

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.

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.

CORNER & FRAME END CONSTRUCTION:

FRAME CORNER: THE VERTICAL FRAME MEMBER RAN THROUGH WHILE THE HORIZONTAL FRAME MEMBER END WAS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER USING THREE (3) #12 X 1 3/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.

HORIZONTAL (MID-RAIL) END: THE VERTICAL FRAME MEMBER RAN THROUGH WHILE THE HORIZONTAL FRAME MEMBER END WAS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER USING TWO (2) #12 X 1 3/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.

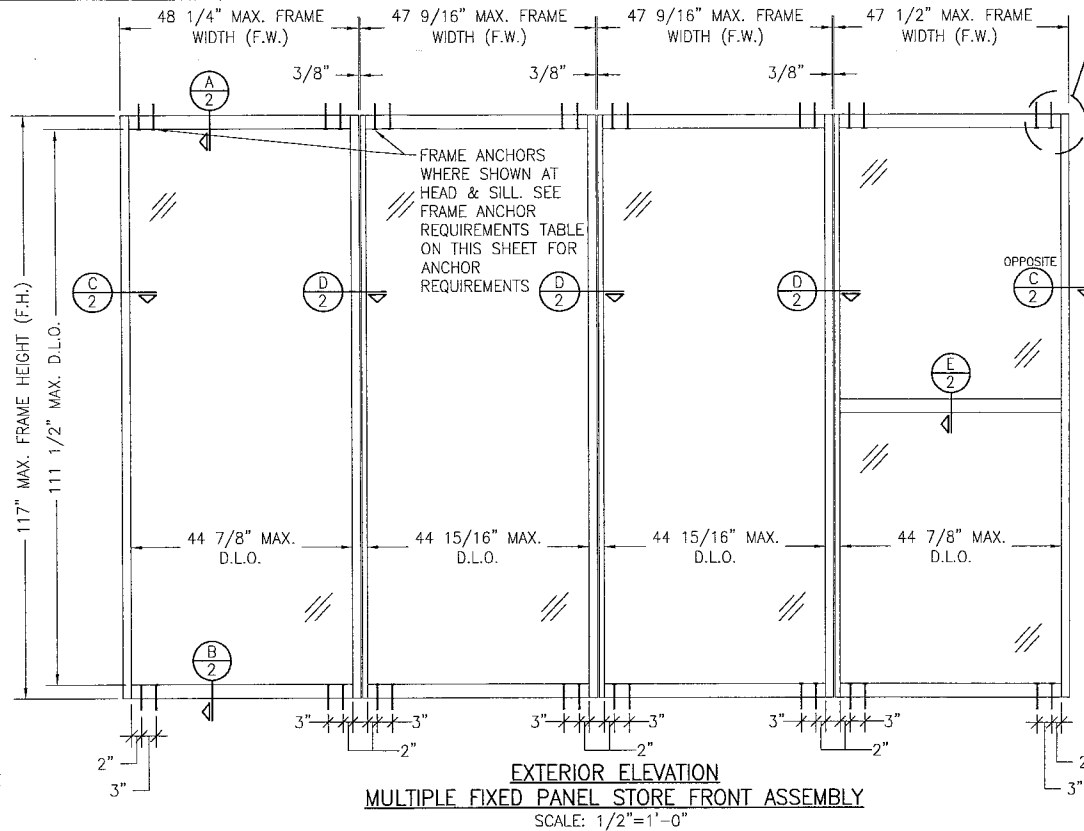
ALLOWABLE DESIGN PRESSURE

+/-95 PSF

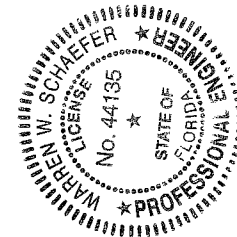
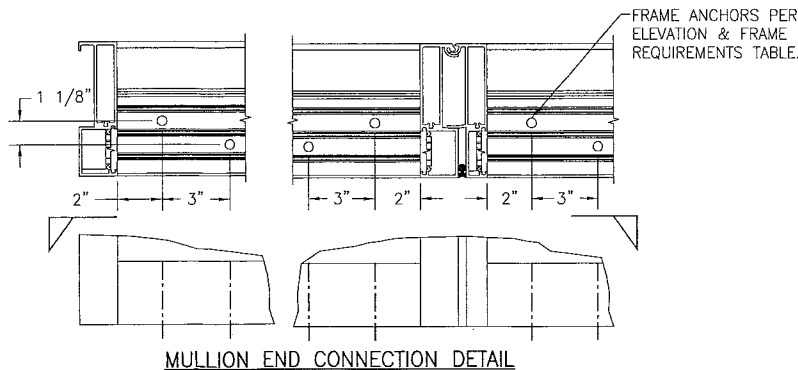
FRAME ANCHOR REQUIREMENTS TABLE

FRAME & SILL ANCHORS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 1/4" THICK A36 STEEL	(1) 3/8" H.H. MACHINE SCREW	FULL	3/4"
MIN. 3000 P.S.I. CONCRETE	(2) 3/8" WEDGE ANCHOR	2 1/2"	3"

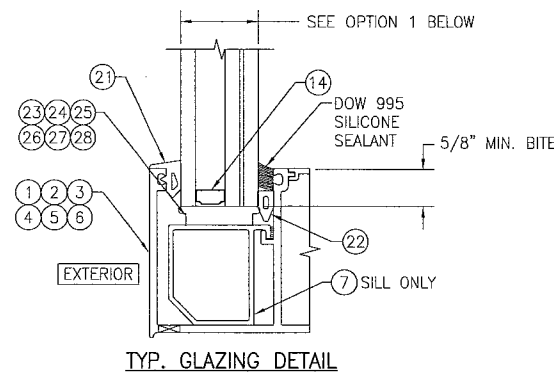
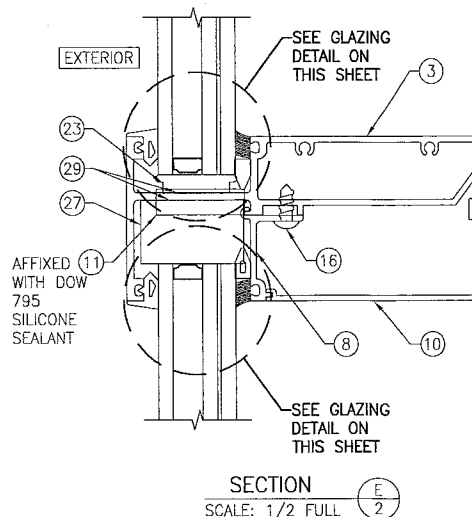
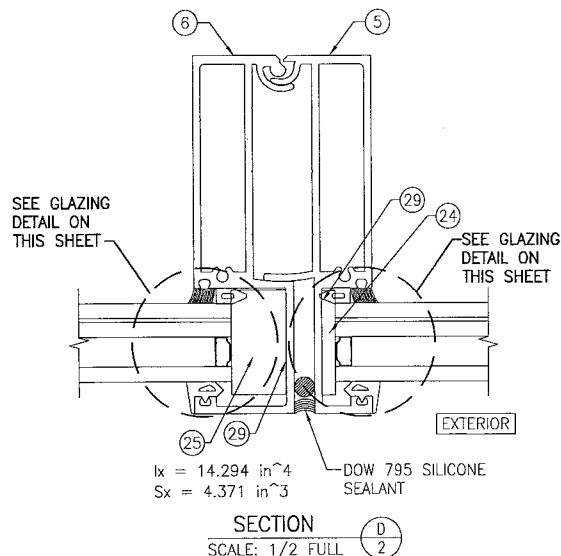
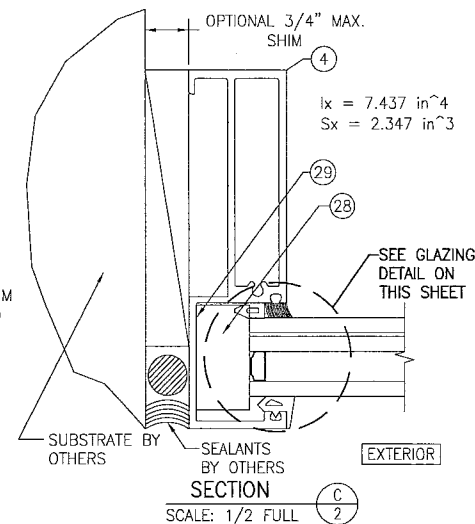
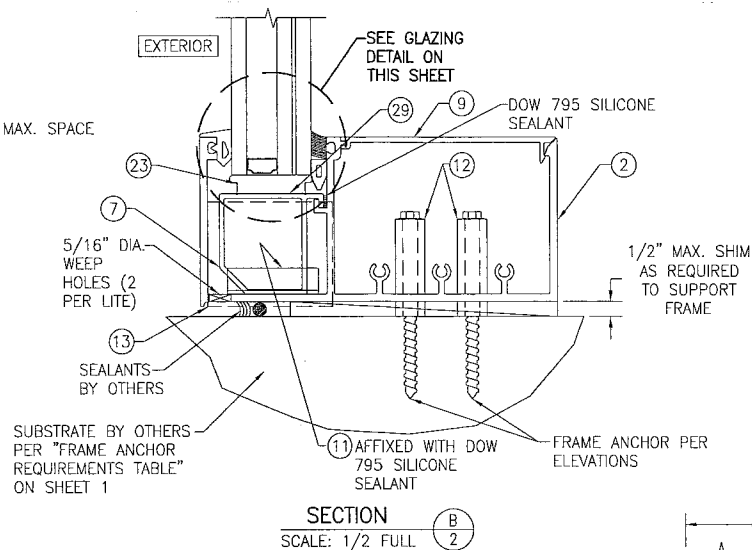
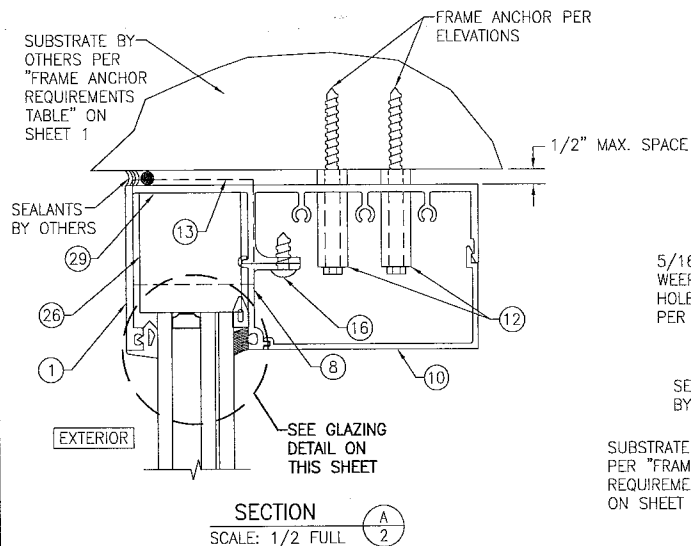
(1) MACHINE SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL.
(2) 3/8" WEDGE ANCHORS SHALL BE POWERS RAWL POWERBOLT, RAMSET RED HEAD DYNABOLT OR HILTI KWIK-BOLT 3 (STEEL OR S.S.)



SEE CORNER CONSTRUCTION DESCRIPTIONS ON THIS SHEET



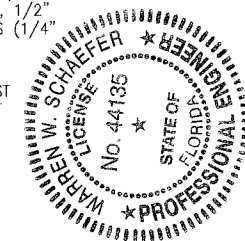
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
DATE: 05/18/08		DATE: 05/28/08	
BY: W.R.M.		BY: W.W.S.	
REVISION DESCRIPTION		REVISION DESCRIPTION	
NO.	DATE	NO.	DATE
1	05/18/08	1	05/18/08
2	06/27/11	2	06/27/11
3	07/07/11	3	07/07/11
4	07/07/11	4	07/07/11
5	07/07/11	5	07/07/11
6	07/07/11	6	07/07/11
7	07/07/11	7	07/07/11
8	07/07/11	8	07/07/11
9	07/07/11	9	07/07/11
10	07/07/11	10	07/07/11
MANUFACTURER		MANUFACTURER	
KAWNEER COMPANY, INC.		KAWNEER COMPANY, INC.	
555 GUTHRIE COURT		555 GUTHRIE COURT	
NORCROSS, GA 30092		NORCROSS, GA 30092	
770-449-5555		770-449-5555	
CONSULTANTS		CONSULTANTS	
W. W. SCHAEFER ENGINEERING		W. W. SCHAEFER ENGINEERING	
& CONSULTING, P.A. (CA 6809)		& CONSULTING, P.A. (CA 6809)	
7480 150TH COURT NORTH		7480 150TH COURT NORTH	
PALM BEACH GARDENS, FL 33418		PALM BEACH GARDENS, FL 33418	
PHONE: 561-744-3424		PHONE: 561-744-3424	
CERTIFICATION		CERTIFICATION	
JAN 07 2016		JAN 07 2016	
WARREN W. SCHAEFER, P.E.		WARREN W. SCHAEFER, P.E.	
P.E. NO. 44135		P.E. NO. 44135	
DRAWING NO. 1482		DRAWING NO. 1482	
SHEET NO. 1		SHEET NO. 1	
OF 3		OF 3	



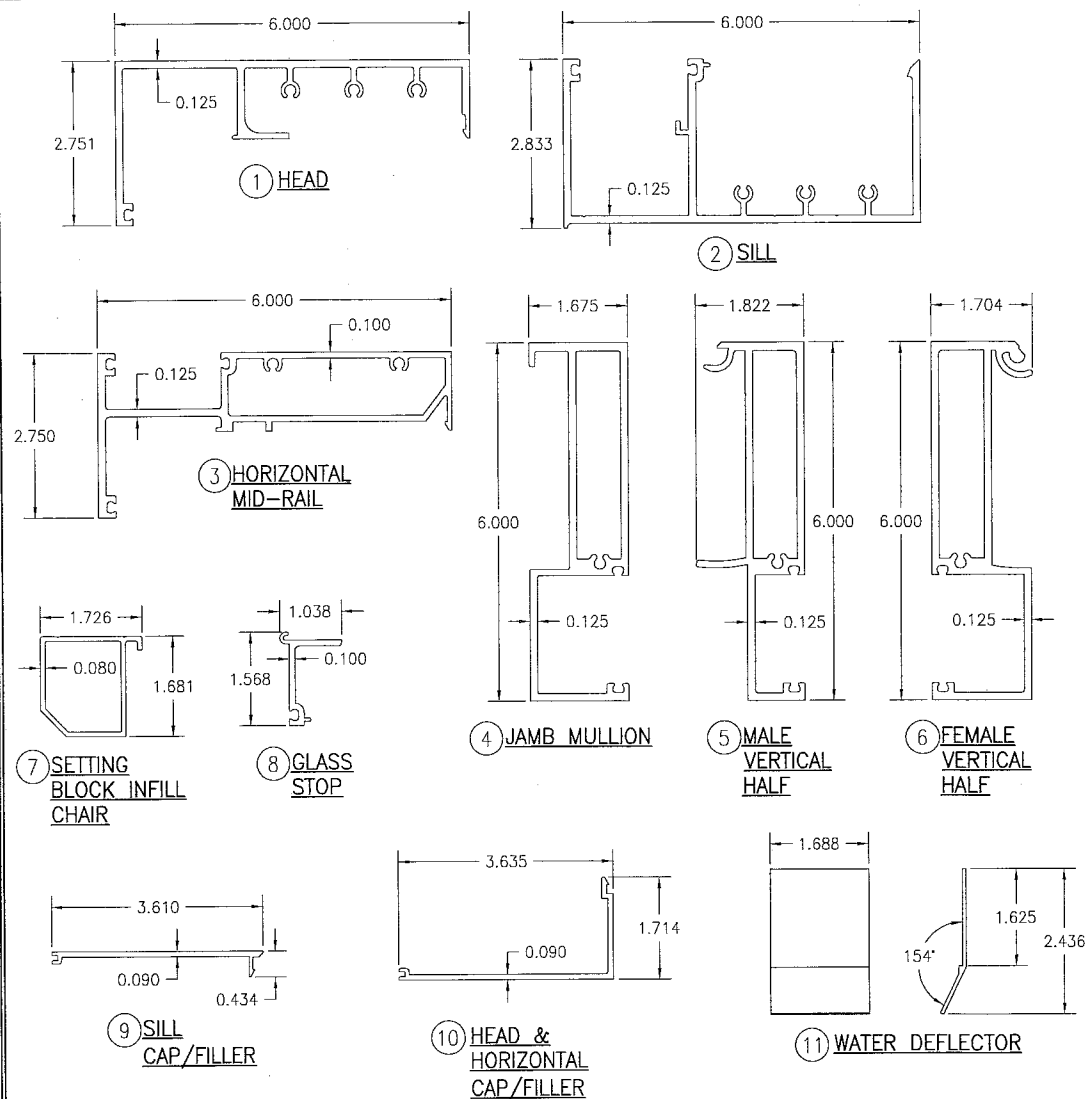
OPTION 1. 1 5/16" THICK LAMINATED I.G. GLASS WITH 1/4" THICK HEAT STRENGTHENED OR TEMPERED OUTER PANE, 1/2" AIR SPACER, AND 9/16" THICK LAMINATED INNER GLASS (1/4" H.S./0.07 EASTMAN CHEM. CO. SAFLEX CP/1/4" H.S.)

NOTE: WHEN SILL HEIGHT OF WINDOW EXCEEDS 30 FT. ABOVE GRADE, THE EXTERIOR PANE OF I.G. GLASS MUST BE TEMPERED OR AN APPROVED SMALL MISSILE IMPACT SYSTEM MUST BE USED.

NOTE: THE SINGLE PANE OF THE IG GLASS SHALL BE TEMPERED WHEN REQUIRED TO CONFORM WITH CHAPTER 24 OF THE FLORIDA BUILDING CODE FOR USE OF GLASS IN HAZARDOUS LOCATIONS.



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
DATE: 08/25/08	DATE: 08/25/08
BY: [Signature]	BY: [Signature]
REVISION DESCRIPTION	NO.
IR 631 - LARGE MISSILE IMPACT STORE FRONT SYSTEM	
MANUFACTURER	KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION	JAN 07 2016
DRAWING NO.	1482
REV.	C
SHEET NO.	2 OF 3



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	831-492	HEAD RAIL	6063-T6 ALUMINUM
2	831-496	SILL RAIL	6063-T6 ALUMINUM
3	831-495	HORIZONTAL MID-RAIL	6063-T6 ALUMINUM
4	831-499	JAMB MULLION	6063-T6 ALUMINUM
5	831-510	MALE VERTICAL HALF	6063-T6 ALUMINUM
6	831-511	FEMALE VERTICAL HALF	6063-T6 ALUMINUM
7	831-498	SETTING BLOCK INFILL CHAIR	6063-T6 ALUMINUM
8	831-493	GLASS STOP	6063-T6 ALUMINUM
9	831-497	SILL CAP/FILLER	6063-T6 ALUMINUM
10	831-494	HEAD & HORIZONTAL CAP/FILLER	6063-T6 ALUMINUM
11	831-656	WATER DEFLECTOR	ASTM A53F LOW-CARBON STEEL
12	-	3/8" X 1 1/4" SCH. 80 PIPE SLEEVE	ASTM A53F LOW-CARBON STEEL
13	575-038	END CAP	6063-T6 ALUMINUM
14	-	1/2" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
MISC. FASTENERS			
16	128-100	1/4" X 5/8" SELF TAPPING SCREW	3" FROM EACH END & ONE (1) AT MID-SPAN
SEALS AND SEALANTS			
21	027-850	FIXED GASKET	TREMCO; SHORE "A" 60 DUROMETER EPDM
22	027-575	WEDGE GASKET (WET GLAZING ONLY)	TREMCO; SHORE "A" 60 DUROMETER EPDM
23	831-578	SETTING BLOCK	KRP; SHORE "A" 85 DUROMETER EPDM
24	831-542	SIDE BLOCK; SHALLOW POCKET	KRP; SHORE "A" 85 DUROMETER EPDM
25	831-579	SIDE BLOCK; DEEP POCKET	KRP; SHORE "A" 85 DUROMETER EPDM
26	831-658	"W" BLOCK; HEAD	KRP; SHORE "A" 85 DUROMETER EPDM
27	831-657	"W" BLOCK; HORIZONTAL	KRP; SHORE "A" 85 DUROMETER EPDM
28	422-434	"W" BLOCK; JAMB	KRP; SHORE "A" 85 DUROMETER EPDM
29	027-895	DOUBLE SIDED TAPE	3M; ACRYLIC FOAM

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 05/26/06	
BY: 05/19/06	DATE: 05/19/06	BY: W.W.S.	DATE: 05/19/06
REVISION DESCRIPTION		NO. CORRECT PART # FOR 9 & 10	
NO. 1			
DRAWING TITLE: IR 631-LARGE MISSILE IMPACT STORE FRONT SYSTEM			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KANNEER COMPANY, INC.	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		555 GUTHRIE COURT, NORCROSS, GA 30092	
PHONE: 561-744-3424		770-449-5555	
CERTIFICATION		JAN 07 2016	
W. W. SCHAEFER, P.E. NO. 44135		W. W. SCHAEFER, P.E. NO. 44135	
DRAWING NO. 1482		REV. C	
SHEET NO. 3		OF 3	

