

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) FOR NON-HIGH VELOCITY HURRICANE ZONES (NON-HVHZ).
5. THIS PRODUCT IS NON-IMPACT RATED & MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
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.

ALTERNATE ANCHOR/SUBSTRATE EVALUATION NOTE:
ALL ALTERNATE ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE EQUIVALENT TO OR STRONGER THAN THE ANCHOR(S) USED IN TESTING WITH THIS PRODUCT.

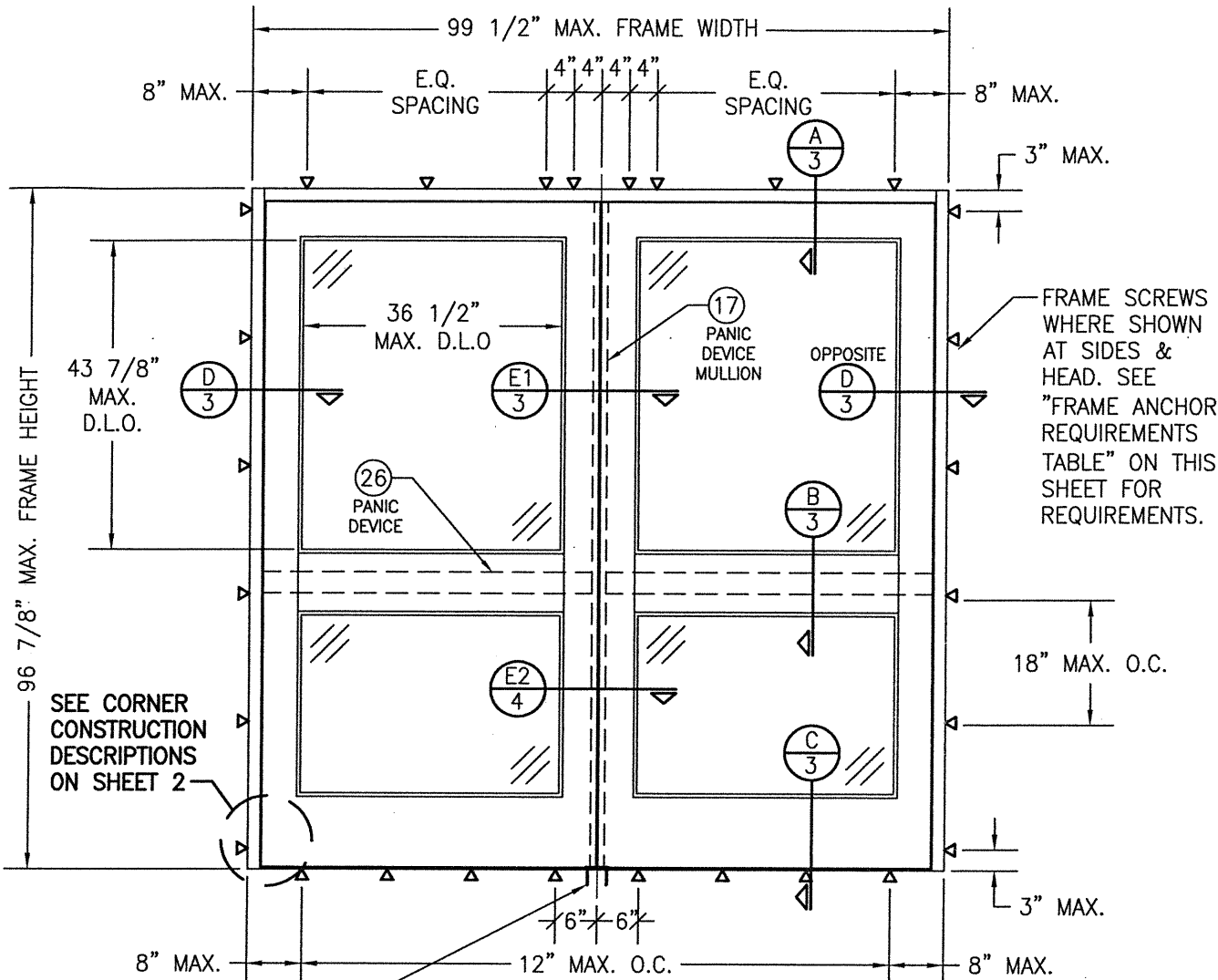
FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/MULLION PLATE/SILL TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
(2) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 14 SMS OR WOOD SCREW	1 1/4"	1"
MIN. 16 GA. 50 KSI METAL STUD	NO. 14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	NO. 14 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"
SILL SCREWS			
(2) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 16 GA. 50 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. 0.100" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
MULLION END PLATE SCREWS			
(2) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 18 SMS OR WOOD SCREW	1 1/4"	1"
MIN. 16 GA. 50 KSI METAL STUD	5/16-18 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	5/16-18 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	5/16-18 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
2500 PSI CONCRETE	(1) 5/16" 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.).
- (2) 2X6 BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 4 1/4".

NOTE: THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

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.



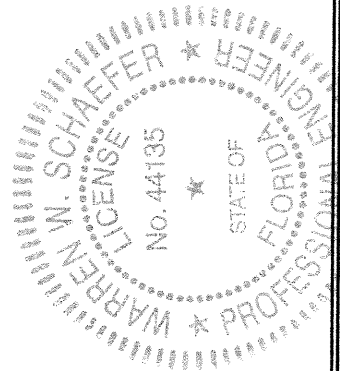
MULLION END PLATE SCREWS WHERE SHOWN (4 PER PLATE). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.

**EXTERIOR ELEVATION:
DOUBLE RECTANGULAR DOOR**

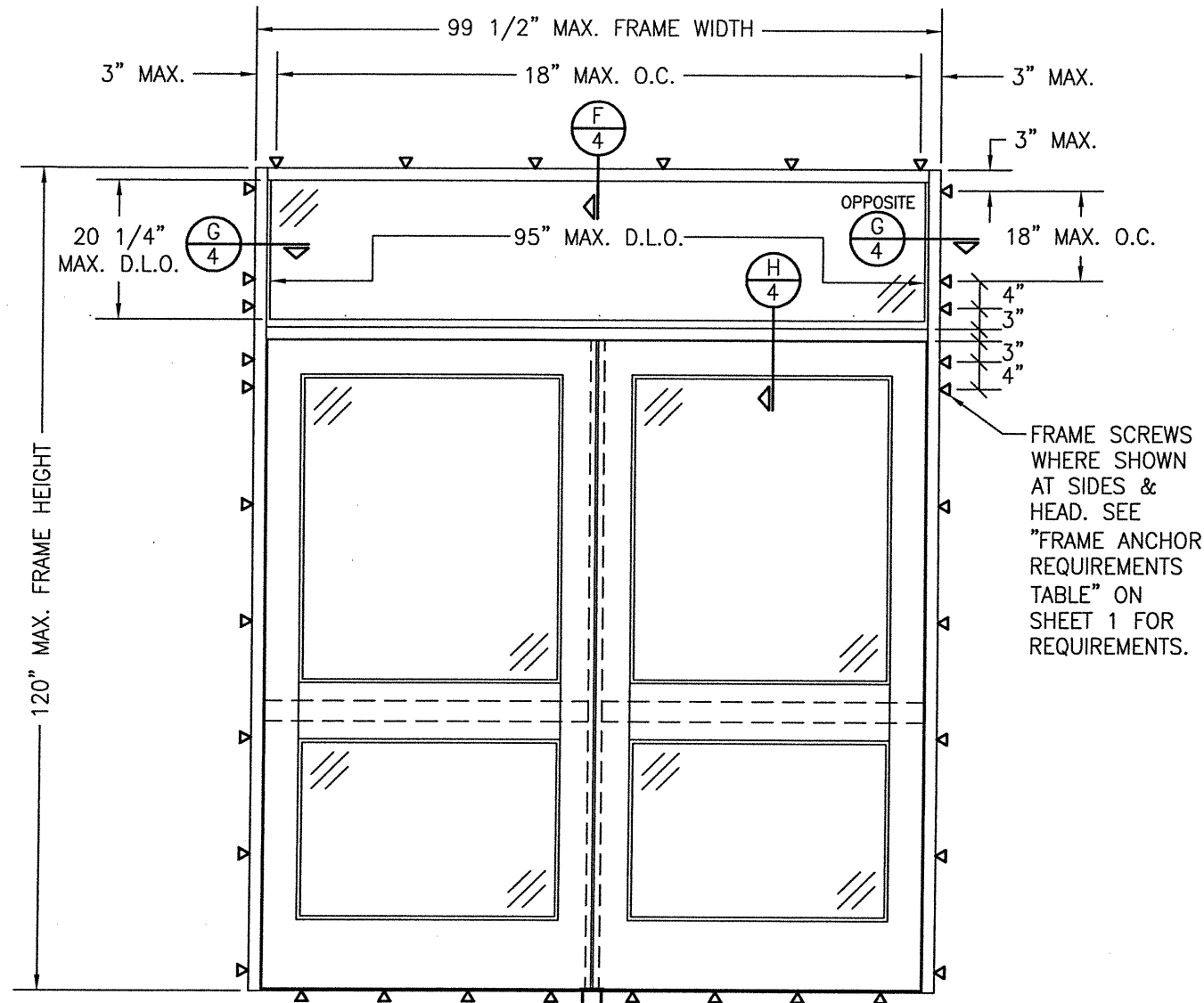
SCALE: 1/2" = 1'-0"

ALLOWABLE DESIGN PRESSURE
+45/-50 PSF

SILLS SCREWS WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.



DRAWING TITLE		DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
500 NON-IMPACT DOOR IN 450 FRAMING		PLOT: 1=24		DATE: 01/17/12	
MANUFACTURER		NO.		REVISION DESCRIPTION	
KAWNEER COMPANY, INC.		A1		UPDATE TO PRESENT STANDARDS	
CONSULTANTS		BY		DATE	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		W.W.S.		12/15/14	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424					
CERTIFICATION					
MAY 13 2021					
WARREN W. SCHAEFER, P.E. P.E. NO. 44135					
DRAWING NO. 1793		REV. A			
SHEET NO. 1 OF 6					



**EXTERIOR ELEVATION:
DOUBLE RECTANGULAR DOOR
WITH TRANSOM**

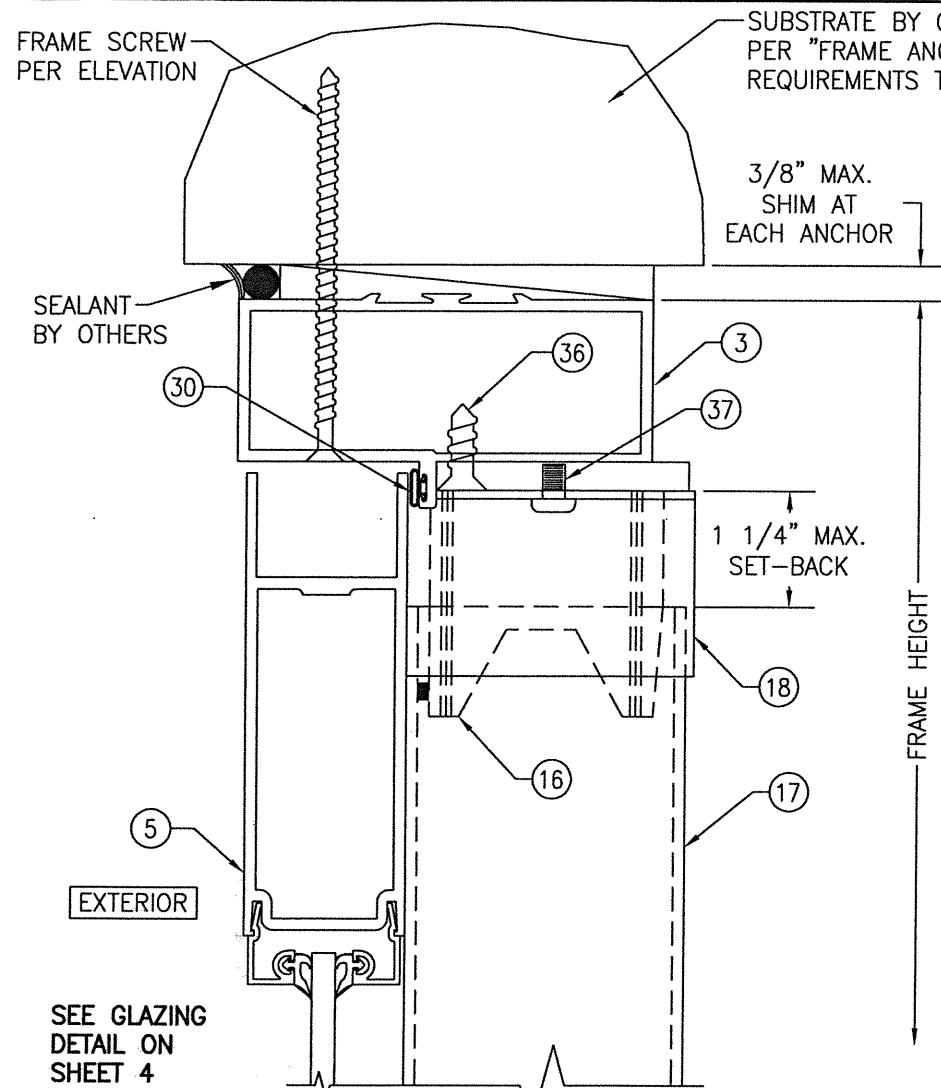
SCALE: 1/2" = 1'-0"
(FOR DOOR DETAIL NOT SHOWN, SEE
SINGLE UNIT ELEVATION ON SHEET 1)

ALLOWABLE DESIGN PRESSURE
+45/-50 PSF

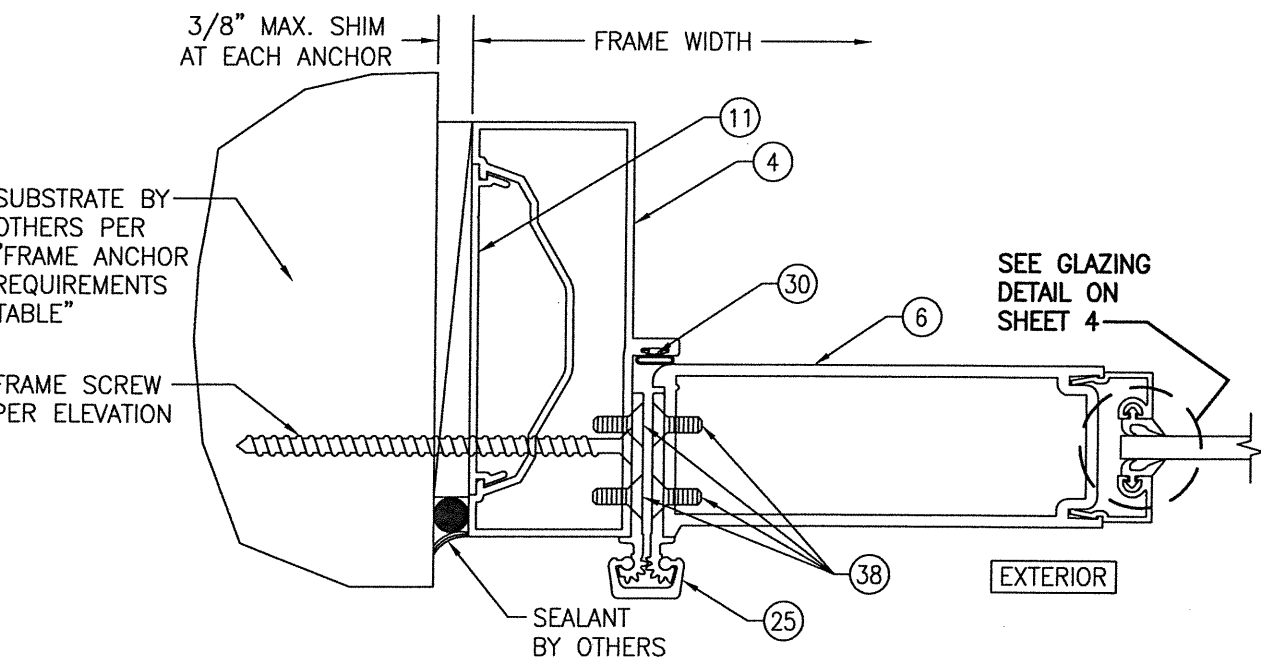
CORNER CONSTRUCTION:

FRAME HEAD CORNER: VERTICAL FRAME MEMBERS RUN THROUGH WHILE THE HORIZONTAL FRAME MEMBER IS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED WITH 2 NO. 12 X 1 1/8" PHTF THROUGH THE VERTICAL MEMBERS INTO THE HORIZONTAL MEMBER SCREW SPLINES. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.
DOOR HEAD: VERTICAL FRAME MEMBERS RUN THROUGH WHILE THE HORIZONTAL DOOR HEAD MEMBER IS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #12). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 10 X 1 19/32" PHTFSCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 10 X 9/16" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.
FRAME SILL CORNER: VERTICAL FRAME MEMBERS RUN THROUGH WHILE THE SILL MEMBER IS SQUARE CUT AND BUTTED TO THE VERTICAL FRAME MEMBERS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.
DOOR PANEL CORNER: VERTICAL STILES RUN THROUGH AND ARE SECURED TO THE RAILS AT THE TOP & BOTTOM WITH 1/4" THICK EXTRUDED CHANNELS. EACH CHANNEL IS FASTENED TO THE STILE & RAIL WITH 1/4-20 X 3/4" PHMS & 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED WITH A 1/2" DIA. PLUG WELD AND A 1 1/8" LONG FILLET WELD AT BOTH WEBS OF THE RAIL.
MID-RAIL ENDS: SECURED TO THE VERTICAL RAILS WITH 4 EACH 1 1/8" LONG FILLET WELDS.

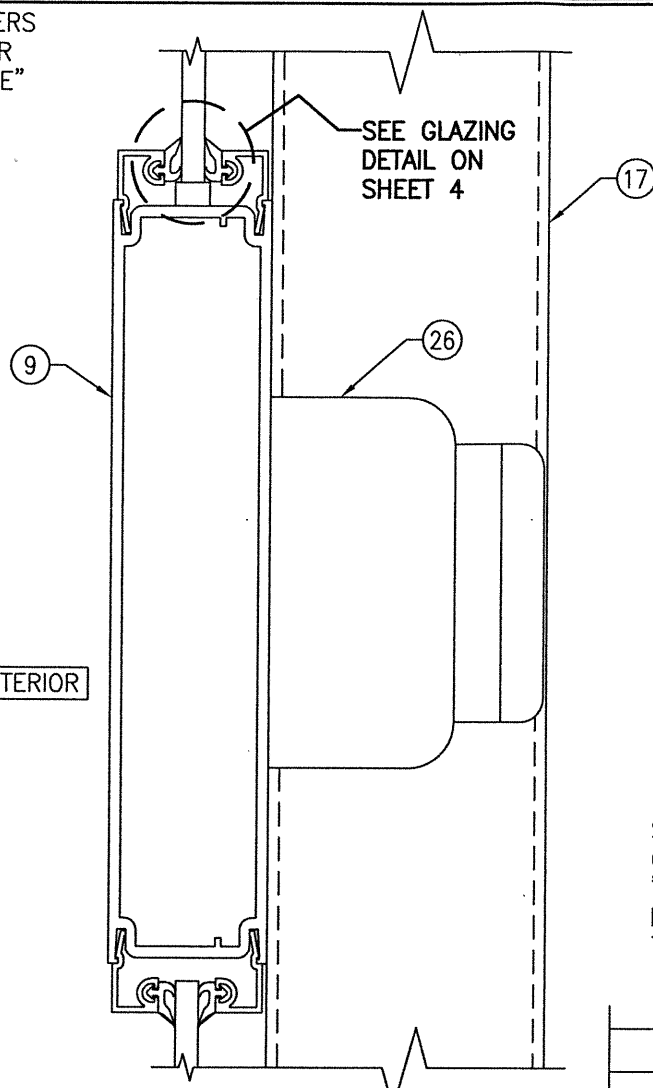
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 01/17/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 500 NON-IMPACT DOOR IN 450 FRAMING		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.E. NO. 44135 WARREN W. SCHAEFER, P.E.	
CERTIFICATION MAY 13 2021	DRAWING NO. 1793 SHEET NO. 2 OF 6		



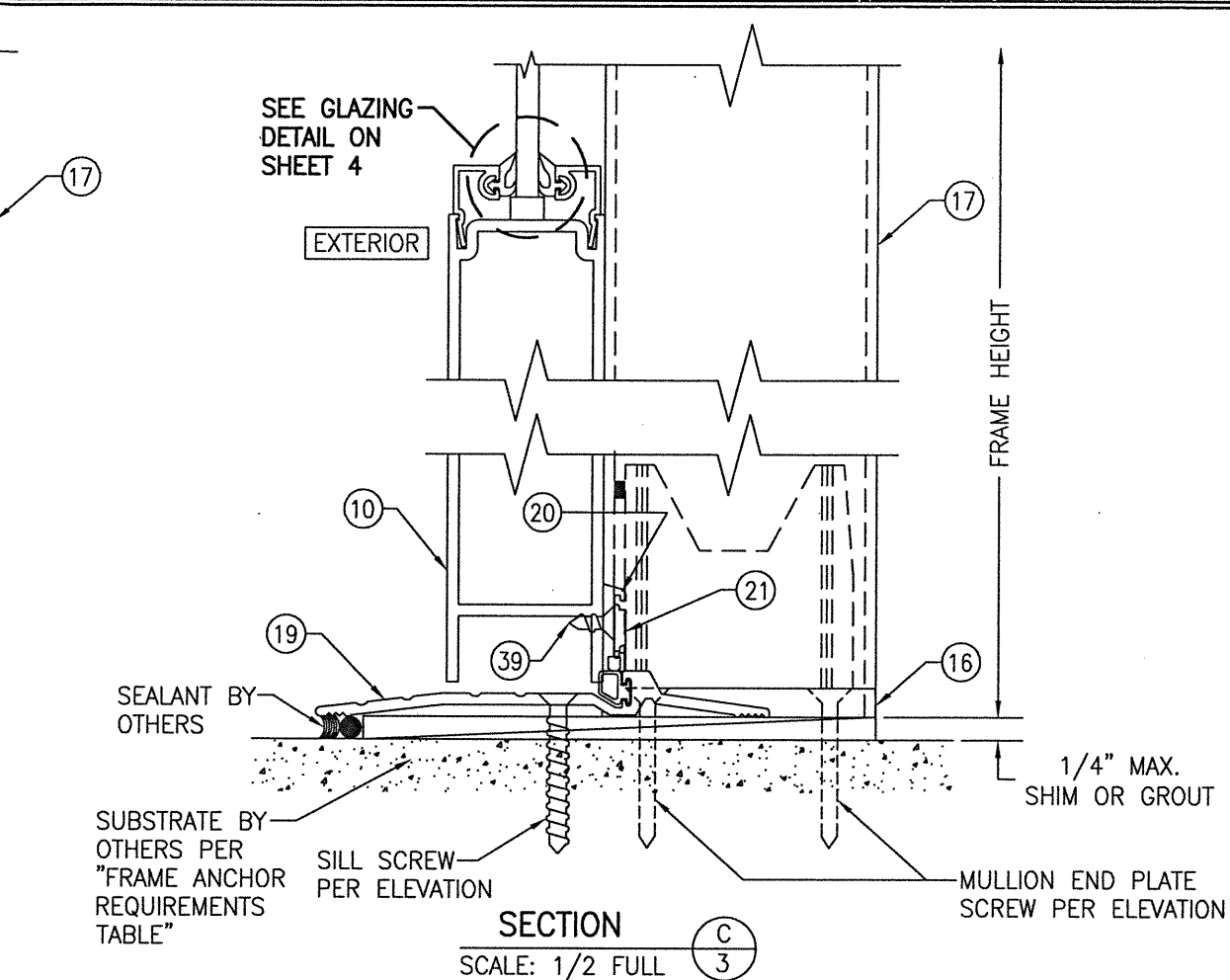
SECTION A
SCALE: 1/2 FULL



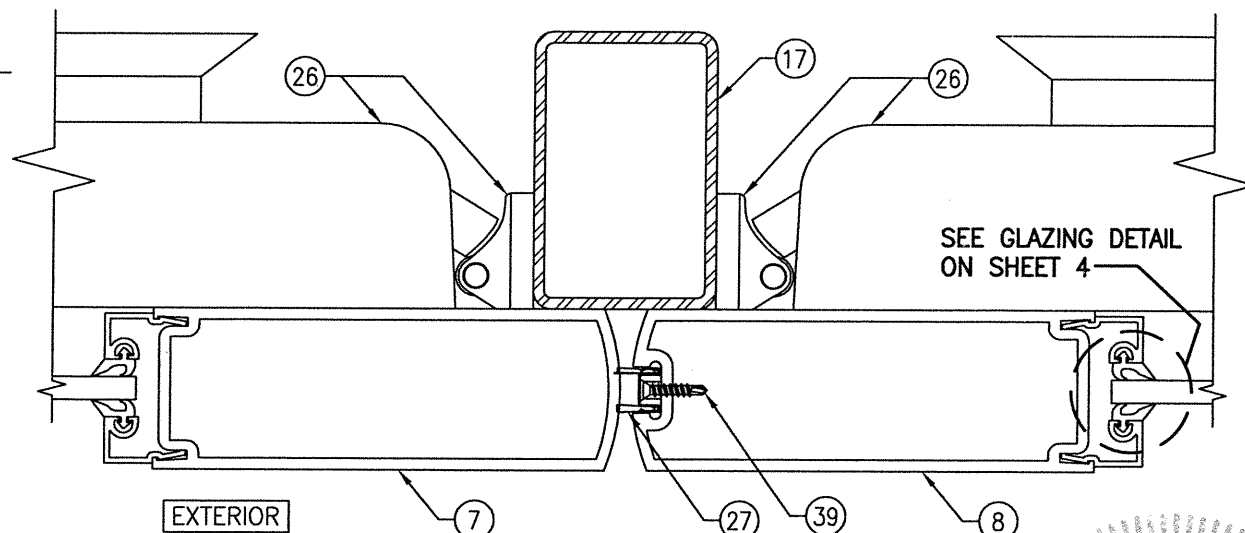
SECTION D
SCALE: 1/2 FULL



SECTION B
SCALE: 1/2 FULL

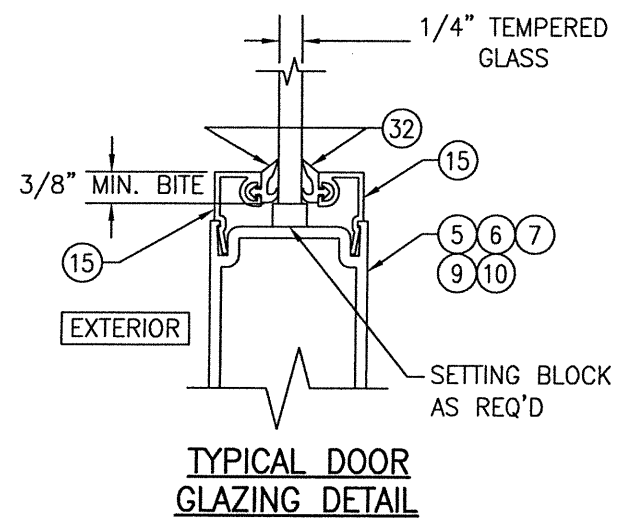
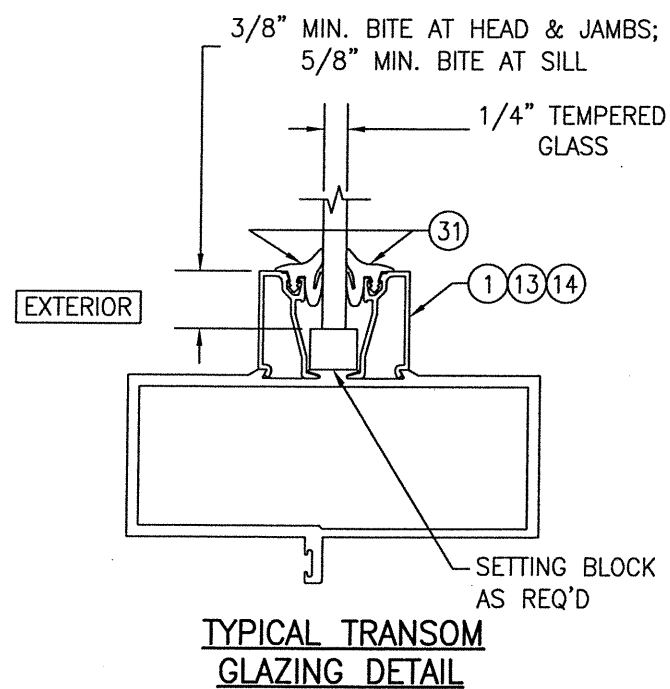
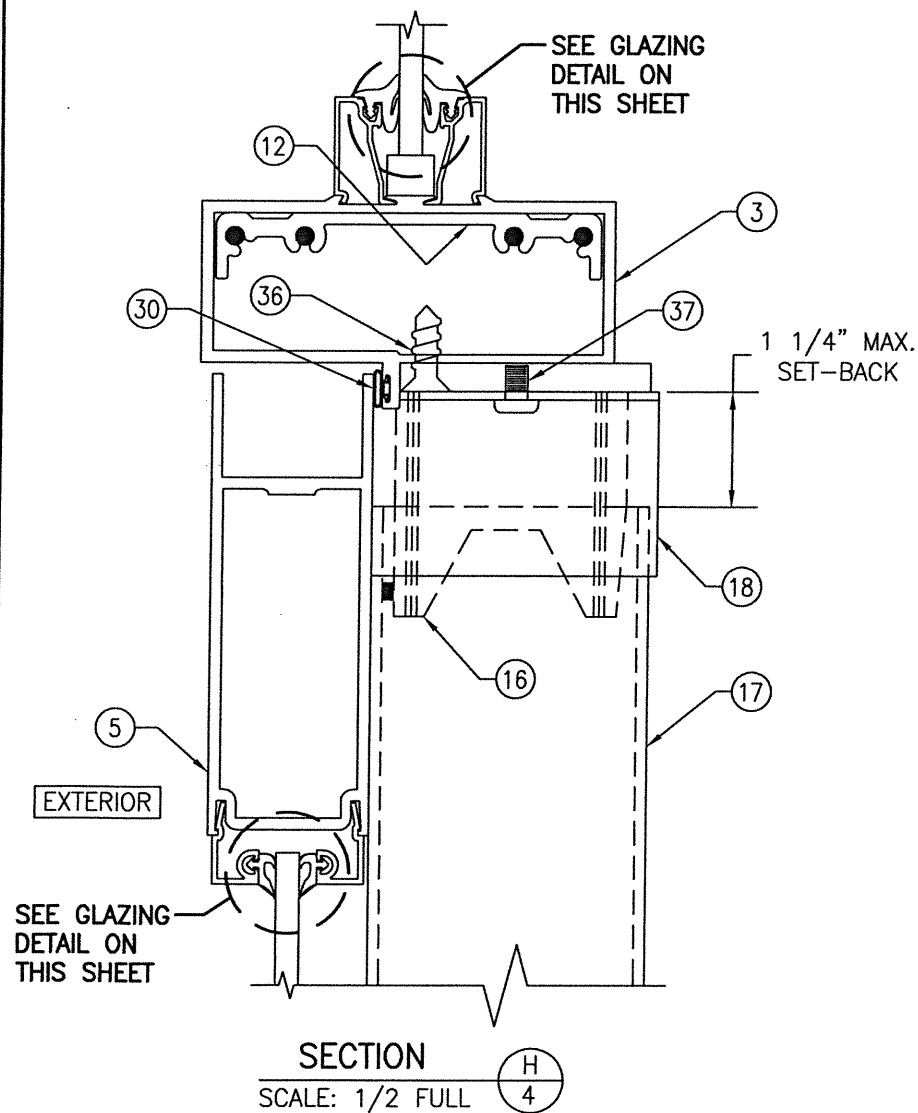
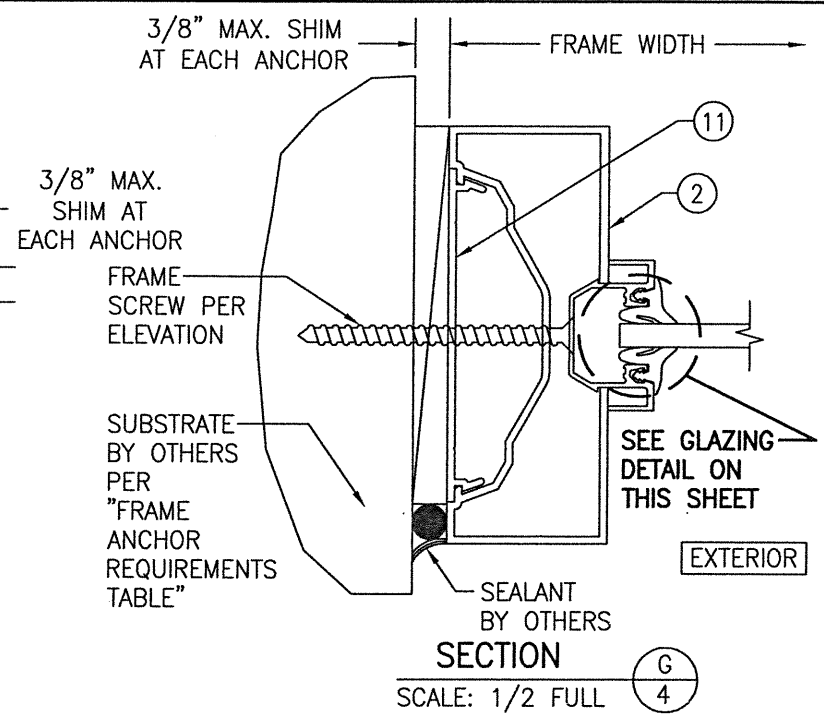
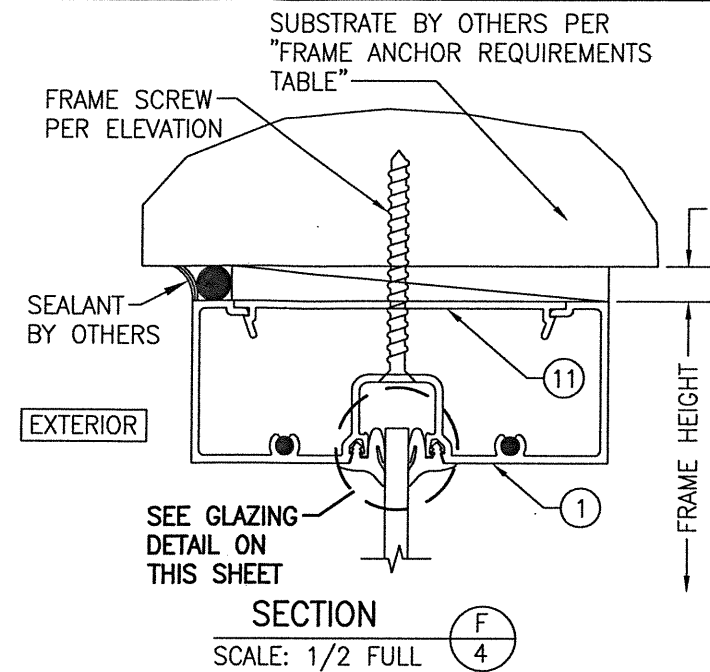
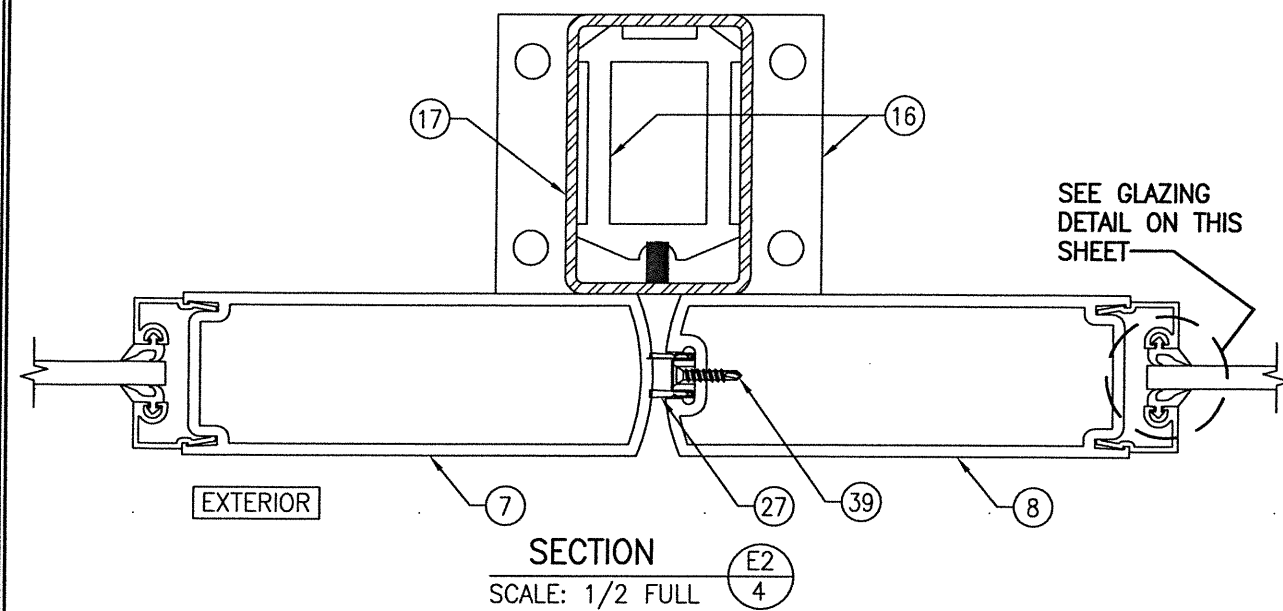


SECTION C
SCALE: 1/2 FULL



SECTION E1
SCALE: 1/2 FULL

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/17/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 500 NON-IMPACT DOOR IN 450 FRAMING 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: MAY 18 2021 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1793		REV. A	
SHEET NO. 3		OF 6	



DRAWING NO. 1793		REV. A	
SHEET NO. 4 OF 6			

CERTIFICATION
 MAY 13 2021
 PROFESSIONAL ENGINEER

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

CONSULTANTS
**W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)**
 7480 150TH COURT NORTH
 PALM BEACH GARDENS, FL 33418
 PHONE: 561-744-5424

MANUFACTURER
KAWNEER COMPANY, INC.
 555 GUTHRIDGE COURT
 NORCROSS, GA 30092
 770-449-5555

DRAWING TITLE
500 NON-IMPACT DOOR IN 450 FRAMING

NO.	REVISION	DESCRIPTION	BY	DATE

DRAWN BY: W.R.M.
 CHECKED BY: W.W.S.
 PLOT: 1=2
 DATE: 01/17/12

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	TRANSOM HEAD FRAME	6063-T6 ALUMINUM
2	TRANSOM JAMB FRAME	6063-T6 ALUMINUM
3	DOOR HEAD	6063-T6 ALUMINUM
4	DOOR FRAME	6063-T6 ALUMINUM
5	TOP RAIL	6063-T6 ALUMINUM
6	HINGE STILE	6063-T6 ALUMINUM
7	MEETING STILE	6063-T6 ALUMINUM
8	MEETING STILE	6063-T6 ALUMINUM
9	MID-RAIL	6063-T6 ALUMINUM
10	BOTTOM-RAIL	6063-T6 ALUMINUM
11	POCKET INSERT	6063-T6 ALUMINUM
12	SHEAR BLOCK	6063-T6 ALUMINUM
13	TRANSOM GLAZING INSERT	6063-T6 ALUMINUM
14	TRANSOM GLAZING BEAD	6063-T6 ALUMINUM
15	DOOR GLAZING BEAD	6063-T6 ALUMINUM
16	MULLION END PLATE	SUPPLIED WITH ITEM #26
17	PANIC DEVICE MULLION	SUPPLIED WITH ITEM #26
18	PANIC DEVICE MULLION TOP PLATE	SUPPLIED WITH ITEM #26
19	SILL	6063-T5 ALUMINUM PEMKO 2005_V
20	DOOR BOTTOM RAIL WEATHER SWEEP BODY	6063-T6 ALUMINUM
21	DOOR BOTTOM RAIL WEATHER SWEEP SCREW COVER	6063-T6 ALUMINUM
HARDWARE		
25	CONTINUOUS GEAR HINGE (KAWNEER PART NO. 050-821)	HAGER/ROTON, STANLEY OR ABH
26	PANIC DEVICE	VON DUPRIN 9954
27	ADJUSTABLE ASTRAGAL	AMESBURY 200-436
SEALS & SEALANTS		
30	DOOR BULB WEATHERING	ALCRYN
31	GLAZING GASKET (TRANSOM)	TRELLEBORG 027-074 EPDM DUROMETER 70 +/-5
32	GLAZING GASKET (DOOR)	TREMCO TR-13536E EPDM DUROMETER 70 +/-5
FASTENERS		
36	5/16-18 X 1" FHTCS TYPE F	2 PER TOP MULLION END PLATE
37	1/4-20 X 3/8" PPHMS	2 PER PANIC DEVICE MULLION TOP CAP
38	NO. 12-24 X 13/32" SCREW	2 9/16" FROM ENDS & MAX. 5 1/8" O.C. (52 MAX. PER HINGE)
39	NO. 6 X 3/4" S.S. SCREW	1/4" FROM ENDS & MAX. 9 17/32" O.C.

DRAWING TITLE
500 NON-IMPACT DOOR IN 450 FRAMING

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)

CERTIFICATION
MAY 13 2021

DRAWING NO.
1793

SHEET NO.
6 OF 6

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

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

DRAWN BY:
W.R.M.

CHECKED BY:
W.W.S.

PLOT:
1=2

DATE:
01/17/12

DATE					
BY					
REVISION DESCRIPTION					
NO.					