

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 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.

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 CONSTRUCTION:

FRAME ASSEMBLY: HORIZONTAL MEMBERS RUN THROUGH WITH VERTICAL MEMBERS RUNNING BETWEEN THE HORIZONTALS. BEFORE ASSEMBLY, SEALANT IS APPLIED TO THE VERTICAL MEMBER ENDS. THE VERTICAL MEMBER ENDS ARE THEN BUTTED TO THE HORIZONTAL MEMBERS, SCREW HOLES ARE FILLED WITH SEALANT AND THE MEMBERS ARE JOINED WITH #12X2" HWH THREAD FORMING SCREWS (QUANTITIES VARY WITH LOCATION & MATCH THE QUANTITY OF AVAILABLE SCREW SPLINES). ONCE ASSEMBLED, SEALANT IS TOOLED AND ALL VOIDS FILLED. END DAMS ARE THEN PLACED TO CLOSE OFF THE HORIZONTAL MEMBER ENDS.

SUB-SASH & SLIDING PANEL ASSEMBLY: VERTICAL MEMBERS RUN THROUGH WITH HORIZONTAL MEMBERS RUNNING BETWEEN THE VERTICALS. SEALANT IS APPLIED TO THE HORIZONTAL ENDS AND GASKET RACEWAYS AND THE MEMBERS ARE JOINED WITH NO. 12 X 2" HWH THREAD FORMING SCREWS (QUANTITIES VARY WITH LOCATION & MATCH THE QUANTITY OF AVAILABLE SCREW SPLINES).

FRAME ANCHOR REQUIREMENTS TABLE

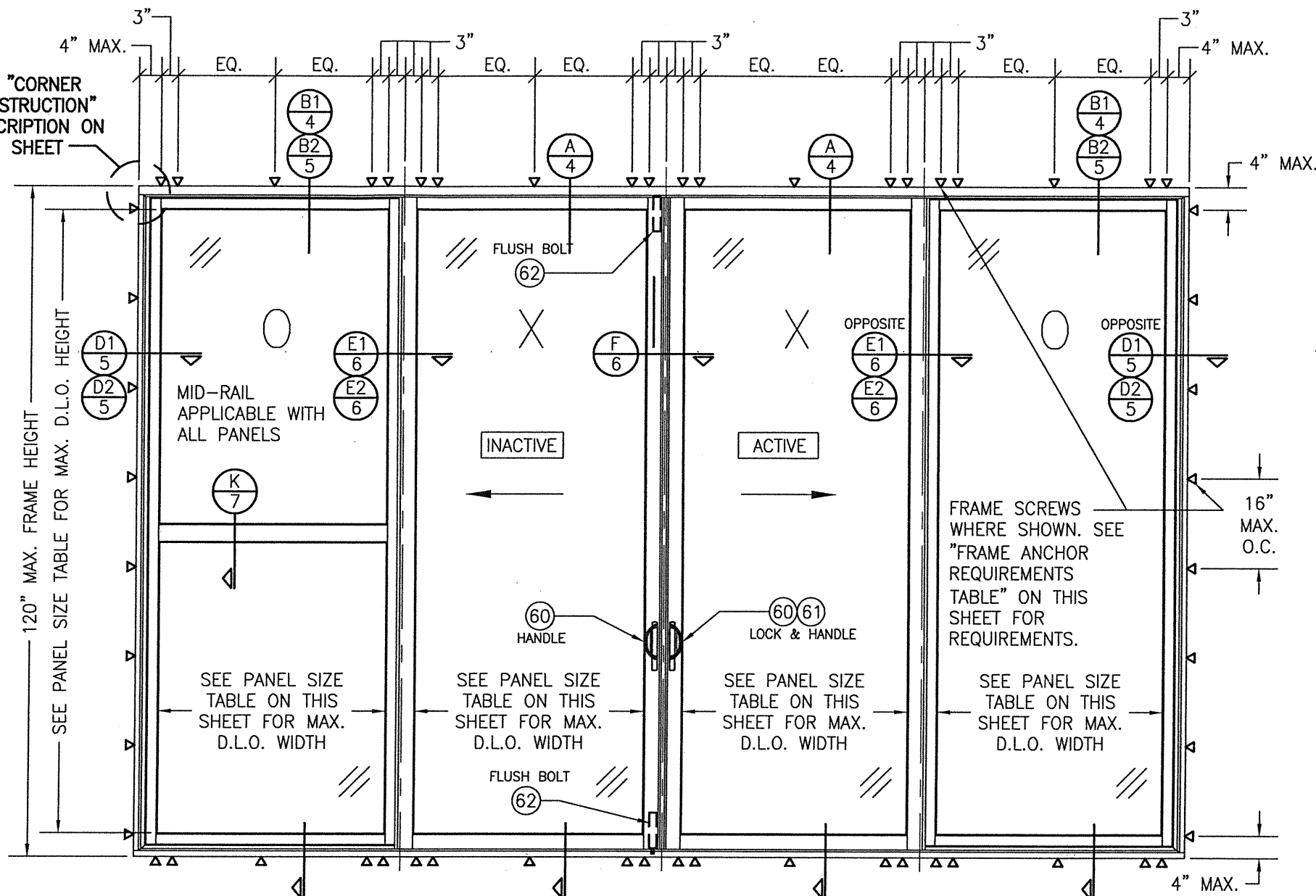
FRAME & RECEPTOR SCREWS

OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 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	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CONCR. FILLED CMU	(1) (2) 1/4" CONCRETE SCREW	1 1/2"	2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

(2) CMU OPENINGS MUST HAVE REINFORCED CONCRETE FILLED CELLS AT THE SIDES.

SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET



EXTERIOR ELEVATION:
4-PANEL OXXO DOOR WITHOUT HEAD RECEPTOR

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

ELEVATION NOTES:

1. FIXED "O" PANELS SHOWN AS SASH GLAZED. DIRECT GLAZING TO FRAME ALSO APPLIES PER THE SECTIONS.
2. FOR HEAD RECEPTOR APPLICATION, SEE ELEVATION ON SHEET 3.
3. FOR APPLICABLE PANEL CONDITIONS AND "O"/"X" COMBINATIONS, SEE NOTATION ON SHEET 2.

ALLOWABLE DESIGN PRESSURE (ALL UNITS)

+/-70 PSF

ALLOWABLE PANEL SIZE TABLE (SASH GLAZED PANELS)

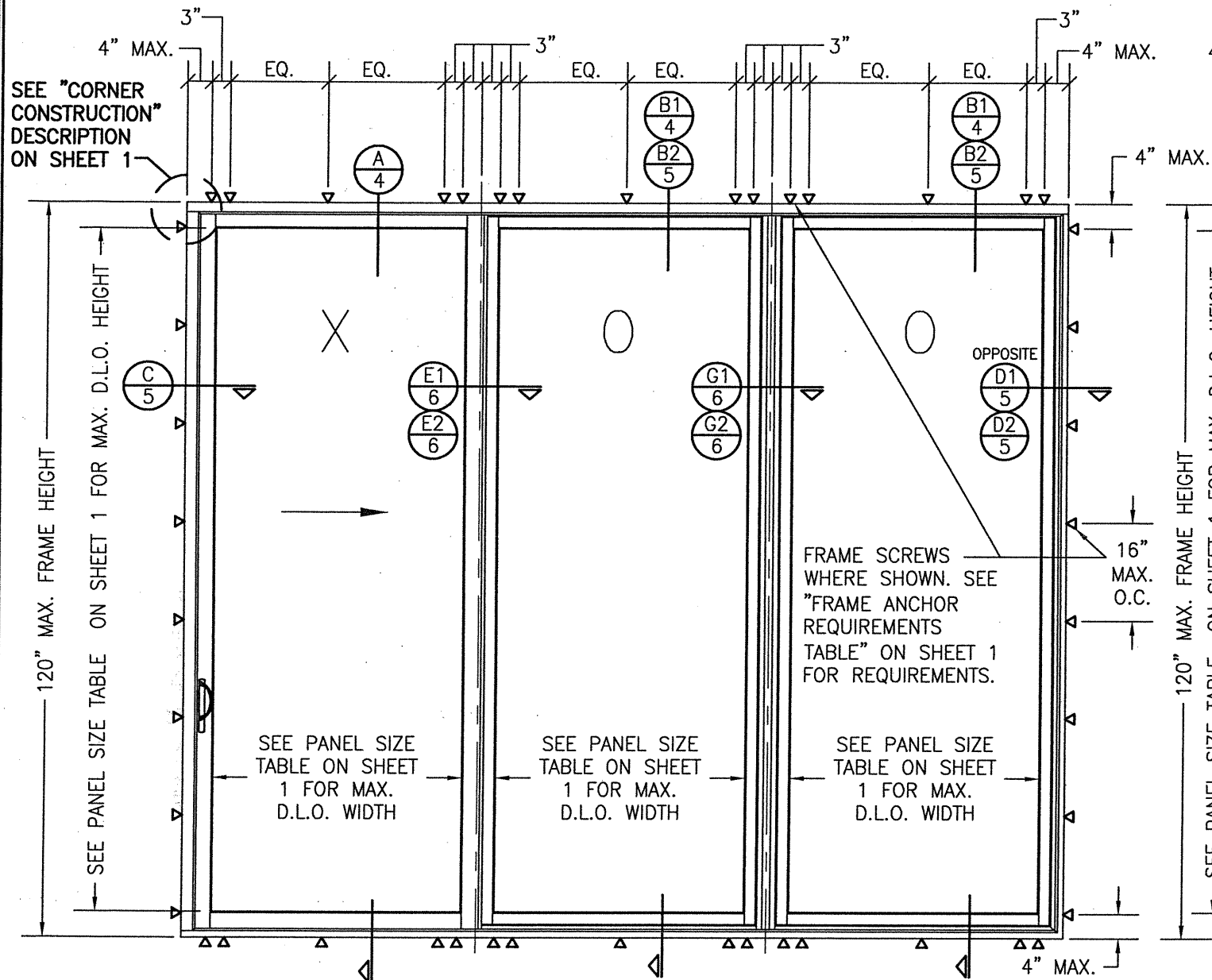
MAXIMUM D.L.O. WIDTH (IN.)	MAXIMUM D.L.O. HEIGHT (IN.)
53 15/16	87 1/2
51	88 1/2
48	94 1/16
45	100 5/16
42	107 1/2
40 1/2	111 1/2

ALLOWABLE PANEL SIZE TABLE (DIRECT GLAZED PANELS)

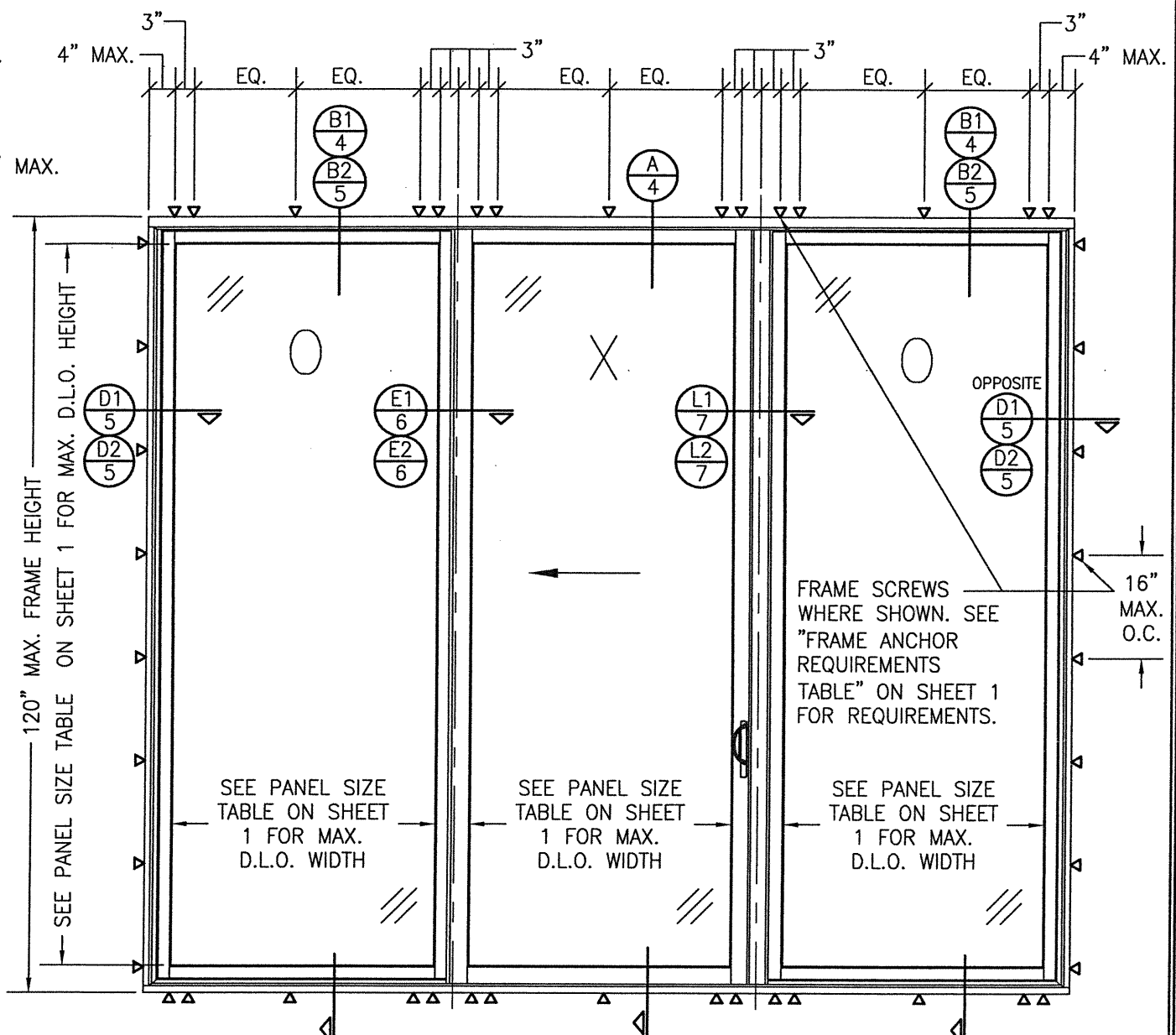
MAXIMUM D.L.O. WIDTH (IN.)	MAXIMUM D.L.O. HEIGHT (IN.)
57 15/16	91 1/2
54	98 1/8
51	103 15/16
48	110 7/16
44 1/2	111 1/2

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.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 06/25/10	
DATE	BY	W.R.M.	W.W.S.
08/29/11	12/15/11		
REVISION	DESCRIPTION		
A1	UPDATE TO CURRENT STANDARDS		
B1	UPDATE TO CURRENT STANDARDS		
DRAWING TITLE: AA-3200-IR LOW PRESSURE SLIDING GLASS DOORS (LMI & SMI)			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: FEB 09 2021		DRAWING NO. 1707	
WARREN W. SCHAEFER, P.E.		REV. B	
P.E. NO. 44135		SHEET NO. 1 OF 10	



EXTERIOR ELEVATION:
3-PANEL XOO DOOR WITHOUT HEAD RECEPTOR
 SCALE: 1/2" = 1'-0"



EXTERIOR ELEVATION:
3-PANEL OXO DOOR WITHOUT HEAD RECEPTOR
 SCALE: 1/2" = 1'-0"

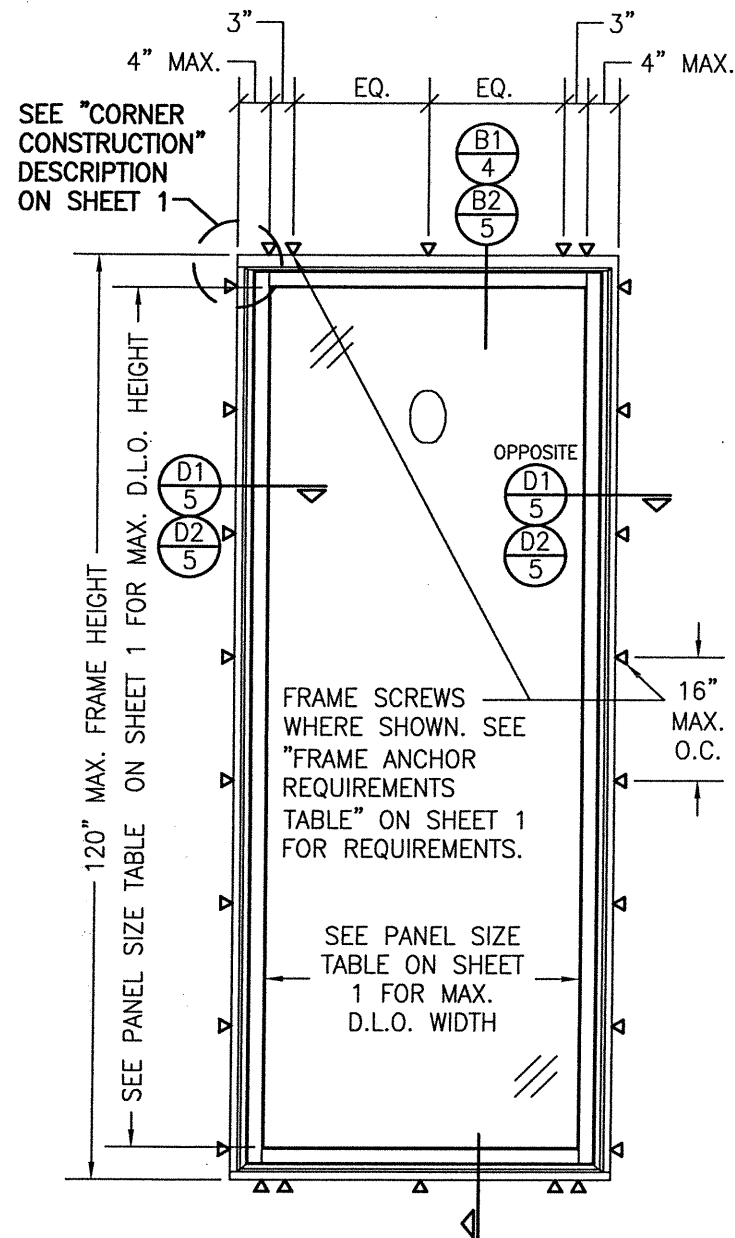
ELEVATION NOTES:

1. FIXED "O" PANELS SHOWN AS SASH GLAZED. DIRECT GLAZING TO FRAME ALSO APPLIES PER THE SECTIONS.
2. FOR HEAD RECEPTOR APPLICATION, SEE "XOO" ELEVATION ON SHEET 3.
3. FOR APPLICABLE PANEL CONDITIONS AND "O"/"X" COMBINATIONS, SEE NOTATION ON THIS SHEET.

APPLICABLE PANEL COMBINATIONS:

O, OX, XO, XX, OO, OXO, XOO, OOX, XOX, OOO, OXXO, OOOO & XOOX

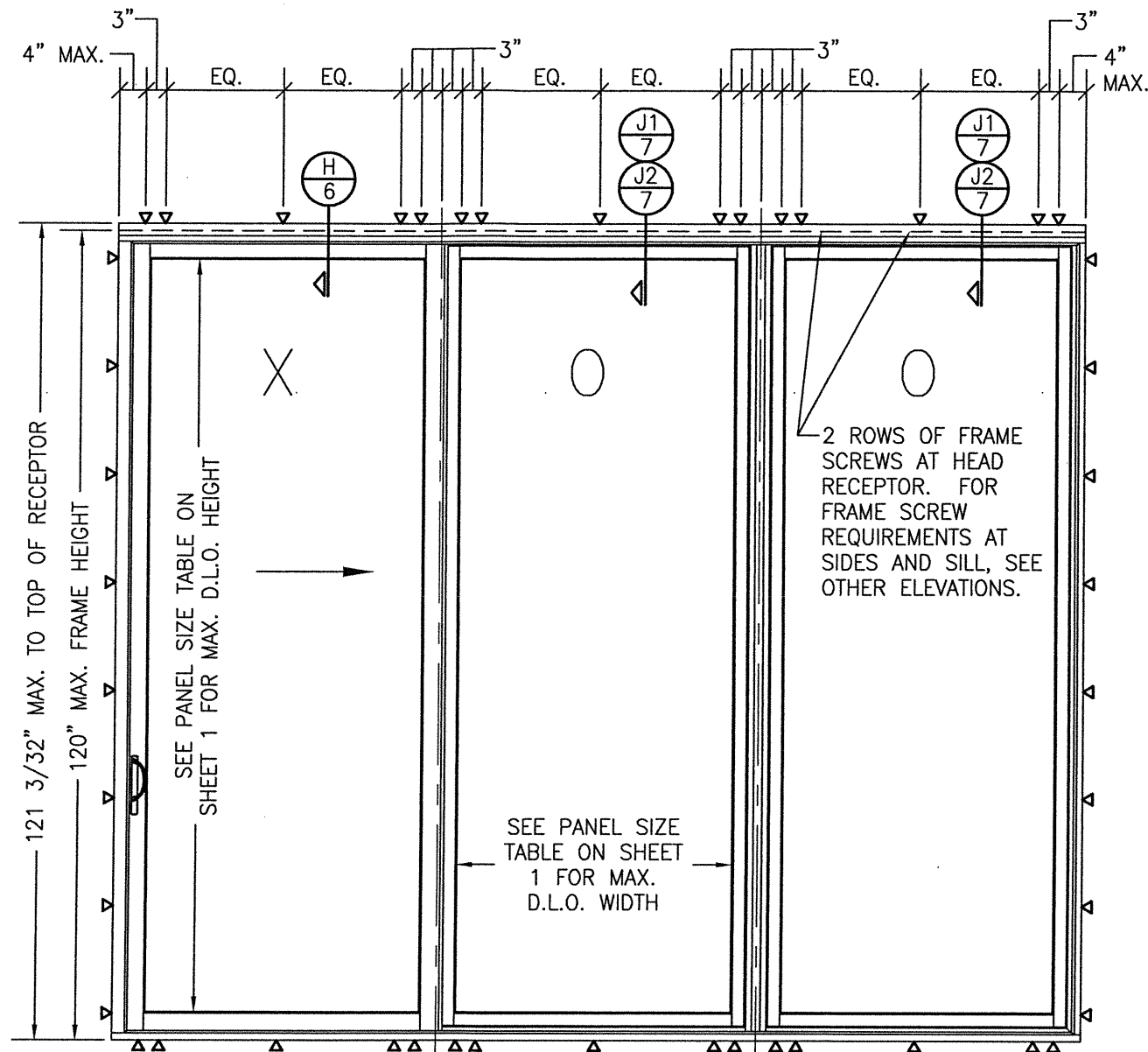
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PLOT: 1=24		DATE: 06/25/10	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE AA-3200-IR LOW PRESSURE SLIDING GLASS DOORS (LMI & SMI)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION FEB 09 2021 WARREN W. SCHAEFER, P.E. P.E. NO. 44133		DRAWING NO. 1707	
SHEET NO. 2 OF 10		REV. B	



EXTERIOR ELEVATION:
SINGLE-PANEL O DOOR WITHOUT HEAD RECEPTOR
 SCALE: 1/2" = 1'-0"

ELEVATION NOTES:

1. FIXED "O" PANELS SHOWN AS SASH GLAZED. DIRECT GLAZING TO FRAME ALSO APPLIES PER THE SECTIONS.
2. FOR HEAD RECEPTOR APPLICATION, SEE "XOO" ELEVATION ON THIS SHEET.
3. FOR APPLICABLE PANEL CONDITIONS AND "O"/"X" COMBINATIONS, SEE NOTATION ON SHEET 2.

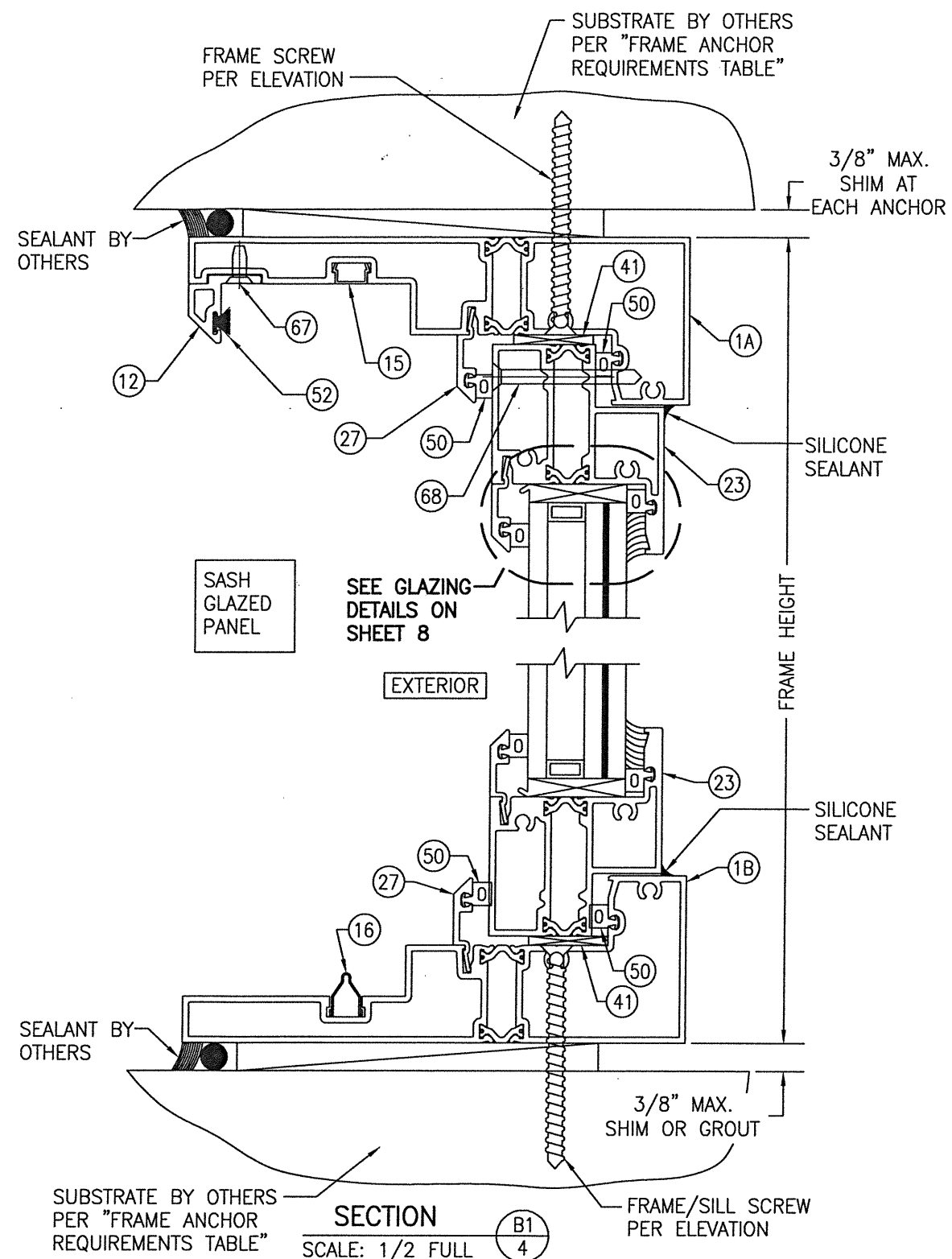
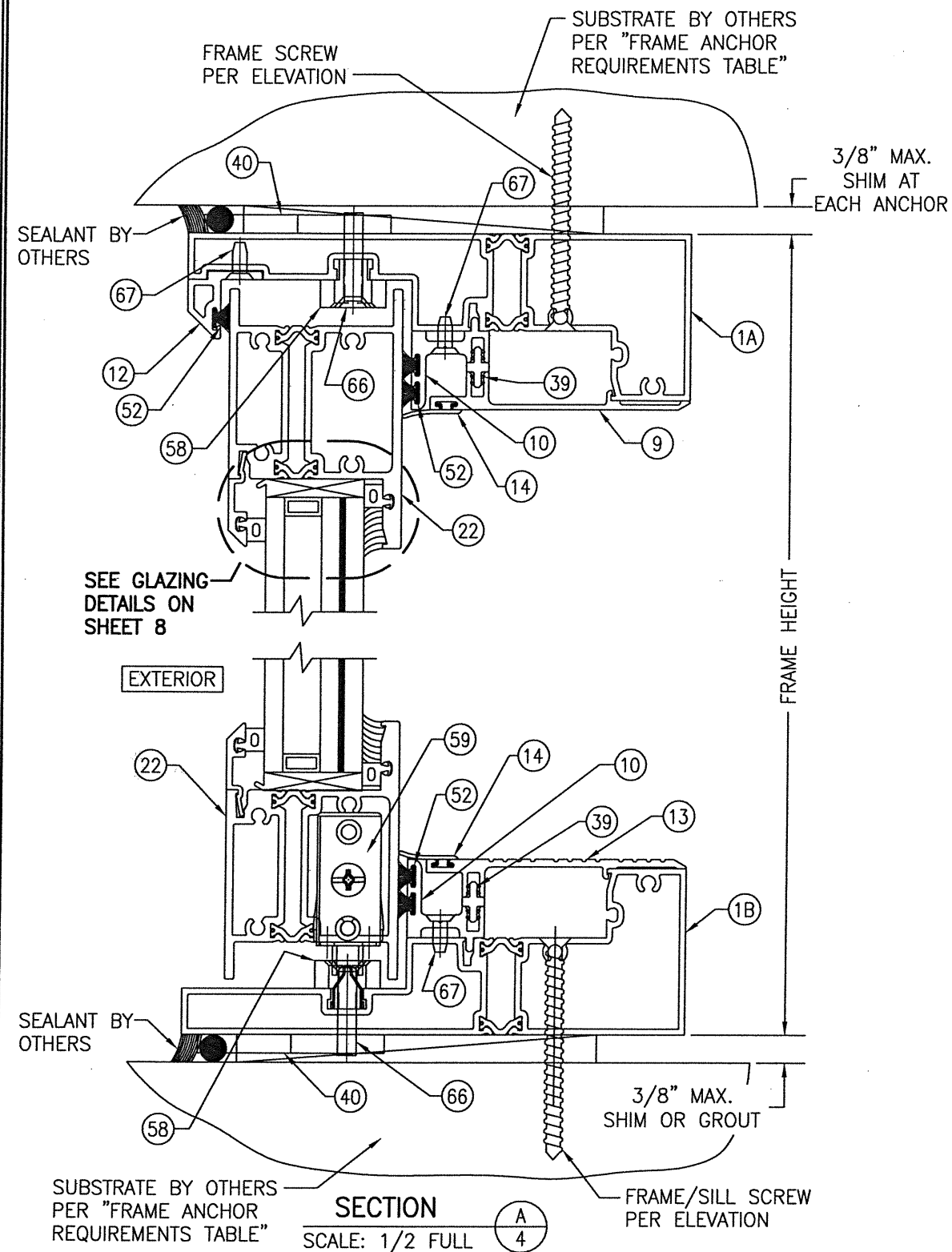


EXTERIOR ELEVATION:
3-PANEL XOO DOOR WITH HEAD RECEPTOR
 SCALE: 1/2" = 1'-0"

ELEVATION NOTES:

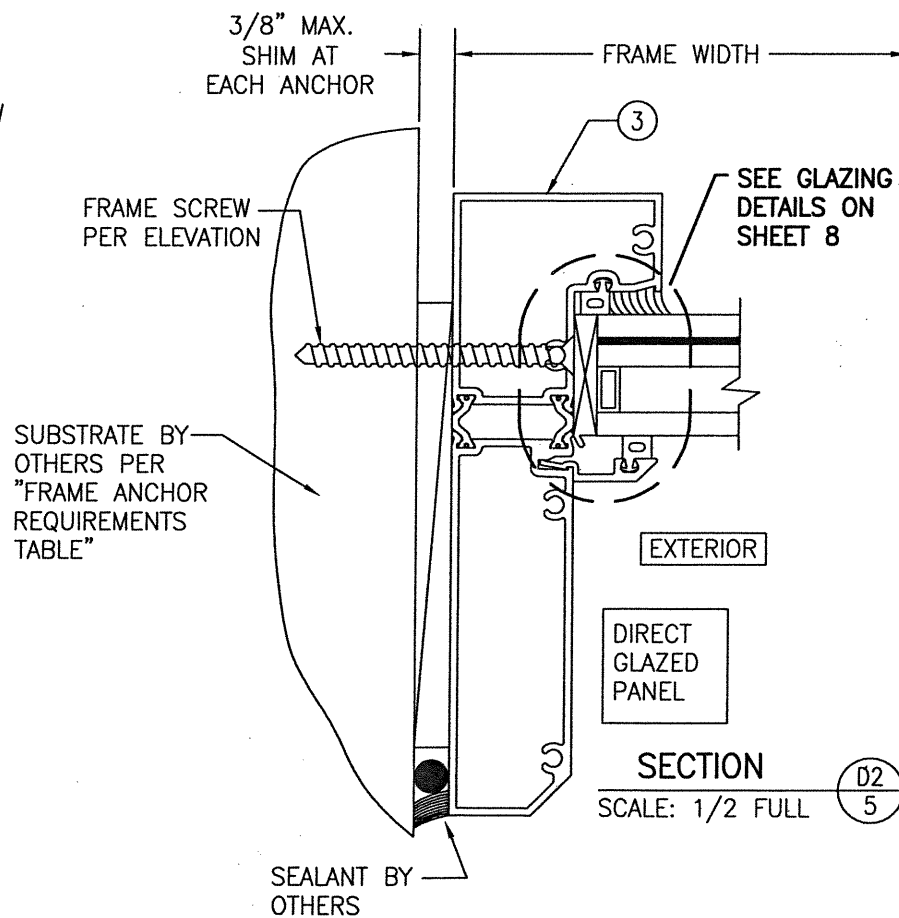
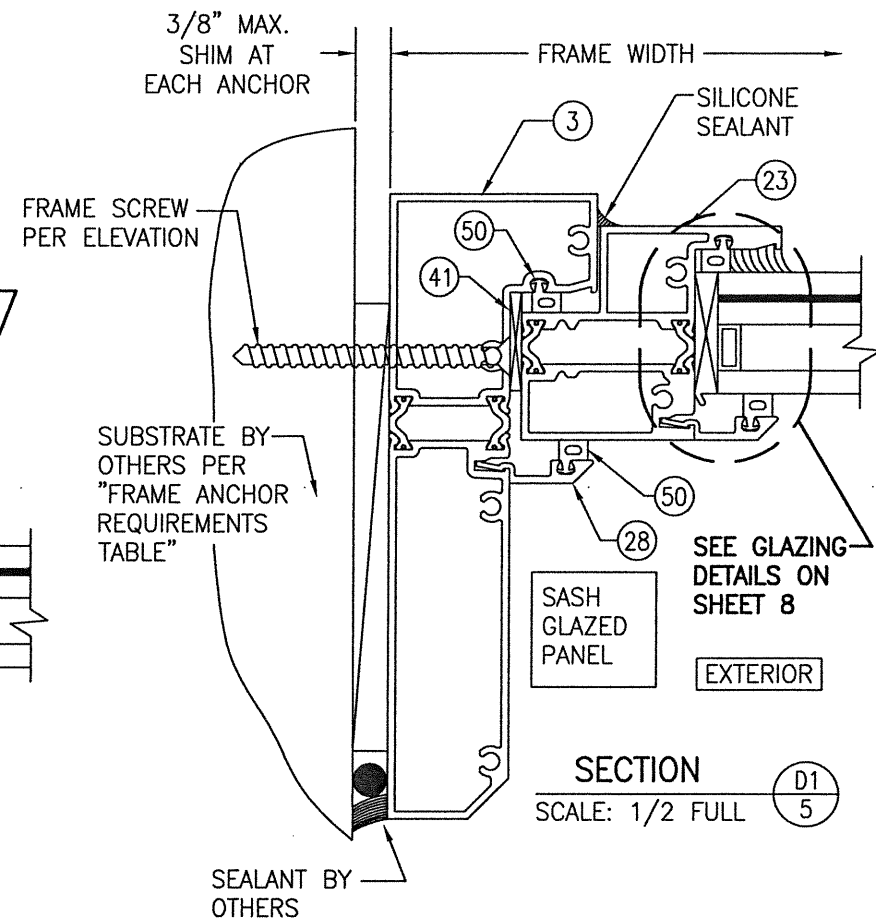
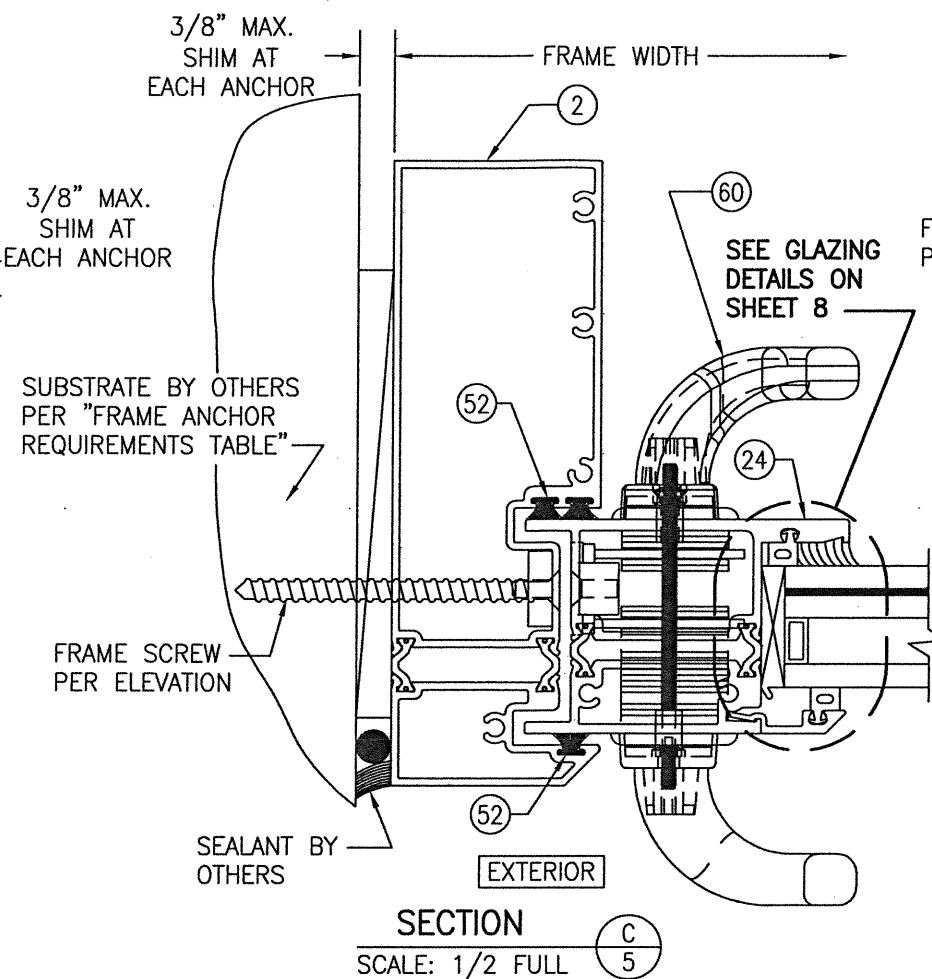
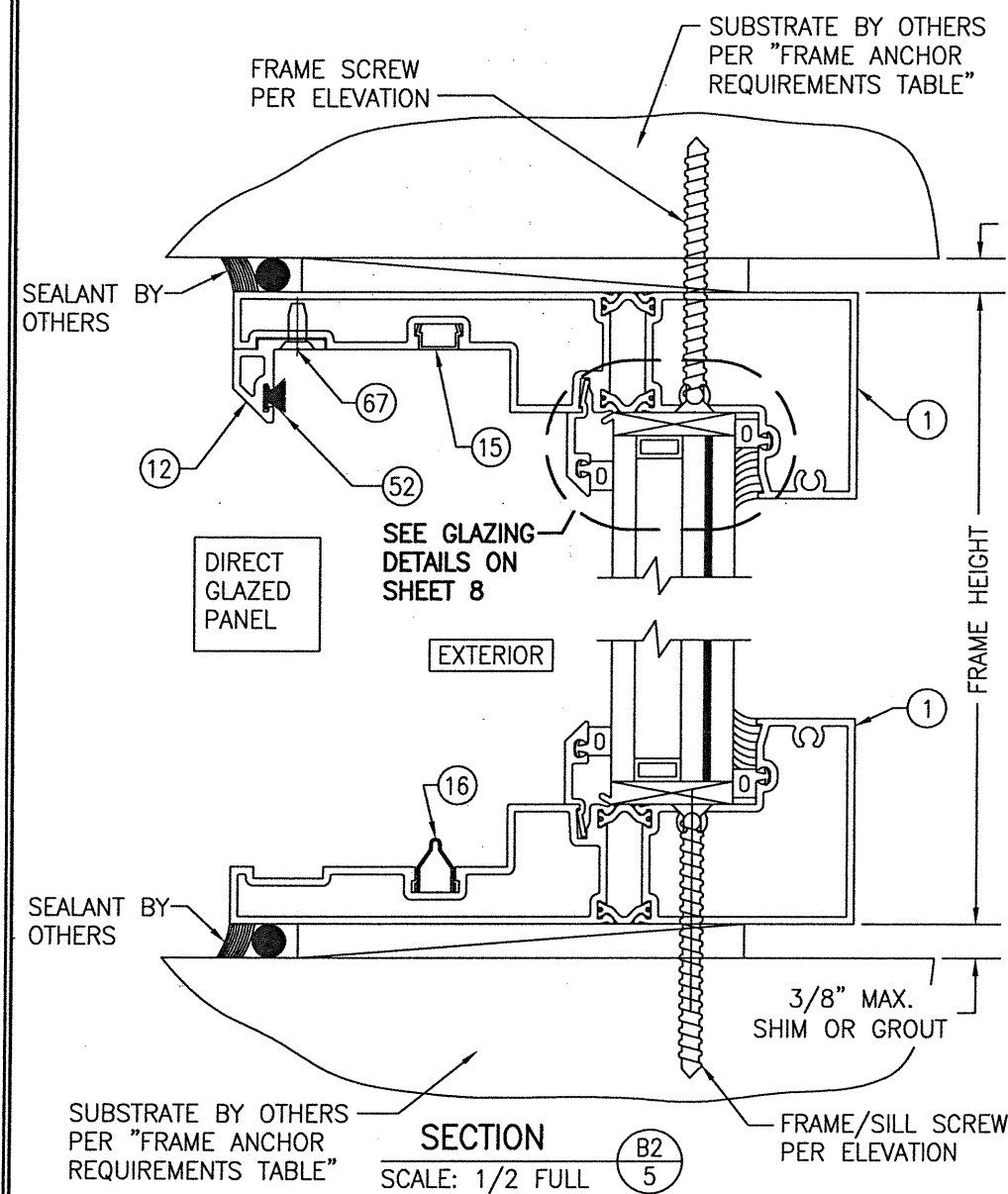
1. FIXED "O" PANELS SHOWN AS SASH GLAZED. DIRECT GLAZING TO FRAME ALSO APPLIES PER THE SECTIONS.
2. THIS ELEVATION IS SHOWN ONLY FOR THE PURPOSE OF DETAILING THE HEAD RECEPTOR & ITS INSTALLATION. FOR ALL OTHER DETAIL, SEE OTHER ELEVATIONS.
3. HEAD RECEPTOR IS APPLICABLE FOR USE WITH ALL DOOR CONFIGURATIONS.
4. FOR APPLICABLE PANEL CONDITIONS AND "O"/"X" COMBINATIONS, SEE NOTATION ON SHEET 2.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 06/25/10	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE AA-3200-IR LOW PRESSURE SLIDING GLASS DOORS (LMI & SMI)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH 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 FEB 09 2021 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1707	
SHEET NO. 3 OF 10		REV. B	



FRAME SCREW MOUNT SHOWN. SEE
DETAIL ON SHEET 8 FOR OPTIONAL
DIRECT MOUNT DETAIL.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 06/25/10	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE AA-3200-IR LOW PRESSURE SLIDING GLASS DOORS (LMI & SMI)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH 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 FEB 09 2021 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1707		REV. B	
SHEET NO. 4 OF 10			



FRAME SCREW MOUNT SHOWN. SEE
DETAIL ON SHEET 8 FOR OPTIONAL
DIRECT MOUNT DETAIL.

CERTIFICATION	DRAWING NO.
FEB 09 2021 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1707
SHEET NO.	REV.
5 OF 10	B

DRAWN BY:

W.W.S.

CHECKED BY:

W.W.S.

PLOT:

1=2

DATE:

06/25/10

DRAWING TITLE
AA-3200--IR LOW PRESSURE SLIDING GLASS DOORS (LMI & SMI)

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

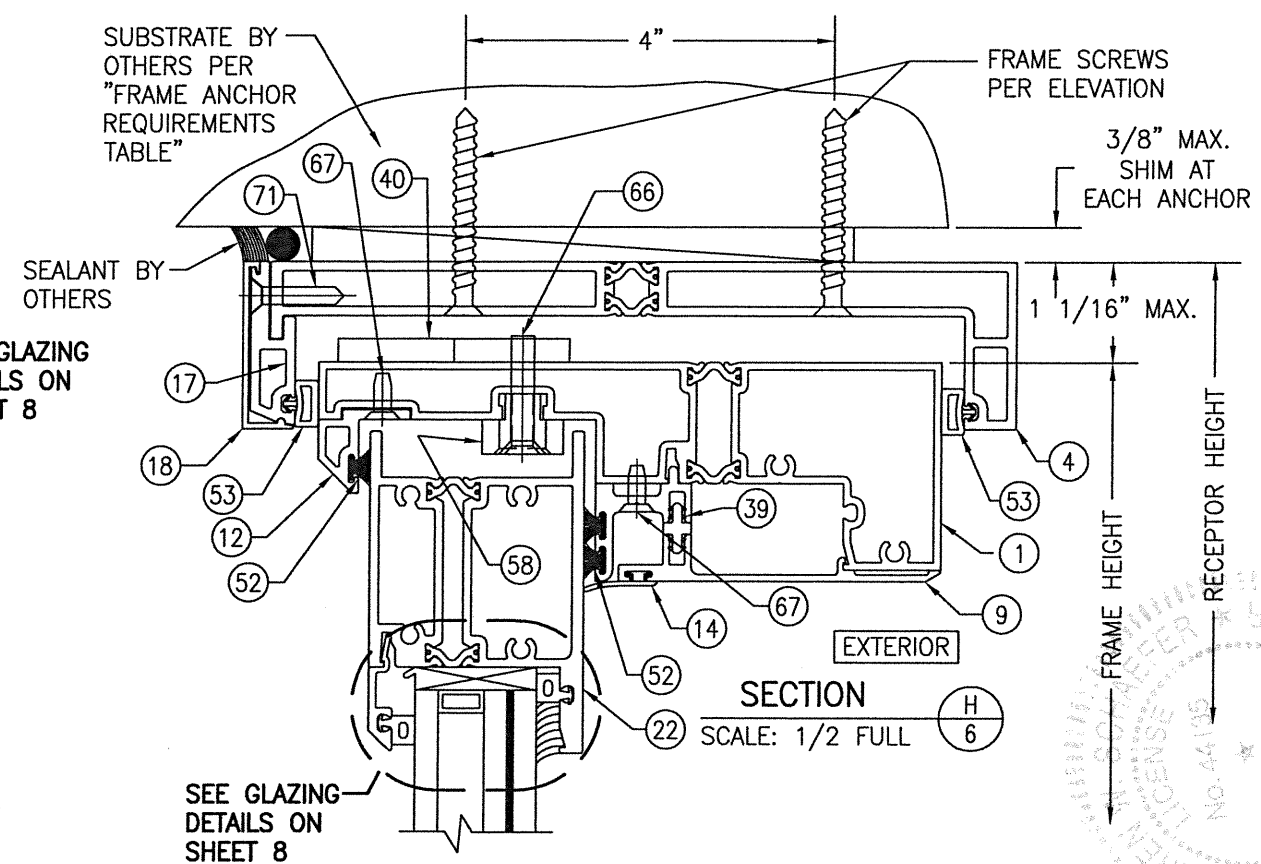
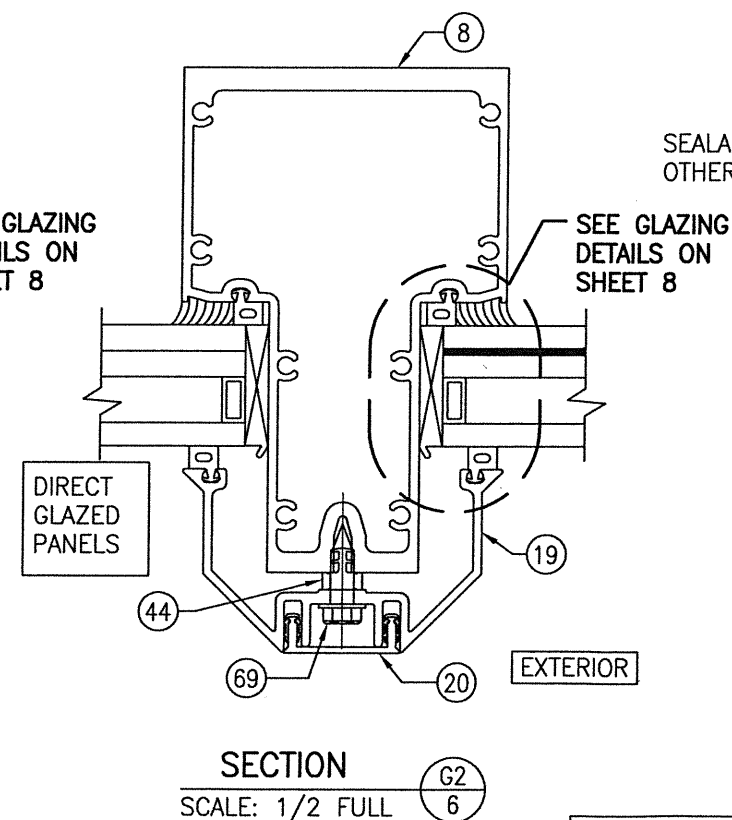
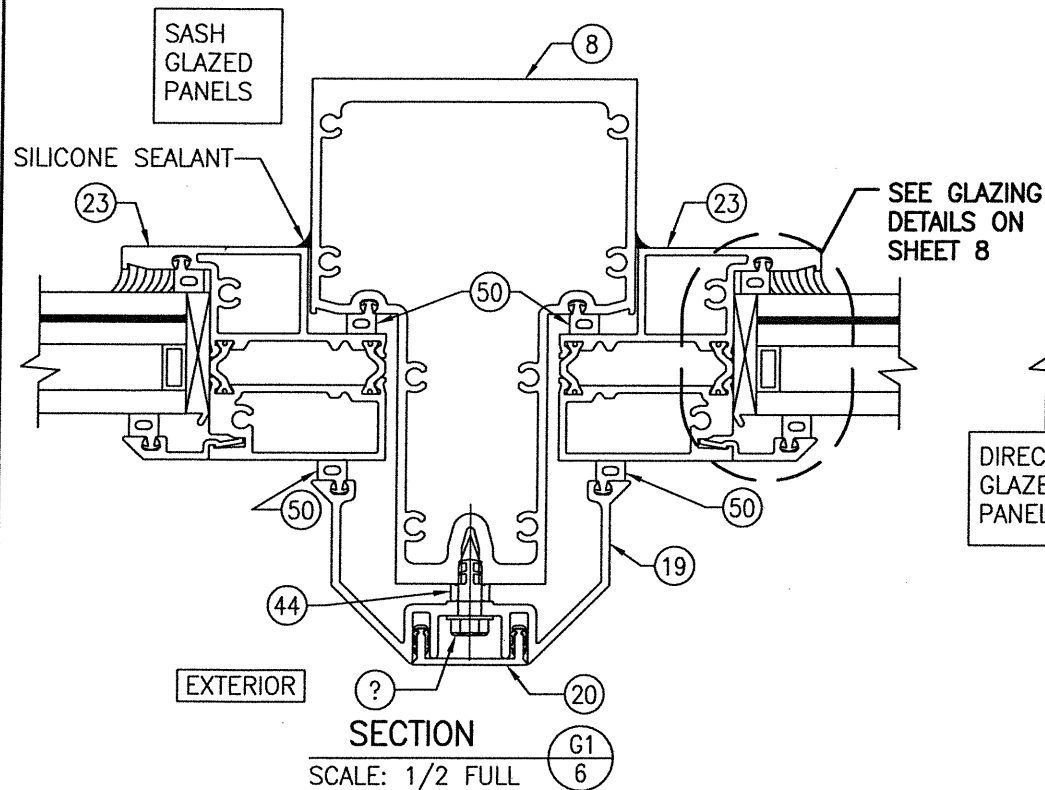
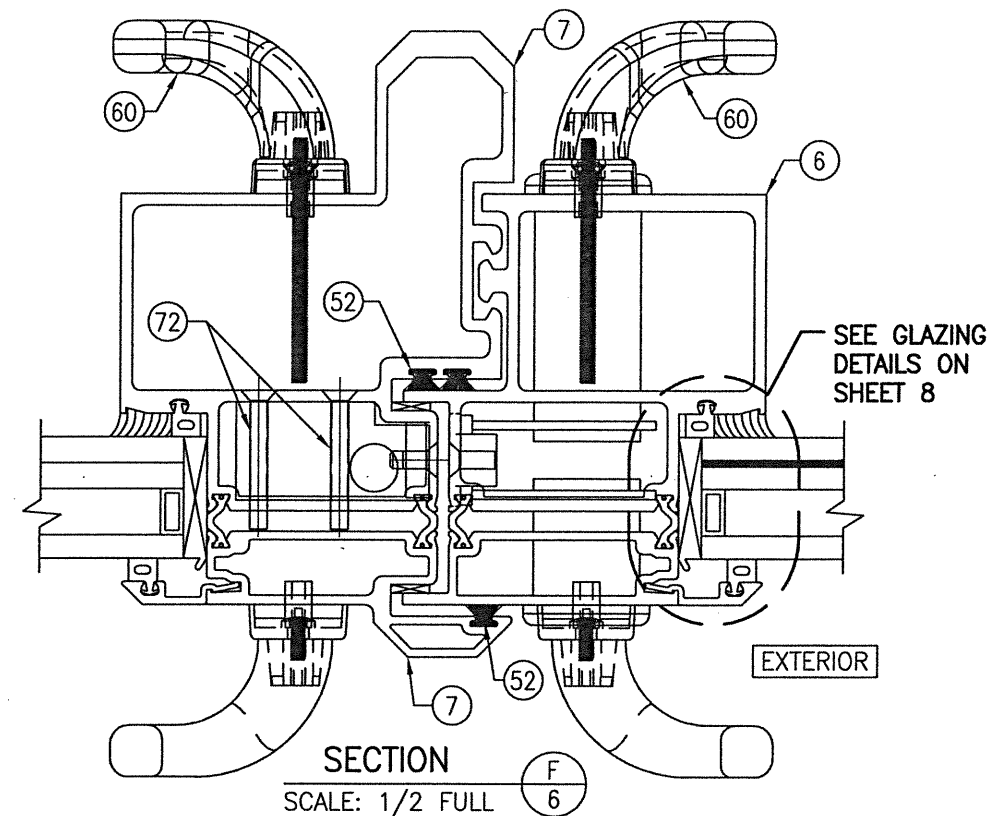
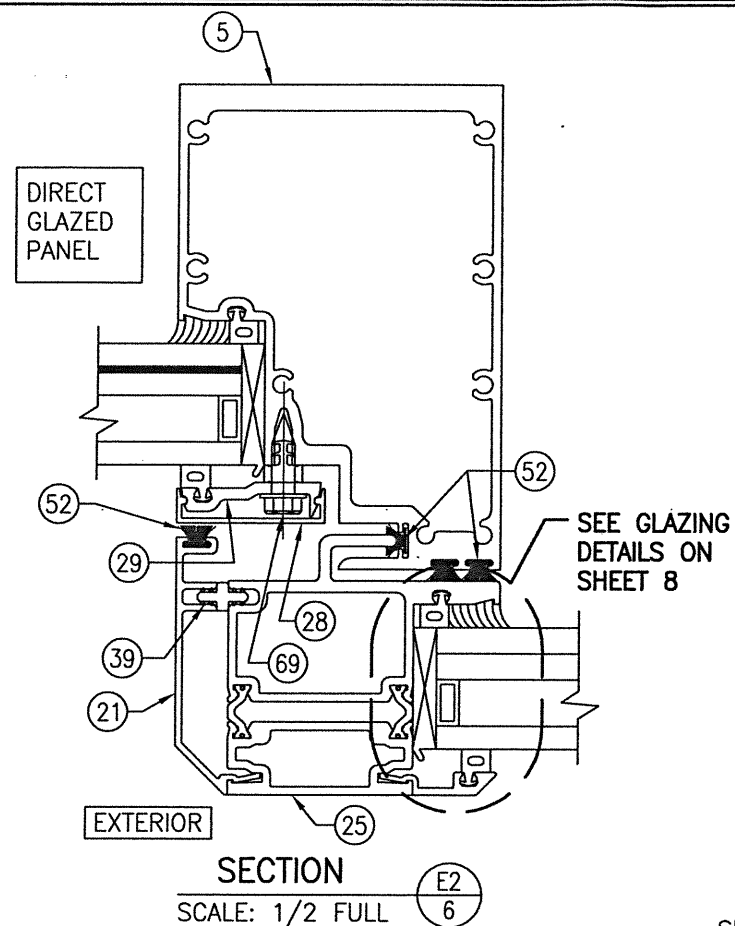
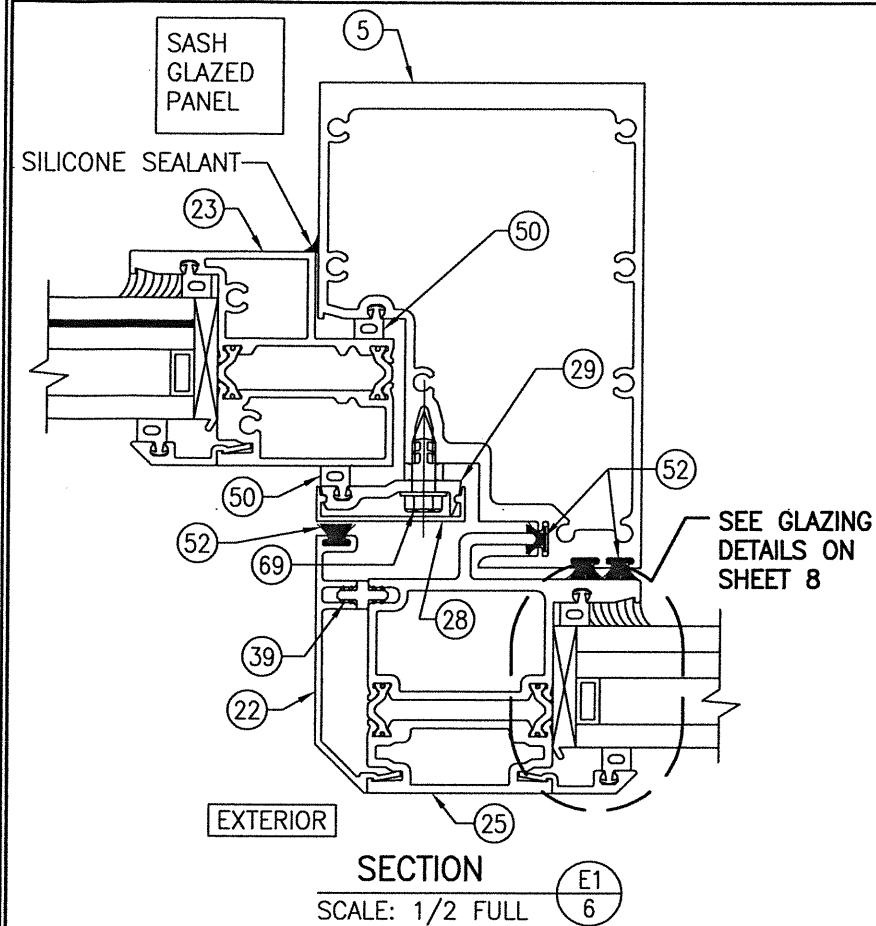
MANUFACTURER
KAWNEER COMPANY, INC.
 555 GUTHRIDGE COURT
 NORCROSS, GA 30092
 770-449-5555

NO.

REVISION DESCRIPTION

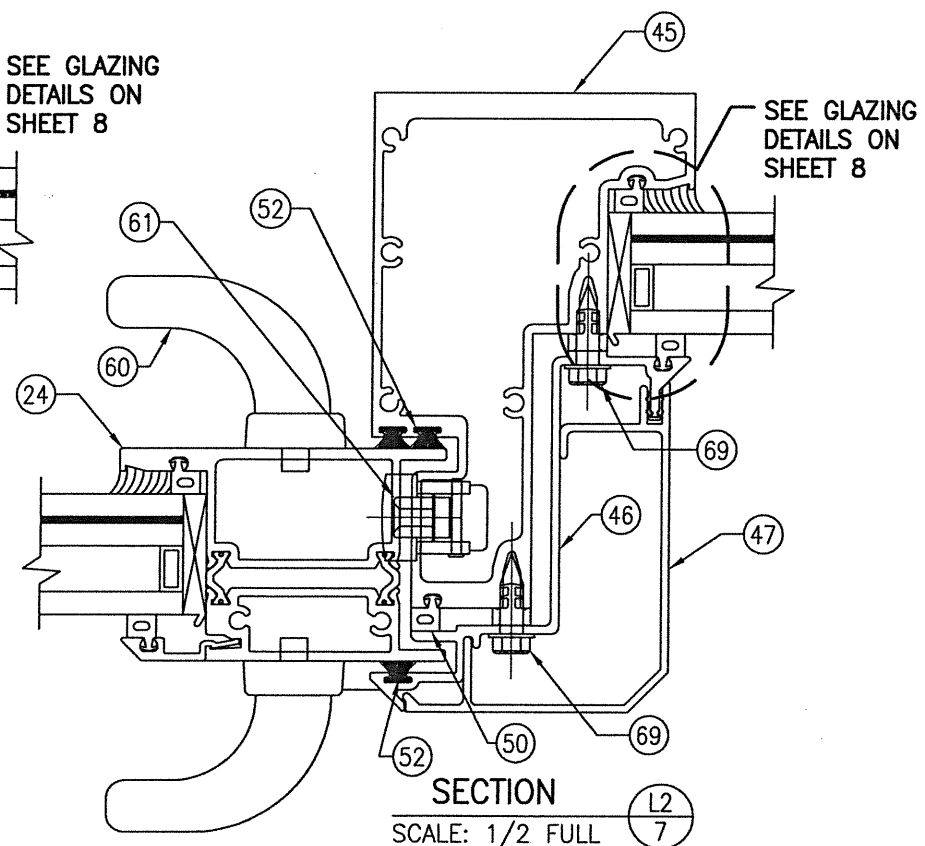
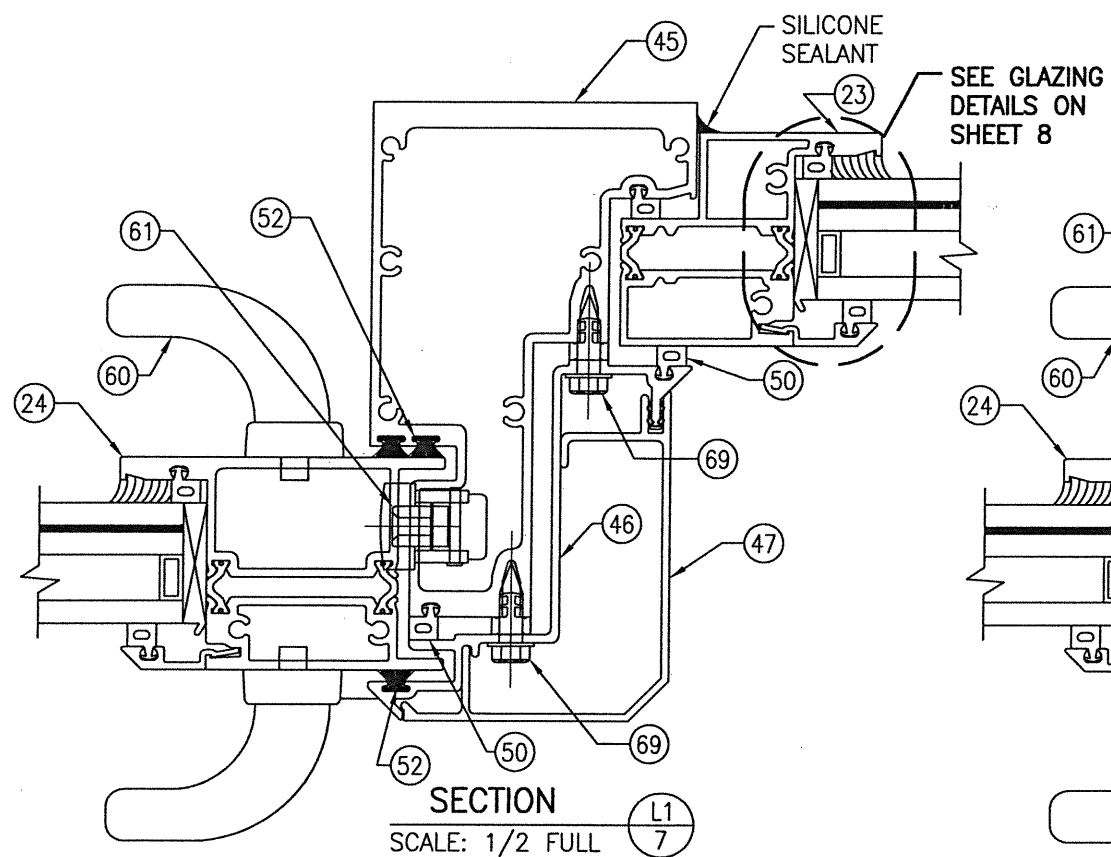
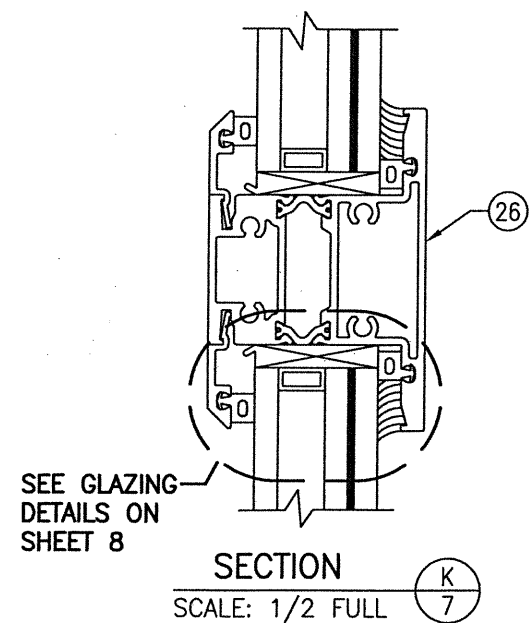
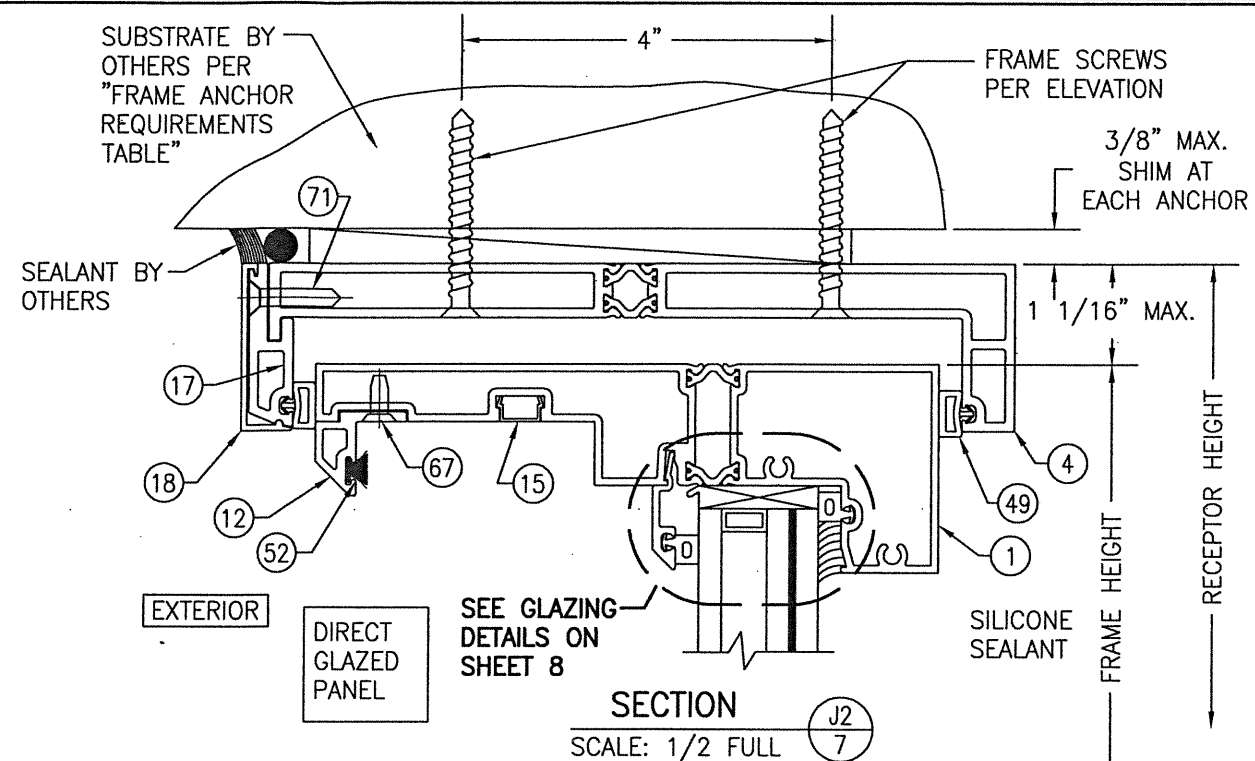
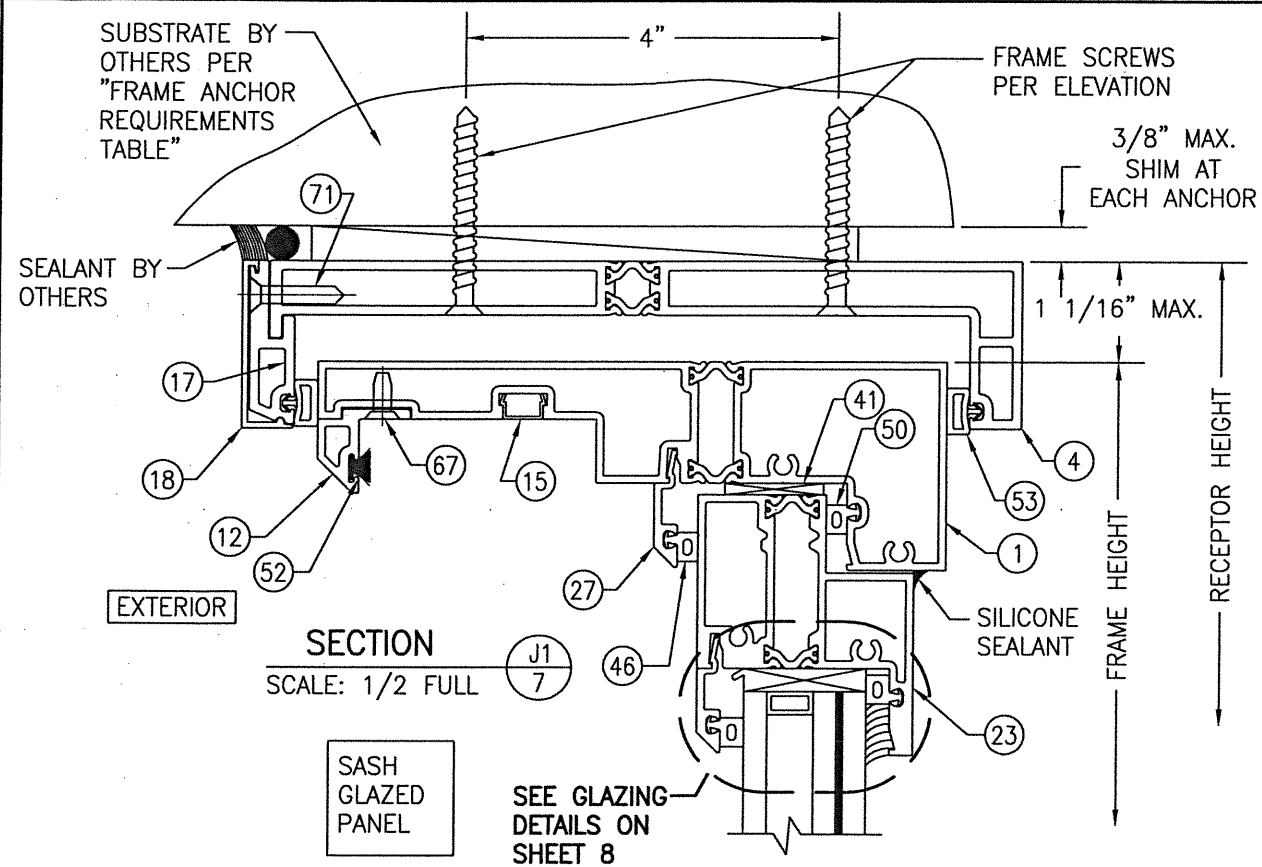
BY

DATE



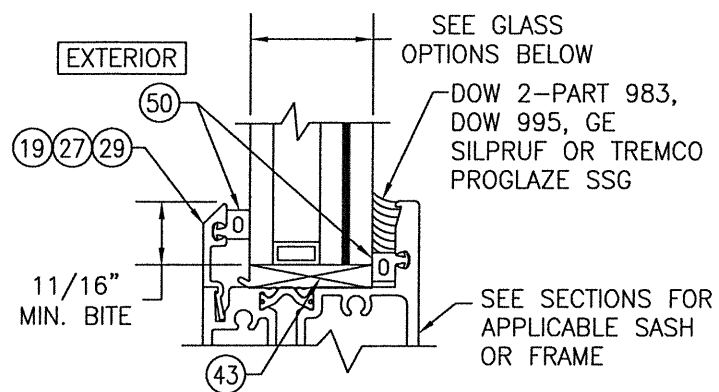
FRAME SCREW MOUNT SHOWN. SEE
DETAIL ON SHEET 8 FOR OPTIONAL
DIRECT MOUNT DETAIL.

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DRAWING NO. 1707	REV. B	SHEET NO. 7 OF 10	CERTIFICATION FEB 09 2021	DRAWING TITLE AA-3200-IR LOW PRESSURE SLIDING GLASS DOORS (LMI & SMI)	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	NO.	REVISION DESCRIPTION	BY	DATE	DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
											1=2	DATE: 06/25/10

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 06/25/10	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE AA-3200-IR LOW PRESSURE SLIDING GLASS DOORS (LMI & SMI)		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		CERTIFICATION FEB 09 2021 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1707		REV. B	
SHEET NO. 8		OF 10	

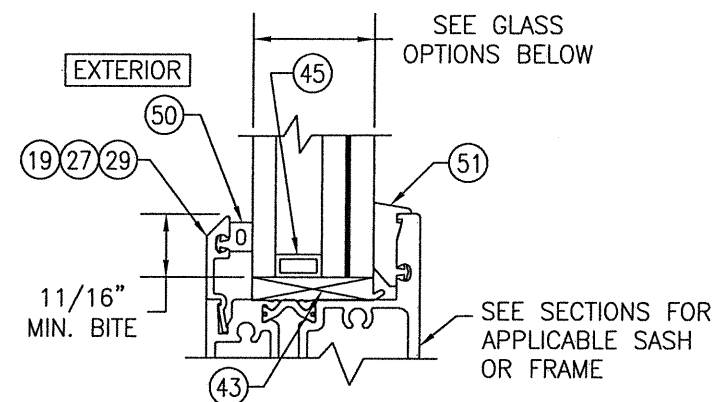


**TYPICAL GLAZING DETAIL
(L.M.I. WET GLAZED)**

GLASS OPTIONS:

- OPTION 1: 1 5/16" I.G. WITH 1/4" TEMPERED OUTBOARD, 1/2" AIR SPACE & LAMINATED 1/4" HS/0.077" EASTMAN CHEM. CO. SAFLEX STORM/1/4" HS INBOARD
- OPTION 2: 1 5/16" I.G. WITH 1/4" TEMPERED OUTBOARD, 1/2" AIR SPACE & LAMINATED 1/4" HS/0.09" KURARAY SG/1/4" HS INBOARD
- OPTION 3: 1 5/16" I.G. WITH 1/4" TEMPERED OUTBOARD, 1/2" AIR SPACE & LAMINATED 1/4" HS/0.10" EASTMAN CHEM. CO. SAFLEX HP/1/4" HS INBOARD
- OPTION 4: 1 5/16" I.G. WITH 1/4" TEMPERED OUTBOARD, 1/2" AIR SPACE & LAMINATED 1/4" HS/0.12" UVEKOL/1/4" HS INBOARD
- OPTION 5: 1 5/16" I.G. WITH 1/4" TEMPERED OUTBOARD, 1/2" AIR SPACE & LAMINATED 1/4" HS/0.09 KURARAY PVB/1/4" HS INBOARD

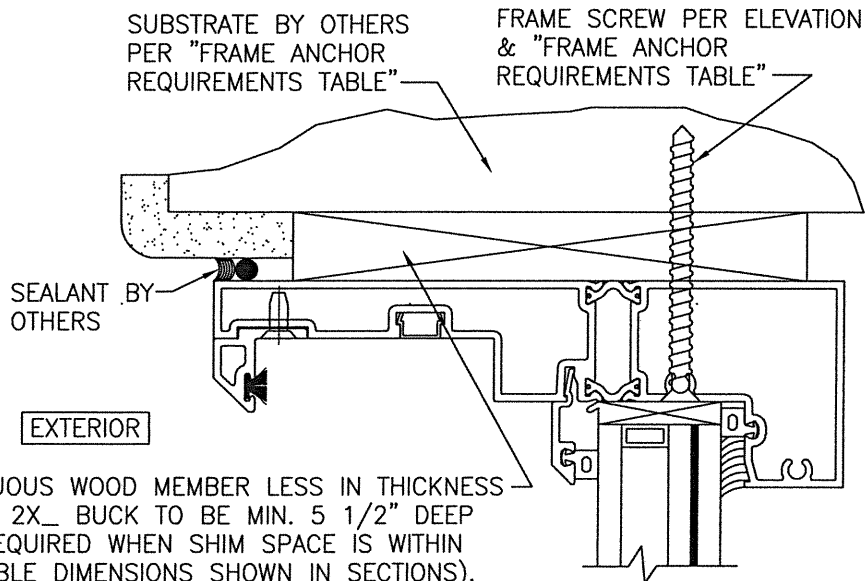
**L.M.I. = LARGE MISSILE IMPACT
S.M.I. = SMALL MISSILE IMPACT**



**TYPICAL GLAZING DETAIL
(S.M.I. DRY GLAZED)**

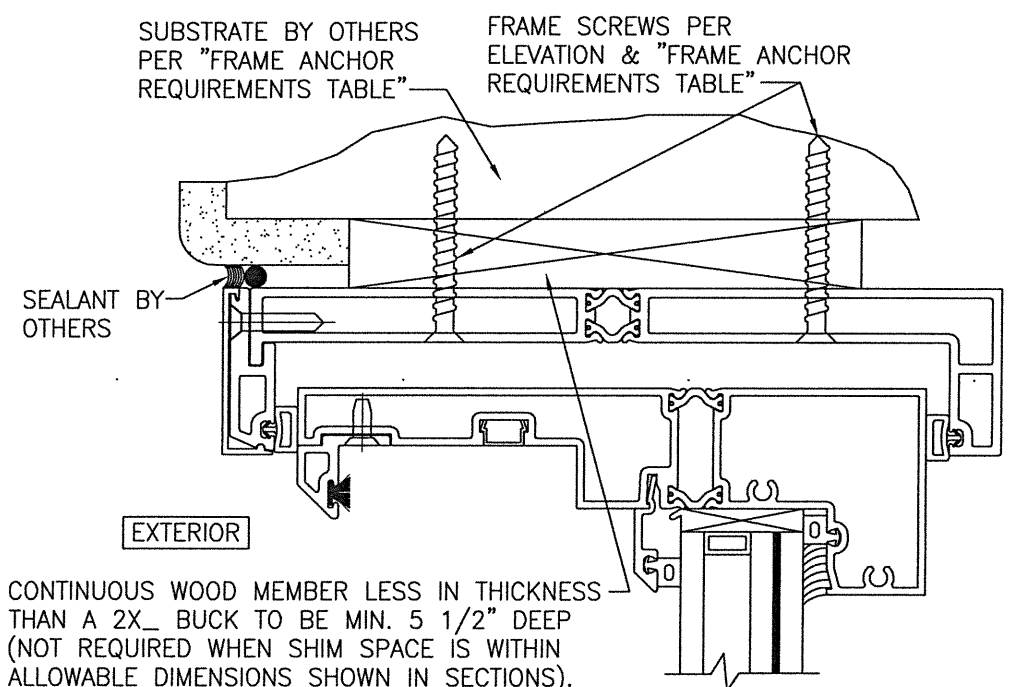
GLASS OPTIONS:

- OPTION 6: 1 5/16" I.G. WITH 1/4" TEMP OUTBOARD, 1/2" AIR SPACE & LAMINATED 1/4" HS/0.06" EASTMAN CHEM. CO. SAFLEX/1/4" HS INBOARD
- OPTION 7: 1 5/16" I.G. WITH 1/4" TEMP OUTBOARD, 1/2" AIR SPACE & LAMINATED 1/4" HS/0.06" KURARAY BUTACITE PVB/1/4" HS INBOARD



**OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER
(NO HEAD RECEPTOR)**

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



**OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER
(WITH HEAD RECEPTOR)**

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

