

GENERAL NOTES:

1. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z) OR OUT OF IT. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 & 1609 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING IN WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.

THIS WINDOW'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY REPORT # 5807 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE. GLASS HAS BEEN VERIFIED PER ASTM E-1300, PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE.

2. MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THIS WINDOW SHALL BE AS SHOWN ON SHEET 4 (SCHEDULE #1).

3. THIS SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

4. THIS SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT IS APPROVED FOR AIR AND WATER INFILTRATION (SEE SCHEDULE #1 ON SHEET 4).

5. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH Fy= 25.0 ksi MINIMUM. THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

6. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTIONS 2411.3.3.3 & 2411.3.3.4.

7. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE #2, G=0.55. AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2411.3.3.4 OF THE FLORIDA BUILDING CODE.

(7.1) 2 x WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF WINDOW FRAME ANCHORAGE. WINDOW FRAME MUST BE SEPARATELY ANCHORED TO 2 x WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.

(7.2) 1 x WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. WINDOW FRAME ANCHOR SHALL BE USED TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH WINDOW FRAME & 1 x WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.

(7.3) WINDOW FRAME MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED OF WOOD BUCKS WHEN MASONRY OPENING IS NOT LARGER THAN ACTUAL WINDOW OVERALL DIMENSIONS. HOWEVER, SHIMS (SEE NOTE 9) MAY BE ALLOWED AT WINDOW FRAME ANCHOR LOCATION IF NEEDED.

8. ANCHOR NOTES: EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.

(A) TO EXISTING POURED CONCRETE: (MIN. f'c = 3192 psi), MIN. EDGE DISTANCE (E.D.) = 2 1/2".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22), THRU 1" P.T. WOOD BUCK.

(B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) = 2 1/2".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22), THRU 1" P.T. WOOD BUCK.

(C) TO EXISTING 2xP.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1".
- 1/4"Ø-14 TEK SCREW ANCHORS OR 1/4"Ø TAPCON ANCHORS W/ 1 1/2" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 23).

(D) TO EXISTING MIN. 1/8" THICK ALUMINUM TUBE (6063-T5 ALLOY) MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 23).

(E) TO EXISTING MIN. 12 GAGE STEEL MEMBER (ASTM A-500, A-653 OR A-36) MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 23).

9. PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE (TYP.).

10. REMAINING COMPONENTS FOR THIS ALUMINUM SINGLE HUNG WINDOW SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.

11. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.9.3 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

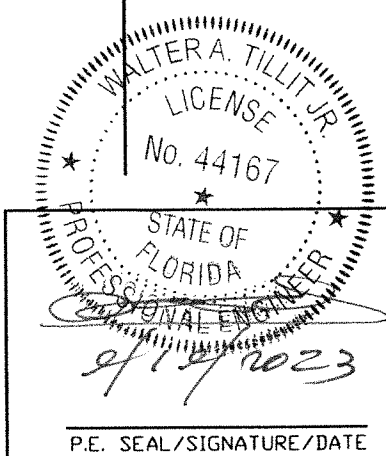
12. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

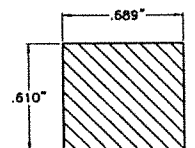
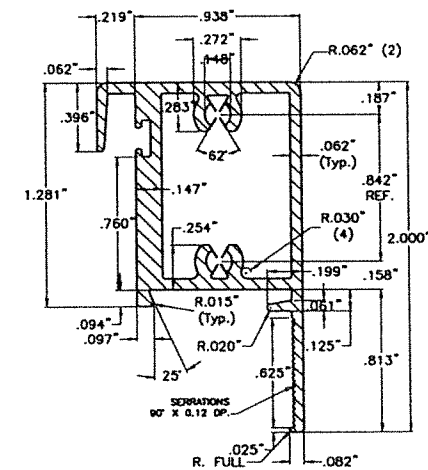
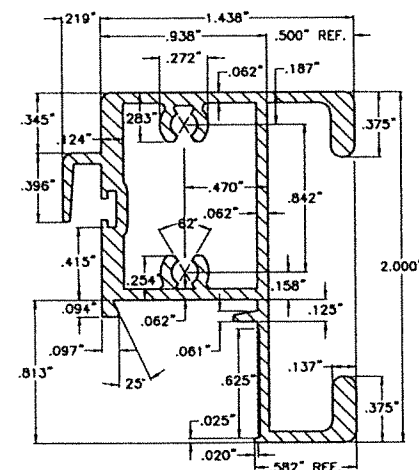
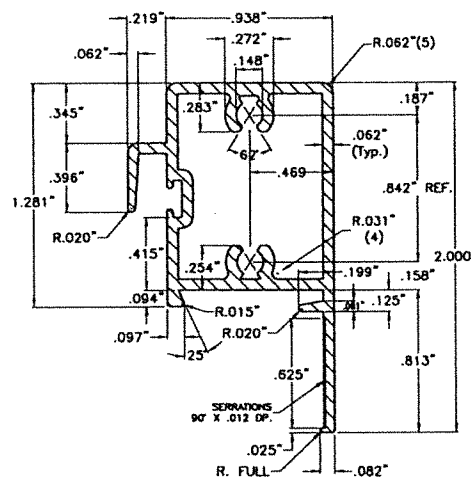
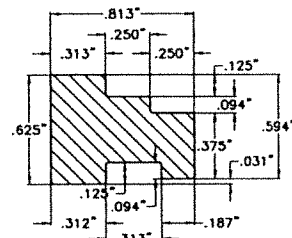
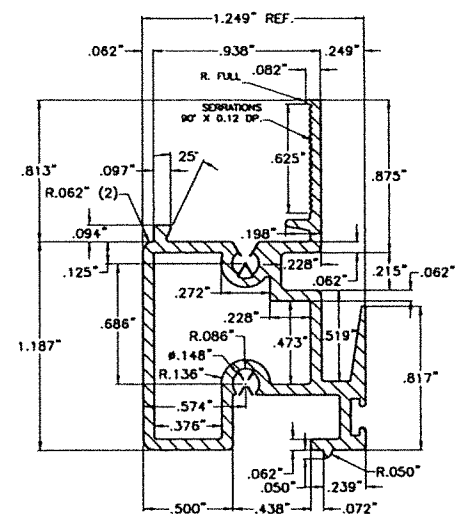
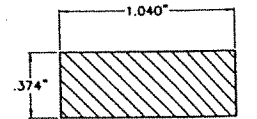
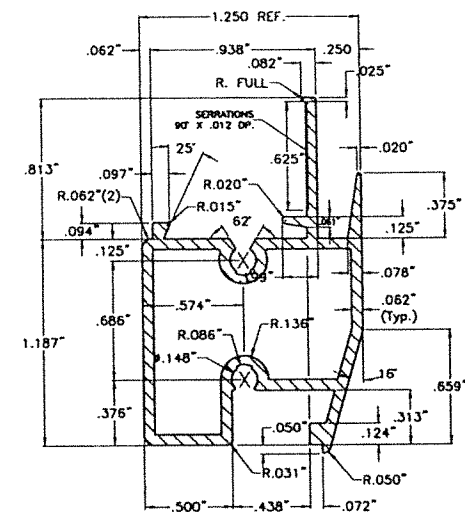
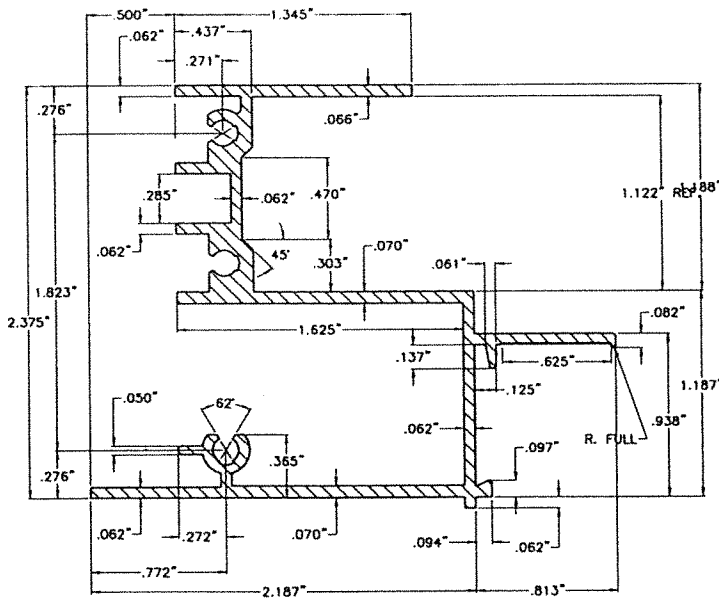
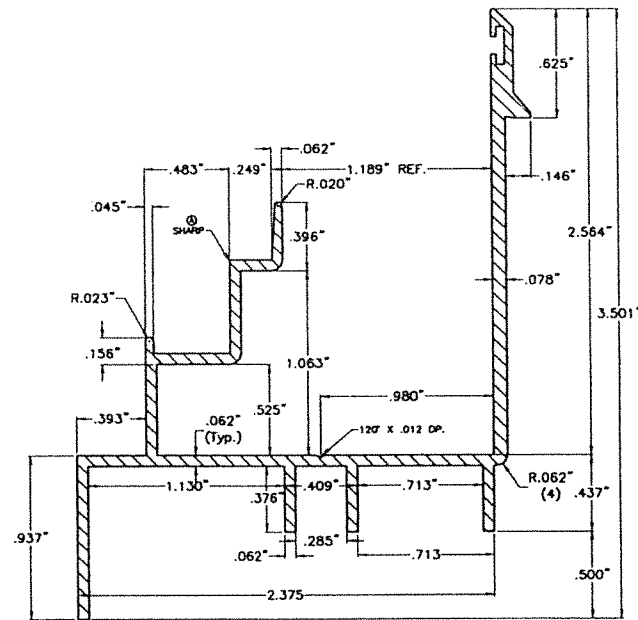
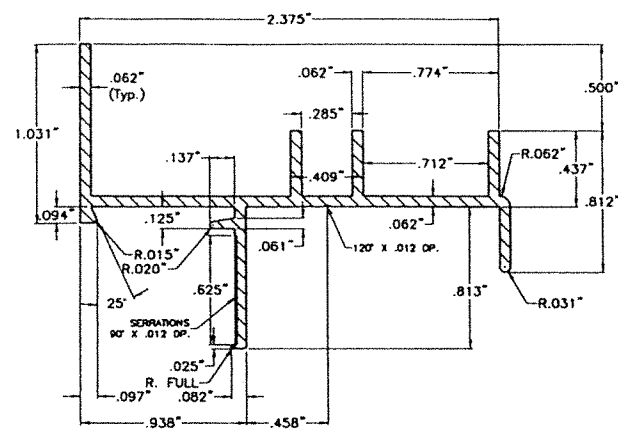
(c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

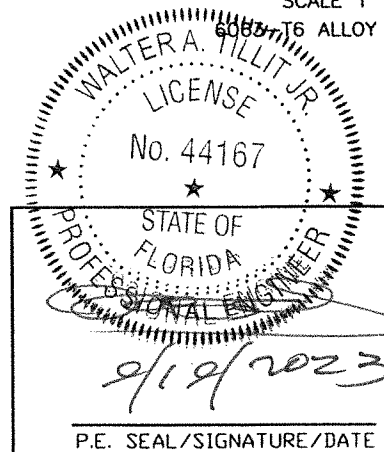
THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)											
©2023 TILTECO, INC.  TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167				SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				W.H DRAWN BY:			
				 290 WEST 78 ROAD HALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				09/13/2023 DATE:			
								23-217 DRAWING No.			
REV. NO		DESCRIPTION		DATE		REV. No		DESCRIPTION		DATE	
1		OLD 20-222		09/13/23		3		-		-	
2		-		-		4		-		-	
										SHEET 1 OF 10	



COMPONENTS



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.

TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY

6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166

Phone : (305)871-1530 . Fax : (305)871-1531

CA-0006719

WALTER A. TILLIT Jr. P.E.

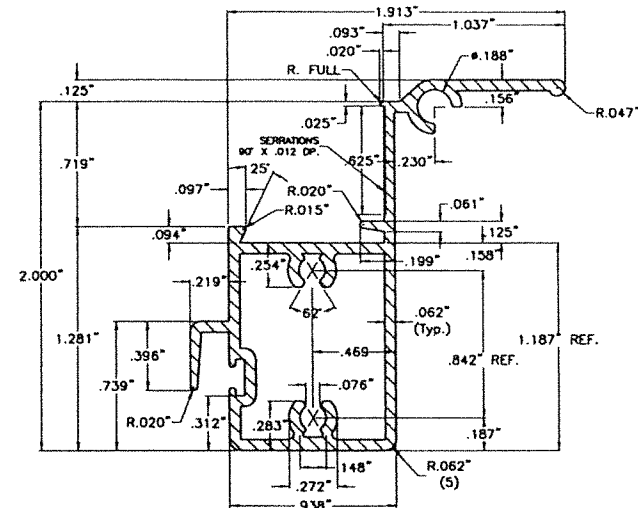
FLORIDA Lic. # 44167

**SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT**

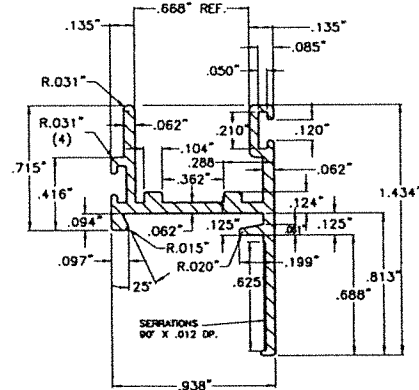
 290 WEST 78 ROAD
HIALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-

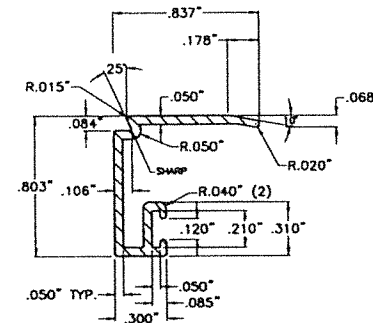
W.H
DRAWN BY:
9/13/2023
DATE:
23-217
DRAWING No.



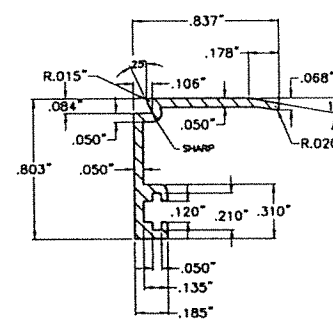
⑥ VENT BOTTOM RAIL
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



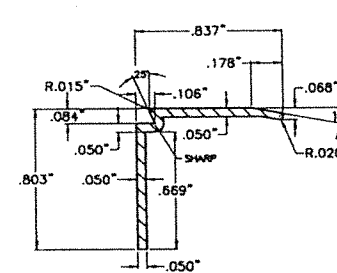
⑦ VENT SIDE RAIL
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



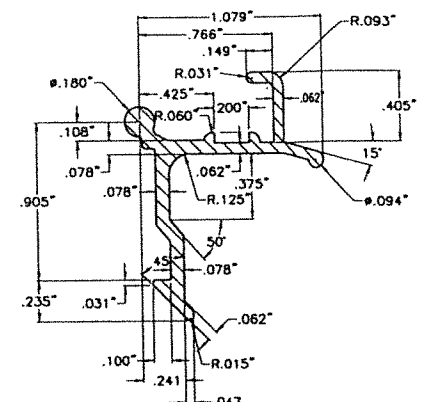
⑧ GLAZING BEAD FOR 5/16" GLASS
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



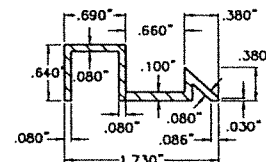
8A GLAZING BEAD FOR 7/16" GLASS
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



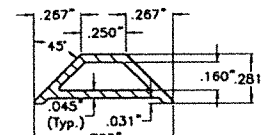
8B GLAZING BEAD FOR 11/16" GLASS
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



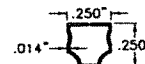
⑨ VENT LATCH
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



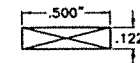
⑬ SASH CAM
SCALE 1/2" = 1"
6063-T6 ALLOY & TEMPER



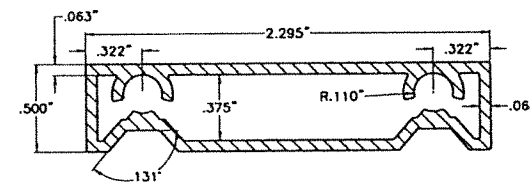
⑭ COLONIAL MUNTIN
SCALE 1" = 1"
6063-T5 ALLOY & TEMPER



⑰ INSULATED GLASS UNIT SPACER
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER

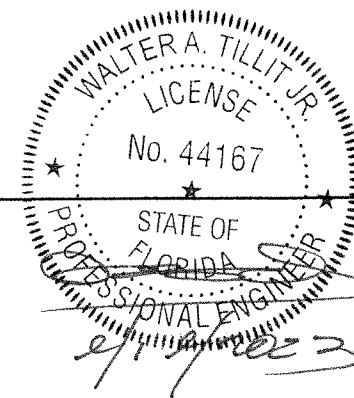


⑳ SETTING BLOCK E.P.D.M.
SCALE 1" = 1"



㉑ EQUAL LEG ADAPT.
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER

COMPONENTS



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT



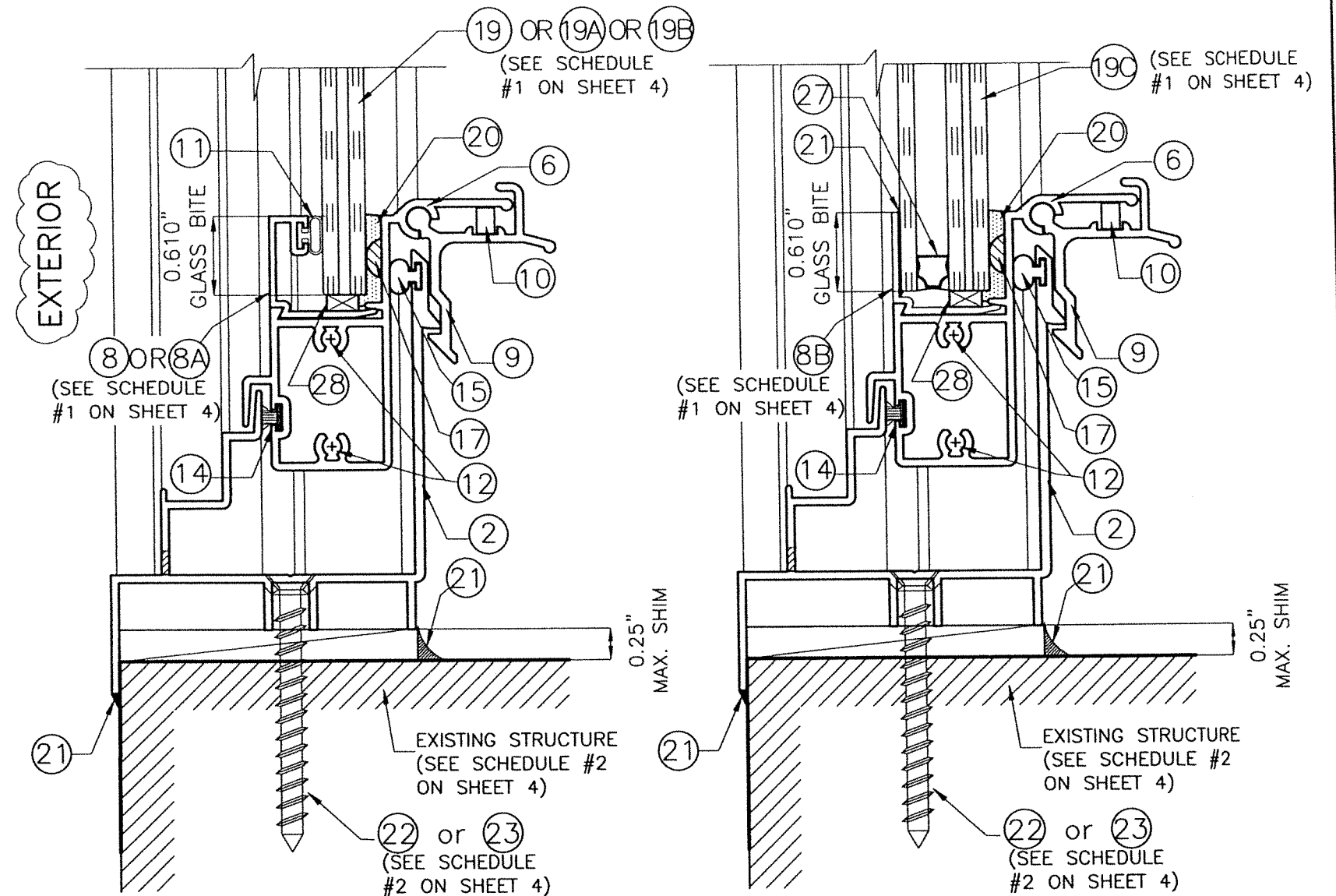
290 WEST 78 ROAD
HALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-

W.H
DRAWN BY:
09/13/2023
DATE:
23-217
DRAWING No.
SHEET 2A OF 10

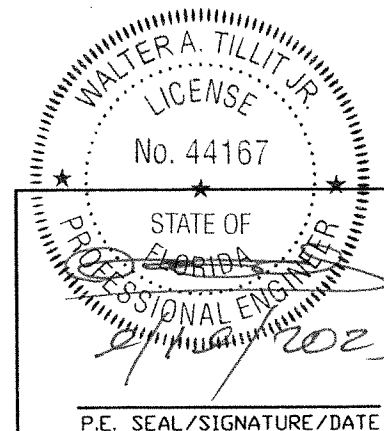
BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
①	FRAME HEAD	6063-T6
②	FRAME SILL	6063-T6
③	FRAME JAMB	6063-T6
④	FIXED MEETING RAIL	6063-T6
④A	ALT. FIXED MEETING RAIL	6063-T6
④I	ALUMINUM INSERT BAR FOR ④	6063-T6
④AI	ALUMINUM INSERT BAR FOR ④A	6063-T6
⑤	VENT TOP RAIL	6063-T6
⑤A	H.D VENT TOP RAIL	6063-T6
⑤B	ALT. VENT TOP RAIL	6063-T6
⑤AI	ALUMINUM INSERT BAR FOR ⑤A & ⑤B	6063-T6
⑥	VENT BOTTOM RAIL	6063-T6
⑦	VENT SIDE RAIL	6063-T6
⑧	GLAZING BEAD FOR 5/16" GLASS	6063-T6
⑧A	GLAZING BEAD FOR 7/16" GLASS	6063-T6
⑧B	GLAZING BEAD FOR 11/16" GLASS	6063-T6
⑨	VENT LATCH @ 6" FROM ENDS	6063-T6
⑩	LATCH SPRING	ST. STEEL
⑪	GLAZING BULB VINYL	NEOPRENE
⑫	FRAME & VENT ASSEMBLY SCREWS, (20) #8 x 1" PH SMS	ST. STEEL
⑬	SASH CAM	6063-T6
⑭	VENT WEATHER STRIPPING	-
⑮	FRAME SILL WEATHER STRIPPING	-
⑯	BLOCK & TACKLE BALANCE	-
⑰	BUMPON SPACER, 1/4" DIAMETER HALF SPHERE, CLEAR. 3" FROM CORNERS MAX. AND 12" O.C. (MAX.), AT MID-GLASS BITE ELEVATION, BY FRANK LOWE RUBBEL AND GASKET FLB-28, CLEAR.	SILICONE
⑱	SASH STOP	-
⑲	GLASS, 0.326" OVERALL LAMINATED GLASS WITH (1) 1/8" HEAT STRENGTHENED GLASS + A 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 1/8" HEAT STRENGTHENED GLASS	-
⑲A	GLASS, 0.444" OVERALL LAMINATED GLASS WITH (1) 3/16" HEAT STRENGTHENED GLASS + A 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 3/16" HEAT STRENGTHENED GLASS	-
⑲B	GLASS, 0.444" OVERALL LAMINATED GLASS WITH (1) 3/16" HEAT STRENGTHENED GLASS + A 0.090" SENTRYGLAS INTERLAYER BY KURARAY AMERICA, INC. + (1) 3/16" HEAT STRENGTHENED GLASS	-
⑲C	GLASS, 0.6875" OVERALL INSULATED-LAMINATED GLASS WITH (1) 1/8" TEMPERED GLASS OUTBOARD + 1/4" ARGON SPACER + (1) 1/8" HEAT STRENGTHENED GLASS + A 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 1/8" HEAT STRENGTHENED GLASS INBOARD	-
⑳	DOW CORNING 795	STRUCTURAL SILICONE
㉑	SEALANT, FIXED PANEL FRAME. FRAME ALL AROUND (EXTERIOR AND INTERIOR), FRAME CORNERS AND VENT CORNERS.	SILICONE
㉒	ANCHORS, 1/4"Ø TAPCON ANCHOR BY ITW BUILDEX, INC.	STEEL
㉓	ANCHORS, 1/4"Ø-14 TEK SCREW BY ITW BUILDEX, INC TO WOOD BUCK, ALUMNUM TUBE OR STEEL MEMBER.	STEEL
㉔	COLONIAL MUNTIN (OPTIONAL)	6063-T5
㉕	(4) NYLON GUIDES LOCATED AT VENT JAMB STILES AT 4 1/4" AND 35" FROM BOTTOM USING (1) #6 X 1/2" PH SMS.	NYLON
㉖	(2) NYLON GUIDES LOCATED AT EACH END OF VENT MEETING RAIL USING (2) #8 X 1" PH SMS.	NYLON
㉗	INSULATED GLASS SPACER	3105-H24 ALUMINUM
㉘	SETTING BLOCK 0.122"X0.5" (ULTRAFAB)	E.PD.M.
㉙	EQUAL LEG ADAPT.	6063-T6
㉚	EQUAL LEG ADAPT. ASSEMBLY SCREWS, #14 x 2-3/4" F.H. SMS	ST. STEEL
㉛	SASH LOCK WITH (2) #8 x 3/4"	ST. STEEL



GLAZING DETAIL FOR
⑲, ⑲A & ⑲B
(SECTION)
SCALE: N.T.S.

GLAZING DETAIL FOR
⑲C (SECTION)
SCALE: N.T.S.



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

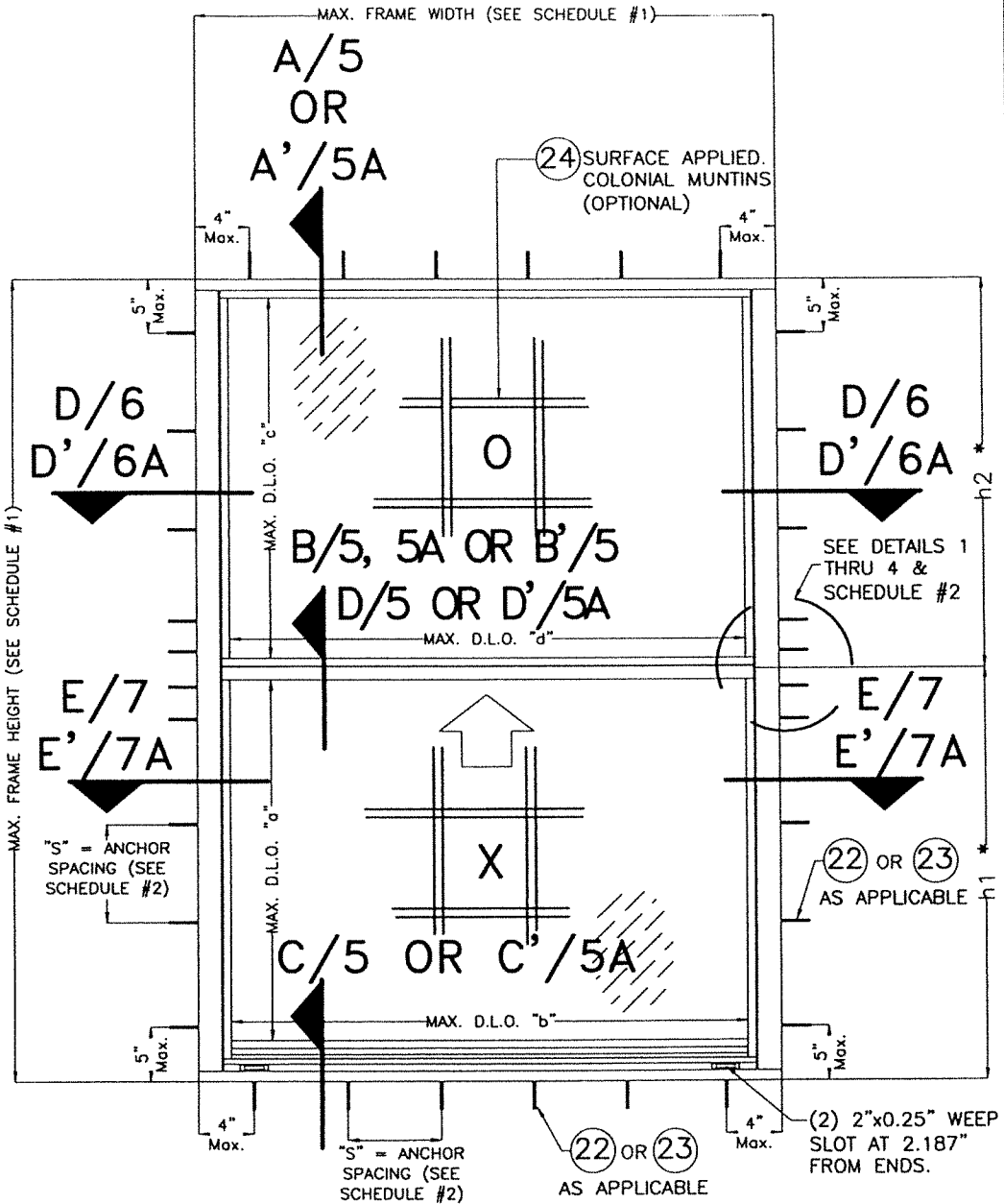
SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				W.H DRAWN BY:	
 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				09/13/2023 DATE:	
				23-217 DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-

SINGLE HUNG WINDOW SCHEDULE #1

WINDOW CASE #	MAXIMUM A.S.D. DESIGN PRESSURE RATING	MAXIMUM WATER PRESSURE	MAXIMUM FRAME WIDTH	MAXIMUM FRAME HEIGHT	MAXIMUM D.L.O. "a"	MAXIMUM D.L.O. "b"	MAXIMUM D.L.O. "c"	MAXIMUM D.L.O. "d"	REQUIRED GLAZING BEAD	REQUIRED GLASS TYPE (SEE BILL OF MATERIALS)	REQUIRED MEETING RAIL
I	+80.0, -80.0 psf	12.0 psf	53 1/8"	74 1/4"	33 1/4"	47 3/8"	33 5/8"	47 1/4"	(8)	(19) OR (19C)	(4) + (5) OR (4A) + (5B)
II	+90.0, -90.0 psf	13.5 psf	53 1/8"	74 1/4"	33 1/4"	47 3/8"	33 5/8"	47 1/4"	(8A)	(19A)	(4) + (41) OR (4A) + (4A1) + (5A) + (5A1) OR (5B) + (5A1)
III	+100.0, -100.0 psf	15.0 psf	44"	74 1/4"	33 1/4"	38 1/8"	33 5/8"	38"	(8A)	(19A)	(4) + (41) OR (4A) + (4A1) + (5A) + (5A1) OR (5B) + (5A1)
IV	+120.0, -150.0 psf	18.0 psf	53 1/8"	74 1/4"	33 1/4"	47 3/8"	33 3/8"	47 1/4"	(8A)	(19B)	(4) + (41) OR (4A) + (4A1) + (5A) + (5A1) OR (5B) + (5A1)

MAXIMUM ANCHOR SPACING SCHEDULE #2

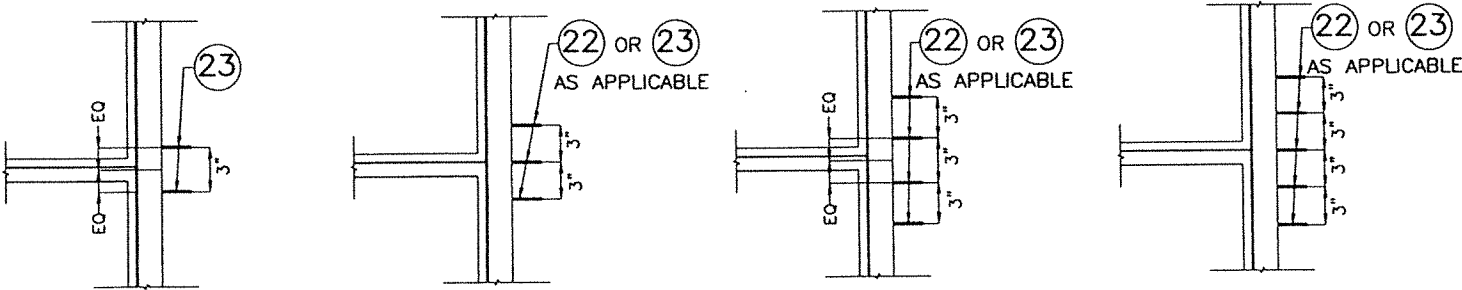
SUBSTRATE	ANCHOR TYPE	A.S.D. DESIGN PRESSURE RATING (psf)	HEAD/SILL	JAMBS	REQUIRED ADDITIONAL CONCENTRATION OF ANCHORS @ MEETING RAIL
CONCRETE	1/4" ITW/BUILDEX TAPCON ANCHOR (22)	80 OR LESS	13" o.c.	13" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>80 TO 100	10 1/2" o.c.	10 1/2" o.c.	SEE DETAIL 3 (4 ANCHORS)
		>100 TO 150	7" o.c.	7" o.c.	SEE DETAIL 4 (5 ANCHORS)
BLOCK	1/4" ITW/BUILDEX TAPCON ANCHOR (22)	80 OR LESS	13" o.c.	13" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>80 TO 100	10 1/2" o.c.	10 1/2" o.c.	SEE DETAIL 3 (4 ANCHORS)
		>100 TO 150	7" o.c.	7" o.c.	SEE DETAIL 4 (5 ANCHORS)
WOOD	1/4"-14 ITW/BUILDEX TEK SCREW (23)	80 OR LESS	15 1/2" o.c.	13" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>80 TO 100	12 1/2" o.c.	12 1/2" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>100 TO 150	8 1/2" o.c.	8 1/2" o.c.	SEE DETAIL 4 (5 ANCHORS)
ALUMINUM TUBE OR STEEL MEMBER	1/4"-14 ITW/BUILDEX TEK SCREW (23)	80 OR LESS	18 1/2" o.c.	13" o.c.	SEE DETAIL 1 (2 ANCHORS)
		>80 TO 100	14 1/2" o.c.	13" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>100 TO 150	9 1/2" o.c.	9 1/2" o.c.	SEE DETAIL 3 (4 ANCHORS)



TYPICAL EXTERIOR ELEVATION (OX).

SCALE: N.T.S.

* NOTE: h1 AND h2 MAY BE DIFFERENT FROM EACH OTHER BUT THEY SHALL BE SUCH THAT h1 + h2 DOES NOT EXCEED MAXIMUM FRAME HEIGHT INDICATED ON SCHEDULE #1. ADDITIONALLY, DAYLIGHT OPENINGS CREATED BY h1 AND h2 SHALL BE SUCH THAT MAXIMUM DAYLIGHT OPENINGS "a" AND "c" INDICATED ON SCHEDULE #1 ARE NOT EXCEEDED.



DETAIL 1
2 ANCHORS

DETAIL 2
3 ANCHORS

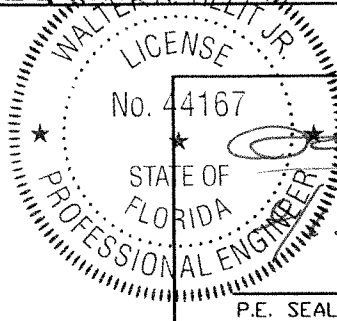
DETAIL 3
4 ANCHORS

DETAIL 4
5 ANCHORS

REQUIREMENTS FOR ANCHORS CONCENTRATION AT ENDS OF MEETING RAILS

SCALE: N.T.S.

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)



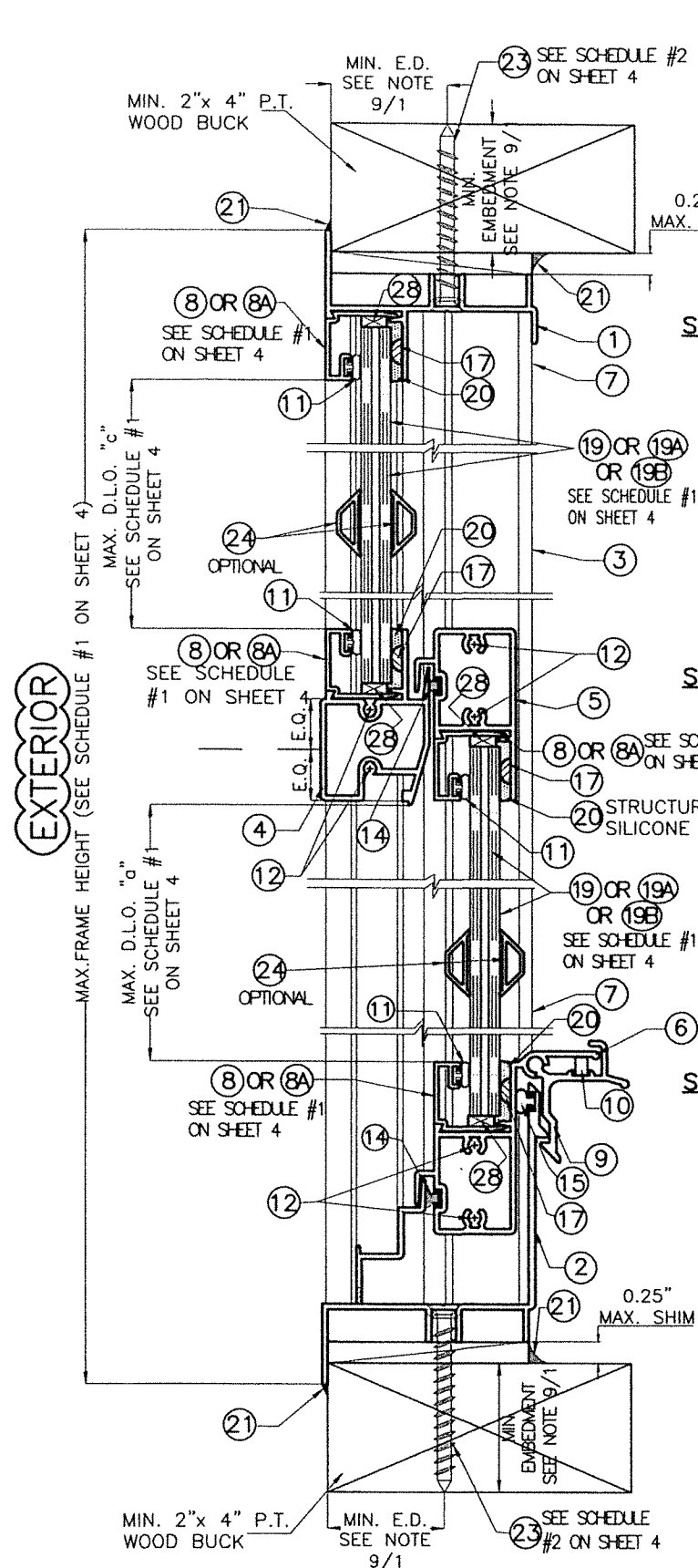
P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

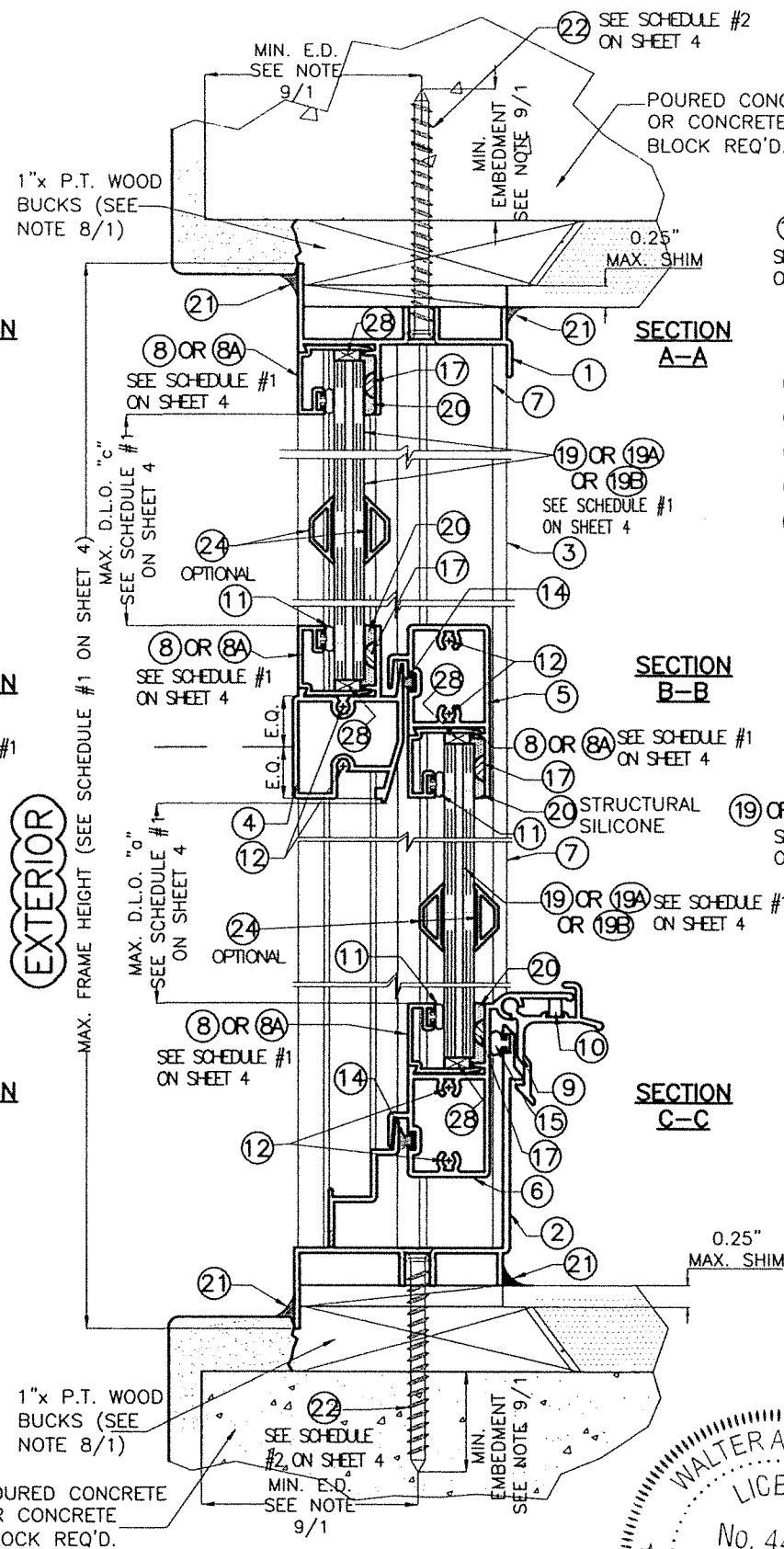
TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

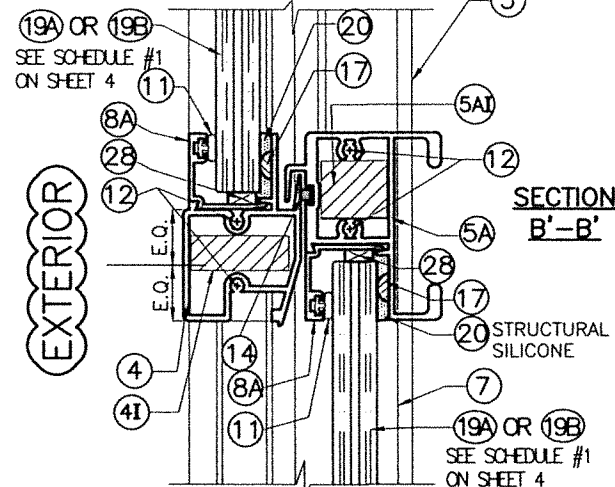
SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT						W.H DRAWN BY:
 290 WEST 78 ROAD HALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com						09/13/2023 DATE:
						23-217 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 4 OF 10
1	OLD 20-222	09/13/23	3	-	-	
2	-	-	4	-	-	



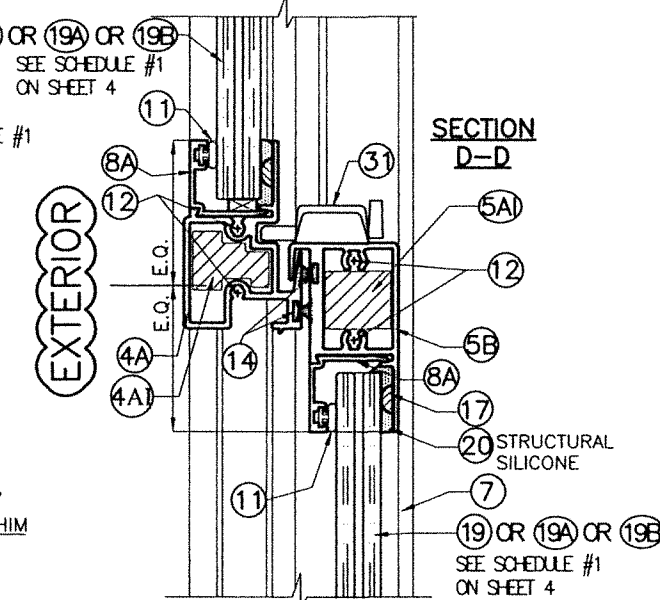
INSTALLATION INTO WOOD
SCALE: 3/4"=1"



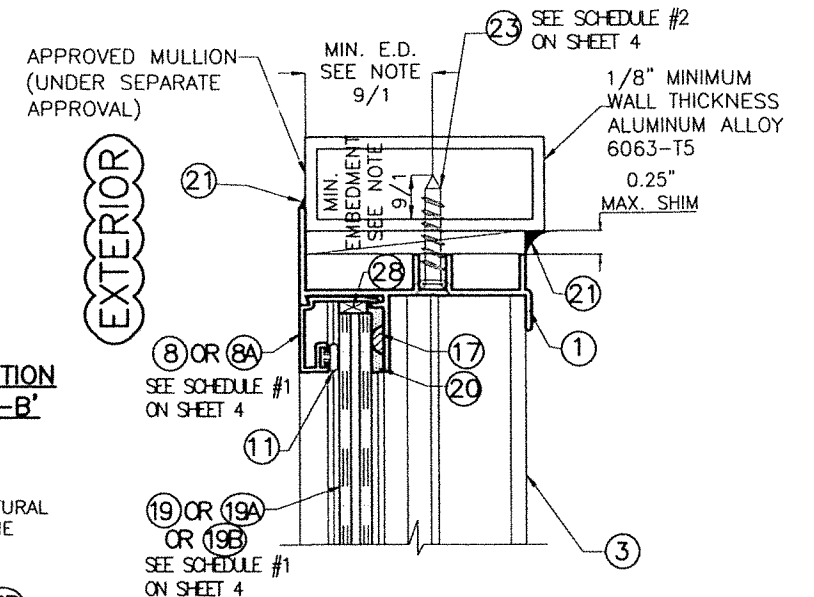
**INSTALLATION INTO
POURED CONCRETE OR
CONCRETE BLOCK**
SCALE: 3/4"=1"



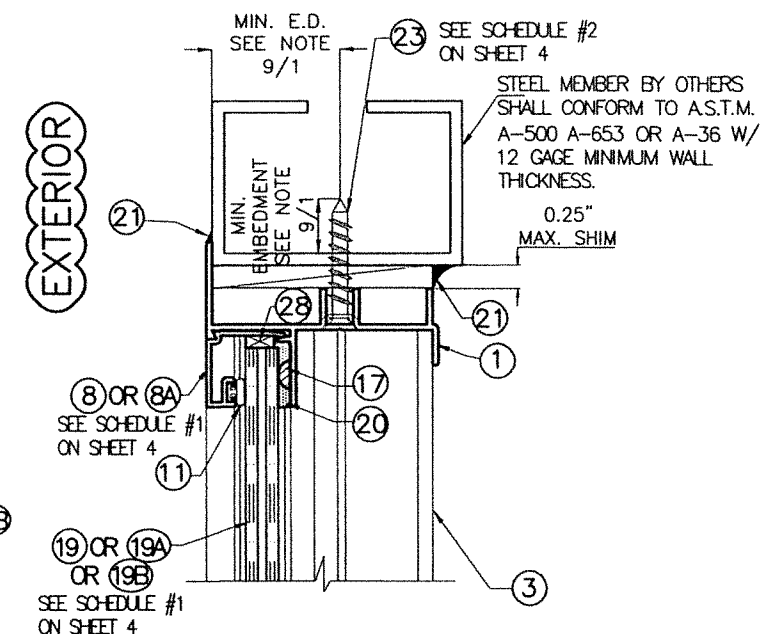
**ALTERNATIVE MEETING RAILS ④ &
⑤A W/ ④I & ⑤AI REINFORCEMENTS**
SCALE: 3/4"=1"



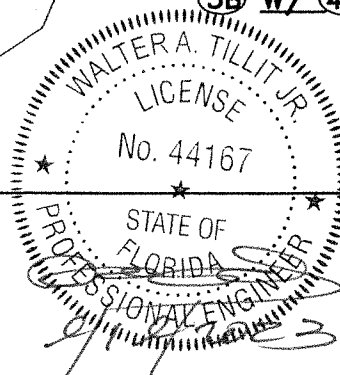
**ALTERNATIVE MEETING RAILS ④A &
⑤B W/ ④AI & ⑤AI REINFORCEMENTS**
SCALE: 3/4"=1"



**SECTION A-A (SECTION C-C sim.)
INSTALLATION INTO
ALUMINUM MULLION**
SCALE: 3/4"=1"



**SECTION A-A (SECTION C-C sim.)
INSTALLATION INTO
STEEL MEMBER**
SCALE: 3/4"=1"



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT**



290 WEST 78 ROAD
HALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com

W.H
DRAWN BY:

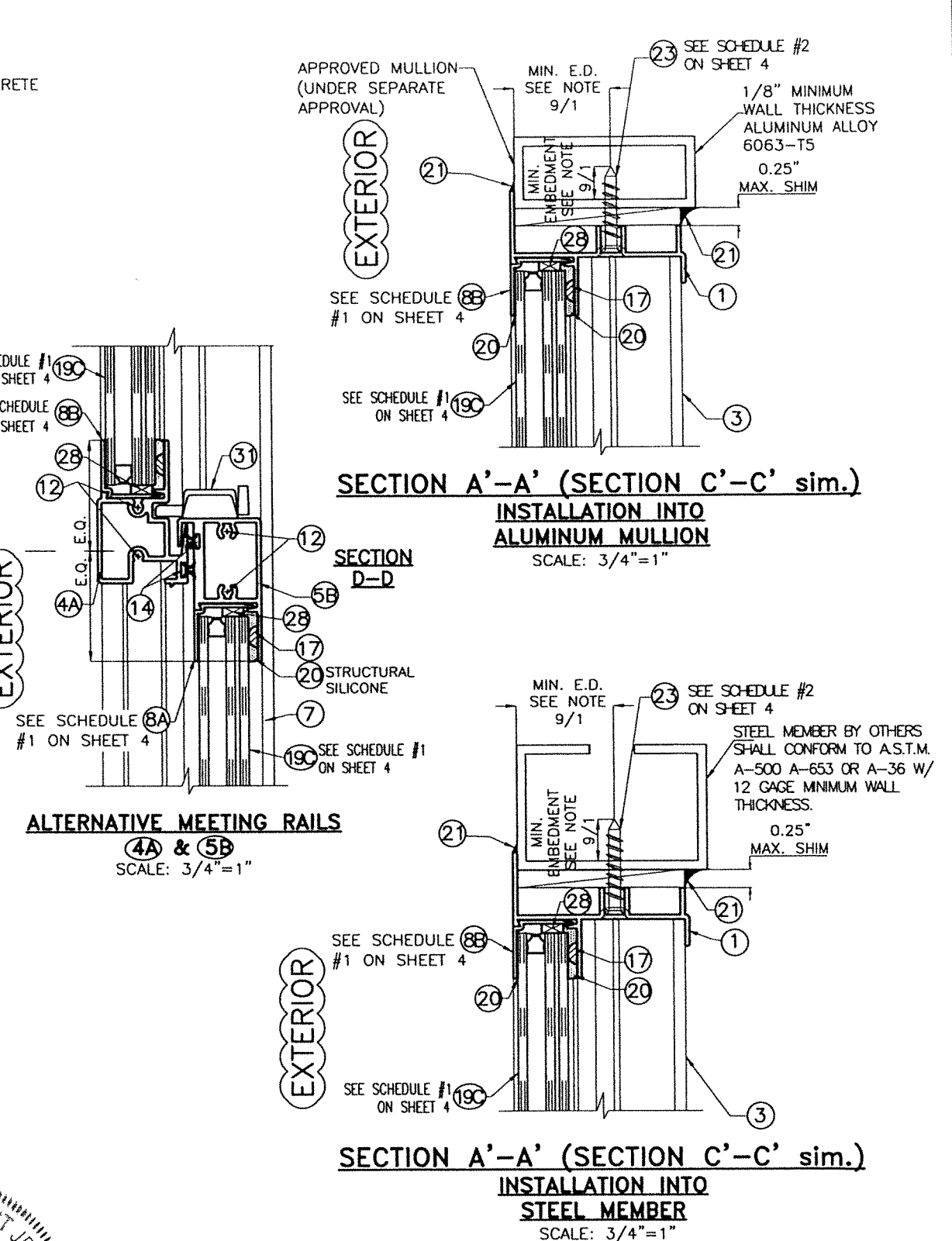
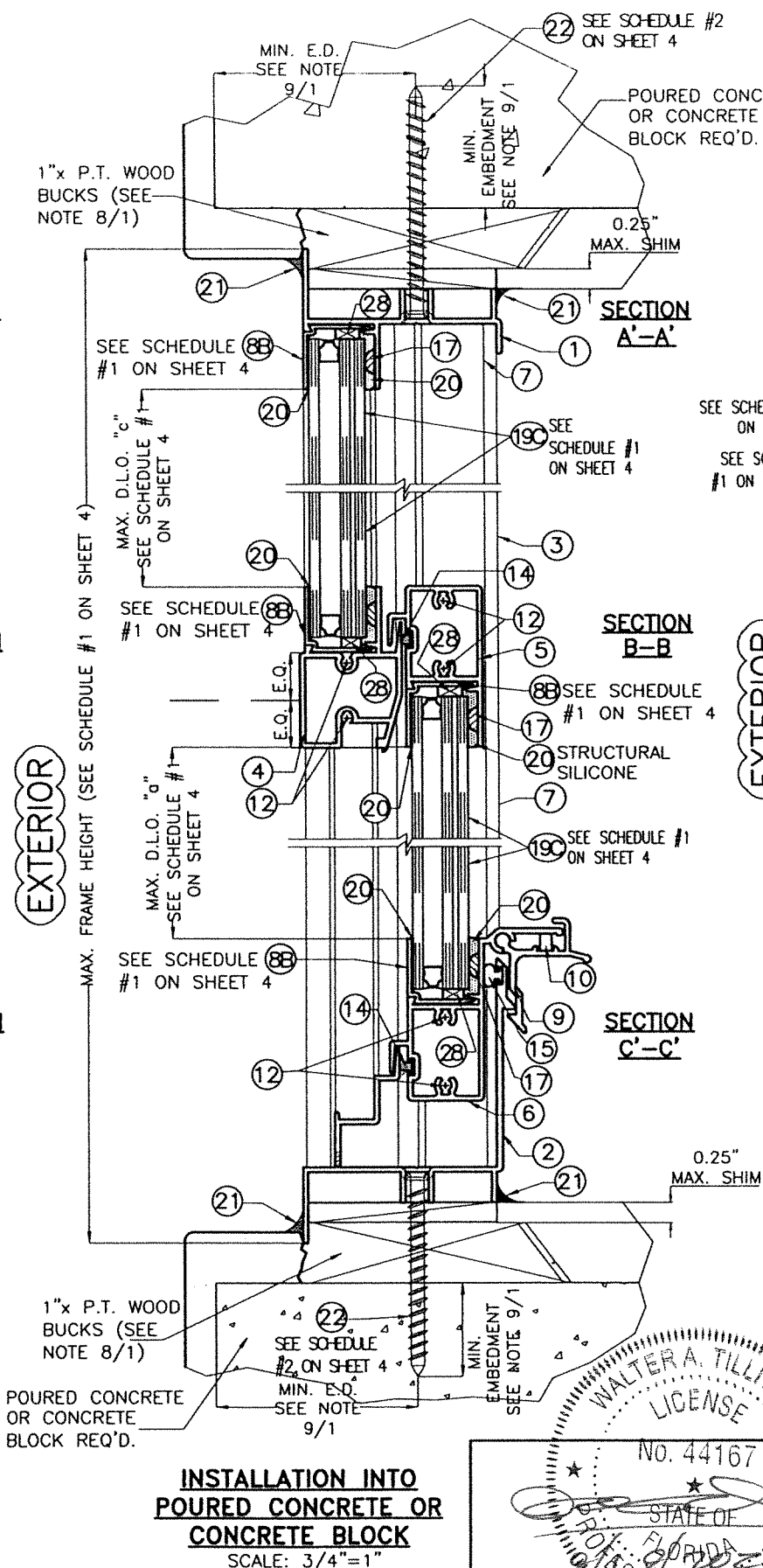
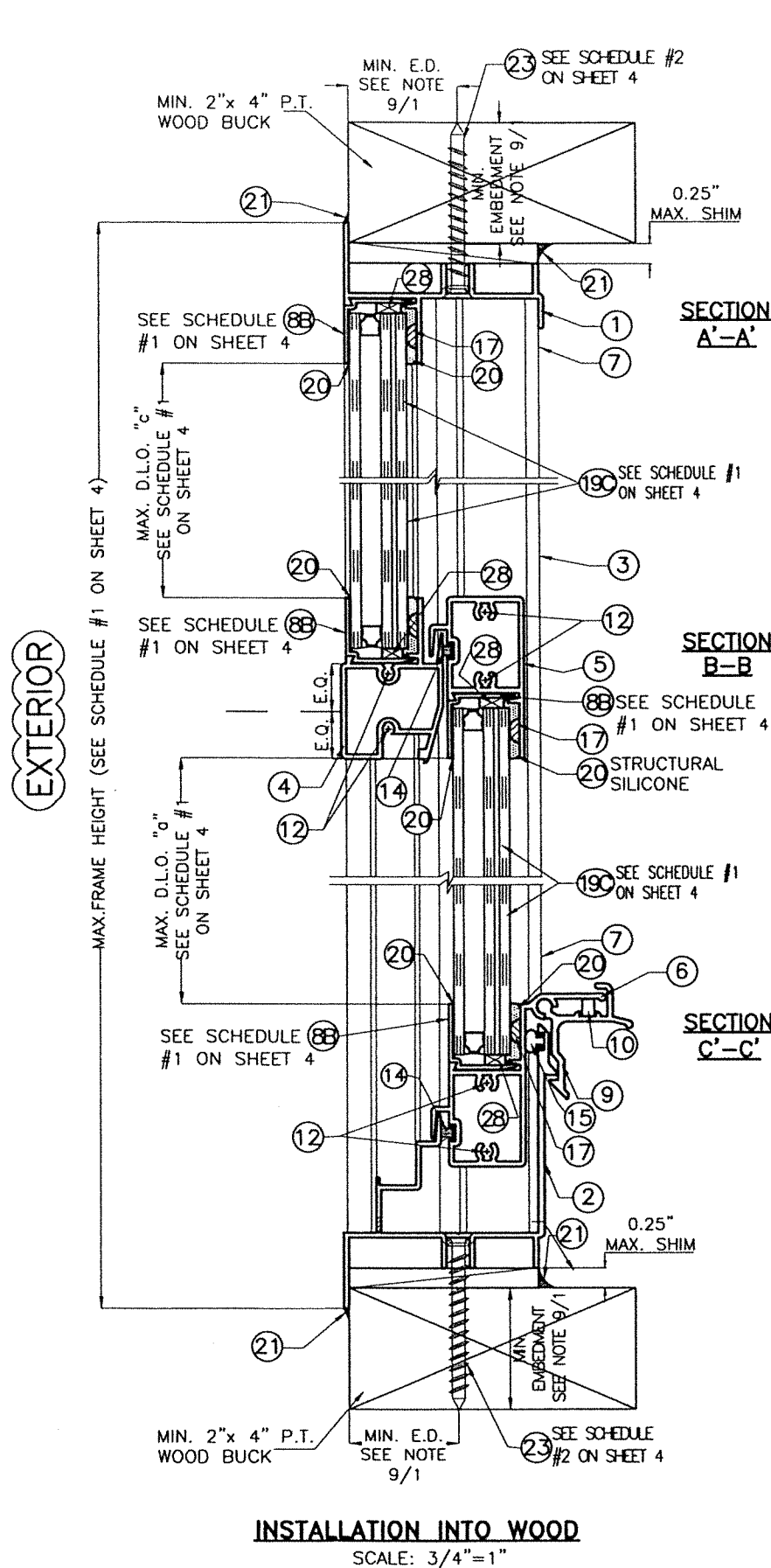
09/13/2023
DATE:

23-217

DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-

SHEET 5 OF 10

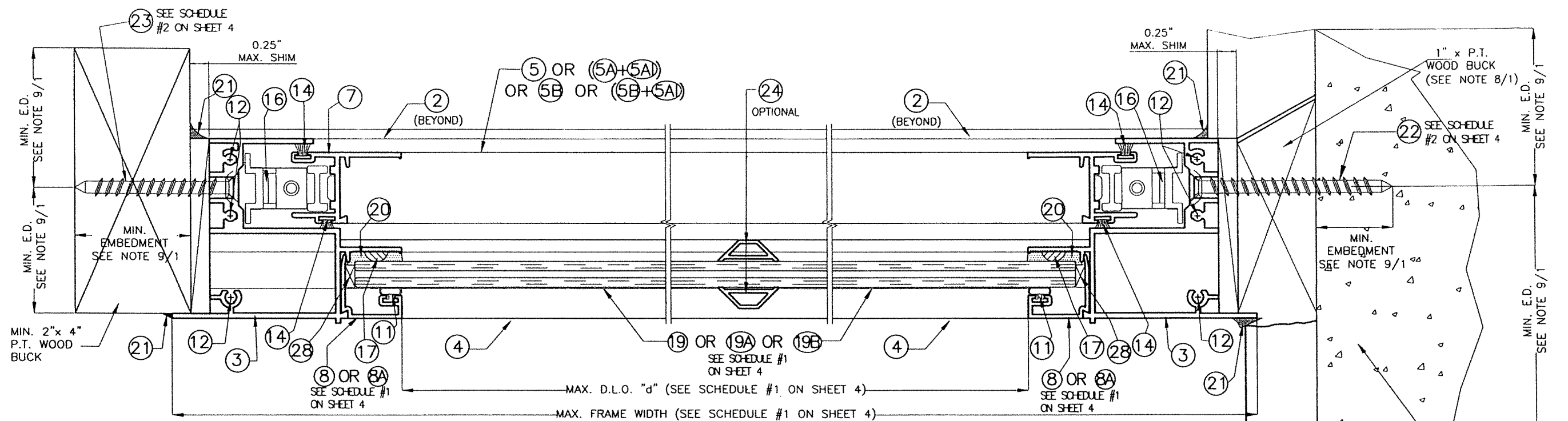


FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

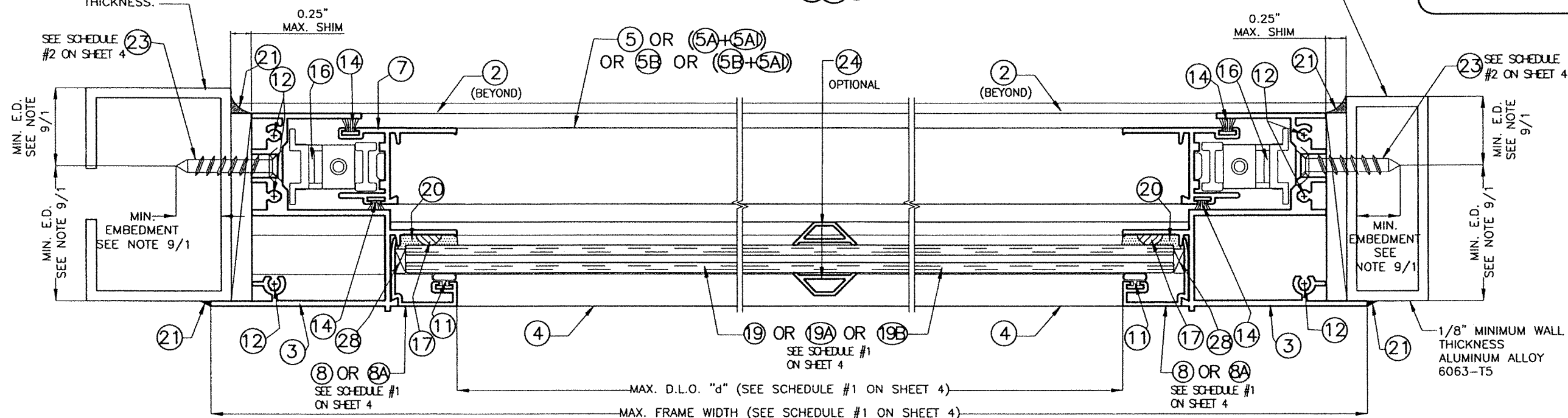
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.
TILTECO inc.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone: (305)871-1530 Fax: (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				W.H DRAWN BY:	
 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				09/13/2023 DATE:	
				23-217 DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-



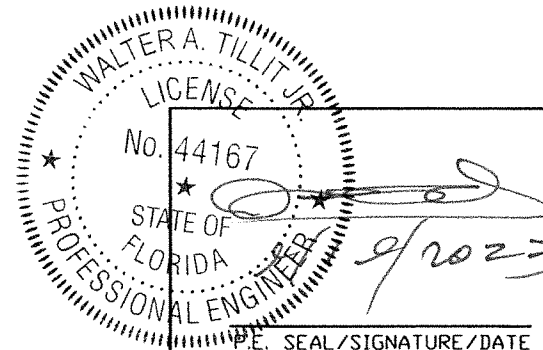
STEEL MEMBER BY OTHERS
SHALL CONFORM TO A.S.T.M.
A-500 A-653 OR A-36 W/
12 GAGE MINIMUM WALL
THICKNESS.



EXTERIOR

SECTIONS D-D **INSTALLATIONS INTO WOOD, POURED CONCRETE,** **CONCRETE BLOCK OR METAL.**

SCALE 1/2" = 1"



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT



290 WEST 78 ROAD
HALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigawindows.com

W.H
DRAWN BY:

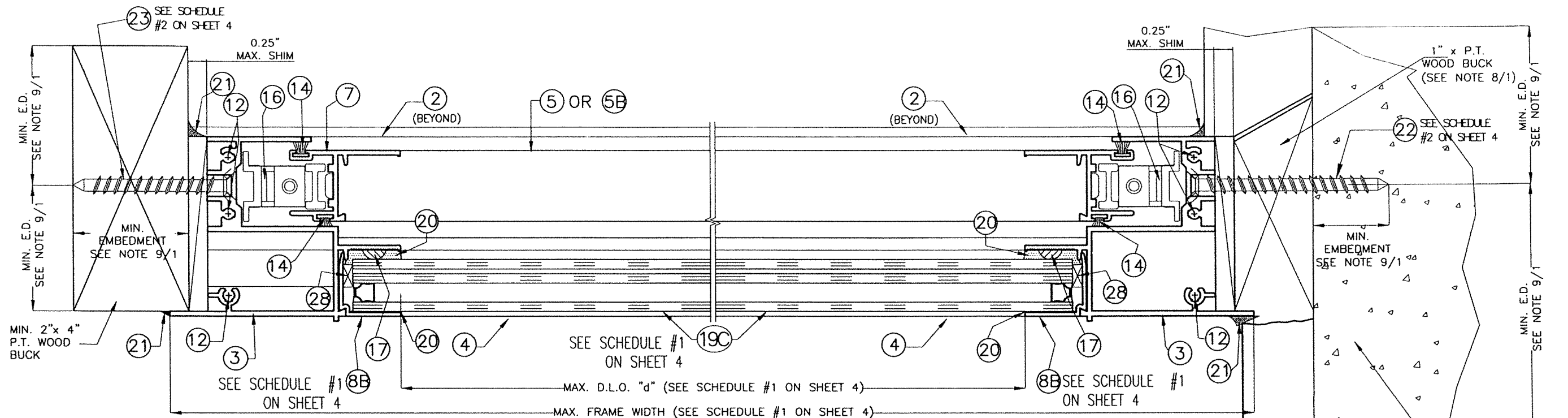
09/13/2023
DATE:

23-217

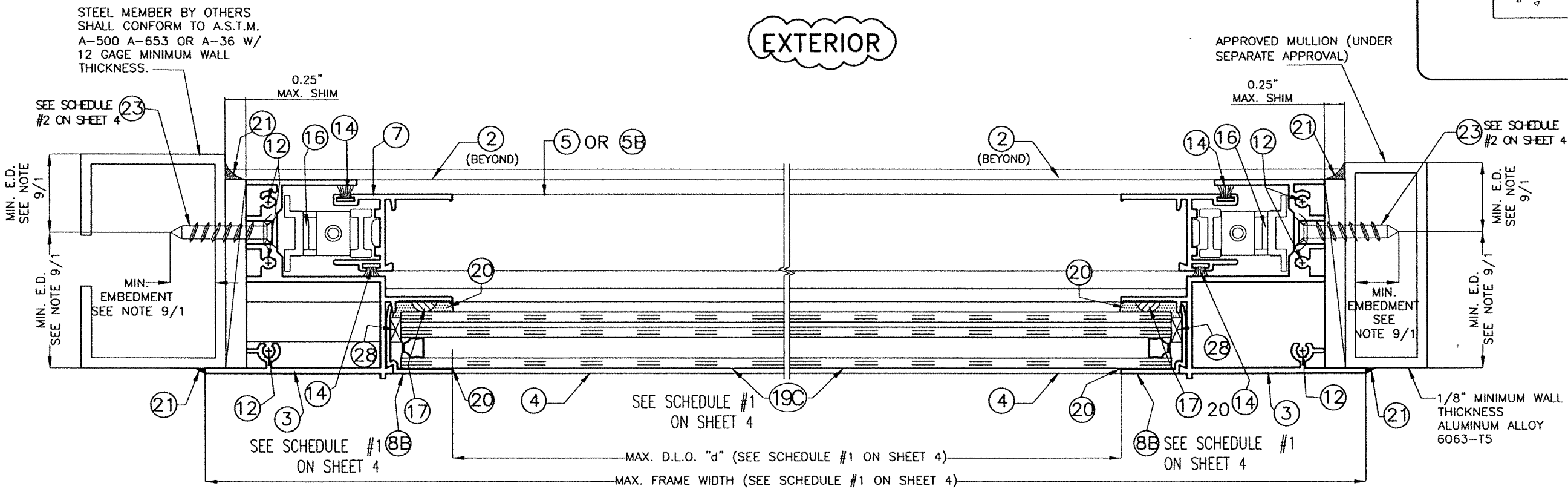
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-

SHEET 6 OF 10



EXTERIOR



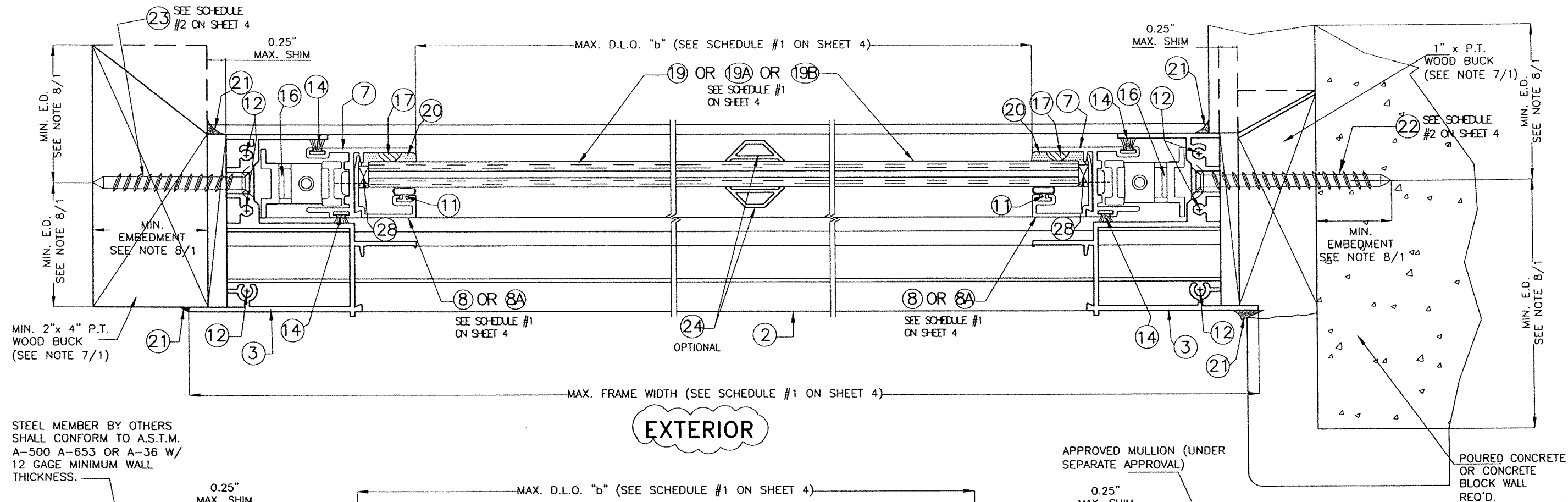
EXTERIOR

SECTIONS D-D
INSTALLATIONS INTO WOOD, POURED CONCRETE,
CONCRETE BLOCK OR METAL.
 SCALE 1/2" = 1"

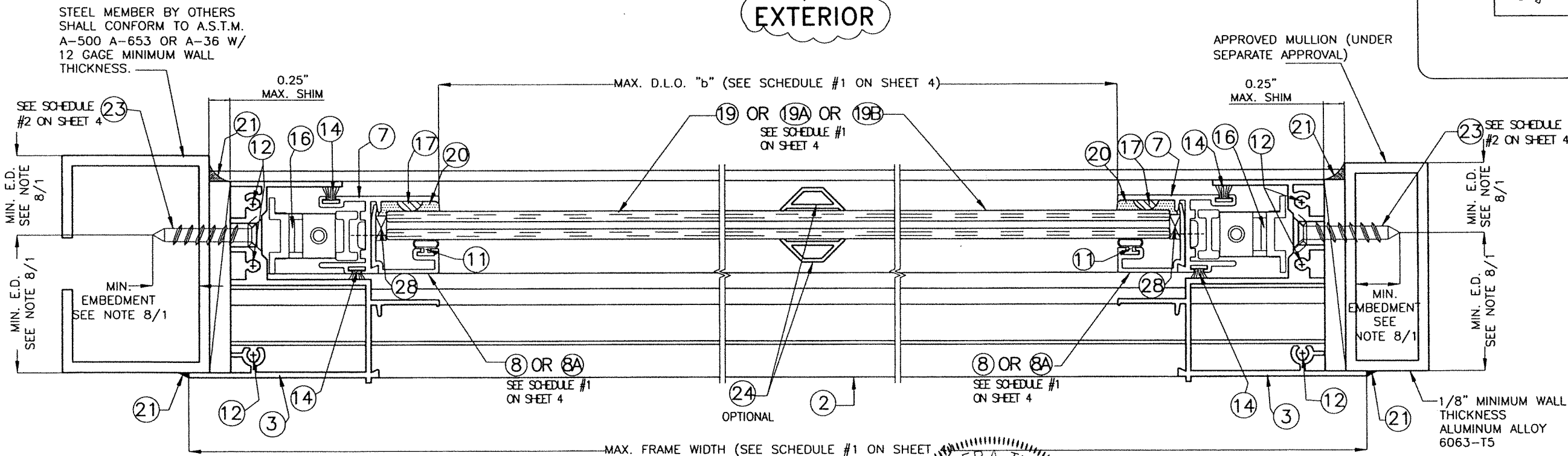
WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER
 4/2023
 P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT 290 WEST 78 ROAD HIALEAH, FL. 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com	W.H DRAWN BY: 09/13/2023 DATE: 23-217 DRAWING No. SHEET 6A OF 10		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-



EXTERIOR



EXTERIOR

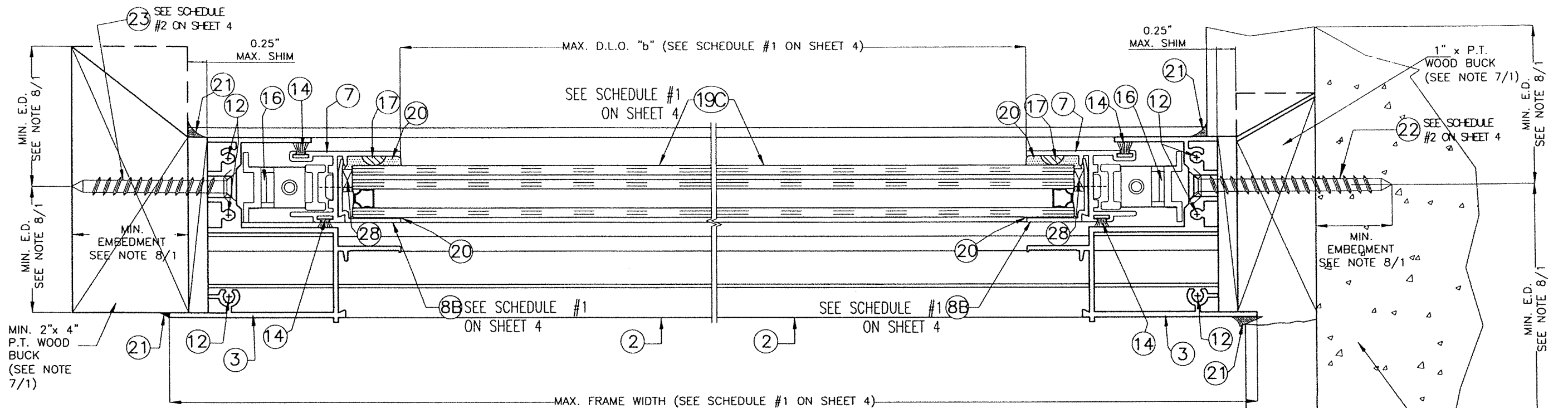
SECTIONS E-E
INSTALLATIONS INTO WOOD, POURED CONCRETE,
CONCRETE BLOCK OR METAL.
 SCALE 1/2" = 1"

WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER
 9/19/2023
 P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.
TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
 Phone : (305)871-1530 . Fax : (305)871-1531
 CA-0006719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167

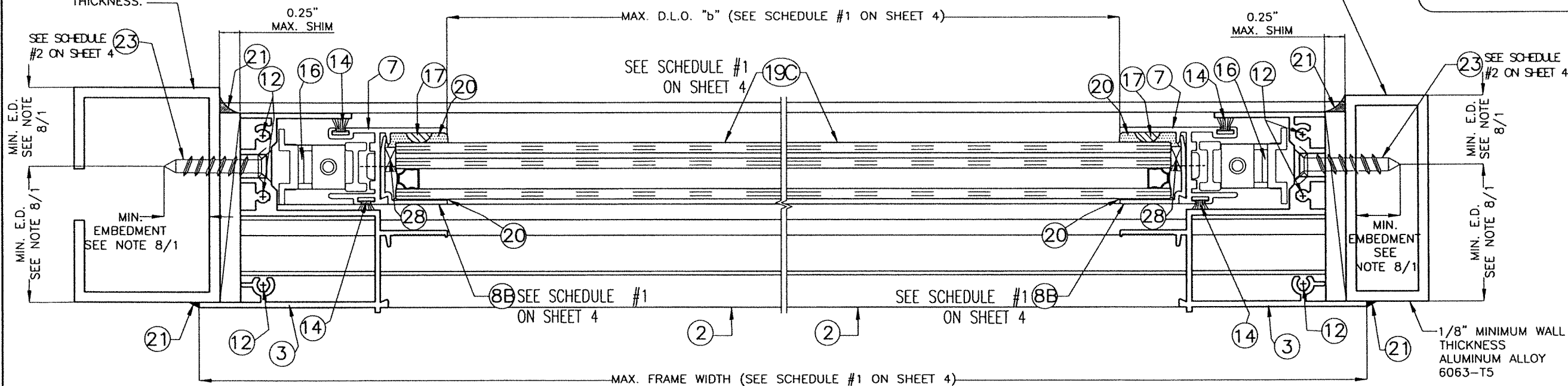
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT						W.H DRAWN BY:
 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com						09/13/2023 DATE:
						23-217 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	OLD 20-222	09/13/23	3	-	-	
2	-	-	4	-	-	

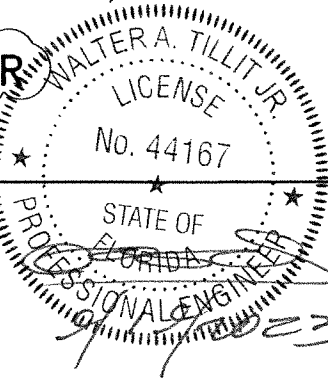


EXTERIOR

STEEL MEMBER BY OTHERS
SHALL CONFORM TO A.S.T.M.
A-500 A-653 OR A-36 W/
12 GAGE MINIMUM WALL
THICKNESS.



EXTERIOR



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

SECTIONS E-E INSTALLATIONS INTO WOOD, POURED CONCRETE, CONCRETE BLOCK OR METAL.

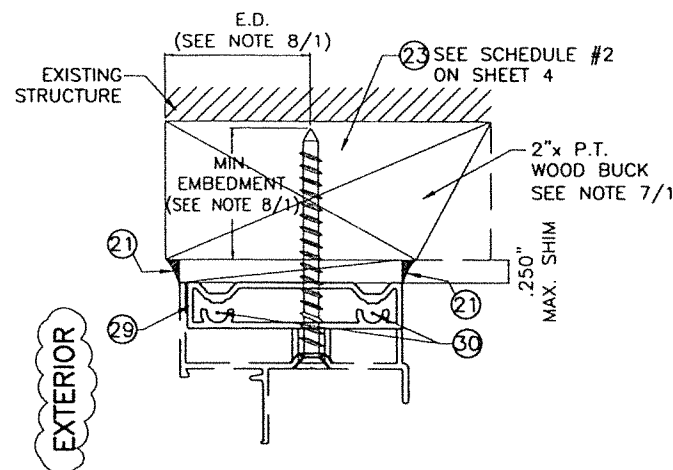
SCALE 1/2" = 1"

©2023 TILTECO, INC.

TILTECO INC.

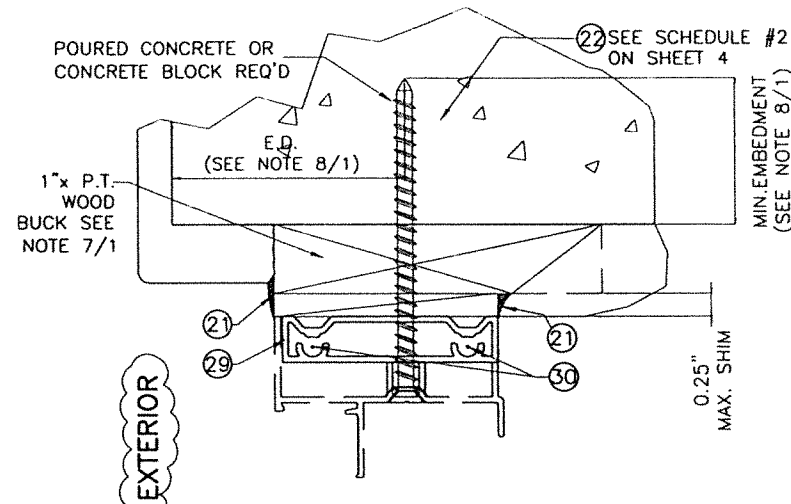
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT						W.H DRAWN BY:	
 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com						09/13/2023 DATE:	
						23-217 DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 7A OF 10	
1	OLD 20-222	09/13/23	3	-	-		
2	-	-	4	-	-		



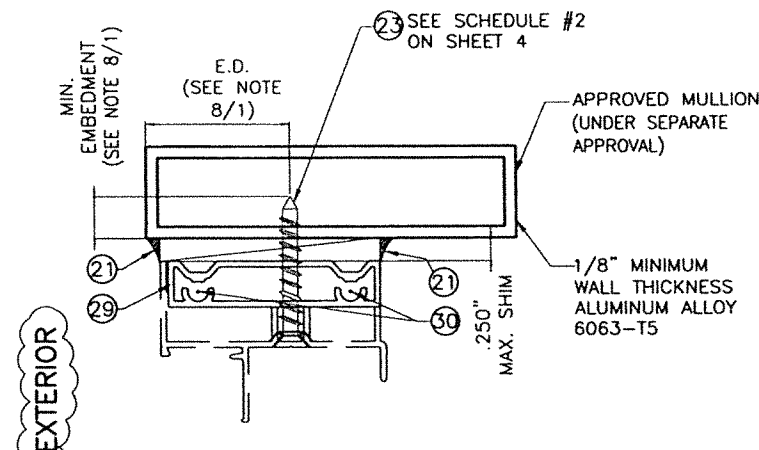
**ALTERNATIVE SECTION
INSTALLATION
TO WOOD**

SCALE: 1/2"=1"



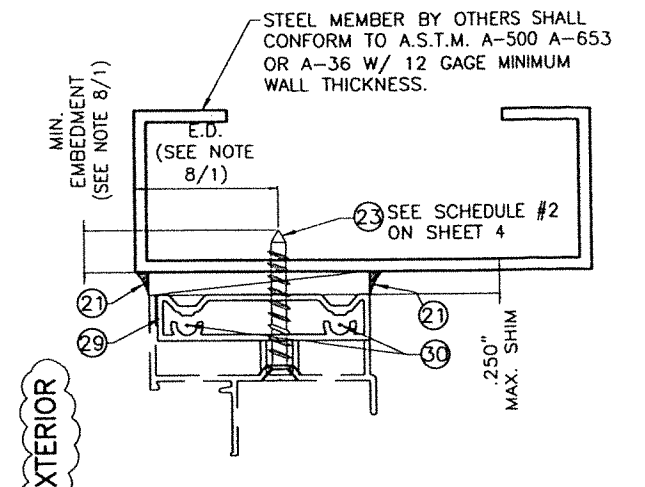
**ALTERNATIVE SECTION
INSTALLATION
TO CONCRETE**

SCALE: 1/2"=1"



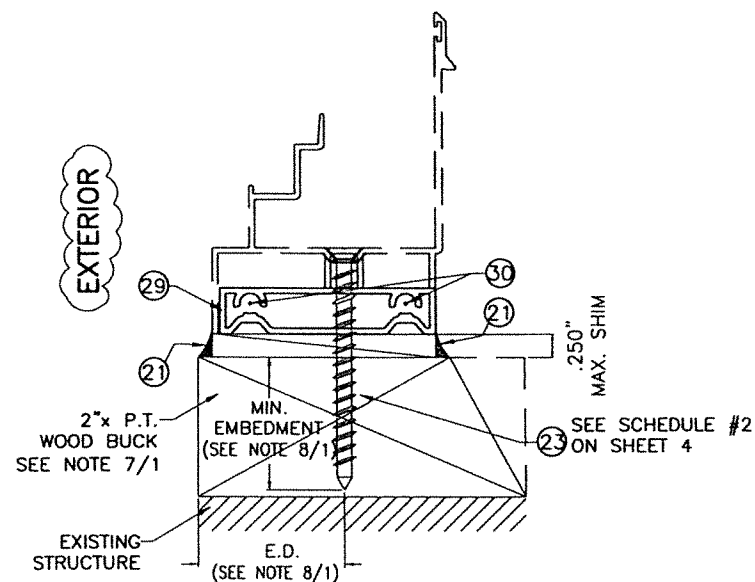
**ALTERNATIVE SECTION
INSTALLATION
TO ALUMINUM**

SCALE: 1/2"=1"



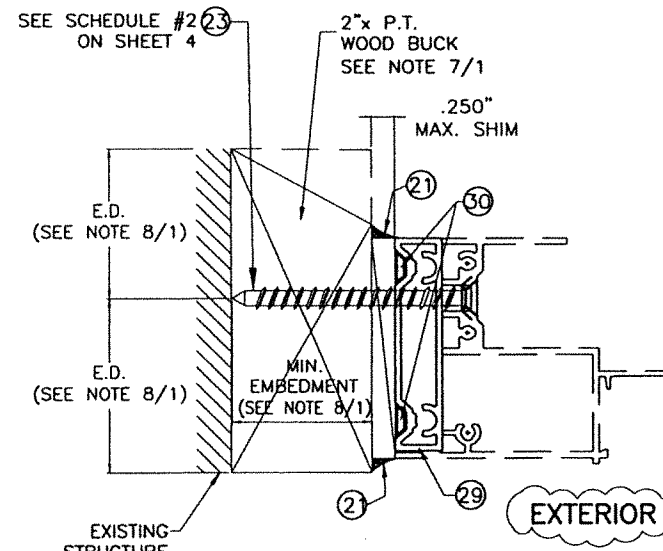
**ALTERNATIVE SECTION
INSTALLATION
TO STEEL MEMBER**

SCALE: 1/2"=1"



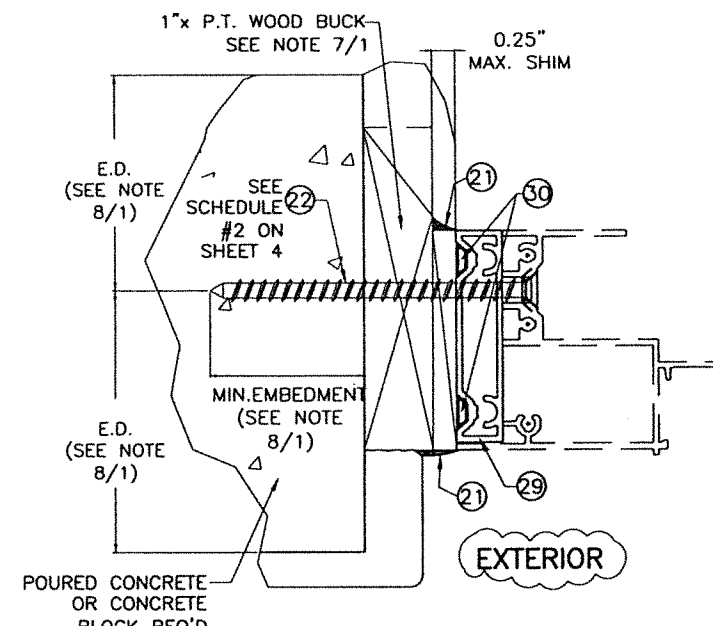
**ALTERNATIVE SECTION
INSTALLATION
TO WOOD**

SCALE: 1/2"=1"



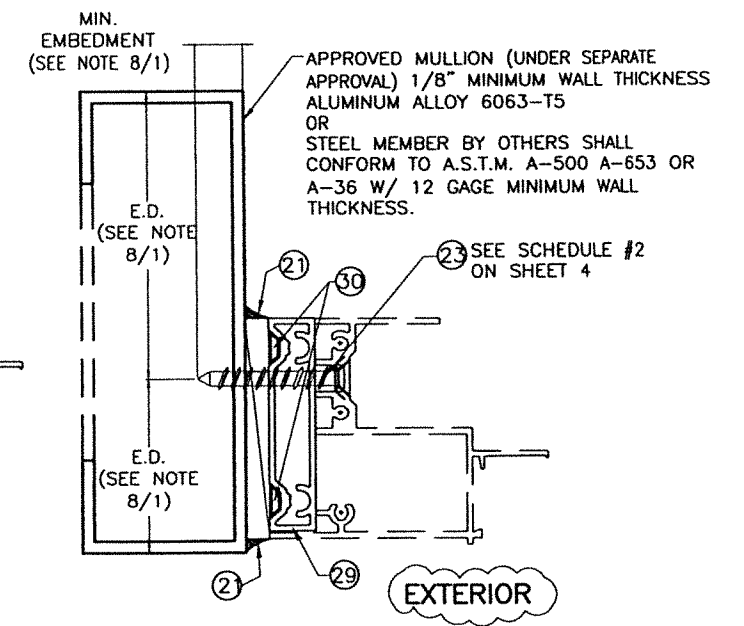
**ALTERNATIVE SECTION
INSTALLATION
TO WOOD**

SCALE: 1/2"=1"



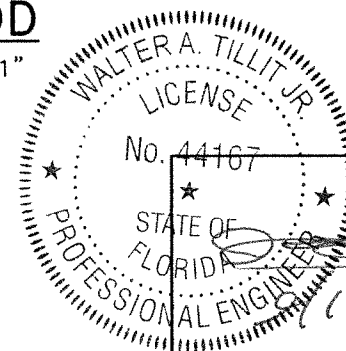
**ALTERNATIVE SECTION
INSTALLATION
TO CONCRETE**

SCALE: 1/2"=1"



**ALTERNATIVE SECTION
INSTALLATION
TO ALUMINUM
OR STEEL MEMBER**

SCALE: 1/2"=1"



P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT						W.H. DRAWN BY:
 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com						09/13/2023 DATE:
						23-217 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 8 OF 10
1	OLD 20-222	09/13/23	3	-	-	
2	-	-	4	-	-	

12 (3) #8 X 1" PH SMS

12 (2) #8 X 1" PH SMS

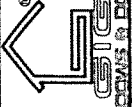
4 OR (4 + 4I)
OR 4A OR (4A + 4AI)

12 (3) #8 X 1" PH SMS

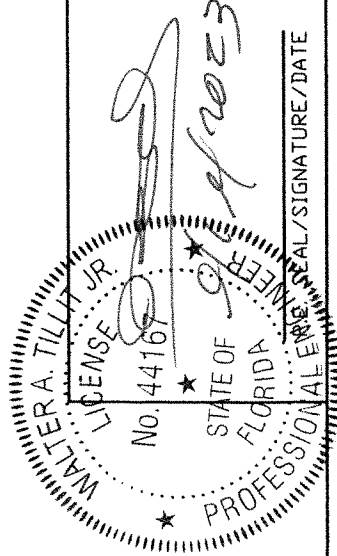
CORNER CONNECTION AT
FRAME HEAD AND SILL

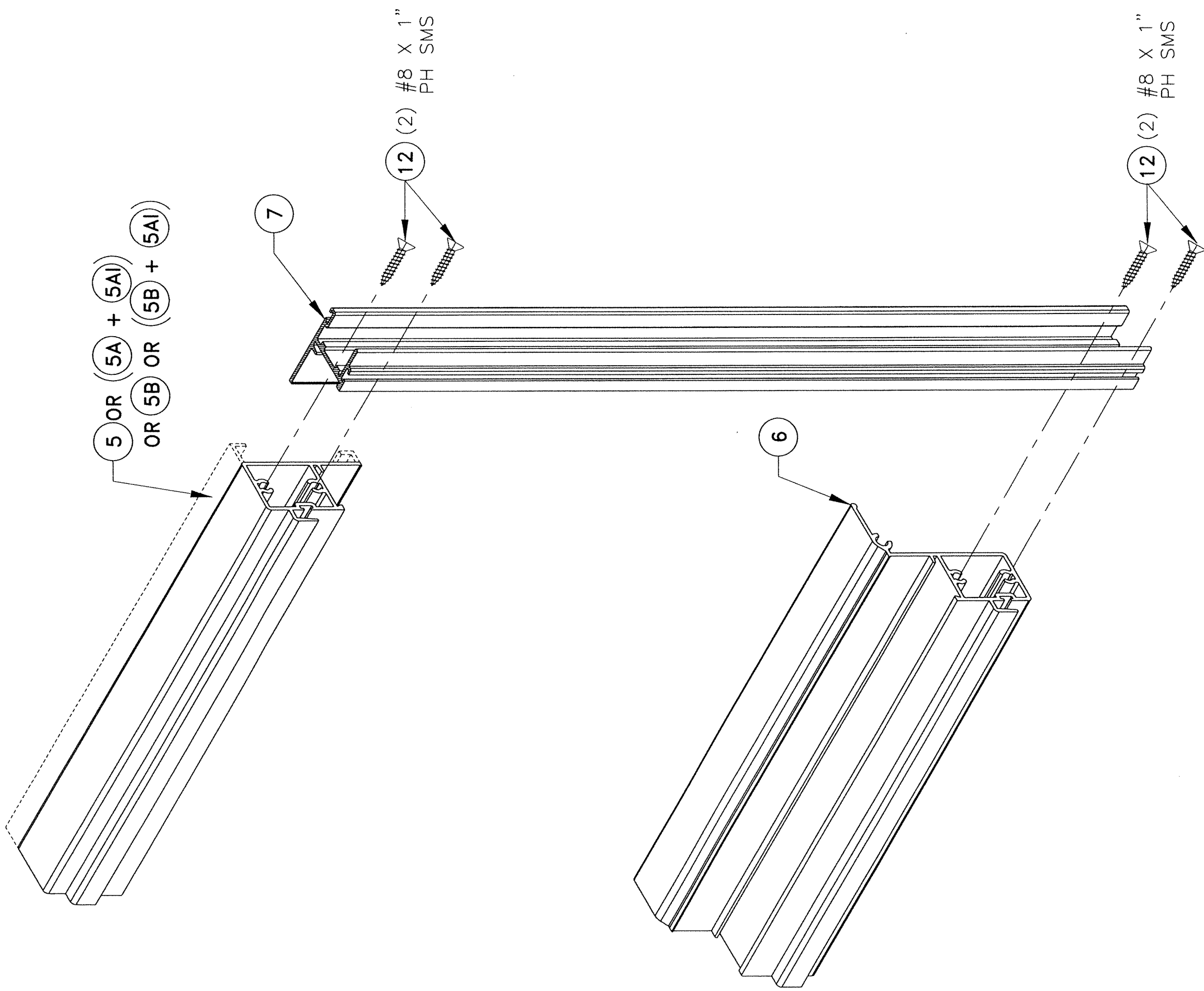
SCALE 1/2" = 1"

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

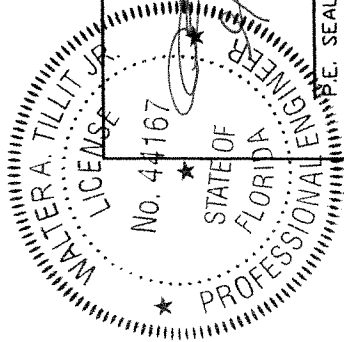
SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				W.H. DRAWN BY:	
 290 WEST 78 ROAD HALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				09/13/2023 DATE:	
				23-217 DRAWING No.	
REV. NO.	DESCRIPTION	DATE	REV. NO.	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3		
2			4		

©2023 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th, St. Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167





CORNER CONNECTION AT
BOTTOM VENT
SCALE 3/4" = 1"



©2023 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 • Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)			
SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT		W.H. DRAWN BY:	
		DATE:	09/13/2023
		DRAWING No.	23-217
REV. NO.	DESCRIPTION	DATE	REV. NO.
1	OLD 20-222	09/13/23	1
2			4
		SHEET 10 OF 10	