

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.

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.

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

(3) OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
(3) MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 16 GA. 50 KSI METAL STUD	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"

INSTALLATION CLIP SCREWS

(2) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS SCREW	1 3/8"	3/4"
MIN. 16 GA. 50 KSI METAL STUD	NO. 14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) 2X6 BUCKS MAY BE RIPPED DOWN TO AS LITTLE AS 4" PROVIDING THE REQUIRED SCREW EDGE DISTANCE IS HELD & THE BUCK EXTENDS TO WITHIN 3/16" OF THE EXTERIOR EDGE OF THE WINDOW FRAME.
- (3) SUBSTRATE BENEATH DOOR THRESHOLDS SHALL BE OF A DEPTH EQUAL TO OR GREATER THAN THE THRESHOLD DEPTH (MIN. 4 3/4").

NOTE: WHEN MEETING STILE ASTRAGAL (ITEM #22) IS NOT USED, THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

FRAME SCREWS WHERE SHOWN AT SILL. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

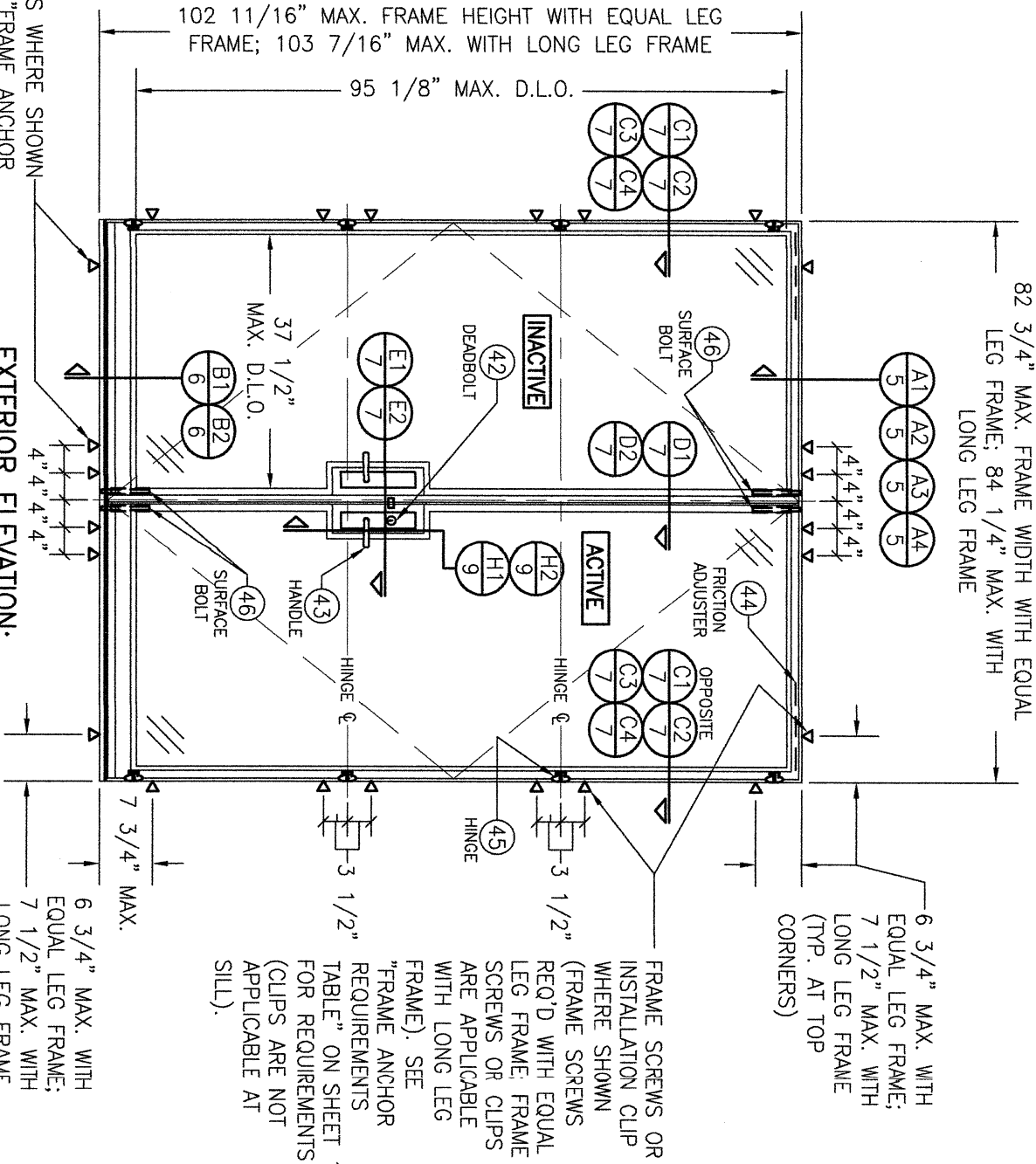
CORNER CONSTRUCTION:
FRAME & PANELS: MITER CUT, BUTTED AND FULLY WELDED.
MID-RAIL ENDS: MID-RAIL ENDS ARE CUT TO FIT, BUTTED TO STILES & FULLY WELDED.

HINGE REQUIREMENTS

WITH EQUAL LEG FRAME
HINGE CENTERS SHALL BE LOCATED APPROXIMATELY 4" FROM TOP & 5" FROM BOTTOM OF FRAME AND SPACED 31 1/4" MAX. O.C. BETWEEN.

WITH LONG LEG FRAME

HINGE CENTERS SHALL BE LOCATED APPROXIMATELY 4 3/4" FROM TOP & 5" FROM BOTTOM OF FRAME AND SPACED 31 1/4" MAX. O.C. BETWEEN.



EXTERIOR ELEVATION:
DOUBLE OUT-SWING DOOR

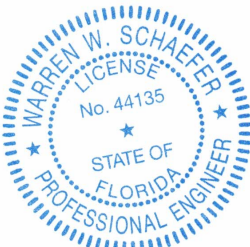
SCALE: 1/2" = 1'-0"

NOTE: LOCKBOX SIZE MAY BE THAT TESTED OR LARGER PROVIDING THE LOCKBOX CONSTRUCTION IS THE SAME AS TESTED.

ALLOWABLE DESIGN PRESSURE

(ALL DOOR UNITS)

+/-55 PSF



Digitally signed by
Warren W Schaefer
Date: 2025.02.24
10:28:50 -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.

NO.	REVISION	DESCRIPTION	BY	DATE	PLOT: 1=24	DRAWN BY: W.R.M.	CHECKED BY: W.M.S.
						DATE: 12/04/13	
C1	ADD	OPTIONAL THRESHOLD	W.W.S.	02/14/25			

DRAWING TITLE LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH JAMESTOWN STILES AND RAILS

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

MANUFACTURER
HOPE'S WINDOWS, INC.
84 HOPKINS AVENUE
JAMESTOWN, NY 14702
(716) 665-5124

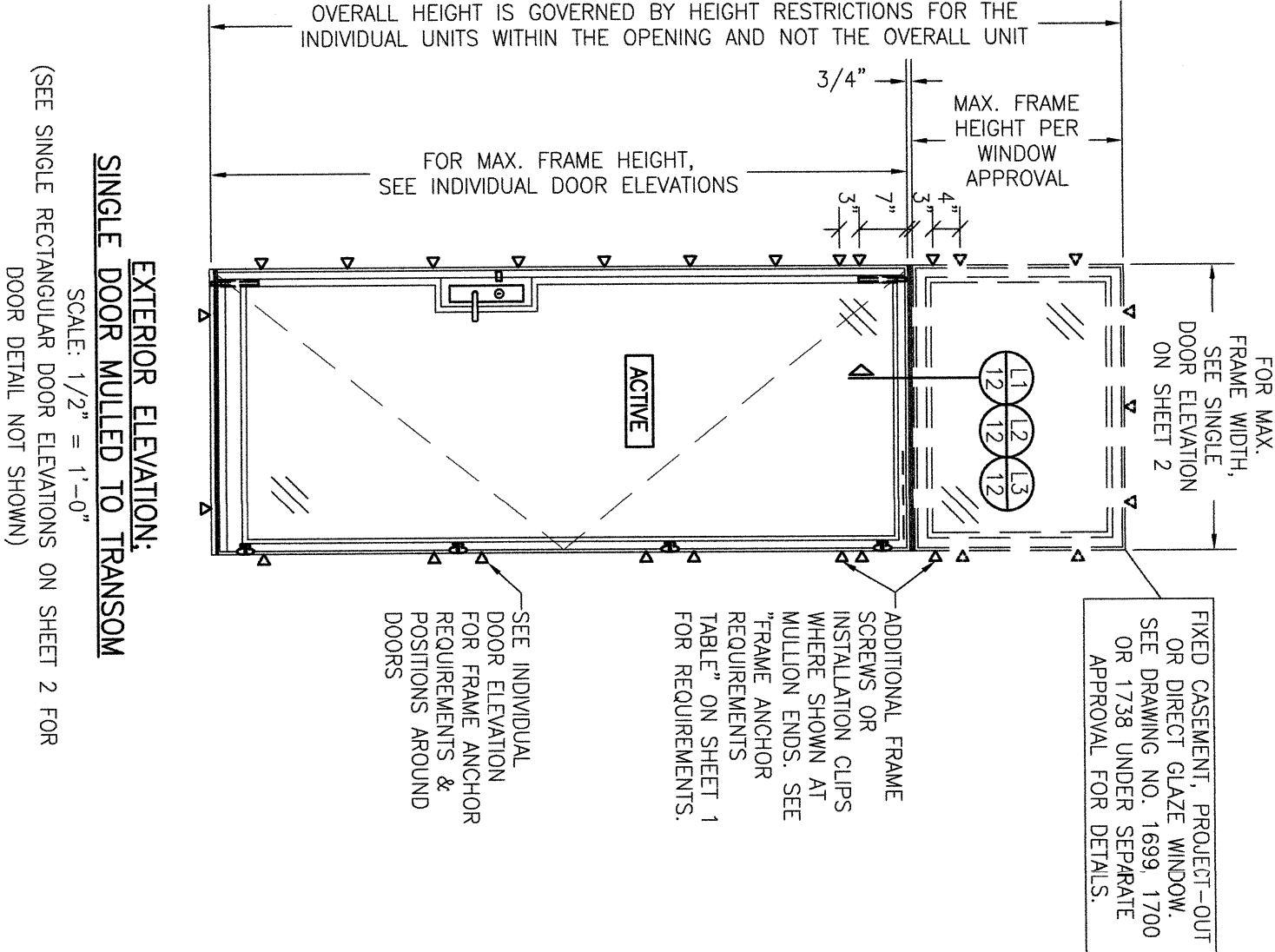
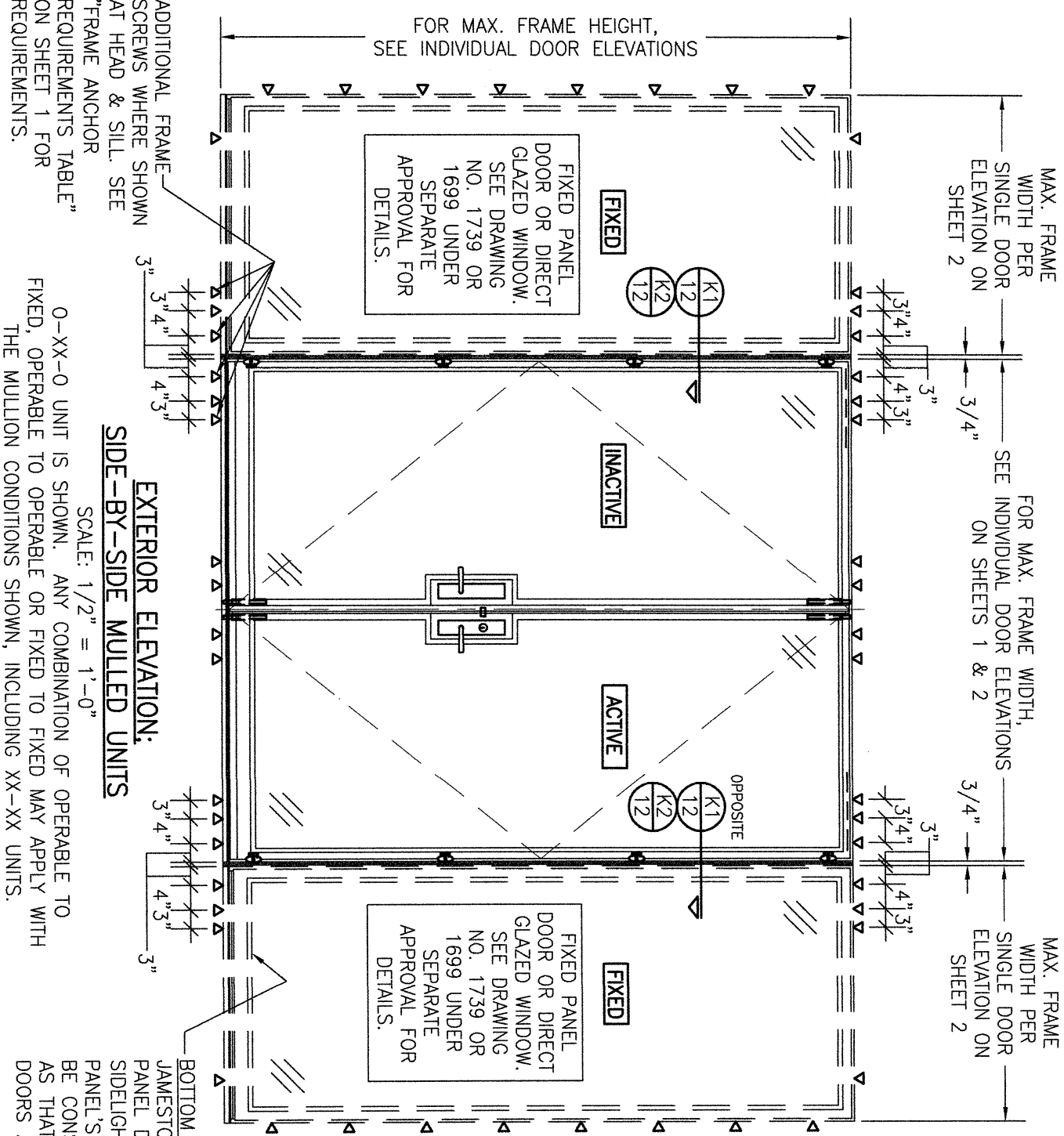
CERTIFICATION

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

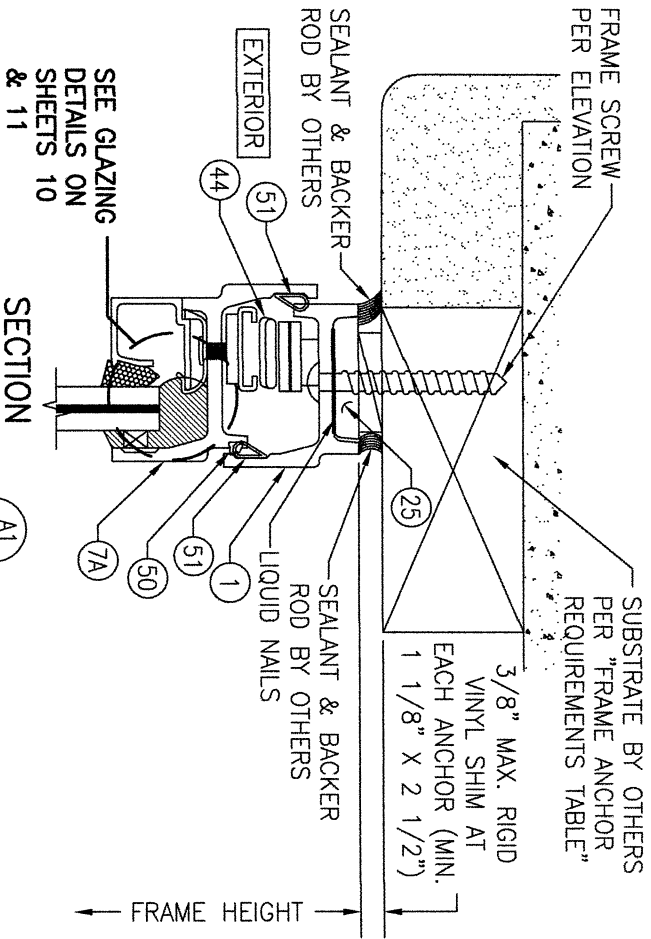
DRAWING NO. 1881B
SHEET NO. A

1 OF 13

- MULTIPLE UNIT NOTES:**
- FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
 - 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 TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
 - ANY COMBINATION OF FIXED/OPERABLE DOORS IN ONE OPENING SHALL APPLY.
 - INDIVIDUAL DOOR/FIXED PANEL SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATIONS.

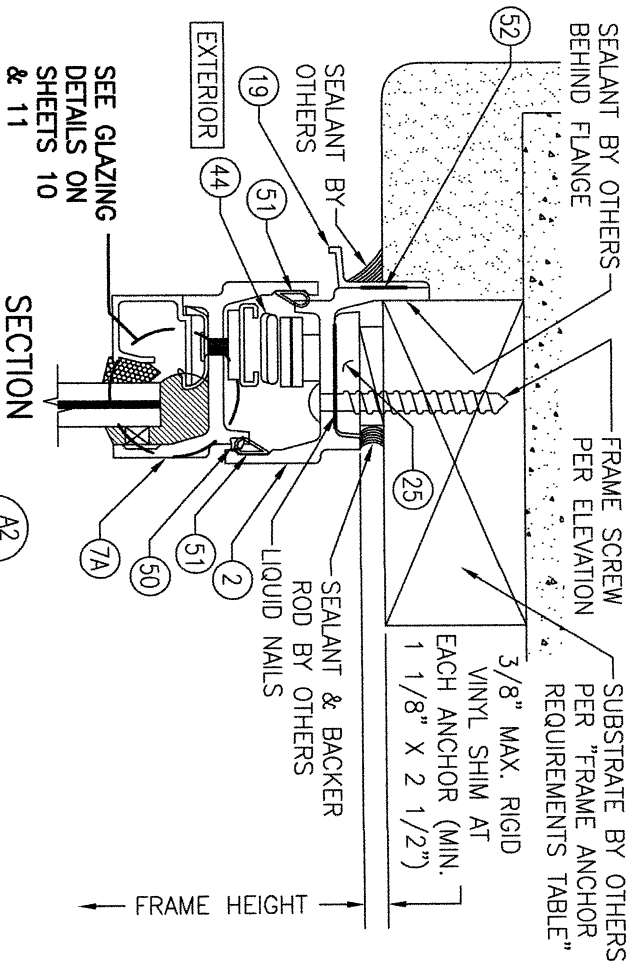


DRAWING NO. 1881B SHEET NO. 3 OF 14	CERTIFICATION <
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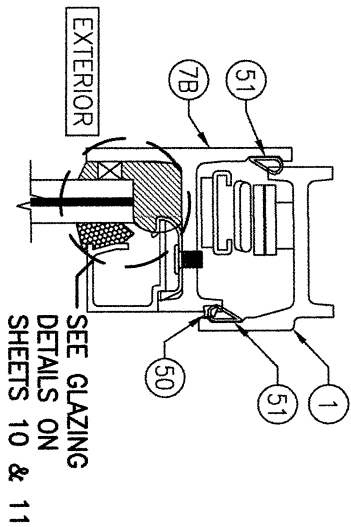
SECTION A1
SCALE: 1/2 FULL
EQUAL LEG FRAME; EXTERIOR
GLAZED CONDITION

FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 9 FOR DIRECT MOUNT DETAIL. CLIP MOUNT IS NOT APPLICABLE WITH EQUAL LEG FRAME.



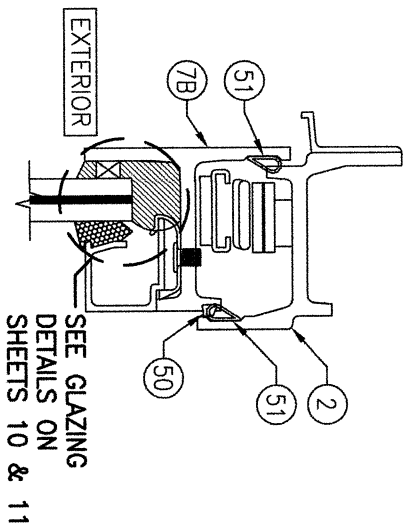
SECTION A2
SCALE: 1/2 FULL
LONG LEG FRAME; EXTERIOR
GLAZED CONDITION

FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 9 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



SECTION A3
SCALE: 1/2 FULL
EQUAL LEG FRAME; INTERIOR
GLAZED CONDITION

(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION A1/5)



SECTION A4
SCALE: 1/2 FULL
LONG LEG FRAME; INTERIOR
GLAZED CONDITION

(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION A2/5)

NO.	REVISION	DESCRIPTION	BY	DATE

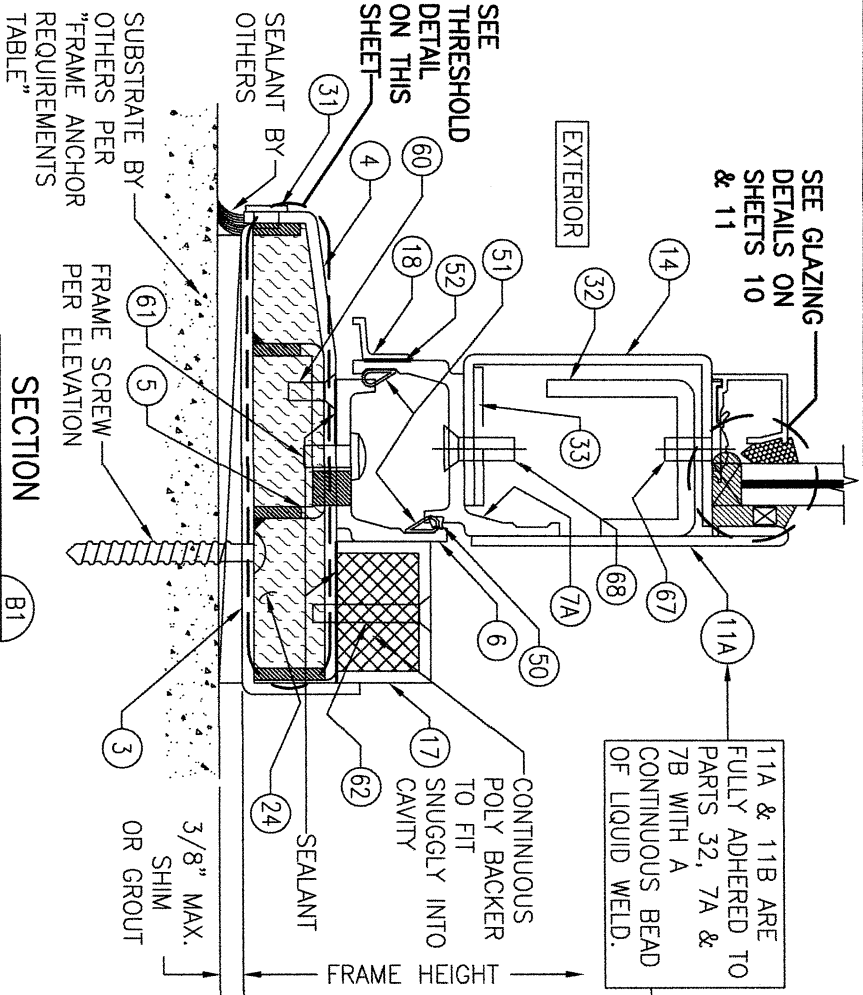
DRAWING TITLE **LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH JAMESTOWN STILES AND RAILS**

CONSULTANTS **W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.**
25601 AYSSEN DRIVE
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

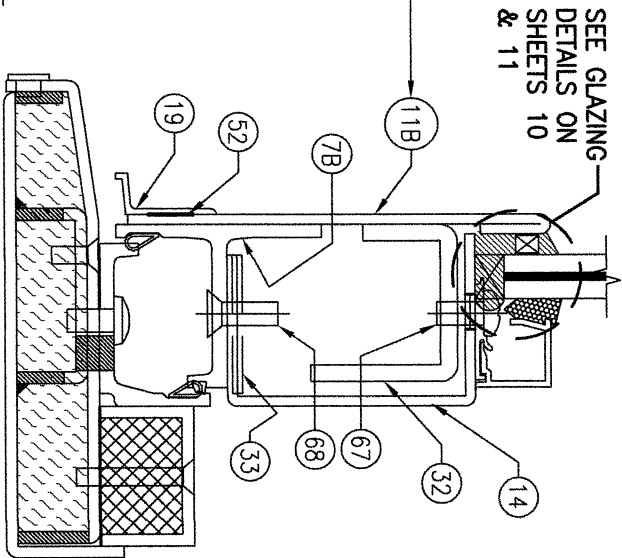
MANUFACTURER **HOPE'S WINDOWS, INC.**
84 HOPKINS AVENUE
JAMESTOWN, NY 14702
(716) 665-5124

CERTIFICATION

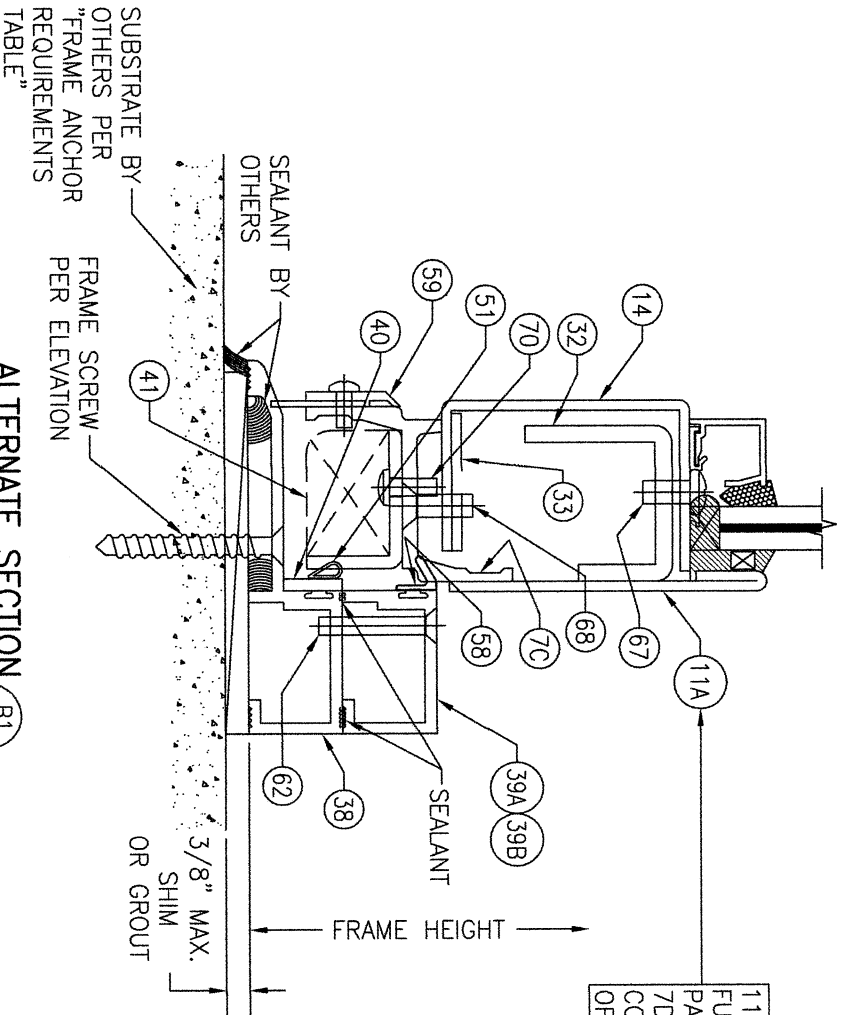
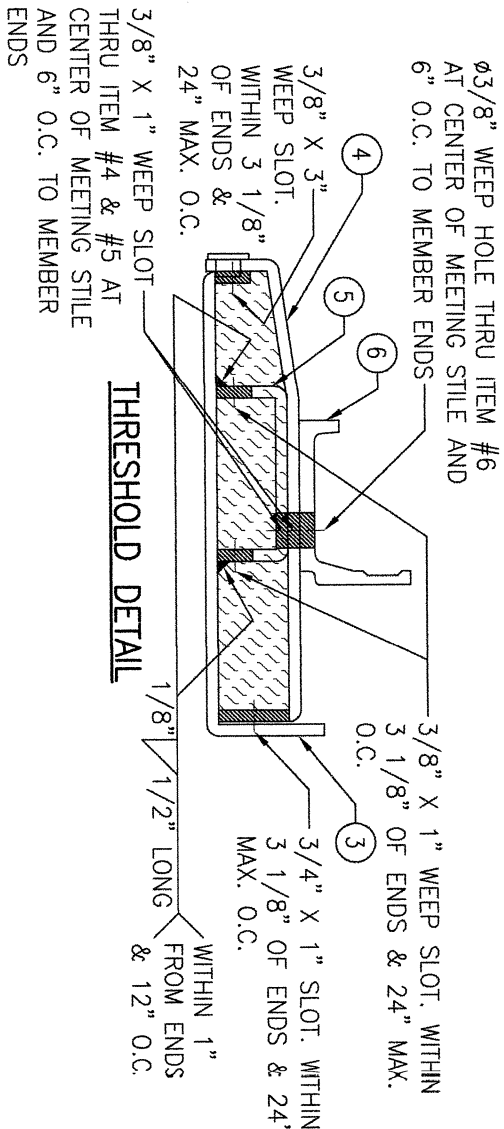
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135



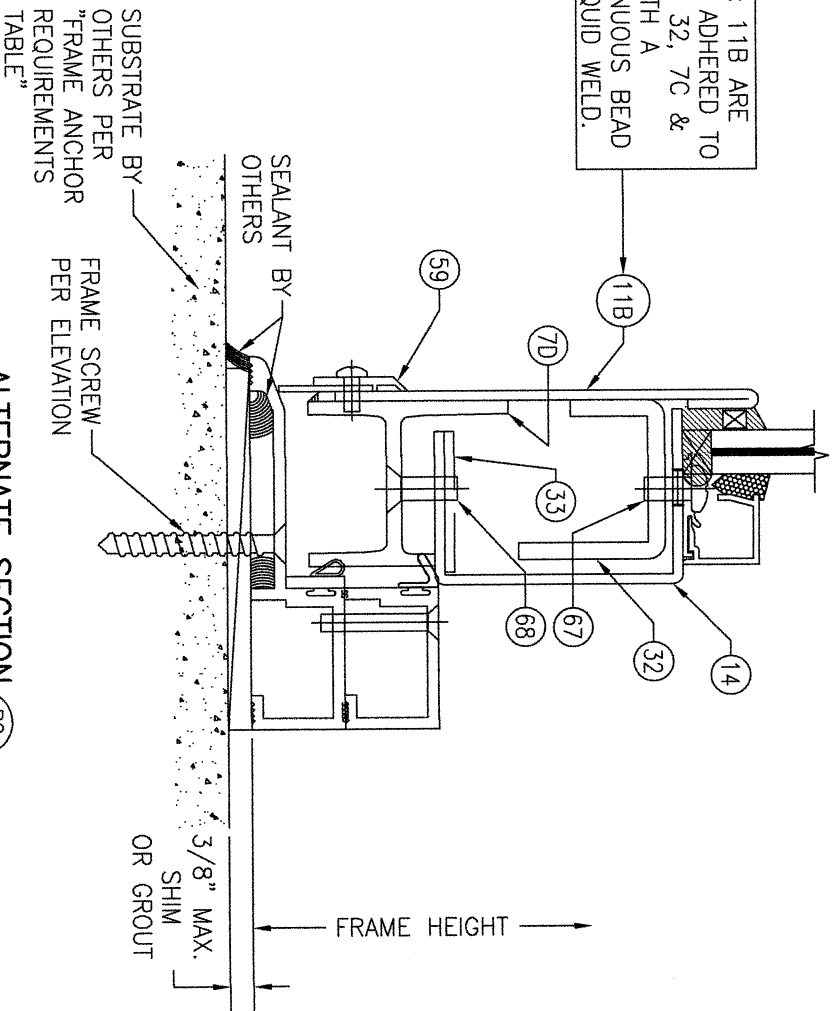
SECTION
SCALE: 1/2 FULL
B1
EXTERIOR GLAZED CONDITION



SECTION
SCALE: 1/2 FULL
B2
INTERIOR GLAZED CONDITION
(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION B1/6)



ALTERNATE SECTION
SCALE: 1/2 FULL
B1
EXTERIOR GLAZED CONDITION



ALTERNATE SECTION
SCALE: 1/2 FULL
B2
INTERIOR GLAZED CONDITION
(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE ALTERNATE SECTION B1/6)

NO.	REVISION	DESCRIPTION	BY	DATE

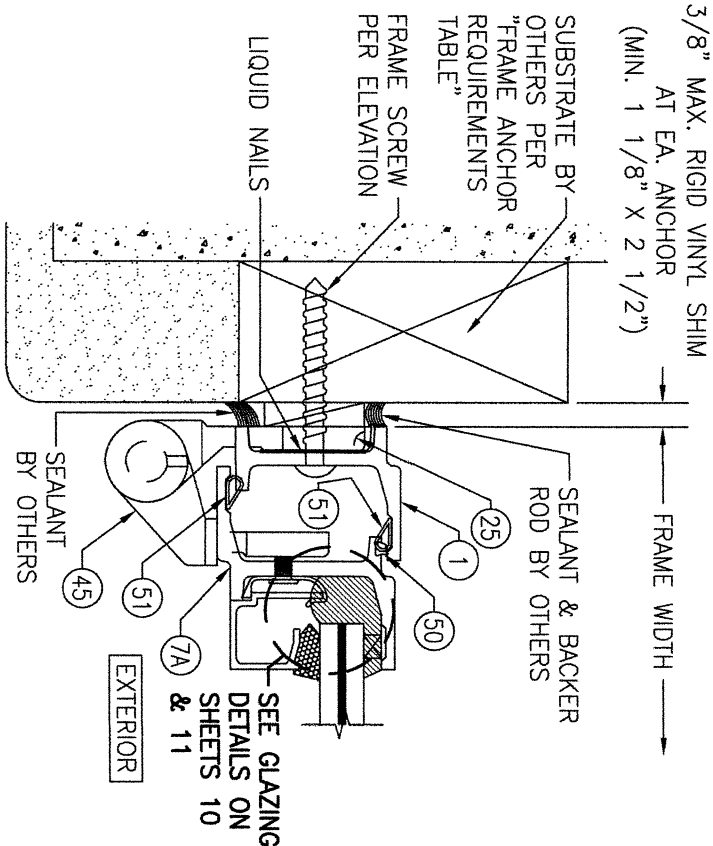
MANUFACTURER
HOPE'S WINDOWS, INC.
84 HOPKINS AVENUE
JAMESTOWN, NY 14702
(716) 665-5124

DRAWING TITLE
LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH JAMESTOWN STILES AND RAILS

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

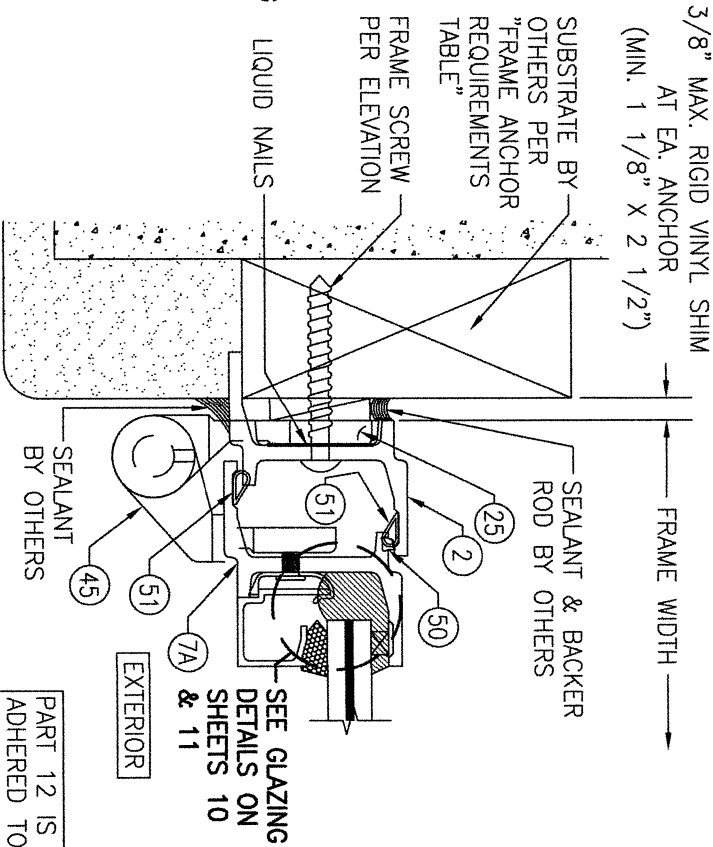
CERTIFICATION
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. REV.
1881B A
SHEET NO.
6 OF 14



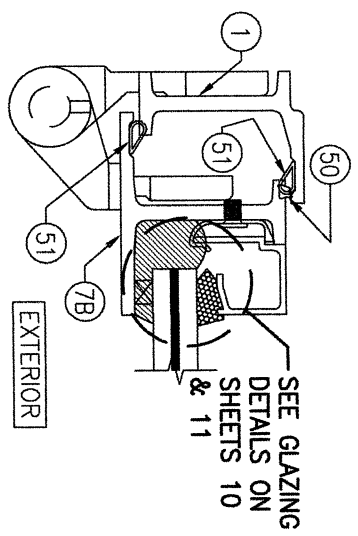
SECTION
C1
SCALE: 1/2 FULL
EQUAL LEG FRAME; EXTERIOR
GLAZED CONDITION

FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 10 FOR DIRECT MOUNT DETAIL. CLIP MOUNT IS NOT APPLICABLE WITH EQUAL LEG FRAME.



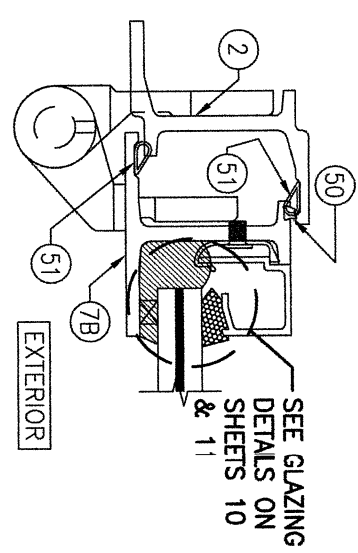
SECTION
C2
SCALE: 1/2 FULL
LONG LEG FRAME; EXTERIOR
GLAZED CONDITION

FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 10 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



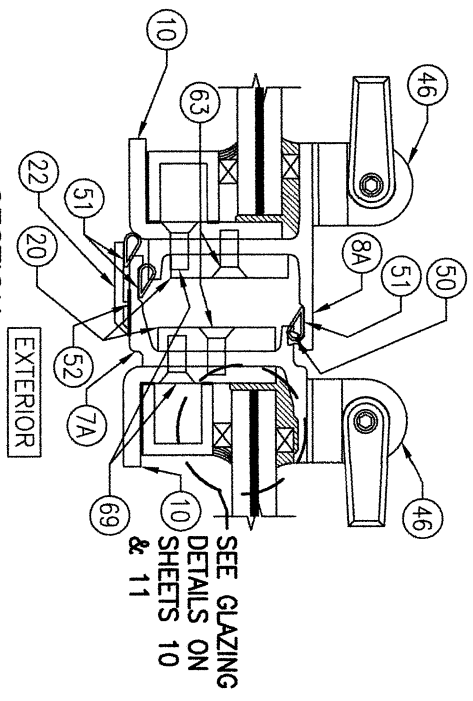
SECTION
C3
SCALE: 1/2 FULL
EQUAL LEG FRAME; INTERIOR
GLAZED CONDITION

(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION C1/7)

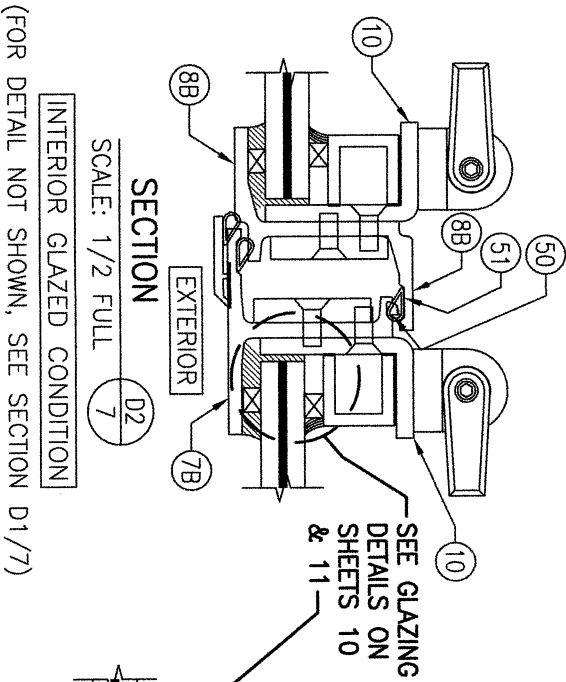


SECTION
C4
SCALE: 1/2 FULL
LONG LEG FRAME; INTERIOR
GLAZED CONDITION

(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION C2/7)

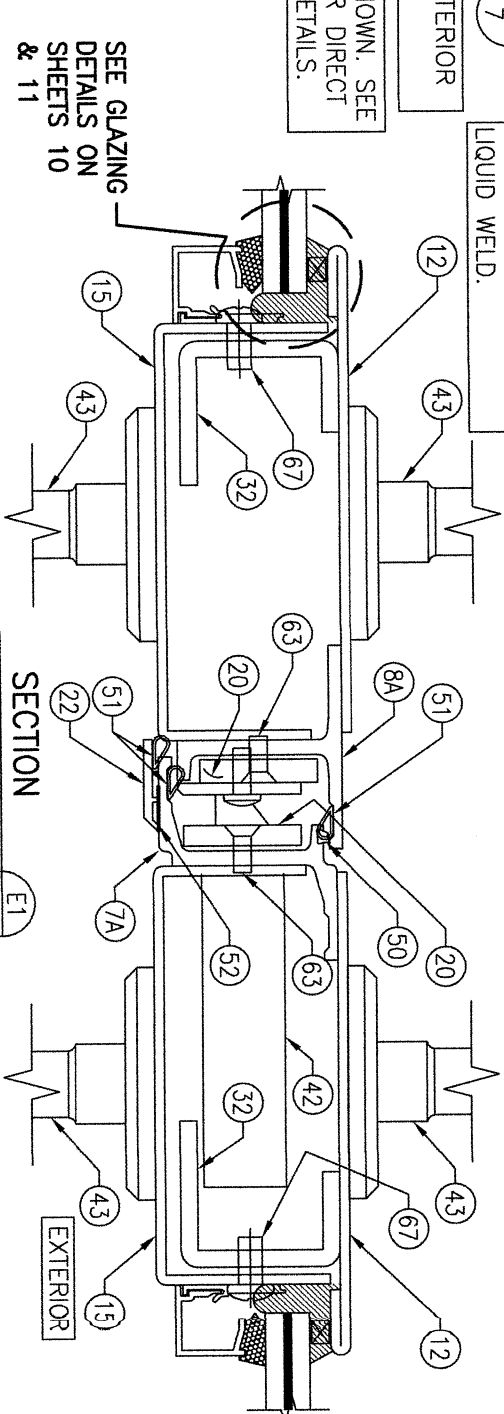


SECTION
D1
SCALE: 1/2 FULL
EXTERIOR GLAZED CONDITION

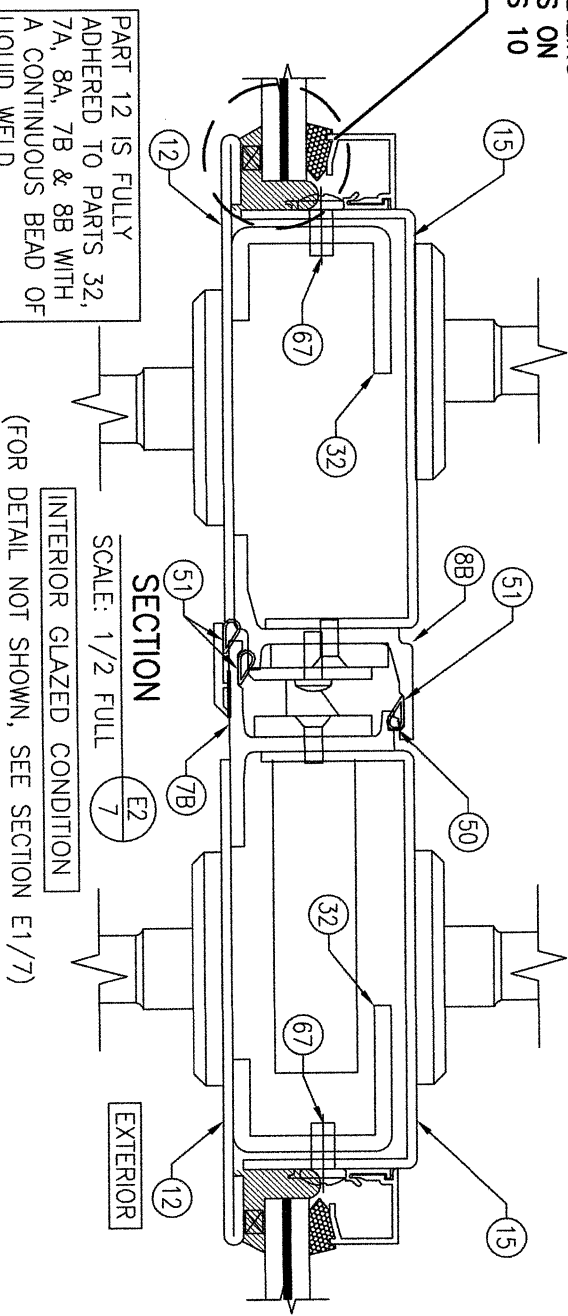


SECTION
D2
SCALE: 1/2 FULL
INTERIOR GLAZED CONDITION

(FOR DETAIL NOT SHOWN, SEE SECTION D1/7)



SECTION
E1
SCALE: 1/2 FULL
EXTERIOR GLAZED CONDITION



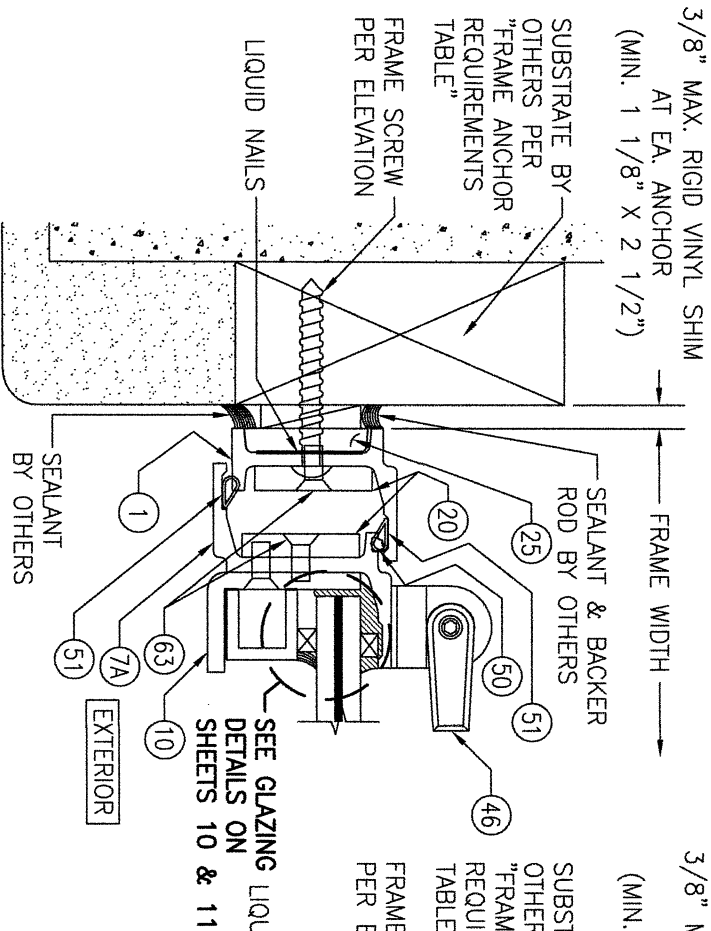
SECTION
E2
SCALE: 1/2 FULL
INTERIOR GLAZED CONDITION

(FOR DETAIL NOT SHOWN, SEE SECTION E1/7)

NO.	REVISION	DESCRIPTION	BY	DATE
1-2				

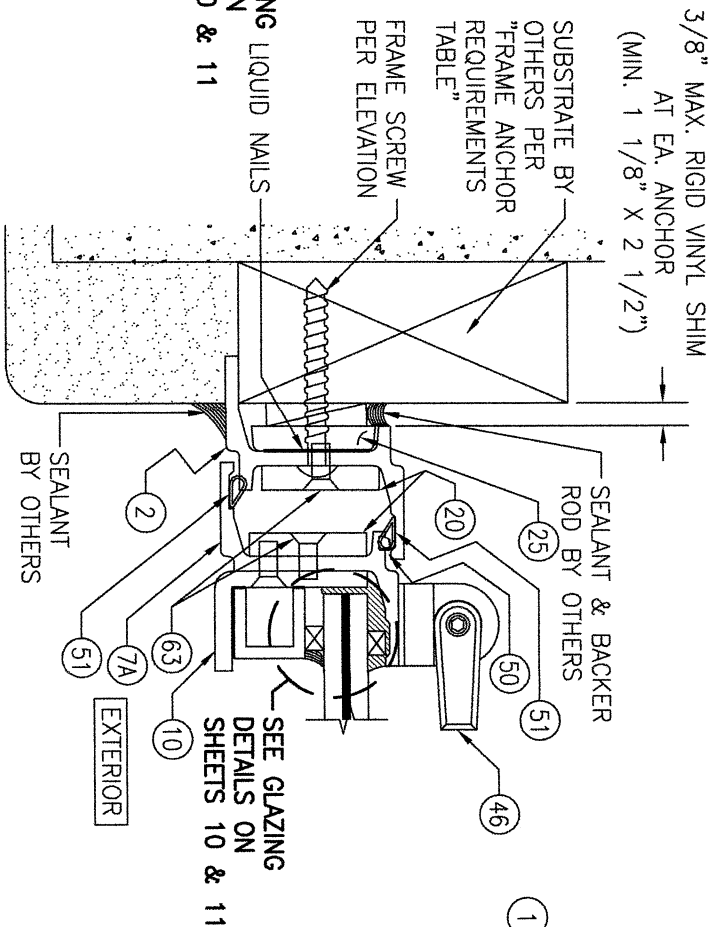
DRAWING TITLE LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH JAMESTOWN STILES AND RAILS		MANUFACTURER HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		CHECKED BY: W.M.S.	

CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1881B	REV. A
SHEET NO. 7 OF 14			



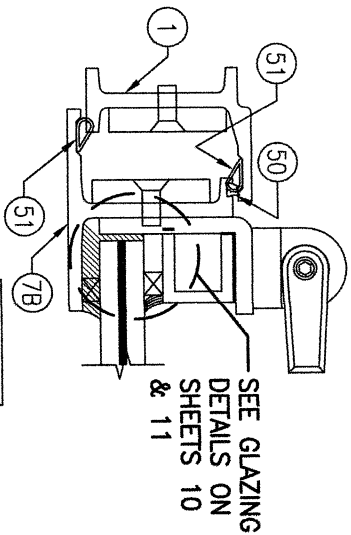
EQUAL LEG FRAME; EXTERIOR GLAZED CONDITION

FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 10 FOR DIRECT MOUNT DETAIL. CLIP MOUNT IS NOT APPLICABLE WITH EQUAL LEG FRAME.



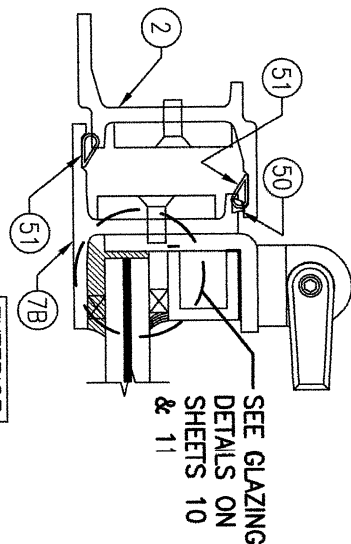
LONG LEG FRAME; EXTERIOR GLAZED CONDITION

FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 10 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



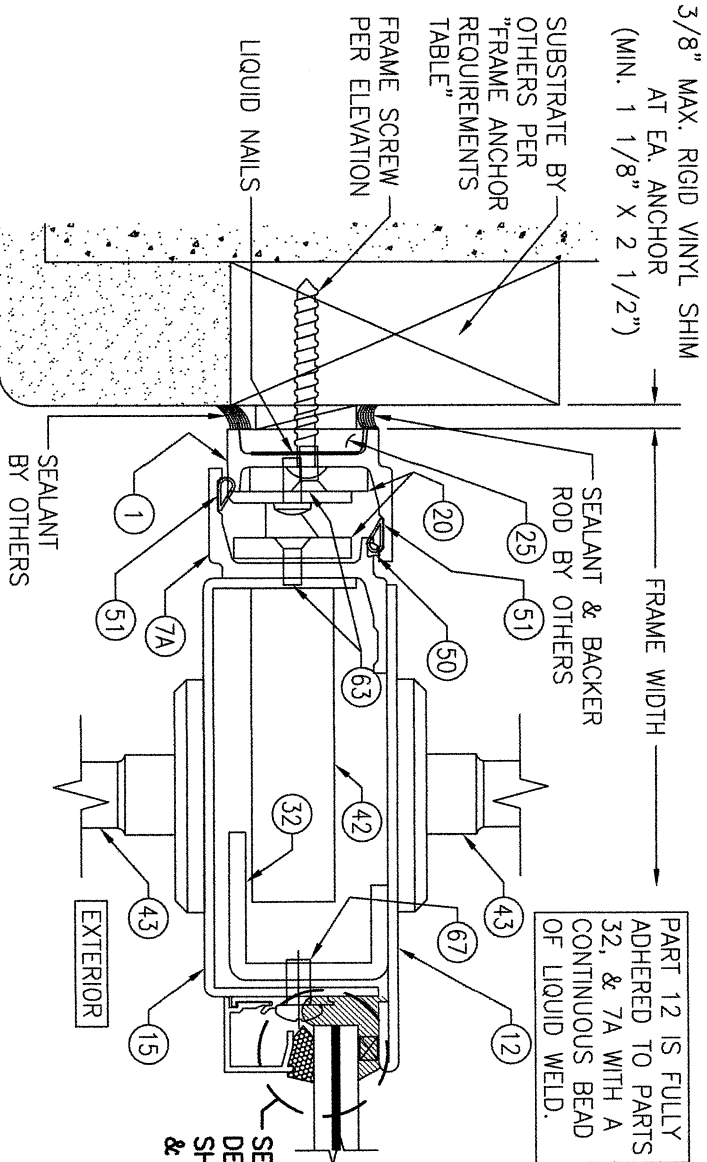
EQUAL LEG FRAME; INTERIOR GLAZED CONDITION

(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION F1/8)



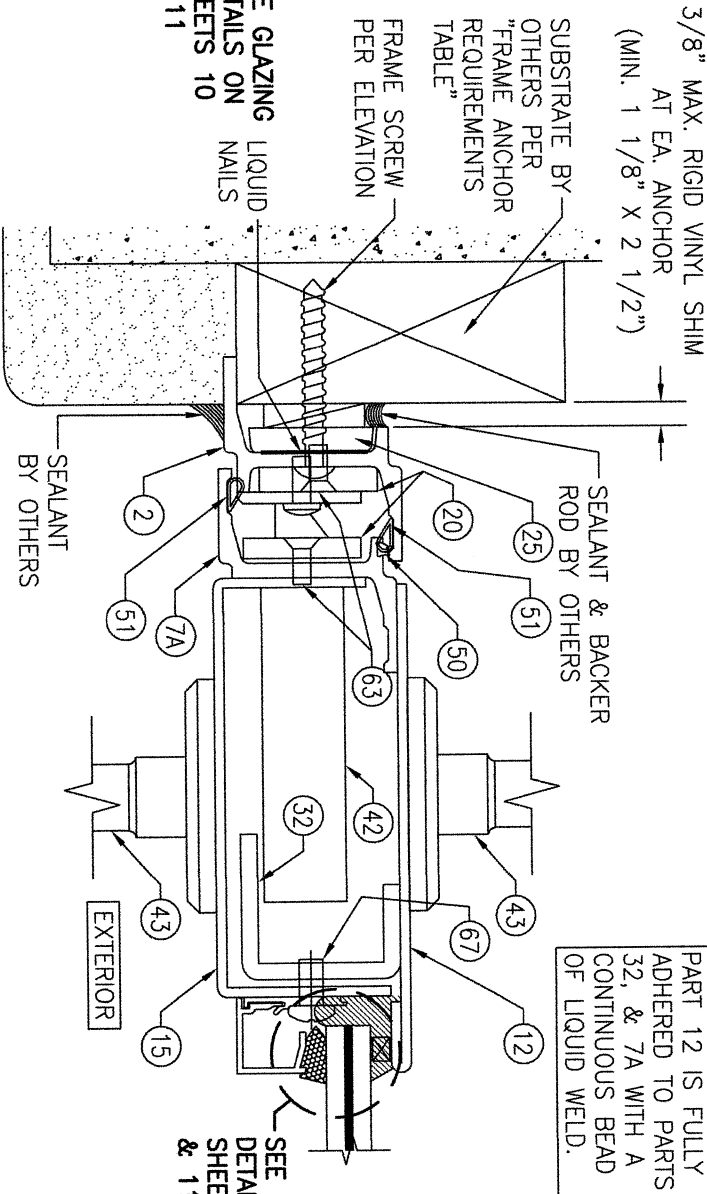
LONG LEG FRAME; INTERIOR GLAZED CONDITION

(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION F2/8)



EQUAL LEG FRAME; EXTERIOR GLAZED CONDITION

FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 10 FOR DIRECT MOUNT DETAIL. CLIP MOUNT IS NOT APPLICABLE WITH EQUAL LEG FRAME.



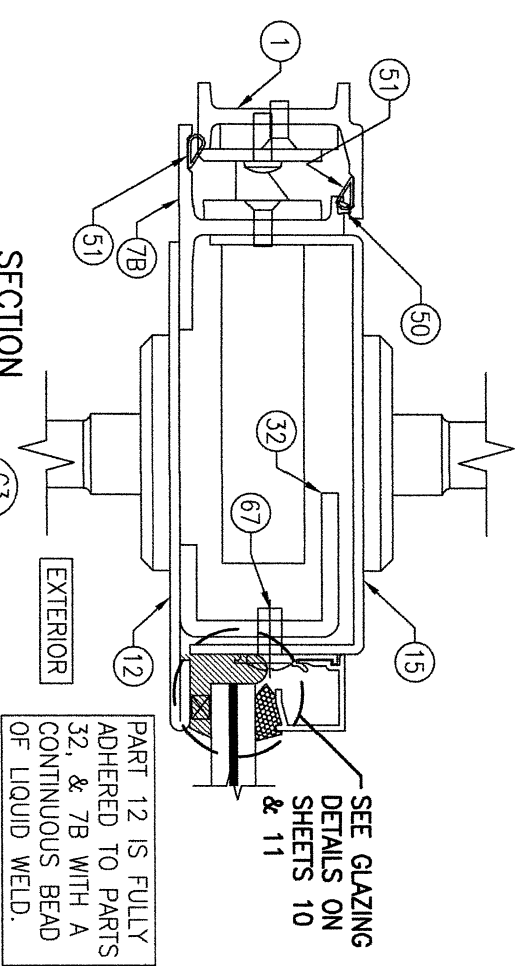
LONG LEG FRAME; EXTERIOR GLAZED CONDITION

FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 10 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

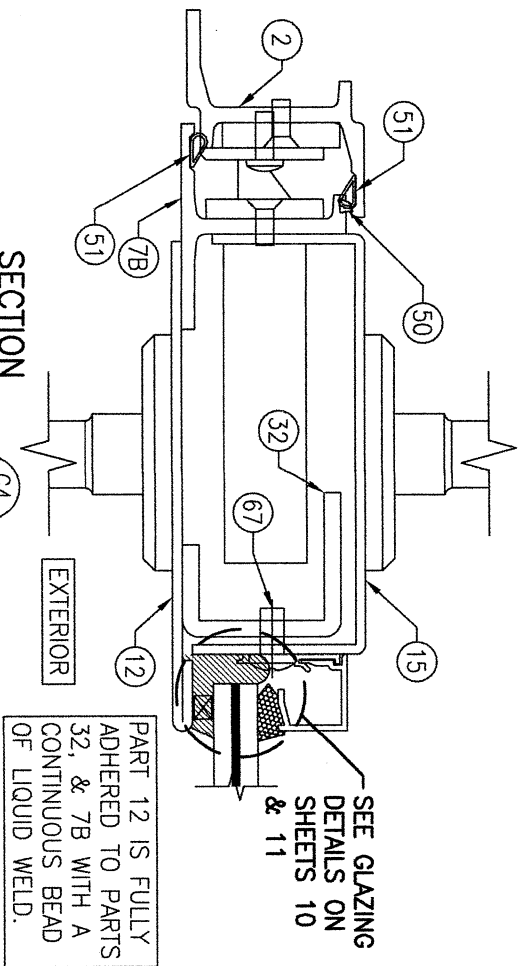
NO.	REVISION	DESCRIPTION	BY	DATE
1-2				12/04/13

DRAWING TITLE	CONSULTANTS	MANUFACTURER
LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH JAMESTOWN STILES AND RAILS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124

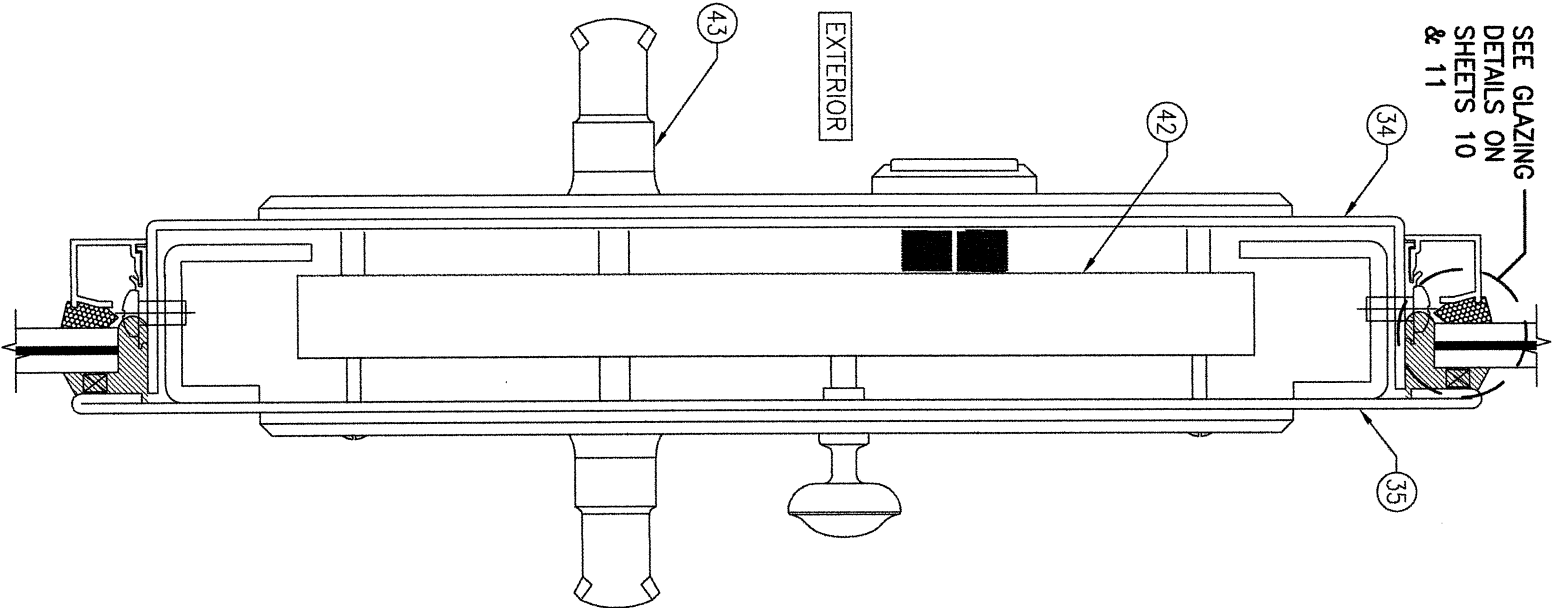
CERTIFICATION	DRAWING NO.	REV.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1881B	A
	SHEET NO.	8 OF 14



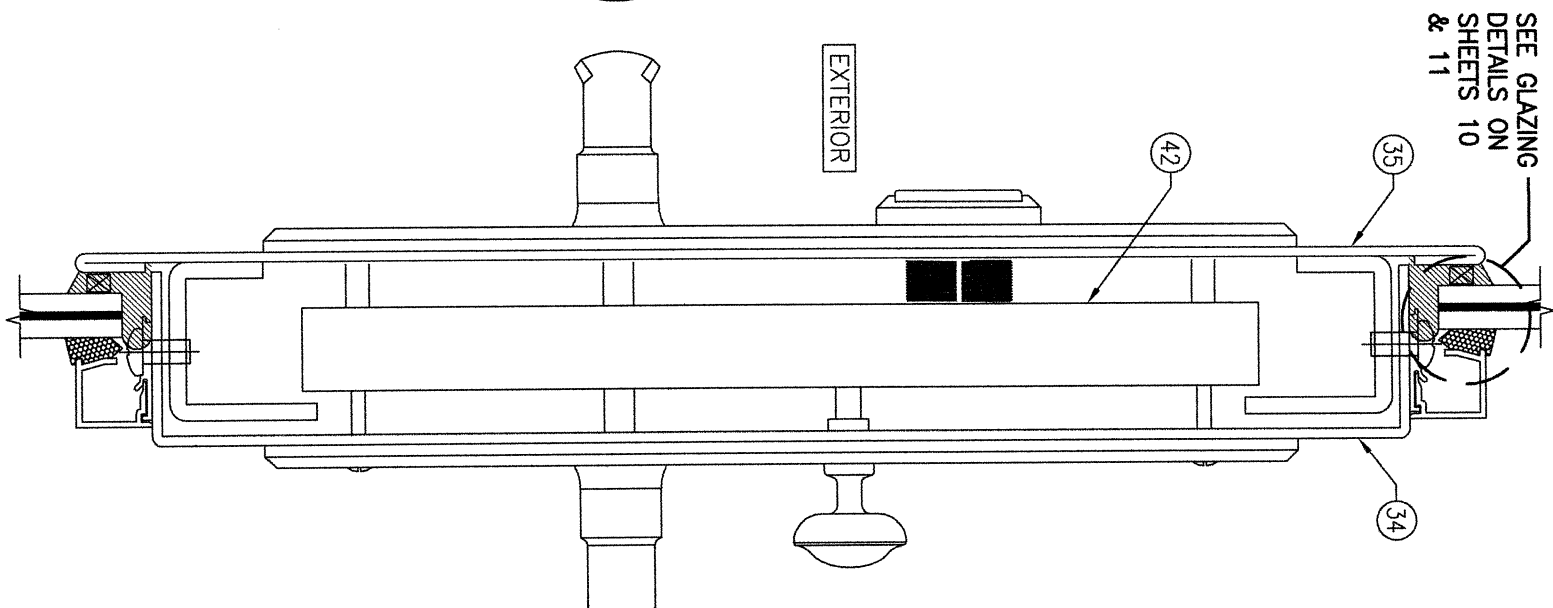
SECTION
SCALE: 1/2 FULL
G3
EQUAL LEG FRAME; INTERIOR
GLAZED CONDITION
(FOR INSTALLATION & OTHER DETAIL
NOT SHOWN, SEE SECTION G1/8)



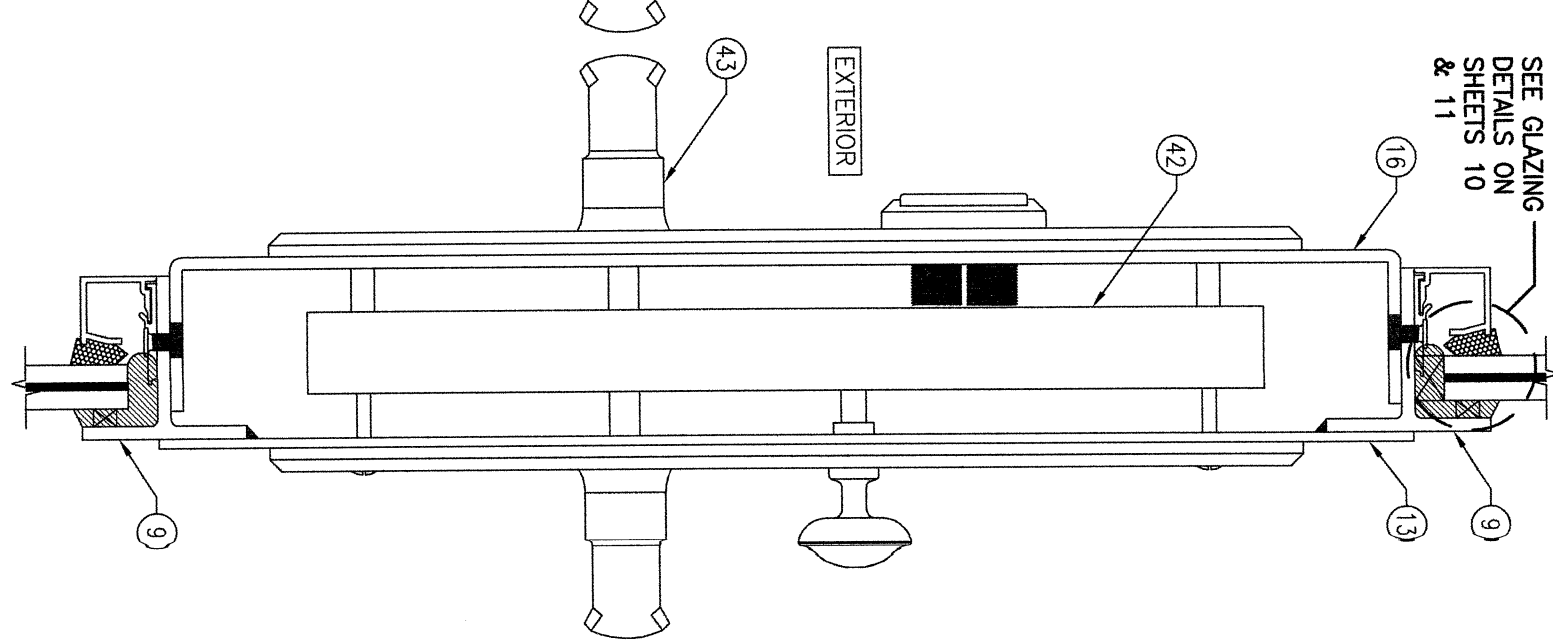
SECTION
SCALE: 1/2 FULL
G4
LONG LEG FRAME; INTERIOR
GLAZED CONDITION
(FOR INSTALLATION & OTHER DETAIL
NOT SHOWN, SEE SECTION G2/8)



SECTION
SCALE: 1/2 FULL
H1
SEE GLAZING
DETAILS ON
SHEETS 10
& 11
EXTERIOR
EXTERIOR GLAZED CONDITION
WHEN NO MID-RAILS EXIST



SECTION
SCALE: 1/2 FULL
H2
SEE GLAZING
DETAILS ON
SHEETS 10
& 11
EXTERIOR
INTERIOR GLAZED CONDITION
WHEN NO MID-RAILS EXIST
(FOR DETAIL NOT SHOWN, SEE SECTION H3/9)

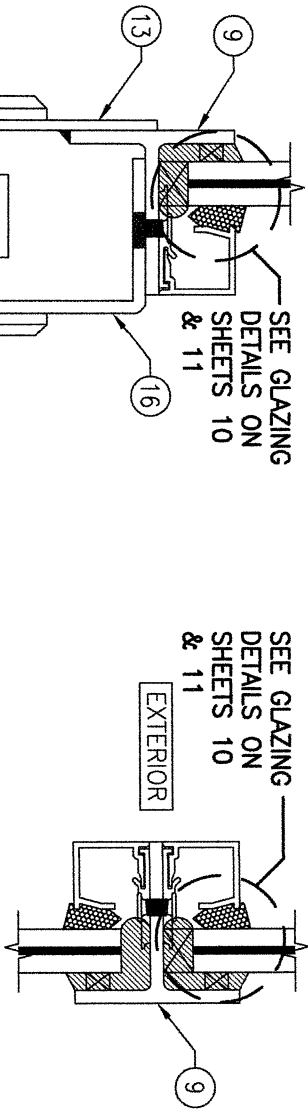


SECTION
SCALE: 1/2 FULL
H3
SEE GLAZING
DETAILS ON
SHEETS 10
& 11
EXTERIOR
EXTERIOR GLAZED CONDITION
WHEN MID-RAILS EXIST

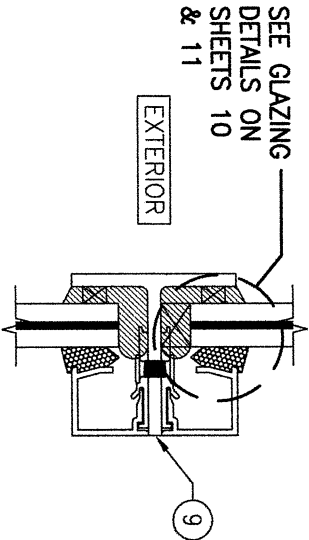
NO.	REVISION	DESCRIPTION	BY	DATE
1-2				

DRAWING TITLE LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH JAMESTOWN STILES AND RAILS		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124	
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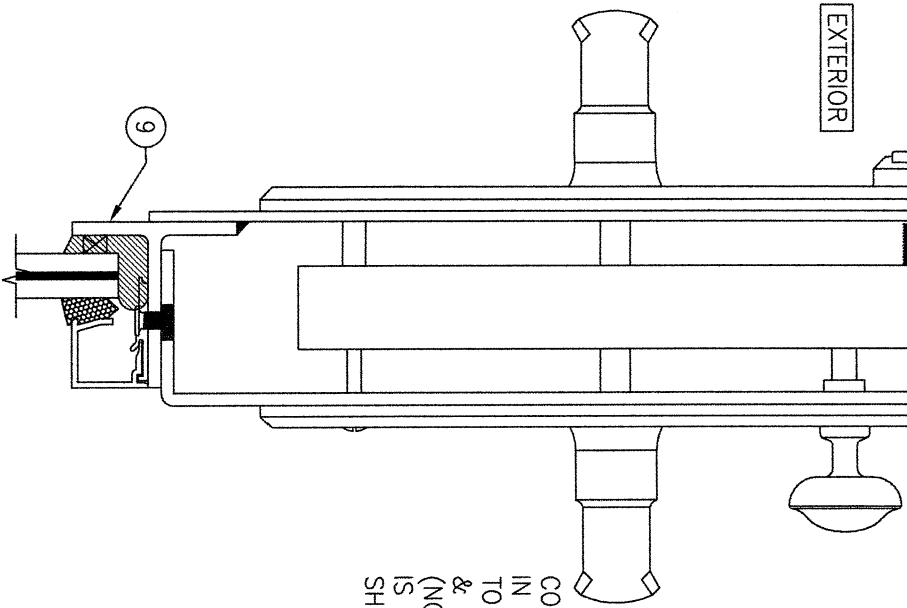
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1881B	REV. A
SHEET NO. 9 OF 14			



SECTION J1
SCALE: 1/2 FULL
EXTERIOR GLAZED CONDITION

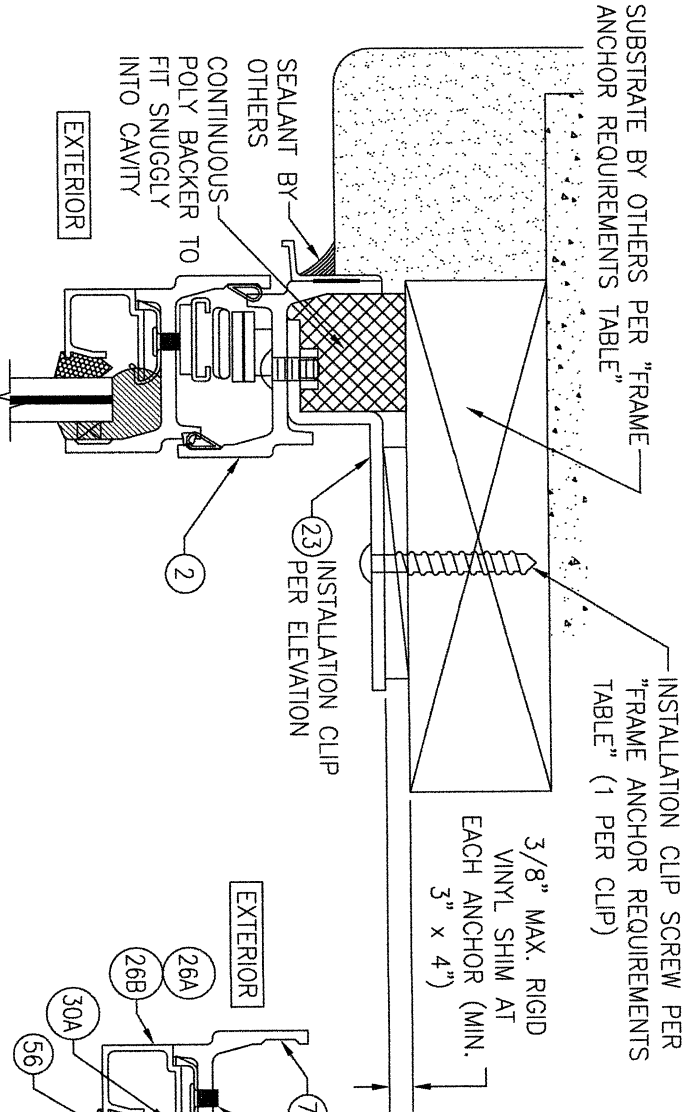


SECTION J2
SCALE: 1/2 FULL
INTERIOR GLAZED CONDITION

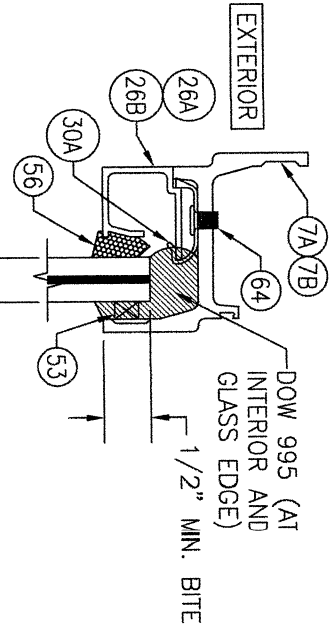


SECTION H4
SCALE: 1/2 FULL
INTERIOR GLAZED CONDITION WHEN MID-RAILS EXIST

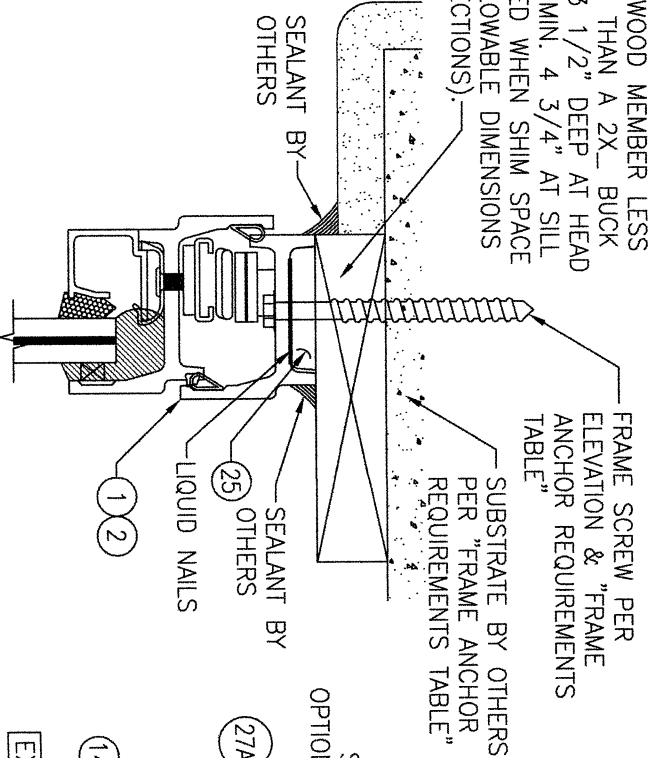
(FOR DETAIL NOT SHOWN, SEE SECTION H1/9)



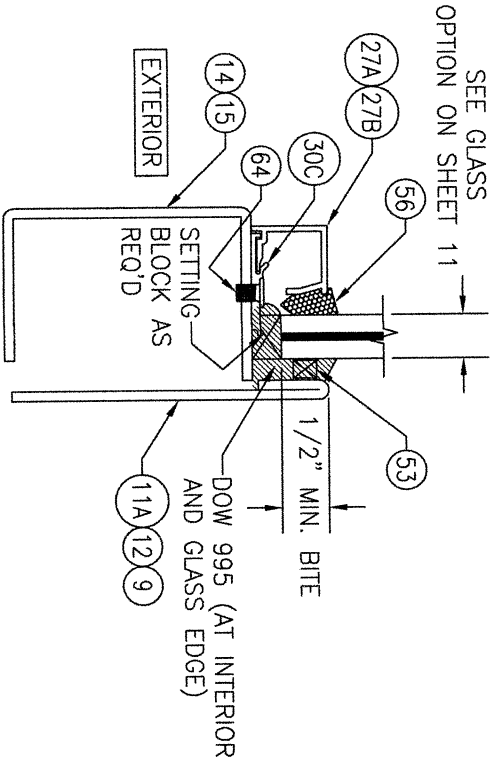
OPTIONAL INSTALLATION CLIP MOUNT DETAIL
(HEAD SECTION SHOWN. SIDES ARE INSTALLED THE SAME.
(EXTERIOR GLAZED CONDITION SHOWN. INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



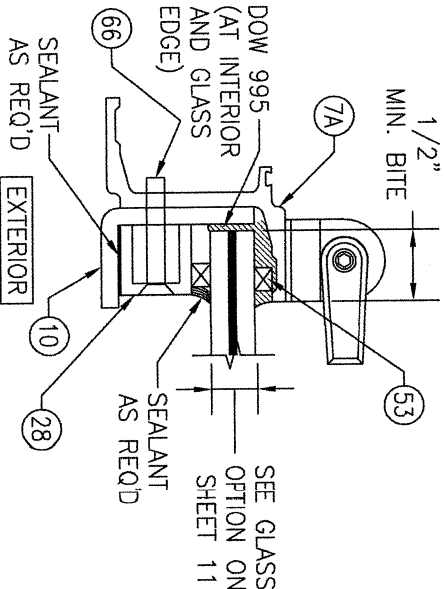
SEE GLASS OPTION ON SHEET 11
MONOLITHIC GLAZING DETAIL 1
(APPLICABLE TO EXTERIOR GLAZED TOP RAIL & HINGE STILE)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN. SIDES ARE INSTALLED THE SAME.
(EXTERIOR GLAZED CONDITION SHOWN. INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



MONOLITHIC GLAZING DETAIL 2
(APPLICABLE TO EXTERIOR GLAZED BOTTOM RAIL, MID-RAIL & LOCK BOX)



MONOLITHIC GLAZING DETAIL 3
(APPLICABLE TO EXTERIOR GLAZED LOCK STILE & MEETING STILE)

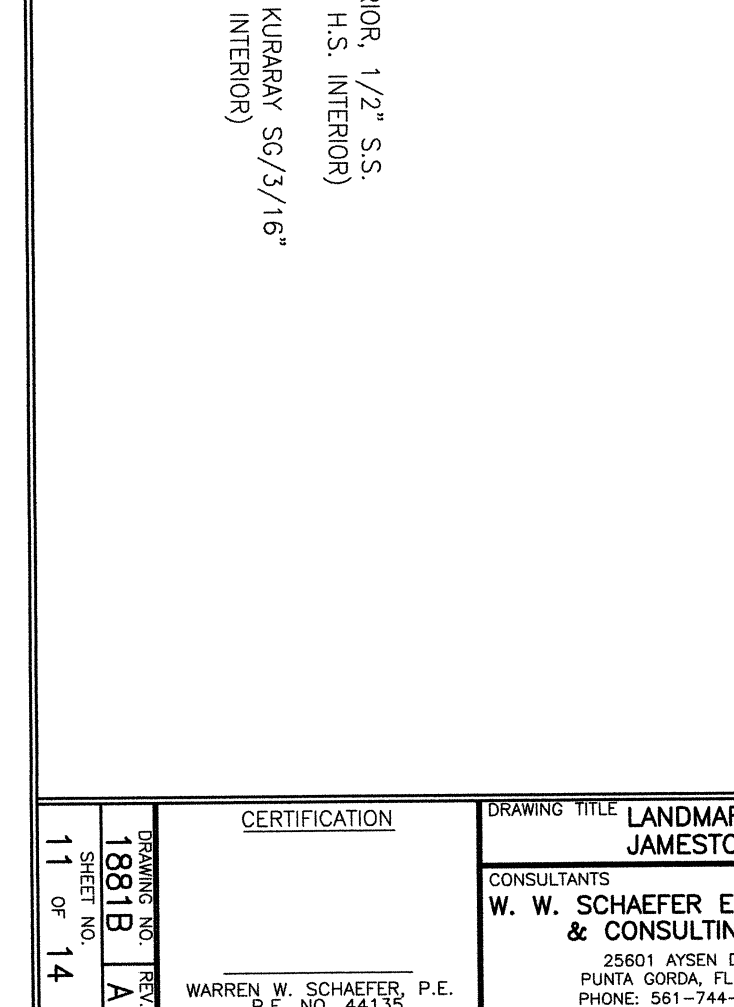
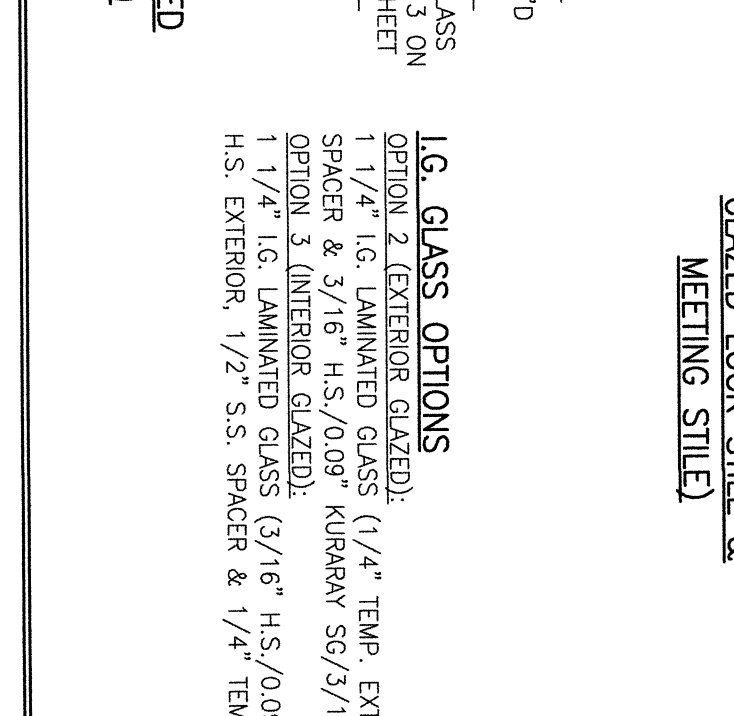
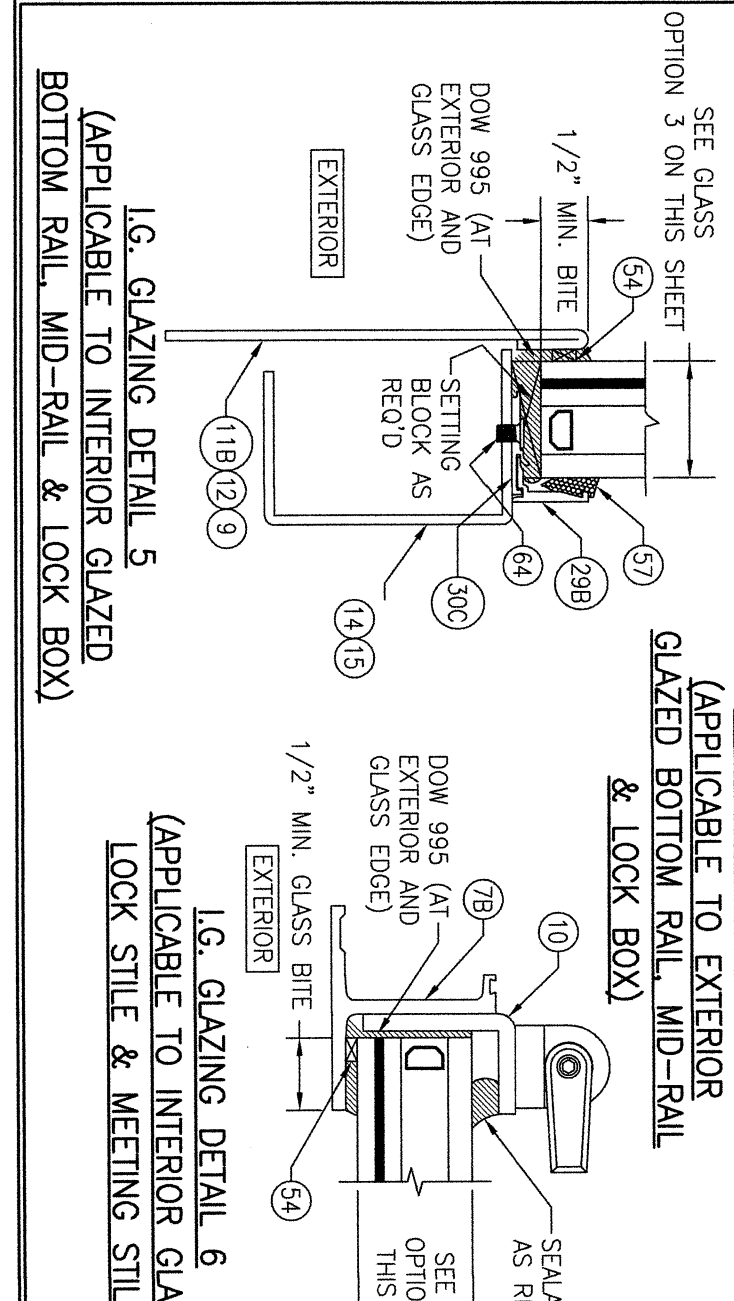
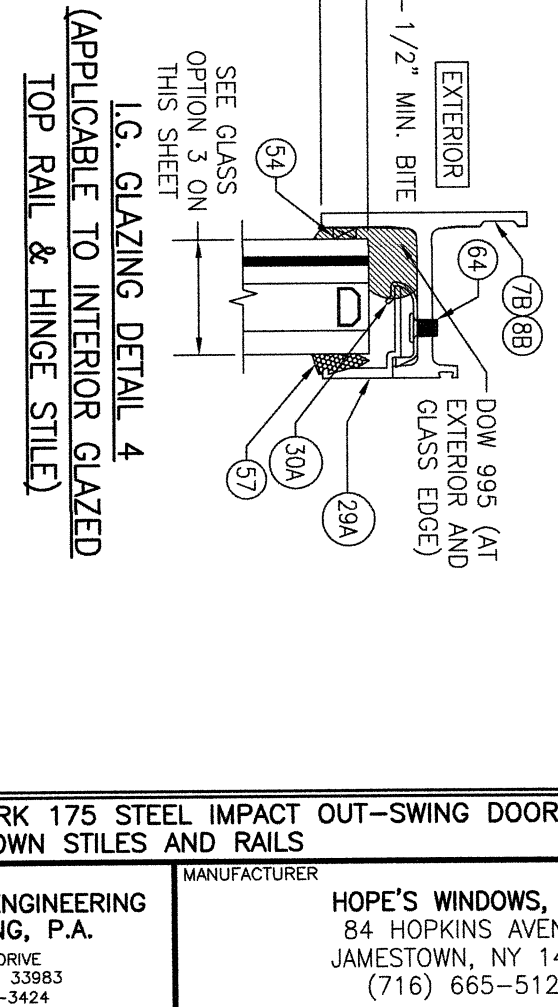
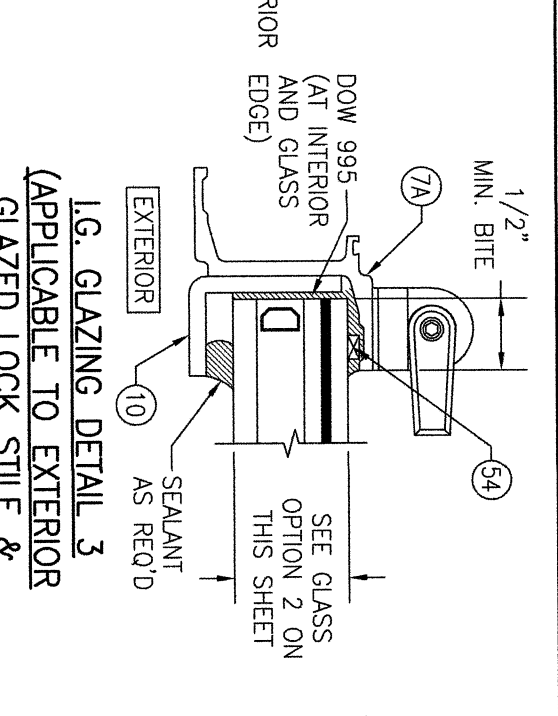
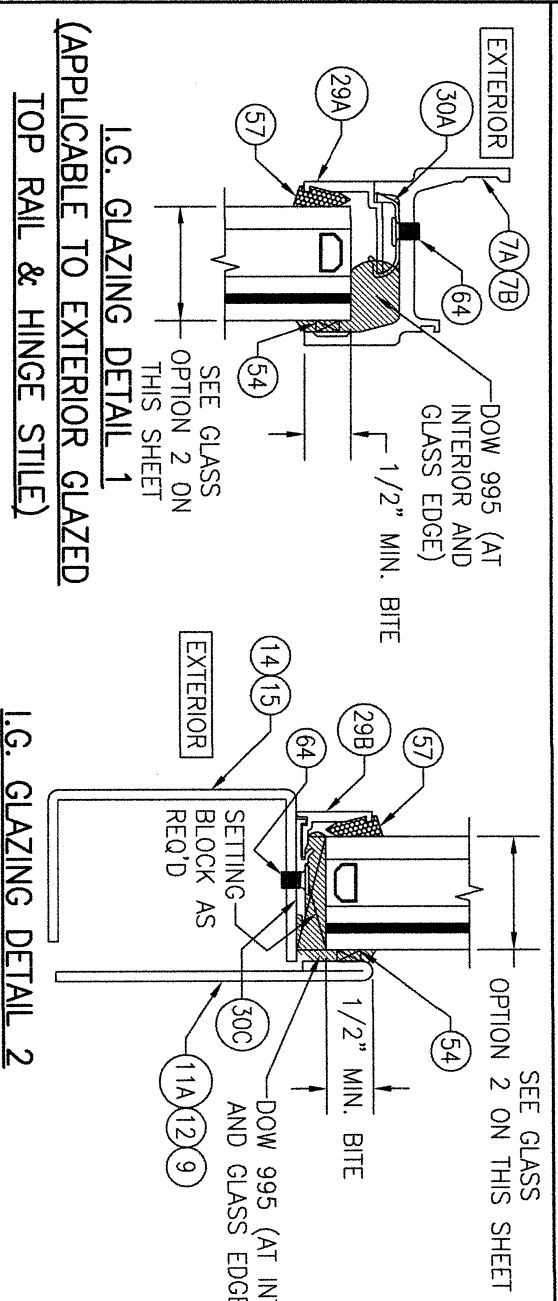
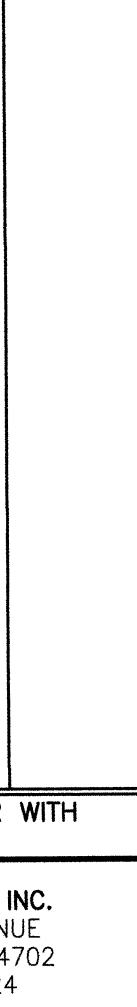
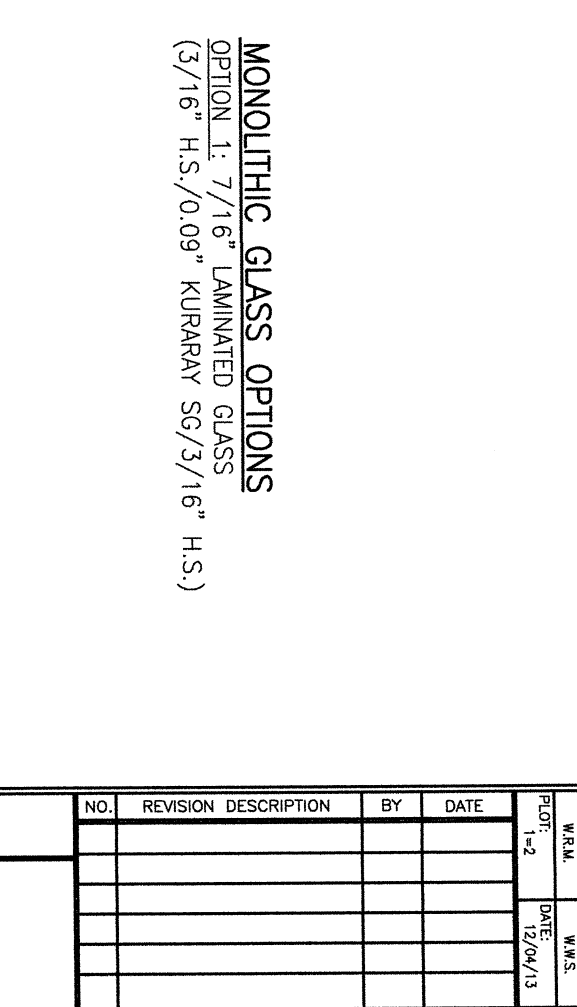
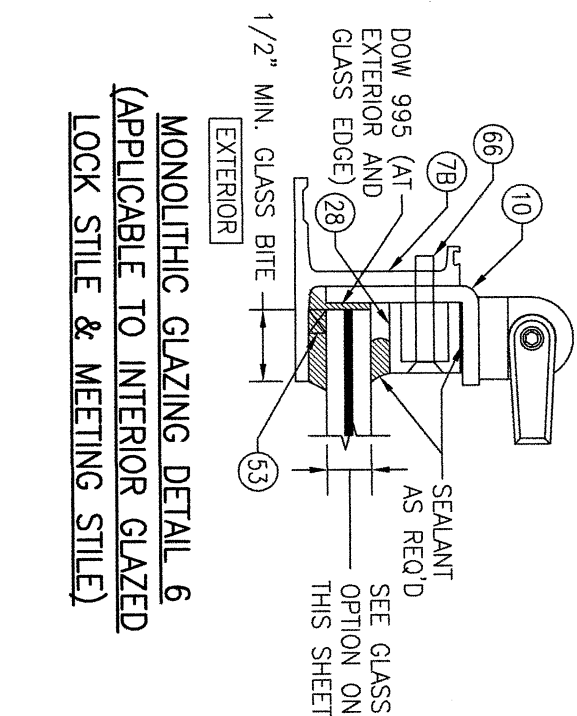
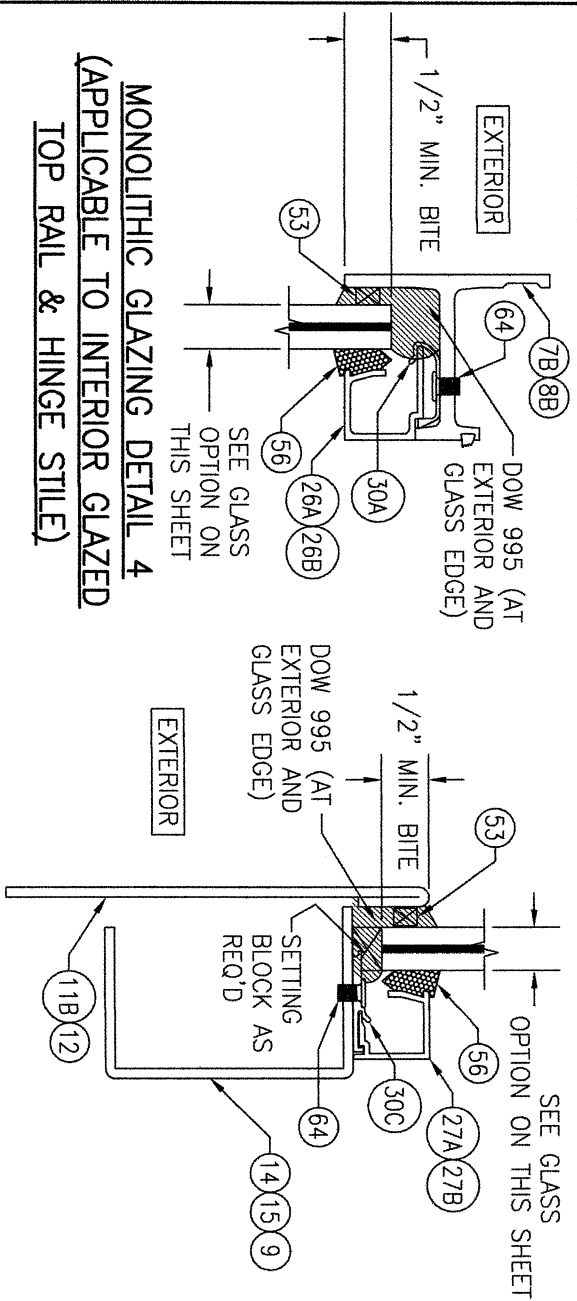
DATE	BY	REVISION	NO.
12/04/13			

HOPE'S WINDOWS, INC.
84 HOPKINS AVENUE
JAMESTOWN, NY 14702
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25601 AYSAN DRIVE
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

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

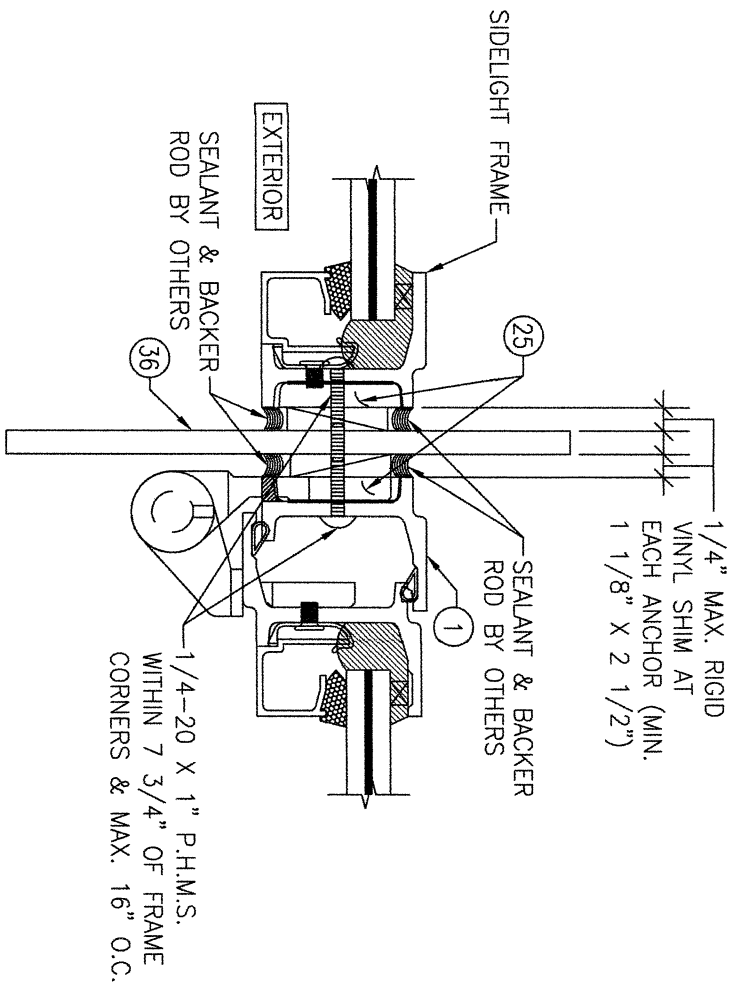
DRAWING NO. 1881B
REV. A
SHEET NO. 10 OF 14



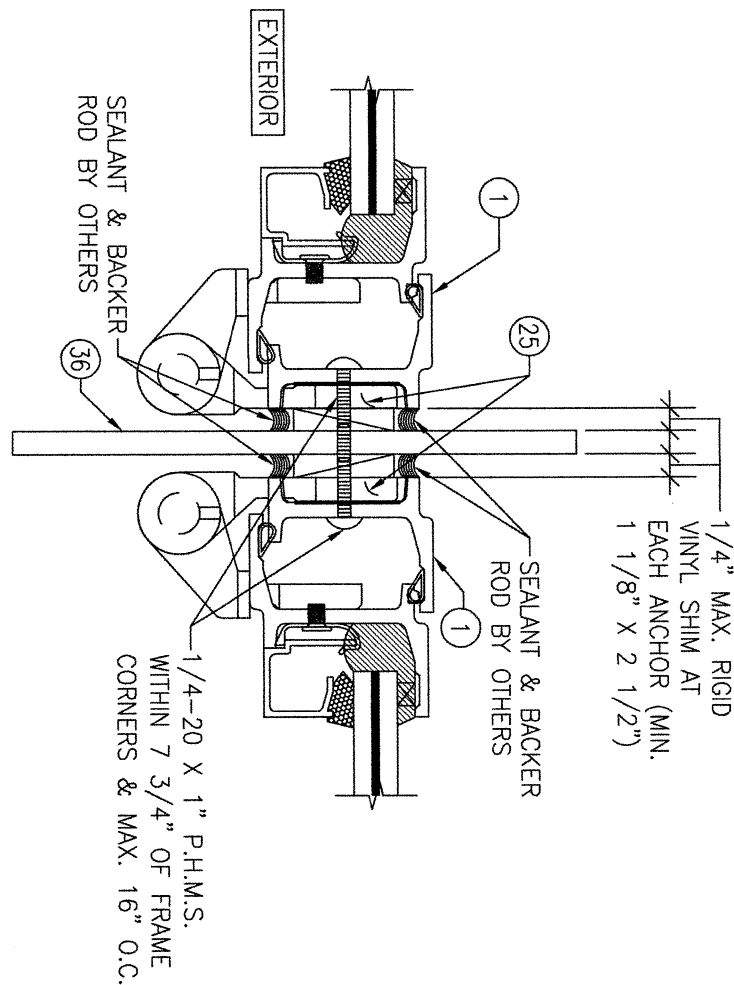
MONOLITHIC GLASS OPTIONS
OPTION 1: 7/16" LAMINATED GLASS
(3/16" H.S./0.09" KURARAY SG/3/16" H.S.)

I.G. GLASS OPTIONS
OPTION 2 (EXTERIOR GLAZED):
1 1/4" I.G. LAMINATED GLASS (1/4" TEMP. EXTERIOR, 1/2" S.S. SPACER & 3/16" H.S./0.09" KURARAY SG/3/16" H.S. INTERIOR)
OPTION 3 (INTERIOR GLAZED):
1 1/4" I.G. LAMINATED GLASS (3/16" H.S./0.09" KURARAY SG/3/16" H.S. EXTERIOR, 1/2" S.S. SPACER & 1/4" TEMP. INTERIOR)

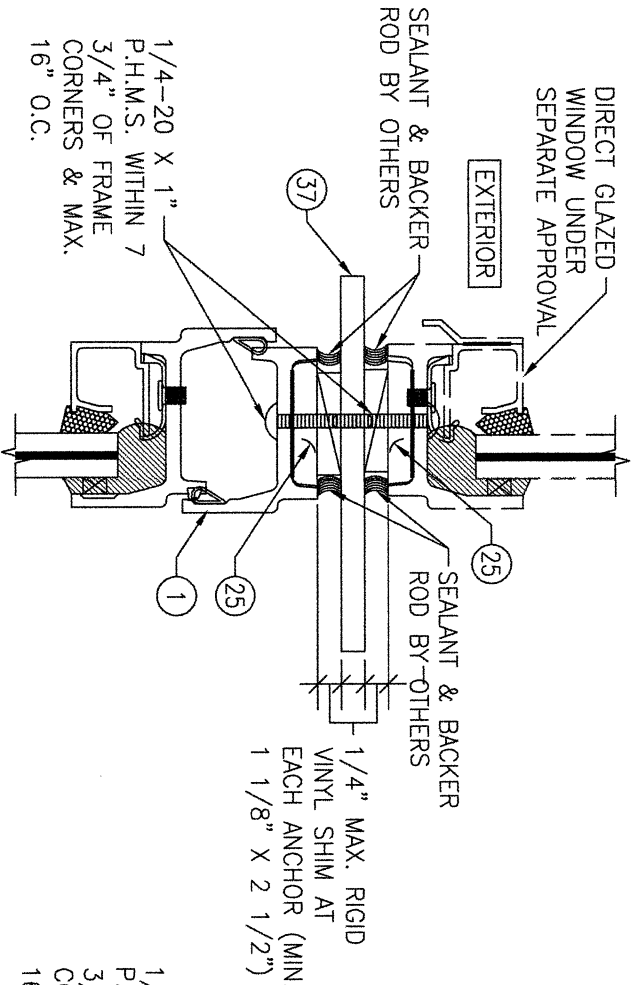
DRAWING NO. 1881B		REV. A	
SHEET NO. 11		OF 14	
CERTIFICATION			
WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING TITLE			
LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH JAMESTOWN STILES AND RAILS			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		HOPE'S WINDOWS, INC.	
25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124	
NO. REVISION DESCRIPTION BY DATE			
1-2 12/04/13			



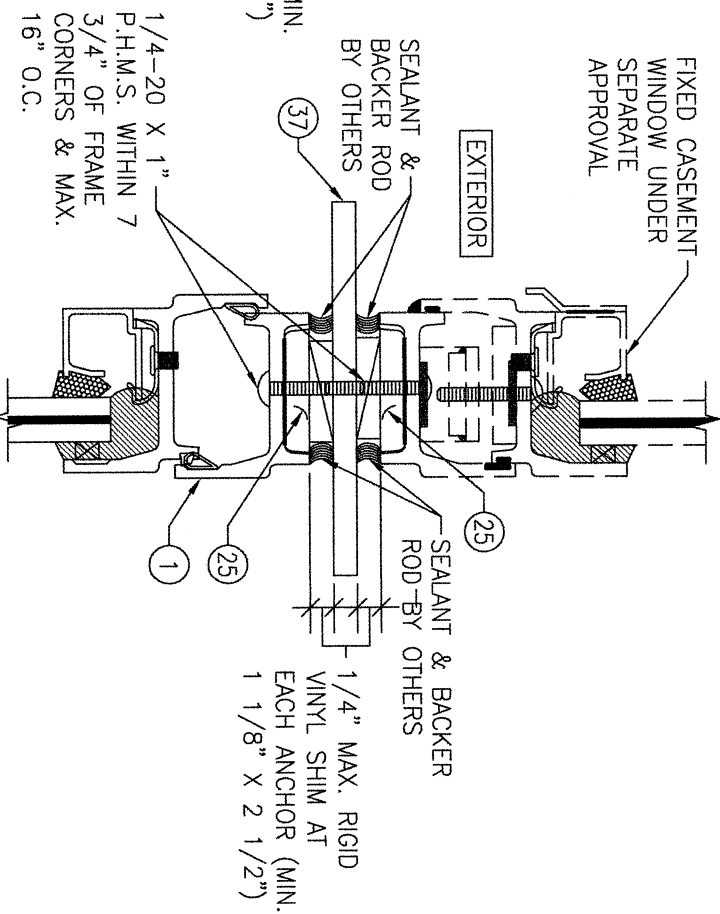
SECTION K1
SCALE: 1/2 FULL
(DOOR TO SIDELIGHT)
(EXTERIOR GLAZED CONDITION SHOWN.
INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



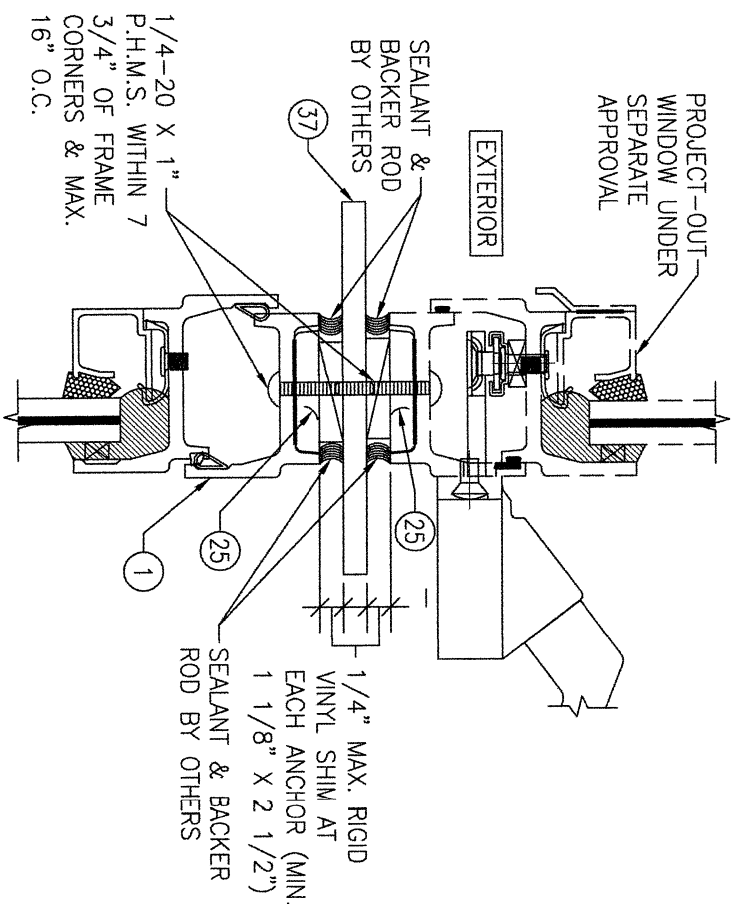
SECTION K2
SCALE: 1/2 FULL
(DOOR TO DOOR)
(EXTERIOR GLAZED CONDITION SHOWN.
INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION L1
SCALE: 1/2 FULL
(EXTERIOR GLAZED CONDITION SHOWN.
INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION L2
SCALE: 1/2 FULL
(EXTERIOR GLAZED CONDITION SHOWN.
INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION L3
SCALE: 1/2 FULL

				DRAWN BY: W.R.M.		CHECKED BY: W.M.S.	
				DATE: 12/04/13			
				1-2			
NO.	REVISION	DESCRIPTION	BY	DATE			

DRAWING TITLE
LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH
JAMESTOWN STILES AND RAILS

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

MANUFACTURER
HOPE'S WINDOWS, INC.
84 HOPKINS AVENUE
JAMESTOWN, NY 14702
(716) 665-5124

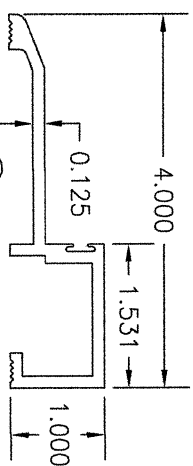
CERTIFICATION

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

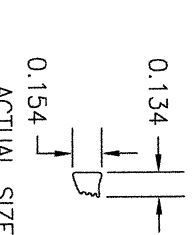
DRAWING NO. REV.
1881B A
SHEET NO. 12 OF 14

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	EQUAL LEG FRAME & BOTTOM RAIL EXTENSION	A-36 STEEL
2	LONG LEG FRAME OR FIXED ASTRAGAL	A-36 STEEL
3	THRESHOLD PAN	5052-H32 ALUMINUM, BRONZE OR 12 GA S.S.
4	THRESHOLD RISER	5052-H32 ALUMINUM, BRONZE OR 12 GA S.S.
5	THRESHOLD SUPPORT CHANNEL	5052-H32 ALUMINUM, BRONZE OR 12 GA S.S.
6	THRESHOLD FRAME	A-36 STEEL
7A	TOP RAIL, HINGE STILE & LOCK STILE/BOTTOM RAIL EXTENSION (USED WITH EXTERIOR GLAZING)	A-36 STEEL
7B	TOP RAIL, HINGE STILE & LOCK STILE/BOTTOM RAIL EXTENSION (USED WITH INTERIOR GLAZING)	A-36 STEEL
7C	BOTTOM RAIL EXTENSION (USED WITH EXTERIOR GLAZING)	A-36 STEEL
7D	BOTTOM RAIL EXTENSION (USED WITH INTERIOR GLAZING)	A-36 STEEL
8A	INACTIVE MEETING STILE (USED WITH EXTERIOR GLAZING)	A-36 STEEL
8B	INACTIVE MEETING STILE (USED WITH INTERIOR GLAZING)	A-36 STEEL
9	MID-RAIL	A-36 STEEL
10	MEETING STILE EXTENSION	A-36 STEEL
11A	BOTTOM RAIL FLAT ADAPTOR (USED WITH EXTERIOR GLAZING)	409 OR 316 S.S.
11B	BOTTOM RAIL FLAT ADAPTOR (USED WITH INTERIOR GLAZING)	409 OR 316 S.S.
12	LOCK BOX SIDE FLAT ADAPTOR	409 OR 316 S.S.
13	LOCK BOX FLAT ADAPTOR 0.104 THICK X MIN. 13.353 LONG	409 OR 316 S.S.
14	BOTTOM RAIL "U" ADAPTOR	409 OR 316 S.S.
15	LOCK BOX SIDE "U" ADAPTOR	409 OR 316 S.S.
16	LOCK BOX "U" ADAPTOR	409 OR 316 S.S.
17	THRESHOLD BACKER BY JULIUS BLUM BRONZE	6063-T5 ALUMINUM OR BRONZE
18	D RIP EDGE	6063-T5 ALUMINUM
19	D RIP EDGE	6063-T5 ALUMINUM
20	STILE REINFORCEMENT 1/4" X 1 1/4" FLAT BAR	A-36 STEEL
22	ASTRAGAL	6063-T5 ALUMINUM
23	INSTALLATION CLIP	10 GA. GALVANIZED STEEL
24	SILL END CLOSURE	1/8" THICK ALUMINUM OR BRONZE WELDED & CAULKED
25	FIXING HOLE FILLER SHIM	RIGID VINYL
26A	STANDARD MONOLITHIC GLAZING BEAD (APPLICABLE TO TOP RAIL & HINGE STILE)	6063-T5 ALUMINUM
26B	SLOPED MONOLITHIC GLAZING BEAD (APPLICABLE TO TOP RAIL & HINGE STILE)	6063-T5 ALUMINUM
27A	STANDARD MONOLITHIC GLAZING BEAD (APPLICABLE TO BOTTOM RAIL, MID-RAIL & LOCK BOX)	6063-T5 ALUMINUM
27B	SLOPED MONOLITHIC GLAZING BEAD (APPLICABLE TO BOTTOM RAIL, MID-RAIL & LOCK BOX)	6063-T5 ALUMINUM
28	MONOLITHIC GLAZING CHANNEL (APPLICABLE TO MEETING STILE)	6063-T5 ALUMINUM
29A	I.G. GLAZING BEAD (APPLICABLE TO TOP RAIL & HINGE STILE)	6063-T5 ALUMINUM
29B	I.G. GLAZING BEAD (APPLICABLE TO BOTTOM RAIL, MID-RAIL & LOCK BOX)	6063-T5 ALUMINUM
30A	GLAZING RETAINER (USED WITH ITEM #26B & 29A)	6063-T5 ALUMINUM
30C	GLAZING RETAINER (USED WITH ITEM #27A, 27B & 29B)	6063-T5 ALUMINUM
31	WEEP HOOD	PVC BY PREFERRED ENGINEERING PRODUCTS
32	BOTTOM RAIL INTERNAL CHANNEL	A36 STEEL
33	12 GA. REINFORCEMENT TAB AT EACH FASTENER	409 OR 316 S.S.
34	LOCK BOX "U" ADAPTOR (NO MID-RAILS)	409 OR 316 S.S.
35	LOCK BOX FLAT ADAPTOR (NO MID-RAILS)	409 OR 316 S.S.
36	VERTICAL MULLION BAR	A-36 STEEL
37	HORIZONTAL MULLION BAR	A-36 STEEL

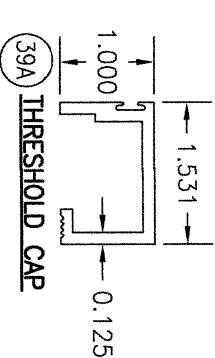
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
38	ALTERNATE THRESHOLD	6063-T5 ALUMINUM
39A	ALTERNATE THRESHOLD CAP	6063-T5 ALUMINUM
39B	ALTERNATE THRESHOLD CAP	6063-T5 ALUMINUM
40	0.125" X 0.625" WEATHERSTRIP BAR	ALUMINUM
41	REINFORCEMENT TAB	AT ENDS & CENTER OF ALTERNATE THRESHOLD
HARDWARE		
42	LOCKSET	ACCURATE 9100
43	HANDLE	AS REQUIRED TO OPERATE DOOR
44	FRICTION ADJUSTER	HOPE'S PART NO. 846
45	STANDARD WELDED OR SCREWED ON PIVOT HINGE	HOPE'S PART NO. 237S
46	SURFACE BOLTS (12" LONG AT HEAD; 5" LONG AT SILL)	HOPE'S PART NO. 20-50M3
SEALS & SEALANTS		
50	WEATHERSTRIP	TREMCO TR11688E EPDM
51	WEATHERSTRIP (SELF ADHERING)	REESE OR TBP 638CH SILICONE
52	DOUBLE SIDED TAPE	3M VBH 4941 FOAM/ACRYLIC
53	MONOLITHIC. GLAZING SHIM	TREMCO TR2178W EPDM
54	I.G. GLAZING SHIM	TREMCO TR1488W EPDM
56	GLAZING WEDGE (USED WITH MONOLITHIC GLASS)	TREMCO 496E EPDM
57	GLAZING WEDGE (USED WITH I.G. GLASS)	TREMCO PS1125E EPDM
58	THRESHOLD FOAM WEATHERSTRIP	QDST-375 Q-LONG
59	DOOR SWEEP & ADAPTOR	6063-T5 ALUMINUM BODY
FASTENERS		
60	10-24 X 1/2" PPH SS MACHINE SCREW	WITHIN 1" OF ENDS & 12" MAX. O.C.
61	1/4-20 X 3/4" PPH SS MACHINE SCREW	SPACED THE SAME AS FRAME ANCHORS (SEE ELEVATIONS FOR POSITIONS)
62	10-24 X 1 1/4" PPH S.S. MACHINE SCREW	WITHIN 2" OF ENDS & 12" MAX. O.C.
63	10-24 X 5/8" PPH S.S. MACHINE SCREW	WITHIN 6" OF ENDS & 12" MAX. O.C.
64	10-24 X 1/4" S.S. SELF SEALING MACHINE SCREW	2 1/2" FROM D.L.O. EDGE & 12" MAX. O.C.
65	1/4-20 SELF CLINCHING NUT INSERT	1 PER CLIP
66	10-24 X 1 1/4" PPH S.S. MACHINE SCREW	WITHIN 6" OF ENDS & 24" MAX. O.C.
67	1/4-20 X MIN. 1/2" PPH S.S. MACHINE SCREW	WITHIN 4" OF ENDS & 12" MAX. O.C.
68	1/4-20 X 3/4" PPH S.S. MACHINE SCREW	WITHIN 4" OF ENDS & 12" MAX. O.C.
69	1/4-20 X 3/8" PPH S.S. MACHINE SCREW	WITHIN 2" OF ENDS & 12" MAX. O.C.
70	10-24 X 1/2" PPH S.S. MACHINE SCREW	WITHIN 2 1/2" OF ENDS & 18" MAX. O.C.



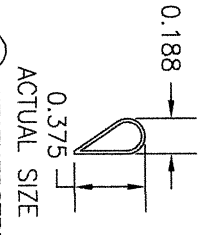
38 THRESHOLD



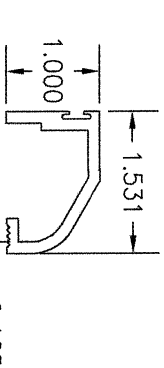
50 WEATHERSTRIP
ACTUAL SIZE



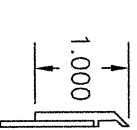
39A THRESHOLD CAP



51 WEATHERSTRIP
(SELF ADHERING)
ACTUAL SIZE



39B ALTERNATE THRESHOLD CAP



59 DOOR SWEEP

DATE	BY	REVISION	DESCRIPTION

DRAWING TITLE	CONSULTANTS	MANUFACTURER
LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH JAMESTOWN STILES AND RAILS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124

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

DRAWING NO.	REV.
1881B	A
SHEET NO.	OF
14	14