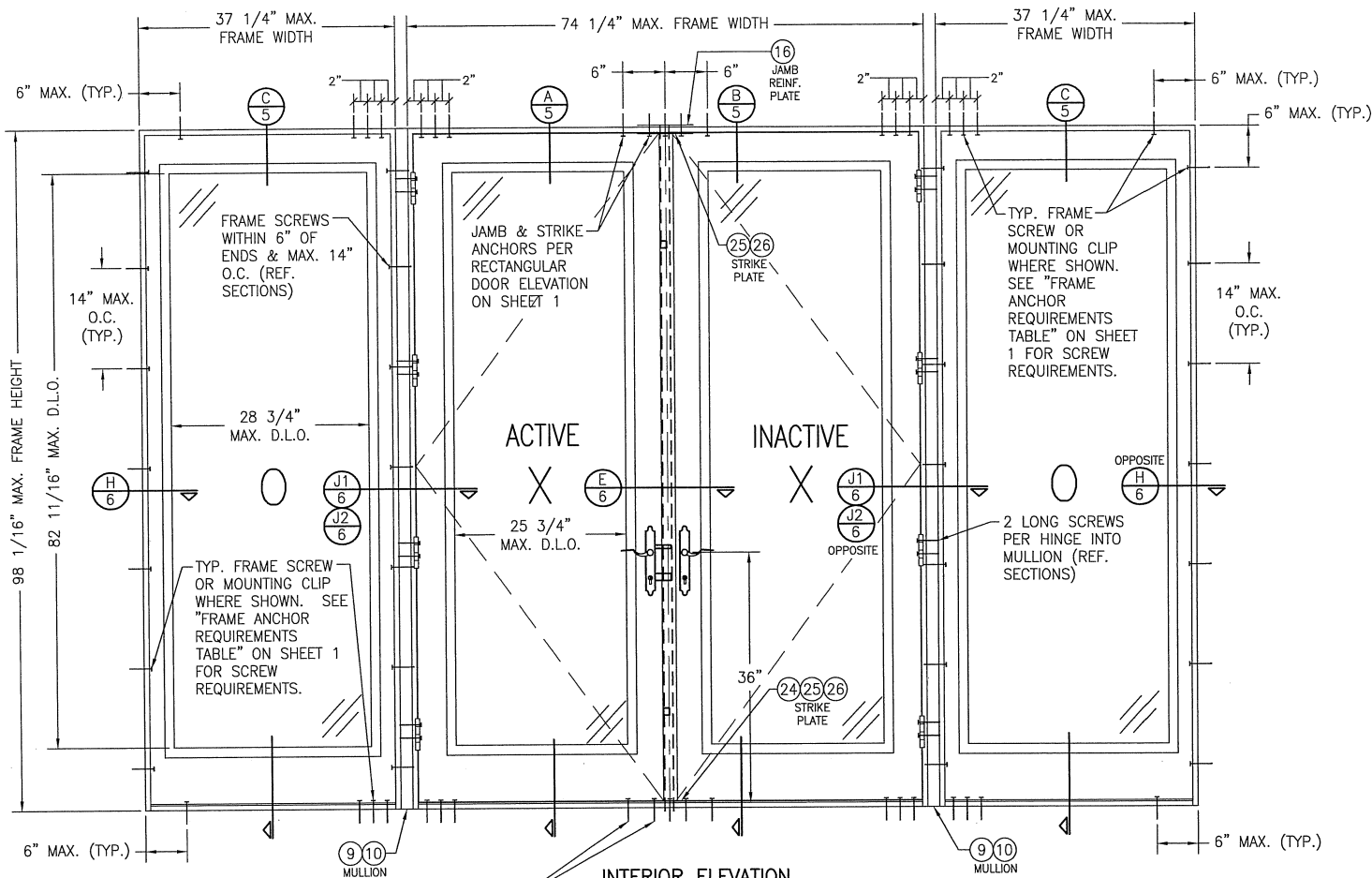


**INTERIOR ELEVATION
DOUBLE HALF ROUND DOOR**
SCALE: 3/4"=1'-0"

SEE DOUBLE DOOR ELEVATION ON SHEET 1 FOR DETAIL NOT SHOWN

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

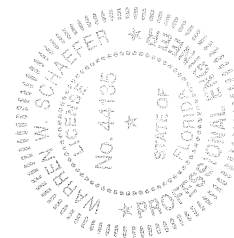
DRAWN BY: W.R.M.		CHECKED BY: W.B.S.	
PLOT: 1-15		DATE: 10/31/11	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE: 8 FOOT WOOD INSWING IMPACT DOORS			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		SIGNATURE DOOR INC.	
1405 SOUTH GARY STREET PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770	
CERTIFICATION		DATE	
No. 44135		JAN 09 2015	
W. W. SCHAEFER, P.E.		W. W. SCHAEFER, P.E.	
DRAWING NO. 1779		REV. A	
SHEET NO. 2		OF 10	



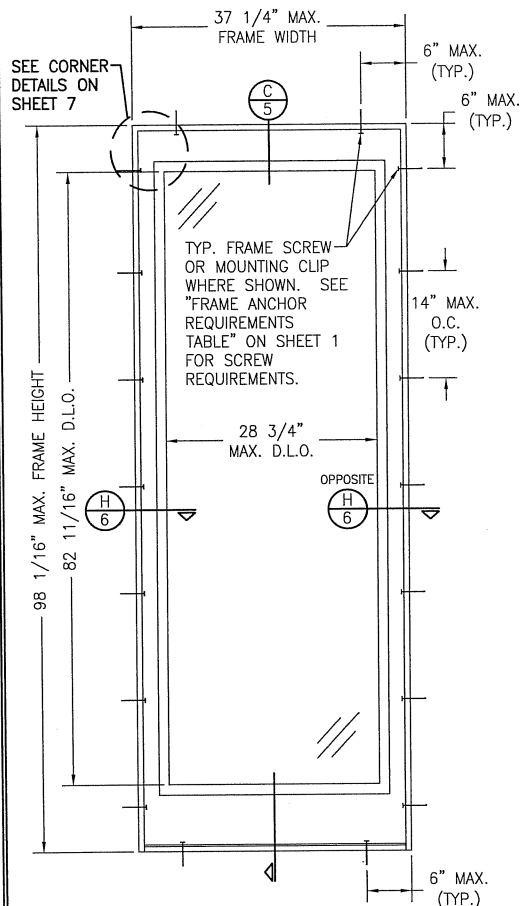
SILL AND STRIKE
PLATE ANCHORS
PER ELEVATION ON
SHEET 1

**INTERIOR ELEVATION
MULTIPLE OPERABLE/FIXED UNIT**
SCALE: 3/4"=1'-0"
(FOR ANY DETAIL NOT SHOWN, SEE ELEVATION ON SHEET 1)
NOTE: OXOX DOOR SHOWN. ALL OTHER 4-PANEL CONFIGURATIONS
OF SINGLE/DOUBLE DOORS & SIDELIGHTS ALSO APPLY.

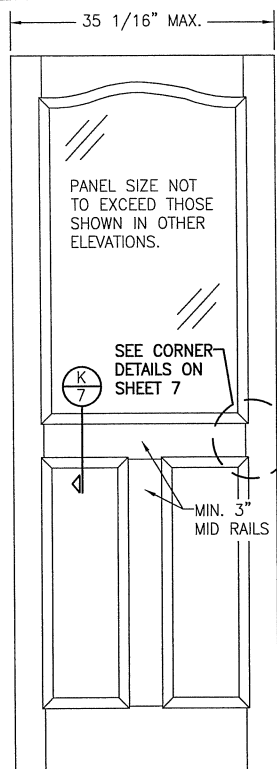
NOTE: DOORS MAY BE FULLY
GLAZED AS SHOWN, PARTIALLY
PANELED OR FULLY PANELED.
SEE SHEET 4 ELEVATION FOR
PANELED DOORS.



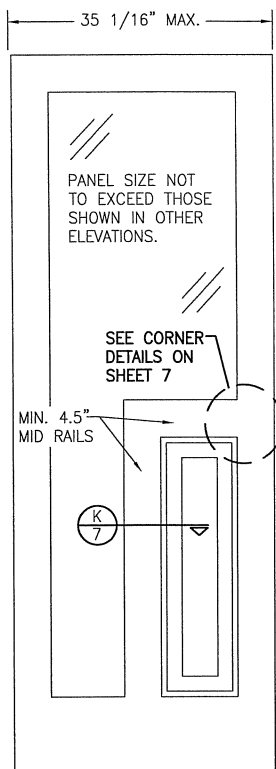
DRAWN BY: W.S.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 10/31/11
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 8 FOOT WOOD INSULVING IMPACT DOORS	MANUFACTURER SIGNATURE DOOR INC. 401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	REVISIONS W. W. SCHAEFER, P.E. P.E. NO. 44135
CERTIFICATION JAN 09 2015	DRAWING NO. 1779 REV. A
	SHEET NO. 3 OF 10



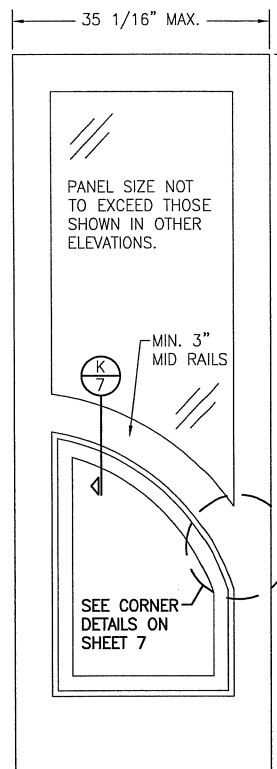
**INTERIOR ELEVATION
SINGLE FIXED PANEL**
SCALE: 3/4"=1'-0"



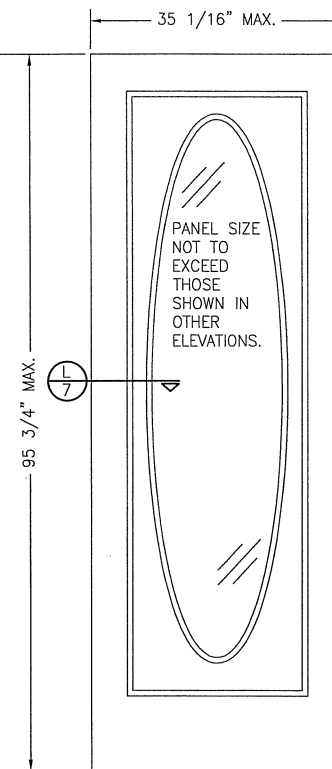
**INTERIOR ELEVATION SOLID
RAISED PANEL WITH
STANDARD MID RAILS**
SCALE: 3/4"=1'-0"



**INTERIOR ELEVATION SOLID
RAISED PANEL WITH
CORNERED MID RAILS**
SCALE: 3/4"=1'-0"



**INTERIOR ELEVATION
SOLID RAISED PANEL WITH
ARCHED/SHAPED MID RAILS**
SCALE: 3/4"=1'-0"

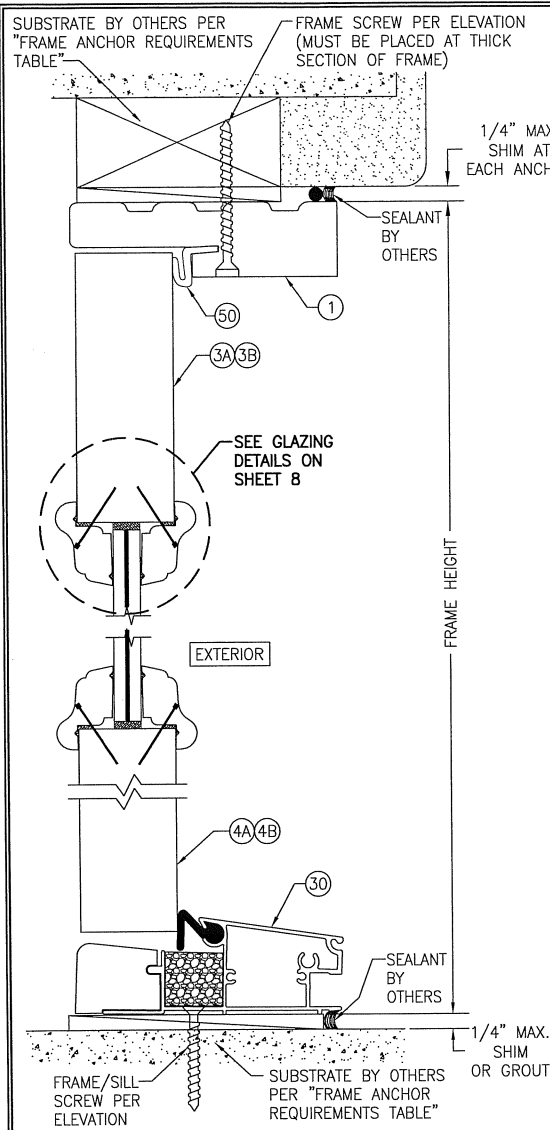


**INTERIOR ELEVATION
RAISED PANEL WITH GLASS
GLAZED TO PANEL**
SCALE: 3/4"=1'-0"

- 1) TOP & MID RAILS MAY BE OF ANY CONFIGURATION PROVIDING THE SMALLEST CROSS SECTION OF RAILS IS EQUAL TO OR LARGER THAN THAT DETAILED IN DRAWINGS.
- 2) MULTIPLE MID RAIL (BOTH HORIZONTAL & VERTICAL) MAY BE USED WITH THESE PANELS.
- 3) PARTIAL PANEL CONDITION IS SHOWN ABOVE. FULL PANEL DOORS AND OTHER PANEL CONFIGURATIONS ARE ALSO PART OF THIS APPROVAL AND ARE SIMILAR IN CONSTRUCTION TO THAT SHOWN ABOVE.
- 4) PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.

- 1) DAY LIGHT OPENING IN PANEL DOOR MAY BE OF ANY CONFIGURATION.
- 2) FULL LIGHT & OVAL CONDITION IS SHOWN. PARTIAL LIGHT & OTHER LIGHT CONFIGURATIONS ARE ALSO APPLICABLE PROVIDING PANEL CONDITIONS ARE WITHIN WHAT IS SPECIFIED IN THESE DRAWINGS.
- 3) PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.

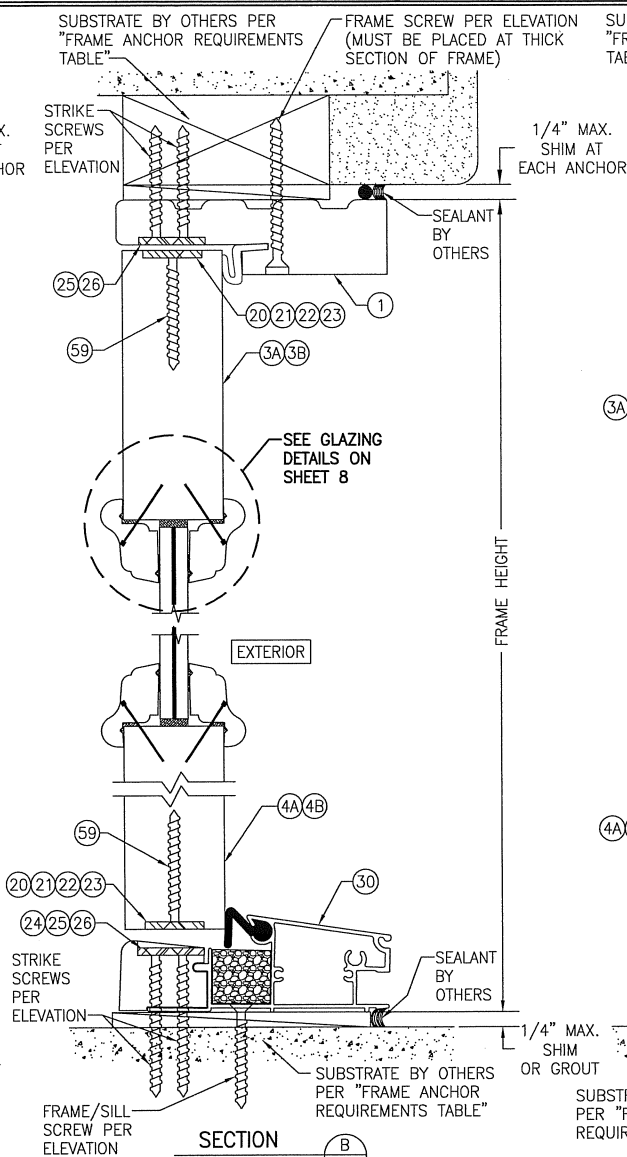
DRAWN BY: W.S.A.		CHECKED BY: W.S.A.	
PLOT: 1=16		DATE: 10/31/11	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE 8 FOOT WOOD INSWING IMPACT DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER SIGNATURE DOOR INC. 401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770	
7480 150TH COURT NORTH PALM BEACH, FL 33418 PHONE: 561-744-3423			
CERTIFICATION JAN 09 2015 W. W. SCHAEFER, P.E. P.E. NO. 44155			
DRAWING NO. 1779		REV. A	
SHEET NO. 4 OF 10			



SECTION A

SCALE: 1/2 FULL (5)

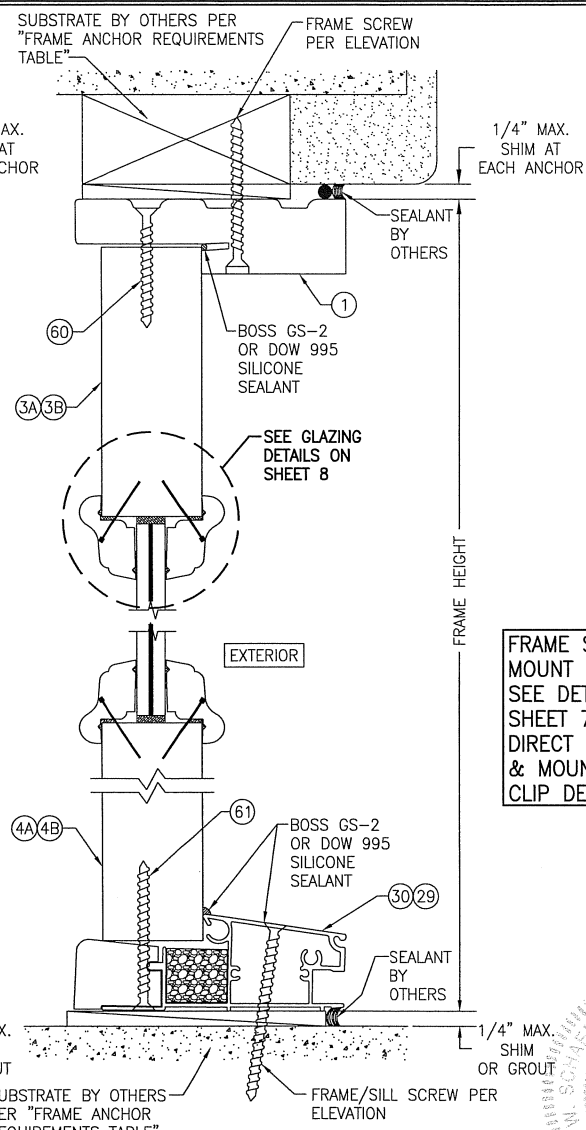
(STANDARD BUMPER THRESHOLD CONDITION SHOWN. SEE OTHER DETAILS ON SHEET 7 FOR ADA & OTHER BUMPER THRESHOLD OPTION.)



SECTION B

SCALE: 1/2 FULL (5)

(FOR DETAIL NOT SHOWN, SEE SECTION A/5) (STANDARD BUMPER THRESHOLD CONDITION SHOWN. SEE OTHER DETAILS ON SHEET 7 FOR ADA & OTHER BUMPER THRESHOLD OPTION.)

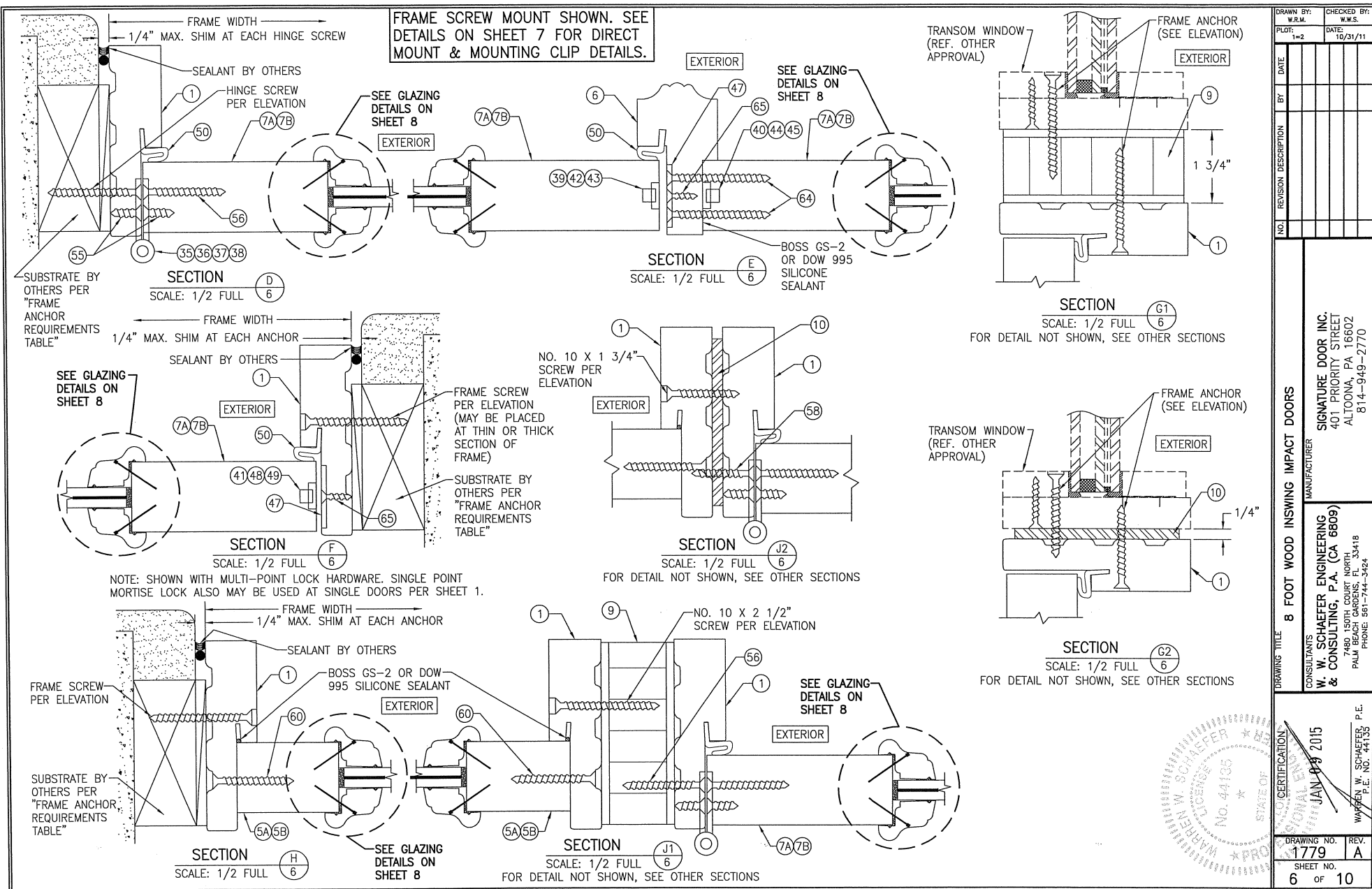


SECTION C

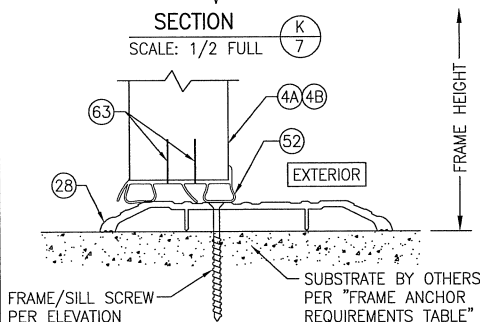
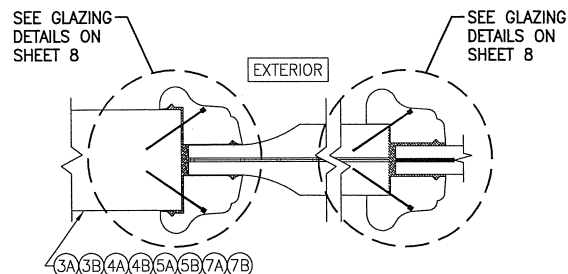
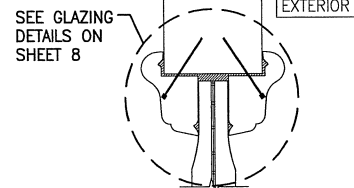
SCALE: 1/2 FULL (5)

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

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/31/11	
DATE	BY	REVISION	DESCRIPTION
NO. 1			
DRAWING TITLE: 8 FOOT WOOD INSULVING 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: 301-747-3424			
CERTIFICATION: JAN 09 2015		W. W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1779		REV. A	
SHEET NO. 5		OF 10	



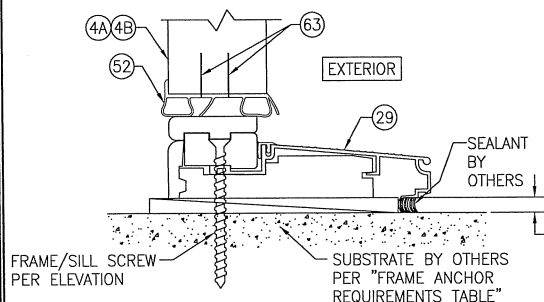
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 10/31/11
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE	8 FOOT WOOD INSWING IMPACT DOORS
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	SIGNATURE DOOR INC. 401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770
7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	
JAN 09 2015	
WARREN W. SCHAEFER, P.E.	
DRAWING NO. 1779	REV. A
SHEET NO. 6	OF 10



OPTIONAL ADA THRESHOLD DETAIL

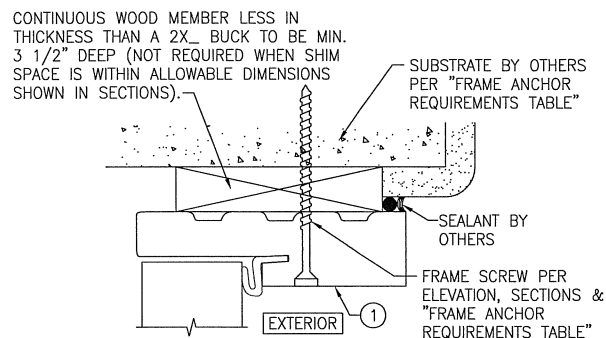
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS

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(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.



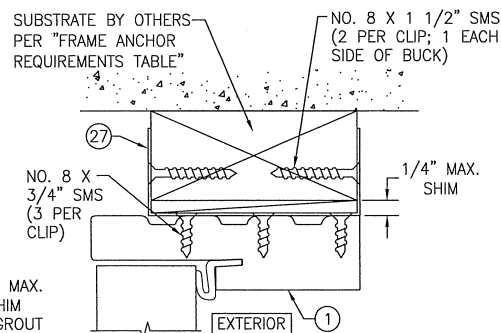
OPTIONAL BUMPER THRESHOLD DETAIL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS



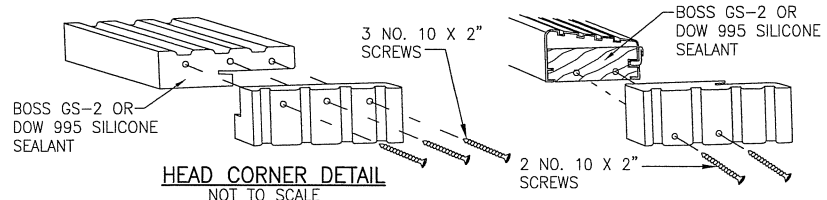
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

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



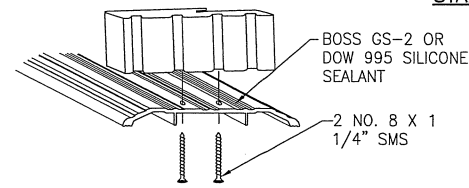
OPTIONAL CLIP MOUNT DETAIL

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



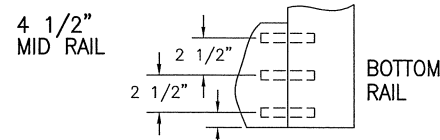
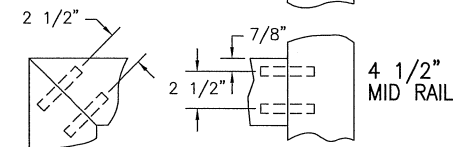
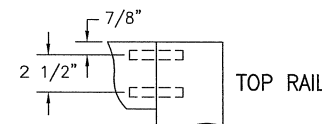
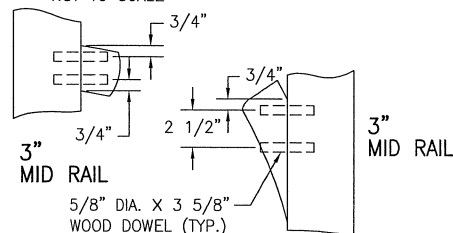
HEAD CORNER DETAIL

NOT TO SCALE



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.

DRAWING NO.		REV.	
1779		A	
SHEET NO.		7 OF 10	
<div style="display: flex; justify-content: space-between;"> <div> <p>CERTIFICATION</p> <p><i>[Signature]</i></p> <p>JAN 09 2015</p> <p>WARREN W. SCHAEFER, P.E.</p> </div> <div> <p>CONSULTANTS</p> <p>W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)</p> <p>7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418</p> </div> <div> <p>MANUFACTURER</p> <p>SIGNATURE DOOR INC.</p> <p>401 PRIORITY STREET ALTOONA, PA 16602 814-949-2770</p> </div> </div>			
DRAWING TITLE			
8 FOOT WOOD INSWING IMPACT DOORS			
NO.		REVISION DESCRIPTION	
BY		DATE	
PLOT:		DRAWN BY:	
1=2		W.R.M.	
DATE:		CHECKED BY:	
10/31/11		W.S.S.	

