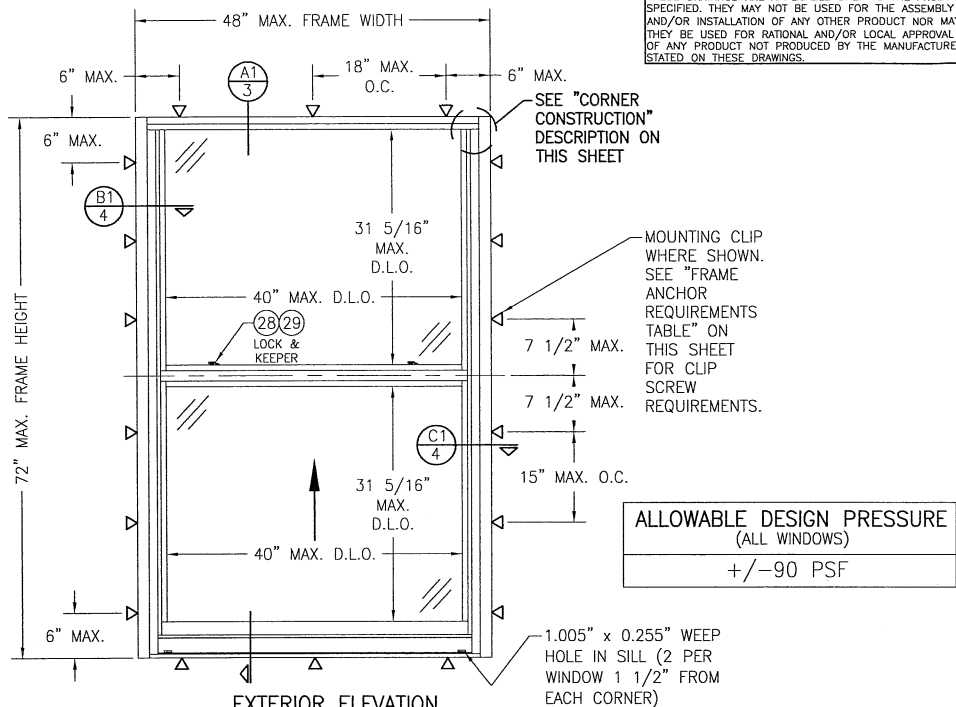


THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.



EXTERIOR ELEVATION
SINGLE HUNG WINDOW ANCHORED WITH MOUNTING CLIPS
(NO RECEPTOR)
SCALE: 3/4"=1'-0"

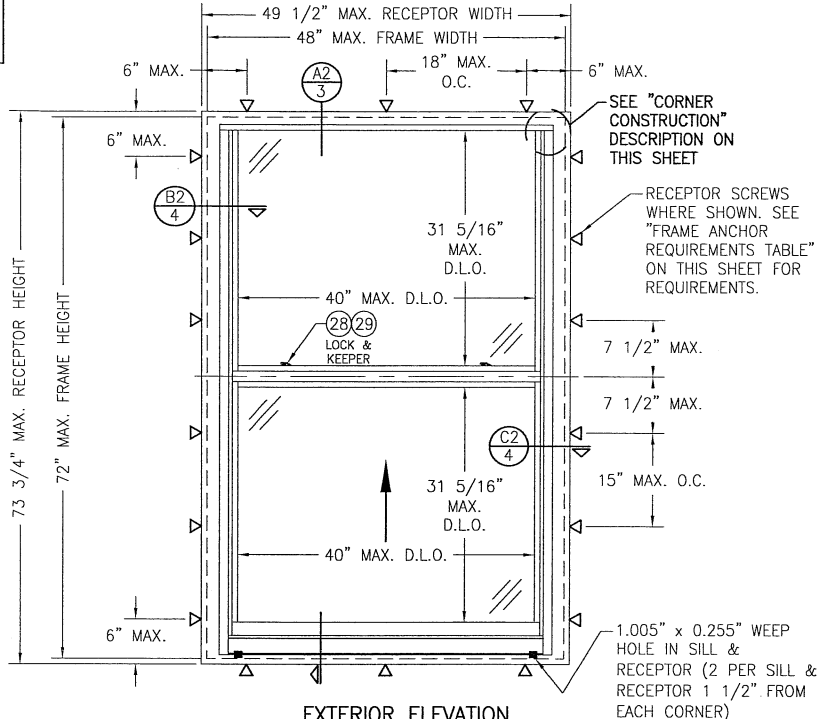
1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE 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 BOTH SMALL & LARGE MISSILE IMPACT RATED.
5. WHEN GLAZED FOR SMALL MISSILE IMPACT, THIS PRODUCT MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE OR AT ANY CODE DESIGNATED LARGE MISSILE IMPACT LOCATION WITHOUT AN APPROVED SHUTTER.
6. WHEN LARGE MISSILE IMPACT GLAZED, IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. 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.
8. 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.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
10. 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.
11. 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.

CORNER CONSTRUCTION

JAMB CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

SASH CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

ALLOWABLE DESIGN PRESSURE
(ALL WINDOWS)
+/-90 PSF



EXTERIOR ELEVATION
SINGLE HUNG WINDOW ANCHORED WITH RECEPTOR
SCALE: 3/4"=1'-0"

LOCK REQUIREMENTS

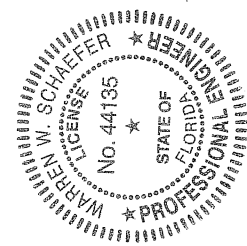
MAX. FRAME WIDTH	NO. OF LOCKS REQUIRED
48"	2
24"	1

FRAME ANCHOR REQUIREMENTS TABLE

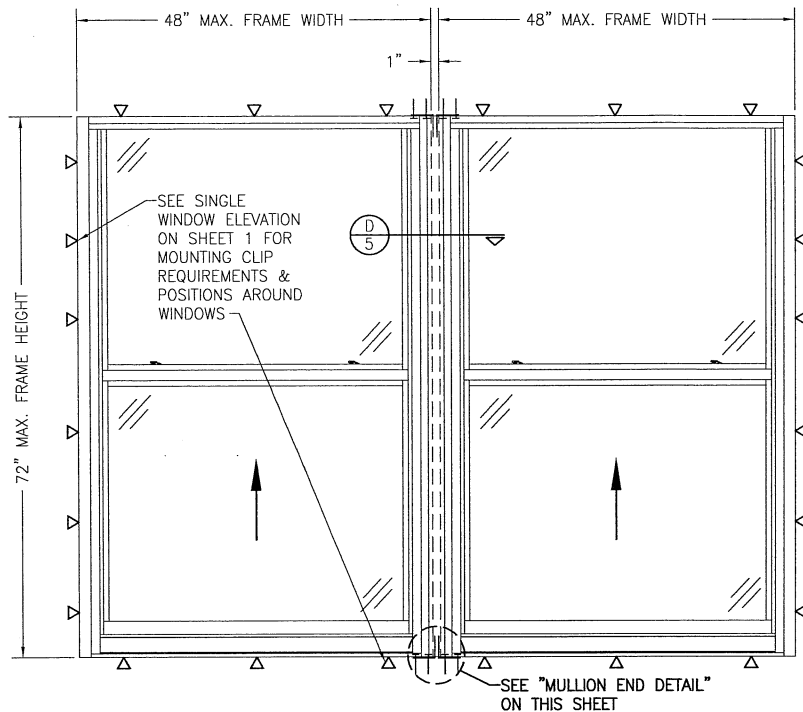
RECEPTOR & MOUNTING CLIP SCREWS

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	1"
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.10" THK 6063-T5 ALUM.	NO. 12 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.).

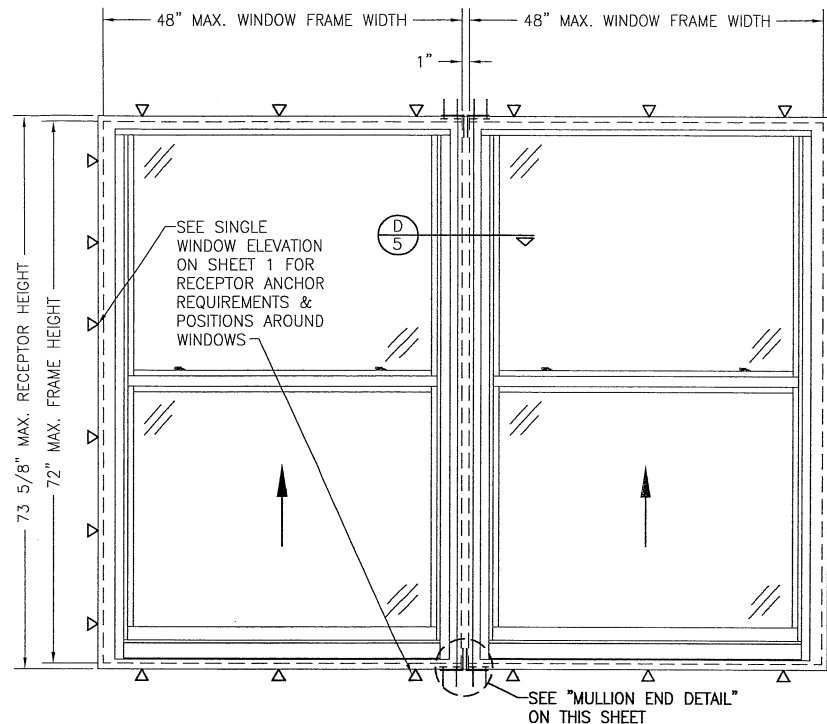


DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/21/15	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 8430TL SINGLE HUNG WINDOW (SMALL & LARGE MISSILE IMPACT)			
CONSULTANTS:		MANUFACTURER:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION		JUN 02 2015	
DRAWING NO. 1897		REV.	
SHEET NO. 1		OF 6	



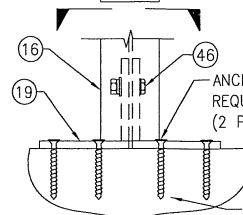
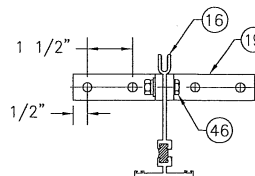
EXTERIOR ELEVATION
MULTIPLE WINDOWS ANCHORED WITH MOUNTING CLIPS
(NO RECEPTOR)

SCALE: 3/4"=1'-0"
 FOR WINDOW INFORMATION NOT SHOWN, SEE SINGLE WINDOW ELEVATION ON SHEET 1.



EXTERIOR ELEVATION
MULTIPLE WINDOWS ANCHORED WITH RECEPTOR

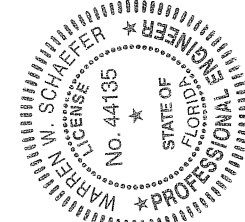
SCALE: 3/4"=1'-0"
 FOR WINDOW INFORMATION NOT SHOWN, SEE SINGLE WINDOW ELEVATION ON SHEET 1.



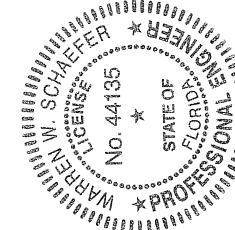
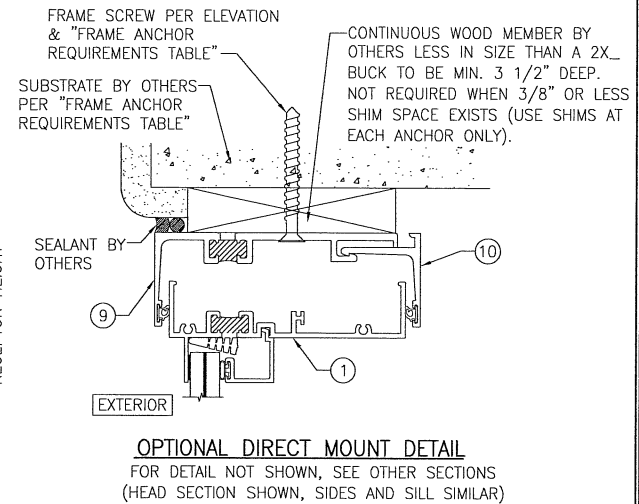
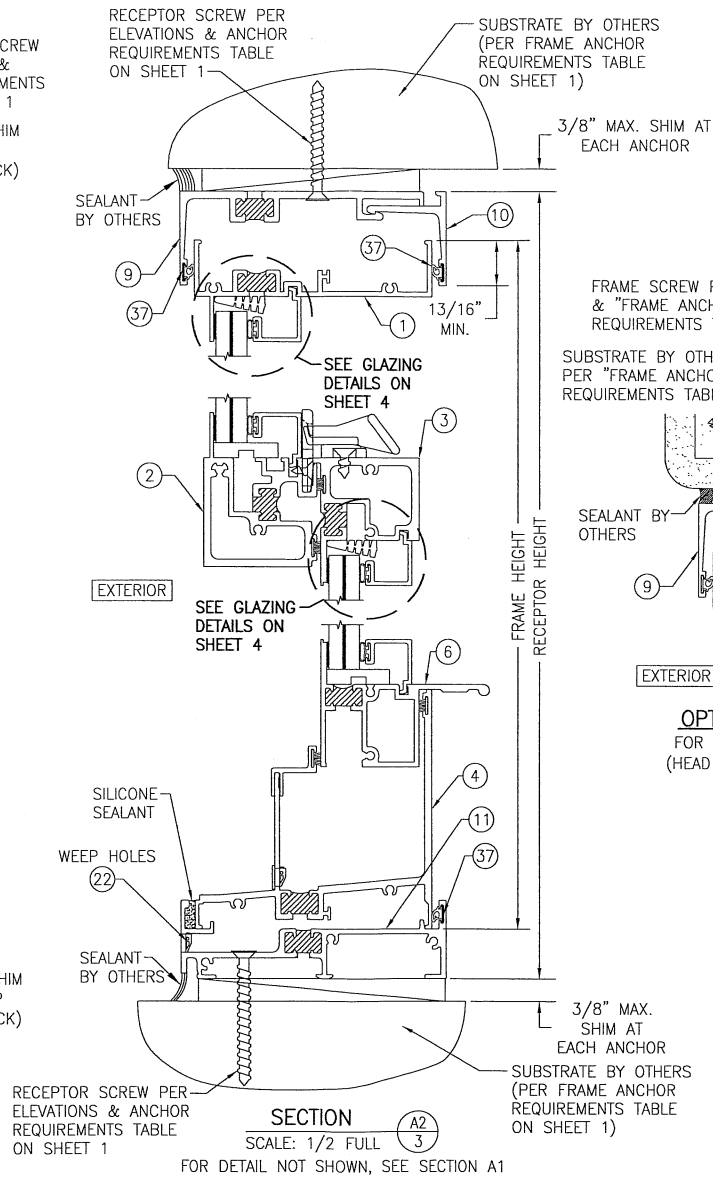
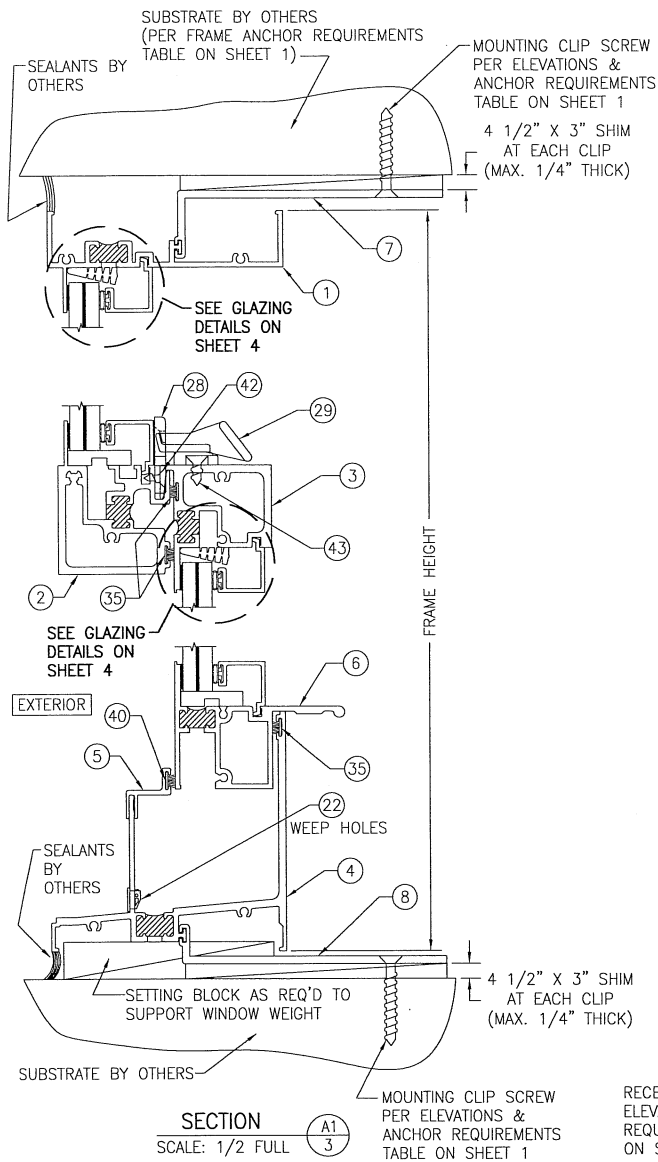
MULLION END DETAIL
 (WINDOW FRAMES NOT SHOWN FOR CLARITY)
 SCALE: N.T.S.

MULTIPLE UNIT NOTES:

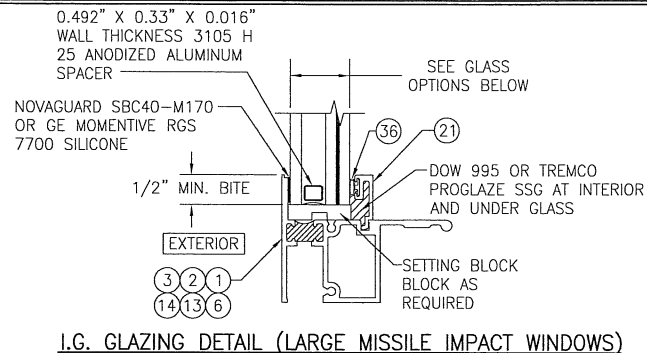
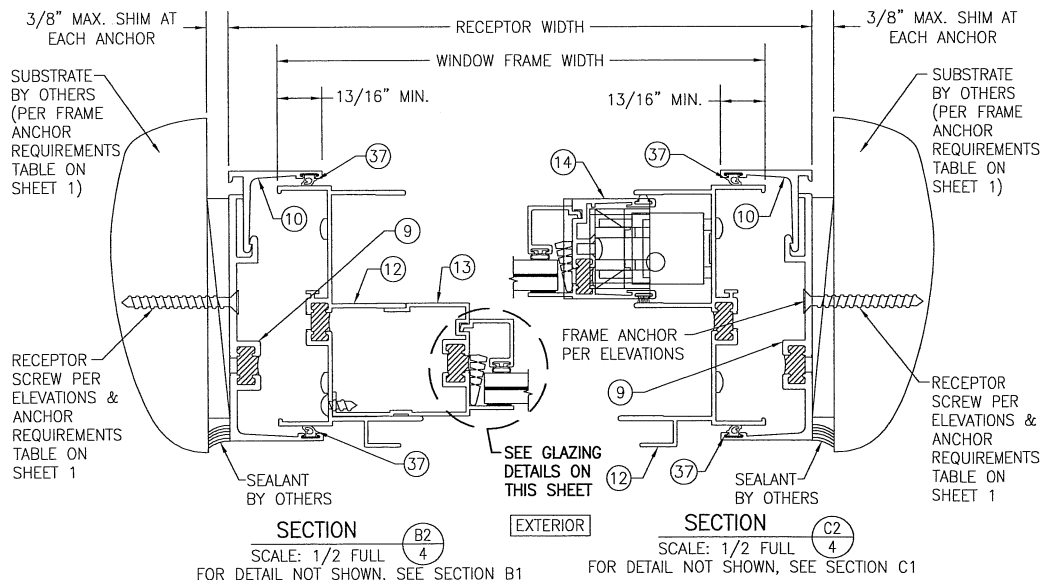
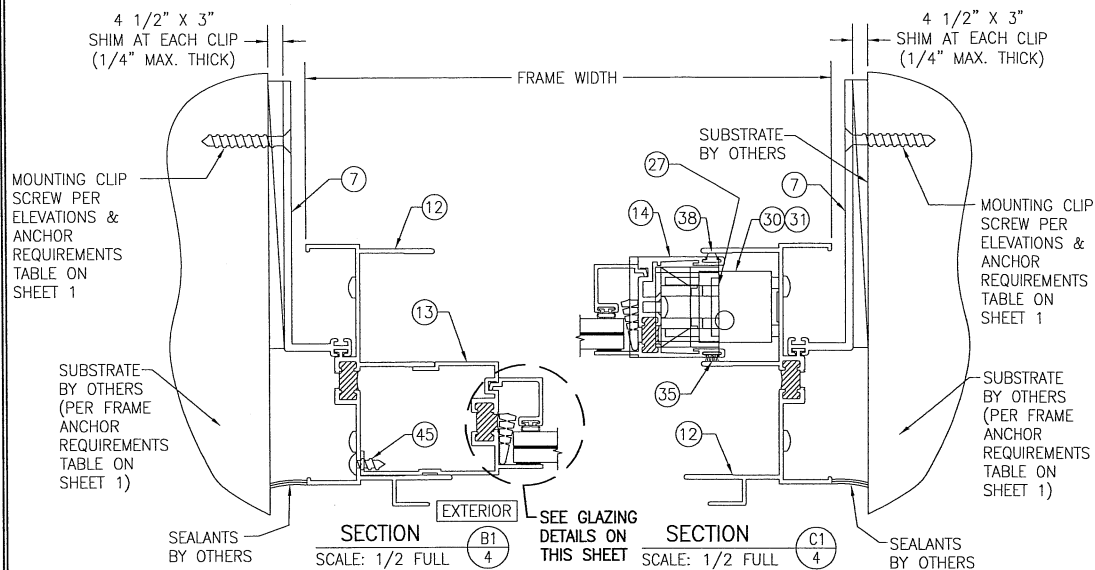
1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED HORIZONTALLY INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/21/15	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE: 8430TL SINGLE HUNG WINDOW (SMALL & LARGE MISSILE IMPACT)			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC.	
7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION		JUN 02 2015	
WARREN W. SCHAEFER, P.E.		No. 44135	
DRAWING NO. 1897		REV.	
SHEET NO. 2		OF 6	

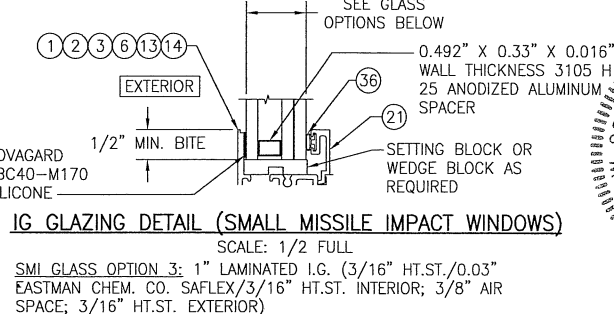
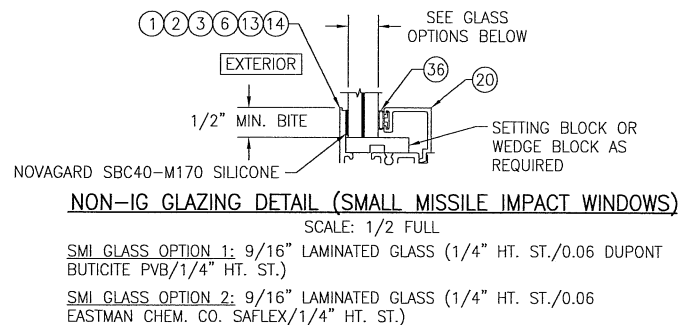


DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 04/21/15
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: 8430TL SINGLE HUNG WINDOW (SMALL & LARGE MISSILE IMPACT)	
MANUFACTURER:	KAWNEER COMPANY, INC.
CONSULTANTS:	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
	7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.
1897	
SHEET NO.	3 OF 6

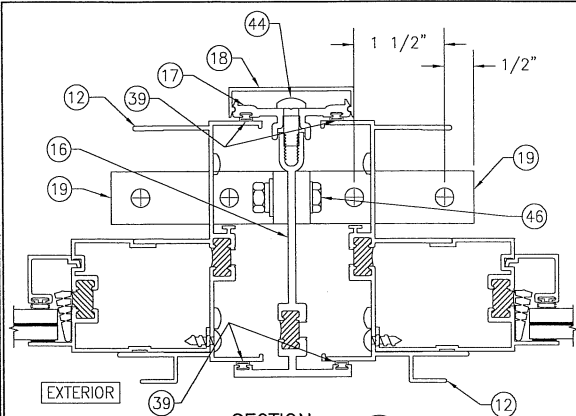


I.G. GLAZING DETAIL (LARGE MISSILE IMPACT WINDOWS)
SCALE: 1/2 FULL

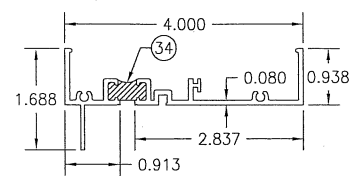
LMI GLASS OPTION 1: 1" LAMINATED I.G. (3/16" HT.ST./0.075" EASTMAN CHEM. CO. SAFLEX CP/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" HT.ST. EXTERIOR)
LMI GLASS OPTION 2: 1" LAMINATED I.G. (3/16" HT.ST./0.100" EASTMAN CHEM. CO. SAFLEX HP/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" HT.ST. EXTERIOR)
LMI GLASS OPTION 3: 1" LAMINATED I.G. (3/16" HT.ST./0.090" DUPONT SG/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" HT.ST. EXTERIOR)
LMI GLASS OPTION 4: 1" LAMINATED I.G. (3/16" HT.ST./0.090" EASTMAN CHEM. CO. SAFLEX/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" HT.ST. EXTERIOR)
LMI GLASS OPTION 5: 1" LAMINATED I.G. (3/16" HT.ST./0.090" DUPONT BUTICITE PVB/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" HT.ST. EXTERIOR)



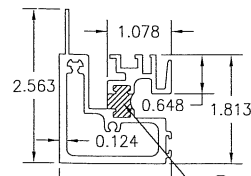
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/21/15	
DATE			
BY			
REVISION DESCRIPTION			
NO.			
DRAWING TITLE: 8430TTL SINGLE HUNG WINDOW (SMALL & LARGE MISSILE IMPACT)			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH		555 GUTHRIE COURT	
PALM BEACH GARDENS, FL 33418		NORCROSS, GA 30092	
PHONE: 561-744-3424		770-449-5555	
DRAWING NO. 1897			
SHEET NO. 4 OF 6			



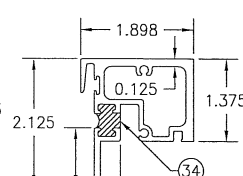
SECTION 03
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS



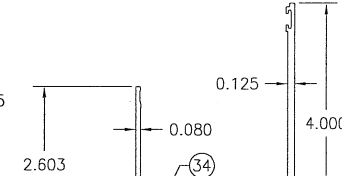
1 FRAME HEAD



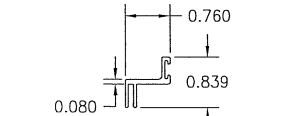
2 KEEPER RAIL



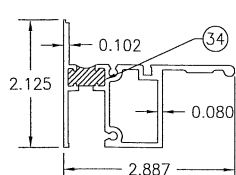
3 LOCK RAIL



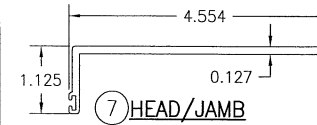
4 SILL



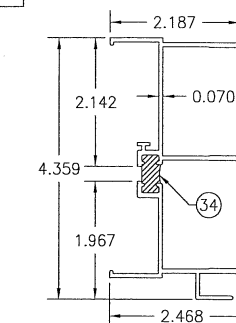
5 SILL WEATHERING SNAP



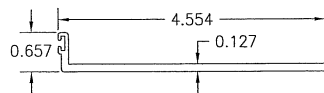
6 HANDLE RAIL



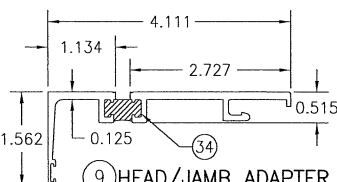
7 HEAD/JAMB
MOUNTING CLIP
LENGTH = 3.000"



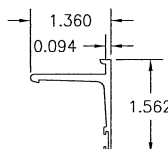
12 FRAME JAMB



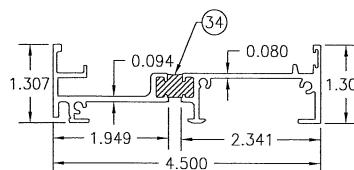
8 SILL MOUNTING CLIP
LENGTH = 3.000"



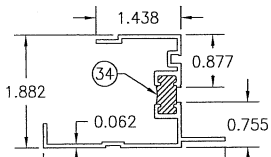
9 HEAD/JAMB ADAPTER



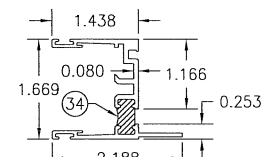
10 HEAD/JAMB
CLOSURE



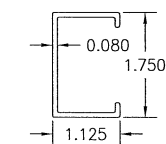
11 SILL ADAPTER



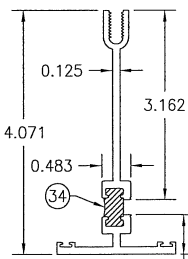
13 FIXED STILE



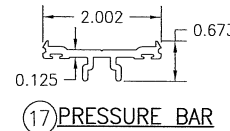
14 ACTIVE STILE



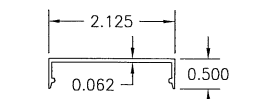
15 SASH STOP



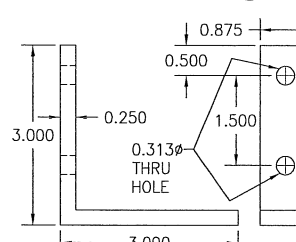
16 MULLION



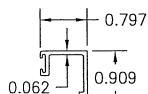
17 PRESSURE BAR



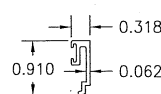
18 PRESSURE BAR COVER



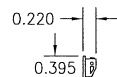
19 MULLION ANCHOR CLIP



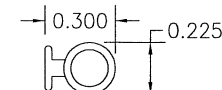
20 NON-IG
GLAZING BEAD



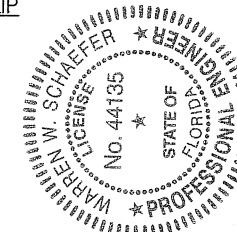
21 IG GLAZING
BEAD



22 WEEP
COVER



36 BULB GLAZING
WEATHERSTRIP



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 04/21/15
DATE	BY
REVISION	DESCRIPTION
NO.	
DRAWING TITLE 8430TL SINGLE HUNG WINDOW (SMALL & LARGE MISSILE IMPACT)	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION	JUN 02 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1897	REV.
SHEET NO. 5	OF 6

