

GENERAL NOTES:

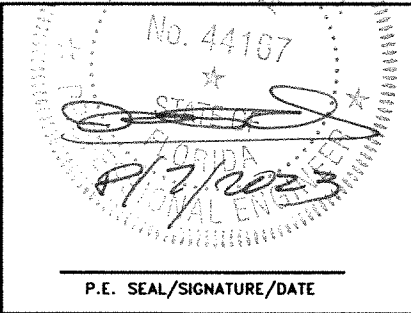
1. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW—LARGE MISSILE IMPACT RESISTANT (TYPICAL & HEAVY SYSTEMS), SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL & HEAVY SYSTEMS) MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z.) OR OUT OF IT (N.H.V.H.Z)..
- 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 PRODUCT'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 # 9073 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 27.
3. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL & HEAVY SYSTEMS) WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
4. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL & HEAVY SYSTEMS) ARE APPROVED FOR AIR AND WATER INFILTRATION.
5. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL & HEAVY SYSTEMS) SHALL COMPLY WITH SECTION 2406 OF THE FLORIDA BUILDING CODE.
6. ALL COMPONENTS FOR THIS PRODUCT SHALL BE AS PER BILL OF MATERIAL & COMPONENTS SHEETS 2, 3 & 4.
7. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 410 AISI SERIES & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
8. WOOD BUCKS BY OTHERS, 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.
- (8.1) 2X 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 2X WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.
- (8.2) 1X 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 & 1X WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.
- (8.3) WINDOW FRAME WITH ADAPTOR (COMPONENT # 6 FOR TYPICAL SYSTEM & COMP. # 1A FOR HEAVY SYSTEM) 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 10) MAY BE ALLOWED AT WINDOW FRAME ANCHOR LOCATION IF NEEDED.

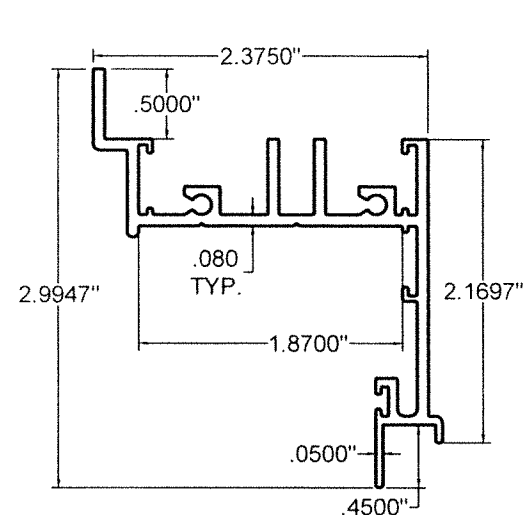
THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

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

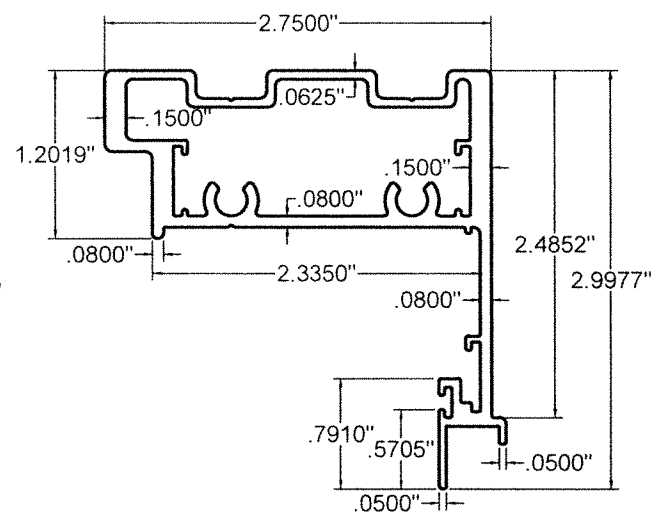
- TO EXISTING POURED CONCRETE: (MIN. $f'_c = 3000$ psi)
- 1/4"Ø TAPCON ANCHOR W/ 1 3/4" MIN. EMBEDMENT, 2 1/2" MIN. EDGE DISTANCE & 4" MIN. SPACING, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 12). SEE NOTE 8.
 - 1/4"Ø KWIK-CON II W/ 1 3/4" MIN. EMBEDMENT, 1 1/2" MIN. EDGE DISTANCE & 3" MIN. SPACING, AS MANUFACTURED BY HILTI, INC. (COMPONENT 12A). SEE NOTE 8.
- (B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL.
- 1/4"Ø TAPCON ANCHOR W/ 1" MIN. EMBEDMENT, 2 1/2" MIN. EDGE DISTANCE & 4" MIN. SPACING. AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 12). SEE NOTE 8.
 - 1/4"Ø KWIK-CON II W/ 1" MIN. EMBEDMENT, 1 1/2" MIN. EDGE DISTANCE & 3" MIN. SPACING, AS MANUFACTURED BY HILTI, INC. (COMPONENT 12A). SEE NOTE 8.
- (C) TO EXISTING 2xP.T. WOOD BUCK. OR WOOD STRUCTURE MIN. EDGE DISTANCE (E.D.)=1" & 3" MIN. SPACING.
- 1/4"Ø-14 TAPCON ANCHORS W/ 1 1/2" MIN. PENETRATION, 1" MIN. EDGE DISTANCE & 3" MIN. SPACING. AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 12). SEE NOTE 8.
 - 1/4"Ø KWIK-CON II W/ 1 1/2" MIN. EMBEDMENT, 1" MIN. EDGE DISTANCE & 3" MIN. SPACING, AS MANUFACTURED BY HILTI, INC. (COMPONENT 12A). SEE NOTE 8.
- (D) TO EXISTING MIN. 1/8" THICK ALUMINUM TUBE (6063-T5 ALLOY) MIN. EDGE DISTANCE (E.D.) = 1/2" & 2" MIN. SPACING.
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 13). THREADS SHALL GO THRU THE TUBE THICKNESS.
- (E) TO EXISTING MIN. 1/8" THICK STEEL MEMBER (ASTM A-500, A-653 OR A-36) MIN. EDGE DISTANCE (E.D.) = 1/2" & 2" MIN. SPACING.
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 13). THREADS SHALL GO THRU THE FULL TUBE THICKNESS.
10. PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE (TYP.).
11. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.
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.

13. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL OR HEAVY SYSTEMS) MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY UNIT.

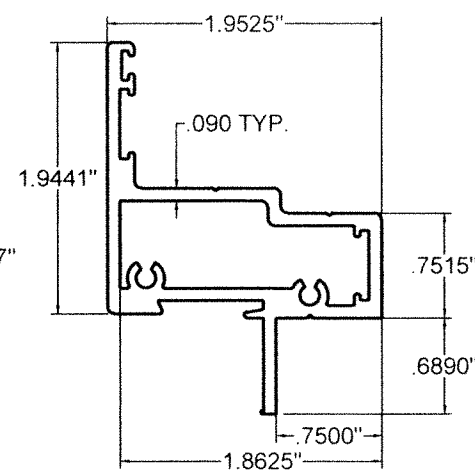
		FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)	
©2023 TILTECO, INC.		SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW—LMI (TYPICAL & HEAVY SYSTEMS)	
			
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530, Fax : (305)871-1531 CA-0006719		290 WEST 78 ROAD HALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com	
WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		W.H. DRAWN BY: 08/07/2023 DATE: 23-154 DRAWING No.	
P.E. SEAL/SIGNATURE/DATE		SHEET 1 OF 33	
REV. NO. DESCRIPTION DATE		REV. No. DESCRIPTION DATE	
1 OLD 20-273 06/07/23		2	



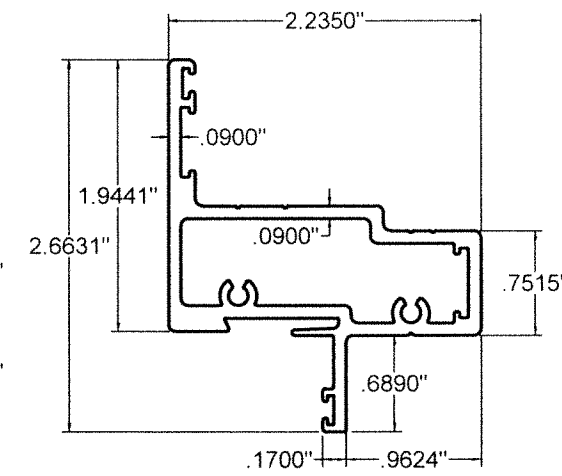
① **FRAME**
(TYPICAL SYSTEM)



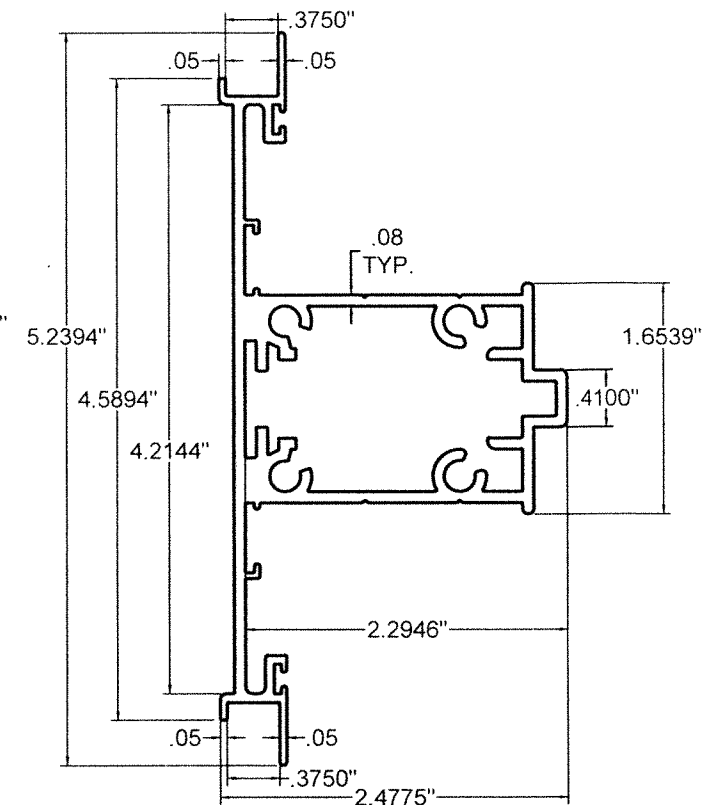
①A **ALTERNATE FRAME W/ ADAPTOR**
(HEAVY SYSTEM)



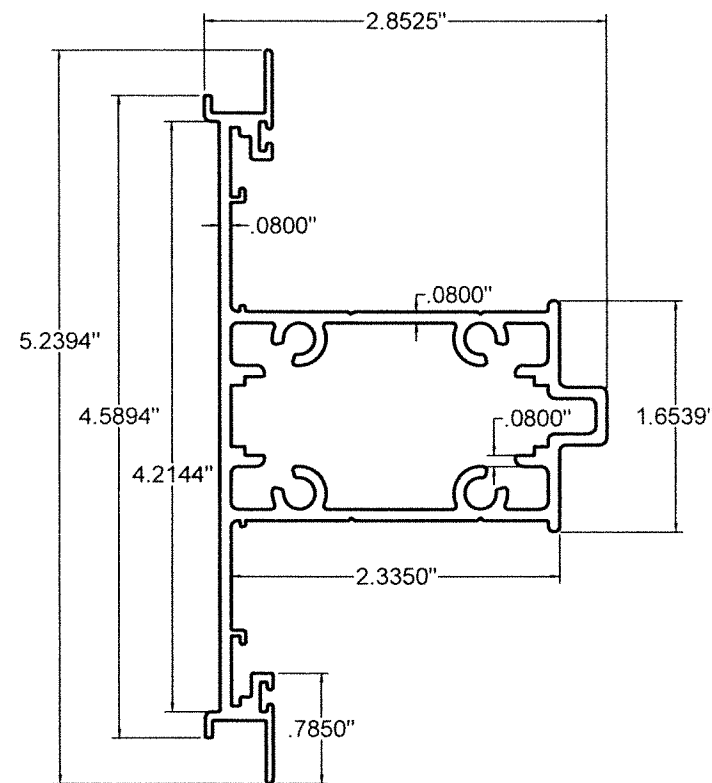
② **VENT FRAME**
(TYPICAL SYSTEM)



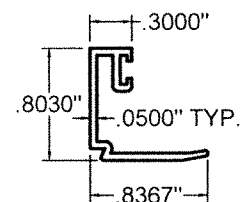
②A **ALTERNATE VENT FRAME**
(HEAVY SYSTEM)



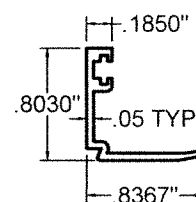
③ **CENTER POST**
(TYPICAL SYSTEM)



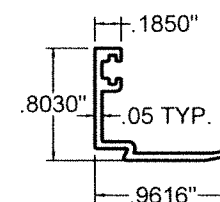
③A **ALTERNATE CENTER POST**
(HEAVY SYSTEM)



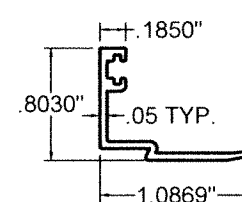
④A **GLAZING BEAD 5/16"**
(TYPICAL & HEAVY SYSTEM)



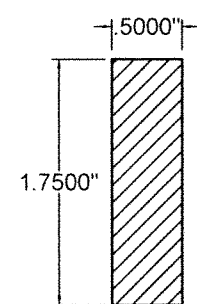
④B **GLAZING BEAD 7/16"**
(TYPICAL & HEAVY SYSTEM)



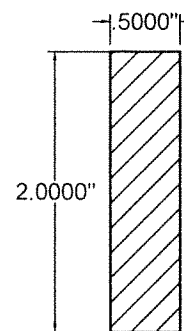
④C **GLAZING BEAD 9/16"**
(TYPICAL & HEAVY SYSTEM)



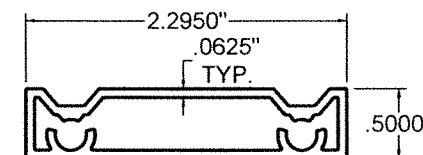
④D **GLAZING BEAD 11/16"**
(TYPICAL & HEAVY SYSTEM)



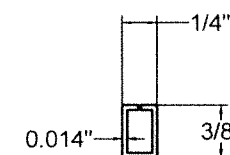
⑤ **ALUM. INSERT BAR**
(TYPICAL SYSTEM)



⑤A **ALTERNATE ALUM. INSERT BAR**
(HEAVY SYSTEM)



⑥ **EQUAL FRAME ADAPTOR**
(TYPICAL SYSTEM)

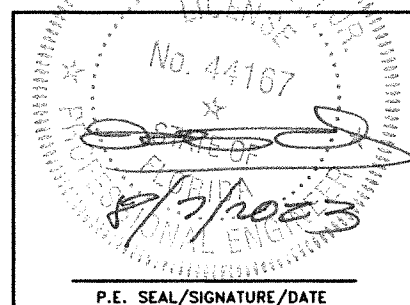


③9 **INSULATED GLASS UNIT SPACER**

COMPONENTS

(TYPICAL & HEAVY SYSTEMS)*
SCALE 3/4"=1"

* TYPICAL & HEAVY SYSTEMS SHALL NOT BE COMBINED (MIXED) BETWEEN EACH OTHER.



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

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WALTER A. TILLIT Jr. P.E.
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SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)



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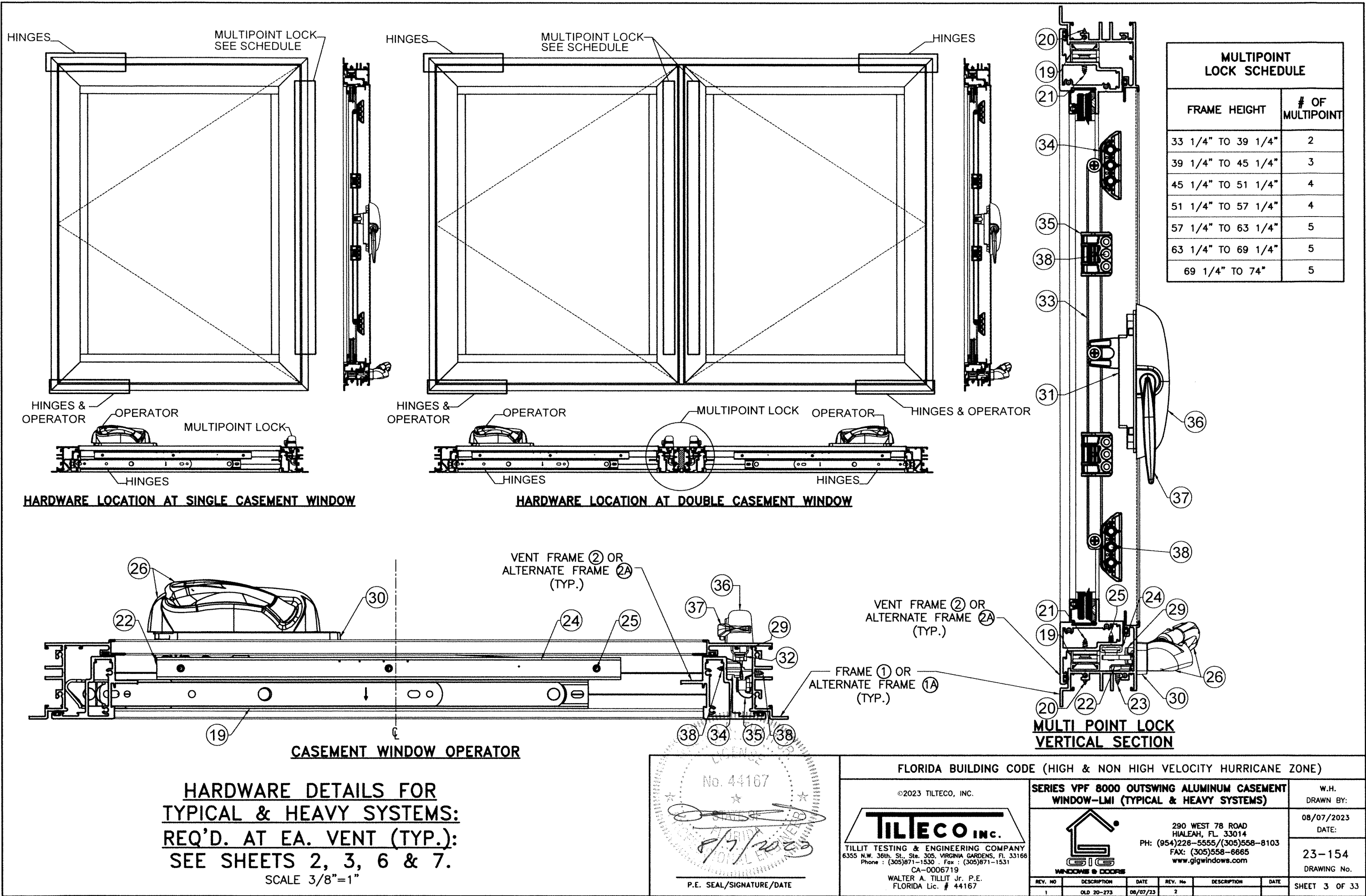
W.H.
DRAWN BY:

08/07/2023
DATE:

23-154
DRAWING No.

REV. NO.	DESCRIPTION	DATE	REV. No.	DESCRIPTION	DATE
1	OLD 20-273	06/07/23	2		

SHEET 2 OF 33



**HARDWARE DETAILS FOR
TYPICAL & HEAVY SYSTEMS:
REQ'D. AT EA. VENT (TYP.):
SEE SHEETS 2, 3, 6 & 7.
SCALE 3/8"=1"**

No. 44167
8/7/2023
P.E. SEAL/SIGNATURE/DATE

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

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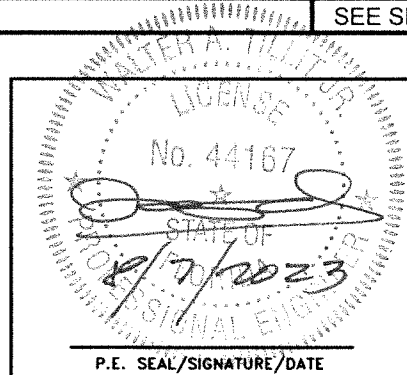
**SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT
WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)**


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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-273	08/07/23	2		

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DRAWN BY:
08/07/2023
DATE:
23-154
DRAWING No.
SHEET 3 OF 33

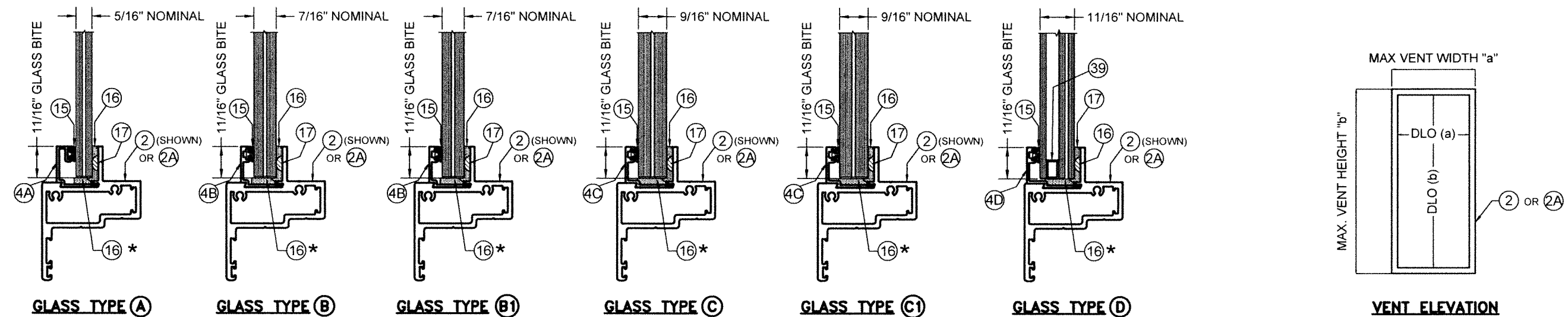
BILL OF MATERIALS: SINGLE & DOUBLE CASEMENT WINDOW (SEE SHEETS 6 & 7): TYPICAL & HEAVY SYSTEMS			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
1	FRAME (TYPICAL SYSTEM)	SHEET 2	6063-T6 ALUMINUM
1A	ALTERNATE FRAME WITH ADAPTOR (HEAVY SYSTEM)	SHEET 2	6063-T6 ALUMINUM
2	VENT FRAME (TYPICAL SYSTEM)	SHEET 2	6063-T6 ALUMINUM
2A	ALTERNATE VENT FRAME (HEAVY SYSTEM)	SHEET 2	6063-T6 ALUMINUM
3	CENTER POST (TYPICAL SYSTEM)	SHEET 2	6063-T6 ALUMINUM
3A	ALTERNATE CENTER POST (HEAVY SYSTEM)	SHEET 2	6063-T6 ALUMINUM
4A	GLAZING BEAD 5/16" (TYPICAL & HEAVY SYSTEMS)	SHEET 2	6063-T6 ALUMINUM
4B	GLAZING BEAD 7/16" (TYPICAL & HEAVY SYSTEMS)	SHEET 2	6063-T6 ALUMINUM
4C	GLAZING BEAD 9/16" (TYPICAL & HEAVY SYSTEMS)	SHEET 2	6063-T6 ALUMINUM
4D	GLAZING BEAD 11/16" (TYPICAL & HEAVY SYSTEMS)	SHEET 2	6063-T6 ALUMINUM
5	ALUMINUM INSERT BAR (TYPICAL SYSTEM)	SHEET 2	6063-T6 ALUMINUM
5A	ALTERNATE ALUMINUM INSERT BAR (HEAVY SYSTEM)	SHEET 2	6063-T6 ALUMINUM
6	EQUAL FRAME ADAPTOR	SHEET 2	6063-T6 ALUMINUM
8	FRAME & VENT ASSEMBLY SCREWS	#8-32 x 3/4" P.H. M.S.	ST. STEEL
9	CENTER POST ASSEMBLY SCREWS	#14 x 2-3/4" H.H. TEK SCREWS	STEEL
12	1/4"Ø TAPCON (ITW /BUILDEX)	1/4" Ø (SEE NOTE 9/1)	STEEL
12A	1/4"Ø-14 KWI-KON II (HILTI)	1/4" Ø (SEE NOTE 9/1)	STEEL
13	1/4"Ø-14 TEK SCREW (ITW /BUILDEX)	1/4" Ø (SEE NOTE 9/1)	STEEL
14	CORNER LOCK, 0.050" THK. x 1.7430" x 1.7430" x 0.473"	SULLIVAN ASSOCIATES	ST. STEEL
15	GLAZING BULB	0.250"x0.345" (ULTRAFAB)	VINYL
16	STRUCTURAL SILICONE DOW CORNING 995	ALL AROUND GLASS	SILICONE
17	BUMPER SPHEAR	-	SILICONE
18	NON STRUCTURAL SILICONE DOW CORNING CONTRACTORS, CONCRETE SEALANT (CCS)	AS SHOWN	SILICONE
19	4 BAR HINGE HEAVY DUTY	INTERLOCK	304 S.S.
20	HINGE MOUNTING SCREWS AT FRAME	#10 x 5/8" PH SMS. SEE SHEET 3	ST. STEEL
21	HINGE MOUNTING SCREWS AT VENT	#10 x 5/8" PH SMS. SEE SHEET 3	ST. STEEL
22	SINGLE ARM OPERATOR LEFT HANDING FOR CASEMENT	SEE SHEET 3	ST. STEEL
23	SINGLE ARM OPERATOR LEFT HANDING SCREWS	#10-24 X 1/2" F.H. M.S.	ST. STEEL
24	SINGLE ARM OPERATOR TRACK	SEE SHEET 3	-
25	SINGLE ARM OPERATOR TRACK SCREWS & SASH BRACKET MOUNTING SCREW & AWNING OPERATOR NARROW-STAINLESS	#8-32 X 5/8" F.H. SCREWS	ST. STEEL
26	OPERATOR COVER AND HANDLE	SEE SHEET 3	-
29	RETAINER CLIP	SEE SHEET 3	ST. STEEL
30	CASEMENT & AWNING FACE SPACER	SEE SHEET 3	-
31	MULTI-POINT LOCK MECHANISM	SEE SHEET 3	ST. STEEL
32	MULTI-POINT LOCK MECHANISM MOUNTING SCREWS	#8-32 X 3/4" F.H. MS	ST. STEEL
33	LOCKING BARS	SEE SHEET 3	ST. STEEL
34	CASEMENT STRIKE	SEE SHEET 3	-
35	CASEMENT GUIDE	SEE SHEET 3	-
36	SNAP ON COVER	SEE SHEET 3	-
37	SNAP ON HANDLE	SEE SHEET 3	-
38	LOCK MOUNTING SCREW AT VENT AND FRAME	#8-32 X 3/4" F.H. MS	ST. STEEL
39	INSULATED GLASS UNIT SPACER	SEE SHEET 2	3105-H24 ALUMINUM



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1	OLD 20-273	08/07/23	2		
W.H. DRAWN BY: 08/07/2023 DATE: 23-154 DRAWING No. SHEET 4 OF 33					

GLASS SCHEDULE		
COMPONENT #	DESCRIPTION	MATERIAL
(A)	5/16" NOMINAL LAMINATED GLASS W/ 1/8" H.S. GLASS +0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/8" H.S. GLASS.	GLASS
(B)	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS.	GLASS
(B1)	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS.	GLASS
(C)	9/16" NOMINAL LAMINATED GLASS W/ 1/4" H.S. GLASS +0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS.	GLASS
(C1)	9/16" NOMINAL LAMINATED GLASS W/ 1/4" H.S. GLASS +0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS.	GLASS
(D)	11/16" NOMINAL INSULATED-LAMINATED GLASS W/ 1/8" TEMPERED GLASS OUT BOARD -1/4 ARGON SPACER + 1/8 H.S. GLASS +0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/8" H.S. GLASS.	GLASS

TYPICAL & HEAVY SYSTEMS					
MAX. A.S.D. PRESSURE RATING FOR A GIVEN GLASS TYPE AND CORRESPONDING MAX. VENT WIDTHS AND VENT HEIGHTS					
GLASS TYPE	MAX. A.S.D. DESIGN PRESSURE RATING	MAX. VENT WIDTH "a"	MAX. VENT HEIGHT "b"	MAX. D.L.O. WIDTH (a)	MAX. D.L.O. HEIGHT (b)
(A), (B), (C), (D)	+72.0 , -72.0 psf	41"	72 1/2"	35 5/8"	67 3/16"
(B1), (C1)	+105.0 , -105.0 psf.	41"	53 3/8"	35 5/8"	48 1/16"
(B1), (C1)	+110.0 , -110.0 psf.	39"	56 3/8"	33 5/8"	51 1/16"
(B1), (C1)	+120.0 , -120.0 psf.	36"	61 3/8"	30 5/8"	56 1/16"



GLASS CONFIGURATIONS

*USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.

WALTER A. TILLIT, JR.
P.E. SEAL/SIGNATURE/DATE

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

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FLORIDA Lic. # 44167

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

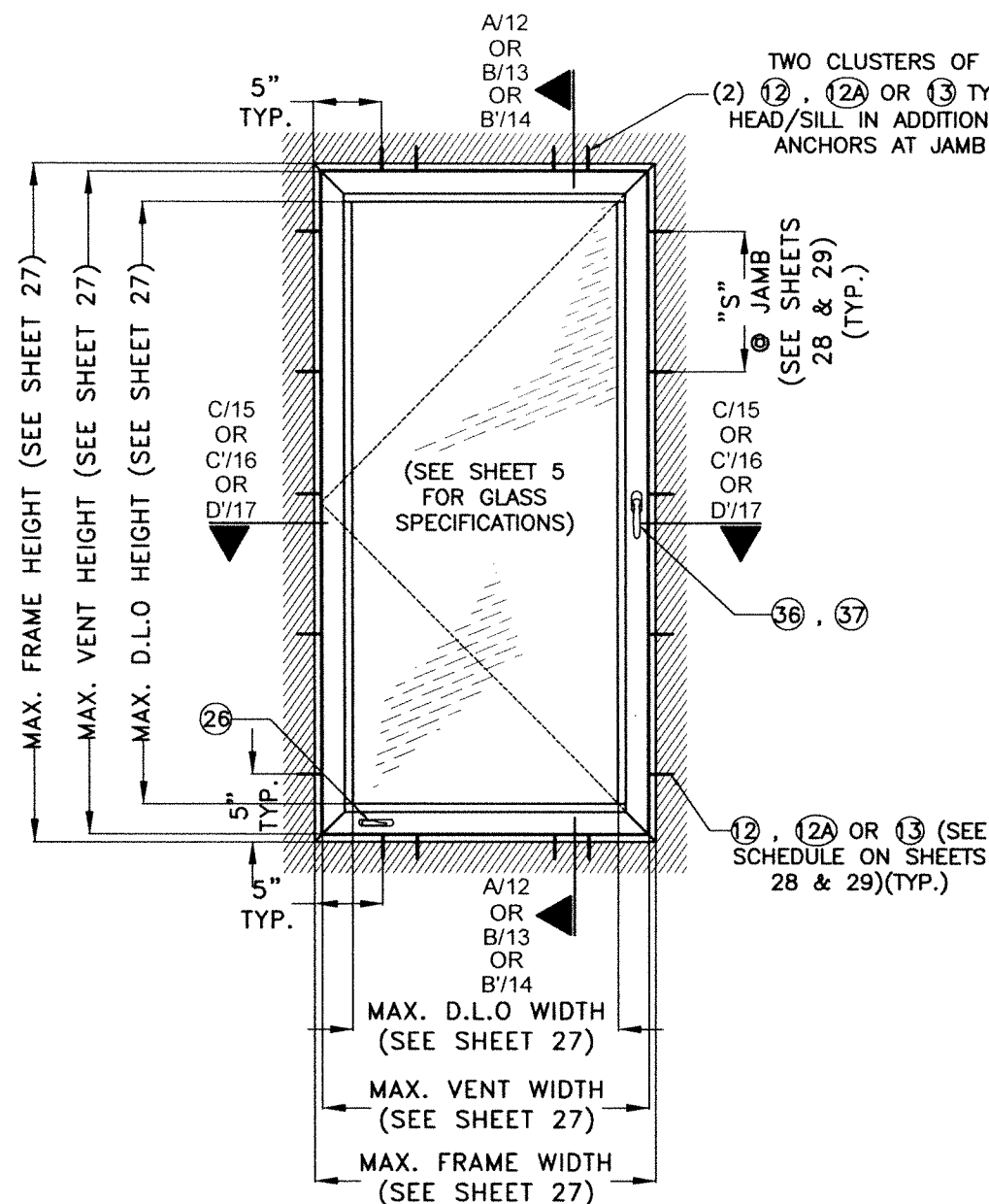
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08/07/2023
DATE:
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REV. NO. MDC COMMENTS 6/5/17 1 MDC COMMENTS 8/6/23 2

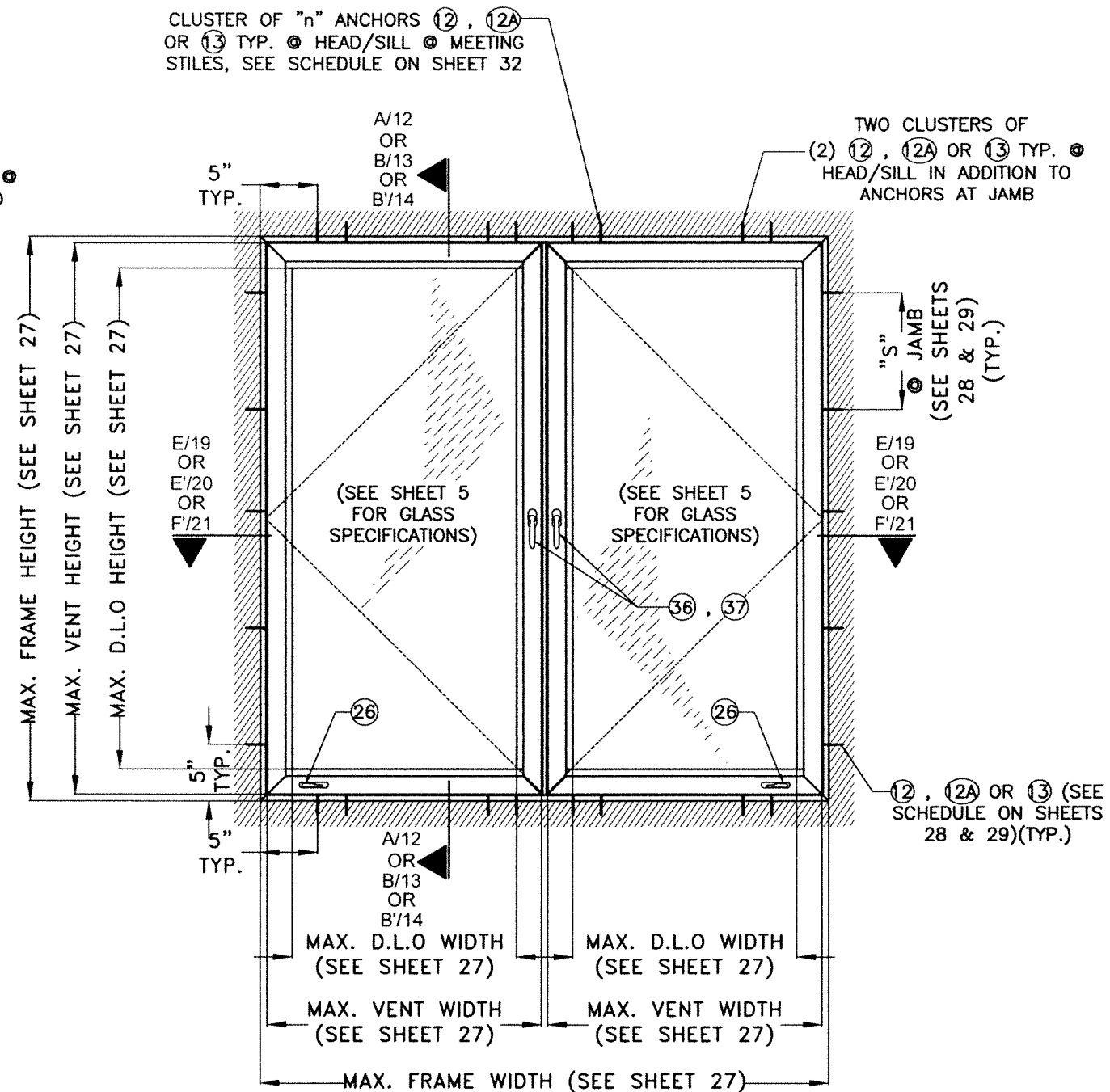
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SHEET 5 OF 33



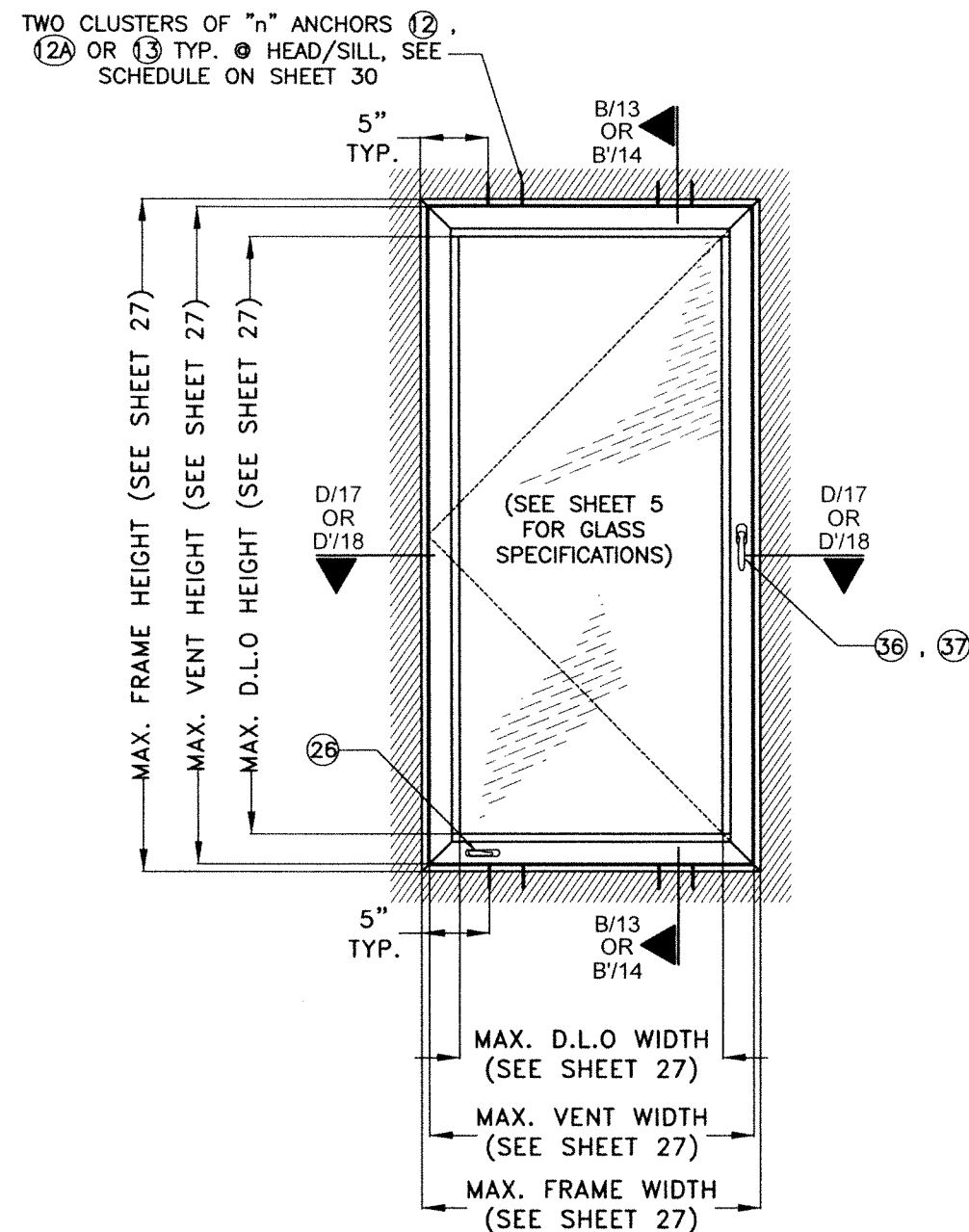
**TYPICAL EXTERIOR ELEVATION
SINGLE VENT (TYPICAL OR HEAVY SYSTEMS)
CASEMENT WINDOW W/ ATTACHED JAMBS***
SCALE: 3/4"=1'-0"

* NOTE: JAMBS MAY ALSO BE ATTACHED ONLY ON ONE SIDE & FREE STANDING ON THE OTHER SIDE (W/ ADAPTOR # 6 FOR TYPICAL SYSTEM, OR 1A FRAME FOR HEAVY SYSTEM) AS PER DETAILS ON SHEETS 6, 7.



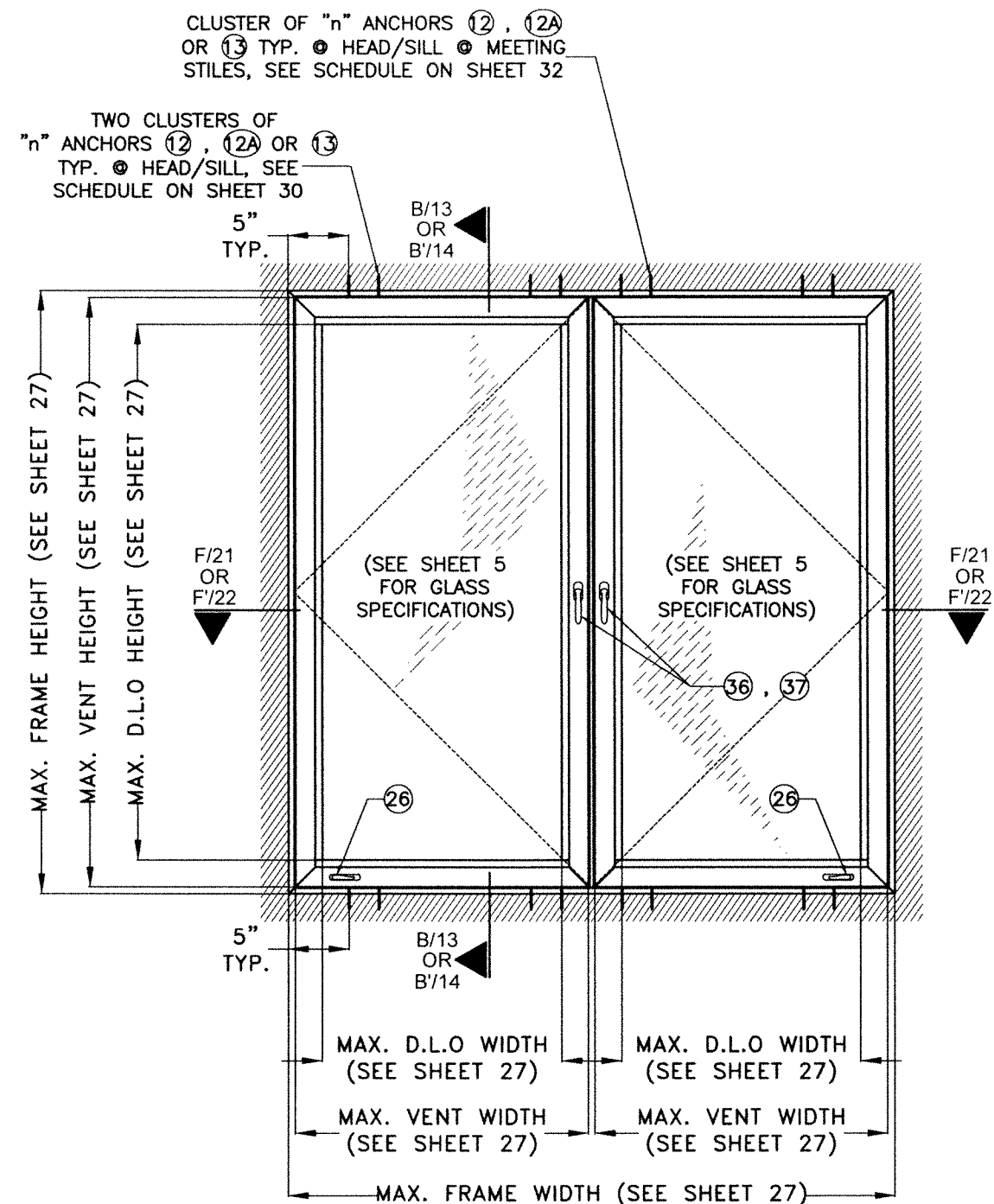
**TYPICAL EXTERIOR ELEVATION
DOUBLE VENT (TYPICAL OR HEAVY SYSTEMS)
CASEMENT WINDOW W/ ATTACHED JAMBS***
SCALE: 3/4"=1'-0"

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**TYPICAL EXTERIOR ELEVATION
SINGLE VENT (TYPICAL OR HEAVY SYSTEMS)
CASEMENT WINDOW W/ NOT ATTACHED JAMBS***
SCALE: 3/4"=1'-0"

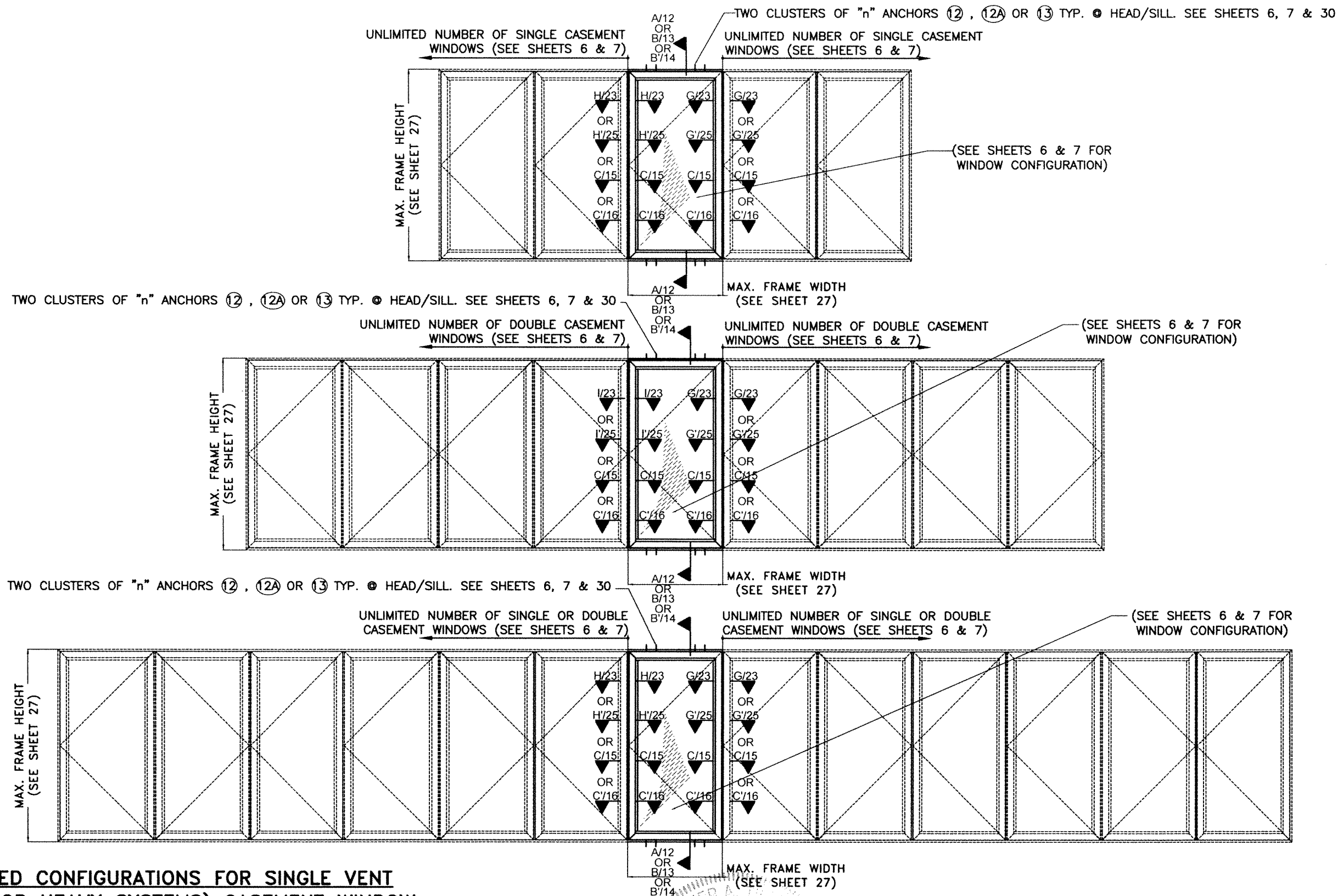
* NOTE: JAMBS MAY ALSO BE ATTACHED ONLY ON ONE SIDE & FREE STANDING ON THE OTHER SIDE (W/ ADAPTOR # ⑥ FOR TYPICAL SYSTEM, OR ①A FRAME FOR HEAVY SYSTEM) AS PER DETAILS ON SHEETS 6, 7.



**TYPICAL EXTERIOR ELEVATION
DOUBLE VENT (TYPICAL OR HEAVY SYSTEMS)
CASEMENT WINDOW W/ NOT ATTACHED JAMBS***
SCALE: 3/4"=1'-0"

WALTER A. TILLIT JR.
P.E.
No. 44167
8/2/2023
P.E. SEAL/SIGNATURE/DATE

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1	OLD 20-273	08/07/23	2		
SHEET 7 OF 33					



**QUALIFIED CONFIGURATIONS FOR SINGLE VENT
(TYPICAL OR HEAVY SYSTEMS) CASEMENT WINDOW
W/ ACCOMPANYING SINGLE, DOUBLE OR
COMBINATION OF SINGLE AND DOUBLE VENT
(TYPICAL OR HEAVY SYSTEMS) CASEMENT WINDOWS
TYPICAL EXTERIOR ELEVATIONS**

SCALE 3/8"=1'-0"

WALTER A. TILLIT JR. P.E.
No. 44167
8/7/2023
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**SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT
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1	OLD 20-273	08/07/23	2		

SHEET 8 OF 33

CLUSTER OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL • MEETING STILES. SEE SHEET 32

TWO CLUSTERS OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL. SEE SHEETS 6, 7 & 30

UNLIMITED NUMBER OF SINGLE CASEMENT
WINDOWS (SEE SHEETS 6 & 7)

UNLIMITED NUMBER OF SINGLE CASEMENT
WINDOWS (SEE SHEETS 6 & 7)

MAX. FRAME HEIGHT
(SEE SHEET 27)

(SEE SHEETS 6 & 7 FOR
WINDOW CONFIGURATION)

MAX. FRAME WIDTH
(SEE SHEET 27)

CLUSTER OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL • MEETING STILES. SEE SHEET 32

TWO CLUSTERS OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL. SEE SHEETS 6, 7 & 30

UNLIMITED NUMBER OF DOUBLE CASEMENT
WINDOWS (SEE SHEETS 6 & 7)

UNLIMITED NUMBER OF DOUBLE CASEMENT
WINDOWS (SEE SHEETS 6 & 7)

(SEE SHEETS 6 & 7 FOR
WINDOW CONFIGURATION)

MAX. FRAME HEIGHT
(SEE SHEET 27)

MAX. FRAME WIDTH
(SEE SHEET 27)

CLUSTER OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL • MEETING STILES. SEE SHEET 32

TWO CLUSTERS OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL. SEE SHEETS 6, 7 & 30

UNLIMITED NUMBER OF SINGLE OR DOUBLE
CASEMENT WINDOWS (SEE SHEETS 6 & 7)

UNLIMITED NUMBER OF SINGLE OR DOUBLE
CASEMENT WINDOWS (SEE SHEETS 6 & 7)

(SEE SHEETS 6 & 7 FOR
WINDOW CONFIGURATION)

MAX. FRAME HEIGHT
(SEE SHEET 27)

MAX. FRAME WIDTH
(SEE SHEET 27)

**QUALIFIED CONFIGURATIONS FOR DOUBLE VENT (TYPICAL OR
HEAVY SYSTEMS) CASEMENT WINDOW W/ ACCOMPANYING SINGLE,
DOUBLE VENT OR COMBINATION OF SINGLE AND DOUBLE VENT
(TYPICAL OR HEAVY SYSTEMS) CASEMENT WINDOWS
TYPICAL EXTERIOR ELEVATIONS**

SCALE 3/8"=1'-0"

Professional Engineer Seal for Walter A. Tillit Jr., P.E., State of Florida, License No. 44167, dated 8/9/2023.

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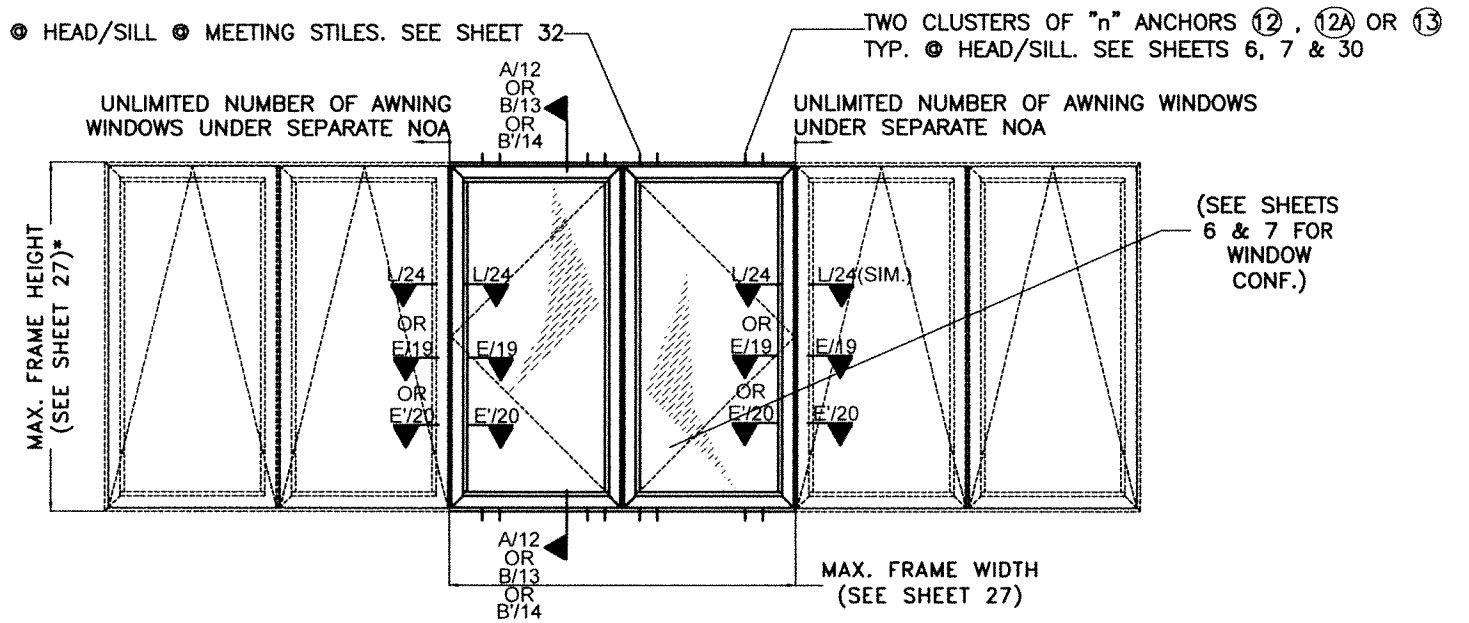
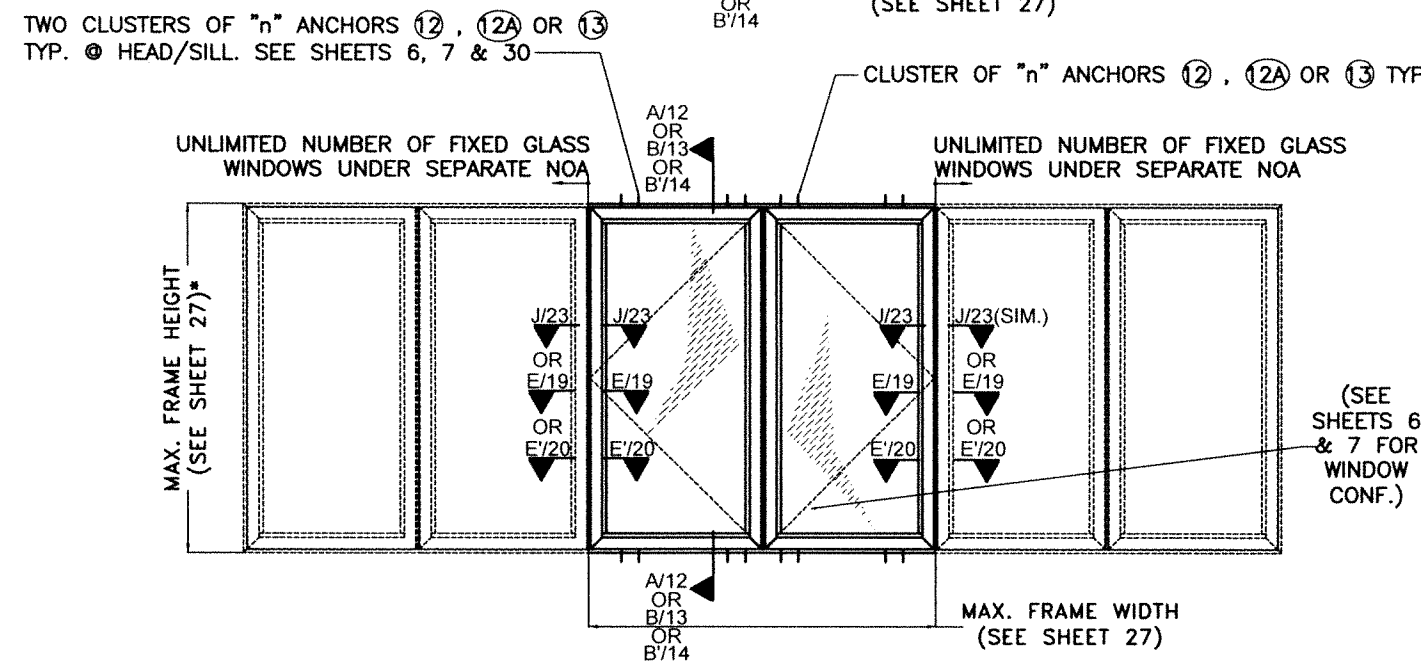
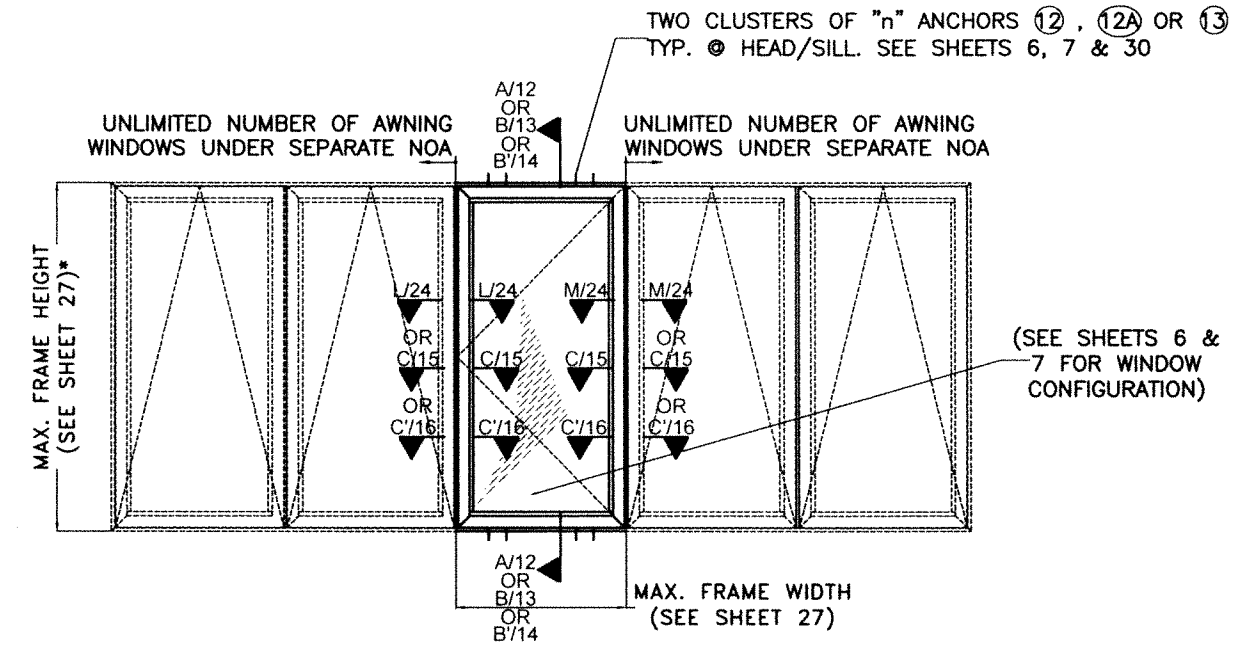
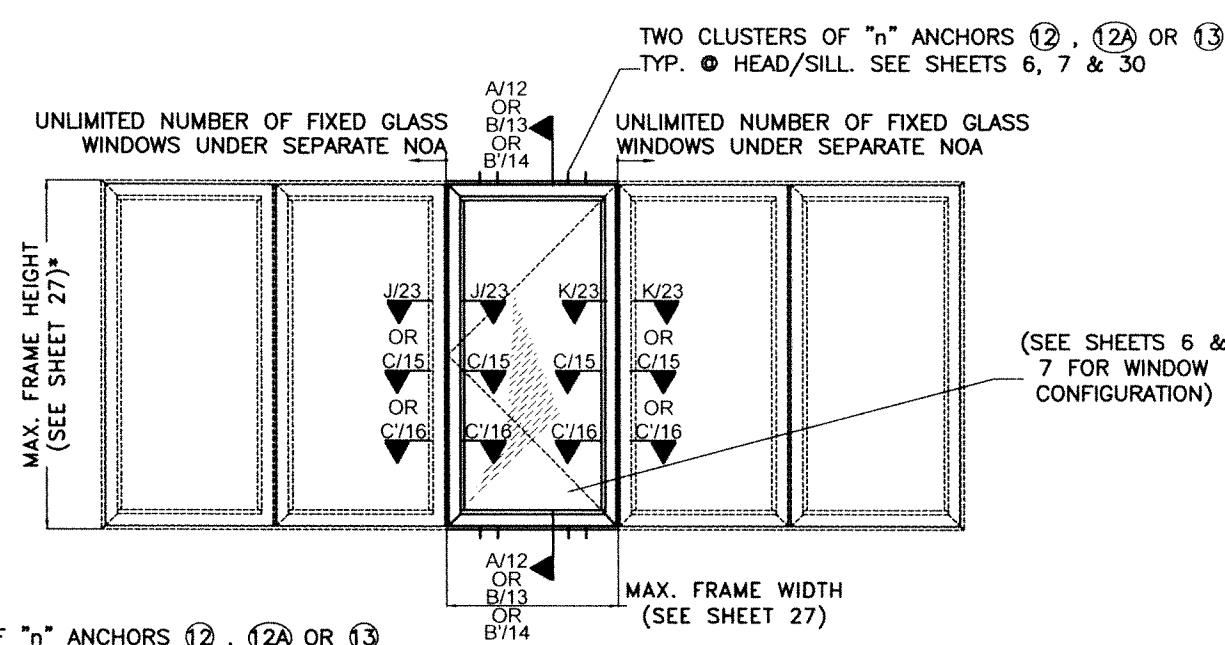
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**SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT
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SHEET 9 OF 33

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1	OLD 20-273	06/07/23	2		



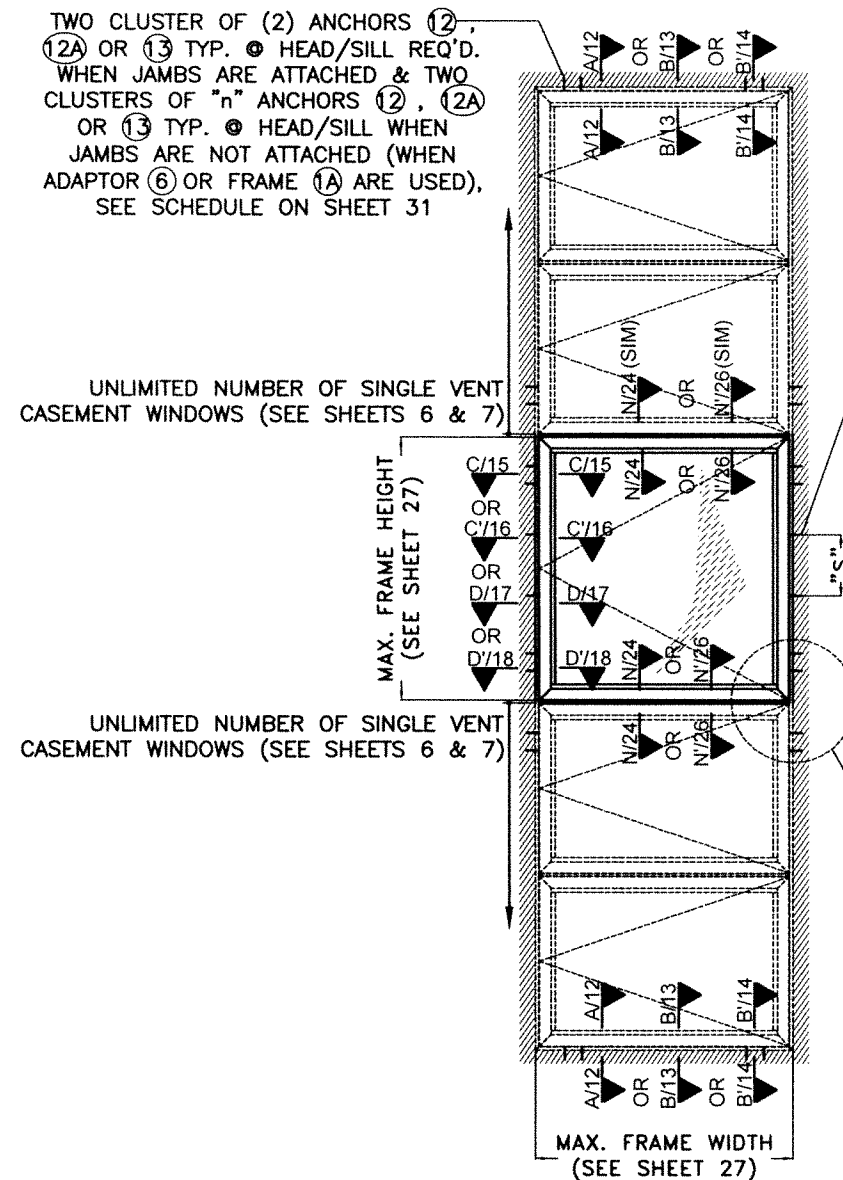
**QUALIFIED CONFIGURATIONS FOR
SINGLE/DOUBLE (TYPICAL SYSTEM ONLY)
CASEMENT WINDOW W/ ACCOMPANYING
FIXED WINDOWS (UNDER SEPARATE NOA)
TYPICAL EXTERIOR ELEVATION
SCALE 3/8"=1'-0"**

**QUALIFIED CONFIGURATIONS FOR SINGLE/DOUBLE
(TYPICAL SYSTEM ONLY) CASEMENT WINDOW W/
ACCOMPANYING AWNING WINDOWS
(UNDER SEPARATE NOA)
TYPICAL EXTERIOR ELEVATION
SCALE 3/8"=1'-0"**

* MAX. FRAME HEIGHT & FRAME WIDTH OF ACCOMPANYING FIXED OR AWNING WINDOWS SHALL BE AS PER SEPARATE NOA AND THE SHORTEST FRAME HEIGHT OF EITHER WINDOW TYPE SHALL BE USED.

WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE
8/7/2023
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1	OLD 20-273	08/07/23	2
SHEET 10 OF 33			W.H. DRAWN BY: 08/07/2023 DATE: 23-154 DRAWING No.



**QUALIFIED CONFIGURATIONS FOR SINGLE VENT
(TYPICAL OR HEAVY SYSTEMS) CASEMENT
WINDOW W/ COMBINATION OF VERTICAL
ACCOMPANYING SINGLE VENT (TYPICAL OR
HEAVY SYSTEMS) CASEMENTS WINDOWS
TYPICAL EXTERIOR ELEVATION**

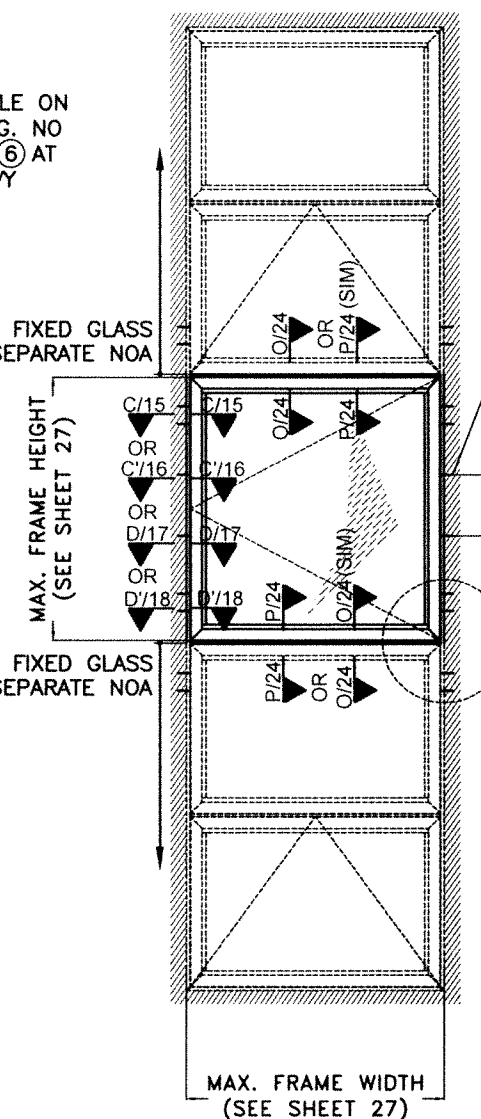
SCALE 3/8"=1'-0"

ANCHORS 12, 12A OR 13 TYP. REQ'D. WHEN ADAPTOR (COMP. 6 AT TYPICAL SYSTEM) IS NOT USED AT JAMBS, AS DETAILED ON SHEET C/15 SEE SCHEDULE ON SHEETS 28 & 29 FOR ANCHOR SPACING. NO ANCHOR IS REQ'D. IF ADAPTOR (COMP. 6 AT TYPICAL SYSTEM OR FRAME 1A AT HEAVY SYSTEM) ARE USED AT JAMBS, AS PER DETAIL ON SHEET D/17 & D/18

UNLIMITED NUMBER OF AWNING & FIXED GLASS WINDOWS IN ANY SEQUENCE UNDER SEPARATE NOA

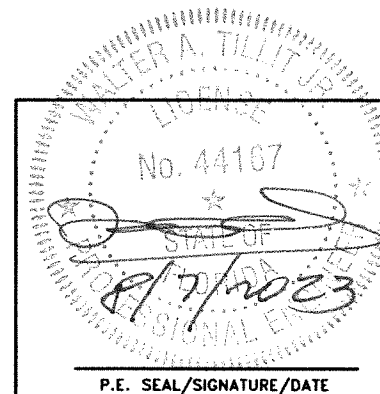
UNLIMITED NUMBER OF AWNING & FIXED GLASS WINDOWS IN ANY SEQUENCE UNDER SEPARATE NOA

CLUSTER OF "n" ANCHORS 12, 12A OR 13 TYP. @ EA. END OF HORIZONTAL CENTER POST 3 TYP. EA. JAMB, SEE SCHEDULE ON SHEET 33

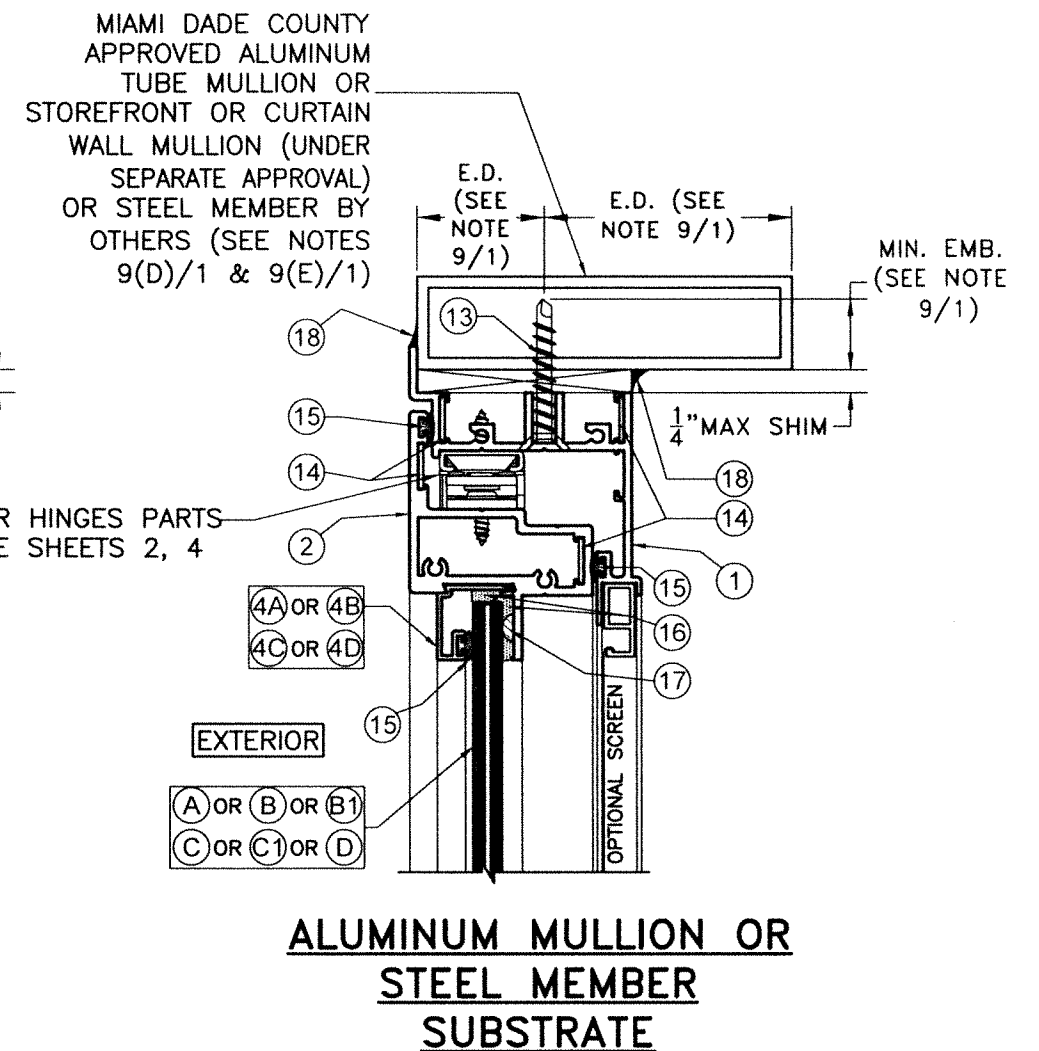
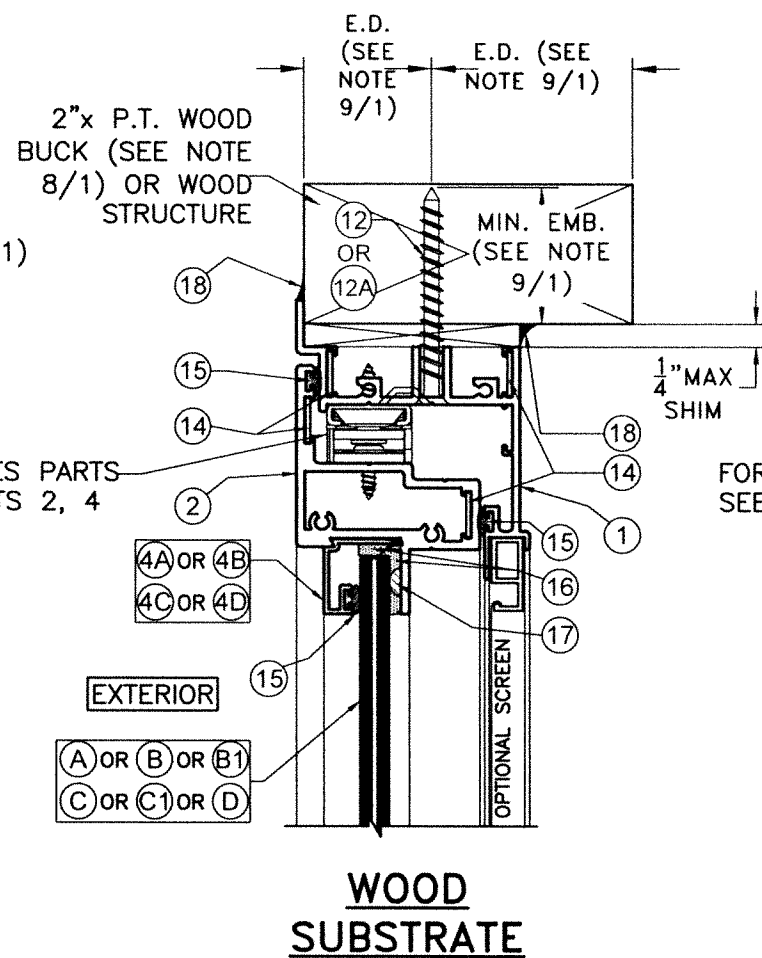
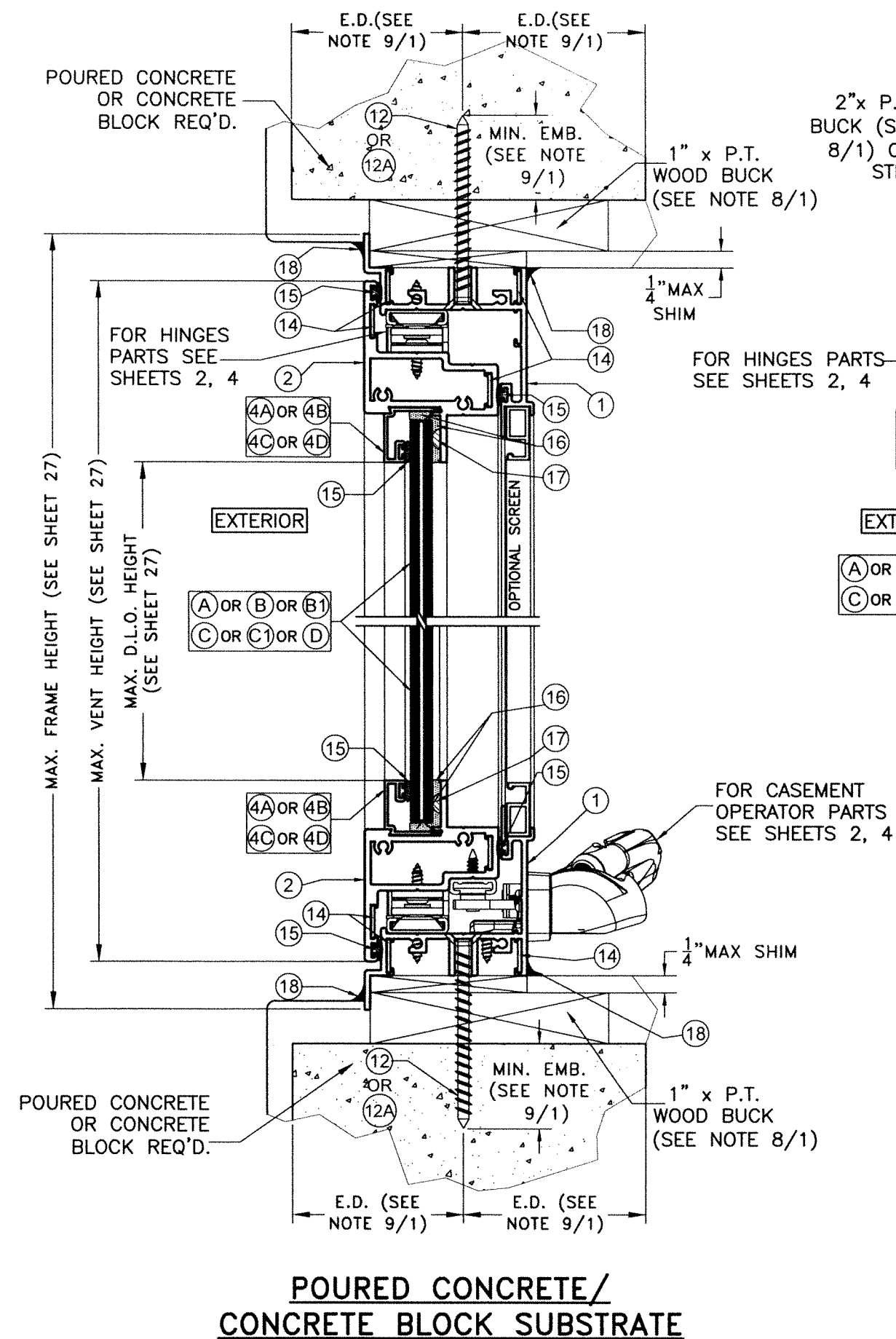


**QUALIFIED CONFIGURATIONS FOR SINGLE VENT
(TYPICAL SYSTEM ONLY) CASEMENT WINDOW
W/ COMBINATION OF VERTICAL ACCOMPANYING
FIXED & AWNING WINDOWS
(UNDER SEPARATE NOA)
TYPICAL EXTERIOR ELEVATION**

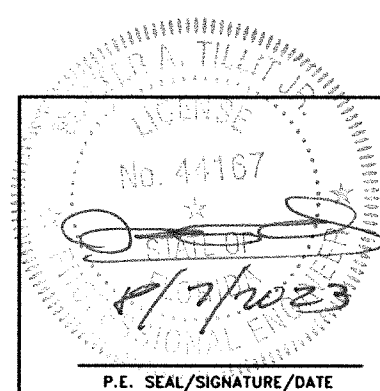
SCALE 3/8"=1'-0"



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1	OLD 20-273	06/07/23	2		
SHEET 11 OF 33					

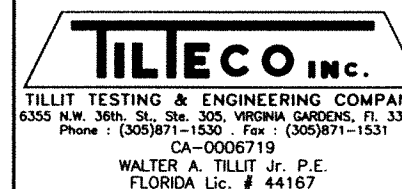


SECTION A-A
(TYPICAL SYSTEM)
SCALE 1/2"=1"



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SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

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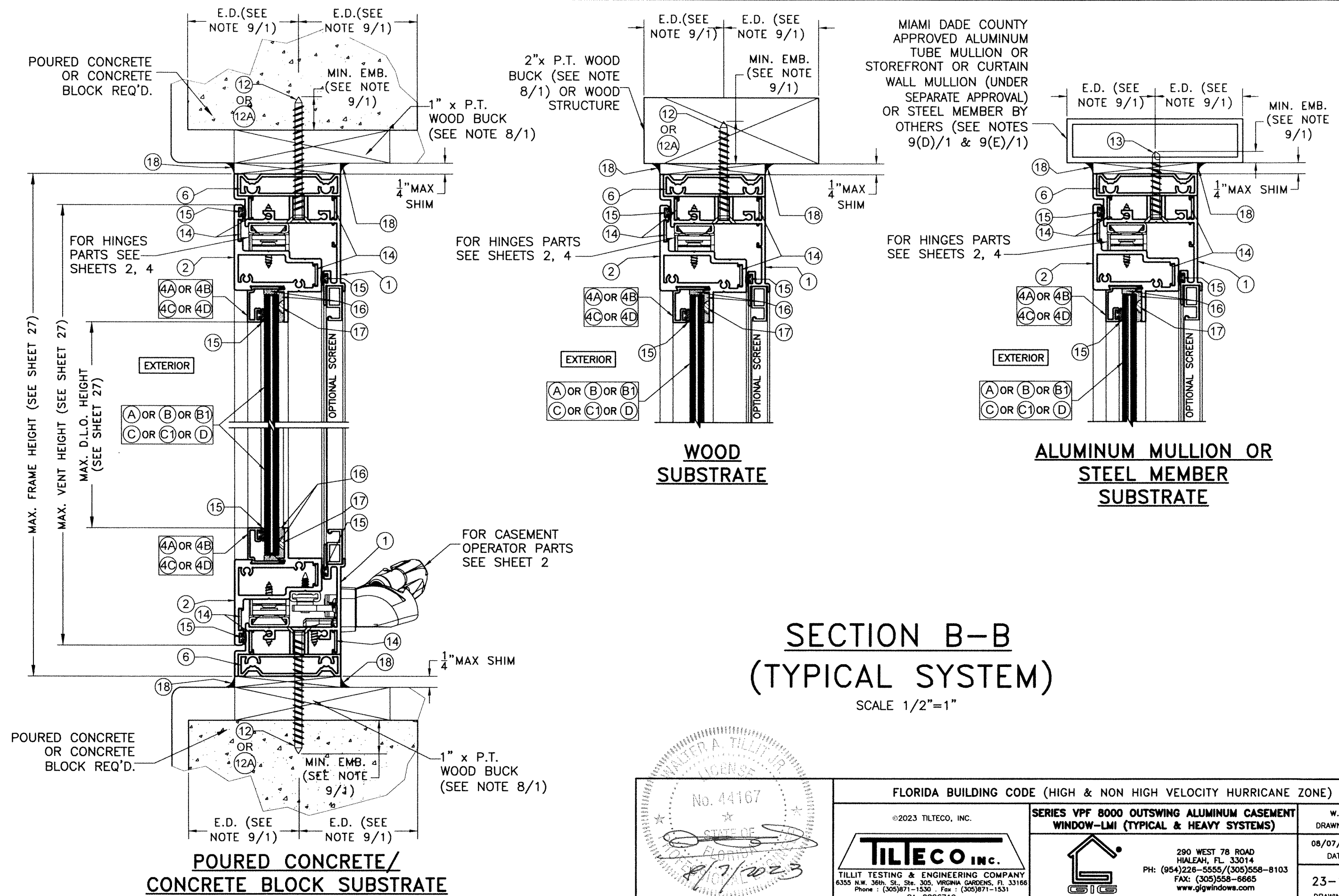
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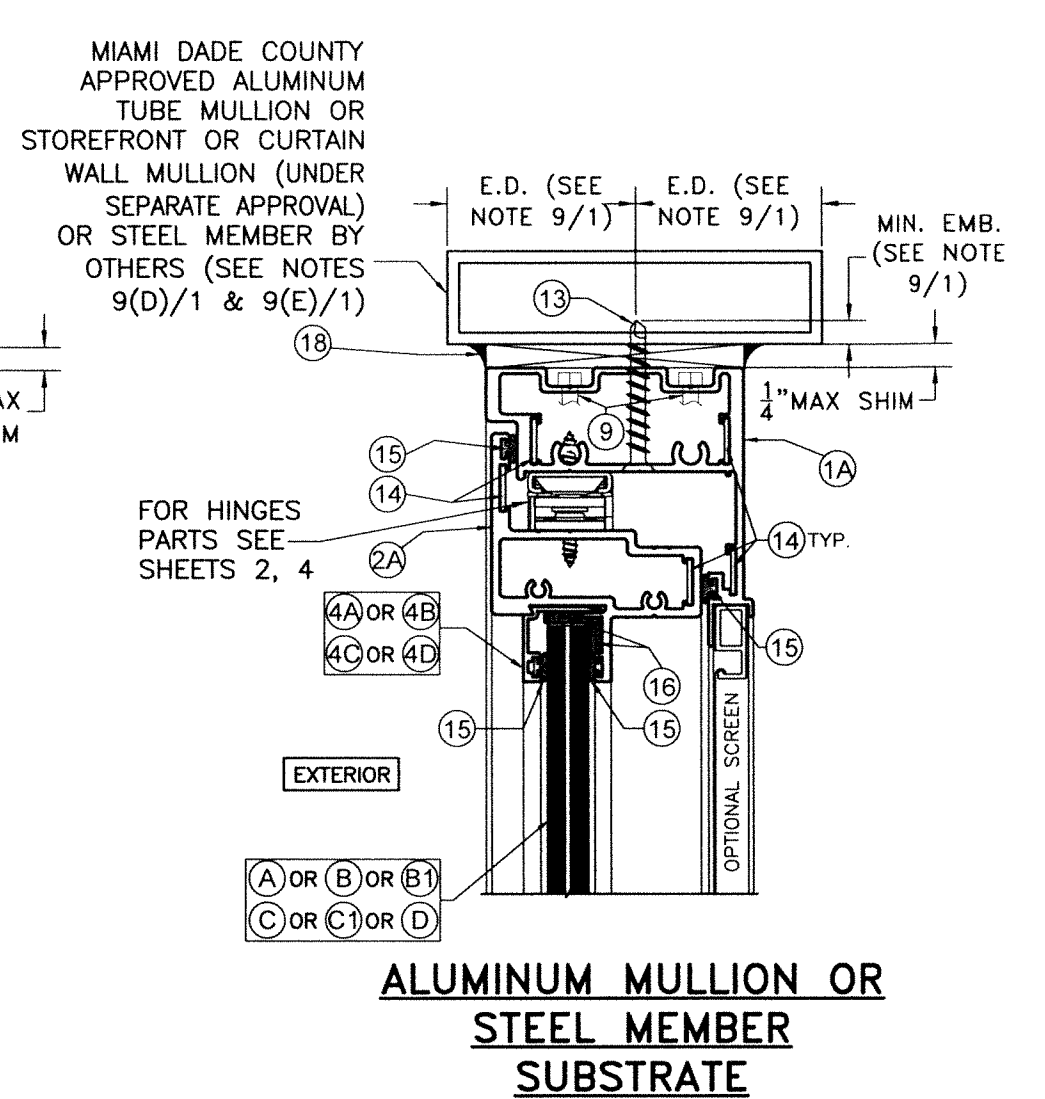
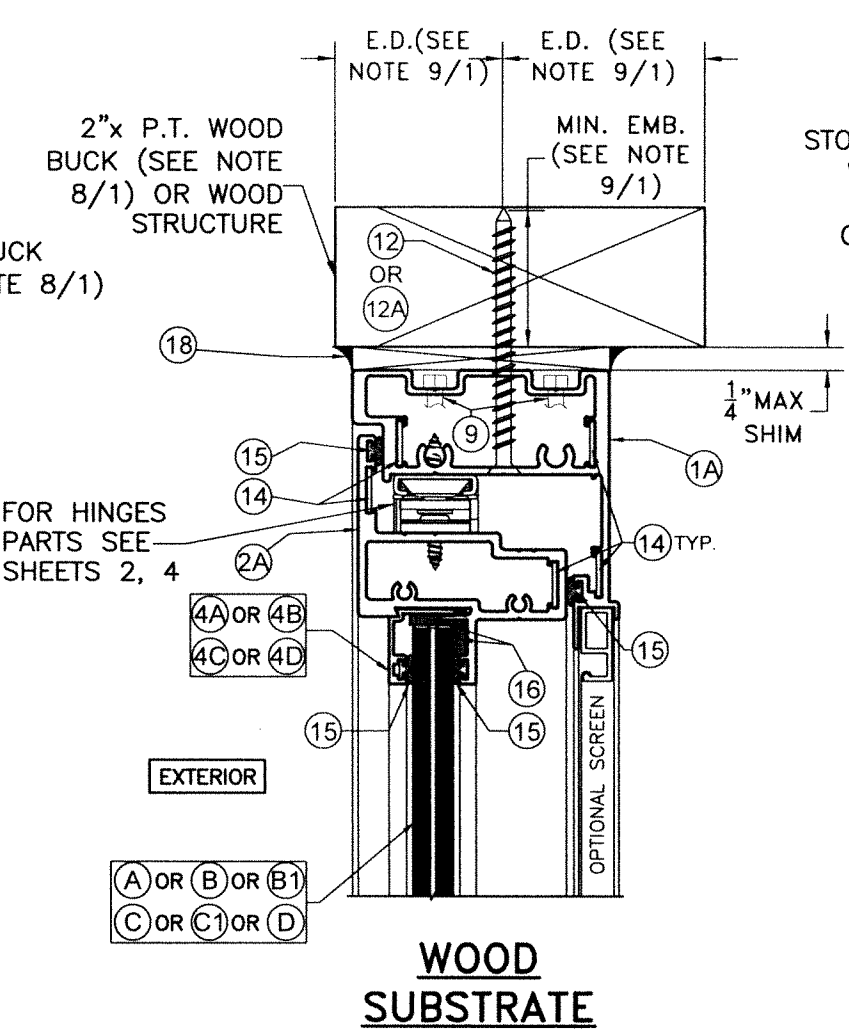
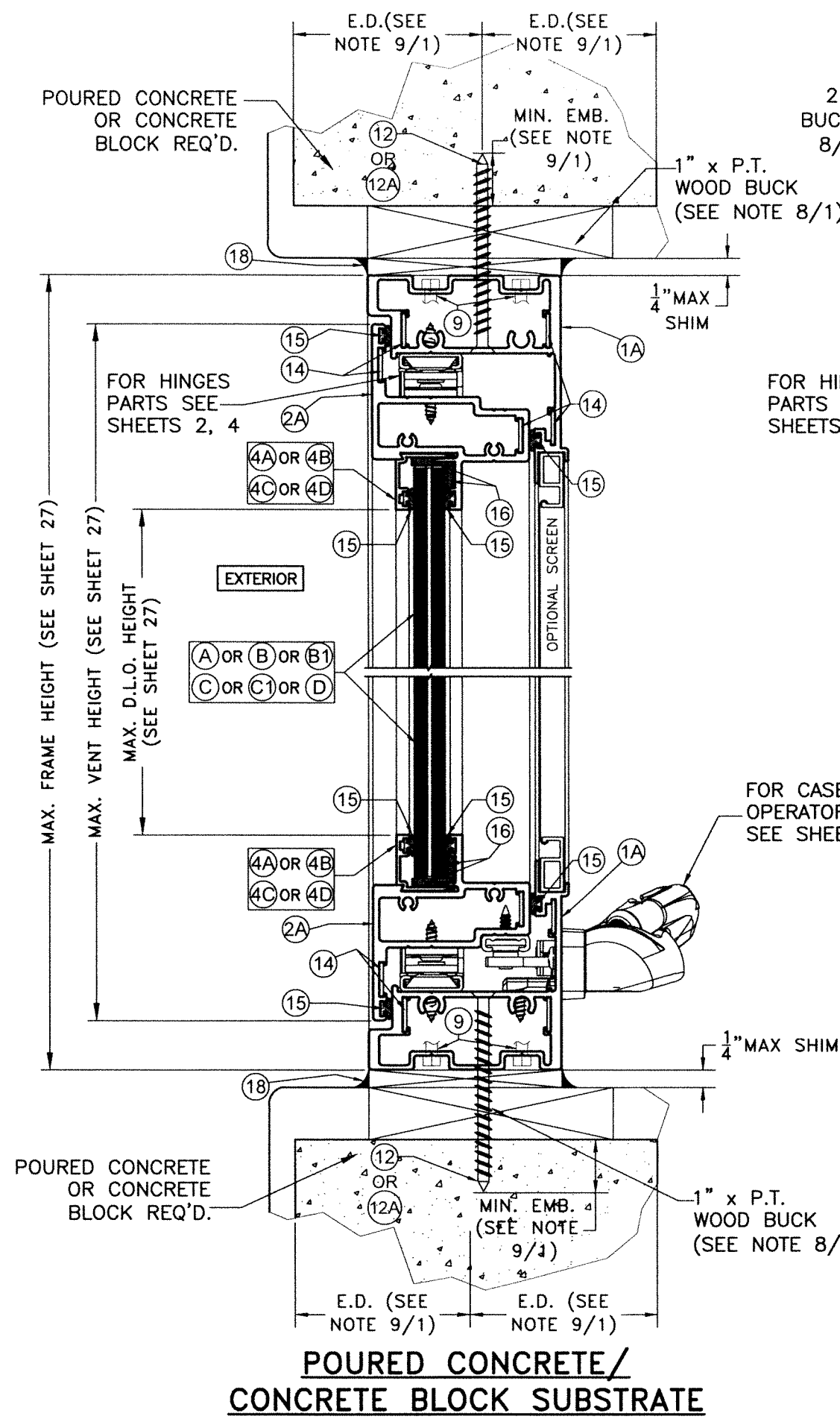
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No. 44167
STATE OF FLORIDA
8/7/2023

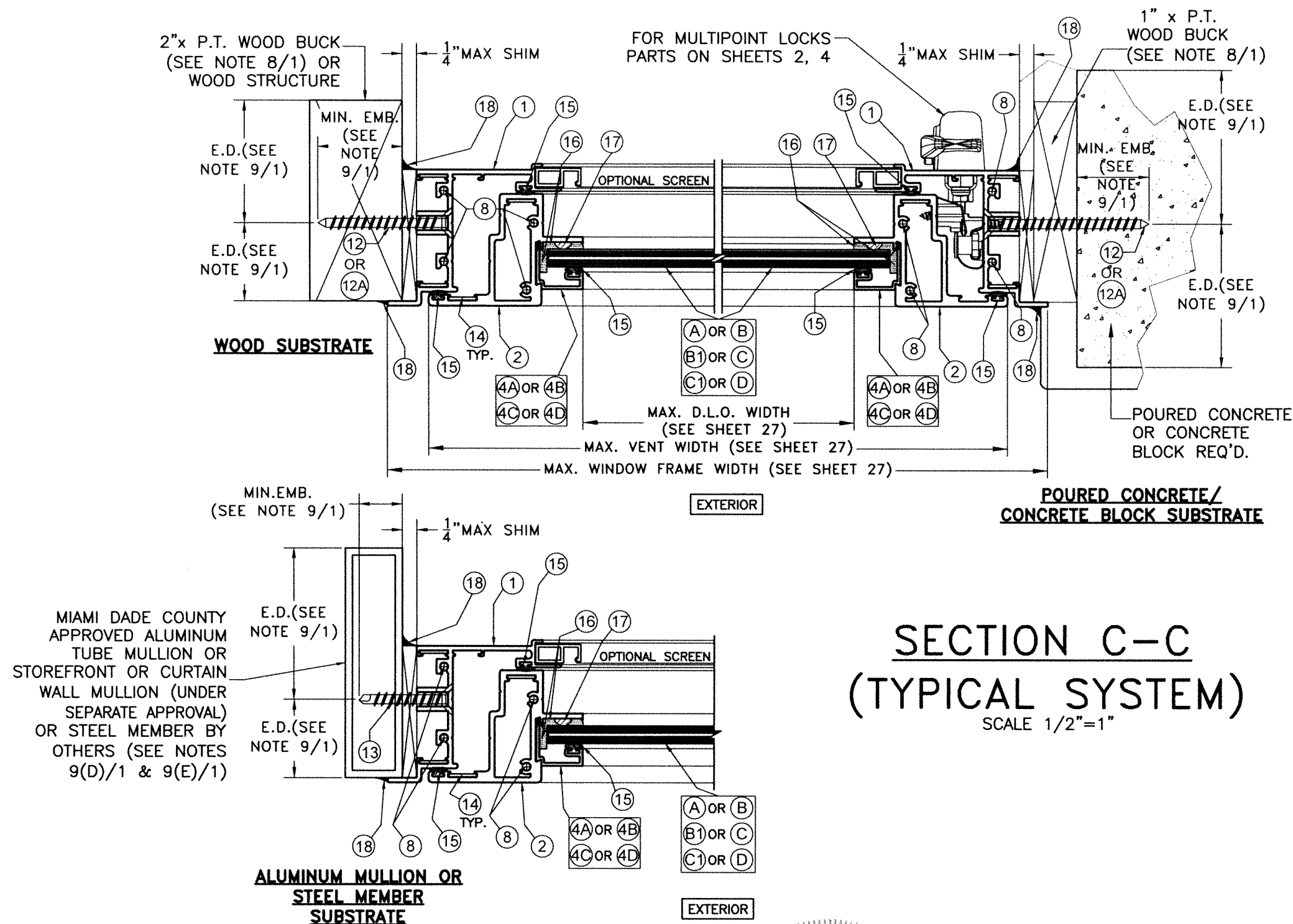
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1	OLD 20-273	08/07/23	2		
					SHEET 13 OF 33



SECTION B'-B'
(HEAVY SYSTEM)
SCALE 1/2"=1"

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1	OLD 20-273	06/07/23	2		
SHEET 14 OF 33					W.H. DRAWN BY: 08/07/2023 DATE: 23-154 DRAWING No.



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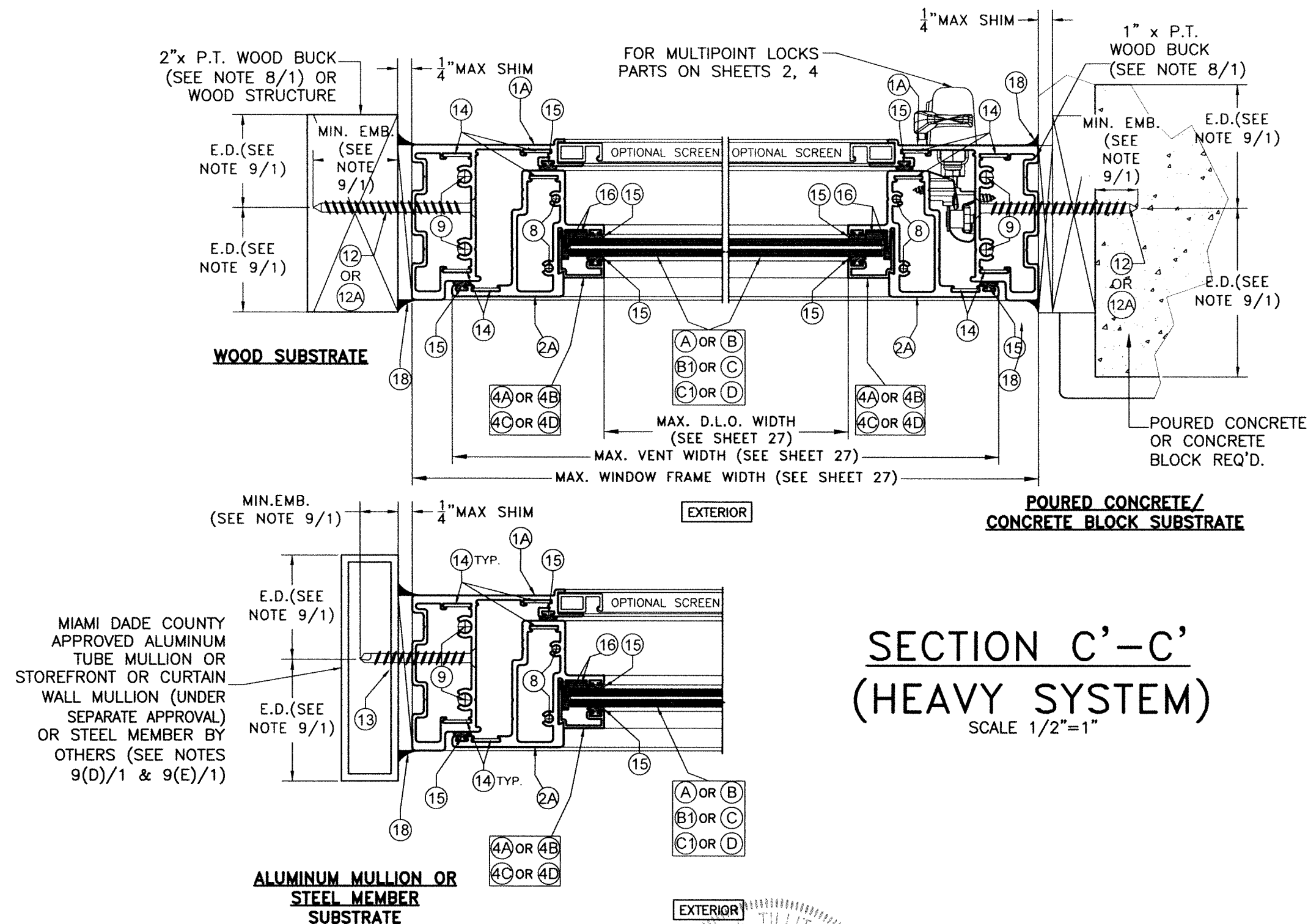
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SHEET 15 OF 33

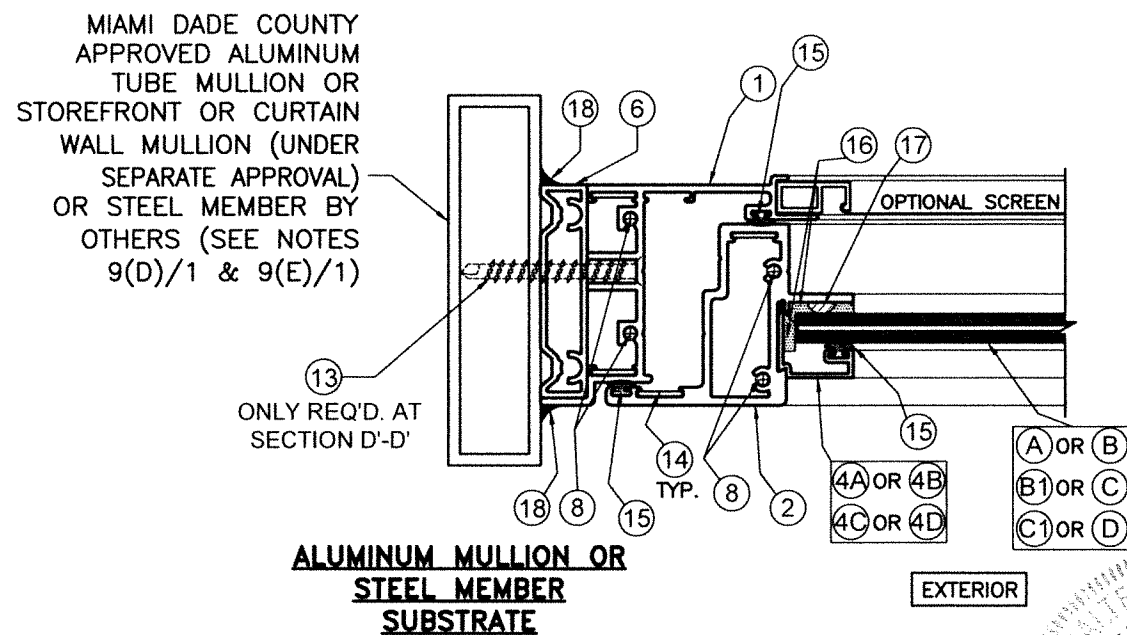
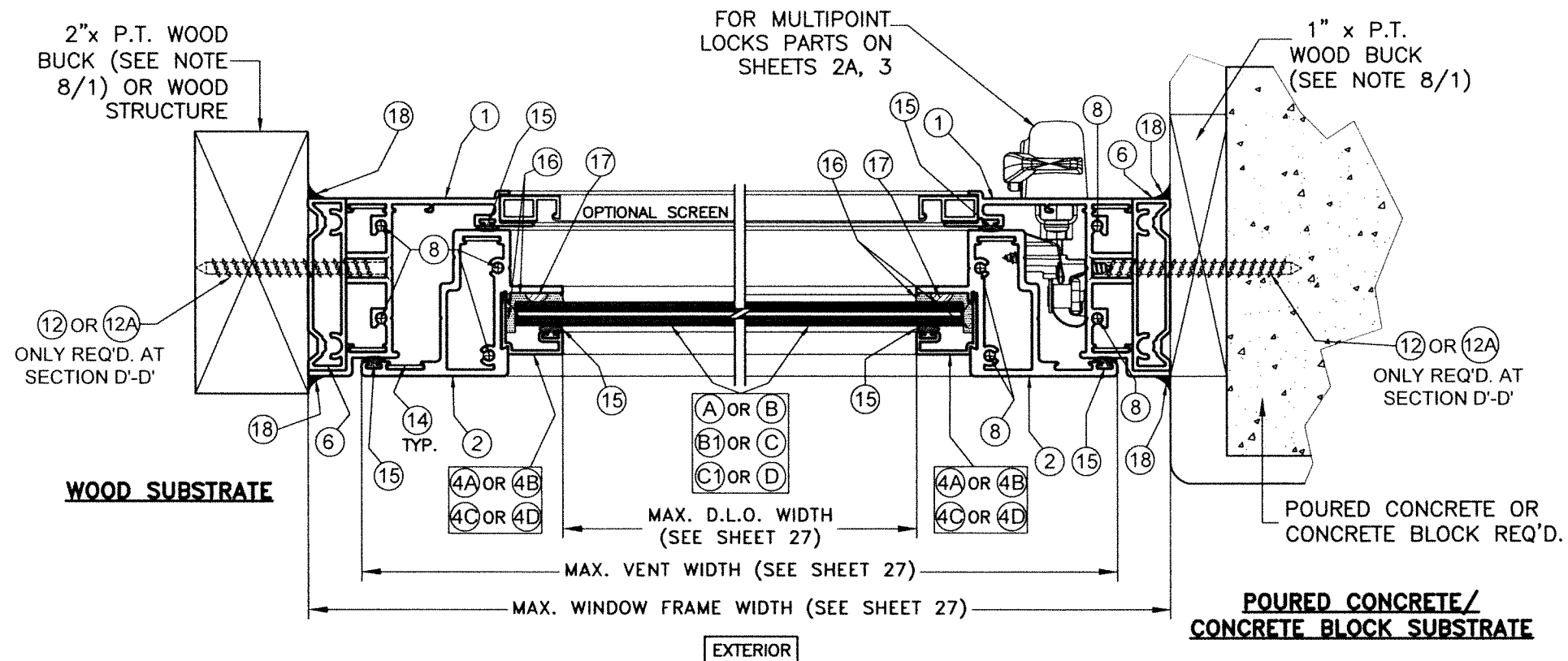


SECTION C'-C'
(HEAVY SYSTEM)
 SCALE 1/2"=1"

P.E. SEAL/SIGNATURE/DATE

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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE								
1	OLD 20-273	08/07/23	2										



SECTIONS D-D & D'-D'

(TYPICAL SYSTEM)

SCALE 1/2"=1"

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8/7/2023
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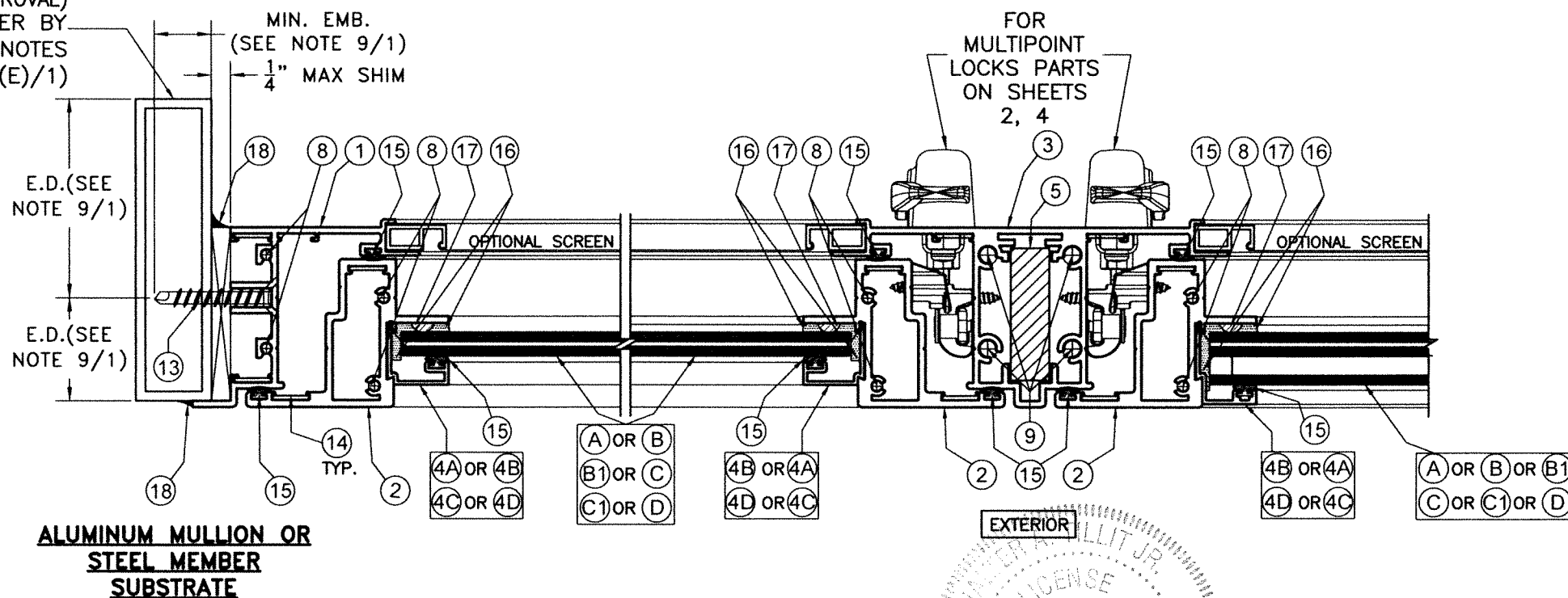
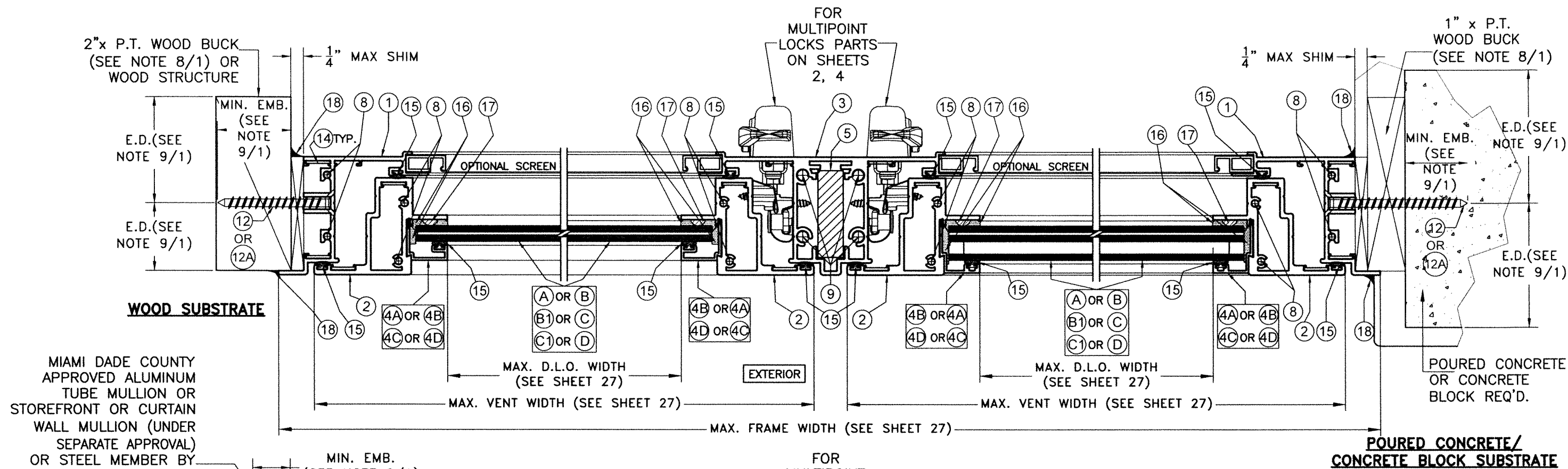
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DRAWN BY:

08/07/2023
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23-154
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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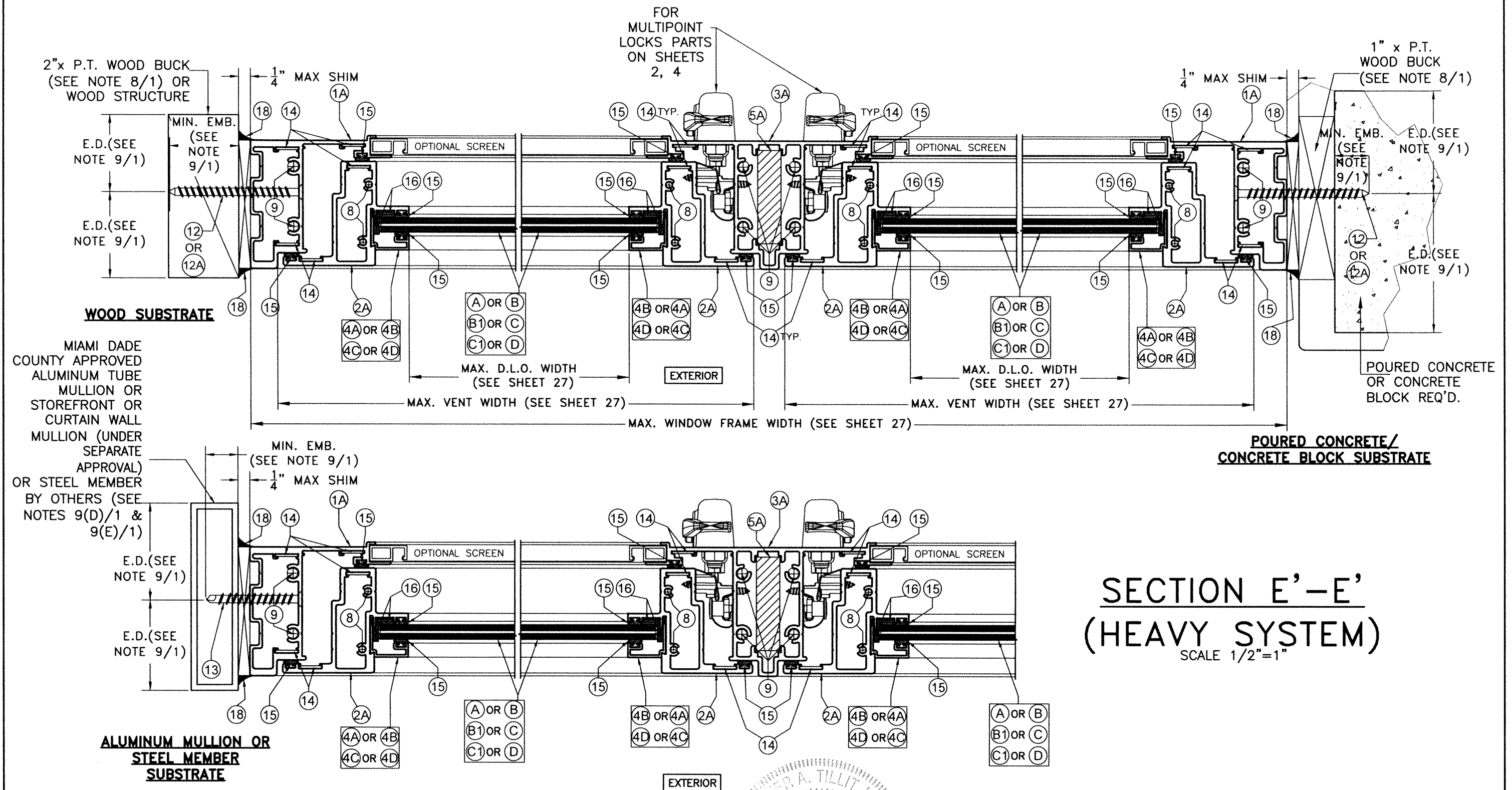
SHEET 17 OF 33



SECTION E-E (TYPICAL SYSTEM)

SCALE 1/2"=1"

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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: 08/07/2023 DATE: 23-154 DRAWING No.			
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-273	08/07/23	2		



WALTER A. TILLIT JR.
No. 44167
8/7/2023
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WALTER A. TILLIT Jr. P.E.
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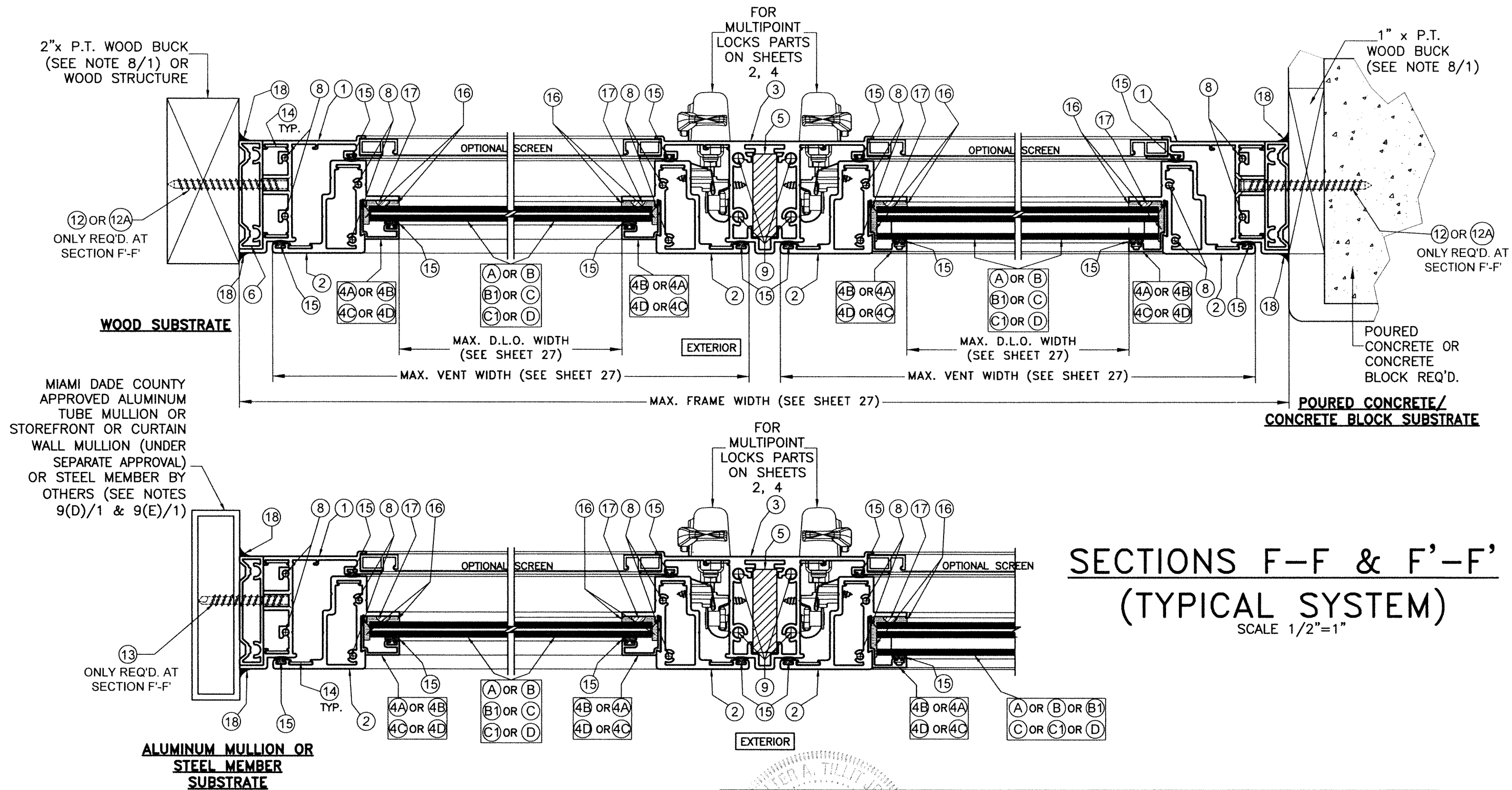
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DRAWN BY:

08/07/2023
DATE:

23-154
DRAWING No.

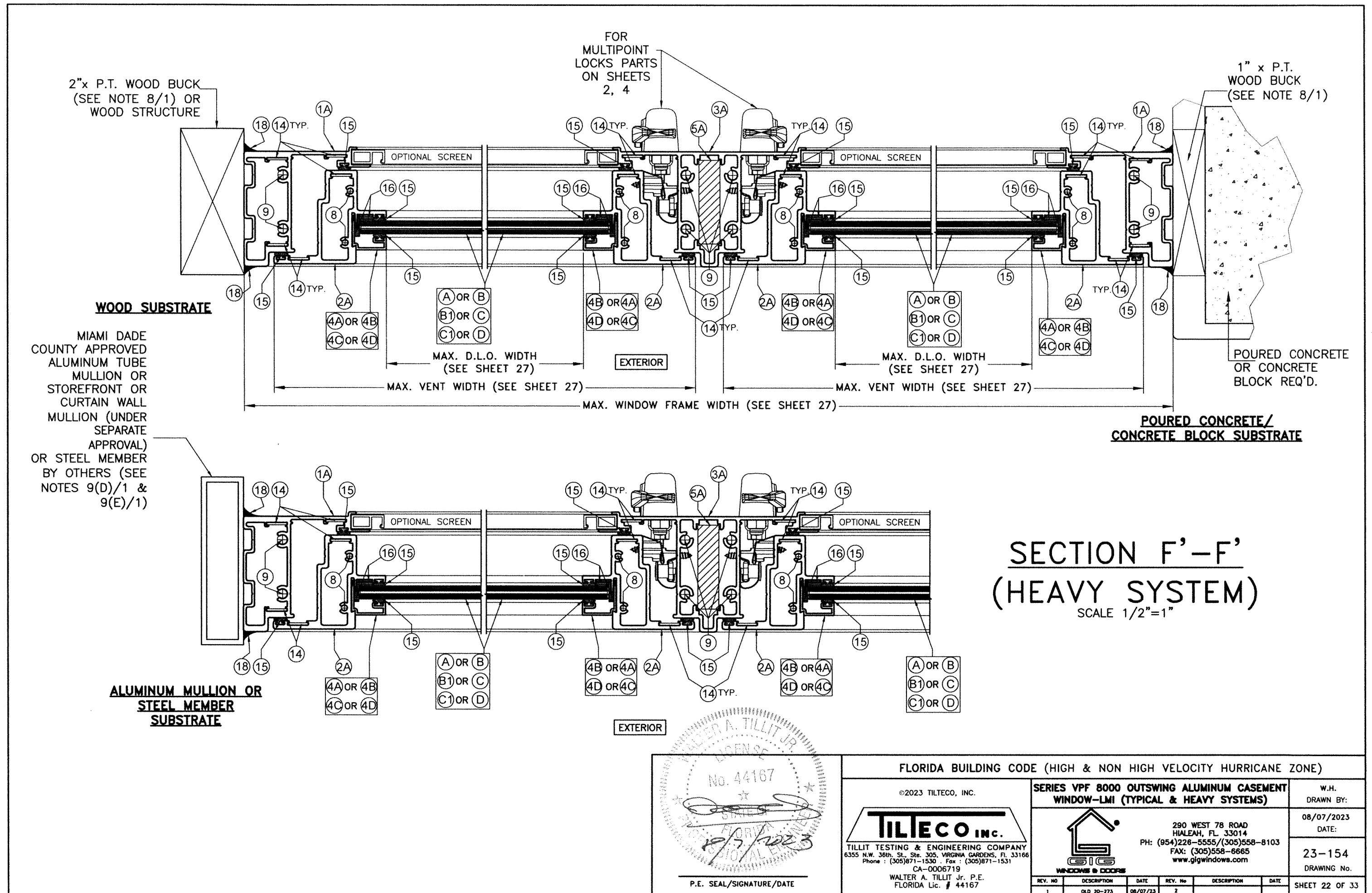
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1	OLD 20-273	08/07/23	2		

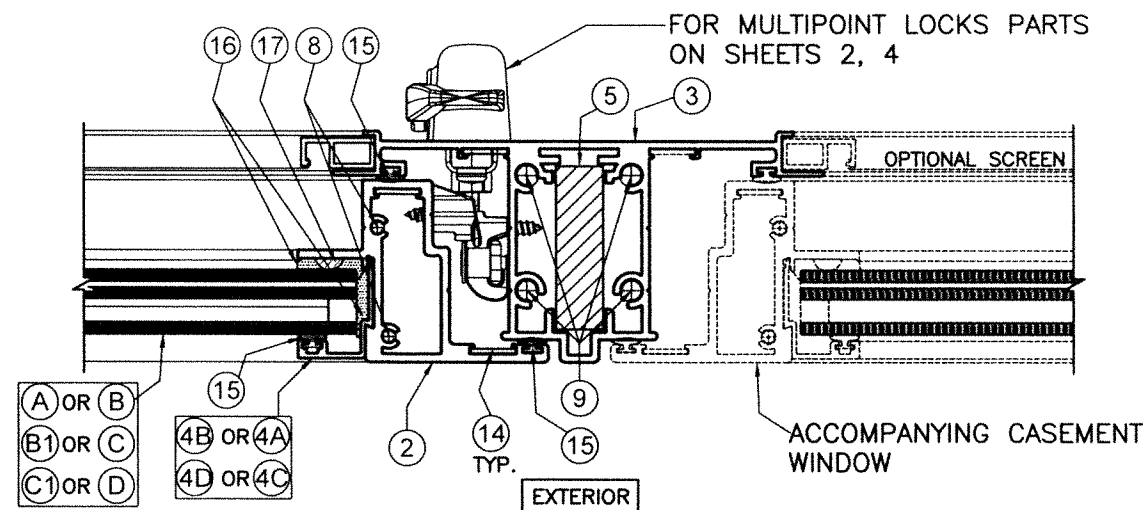
SHEET 20 OF 33



SECTIONS F-F & F'-F' (TYPICAL SYSTEM) SCALE 1/2"=1"

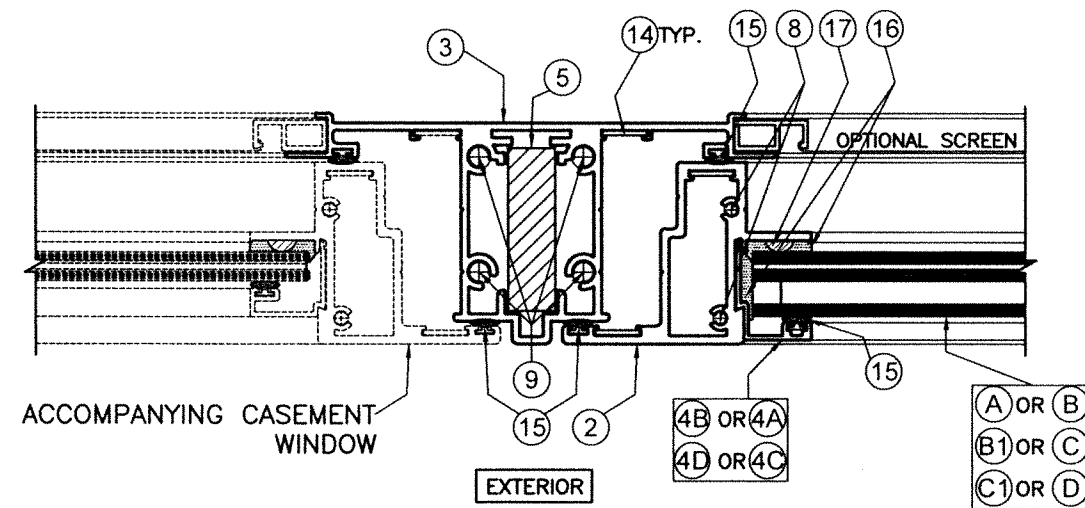
P.E. SEAL/SIGNATURE/DATE		FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)													
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<table border="1"> <thead> <tr> <th>REV. NO</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 20-273</td> <td>08/07/23</td> <td>2</td> <td></td> <td></td> </tr> </tbody> </table>	REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 20-273	08/07/23	2			SHEET 21 OF 33		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE										
1	OLD 20-273	08/07/23	2												





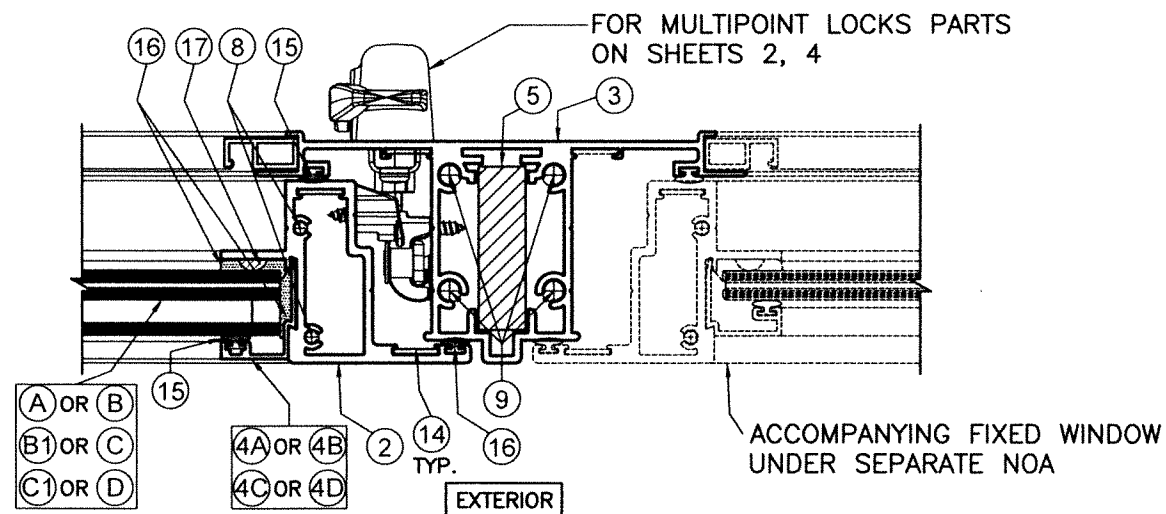
SECTION G-G (TYPICAL SYSTEM)

SCALE 1/2"=1"



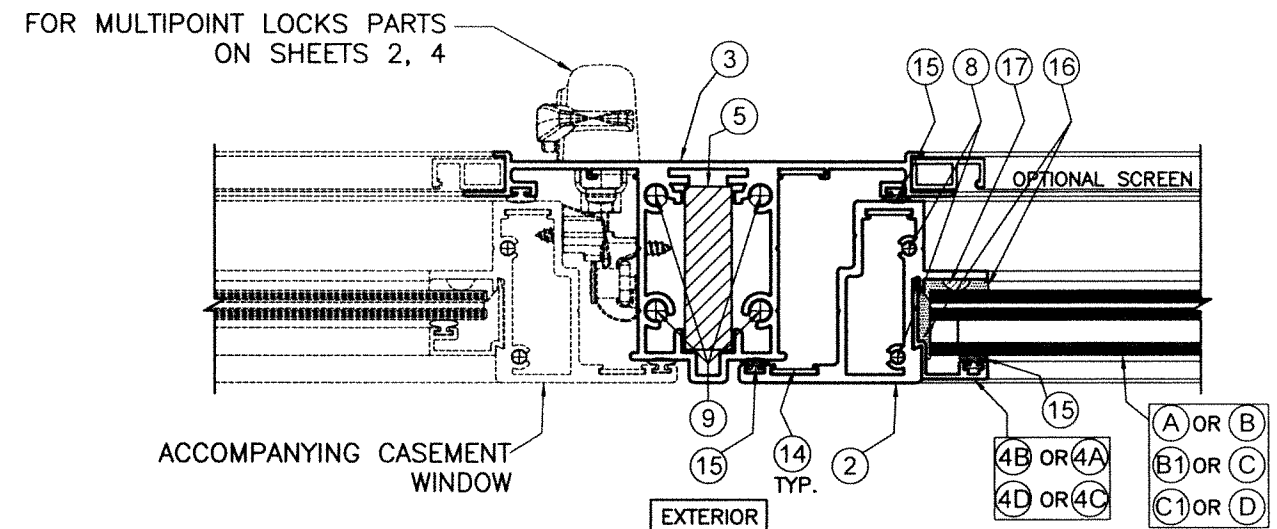
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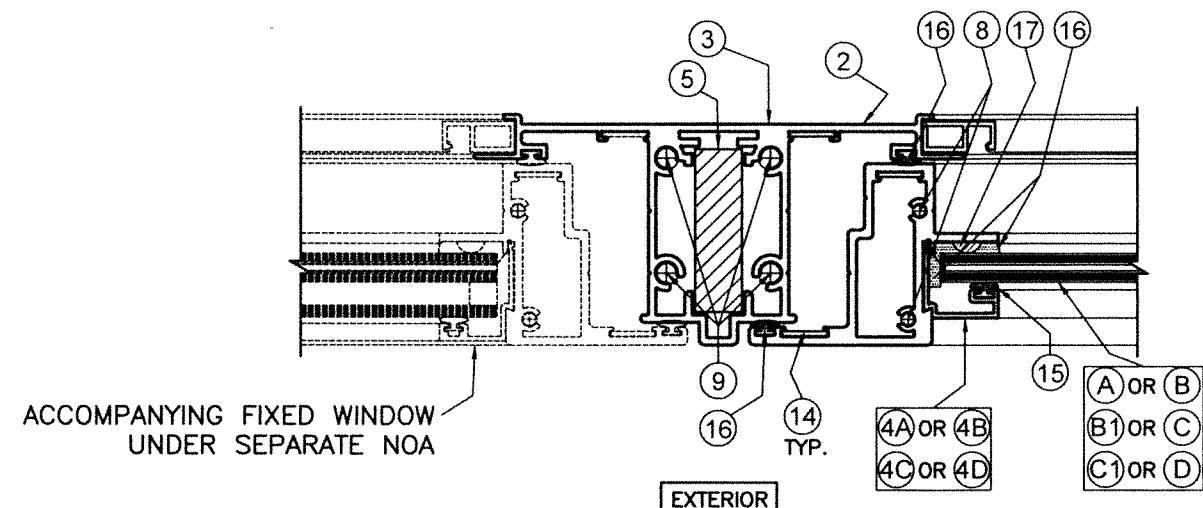
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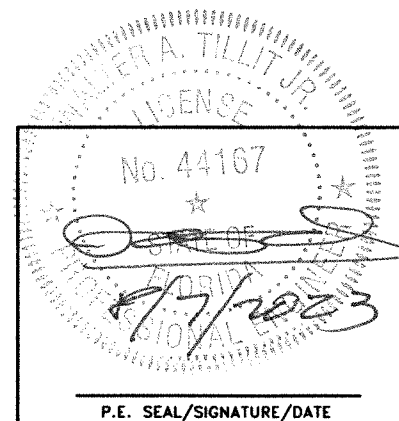
SECTION H-H (TYPICAL SYSTEM)

SCALE 1/2"=1"



SECTION J-J (TYPICAL SYSTEM)

SCALE 1/2"=1"



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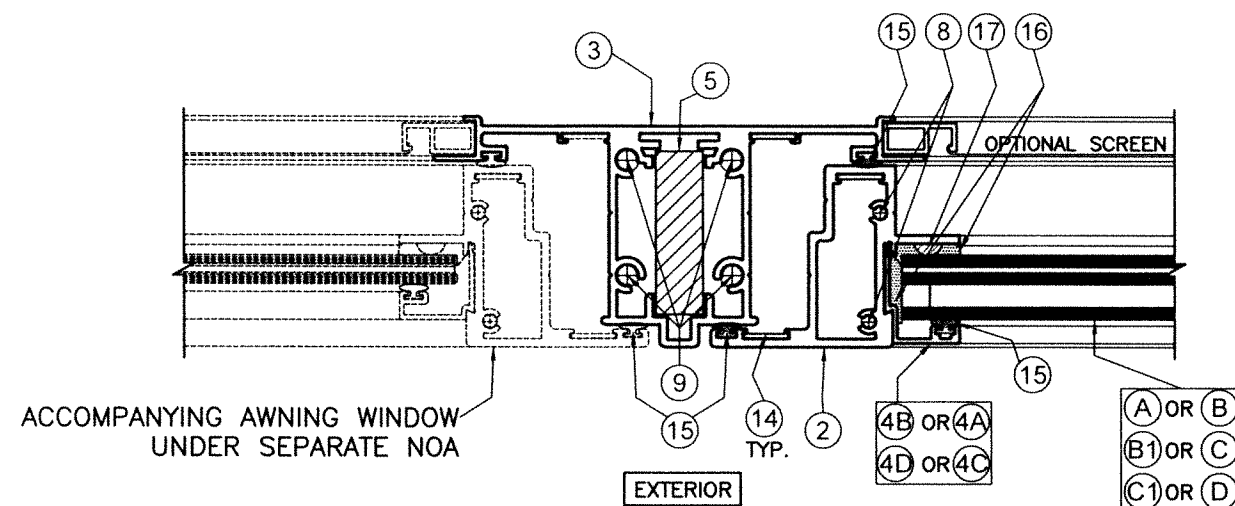
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08/07/2023
DATE:

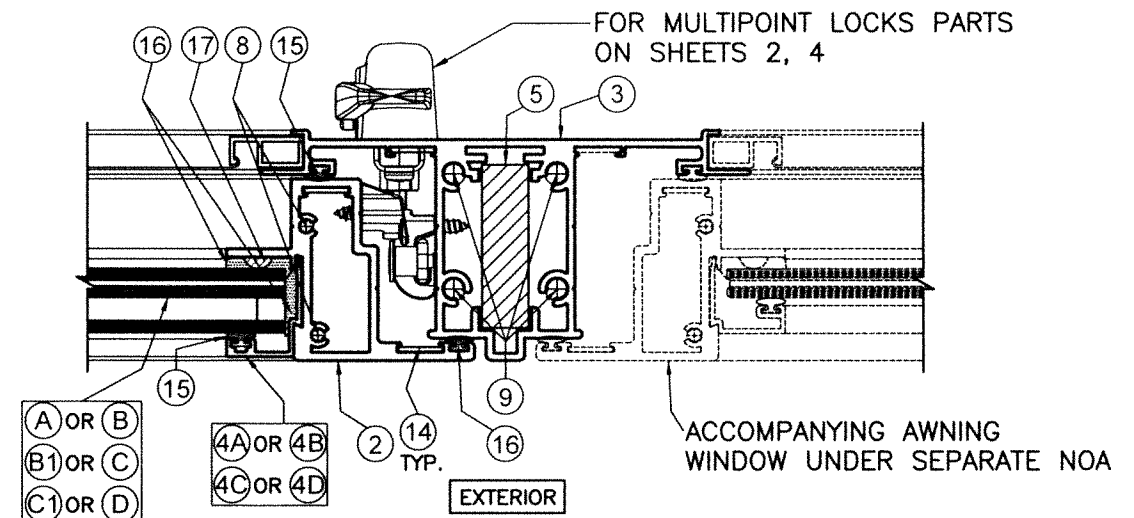
23-154
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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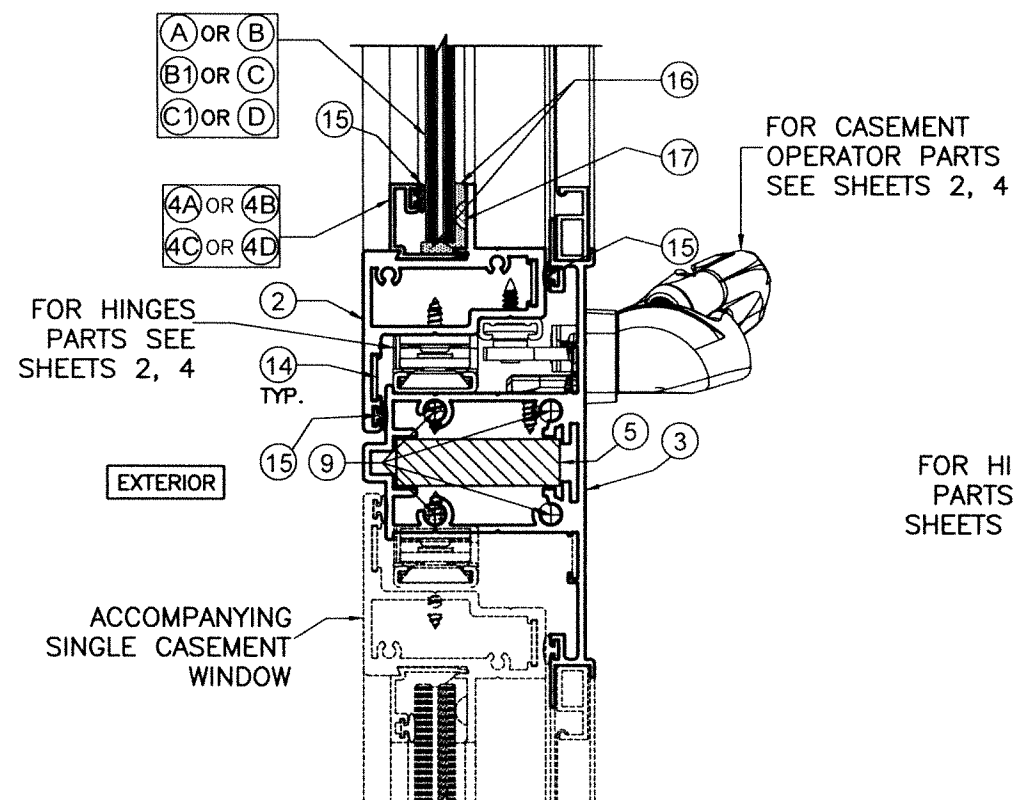
SHEET 23 OF 33



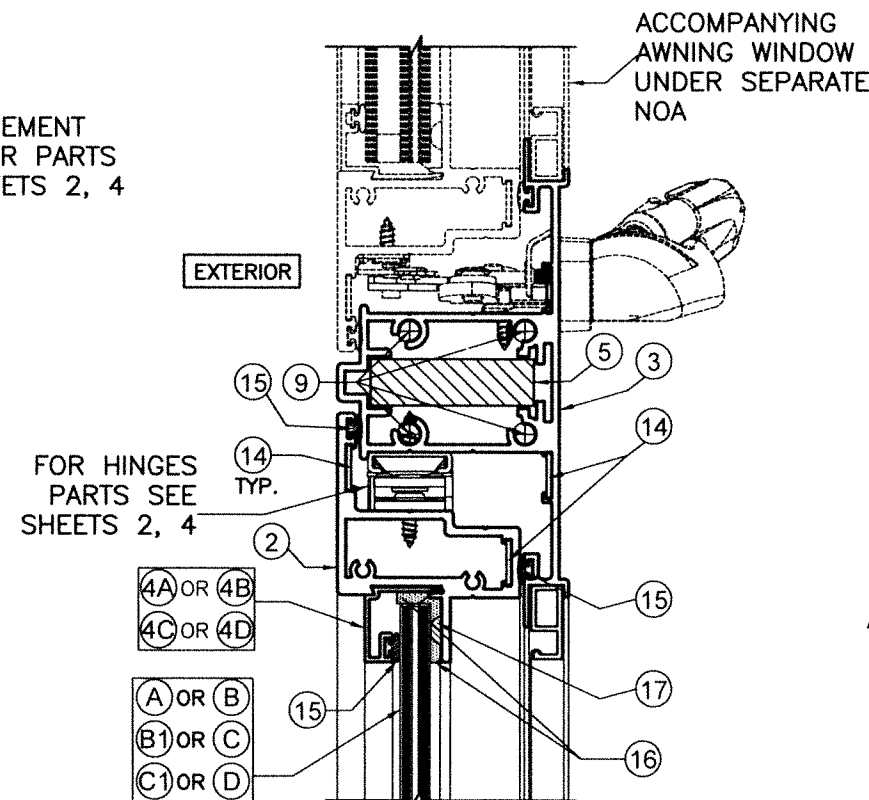
SECTION L-L (TYPICAL SYSTEM)
SCALE 1/2"=1"



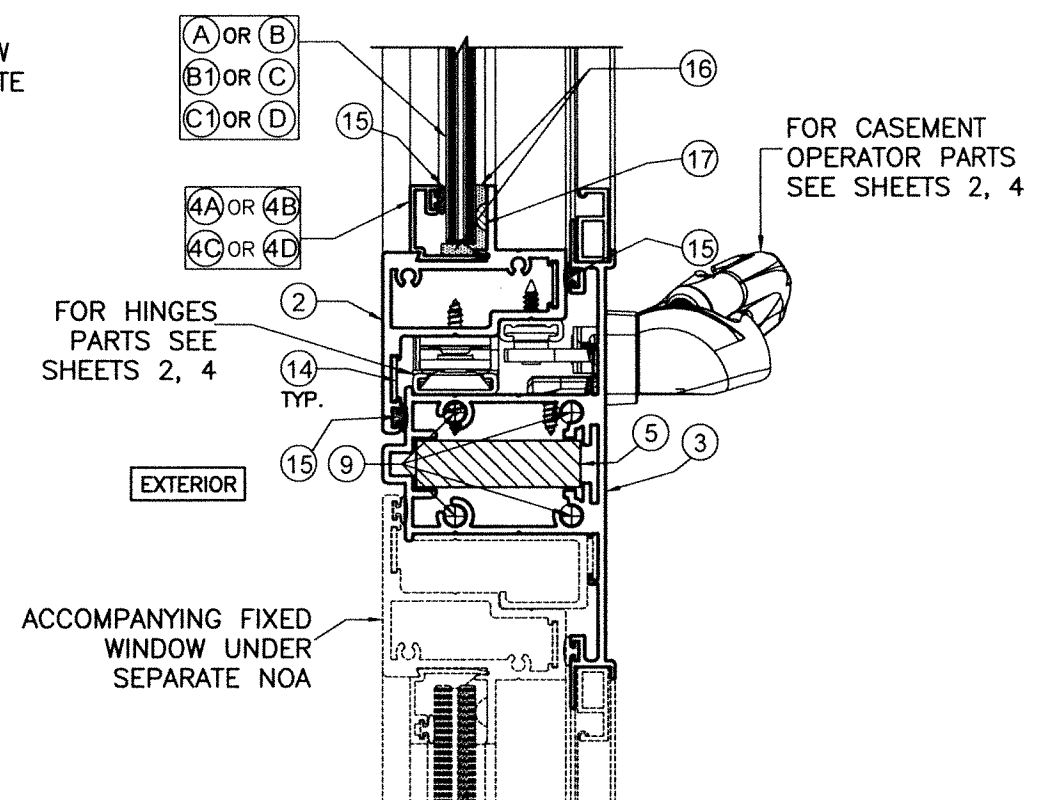
SECTION M-M (TYPICAL SYSTEM)
SCALE 1/2"=1"



SECTION N-N (TYPICAL SYSTEM)
SCALE 1/2"=1"



SECTION O-O (TYPICAL SYSTEM)
SCALE 1/2"=1"

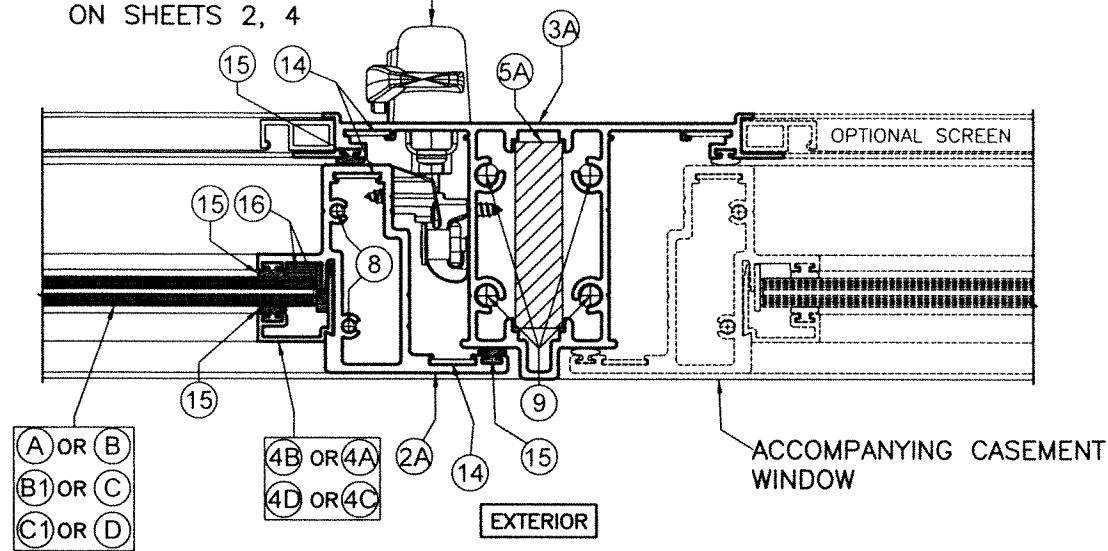


SECTION P-P (TYPICAL SYSTEM)
SCALE 1/2"=1"

P.E. SEAL/SIGNATURE/DATE

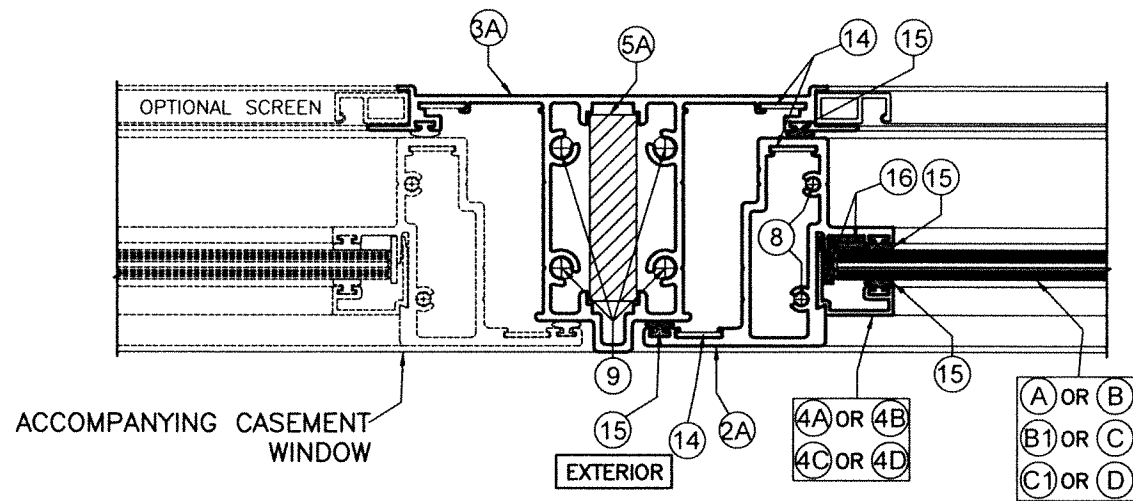
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1	OLD 20-273	08/07/23	2		
SHEET 24 OF 33					

POINT LOCKS PARTS
ON SHEETS 2, 4



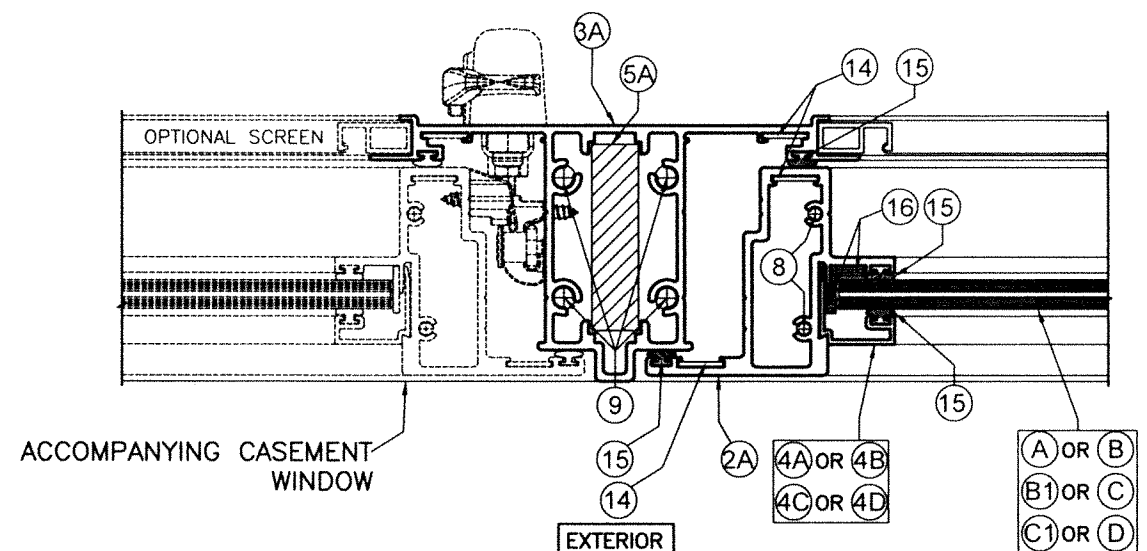
SECTION G'-G' (HEAVY SYSTEM)

SCALE $1/2'' = 1'$



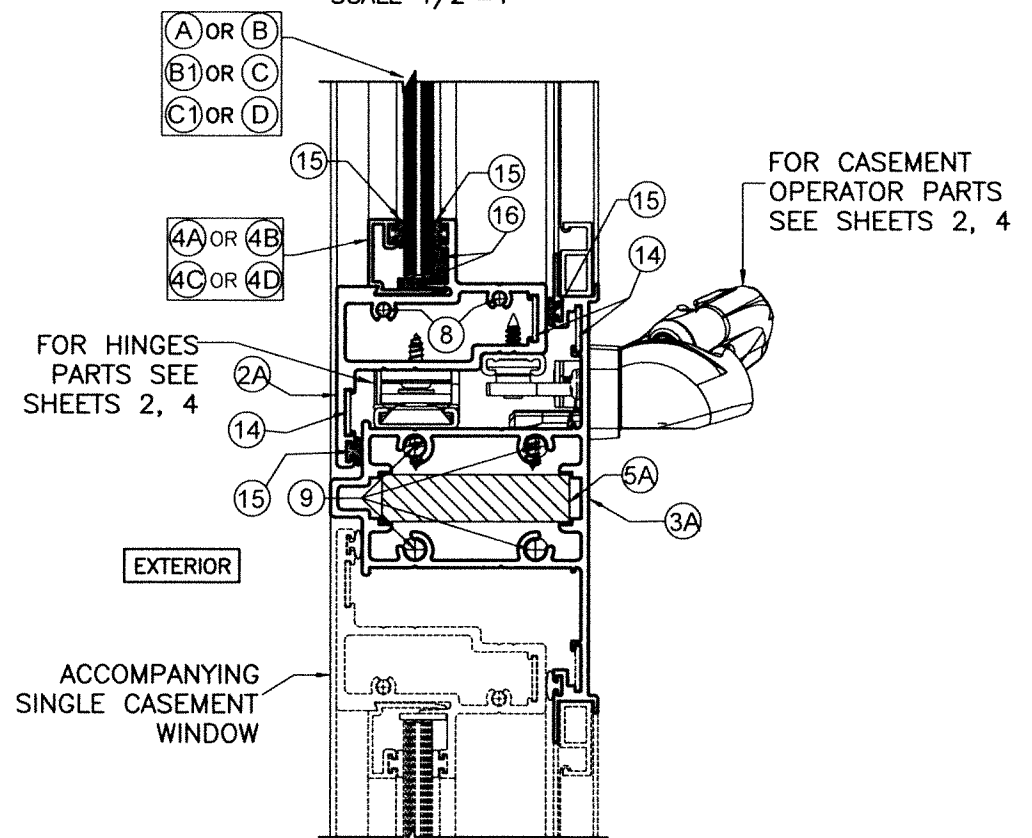
SECTION I'-I' (HEAVY SYSTEM)

SCALE 1/2"=1"



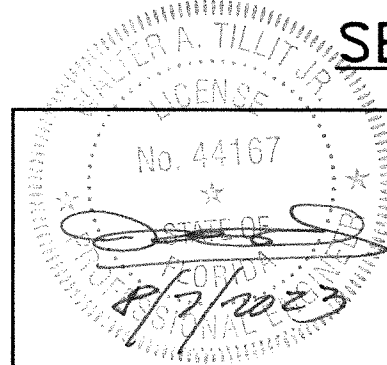
SECTION H'-H' (HEAVY SYSTEM)

SCALE 1/2"=1"



SECTION N'-N' (HEAVY SYSTEM)

SCALE $1/2'' = 1'$



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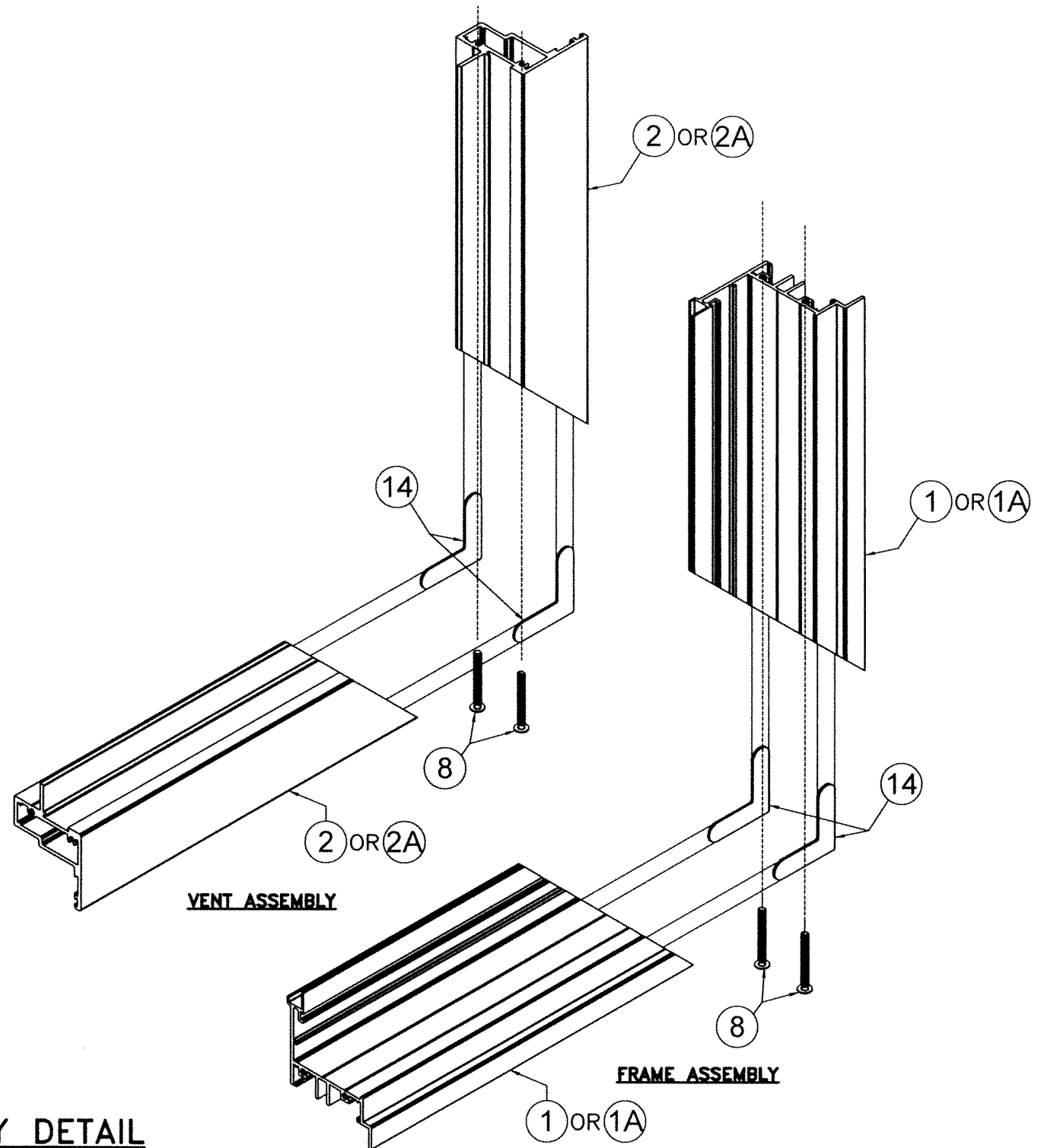
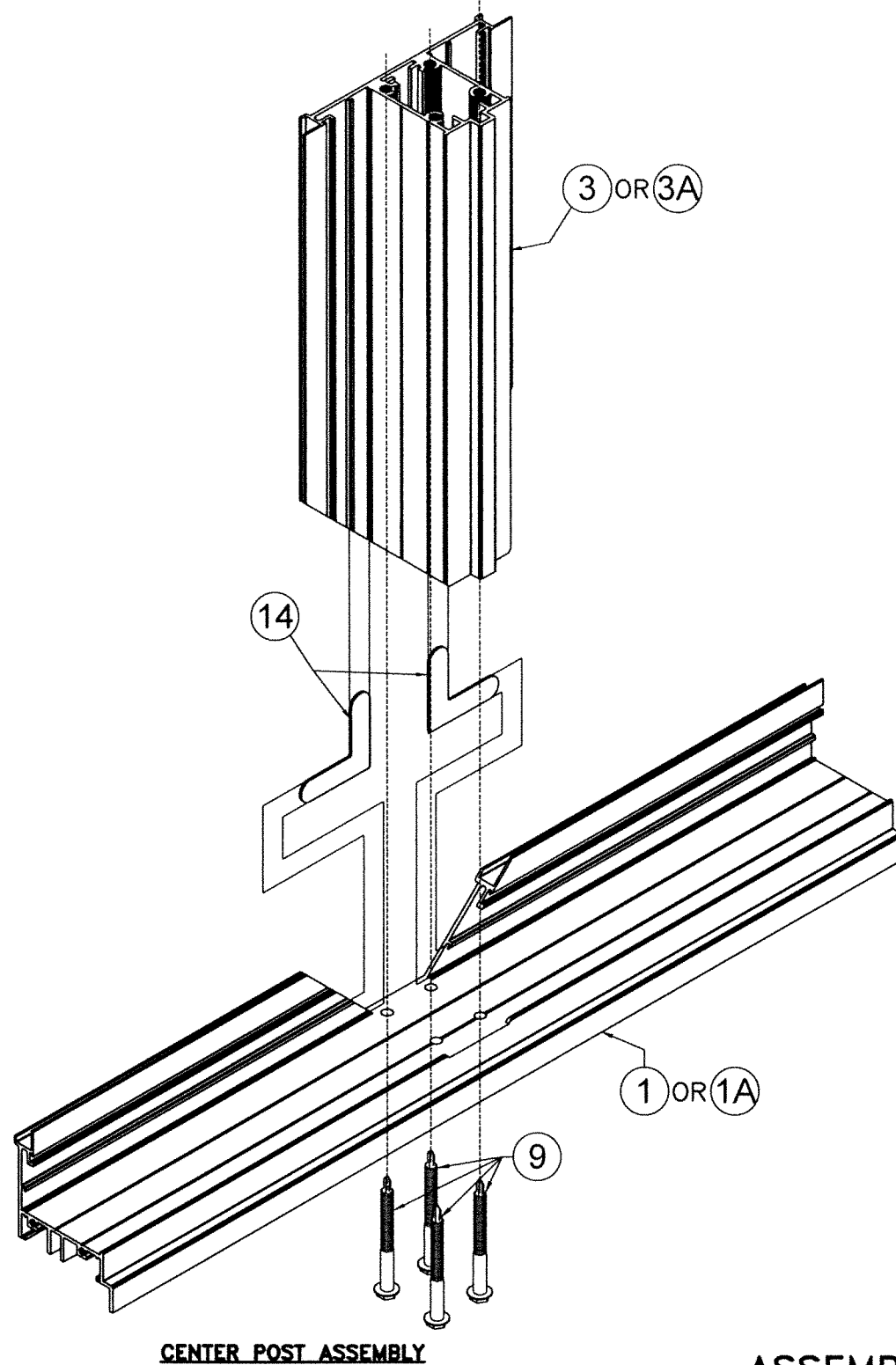
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DATE: /07/2023

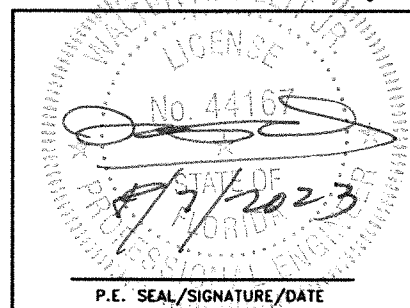
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ASSEMBLY DETAIL ISOMETRIC (TYPICAL & HEAVY SYSTEMS)



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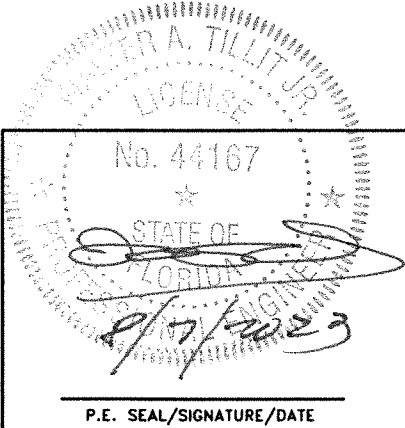
23-154
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-273	06/07/23	2		

SHEET 26 OF 33

TYPICAL & HEAVY SYSTEMS								
SCHEDULE #1: VALID FOR INSTALLATIONS ON SHEETS 6, 7, 8, 9, 10								
MAX. ASD. DESIGN PRESSURE RATING AND CORRESPONDING MAX. FRAME, VENT & DLO. DIMENSIONS FOR SINGLE & DOUBLE VENT CASEMENT WINDOWS								
MAX. ASD DESIGN PRESSURE RATING	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	MAX. VENT WIDTH	MAX. VENT HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	REQ'D. GLASS TYPE
+72.0, -72.0	42"	84"	74"	41"	72 1/2"	35 5/8"	67 3/16"	(A) (B) (C) (D)
+105.0, -105.0	42"	84"	55"	41"	53 3/8"	35 5/8"	48 1/16"	(B) (C)
+110.0, -110.0	40"	80"	58"	39"	56 3/8"	33 5/8"	51 1/16"	(B) (C)
+120.0, -120.0	37"	74"	63"	36"	61 3/8"	30 5/8"	56 1/16"	(B) (C)

TYPICAL & HEAVY SYSTEMS							
SCHEDULE #2: VALID FOR INSTALLATIONS ON SHEET 11							
MAX. ASD. DESIGN PRESSURE RATING AND CORRESPONDING MAX. FRAME, VENT & DLO. DIMENSIONS FOR VERTICAL COMBINATIONS OF SINGLE VENT CASEMENT, AWNING OR FIXED WINDOWS							
MAX. ASD DESIGN PRESSURE RATING	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME HEIGHT	MAX. VENT WIDTH	MAX. VENT HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	REQ'D. GLASS TYPE
+72.0, -72.0	42"	74"	41"	72 1/2"	35 5/8"	67 3/16"	(A) (B) (C) (D)
+105.0, -105.0	42"	55"	41"	53 3/8"	35 5/8"	48 1/16"	(B) (C)
+110.0, -110.0	40"	58"	39"	56 3/8"	33 5/8"	51 1/16"	(B) (C)
+120.0, -120.0	37"	63"	36"	61 3/8"	30 5/8"	56 1/16"	(B) (C)



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					 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com WINDOWS & DOORS					08/07/2023 DATE:	
										23-154 DRAWING No.	
					SHEET 27 OF 33						
REV. NO		DESCRIPTION		DATE		REV. No		DESCRIPTION		DATE	
1		OLD 20-273		08/07/23		2					

TYPICAL & HEAVY SYSTEMS						
MAXIMUM ANCHOR SPACING "S" AT ATTACHED JAMB FOR SINGLE & DOUBLE VENT CASEMENT WINDOWS VALID FOR INSTALLATIONS SHEETS 6, 8, 9, 10 & 11 (AS APPLICABLE)						
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW *	MAX. FRAME HEIGHT	"S" (O.C.) AT JAMB
POURED CONCRETE f'c=3000psi	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	15"
		+75.0, -75.0	42"	84"	55"	14"
			40"	80"	58"	15"
			37"	74"	63"	16"
		+80.0, -80.0	42"	84"	55"	13"
			40"	80"	58"	14"
			37"	74"	63"	15"
		+85.0, -85.0	42"	84"	55"	12"
			40"	80"	58"	13"
			37"	74"	63"	14"
		+90.0, -90.0	42"	84"	55"	12"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+95.0, -95.0	42"	84"	55"	11"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+100.0, -100.0	42"	84"	55"	11"
			40"	80"	58"	11"
			37"	74"	63"	12"
		+105.0, -105.0	42"	84"	55"	10"
			40"	80"	58"	11"
			37"	74"	63"	11"
		+110.0, -110.0	40"	80"	58"	10"
			37"	74"	63"	11"
		+115.0, -115.0	37"	74"	63"	10"
		+120.0, -120.0	37"	74"	63"	10"

CONTINUED						
CONCRETE BLOCK	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	12"
		+75.0, -75.0	42"	84"	55"	12"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+80.0, -80.0	42"	84"	55"	11"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+85.0, -85.0	42"	84"	55"	10"
			40"	80"	58"	11"
			37"	74"	63"	12"
		+90.0, -90.0	42"	84"	55"	10"
			40"	80"	58"	10"
			37"	74"	63"	11"
		+95.0, -95.0	42"	84"	55"	9"
			40"	80"	58"	10"
			37"	74"	63"	10"
		+100.0, -100.0	42"	84"	55"	9"
			40"	80"	58"	9"
			37"	74"	63"	10"
		+105.0, -105.0	42"	84"	55"	8"
			40"	80"	58"	9"
			37"	74"	63"	9"
		+110.0, -110.0	40"	80"	58"	8"
			37"	74"	63"	9"
		+115.0, -115.0	37"	74"	63"	9"
		+120.0, -120.0	37"	74"	63"	8"

* THIS COLUMN NOT APPLICABLE TO INSTALLATIONS SHEET 11.

WALTER A. TILLIT JR.

PROFESSIONAL ENGINEER

STATE OF FLORIDA

No. 44167

8/2/2023

P.E. SEAL/SIGNATURE/DATE

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DESCRIPTION

DATE

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OLD 20-273

08/07/23

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08/07/2023
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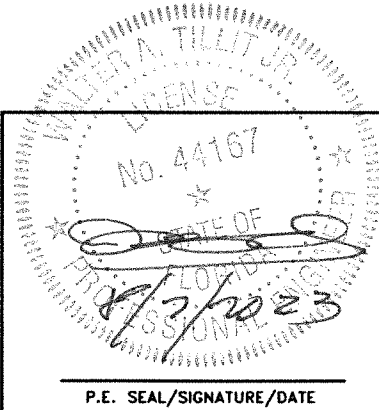
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TYPICAL & HEAVY SYSTEMS						
MAXIMUM ANCHOR SPACING "S" AT ATTACHED JAMB FOR SINGLE & DOUBLE VENT CASEMENT WINDOWS VALID FOR INSTALLATIONS SHEETS 6, 8, 9, 10 & 11 (AS APPLICABLE)						
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW *	MAX. FRAME HEIGHT	"S" AT JAMB
ALUMINUM OR STEEL	⑬	+72.0, -72.0	42"	84"	74"	16"
		+75.0, -75.0	42"	84"	55"	16"
			40"	80"	58"	16"
			37"	74"	63"	16"
		+80.0, -80.0	42"	84"	55"	16"
			40"	80"	58"	16"
			37"	74"	63"	16"
		+85.0, -85.0	42"	84"	55"	15"
			40"	80"	58"	16"
			37"	74"	63"	16"
		+90.0, -90.0	42"	84"	55"	14"
			40"	80"	58"	15"
			37"	74"	63"	16"
		+95.0, -95.0	42"	84"	55"	13"
			40"	80"	58"	14"
			37"	74"	63"	15"
		+100.0, -100.0	42"	84"	55"	13"
			40"	80"	58"	13"
			37"	74"	63"	14"
		+105.0, -105.0	42"	84"	55"	12"
			40"	80"	58"	13"
			37"	74"	63"	14"
		+110.0, -110.0	40"	80"	58"	12"
			37"	74"	63"	13"
		+115.0, -115.0	37"	74"	63"	12"
		+120.0, -120.0	37"	74"	63"	12"

CONTINUED						
WOOD	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	15"
		+75.0, -75.0	42"	84"	55"	14"
			40"	80"	58"	15"
			37"	74"	63"	16"
		+80.0, -80.0	42"	84"	55"	13"
			40"	80"	58"	14"
			37"	74"	63"	15"
		+85.0, -85.0	42"	84"	55"	12"
			40"	80"	58"	13"
			37"	74"	63"	14"
		+90.0, -90.0	42"	84"	55"	12"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+95.0, -95.0	42"	84"	55"	11"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+100.0, -100.0	42"	84"	55"	11"
			40"	80"	58"	11"
			37"	74"	63"	12"
		+105.0, -105.0	42"	84"	55"	10"
			40"	80"	58"	11"
			37"	74"	63"	11"
		+110.0, -110.0	40"	80"	58"	10"
			37"	74"	63"	11"
		+115.0, -115.0	37"	74"	63"	10"
		+120.0, -120.0	37"	74"	63"	10"

* THIS COLUMN NOT APPLICABLE TO INSTALLATIONS SHEET 11.



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

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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 VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)


290 WEST 78 ROAD
HIALEAH, FL. 33014
PH: (954)226-5555/(305)558-8103
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DATE:

23-154
DRAWING No.

SHEET 29 OF 33

TYPICAL & HEAVY SYSTEMS						
SCHEDULE #3: VALID FOR INSTALLATIONS PER SHEETS 7, 8, 9, 10 (AS APPLICABLE)						
MAXIMUM # OF ANCHORS "n" AT EA. OF TWO CLUSTERS AT HEAD OR SILL FOR SINGLE AND DOUBLE VENT CASEMENT WINDOWS WHEN JAMBS ARE NOT ATTACHED TO WALL						
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH • SINGLE VENT WINDOW	MAX. FRAME WIDTH • DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
POURED CONCRETE f'c=3000psi	(12) OR (12A)	+72.0, -72.0	42"	84"	74"	3
		+75.0, -75.0 TO +80.0, -80.0	42"	84"	55"	2
			40"	80"	58"	2
			37"	74"	63"	2
		+85.0, -85.0 TO +115.0, -115.0	42"	84"	55"	3
			40"	80"	58"	3
			37"	74"	63"	3
		+120.0, -120.0	37"	74"	63"	3
ALUMINUM OR STEEL	(13)	+72.0, -72.0	42"	84"	74"	2
		+75.0, -75.0 TO +95.0, -95.0	42"	84"	55"	2
			40"	80"	58"	2
			37"	74"	63"	2
		+100.0, -100.0 TO +115.0, -115.0	42"	84"	55"	3
			40"	80"	58"	3
			37"	74"	63"	3
		+120.0, -120.0	37"	74"	63"	3

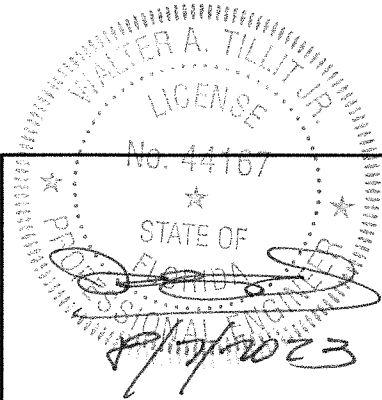
SCHEDULE #3 (CONTINUED)						
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH • SINGLE VENT WINDOW	MAX. FRAME WIDTH • DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
CONCRETE BLOCK	(12) OR (12A)	+72.0, -72.0	42"	84"	74"	3
		+75.0, -75.0 TO +100.0, -100.0	42"	84"	55"	3
			40"	80"	58"	3
			37"	74"	63"	3
		+105.0, -105.0 TO +115.0, -115.0	42"	84"	55"	4
			40"	80"	58"	4
			37"	74"	63"	4
		+120.0, -120.0	37"	74"	63"	4
WOOD	(12) OR (12A)	+72.0, -72.0	42"	84"	74"	3
		+75.0, -75.0 TO +80.0, -80.0	42"	84"	55"	2
			40"	80"	58"	2
			37"	74"	63"	2
		+85.0, -85.0 TO +115.0, -115.0	42"	84"	55"	3
			40"	80"	58"	3
			37"	74"	63"	3
		+120.0, -120.0	37"	74"	63"	3

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
8/7/2023
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)									
©2023 TILTECO, INC.					SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)			W.H. DRAWN BY:	
 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					 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com			08/07/2023 DATE:	
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1 OLD 20-273 08/07/23					2			SHEET 30 OF 33	

TYPICAL & HEAVY SYSTEMS SCHEDULE #4: VALID FOR INSTALLATIONS PER SHEET 11					
MAXIMUM # OF ANCHORS "n" AT EA. OF TWO CLUSTERS AT HEAD OR SILL FOR COMBINATION OF SINGLE VENT CASEMENT WINDOWS WHEN JAMBS ARE NOT ATTACHED TO WALL EXCEPT AT HORIZONTAL CENTER POST ③					
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
POURED CONCRETE f'c=3000psi	⑫ OR ⑫A	+72.0, -72.0	42"	74"	3
		+75.0, -75.0 TO +80.0, -80.0	42"	55"	2
			40"	58"	2
			37"	63"	2
		+85.0, -85.0 TO +115.0, -115.0	42"	55"	3
			40"	58"	3
			37"	63"	3
		+120.0, -120.0	37"	63"	3
ALUMINUM OR STEEL	⑬	+72.0, -72.0	42"	74"	2
		+75.0, -75.0 TO +95.0, -95.0	42"	55"	2
			40"	58"	2
			37"	63"	2
		+100.0, -100.0 TO +115.0, -115.0	42"	55"	3
			40"	58"	3
			37"	63"	3
		+120.0, -120.0	37"	63"	3

SCHEDULE #4 (CONTINUED)					
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
CONCRETE BLOCK	⑫ OR ⑫A	+72.0, -72.0	42"	74"	3
		+75.0, -75.0 TO +100.0, -100.0	42"	55"	3
			40"	58"	3
			37"	63"	3
		+105.0, -105.0 TO +115.0, -115.0	42"	55"	4
			40"	58"	4
			37"	63"	4
		+120.0, -120.0	37"	63"	4
WOOD	⑫ OR ⑫A	+72.0, -72.0	42"	74"	3
		+75.0, -75.0 TO +80.0, -80.0	42"	55"	2
			40"	58"	2
			37"	63"	2
		+85.0, -85.0 TO +115.0, -115.0	42"	55"	3
			40"	58"	3
			37"	63"	3
		+120.0, -120.0	37"	63"	3



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 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					 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com			08/07/2023 DATE:	
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TYPICAL & HEAVY SYSTEMS							
SCHEDULE #5: VALID FOR INSTALLATIONS PER SHEETS 6, 7, 8, 9, 10 (AS APPLICABLE)							
MAXIMUM # OF ANCHORS "n" AT CLUSTER AT HEAD OR SILL AT MEETING STILES* FOR DOUBLE CASEMENT WINDOWS							
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	"n"		
POURED CONCRETE f'c=3000psi	(12) OR (12A)	+72.0, -72.0	84"	74"	6		
		+75.0, -75.0 TO +80.0, -80.0	84"	55"	4		
			80"	58"	4		
			74"	63"	4		
		+85.0, -85.0 TO +115.0, -115.0	84"	55"	6		
			80"	58"	6		
			74"	63"	6		
		+120.0, -120.0	74"	63"	6		
		ALUMINUM OR STEEL	(13)	+72.0, -72.0	84"	74"	4
				+75.0, -75.0 TO +95.0, -95.0	84"	55"	4
80"	58"				4		
74"	63"				4		
+100.0, -100.0 TO +115.0, -115.0	84"			55"	6		
	80"			58"	6		
	74"			63"	6		
+120.0, -120.0	74"			63"	6		

SCHEDULE #5 (CONTINUED)							
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	"n"		
CONCRETE BLOCK	(12) OR (12A)	+72.0, -72.0	84"	74"	6		
		+75.0, -75.0 TO +100.0, -100.0	84"	55"	6		
			80"	58"	6		
			74"	63"	6		
		+105.0, -105.0 TO +115.0, -115.0	84"	55"	8		
			80"	58"	8		
			74"	63"	8		
		+120.0, -120.0	74"	63"	8		
		WOOD	(12) OR (12A)	+72.0, -72.0	84"	74"	6
				+75.0, -75.0 TO +80.0, -80.0	84"	55"	4
80"	58"				4		
74"	63"				4		
+85.0, -85.0 TO +115.0, -115.0	84"			55"	6		
	80"			58"	6		
	74"			63"	6		
+120.0, -120.0	74"			63"	6		

* TOTAL NUMBER OF ANCHORS SHALL BE UNIFORMLY DISTRIBUTED AT (n/2) ANCHORS AT EITHER SIDE OF MEETING STILES AT HEAD AND ALSO AT SILL

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

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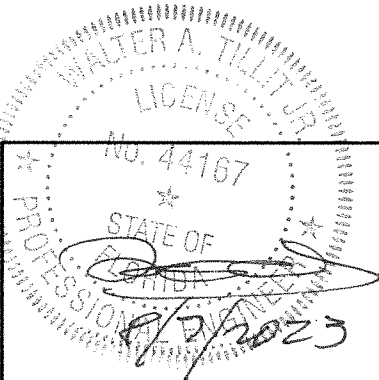
SHEET 32 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-273	06/07/23	2		

TYPICAL & HEAVY SYSTEMS SCHEDULE #6: VALID FOR INSTALLATIONS PER SHEET 11					
MAXIMUM # OF ANCHORS "n" AT CLUSTER AT EA. END OF HORIZONTAL CENTER POST ③ OR ③A AT JAMBS FOR VERTICAL COMBINATION OF SINGLE VENT CASEMENT, AWNING & FIXED WINDOWS					
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH • SINGLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
POURED CONCRETE f'c=3000psi	⑫ OR ⑫A	+72.0, -72.0	42"	74"	6
		+75.0, -75.0 TO +80.0, -80.0	42"	55"	4
			40"	58"	4
			37"	63"	4
		+85.0, -85.0 TO +115.0, -115.0	42"	55"	6
			40"	58"	6
			37"	63"	6
		+120.0, -120.0	37"	63"	6
ALUMINUM OR STEEL	⑬	+72.0, -72.0	42"	74"	4
		+75.0, -75.0 TO +95.0, -95.0	42"	55"	4
			40"	58"	4
			37"	63"	4
		+100.0, -100.0 TO +115.0, -115.0	42"	55"	6
			40"	58"	6
			37"	63"	6
		+120.0, -120.0	37"	63"	6

SCHEDULE #6 (CONTINUED)					
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH • SINGLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
CONCRETE BLOCK	⑫ OR ⑫A	+72.0, -72.0	42"	74"	6
		+75.0, -75.0 TO +100.0, -100.0	42"	55"	6
			40"	58"	6
			37"	63"	6
		+105.0, -105.0 TO +115.0, -115.0	42"	55"	8
			40"	58"	8
			37"	63"	8
		+120.0, -120.0	37"	63"	8
WOOD	⑫ OR ⑫A	+72.0, -72.0	42"	74"	6
		+75.0, -75.0 TO +80.0, -80.0	42"	55"	4
			40"	58"	4
			37"	63"	4
		+85.0, -85.0 TO +115.0, -115.0	42"	55"	6
			40"	58"	6
			37"	63"	6
		+120.0, -120.0	37"	63"	6

* TOTAL NUMBER OF ANCHORS SHALL BE UNIFORMLY DISTRIBUTED AT (n/2) ANCHORS ABOVE & BELOW OF HORIZONTAL CENTER POST ③ OR ③A AT JAMBS



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

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