

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 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.
 11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.
- 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

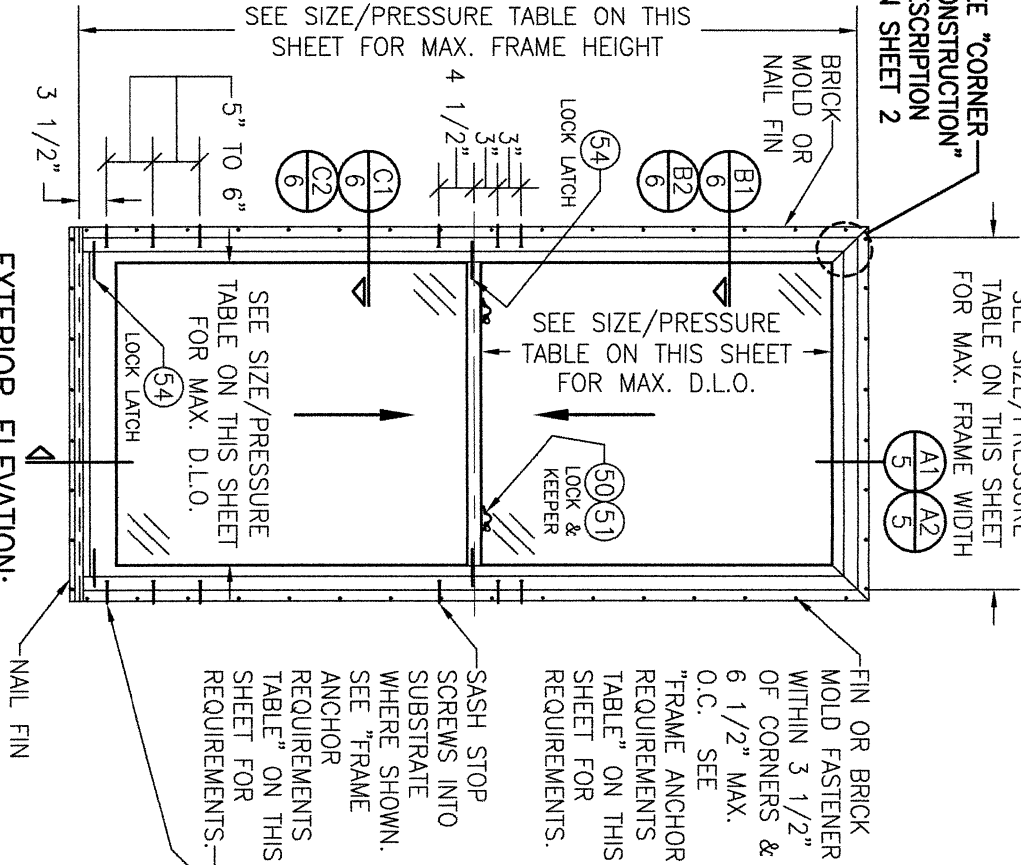
OPENING TYPE (SUBSTRATE)	FRAME/NAIL FIN/BRICK MOLD TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (2) (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 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"
C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
SASH STOP SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (2) (MIN. GR. 3 & G=0.55)	NO. 7 SMS OR WOOD SCREW	1 1/4"	3/4"
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"
C-90 CMU/2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"
NAILING FIN & BRICK MOLD FASTENERS			
MIN. 2X6 WOOD FRAME OR BUCK (2) (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 2X6 WOOD FRAME OR BUCK (2) (MIN. GR. 3 & G=0.55)	10 GA. ROOFING NAIL	1 7/8"	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"

SEE SIZE/PRESSURE
TABLE ON THIS SHEET
FOR MAX. FRAME WIDTH

SEE "CORNER
CONSTRUCTION"
DESCRIPTION
ON SHEET 2

EXTERIOR ELEVATION:
SINGLE WINDOW
SCALE: 1/2" = 1'-0"

(NAIL FIN & BRICK MOLD
MOUNT CONDITIONS)



ALLOWABLE SIZE/PRESSURE TABLE
(SINGLE WINDOW)

MAX. FRAME HEIGHT (IN.)	MAX. FRAME WIDTH (IN.)	MAX. VERTICAL D.L.O. (IN.)	MAX. HORIZONTAL D.L.O. (IN.)	ALLOWABLE PRESSURE (PSF)
120	37 13/16	54 15/16	31 1/16	55
	26 13/16	54 15/16	20 1/16	55
	39 13/16	51 15/16	33 1/16	55
114	28 13/16	51 15/16	22 1/16	55
	41 13/16	48 15/16	35 1/16	55
108	29 13/16	48 15/16	23 1/16	55
	45 13/16	44 15/16	39 1/16	55
100	32 13/16	44 15/16	26 1/16	55
	33 13/16	42 15/16	27 1/16	55
96	35 13/16	39 15/16	29 1/16	55
90	38 13/16	36 15/16	32 1/16	55
84	41 13/16	33 15/16	35 1/16	55
78	45 13/16	30 15/16	39 1/16	55
72	45 13/16	30 15/16	39 1/16	55

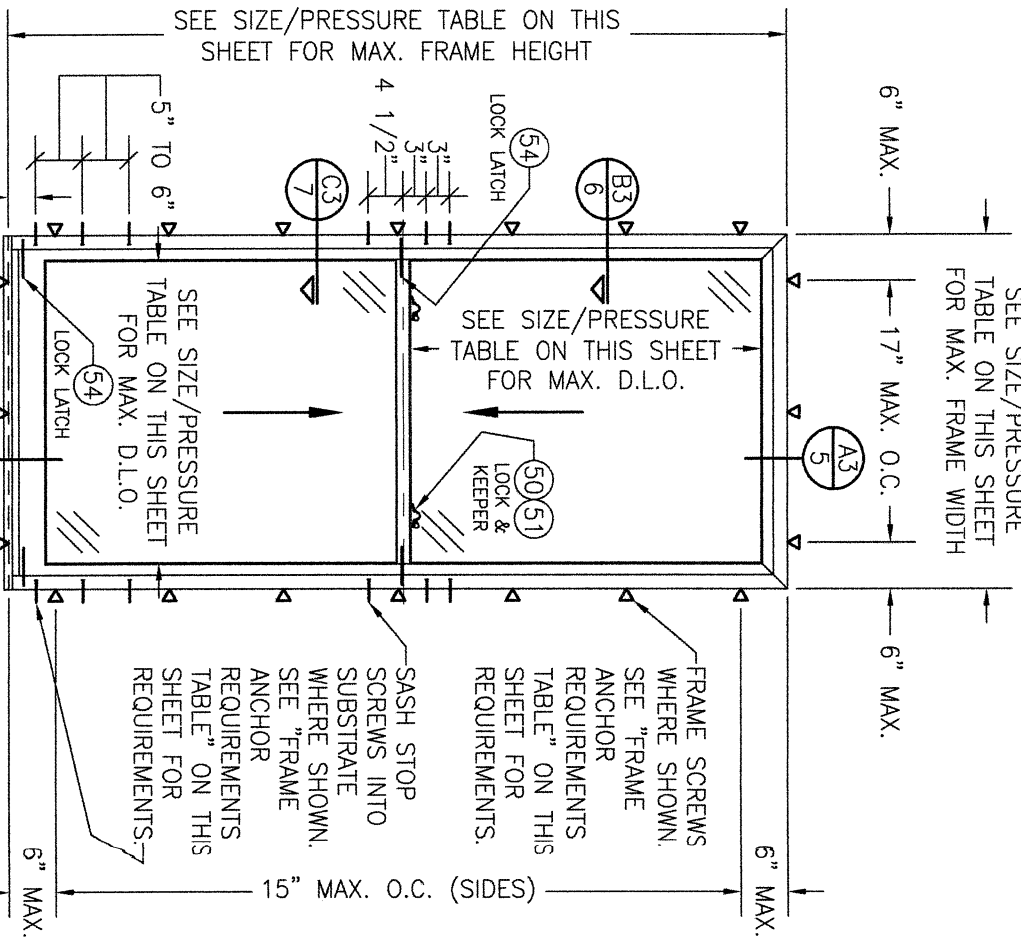
1. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES
& DO NOT EXCEED THE WINDOW AREA TESTED.

SEE SIZE/PRESSURE
TABLE ON THIS SHEET
FOR MAX. FRAME WIDTH

SEE SIZE/PRESSURE
TABLE ON THIS SHEET
FOR MAX. D.L.O.

EXTERIOR ELEVATION:
SINGLE WINDOW
SCALE: 1/2" = 1'-0"

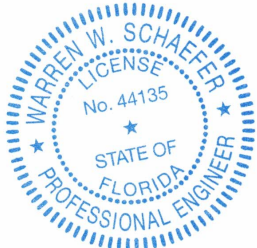
(FRAME SCREW MOUNT CONDITION)



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.

INSTALLATION NOTE:
WHEN NECESSARY, INSTALLATION METHODS MAY BE MIXED WITH ANY ONE WINDOW SUCH THAT INDIVIDUAL SIDES OF THE WINDOW MAY USE ONE OR THE OTHER ANCHOR METHOD (EXAMPLE: SILL MAY USE FRAME SCREWS METHOD WHILE OTHER SIDES USE FIN)

Digitally signed
by Warren W
Schaefer
Date:
2024.08.27
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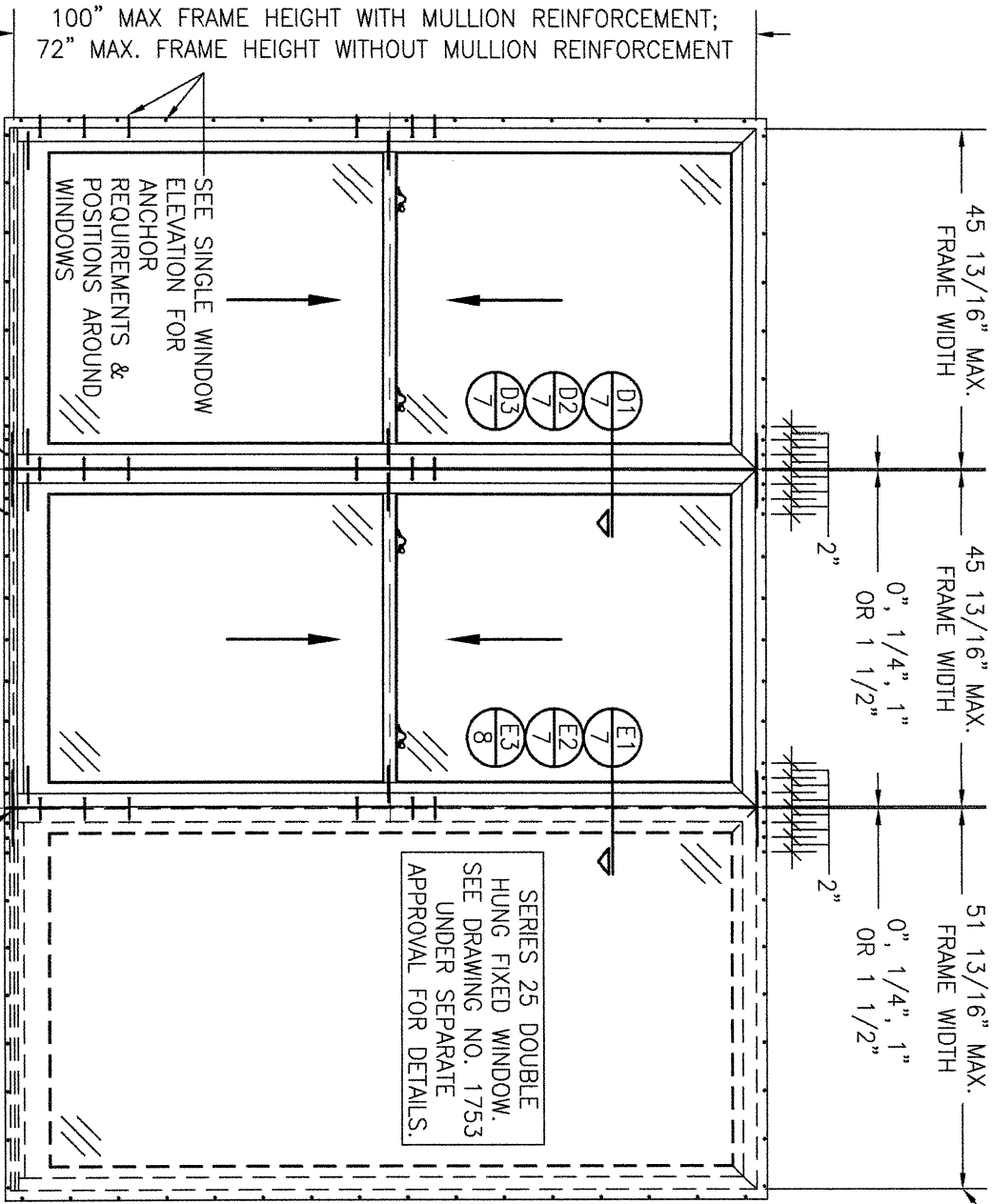


THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO CURENT STANDARDS	W.R.M.	08/17/11
B1	UPDATE TO CURRENT STANDARDS	W.W.S.	01/08/15
C1	PART PROFILE CHANGES	W.W.S.	02/08/17
D1	NEW SILL WEATHERSTRIP	W.W.S.	07/14/20
E1	NEW CHECKRAIL CLAD	W.W.S.	08/10/20
F1	UPDATE WINDOW PARTS	W.W.S.	08/19/24

DRAWING TITLE SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW	MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446
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. 1740 SHEET NO. 1 OF 10	REV. F
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CLUSTER FIN OR BRICK MOLD FASTENERS AT MULLION ENDS SUCH THAT THERE ARE A TOTAL OF 7 POSITIONED AS SHOWN. SEE "FRAME (NAIL FIN & BRICK MOLD MOUNT CONDITIONS) TABLE" ON SHEET 1 FOR REQUIREMENTS.

EXTERIOR ELEVATION:
MULTIPLE DOUBLE HUNG/FIXED WINDOW
SCALE: 1/2" = 1'-0"

SEE CORNER CONSTRUCTION DESCRIPTION FOR MULLION END CONSTRUCTION

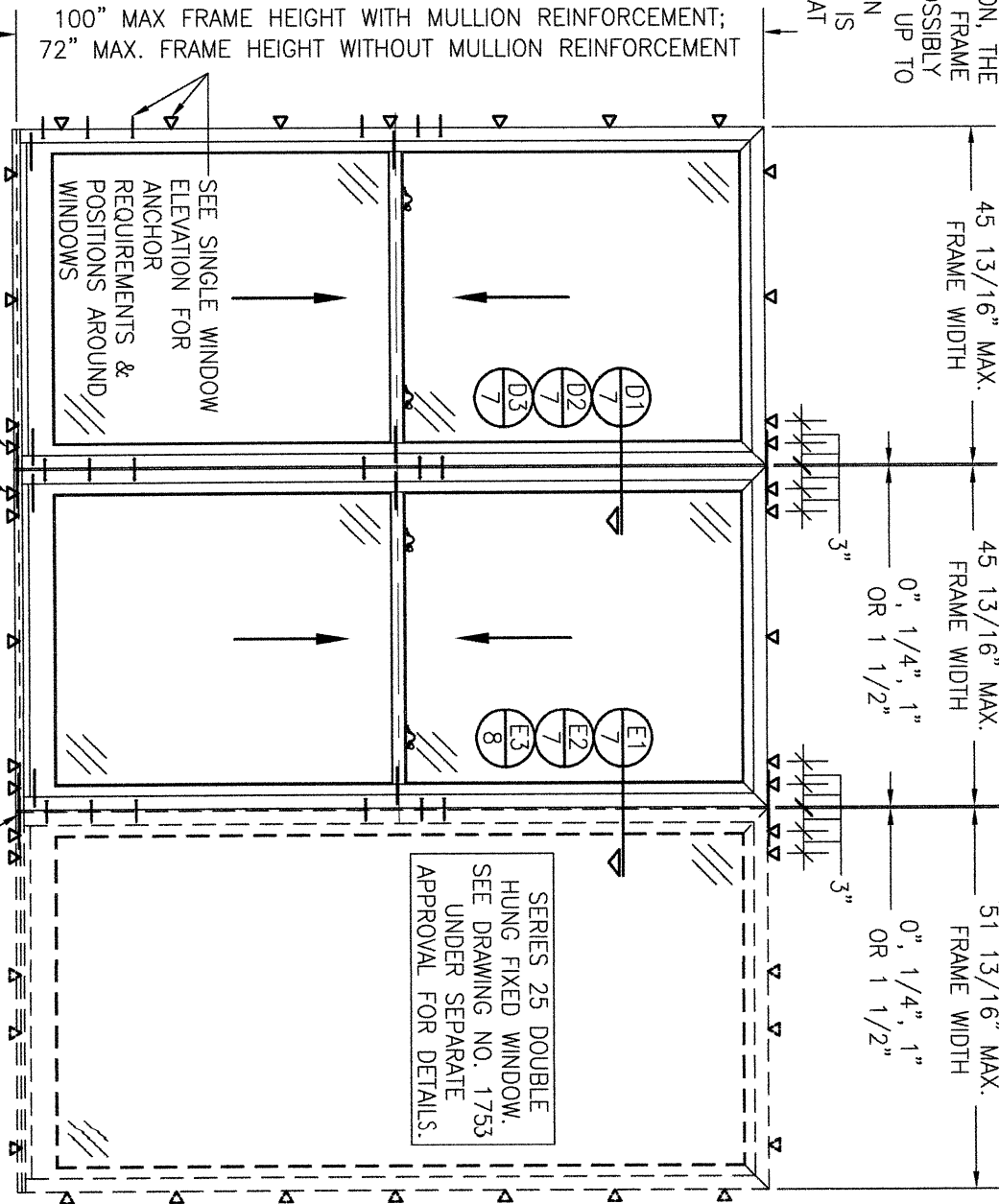
MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL WINDOW ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED HORIZONTALLY IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
3. ANY COMBINATION OF FIXED/OPERABLE WINDOWS IN ONE OPENING SHALL APPLY.
4. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.

CORNER CONSTRUCTION:

FRAME: MEMBERS ARE RABBETTED, BUTTED AND JOINED WITH THREE(3) 16GA. X 7/16" X 1 3/4" STAPLES THROUGH THE HORIZONTAL FRAME MEMBERS INTO THE VERTICAL MEMBERS & TWO(2) 16GA. X 7/16" X 1 3/4" STAPLES THROUGH THE VERTICAL MEMBERS INTO THE HORIZONTAL MEMBERS. CORNERS ARE SEALED WITH POLYURETHANE SEALANT.
RECTANGULAR SASH: MEMBERS ARE COPED, BUTTED AND JOINED WITH THREE(3) 1/4" X 1 3/8" DOWELS AND PVA RESIN PER SASH JOINT (NOTE: 3 1/2" SILL. MEMBER CONTAINS 5 DOWELS).
FRAME CLAD: MEMBERS ARE MITERED & JOINED VIA A CORNER KEY (ITEM #45) & WITH 2 NO. 6 X 3/8" SMS SCREW PER CORNER. ALL CORNERS ARE SEALED WITH POLYURETHANE SEALANT.
SASH CLAD: RAIL CLADDING IS COPED INTO STILE CLADDING & MEMBERS ARE SECURED TO THE SASH WITH CLADDING RETAINER (PART #38).
MULLION ENDS: THE OPPOSING JAMBS AT THE MULLION ENDS SHALL BE JOINED WITH THREE(3) 1/2" X 1" CORRUGATED FASTENERS SPACED 1 1/2" APART & A SINGLE 0.039" X 2 3/4" X 10" 50 KSI GALVANIZED STEEL MULLION END REINFORCEMENT PLATE. THE PLATE IS SECURED TO EACH JAMB MEMBER WITH SIX(6) 16 GA. X 7/16" X 1/2" LONG STAPLES. NOTE THAT WHEN A WOOD REINFORCEMENT IS USED BETWEEN THE JAMBS, EACH JAMB IS JOINED TO THAT REINFORCEMENT WITH 3 CORRUGATED FASTENERS.

NOTE: WITH JOB SPECIFIC EVALUATION & CERTIFICATION, THE FIXED WINDOW FRAME WIDTH MAY POSSIBLY BE INCREASED UP TO 72" WIDE WHEN FRAME HEIGHT IS LESS THAN THAT SPECIFIED.



ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

EXTERIOR ELEVATION:
MULTIPLE DOUBLE HUNG/FIXED WINDOW
SCALE: 1/2" = 1'-0"

SEE CORNER CONSTRUCTION DESCRIPTION FOR MULLION END CONSTRUCTION

ALLOWABLE DESIGN PRESSURE
(SIDE BY SIDE WINDOWS)

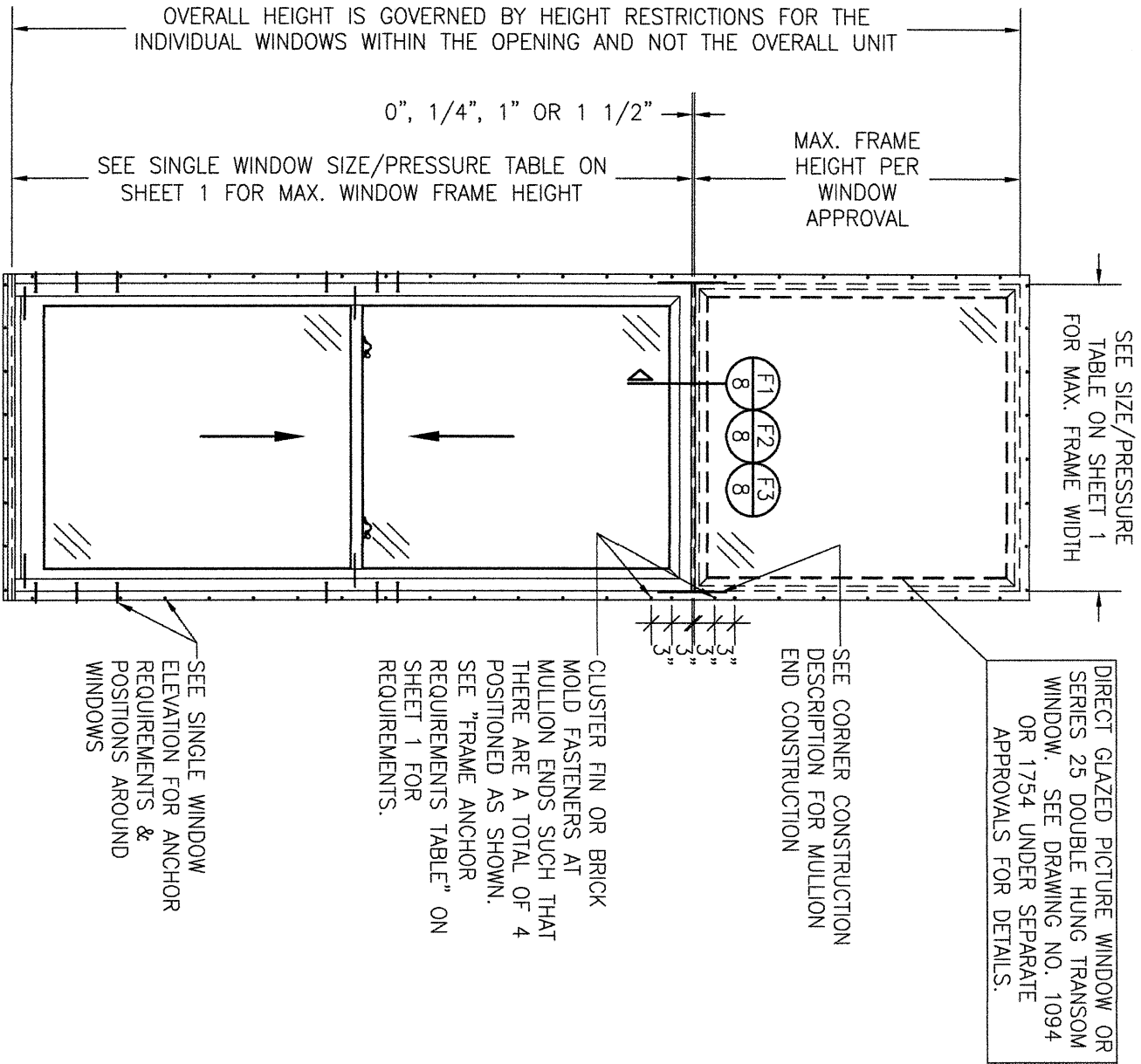
MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE (PSF)
100	55
72	55

NO.	REVISION	DESCRIPTION	BY	DATE

DRAWN BY: W.R.M. CHECKED BY: W.M.S.
DATE: 03/10/11
PLT: 1=24
MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446

DRAWING TITLE SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424

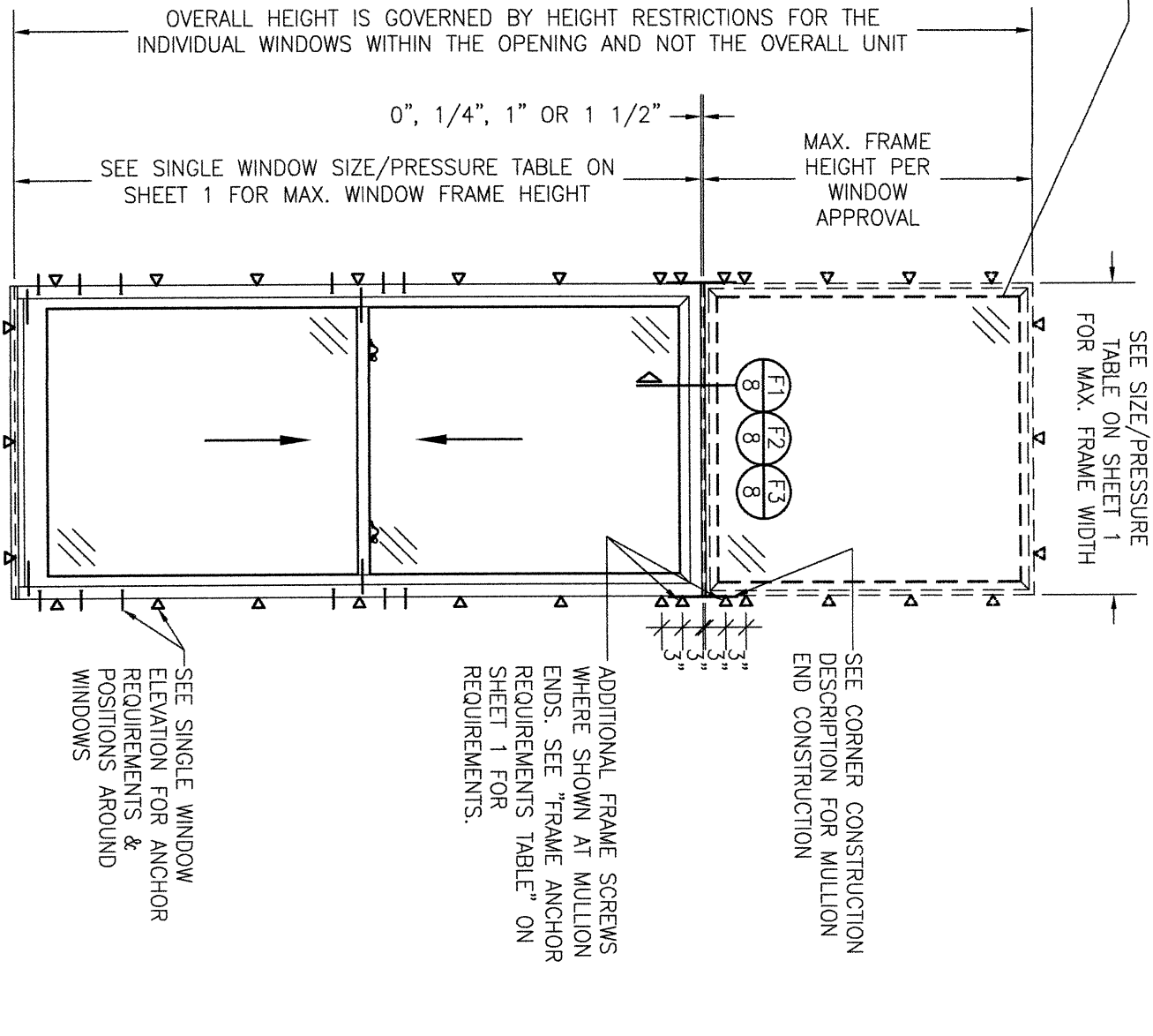
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1740 REV. F
SHEET NO. 2 OF 10



**EXTERIOR ELEVATION:
SINGLE WINDOW WITH TRANSOM**

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

(NAIL FIN & BRICK MOLD MOUNT CONDITIONS)
(SEE SINGLE WINDOW ELEVATION ON SHEET 1 FOR DOUBLE HUNG WINDOW DETAIL NOT SHOWN)



**EXTERIOR ELEVATION:
SINGLE WINDOW WITH TRANSOM**

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

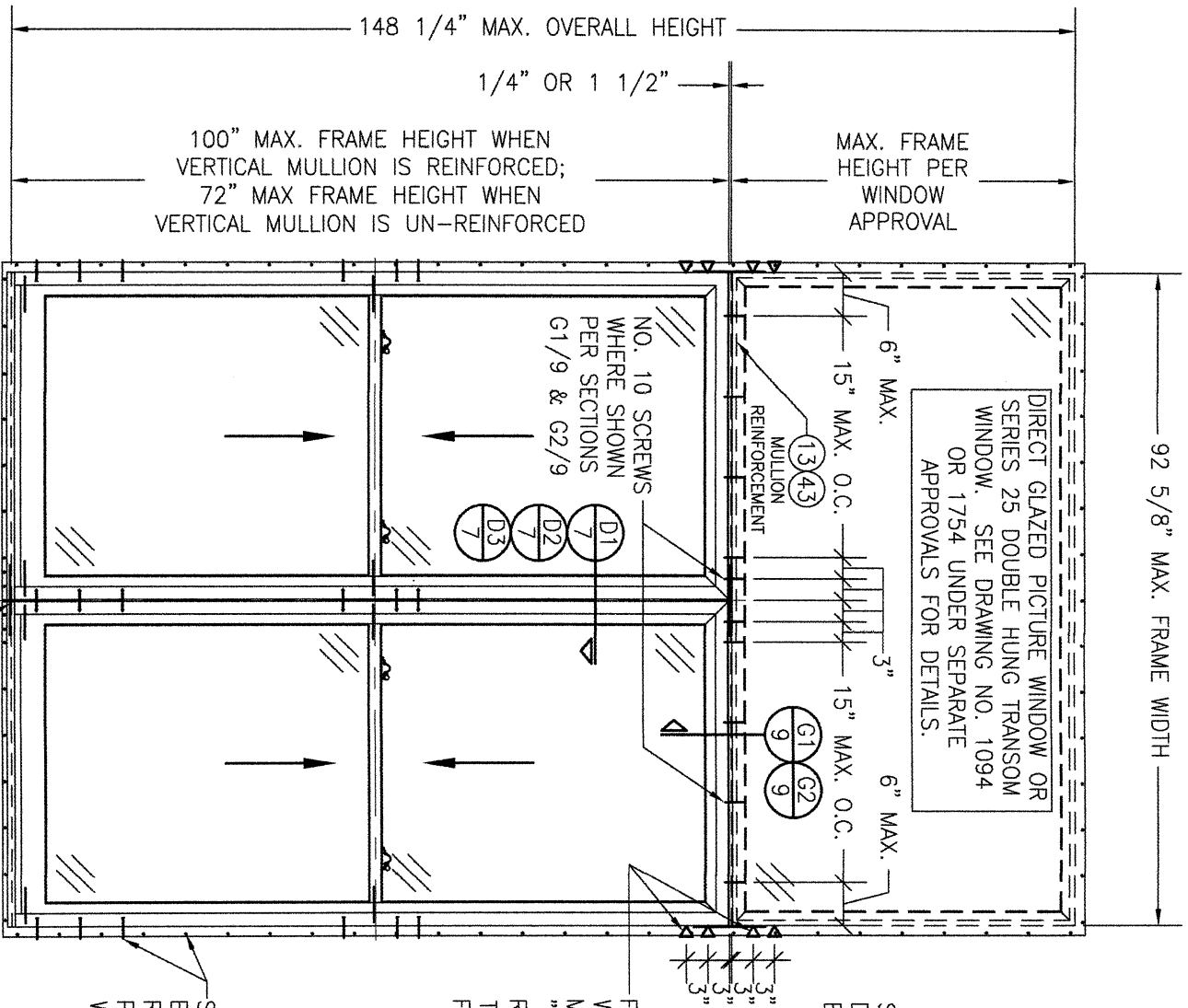
(FRAME SCREW MOUNT CONDITION)
(SEE SINGLE WINDOW ELEVATION ON SHEET 1 FOR DOUBLE HUNG WINDOW DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (SINGLE WINDOW WITH TRANSOM)	
ALLOWABLE PRESSURE SHALL BE AS RESTRICTED BY THE INDIVIDUAL WINDOW ALLOWABLE PRESSURES	

				PLT:	DRAWN BY:
				1=24	W.R.M.
				DATE:	CHECKED BY:
				03/10/11	W.M.S.
NO.	REVISION	DESCRIPTION	BY	DATE	

DRAWING TITLE	
SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446

CERTIFICATION	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1740	F
SHEET NO.	3 OF 10

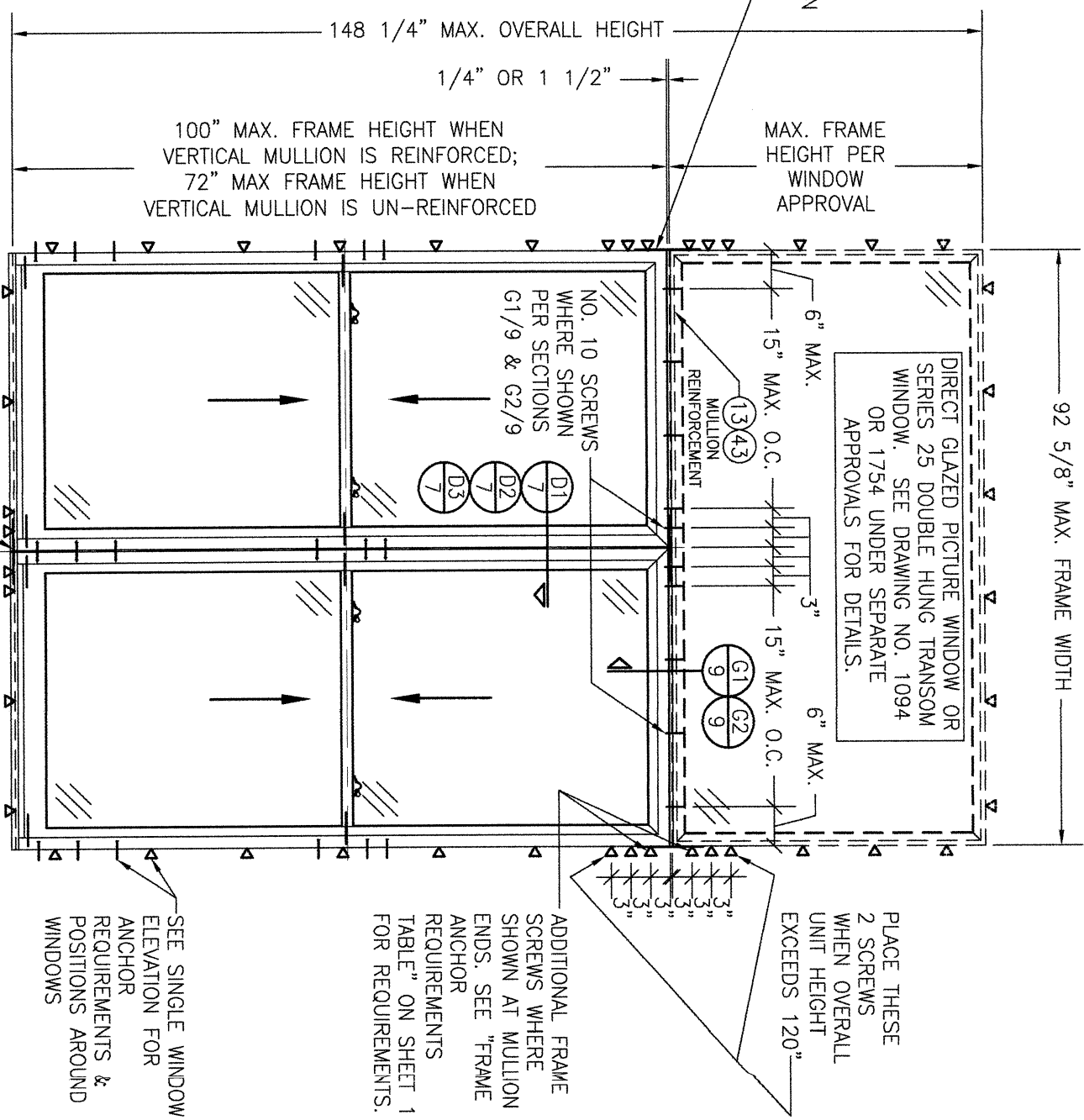


EXTERIOR ELEVATION:
TWO WINDOWS MULLED WITH SINGLE TRANSOM

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

(NAIL FIN & BRICK MOLD MOUNT CONDITIONS)

(SEE SINGLE WINDOW ELEVATION ON SHEET 1 FOR DOUBLE HUNG WINDOW DETAIL NOT SHOWN)



EXTERIOR ELEVATION:
TWO WINDOWS MULLED WITH SINGLE TRANSOM

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

(FRAME SCREW MOUNT CONDITION)

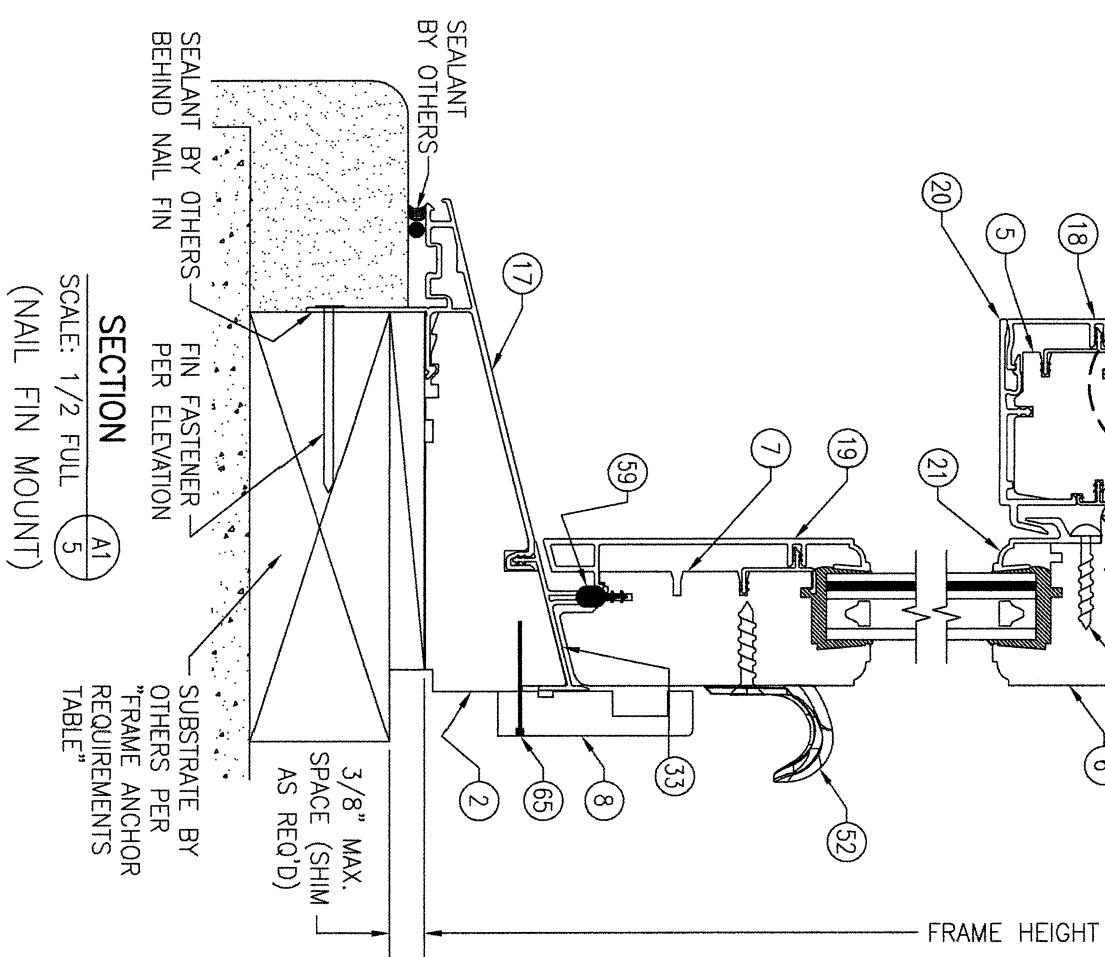
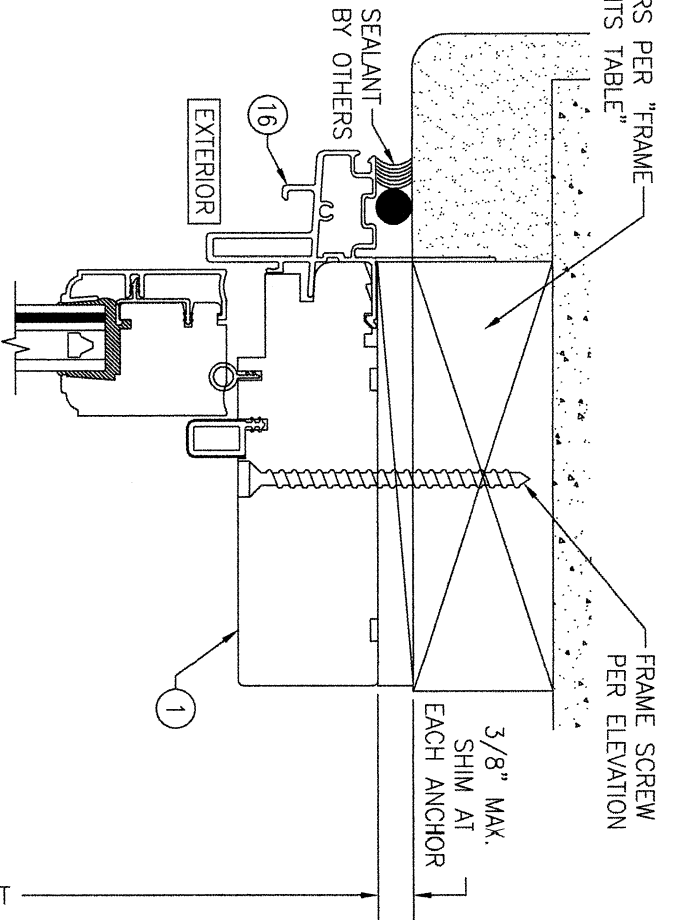
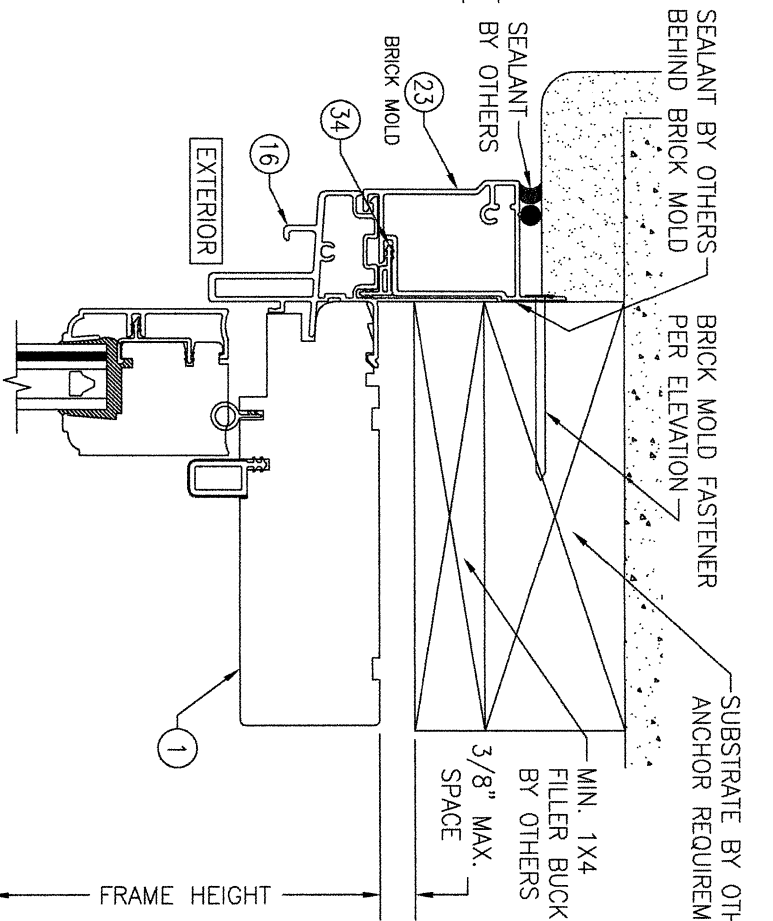
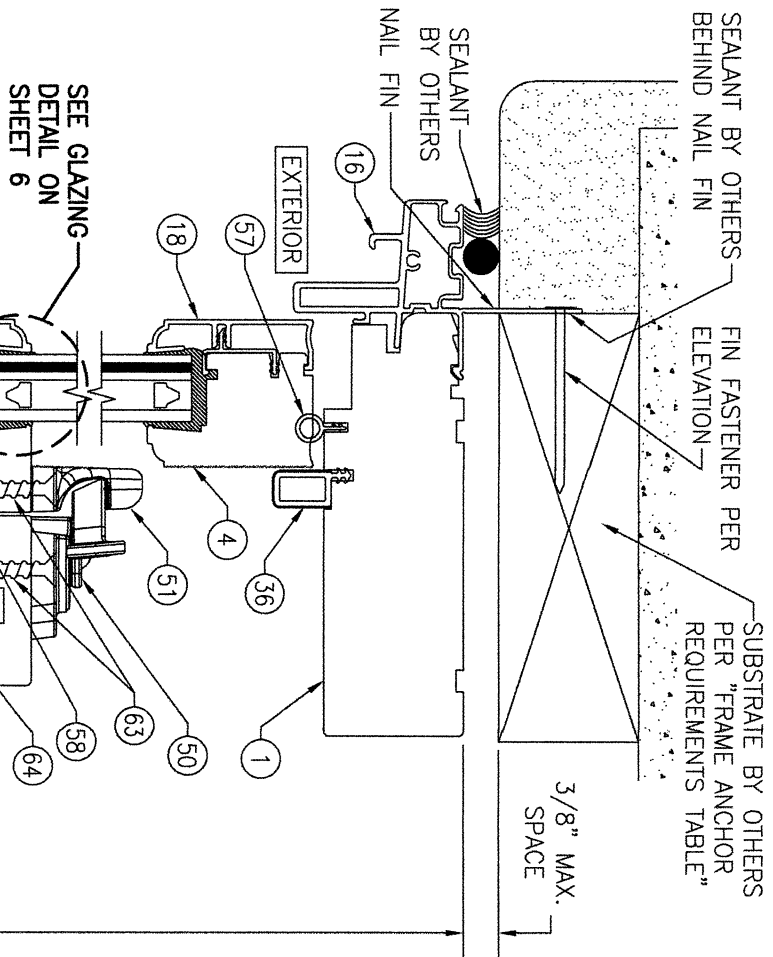
(SEE SINGLE WINDOW ELEVATION ON SHEET 1 FOR DOUBLE HUNG WINDOW DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE
(DOUBLE WINDOW WITH TRANSOM)
+/-55 PSF

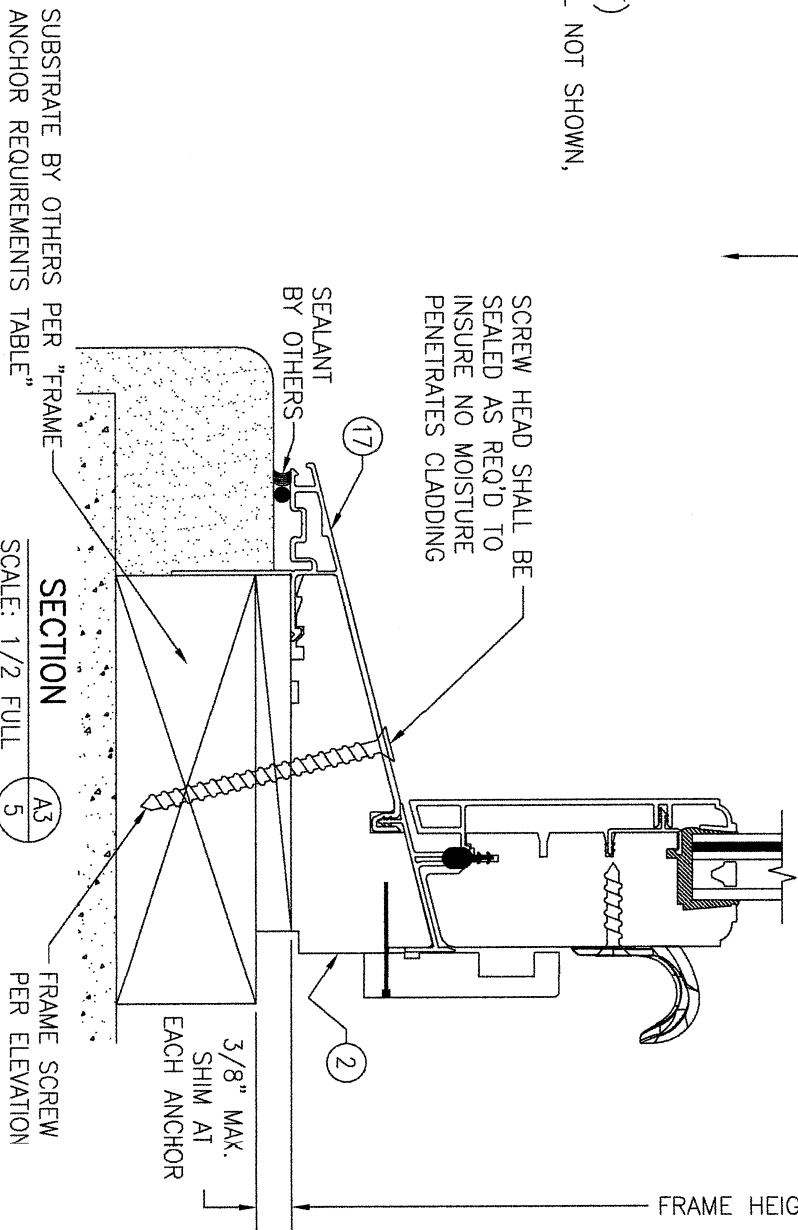
NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW		DRAWN BY: W.R.M. CHECKED BY: W.M.S.
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		DATE: 03/10/11
MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446		

CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1740 REV. F
SHEET NO. 4 OF 10		



SECTION A2
SCALE: 1/2 FULL
(BRICK MOLD MOUNT)
(FOR CHECK RAIL, SILL & OTHER DETAIL NOT SHOWN, SEE SECTION A1/5)



SECTION A3
SCALE: 1/2 FULL
(FRAME SCREW MOUNT)
(FOR CHECK RAIL & OTHER DETAIL NOT SHOWN, SEE SECTION A1/5)

SECTION A1
SCALE: 1/2 FULL
(NAIL FIN MOUNT)

NO.	REVISION	DESCRIPTION	BY	DATE	DRAWN BY:	CHECKED BY:
					M.A.M.	M.A.S.

MANUFACTURER
C.P. LOEWEN ENTERPRISES
77 HWY 52 WEST
STEINBACH, MB, CANADA R5G 1B2
204-326-6446

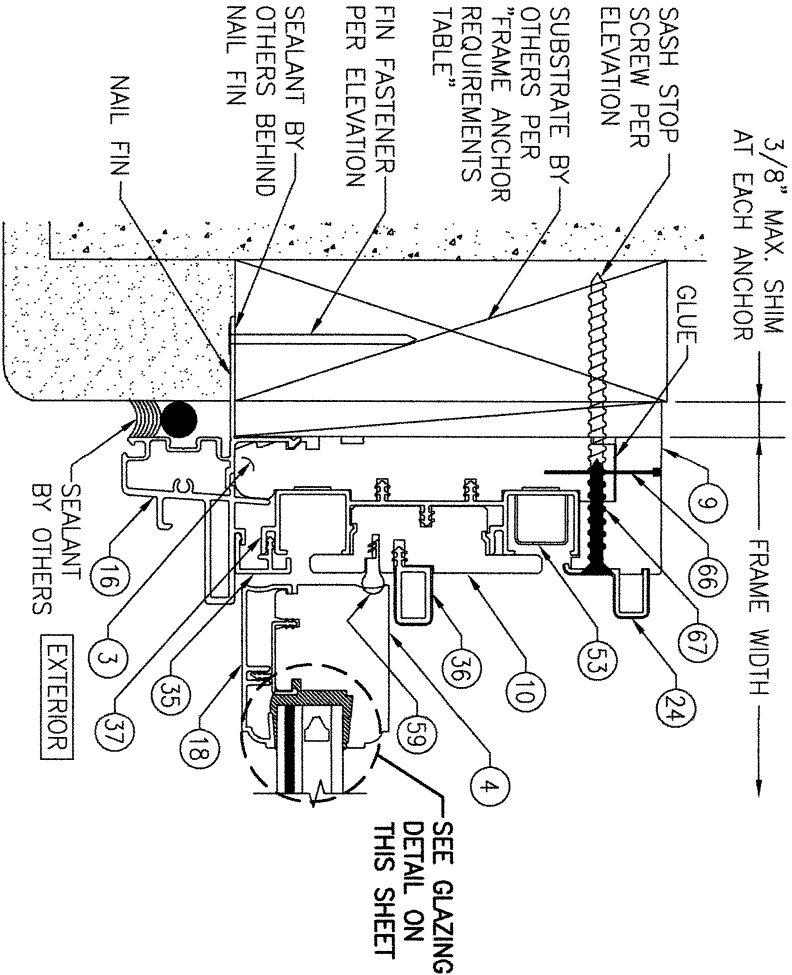
DRAWING TITLE
SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW

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

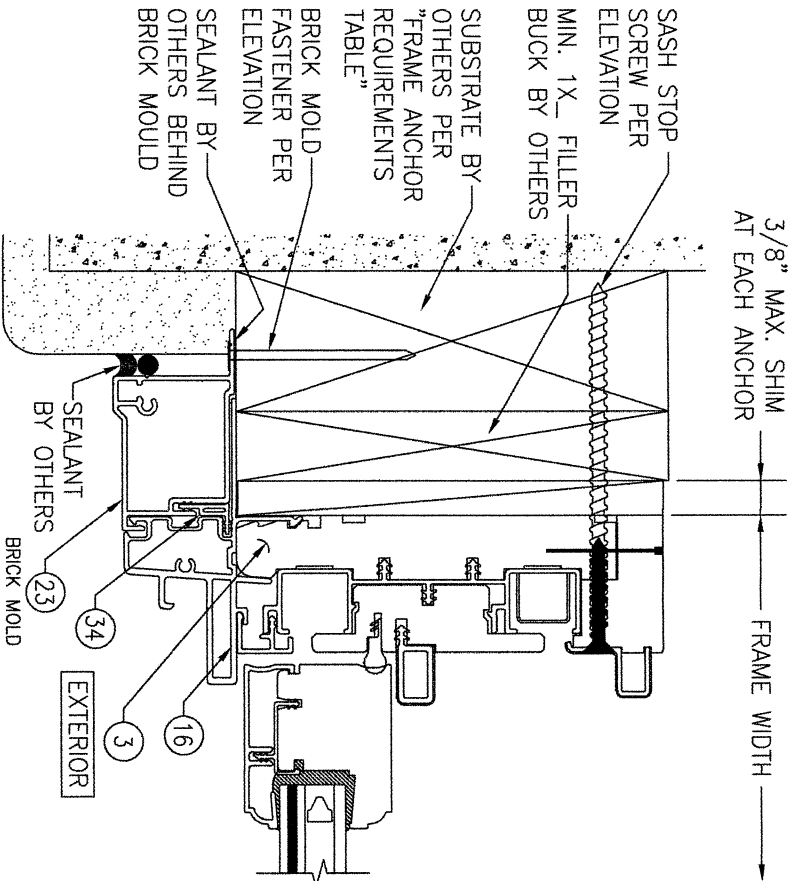
CERTIFICATION

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

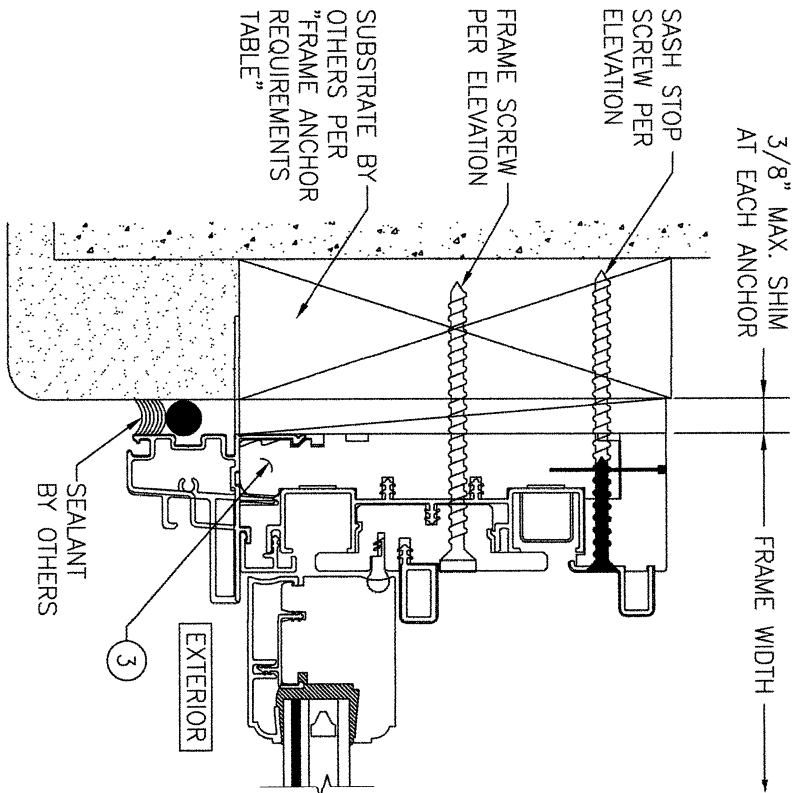
DRAWING NO. 1740
SHEET NO. 5 OF 10
REV. F



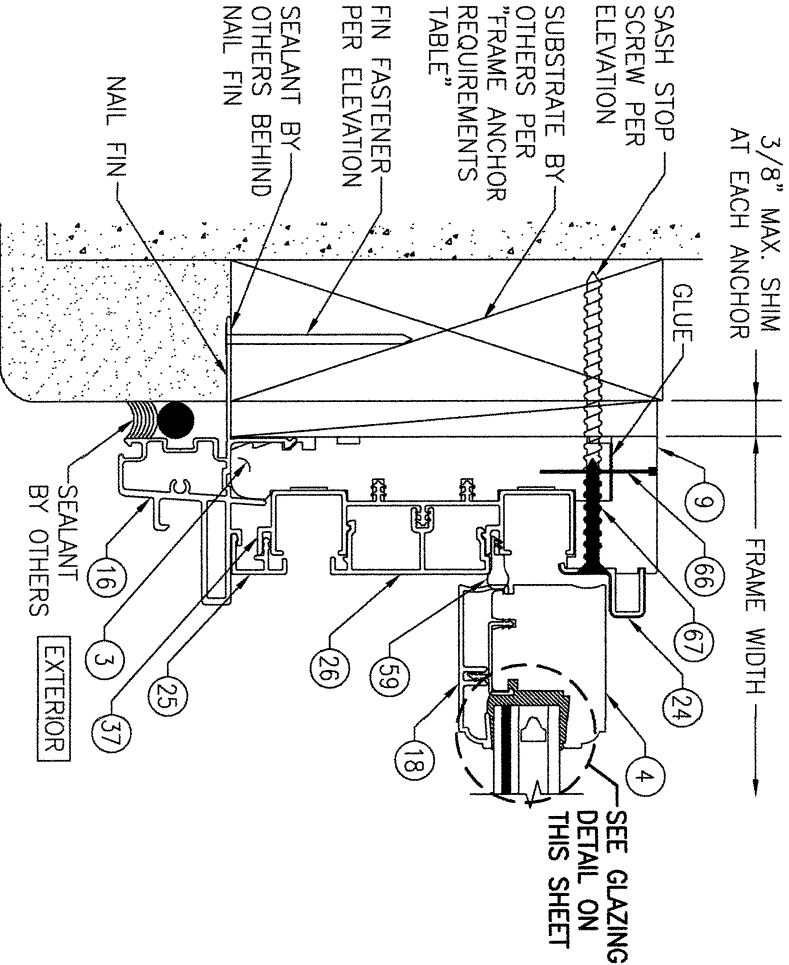
SECTION B1
SCALE: 1/2 FULL
(NAIL FIN MOUNT)



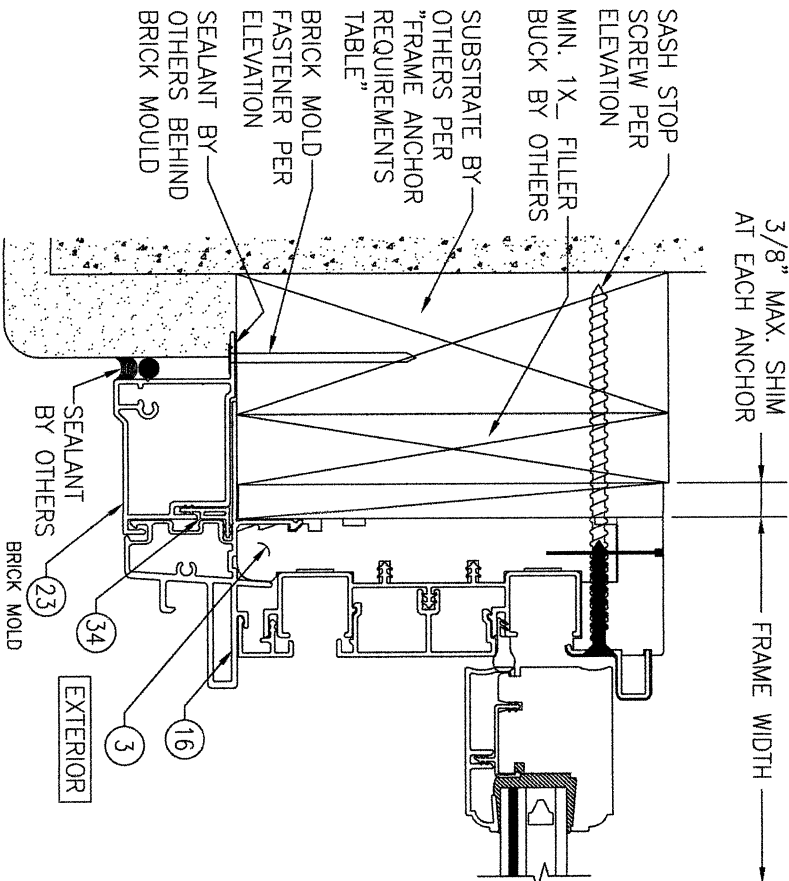
SECTION B2
SCALE: 1/2 FULL
(BRICK MOLD MOUNT)
(FOR DETAIL NOT SHOWN, SEE SECTION B1/6)



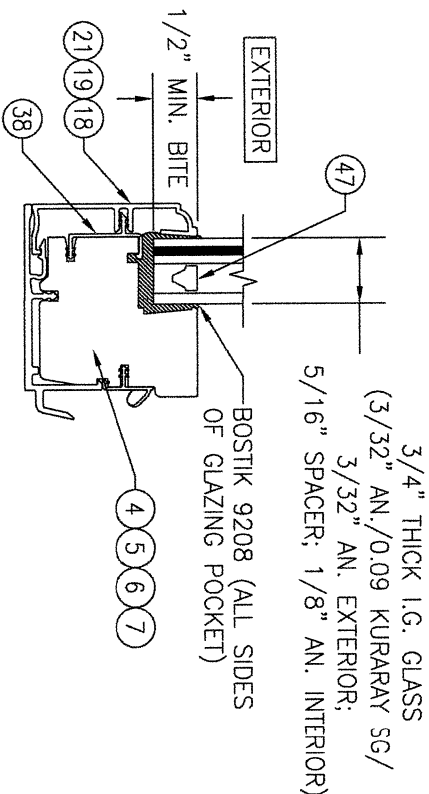
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(FRAME SCREW MOUNT)
(FOR DETAIL NOT SHOWN, SEE SECTION B1/6)



SECTION C1
SCALE: 1/2 FULL
(NAIL FIN MOUNT)



SECTION C2
SCALE: 1/2 FULL
(BRICK MOLD MOUNT)
(FOR DETAIL NOT SHOWN, SEE SECTION C1/6)

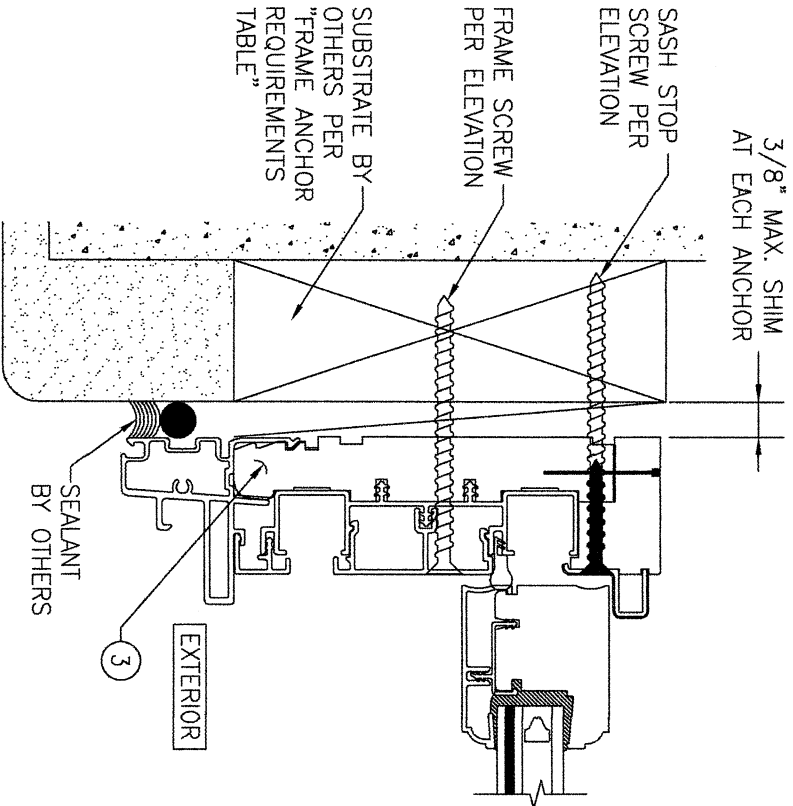


TYPICAL GLAZING DETAIL
3/8" X 3 1/8" X 1/8" THICK
PVC RUBBER SETTING BLOCKS
ARE PLACED AT EACH SIDE ALONG
EACH GLASS EDGE AT 1/4 POINTS
(2 PER SIDE).

NO.	REVISION	DESCRIPTION	BY	DATE
1	2			

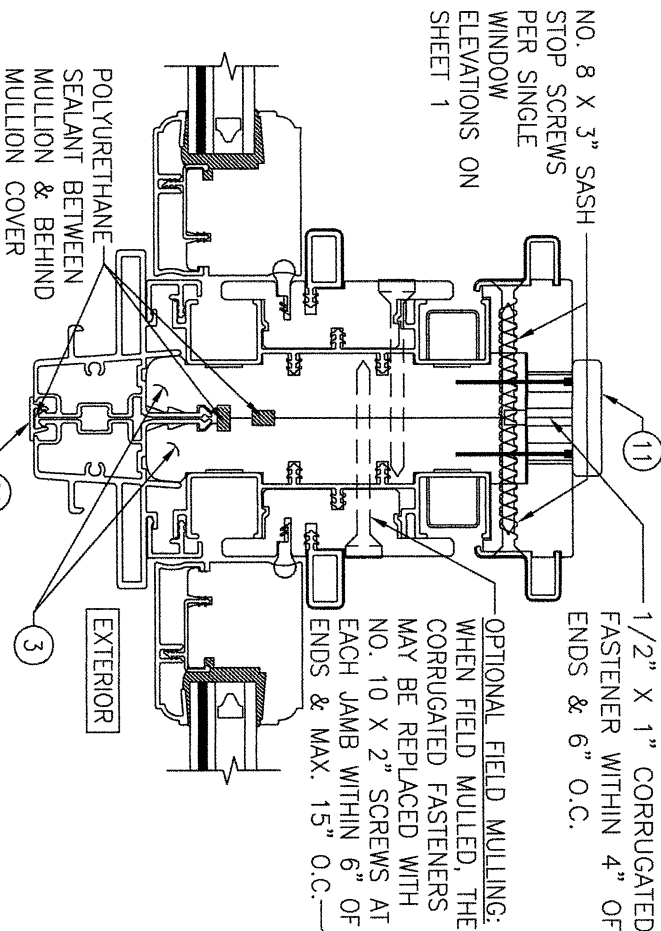
DRAWN BY: W.M.M.	CHECKED BY: W.M.S.
DATE: 03/10/11	
PLT: 1-2	
DRAWING TITLE	
SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	C.P. LOEWEN ENTERPRISES
25601 AYSEN DRIVE	77 HWY 52 WEST
PUNTA GORDA, FL 33983	STEINBACH, MB, CANADA R5G 1B2
PHONE: 561-744-3424	204-326-6446

CERTIFICATION	DRAWING NO. 1740	REV. F
WARREN W. SCHAEFER, P.E.	SHEET NO. 6	OF 10
P.E. NO. 44135		



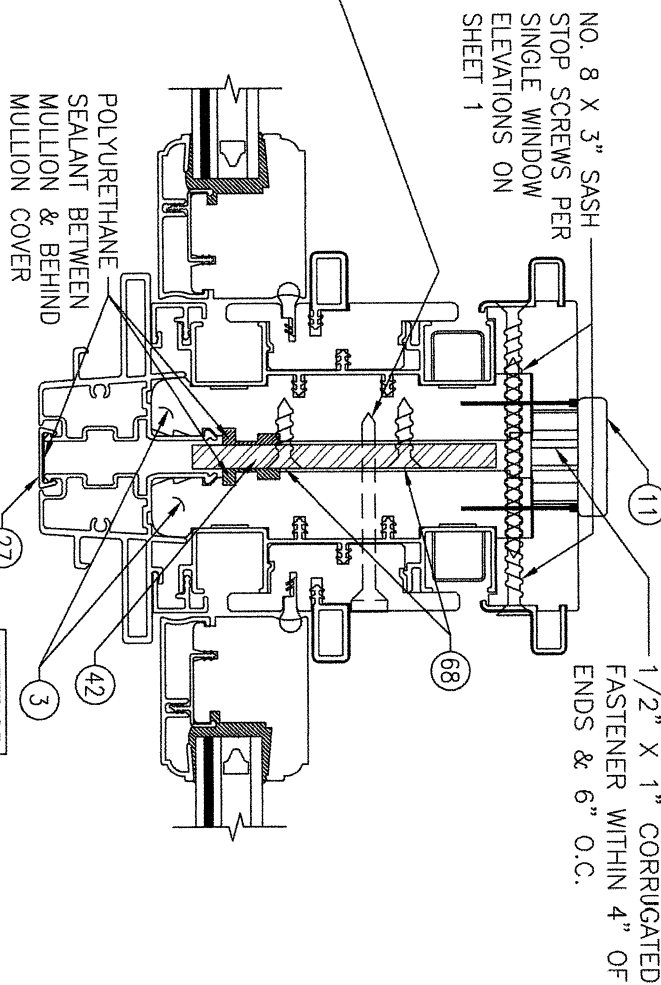
SECTION C3
SCALE: 1/2 FULL 7

(FRAME SCREW MOUNT)
(FOR DETAIL NOT SHOWN, SEE SECTION C1/6)



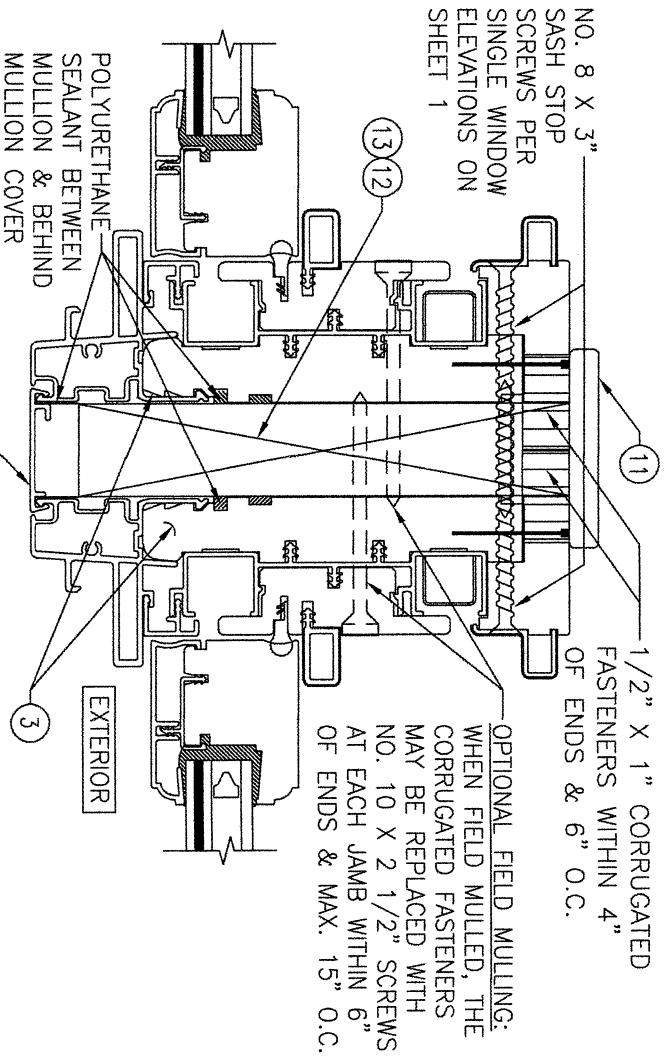
SECTION D1
SCALE: 1/2 FULL 7

(D.H. TO D.H. WITH NON-REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



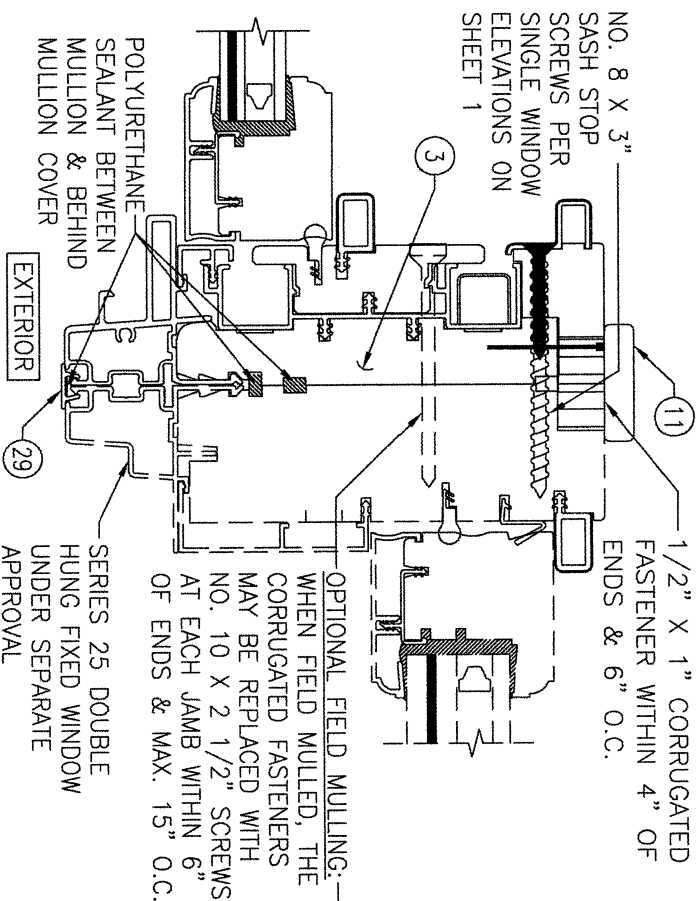
SECTION D2
SCALE: 1/2 FULL 7

(D.H. TO D.H. WITH BAR REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



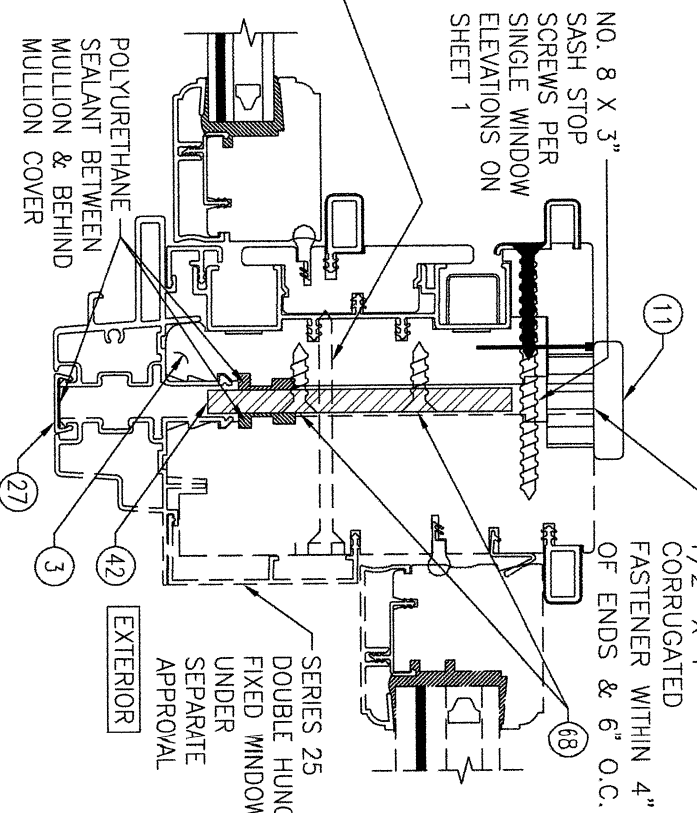
SECTION D3
SCALE: 1/2 FULL 7

(D.H. TO D.H. WITH WOOD REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION E1
SCALE: 1/2 FULL 7

(D.H. TO FIXED WITH NON-REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



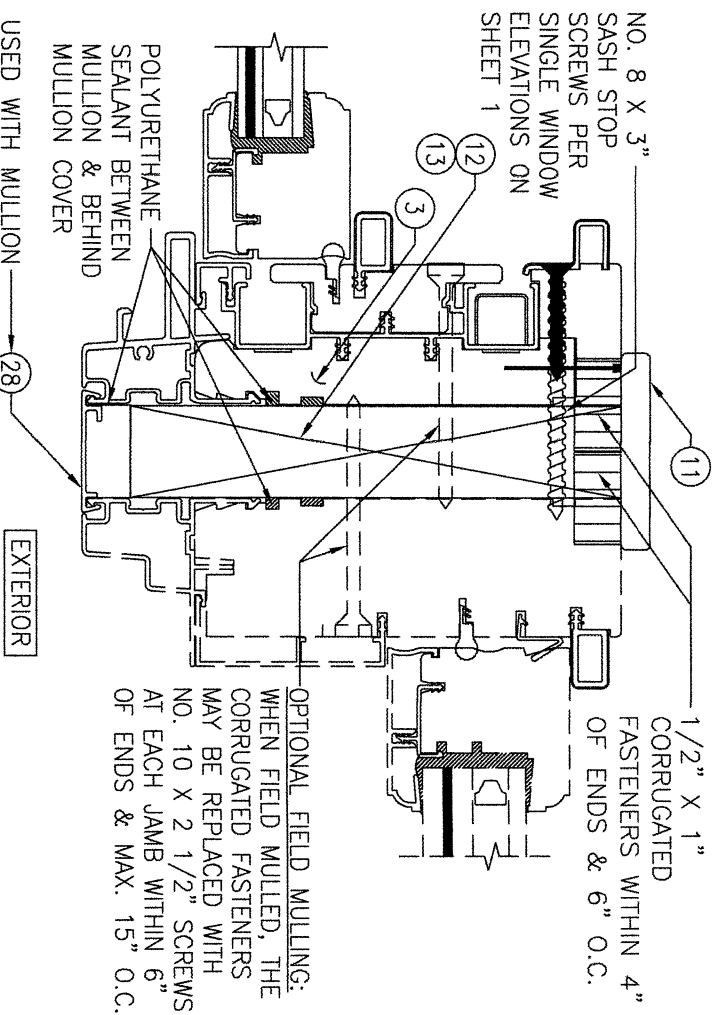
SECTION E2
SCALE: 1/2 FULL 7

(D.H. TO FIXED WITH BAR REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO.	REVISION	DESCRIPTION	BY	DATE
1-2				

DRAWING TITLE	CONSULTANTS	MANUFACTURER
SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	C.P. LOEWEN ENTERPRISES
	25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446

CERTIFICATION	DRAWING NO.	SHEET NO.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1740	7 OF 10



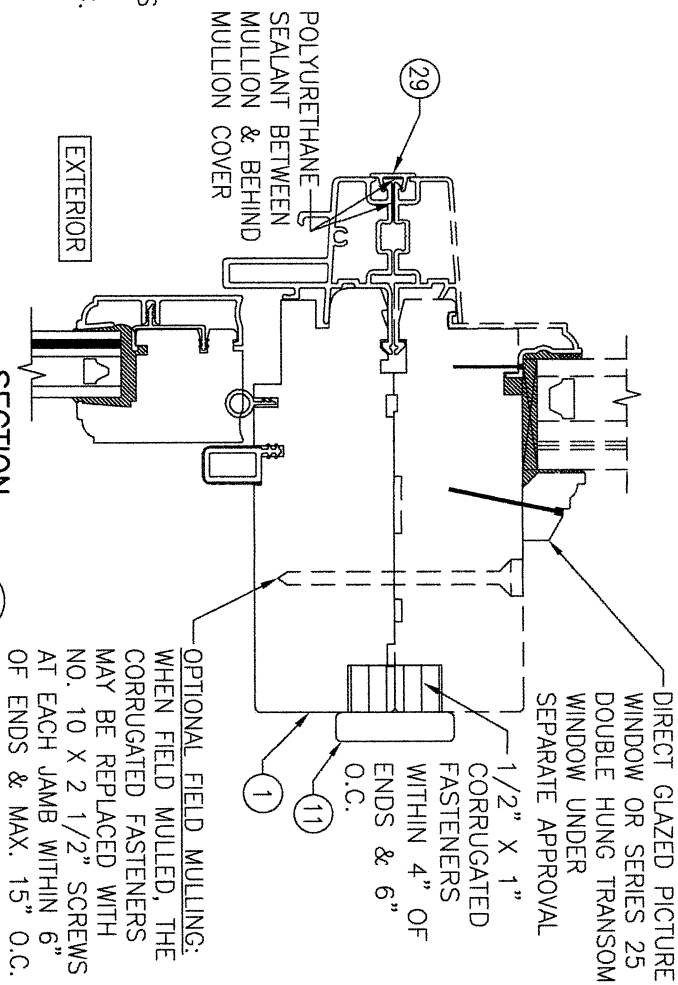
USED WITH MULLION REINFORCEMENT PART #12
USED WITH MULLION REINFORCEMENT PART #13

SECTION

SCALE: 1/2 FULL

E3

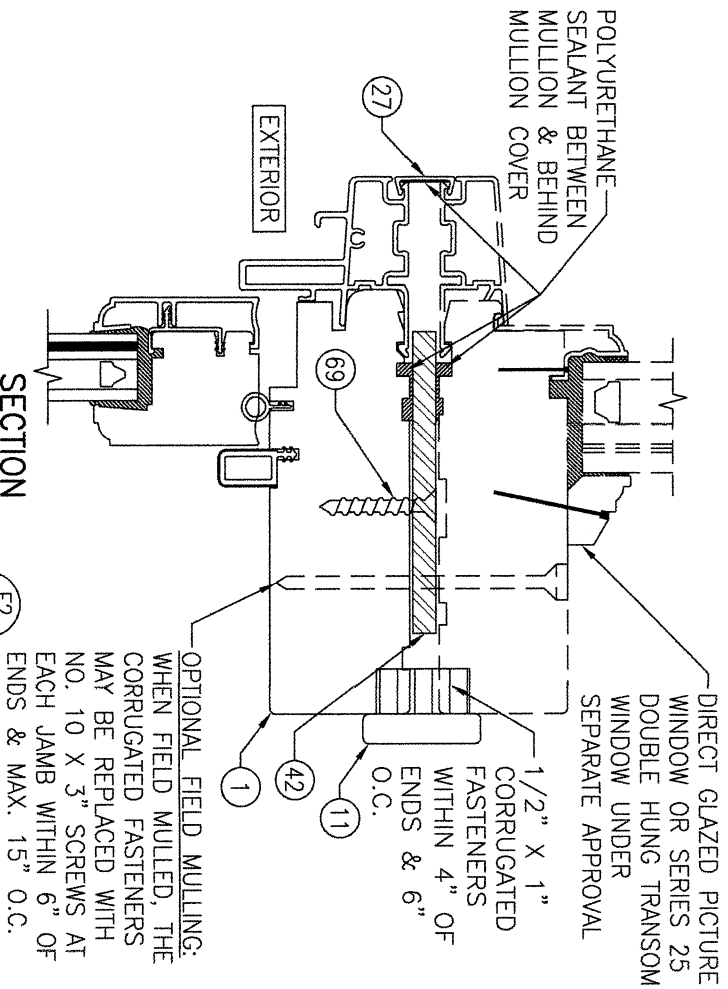
(D.H. TO FIXED WITH WOOD REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SCALE: 1/2 FULL

F1

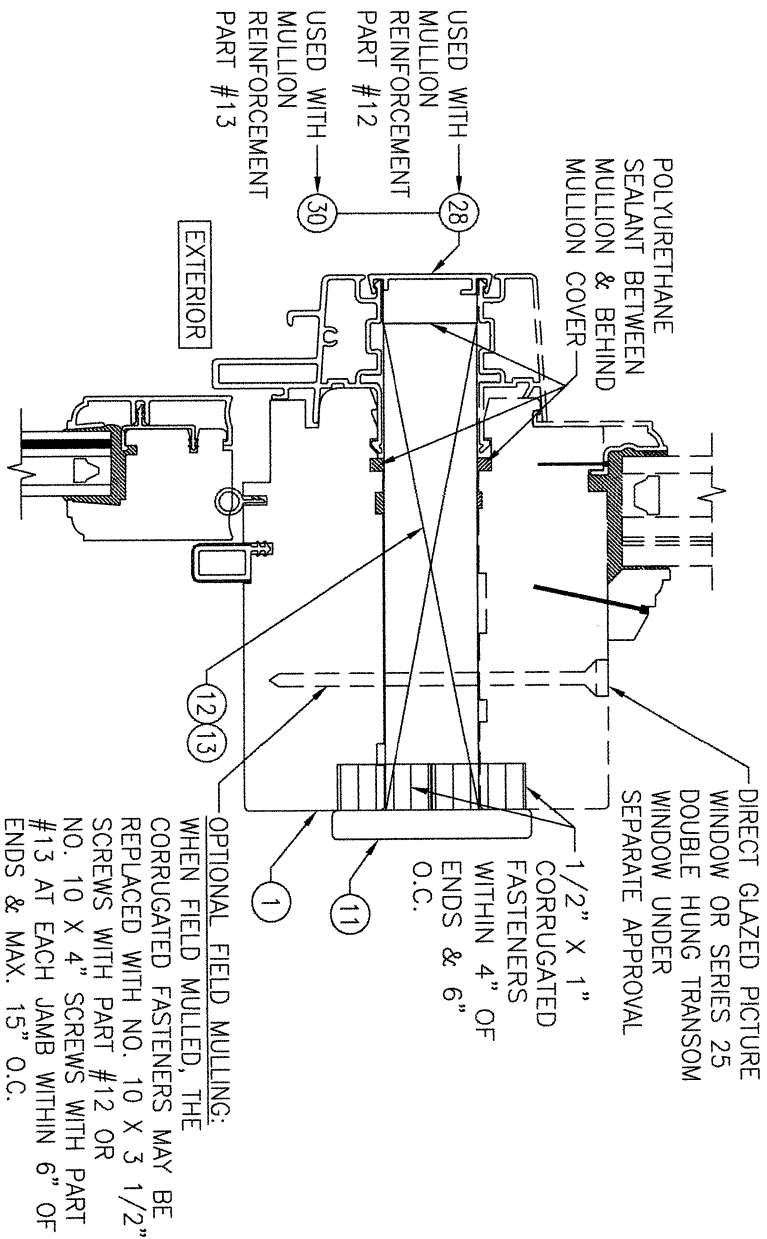
(SINGLE WINDOW WITH NON-REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SCALE: 1/2 FULL

F2

(SINGLE WINDOW WITH OPTIONAL BAR REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SCALE: 1/2 FULL

F3

(SINGLE WINDOW WITH OPTIONAL WOOD REINFORCED MULLION)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO.	REVISION	DESCRIPTION	BY	DATE
1-2				

DRAWN BY:	CHECKED BY:
W.R.M.	W.W.S.
DATE:	DATE:
03/10/11	

DRAWING TITLE

SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW

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

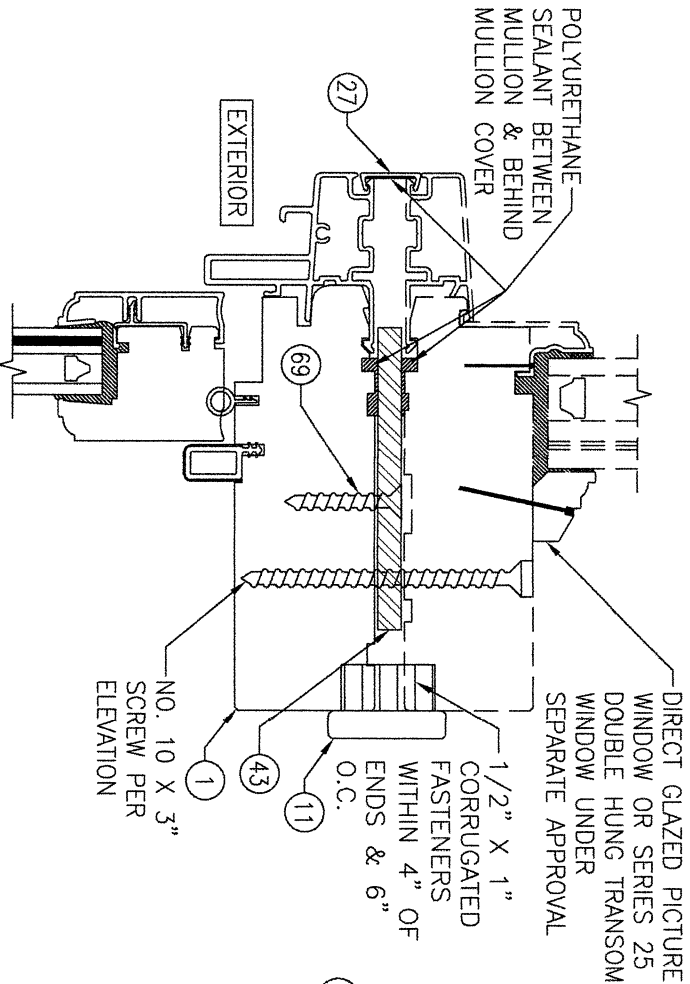
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

MANUFACTURER
C.P. LOEWEN ENTERPRISES
77 HWY 52 WEST
STEINBACH, MB, CANADA R5G 1B2
204-326-6446

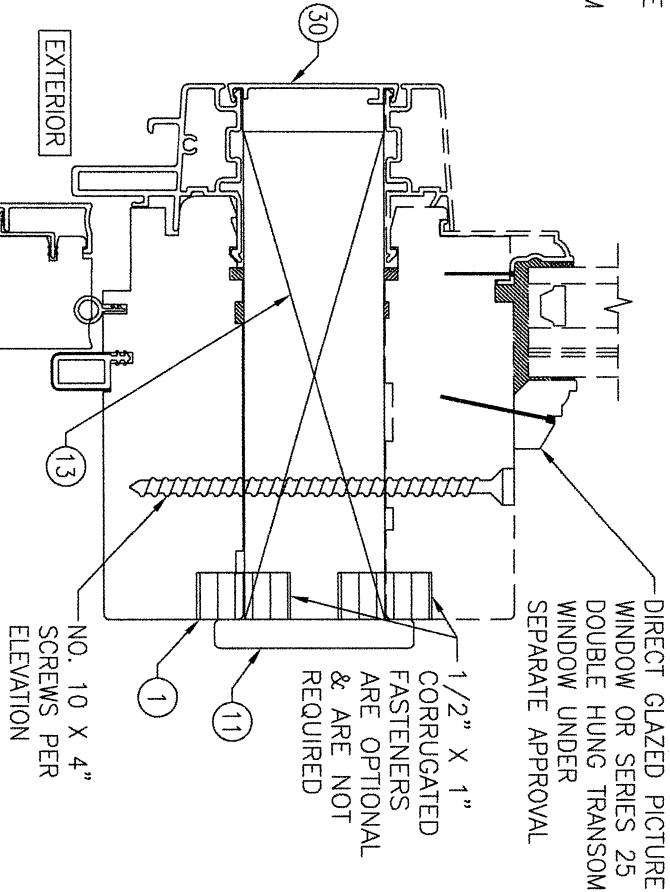
CERTIFICATION

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

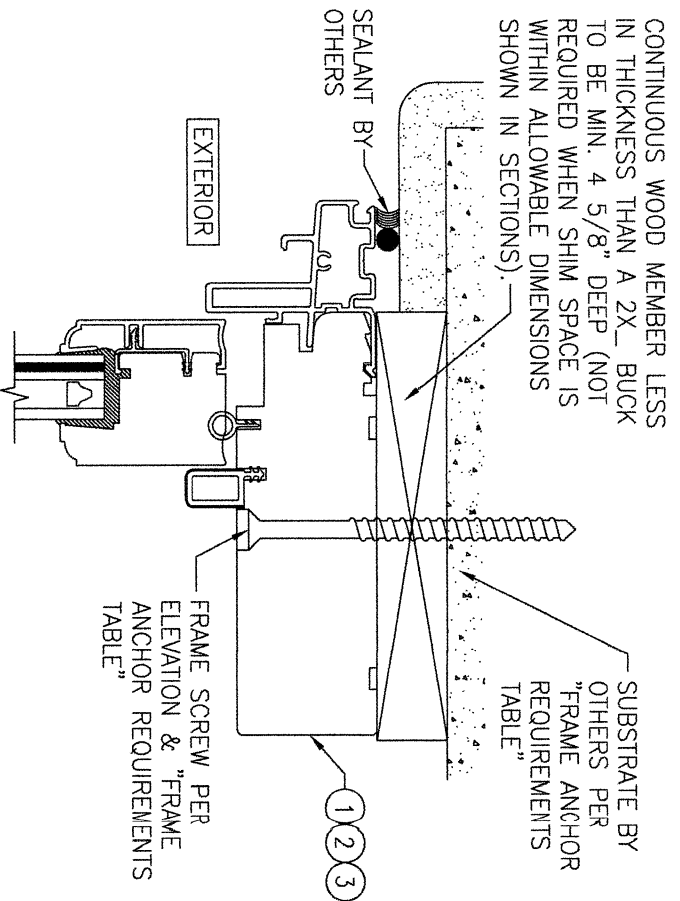
DRAWING NO. 1740
REV. F
SHEET NO. 8 OF 10



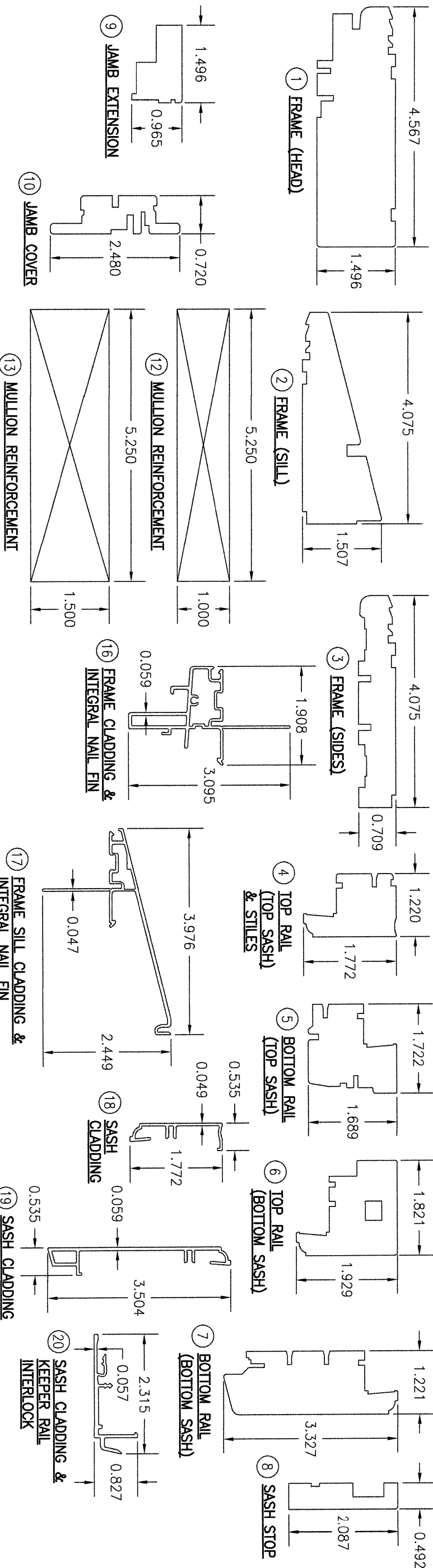
SECTION G1
 SCALE: 1/2 FULL
 (DOUBLE WINDOW WITH BAR REINFORCED MULLION)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION G2
 SCALE: 1/2 FULL
 (DOUBLE WINDOW WITH WOOD REINFORCED MULLION)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
 (HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

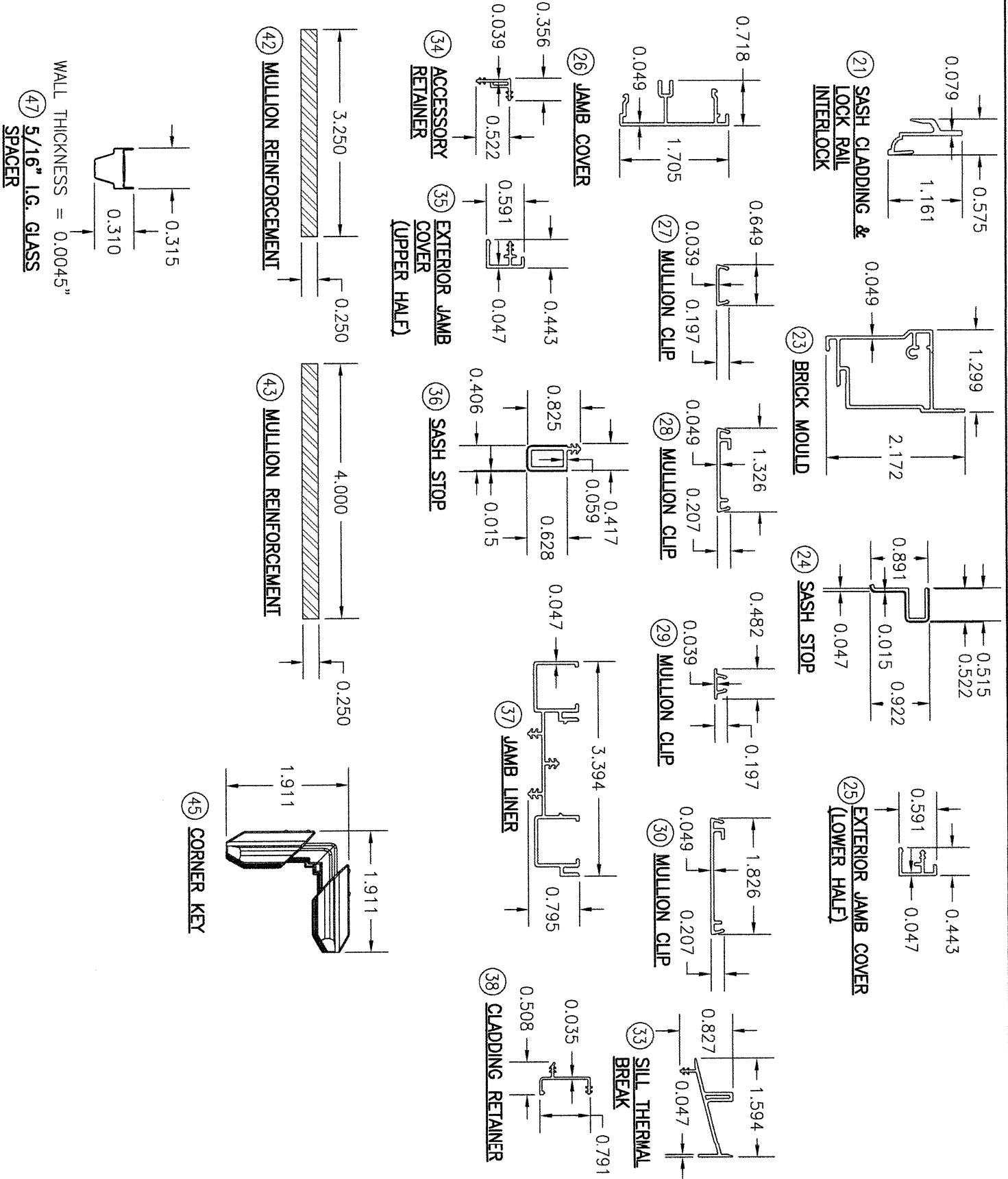


NO.	REVISION	DESCRIPTION	BY	DATE
1	2			

DRAWING TITLE SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSER DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446	
DRAWING NO. 1740		SHEET NO. 9		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	FRAME (HEAD)	WOOD
2	FRAME (SILL)	WOOD
3	FRAME (SIDES)	WOOD
4	TOP RAIL (TOP SASH) & STILES	WOOD
5	BOTTOM RAIL (TOP SASH)	WOOD
6	TOP RAIL (BOTTOM SASH)	WOOD
7	BOTTOM RAIL (BOTTOM SASH)	WOOD
8	SASH STOP	WOOD
9	JAMB EXTENSION	WOOD
10	JAMB COVER	WOOD
11	MULLION INTERIOR COVER AS REQ'D	WOOD
12	MULLION REINFORCEMENT	WOOD
13	MULLION REINFORCEMENT	WOOD
16	FRAME CLADDING & INTEGRAL NAIL FIN	6063-T5 ALUMINUM
17	FRAME SILL CLADDING & INTEGRAL NAIL FIN	6063-T5 ALUMINUM
18	SASH CLADDING	6063-T5 ALUMINUM
19	SASH CLADDING (BOTTOM RAIL - BOTTOM SASH)	6063-T5 ALUMINUM
20	SASH CLADDING & KEEPER RAIL INTERLOCK	6063-T5 ALUMINUM
21	SASH CLADDING & LOCK RAIL INTERLOCK	6063-T5 ALUMINUM
23	BRICK MOULD	6063-T5 ALUMINUM
24	SASH STOP	6063-T5 ALUMINUM
25	EXTERIOR JAMB COVER (LOWER HALF)	6063-T5 ALUMINUM
26	JAMB COVER	6063-T5 ALUMINUM
27	MULLION CLIP	6063-T5 ALUMINUM
28	MULLION CLIP	6063-T5 ALUMINUM
29	MULLION CLIP	6063-T5 ALUMINUM
30	MULLION CLIP	6063-T5 ALUMINUM
33	SILL THERMAL BREAK	PVC
34	ACCESSORY RETAINER	PVC
35	EXTERIOR JAMB COVER (UPPER HALF)	PVC
36	SASH STOP	PVC & VENEER WRAPPED
37	JAMB LINER	PVC
38	CLADDING RETAINER	PVC
42	MULLION REINFORCEMENT	A-36 STEEL
43	MULLION REINFORCEMENT	A-36 STEEL
45	CORNER KEY (HEAD TO SIDE FRAME CLADDING)	NYLON CL 200
47	5/16" I.G. GLASS SPACER	201 STAINLESS STEEL
HARDWARE		
50	LOCK (2 REQ'D WHEN WINDOW FRAME WIDTH EXCEEDS 23"; 1 REQ'D WHEN WINDOW FRAME WITH IS 23" OR LESS)	TRUTH AS014030
51	KEEPER	TRUTH AS014042
52	SASH LIFT	AS REQ'D TO LIFT SASH
53	BALANCE	BSI "F" SERIES SUPERBOOST OR BLOCK & TACKLE
54	LOCK LATCH	AMESBURY 319437
SEALS & SEALANTS		
57	BULB WEATHERSTRIP	INTEK 50585
58	WEATHERSTRIP/INTERLOCK RETAINER	PVC (LOEWEN PART #25185)
59	WEATHERSTRIP	FOAM FILLED PVC (AMESBURY 12290)
FASTENERS		
63	NO. 8 X 1 1/4" SMS OR WOOD SCREW	2 PER LOCK & 2 PER KEEPER
64	NO. 6 X 1" PH SMS OR WOOD SCREW	WITHIN 1" FROM CORNERS & MAX. 8" O.C.
65	16 GA. X 1 1/4" FINISH NAIL	WITHIN 2 1/2" FROM CORNERS & MAX. 6" O.C.
66	16 GA. X 1 1/4" FINISH NAIL	WITHIN 4" FROM CORNERS & MAX. 12" O.C.
67	NO. 8 X 1 1/4" SMS OR WOOD SCREW	WITHIN 2" FROM BOTTOM END & MAX. 12" O.C.
68	NO. 8 X 3/4" SMS OR WOOD SCREW	WITHIN 6" FROM ENDS & MAX. 15" O.C.
69	NO. 8 X 1 1/4" SMS OR WOOD SCREW	AS REQ'D TO SET BAR IN PLACE

NOTE: WOOD USED IN TESTING WAS DOUGLAS FIR WITH A SPECIFIC GRAVITY OF G = 0.49 AND A MODULUS OF ELASTICITY OF E = 1,600,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.49 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY C.P. LOEWEN ENTERPRISES TO SELECT.



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLT:	1=2	DATE:	05/10/11
NO.		REVISION	DESCRIPTION
BY		DATE	
10		OF	10

DRAWING TITLE		CONSULTANTS		MANUFACTURER	
SERIES 25 ALUMINUM CLAD IMPACT DOUBLE HUNG WINDOW		W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		C.P. LOEWEN ENTERPRISES	
25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446			

CERTIFICATION		DRAWING NO. 1740		REV. F	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135					