

GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- 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.
- THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- THIS PRODUCT IS NON-IMPACT RATED & MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
- 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.
- 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.
- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
- TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/OA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATIVE 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.
- 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.
- ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/HINGE/STRIKE/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	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	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"
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"

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 (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.).

ALLOWABLE PRESSURE TABLE

(SINGLE "O" & "X" DOORS)

MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM FRAME WIDTH DIMENSION (IN.)	(1)ALLOWABLE PRESSURE (PSF)	
		* POS.	NEG.
79.375	26.125	70.0	90.8
	30.750	70.0	89.7
	32.125	70.0	86.8
	34.125	70.0	81.6
	36.750	70.0	75.7
82.625	38.125	70.0	72.9
	26.125	70.0	87.2
	30.750	70.0	86.1
	32.125	70.0	83.4
	34.125	70.0	78.4
86.625	36.750	70.0	72.7
	38.125	70.0	70.0
	26.125	65.0	85.9
	30.750	65.0	84.9
	32.125	65.0	82.2
95.500	34.125	65.0	77.3
	36.750	65.0	71.6
	38.125	65.0	69.0
	26.125	65.0	82.6
	30.750	65.0	81.5
98.625	32.125	65.0	79.0
	34.125	65.0	74.2
	36.750	65.0	68.8
	38.125	65.0	66.3
	26.125	65.0	80.9
	30.750	65.0	79.9
	32.125	65.0	77.4
	34.125	65.0	72.8
	36.750	65.0	67.5
	38.125	65.0	65.0

ALLOWABLE PRESSURE TABLE

(DOUBLE "XX" DOORS)

MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM FRAME WIDTH DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	
		* POS.	NEG.
79.375	60.125	70.0	90.8
	60.875	70.0	89.7
	62.875	70.0	86.8
	66.875	70.0	81.6
	72.125	70.0	75.7
82.625	74.875	70.0	72.9
	60.125	70.0	87.2
	60.875	70.0	86.1
	62.875	70.0	83.4
	66.875	70.0	78.4
86.625	72.125	70.0	72.7
	74.875	70.0	70.0
	60.125	65.0	85.9
	60.875	65.0	84.9
	62.875	65.0	82.2
95.500	66.875	65.0	77.3
	72.125	65.0	71.6
	74.875	65.0	69.0
	60.125	65.0	82.6
	60.875	65.0	81.5
98.625	62.875	65.0	79.0
	66.875	65.0	74.2
	72.125	65.0	68.8
	74.875	65.0	66.3
	60.125	65.0	80.9
	60.875	65.0	79.9
	62.875	65.0	77.4
	66.875	65.0	72.8
	72.125	65.0	67.5
	74.875	65.0	65.0

* POSITIVE PRESSURE MAY BE INCREASED TO EQUAL THE LISTED NEGATIVE PRESSURE WHEN WATER INFILTRATION RESISTANCE IS NOT REQUIRED BY THE DOOR PROVIDING THE DOOR IS INSTALLED IN A NON-HABITABLE AREA WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION OR THE UNIT IS INSTALLED AT A LOCATION PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

HINGE REQUIREMENTS

(ALL DOOR CONDITIONS)

4 PER PANEL
(ALL DOOR SIZES)

ALLOWABLE PRESSURE TABLE

(TRANSOM UNITS)

SINGLE DOOR WITH TRANSOM MAXIMUM MULLION SPAN (IN.)	(1)ALLOWABLE PRESSURE (PSF)	
	* POS.	NEG.
26.125	65.0	94.9
30.750	65.0	80.6
32.125	65.0	77.1
34.125	65.0	72.6
36.750	65.0	67.4
38.125	65.0	65.0

DOUBLE DOOR WITH TRANSOM

MAXIMUM MULLION SPAN (IN.)	(1) ALLOWABLE PRESSURE (PSF)	
	* POS.	NEG.
60.125	65.0	80.9
60.875	65.0	79.9
62.875	65.0	77.4
66.875	65.0	72.8
72.125	65.0	67.5
74.875	65.0	65.0

1. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT SPECIFIED FOR THE INDIVIDUAL DOOR & WINDOW UNITS.

ALLOWABLE PRESSURE TABLE

(SIDE-BY-SIDE MULLED UNITS)

1. ALLOWABLE MULLED UNIT PRESSURE SHALL BE THE LESSER OF THE ALLOWABLE PRESSURE SPECIFIED FOR EACH INDIVIDUAL UNIT WITHIN THE MULLED UNIT. SEE OTHER TABLES ON THIS SHEET FOR ALLOWABLE PRESSURE ON INDIVIDUAL DOOR UNITS.



Digitally signed
by Warren W
Schaefer

Date:
2026.06.10
14:20:50 -04'00'

ULTRA SERIES MANOR NON-IMPACT DOOR

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983

MANUFACTURER
KOLBE & KOLBE MILLWORK CO., INC.
1323 SOUTH 11TH AVE.
WAUSAU, WI 54401
715-842-5666

CERTIFICATION

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

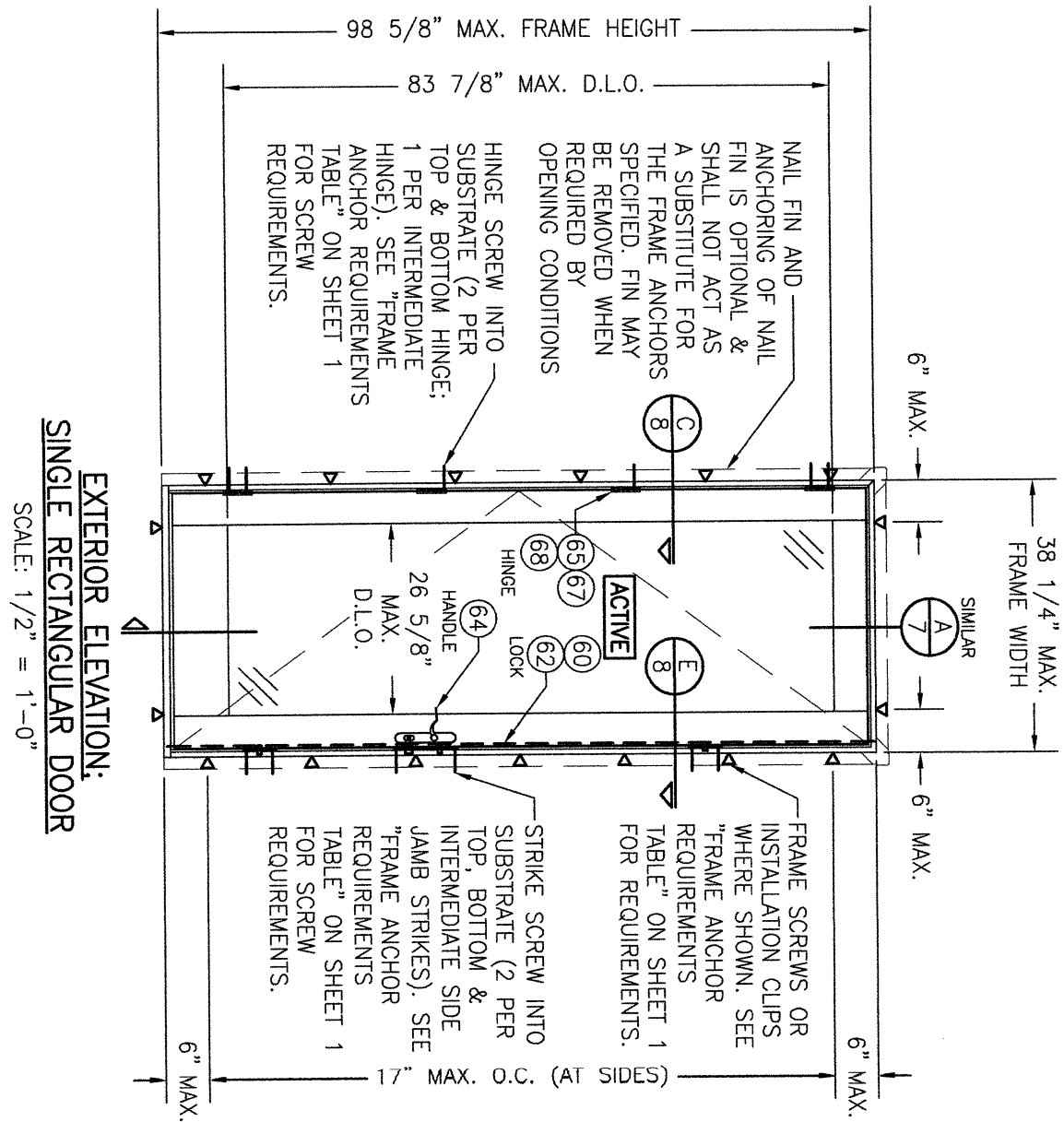
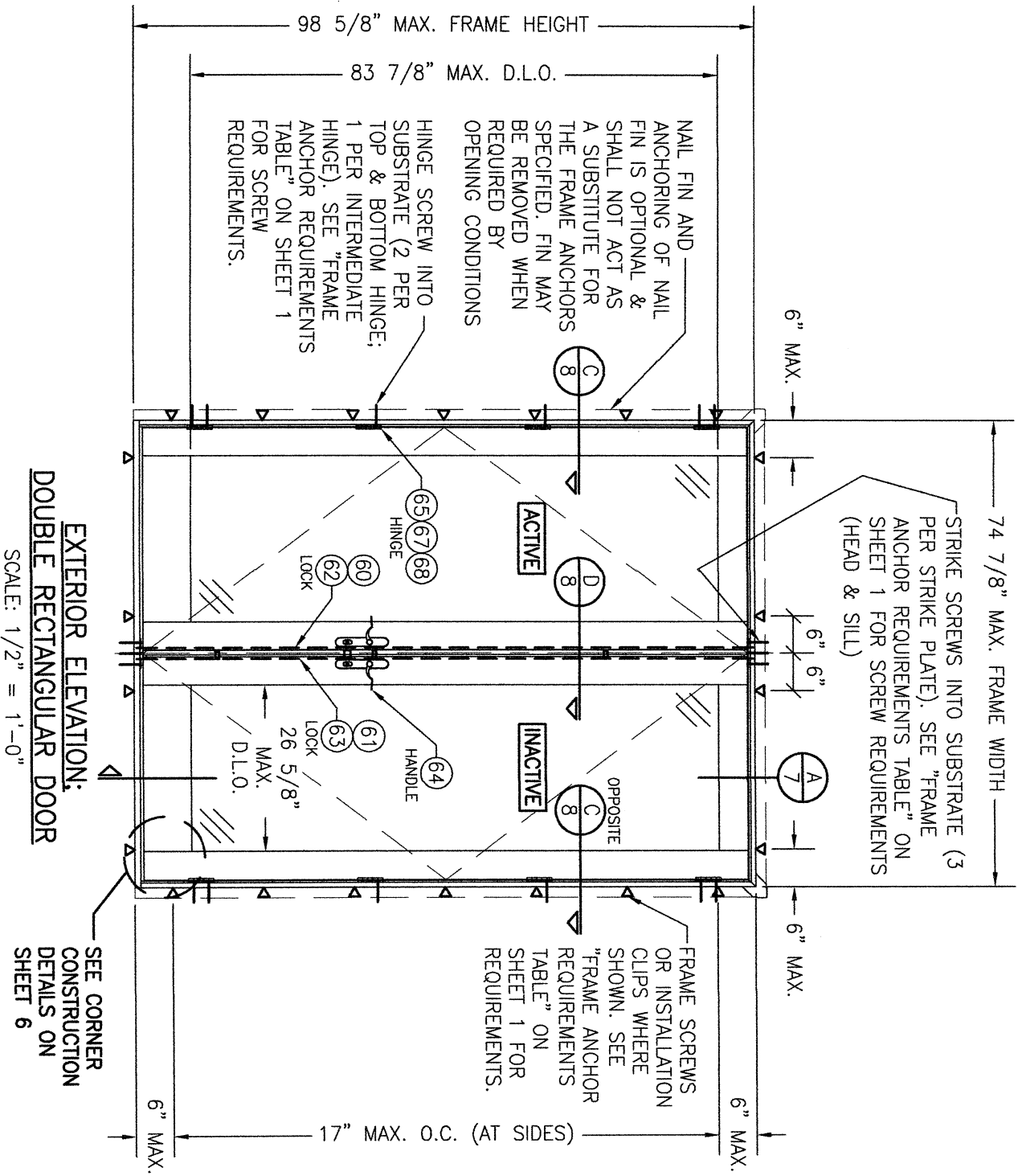
DRAWING NO. 1831

REV. D

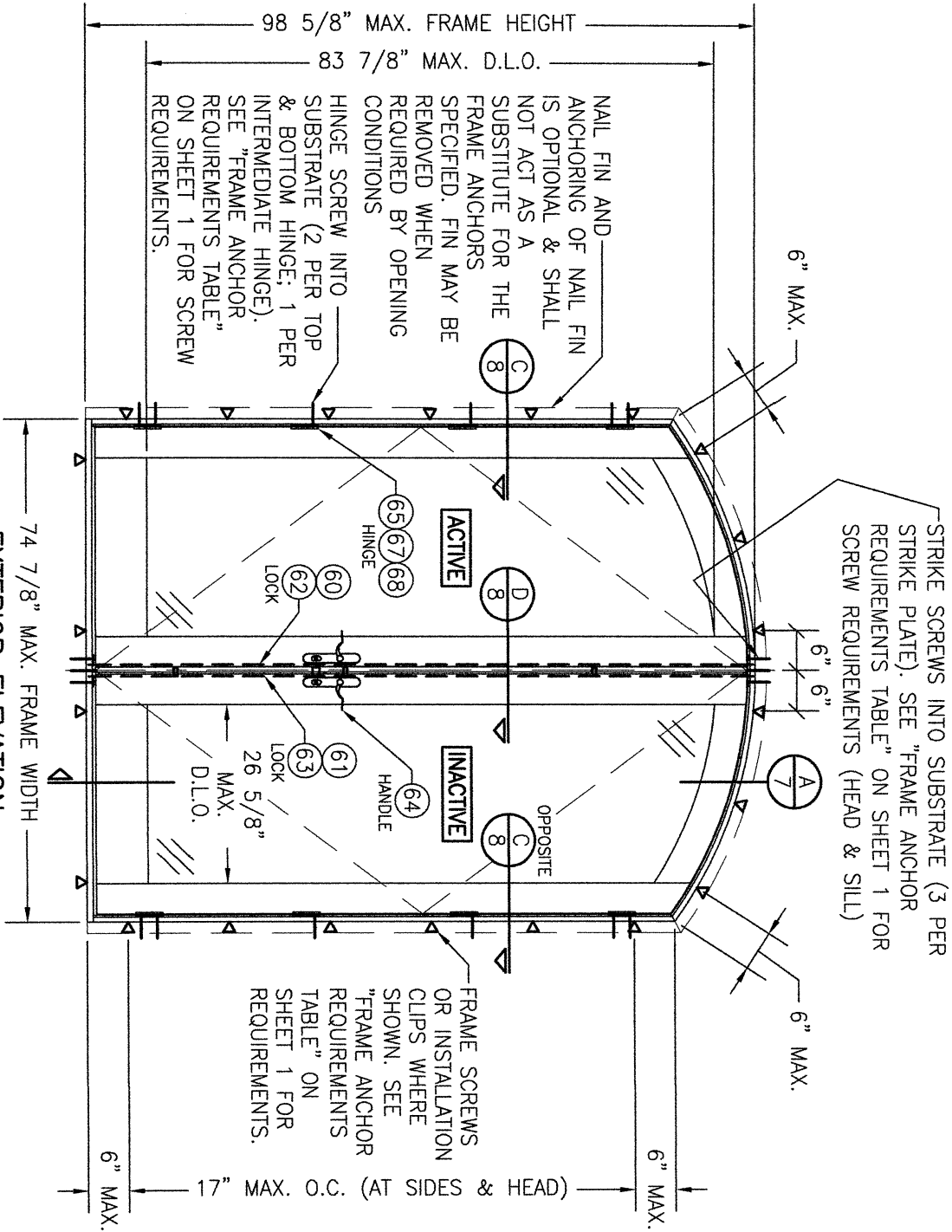
SHEET NO. 1 OF 12

DRAWN BY: W.S.M. CHECKED BY: W.S.S.
DATE: 06/13/26

NO.	REVISION	DESCRIPTION	BY	DATE
A1	UPDATE TO CURRENT STANDARDS		W.W.S.	01/06/15
B1	ADD ALTERNATE PANEL ATTACHMENT		W.W.S.	03/31/21
C1	ADDED HLS-8000 LOCK SYSTEM		W.W.S.	03/01/24
D1	UPDATED BOARDER INFORMATION		W.W.S.	06/10/26

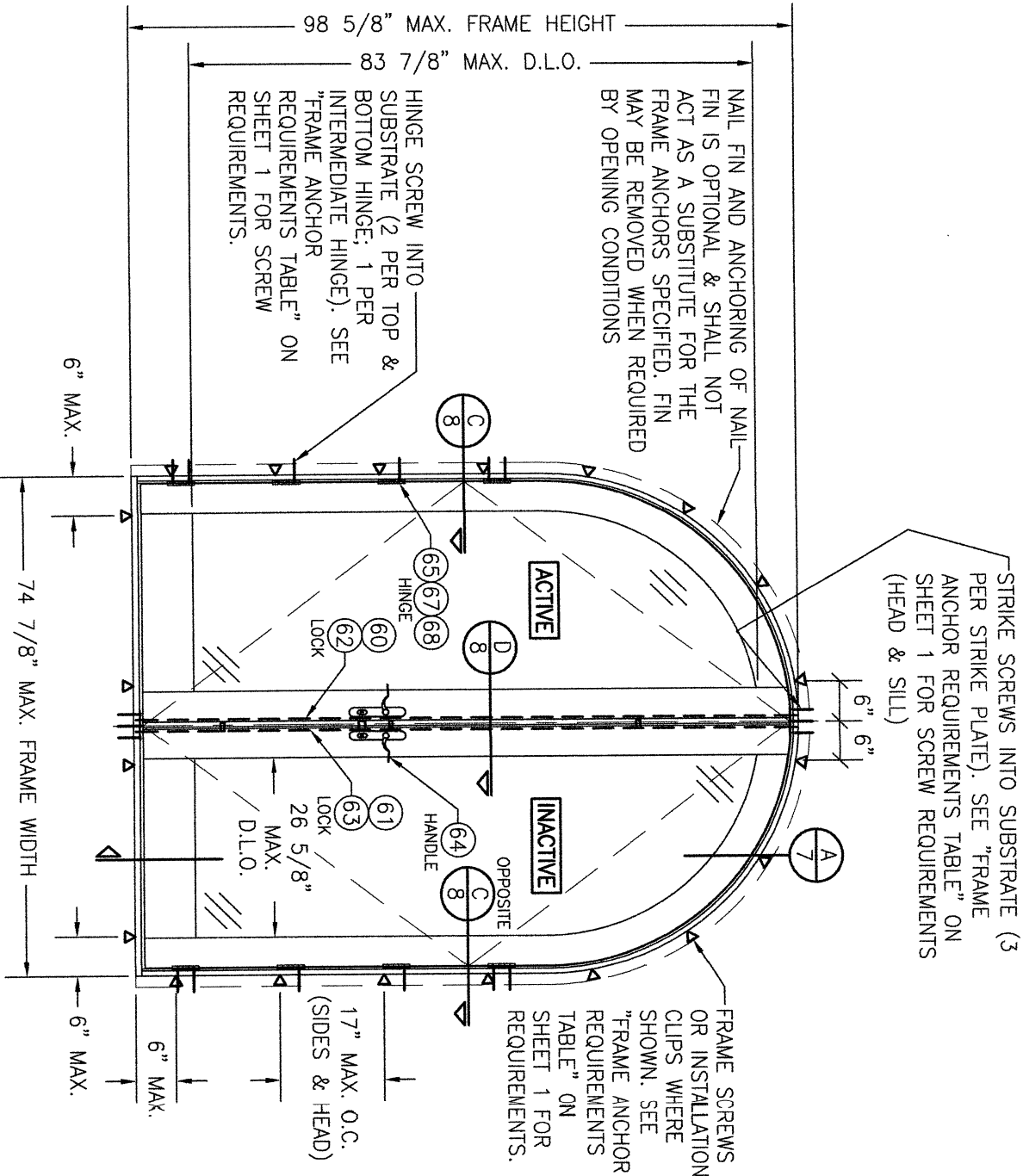
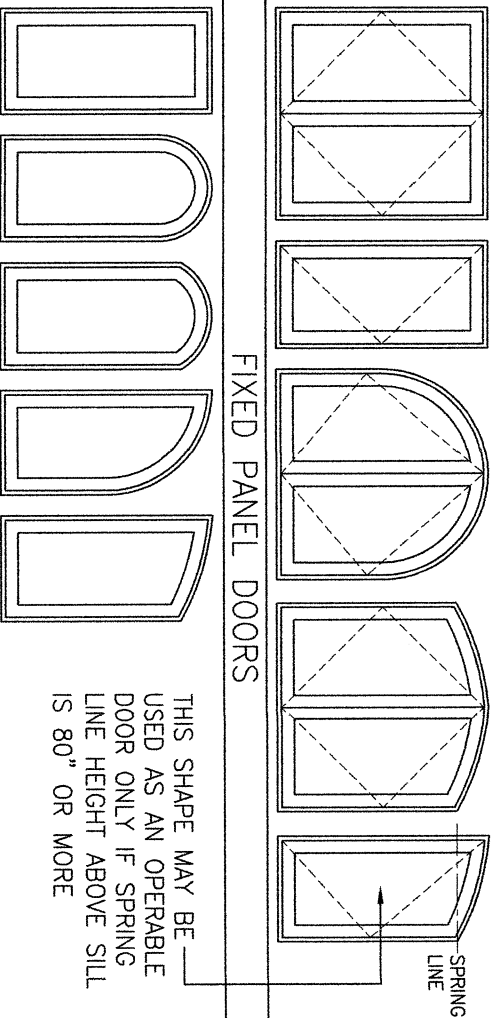


DRAWING NO. 1831 SHEET NO. 2 OF 12	CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING TITLE ULTRA SERIES MANOR NON-IMPACT DOOR		MANUFACTURER KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666		DRAWN BY: W.R.M.	CHECKED BY: W.M.S.
		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSAN DRIVE PUNTA GORDA, FL 33983		NO. REVISION DESCRIPTION BY DATE		PLOT: 1=24	DATE: 06/13/13



EXTERIOR ELEVATION:
DOUBLE EYEBROW TOP DOOR
SCALE: 1/2" = 1'-0"

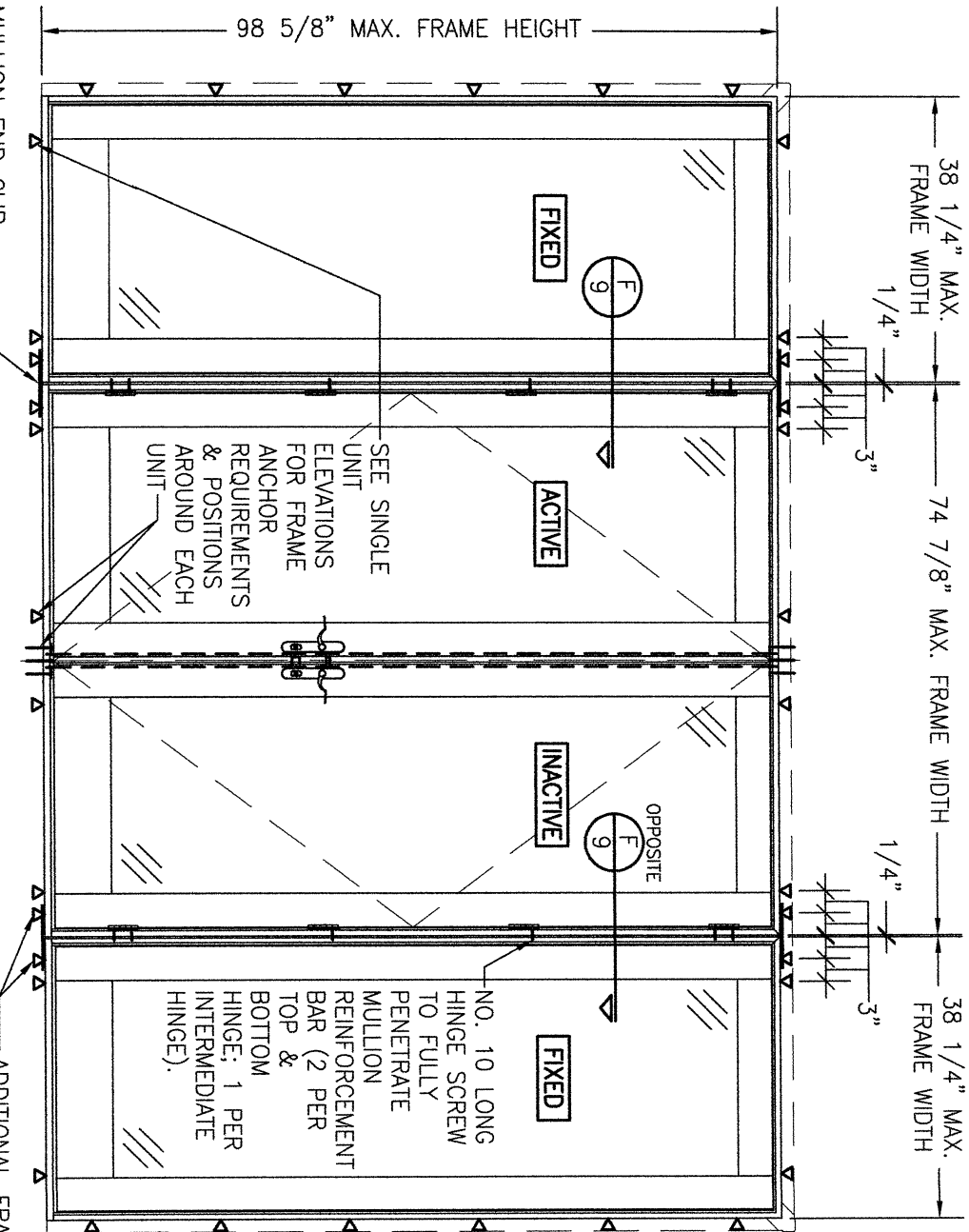
APPROVED SHAPES
OPERABLE DOORS



EXTERIOR ELEVATION:
DOUBLE HALF ROUND TOP DOOR
SCALE: 1/2" = 1'-0"

NOTES:
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN, & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.

DRAWING NO. 1831 SHEET NO. 3 OF 12		CERTIFICATION		DRAWING TITLE ULTRA SERIES MANOR NON-IMPACT DOOR		NO.		REVISION	DESCRIPTION	BY	DATE	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
		WARREN W. SCHAEFER, P.E. P.E. NO. 44135		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983	MANUFACTURER KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666								
						PLT. 1=24							
						DATE: 06/13/13							



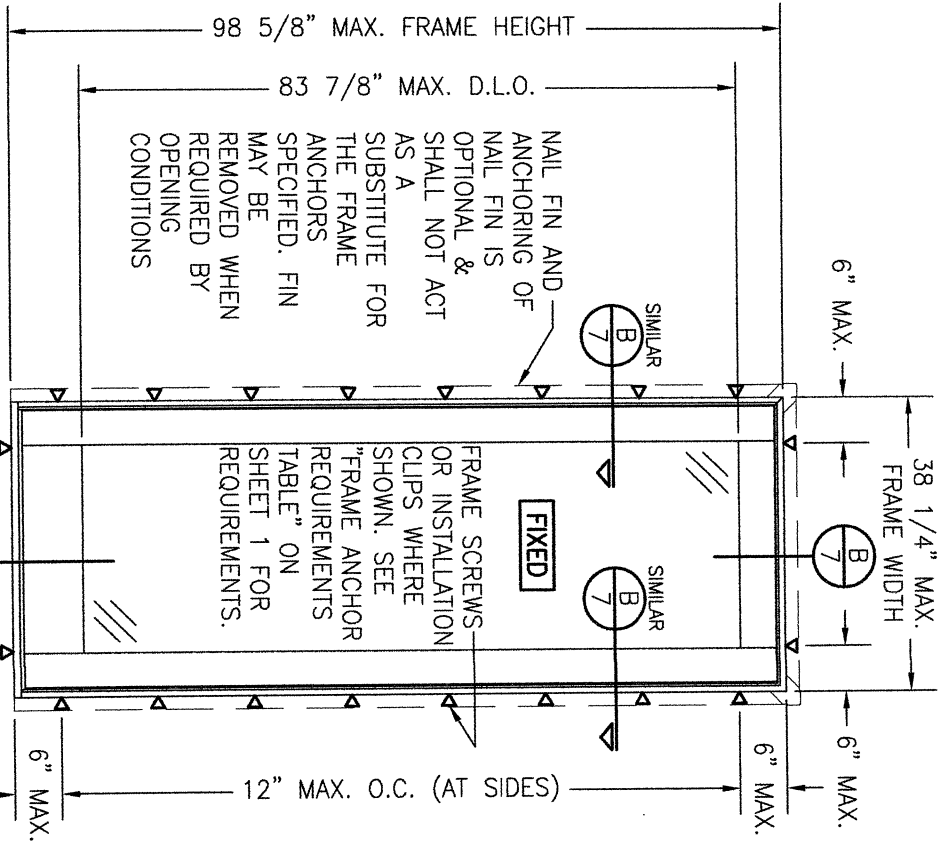
EXTERIOR ELEVATION:

DOUBLE DOORS WITH FIXED PANELS

SCALE: 1/2" = 1'-0"
(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON SHEET 2)
"FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

MULTIPLE UNIT NOTES:

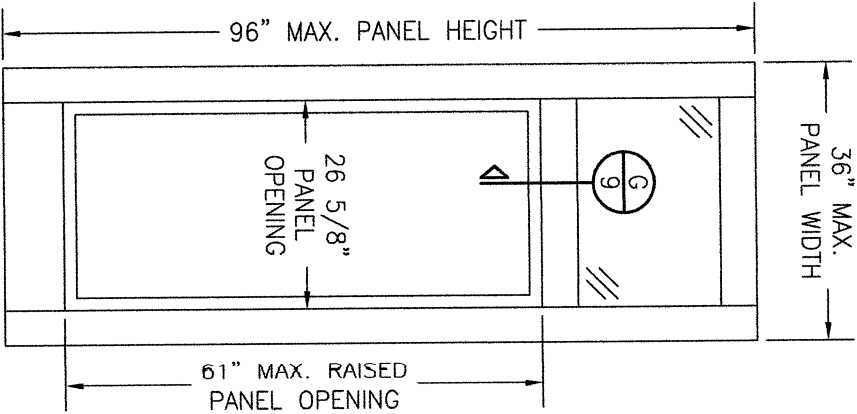
- FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
- THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
- OXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.



EXTERIOR ELEVATION:

SINGLE FIXED PANEL DOOR

SCALE: 1/2" = 1'-0"
RECTANGULAR FIXED PANEL SHOWN, SHAPED FIXED PANEL UNITS ALSO APPLY PROVIDING THE HEADS OF THOSE UNITS ARE INSTALLED WITH THE SAME ANCHOR SPACING AS SPECIFIED FOR THE SIDES (12" MAX. O.C.)



EXTERIOR ELEVATION:

RAISED PANEL

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

RAISED PANEL NOTES:

- SINGLE RAISED PANEL CONDITION SHOWN, MORE THAN ONE RAISED PANEL MAY EXIST IN A SINGLE DOOR PANEL WHEN MULTIPLE MID-RAILS ARE USED.
- PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.
- THESE PANEL CONDITIONS APPLY WITH BOTH OPERABLE & FIXED PANEL DOORS
- RECTANGULAR CONDITION SHOWN, SHAPED CONDITIONS ALSO APPLY.
- VERTICAL MID-RAILS MAY BE USED BETWEEN HORIZONTAL MID-RAILS AT RAISED PANEL PROVIDING RAIL SPAN DOES NOT EXCEED 26 5/8".

DRAWN BY:	CHECKED BY:	DATE:	BY:	REVISION	DESCRIPTION	NO.
W.R.M.	W.M.S.	06/13/13				
1-24						

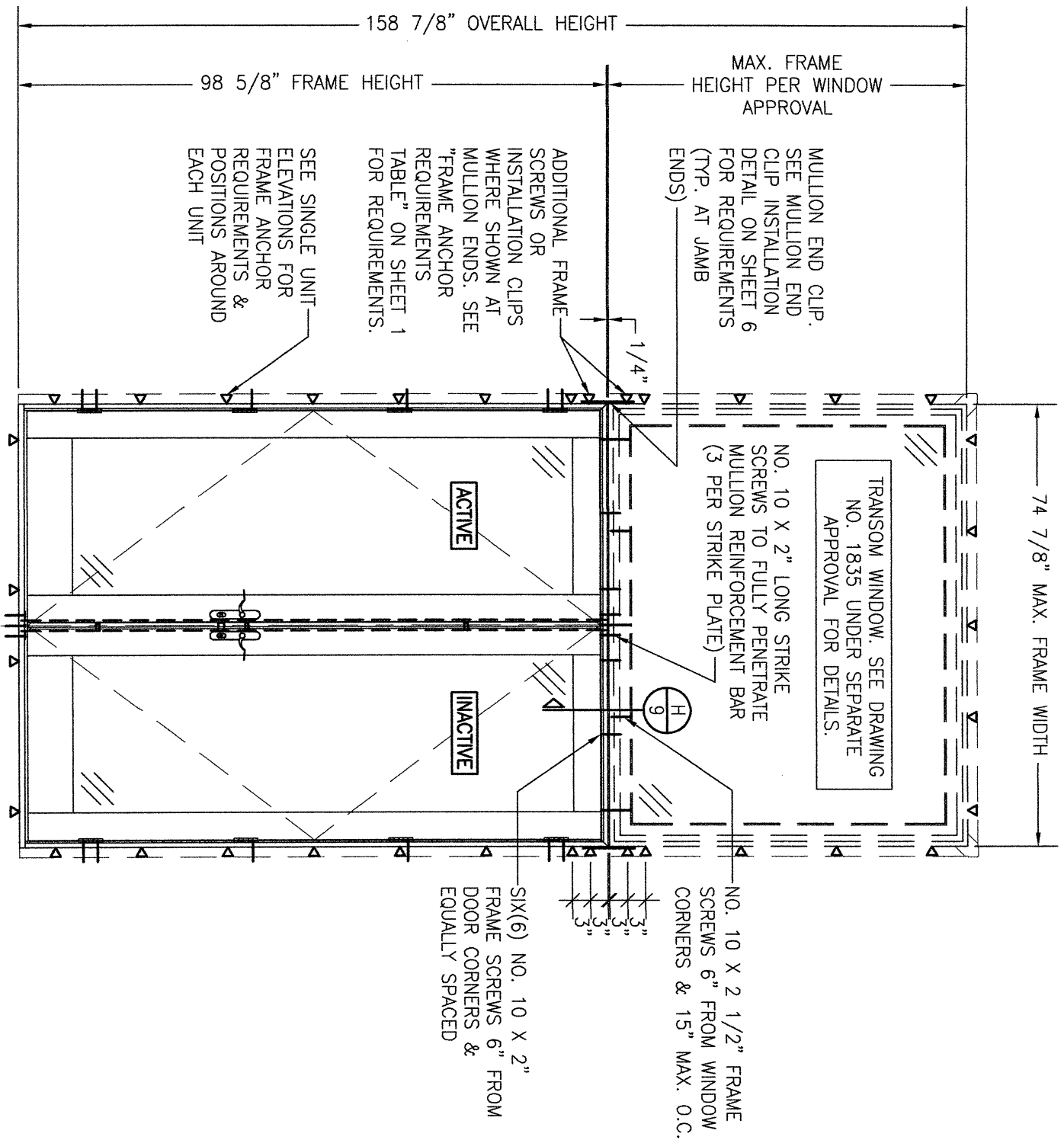
MANUFACTURER
KOLBE & KOLBE MILLWORK CO., INC.
1323 SOUTH 11TH AVE.
WAUSAU, WI 54401
715-842-5666

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983

CERTIFICATION

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

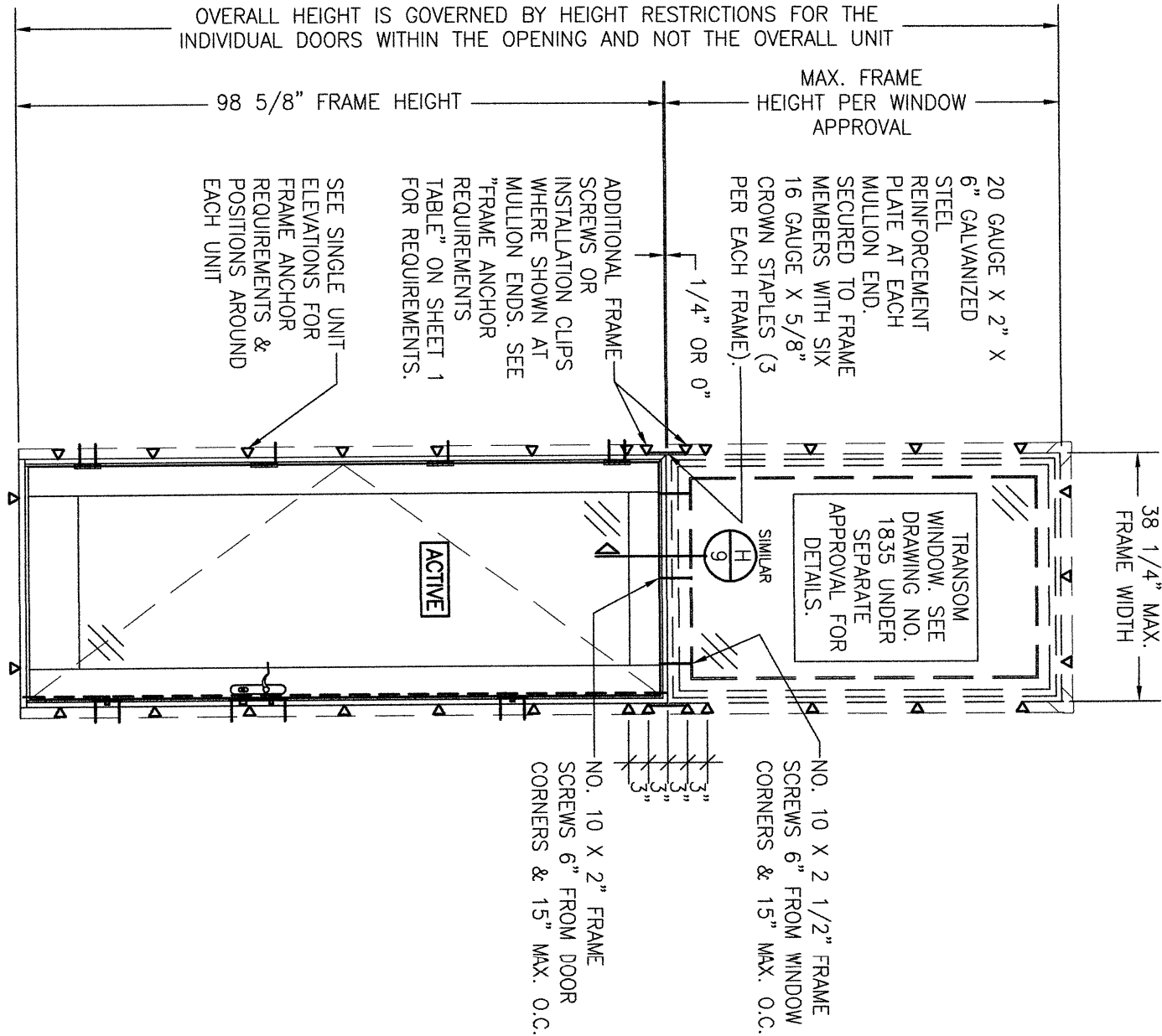
DRAWING NO. 1831
SHEET NO. 4 OF 12



EXTERIOR ELEVATION:
DOUBLE DOOR WITH TRANSOM

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

(FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATION)



EXTERIOR ELEVATION:
SINGLE DOOR WITH TRANSOM

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

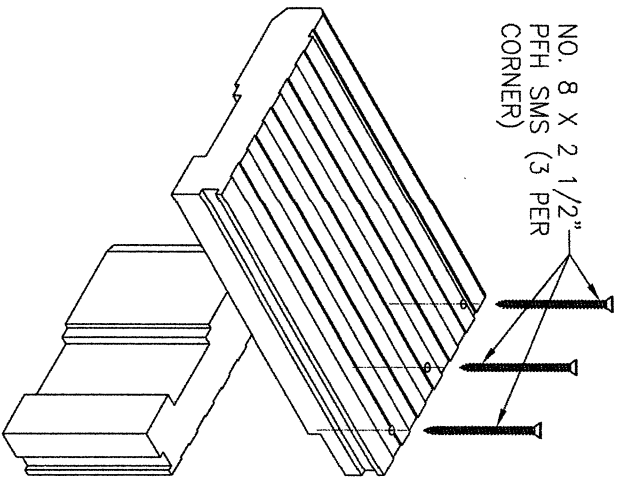
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATION)
(OPERABLE DOOR SHOWN. FIXED PANEL DOOR ALSO APPLIES)

NO.	REVISION	DESCRIPTION	BY	DATE	DRAWN BY:	CHECKED BY:
					W.K.M.	W.M.S.

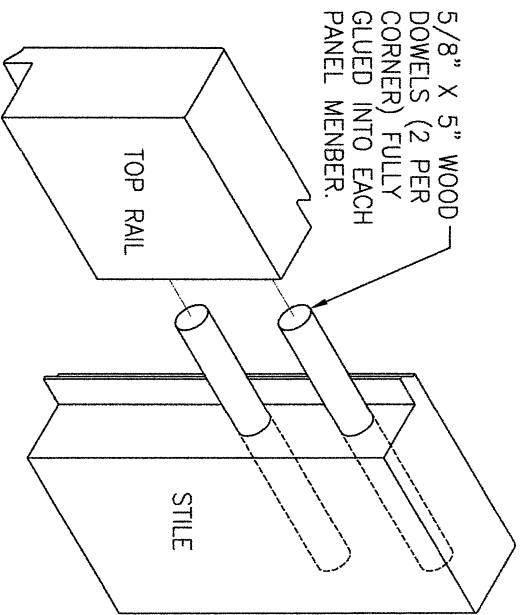
MANUFACTURER
KOLBE & KOLBE MILLWORK CO., INC.
1323 SOUTH 11TH AVE.
WAUSAU, WI 54401
715-842-5666

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
25601 AYSAN DRIVE
PUNTA GORDA, FL 33983

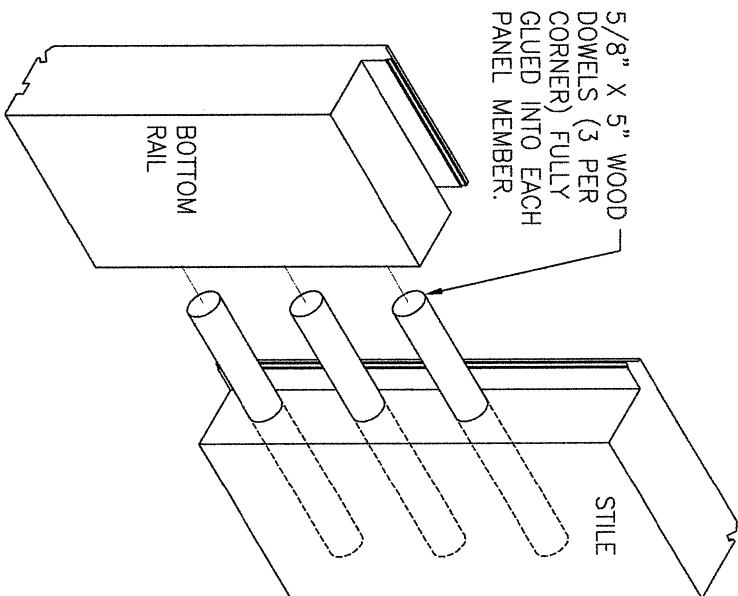
CERTIFICATION
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135



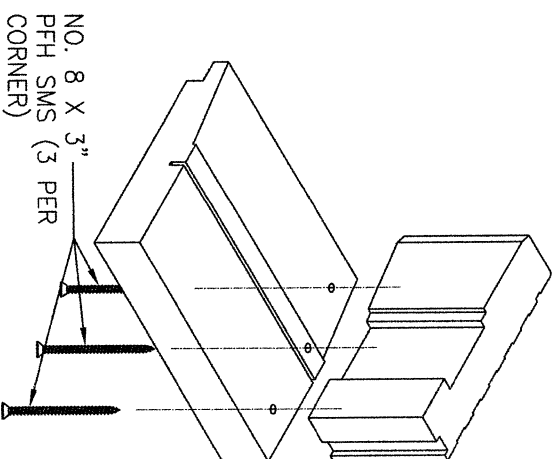
FRAME CORNER DETAIL
NOTE: FRAME MEETING SURFACES ARE SEALED WITH SILICONE.



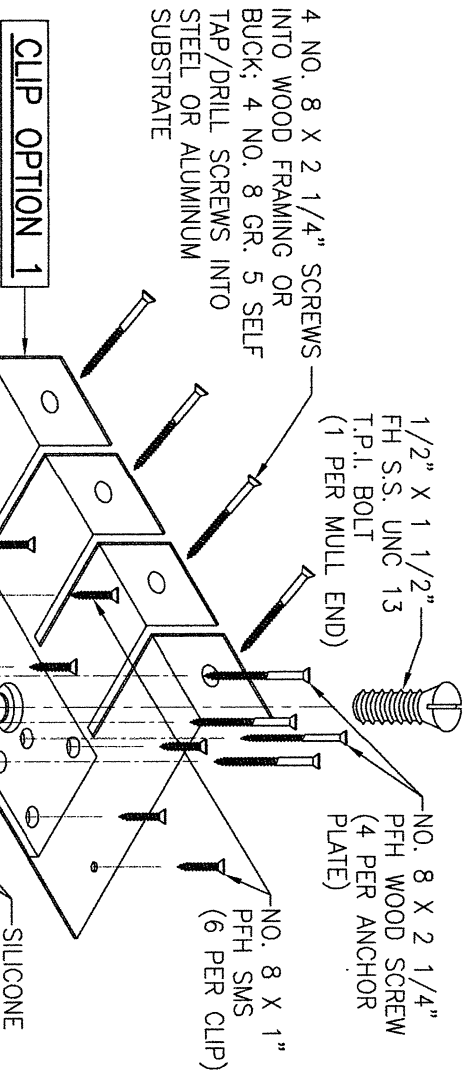
PANEL TOP CORNER DETAIL
NOTE: STILE & RAIL MEETING SURFACES ARE SEALED WITH SILICONE. CLAD JOINT IS ALSO SEALED WITH SILICONE.



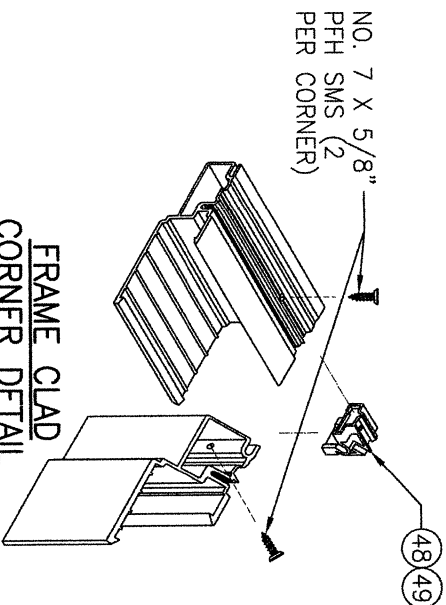
PANEL BOTTOM CORNER DETAIL
NOTE: STILE & RAIL MEETING SURFACES ARE SEALED WITH SILICONE. CLAD JOINT IS ALSO SEALED WITH SILICONE.



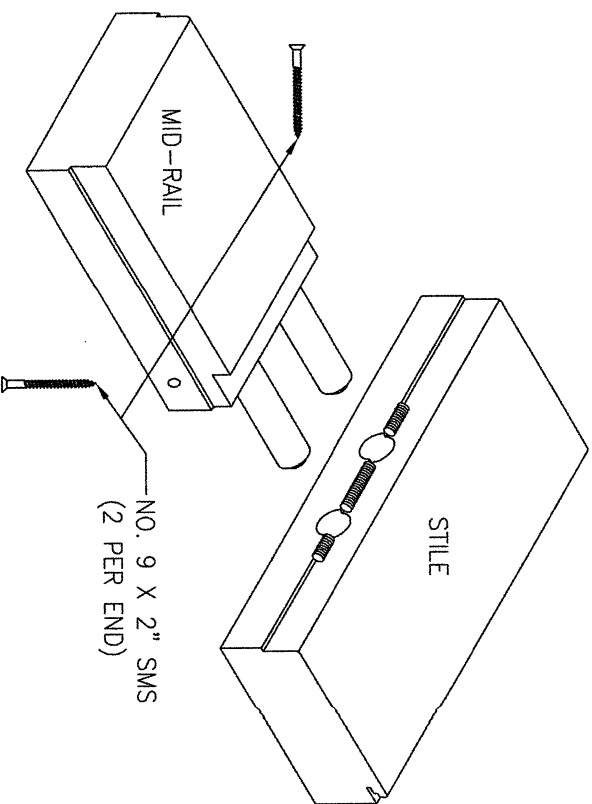
SILL CORNER DETAIL
NOTE: FRAME MEETING SURFACES ARE SEALED WITH SILICONE.



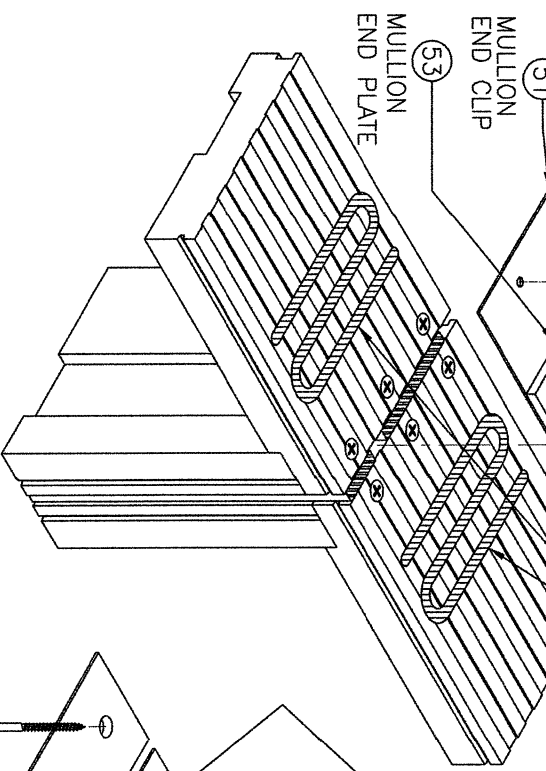
CLIP OPTION 1



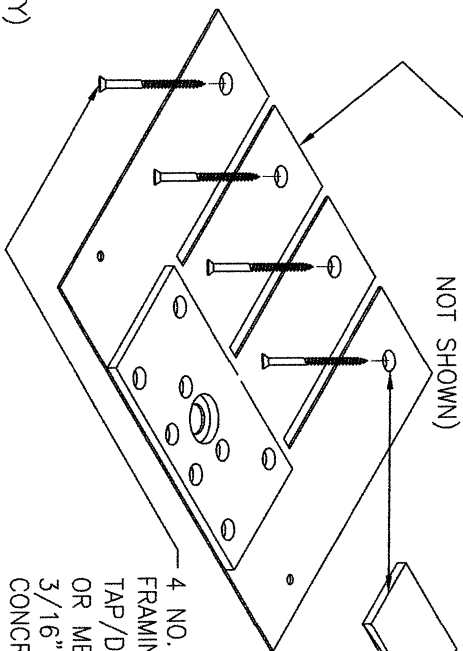
FRAME CLAD CORNER DETAIL
NOTE: CORNER OF CLAD IS SEALED WITH SILICONE



MID-RAIL END DETAIL
NOTE: STILE & RAIL MEETING SURFACES ARE SEALED WITH SILICONE. CLAD JOINT IS ALSO SEALED WITH SILICONE.



REINFORCED MULLION END CLIP INSTALLATION DETAIL



CLIP OPTION 2

NOTE: SHIM AS REQUIRED WITH PLASTIC OR COMPOSITE SHIMS TO FILL ANY VOID THAT MAY OCCUR BETWEEN THE CLIP AND THE SUPPORTING SUBSTRATE.

4 NO. 8 X 2 1/4" SCREWS INTO WOOD FRAMING OR BUCK; 4 NO. 8 GR. 5 SELF TAP/DRILL SCREWS INTO STEEL, ALUMINUM OR METAL STUD SUBSTRATE; FOUR(4) 3/16" CONCRETE SCREWS INTO CMU OR CONCRETE

DRAWN BY:	DATE:	CHECKED BY:	DATE:	NO.	REVISION	DESCRIPTION	BY	DATE
W.A.M.	06/13/13	W.M.S.						

MANUFACTURER
KOLBE & KOLBE MILLWORK CO., INC.
1323 SOUTH 11TH AVE.
WAUSAU, WI 54401
715-842-5666

DRAWING TITLE
ULTRA SERIES MANOR NON-IMPACT DOOR

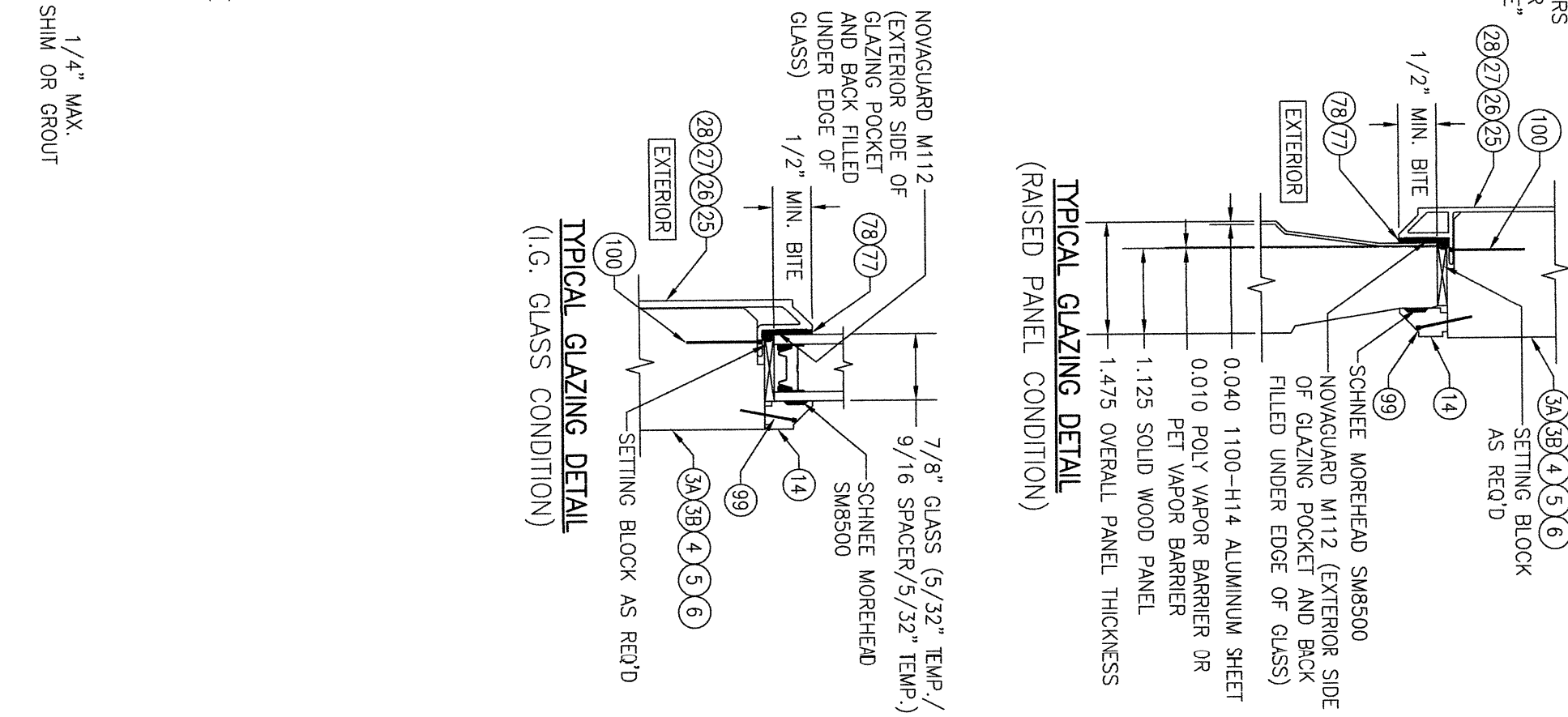
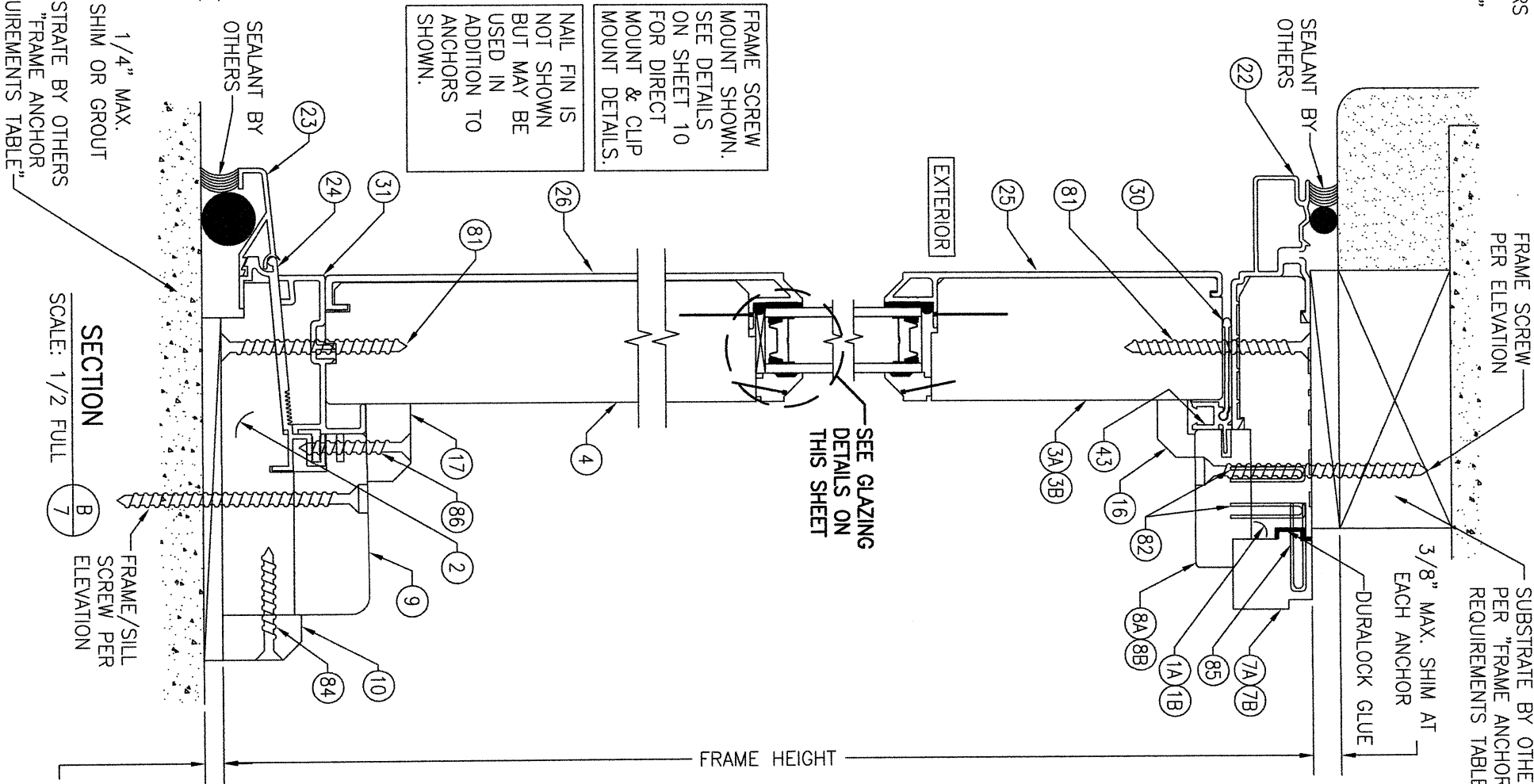
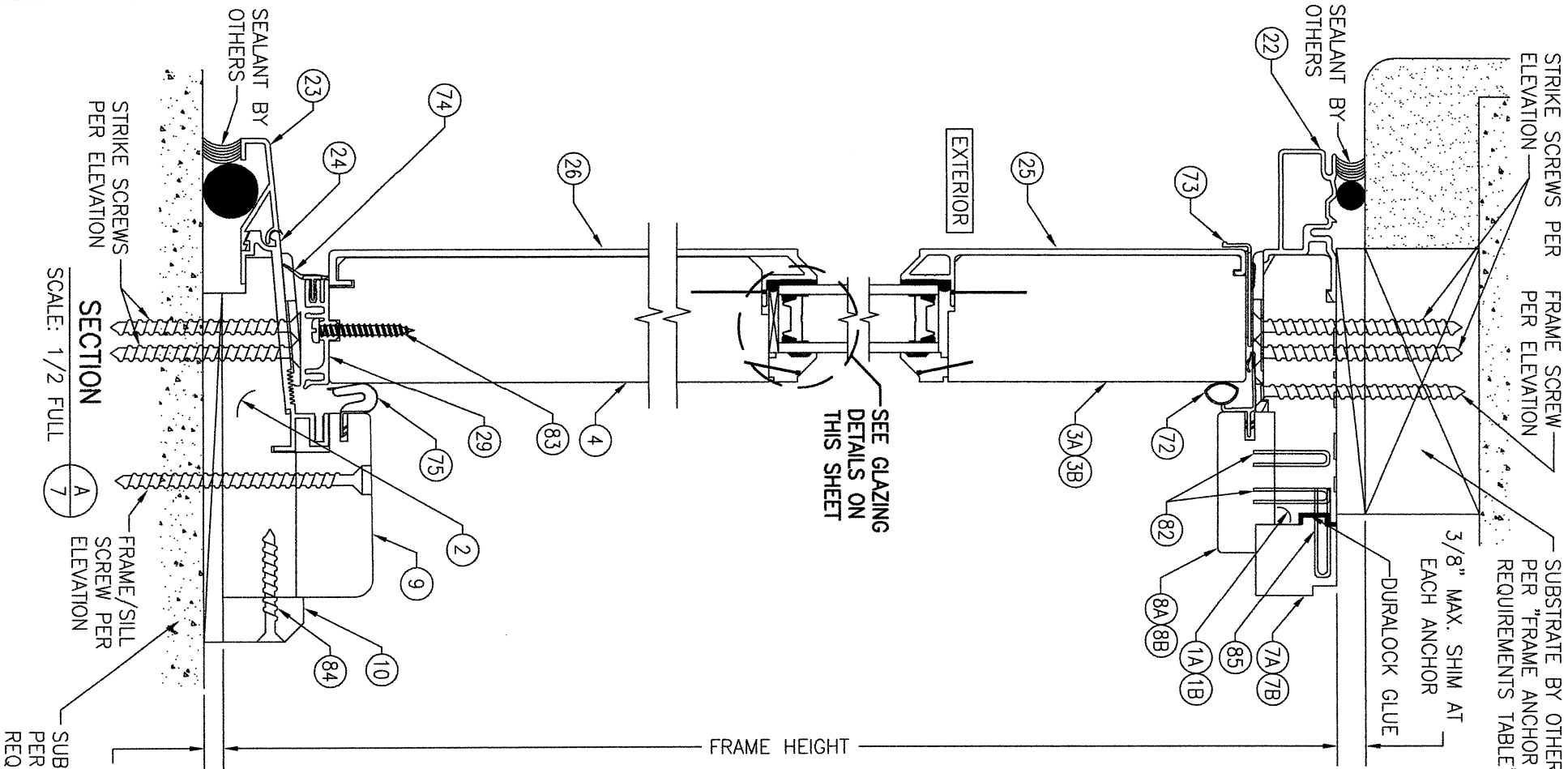
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983

CERTIFICATION

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

DRAWING NO.
1831
REV.
D

SHEET NO.
6 OF 12

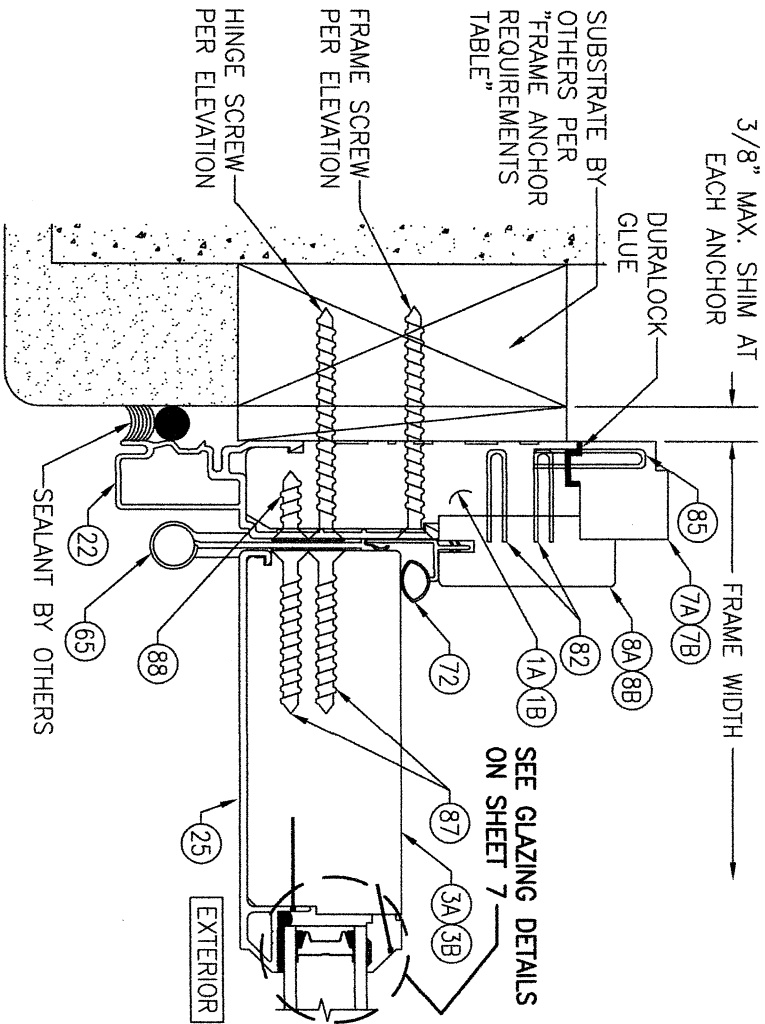


TYPICAL GLAZING DETAIL
(RAISED PANEL CONDITION)

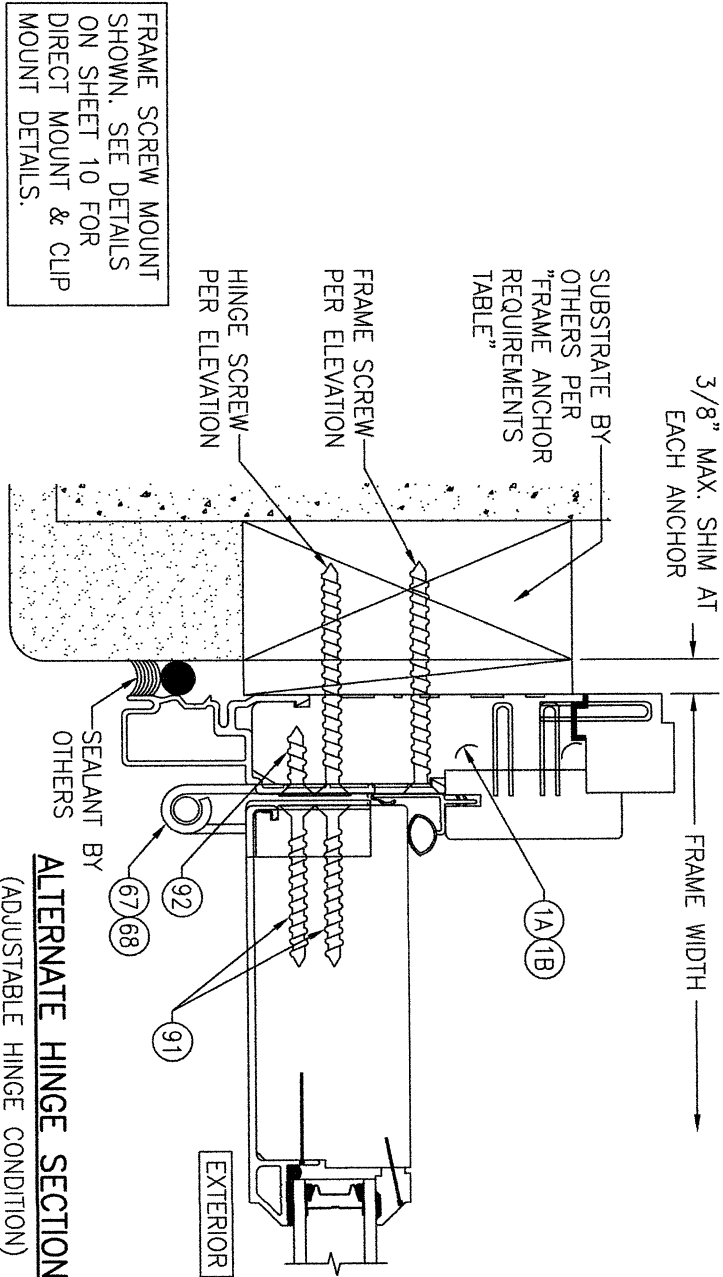
NO.	REVISION	DESCRIPTION	BY	DATE
1	1	W.M.S.		06/13/13
2	2	W.M.S.		
3	3	W.M.S.		
4	4	W.M.S.		
5	5	W.M.S.		
6	6	W.M.S.		
7	7	W.M.S.		
8	8	W.M.S.		
9	9	W.M.S.		
10	10	W.M.S.		

DRAWING TITLE	CONSULTANTS	MANUFACTURER
ULTRA SERIES MANOR NON-IMPACT DOOR	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983	KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666

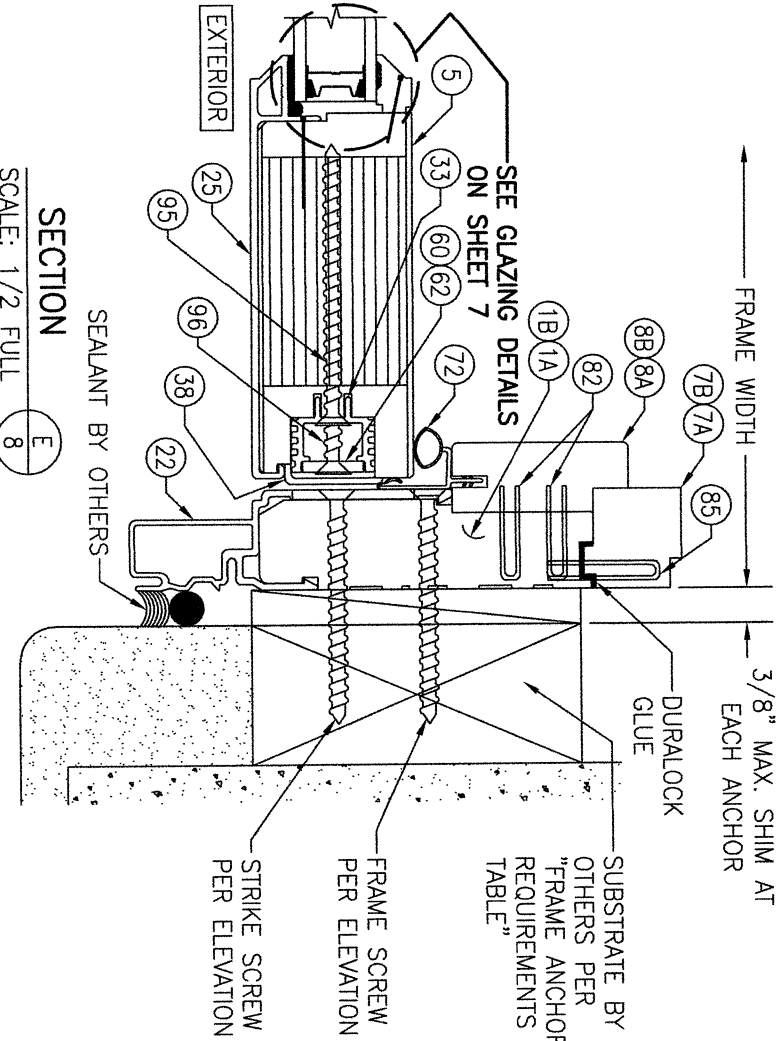
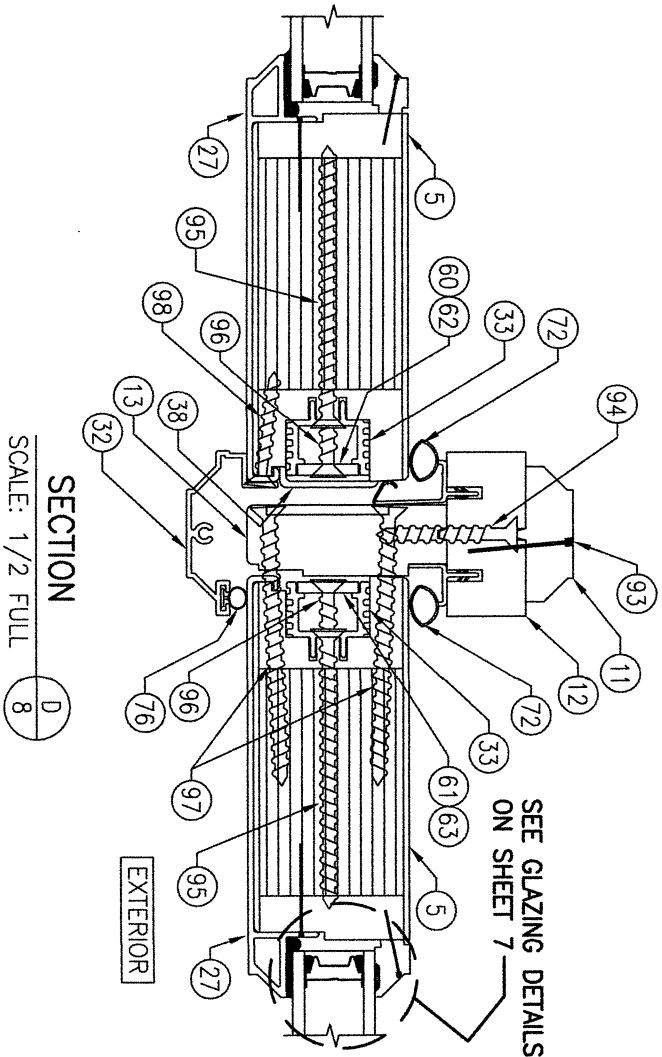
CERTIFICATION	DRAWING NO.	SHEET NO.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1831 D	7 OF 12



SECTION C
 SCALE: 1/2 FULL
 (BUTT HINGE CONDITION SHOWN. FOR ADJUSTABLE HINGE CONDITION SEE THE ALTERNATE HINGE SECTION ON THIS SHEET)



ALTERNATE HINGE SECTION E
 (ADJUSTABLE HINGE CONDITION)
 (FOR DETAIL NOT SHOWN, SEE SECTION C/8)
 FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 10 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.
 NAIL FIN IS NOT SHOWN BUT MAY BE USED IN ADDITION TO ANCHORS SHOWN.



SECTION E
 SCALE: 1/2 FULL

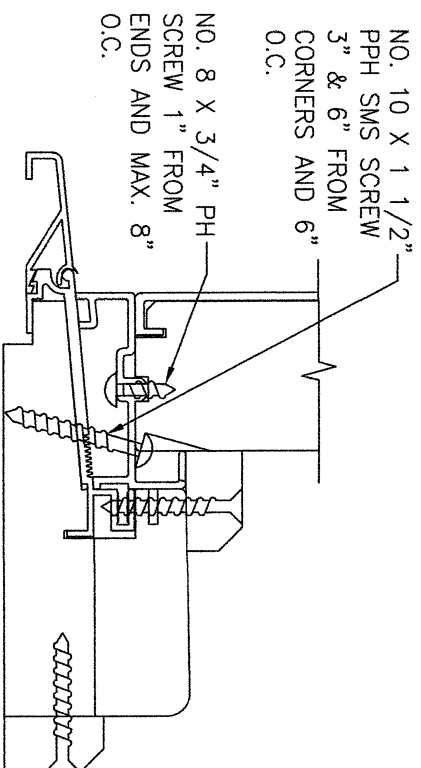
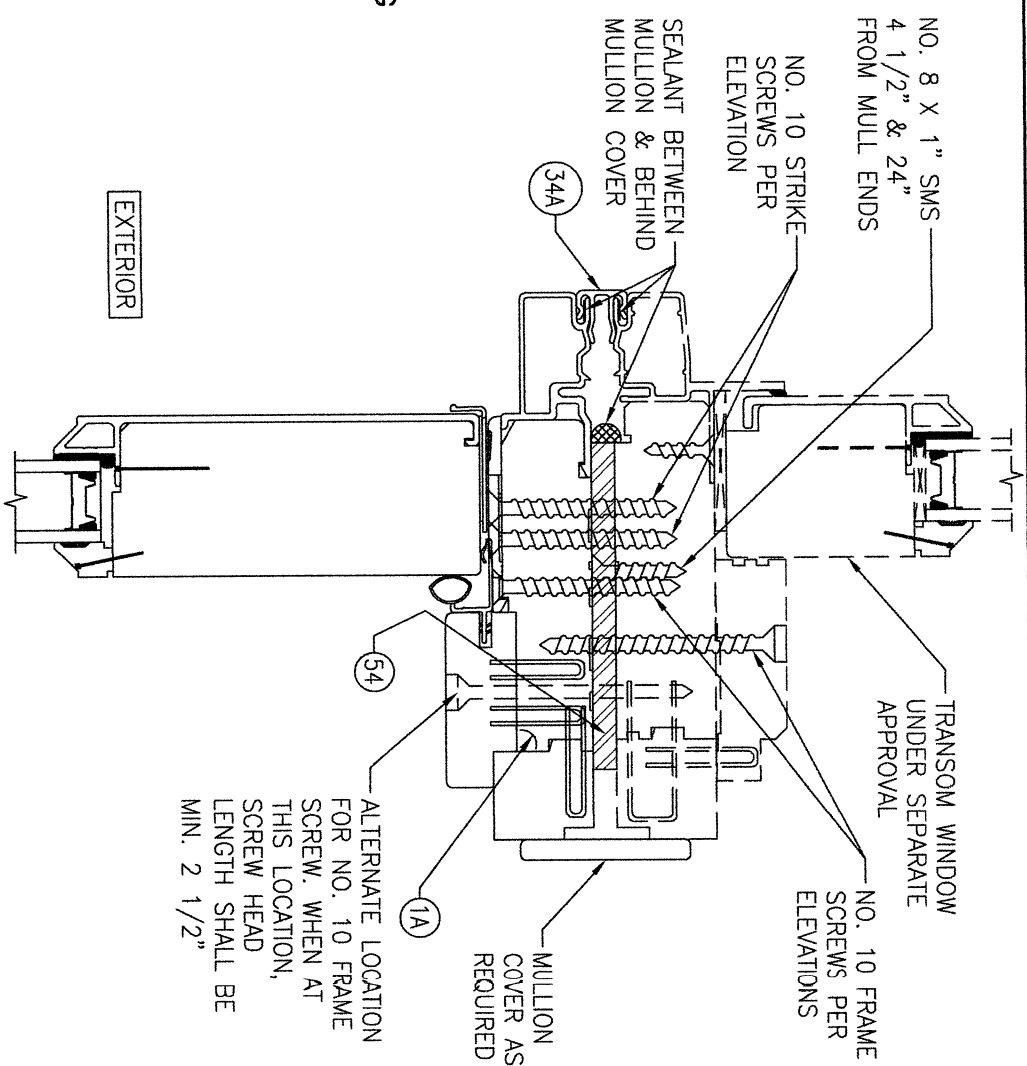
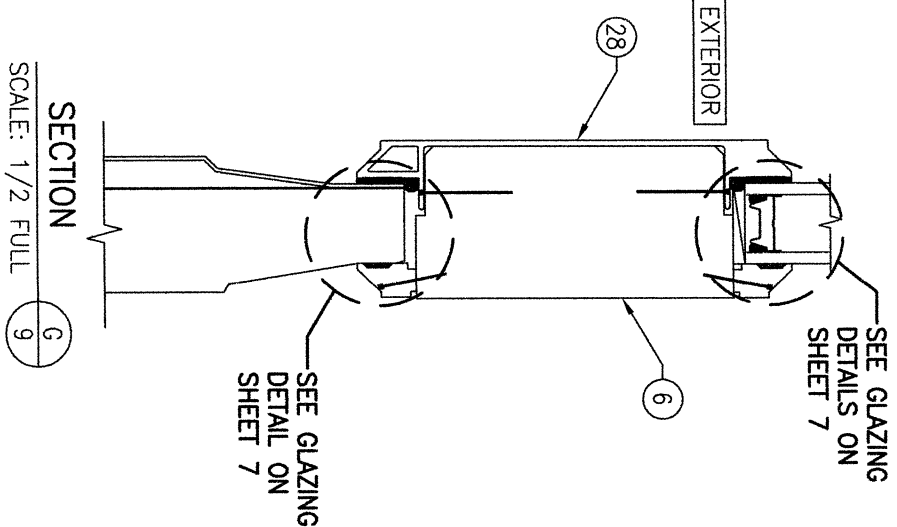
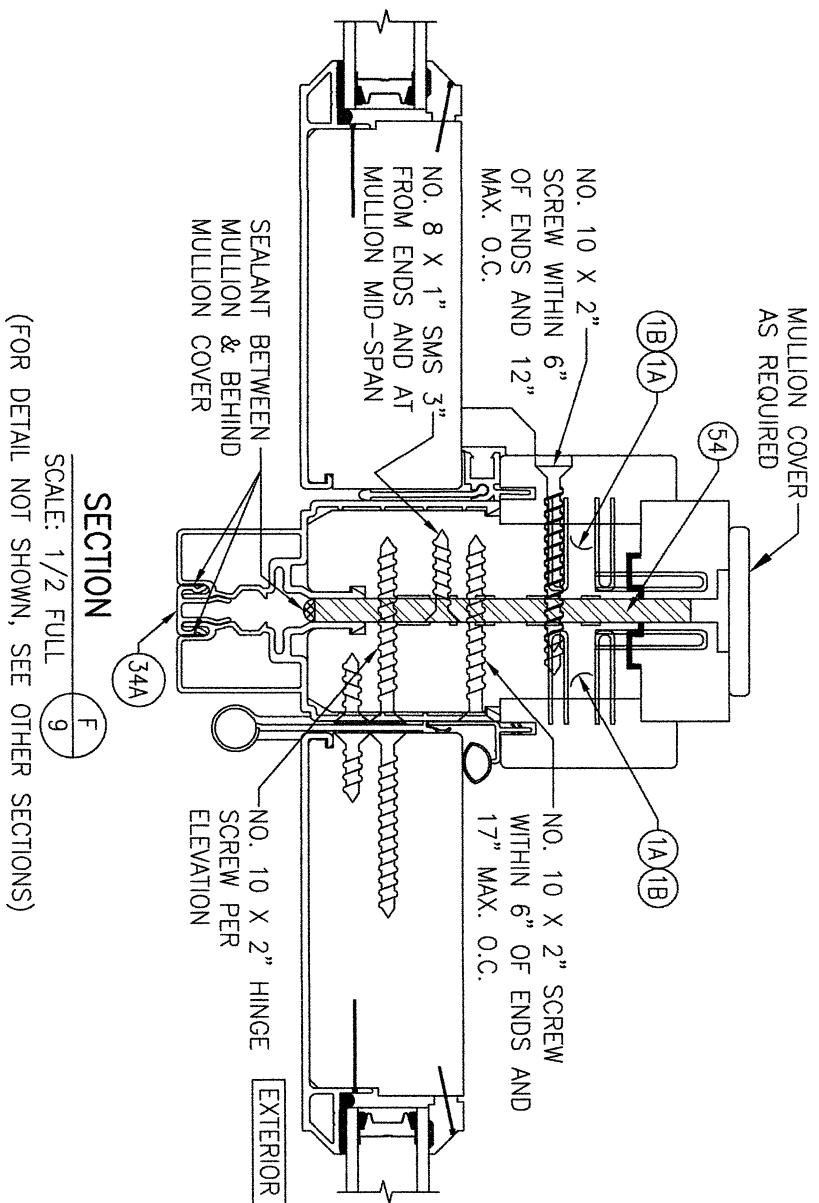
NO.	REVISION	DESCRIPTION	BY	DATE
1-2				

MANUFACTURER
KOLBE & KOLBE MILLWORK CO., INC.
 1323 SOUTH 11TH AVE.
 WAUSAU, WI 54401
 715-842-5666

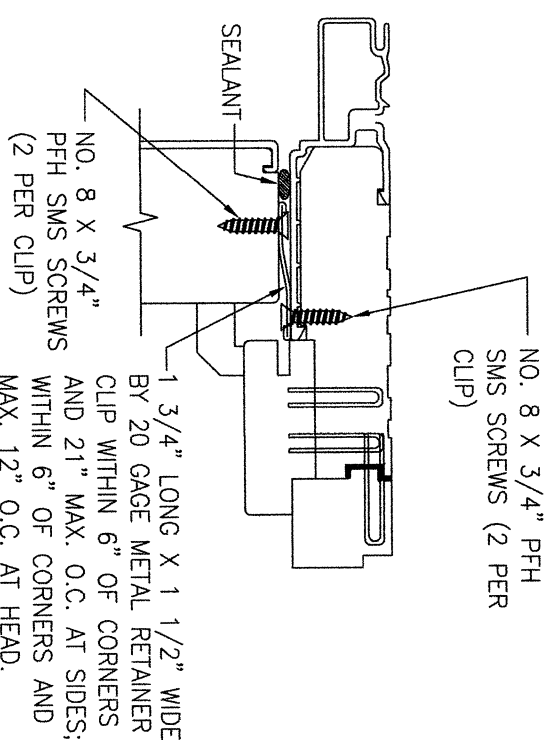
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 25601 AYSEN DRIVE
 PUNTA GORDA, FL 33983

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

DRAWING NO. REV.
1831 D
SHEET NO.
8 OF 12



OPTIONAL PANEL TO SILL ATTACHMENT
(FOR DETAIL NOT SHOWN, SEE SECTION B/7)



**OPTIONAL PANEL TO FRAME ATTACHMENT AT
HEAD & SIDES**
(FOR DETAIL NOT SHOWN, SEE HEAD & SIDE SECTIONS)

[illegible]

ULTRA SERIES MANOR NON-IMPACT DOOR

DRAWING TITLE

CONSULTANTS

**W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.**

25601 AYSEN DRIVE
PUNTA GORDA, FL 33983

MANUFACTURER

KOLBE & KOLBE MILLWORK CO., INC.

1323 SOUTH 11TH AVE.
WAUSAU, WI 54401
715-842-5666

CERTIFICATION

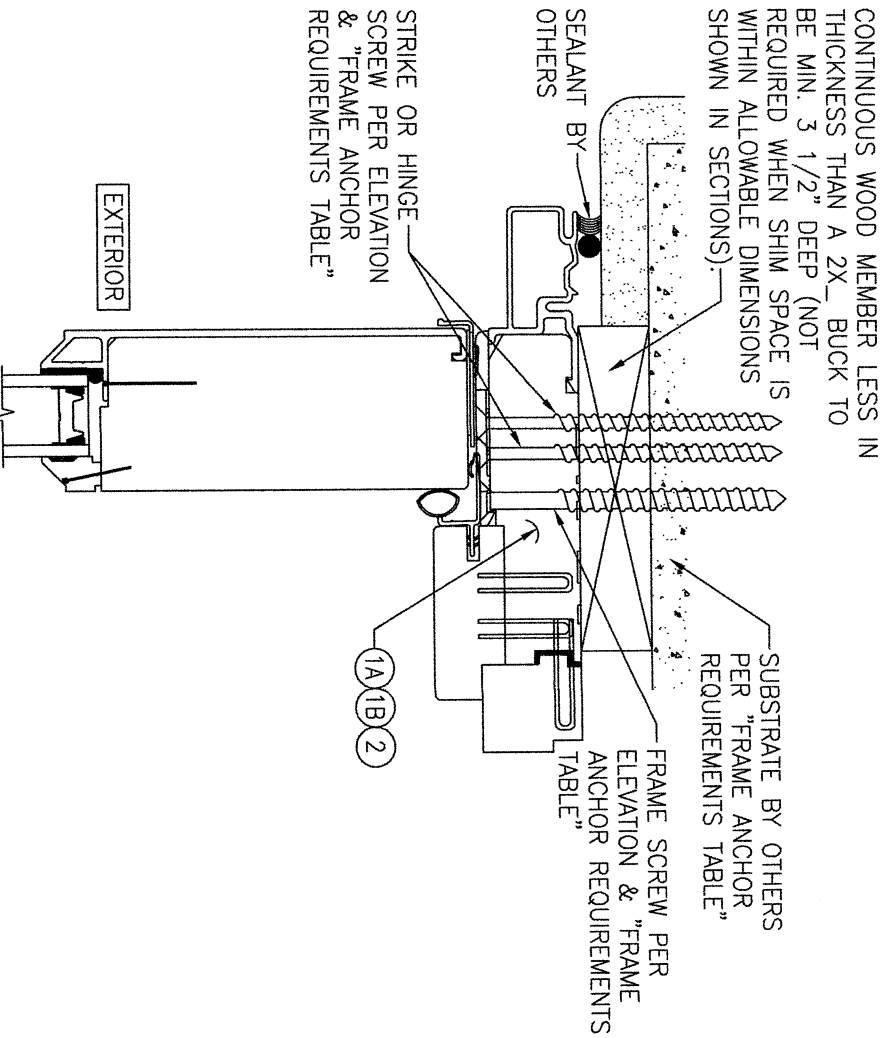
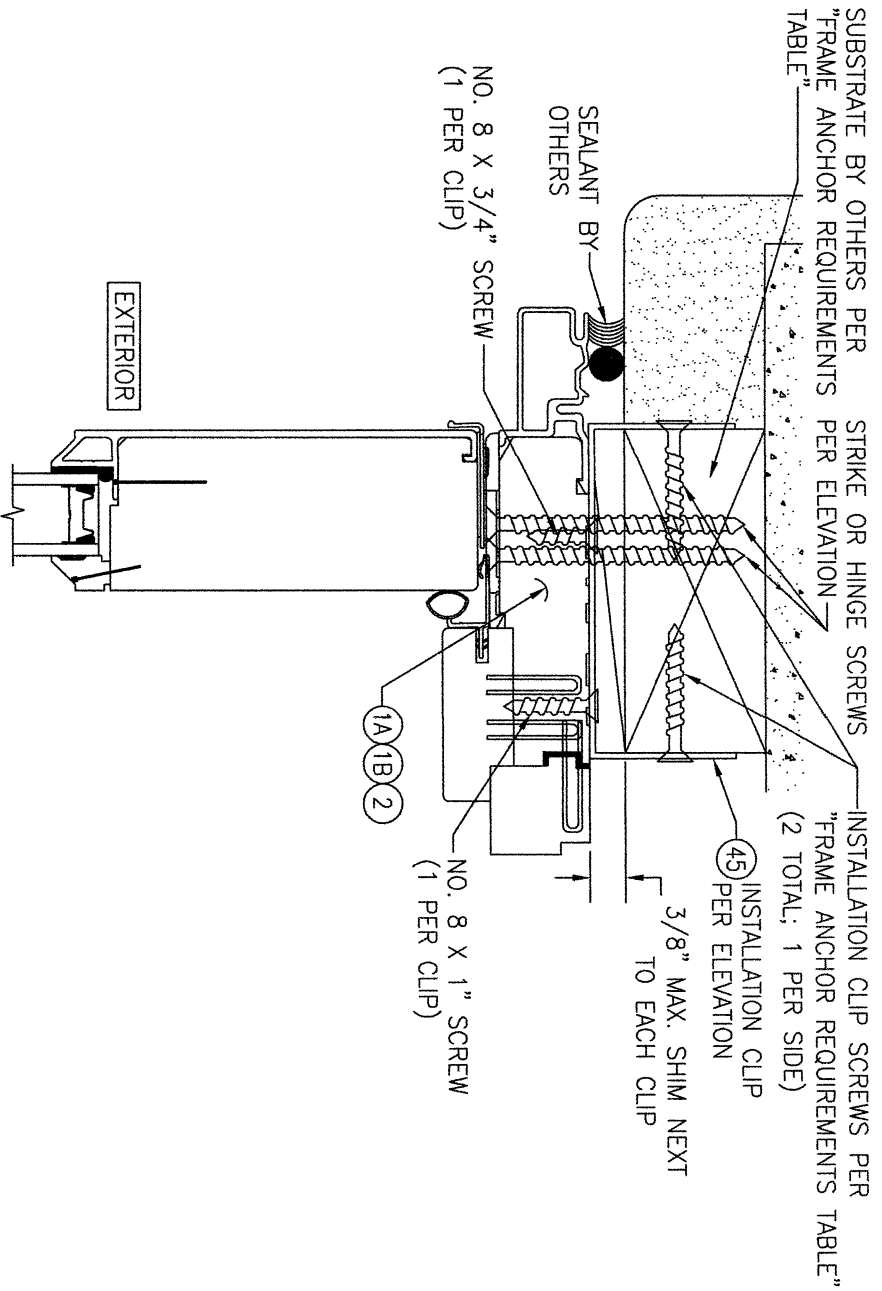
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	REV.
-------------	------

1831	D
------	---

SHEET NO.

9 OF 12

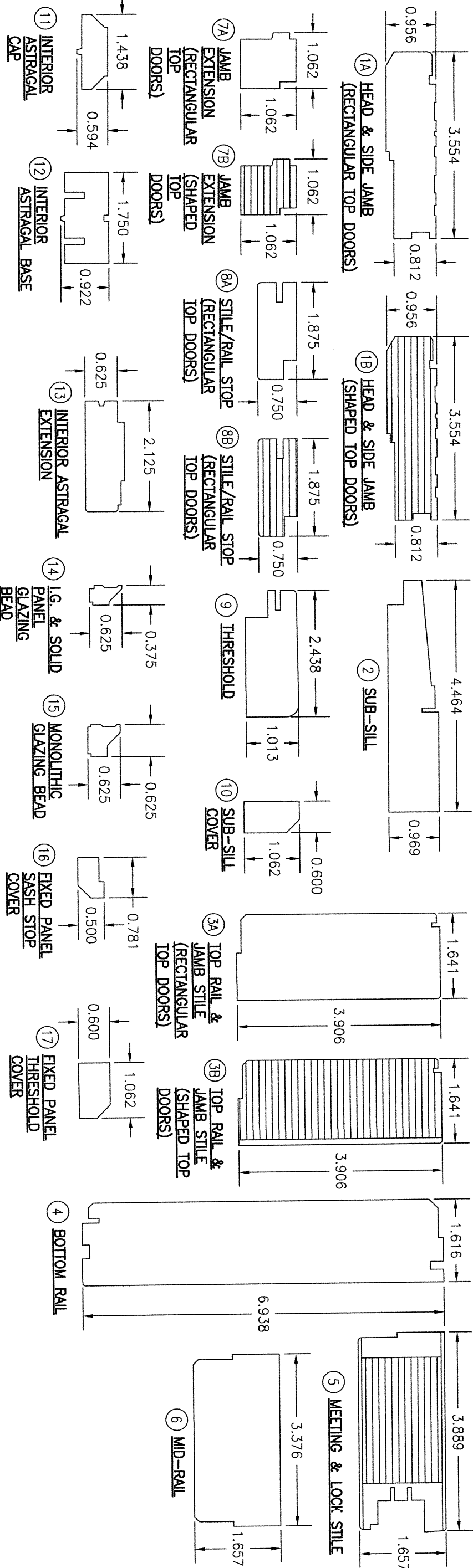


OPTIONAL INSTALLATION CLIP DETAIL

(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(OPERABLE DOOR SHOWN, FIXED PANEL DOOR ALSO APPLIES)

OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(OPERABLE DOOR SHOWN, FIXED PANEL DOOR ALSO APPLIES)



ULTRA SERIES MANOR NON-IMPACT DOOR

CONSULTANTS
**W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.**
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983

MANUFACTURER
KOLBE & KOLBE MILLWORK CO., INC.
1323 SOUTH 11TH AVE.
WAUSAU, WI 54401
715-842-5666

CERTIFICATION

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

DRAWING NO. 1831
REV. D
SHEET NO. 10 OF 12

NO.	REVISION	DESCRIPTION	BY	DATE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

DRAWN BY: W.R.M.
CHECKED BY: W.W.S.
DATE: 06/13/13

