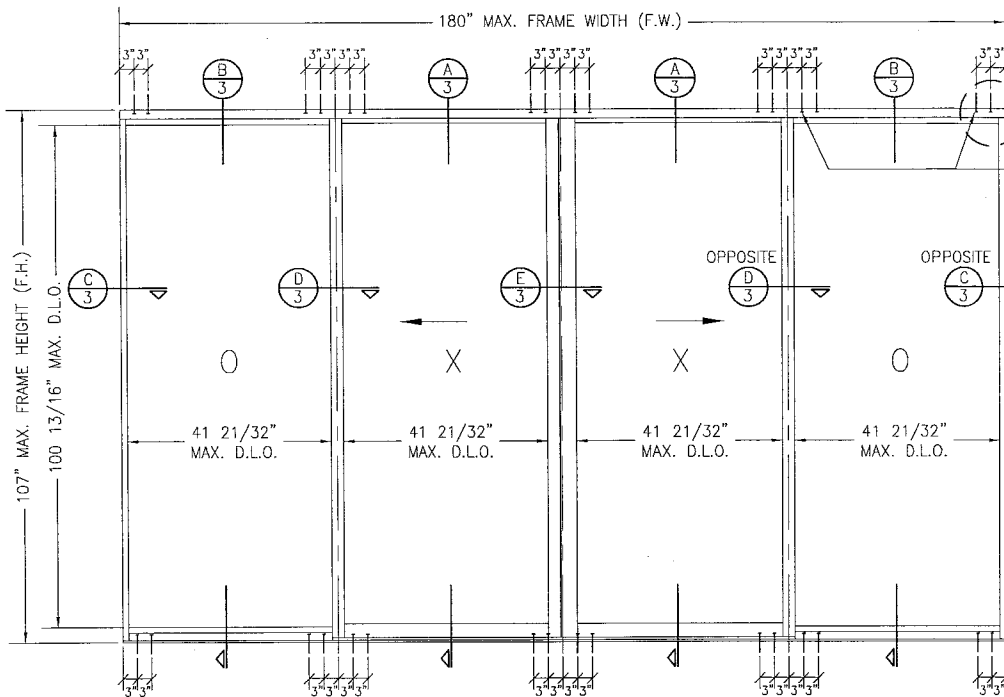




EXTERIOR ELEVATION
4-PANEL SLIDING GLASS DOOR

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

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 SMALL MISSILE IMPACT RATED.
5. 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. 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.

FRAME ANCHOR REQUIREMENTS TABLE

ANCHOR NUMBER	OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
1	MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	(1) 1/4" CONCRETE SCREW	1 3/8"	3/4"
2	(3) MIN. 16 GA. 50 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
3	MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
4	MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
5	MIN. 3000 PSI CONCRETE	(2) 3/8" WEDGE/SLEEVE ANCHOR	3"	2 1/2"

(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) WEDGE/SLEEVE ANCHORS SHALL BE ITW RAMSET RED HEAD DYNABOLT, HILTI KWIK BOLT 3 OR POWERS RAWL POWER-BOLT (STEEL OR S.S.).

(3) STUD MAY BE REDUCED TO 33 KSI 18 GAGE PROVIDING A MIN. 2X4 WOOD BACKER IS PLACED BEHIND THE STUD AND THE ANCHORS PENETRATE THE BACKER MIN. 1 1/4" (WOOD BACKER MUST BE FULL LENGTH OF OPENING WITH ANY NECESSARY SPLICE JOINTS BEING POSITIONED AT LEAST 4" AWAY FROM ANY ANCHOR.).

MASONRY OPENING NOTE: SIDES DO NOT SUPPORT THESE DOORS AND MAY BE CMU. HEAD & SILL MUST BE CONCRETE PER THE BELOW TABLE.

SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET

ALLOWABLE DESIGN PRESSURE
+/-95 PSF
SMALL MISSILE IMPACT RATED

FRAME ANCHORS POSITIONED WHERE SHOWN AT HEAD & SILL ONLY. SEE "ANCHOR REQUIREMENTS TABLE ON THIS SHEET FOR ANCHOR REQUIREMENTS (TWO(2) ROWS DEEP OF ANCHORS AT EACH LOCATION SHOWN WITH ANCHORS NO. 1 THROUGH 4; ONE(1) ROW DEEP WITH ANCHOR NO. 5).

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 CORNERS:

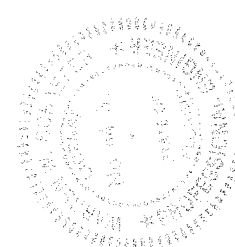
THE JAMB WAS SQUARE CUT AT THE ENDS AND INSERTED BETWEEN THE ADJOINING HEAD TRACK AND SILL TRACK RECEPTOR. THE HEAD TRACK & SILL TRACK RECEPTOR WERE MECHANICALLY ATTACHED TO THE JAMBS USING TWO(2) NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS PER END. EACH CORNER IS SEALED WITH DOW 795 SEALANT.

FIXED INTERLOCK ATTACHMENT:

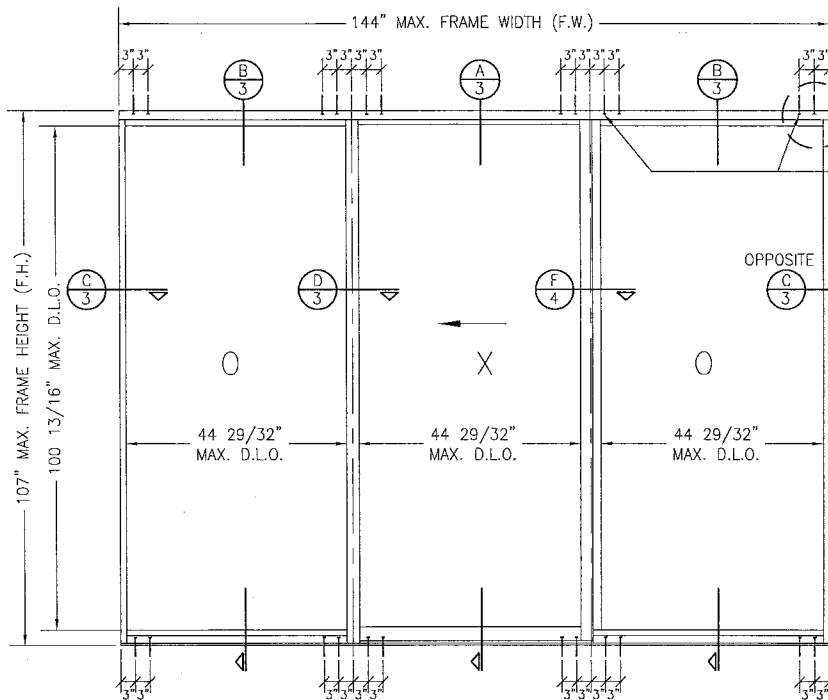
SQUARE CUT AT ENDS & INSERTED BETWEEN THE ADJOINING HEAD TRACK AND SILL TRACK RECEPTOR. THE RECEPTORS ARE MECHANICALLY ATTACHED TO THE FIXED INTERLOCK WITH 3 NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS. ENDS ARE SEALED WITH DOW 795 SEALANT.

PANEL CORNERS:

THE TOP & BOTTOM RAILS WERE SQUARE CUT, NOTCHED & BUTTED TO THE ADJACENT INTERLOCK STILE & LOCK OR LATCH STILE. THE INTERLOCK STILE & LOCK OR LATCH STILE WERE MECHANICALLY ATTACHED TO THE ADJACENT RAILS USING 2 NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS PER CORNER. NOTE THAT THERE IS A 3/16" THICK STEEL BACKUP PLATE USED AT EACH OPERABLE PANEL CORNER ASSEMBLY. EACH CORNER IS SEALED WITH DOW 795 SEALANT.



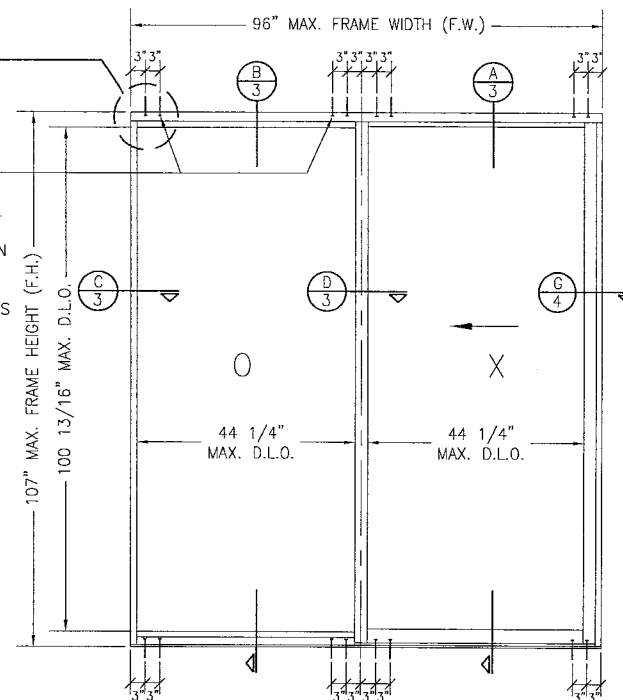
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 02/15/05	
NO.	REVISION DESCRIPTION	DATE	BY
A1	UPDATE TO CURRENT STANDARDS	03/28/11	W.W.S.
A2	ADD REINFORCING GLASS	03/28/11	W.W.S.
B1	CHANGE TO STATE APPROVAL	01/05/10	W.W.S.
DRAWING TITLE: HPS SMALL MISSILE IMPACT SLIDING GLASS DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 8809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH, SUITE 111, PALM BEACH, FL 33418		555 GUTHRIE COURT, NORCROSS, GA 30092	
PHONE: 561-744-3424		770-449-5555	
CERTIFICATION: JAN 05 2016			
DRAWING NO. 1451			
REV. B			
SHEET NO. 1 OF 5			



EXTERIOR ELEVATION
3-PANEL SLIDING GLASS DOOR
SCALE: 1/2"=1'-0"

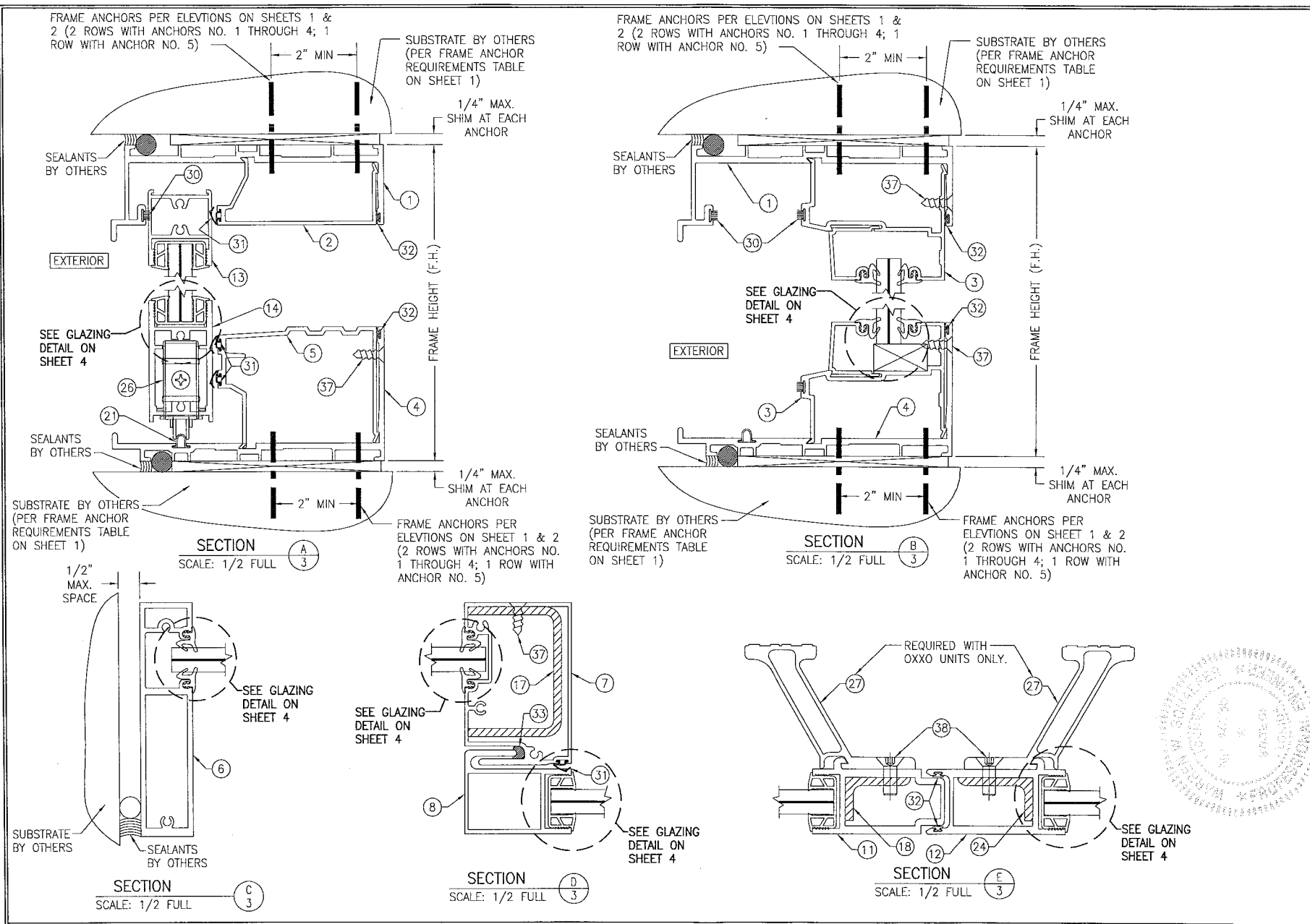
SEE "CORNER
CONSTRUCTION"
DESCRIPTION ON
THIS SHEET

FRAME ANCHORS
POSITIONED WHERE
SHOWN AT HEAD & SILL
ONLY. SEE "ANCHOR
REQUIREMENTS TABLE ON
SHEET 1 FOR ANCHOR
REQUIREMENTS (TWO(2)
ROWS DEEP OF ANCHORS
AT EACH LOCATION
SHOWN WITH ANCHORS
NO. 1 THROUGH 4;
ONE(1) ROW DEEP WITH
ANCHOR NO. 5).

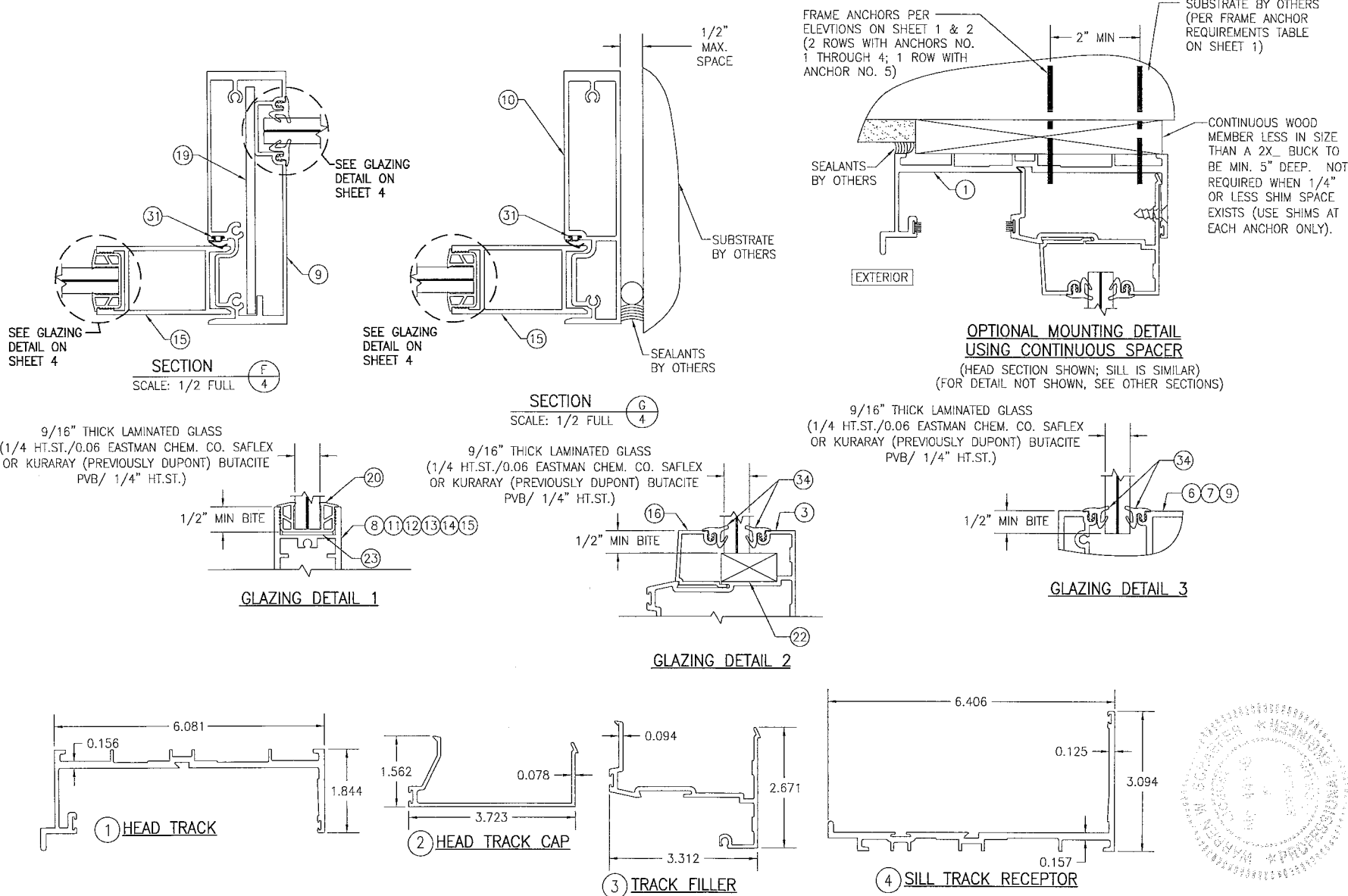


EXTERIOR ELEVATION
2-PANEL SLIDING GLASS DOOR
SCALE: 1/2"=1'-0"

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 06/15/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: HPS SMALL MISSILE IMPACT SLIDING GLASS DOOR CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 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		JAN 05 2016 W. W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1451		REV. B	
SHEET NO. 2		OF 5	



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PLOT: 1=2		DATE: 09/15/05	
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DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLT: 1-24	DATE: 05/15/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE	HPS SMALL MISSILE IMPACT SLIDING GLASS DOOR
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 8809)
MANUFACTURER	KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555
CERTIFICATION	JAN 05 2016 W. W. SCHAEFER, P.E. P.E. NO. 44155
DRAWING NO.	1451
REV.	B
SHEET NO.	4 OF 5

