

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ) & IS LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
9. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
10. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

CORNER CONSTRUCTION

FRAME CORNERS: THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS & SECURED WITH THREE(3) 14 GAGE 7/16" X 2 1/2" STAPLES. CLADDING IS MITERED TOGETHER, JOINED WITH A PLASTIC CORNER KEY PART NO. 77U00000 & SEALED WITH BUTYL DEVAN 578.12 OR BOSTIK 900 POLYURETHANE SEALANT. EACH CLADDING MEMBER IS SECURED TO THE KEY WITH 1 NO. 10 X 17/32" FH SCREW (2 TOTAL PER CORNER)

SASH CORNERS:

OPTION 1: MORTISE & TENON CONSTRUCTION. A 1/8" BEAD OF BOSTIK CHEM-CALK URETHANE IS PLACED AT THE TENNON BOTTOM SURFACE. WOOD GLUE IS PLACED AT THE TENNON SIDES. THE JOINT IS THEN ASSEMBLED & SECURED WITH ONE 15 GA. X 1 1/2" FINISH NAIL.

OPTION 2: SCREWED CONSTRUCTION. MEMBER ENDS ARE PROFILED AND PARTIALLY TENONED, BUTTED & ADHERED TOGETHER WITH BOSTIC 70-05/70-05A AND THEN SECURED WITH NO. 12 X 4" FH WOOD SCREWS (1 SCREW WITH SASH HEIGHTS LESS THAN 3.5"; 2 SCREWS WITH SASH HEIGHTS 3.5" TO 5 3/8"). THE CLADDING IS TABBED WITH THE TABS MEETING IN A BED OF BOSTIC IN A GROOVE ON THE EXTERIOR SASH FACE RESULTING FROM THE PARTIALLY TENNONED RAIL END.

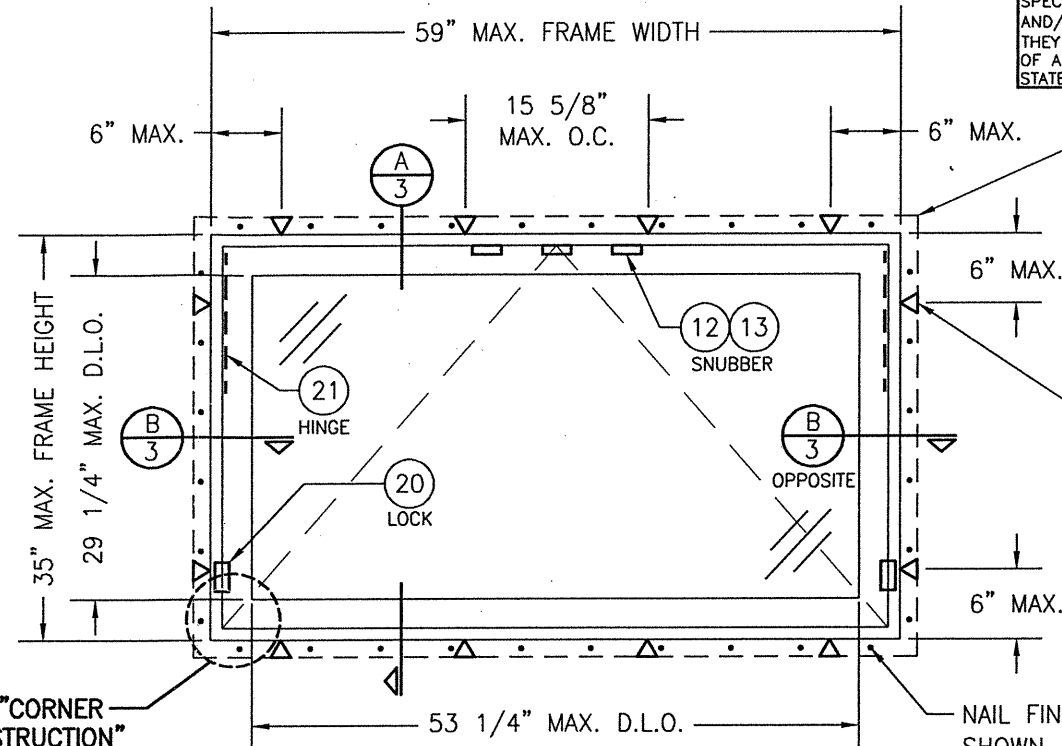
FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN 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 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	2" X 11 GA. ROOFING NAIL	1 7/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING 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.).
- (2) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.

SEE "CORNER
CONSTRUCTION"
DESCRIPTION ON
THIS SHEET

SASH CORNER OPTION 2
WINDOWS ARE LIMITED
TO MAXIMUM +/-60
PSF DESIGN PRESSURE
(SEE PRESSURE NOTE
ON THIS SHEET)



EXTERIOR ELEVATION:
SINGLE AWNING WINDOW
SCALE: 3/4" = 1'-0"

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.

NAILING FIN IS REQUIRED WITH CLIP MOUNT CONDITION BUT IS OPTIONAL & MAY BE REMOVED FOR A FRAME SHEAR SCREW MOUNT CONDITION. (NAIL FIN SHALL NOT ACT AS A SUBSTITUTE FOR THE FRAME SCREWS SPECIFIED)

FRAME SCREW OR INSTALLATION CLIP WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR SCREW REQUIREMENTS.

NAIL FIN FASTENERS WHERE SHOWN, WITHIN 5" OF CORNERS & MAX. 7" O.C. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR FASTENER REQUIREMENTS.

ALLOWABLE WINDOW SIZE VS. PRESSURE TABLE
(SINGLE WINDOWS)

GLASS OPTION	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
			POSITIVE	NEGATIVE
B	35	59	75	75
	35	59	75	75
A	35	53	75	85

SEE GLAZING DETAILS ON SHEET 3 FOR GLASS OPTIONS.

ALLOWABLE PRESSURE NOTE:

PRESSURES LISTED IN TABLE CONSIDER WINDOWS WITH SASH CORNER CONSTRUCTION OPTION 1. WHEN SASH CORNER CONSTRUCTION OPTION 2 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED +/-60 PSF REGARDLESS OF PRESSURES SHOWN IN TABLE.

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.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 03/23/07	
NO.	REVISION	DESCRIPTION	DATE
B1	BY	WRM	10/21/11
C1	BY	WRM	06/27/13
D1	BY	WWS	08/05/14
E1	BY	WWS	02/13/17
F1	BY	WWS	08/02/20
G1	BY	WWS	06/07/21

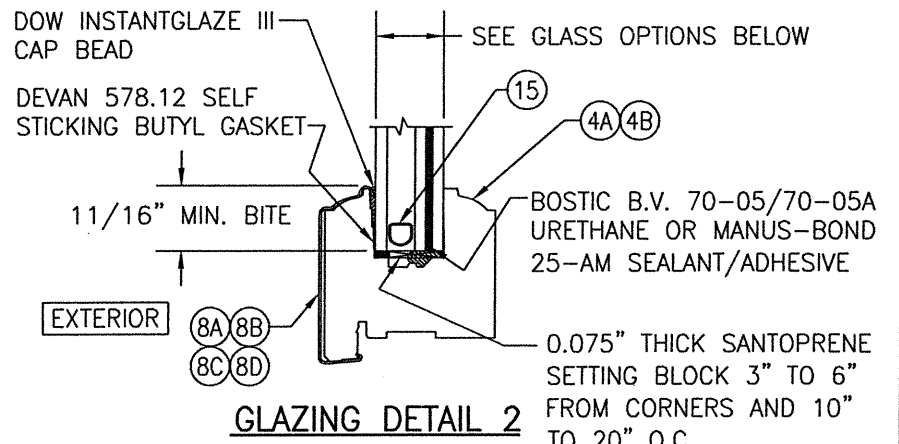
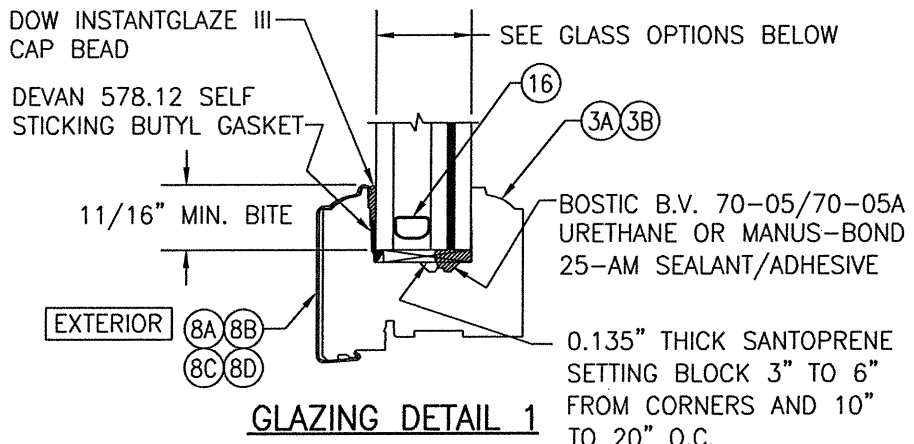
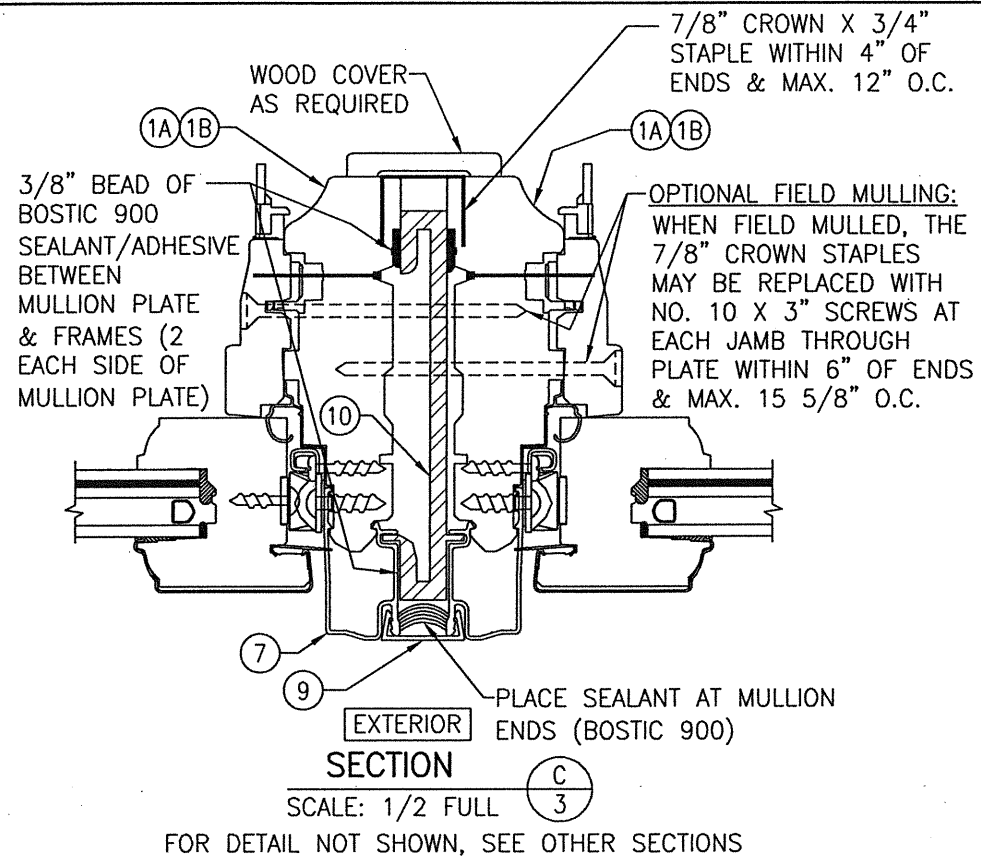
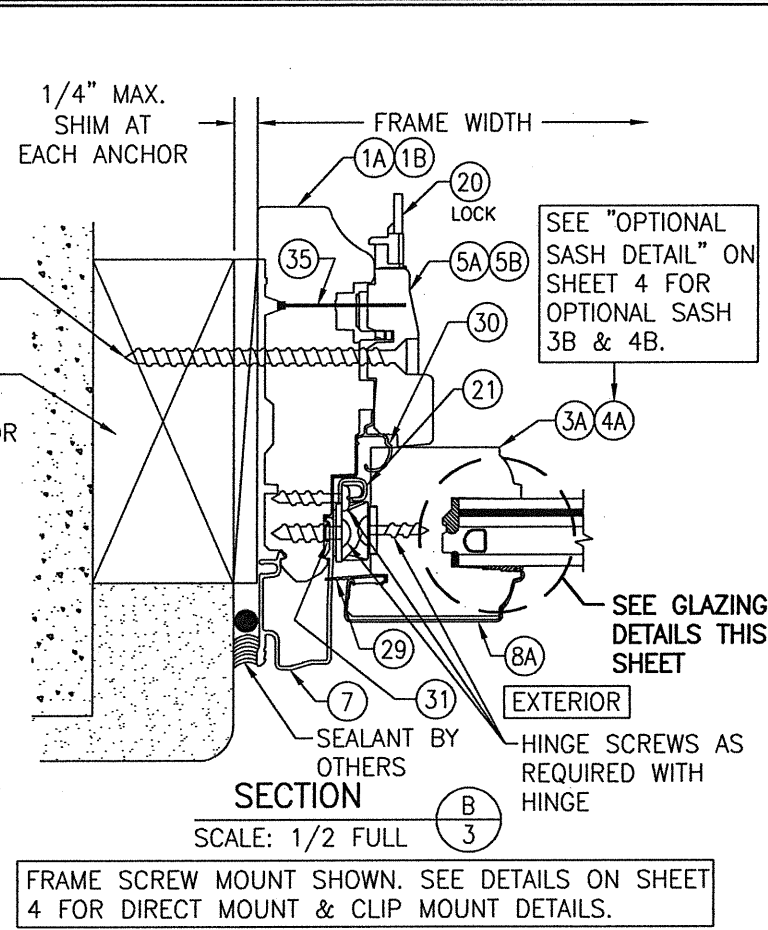
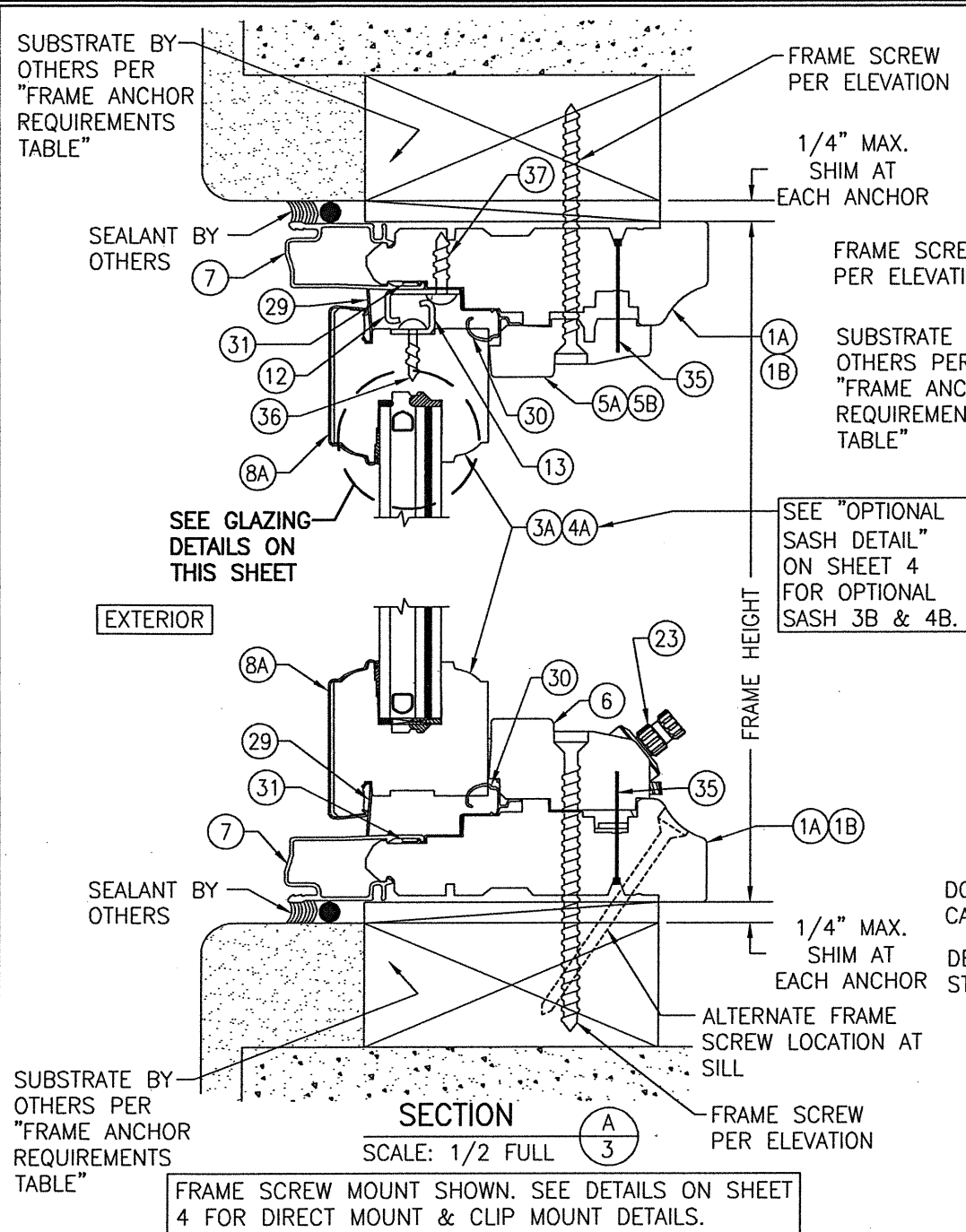
DRAWING TITLE: **HIG ALUMINUM CLAD IMPACT AWNING WINDOW**

MANUFACTURER: **PELLA CORPORATION**
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS: **W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

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

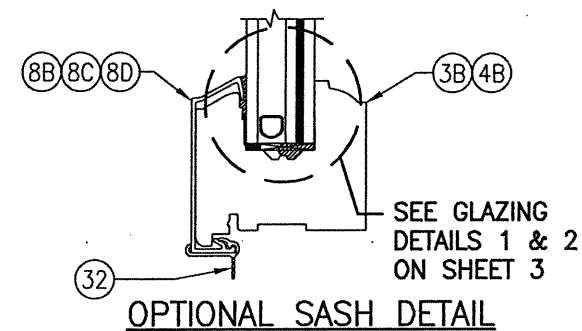
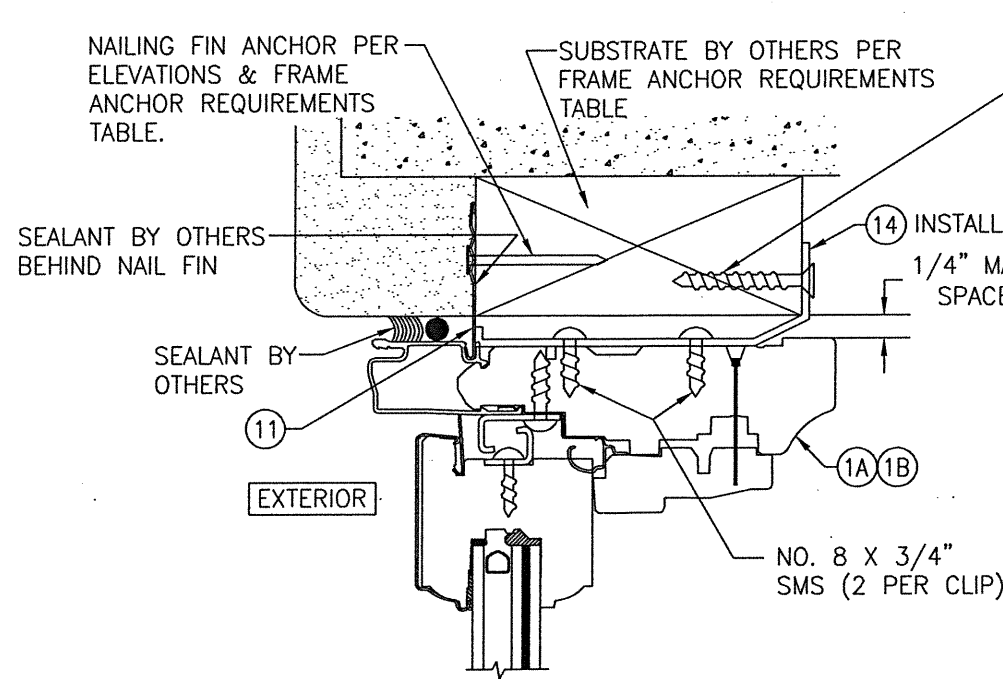
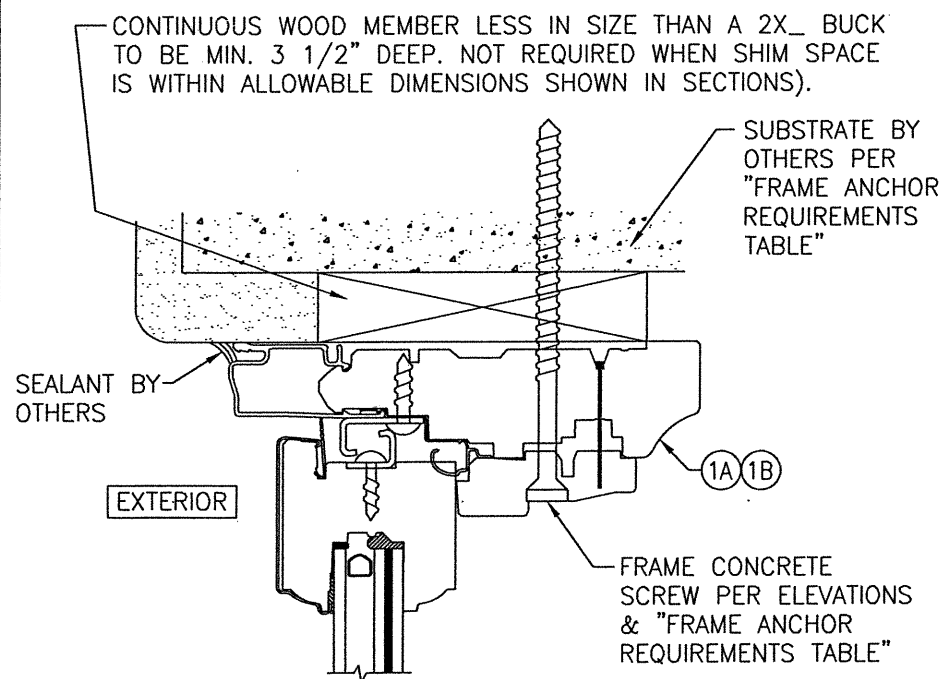
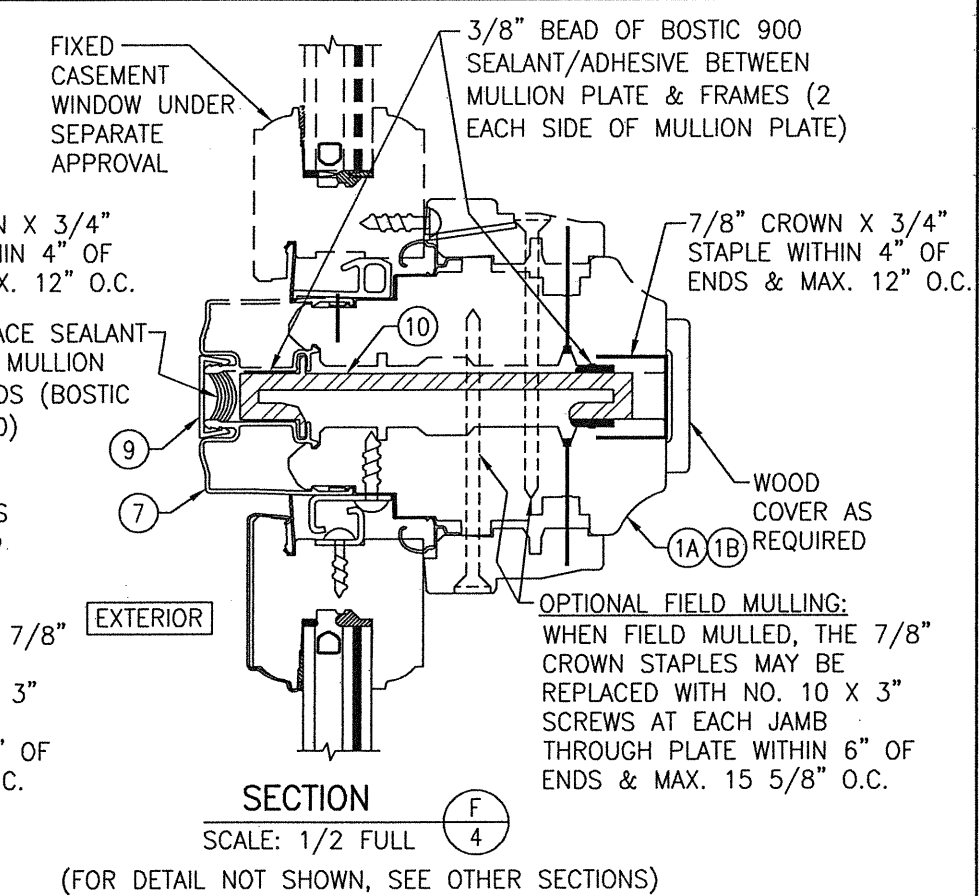
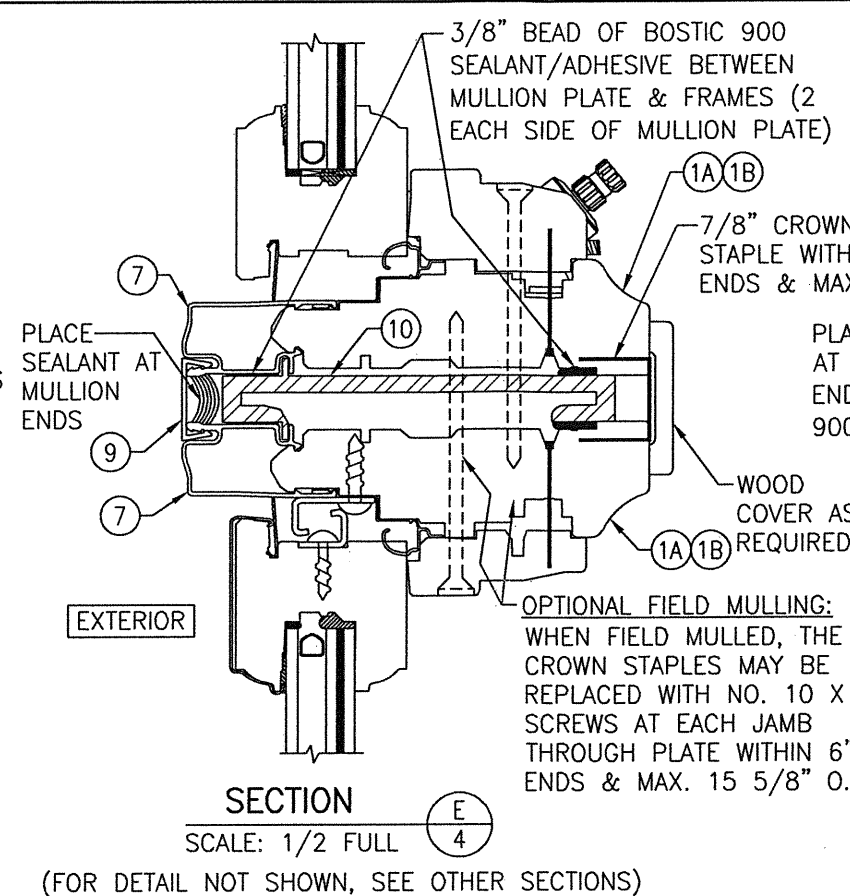
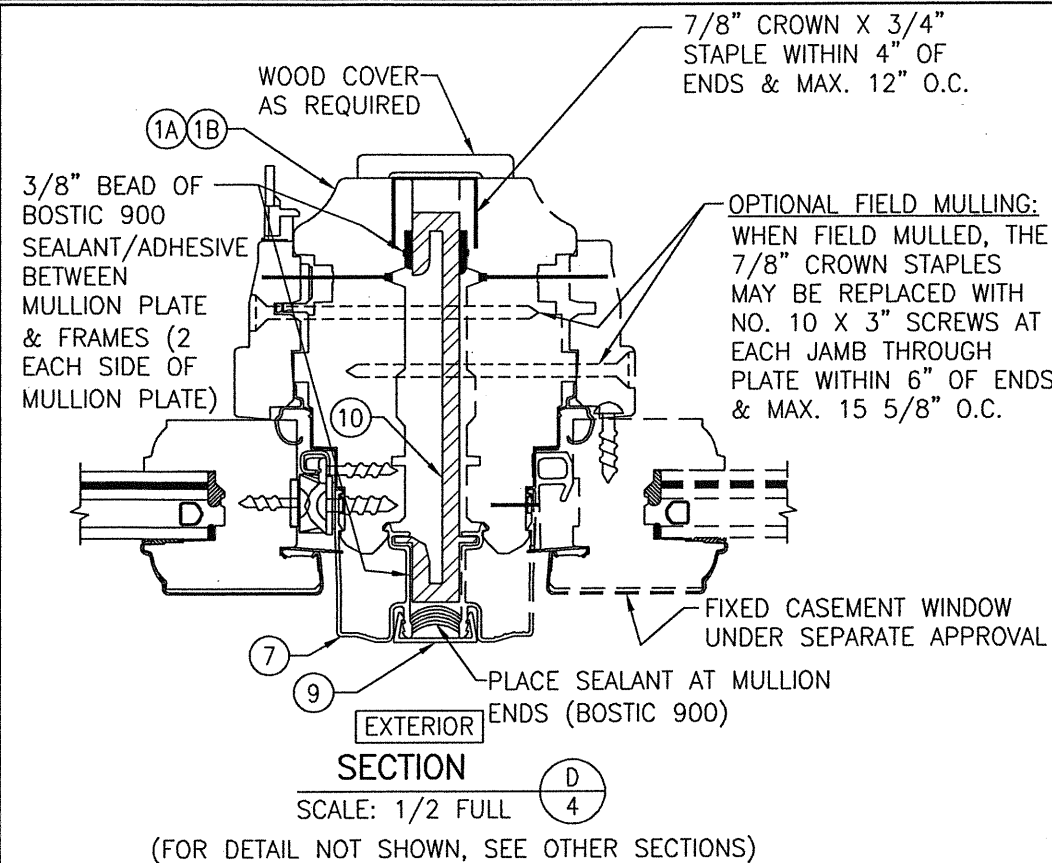
DRAWING NO. **1520** REV. **G**
SHEET NO. **1** OF **5**



GLASS OPTIONS:
OPTION A: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 KURARAY SG/5/32" AN. INTERIOR)
1" I.G. GLASS NOTE:
 THE EXTERIOR 3/16" ANNEALED PANE OF GLASS MUST BE SUBSTITUTED WITH 3/16" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS OR WHEN WINDOW IS LOCATED IN A SMALL MISSILE ZONE OF A BUILDING (30 FT. OR MORE ABOVE GRADE)

GLASS OPTIONS:
OPTION B: 11/16" THICK LAMINATED I.G. GLASS (1/8" AN. EXTERIOR; 1/4" SPACER; 7/64" AN./0.09 KURARAY BUTACITE PVB/7/64" AN. INTERIOR)
11/16" I.G. GLASS NOTE:
 THE EXTERIOR 1/8" ANNEALED PANE OF GLASS MUST BE SUBSTITUTED WITH 1/8" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS OR WHEN WINDOW IS LOCATED IN A SMALL MISSILE ZONE OF A BUILDING (30 FT. OR MORE ABOVE GRADE)

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 03/23/07	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE HIGH ALUMINUM CLAD IMPACT AWNING WINDOW CONSULTANTS W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 MANUFACTURER PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000			
CERTIFICATION I, W. SCHAEFER, P.E., NO. 14115, STATE OF FLORIDA, AM A PROFESSIONAL ENGINEER.			
DRAWING NO. 1520		REV. G	
SHEET NO. 3		OF 5	



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

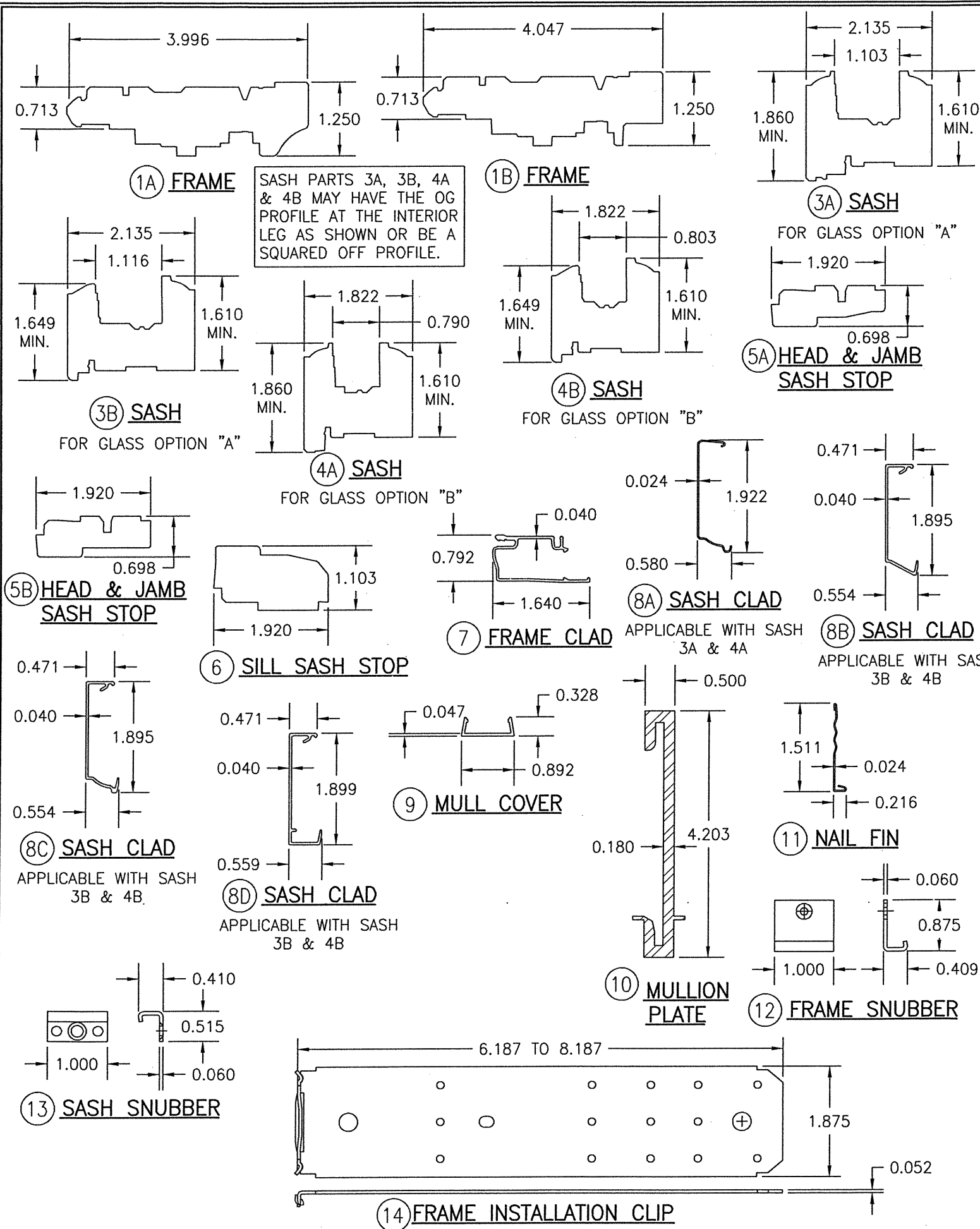
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

OPTIONAL INSTALLATION CLIP/NAIL FIN DETAIL

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

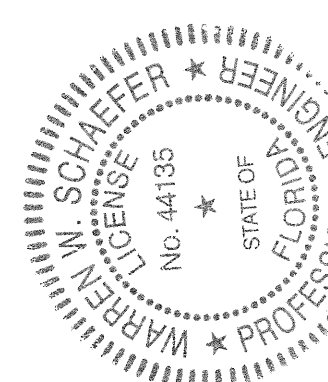


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 03/23/07	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE HIG ALUMINUM CLAD IMPACT AWNING WINDOW			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000	
DRAWING NO. 1520		REV. G	
SHEET NO. 4		OF 5	



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1A	FRAME JAMB (WITH OG PROFILE SASH)	WOOD
1B	FRAME JAMB (WITH SQUARE PROFILE SASH)	WOOD
3A	SASH FOR GLASS OPTION A	WOOD
3B	SASH FOR GLASS OPTION A	WOOD
4A	SASH FOR GLASS OPTION B	WOOD
4B	SASH FOR GLASS OPTION B	WOOD
5A	SASH STOP (WITH OG PROFILE SASH)	
5B	SASH STOP (WITH SQUARE PROFILE SASH)	WOOD
6	SASH STOP (VENT SILL)	WOOD
7	FRAME CLAD	6063-T6 ALUMINUM
8A	CLAD FOR SASH 3A & 4A	3003-H14 ALUMINUM
8B	PUTTY GLAZE CLAD FOR SASH 3B & 4B	3003-H14 ALUMINUM
8C	OGEE CLAD FOR SASH 3A & 4A	3003-H14 ALUMINUM
8D	SQUARE CLAD FOR SASH 3B & 4B	3003-H14 ALUMINUM
9	MULLION COVER	6063-T6 ALUMINUM
10	MULLION PLATE	6063-T6 ALUMINUM
11	NAIL FIN	3003-H14 ALUMINUM
12	FRAME SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
13	SASH SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
14	INSTALLATION CLIP	50 KSI GALVANIZED STEEL
15	1/4" I.G. GLASS SPACER	STAINLESS STEEL
16	3/8" I.G. GLASS SPACER	STAINLESS STEEL
HARDWARE		
20	LOCK (2 PER WINDOW)	PELLA #16DR
21	CENTER PIVOT HINGE (USED WITH ROTO OPERATOR)	OVERLAND 1AJC/1AJA
22	SCISSOR HINGE (USED WITH EGRESS OPERATOR)	PELLA 15EA/15E9 (16 GAGE 302/304 S.S.)
23	ROTO OPERATOR	PELLA #2AAX/2AAY
24	EGRESS OPERATOR	PELLA #2ABA
SEALS & SEALANTS		
29	RAINSTRIIP	PELLA PART #75T2 - PVC DUROMETER 75
30	WEATHERSTRIP	PELLA PART #505J - PP/SANTOPRENE 64
31	FRAME CLAD SEALANT	BUTYL
32	SASH WEATHER STRIP FOR SASH 3B & 4B	PELLA PART #505J - PP/SANTOPRENE 84
MISCELLANEOUS FASTENERS		
35	1 3/8" 4D ANNULAR RINGSHANK BOX NAIL	WITHIN 5" OF CORNERS & 4" TO 9" O.C.
36	NO. 8 X 3/4" FH SCREW	1 PER SNUBBER
37	NO. 7 X 3/4" PH SCREW	1 PER SNUBBER

NOTE: WOOD USED IN TESTING WAS WESTERN PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORPORATION TO SELECT.



DRAWN BY: W.R.M.
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PLOT: 1=2
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REVISION DESCRIPTION:
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CERTIFICATION: **DEC 07 2021**
WARREN W. SCHAEFER, P.E.
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DRAWING NO. **1520**
SHEET NO. **5** OF **5**