

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 ENTRY & 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.

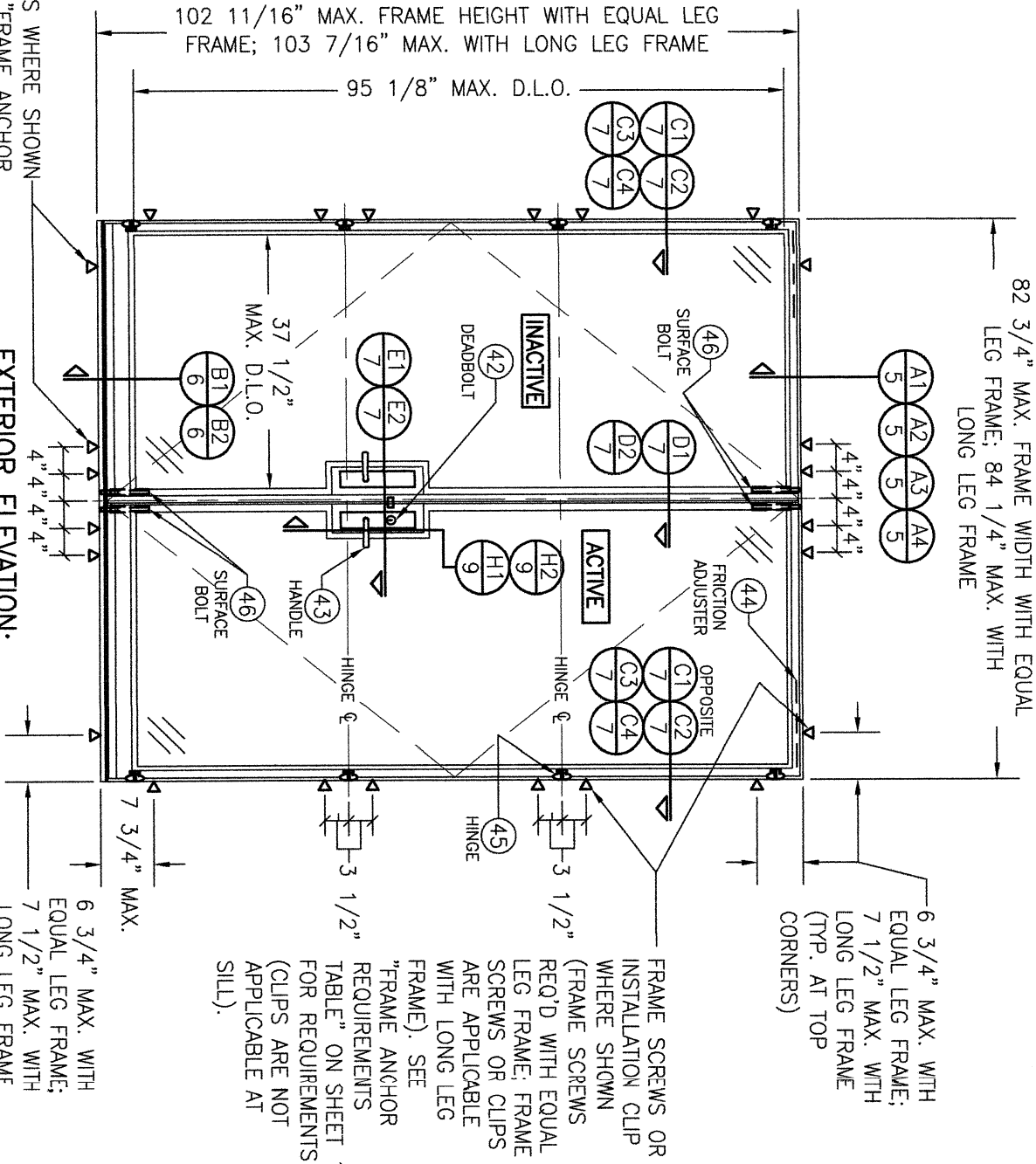
EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW 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.

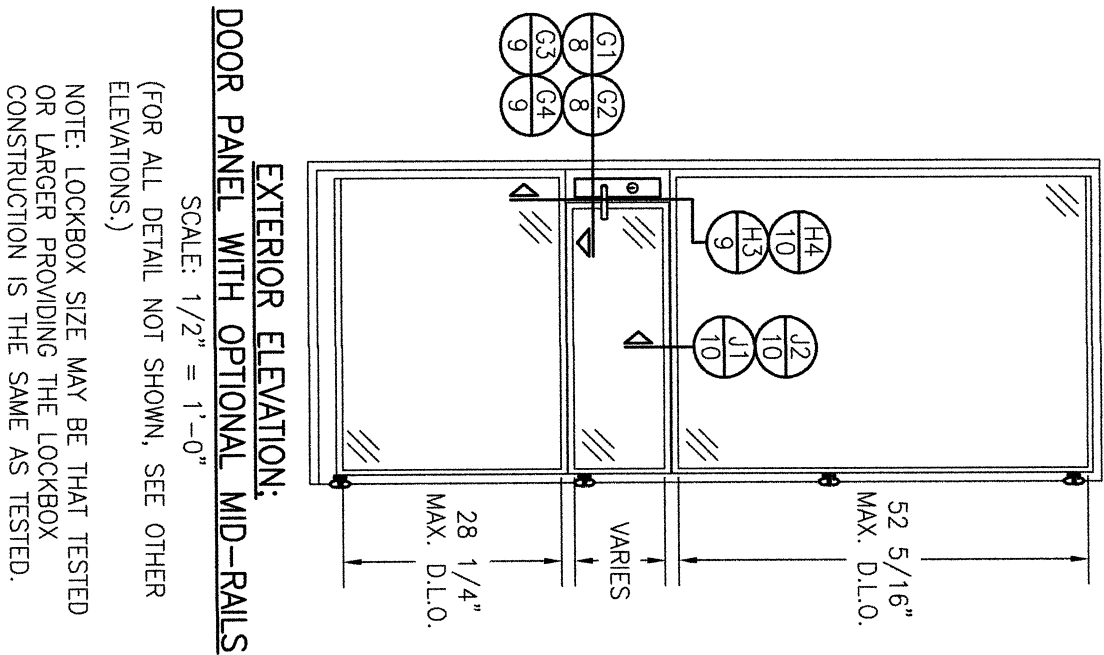
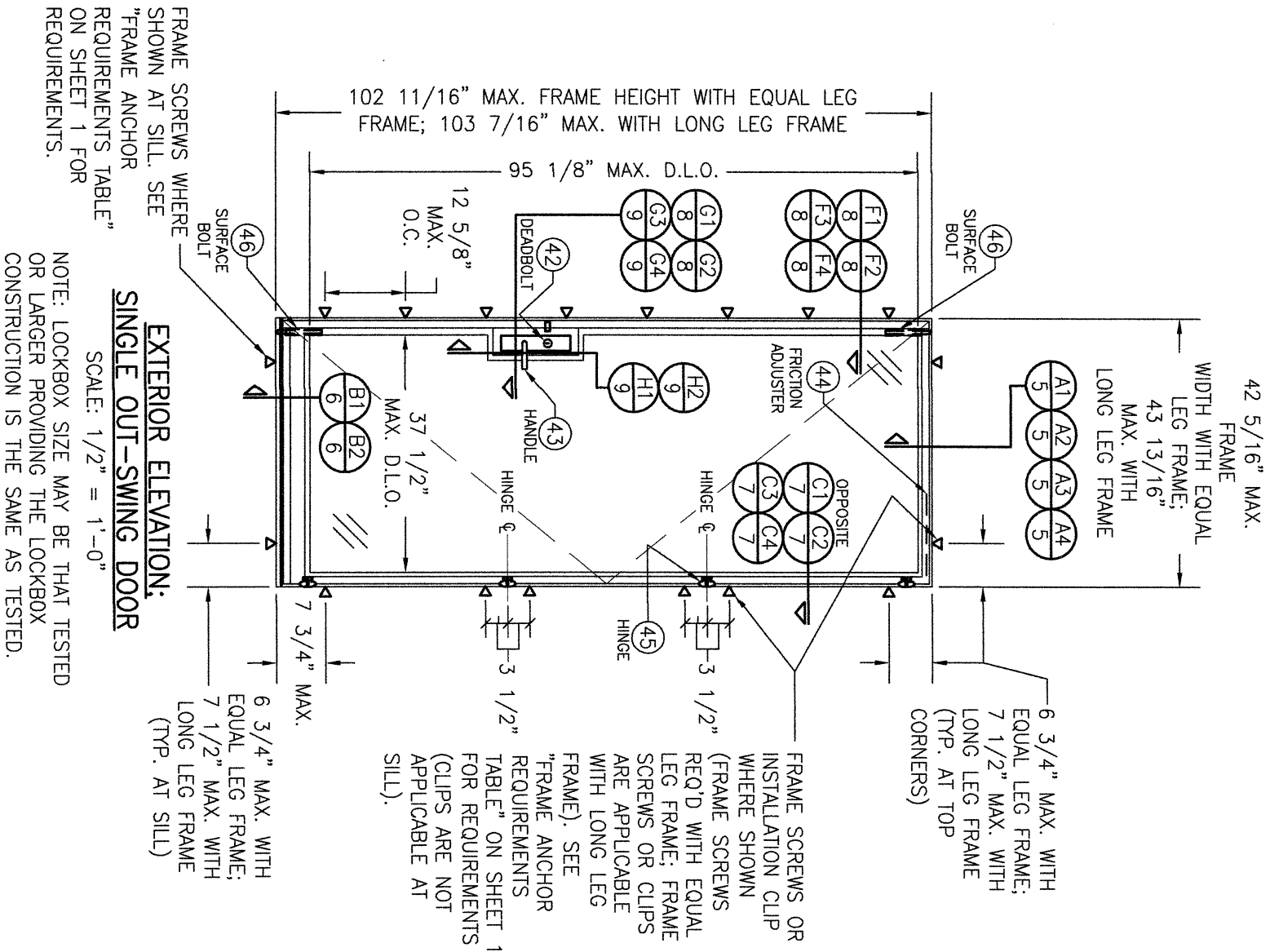
NOTE: WHEN MEETING STILE ASTRAGAL (ITEM #22) IS NOT USED, THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT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

FRAME 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").

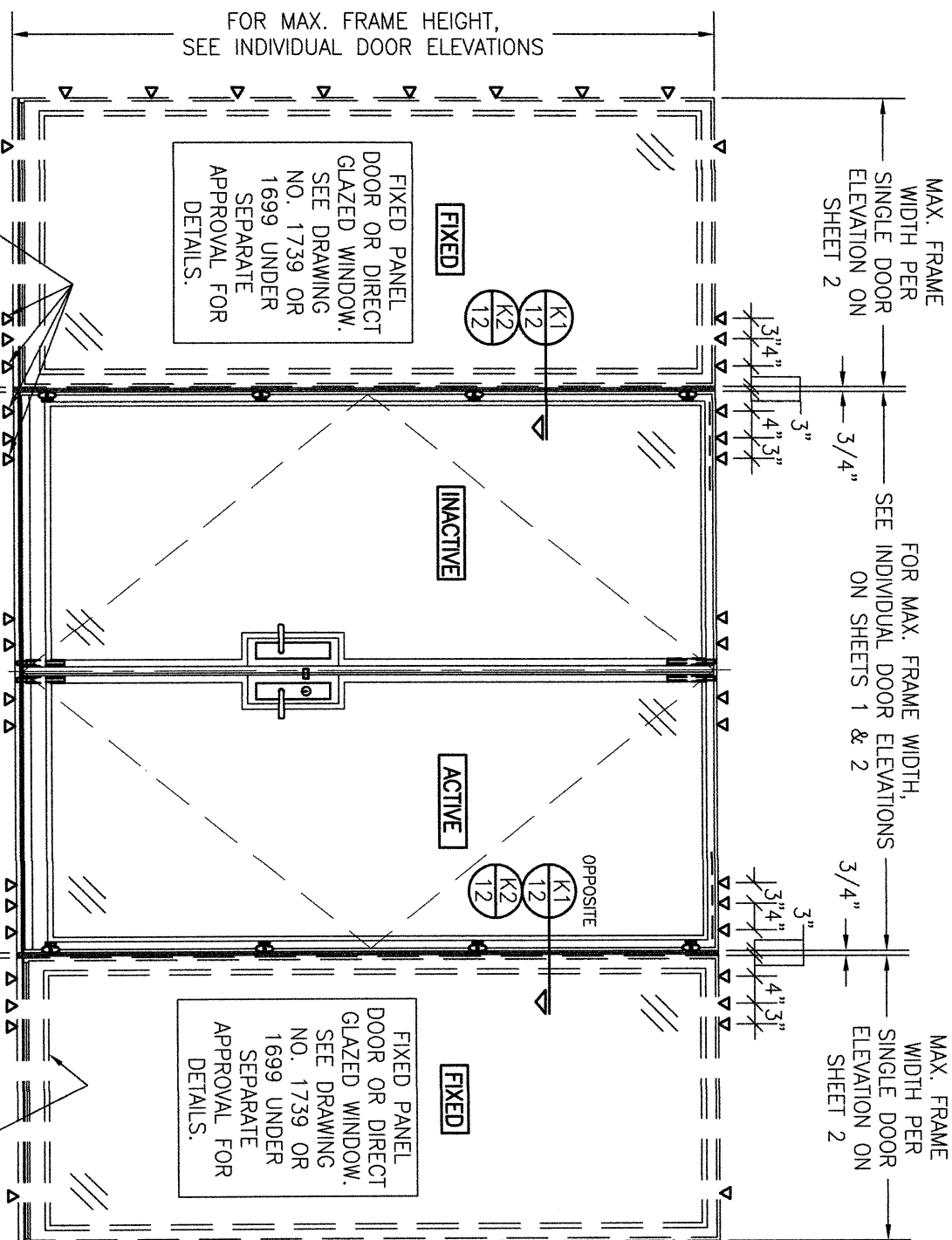




NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE	CONSULTANTS	MANUFACTURER
LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD STILES AND RAILS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSSEN 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.	SHEET NO.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1881A C	2 OF 14



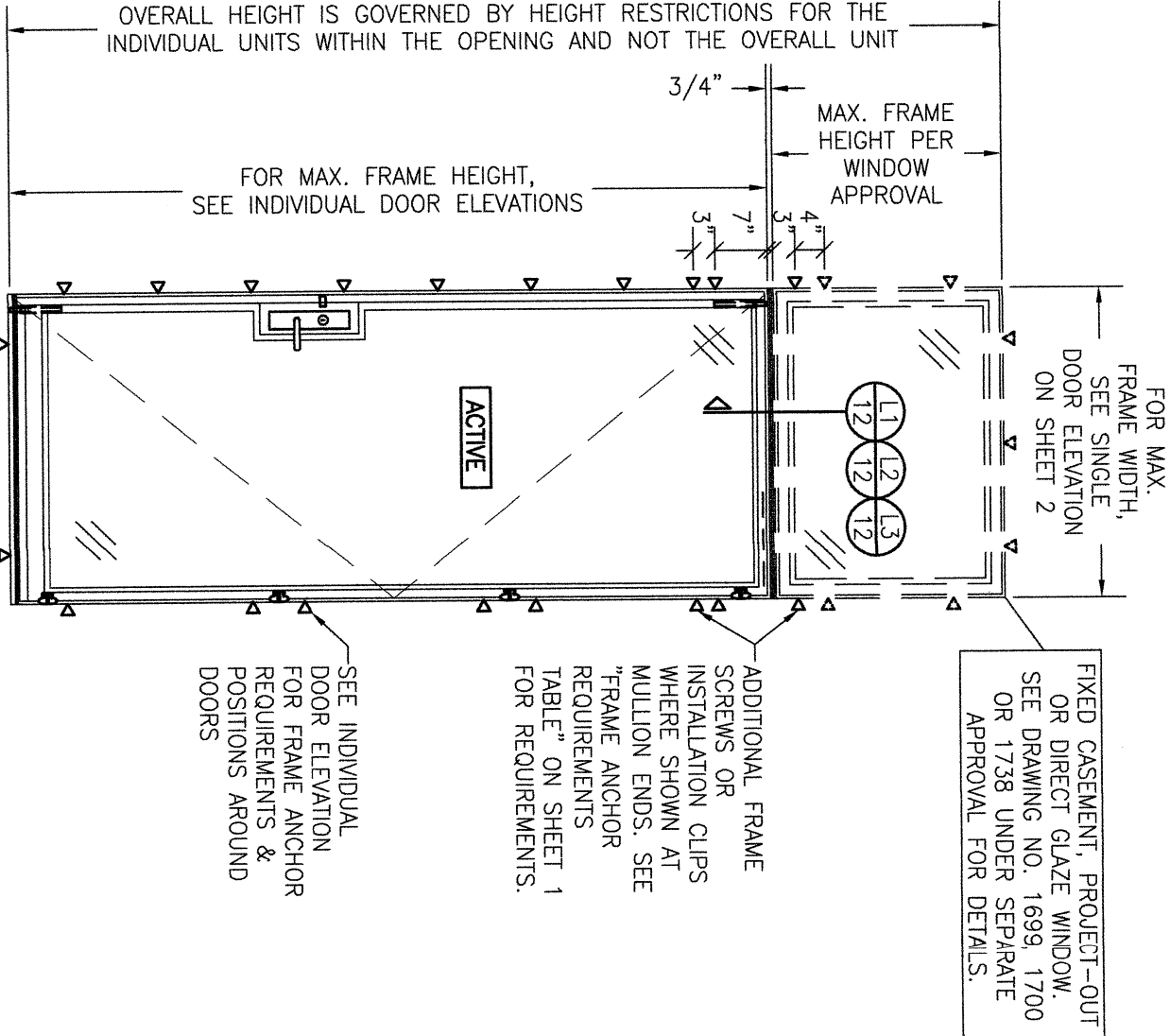
ADDITIONAL FRAME SCREWS WHERE SHOWN AT HEAD & SILL. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

EXTERIOR ELEVATION: SIDE-BY-SIDE MULLIED UNITS

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

0-XX-0 UNIT IS SHOWN. ANY COMBINATION OF OPERABLE TO FIXED, OPERABLE OR FIXED TO FIXED MAY APPLY WITH THE MULLION CONDITIONS SHOWN, INCLUDING XX-XX UNITS.

BOTTOM RAIL NOTE: IF A JAMESTOWN 175 FIXED PANEL DOOR IS USED AS A SIDELIGHT, THE DOOR PANEL'S BOTTOM RAIL MAY BE CONSTRUCTED THE SAME AS THAT OF THE LANDMARK DOORS APPROVED HERE-IN.



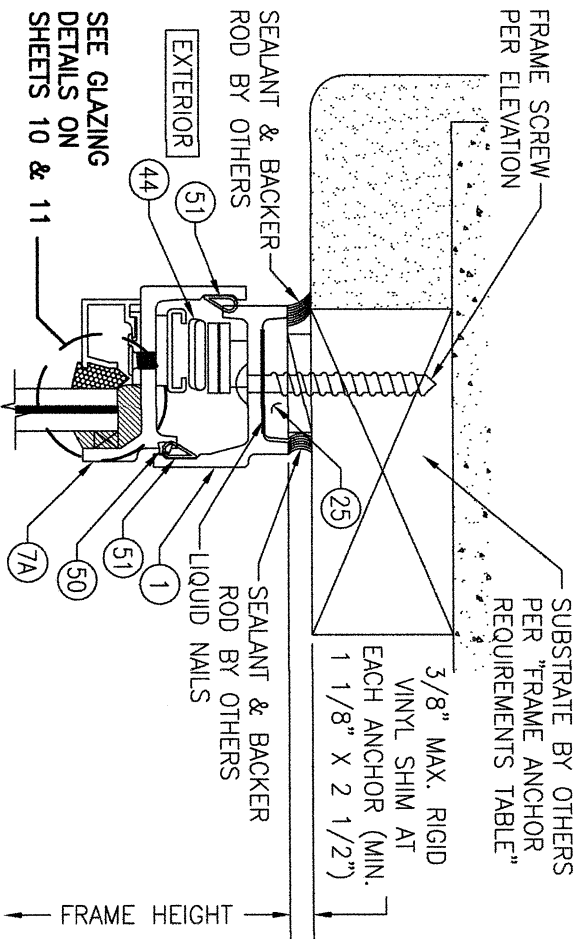
EXTERIOR ELEVATION: SINGLE DOOR MULLIED TO TRANSOM

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

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

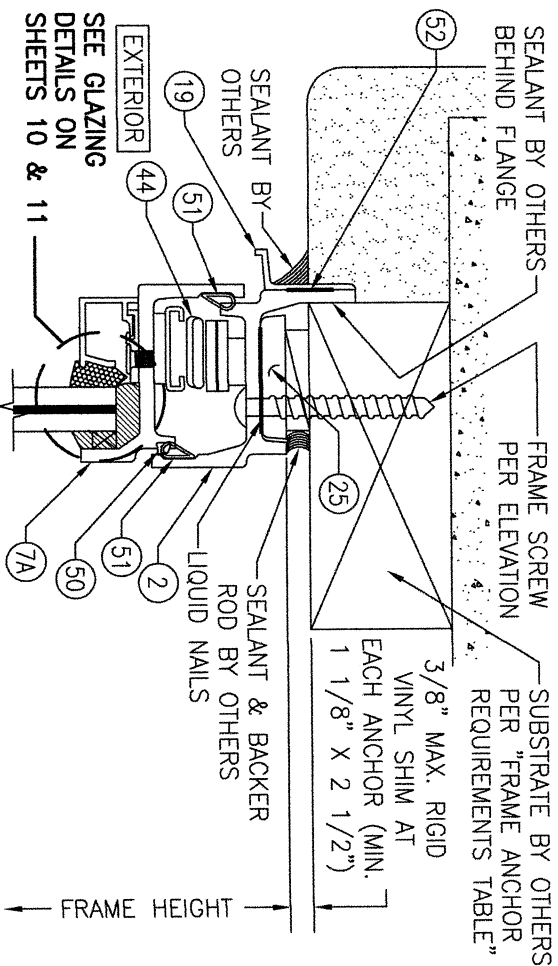
- MULTIPLE UNIT NOTES:**
- FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
 - THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
 - ANY COMBINATION 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. 1881A		REV. C	WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING TITLE		NO.	REVISION	DESCRIPTION	BY	DATE	PLOT: 1-24	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
				LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD STILES AND RAILS									
SHEET NO. 3 OF 14		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							DATE: 12/04/13		



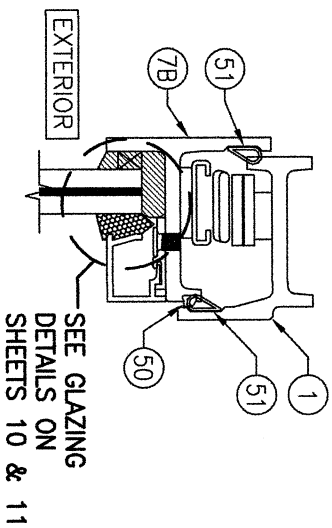
SECTION A1
SCALE: 1/2 FULL
EQUAL LEG FRAME; EXTERIOR
GLAZED CONDITION

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



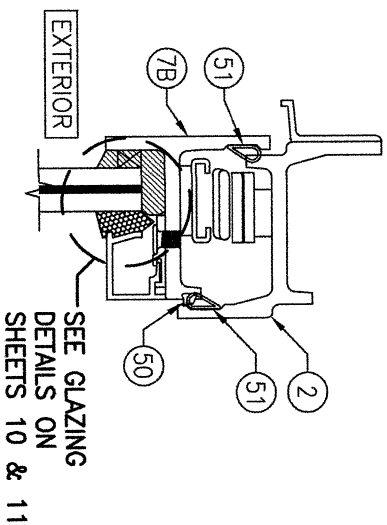
SECTION A2
SCALE: 1/2 FULL
LONG LEG FRAME; EXTERIOR
GLAZED CONDITION

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

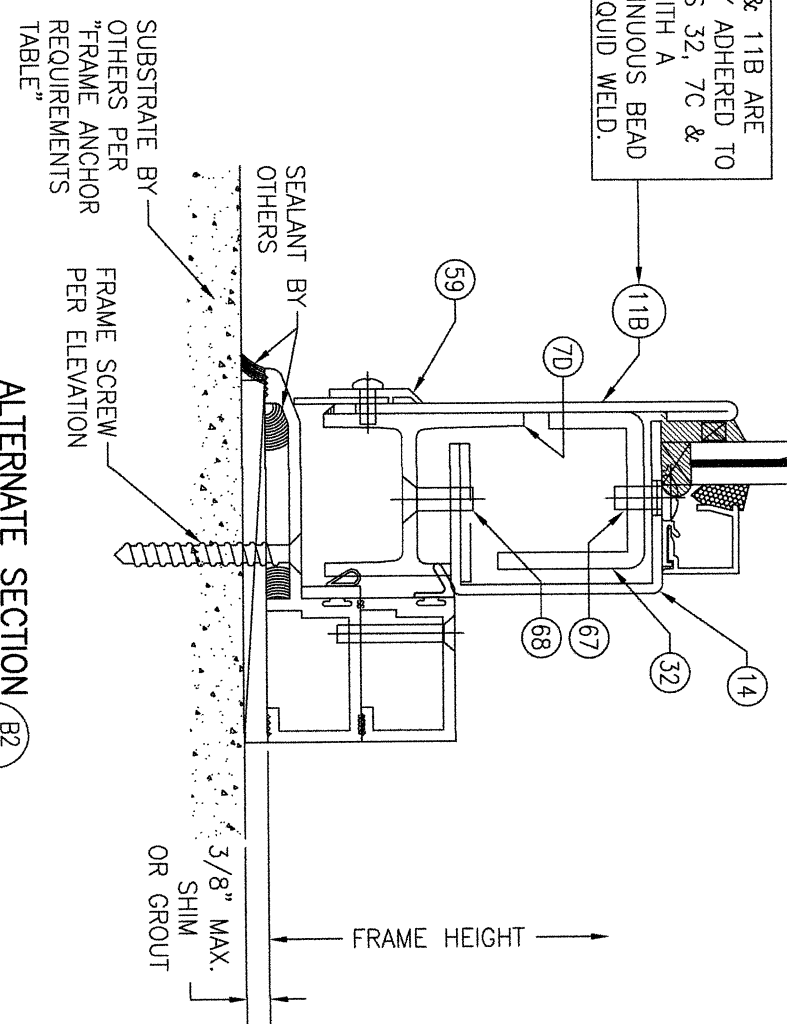
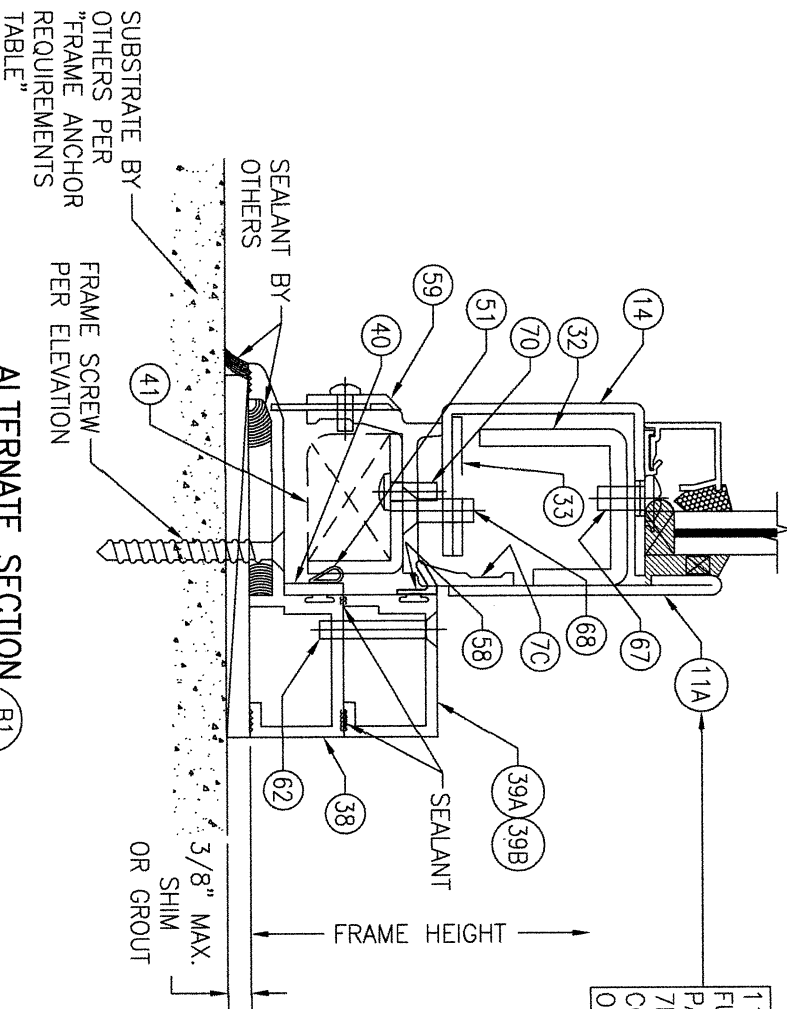
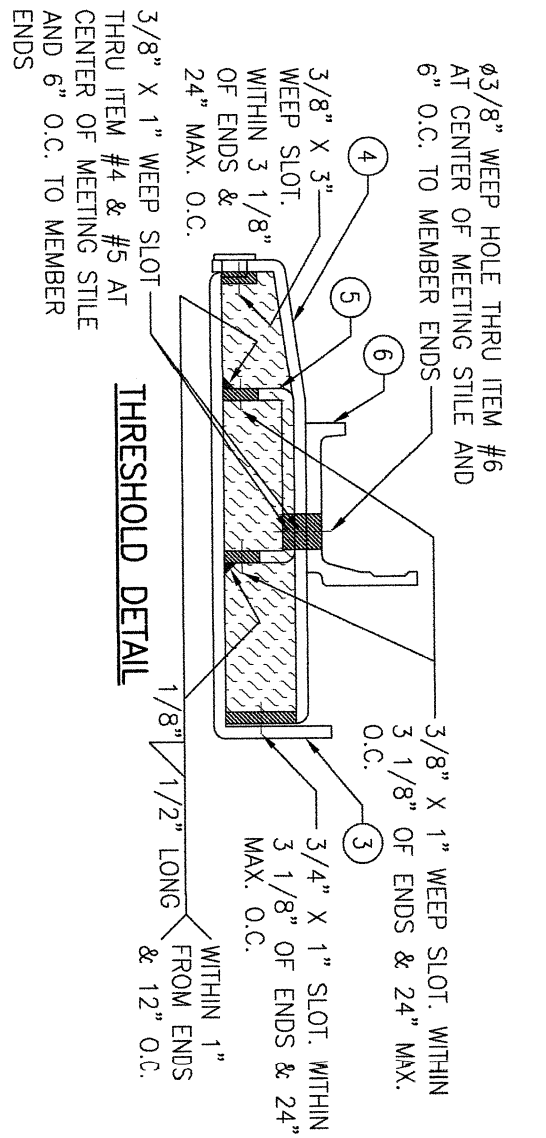
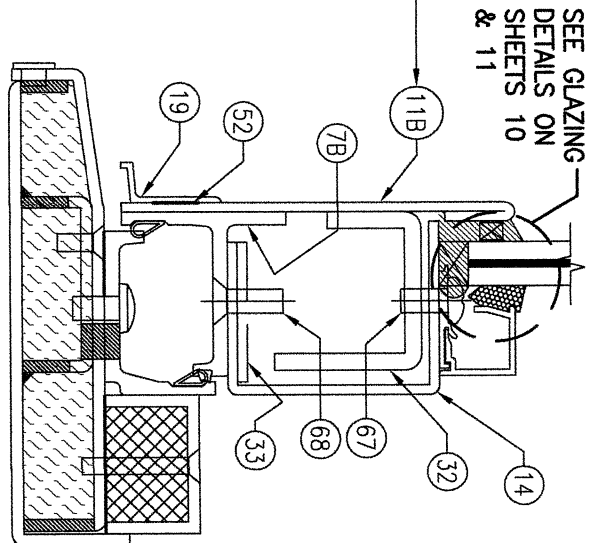
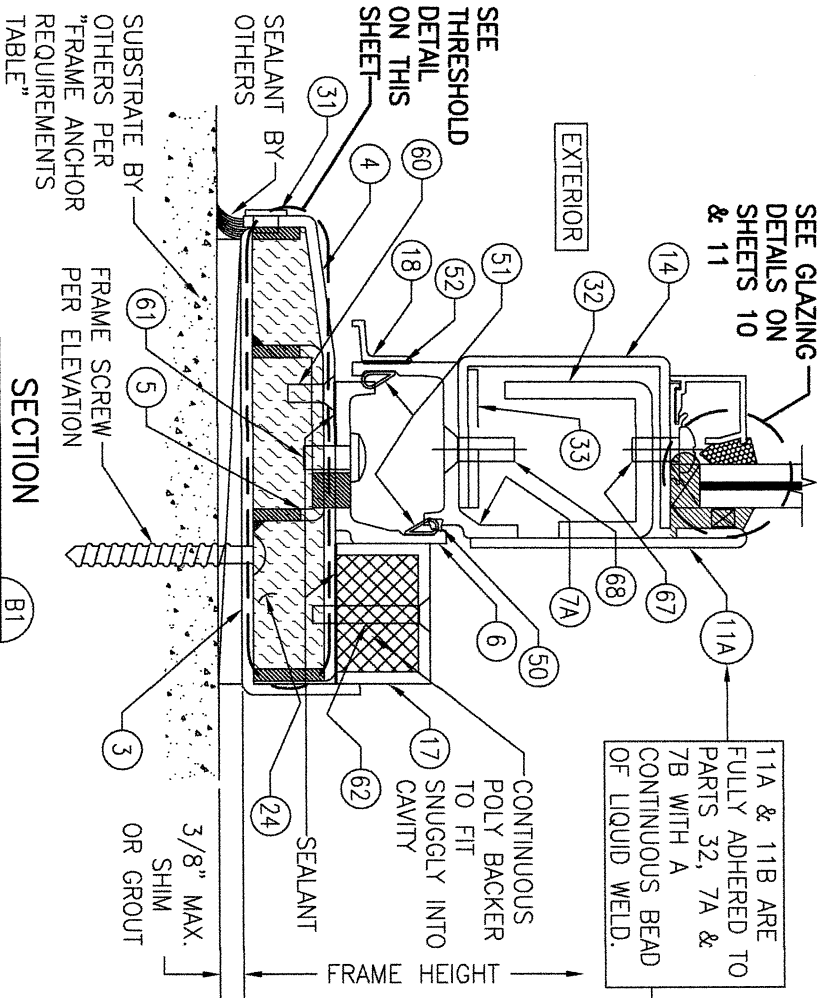
(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION A2/5)

NO.	REVISION	DESCRIPTION	BY	DATE
1-2				

DRAWING TITLE	CONSULTANTS	MANUFACTURER
LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD 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

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DRAWING NO.	REV.
1881A	C
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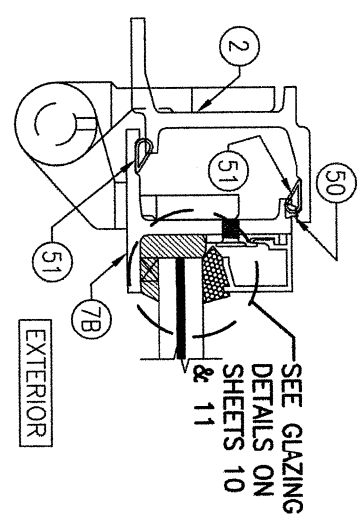
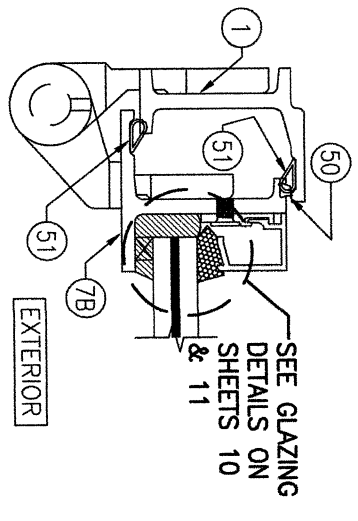
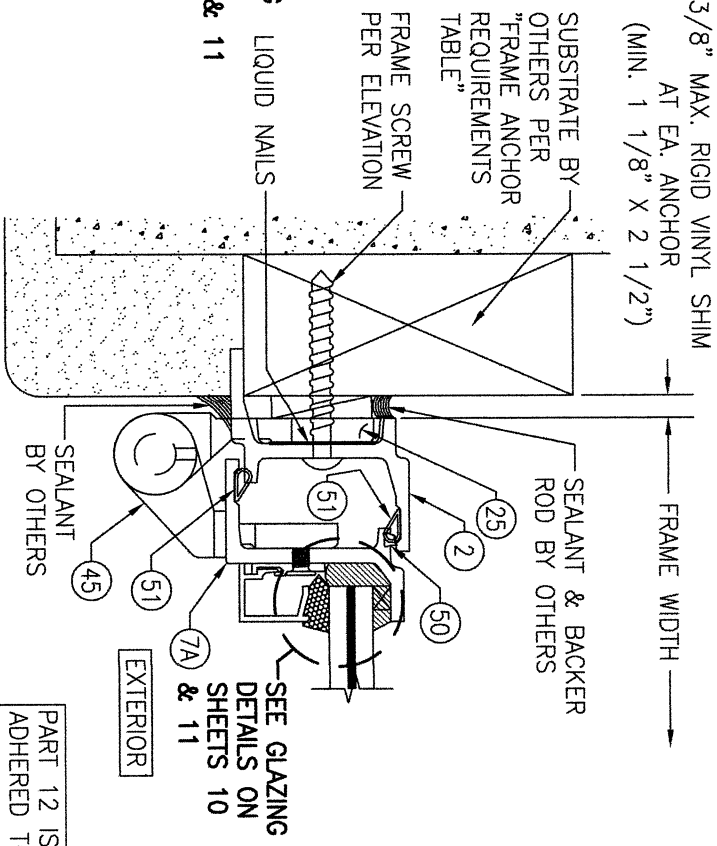
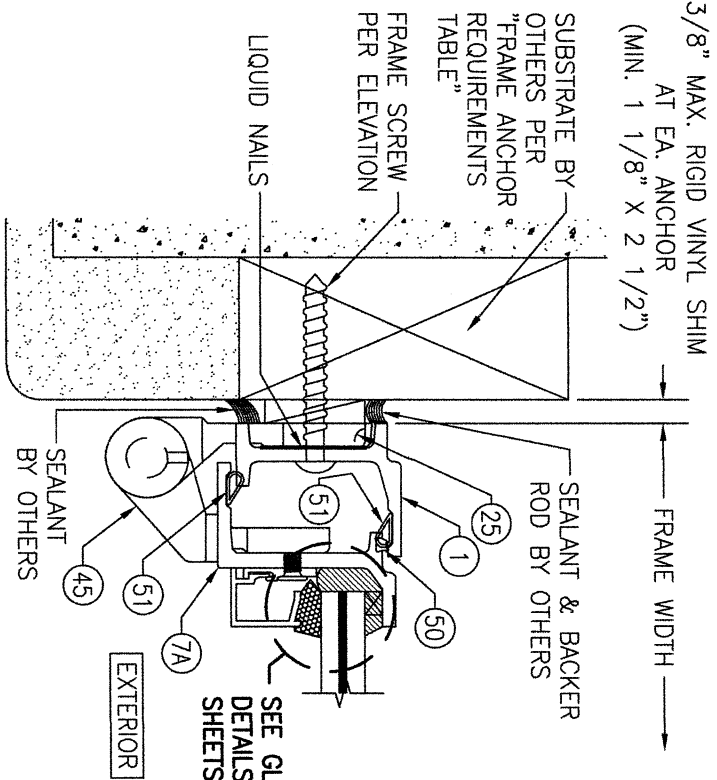
MANUFACTURER
HOPE'S WINDOWS, INC.
84 HOPKINS AVENUE
JAMESTOWN, NY 14702
(716) 665-5124

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

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
25601 AYSEN DRIVE
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CERTIFICATION
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. **1881A**
REV. **C**
SHEET NO. **6** OF **14**



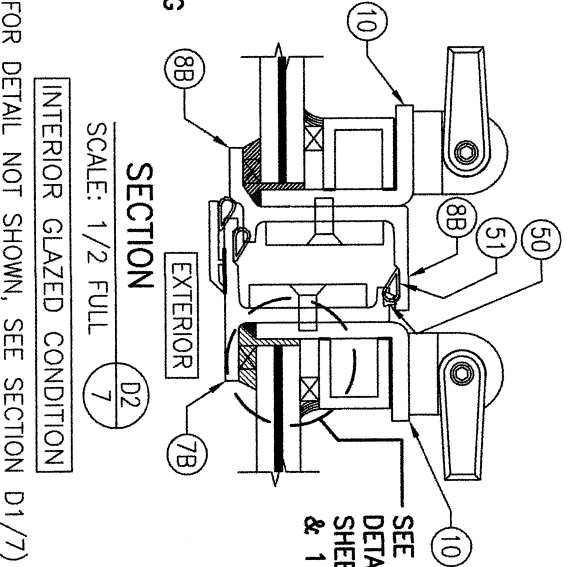
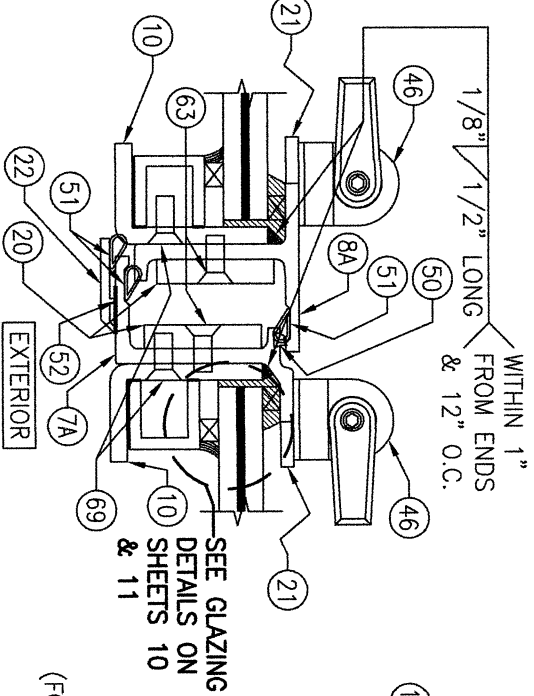
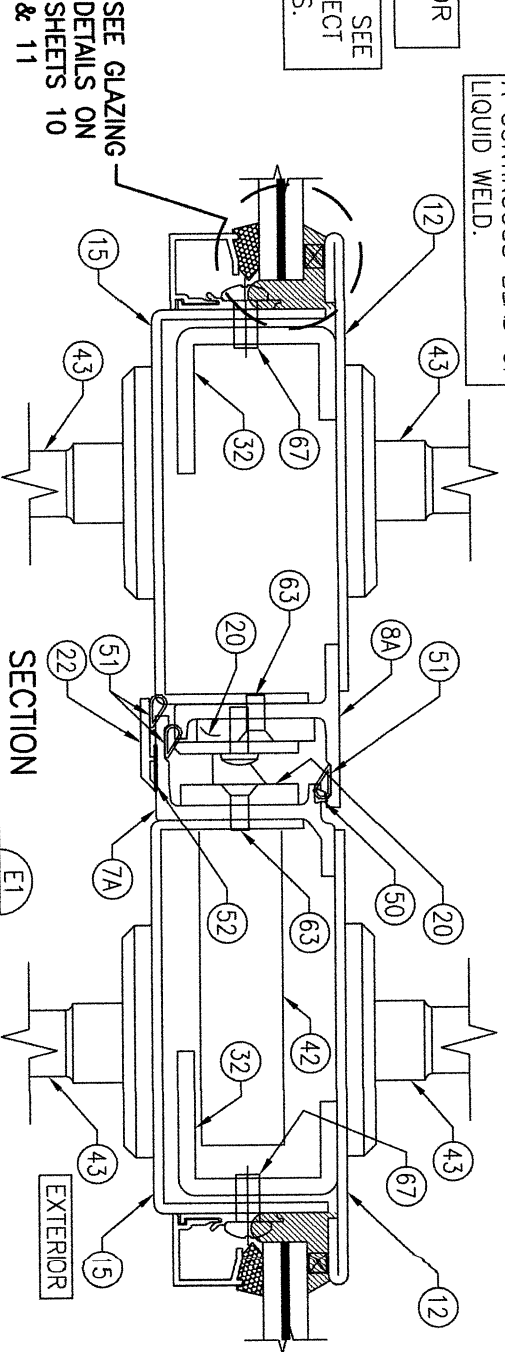
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(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION C2/7)

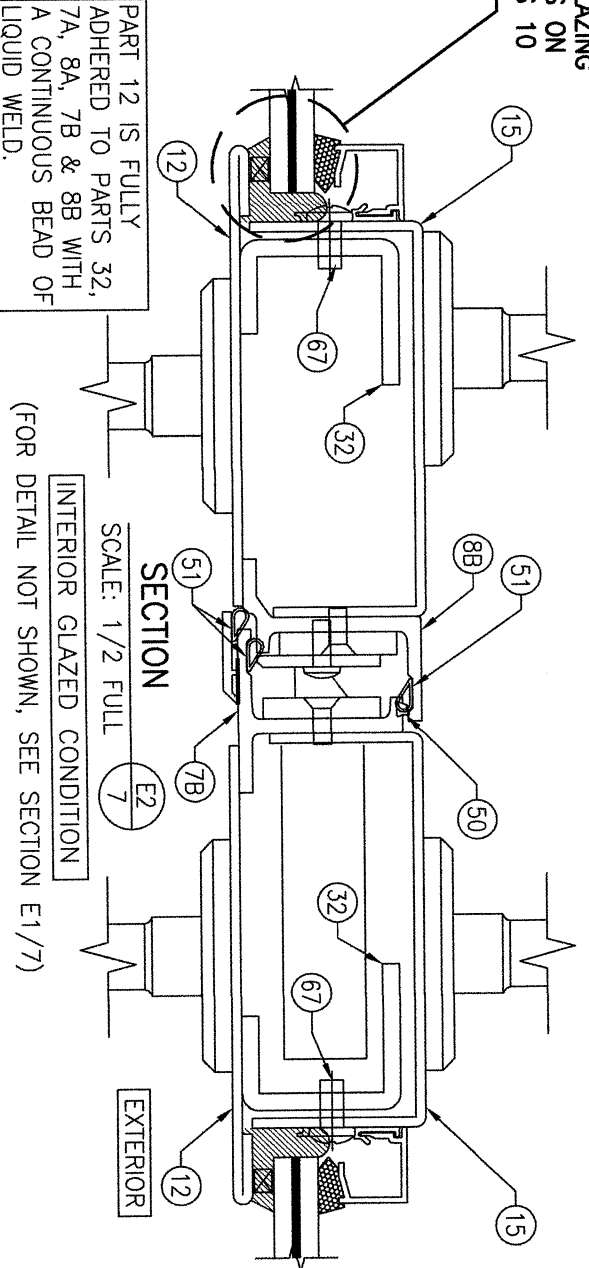
FRAME SCREW MOUNT SHOWN. SEE DETAIL ON SHEET 10 FOR DIRECT MOUNT DETAIL. CLIP MOUNT IS NOT APPLICABLE WITH EQUAL LEG FRAME.

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

PART 12 IS FULLY ADHERED TO PARTS 32, 7A, 8A, 7B & 8B WITH A CONTINUOUS BEAD OF LIQUID WELD.



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



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

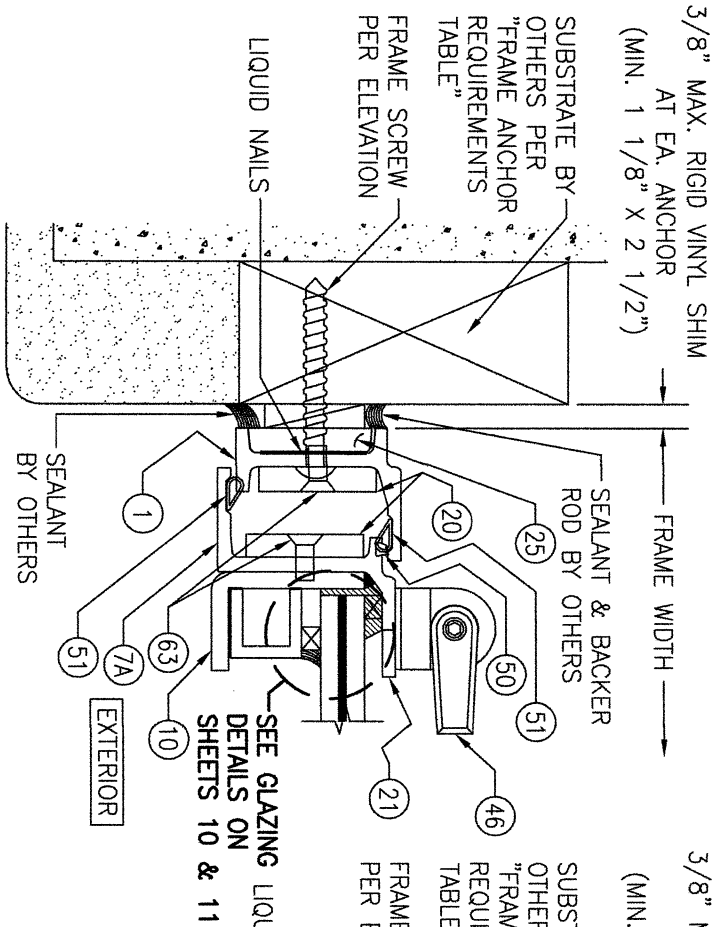
DRAWN BY: W.R.M.		CHECKED BY: W.M.S.		
DATE: 12/04/13				
PLLOT: 1=2	NO.	REVISION DESCRIPTION	BY	DATE

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

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25601 AYSEN DRIVE
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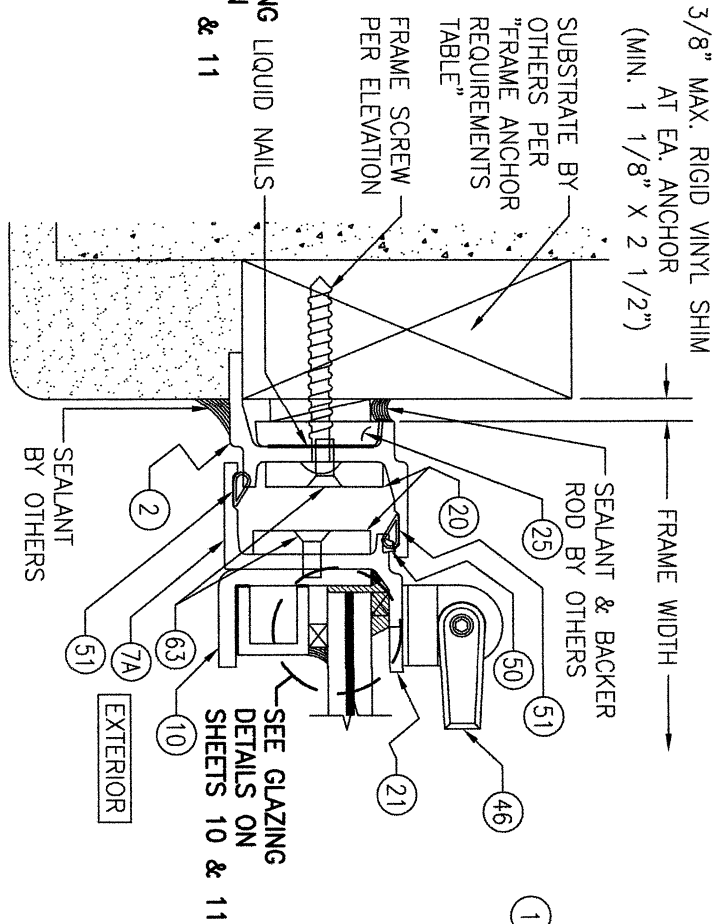
MANUFACTURER
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CERTIFICATION	DRAWING NO.	REV.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1881A	C
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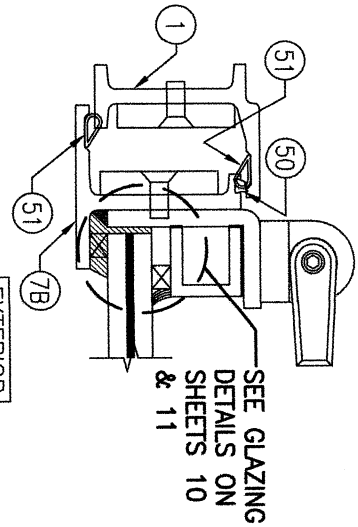
EQUAL LEG FRAME; EXTERIOR GLAZED CONDITION

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



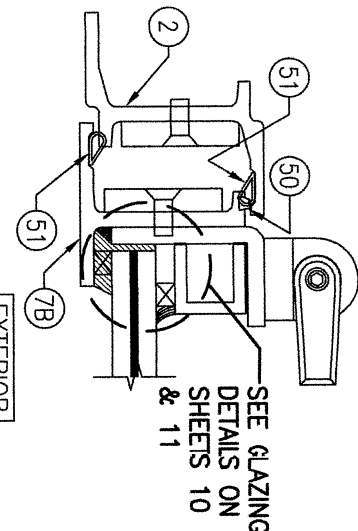
LONG LEG FRAME; EXTERIOR GLAZED CONDITION

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



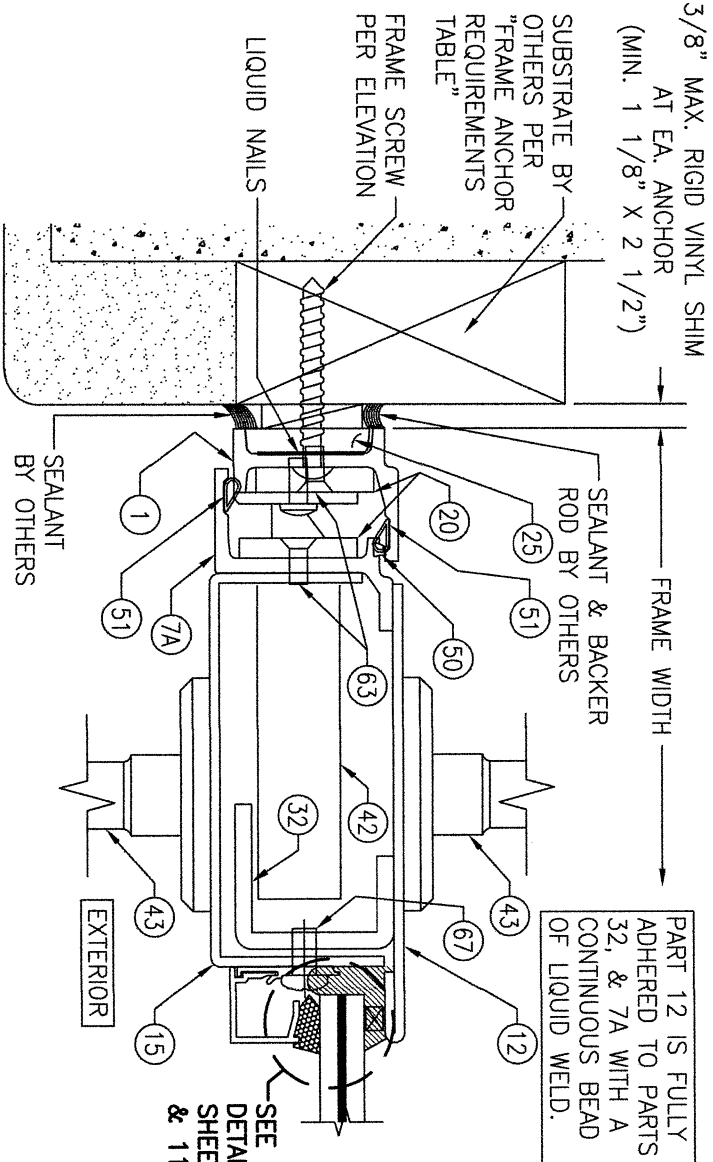
EQUAL LEG FRAME; INTERIOR GLAZED CONDITION

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



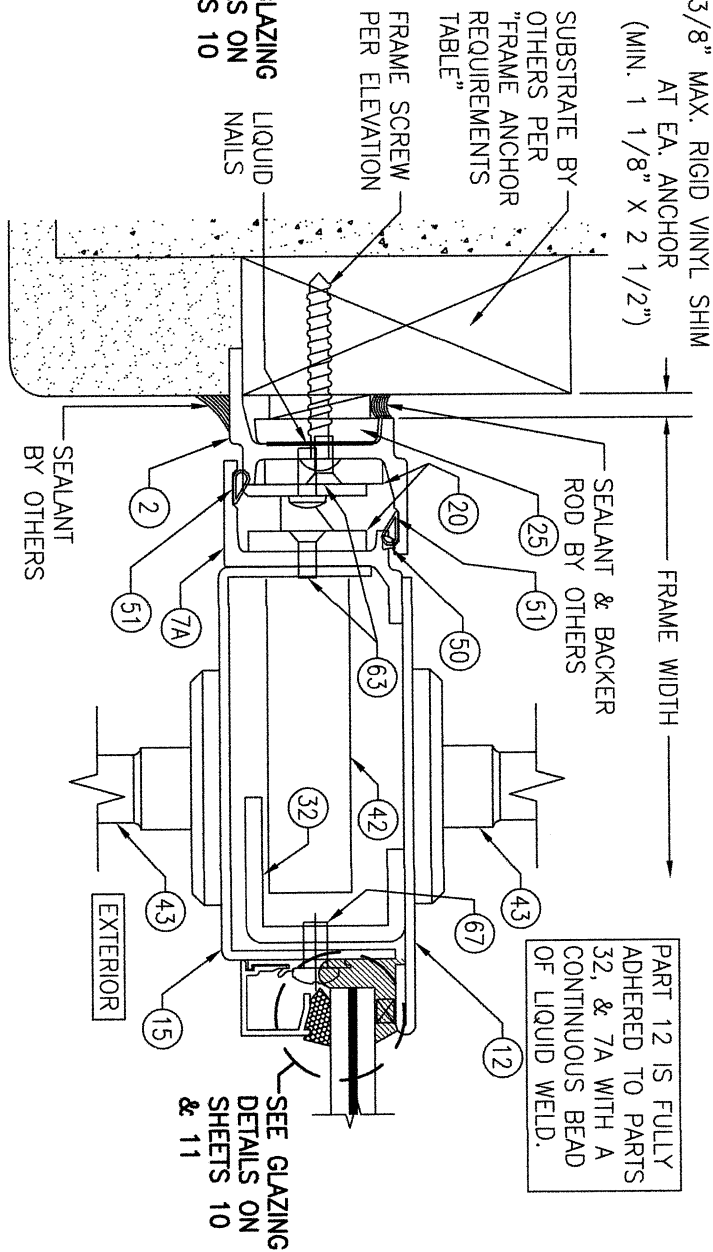
LONG LEG FRAME; INTERIOR GLAZED CONDITION

(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

MANUFACTURER

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

DRAWING TITLE

LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD STILES AND RAILS

CONSULTANTS

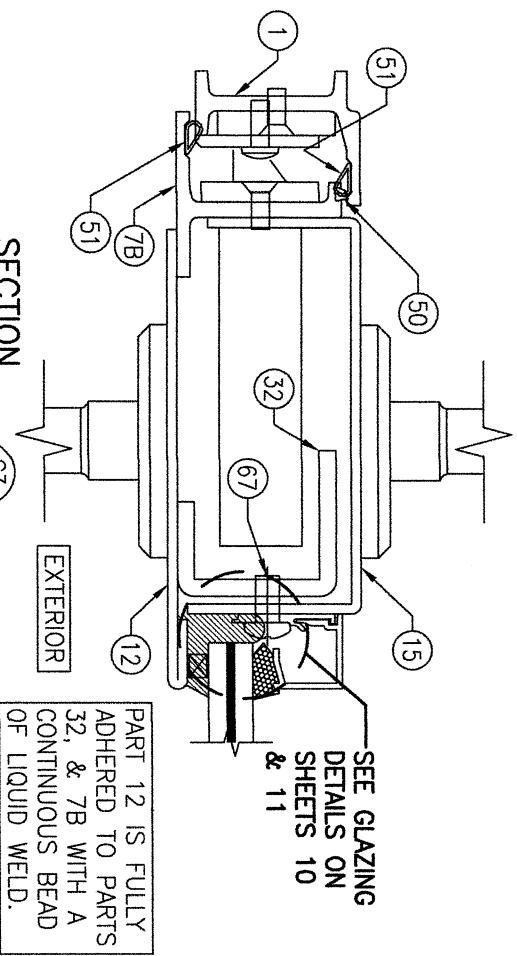
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
25601 AYSAN DRIVE
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PHONE: 561-744-3424

CERTIFICATION

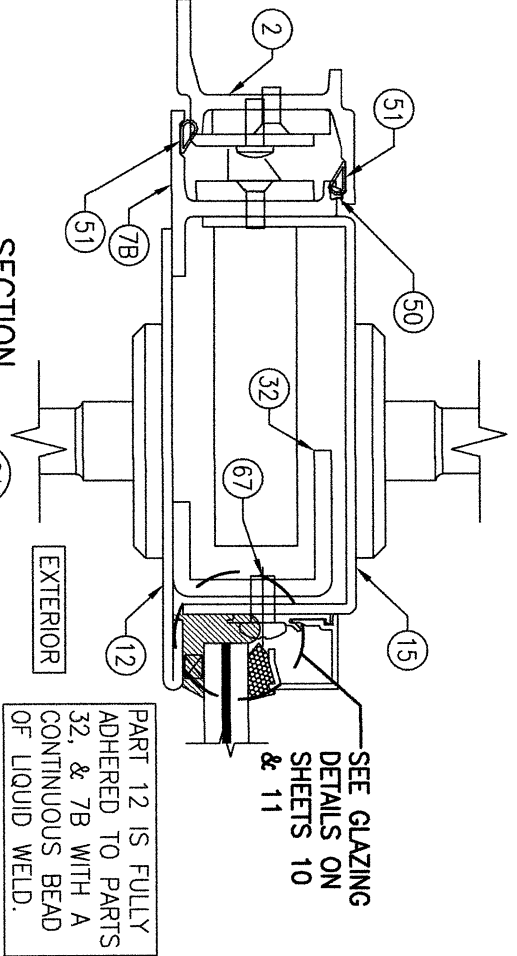
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1881A C

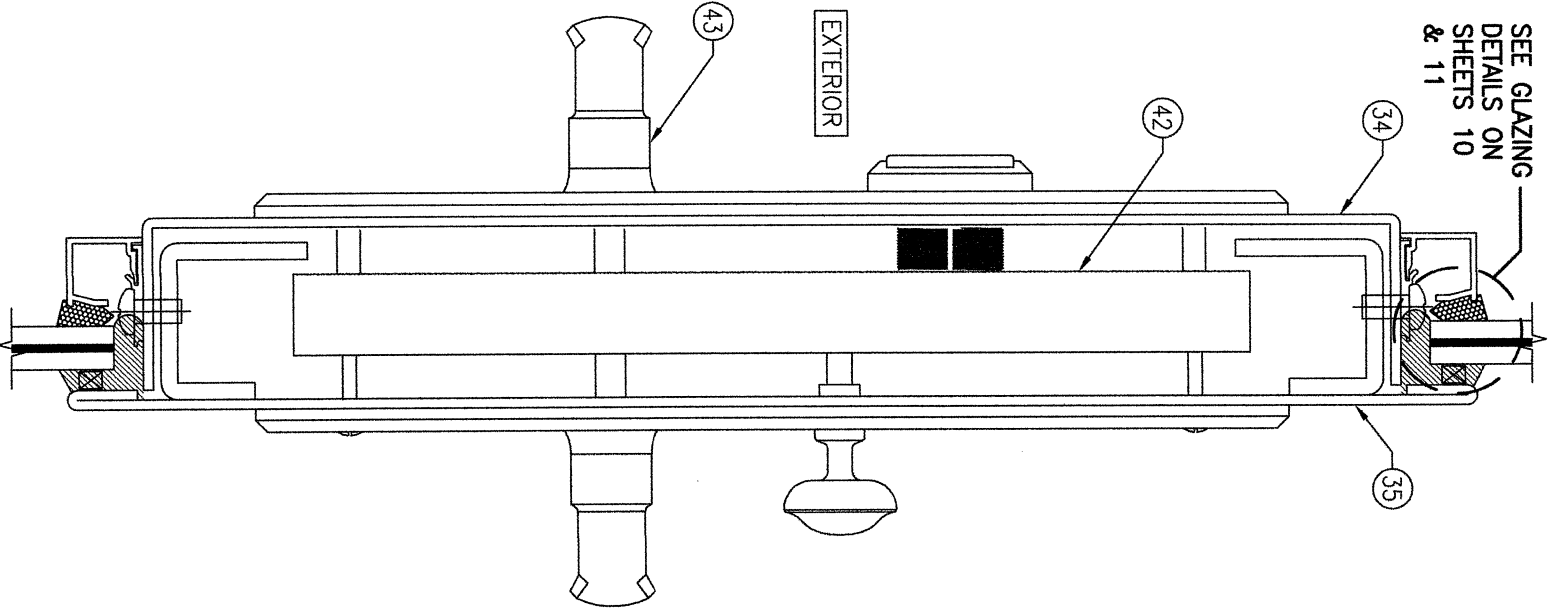
SHEET NO. 8 OF 14



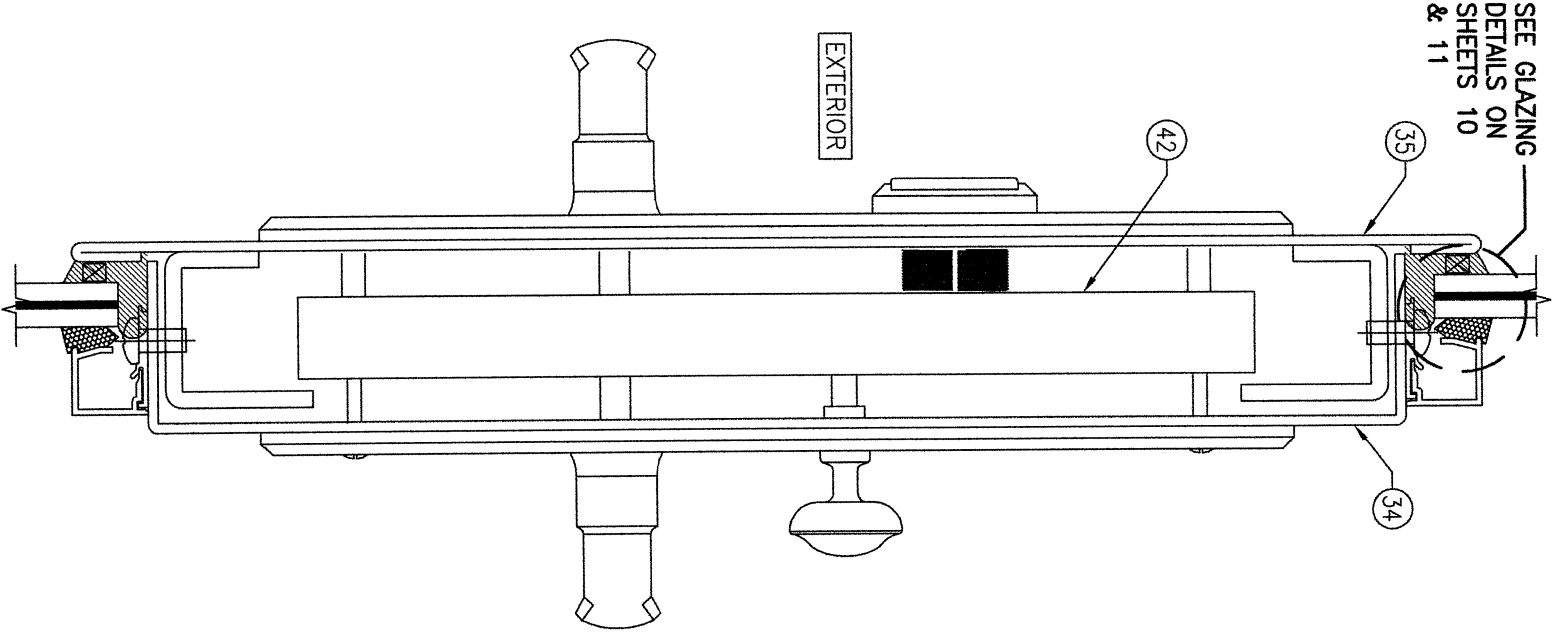
SECTION G3
SCALE: 1/2 FULL
EQUAL LEG FRAME; INTERIOR
GLAZED CONDITION
(FOR INSTALLATION & OTHER DETAIL
NOT SHOWN, SEE SECTION G1/8)



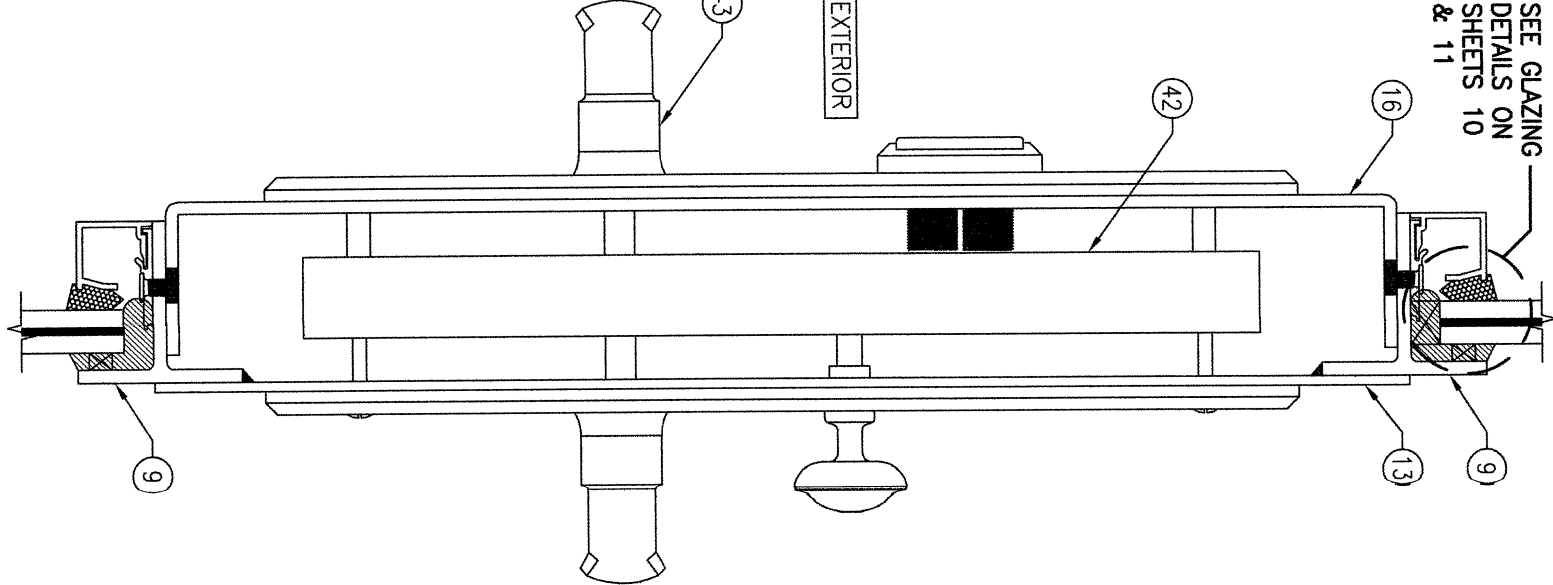
SECTION G4
SCALE: 1/2 FULL
LONG LEG FRAME; INTERIOR
GLAZED CONDITION
(FOR INSTALLATION & OTHER DETAIL
NOT SHOWN, SEE SECTION G2/8)



SECTION H1
SCALE: 1/2 FULL
EXTERIOR GLAZED CONDITION
WHEN NO MID-RAILS EXIST



SECTION H2
SCALE: 1/2 FULL
INTERIOR GLAZED CONDITION
WHEN NO MID-RAILS EXIST
(FOR DETAIL NOT SHOWN, SEE SECTION H3/9)

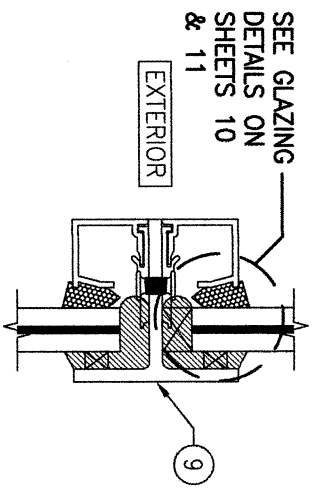


SECTION H3
SCALE: 1/2 FULL
EXTERIOR GLAZED CONDITION
WHEN MID-RAILS EXIST

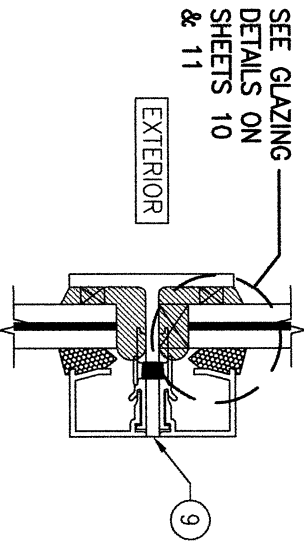
NO.	REVISION	DESCRIPTION	BY	DATE
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DRAWING TITLE LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD STILES AND RAILS	MANUFACTURER HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	

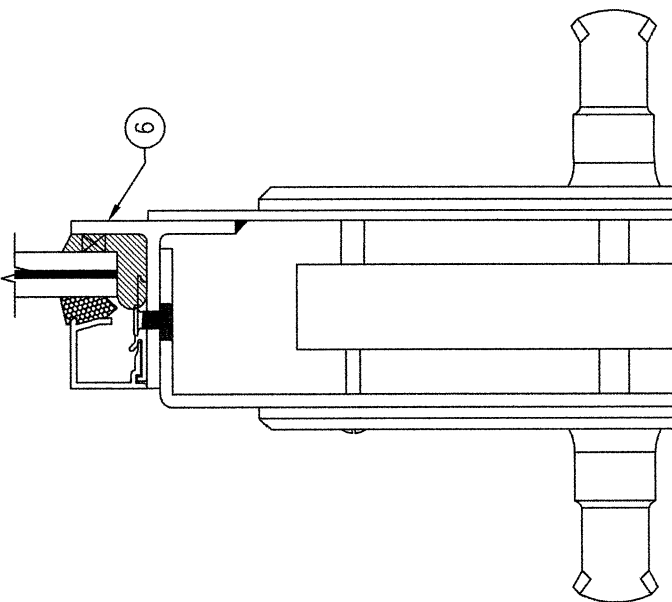
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. REV. 1881A C	SHEET NO. 9 OF 14
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SECTION J1
SCALE: 1/2 FULL
EXTERIOR GLAZED CONDITION

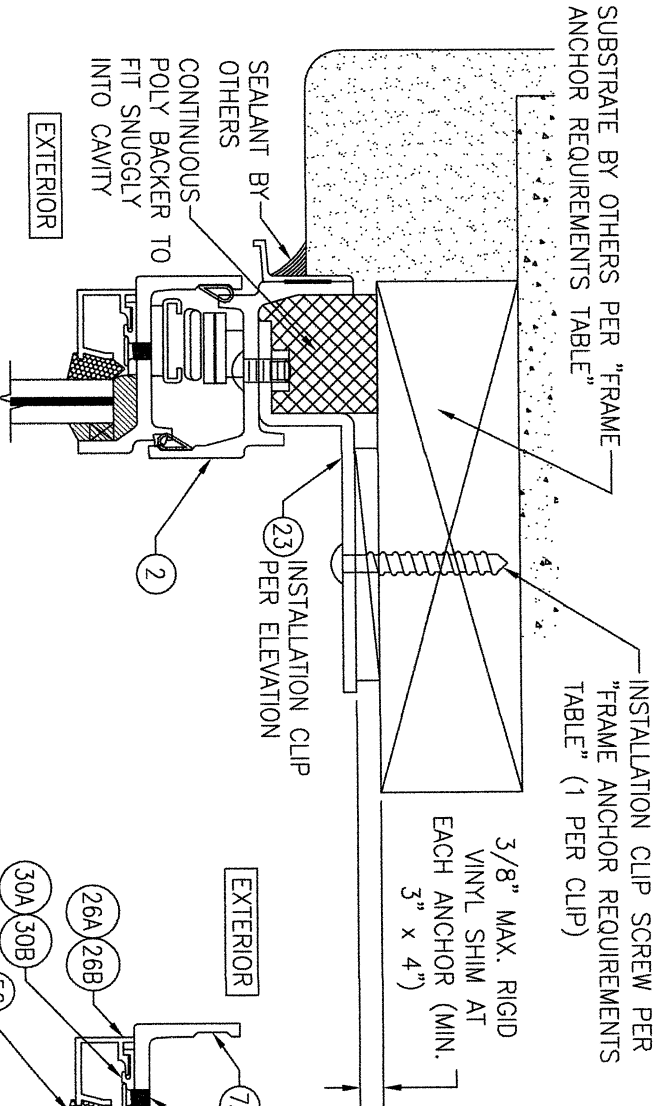


SECTION J2
SCALE: 1/2 FULL
INTERIOR GLAZED CONDITION



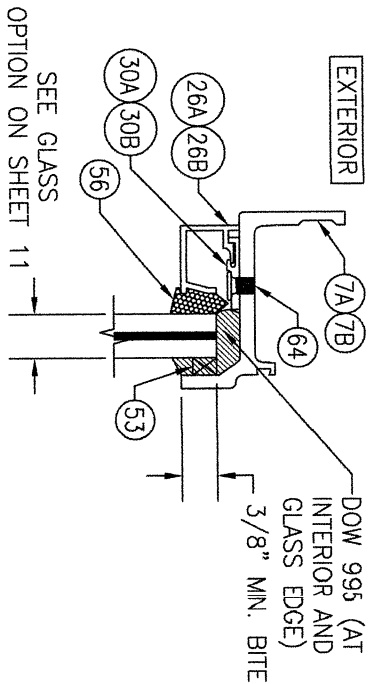
SECTION H4
SCALE: 1/2 FULL
INTERIOR GLAZED CONDITION WHEN MID-RAILS EXIST

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

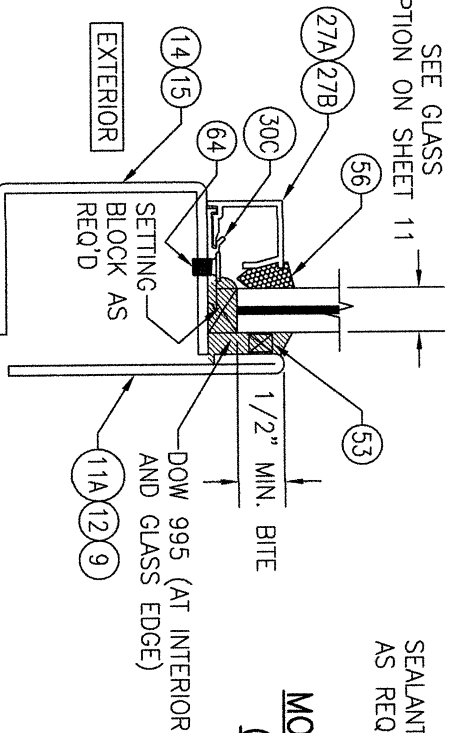
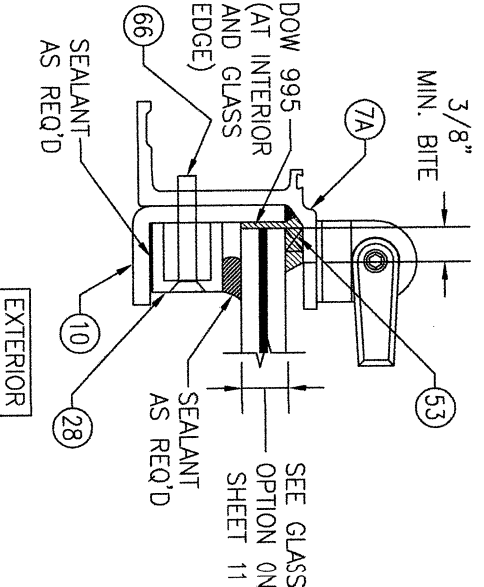


OPTIONAL INSTALLATION CLIP MOUNT DETAIL
(HEAD SECTION SHOWN. SIDES ARE INSTALLED THE SAME. SILL IS INSTALLED SIMILAR.)
(EXTERIOR GLAZED CONDITION SHOWN. INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

MONOLITHIC GLAZING DETAIL 1
(APPLICABLE TO EXTERIOR GLAZED TOP RAIL & HINGE STYLE)

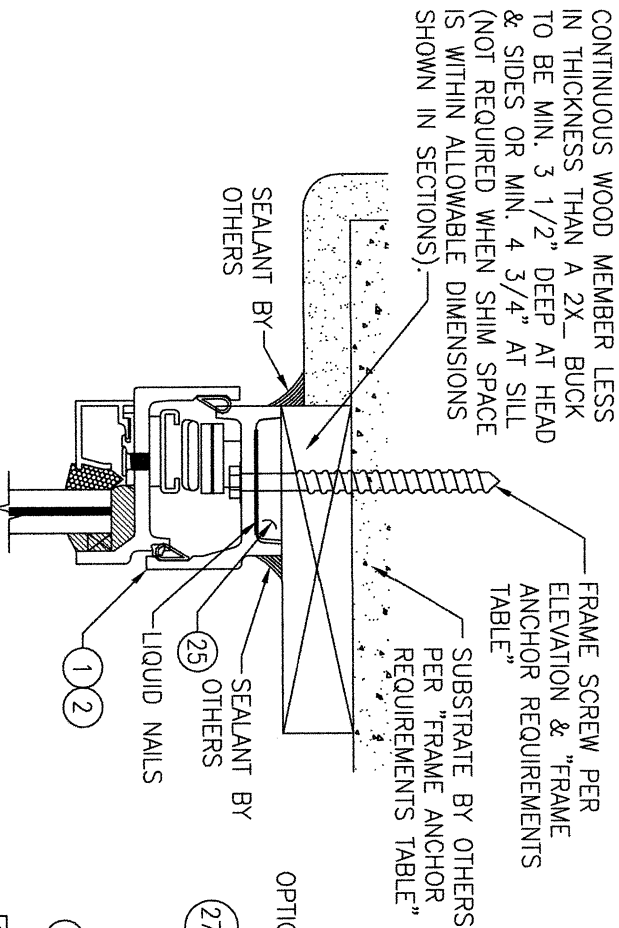


MONOLITHIC GLAZING DETAIL 3
(APPLICABLE TO EXTERIOR GLAZED LOCK STYLE & MEETING STYLE)



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

OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

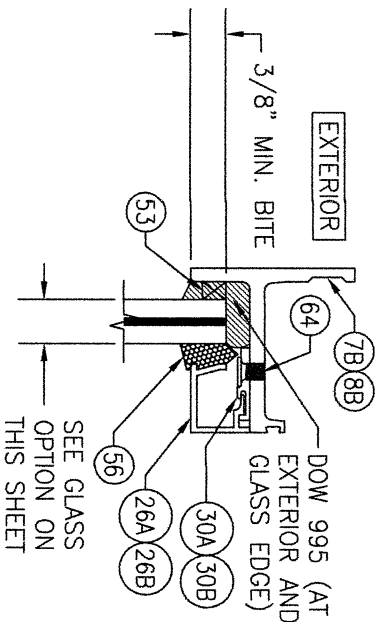


(HEAD SECTION SHOWN. SIDES ARE INSTALLED THE SAME. SILL IS INSTALLED SIMILAR.)
(EXTERIOR GLAZED CONDITION SHOWN. INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

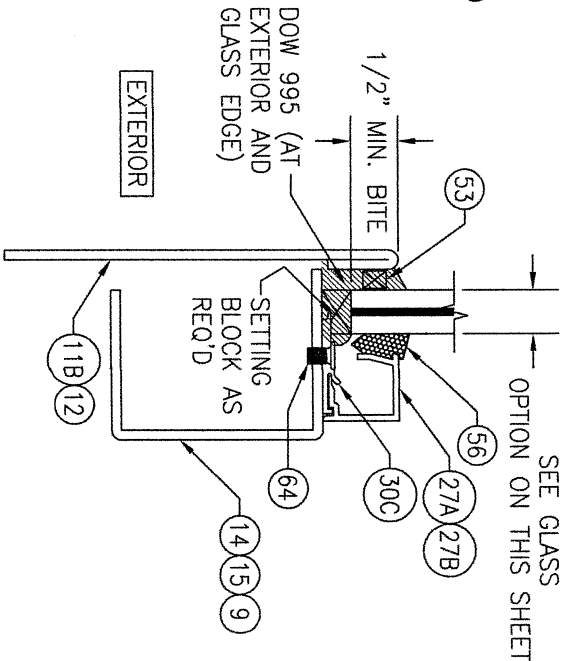
NO.	REVISION	DESCRIPTION	BY	DATE
1-2				12/04/13

DRAWING TITLE	CONSULTANTS	MANUFACTURER
LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD 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

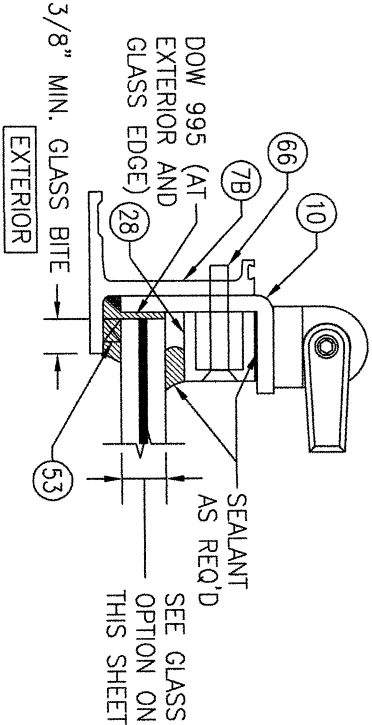
CERTIFICATION	DRAWING NO.	REV.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1881A	C
	SHEET NO.	10 OF 14



MONOLITHIC GLAZING DETAIL 4
(APPLICABLE TO INTERIOR GLAZED
TOP RAIL & HINGE STILE)

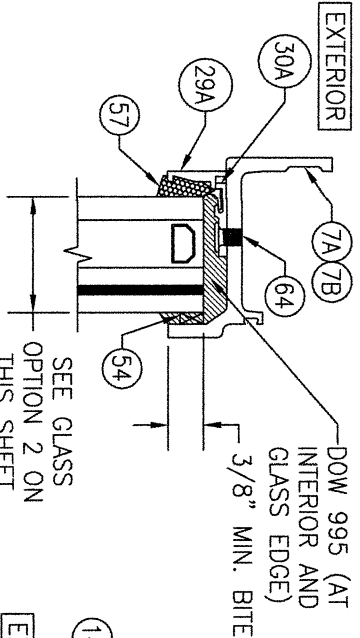


MONOLITHIC GLAZING DETAIL 5
(APPLICABLE TO INTERIOR GLAZED
BOTTOM RAIL, MID-RAIL & LOCK BOX)

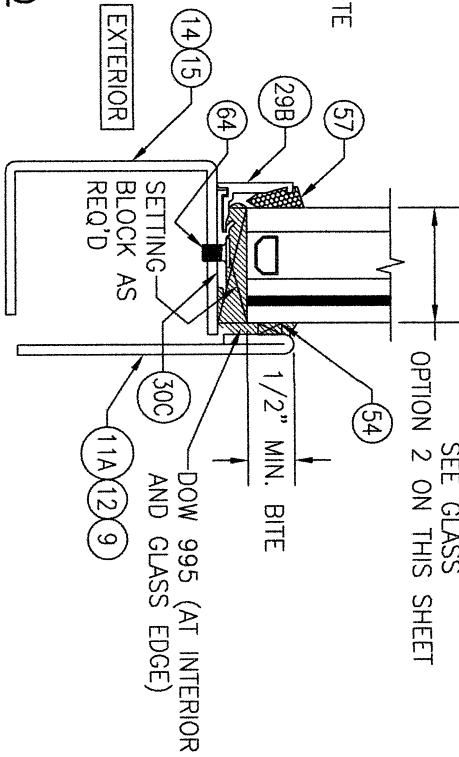


MONOLITHIC GLAZING DETAIL 6
(APPLICABLE TO INTERIOR GLAZED
LOCK STILE & MEETING STILE)

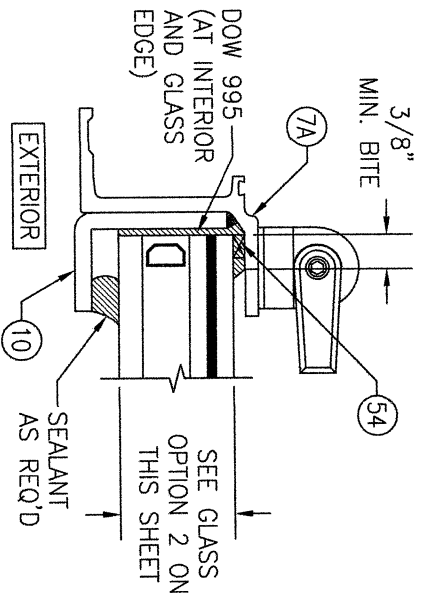
MONOLITHIC GLASS OPTIONS
OPTION 1: 7/16" LAMINATED GLASS
(3/16" H.S./0.09" KURARAY SG/3/16" H.S.)



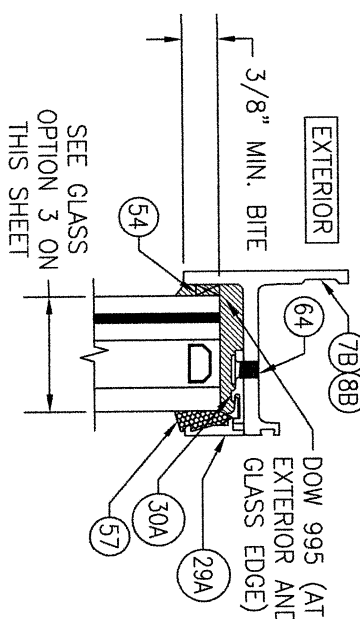
I.G. GLAZING DETAIL 1
(APPLICABLE TO EXTERIOR GLAZED
TOP RAIL & HINGE STILE)



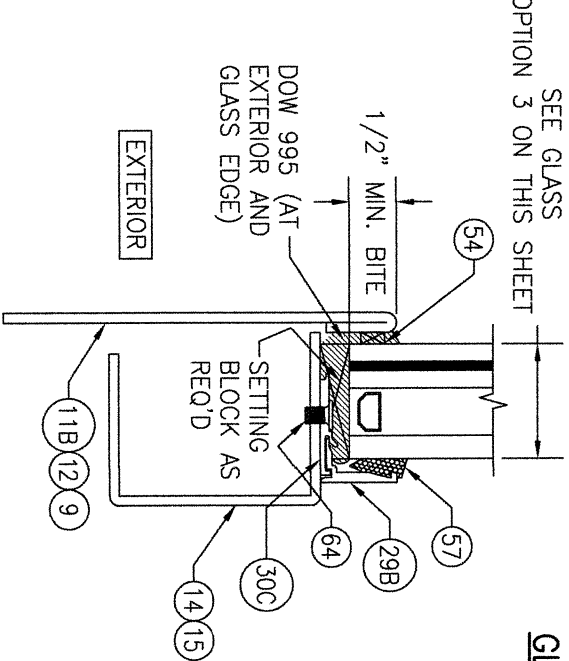
I.G. GLAZING DETAIL 2
(APPLICABLE TO EXTERIOR
GLAZED BOTTOM RAIL, MID-RAIL
& LOCK BOX)



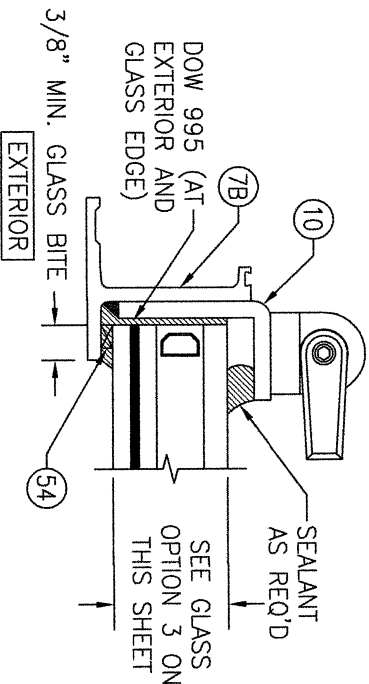
I.G. GLAZING DETAIL 3
(APPLICABLE TO EXTERIOR
GLAZED LOCK STILE &
MEETING STILE)



I.G. GLAZING DETAIL 4
(APPLICABLE TO INTERIOR GLAZED
TOP RAIL & HINGE STILE)



I.G. GLAZING DETAIL 5
(APPLICABLE TO INTERIOR GLAZED
BOTTOM RAIL, MID-RAIL & LOCK BOX)



I.G. GLAZING DETAIL 6
(APPLICABLE TO INTERIOR GLAZED
LOCK STILE & MEETING STILE)

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)

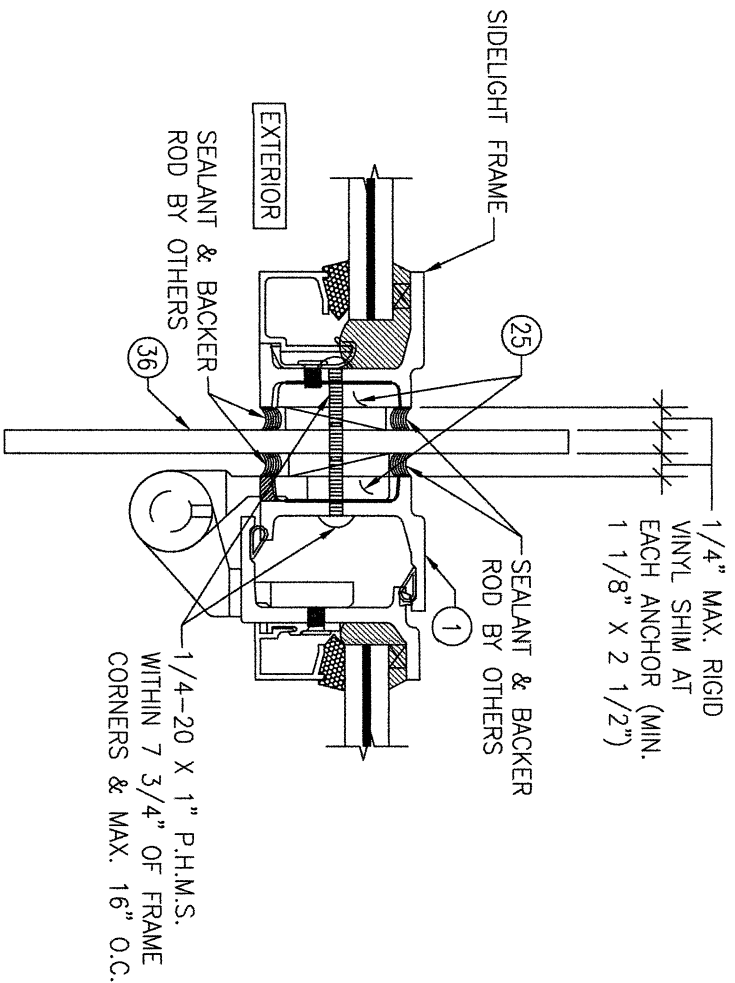
DRAWN BY:	CHECKED BY:	DATE:	DATE:	BY	REVISION	DESCRIPTION	NO.
W.R.M.	W.M.S.	12/04/13					
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MANUFACTURER
HOPE'S WINDOWS, INC.
84 HOPKINS AVENUE
JAMESTOWN, NY 14702
(716) 665-5124

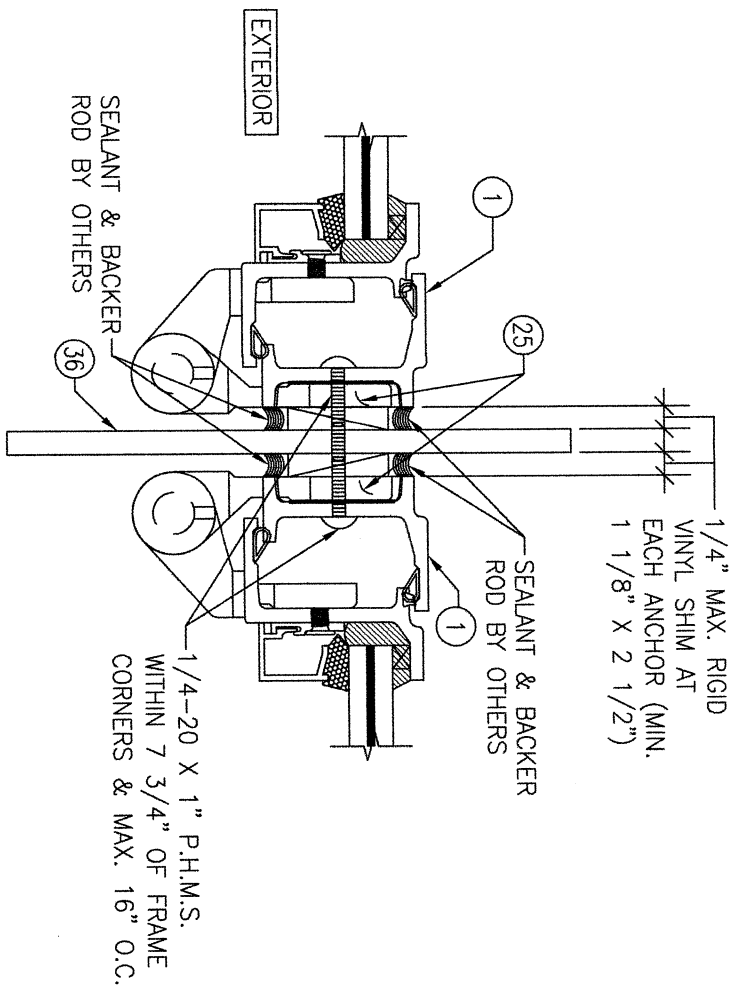
CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

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

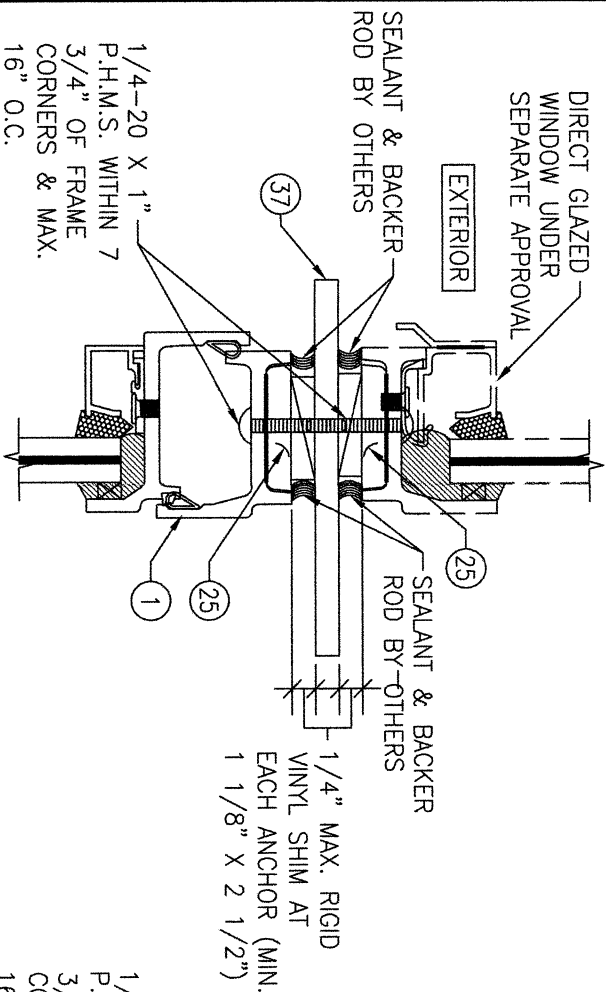
DRAWING NO.
1881A
REV.
C
SHEET NO.
11 OF **14**



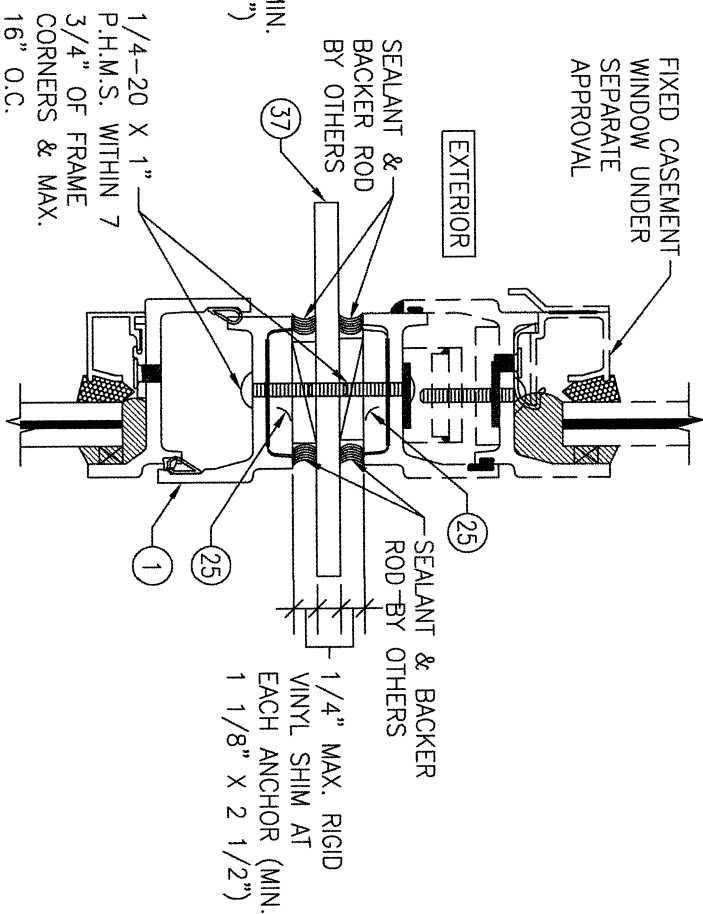
SECTION K1
SCALE: 1/2 FULL
(DOOR TO SIDELIGHT)
(EXTERIOR GLAZED CONDITION SHOWN.
INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



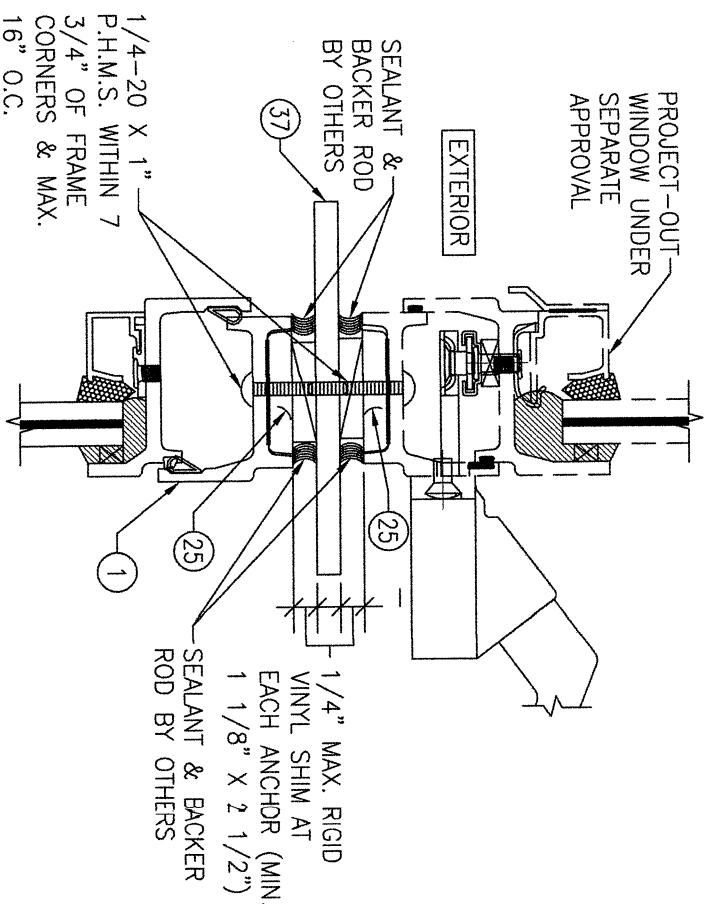
SECTION K2
SCALE: 1/2 FULL
(DOOR TO DOOR)
(EXTERIOR GLAZED CONDITION SHOWN.
INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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)



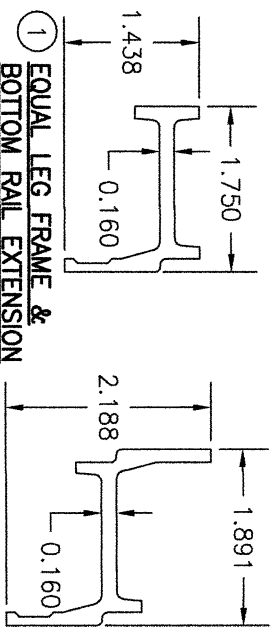
SECTION L3
SCALE: 1/2 FULL

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

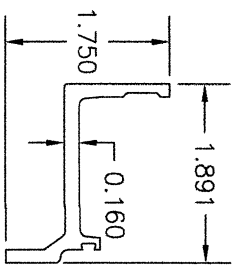
DRAWING TITLE LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD STILES AND RAILS	MANUFACTURER HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSAN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	

CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135
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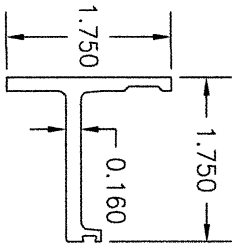
DRAWING NO. 1881A	REV. C
SHEET NO. 12	OF 14



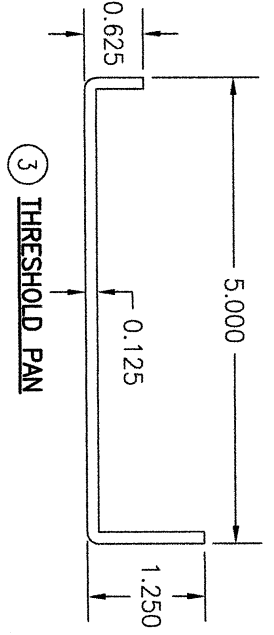
1 EQUAL LEG FRAME & BOTTOM RAIL EXTENSION



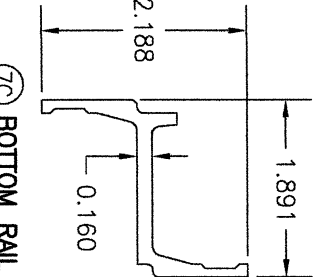
7A TOP RAIL, HINGE STILE & LOCK
STILE/BOTTOM RAIL EXTENSION
(USED WITH EXTERIOR GLAZING)



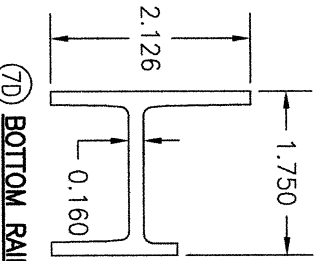
7B TOP RAIL, HINGE STILE & LOCK
STILE/BOTTOM RAIL EXTENSION
(USED WITH EXTERIOR GLAZING)



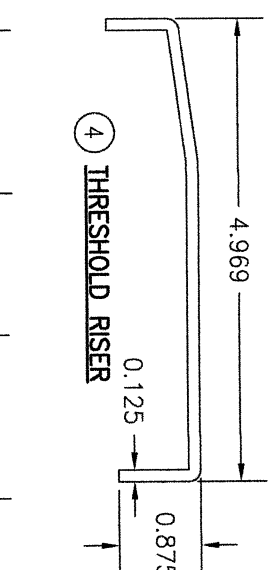
3 THRESHOLD PAN



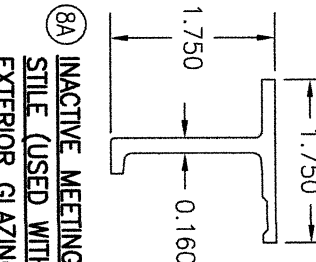
7C BOTTOM RAIL EXTENSION (USED WITH EXTERIOR GLAZING)



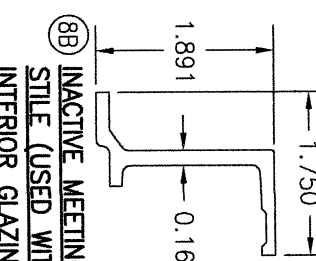
7D BOTTOM RAIL EXTENSION (USED WITH INTERIOR GLAZING)



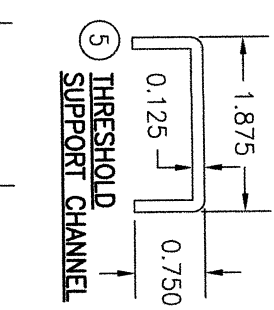
4 THRESHOLD RISER



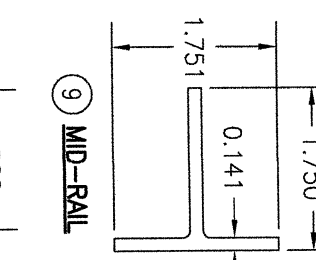
8A INACTIVE MEETING STILE (USED WITH EXTERIOR GLAZING)



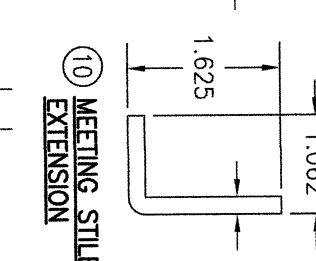
8B INACTIVE MEETING STILE (USED WITH INTERIOR GLAZING)



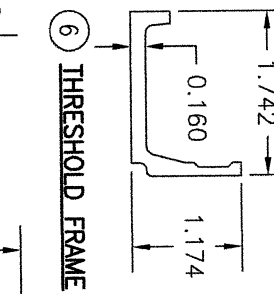
5 THRESHOLD SUPPORT CHANNEL



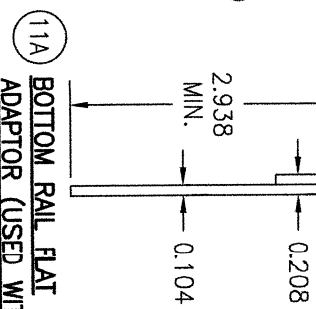
9 MID-RAIL



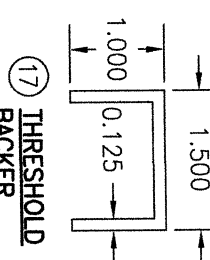
10 MEETING STILE EXTENSION



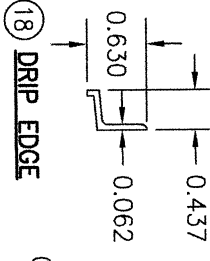
6 THRESHOLD FRAME



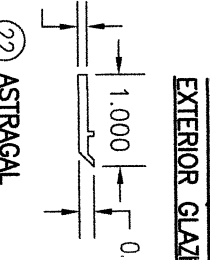
11A BOTTOM RAIL FLAT ADAPTOR (USED WITH EXTERIOR GLAZING)



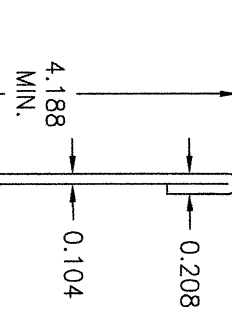
17 THRESHOLD BACKER



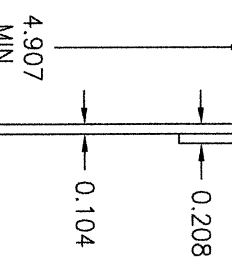
18 DRIP EDGE



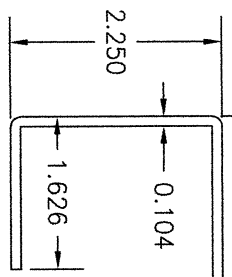
22 ASTRAGAL



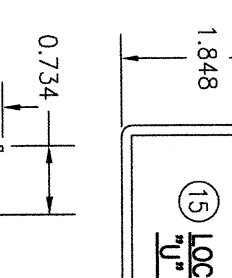
11B BOTTOM RAIL FLAT ADAPTOR (USED WITH EXTERIOR GLAZING)



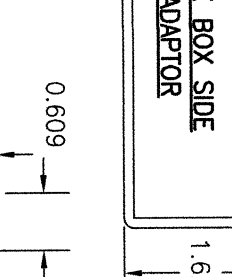
12 LOCK BOX SIDE FLAT ADAPTOR



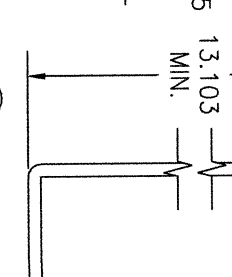
14 BOTTOM RAIL 'U' ADAPTOR



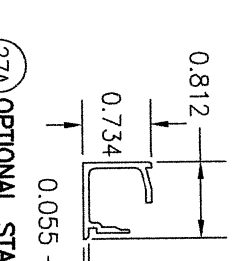
15 LOCK BOX SIDE 'U' ADAPTOR



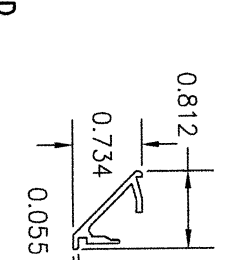
16 LOCK BOX 'U' ADAPTOR



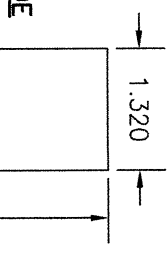
19 DRIP EDGE



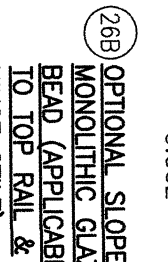
27A OPTIONAL STANDARD MONOLITHIC GLAZING BEAD (APPLICABLE TO BOTTOM RAIL, MID-RAIL & LOCK BOX)



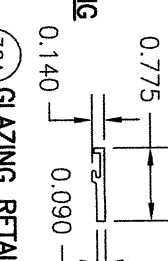
27B OPTIONAL SLOPED MONOLITHIC GLAZING BEAD (APPLICABLE TO BOTTOM RAIL, MID-RAIL & LOCK BOX)



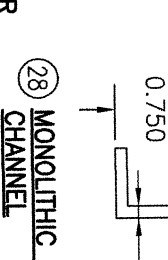
26A OPTIONAL STANDARD MONOLITHIC GLAZING BEAD (APPLICABLE TO TOP RAIL & HINGE STILE)



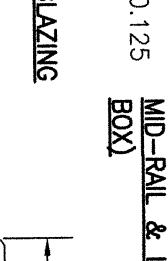
26B OPTIONAL SLOPED MONOLITHIC GLAZING BEAD (APPLICABLE TO TOP RAIL & HINGE STILE)



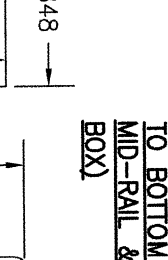
30A GLAZING RETAINER (USED WITH ITEM #26A & 29A)



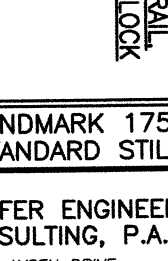
28 MONOLITHIC GLAZING CHANNEL (APPLICABLE TO MEETING STILE)



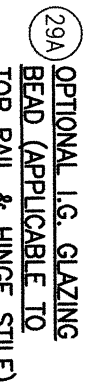
30B GLAZING RETAINER (USED WITH ITEM #26B)



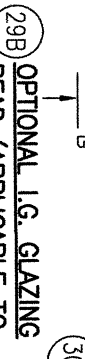
34 LOCK BOX 'U' ADAPTOR



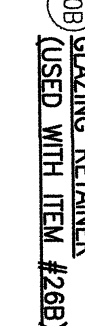
35 LOCK BOX FLAT ADAPTOR



29A OPTIONAL I.G. GLAZING BEAD (APPLICABLE TO TOP RAIL & HINGE STILE)



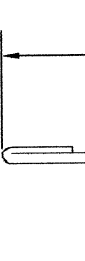
29B OPTIONAL I.G. GLAZING BEAD (APPLICABLE TO BOTTOM RAIL, MID-RAIL & LOCK BOX)



30C GLAZING RETAINER (USED WITH ITEM #27A, 27B & 29B)



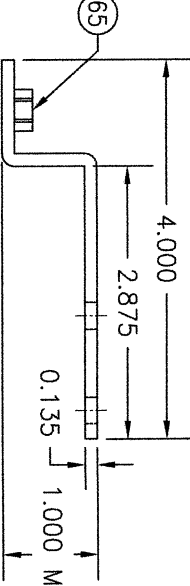
32 BOTTOM RAIL INTERNAL CHANNEL



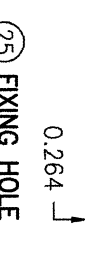
36 VERTICAL MULLION BAR



37 HORIZONTAL MULLION BAR



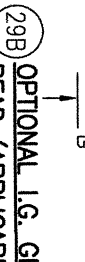
23 INSTALLATION CLIP



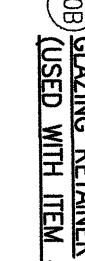
25 FIXING HOLE FILLER SHIM



25A OPTIONAL I.G. GLAZING BEAD (APPLICABLE TO TOP RAIL & HINGE STILE)



25B OPTIONAL I.G. GLAZING BEAD (APPLICABLE TO BOTTOM RAIL, MID-RAIL & LOCK BOX)



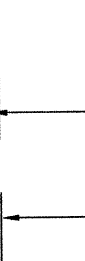
25C GLAZING RETAINER (USED WITH ITEM #26B)



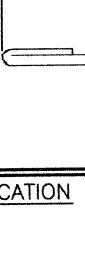
25D GLAZING RETAINER (USED WITH ITEM #27A, 27B & 29B)



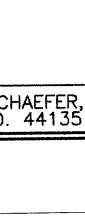
25E GLAZING RETAINER (USED WITH ITEM #26A & 29A)



25F GLAZING RETAINER (USED WITH ITEM #26B)



25G GLAZING RETAINER (USED WITH ITEM #27A, 27B & 29B)



25H GLAZING RETAINER (USED WITH ITEM #26A & 29A)

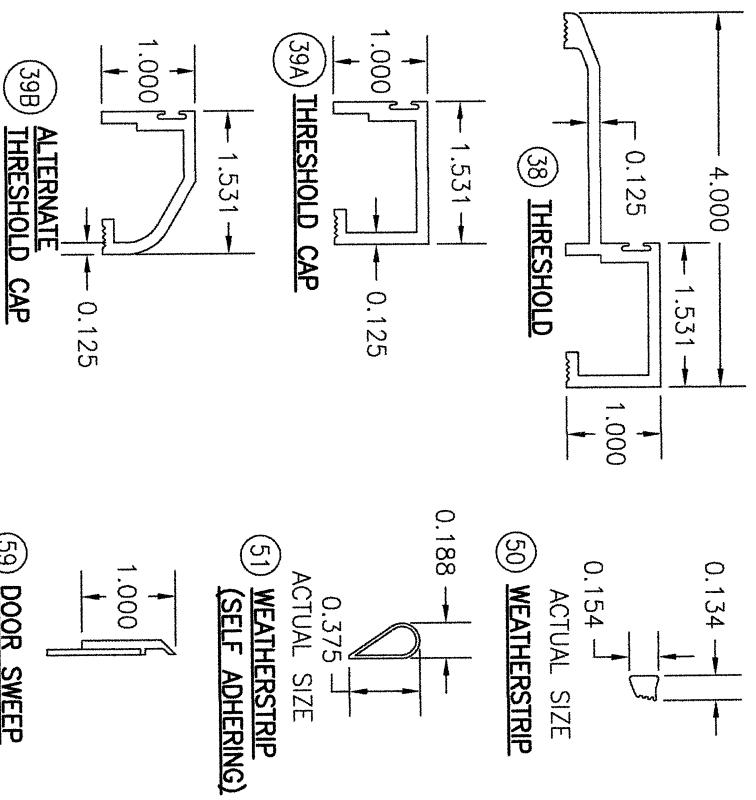
NO.	REVISION	DESCRIPTION	BY	DATE
1				
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DRAWING TITLE	LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD STILES AND RAILS
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424
MANUFACTURER	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.	1881A
REV.	C
SHEET NO.	13 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
21	STILE EXTENSION (AT FLUSH BOLT ONLY) 0.136 THICK X 0.500 WIDE	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 #26A & 29A)	6063-T5 ALUMINUM
30B	GLAZING RETAINER (USED WITH ITEM #26B)	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.



DRAWING BY: W.R.M.		CHECKED BY: W.M.S.		DATE: 12/04/13		PLOT: 1=2			
NO.	REVISION	DESCRIPTION	BY	DATE					

DRAWING TITLE LANDMARK 175 STEEL IMPACT OUT-SWING DOOR WITH STANDARD 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		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	

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