

PRODUCT APPROVAL FOR HI-IMPACT SERIES JAZS 70.000 STOREFRONT SYSTEM FOR USE IN HURRICANE ZONES REQUIRING LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS . (WET GLAZED)

GENERAL NOTES:

1. SERIES JAZS 70.000 STOREFRONT SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED AND INSULATED GLASS, 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. PRODUCT MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES (HVHZ) AND OUT THEM (NHVHZ).
DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 (HVHZ) & 1609 (NHVHZ) OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THIS PRODUCT TO BE INSTALLED FOR A DIRECTIONALITY FACTOR $K_d=0.85$, USING ASCE 7-22 & SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON NOTE 2.
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.
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 TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.
THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626, 1609.1.2 & AAMA 501 (PER SECTION 2411.3.2.1.1) OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTATION TESTING. LABORATORY REPORT # 10553 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE. GLASS VERIFIED PER ASTM E-1300 PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE.
2. MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR THIS PRODUCT SHALL BE AS SHOWN ON SHEETS 6, 7, 8, 9, 9A AND 10, 10A.
3. THIS PRODUCT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
4. THIS PRODUCT IS APPROVED FOR AIR/WATER INFILTRATION FOR UP TO A POSITIVE A.S.D LOAD OF 90.0 psf.
5. PRODUCT COMPLIES WITH SECTION 2406 OF THE FLORIDA BUILDING CODE.
6. PROVIDE MAX. LOAD BEARING SHIM (TYP.), WHEN ALLOWED BY THIS DRAWING. (SEE SHEETS 9, 9A, 10 & 10A FOR OPTIONAL SYSTEM #1 AND 30, 30A, 31 & 31A FOR OPTIONAL SYSTEM #2)
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 2X WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF PRODUCT'S FRAME ANCHORAGE. PRODUCT'S FRAME MUST BE SEPARATELY ANCHORED TO 2X WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.
- 7.2 1X WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. PRODUCT'S FRAME ANCHOR SHALL BE USED TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH PRODUCT'S FRAME & 1X WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.
- 7.3 PRODUCT'S FRAME MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED OF WOOD BUCK WHEN MASONRY OPENING IS NOT LARGER THAN ACTUAL DOOR OVERALL DIMENSIONS, HOWEVER, SHIMS (SEE NOTE 6) MAY BE ALLOWED AT PRODUCT'S FRAME ANCHOR LOCATION IF NEEDED.
8. REMAINING COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.
9. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.
10. SHOP DRAWINGS PREPARED BASED ON THIS APPROVAL AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.
11. STRUCTURAL SUBSTRATES NOTED ON THIS DRAWING AS EXISTING STEEL OR ALUMINUM, POURED CONCRETE, GROUT FILLED CONCRETE BLOCK AND WOOD (BY OTHERS) MUST WITHSTAND THE LOADS IMPOSED BY THIS PRODUCT.
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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

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

13. PRODUCT 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 OPENING.

INDEX:

SHEETS 1 THRU 22: OPTIONAL SYSTEM #1
SHEETS 23 THRU 43: OPTIONAL SYSTEM #2

INSTRUCTIONS:

STEP 1: DETERMINE A.S.D. DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING APPLICABLE ASCE 7 STANDARD.

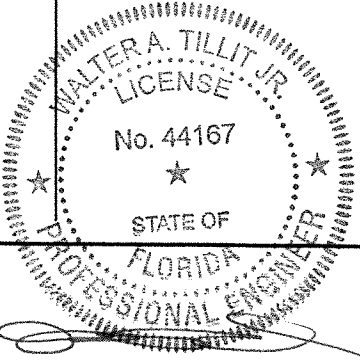
STEP 2: GO TO SCHEDULE ON SHEETS 6 (FOR OPTIONAL SYSTEM #1) AND 27 (FOR OPTIONAL SYSTEM #2) TO DETERMINE MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf) OF DESIRED GLASS SIZE BASED ON GLASS PANEL DIMENSIONS AND DESIGN WIND LOAD PER STEP 1.

STEP 3: DETERMINE MAXIMUM MULLION SPAN "L"(FT) FOR A GIVEN MULLION EFFECTIVE SPACING "b", ON SCHEDULE ON SHEETS 7 & 8 (FOR OPTIONAL SYSTEM #1) AND 28 & 28 (FOR OPTIONAL SYSTEM #2) AND SELECT ANCHOR OPTION W/ A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1 USING SCHEDULES ON SHEETS 9 THRU 11 (FOR OPTIONAL SYSTEM #1) AND SHEETS 30 THRU 32 (FOR OPTIONAL SYSTEM #2) PER STEP 4.

STEP 4: USE SCHEDULES ON SHEETS 11 (FOR OPTIONAL SYSTEM #1) AND 32 (FOR OPTIONAL SYSTEM #2) , TO SELECT ANCHOR FOR OPTION W/ JAMB ANCHORAGE, OR SCHEDULES ON SHEETS 7 (FOR OPTIONAL SYSTEM #1) AND 28 (FOR OPTIONAL SYSTEM #2) FOR JAMB MULLIONS W/O ANCHORAGE, WITH A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN A.S.D. DESIGN LOAD SPECIFIED IN STEP 1.

STEP 5: THE LOWEST VALUE OF A.S.D. DESIGN PRESSURE RATING RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO THE ENTIRE SYSTEM.

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



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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZS 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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

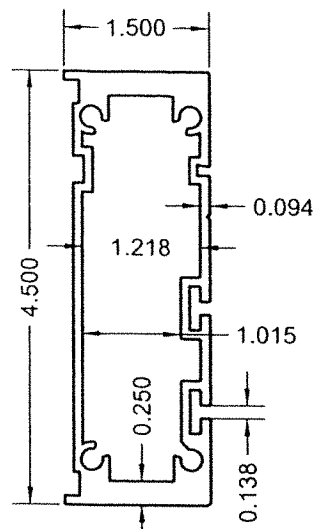
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

W.H
DRAWN BY:

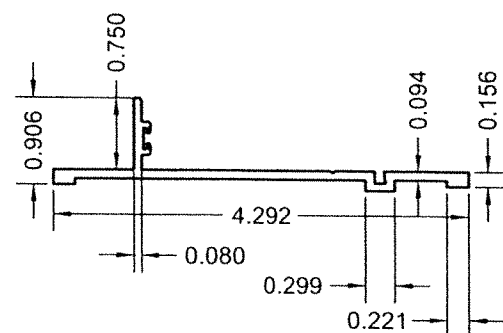
08/30/2023
DATE

23-204
DRAWING No

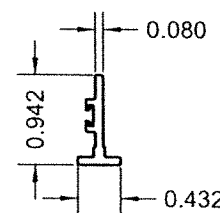
SHEET 1 OF 43



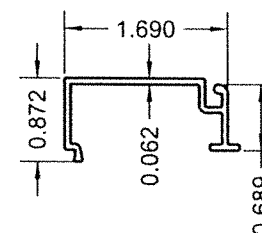
1 FRAME HEAD, JAMB,
SILL & MULLION
6063-T6 ALLOY



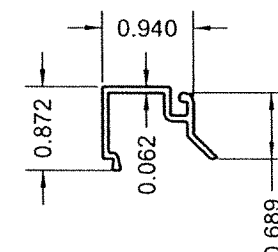
2 MULLION INSERT
6063-T6 ALLOY



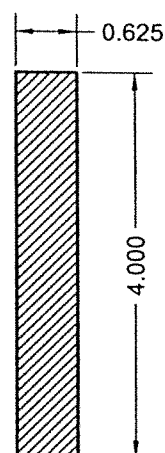
10 GLAZING ADAPTER
FIXED PANEL
6063-T6 ALLOY



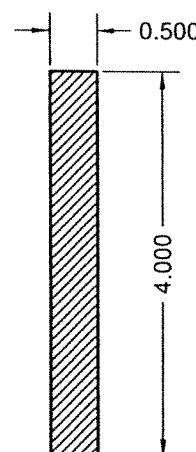
11 FIXED PANEL
GLAZING BEAD
LAMINATED GLASS
6063-T6 ALLOY



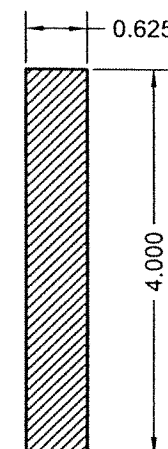
12 FIXED PANEL
GLAZING STOP
INSULATED GLASS
6063-T6 ALLOY



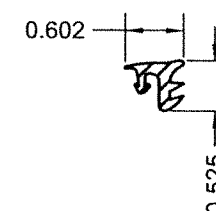
17 5/8" ALUMINUM
REINFORCEMENT
6063-T6 ALLOY



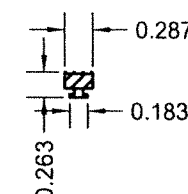
18 1/2" ALUMINUM
REINFORCEMENT
6063-T6 ALLOY



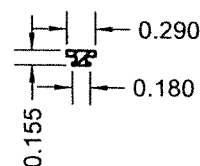
18A 5/8" STEEL
REINFORCEMENT
(EXTENDED PROTOCOL)



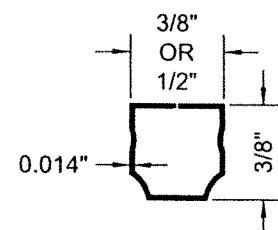
19 WEDGE GASKET
EPDM



20 SOLID RUBBER
GASKET
NEOPRENE / NYLON



21 GLAZING GASKET
TPE

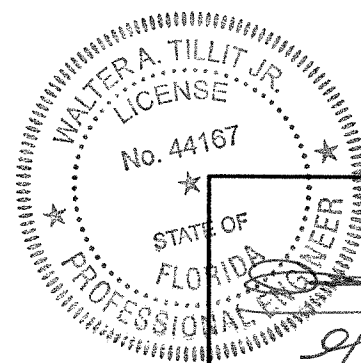


41 INSULATED GLASS
UNIT SPACER
NTS

COMPONENTS: OPTIONAL SYSTEM #1

SCALE: N.T.S

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)



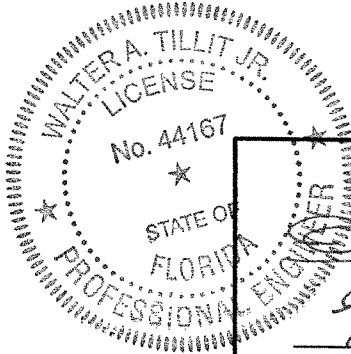
P.E. SEAL/SIGNATURE/DATE

© 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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS			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			08/30/2023 DATE		
			23-204 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

BILL OF MATERIALS (SEE GLASS ON SHEET 4)			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
①	FRAME HEAD, JAMB, SILL & MULLION	SEE SHEET 2	6063-T6
②	MULLION INSERT	SEE SHEET 2	6063-T6
⑩	GLAZING ADAPTER FIXED PANEL	SEE SHEET 2	6063-T6
⑪	FIXED PANEL GLAZING LAMINATED GLASS	SEE SHEET 2	6063-T6
⑫	FIXED PANEL GLAZING INSULATED GLASS	SEE SHEET 2	6063-T6
⑰	5/8" ALUMINUM REINFORCEMENT	SEE SHEET 2	6063-T6
⑱	1/2" ALUMINUM REINFORCEMENT	SEE SHEET 2	6063-T6
⑱A	5/8" STEEL REINFORCEMENT	SEE SHEET 2	ASTM A-36 ZINC PLATED
⑲	WEDGE GASKET	SEE SHEET 2, 3" LONG, LOCATED @ ③① @ 8" (MIN.) O.C & 18" (MAX.) O.C	EPDM
⑳	SOLID RUBBER GASKET	SEE SHEET 2, 3" LONG, LOCATED @ ③① @ 8" (MIN.) O.C & 18" (MAX.) O.C	NEOPRENE/NYLON
㉑	GLAZING GASKET	SEE SHEET 2	TPE
㉓	#14 x 1/2" HEX HEAD S.S. TEK SCREW	MULLION INSERT CONNECTION (5" start & 9" max o.c)	STEEL
㉔	#14 x 2 1/2" H.H SCREW	FRAME ASSEMBLY	STEEL
③①	SETTING BLOCK	0.122"x0.5" (ULTRAFAB)	E.P.D.M.
③①	FIN SEAL PILE W/ PLASTIC	ULTRAFAB	-
③②	STRUCTURAL SILICONE DOW CORNING 995	ALL AROUND GLASS	SILICONE
③⑦	NON STRUCTURAL SILICONE DOW CORNING CONTRACTORS CONCRETE SEALANT (CCS)	AS SHOWN	SILICONE
④①	INSULATED GLASS UNIT SPACER	SEE SHEET 2	3105-H24 ALUMINUM

OPTIONAL SYSTEM #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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



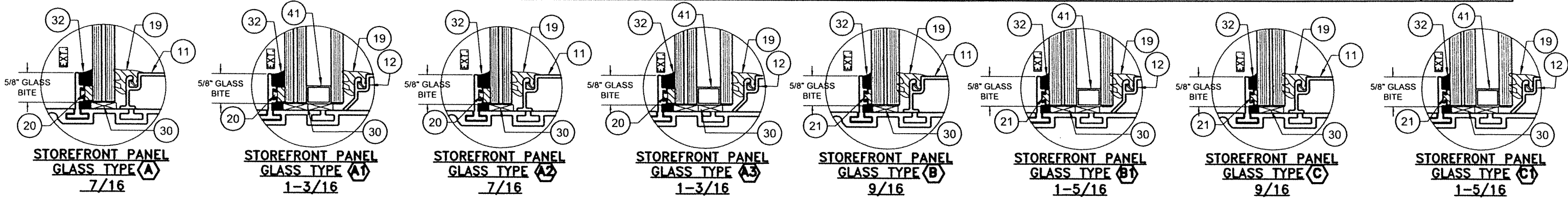
290 WEST 78 ROAD
HALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com

23-204
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

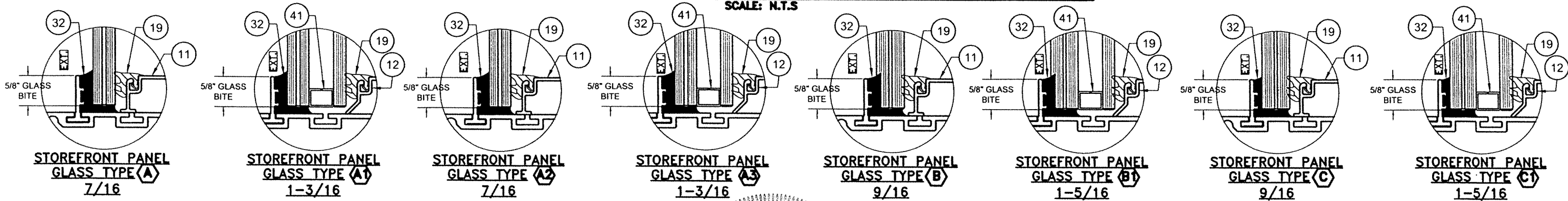
SHEET 3 of 43

BILL OF MATERIALS FOR GLASS		
COMPONENT #	DESCRIPTION	MATERIAL
A	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
A1	1-3/16" NOMINAL INSULATED-LAMINATED GLASS W/ 3/16" H.S. GLASS + 0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS
A2	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
A3	1-3/16" NOMINAL INSULATED-LAMINATED GLASS W/ 3/16" H.S. GLASS + 0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS
B	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
B1	1 5/16" NOMINAL INSULATED-LAMINATED GLASS W/ 1/4" H.S. GLASS + 0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS
C	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
C1	1 5/16" NOMINAL INSULATED-LAMINATED GLASS W/ 1/4" H.S. GLASS + 0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS



GLAZING DETAILS AT SETTING BLOCKS AT STOREFRONT

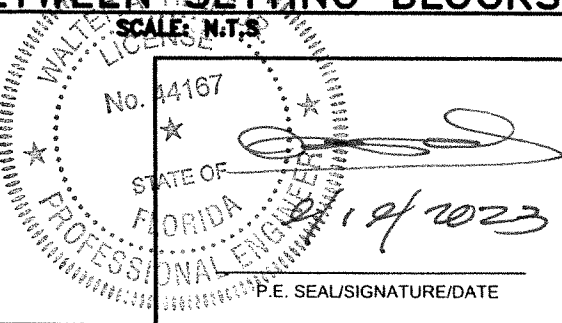
SCALE: N.T.S



GLAZING DETAILS IN BETWEEN SETTING BLOCKS AT STOREFRONT

SCALE: N.T.S

OPTIONAL SYSTEM #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

e-mail: tilteco@aol.com

CA-0006719

WALTER A. TILLIT Jr., P.E.

FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

W.H
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

SHEET 4 OF 43

290 WEST 78 ROAD
HIALEAH, FL 33014

PH: (954)226-5555/(305)558-8103

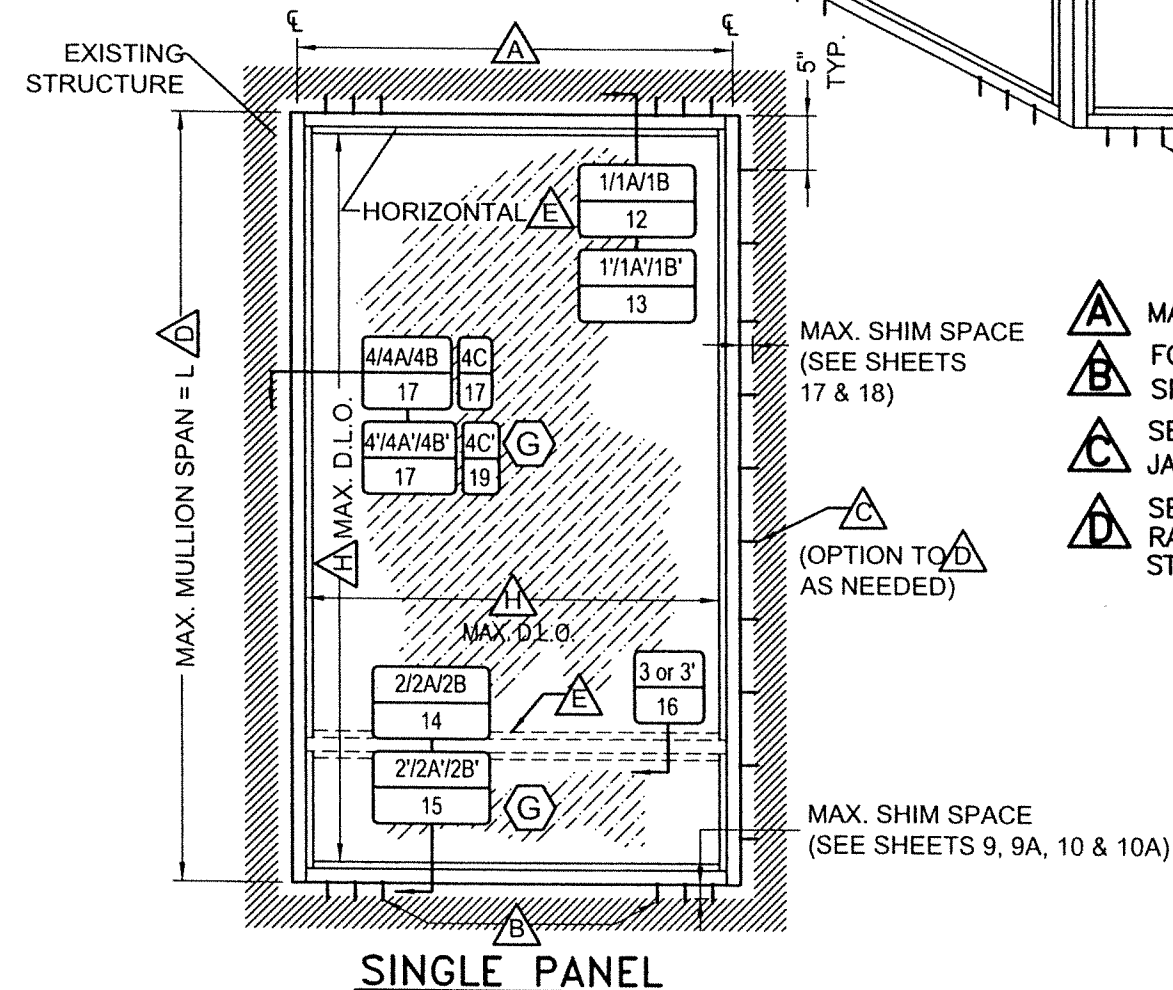
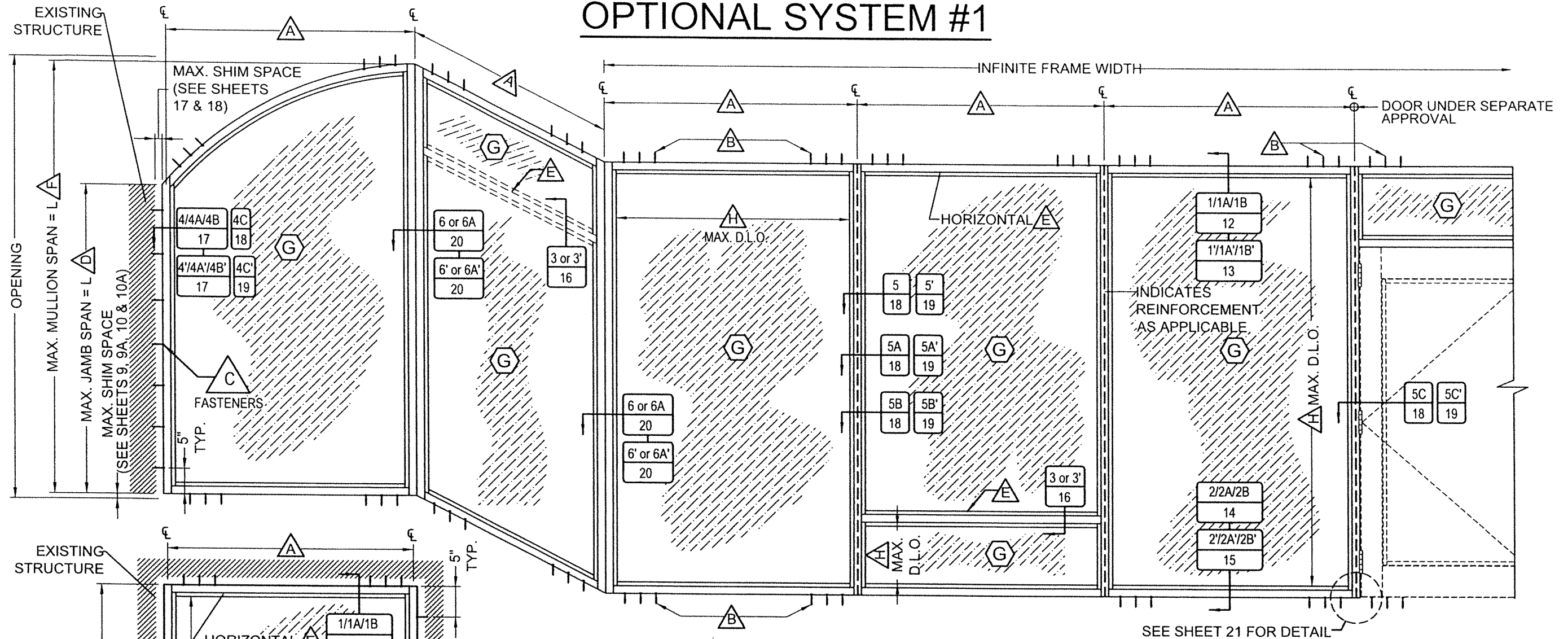
FAX: (305)558-6665

www.gigwindows.com

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

ISOMETRIC ELEVATION FOR SERIES JAZS-70.000 ALUM. STOREFRONT SYSTEM

OPTIONAL SYSTEM #1



FOOT NOTES:

- A** MAXIMUM MULLION SPACING IS 5'-0".
- B** FOR HEAD AND SILL FASTENERS QUANTITY, TYPES AND SPECS SEE SHEETS 30, 30A, 31 & 31A.
- C** SEE SHEET 32 FOR MAXIMUM ANCHOR SPACING FOR JAMB MULLION "A" ATTACHED TO EXISTING STRUCTURE.
- D** SEE SHEET 7 FOR MAXIMUM A.S.D DESIGN PRESSURE RATING FOR JAMB MULLION "A" NOT ATTACHED TO EXISTING STRUCTURE.
- E** USE OF HORIZONTALS MULLIONS (SEE SECTIONS 3 OR 3'/16) IS LIMITED TO 5'-0" BETWEEN MULLIONS.
- F** FOR MAXIMUM MULLION SPAN SEE SHEETS 7 & 8.
- G** FOR GLAZING CONFIGURATIONS SEE SHEET 4.
- H** FOR MAXIMUM D.L.O. VS A.S.D DESIGN PRESSURE RATING FOR GLASS, SEE SCHEDULE ON SHEET 6.

*** NOTE: ELEVATIONS FOR SINGLE & MULTIPLE PANELS FIXED GLASS WALL SERIES 70000 MAY BE INSTALLED ROTATED 90° FROM ABOVE SHOWN ORIENTATION.**

WALTER A. TILIT
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE
4/14/2023

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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZS 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS
GIG WINDOWS & DOORS
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 20-276	08/30/23	2	-	-

W.H
DRAWN BY:
08/30/2023
DATE
23-204
DRAWING No
SHEET 5 OF 43

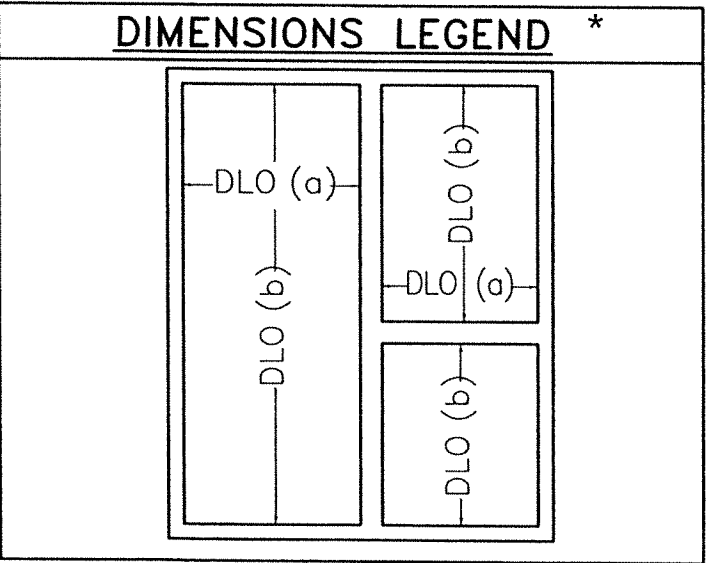
MAXIMUM DESIGN PRESSURE RATING (psf) SCHEDULE FOR A GIVEN GLASS TYPE
AND GLASS D.L.O PANEL DIMENSIONS "a" (in) x "b" (in) (SEE LEGEND)

GLASS TYPE A ₁ & A ₁ : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
6"	from 6" to 60"	±66.0
9"	from 9" to 90"	±66.0
12"	from 12" to 120"	±66.0
15"	from 15" to 150"	±66.0
18"	from 18" to 180"	±66.0
21"	from 21" to 210"	±66.0
24"	from 24" to 190"	±66.0
27"	from 27" to 168"	±66.0
30"	from 30" to 144"	±66.0
32"	from 32" to 143"	±66.0
34"	from 34" to 135"	±66.0
36"	from 36" to 127"	±66.0
38"	from 38" to 120"	±66.0
40"	from 38" to 114"	±66.0
42"	from 42" to 109"	±66.0
44"	from 44" to 104"	±66.0
45"	from 45" to 101.5"	±64.9
46"	from 46" to 99.5"	±63.5
48"	from 48" to 95"	±60.8
50"	from 50" to 91.5"	±58.4
52"	from 52" to 88.0"	±56.2
54"	from 54" to 84.5"	±54.1
56"	from 56" to 81.5"	±52.1
57"	from 57" to 80"	±51.2

GLASS TYPE A ₂ & A ₃ : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
6"	from 6" to 60"	±55.0
9"	from 9" to 90"	±55.0
12"	from 12" to 120"	±55.0
15"	from 15" to 150"	±55.0
18"	from 18" to 180"	±55.0
21"	from 21" to 210"	±55.0
24"	from 24" to 240"	±55.0
27"	from 27" to 270"	±55.0
30"	from 30" to 144"	±55.0
32"	from 32" to 144"	±55.0
34"	from 34" to 144"	±55.0
36"	from 36" to 144"	±55.0
38"	from 38" to 144"	±55.0
40"	from 38" to 144"	±55.0
42"	from 42" to 144"	±55.0
44"	from 44" to 144"	±55.0
45"	from 45" to 144"	±55.0
46"	from 46" to 144"	±54.3
48"	from 48" to 144"	±55.0
50"	from 50" to 144"	±55.0
52"	from 52" to 144"	±55.0
54"	from 54" to 144"	±55.0
56.25"	from 56.25" to 139.5"	±55.0
57"	from 57" to 137.5"	±54.3

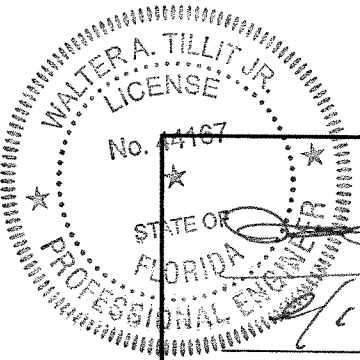
GLASS TYPE B & B ₁ : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
6"	from 6" to 60"	±90.0
9"	from 9" to 90"	±90.0
12"	from 12" to 120"	±90.0
15"	from 15" to 150"	±90.0
18"	from 18" to 180"	±90.0
21"	from 21" to 169"	±90.0
24"	from 24" to 148"	±90.0
27"	from 27" to 131"	±90.0
30"	from 30" to 119"	±90.0
32"	from 32" to 111.5"	±90.0
34"	from 34" to 105"	±90.0
36"	from 36" to 99"	±90.0
38"	from 38" to 94"	±90.0
40"	from 38" to 89"	±90.0
42"	from 42" to 85"	±90.0
44"	from 44" to 81"	±90.0
45"	from 45" to 79.5"	±90.0
46"	from 46" to 77.5"	±88.0
48"	from 48" to 74.5"	±84.4
50"	from 50" to 71"	±81.0
52"	from 52" to 68.5"	±77.9
54"	from 54" to 66"	±75.0
56"	from 56" to 63.5"	±72.3
57"	from 57" to 62.5"	±71.1

GLASS TYPE C & C ₁ : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
6"	from 6" to 60"	+90,-180
9"	from 9" to 90"	+90,-180
12"	from 12" to 120"	+90,-180
15"	from 15" to 150"	+90,-180
18"	from 18" to 180"	+90,-180
21"	from 21" to 210"	+90,-180
24"	from 24" to 188"	+90,-180
27"	from 27" to 167"	+90,-180
30"	from 30" to 144"	+90,-180
32"	from 32" to 141.5"	+90,-180
34"	from 34" to 133"	+90,-180
36"	from 36" to 126"	+90,-180
38"	from 38" to 119"	+90,-180
40"	from 38" to 113"	+90,-180
42"	from 42" to 108"	+90,-180
44"	from 44" to 103"	+90,-180
45"	from 45" to 100.5"	+90,-180
46"	from 46" to 98.5"	+90,-180
48"	from 48" to 94"	+90,-180
50"	from 50" to 90.5"	+90,-180
52"	from 52" to 87"	+90,-180
54"	from 54" to 84"	+90,-180
56"	from 56" to 80.5"	+90,-180
57"	from 57" to 79.5"	+90,-180



* SIDE "a" IS ALWAYS EQUAL OR SHORTER THAN "b".
"a", "b" MAY BE ORIENTED IN ANY DIRECTION.

OPTIONAL SYSTEM #1
(SEE SHEET 4 FOR GLASS CONFIGURATION)



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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

W.H
DRAWN BY:

08/30/2023
DATE

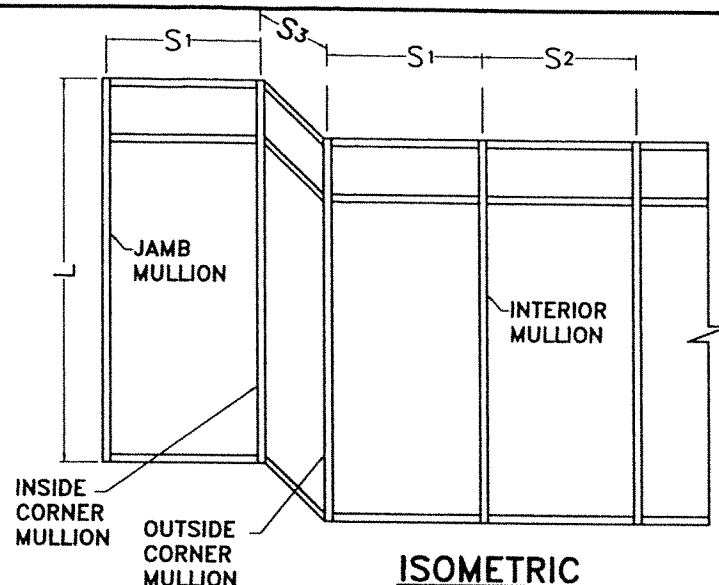
23-204
DRAWING No

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

WINDOWS & DOORS

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

SHEET 6 OF 43



ISOMETRIC

L = MULLION SPAN

EFFECTIVE SPACING $b = \frac{S_1 + S_2}{2}$ (SEE SCHEDULE,)
(FOR INTERIOR MULLION)

EFFECTIVE SPACING $b = \frac{S_1 \text{ AND } S_3}{2}$ (SEE SCHEDULE)
(FOR CORNER MULLION)

EFFECTIVE SPACING $b = \frac{S_1}{2}$ (SEE SCHEDULE)
(FOR JAMB MULLION)

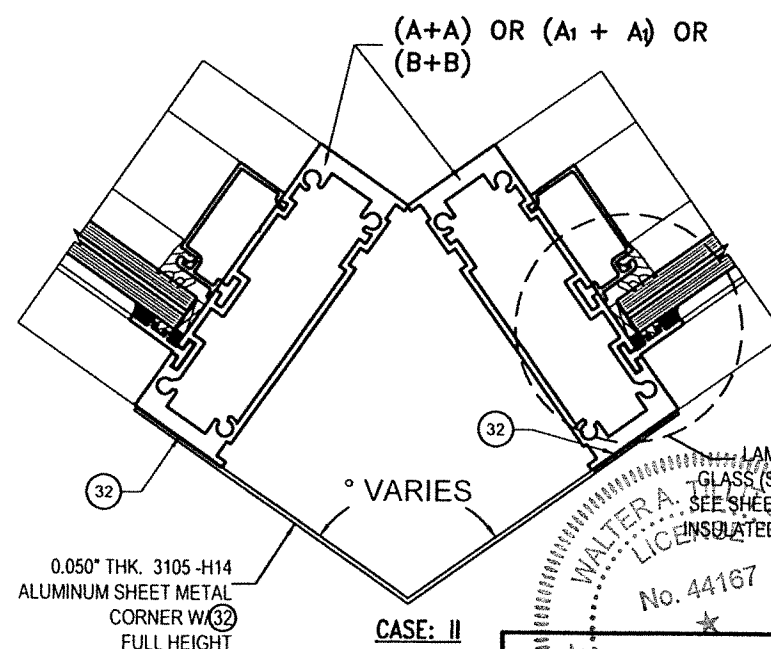
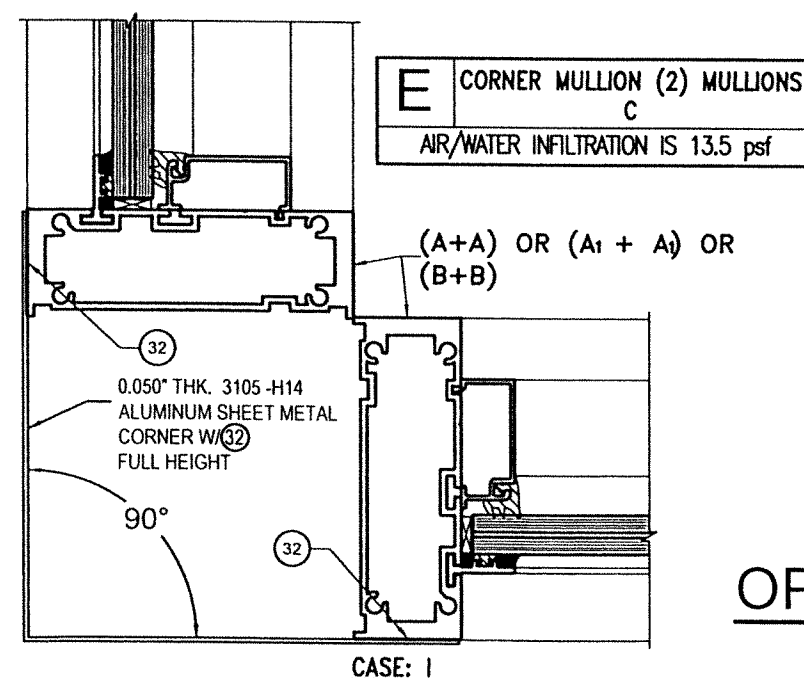
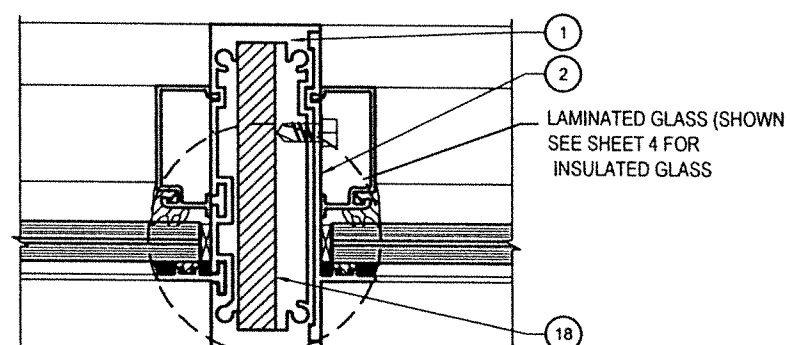
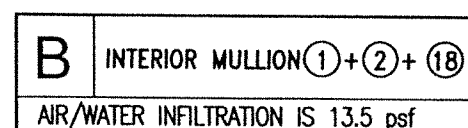
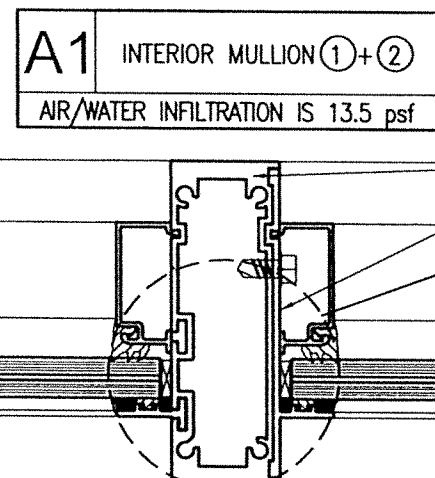
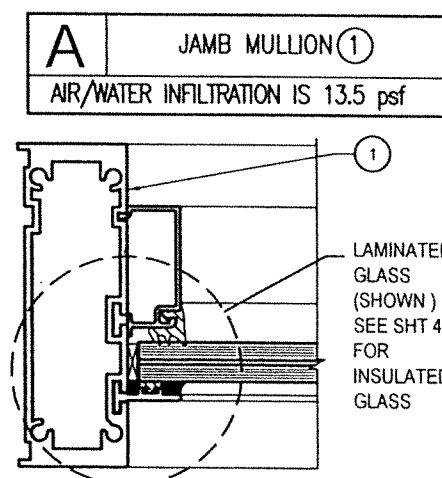
DEFINITIONS

A : UNREINFORCED JAMB OR CORNER MULLION
(SEE SHEET 5 FOR APPLICABLE SECTIONS)

A1 : UNREINFORCED INTERIOR OR CORNER MULLION
(SEE SHEET 5 FOR APPLICABLE SECTIONS)

B : REINFORCED INTERIOR OR CORNER MULLION
(SEE SHEET 5 FOR APPLICABLE SECTIONS)

E : CORNER MULLION (EITHER INSIDE OR OUTSIDE)
MADE OF (2)A OR (2)A1 OR (2)B MULLIONS



OPTIONAL SYSTEM #1

MAXIMUM MULLION SPAN "L"(FT) SCHEDULE FOR A GIVEN DESIGN
PRESSURE RATING AND A GIVEN MULLION EFFECTIVE SPACING "b" *

MAXIMUM DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING FOR A or E ▲ "b" (Ft-in)	EFFECTIVE SPACING FOR A1 or B "b" (Ft-in)	MAX. SPAN A or E (A+A) "L" (Ft-in)	MAX. SPAN A1 or E (A1+A1) "L" (Ft-in)	MAX. SPAN B or E (B+B) "L" (Ft-in)
47.8	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	11'-8" 10'-7" 9'-6"	9'-0" 9'-0" 9'-0"	11'-8" 10'-1" 9'-0"
50.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	11'-8" 10'-4" 9'-3"	9'-0" 9'-0" 9'-0"	11'-5" 9'-10" 8'-10"
55.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	11'-4" 9'-10" 8'-7"	9'-0" 9'-0" 8'-10"	10'-10" 9'-5" 8'-1"
60.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	10'-11" 9'-5" 8'-5"	9'-0" 9'-0" 7'-11"	10'-5" 9'-1" 8'-1"
65.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	10'-6" 9'-1" 7'-4"	9'-0" 9'-0" 7'-4"	10'-0" 8'-8" 7'-9"
70.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	10'-1" 8'-6" 6'-9"	9'-0" * 9'-0" * 7'-2" *	9'-8" 8'-4" 7'-2"
75.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	9'-9" 7'-11" 6'-4"	-	9'-4" 8'-1" 6'-9"
80.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	9'-5" 7'-5" 6'-0"	-	9'-0" 7'-10" 6'-4"
85.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	9'-4" 7'-0" 5'-7"	-	8'-9" 7'-5" 5'-11"
90.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	8'-9" 6'-7" 5'-3"	-	8'-7" 6'-10" 5'-7"

* ONLY VALID FOR UP TO 66 psf.

▲ VALID FOR "E" CORNER MULLION CONSISTING OF (A+A) OR (A1+A1) OR (B+B)

* MAXIMUM POSITIVE A.S.D. DESIGN PRESSURE RATING IS 90 psf
FOR MULLION A, A1 & B.

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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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

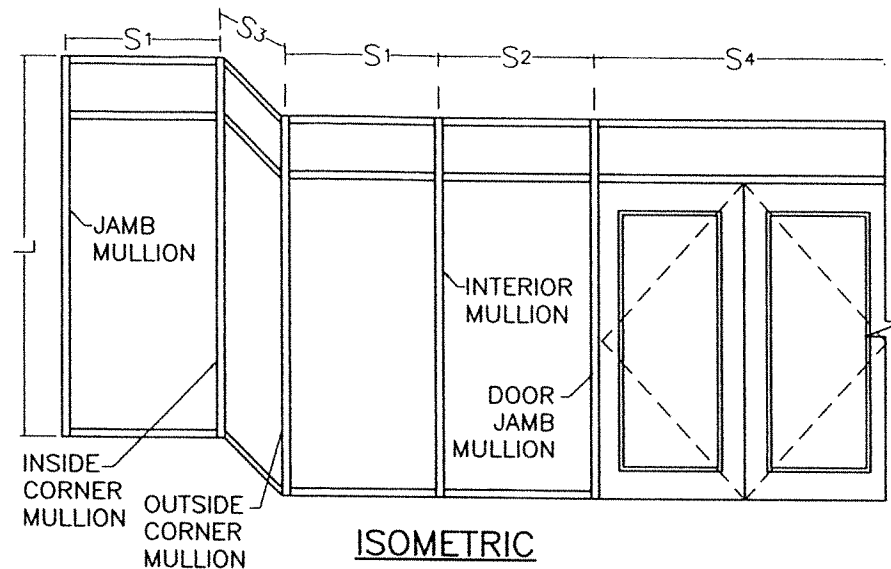
REV. No DESCRIPTION DATE REV. No DESCRIPTION DATE
1 OLD 20-276 08/30/23 2 - -

W.H
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

SHEET 7 OF 43



ISOMETRIC

L = MULLION SPAN

EFFECTIVE SPACING $b = \frac{S_1 + S_2}{2}$ (SEE SCHEDULE,
(FOR INTERIOR MULLION)

EFFECTIVE SPACING $b = \frac{S_1}{2} \text{ AND } \frac{S_3}{2}$ (SEE SCHEDULE)
(FOR CORNER MULLION)

EFFECTIVE SPACING $b = \frac{S_2 + S_4}{2}$ (SEE SCHEDULE)
(FOR DOOR JAMB MULLION)

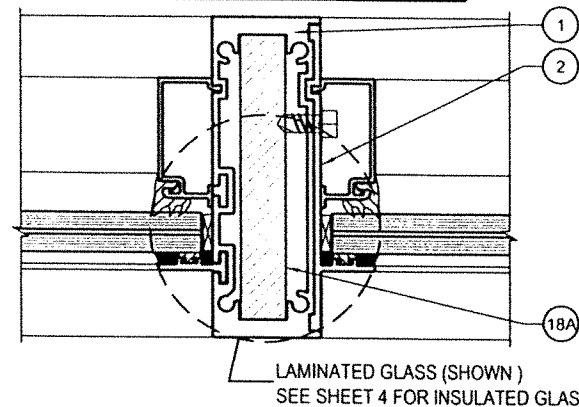
DEFINITIONS

C : REINFORCED INTERIOR OR CORNER MULLION
(SEE SHEET 5 FOR APPLICABLE SECTIONS)

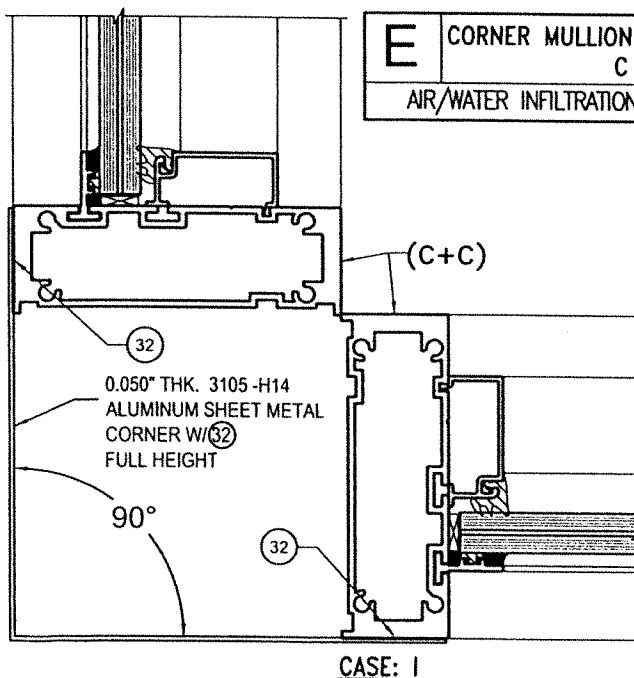
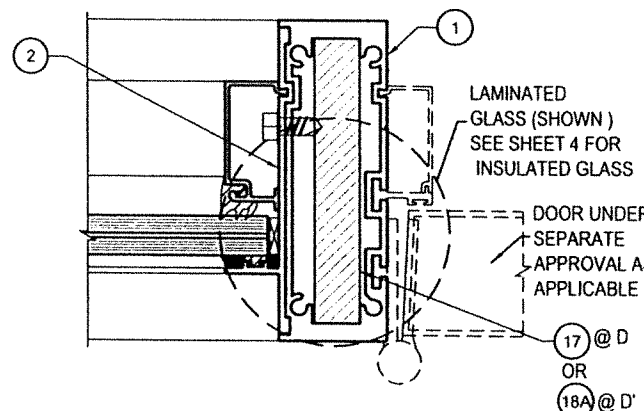
D,D' : REINFORCED DOOR JAMB OR INTERIOR MULLIONS
(SEE SHEET 5 FOR APPLICABLE SECTIONS)

E : CORNER MULLION (EITHER INSIDE OR OUTSIDE)
MADE OF (2) C MULLIONS.

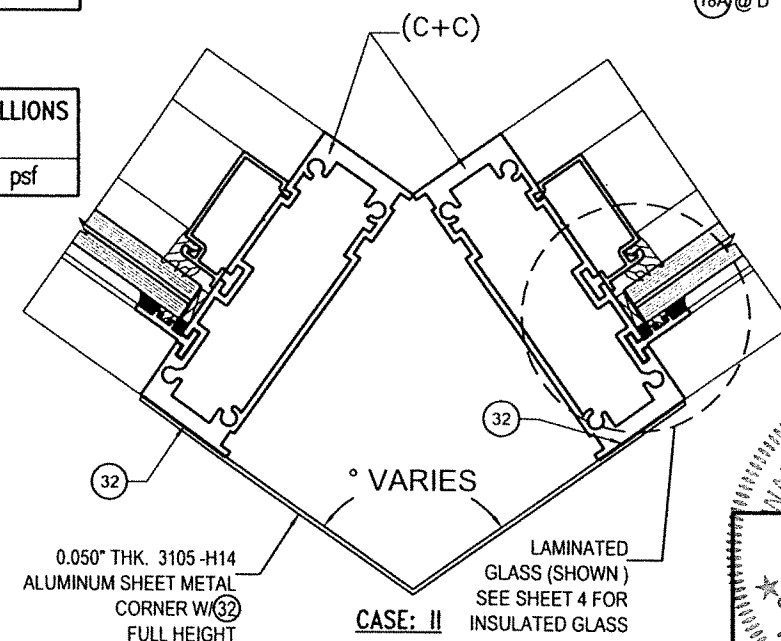
C INTERIOR MULLION (1) + (18A)
AIR/WATER INFILTRATION IS 13.5 psf



D & D' INTERIOR MULLION OR DOOR JAMB
MULLION D W/((1)+(2)+(17)) OR
INTERIOR MULLION OR DOOR JAMB
MULLION D' W/((1)+(2)+(18A))
AIR/WATER INFILTRATION IS 13.5 psf



E CORNER MULLION (2) MULLIONS
C
AIR/WATER INFILTRATION IS 13.5 psf



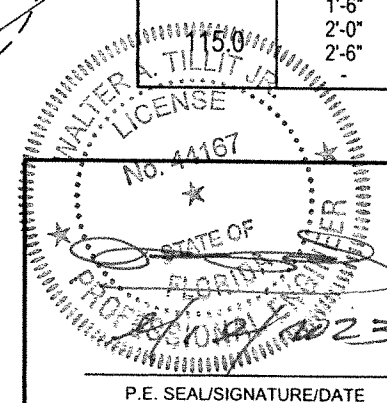
OPTIONAL SYSTEM #1

MAXIMUM MULLION SPAN "L"(FT) SCHEDULE FOR A GIVEN DESIGN
PRESSURE RATING AND A GIVEN MULLION EFFECTIVE SPACING "b" *

MAXIMUM ASD DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING FOR E (C+C) "b" (Ft-in)	MAX. SPAN E (C+C) "L" (Ft-in)	EFFECTIVE SPACING FOR C, D & D' "b" (Ft-in)		MAX. SPAN C & D' "L" (Ft-in)		MAX. SPAN D "L" (Ft-in)	MAXIMUM ASD DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING FOR E (C+C) "b" (Ft-in)	MAX. SPAN E (C+C) "L" (Ft-in)	EFFECTIVE SPACING FOR C & D' "b" (Ft-in)		MAX. SPAN C & D' "L" (Ft-in)	
			C	D&D'	C	D'					C	D'	C	D'
			"b" (Ft-in)	"L" (Ft-in)	"b" (Ft-in)	"L" (Ft-in)					"b" (Ft-in)	"L" (Ft-in)	"b" (Ft-in)	"L" (Ft-in)
47.8	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 12'-0"	12'-0" 12'-0" 12'-0"	11'-8" 11'-2" 10'-5"	120.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 11'-7"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	10'-11" 9'-7" 8'-7"	10'-11" 9'-7" 8'-7"
50.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 12'-0"	12'-0" 12'-0" 12'-0"	11'-8" 11'-1" 10'-3"	125.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 11'-5"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	10'-9" 9'-5" 8'-5"	10'-9" 9'-5" 8'-5"
55.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 11'-10"	12'-0" 12'-0" 11'-3"	11'-8" 10'-9" 9'-5"	130.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 11'-3"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	10'-7" 9'-3" 8'-3"	10'-7" 9'-3" 8'-3"
60.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 11'-6"	12'-0" 12'-0" 11'-6"	11'-8" 10'-5" 9'-8"	135.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 11'-1"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	10'-6" 9'-0" 8'-1"	10'-6" 9'-0" 8'-1"
65.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 11'-3"	12'-0" 12'-0" 11'-3"	11'-2" 10'-2" 9'-5"	140.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 11'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	10'-3" 8'-10" 8'-0"	10'-3" 8'-10" 8'-0"
70.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 10'-11"	12'-0" 12'-0" 10'-11"	10'-10" 9'-2" 8'-8"	145.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-10"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	10'-0" 8'-9" 7'-2"	10'-0" 8'-9" 7'-2"
75.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 10'-8"	12'-0" 12'-0" 10'-2"	10'-7" 9'-8" 8'-6"	150.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-9"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	9'-11" 8'-7" 7'-0"	9'-11" 8'-7" 7'-0"
80.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 10'-6"	12'-0" 12'-0" 10'-6"	10'-5" 9'-6" 8'-8"	155.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-7"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	9'-9" 8'-5" 7'-6"	9'-9" 8'-5" 7'-6"
85.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	12'-0" 12'-0" 10'-2"	12'-0" 12'-0" 9'-4"	10'-2" 9'-5" 8'-2"	160.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-6"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	9'-7" 8'-4" 7'-5"	9'-7" 8'-4" 7'-5"
90.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	11'-11" 10'-10" 9'-11"	11'-11" 10'-10" 9'-11"	10'-0" 9'-1" 8'-2"	165.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-4"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	9'-5" 8'-2" 7'-4"	9'-5" 8'-2" 7'-4"
95.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	11'-9" 10'-6" 9'-8"	11'-9" 10'-6" 9'-8"	- - - 8'-10"	170.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-2"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	9'-4" 8'-1" 7'-2"	9'-4" 8'-1" 7'-2"
100.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	11'-7" 10'-6" 9'-5"	11'-7" 10'-6" 9'-5"	- - - 8'-7"	175.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	9'-2" 7'-11" 7'-1"	9'-2" 7'-11" 7'-1"
105.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	11'-5" 10'-3" 9'-2"	11'-5" 10'-3" 9'-2"	- - - 8'-4"	180.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 9'-10"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	9'-0" 7'-10" 7'-0"	9'-0" 7'-10" 7'-0"
110.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 12'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	11'-2" 10'-0" 9'-0"	11'-2" 10'-0" 9'-0"	- - - 8'-2"							
	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 11'-9"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 5'-0"	11'-0" 9'-9" 8'-9"	11'-0" 9'-9" 8'-9"	- - - 8'-0"							

* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY MULLION IS 90.0 psf.

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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS
W.H
DRAWN BY:
08/30/2023
DATE
23-204
DRAWING No
SHEET 8 OF 43

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

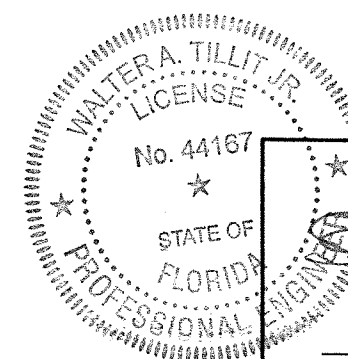
REV. No DESCRIPTION DATE REV. No DESCRIPTION DATE
1 OLD 20-276 08/30/23 2 - -

**MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB,
CORNER & JAMB MULLION'S HEAD/SILL CONNECTIONS ***

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 1/4" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
			CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD
	JAMB OR CORNER MULLION	INTERIOR OR DOOR JAMB MULLION	A & B	C	A & B	C	A & B	C	A & B	C	A & B	C
7'-0"	1'-6"	3'-0"	107.8	67.4	161.7	101.0	180.0	135.0	180.0	168.5	180.0	180.0
	1'-9"	3'-6"	92.4	57.8	138.9	86.6	180.0	115.5	180.0	144.4	180.0	173.3
	2'-0"	4'-0"	80.9	50.6	121.3	75.8	161.7	101.1	180.0	126.3	180.0	151.6
	2'-3"	4'-6"	71.9	44.9	107.8	67.4	143.8	89.8	180.0	112.3	180.0	134.8
	2'-6"	5'-0"	64.7	40.4	97.0	60.6	129.4	80.9	161.7	101.1	180.0	121.3
	-	5'-6"	58.8	36.8	88.2	55.1	117.6	73.5	147.0	91.9	176.0	110.0
7'-6"	-	6'-0"	53.9	33.7	80.9	50.6	107.8	67.4	134.8	84.3	161.7	101.1
	1'-6"	3'-0"	100.0	62.7	150.0	94.0	180.0	125.3	180.0	156.7	180.0	180.0
	1'-9"	3'-6"	85.9	53.8	128.0	80.6	180.0	107.5	180.0	134.3	180.0	161.2
	2'-0"	4'-0"	75.2	47.1	112.8	70.6	150.4	94.1	180.0	117.8	180.0	141.2
	2'-3"	4'-6"	66.9	41.8	100.2	62.6	133.7	83.3	180.0	104.2	180.0	125.0
	2'-6"	5'-0"	60.2	37.6	90.2	56.4	120.3	75.2	150.4	94.0	180.0	112.8
8'-0"	-	5'-6"	54.7	34.2	82.0	51.3	109.3	68.4	136.7	85.6	163.7	102.7
	-	6'-0"	50.1	31.3	75.2	47.0	100.3	62.6	125.4	78.3	150.3	93.9
	1'-6"	3'-0"	94.0	58.9	141.0	88.4	180.0	117.9	180.0	147.3	180.0	176.8
	1'-9"	3'-6"	80.7	50.6	121.1	75.9	161.7	101.1	180.0	126.4	180.0	151.7
	2'-0"	4'-0"	70.7	44.3	106.0	66.4	141.4	88.5	176.7	110.7	180.0	132.8
	2'-3"	4'-6"	62.9	39.3	94.2	58.9	125.7	78.6	157.2	98.2	180.0	117.9
8'-6"	2'-6"	5'-0"	56.6	35.3	84.8	53.0	113.1	70.7	141.4	88.4	169.8	106.0
	-	5'-6"	51.4	32.4	77.1	48.2	102.7	64.3	128.5	80.4	153.9	96.4
	-	6'-0"	47.1	29.4	70.7	44.1	94.2	58.8	117.9	73.6	141.3	88.3
	1'-6"	3'-0"	88.4	55.4	132.5	83.0	177.6	110.7	180.0	138.4	180.0	166.1
	1'-9"	3'-6"	75.9	47.6	113.8	71.3	152.0	95.1	180.0	118.9	180.0	142.7
	2'-0"	4'-0"	66.5	41.6	99.6	62.5	132.9	83.3	166.5	104.1	180.0	124.9
9'-0"	2'-3"	4'-6"	59.1	36.9	88.5	55.4	118.2	73.9	147.8	92.4	177.6	110.8
	2'-6"	5'-0"	53.2	33.2	79.7	49.8	106.3	66.4	133.2	83.0	159.6	99.5
	-	5'-6"	48.3	30.2	72.5	45.3	96.5	60.3	120.8	75.4	144.7	90.5
	-	6'-0"	44.3	27.6	66.5	41.5	88.5	55.3	110.8	69.1	132.8	82.9
	1'-6"	3'-0"	83.1	52.1	124.6	78.1	166.9	104.2	180.0	130.2	180.0	156.2
	1'-9"	3'-6"	71.3	44.7	107.0	67.1	142.9	89.5	179.7	111.9	180.0	134.2
9'-6"	2'-0"	4'-0"	62.5	39.1	93.6	58.7	124.9	78.2	157.3	97.8	180.0	117.3
	2'-3"	4'-6"	55.6	34.7	83.2	52.0	111.1	69.4	138.7	86.7	166.9	104.0
	2'-6"	5'-0"	50.0	31.2	74.0	46.8	99.9	62.4	125.9	78.0	150.0	93.6
	-	5'-6"	45.4	28.4	68.2	42.6	90.7	56.8	113.6	71.0	136.0	83.2
10'-0"	-	6'-0"	41.6	25.9	62.5	38.9	83.2	51.9	104.1	64.9	124.8	77.8

* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ALL CASES IS 90.0 psf

OPTIONAL SYSTEM #1



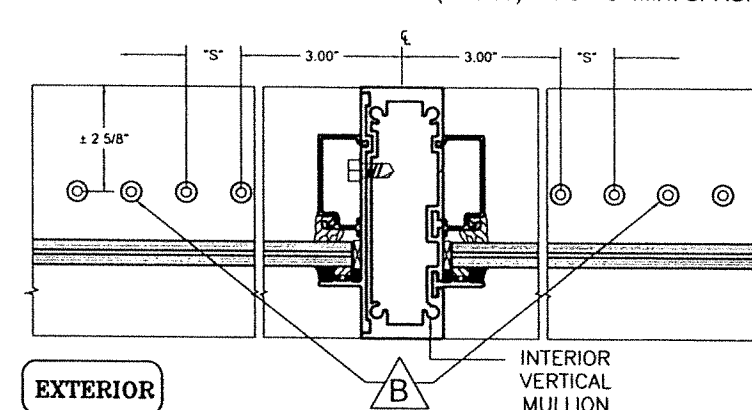
P.E. SEAL/SIGNATURE/DATE

FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. f_c = 2.730 ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. (F_y = 33 Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY) ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

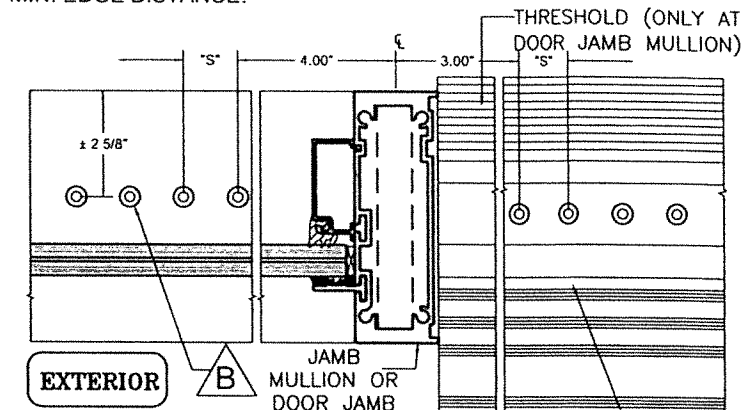
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

SILL OR HEAD CONNECTION DETAIL @ INTERIOR VERTICAL MULLION

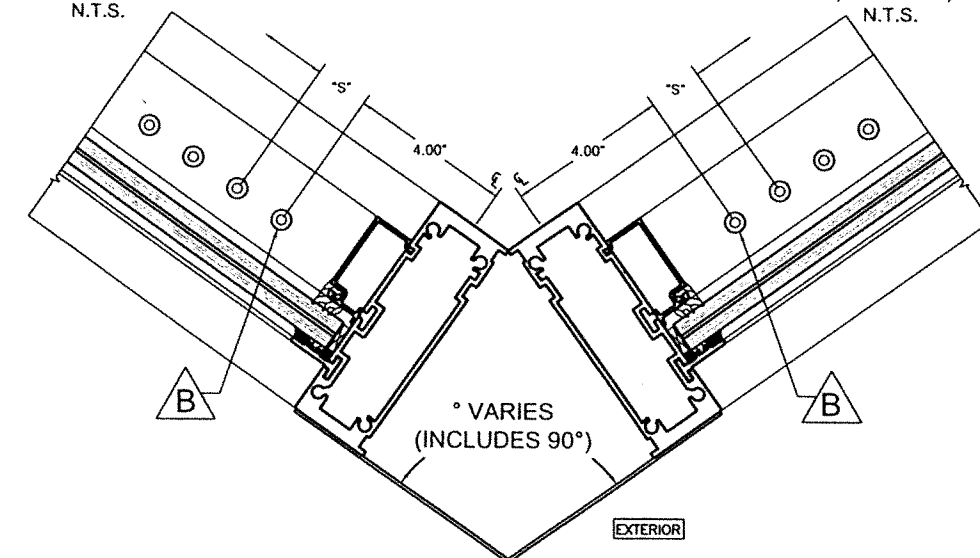
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

SILL OR HEAD CONNECTION DETAIL @ JAMB OR DOOR JAMB MULLION (SEE SHEET 21)

(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT CORNER, EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
N.T.S.

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

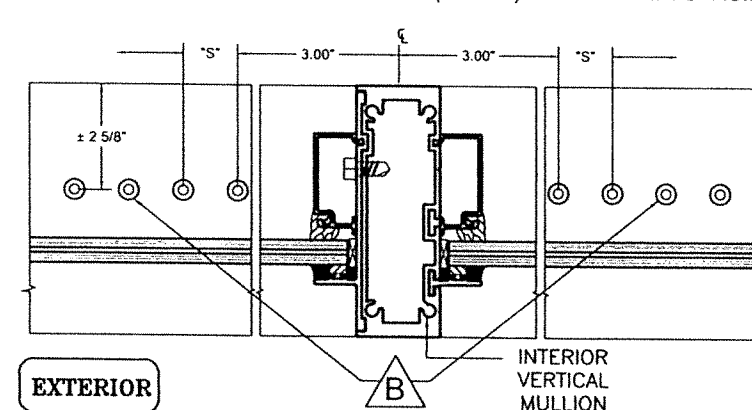
 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305 - VIRGINIA GARDENS, FL. 33166 Phone : (305) 871-1530 , Fax : (305) 871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS		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		08/30/2023 DATE
REV. No DESCRIPTION DATE 1 OLD 20-276 08/30/23		REV. No DESCRIPTION DATE 2 - - -		23-204 DRAWING No
				SHEET 9 OF 43

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. $f_c = 2.730$ ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. ($F_y = 33$ Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY) ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

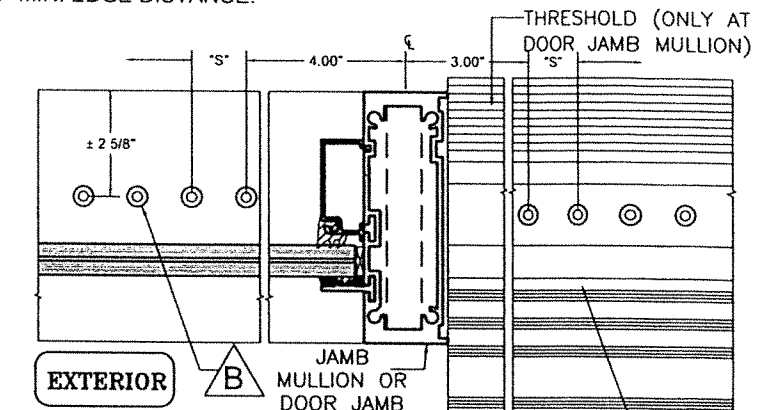
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD ($G=0.55$) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

SILL OR HEAD CONNECTION DETAIL @ INTERIOR VERTICAL MULLION

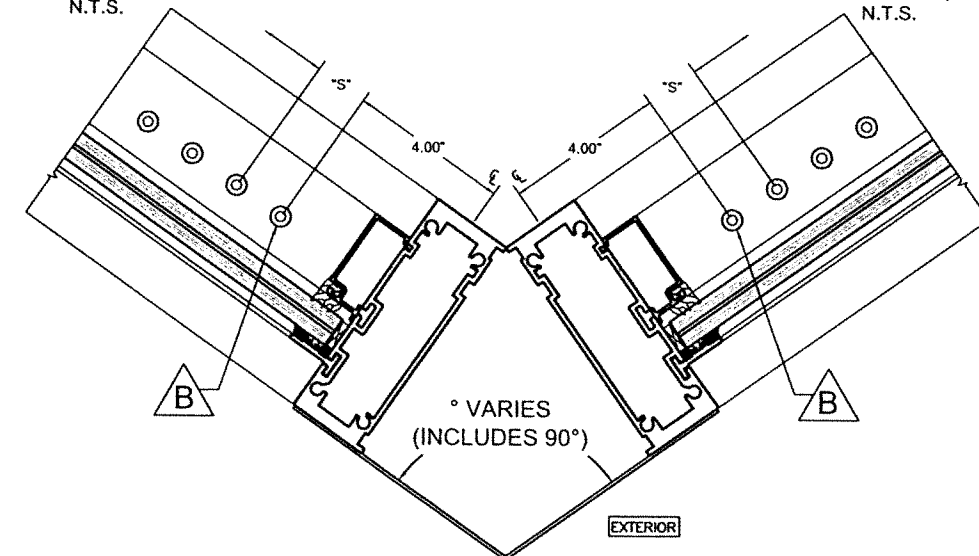
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

SILL OR HEAD CONNECTION DETAIL @ JAMB OR DOOR JAMB MULLION (SEE SHEET 21)

(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT CORNER, EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
N.T.S.

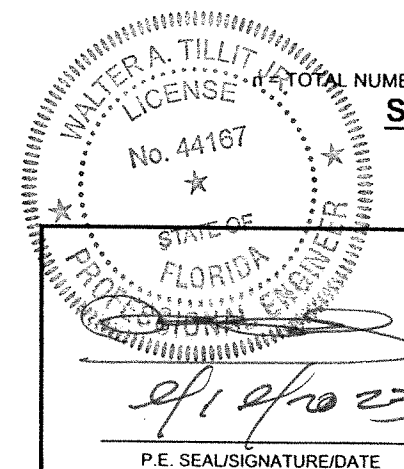
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB, CORNER & JAMB MULLION'S HEAD/SILL CONNECTIONS *

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 1/4" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
	JAMB OR CORNER MULLION	INTERIOR OR DOOR JAMB MULLION	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C
9'-6"	1'-6"	3'-0"	78.1	49.5	117.1	74.2	156.9	99.0	180.0	123.7	180.0	148.5
	1'-9"	3'-6"	67.0	42.5	100.6	63.7	134.3	84.9	170.3	106.2	180.0	127.4
	2'-0"	4'-0"	58.8	37.1	88.0	55.7	117.4	74.3	149.0	98.9	178.8	111.4
	2'-3"	4'-6"	52.3	33.0	78.2	49.4	104.4	67.9	130.4	82.4	156.9	98.9
	2'-6"	5'-0"	47.0	29.6	70.4	44.5	93.9	59.3	118.3	74.1	141.0	88.9
	-	5'-6"	42.7	27.0	64.1	40.5	85.3	54.0	106.7	67.5	127.8	80.9
10'-0"	-	6'-0"	39.1	24.6	58.8	36.9	78.2	49.2	97.9	61.5	117.3	73.8
	1'-6"	3'-0"	74.2	47.0	111.2	70.5	149.0	94.0	180.0	117.6	180.0	141.0
	1'-9"	3'-6"	63.7	40.4	95.6	60.6	129.4	80.8	161.8	100.9	180.0	121.1
	2'-0"	4'-0"	55.9	35.2	83.6	52.9	111.5	70.5	141.6	88.1	169.9	105.7
	2'-3"	4'-6"	49.7	31.4	74.3	47.0	99.2	62.7	123.9	78.4	149.9	94.0
	2'-6"	5'-0"	44.7	28.1	66.9	42.2	90.0	56.2	112.4	70.3	134.0	84.4
10'-6"	-	5'-6"	40.6	25.6	60.9	38.5	81.1	51.3	101.4	64.1	121.4	77.0
	-	6'-0"	37.1	23.4	55.9	35.0	74.4	46.7	93.0	58.4	111.4	70.1
	1'-6"	3'-0"	70.5	44.7	105.6	67.0	141.6	89.3	179.7	111.6	180.0	134.0
	1'-9"	3'-6"	60.5	38.4	90.8	57.6	123.2	76.8	153.7	96.0	180.0	115.1
	2'-0"	4'-0"	53.1	33.4	74.7	50.2	105.9	66.9	134.5	83.6	161.4	100.3
	2'-3"	4'-6"	47.2	29.8	70.6	44.7	94.2	59.7	117.7	74.6	141.6	89.5
11'-0"	2'-6"	5'-0"	42.5	26.7	63.6	40.0	85.4	53.4	106.8	66.7	127.3	80.8
	-	5'-6"	38.6	24.2	57.9	36.5	77.0	48.6	96.3	60.8	115.3	73.0
	-	6'-0"	35.2	22.2	53.1	33.3	70.7	44.5	88.4	55.6	105.8	66.7
	1'-6"	3'-0"	67.0	42.5	100.3	63.7	134.5	84.9	170.7	106.2	180.0	127.4
	1'-9"	3'-6"	57.5	36.5	86.3	54.7	117.0	73.0	146.0	91.2	176.6	109.4
	2'-0"	4'-0"	50.4	31.7	75.4	47.6	100.6	63.5	127.8	79.3	153.3	95.1
11'-6"	2'-3"	4'-6"	44.8	28.3	67.1	42.5	89.5	56.6	111.8	70.8	134.5	84.9
	2'-6"	5'-0"	40.4	25.4	59.5	38.0	81.2	50.7	101.5	63.4	120.9	76.1
	-	5'-6"	36.7	23.0	55.0	34.5	73.2	46.0	91.5	57.5	109.5	69.0
	-	6'-0"	33.4	21.1	50.4	31.6	67.2	42.2	84.0	52.7	100.5	63.3
	1'-6"	3'-0"	64.3	40.8	96.3	61.2	129.1	81.6	163.9	102.0	180.0	122.4
	1'-9"	3'-6"	55.2	35.0	82.8	52.6	112.3	70.1	140.2	87.6	169.5	105.1
12'-0"	2'-0"	4'-0"	48.4	30.4	72.4	45.6	96.6	60.9	122.7	76.1	147.2	91.3
	2'-3"	4'-6"	43.0	27.2	64.4	40.8	85.9	54.3	107.3	67.9	129.1	81.5
	2'-6"	5'-0"	38.8	24.4	57.1	36.6	78.7	48.8	97.4	61.0	116.1	73.2
	-	5'-6"	35.2	22.1	52.8	33.1	71.6	44.2	88.1	55.2	105.1	66.2
	-	6'-0"	32.1	20.3	48.4	30.4	65.6	40.5	80.6	50.6	96.5	60.8
	1'-6"	3'-0"	61.7	39.2	92.4	58.8	123.9	78.4	99.7	98.0	180.0	117.6
12'-6"	1'-9"	3'-6"	53.0	33.6	79.5	50.4	107.8	67.2	134.5	84.0	162.7	100.8
	2'-0"	4'-0"	46.5	29.2	69.5	43.8	92.7	58.4	117.7	73.0	141.3	87.6
	2'-3"	4'-6"	41.3	26.1	61.8	39.2	82.5	52.2	103.0	65.3	123.9	78.3
	-	5'-0"	37.2	23.4	54.8	35.1	75.6	48.4	93.5	58.6	111.5	70.3
	-	5'-6"	33.8	21.2	50.7	31.8	68.7	42.4	84.5	53.0	100.9	63.6
	-	6'-0"	30.8	19.5	46.5	29.2	63.0	39.0	77.4	48.7	92.6	58.5

* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

OPTIONAL SYSTEM #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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

GIG WINDOWS & DOORS

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 20-276	08/30/23	2	-	-

W.H
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

SHEET 9A OF 43

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB,
CORNER & JAMB MULLION'S HEAD/SILL CONNECTIONS *

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 3/8" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
			CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD
	JAMB OR CORNER MULLION	INTERIOR OR DOOR JAMB MULLION	A & B	C	A & B	C	A & B	C	A & B	C	A & B	C
7'-0"	1'-6"	3'-0"	78.5	67.5	117.8	101.3	157.1	135.0	180.0	168.8	180.0	180.0
	1'-9"	3'-6"	67.3	57.9	101.0	86.8	134.6	115.8	168.3	144.7	180.0	173.6
	2'-0"	4'-0"	58.9	50.7	88.4	76.0	117.8	101.3	147.3	126.6	176.7	152.0
	2'-3"	4'-6"	52.3	45.0	78.5	67.5	104.7	90.0	130.9	112.4	157.1	134.9
	2'-6"	5'-0"	47.1	40.5	70.7	60.8	94.2	81.0	117.8	101.3	141.4	121.5
	-	5'-6"	42.8	36.8	64.3	55.2	85.7	73.6	107.1	92.0	128.5	110.4
7'-6"	-	6'-0"	39.3	33.8	58.9	50.7	78.5	67.6	98.2	84.5	117.8	101.4
	1'-6"	3'-0"	73.0	62.8	109.6	94.2	146.1	125.6	180.0	157.0	180.0	180.0
	1'-9"	3'-6"	62.6	53.8	93.9	80.8	125.2	107.7	156.5	134.6	180.0	161.5
	2'-0"	4'-0"	54.8	47.1	82.2	70.7	109.6	94.3	137.0	117.8	164.3	141.4
	2'-3"	4'-6"	48.6	41.8	73.0	62.7	97.4	83.6	121.7	104.5	146.1	125.4
	2'-6"	5'-0"	43.8	37.7	65.8	56.5	87.6	75.3	109.6	94.2	131.5	113.0
8'-0"	-	5'-6"	39.5	34.0	59.8	51.0	79.7	68.0	97.6	84.9	119.5	101.9
	-	6'-0"	36.5	31.4	54.8	47.1	73.0	62.8	91.3	78.5	109.6	94.2
	1'-6"	3'-0"	68.4	58.8	103.0	88.2	137.3	117.6	171.7	147.1	180.0	176.5
	1'-9"	3'-6"	58.8	50.6	88.3	75.9	117.7	101.1	147.1	126.4	176.6	151.7
	2'-0"	4'-0"	51.5	44.3	77.3	66.4	103.0	88.6	128.8	110.7	154.4	132.9
	2'-3"	4'-6"	45.7	39.3	68.6	59.0	91.6	78.6	113.2	98.3	137.3	117.9
8'-6"	2'-6"	5'-0"	41.2	35.4	61.9	53.1	82.3	70.9	103.0	88.6	123.6	106.3
	-	5'-6"	37.1	31.9	56.2	47.9	74.9	63.8	91.7	79.8	112.3	95.7
	-	6'-0"	34.3	29.5	51.2	44.2	68.6	59.0	85.8	73.7	103.0	88.5
	1'-6"	3'-0"	64.3	55.3	96.9	82.9	129.1	110.6	161.4	138.2	180.0	165.9
	1'-9"	3'-6"	55.3	47.6	83.0	71.3	110.6	95.1	138.3	118.9	166.0	142.7
	2'-0"	4'-0"	47.9	41.2	72.7	61.8	96.8	82.4	121.0	103.0	165.1	123.6
9'-0"	2'-3"	4'-6"	43.0	37.0	64.5	55.7	86.1	74.0	106.4	92.5	129.1	110.9
	2'-6"	5'-0"	38.7	33.3	58.2	49.9	77.4	66.6	96.8	83.2	116.2	99.8
	-	5'-6"	34.9	30.0	52.8	45.0	70.4	60.0	86.2	75.0	105.6	90.0
	-	6'-0"	32.2	27.7	48.1	41.5	64.5	55.4	80.7	69.2	96.8	83.0
	1'-6"	3'-0"	60.4	51.9	91.1	77.9	121.4	103.8	151.7	129.9	180.0	155.8
	1'-9"	3'-6"	52.0	44.7	78.0	67.1	104.0	89.4	130.0	111.8	156.0	134.2
	2'-0"	4'-0"	45.0	38.7	68.3	58.1	91.0	77.4	113.7	96.8	136.3	116.1
	2'-3"	4'-6"	40.4	34.7	60.6	52.1	80.9	69.5	100.0	86.9	121.4	104.2
	2'-6"	5'-0"	36.4	31.3	54.7	47.0	72.8	62.6	91.0	78.2	109.2	93.9
	-	5'-6"	32.8	28.2	49.6	42.3	66.2	56.4	81.0	70.5	99.3	84.6
	-	6'-0"	30.3	26.1	45.2	39.1	60.6	52.1	75.9	65.1	91.0	70.2

* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

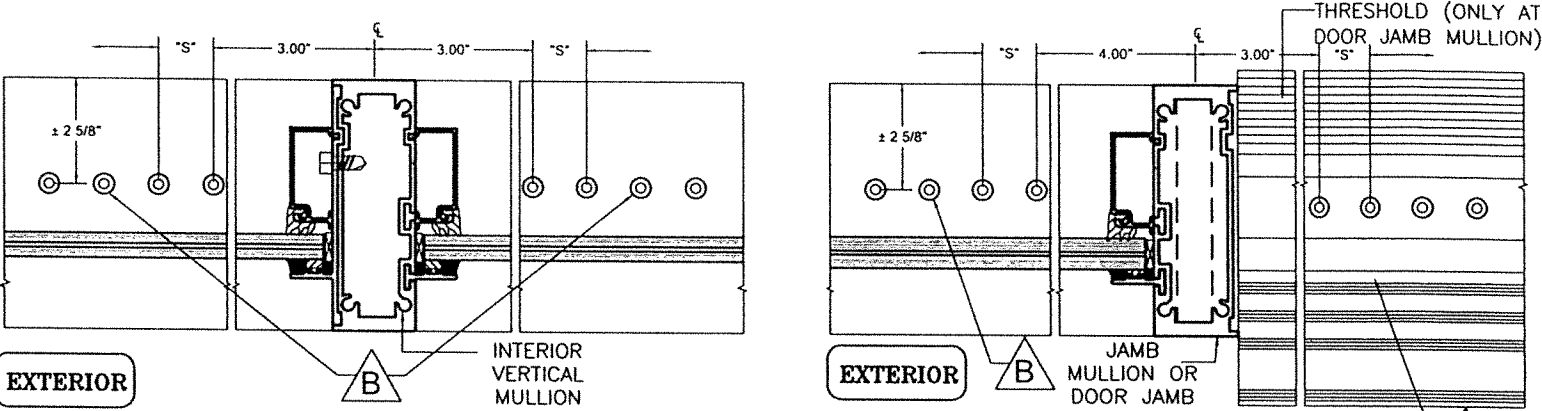
OPTIONAL SYSTEM #1

FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min.
EMBEDMENT INTO POURED CONCRETE (Min. f'c = 2.730 ksi), W/ S = 3" MIN. SPACING &
2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH
MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX
W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. (Fy = 33 Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY)
ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT
INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

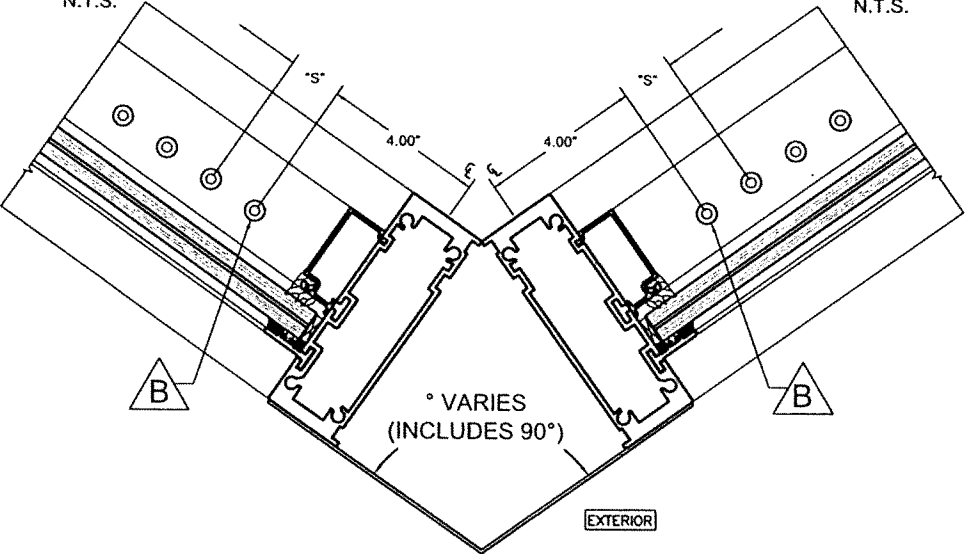
SILL OR HEAD CONNECTION DETAIL @
INTERIOR VERTICAL MULLION

(PLAN VIEW)
N.T.S.

n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

SILL OR HEAD CONNECTION DETAIL @
JAMB OR DOOR JAMB MULLION (SEE SHEET 21)

(PLAN VIEW)
N.T.S.

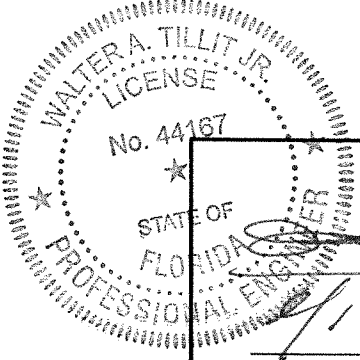


n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT CORNER, EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
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
e-mail: tilteco@aol.com
CA-0006719

WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



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:

08/30/2023
DATE

23-204
DRAWING No

SHEET 10 of 43

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. f_c = 2,730 ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. (F_y = 33 Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY) ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

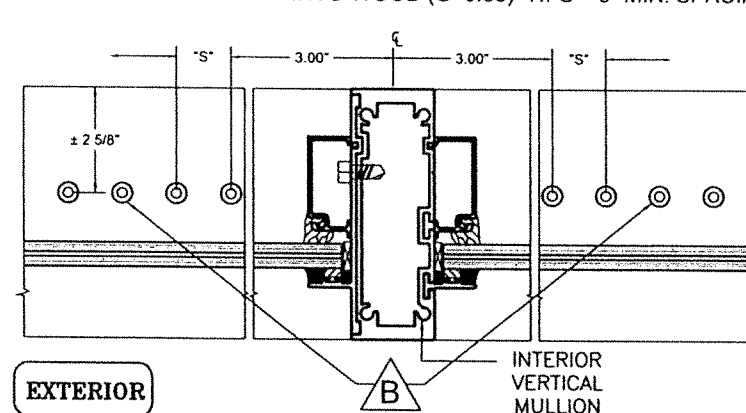
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB, CORNER & JAMB MULLION'S HEAD/SILL CONNECTIONS *

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)	MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 3/8" MAX. SHIM SPACE									
		n = 4		n = 6		n = 8		n = 10		n = 12	
		JAMB OR CORNER MULLION	INTERIOR OR DOOR JAMB MULLION	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C
9'-6"	1'-6"	3'-0"	57.4	49.5	86.5	74.3	115.3	99.1	144.1	123.8	173.6
	1'-9"	3'-6"	49.4	42.5	74.1	63.7	98.8	85.0	123.5	106.2	148.2
	2'-0"	4'-0"	42.8	36.8	64.9	55.2	86.5	73.6	108.0	92.0	129.5
	2'-3"	4'-6"	38.4	33.0	57.6	49.5	76.9	66.0	95.0	82.6	115.3
	2'-6"	5'-0"	34.6	29.8	52.0	44.6	69.2	59.5	86.5	74.4	103.7
	-	5'-6"	31.1	26.7	47.1	40.0	62.9	53.4	77.0	66.8	94.3
10'-0"	-	6'-0"	28.8	24.8	42.9	37.2	57.6	49.5	72.1	61.9	86.5
	1'-6"	3'-0"	54.5	46.9	82.2	70.3	109.5	93.7	136.9	117.2	164.9
	1'-9"	3'-6"	46.9	40.3	70.4	60.5	93.9	80.7	117.3	100.8	140.8
	2'-0"	4'-0"	40.7	35.0	61.7	52.5	82.8	70.0	102.6	87.5	123.0
	2'-3"	4'-6"	36.5	31.4	54.7	47.1	73.0	62.8	90.3	78.5	109.5
	2'-6"	5'-0"	32.9	28.3	49.4	42.4	65.7	56.6	82.2	70.7	98.5
10'-6"	-	5'-6"	29.5	25.4	44.7	38.1	59.8	50.7	73.2	63.4	89.6
	-	6'-0"	27.4	23.6	40.8	35.3	54.7	47.1	68.5	58.9	82.2
	1'-6"	3'-0"	51.9	44.6	78.1	67.0	104.0	89.3	130.0	111.6	156.7
	1'-9"	3'-6"	44.6	38.4	66.9	57.5	89.2	76.7	111.4	95.9	133.8
	2'-0"	4'-0"	38.7	33.3	58.6	49.9	78.1	66.6	97.5	83.2	116.9
	2'-3"	4'-6"	34.7	29.8	52.0	44.8	69.4	59.7	85.8	74.6	95.5
11'-0"	2'-6"	5'-0"	31.3	26.9	46.9	40.4	62.4	53.8	78.1	67.3	93.6
	-	5'-6"	28.0	24.1	42.5	36.1	56.8	48.2	69.5	60.2	85.1
	-	6'-0"	26.0	22.4	38.8	33.5	52.0	44.7	65.1	55.9	78.1
	1'-6"	3'-0"	49.5	42.6	74.2	63.9	98.8	85.1	123.5	106.4	148.9
	1'-9"	3'-6"	42.4	36.4	63.6	54.7	84.7	72.9	105.8	91.2	127.1
	2'-0"	4'-0"	36.8	31.6	55.7	47.5	74.2	63.3	92.6	79.1	111.1
11'-6"	2'-3"	4'-6"	33.0	28.4	49.4	42.6	65.9	56.8	81.5	71.0	90.7
	2'-6"	5'-0"	29.7	25.5	44.6	38.3	59.3	51.1	74.2	63.9	88.9
	-	5'-6"	26.6	22.9	40.4	34.3	54.0	45.8	66.0	57.2	80.8
	-	6'-0"	24.7	21.2	36.9	31.9	49.4	42.5	61.8	53.1	74.2
	1'-6"	3'-0"	47.5	40.9	71.2	61.3	94.8	81.7	118.6	102.1	142.9
	1'-9"	3'-6"	40.7	35.0	61.0	52.5	81.3	70.1	101.6	87.5	122.0
12'-0"	2'-0"	4'-0"	35.3	30.4	53.4	45.5	71.2	60.7	88.9	75.9	106.7
	2'-3"	4'-6"	31.7	27.3	47.4	40.9	63.3	54.5	78.2	68.1	97.1
	2'-6"	5'-0"	28.5	24.5	42.8	36.8	56.9	49.0	71.2	61.3	85.3
	-	5'-6"	25.5	21.9	38.8	32.9	51.8	43.9	62.4	54.8	77.4
	-	6'-0"	23.7	20.4	35.4	30.6	47.4	40.8	59.3	51.1	71.2
	1'-6"	3'-0"	45.6	39.2	68.4	58.8	91.0	78.4	103.9	98.0	137.2
12'-6"	1'-9"	3'-6"	39.1	33.6	58.6	50.4	78.0	67.3	97.5	84.1	117.2
	2'-0"	4'-0"	33.9	29.2	51.3	43.7	68.4	58.3	85.3	72.9	102.4
	2'-3"	4'-6"	30.4	26.1	45.5	39.2	60.8	52.2	75.1	65.4	93.6
	2'-6"	5'-0"	27.4	23.6	41.1	35.3	54.6	47.1	68.4	58.9	81.9
	-	5'-6"	24.5	21.1	37.2	31.6	49.7	42.1	59.9	52.7	74.3
	-	6'-0"	22.8	19.6	34.0	29.4	45.5	39.2	56.9	49.0	68.4

* MAX. POSITIVE A.S.D DESIGN PRESSURE RATING FOR ANY CASE IS 90.0 psf

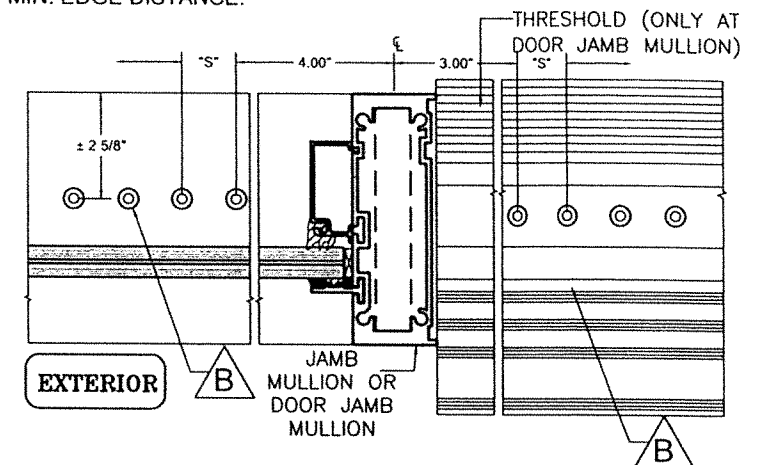
OPTIONAL SYSTEM #1



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

SILL OR HEAD CONNECTION DETAIL @ INTERIOR VERTICAL MULLION

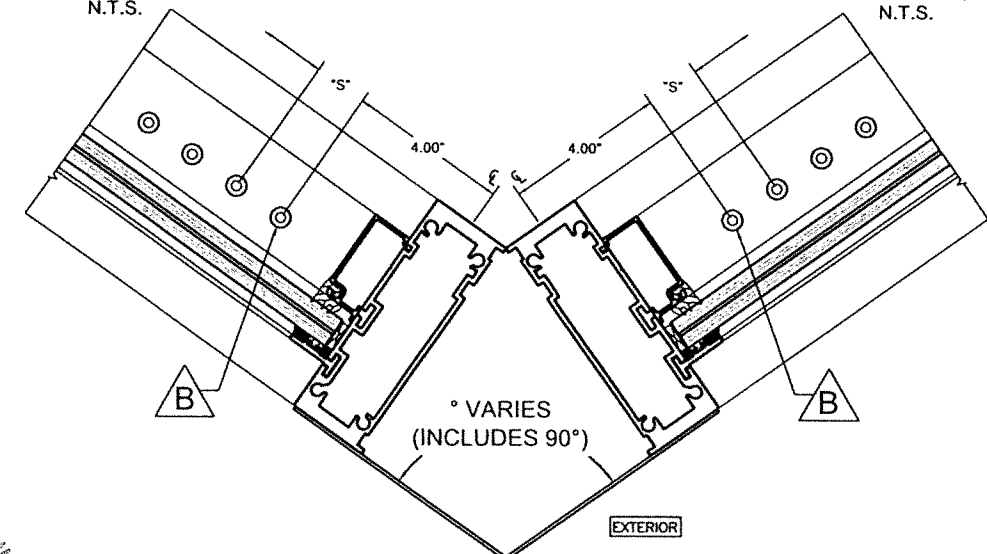
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

SILL OR HEAD CONNECTION DETAIL @ JAMB OR DOOR JAMB MULLION (SEE SHEET 21)

(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT CORNER, EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
N.T.S.

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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS
W.H
DRAWN BY:
08/30/2023
DATE
23-204
DRAWING No
SHEET 10A OF 43

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

MAX. ANCHOR SPACING FOR ATTACHED JAMB MULLION "A" TO EXISTING STRUCTURE GIVEN A.S.D DESIGN WIND LOAD AND EFFECTIVE SPACING "b" TO BE USED WHEN FREE STANDING MULLION "A" (NOT ATTACHED TO STRUCTURE) CANNOT MEET THE REQUIRED SPAN "L" FOR A GIVEN A.S.D DESIGN WIND LOAD *

MAXIMUM ASD DESIGN PRESSURE RATING (psf) * *	EFFECTIVE SPACING FOR "A" * * * "b" (Ft-in)	MAX. ANCHOR SPACING FOR			
		1/4" SHIM SPACE		3/8" SHIM SPACE	
		CONCRETE, CONCRETE BLOCK, STEEL OR ALUMINUM	WOOD	CONCRETE, CONCRETE BLOCK, STEEL OR ALUMINUM	WOOD
47.8 or LESS	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	15" O.C	15" O.C	15" O.C
50.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	15" O.C	15" O.C	15" O.C
60.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	12" O.C	15" O.C	12" O.C
70.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	12" O.C	15" O.C	12" O.C
80.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-6"	15" O.C	10" O.C	12" O.C	10" O.C
90.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-6"	14" O.C	9" O.C	10" O.C	9" O.C
100.0	1'-6"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-0"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-6"	12" O.C	8" O.C	9" O.C	8" O.C
110.0	1'-6"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-0"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-6"	12" O.C	8" O.C	9" O.C	8" O.C
120.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-6"	10" O.C	7" O.C	8" O.C	7" O.C
130.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
140.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
150.0	1'-6"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-0"	10" O.C	7" O.C	8" O.C	7" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
160.0	1'-6"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-0"	10" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	8" O.C	5" O.C	6" O.C	5" O.C
170.0	1'-6"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-0"	10" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	8" O.C	5" O.C	6" O.C	5" O.C
180.0	1'-6"	7" O.C	7" O.C	7" O.C	7" O.C
	2'-0"	7" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	6" O.C	4" O.C	5" O.C	4" O.C

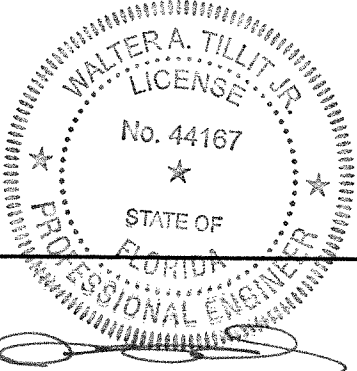


FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

- A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. f'c = 2.730 ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE OR WITH 1 1/4" MIN. EMBEDMENT INTO ASTM C-90 CONCRETE BLOCK WITH S= 6" MIN. SPACING AND 2 1/2" MIN. EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.
- B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. (Fy = 33 Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY) ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.
- C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.

- * SEE SHEETS 5 & 17 FOR ANCHOR LOCATION.
- ** MAX. POSITIVE DESIGN PRESSURE RATING IS 90.0 psf FOR ALL CASES.
- *** SEE SHEET 7 FOR DEFINITION OF EFFECTIVE SPACING "b" FOR ATTACHED JAMB MULLION.

OPTIONAL SYSTEM #1



P.E. SEAL/SIGNATURE/DATE

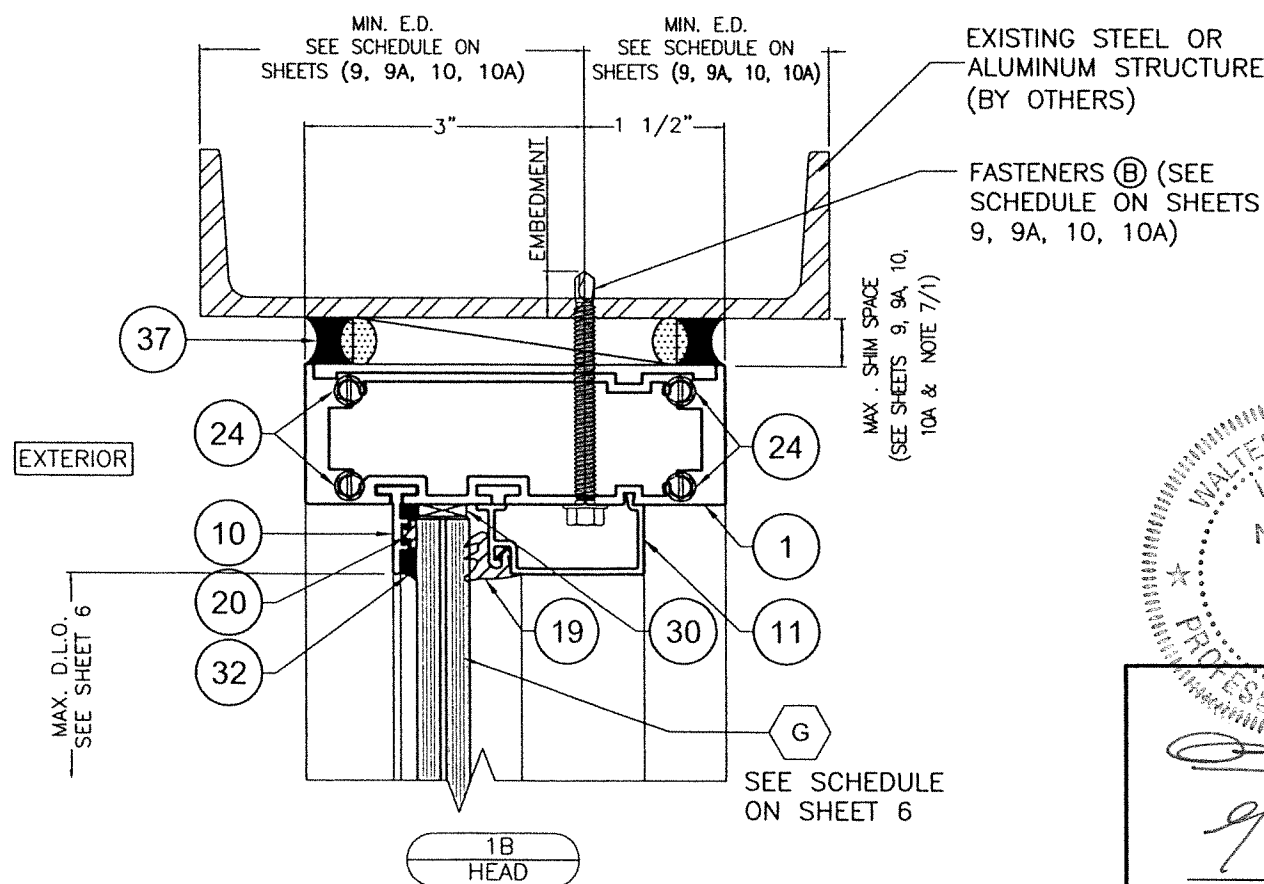
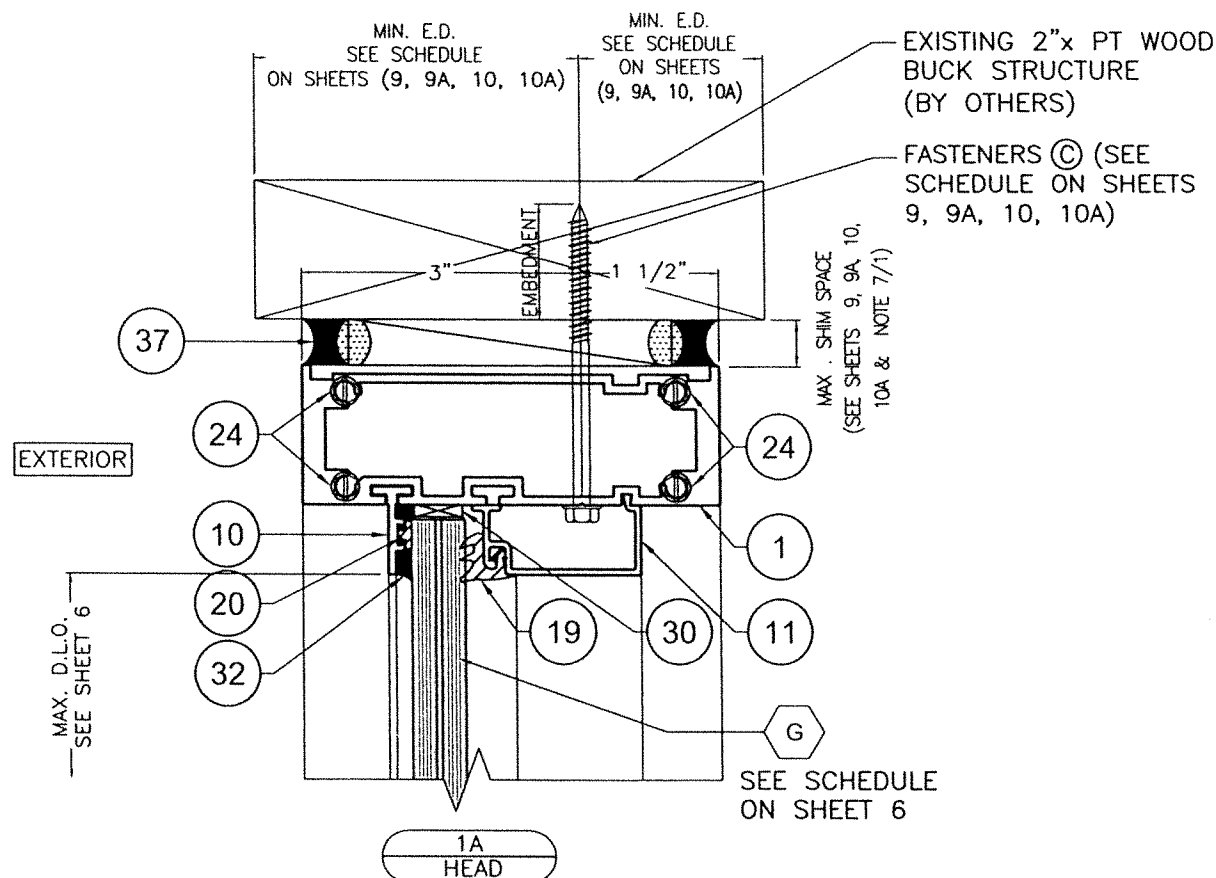
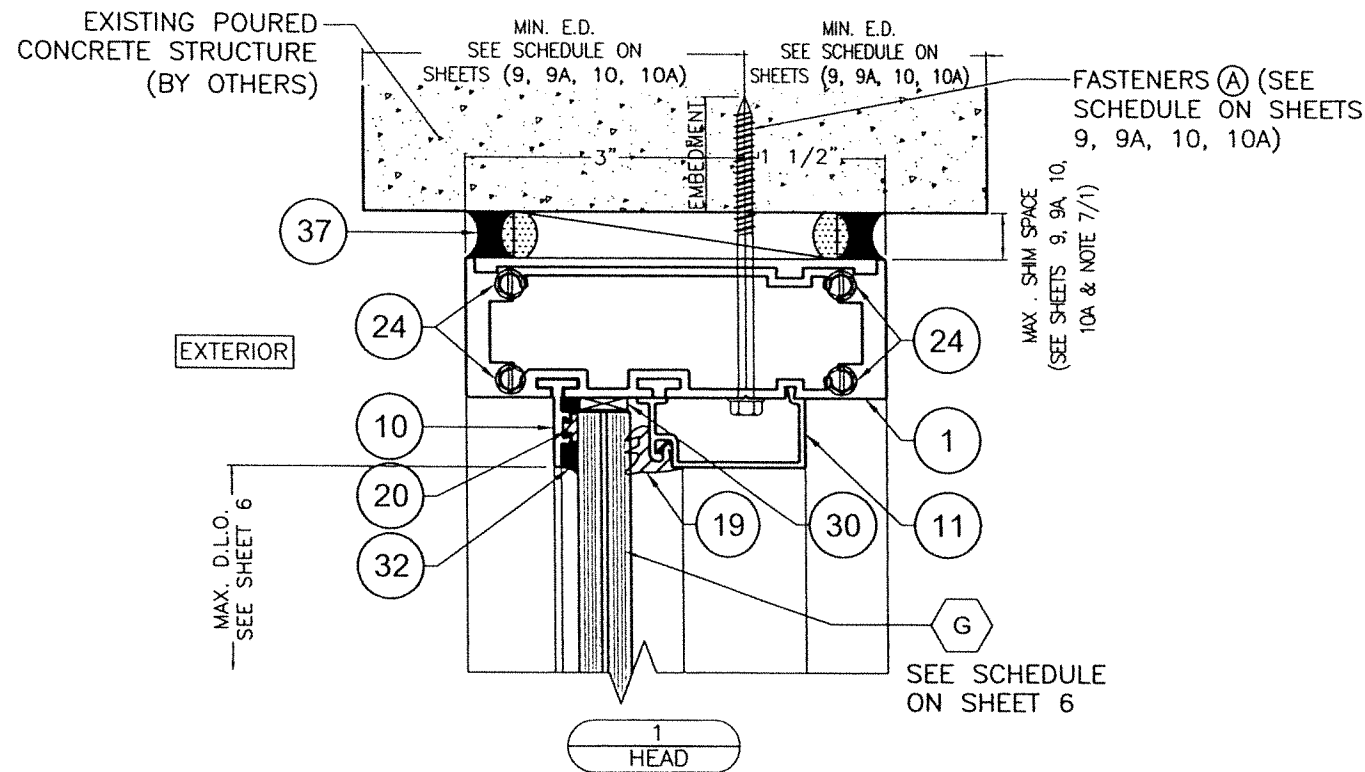
© 2023 TILTECO INC.

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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

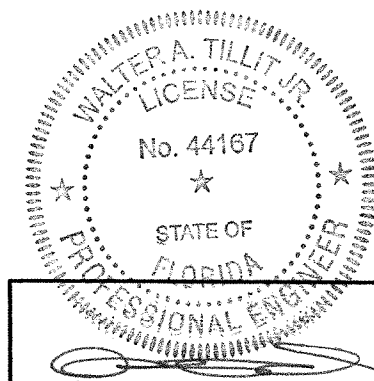
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS			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			08/30/2023 DATE		
			23-204 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

HEAD CONNECTION DETAILS W/ LAMINATED GLASS



OPTIONAL SYSTEM #1



9/19/2023

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
e-mail: tilteco@aol.com
CA-0006719

WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



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:

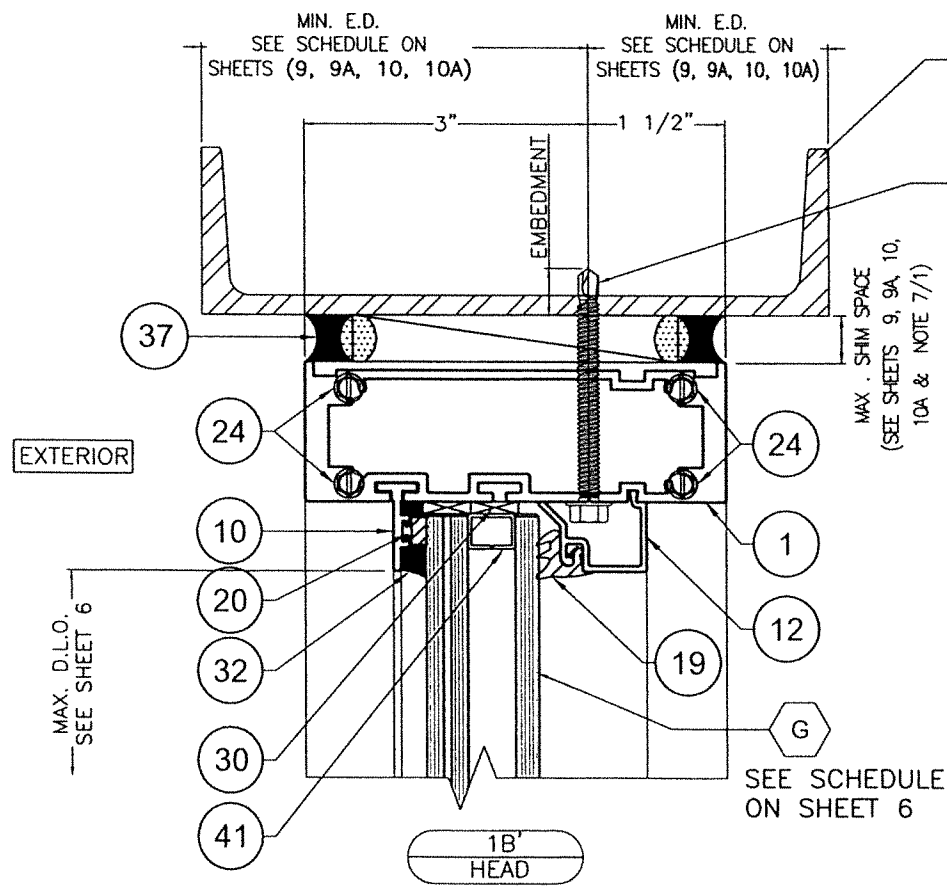
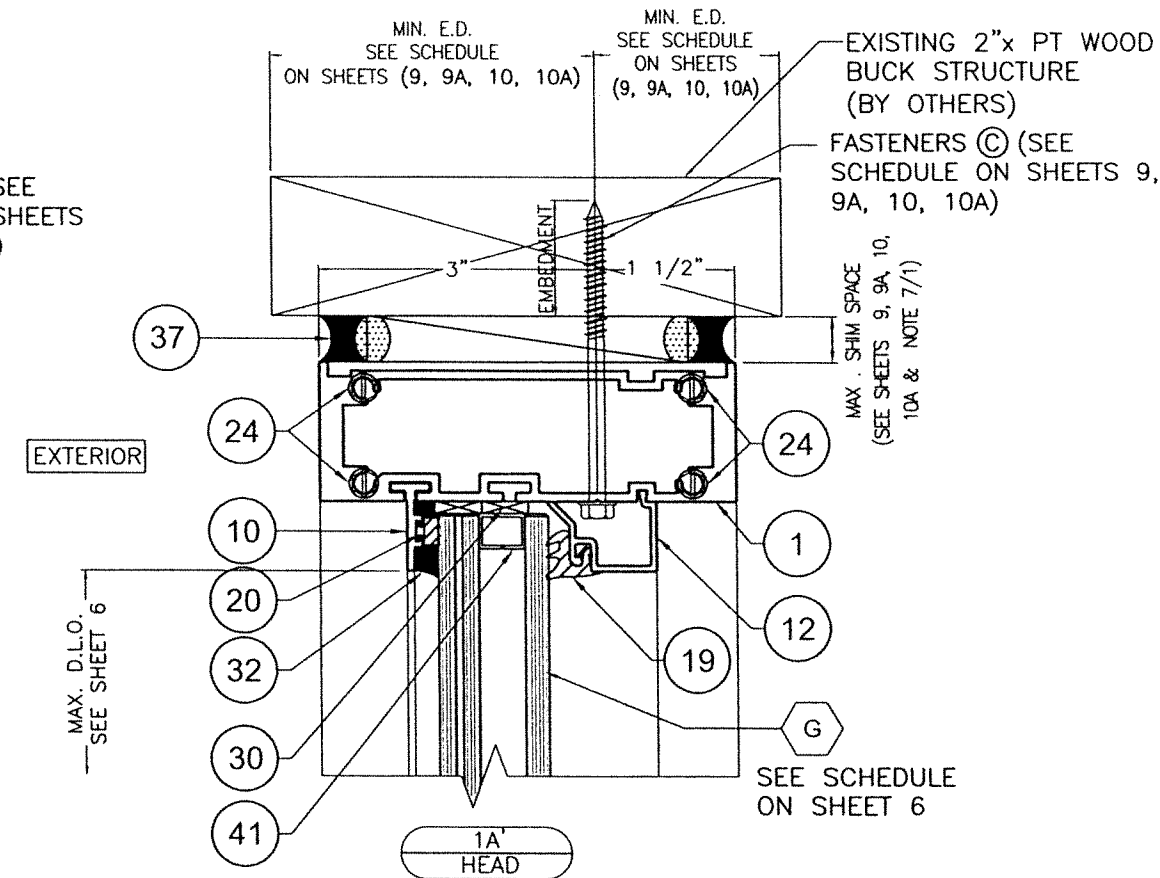
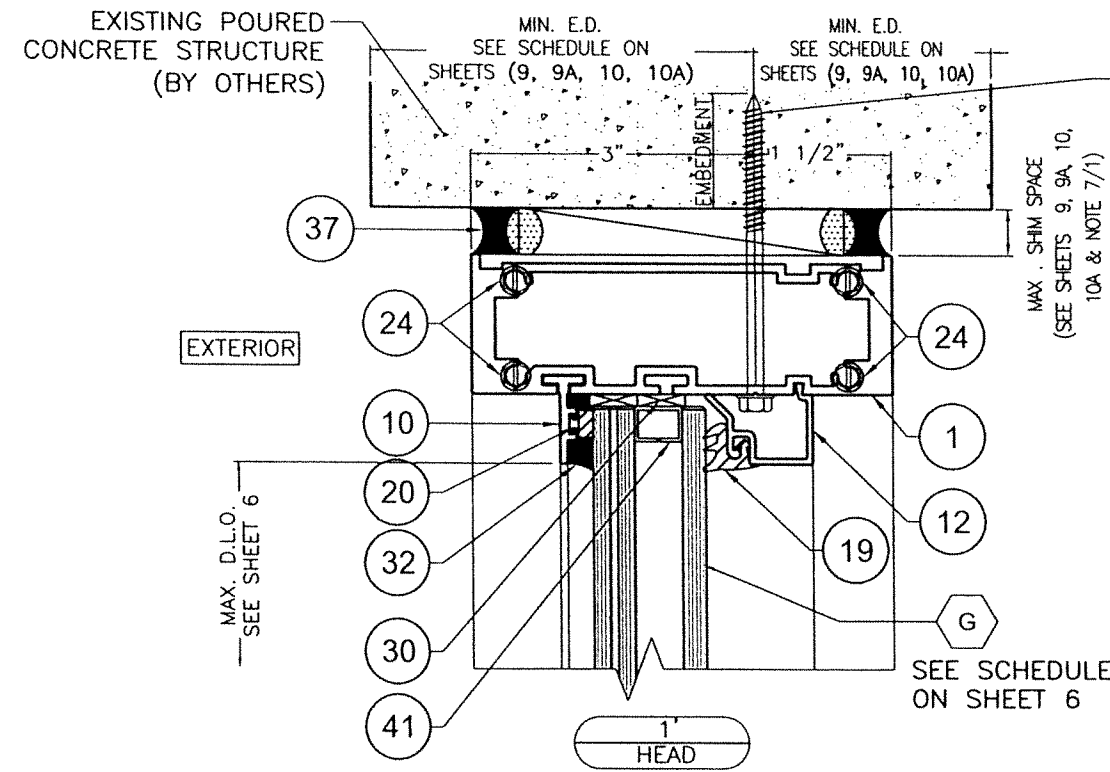
08/30/2023
DATE

23-204
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

SHEET 12 OF 43

HEAD CONNECTION DETAILS W/ INSULATED GLASS



OPTIONAL SYSTEM #1

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
8/12/2023
P.E. SEAL/SIGNATURE/DATE

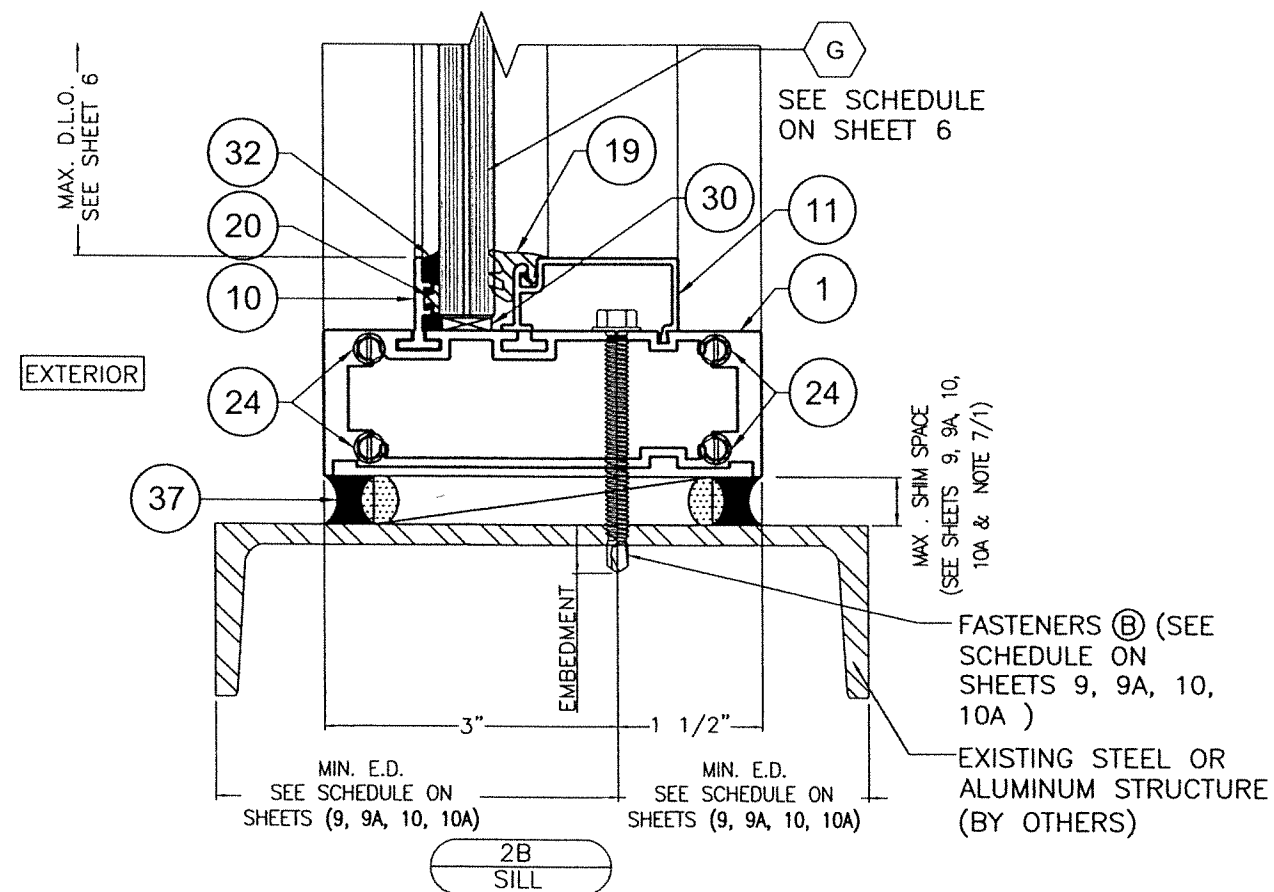
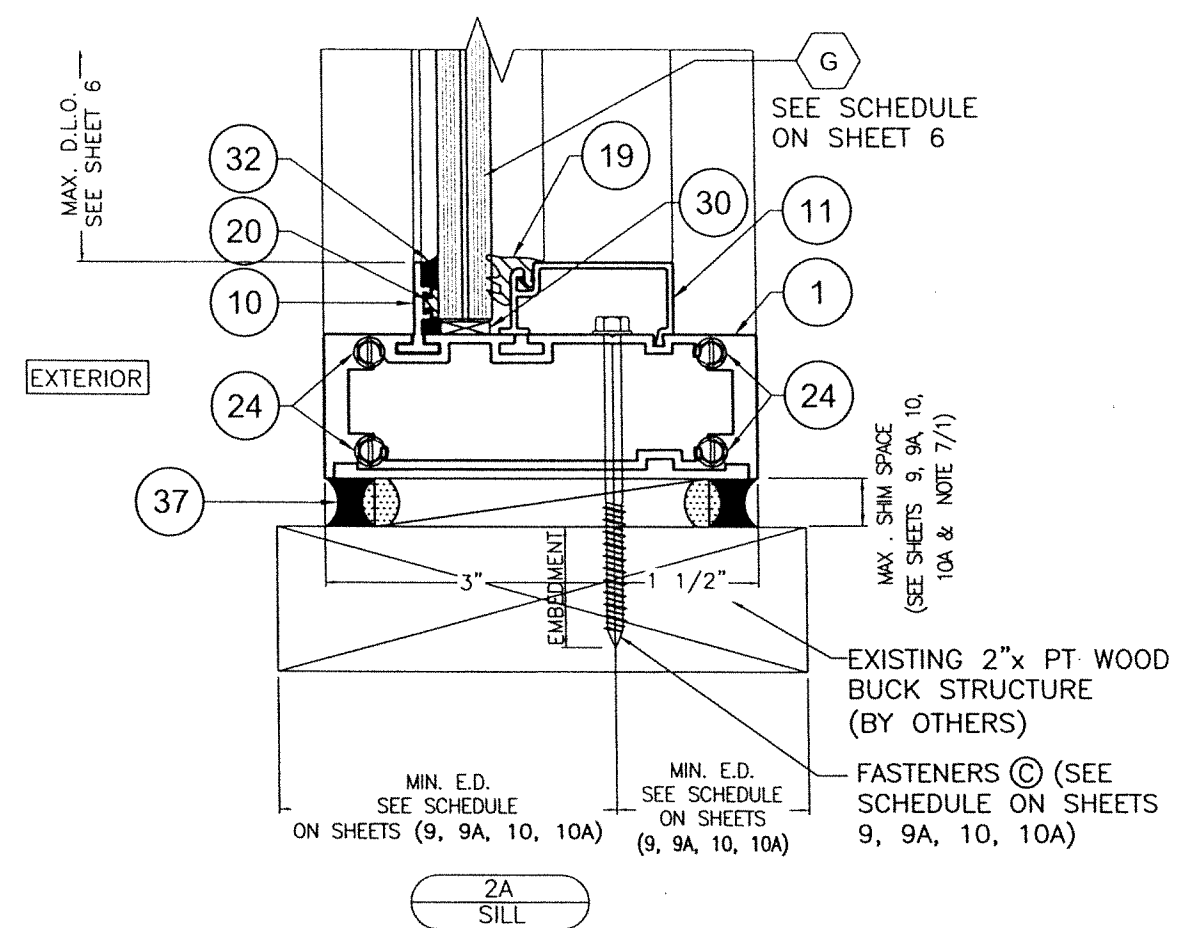
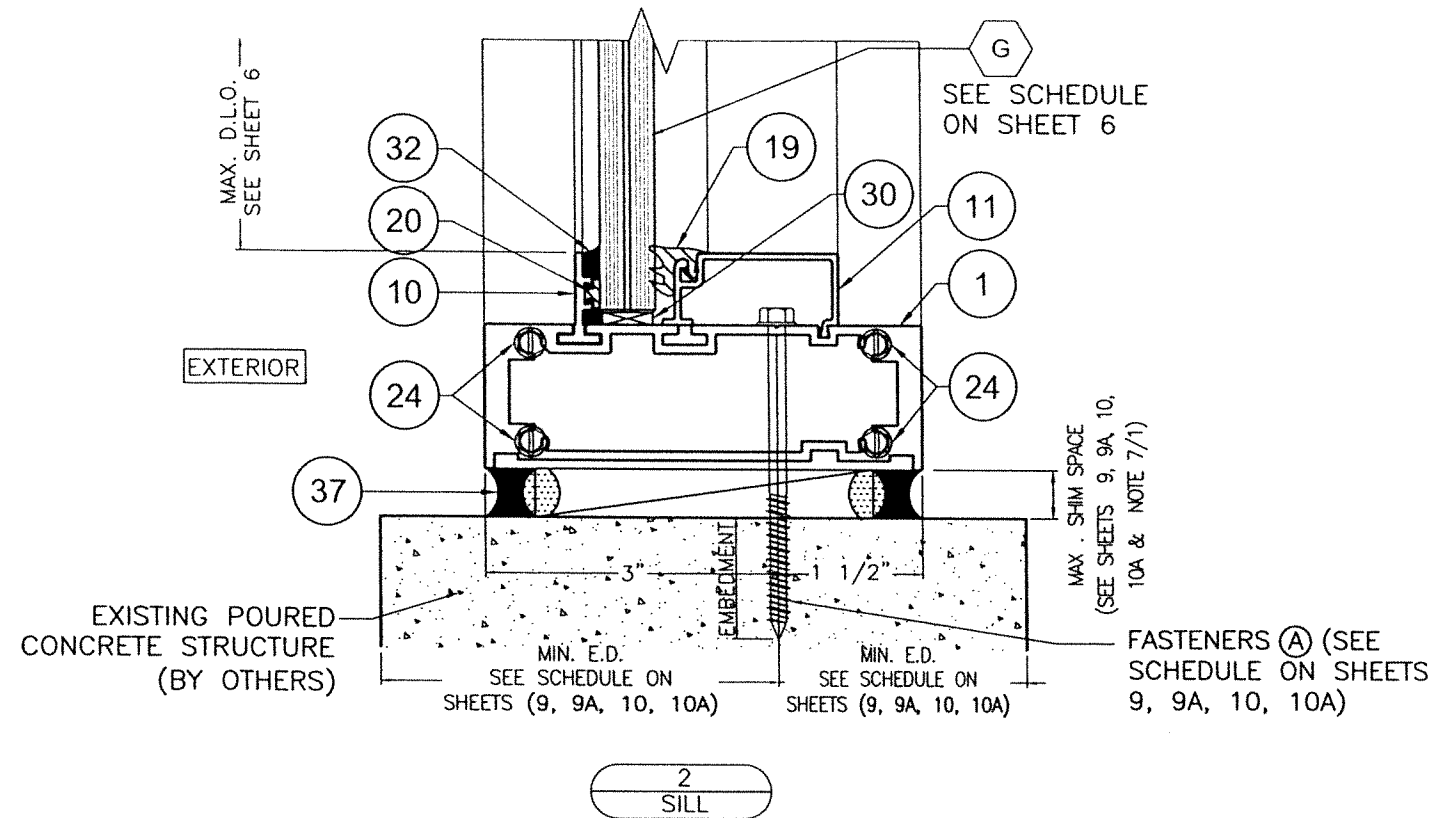
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

© 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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

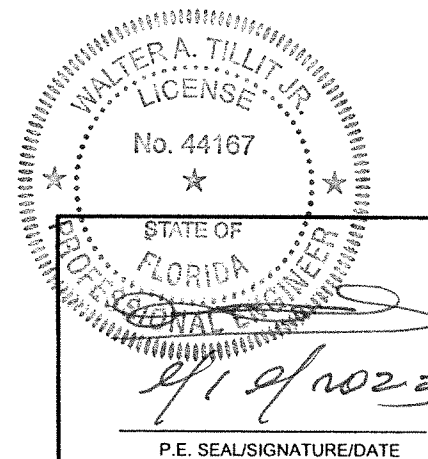
HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS				W.H DRAWN BY:	
 290 WEST 78 ROAD HALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				08/30/2023 DATE	
				23-204 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

SHEET 13 OF 43

SILL CONNECTION DETAILS W/ LAMINATED GLASS



OPTIONAL SYSTEM #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
 e-mail: tilteco@aol.com
 CA-0008719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. # 44167

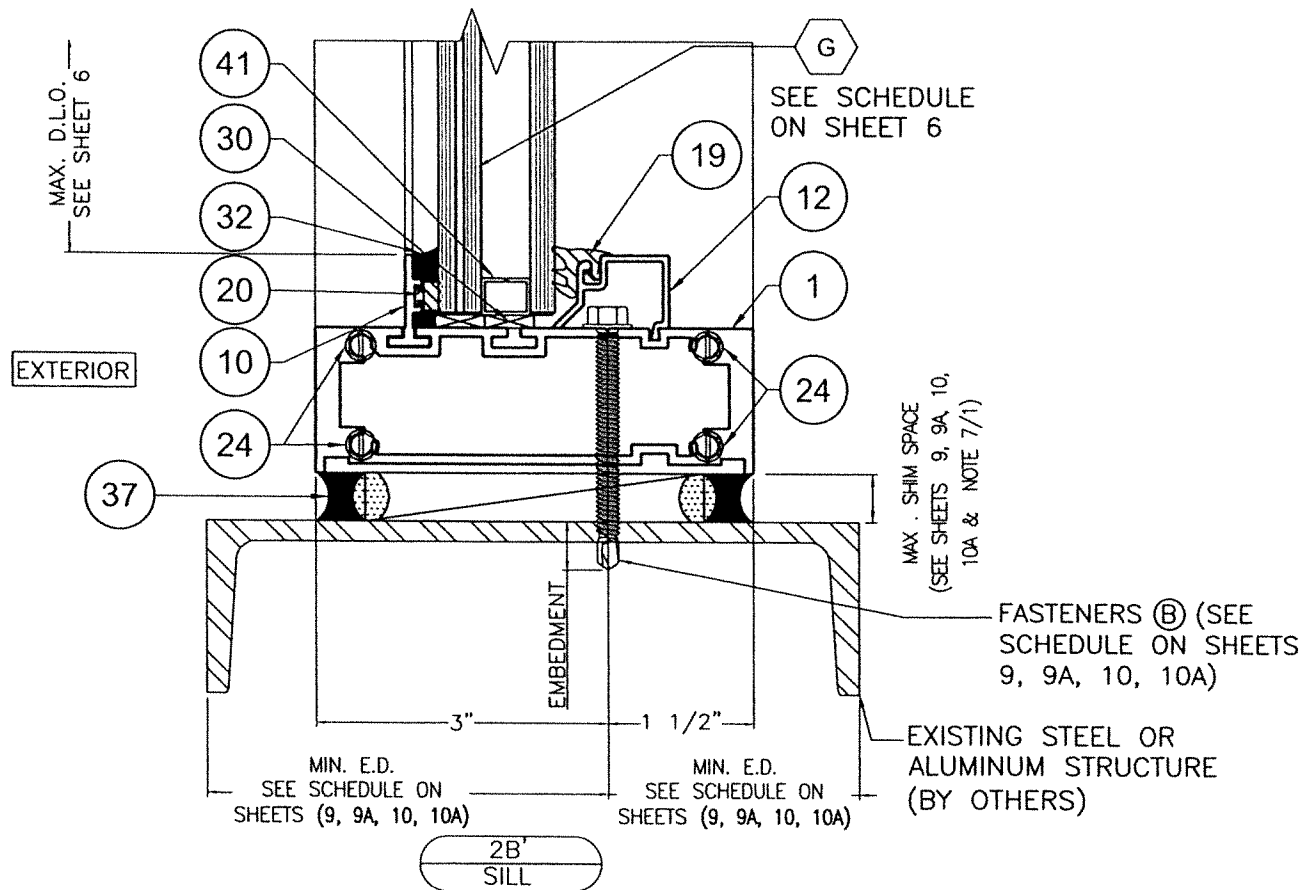
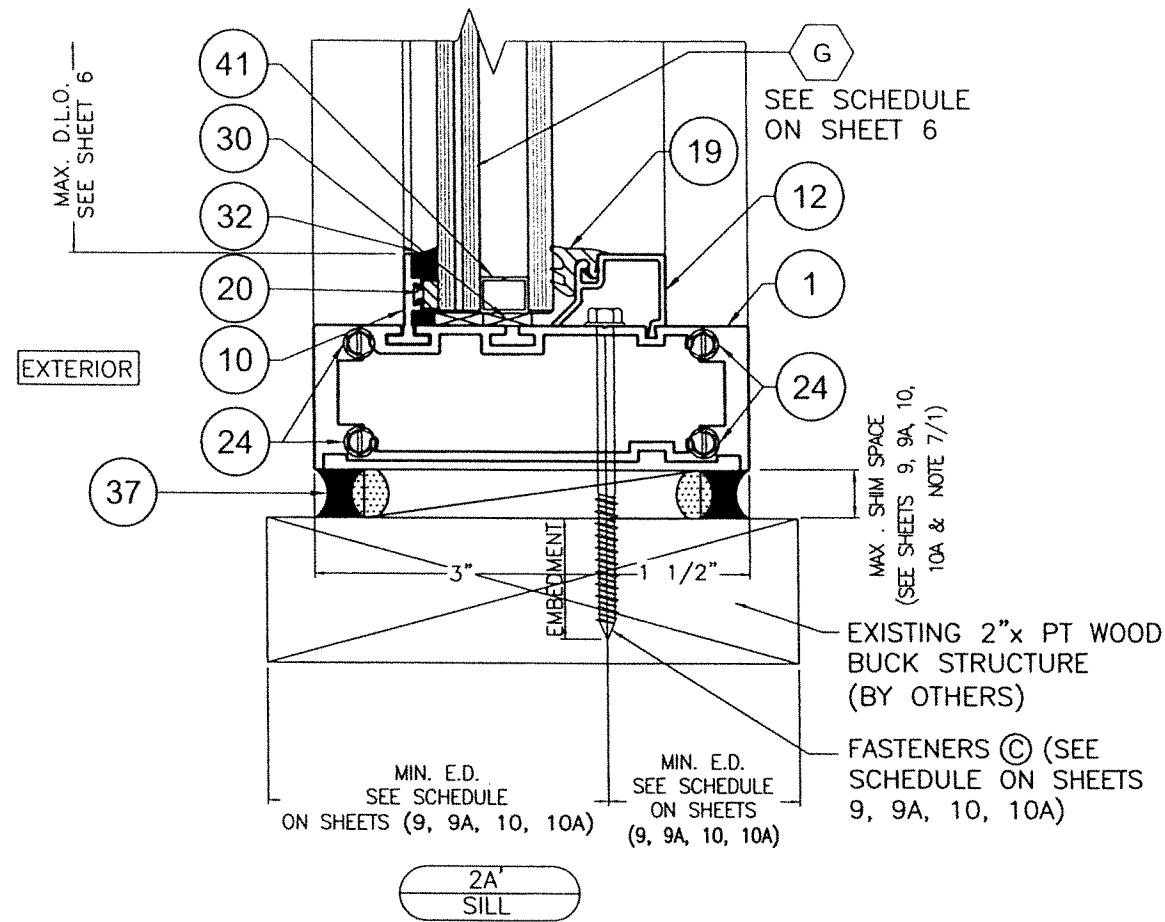
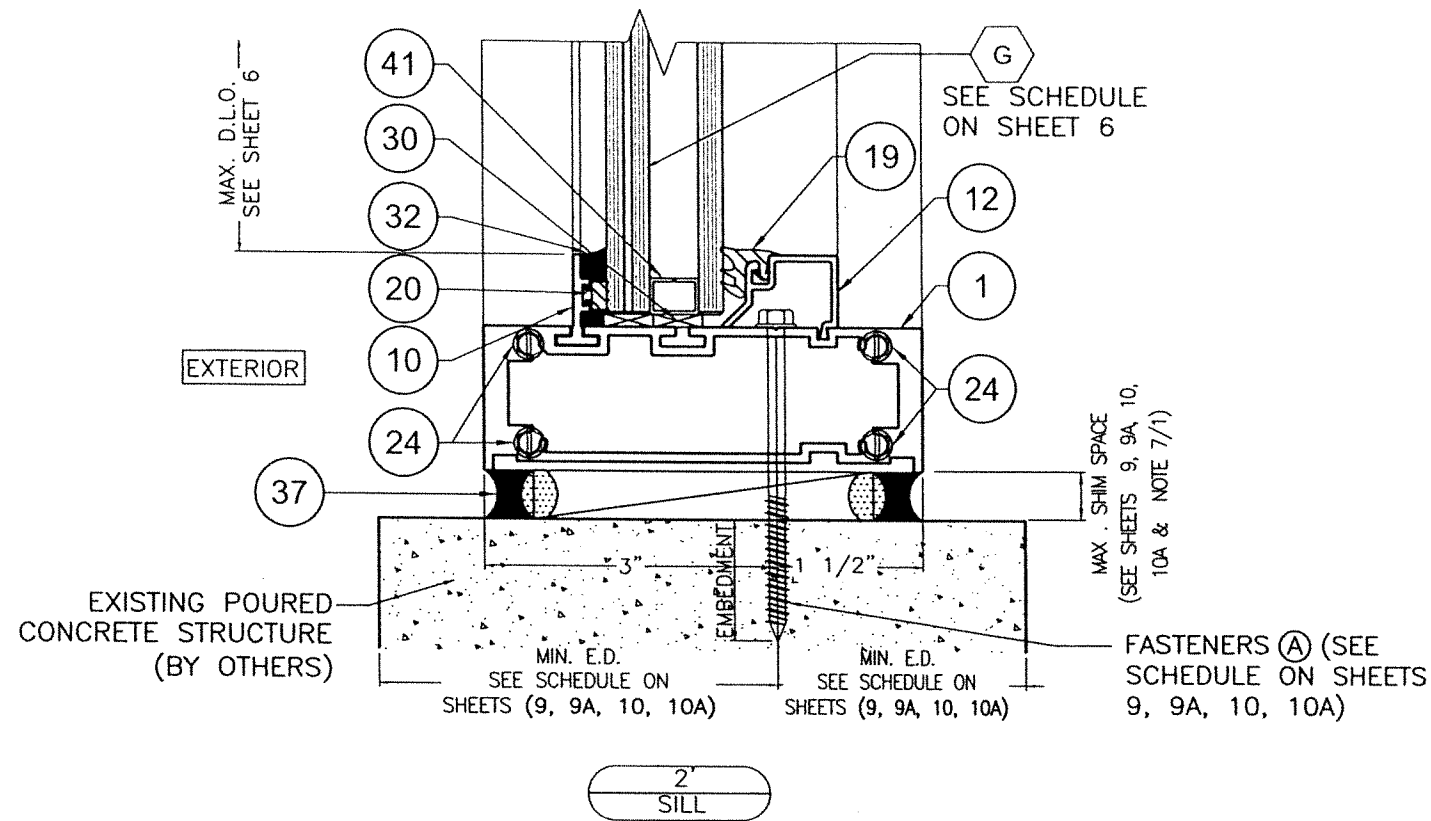
HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/
 LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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

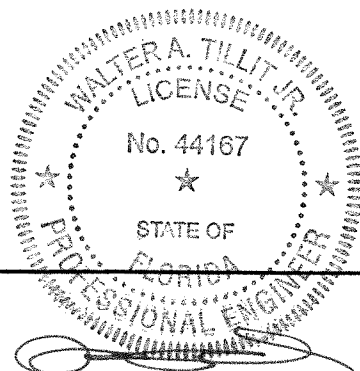
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

W.H
 DRAWN BY:
 08/30/2023
 DATE
23-204
 DRAWING No

SILL CONNECTION DETAILS W/ INSULATED GLASS



OPTIONAL SYSTEM #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
e-mail: tilteco@aol.com
CA-0006719

WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



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:

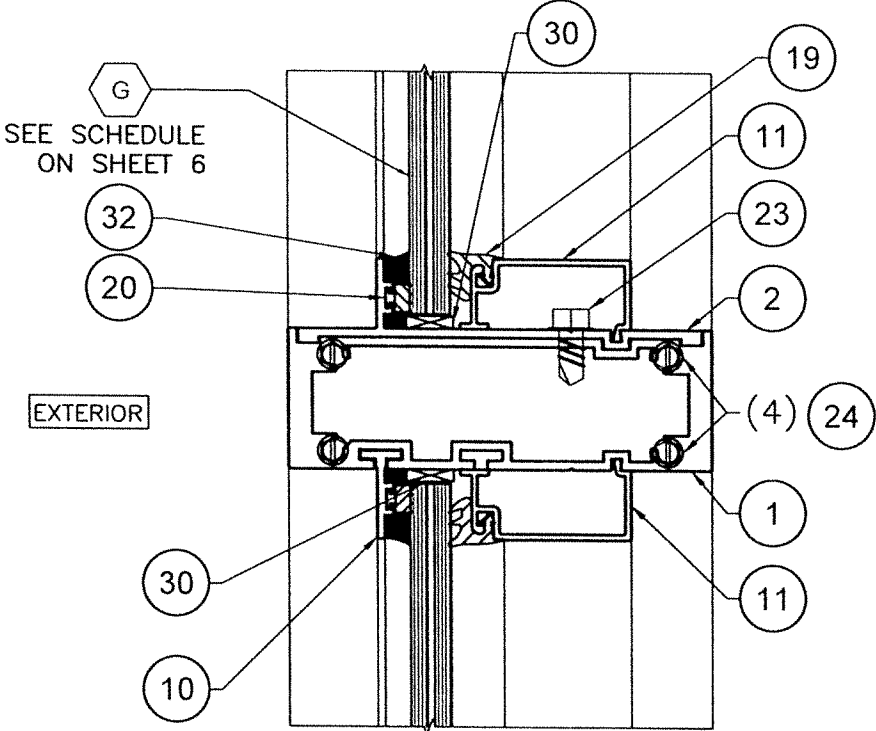
08/30/2023
DATE

23-204
DRAWING No

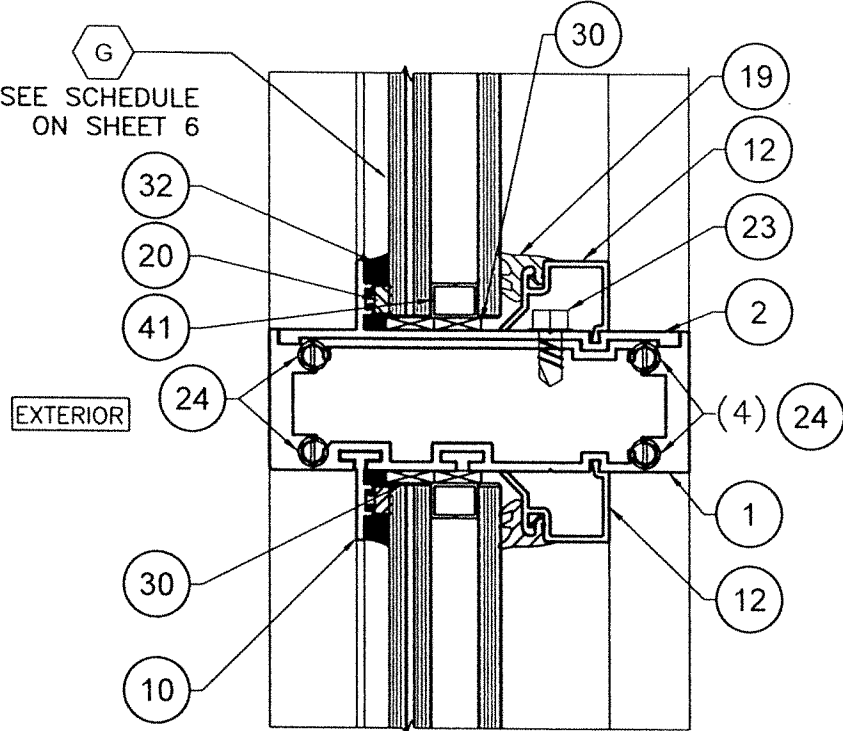
SHEET 15 OF 43

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

HORIZONTAL MULLION DETAILS

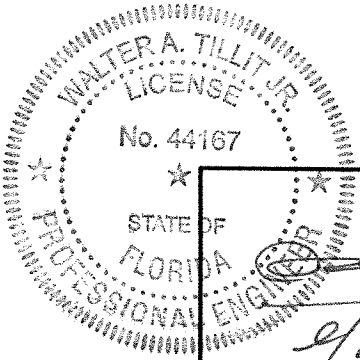


3
HORIZONTAL MULLION
W/ LAMINATED GLASS



3'
HORIZONTAL MULLION
W/ INSULATED GLASS

OPTIONAL SYSTEM #1



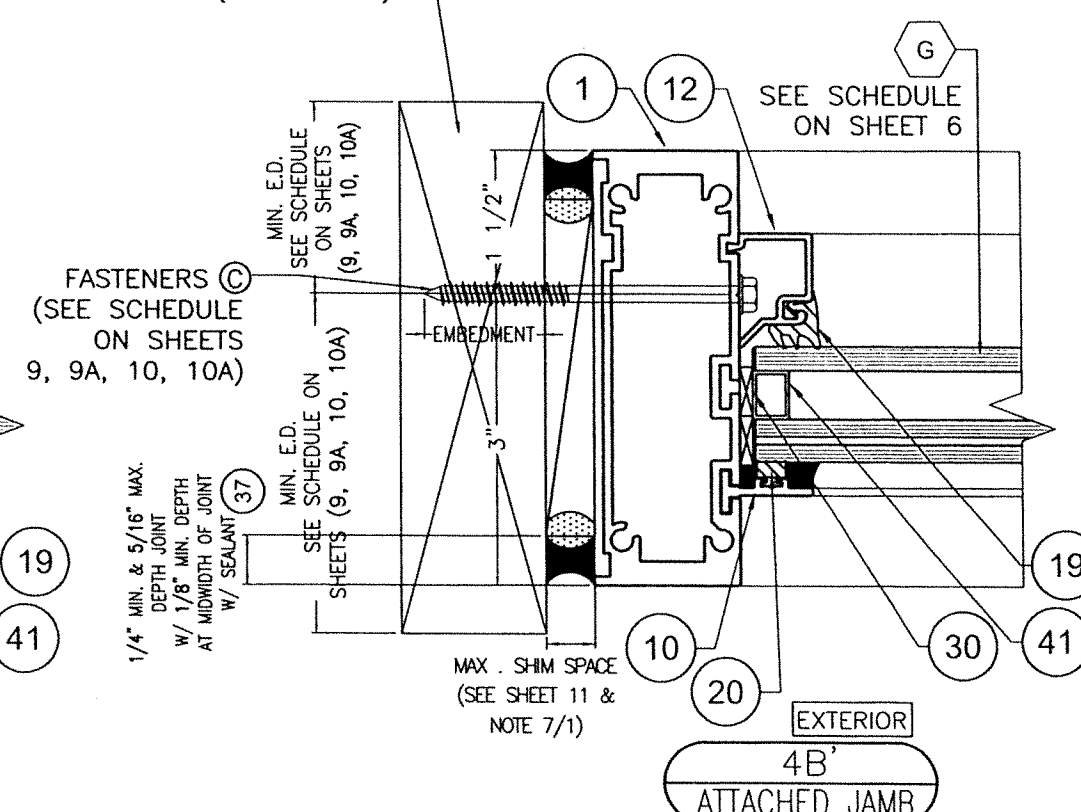
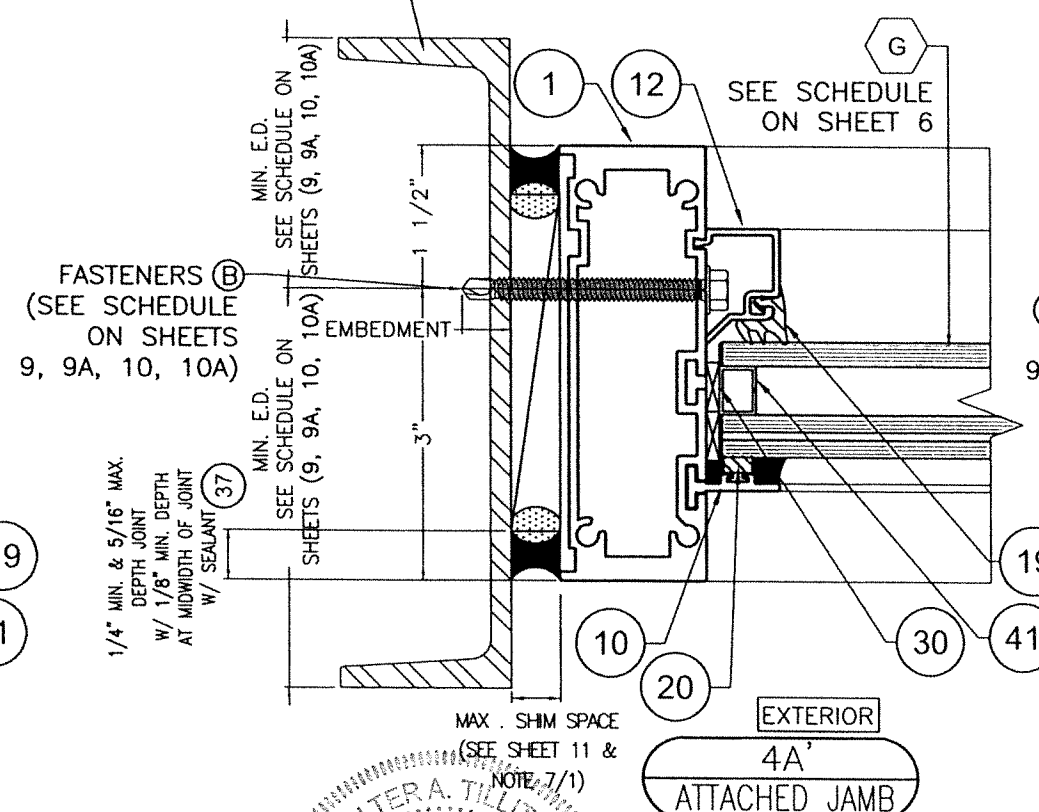
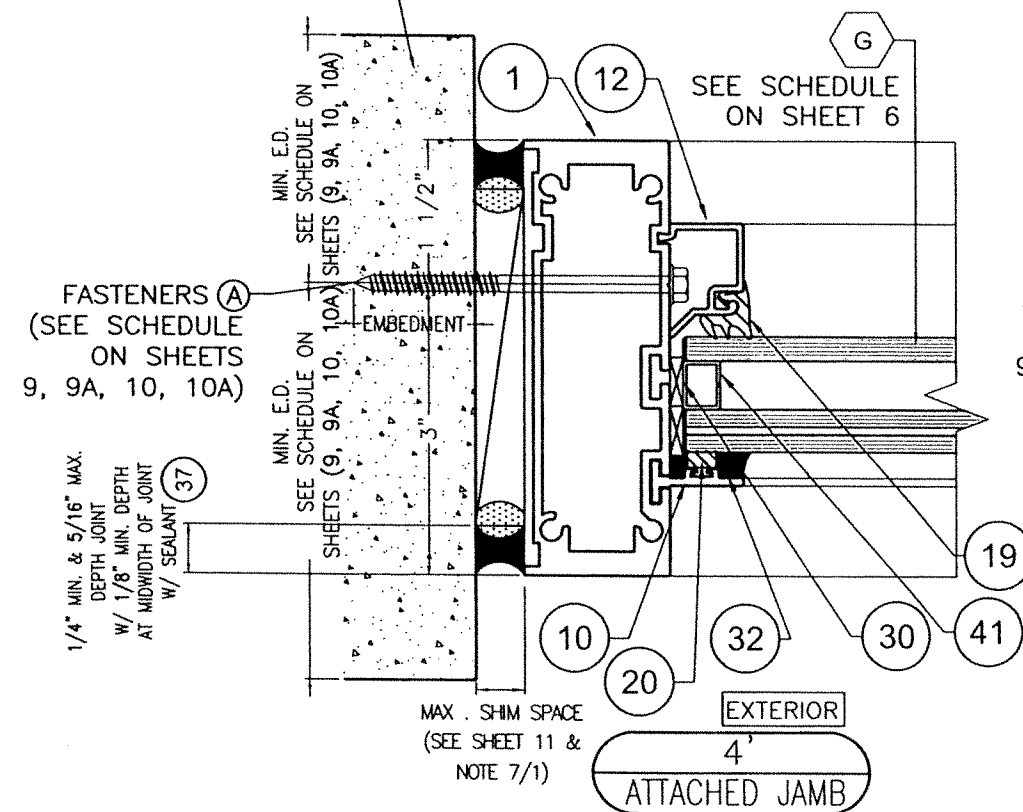
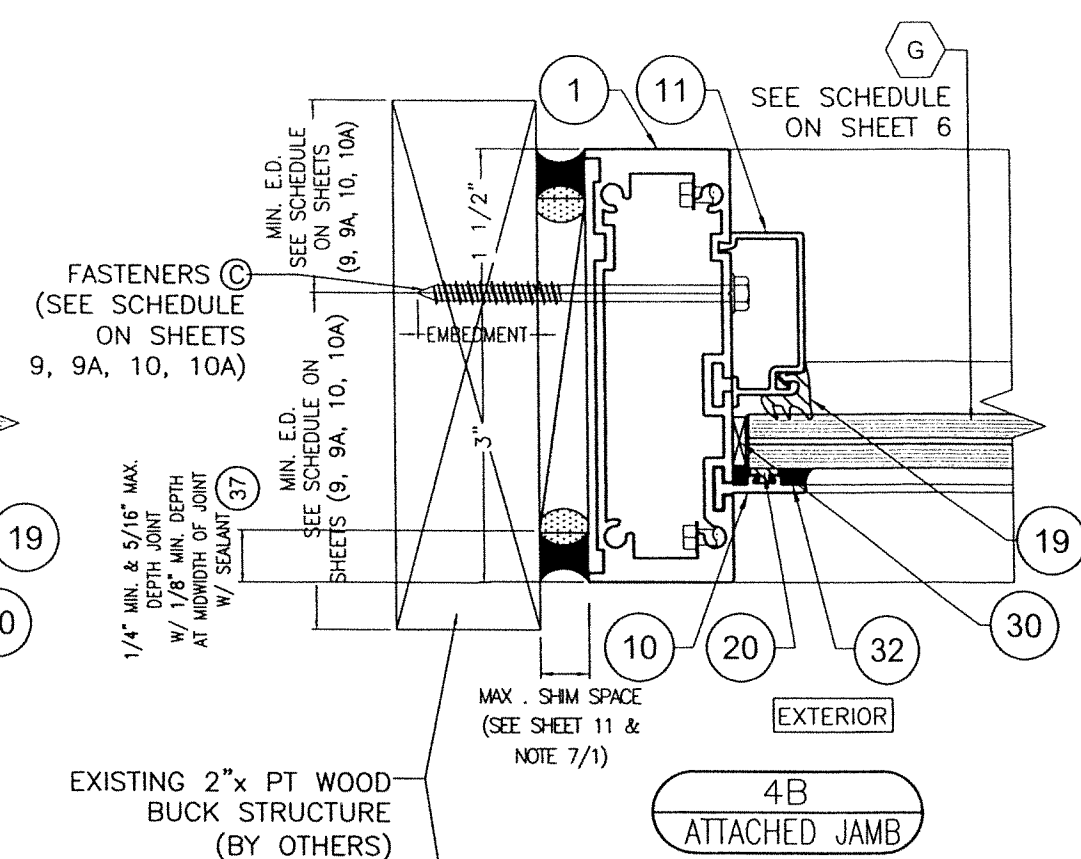
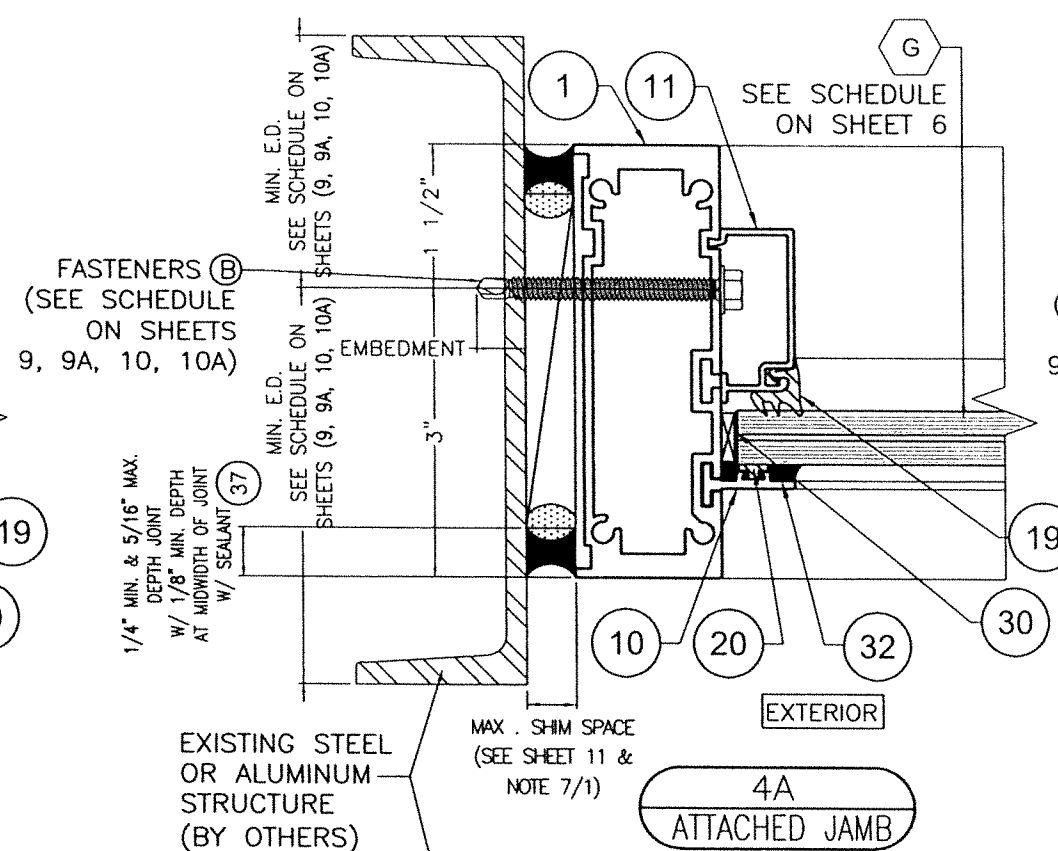
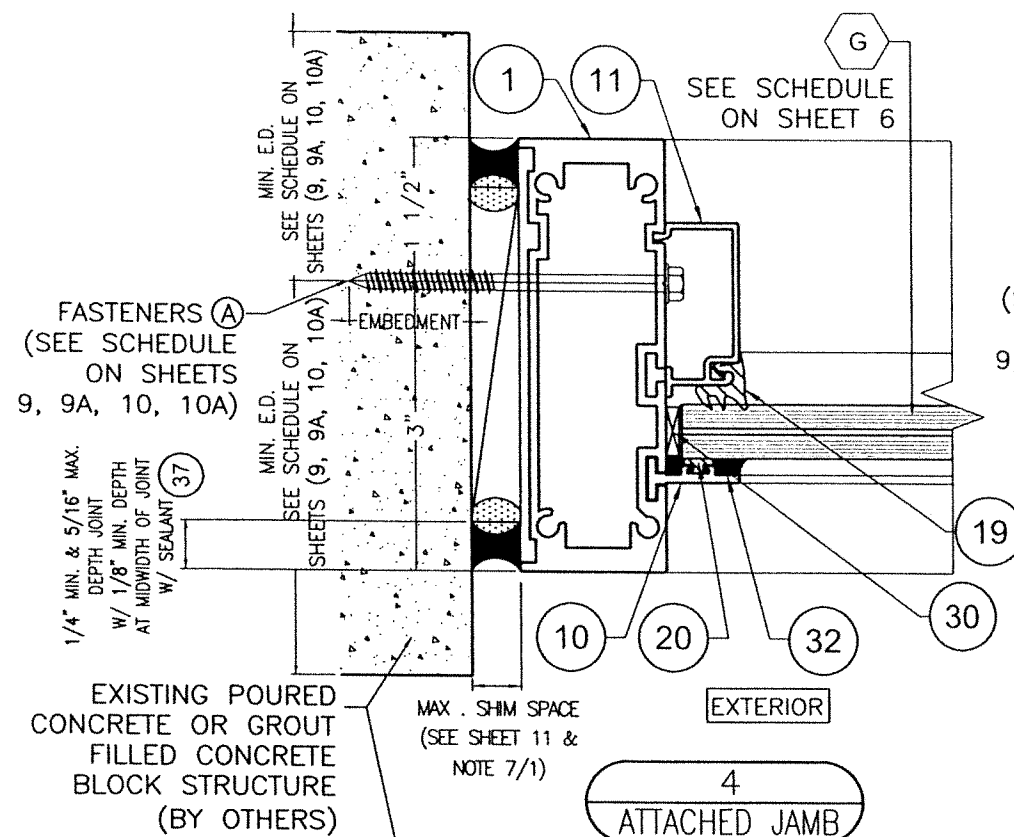
[Signature]
P.E. SEAL/SIGNATURE/DATE

© 2023 TILTECO INC.

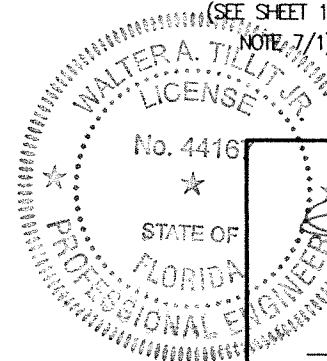
TILTECO INC.

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

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)					
HIGH IMPACT SERIES JAZS 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS				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				08/30/2023 DATE	
				23-204 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-
					SHEET 16 of 43



OPTIONAL SYSTEM #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
e-mail: tiltco@aol.com
CA-0006719

WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



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

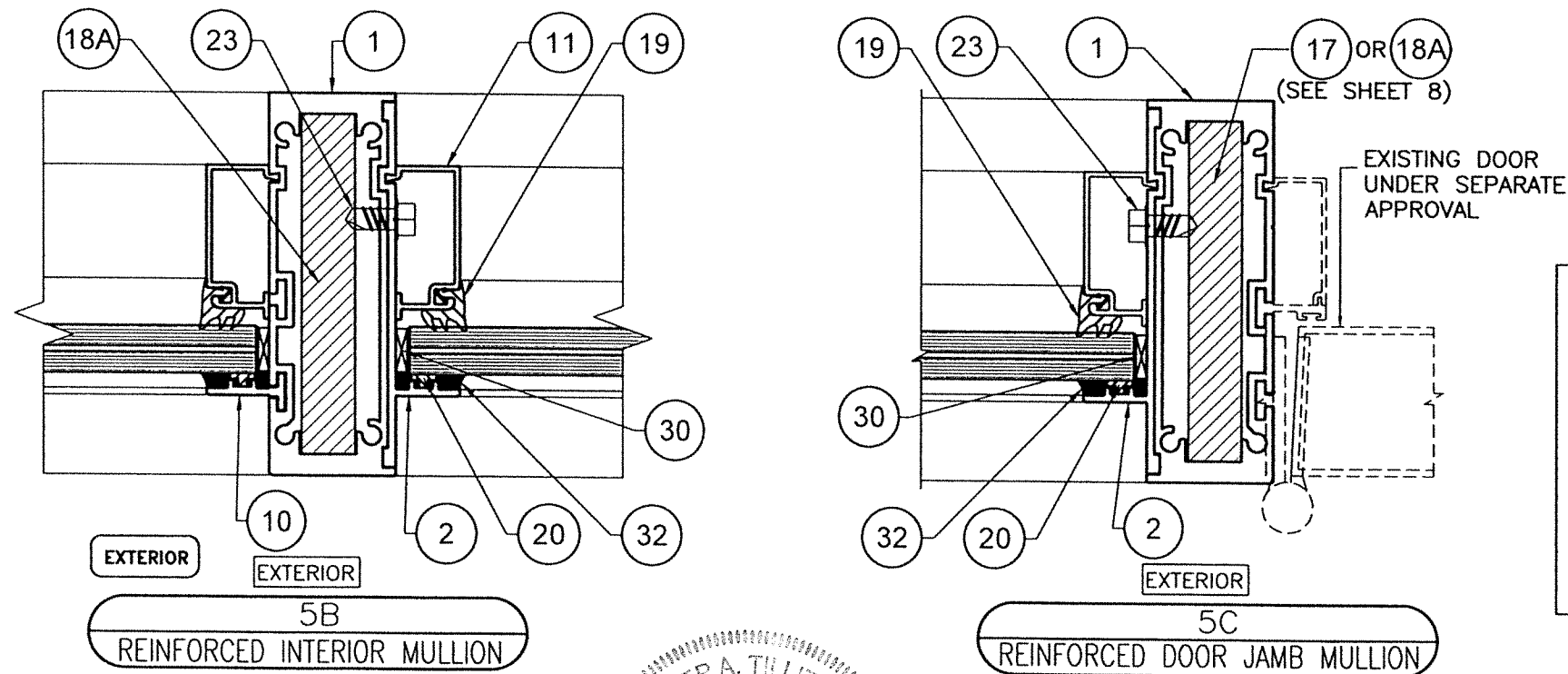
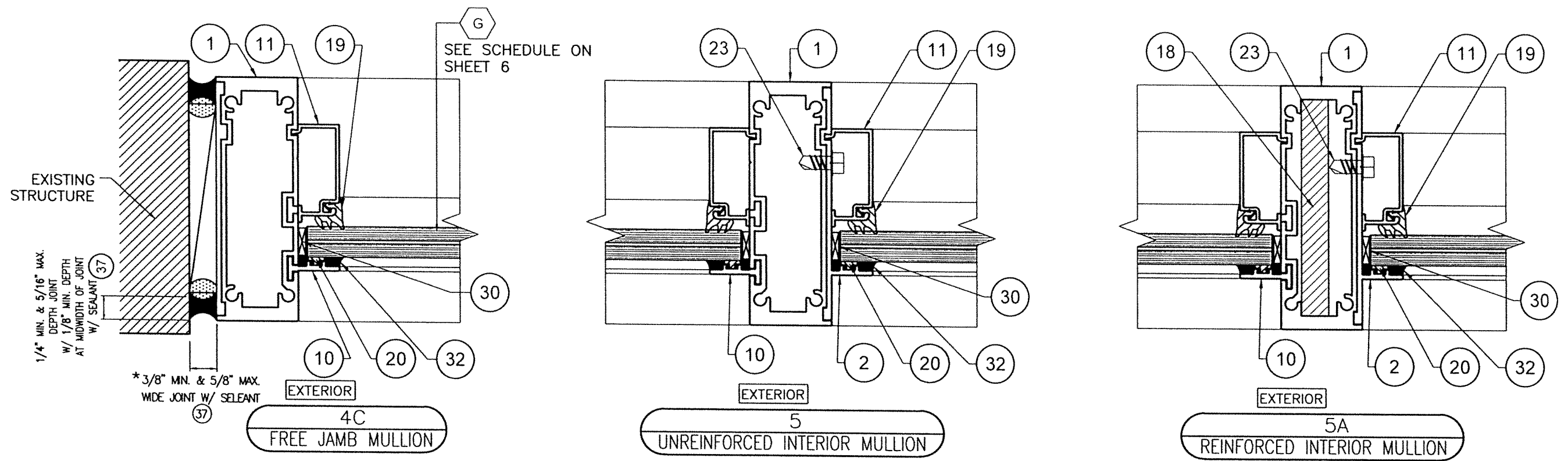
W.H
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

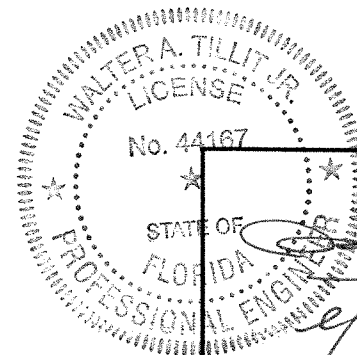
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

SHEET 17 OF 43



* NOTE: INDICATED MAXIMUM AND MINIMUM VALUES FOR SPECIFIED SEALANT VERTICAL JOINT WIDTH AT JAMBS CONNECTED & NOT CONNECTED TO WALL (FREE STANDING) HAVE BEEN DETERMINED ONLY TAKING INTO CONSIDERATION THE ACTUAL MOVEMENT OF GLASS WALL AT JAMBS DUE TO THERMAL, WIND AND ITS OWN CONSTRUCTION TOLERANCE, AND NOT PERFORMANCE FACTORS FROM THE SURROUNDING STRUCTURE.

OPTIONAL SYSTEM #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

e-mail: tilteco@aol.com

CA-0006719

WALTER A. TILLIT Jr., P.E.

FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZS 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

W.H. DRAWN BY:

08/30/2023 DATE

23-204 DRAWING No

290 WEST 78 ROAD HIALEAH, FL 33014

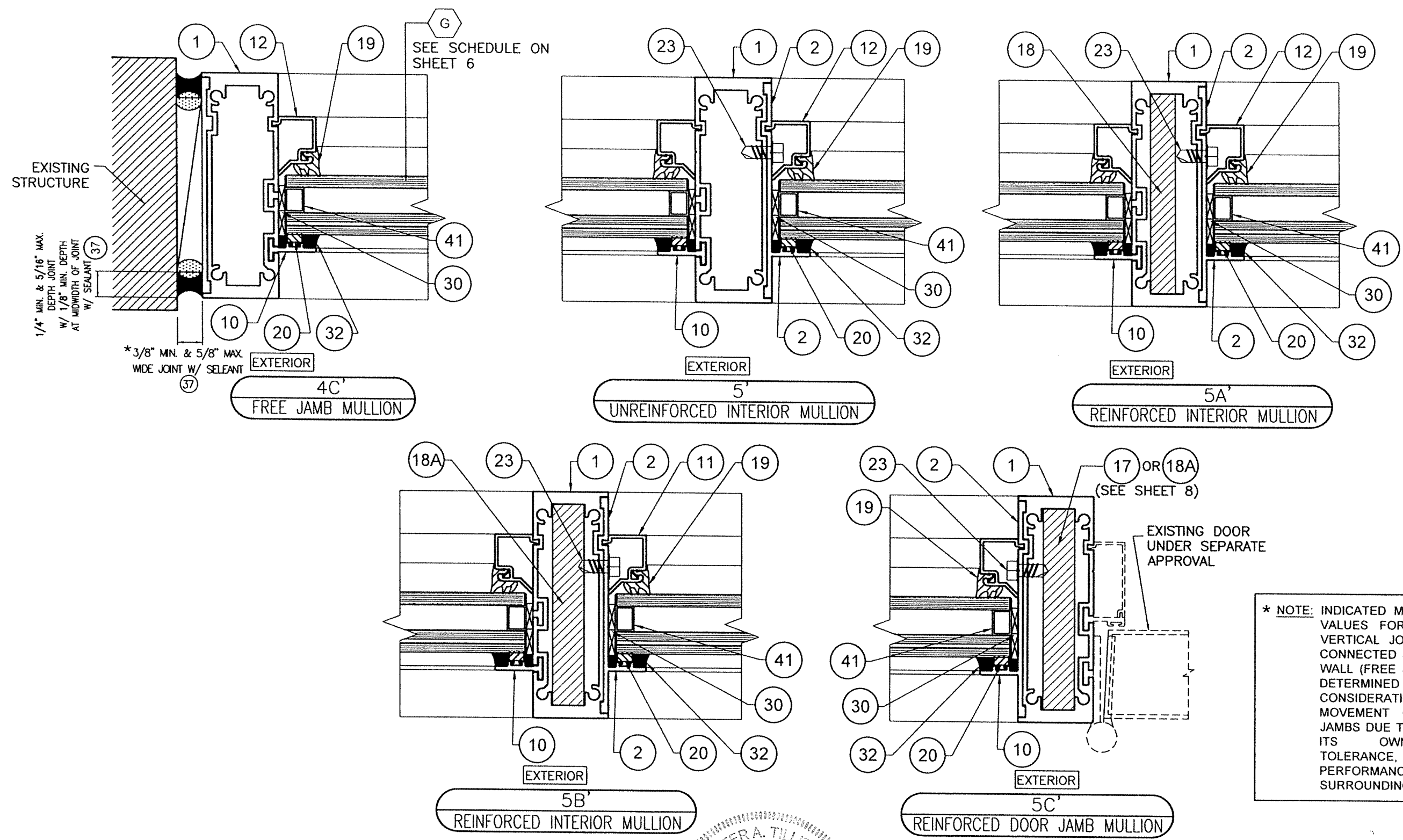
PH: (954)226-5555/(305)558-8103

FAX: (305)558-6665

www.gigwindows.com

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

SHEET 18 OF 43



* NOTE: INDICATED MAXIMUM AND MINIMUM VALUES FOR SPECIFIED SEALANT VERTICAL JOINT WIDTH AT JAMBS CONNECTED & NOT CONNECTED TO WALL (FREE STANDING) HAVE BEEN DETERMINED ONLY TAKING INTO CONSIDERATION THE ACTUAL MOVEMENT OF GLASS WALL AT JAMBS DUE TO THERMAL, WIND AND ITS OWN CONSTRUCTION TOLERANCE, AND NOT PERFORMANCE FACTORS FROM THE SURROUNDING STRUCTURE.

OPTIONAL SYSTEM #1

WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 4/12/2023
 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
 e-mail: tilteco@aol.com
 CA-0006719
 WALTER A. TILLIT JR., P.E.
 FLORIDA Lic. # 44167

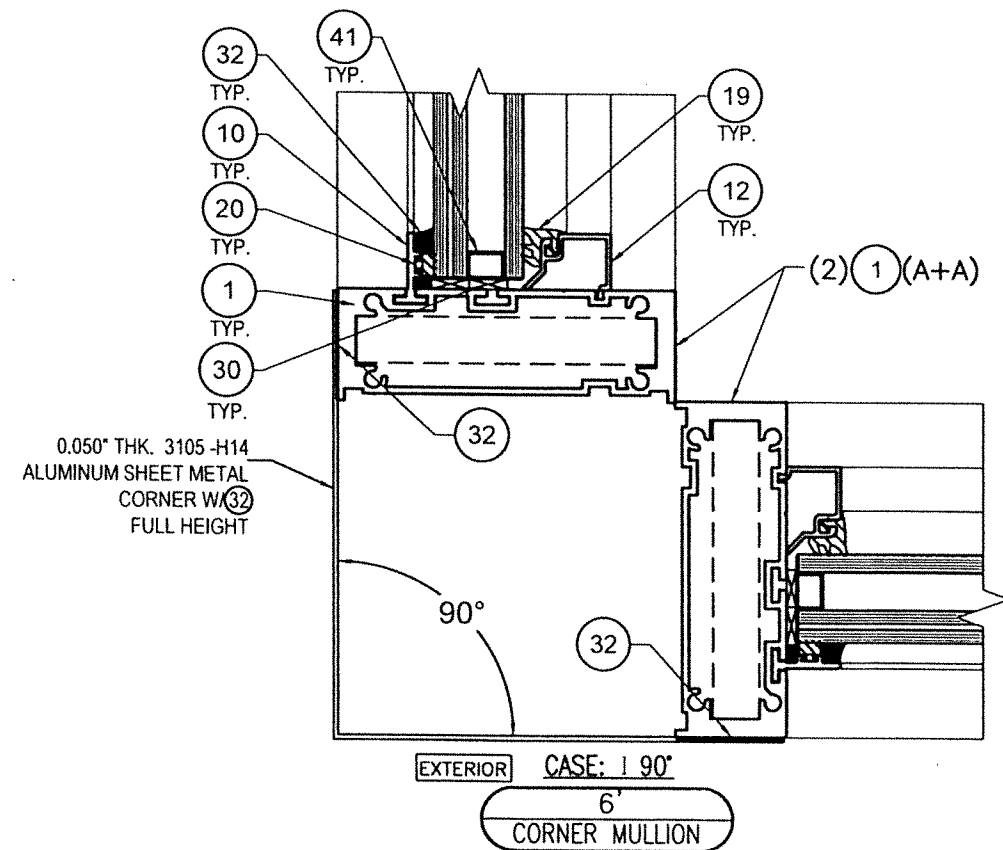
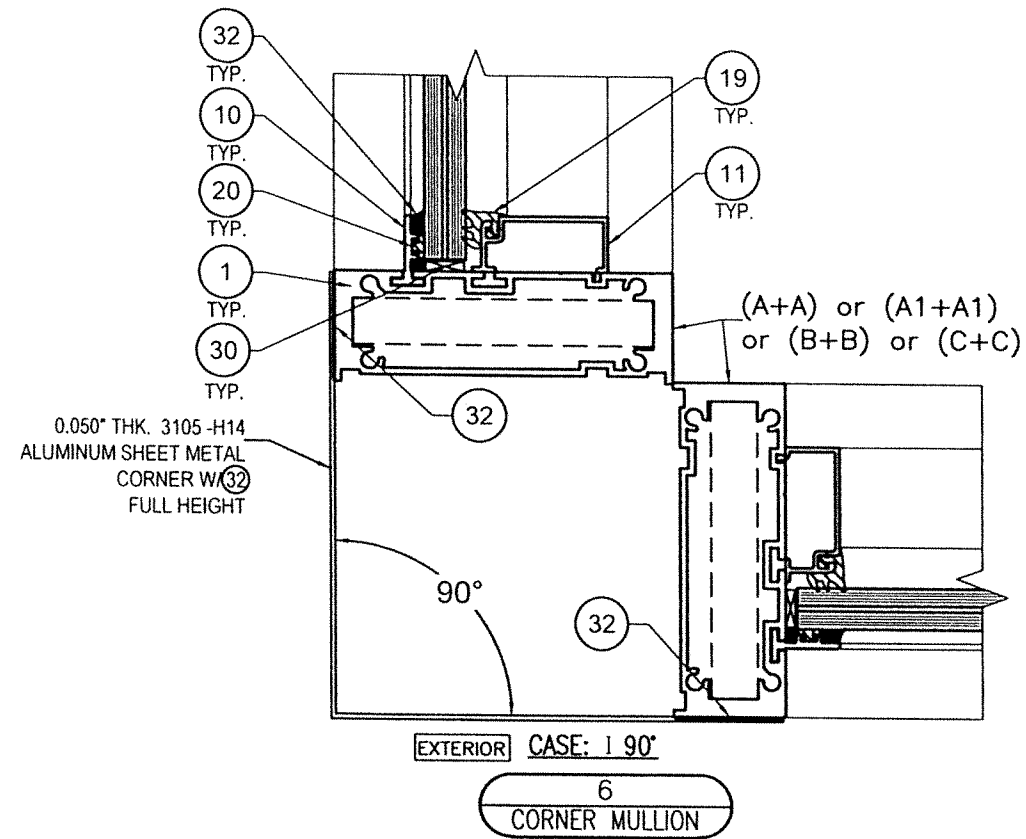
HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

STC WINDOWS & DOORS

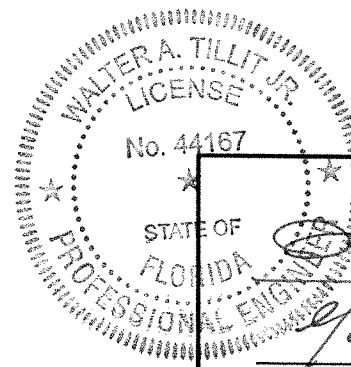
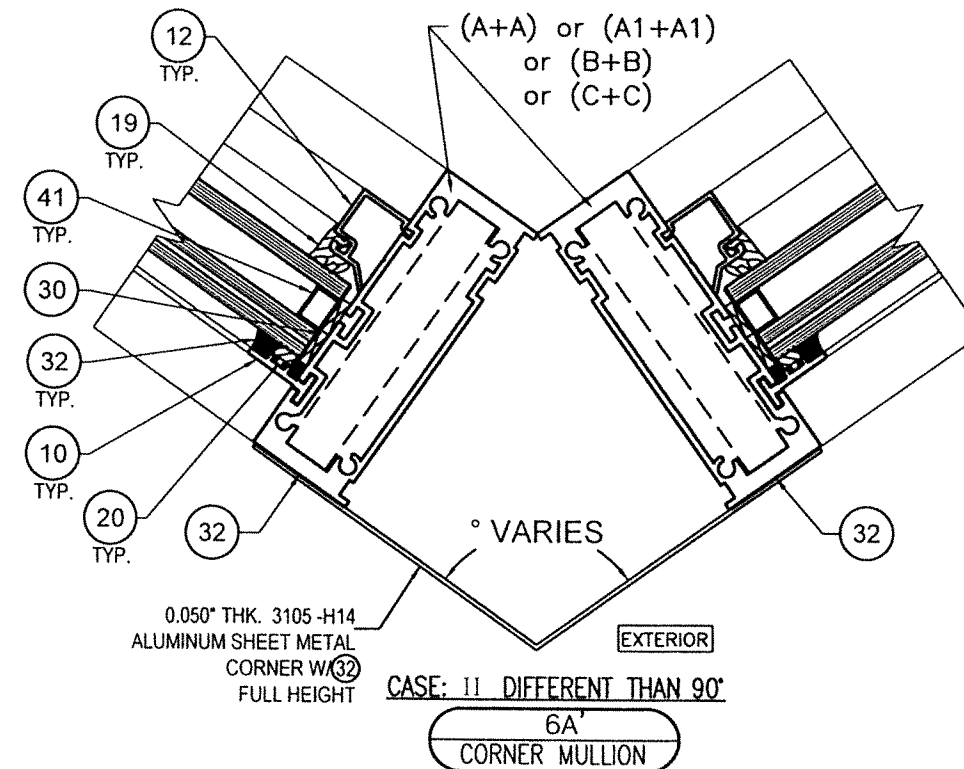
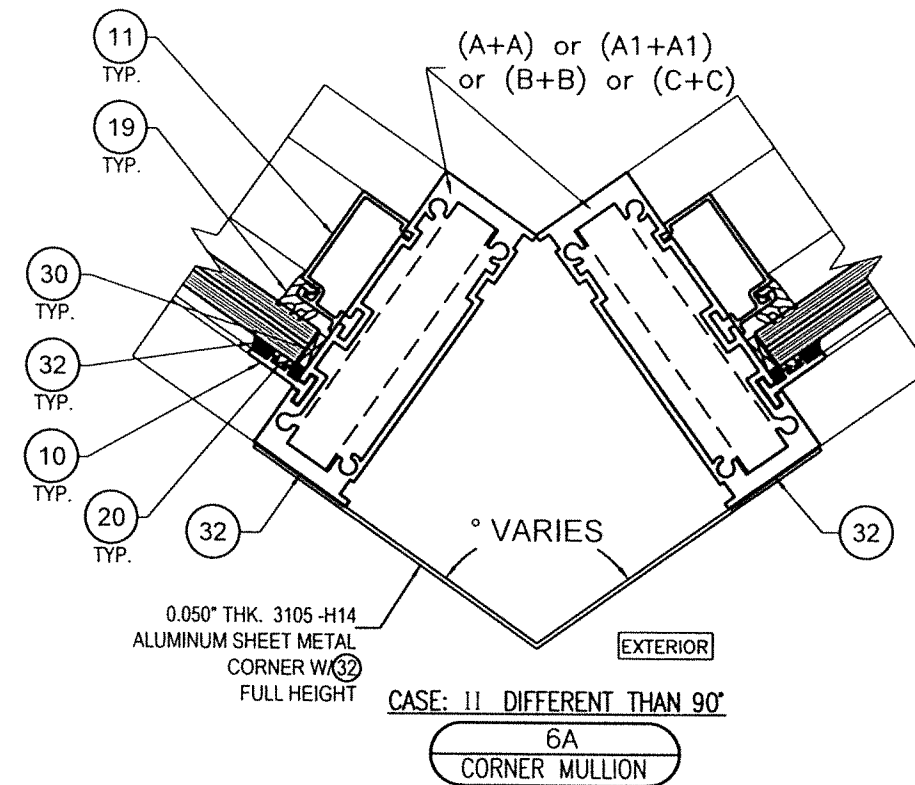
290 WEST 78 ROAD
 HIALEAH, FL 33014
 PH: (954)226-5555/(305)558-8103
 FAX: (305)558-6665
 www.gigwindows.com

W.H
 DRAWN BY:
 08/30/2023
 DATE
23-204
 DRAWING No
 SHEET 19 of 43

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-



OPTIONAL SYSTEM #1



P.E. SEAL/SIGNATURE/DATE

© 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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZS 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



290 WEST 78 ROAD
HIALEAH, FL 33014
PH: (954) 228-5555 / (305) 558-8103
FAX: (305) 558-6665
www.gigwindows.com

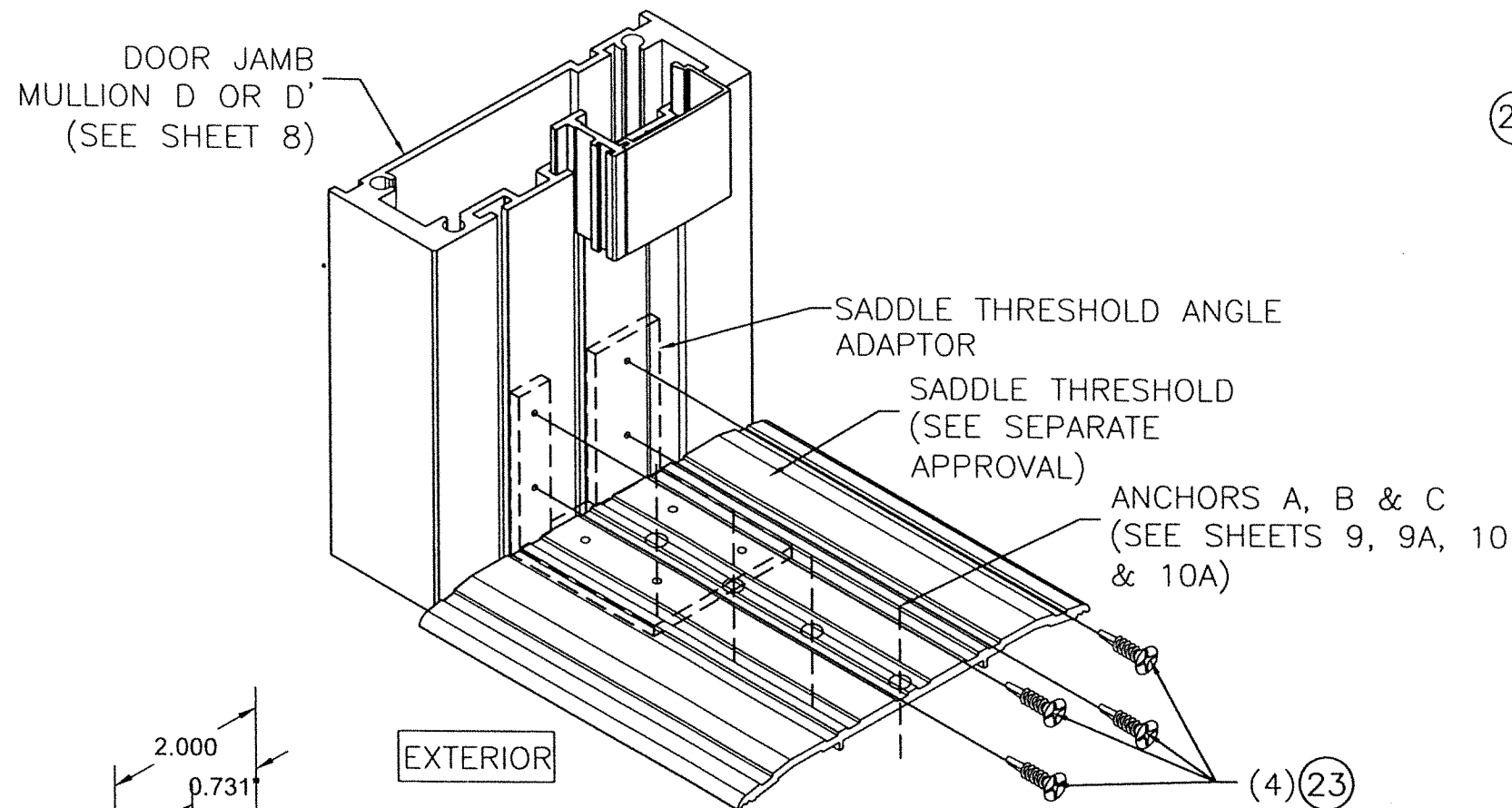
W.H
DRAWN BY:

08/30/2023
DATE

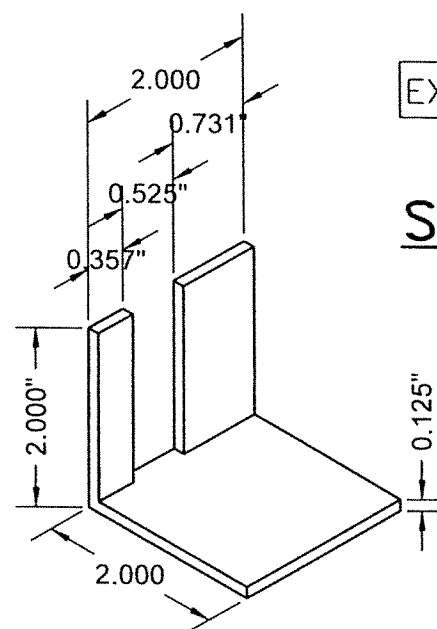
23-204
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

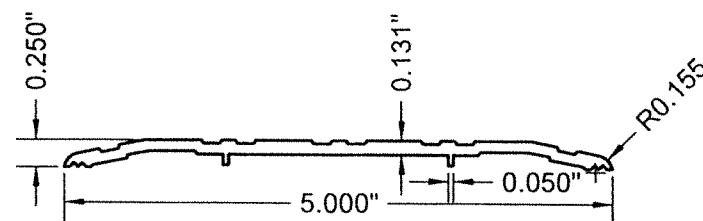
SHEET 20 OF 43



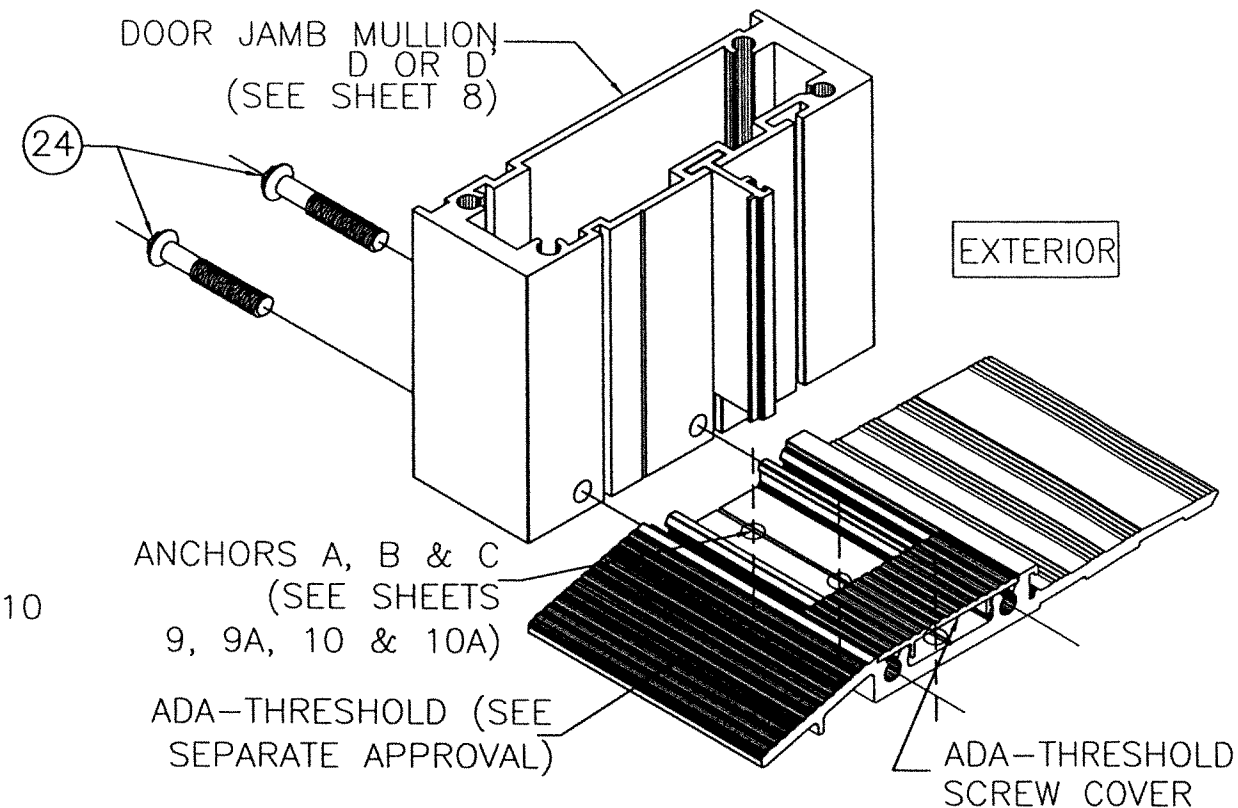
SADDLE THRESHOLD ASSEMBLY ISOMETRIC



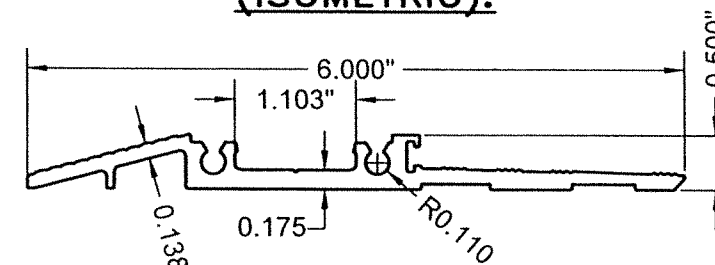
SADDLE THRESHOLD ANGLE ADAPTOR 2"X2"X1/8"X0'-2"
6063-T52 ALLOY



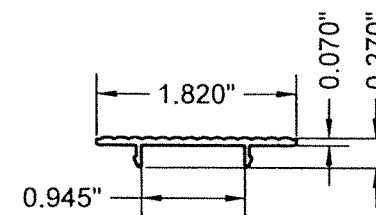
SADDLE THRESHOLD (SEE SEPARATE APPROVAL)
6063-T6 ALLOY



THRESHOLD ASSEMBLY (ISOMETRIC).

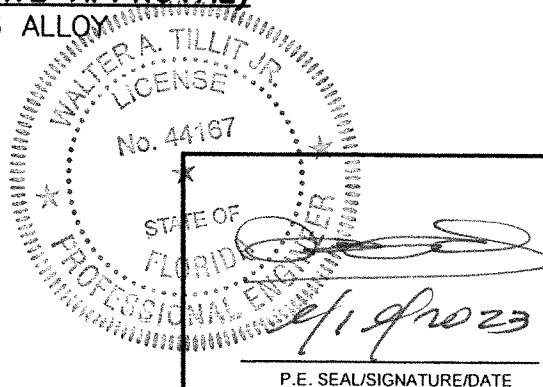


ADA-THRESHOLD (SEE SEPARATE APPROVAL)
6063-T6 ALLOY



ADA-THRESHOLD SCREW COVER
6063-T6 ALLOY

OPTIONAL SYSTEM #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
e-mail: tilteco@aol.com
CA-0006719

WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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

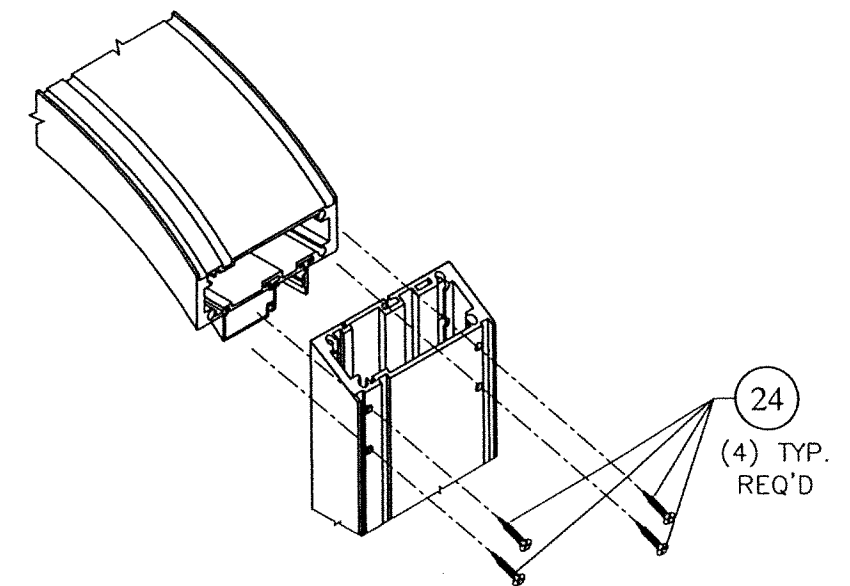
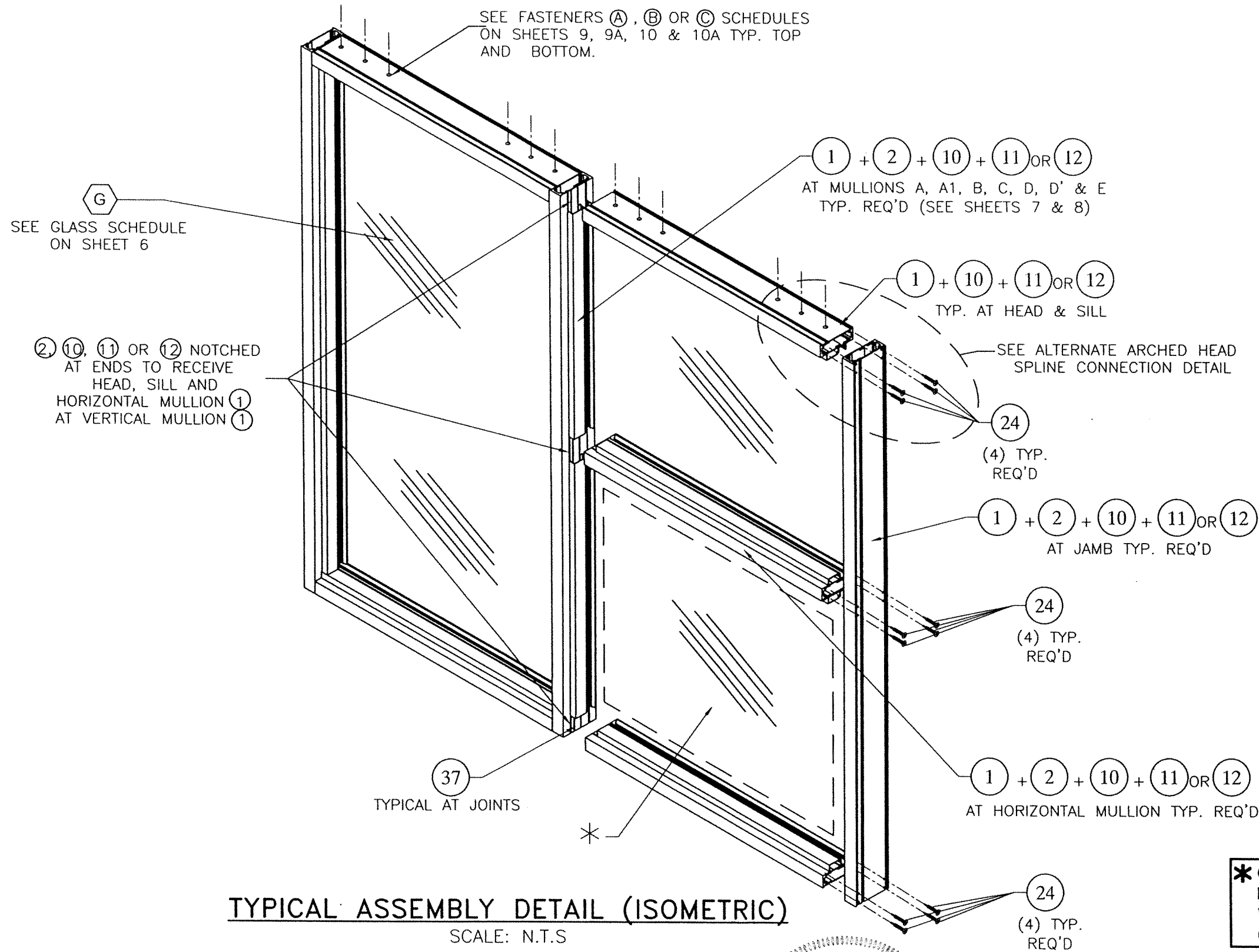
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

W.H
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

SHEET 21 OF 43



ARCHED HEAD SPLINE CONNECTION DETAIL

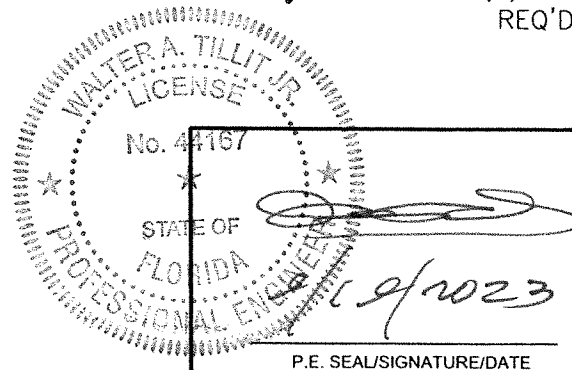
SCALE: N.T.S

TYPICAL ASSEMBLY DETAIL (ISOMETRIC)

SCALE: N.T.S

* GLASS MAY BE REPLACED BY AN APPROVED IMPACT RESISTANT WINDOW OR DOOR. WINDOW OR DOOR ANCHORAGE SHALL BE AS PER ITS OWN APPROVAL

OPTIONAL SYSTEM #1



FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

© 2023 TILTECO INC.



TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th. St., Ste. 305 - VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 , Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719

WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

W.H
DRAWN BY:



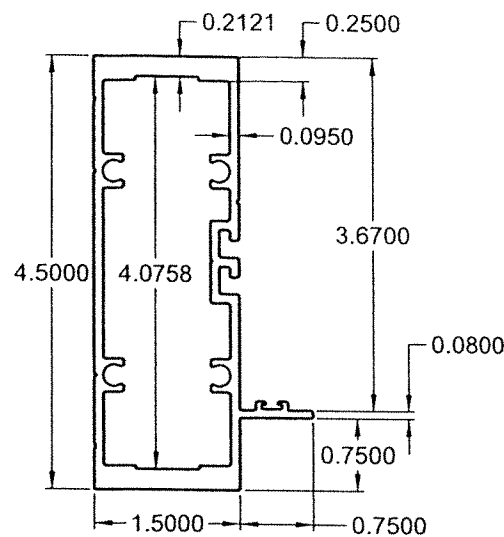
290 WEST 78 ROAD
HIALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com

08/30/2023
DATE

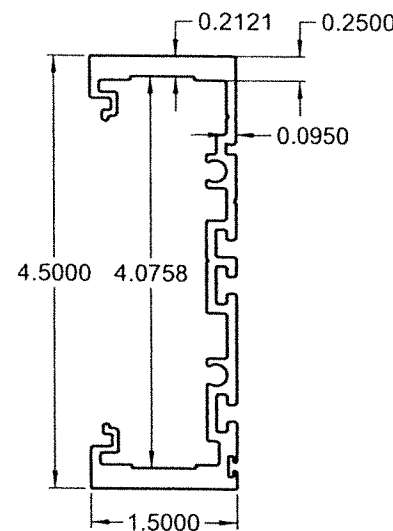
23-204
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

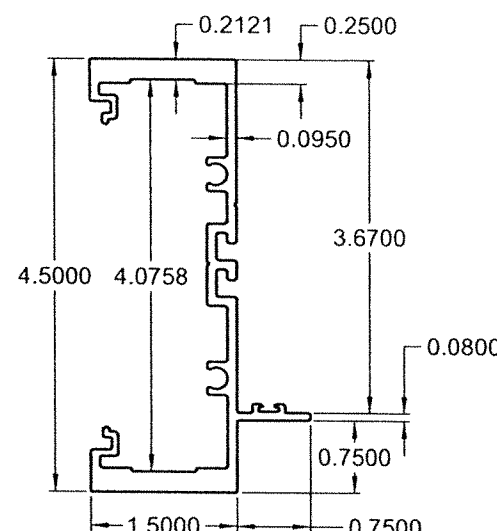
SHEET 22 OF 43



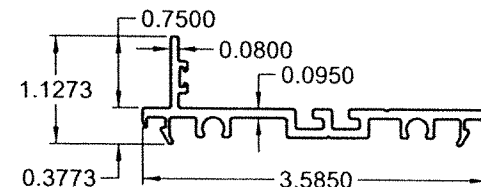
1 FRAME HEAD,
JAMB & SILL.
6063-T6 ALLOY



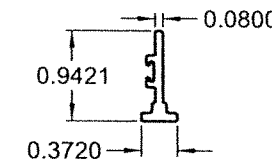
1A DOOR JAMB
MULLION
6063-T6 ALLOY



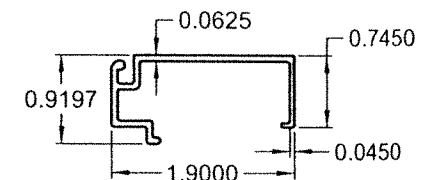
1B INTERIOR
MULLION
6063-T6 ALLOY



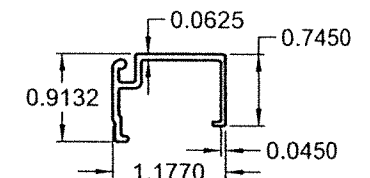
2 MULLION INSERT
FOR 1A & 1B
6063-T6 ALLOY



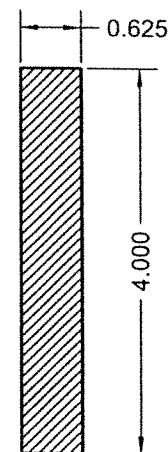
10 GLAZING ADAPTER
FIXED PANEL
6063-T6 ALLOY



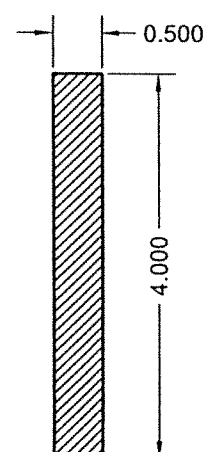
11 FIXED PANEL
GLAZING BEAD
LAMINATED GLASS
6063-T6 ALLOY



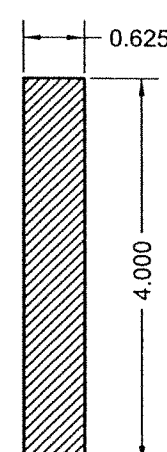
12 FIXED PANEL
GLAZING STOP
INSULATED GLASS
6063-T6 ALLOY



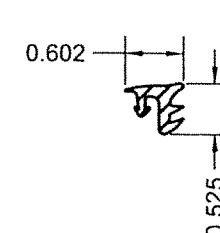
17 5/8" ALUMINUM
REINFORCEMENT
6063-T6 ALLOY



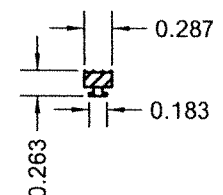
18 1/2" ALUMINUM
REINFORCEMENT
6063-T6 ALLOY



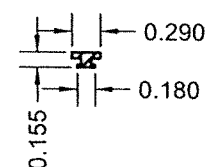
18A 5/8" STEEL
REINFORCEMENT
(EXTENDED PROTOCOL)



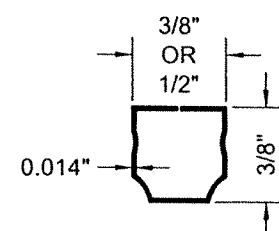
19 WEDGE GASKET
EPDM



20 SOLID RUBBER
GASKET
NEOPRENE / NYLON



21 GLAZING GASKET
TPE

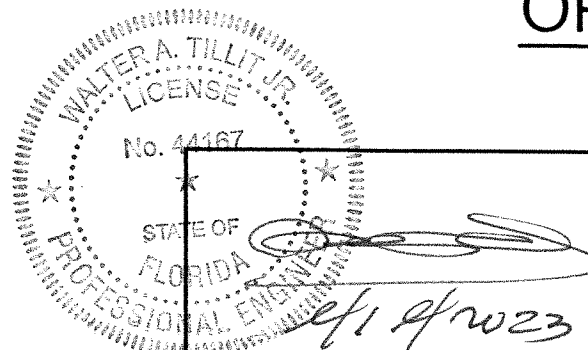


41 INSULATED GLASS
UNIT SPACER
NTS

COMPONENTS: OPTIONAL SYSTEM #2

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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



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:

08/30/2023
DATE

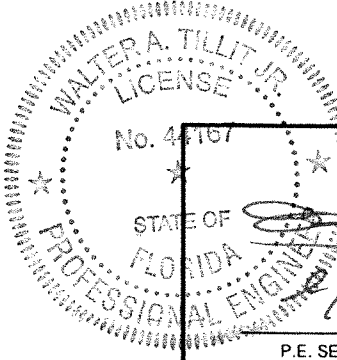
23-204
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

SHEET 23 OF 43

BILL OF MATERIALS (SEE GLASS ON SHEET 25)			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
①	FRAME HEAD, JAMB & SILL	SEE SHEET 23	6063-T6
①A	DOOR JAMB MULLION	SEE SHEET 23	6063-T6
①B	INTERIOR MULLION	SEE SHEET 23	6063-T6
②	MULLION INSERT FOR 1A & 1B	SEE SHEET 23	6063-T6
⑩	GLAZING ADAPTER FIXED PANEL	SEE SHEET 23	6063-T6
⑪	FIXED PANEL GLAZING LAMINATED GLASS	SEE SHEET 23	6063-T6
⑫	FIXED PANEL GLAZING INSULATED GLASS	SEE SHEET 23	6063-T6
⑰	5/8" ALUMINUM REINFORCEMENT	SEE SHEET 23	6063-T6
⑱	1/2" ALUMINUM REINFORCEMENT	SEE SHEET 23	6063-T6
⑱A	5/8" STEEL REINFORCEMENT	SEE SHEET 23. (EXTENDED PROTOCOL)	ASTM A-36 ZINC PLATED
⑲	WEDGE GASKET	SEE SHEET 23	EPDM
⑳	SOLID RUBBER GASKET	SEE SHEET 23	NEOPRENE/NYLON
㉑	GLAZING GASKET	SEE SHEET 23	TPE
㉓	#14 x 1-3/4" MIN PAN HEAD S.S. THRU BOLT W/ NUT	MULLION INSERT CONNECTION (5" start & 9" max o.c)	STEEL
㉔	#14 x 2 1/2" H.H SCREW	FRAME ASSEMBLY	STEEL
③①	SETTING BLOCK	0.122"x0.5" (ULTRAFAB)	E.P.D.M.
③②	FIN SEAL PILE W/ PLASTIC	ULTRAFAB	
③③	STRUCTURAL SILICONE DOW CORNING 995	ALL AROUND GLASS	SILICONE
③④	NON STRUCTURAL SILICONE DOW CORNING CONTRACTORS CONCRETE SEALANT (CCS)	AS SHOWN	SILICONE
④①	INSULATED GLASS UNIT SPACER	SEE SHEET 23	3105-H24 ALUMINUM
④④	#8 x 1 1/4" P.H SCREW	FRAME SADDLE THRESHOLD ASSEMBLY	S.S.

OPTIONAL SYSTEM #2

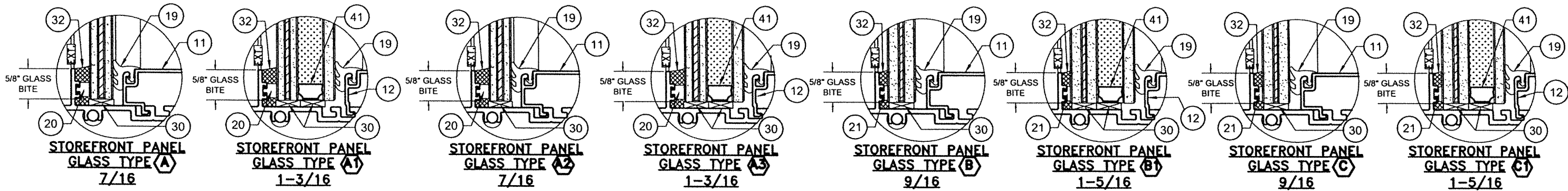


P.E. SEAL/SIGNATURE/DATE

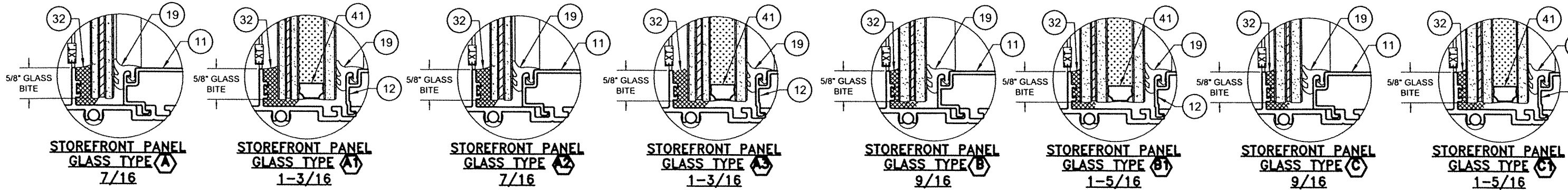
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

© 2023 TILTECO INC.		HIGH IMPACT SERIES JAZS 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS		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 e-mail: tilteco@aol.com 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		08/30/2023 DATE		
REV. No		DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1		OLD 20-278	08/30/23	2		-
				23-204 DRAWING No		SHEET 24 OF 43

BILL OF MATERIALS FOR GLASS		
COMPONENT #	DESCRIPTION	MATERIAL
A	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS + 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS.	GLASS
A1	1-3/16" NOMINAL INSULATED-LAMINATED GLASS W/ 3/16" H.S. GLASS + 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS
A2	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
A3	1-3/16" NOMINAL INSULATED-LAMINATED GLASS W/ 3/16" H.S. GLASS + 0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS
B	9/16" NOMINAL LAMINATED GLASS W/ 1/4" H.S. GLASS + 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS.	GLASS
B1	1 5/16" NOMINAL INSULATED-LAMINATED GLASS W/ 1/4" H.S. GLASS + 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS
C	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
C1	1 5/16" NOMINAL INSULATED-LAMINATED GLASS W/ 1/4" H.S. GLASS + 0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS



GLAZING DETAILS AT SETTING BLOCKS AT STOREFRONT
SCALE: N.T.S



GLAZING DETAILS IN BETWEEN SETTING BLOCKS AT STOREFRONT
SCALE: N.T.S

OPTIONAL SYSTEM #2

WALTER A. TILLIT JR.
LICENSED PROFESSIONAL ENGINEER
No. 44167
STATE OF FLORIDA
P.E. SEAL/SIGNATURE/DATE
8/9/2023

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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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

08/30/2023
DATE

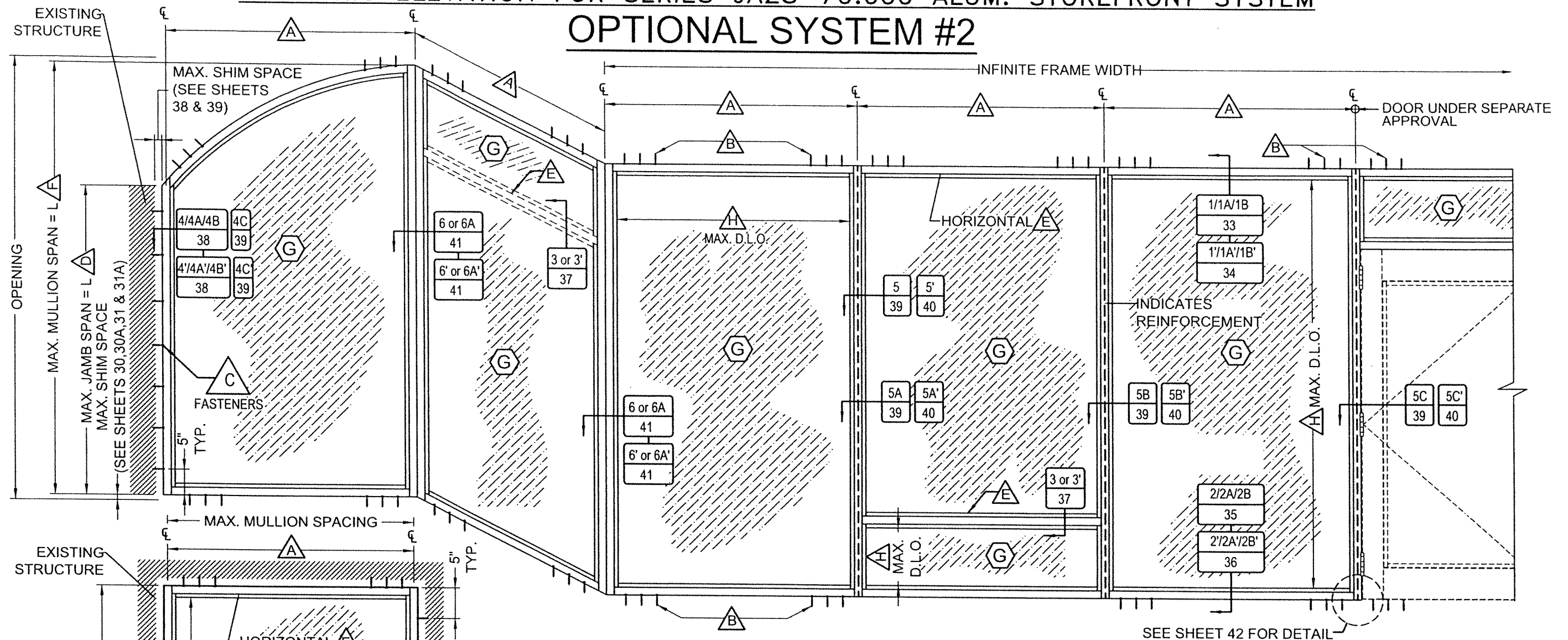
23-204
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

SHEET 25 OF 43

ISOMETRIC ELEVATION FOR SERIES JAZS-70.000 ALUM. STOREFRONT SYSTEM

OPTIONAL SYSTEM #2



FOOT NOTES:

- A** MAXIMUM MULLION SPACING SEE SHEETS 28 & 29.
- B** FOR HEAD AND SILL FASTENERS QUANTITY, TYPES AND SPECS SEE SHEETS 30, 30A, 31 & 31A.
- C** SEE SHEET 32 FOR MAXIMUM ANCHOR SPACING FOR JAMB MULLION "A" ATTACHED TO EXISTING STRUCTURE.
- D** SEE SHEET 28 FOR MAXIMUM A.S.D DESIGN PRESSURE RATING FOR JAMB MULLION "A" NOT ATTACHED TO EXISTING STRUCTURE.
- E** IS LIMITED TO 5'-0" BETWEEN MULLIONS.
- F** FOR MAXIMUM MULLION SPAN SEE SHEETS 28 & 29.
- G** FOR GLAZING CONFIGURATIONS SEE SHEET 25.
- H** FOR MAXIMUM D.L.O. VS A.S.D DESIGN PRESSURE RATING FOR GLASS, SEE SCHEDULE ON SHEET 27.

*** NOTE: ELEVATIONS FOR SINGLE & MULTIPLE PANELS FIXED GLASS WALL SERIES 70000 MAY BE INSTALLED ROTATED 90° FROM ABOVE SHOWN ORIENTATION.**

SINGLE PANEL

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

WALTER A. TILIT JR.
P.E. SEAL/SIGNATURE/DATE
8/2023

© 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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZS 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS
290 WEST 78 ROAD
HIALEAH, FL. 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com
GIG WINDOWS & DOORS

W.H
DRAWN BY:
08/30/2023
DATE
23-204
DRAWING No
SHEET 26 OF 43

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

MAXIMUM DESIGN PRESSURE RATING (psf) SCHEDULE FOR A GIVEN GLASS TYPE
AND GLASS D.L.O PANEL DIMENSIONS "a" (in) x "b" (in) (SEE LEGEND)

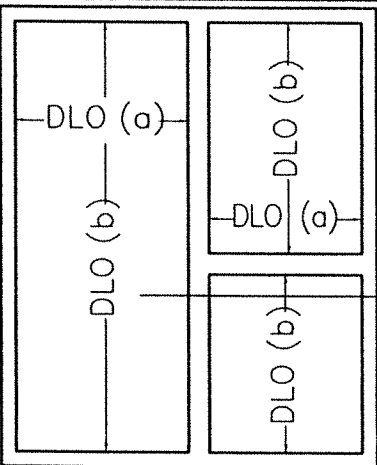
GLASS TYPE A & A1: WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
6"	from 6" to 60"	±66.0
9"	from 9" to 90"	±66.0
12"	from 12" to 120"	±66.0
15"	from 15" to 150"	±66.0
18"	from 18" to 180"	±66.0
21"	from 21" to 210"	±66.0
24"	from 24" to 190"	±66.0
27"	from 27" to 168"	±66.0
30"	from 30" to 144"	±66.0
32"	from 32" to 143"	±66.0
34"	from 34" to 135"	±66.0
36"	from 36" to 127"	±66.0
38"	from 38" to 120"	±66.0
40"	from 38" to 114"	±66.0
42"	from 42" to 109"	±66.0
44"	from 44" to 104"	±66.0
45"	from 45" to 101.5"	±64.9
46"	from 46" to 99.5"	±63.5
48"	from 48" to 95"	±60.8
50"	from 50" to 91.5"	±58.4
52"	from 52" to 88.0"	±56.2
54"	from 54" to 84.5"	±54.1
56"	from 56" to 81.5"	±52.1
57"	from 57" to 80"	±51.2

GLASS TYPE A2 & A3: WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
6"	from 6" to 60"	±55.0
9"	from 9" to 90"	±55.0
12"	from 12" to 120"	±55.0
15"	from 15" to 150"	±55.0
18"	from 18" to 180"	±55.0
21"	from 21" to 210"	±55.0
24"	from 24" to 240"	±55.0
27"	from 27" to 270"	±55.0
30"	from 30" to 144"	±55.0
32"	from 32" to 144"	±55.0
34"	from 34" to 144"	±55.0
36"	from 36" to 144"	±55.0
38"	from 38" to 144"	±55.0
40"	from 38" to 144"	±55.0
42"	from 42" to 144"	±55.0
44"	from 44" to 144"	±55.0
45"	from 45" to 144"	±55.0
46"	from 46" to 144"	±54.3
48"	from 48" to 144"	±55.0
50"	from 50" to 144"	±55.0
52"	from 52" to 144"	±55.0
54"	from 54" to 144"	±55.0
56.25"	from 56.25" to 139.5"	±55.0
57"	from 57" to 137.5"	±54.3

GLASS TYPE B & B1: WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
6"	from 6" to 60"	±90.0
9"	from 9" to 90"	±90.0
12"	from 12" to 120"	±90.0
15"	from 15" to 150"	±90.0
18"	from 18" to 180"	±90.0
21"	from 21" to 169"	±90.0
24"	from 24" to 148"	±90.0
27"	from 27" to 131"	±90.0
30"	from 30" to 119"	±90.0
32"	from 32" to 111.5"	±90.0
34"	from 34" to 105"	±90.0
36"	from 36" to 99"	±90.0
38"	from 38" to 94"	±90.0
40"	from 38" to 89"	±90.0
42"	from 42" to 85"	±90.0
44"	from 44" to 81"	±90.0
45"	from 45" to 79.5"	±90.0
46"	from 46" to 77.5"	±88.0
48"	from 48" to 74.5"	±84.4
50"	from 50" to 71"	±81.0
52"	from 52" to 68.5"	±77.9
54"	from 54" to 66"	±75.0
56"	from 56" to 63.5"	±72.3
57"	from 57" to 62.5"	±71.1

GLASS TYPE C & C1: WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
6"	from 6" to 60"	+90,-180
9"	from 9" to 90"	+90,-180
12"	from 12" to 120"	+90,-180
15"	from 15" to 150"	+90,-180
18"	from 18" to 180"	+90,-180
21"	from 21" to 210"	+90,-180
24"	from 24" to 188"	+90,-180
27"	from 27" to 167"	+90,-180
30"	from 30" to 144"	+90,-180
32"	from 32" to 141.5"	+90,-180
34"	from 34" to 133"	+90,-180
36"	from 36" to 126"	+90,-180
38"	from 38" to 119"	+90,-180
40"	from 38" to 113"	+90,-180
42"	from 42" to 108"	+90,-180
44"	from 44" to 103"	+90,-180
45"	from 45" to 100.5"	+90,-180
46"	from 46" to 98.5"	+90,-180
48"	from 48" to 94"	+90,-180
50"	from 50" to 90.5"	+90,-180
52"	from 52" to 87"	+90,-180
54"	from 54" to 84"	+90,-180
56"	from 56" to 80.5"	+90,-180
57"	from 57" to 79.5"	+90,-180

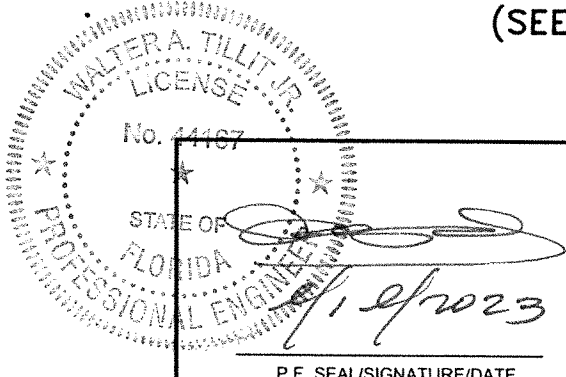
DIMENSIONS LEGEND *



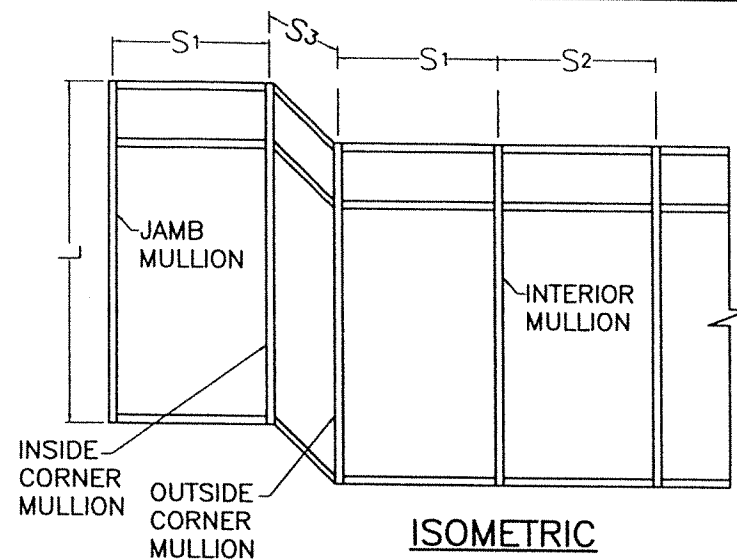
* SIDE "a" IS ALWAYS EQUAL OR SHORTER THAN "b".
"a", "b" MAY BE ORIENTED IN ANY DIRECTION.

OPTIONAL SYSTEM #2

(SEE SHEET 25 FOR GLASS CONFIGURATION)



FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)		W.H. DRAWN BY:			
© 2023 TILTECO INC.		HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS			
TILTECO INC.		290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com			
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305 - VIRGINIA GARDENS, FL 33166 Phone : (305) 871-1530 , Fax : (305) 871-1531 e-mail: tilteco@aol.com CA-0006719		08/30/2023 DATE			
WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167		23-204 DRAWING No			
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-
SHEET 27 OF 43					

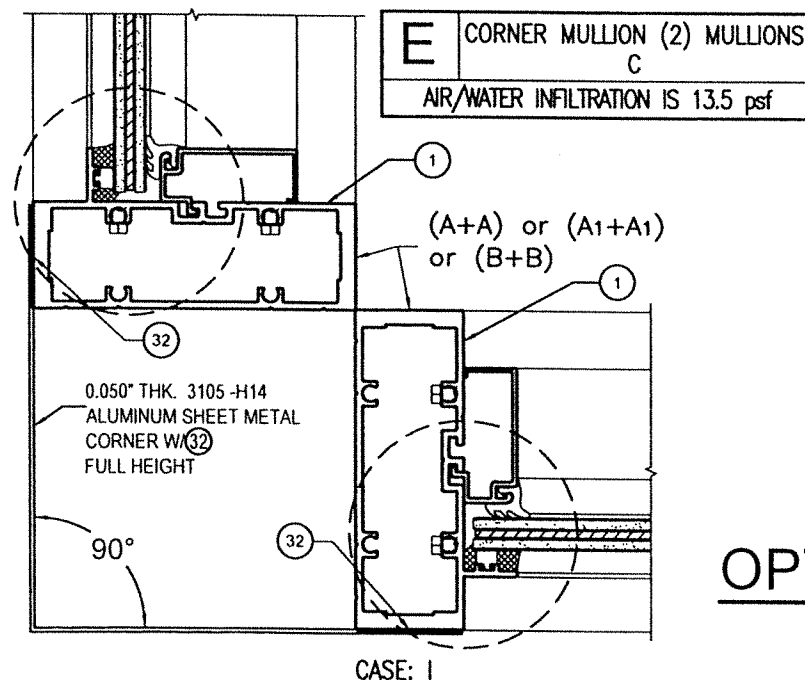


ISOMETRIC

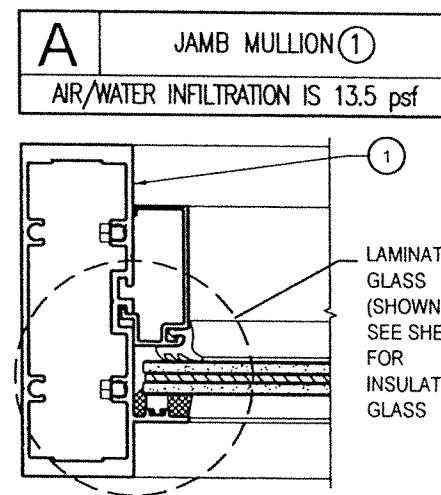
L = MULLION SPAN
 EFFECTIVE SPACING $b = \frac{S_1 + S_2}{2}$ (SEE SCHEDULE.)
 (FOR INTERIOR MULLION)
 EFFECTIVE SPACING $b = \frac{S_1 + S_3}{2}$ (SEE SCHEDULE.)
 (FOR CORNER MULLION)
 EFFECTIVE SPACING $b = \frac{S_1}{2}$ (SEE SCHEDULE.)
 (FOR JAMB MULLION)

DEFINITIONS

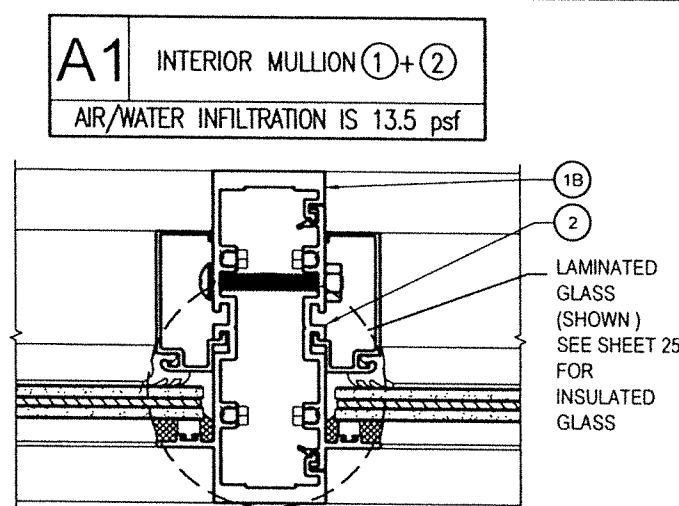
- A** : UNREINFORCED JAMB OR CORNER MULLION
 (SEE SHEET 26 FOR APPLICABLE SECTIONS)
- A1** : UNREINFORCED INTERIOR OR CORNER MULLION
 (SEE SHEET 26 FOR APPLICABLE SECTIONS)
- B** : REINFORCED INTERIOR OR CORNER MULLION
 (SEE SHEET 26 FOR APPLICABLE SECTIONS)
- E** : CORNER MULLION (EITHER INSIDE OR OUTSIDE)
 MADE OF (2) A OR (2) A1 OR (2) B MULLIONS



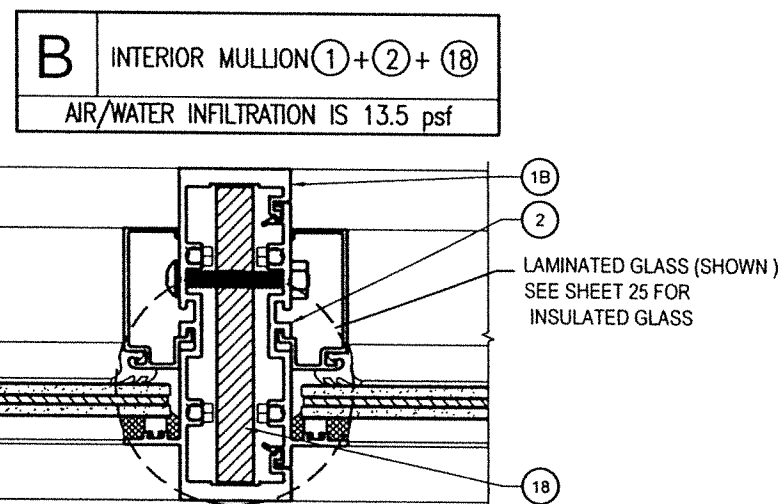
CASE: I



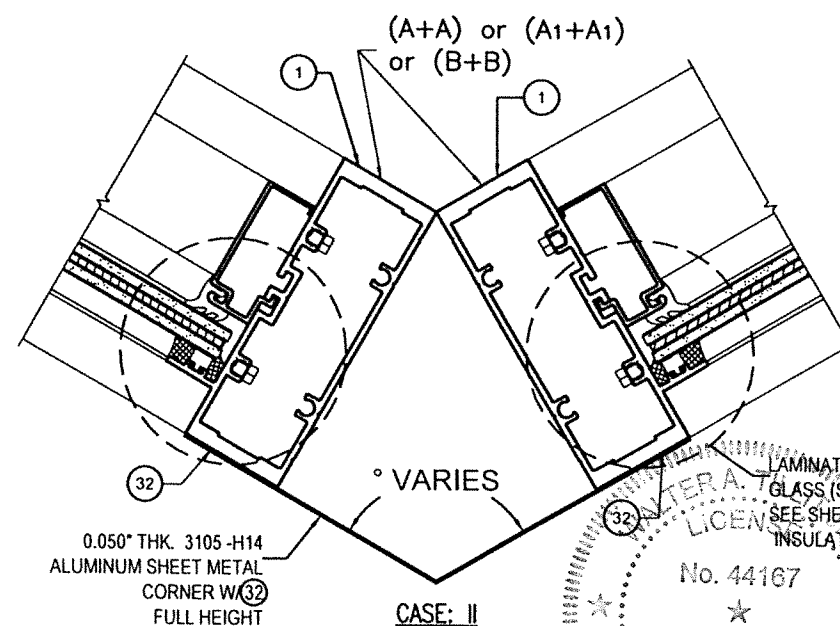
A JAMB MULLION ①
 AIR/WATER INFILTRATION IS 13.5 psf



A1 INTERIOR MULLION ①+②
 AIR/WATER INFILTRATION IS 13.5 psf



B INTERIOR MULLION ①+②+③
 AIR/WATER INFILTRATION IS 13.5 psf



CASE: II

OPTIONAL SYSTEM #2

MAXIMUM MULLION SPAN "L"(FT) SCHEDULE FOR A GIVEN DESIGN PRESSURE RATING AND A GIVEN MULLION EFFECTIVE SPACING "b" *

MAXIMUM DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING FOR A or E ▲ "b" (Ft-in)	EFFECTIVE SPACING FOR A1 or B "b" (Ft-in)	MAX. SPAN A or E (A+A) "L" (Ft-in)	MAX. SPAN A1 or E (A1+A1) "L" (Ft-in)	MAX. SPAN B or E (B+B) "L" (Ft-in)
47.8	1'-6"	3'-0"	11'-8"	9'-0"	11'-8"
	2'-0"	4'-0"	10'-7"	9'-0"	10'-1"
	2'-6"	5'-0"	9'-6"	9'-0"	9'-0"
50.0	1'-6"	3'-0"	11'-8"	9'-0"	11'-5"
	2'-0"	4'-0"	10'-4"	9'-0"	9'-10"
	2'-6"	5'-0"	9'-3"	9'-0"	8'-10"
55.0	1'-6"	3'-0"	11'-4"	9'-0"	10'-10"
	2'-0"	4'-0"	9'-10"	9'-0"	9'-5"
	2'-6"	5'-0"	8'-7"	8'-10"	8'-1"
60.0	1'-6"	3'-0"	10'-11"	9'-0"	10'-5"
	2'-0"	4'-0"	9'-5"	9'-0"	9'-1"
	2'-6"	5'-0"	8'-5"	7'-11"	8'-1"
65.0	1'-6"	3'-0"	10'-6"	9'-0"	10'-0"
	2'-0"	4'-0"	9'-1"	9'-0"	8'-8"
	2'-6"	5'-0"	7'-4"	7'-4"	7'-9"
70.0	1'-6"	3'-0"	10'-1"	9'-0"*	9'-8"
	2'-0"	4'-0"	8'-6"	9'-0"*	8'-4"
	2'-6"	5'-0"	6'-9"	7'-2"*	7'-2"
75.0	1'-6"	3'-0"	9'-9"	-	9'-4"
	2'-0"	4'-0"	7'-11"	-	8'-1"
	2'-6"	5'-0"	6'-4"	-	6'-9"
80.0	1'-6"	3'-0"	9'-5"	-	9'-0"
	2'-0"	4'-0"	7'-5"	-	7'-10"
	2'-6"	5'-0"	6'-0"	-	6'-4"
85.0	1'-6"	3'-0"	9'-4"	-	8'-9"
	2'-0"	4'-0"	7'-0"	-	7'-5"
	2'-6"	5'-0"	5'-7"	-	5'-11"
90.0	1'-6"	3'-0"	8'-9"	-	8'-7"
	2'-0"	4'-0"	6'-7"	-	6'-10"
	2'-6"	5'-0"	5'-3"	-	5'-7"

* ONLY VALID FOR UP TO 66 psf.

▲ VALID FOR "E" CORNER MULLION CONSISTING OF (A+A) OR (A1+A1) OR (B+B)

* MAXIMUM POSITIVE A.S.D. DESIGN PRESSURE RATING IS 90 psf FOR MULLION A, A1 & B.

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 44167
 e/12/2023
 P.E. SEAL/SIGNATURE/DATE

© 2023 TILTECO INC.
TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305 - VIRGINIA GARDENS, FL 33168
 Phone : (305) 871-1530, Fax : (305) 871-1531
 e-mail: tilteco@aol.com
 CA-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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

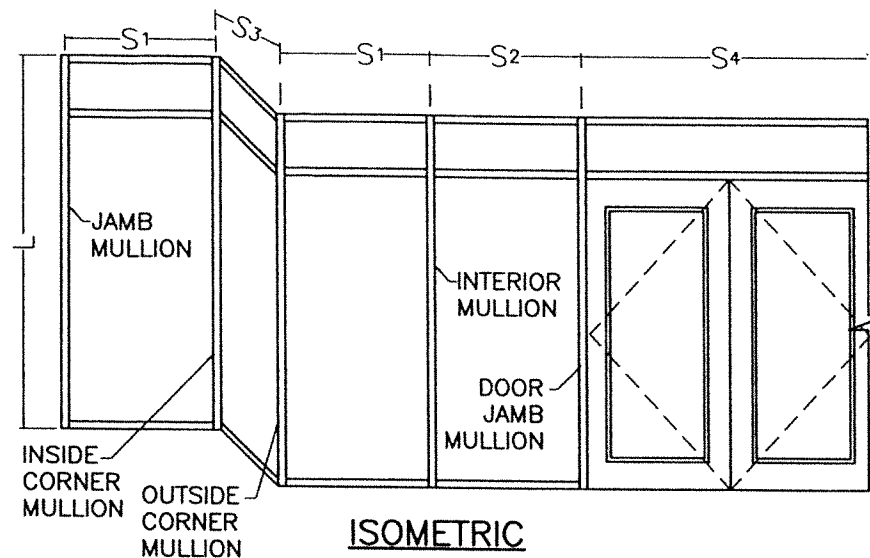
REV. No. DESCRIPTION DATE REV. No. DESCRIPTION DATE
 1 OLD 20-278 08/30/23 2 - -

W.H
 DRAWN BY:

08/30/2023
 DATE

23-204
 DRAWING No

SHEET 28 OF 43



ISOMETRIC

L = MULLION SPAN

EFFECTIVE SPACING $b = \frac{S_1 + S_2}{2}$ (SEE SCHEDULE,
(FOR INTERIOR MULLION)

EFFECTIVE SPACING $b = \frac{S_1 \text{ AND } S_3}{2}$ (SEE SCHEDULE)
(FOR CORNER MULLION)

EFFECTIVE SPACING $b = \frac{S_2 + S_4}{2}$ (SEE SCHEDULE)
(FOR DOOR JAMB MULLION)

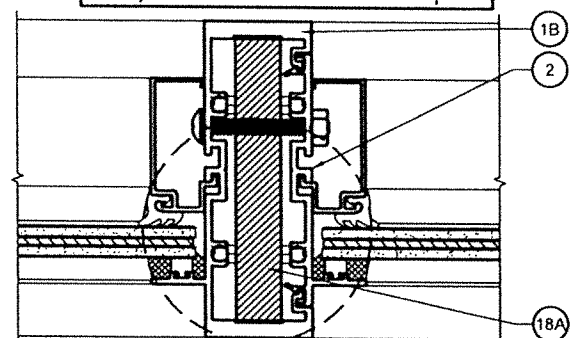
DEFINITIONS

C : REINFORCED INTERIOR OR CORNER MULLION
(SEE SHEET 26 FOR APPLICABLE SECTIONS)

D,D' : REINFORCED DOOR JAMB OR INTERIOR MULLIONS
(SEE SHEET 26 FOR APPLICABLE SECTIONS)

E : CORNER MULLION (EITHER INSIDE OR OUTSIDE)
MADE OF (2) C MULLIONS

C INTERIOR MULLION (1) + (18A)
AIR/WATER INFILTRATION IS 13.5 psf

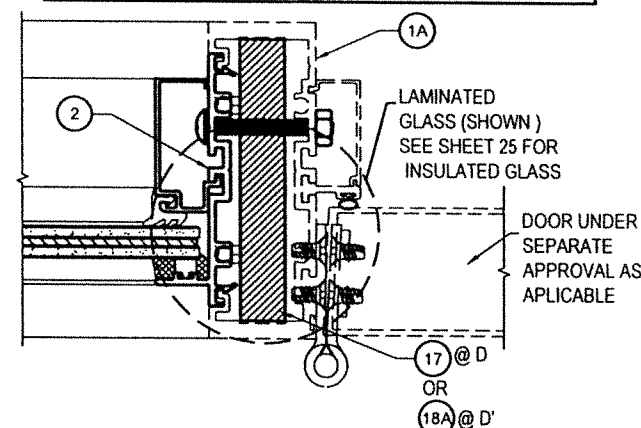


LAMINATED GLASS (SHOWN)
SEE SHEET 25 FOR INSULATED GLASS

**D
&
D'**

INTERIOR MULLION OR DOOR
JAMB MULLION D W/(1) OR (1A)
+ (2) + (17) OR INTERIOR
MULLION OR DOOR JAMB
MULLION D' W/(1) OR (1A) + (2)
+ (18A)

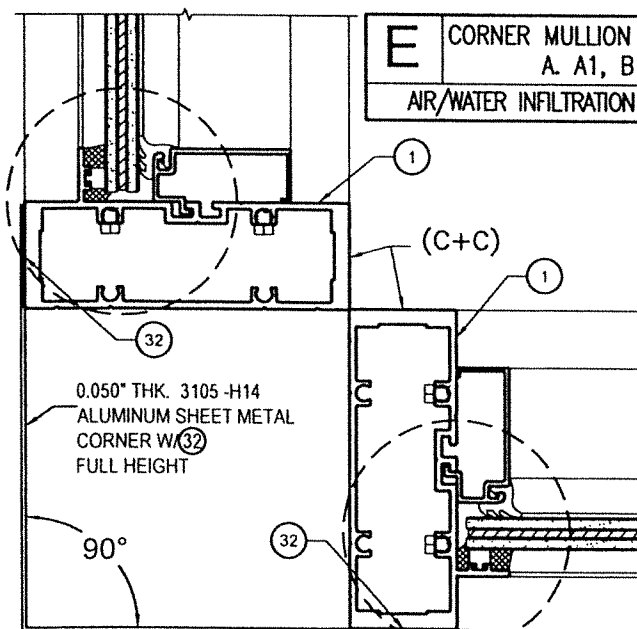
AIR/WATER INFILTRATION IS 13.5 psf



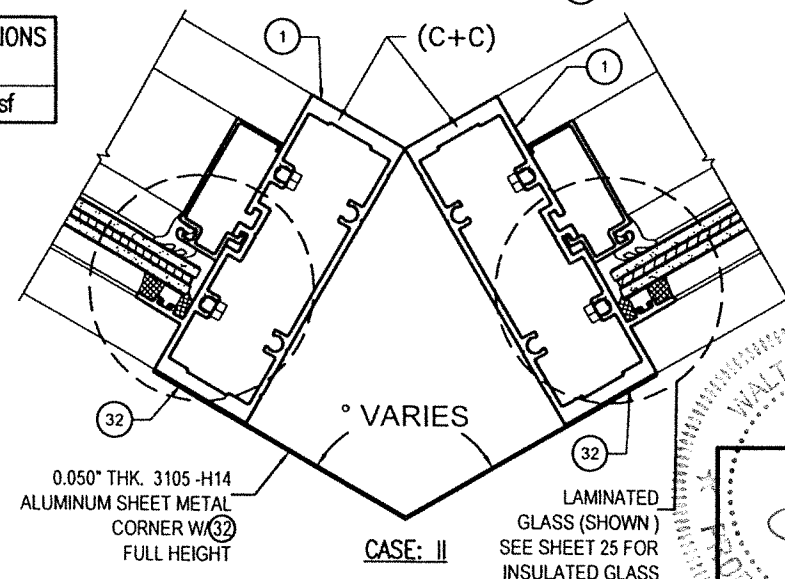
LAMINATED
GLASS (SHOWN)
SEE SHEET 25 FOR
INSULATED GLASS

DOOR UNDER
SEPARATE
APPROVAL AS
APPLICABLE

17 @ D
OR
18A @ D'



CASE: I



CASE: II

OPTIONAL SYSTEM #2

MAXIMUM MULLION SPAN "L"(FT) SCHEDULE FOR A GIVEN DESIGN
PRESSURE RATING AND A GIVEN MULLION EFFECTIVE SPACING "b"

MAXIMUM ASD DESIGN PRESSURE RAITING (psf)	EFFECTIVE SPACING FOR E (C+C)		EFFECTIVE SPACING FOR C, D & D'		C & D'		D	MAXIMUM ASD DESIGN PRESSURE RAITING (psf)	EFFECTIVE SPACING FOR E (C+C)		EFFECTIVE SPACING FOR C, D & D'		C & D'	
	"b" (Ft-in)	"L" (Ft-in)	"b" (Ft-in)	"L" (Ft-in)	"L" (Ft-in)	"L" (Ft-in)			"b" (Ft-in)	"L" (Ft-in)	"b" (Ft-in)	"L" (Ft-in)	"L" (Ft-in)	"L" (Ft-in)
47.8	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	11'-8"	120.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	10'-11"
	2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	12'-0"	11'-2"		2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	9'-7"
	2'-6"	12'-0"	5'-0"	5'-0"	12'-0"	12'-0"	10'-5"		2'-6"	11'-7"	5'-0"	5'-0"	12'-0"	8'-7"
	-	-	-	-	-	-	9'-10"		-	-	-	-	-	7'-10"
50.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	11'-8"	125.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	10'-9"
	2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	12'-0"	11'-1"		2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	9'-5"
	2'-6"	12'-0"	5'-0"	5'-0"	12'-0"	12'-0"	10'-3"		2'-6"	11'-5"	5'-0"	5'-0"	12'-0"	8'-5"
	-	-	-	-	-	-	9'-9"		-	-	-	-	-	7'-8"
55.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	11'-8"	130.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	10'-7"
	2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	12'-0"	10'-9"		2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	9'-3"
	2'-6"	12'-0"	5'-0"	5'-0"	11'-10"	11'-10"	9'-6"		2'-6"	11'-3"	5'-0"	5'-0"	11'-10"	8'-3"
	-	-	-	-	-	-	9'-5"		-	-	-	-	-	7'-6"
60.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	11'-8"	135.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	10'-6"
	2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	12'-0"	10'-5"		2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	9'-0"
	2'-6"	12'-0"	5'-0"	5'-0"	11'-6"	11'-6"	9'-8"		2'-6"	11'-1"	5'-0"	5'-0"	11'-6"	8'-1"
	-	-	-	-	-	-	9'-2"		-	-	-	-	-	7'-4"
65.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	11'-2"	140.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	10'-3"
	2'-0"	12'-0"	4'-0"	4'-0"	12'-0"	12'-0"	10'-2"		2'-0"	11'-10"	4'-0"	4'-0"	12'-0"	8'-10"
	2'-6"	12'-0"	5'-0"	5'-0"	11'-3"	11'-3"	9'-5"		2'-6"	11'-0"	5'-0"	5'-0"	11'-3"	8'-0"
	-	-	-	-	-	-	8'-11"		-	-	-	-	-	7'-3"
70.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	10'-10"	145.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	10'-0"
	2'-0"	12'-0"	4'-0"	4'-0"	11'-9"	11'-9"	9'-10"		2'-0"	11'-8"	4'-0"	4'-0"	11'-9"	8'-9"
	2'-6"	12'-0"	5'-0"	5'-0"	10'-11"	10'-11"	9'-2"		2'-6"	10'-10"	5'-0"	5'-0"	10'-11"	7'-10"
	-	-	-	-	-	-	8'-8"		-	-	-	-	-	7'-2"
75.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	10'-7"	150.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	9'-11"
	2'-0"	12'-0"	4'-0"	4'-0"	11'-6"	11'-6"	9'-8"		2'-0"	11'-7"	4'-0"	4'-0"	12'-0"	8'-7"
	2'-6"	12'-0"	5'-0"	5'-0"	10'-8"	10'-8"	9'-0"		2'-6"	11'-9"	5'-0"	5'-0"	10'-8"	7'-7"
	-	-	-	-	-	-	8'-6"		-	-	-	-	-	7'-0"
80.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	10'-5"	155.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	9'-9"
	2'-0"	12'-0"	4'-0"	4'-0"	11'-3"	11'-3"	9'-6"		2'-0"	11'-5"	4'-0"	4'-0"	11'-3"	8'-5"
	2'-6"	12'-0"	5'-0"	5'-0"	10'-6"	10'-6"	8'-8"		2'-6"	10'-7"	5'-0"	5'-0"	10'-6"	7'-6"
	-	-	-	-	-	-	8'-4"		-	-	-	-	-	-
85.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	12'-0"	10'-2"	160.0	1'-6"	12'-0"	3'-0"	3'-0"	12'-0"	9'-7"
	2'-0"	12'-0"	4'-0"	4'-0"	11'-4"	11'-4"	9'-5"		2'-0"	11'-4"	4'-0"	4'-0"	11'-4"	8'-4"
	2'-6"	12'-0"	5'-0"	5'-0"	10'-2"	10'-2"	8'-5"		2'-6"	10'-6"	5'-0"	5'-0"	10'-2"	7'-5"
	-	-	-	-	-	-	8'-2"		-	-	-	-	-	-
90.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-11"	11'-11"	10'-0"	165.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-11"	9'-5"
	2'-0"	12'-0"	4'-0"	4'-0"	10'-10"	10'-10"	9'-1"		2'-0"	11'-3"	4'-0"	4'-0"	10'-10"	8'-2"
	2'-6"	12'-0"	5'-0"	5'-0"	9'-11"	9'-11"	8'-2"		2'-6"	10'-4"	5'-0"	5'-0"	9'-11"	7'-4"
	-	-	-	-	-	-	8'-0"		-	-	-	-	-	-
95.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-9"	11'-9"	-	170.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-9"	9'-4"
	2'-0"	12'-0"	4'-0"	4'-0"	10'-6"	10'-6"	-		2'-0"	11'-11"	4'-0"	4'-0"	10'-6"	8'-1"
	2'-6"	12'-0"	5'-0"	5'-0"	9'-8"	9'-8"	-		2'-6"	10'-2"	5'-0"	5'-0"	9'-8"	7'-2"
	-	-	-	-	-	-	-		-	-	-	-	-	-
100.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-7"	11'-7"	-	175.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-7"	9'-2"
	2'-0"	12'-0"	4'-0"	4'-0"	10'-6"	10'-6"	-		2'-0"	11'-0"	4'-0"	4'-0"	10'-6"	7'-11"
	2'-6"	12'-0"	5'-0"	5'-0"	9'-5"	9'-5"	-		2'-6"	10'-0"	5'-0"	5'-0"	9'-5"	7'-1"
	-	-	-	-	-	-	-		-	-	-	-	-	-
105.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-5"	11'-5"	-	180.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-5"	9'-0"
	2'-0"	12'-0"	4'-0"	4'-0"	10'-3"	10'-3"	-		2'-0"	10'-10"	4'-0"	4'-0"	10'-3"	7'-10"
	2'-6"	12'-0"	5'-0"	5'-0"	9'-2"	9'-2"	-		2'-6"	9'-10"	5'-0"	5'-0"	9'-2"	7'-0"
	-	-	-	-	-	-	-		-	-	-	-	-	-
110.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-2"	11'-2"	-							
	2'-0"	12'-0"	4'-0"	4'-0"	10'-0"	10'-0"	-							
	2'-6"	12'-0"	5'-0"	5'-0"	9'-0"	9'-0"	-							
	-	-	-	-	-	-	-							
115.0	1'-6"	12'-0"	3'-0"	3'-0"	11'-0"	11'-0"	-							
	2'-0"	12'-0"	4'-0"	4'-0"	9'-9"	9'-9"	-							
	2'-6"	11'-9"	5'-0"	5'-0"	8'-9"	8'-9"	-							
	-	-	-	-	-	-	-							

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

WALTER A. TILIT JR., P.E.
FLORIDA Lic. # 44167

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

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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:

08/30/2023
DATE

23-204
DRAWING No

SHEET 29 OF 43

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. $f_c = 2.730$ ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. ($F_y = 33$ Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY) ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

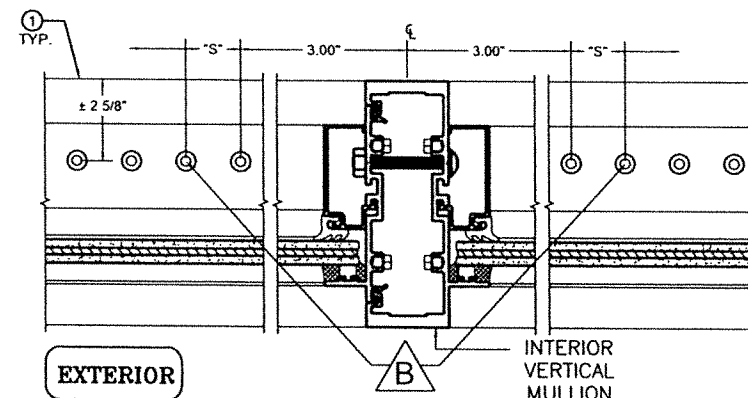
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD ($G=0.55$) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB, CORNER & JAMB MULLION'S HEAD/SILL CONNECTIONS

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)	MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 1/4" MAX. SHIM SPACE									
		n = 4		n = 6		n = 8		n = 10		n = 12	
		CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD
JAMB OR CORNER MULLION	INTERIOR OR DOOR JAMB MULLION	A & B	C	A & B	C	A & B	C	A & B	C	A & B	C
7'-0"	1'-6"	107.8	67.4	161.7	101.0	180.0	135.0	180.0	168.5	180.0	180.0
	-	92.4	57.8	138.9	86.6	180.0	115.5	180.0	144.4	180.0	173.3
	2'-0"	80.9	50.6	121.3	75.8	161.7	101.1	180.0	126.3	180.0	151.6
	-	71.9	44.9	107.8	67.4	143.8	89.8	180.0	112.3	180.0	134.8
	2'-6"	64.7	40.4	97.0	60.6	129.4	80.9	161.7	101.1	180.0	121.3
	-	58.8	36.8	88.2	55.1	117.6	73.5	147.0	91.9	176.0	110.0
7'-6"	-	53.9	33.7	80.9	50.6	107.8	67.4	134.8	84.3	161.7	101.1
	1'-6"	100.0	62.7	150.0	94.0	180.0	125.3	180.0	156.7	180.0	180.0
	-	85.9	53.8	128.0	80.6	180.0	107.5	180.0	134.3	180.0	161.2
	2'-0"	75.2	47.1	112.8	70.6	150.4	94.1	180.0	117.8	180.0	141.2
	-	66.9	41.8	100.2	62.6	133.7	83.3	180.0	104.2	180.0	125.0
	2'-6"	60.2	37.6	90.2	56.4	120.3	75.2	150.4	94.0	180.0	112.8
8'-0"	-	54.7	34.2	82.0	51.3	109.3	68.4	136.7	85.6	163.7	102.7
	-	50.1	31.3	75.2	47.0	100.3	62.6	125.4	78.3	150.3	93.9
	1'-6"	94.0	58.9	141.0	88.4	180.0	117.9	180.0	147.3	180.0	176.8
	-	80.7	50.6	121.1	75.9	161.7	101.1	180.0	126.4	180.0	151.7
	2'-0"	70.7	44.3	106.0	66.4	141.4	88.5	176.7	110.7	180.0	132.8
	-	62.9	39.3	94.2	58.9	125.7	78.6	157.2	98.2	180.0	117.9
8'-6"	-	56.6	35.3	84.8	53.0	113.1	70.7	141.4	88.4	169.8	106.0
	-	51.4	32.4	77.1	48.2	102.7	64.3	128.5	80.4	153.9	96.4
	-	47.1	29.4	70.7	44.1	94.2	58.8	117.9	73.6	141.3	88.3
	1'-6"	88.4	55.4	132.5	83.0	177.6	110.7	180.0	138.4	180.0	166.1
	-	75.9	47.6	113.8	71.3	152.0	95.1	180.0	118.9	180.0	142.7
	2'-0"	66.5	41.6	99.6	62.5	132.9	83.3	166.5	104.1	180.0	124.9
9'-0"	-	59.1	36.9	88.5	55.4	118.2	73.9	147.8	92.4	177.6	110.8
	2'-6"	53.2	33.2	79.7	49.8	106.3	66.4	133.2	83.0	159.6	99.5
	-	48.3	30.2	72.5	45.3	96.5	60.3	120.8	75.4	144.7	90.5
	-	44.3	27.6	66.5	41.5	88.5	55.3	110.8	69.1	132.8	82.9
	1'-6"	83.1	52.1	124.6	78.1	166.9	104.2	180.0	130.2	180.0	156.2
	-	71.3	44.7	107.0	67.1	142.9	89.5	179.7	111.9	180.0	134.2
9'-6"	2'-0"	62.5	39.1	93.6	58.7	124.9	78.2	157.3	97.8	180.0	117.3
	-	55.6	34.7	83.2	52.0	111.1	69.4	138.7	86.7	166.9	104.0
	2'-6"	50.0	31.2	74.0	46.8	99.9	62.4	125.9	78.0	150.0	93.6
	-	45.4	28.4	68.2	42.6	90.7	56.8	113.6	71.0	136.0	83.2
	-	41.6	25.9	62.5	38.9	83.2	51.9	104.1	64.9	124.8	77.8

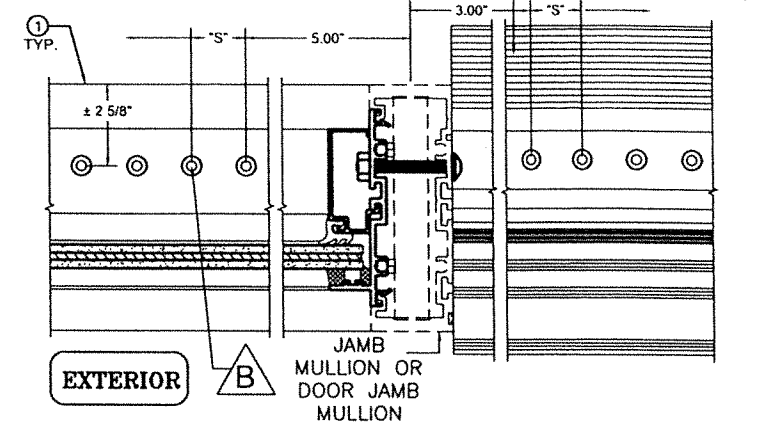
* MAX. POSITIVE A.S.D. DESIGN PRESSURE RATING FOR ALL CASES IS 90.0 psf

OPTIONAL SYSTEM #2



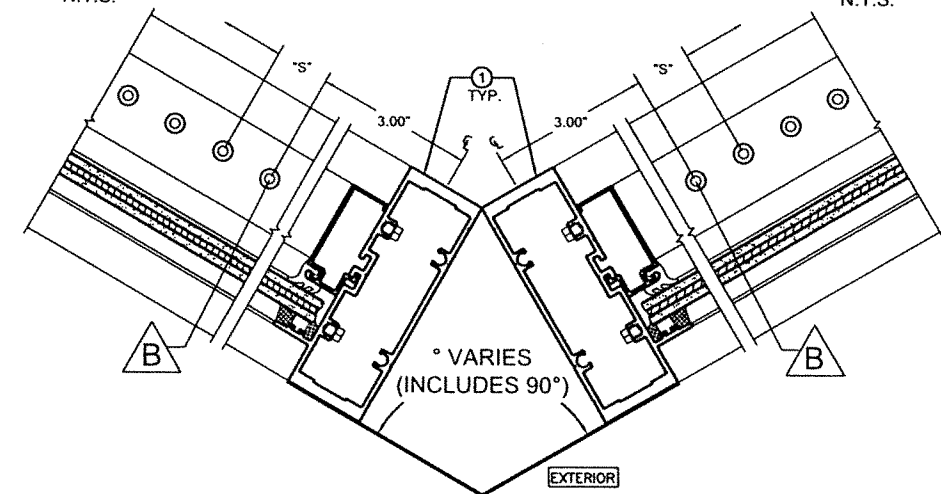
SILL OR HEAD CONNECTION DETAIL @ INTERIOR VERTICAL MULLION

(PLAN VIEW)
N.T.S.



SILL OR HEAD CONNECTION DETAIL @ JAMB OR DOOR JAMB MULLION (SEE SHEET 42)

(PLAN VIEW)
N.T.S.

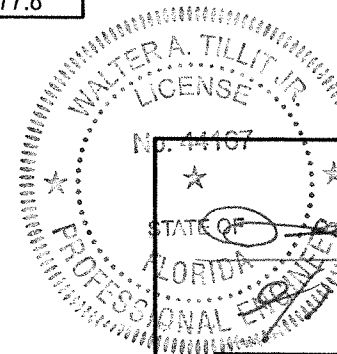


n = EQUALLY NUMBER OF FASTENERS PER CONNECTION AT CORNER EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS
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 20-276 08/30/23 2 - -

W.H
DRAWN BY:
08/30/2023
DATE
23-204
DRAWING No
SHEET 30 OF 43

**MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB,
CORNER & JAMB MULLION'S HEAD/SILL CONNECTIONS**

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 1/4" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
	JAMB OR CORNER MULLION	INTERIOR OR DOOR JAMB MULLION	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C
9'-6"	1'-6"	3'-0"	78.1	49.5	117.1	74.2	156.9	99.0	180.0	123.7	180.0	148.5
	-	3'-6"	67.0	42.5	100.6	63.7	134.3	84.9	170.3	106.2	180.0	127.4
	2'-0"	4'-0"	58.8	37.1	88.0	55.7	117.4	74.3	149.0	98.9	178.8	111.4
	-	4'-6"	52.3	33.0	78.2	49.4	104.4	67.9	130.4	82.4	156.9	98.9
	2'-6"	5'-0"	47.0	29.6	70.4	44.5	93.9	59.3	118.3	74.1	141.0	88.9
	-	5'-6"	42.7	27.0	64.1	40.5	85.3	54.0	106.7	67.5	127.8	80.9
10'-0"	-	6'-0"	39.1	24.6	58.8	36.9	78.2	49.2	97.9	61.5	117.3	73.8
	1'-6"	3'-0"	74.2	47.0	111.2	70.5	149.0	94.0	180.0	117.6	180.0	141.0
	-	3'-6"	63.7	40.4	95.6	60.6	129.4	80.8	161.8	100.9	180.0	121.1
	2'-0"	4'-0"	55.9	35.2	83.6	52.9	111.5	70.5	141.6	88.1	169.9	105.7
	-	4'-6"	49.7	31.4	74.3	47.0	99.2	62.7	123.9	78.4	149.9	94.0
	2'-6"	5'-0"	44.7	28.1	66.9	42.2	90.0	56.2	112.4	70.3	134.0	84.4
10'-6"	-	5'-6"	40.6	25.6	60.9	38.5	81.1	51.3	101.4	64.1	121.4	77.0
	-	6'-0"	37.1	23.4	55.9	35.0	74.4	46.7	93.0	58.4	111.4	70.1
	1'-6"	3'-0"	70.5	44.7	105.6	67.0	141.6	89.3	179.7	111.6	180.0	134.0
	-	3'-6"	60.5	38.4	90.8	57.6	123.2	76.8	153.7	96.0	180.0	115.1
	2'-0"	4'-0"	53.1	33.4	74.7	50.2	105.9	66.9	134.5	83.6	161.4	100.3
	-	4'-6"	47.2	29.8	70.6	44.7	94.2	59.7	117.7	74.6	141.6	89.5
11'-0"	2'-6"	5'-0"	42.5	26.7	63.6	40.0	85.4	53.4	106.8	66.7	127.3	80.8
	-	5'-6"	38.6	24.2	57.9	36.5	77.0	48.6	96.3	60.8	115.3	73.0
	-	6'-0"	35.2	22.2	53.1	33.3	70.7	44.5	88.4	55.6	105.8	66.7
	1'-6"	3'-0"	67.0	42.5	100.3	63.7	134.5	84.9	170.7	106.2	180.0	127.4
	-	3'-6"	57.5	36.5	86.3	54.7	117.0	73.0	146.0	91.2	176.6	109.4
	2'-0"	4'-0"	50.4	31.7	75.4	47.6	100.6	63.5	127.8	79.3	153.3	95.1
11'-6"	-	4'-6"	44.8	28.3	67.1	42.5	89.5	56.6	111.8	70.8	134.5	84.9
	2'-6"	5'-0"	40.4	25.4	59.5	38.0	81.2	50.7	101.5	63.4	120.9	76.1
	-	5'-6"	36.7	23.0	55.0	34.5	73.2	46.0	91.5	57.5	109.5	69.0
	-	6'-0"	33.4	21.1	50.4	31.6	67.2	42.2	84.0	52.7	100.5	63.3
	1'-6"	3'-0"	64.3	40.8	96.3	61.2	129.1	81.6	163.9	102.0	180.0	122.4
	-	3'-6"	55.2	35.0	82.8	52.6	112.3	70.1	140.2	87.6	169.5	105.1
12'-0"	2'-0"	4'-0"	48.4	30.4	72.4	45.6	96.6	60.9	122.7	76.1	147.2	91.3
	-	4'-6"	43.0	27.2	64.4	40.8	85.9	54.3	107.3	67.9	129.1	81.5
	2'-6"	5'-0"	38.8	24.4	57.1	36.6	78.7	48.8	97.4	61.0	116.1	73.2
	-	5'-6"	35.2	22.1	52.8	33.1	71.6	44.2	88.1	55.2	105.1	66.2
	-	6'-0"	32.1	20.3	48.4	30.4	65.6	40.5	80.6	50.6	96.5	60.8
	1'-6"	3'-0"	61.7	39.2	92.4	58.8	123.9	78.4	99.7	98.0	180.0	117.6

* MAX. POSITIVE A.S.D. DESIGN PRESSURE
RATING FOR ALL CASES IS 90.0 psf

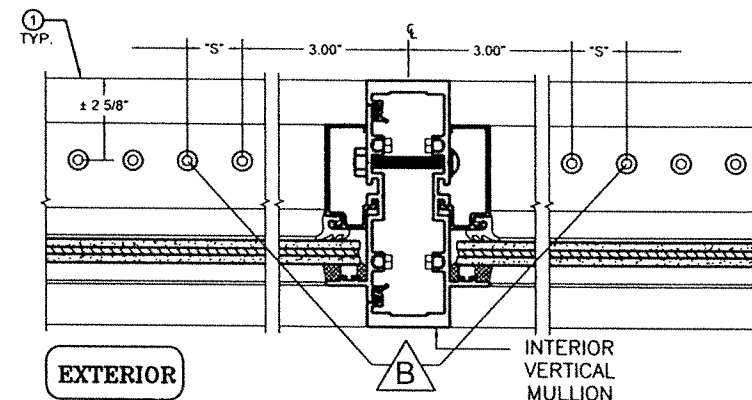
OPTIONAL SYSTEM #2

FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min.
EMBEDMENT INTO POURED CONCRETE (Min. f_c = 2,730 ksi), W/ S = 3" MIN. SPACING &
2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH
MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX
W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. (F_y = 33 Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY)
ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

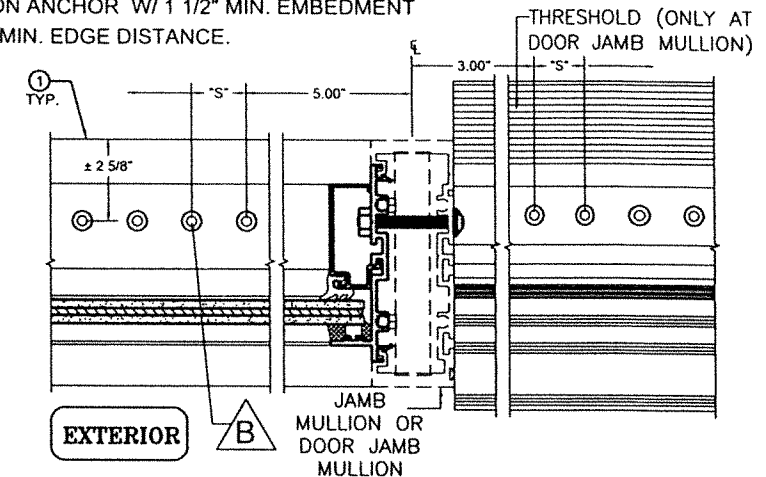
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT
INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

SILL OR HEAD CONNECTION DETAIL @ INTERIOR VERTICAL MULLION

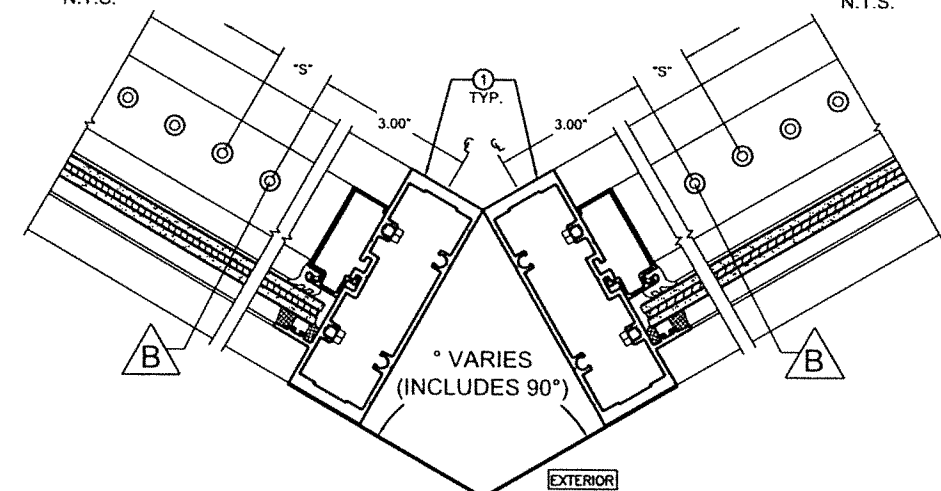
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

SILL OR HEAD CONNECTION DETAIL @ JAMB OR DOOR JAMB MULLION (SEE SHEET 42)

(PLAN VIEW)
N.T.S.

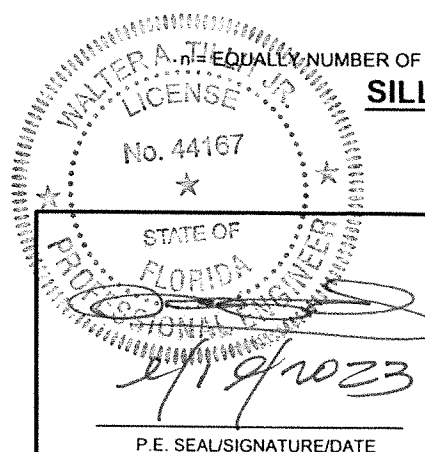


n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT CORNER EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
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
e-mail: tilteco@aol.com
CA-0006719

WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

W.H.
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

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 20-276	08/30/23	2	-	-

SHEET 30A OF 43

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB,
CORNER & JAMB MULLION'S HEAD/SILL CONNECTIONS

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 3/8" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
	JAMB OR CORNER MULLION	INTERIOR OR DOOR JAMB MULLION	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C
7'-0"	1'-6"	3'-0"	78.5	67.5	117.8	101.3	157.1	135.0	180.0	168.8	180.0	180.0
	-	3'-6"	67.3	57.9	101.0	86.8	134.6	115.8	168.3	144.7	180.0	173.6
	2'-0"	4'-0"	58.9	50.7	88.4	76.0	117.8	101.3	147.3	126.6	176.7	152.0
	-	4'-6"	52.3	45.0	78.5	67.5	104.7	90.0	130.9	112.4	157.1	134.9
	2'-6"	5'-0"	47.1	40.5	70.7	60.8	94.2	81.0	117.8	101.3	141.4	121.5
	-	5'-6"	42.8	36.8	64.3	55.2	85.7	73.6	107.1	92.0	128.5	110.4
7'-6"	-	6'-0"	39.3	33.8	58.9	50.7	78.5	67.6	98.2	84.5	117.8	101.4
	1'-6"	3'-0"	73.0	62.8	109.6	94.2	146.1	125.6	180.0	157.0	180.0	180.0
	-	3'-6"	62.6	53.8	93.9	80.8	125.2	107.7	156.5	134.6	180.0	161.5
	2'-0"	4'-0"	54.8	47.1	82.2	70.7	109.6	94.3	137.0	117.8	164.3	141.4
	-	4'-6"	48.6	41.8	73.0	62.7	97.4	83.6	121.7	104.5	146.1	125.4
	2'-6"	5'-0"	43.8	37.7	65.8	56.5	87.6	75.3	109.6	94.2	131.5	113.0
8'-0"	-	5'-6"	39.5	34.0	59.8	51.0	79.7	68.0	97.6	84.9	119.5	101.9
	-	6'-0"	36.5	31.4	54.8	47.1	73.0	62.8	91.3	78.5	109.6	94.2
	1'-6"	3'-0"	68.4	58.8	103.0	88.2	137.3	117.6	171.7	147.1	180.0	176.5
	-	3'-6"	58.8	50.6	88.3	75.9	117.7	101.1	147.1	126.4	176.6	151.7
	2'-0"	4'-0"	51.5	44.3	77.3	66.4	103.0	88.6	128.8	110.7	154.4	132.9
	-	4'-6"	45.7	39.3	68.6	59.0	91.6	78.6	113.2	98.3	137.3	117.9
8'-6"	2'-6"	5'-0"	41.2	35.4	61.9	53.1	82.3	70.9	103.0	88.6	123.6	106.3
	-	5'-6"	37.1	31.9	56.2	47.9	74.9	63.8	91.7	79.8	112.3	95.7
	-	6'-0"	34.3	29.5	51.2	44.2	68.6	59.0	85.8	73.7	103.0	88.5
	1'-6"	3'-0"	64.3	55.3	96.9	82.9	129.1	110.6	161.4	138.2	180.0	165.9
	-	3'-6"	55.3	47.6	83.0	71.3	110.6	95.1	138.3	118.9	166.0	142.7
	2'-0"	4'-0"	47.9	41.2	72.7	61.8	96.8	82.4	121.0	103.0	165.1	123.6
9'-0"	-	4'-6"	43.0	37.0	64.5	55.7	86.1	74.0	106.4	92.5	129.1	110.9
	2'-6"	5'-0"	38.7	33.3	58.2	49.9	77.4	66.6	96.8	83.2	116.2	99.8
	-	5'-6"	34.9	30.0	52.8	45.0	70.4	60.0	86.2	75.0	105.6	90.0
	-	6'-0"	32.2	27.7	48.1	41.5	64.5	55.4	80.7	69.2	96.8	83.0
	1'-6"	3'-0"	60.4	51.9	91.1	77.9	121.4	103.8	151.7	129.9	180.0	155.8
	-	3'-6"	52.0	44.7	78.0	67.1	104.0	89.4	130.0	111.8	156.0	134.2
9'-6"	2'-0"	4'-0"	45.0	38.7	68.3	58.1	91.0	77.4	113.7	96.8	136.3	116.1
	-	4'-6"	40.4	34.7	60.6	52.1	80.9	69.5	100.0	86.9	121.4	104.2
	2'-6"	5'-0"	36.4	31.3	54.7	47.0	72.8	62.6	91.0	78.2	109.2	93.9
	-	5'-6"	32.8	28.2	49.6	42.3	66.2	56.4	81.0	70.5	99.3	84.6
	-	6'-0"	30.3	26.1	45.2	39.1	60.6	52.1	75.9	65.1	91.0	70.2

* MAX. POSITIVE A.S.D. DESIGN PRESSURE
RATING FOR ALL CASES IS 90.0 psf

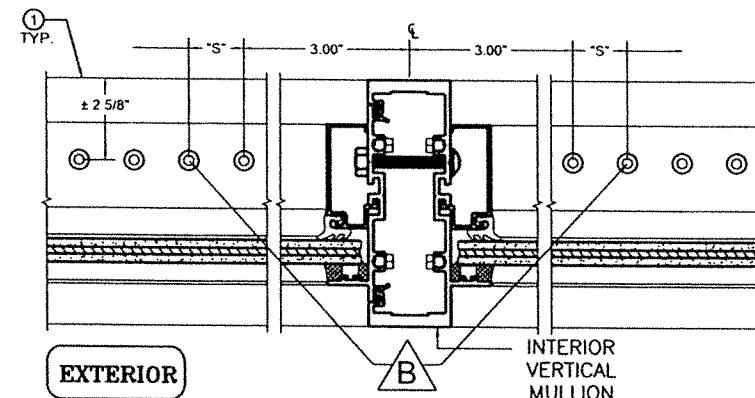
OPTIONAL SYSTEM #2

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min.
EMBEDMENT INTO POURED CONCRETE (Min. $f'_c = 2.730$ ksi), W/ S = 3" MIN. SPACING &
2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH
MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX
W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. ($F_y = 33$ Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY)
ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

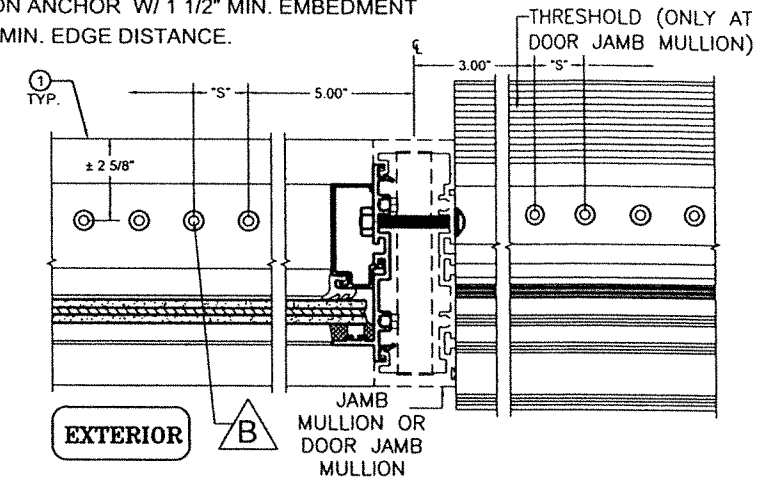
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT
INTO WOOD ($G=0.55$) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

SILL OR HEAD CONNECTION DETAIL @ INTERIOR VERTICAL MULLION

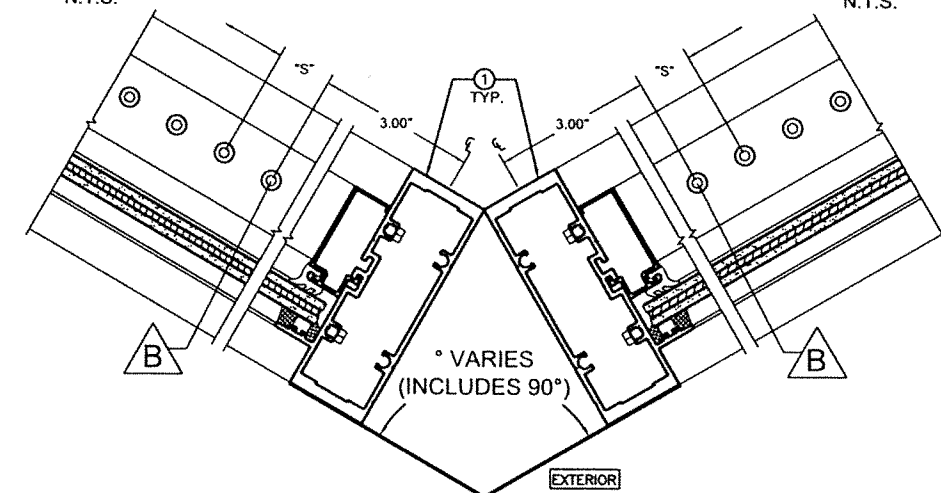
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

SILL OR HEAD CONNECTION DETAIL @ JAMB OR DOOR JAMB MULLION (SEE SHEET 42)

(PLAN VIEW)
N.T.S.

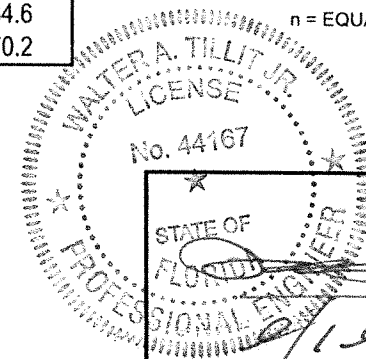


n = EQUALLY NUMBER OF FASTENERS PER CONNECTION AT CORNER EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
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
e-mail: tilteco@aol.com

CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



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:

08/30/2023
DATE

23-204
DRAWING No

SHEET 31 OF 43

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB,
CORNER & JAMB MULLION'S HEAD/SILL CONNECTIONS

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 3/8" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
			CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C
9'-6"	1'-6"	3'-0"	57.4	49.5	86.5	74.3	115.3	99.1	144.1	123.8	173.6	148.6
	-	3'-6"	49.4	42.5	74.1	63.7	98.8	85.0	123.5	106.2	148.2	127.5
	2'-0"	4'-0"	42.8	36.8	64.9	55.2	86.5	73.6	108.0	92.0	129.5	110.4
	-	4'-6"	38.4	33.0	57.6	49.5	76.9	66.0	95.0	82.6	115.3	99.1
	2'-6"	5'-0"	34.6	29.8	52.0	44.6	69.2	59.5	86.5	74.4	103.7	89.3
	-	5'-6"	31.1	26.7	47.1	40.0	62.9	53.4	77.0	66.8	94.3	80.1
10'-0"	-	6'-0"	28.8	24.8	42.9	37.2	57.6	49.5	72.1	61.9	86.5	74.3
	1'-6"	3'-0"	54.5	46.9	82.2	70.3	109.5	93.7	136.9	117.2	164.9	140.6
	-	3'-6"	46.9	40.3	70.4	60.5	93.9	80.7	117.3	100.8	140.8	121.0
	2'-0"	4'-0"	40.7	35.0	61.7	52.5	82.8	70.0	102.6	87.5	123.0	105.0
	-	4'-6"	36.5	31.4	54.7	47.1	73.0	62.8	90.3	78.5	109.5	94.2
	2'-6"	5'-0"	32.9	28.3	49.4	42.4	65.7	56.6	82.2	70.7	98.5	84.9
10'-6"	-	5'-6"	29.5	25.4	44.7	38.1	59.8	50.7	73.2	63.4	89.6	76.1
	-	6'-0"	27.4	23.6	40.8	35.3	54.7	47.1	68.5	58.9	82.2	70.7
	1'-6"	3'-0"	51.9	44.6	78.1	67.0	104.0	89.3	130.0	111.6	156.7	133.9
	-	3'-6"	44.6	38.4	66.9	57.5	89.2	76.7	111.4	95.9	133.8	115.1
	2'-0"	4'-0"	38.7	33.3	58.6	49.9	78.1	66.6	97.5	83.2	116.9	99.8
	-	4'-6"	34.7	29.8	52.0	44.8	69.4	59.7	85.8	74.6	95.5	89.5
11'-0"	2'-6"	5'-0"	31.3	26.9	46.9	40.4	62.4	53.8	78.1	67.3	93.6	80.8
	-	5'-6"	28.0	24.1	42.5	36.1	56.8	48.2	69.5	60.2	85.1	72.2
	-	6'-0"	26.0	22.4	38.8	33.5	52.0	44.7	65.1	55.9	78.1	67.1
	1'-6"	3'-0"	49.5	42.6	74.2	63.9	98.8	85.1	123.5	106.4	148.9	127.7
	-	3'-6"	42.4	36.4	63.6	54.7	84.7	72.9	105.8	91.2	127.1	109.4
	2'-0"	4'-0"	36.8	31.6	55.7	47.5	74.2	63.3	92.6	79.1	111.1	94.9
11'-6"	-	4'-6"	33.0	28.4	49.4	42.6	65.9	56.8	81.5	71.0	90.7	85.1
	2'-6"	5'-0"	29.7	25.5	44.6	38.3	59.3	51.1	74.2	63.9	88.9	76.6
	-	5'-6"	26.6	22.9	40.4	34.3	54.0	45.8	66.0	57.2	80.8	68.6
	-	6'-0"	24.7	21.2	36.9	31.9	49.4	42.5	61.8	53.1	74.2	63.7
	1'-6"	3'-0"	47.5	40.9	71.2	61.3	94.8	81.7	118.6	102.1	142.9	122.6
	-	3'-6"	40.7	35.0	61.0	52.5	81.3	70.1	101.6	87.5	122.0	105.0
12'-0"	2'-0"	4'-0"	35.3	30.4	53.4	45.5	71.2	60.7	88.9	75.9	106.7	91.1
	-	4'-6"	31.7	27.3	47.4	40.9	63.3	54.5	78.2	68.1	87.1	81.8
	2'-6"	5'-0"	28.5	24.5	42.8	36.8	56.9	49.0	71.2	61.3	85.3	73.8
	-	5'-6"	25.5	21.9	38.8	32.9	51.8	43.9	62.4	54.8	77.4	65.8
	-	6'-0"	23.7	20.4	35.4	30.6	47.4	40.8	59.3	51.1	71.2	61.1
	3'-0"		45.6	39.2	68.4	58.8	91.0	78.4	103.9	98.0	137.2	117.6
	3'-6"		39.1	33.6	58.6	50.4	78.0	67.3	97.5	84.1	117.2	100.9
	4'-0"		33.9	29.2	51.3	43.7	68.4	58.3	85.3	72.9	102.4	87.5
	4'-6"		30.4	26.1	45.5	39.2	60.8	52.2	75.1	65.4	83.6	78.4
	5'-0"		27.4	23.6	41.1	35.3	54.6	47.1	68.4	58.9	81.9	70.7
	5'-6"		24.5	21.1	37.2	31.6	49.7	42.1	59.9	52.7	74.3	63.2
	6'-0"		22.8	19.6	34.0	29.4	45.5	39.2	56.9	49.0	68.4	58.8

* MAX. POSITIVE A.S.D. DESIGN PRESSURE
RATING FOR ALL CASES IS 90.0 psf

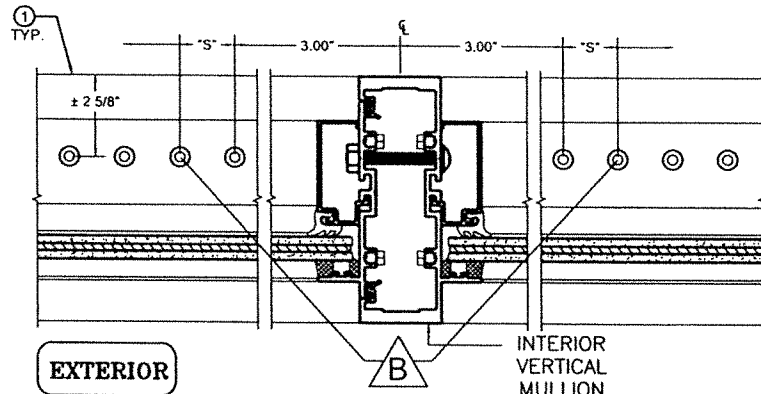
OPTIONAL SYSTEM #2

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min.
EMBEDMENT INTO POURED CONCRETE (Min. $f'_c = 2,730$ ksi), W/ S = 3" MIN. SPACING &
2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH
MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX
W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. ($F_y = 33$ Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY)
ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

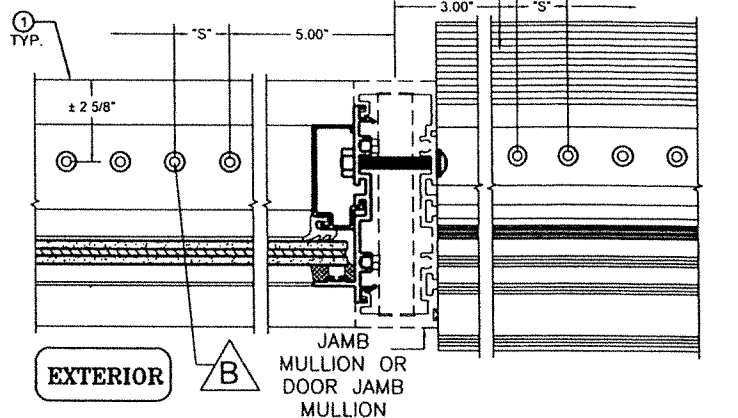
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT
INTO WOOD ($G=0.55$) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

**SILL OR HEAD CONNECTION DETAIL @
INTERIOR VERTICAL MULLION**

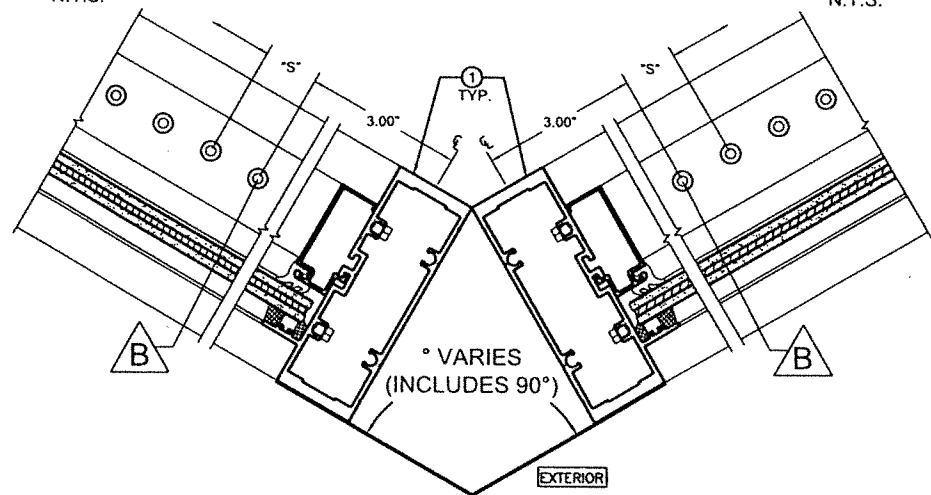
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

**SILL OR HEAD CONNECTION DETAIL @
JAMB OR DOOR JAMB MULLION (SEE SHEET 42)**

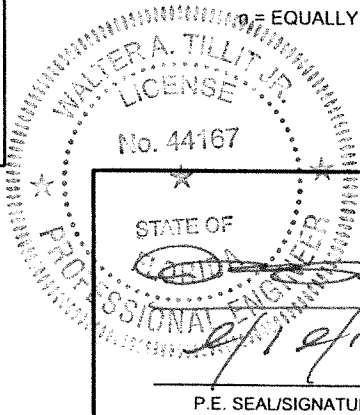
(PLAN VIEW)
N.T.S.



n = EQUALLY NUMBER OF FASTENERS PER CONNECTION AT CORNER EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

W.H
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

SHEET 31 A of 43

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 20-278	08/30/23	2	-	-
---	------------	----------	---	---	---

MAX. ANCHOR SPACING FOR ATTACHED JAMB MULLION "A" TO EXISTING STRUCTURE GIVEN A.S.D DESIGN WIND LOAD AND EFFECTIVE SPACING "b" TO BE USED WHEN FREE STANDING MULLION "A" (NOT ATTACHED TO STRUCTURE) CANNOT MEET THE REQUIRED SPAN "L" FOR A GIVEN A.S.D DESIGN WIND LOAD *

MAXIMUM ASD DESIGN PRESSURE RAITING (psf)**	EFFECTIVE SPACING FOR "A" *** "b" (Ft-in)	MAX. ANCHOR SPACING FOR			
		1/4" SHIM SPACE		3/8" SHIM SPACE	
		CONCRETE, CONCRETE BLOCK, STEEL OR ALUMINUM	WOOD	CONCRETE, CONCRETE BLOCK, STEEL OR ALUMINUM	WOOD
47.8 or LESS	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	15" O.C	15" O.C	15" O.C
50.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	15" O.C	15" O.C	15" O.C
60.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	12" O.C	15" O.C	12" O.C
70.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	12" O.C	12" O.C	12" O.C
80.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-6"	15" O.C	10" O.C	12" O.C	10" O.C
90.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-6"	14" O.C	9" O.C	10" O.C	9" O.C
100.0	1'-6"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-0"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-6"	12" O.C	8" O.C	9" O.C	8" O.C
110.0	1'-6"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-0"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-6"	12" O.C	8" O.C	9" O.C	8" O.C
120.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-6"	10" O.C	7" O.C	8" O.C	7" O.C
130.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
140.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
150.0	1'-6"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-0"	10" O.C	7" O.C	8" O.C	7" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
160.0	1'-6"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-0"	10" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	8" O.C	5" O.C	6" O.C	5" O.C
170.0	1'-6"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-0"	10" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	8" O.C	5" O.C	6" O.C	5" O.C
180.0	1'-6"	7" O.C	7" O.C	7" O.C	7" O.C
	2'-0"	7" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	6" O.C	4" O.C	5" O.C	4" O.C

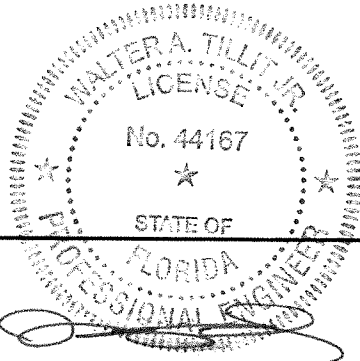


FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

- A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. f_c = 2.730 ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE OR WITH 1 1/4" MIN. EMBEDMENT INTO ASTM C-90 CONCRETE BLOCK WITH S= 6" MIN. SPACING AND 2 1/2" MIN. EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.
- B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. (F_y = 33 Ksi) STEEL OR 1/8" THK. (6063-T6 ALLOY) ALUMINUM W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.
- C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.

- * SEE SHEETS 26 & 38 FOR ANCHOR LOCATION.
- *** MAX. POSITIVE DESIGN PRESSURE RATING 90.0 psf FOR ALL CASES.
- **** SEE SHEET 28 FOR DEFINITION OF EFFECTIVE SPACING "b" FOR ATTACHED JAMB MULLION.

OPTIONAL SYSTEM #2



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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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:

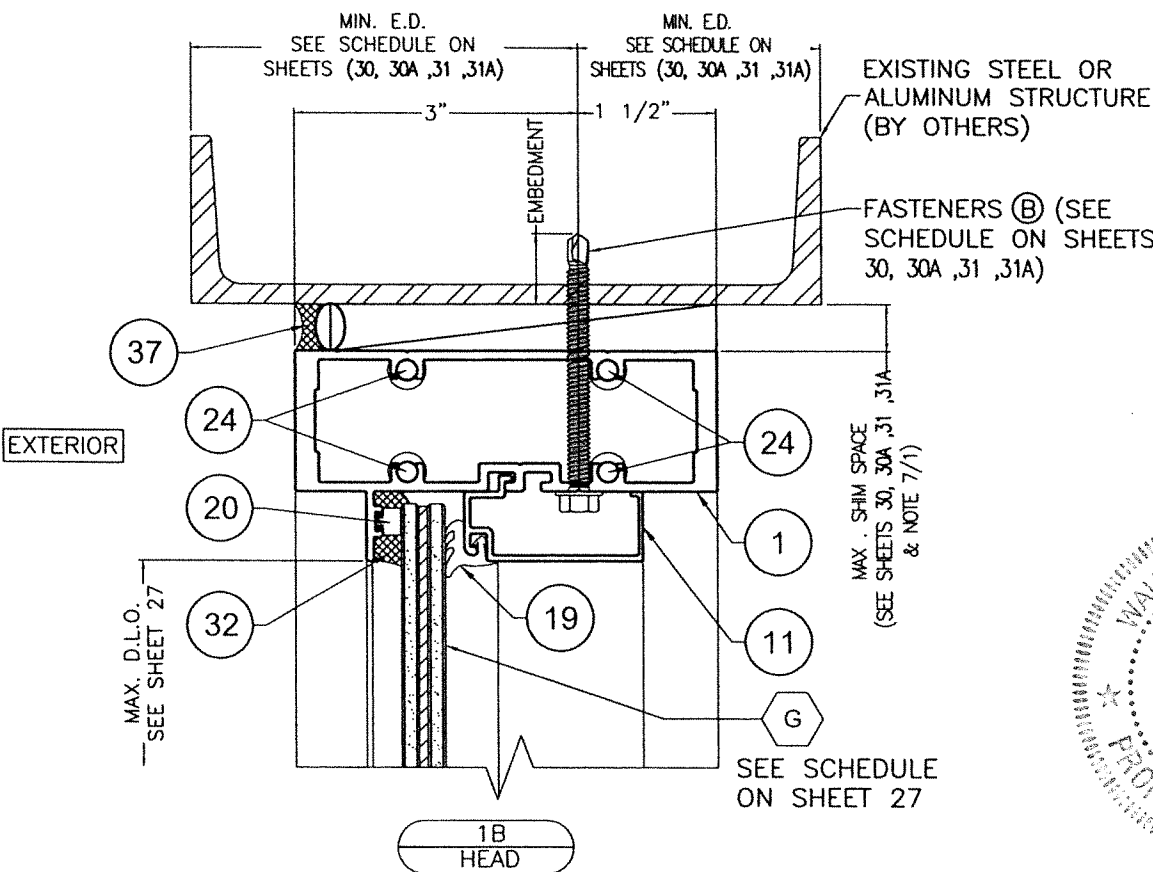
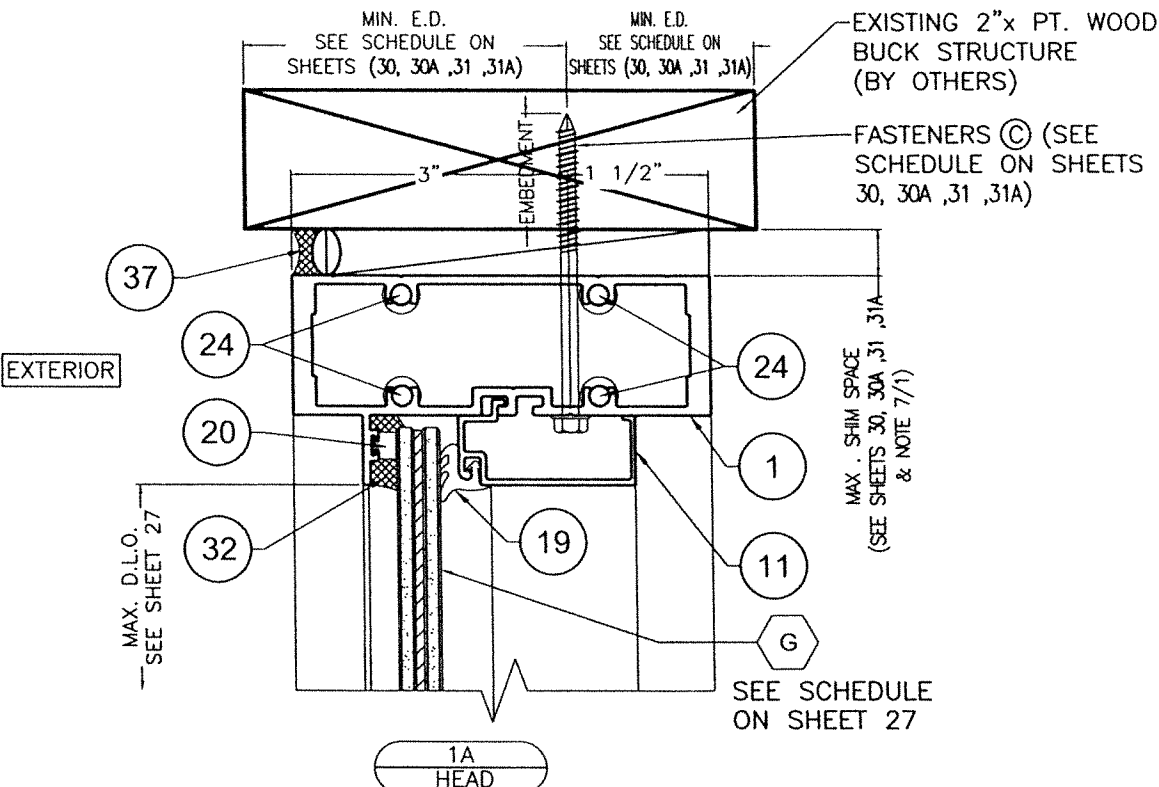
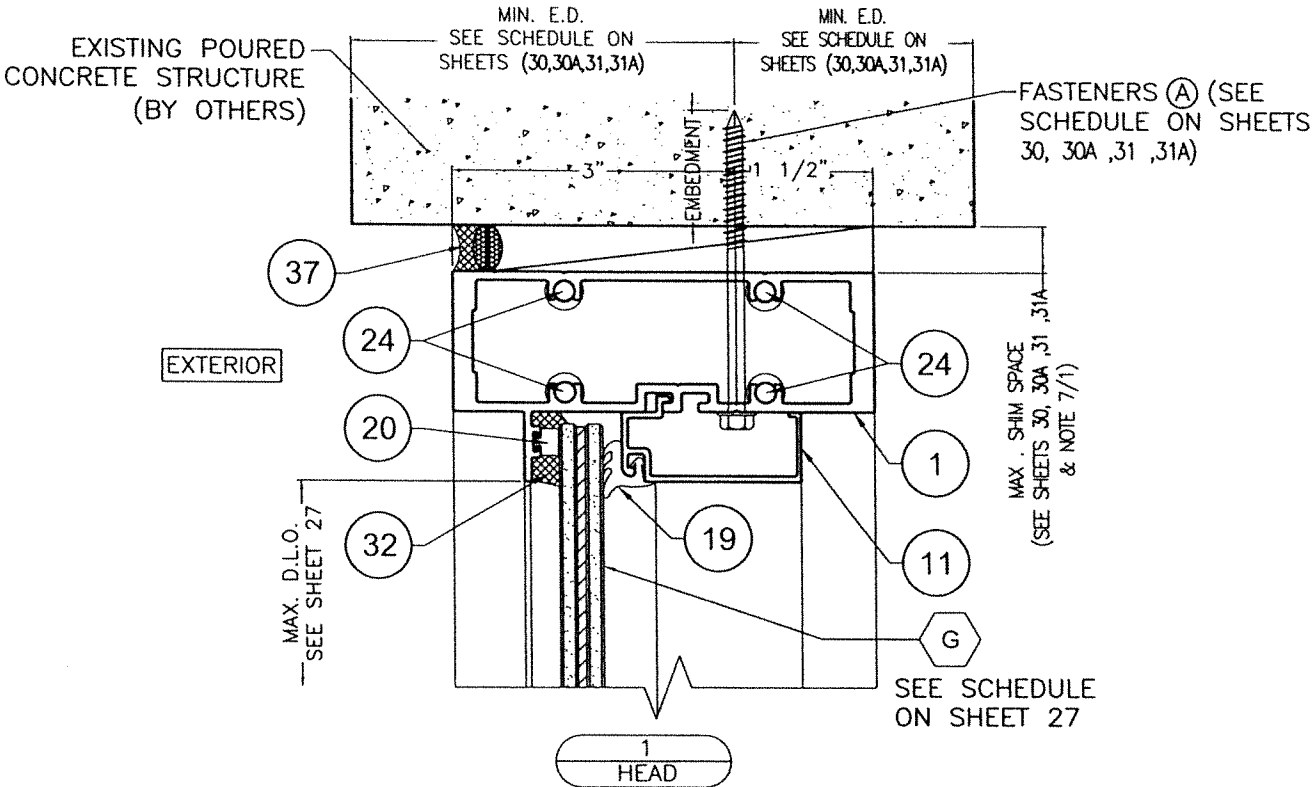
08/30/2023
DATE

23-204
DRAWING No

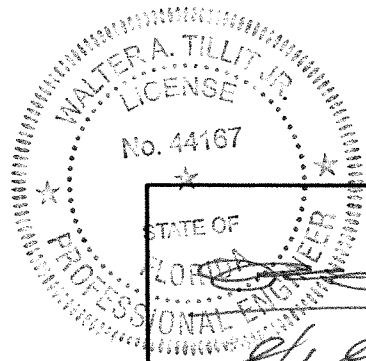
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

SHEET 32 OF 43

HEAD CONNECTION DETAILS W/ LAMINATED GLASS



OPTIONAL SYSTEM #2



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

e-mail: tilteco@aol.com

CA-0006719

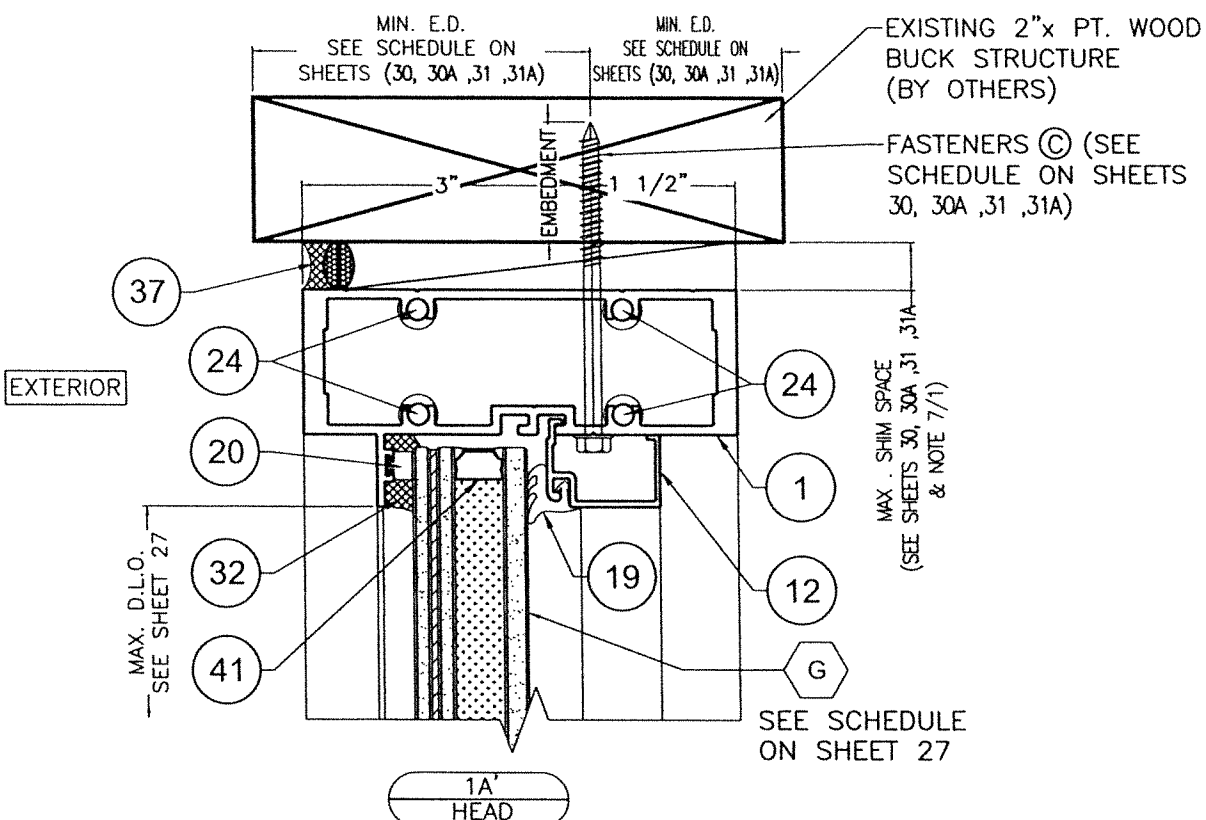
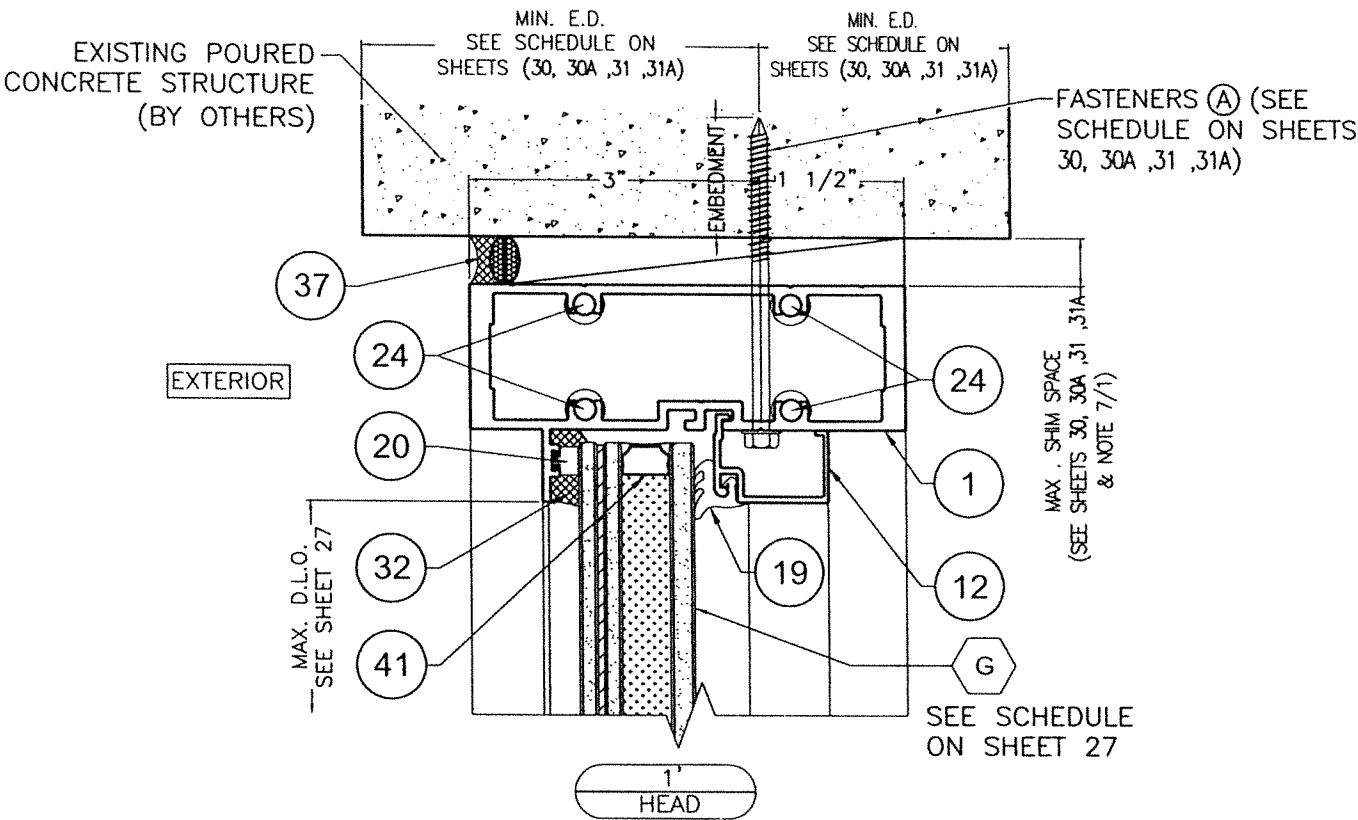
WALTER A. TILLIT Jr., P.E.

FLORIDA Lic. # 44167

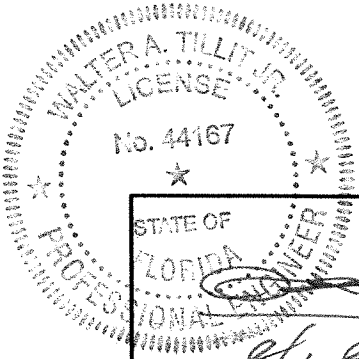
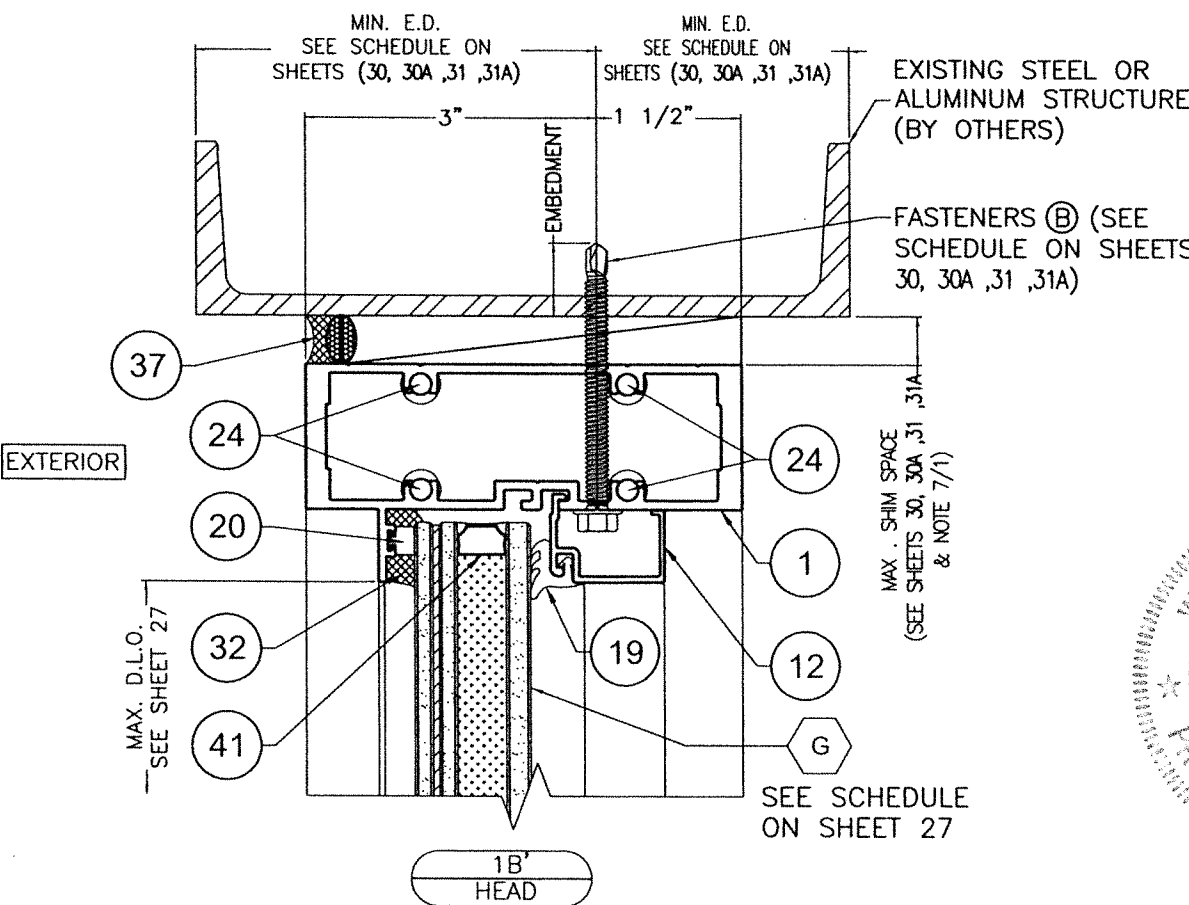
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS				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				08/30/2023 DATE	
				23-204 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

HEAD CONNECTION DETAILS W/ INSULATED GLASS



OPTIONAL SYSTEM #2



P.E. SEAL/SIGNATURE/DATE

© 2023 TILTECO INC.

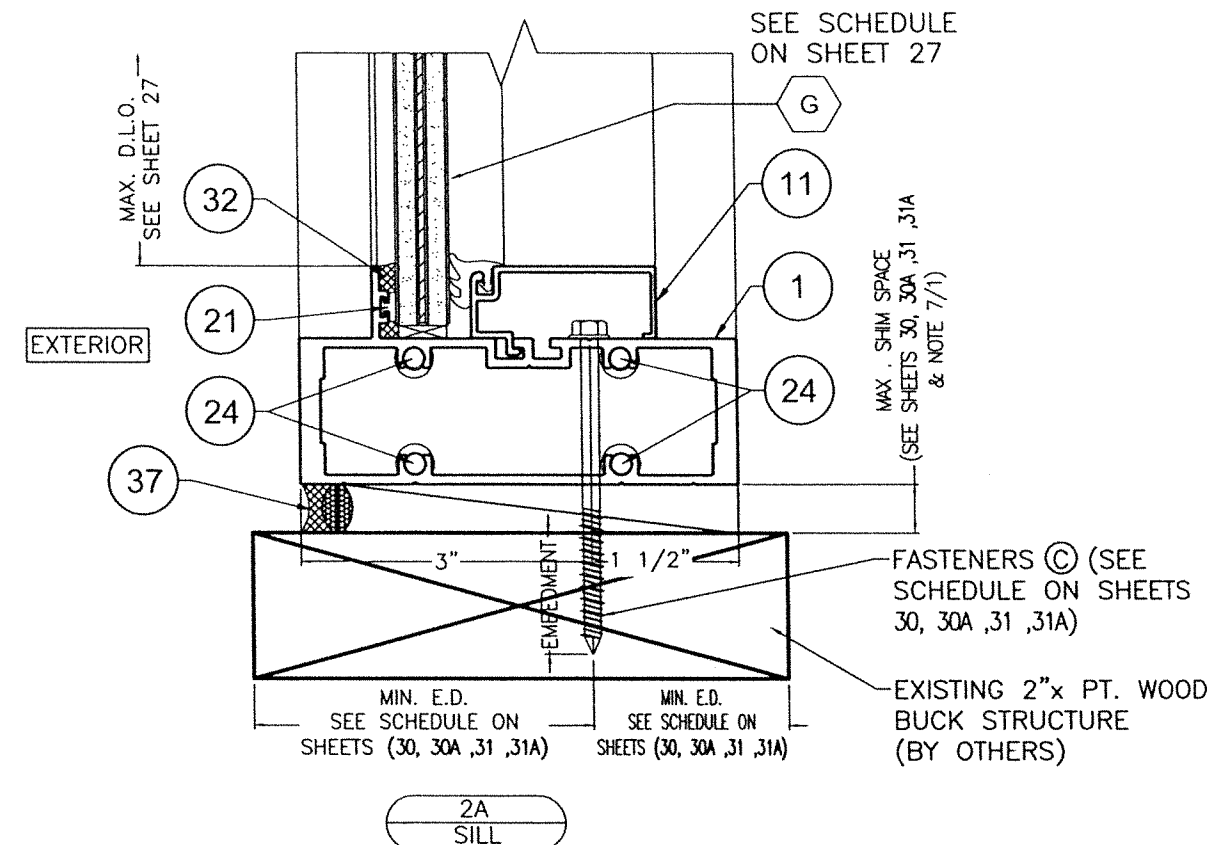
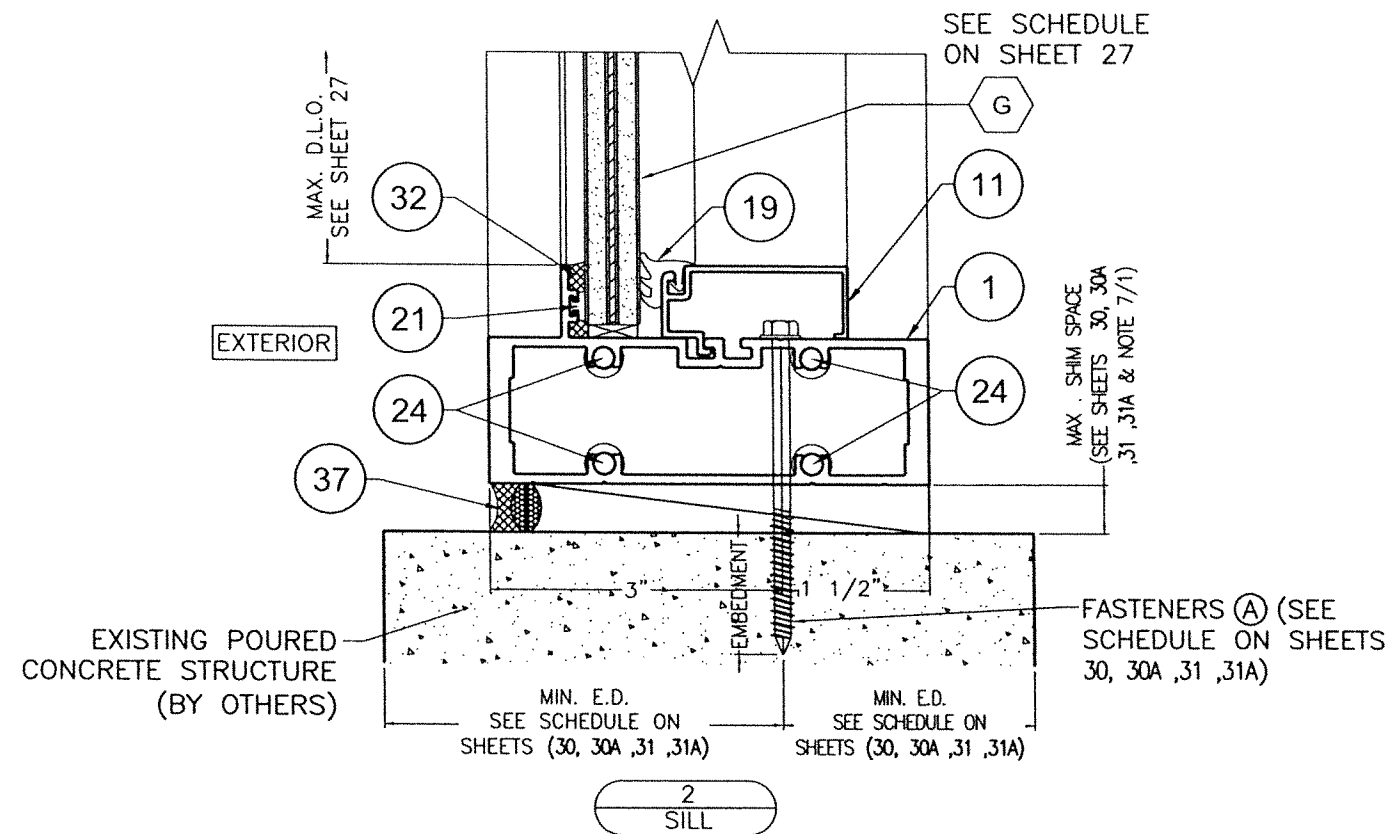
TILTECO INC.

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

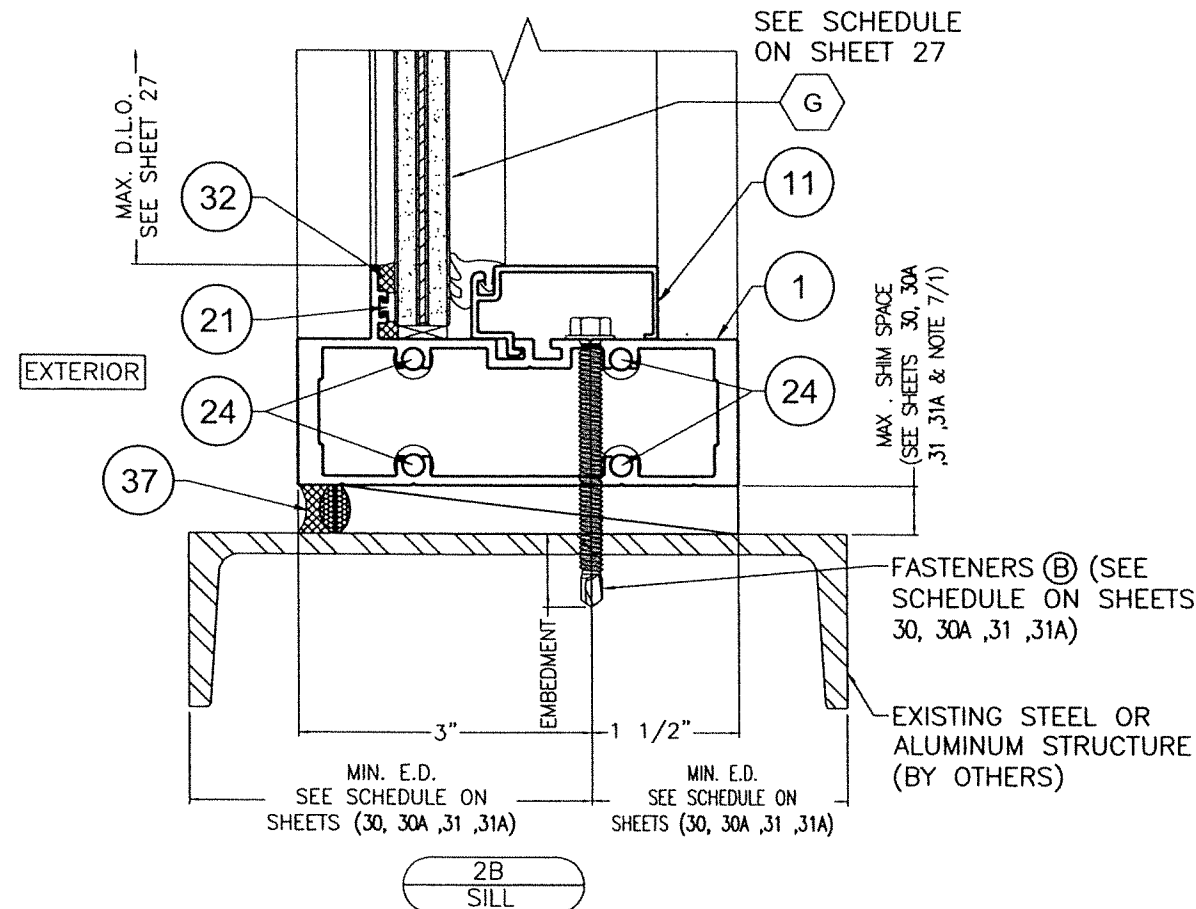
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS				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				08/30/2023 DATE	
				23-204 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

SILL CONNECTION DETAILS W/ LAMINATED GLASS



OPTIONAL SYSTEM #2



WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
e/10/2023
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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

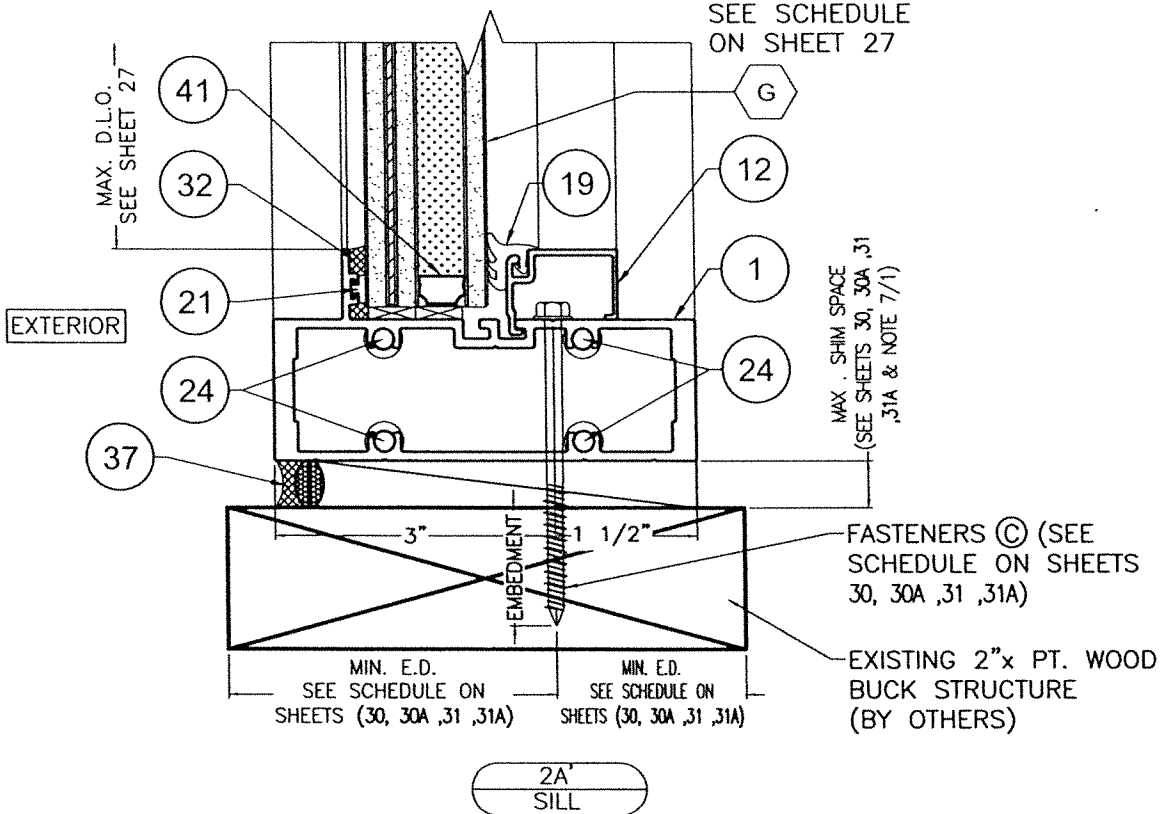
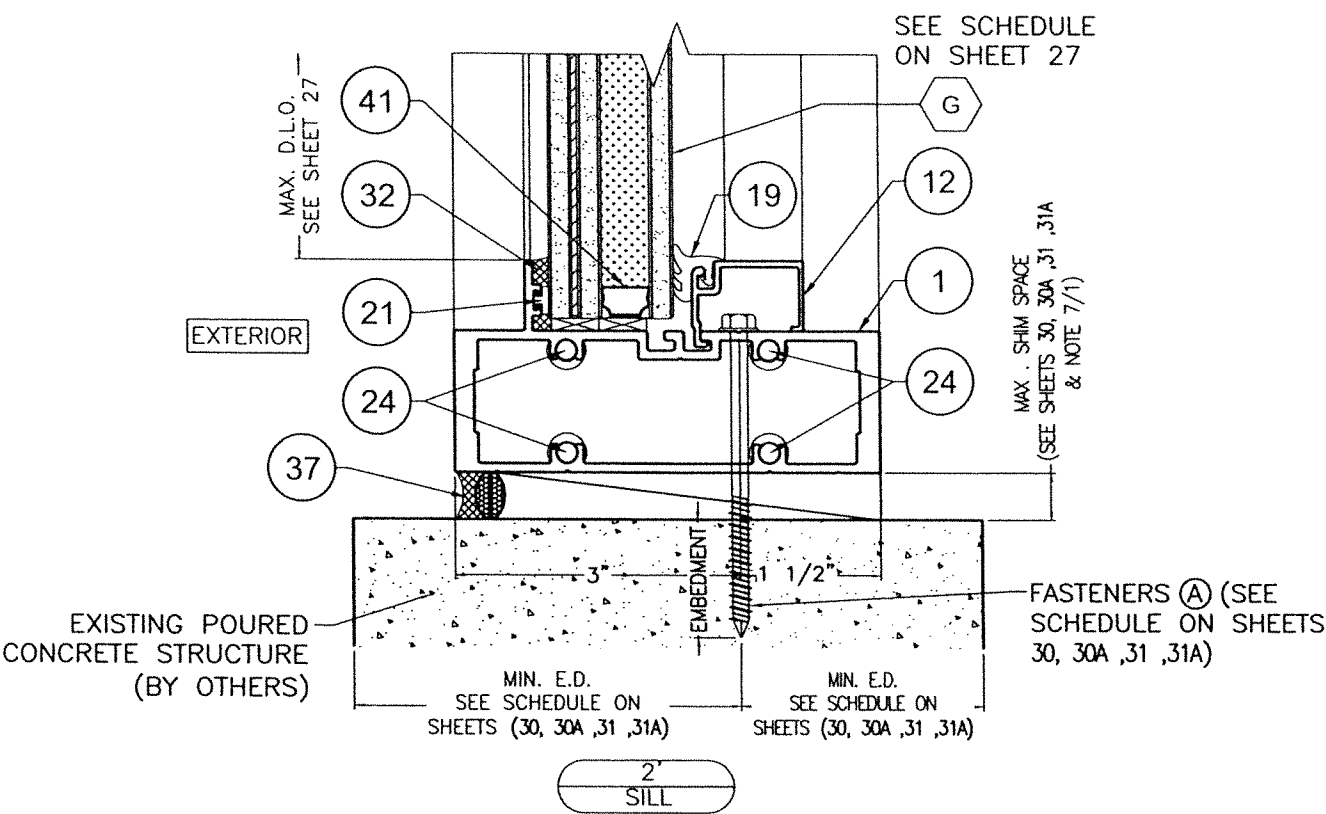
HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

W.H. DRAWN BY:
08/30/2023
DATE
23-204
DRAWING No
SHEET 35 OF 43

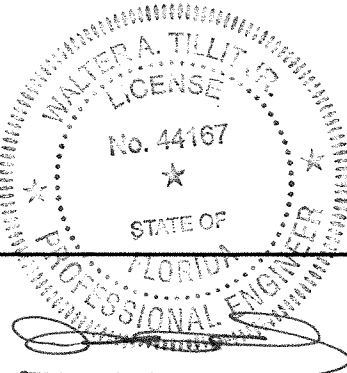
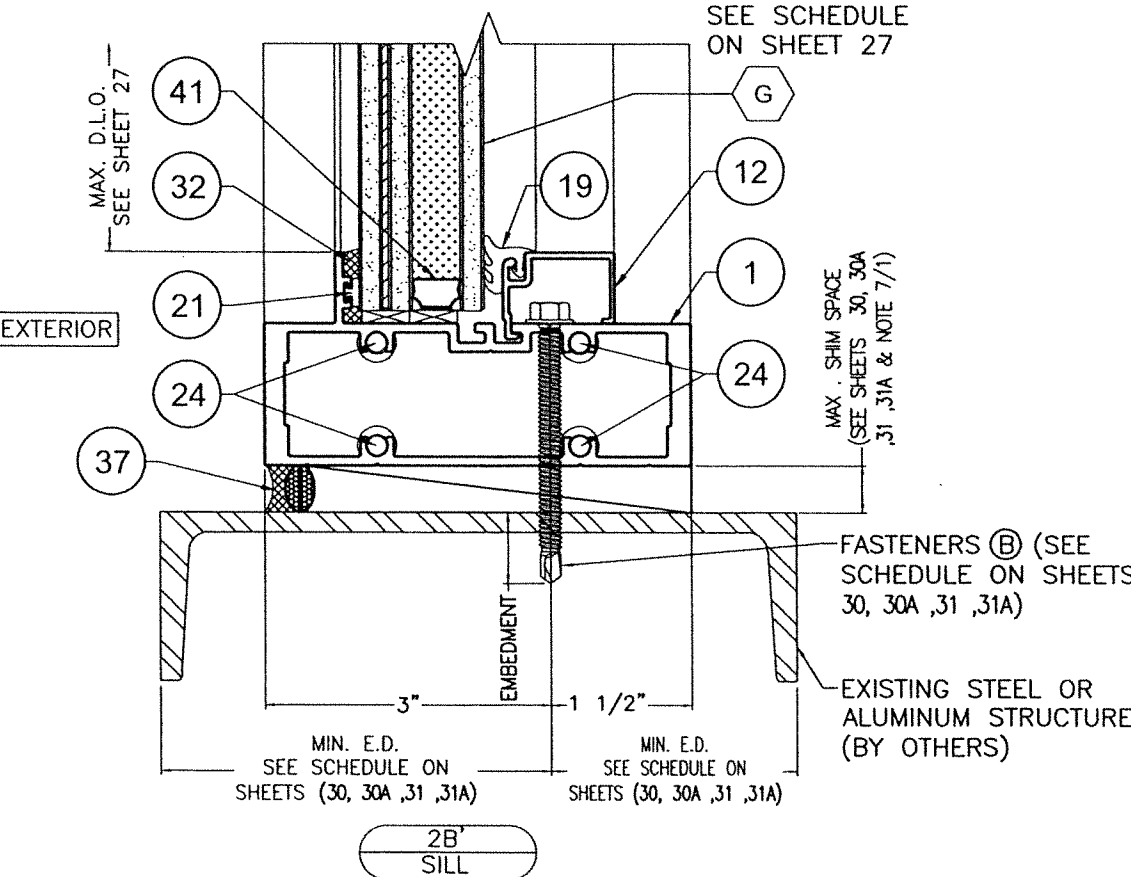
290 WEST 78 ROAD
HIALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

SILL CONNECTION DETAILS W/ INSULATED GLASS



OPTIONAL SYSTEM #2

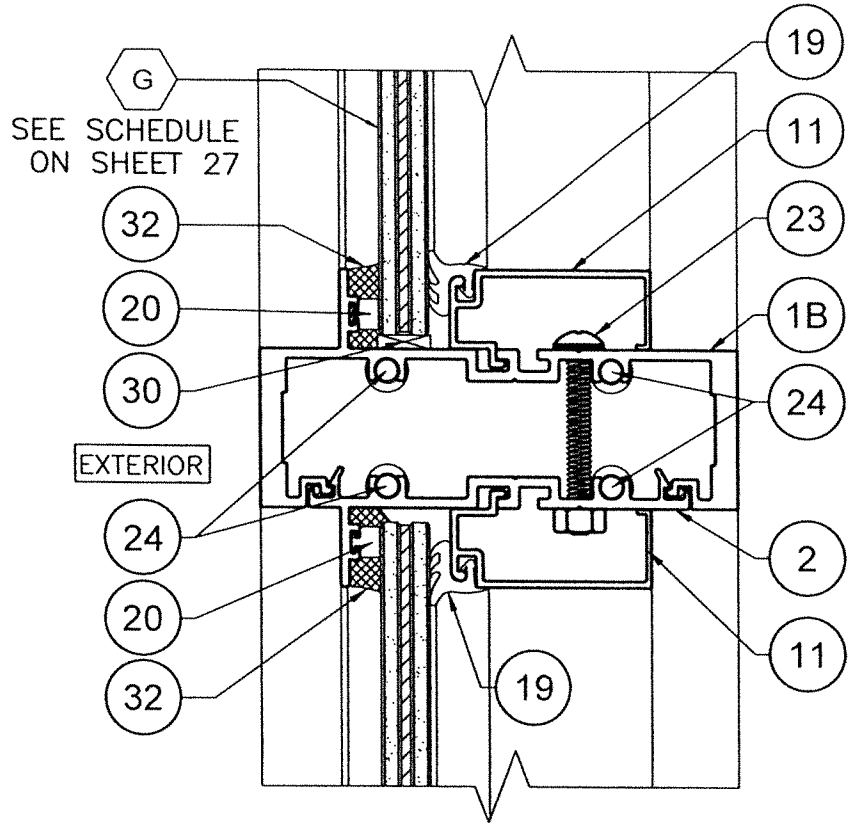


WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE

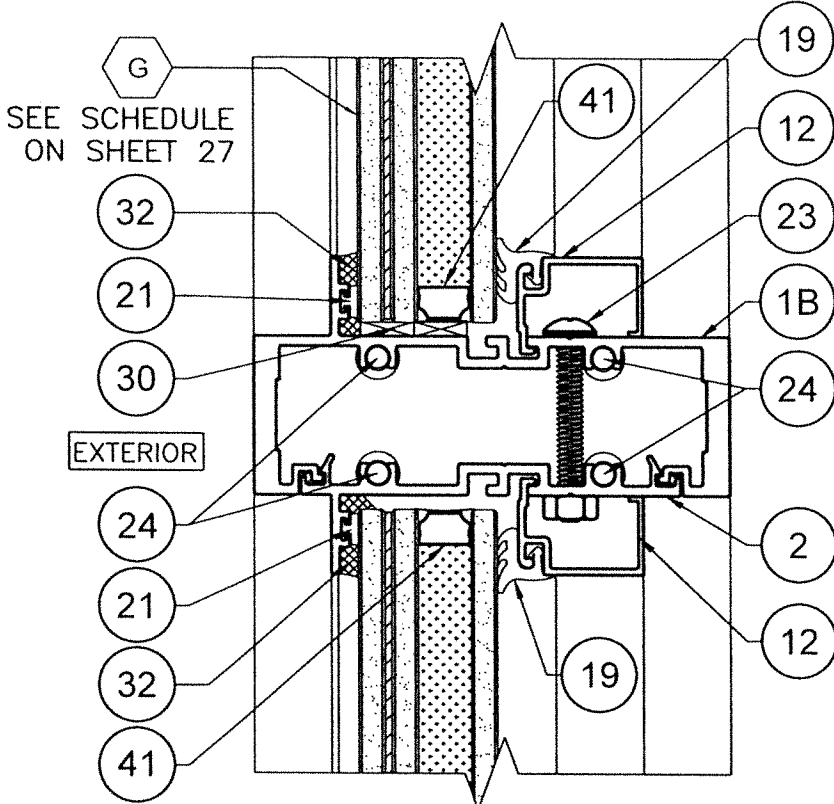
© 2023 TILTECO INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305 - VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 , Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)					
HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS					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					08/30/2023 DATE
					23-204 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-276	08/30/23	2	-	-

HORIZONTAL MULLION DETAILS



3
HORIZONTAL MULLION
W/ LAMINATED GLASS



3'
HORIZONTAL MULLION
W/ INSULATED GLASS

OPTIONAL SYSTEM #2

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
8/1/2023

P.E. SEAL/SIGNATURE/DATE

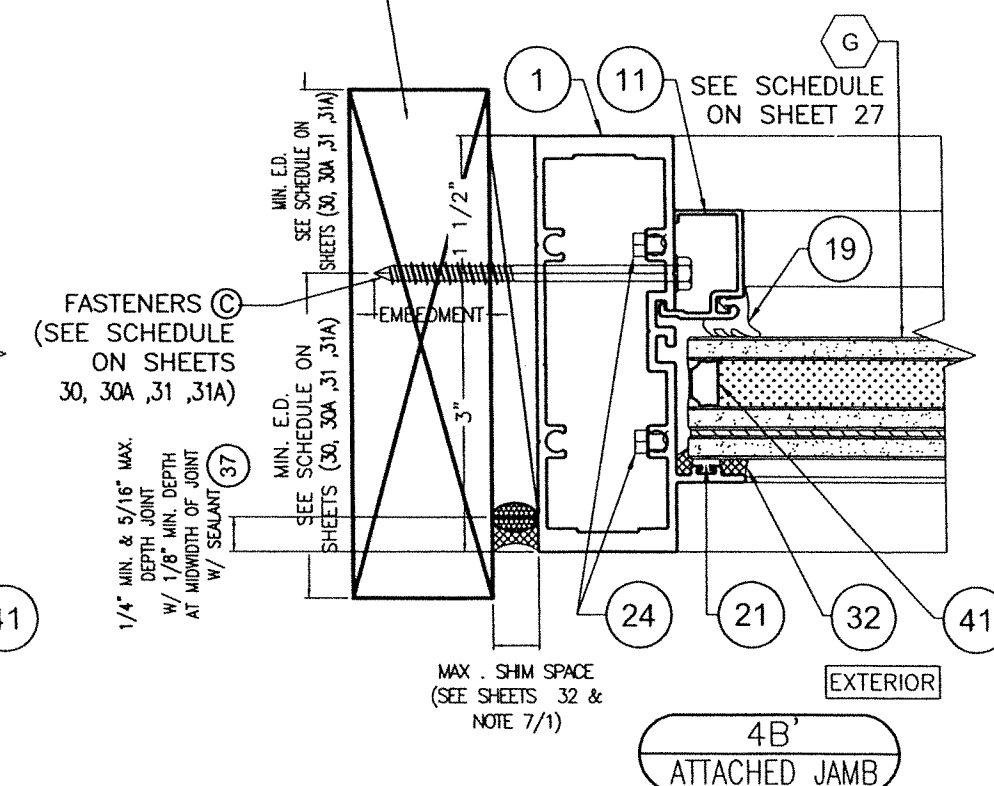
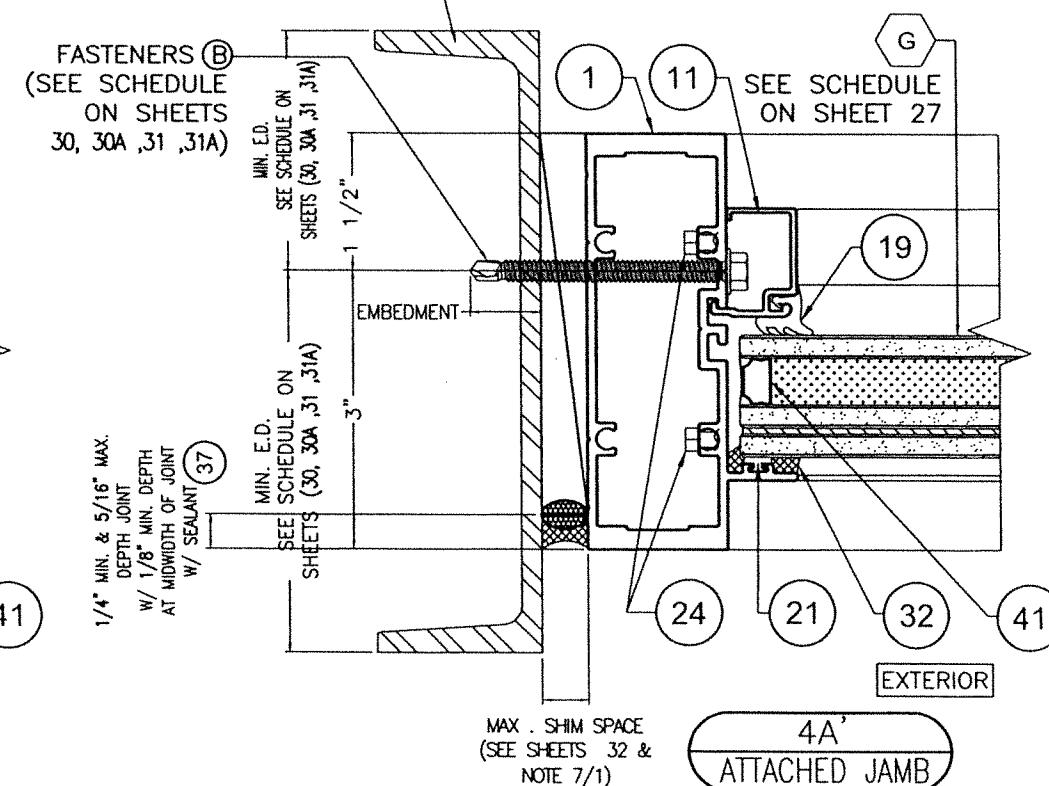
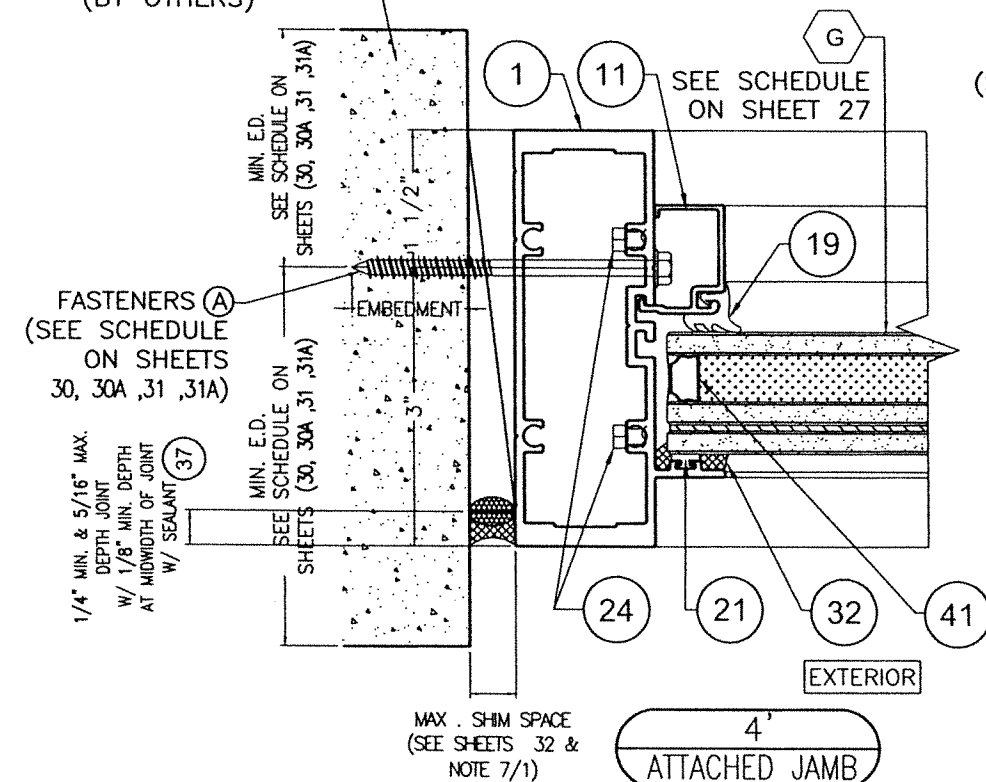
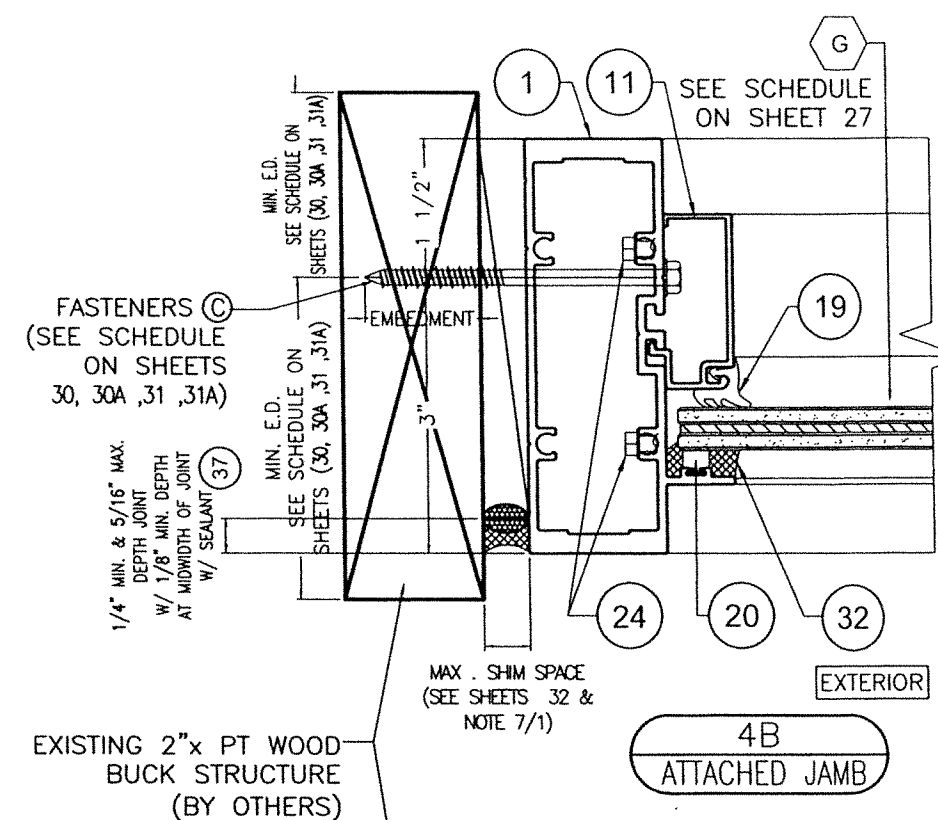
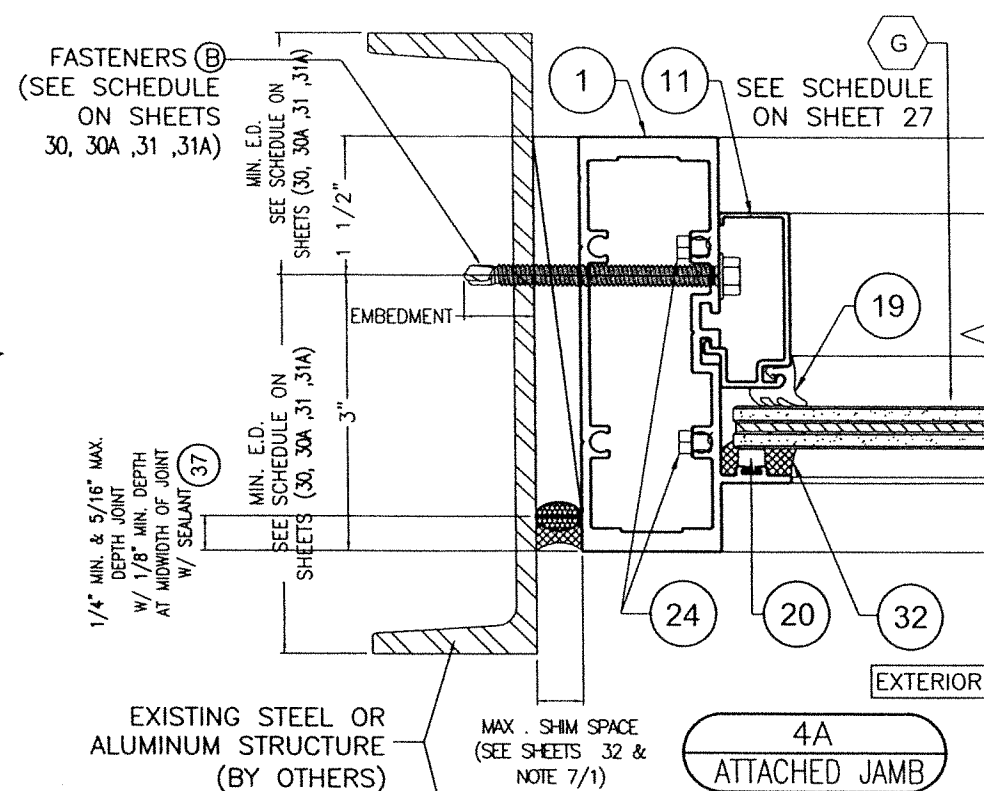
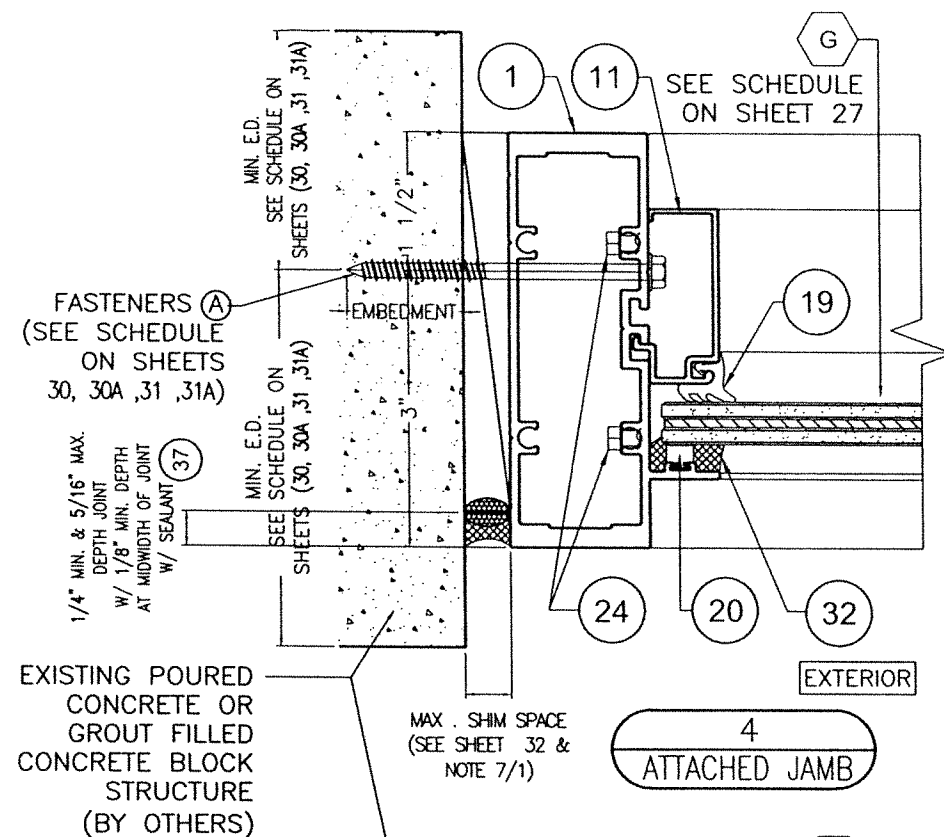
© 2023 TILTECO INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
8355 N.W. 36th St., Ste. 305 - VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 , Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS
290 WEST 78 ROAD
HIALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com
WINDOWS & DOORS

W.H
DRAWN BY:
08/30/2023
DATE
23-204
DRAWING No
SHEET 37 OF 43

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-



OPTIONAL SYSTEM #2

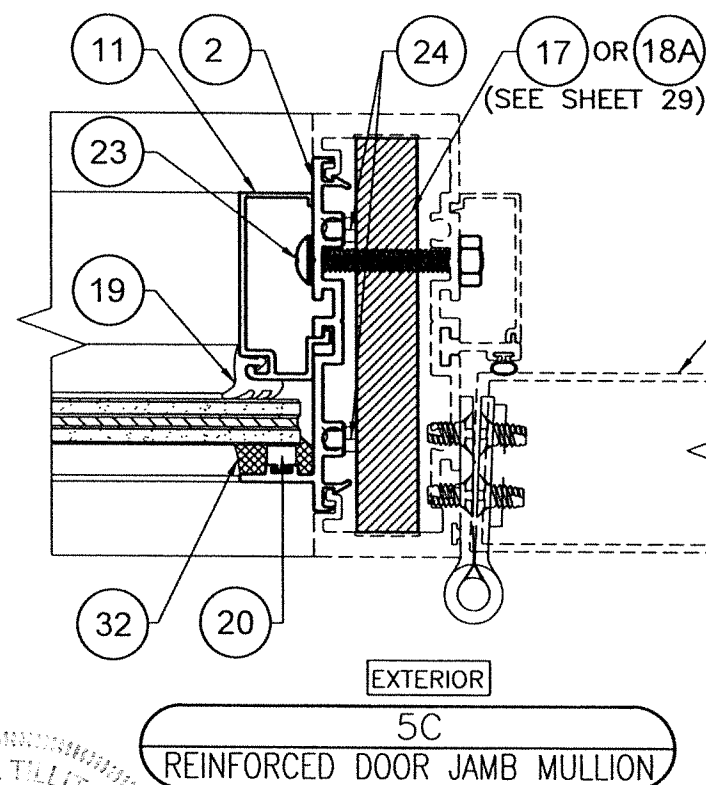
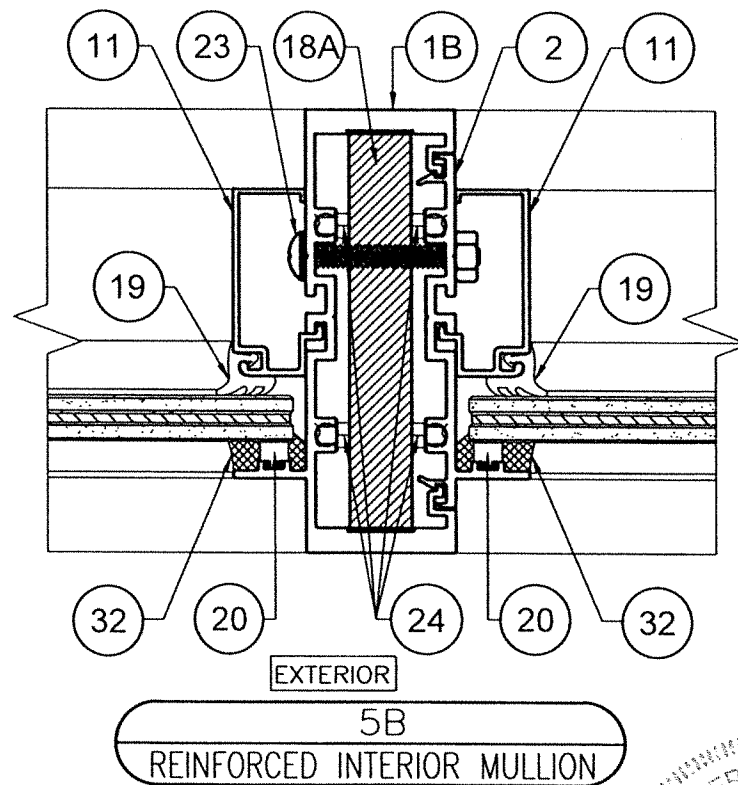
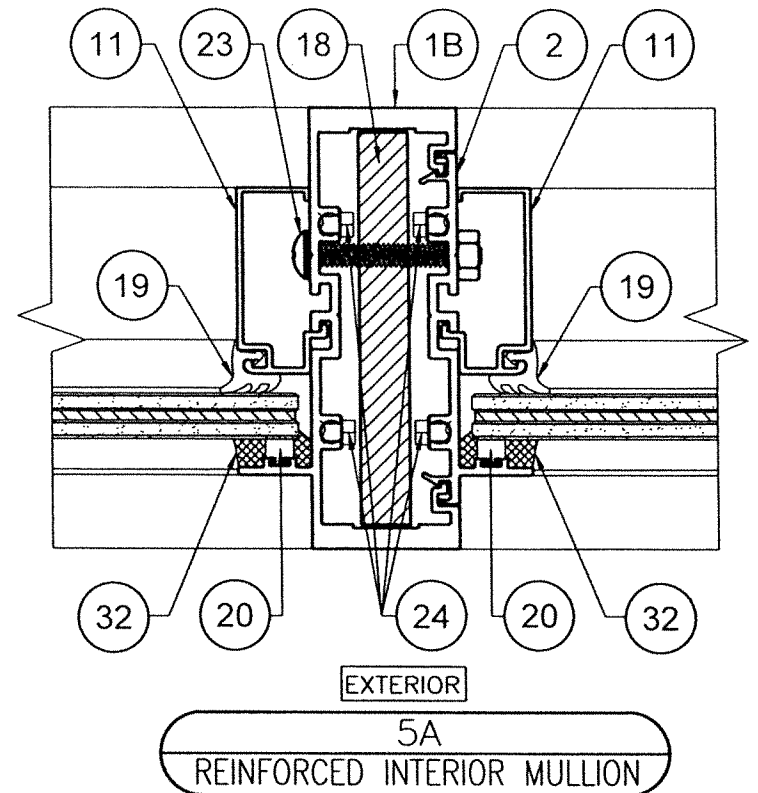
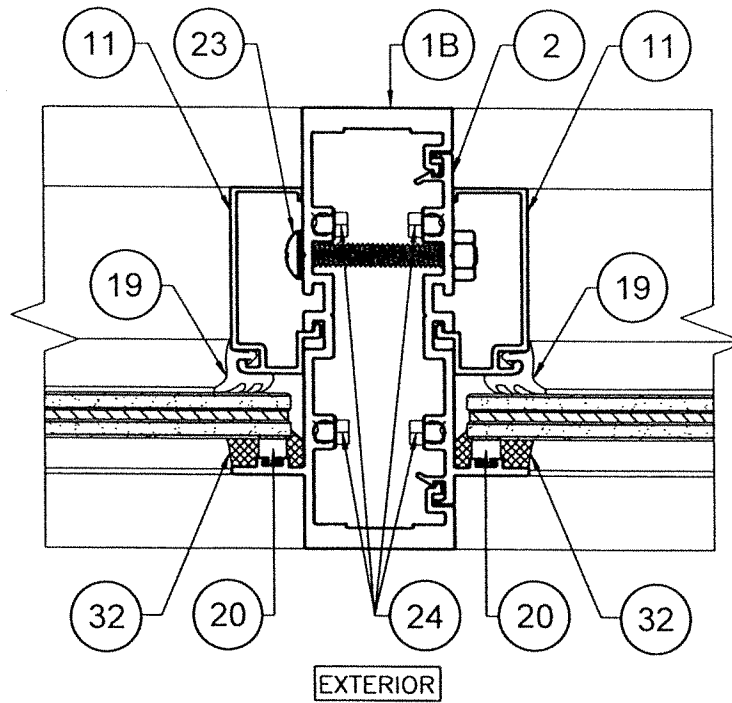
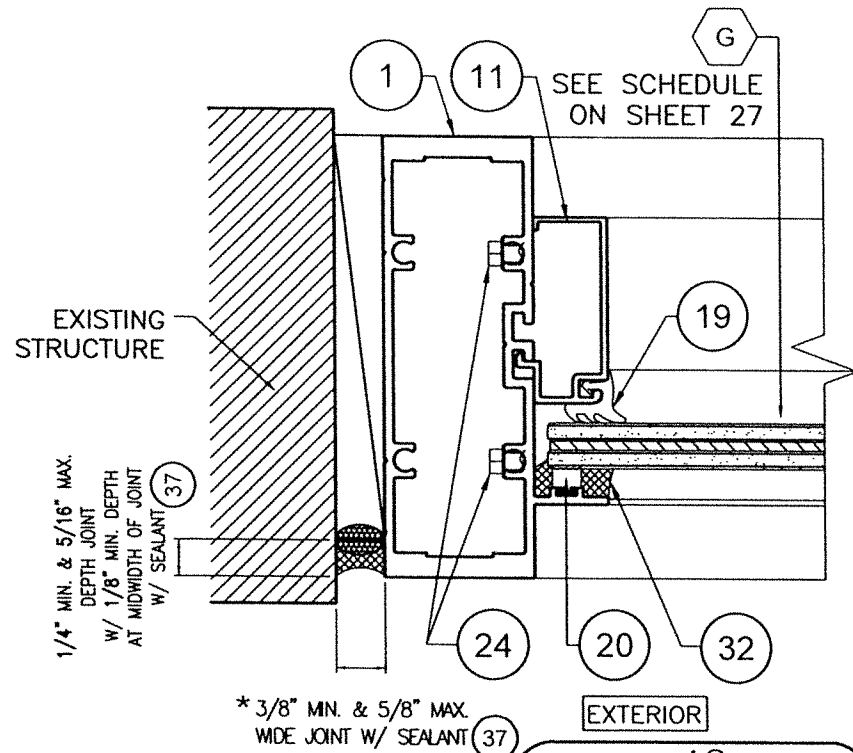
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
1/18/2023
P.E. SEAL/SIGNATURE/DATE

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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS				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				08/30/2023 DATE	
				23-204 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-



DOOR UNDER
SEPARATE
APPROVAL AS
APPLICABLE

* NOTE: INDICATED MAXIMUM AND MINIMUM VALUES FOR SPECIFIED SEALANT VERTICAL JOINT WIDTH AT JAMBS CONNECTED & NOT CONNECTED TO WALL (FREE STANDING) HAVE BEEN DETERMINED ONLY TAKING INTO CONSIDERATION THE ACTUAL MOVEMENT OF GLASS WALL AT JAMBS DUE TO THERMAL, WIND AND ITS OWN CONSTRUCTION TOLERANCE, AND NOT PERFORMANCE FACTORS FROM THE SURROUNDING STRUCTURE.

OPTIONAL SYSTEM #2

WALTER A. TILIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/10/2023
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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILIT JR., P.E.
FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



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

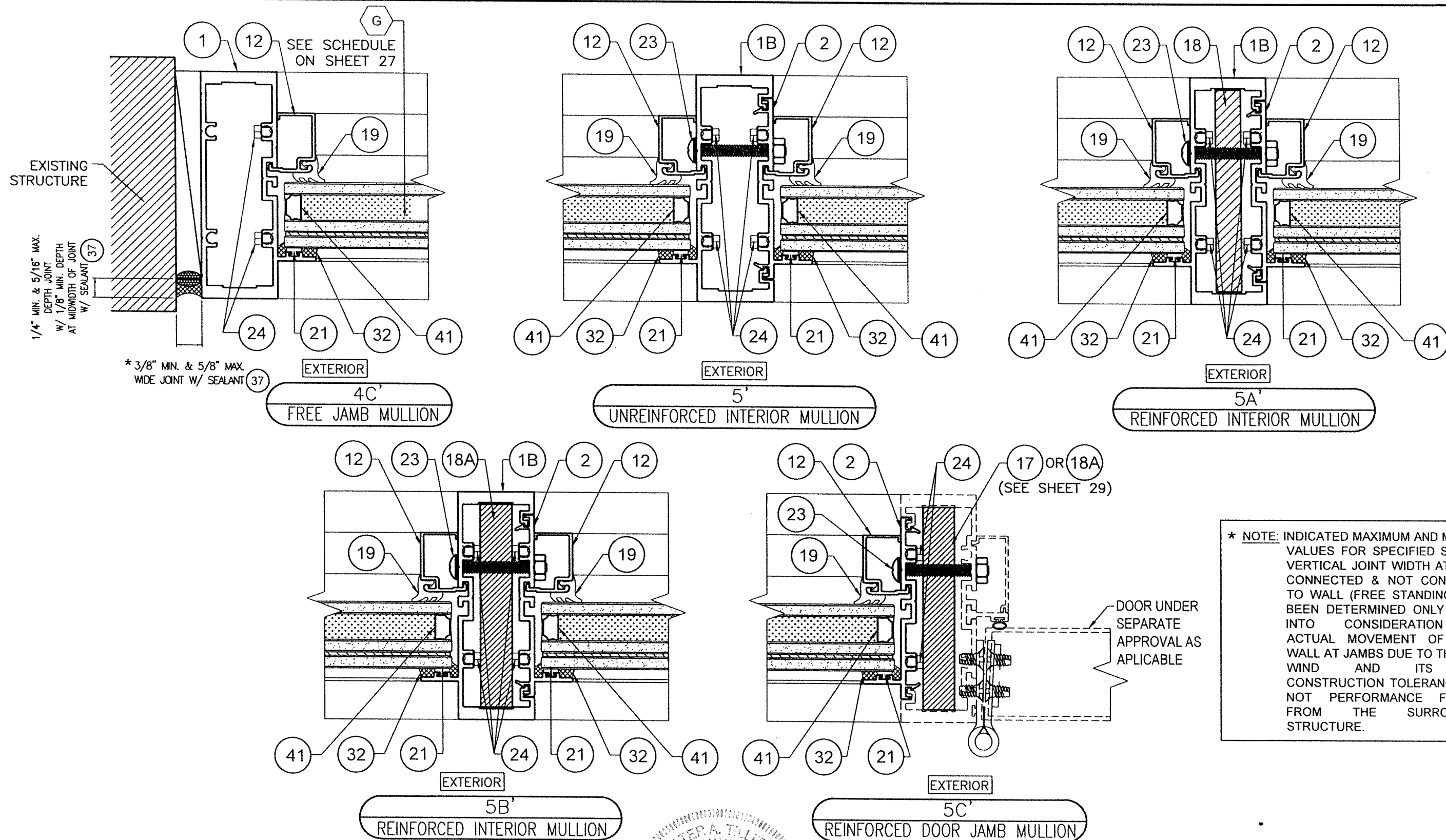
W.H
DRAWN BY:

08/30/2023
DATE

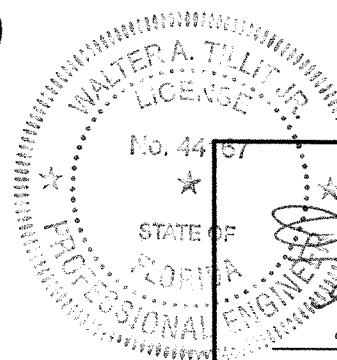
23-204
DRAWING No

SHEET 39 OF 43

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-



OPTIONAL SYSTEM #2



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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS



290 WEST 78 ROAD
HIALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6865
www.gigwindows.com

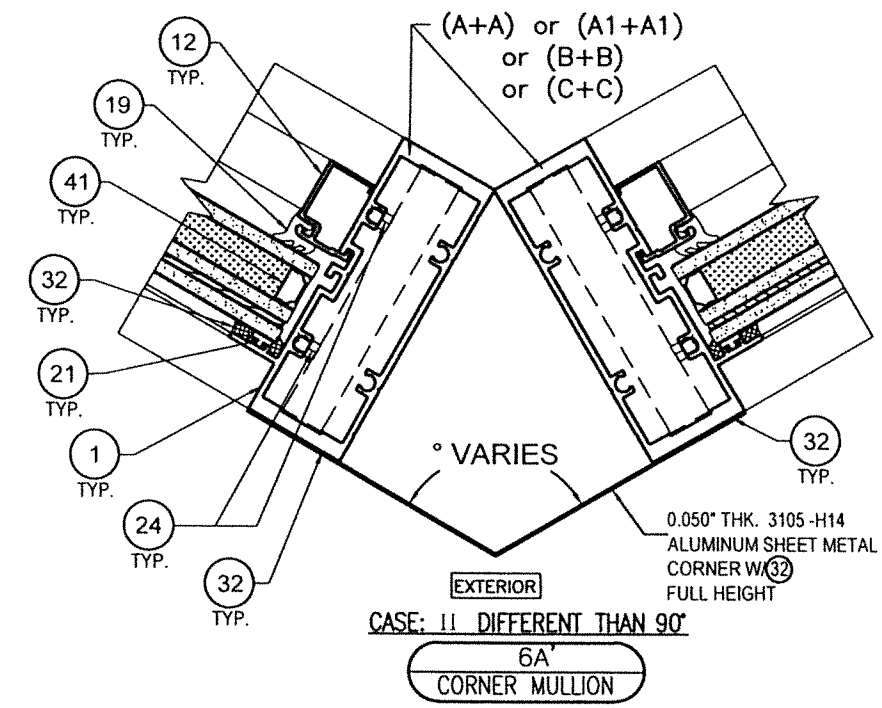
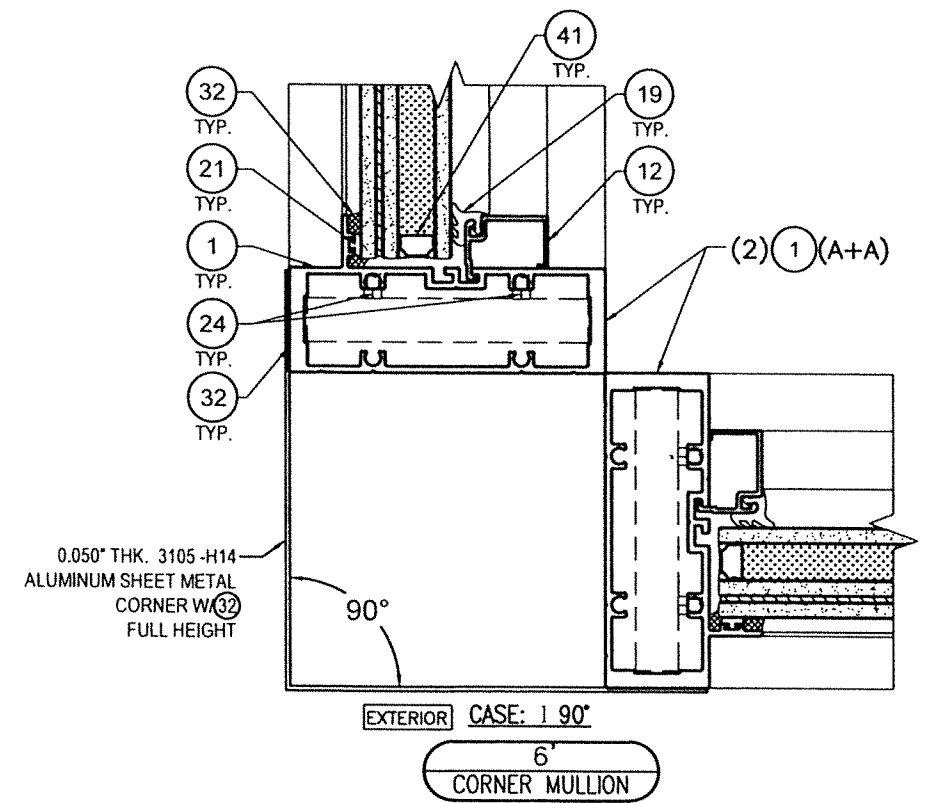
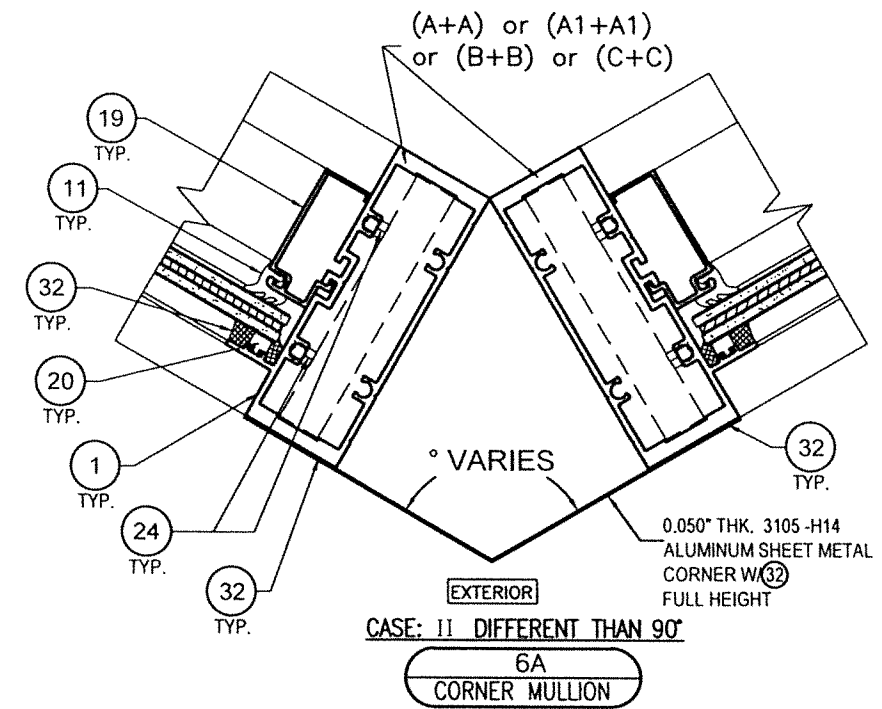
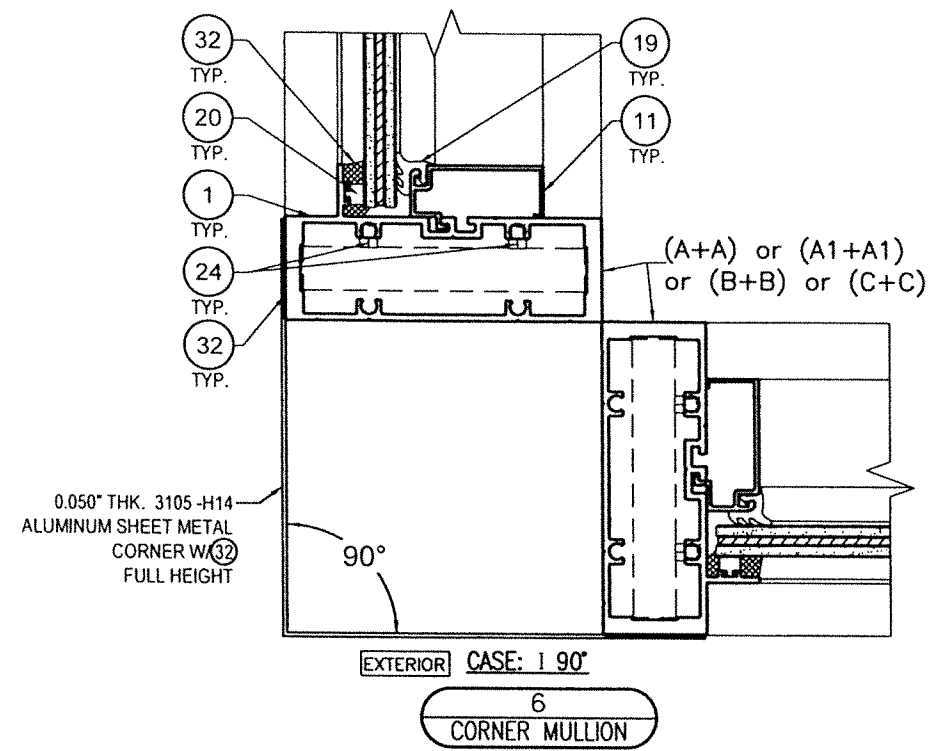
W.H
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-274	08/30/23	2	-	-

SHEET 40 OF 43

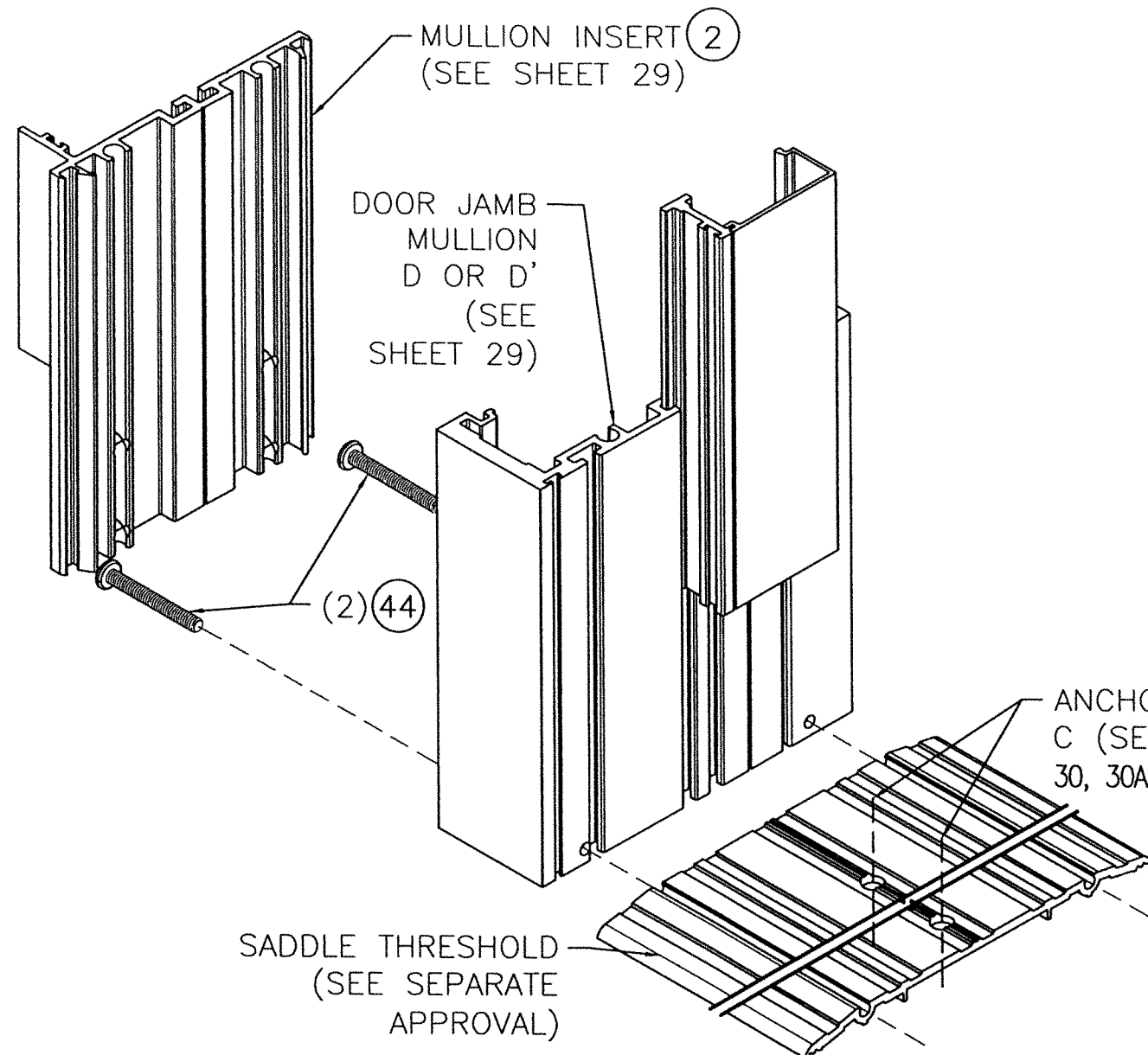


OPTIONAL SYSTEM #2

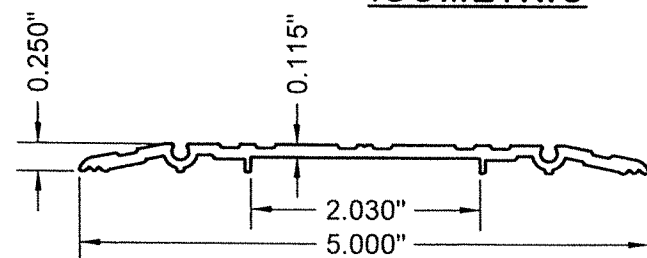
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/12/2023
P.E. SEAL/SIGNATURE/DATE

© 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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)					W.H DRAWN BY:
HIGH IMPACT SERIES JAZS 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS					08/30/2023 DATE
 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com					23-204 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

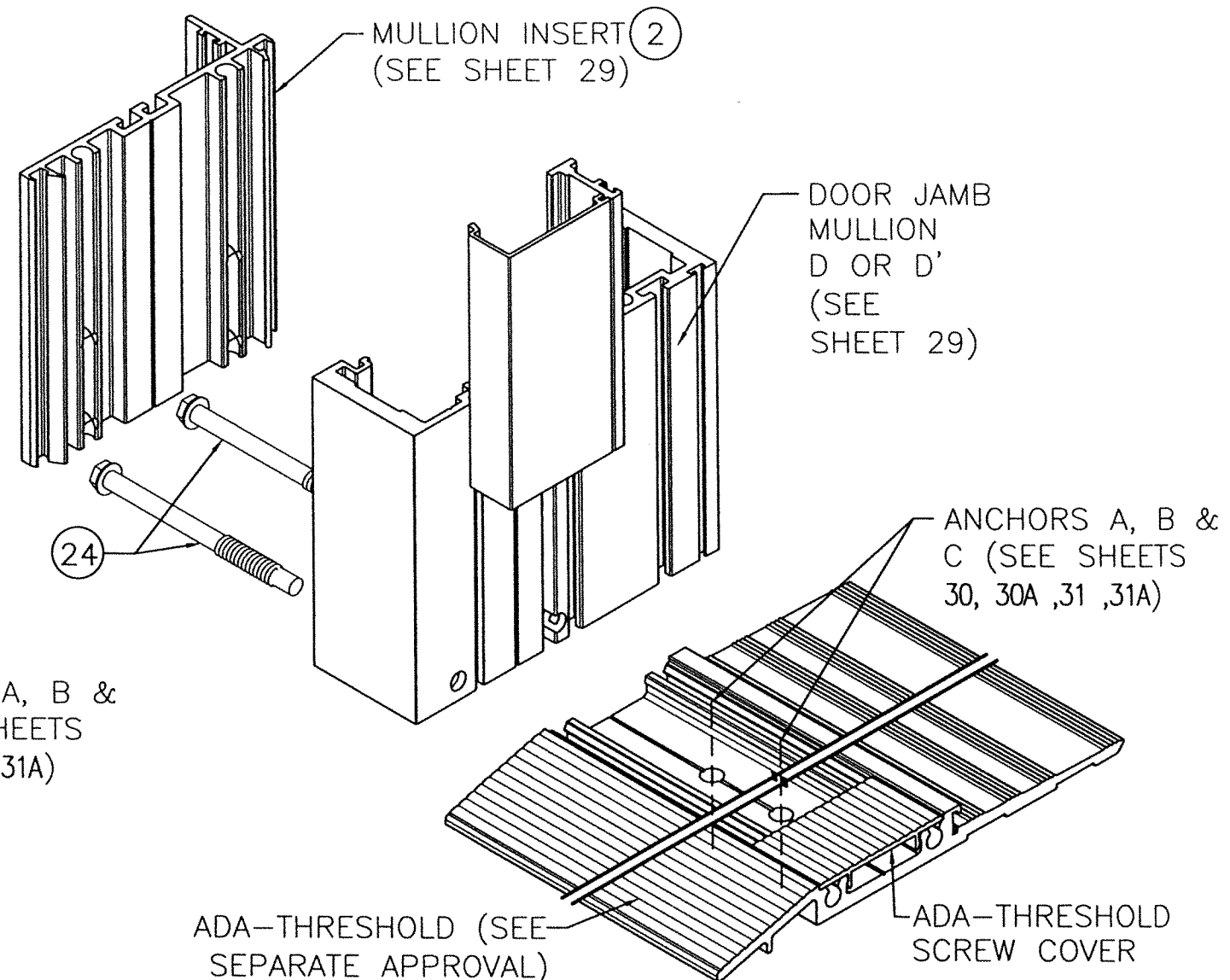


SADDLE THRESHOLD ASSEMBLY ISOMETRIC

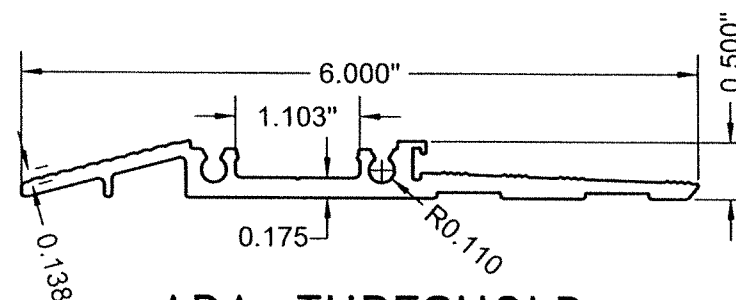


SADDLE THRESHOLD (SEE SEPARATE APPROVAL) 6063-T6 ALLOY

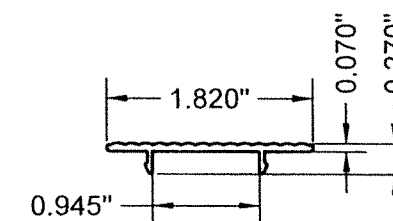
OPTIONAL SYSTEM #2



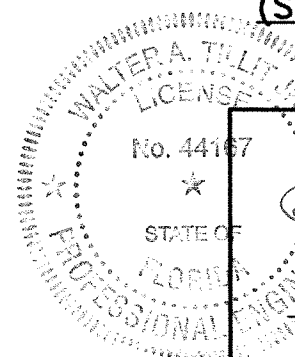
THRESHOLD ASSEMBLY (ISOMETRIC).



ADA-THRESHOLD (SEE SEPARATE APPROVAL) 6063-T6 ALLOY



ADA-THRESHOLD SCREW COVER 6063-T6 ALLOY



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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

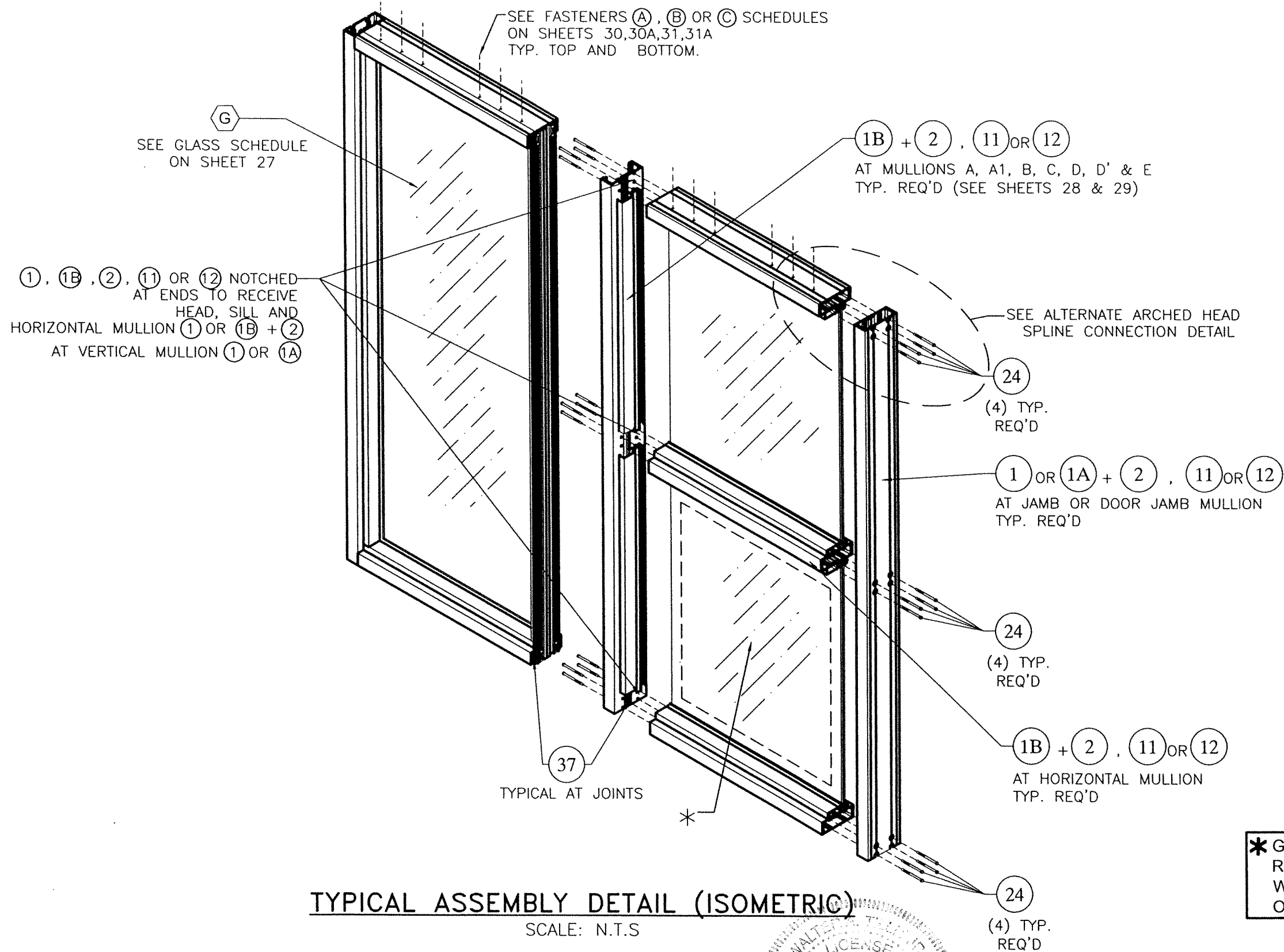
HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

GIG WINDOWS & DOORS

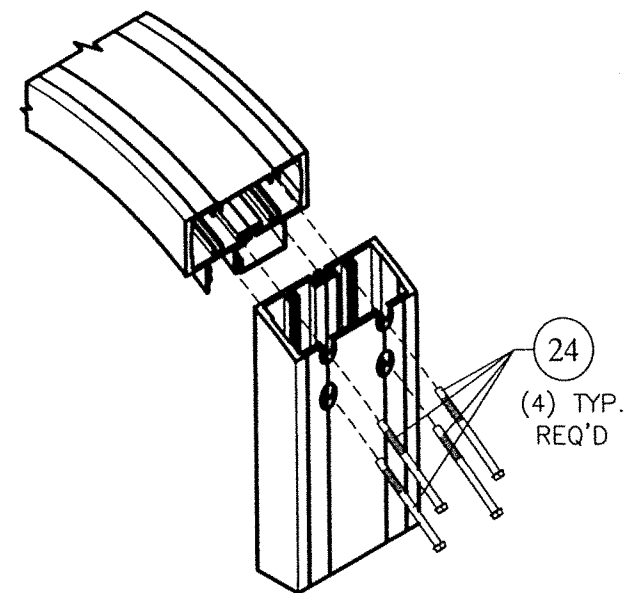
290 WEST 78 ROAD
HIALEAH, FL 33014
PH: (954) 226-5555 / (305) 558-8103
FAX: (305) 558-6665
www.gigwindows.com

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-278	08/30/23	2	-	-

W.H
DRAWN BY:
08/30/2023
DATE
23-204
DRAWING No
SHEET 42 OF 43



TYPICAL ASSEMBLY DETAIL (ISOMETRIC)
SCALE: N.T.S



**ARCHED HEAD SPLINE
CONNECTION DETAIL**
SCALE: N.T.S

*** GLASS MAY BE REPLACED BY AN APPROVED IMPACT
RESISTANT WINDOW OR DOOR.
WINDOW OR DOOR ANCHORAGE SHALL BE AS PER ITS
OWN APPROVAL**

OPTIONAL SYSTEM #2



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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

HIGH IMPACT SERIES JAZZ 70,000 STOREFRONT SYSTEM W/
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS

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 20-278	08/30/23	2	-	-

W.H
DRAWN BY:

08/30/2023
DATE

23-204
DRAWING No

SHEET 43 OF 43