

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 2020 (7th 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 7-16 & 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 7-16 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.
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).
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 2015 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, 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.

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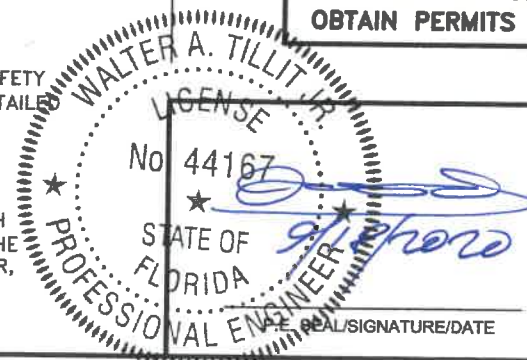
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INSTRUCTIONS:

- 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 SHEET 6 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, 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, 9A, 10, 10A & 11 PER STEP 4.
- STEP 4:** USE SCHEDULES ON SHEET 11, TO SELECT ANCHOR FOR OPTION W/ JAMB ANCHORAGE, OR SCHEDULES ON SHEET 7 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

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



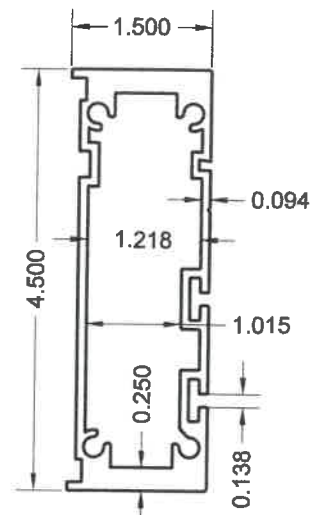
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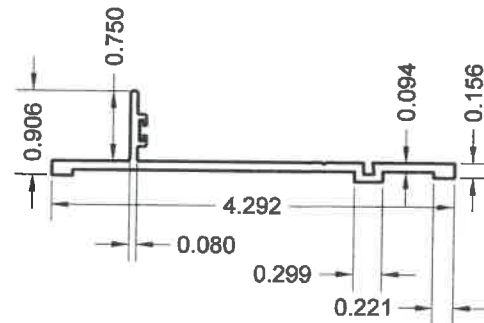
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HIGH IMPACT SERIES JAZS 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS				M.P DRAWN BY:	
				9/17/2020 DATE	
				20-276 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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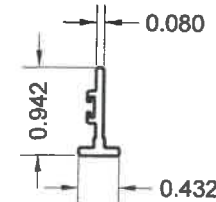
SHEET 1 OF 22



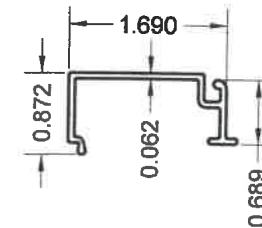
1 FRAME HEAD, JAMB,
SILL & MULLION
6063-T6 ALLOY



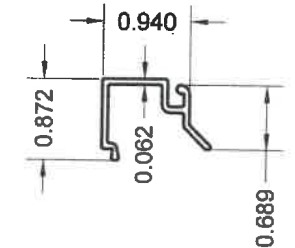
2 MULLION INSERT
6063-T6 ALLOY



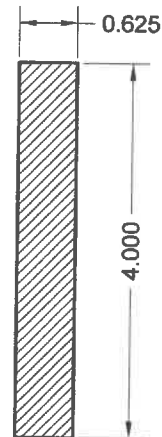
10 GLAZING ADAPTER
FIXED PANEL
6063-T6 ALLOY



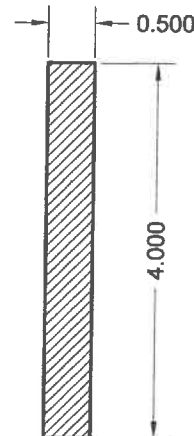
11 FIXED PANEL
GLAZING BEAD
LAMINATED GLASS
6063-T6 ALLOY



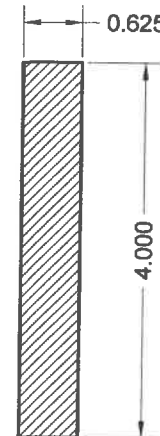
12 FIXED PANEL
GLAZING STOP
INSULATED GLASS
6063-T6 ALLOY



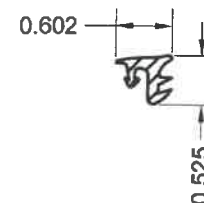
17 5/8" ALUMINUM
REINFORCEMENT
6063-T6 ALLOY



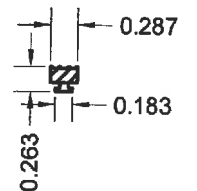
18 1/2" ALUMINUM
REINFORCEMENT
6063-T6 ALLOY



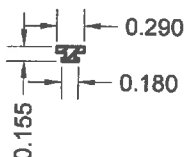
18A 5/8" STEEL
REINFORCEMENT
(EXTENDED PROTOCOL)



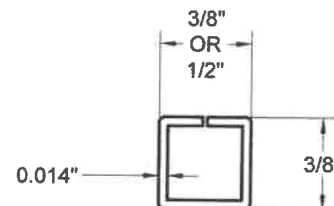
19 WEDGE GASKET
EPDM



20 SOLID RUBBER
GASKET
NEOPRENE / NYLON

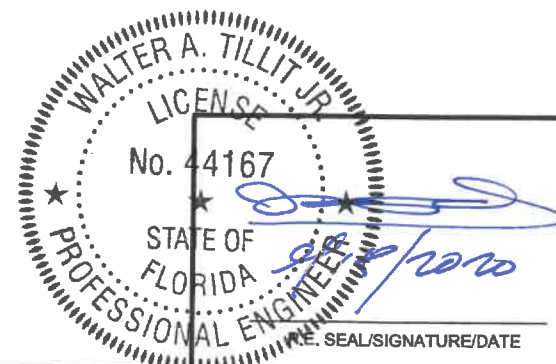


21 GLAZING GASKET
TPE



41 INSULATED GLASS
UNIT SPACER
NTS

COMPONENTS
SCALE 1/2"=1"



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HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS			M.P DRAWN BY:		
			290 WEST 78 ROAD HIALEAH, FL. 33014 PHONE: (305) 558-8103 FAX: (305) 558-6665 www.generalimpact.com		
			9/17/2020 DATE		
REV. No			DRAWING No		
1			20-276		
DESCRIPTION			SHEET 2 OF 22		
OLD 19-028					
DATE					
9/17/20					
REV. No					
2					
DESCRIPTION					
DATE					

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



P.E. SEAL/SIGNATURE/DATE

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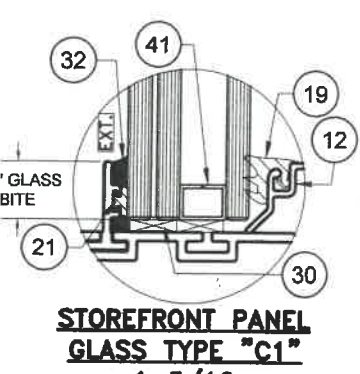
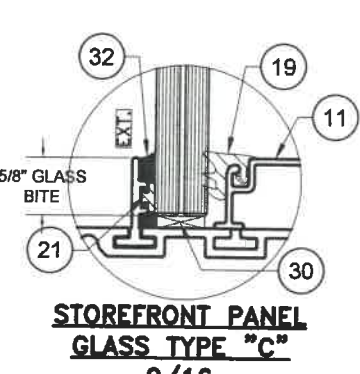
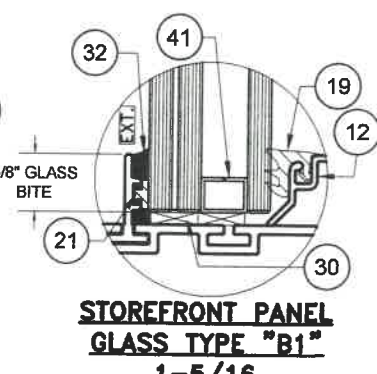
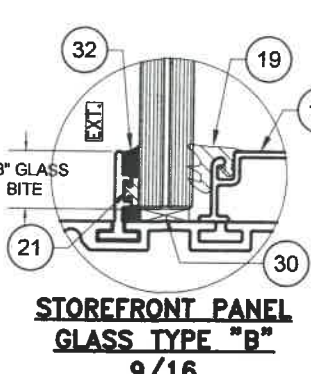
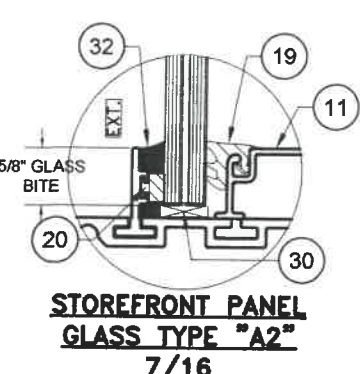
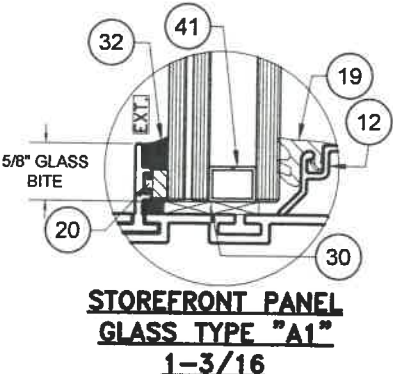
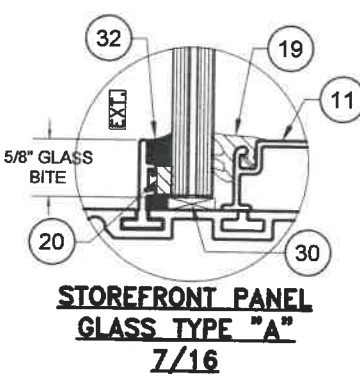
HIGH IMPACT SERIES JAZZ 70.000
 STOREFRONT SYSTEM W/ LARGE & SMALL
 MISSILE LAMINATED & INSULATED GLASS

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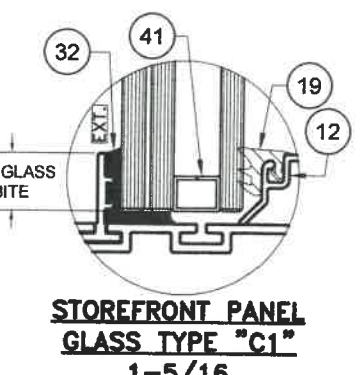
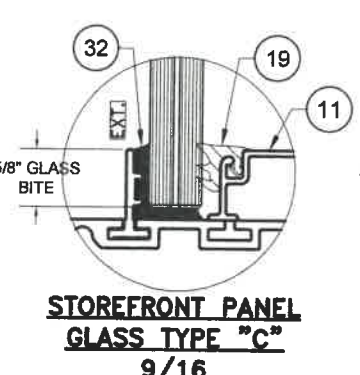
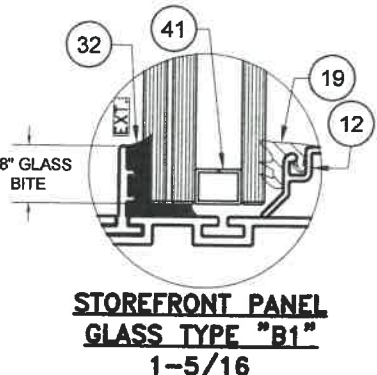
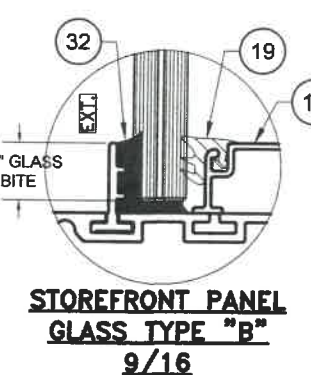
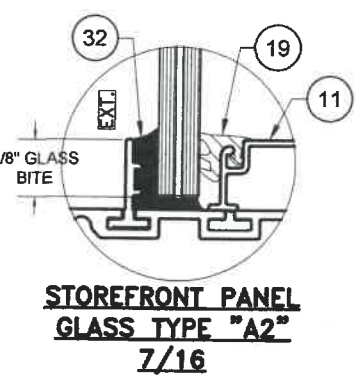
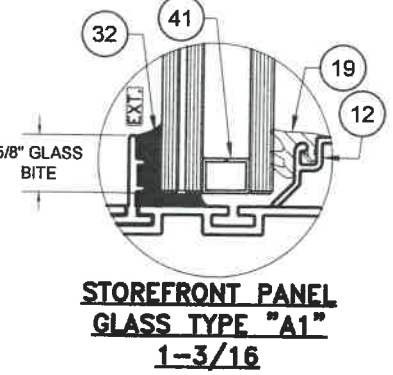
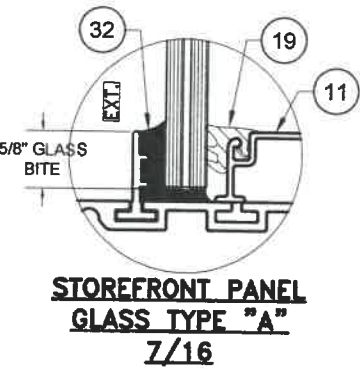
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1	OLD 19-028	9/17/20	2	-	-

M.P
 DRAWN BY:
 9/17/2020
 DATE
 20-276
 DRAWING No
 SHEET 3 OF 22

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
(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 1/2"=1"



GLAZING DETAILS IN BETWEEN SETTING BLOCKS AT STOREFRONT

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STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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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
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FAX: (305) 558-6665
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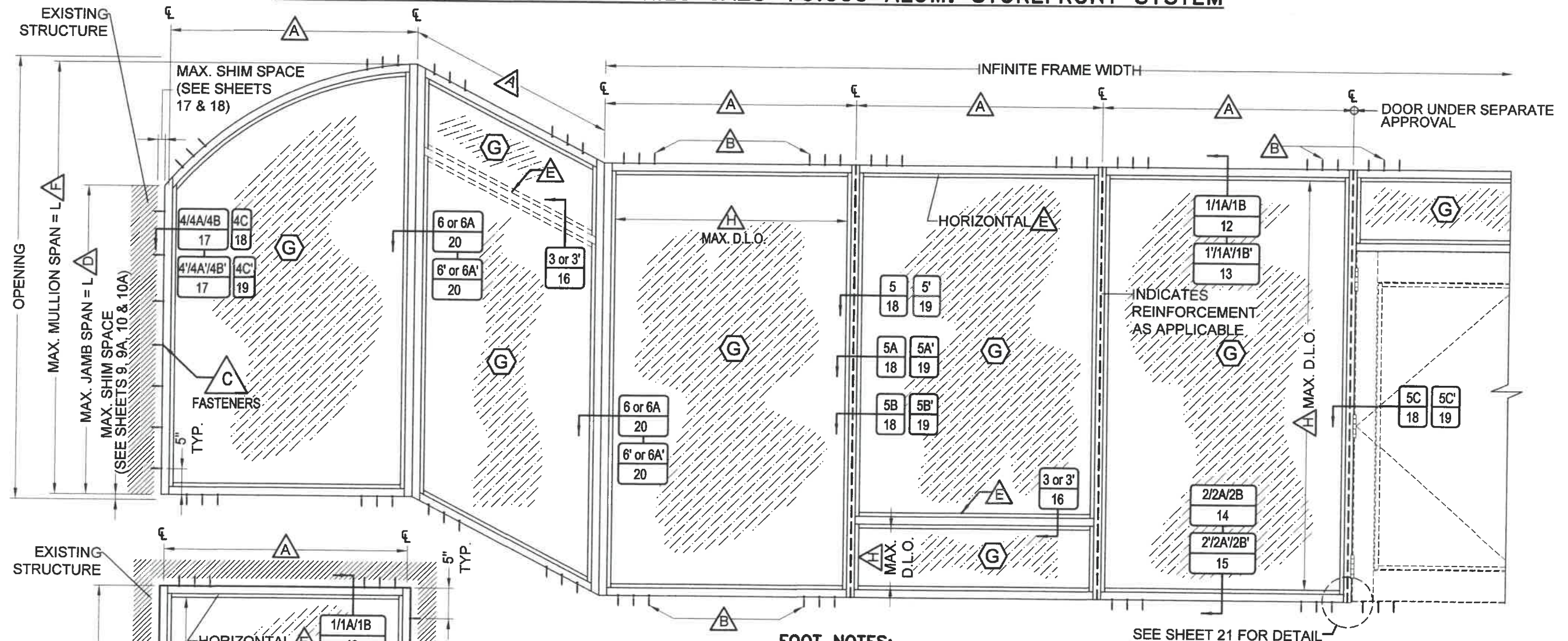
M.P
DRAWN BY:

9/17/2020
DATE

20-276
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-028	9/17/20	2	-	-

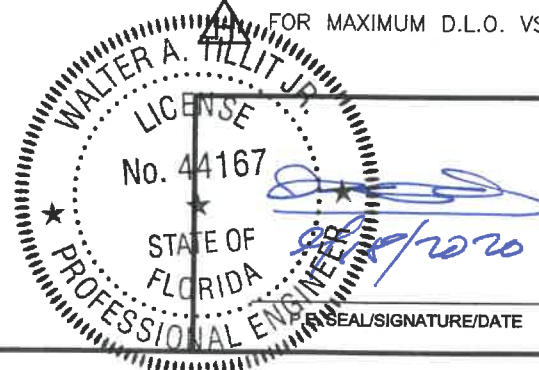
ISOMETRIC ELEVATION FOR SERIES JAZS-70.000 ALUM. STOREFRONT SYSTEM



FOOT NOTES:

- A** MAXIMUM MULLION SPACING IS 5'-0".
- B** FOR HEAD AND SILL FASTENERS QUANTITY, TYPES AND SPECS SEE SHEETS 9, 9A, 10 & 10A.
- C** SEE SHEET 11 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.

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FLORIDA Lic. # 44167

HIGH IMPACT SERIES JAZS 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS				M.P DRAWN BY:	
				9/17/2020 DATE	
				20-276 DRAWING No	
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1	OLD 19-025	9/17/20	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)**

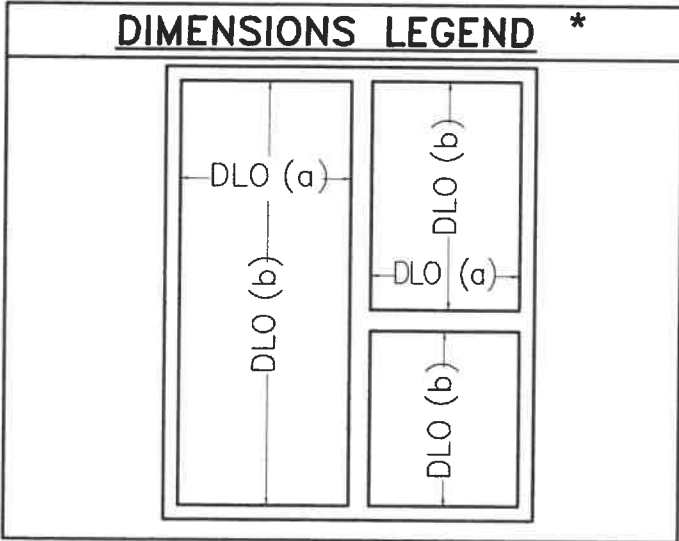
GLASS TYPE A & A1 : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
30"	from 30" to 144"	±66.0
32"	from 32" to 143"	±66.0
34"	from 34" to 135"	±66.0
36"	from 36" to 127"	±66.0
38"	from 38" to 120"	±66.0
40"	from 38" to 114"	±66.0
42"	from 42" to 109"	±66.0
44"	from 44" 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 : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
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

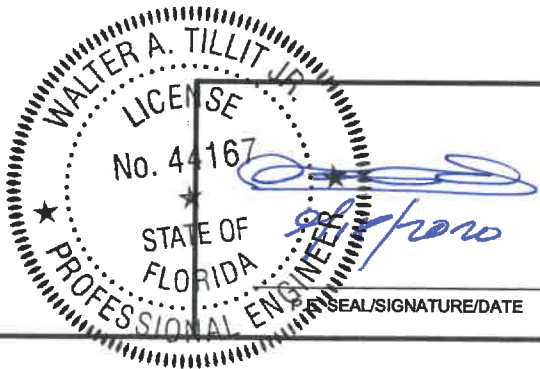
GLASS TYPE B & B1 : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
30"	from 30" to 119"	±90.0
32"	from 32" to 111.5"	±90.0
34"	from 34" to 105"	±90.0
36"	from 36" to 99"	±90.0
38"	from 38" to 94"	±90.0
40"	from 38" to 89"	±90.0
42"	from 42" to 85"	±90.0
44"	from 44" 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)
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 *



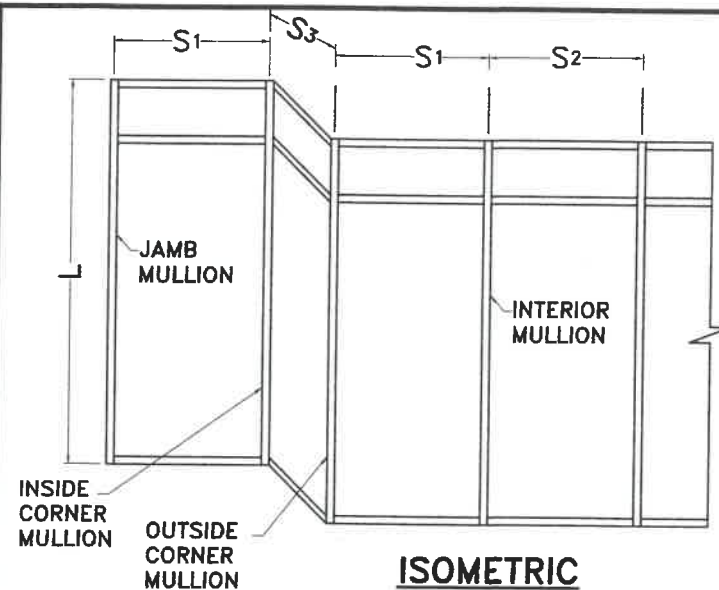
* SIDE "a" IS ALWAYS EQUAL OR SHORTER THAN "b".
"a", "b" MAY BE ORIENTED IN ANY DIRECTION.



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION
1	OLD 18-028	9/17/20	2	-



ISOMETRIC

L = MULLION SPAN

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

EFFECTIVE SPACING $b = \frac{S_1}{2}$ AND $\frac{S_3}{2}$ (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)

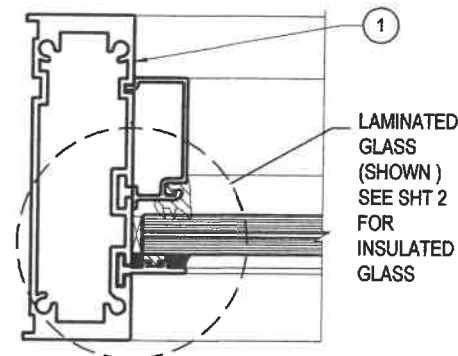
A1 : UNREINFORCED INTERIOR OR CORNER MULLION (SEE SHEET 5 FOR APPLICABLE SECTIONS)

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

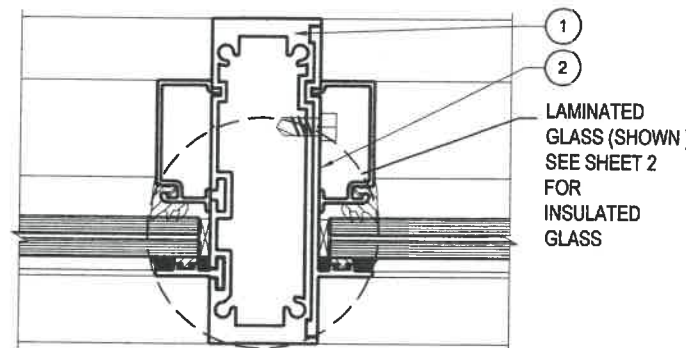
A JAMB MULLION ①

AIR/WATER INFILTRATION IS 13.5 psf



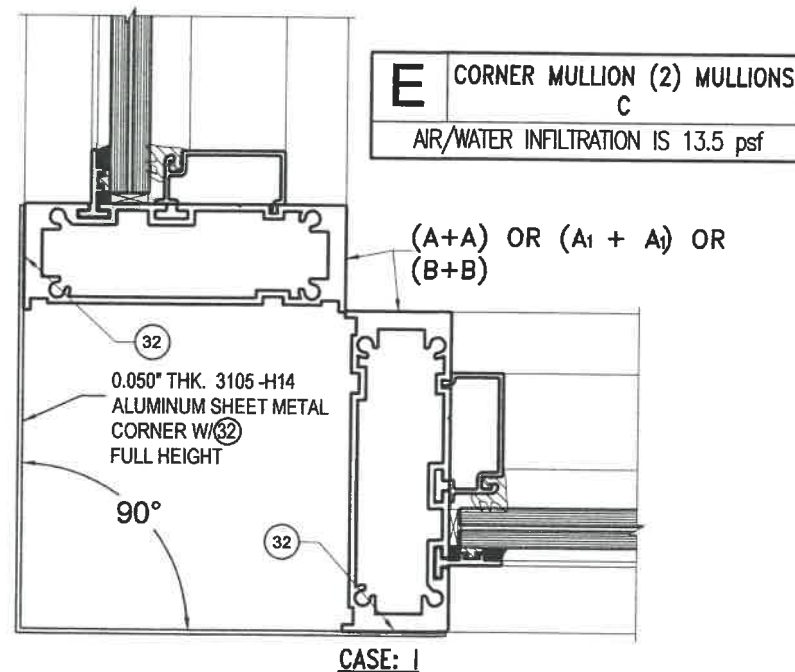
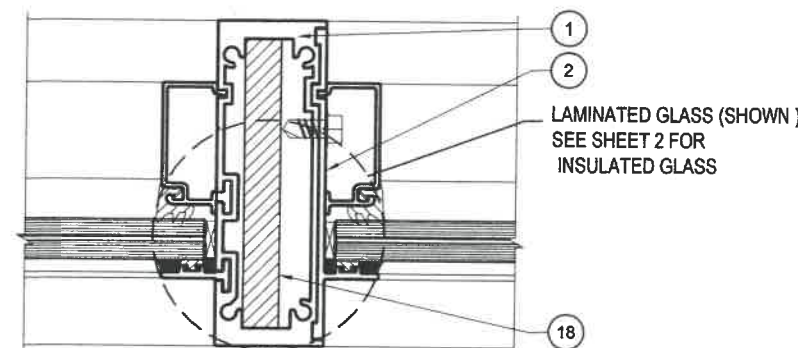
A1 INTERIOR MULLION ①+②

AIR/WATER INFILTRATION IS 13.5 psf



B INTERIOR MULLION ①+②+⑱

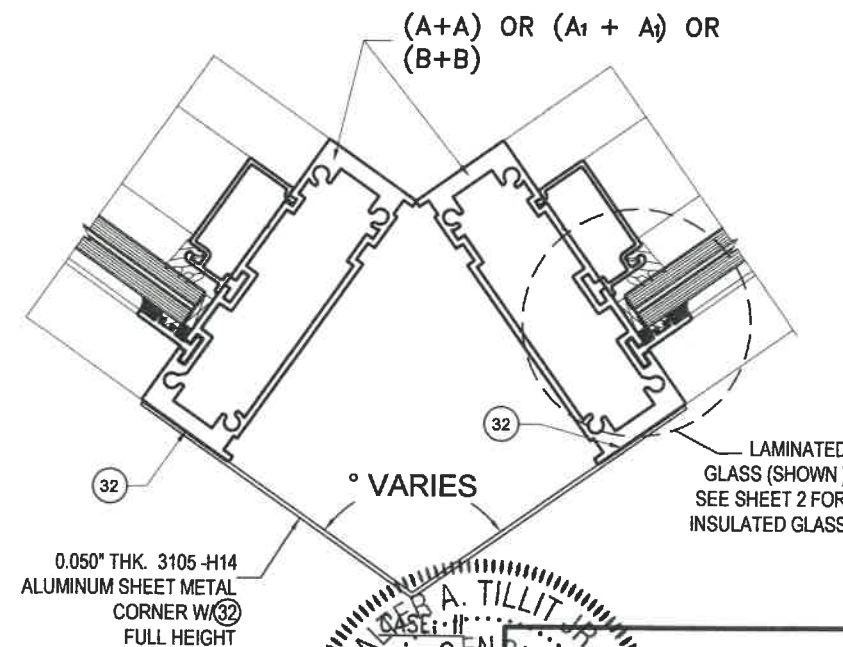
AIR/WATER INFILTRATION IS 13.5 psf



E CORNER MULLION (2) MULLIONS C

AIR/WATER INFILTRATION IS 13.5 psf

(A+A) OR (A₁ + A₁) OR (B+B)



(A+A) OR (A₁ + A₁) OR (B+B)

° VARIES

LAMINATED GLASS (SHOWN) SEE SHEET 2 FOR INSULATED GLASS

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

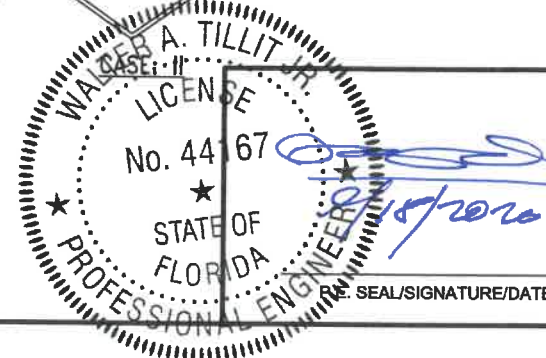
MAXIMUM DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING FOR A or E ▲ "b" (Ft-in)	EFFECTIVE SPACING FOR A1 or B "b" (Ft-in)	MAX. SPAN A or E (A+A) "L" (Ft-in)	MAX. SPAN A1 or E (A1+A1) "L" (Ft-in)	MAX. SPAN B or E (B+B) "L" (Ft-in)
47.8	1'-6"	3'-0"	11'-8"	9'-0"	11'-8"
	2'-0"	4'-0"	10'-7"	9'-0"	10'-1"
	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.

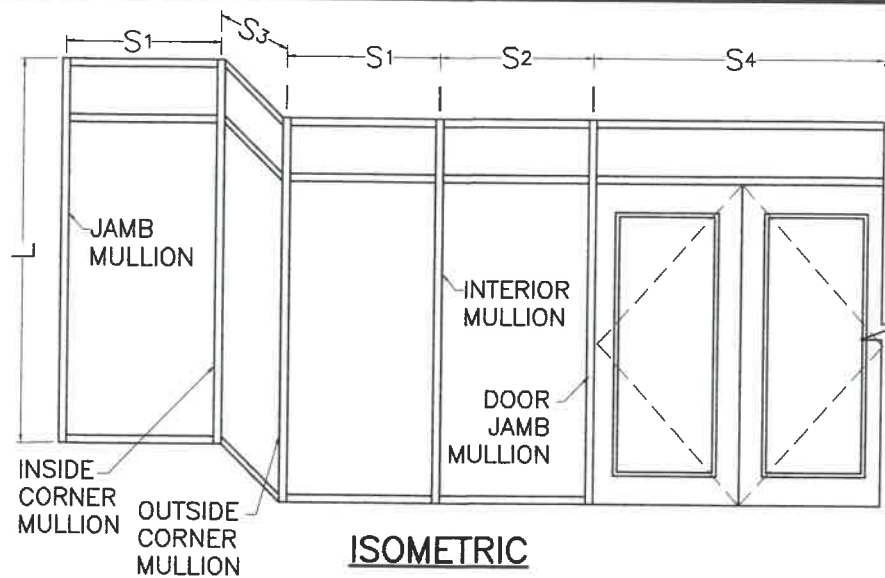
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SHEET 7 OF 22



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)

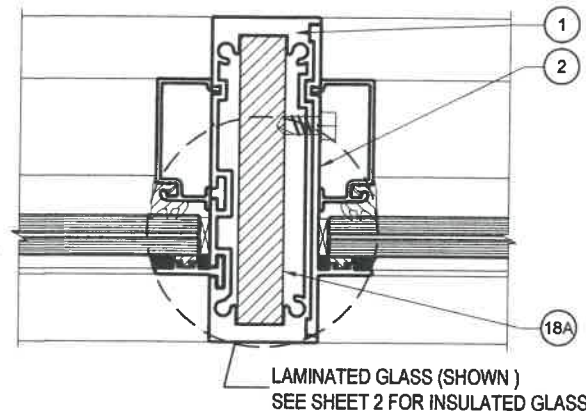
DEFINITIONS

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

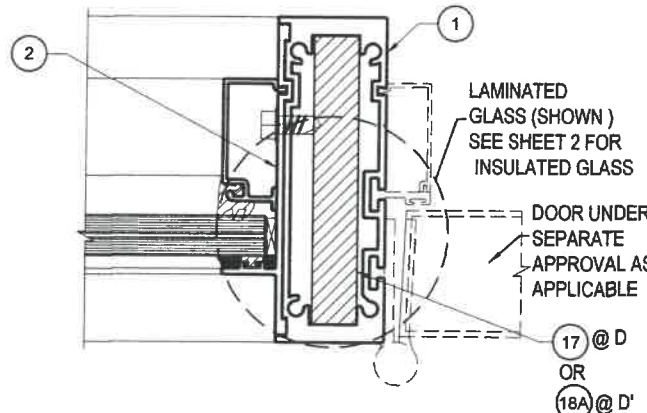
D,D' : REINFORCED DOOR JAMB OR INTERIOR MULLIONS
(SEE SHEET 5 FOR APPLICABLE SECTIONS)

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

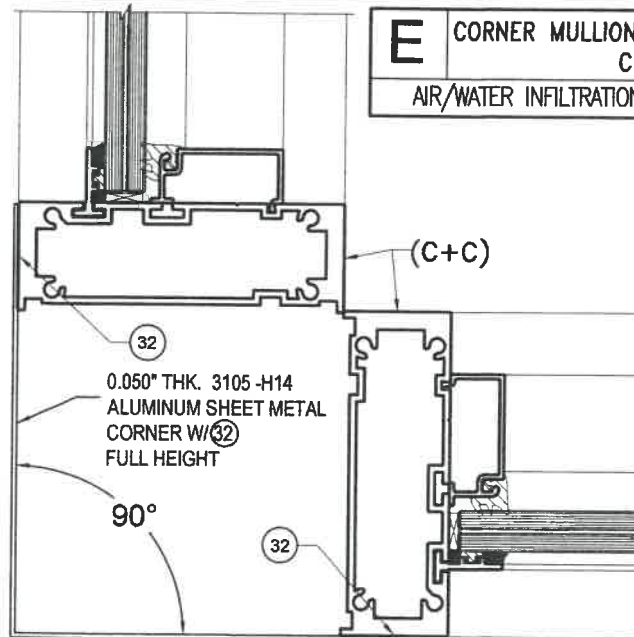
C INTERIOR MULLION (1) + (18A)
AIR/WATER INFILTRATION IS 13.5 psf



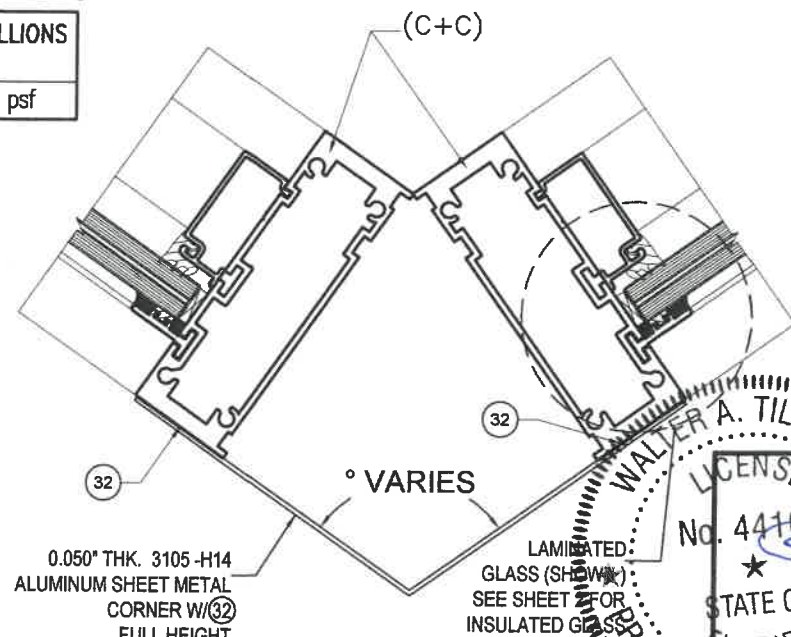
D & D' INTERIOR MULLION OR DOOR JAMB
MULLION D W/ (1) + (2) + (17) OR
INTERIOR MULLION OR DOOR JAMB
MULLION D' W/ (1) + (2) + (18A)
AIR/WATER INFILTRATION IS 13.5 psf



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



CASE: I



CASE: II

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'
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" 11'-9"	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" 6'-0"	10'-11" 9'-7" 8'-7"	10'-11" 9'-7" 7'-10"
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" 11'-7"	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" 6'-0"	10'-9" 9'-5" 8'-5"	10'-9" 9'-5" 7'-8"
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" 6'-0"	10'-7" 9'-3" 8'-3"	10'-7" 9'-3" 7'-6"
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" 6'-0"	10'-6" 9'-0" 8'-1"	10'-6" 9'-0" 7'-4"
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" 10'-4"	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" 6'-0"	10'-3" 8'-10" 8'-0"	10'-3" 8'-10" 7'-3"
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'-4"	10'-10" 9'-10" 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" 6'-0"	10'-0" 8'-9" 7'-10"	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" 11'-6"	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" 6'-0"	9'-11" 8'-7" 7'-7"	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" 9'-10"	10'-5" 9'-6" 8'-4"	155.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-7"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 6'-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'-5"	160.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-6"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 6'-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" 6'-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"	-	170.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-2"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 6'-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"	-	175.0	1'-6" 2'-0" 2'-6"	12'-0" 12'-0" 10'-0"	3'-0" 4'-0" 5'-0"	3'-0" 4'-0" 6'-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" 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" 6'-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"	-							
115.0	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"	-							

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

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

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
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CA-0006719
WALTER A. TILLIT JR., P.E.
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DRAWN BY:
9/17/2020
DATE
20-276
DRAWING No
SHEET 8 OF 22

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-028	9/17/20	2	-	-

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

**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
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
	-	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

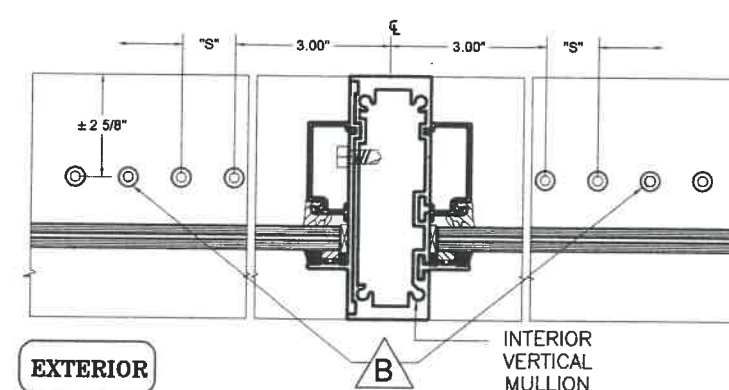
* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ALL CASES IS 90.0 psf

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 & W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

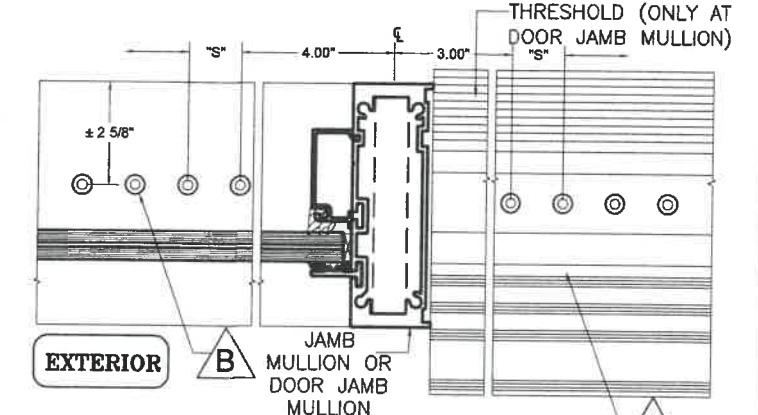
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



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**

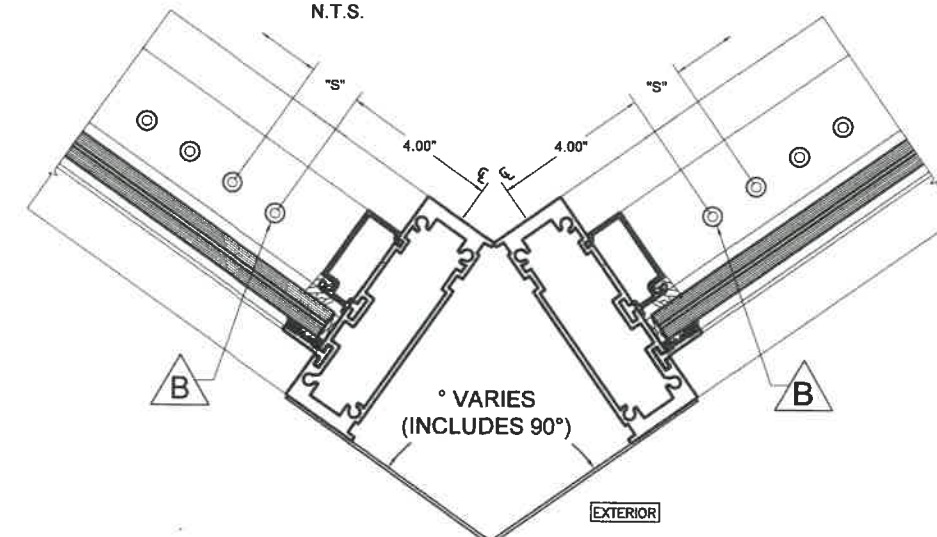
(PLAN VIEW)
N.T.S.



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.

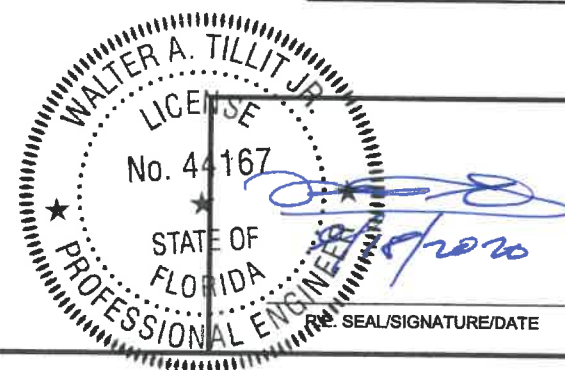


n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT CORNER, EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
N.T.S.

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SHEET 9 OF 22

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-028	9/17/20	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) JAMB OR CORNER MULLION		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
			A & B	C	A & B	C	A & B	C	A & B	C	A & B	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

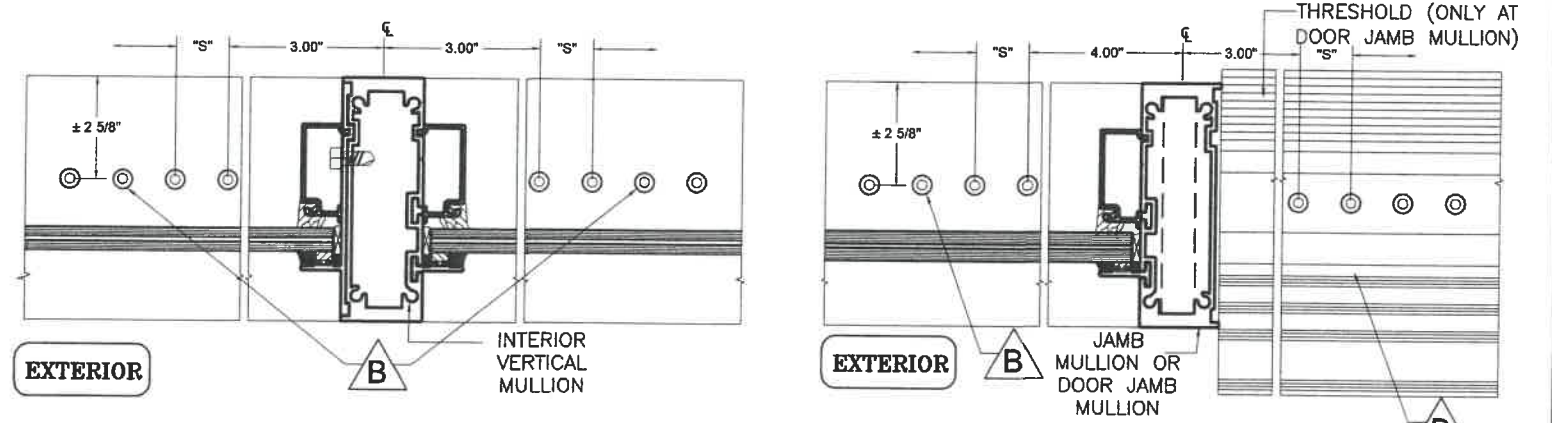
* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

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 & 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

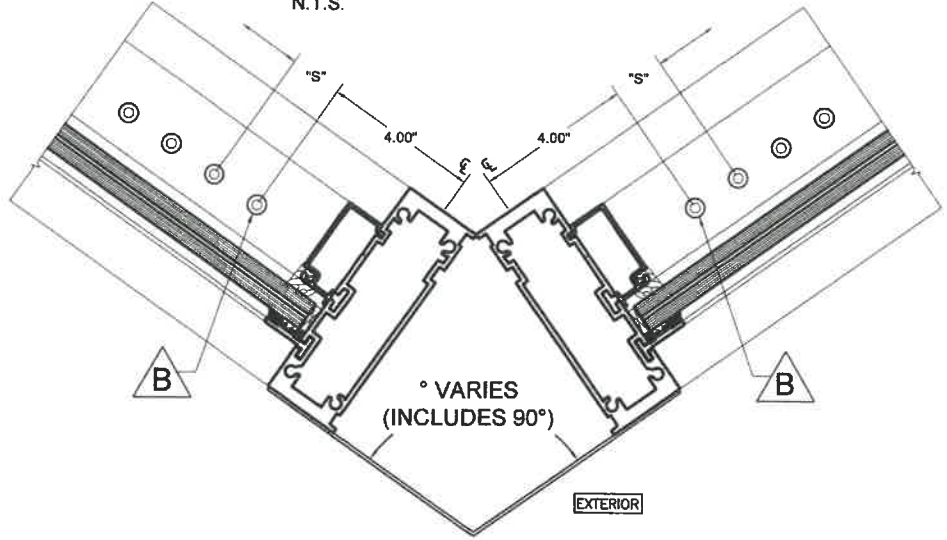
**SILL OR HEAD CONNECTION DETAIL @
INTERIOR VERTICAL MULLION**

(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)

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
DATE: 9/17/2020

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CA-0006719
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	CLB 18-028	9/17/20	2	-	-

M.P
DRAWN BY:
9/17/2020
DATE
20-276
DRAWING No
SHEET 9A OF 22

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	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
	1'-9"	3'-6"	67.3	57.9	101.0	86.8	134.6	115.8	168.3	144.7	180.0
	2'-0"	4'-0"	58.9	50.7	88.4	76.0	117.8	101.3	147.3	126.6	176.7
	2'-3"	4'-6"	52.3	45.0	78.5	67.5	104.7	90.0	130.9	112.4	157.1
	2'-6"	5'-0"	47.1	40.5	70.7	60.8	94.2	81.0	117.8	101.3	141.4
	-	5'-6"	42.8	36.8	64.3	55.2	85.7	73.6	107.1	92.0	128.5
7'-6"	-	6'-0"	39.3	33.8	58.9	50.7	78.5	67.6	98.2	84.5	117.8
	1'-6"	3'-0"	73.0	62.8	109.6	94.2	146.1	125.6	180.0	157.0	180.0
	1'-9"	3'-6"	62.6	53.8	93.9	80.8	125.2	107.7	156.5	134.6	180.0
	2'-0"	4'-0"	54.8	47.1	82.2	70.7	109.6	94.3	137.0	117.8	164.3
	2'-3"	4'-6"	48.6	41.8	73.0	62.7	97.4	83.6	121.7	104.5	146.1
	2'-6"	5'-0"	43.8	37.7	65.8	56.5	87.6	75.3	109.6	94.2	131.5
8'-0"	-	5'-6"	39.5	34.0	59.8	51.0	79.7	68.0	97.6	84.9	119.5
	-	6'-0"	36.5	31.4	54.8	47.1	73.0	62.8	91.3	78.5	109.6
	1'-6"	3'-0"	68.4	58.8	103.0	88.2	137.3	117.6	171.7	147.1	180.0
	1'-9"	3'-6"	58.8	50.6	88.3	75.9	117.7	101.1	147.1	126.4	176.6
	2'-0"	4'-0"	51.5	44.3	77.3	66.4	103.0	88.6	128.8	110.7	154.4
	2'-3"	4'-6"	45.7	39.3	68.6	59.0	91.6	78.6	113.2	98.3	137.3
8'-6"	2'-6"	5'-0"	41.2	35.4	61.9	53.1	82.3	70.9	103.0	88.6	123.6
	-	5'-6"	37.1	31.9	56.2	47.9	74.9	63.8	91.7	79.8	112.3
	-	6'-0"	34.3	29.5	51.2	44.2	68.6	59.0	85.8	73.7	103.0
	1'-6"	3'-0"	64.3	55.3	96.9	82.9	129.1	110.6	161.4	138.2	180.0
	1'-9"	3'-6"	55.3	47.6	83.0	71.3	110.6	95.1	138.3	118.9	166.0
	2'-0"	4'-0"	47.9	41.2	72.7	61.8	96.8	82.4	121.0	103.0	165.1
9'-0"	2'-3"	4'-6"	43.0	37.0	64.5	55.7	86.1	74.0	106.4	92.5	129.1
	2'-6"	5'-0"	38.7	33.3	58.2	49.9	77.4	66.6	96.8	83.2	116.2
	-	5'-6"	34.9	30.0	52.8	45.0	70.4	60.0	86.2	75.0	105.6
	-	6'-0"	32.2	27.7	48.1	41.5	64.5	55.4	80.7	69.2	96.8
	1'-6"	3'-0"	60.4	51.9	91.1	77.9	121.4	103.8	151.7	129.9	180.0
	1'-9"	3'-6"	52.0	44.7	78.0	67.1	104.0	89.4	130.0	111.8	156.0
9'-6"	2'-0"	4'-0"	45.0	38.7	68.3	58.1	91.0	77.4	113.7	96.8	136.3
	2'-3"	4'-6"	40.4	34.7	60.6	52.1	80.9	69.5	100.0	86.9	121.4
	2'-6"	5'-0"	36.4	31.3	54.7	47.0	72.8	62.6	91.0	78.2	109.2
	-	5'-6"	32.8	28.2	49.6	42.3	66.2	56.4	81.0	70.5	99.3
	-	6'-0"	30.3	26.1	45.2	39.1	60.6	52.1	75.9	65.1	91.0
	-	6'-0"	30.3	26.1	45.2	39.1	60.6	52.1	75.9	65.1	91.0

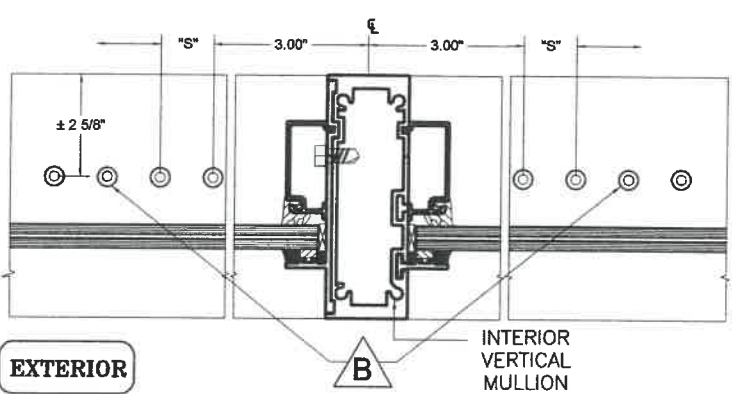
* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

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 & W/ MIN. (3) THREADS PASSED
BEYOND STEEL THICKNESS.

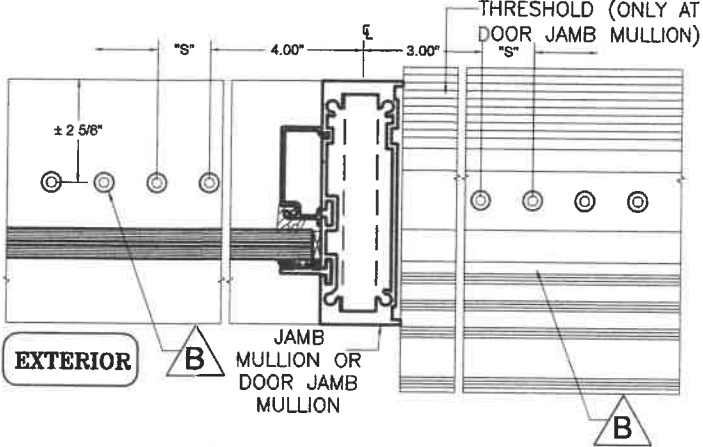
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT
INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



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**

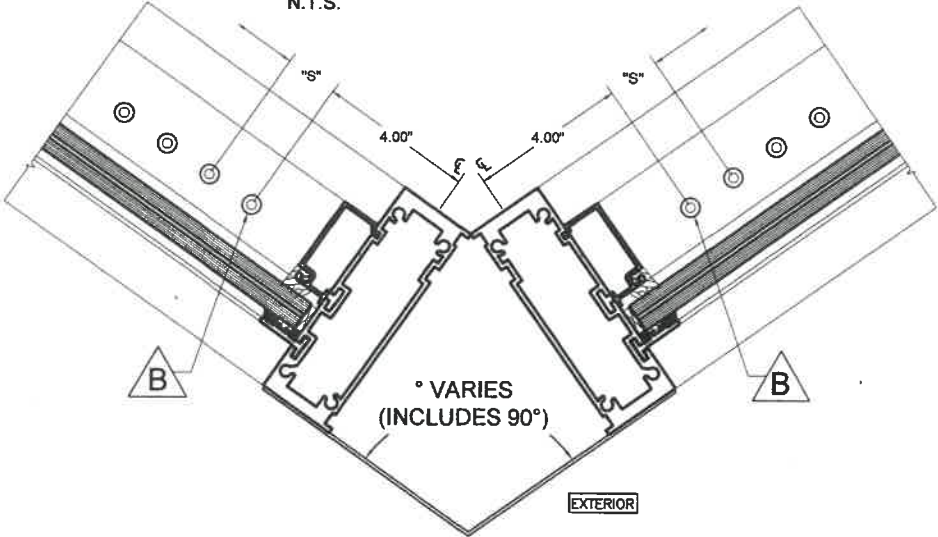
(PLAN VIEW)
N.T.S.



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.

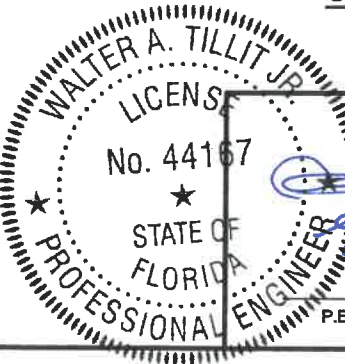


n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT CORNER, EQUALLY INSTALLED W/ (n/2) AT EACH SIDE OF CORNER MULLION

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

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DRAWING No

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1	OLD 19-028	9/17/20	2	-	-

SHEET 10 OF 22

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	A & B	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	87.1
	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	83.6
	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

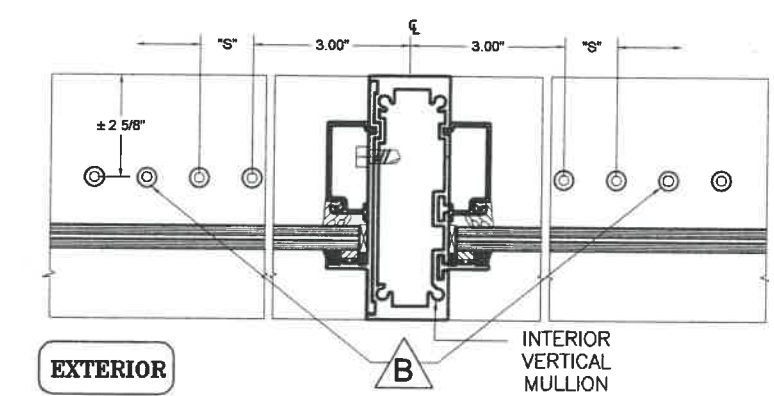
* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

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 & W/ MIN. (3) THREADS PASSED
BEYOND STEEL THICKNESS.

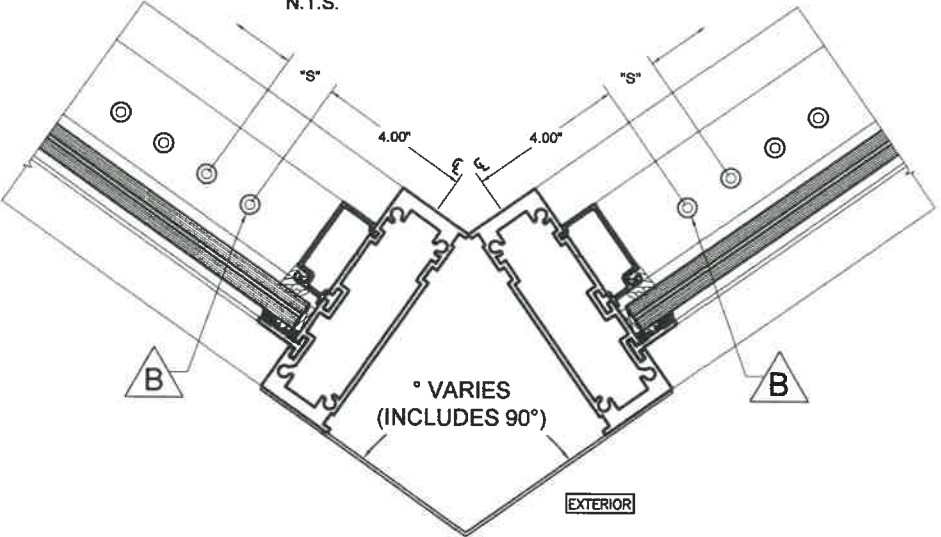
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT
INTO WOOD ($G=0.55$) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



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**

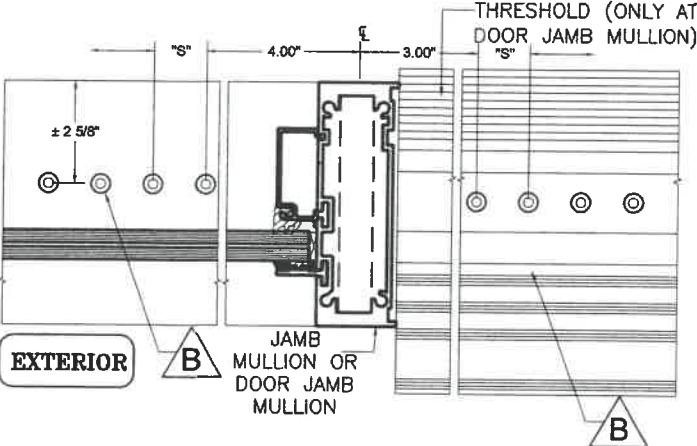
(PLAN VIEW)
N.T.S.



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

SILL OR HEAD CONNECTION DETAIL @ CORNER MULLION

(PLAN VIEW)
N.T.S.

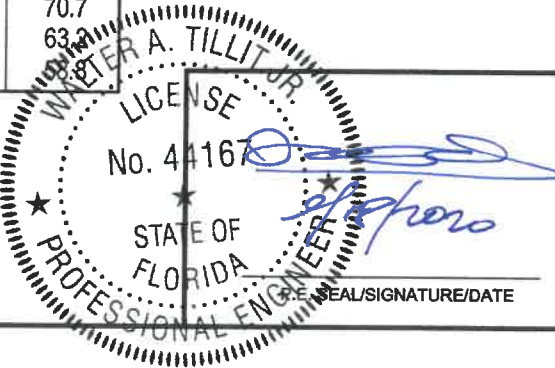


n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

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

(PLAN VIEW)
N.T.S.

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



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1 OLD 18-028 9/17/20 2 - -
M.P. DRAWN BY: 9/17/2020 DATE 20-276 DRAWING No. SHEET 10A OF 22

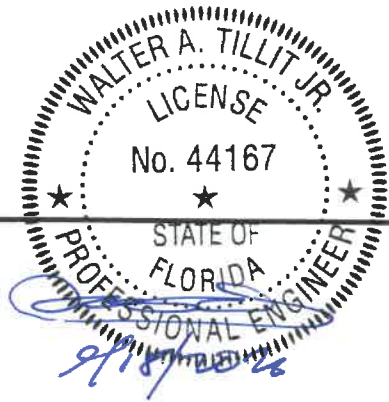
MAX. ANCHOR SPACING FOR ATTACHED JAMB MULLION "A" TO EXISTING STRUCTURE GIVEN A.S.D DESIGN WIND LOAD AND EFFECTIVE SPACING "b" TO BE USED WHEN FREE STANDING MULLION "A" (NOT ATTACHED TO STRUCTURE) CANNOT MEET THE REQUIRED SPAN "L" FOR A GIVEN A.S.D DESIGN WIND LOAD *

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	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 & 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.



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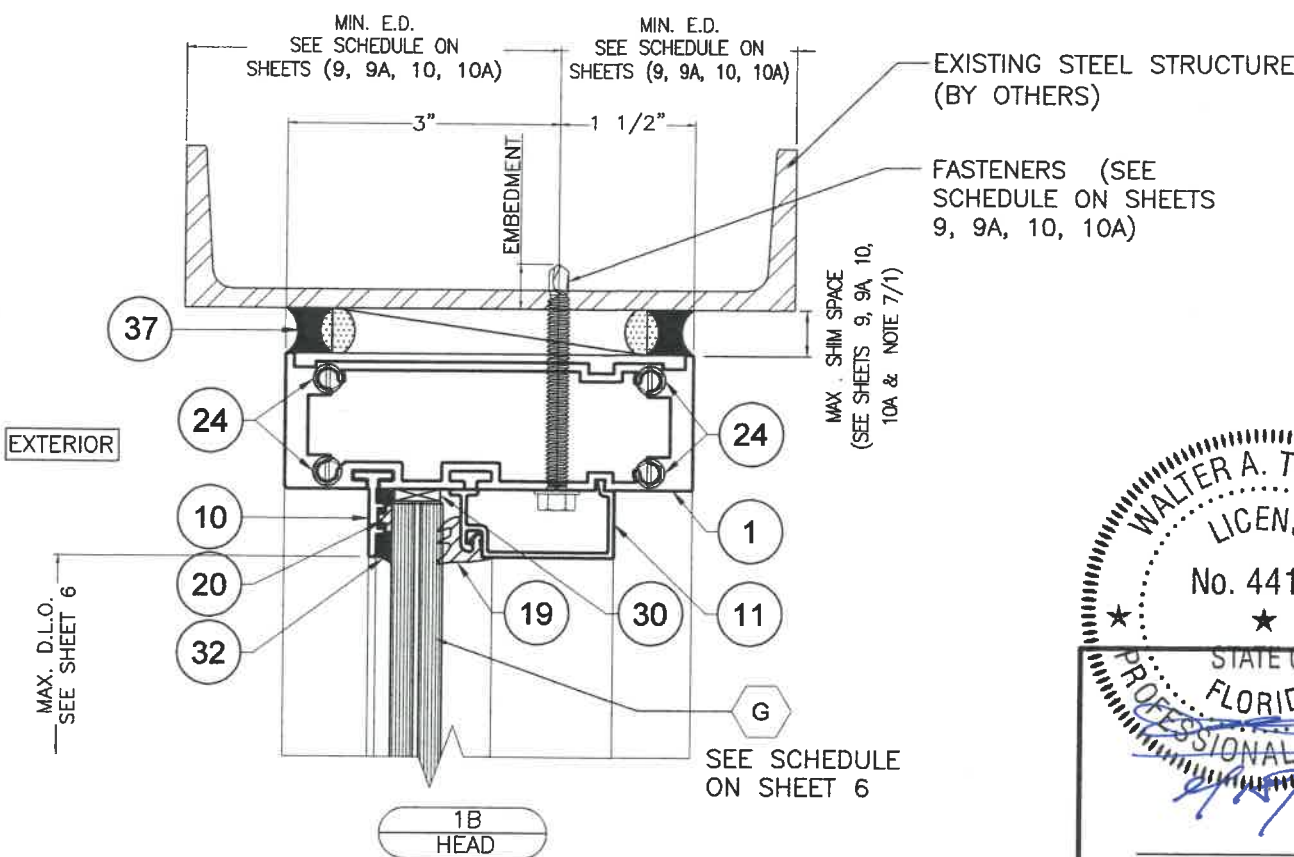
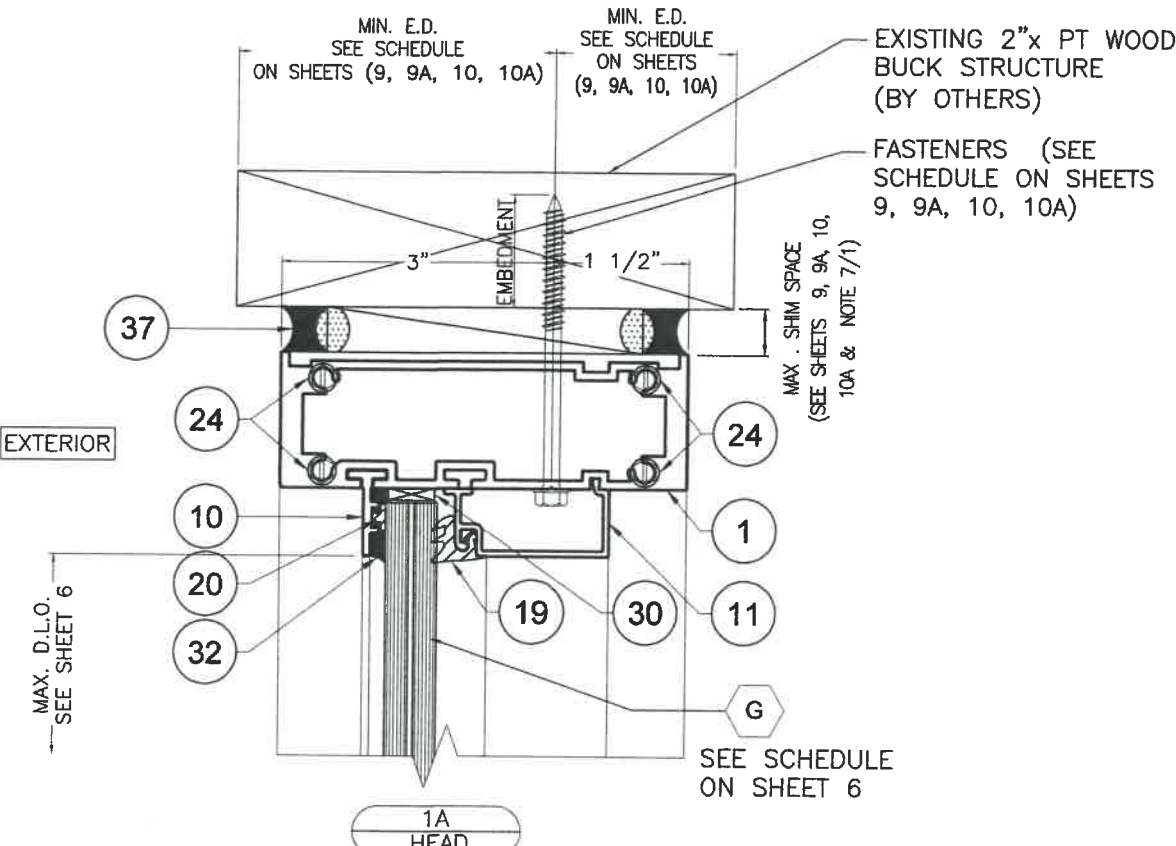
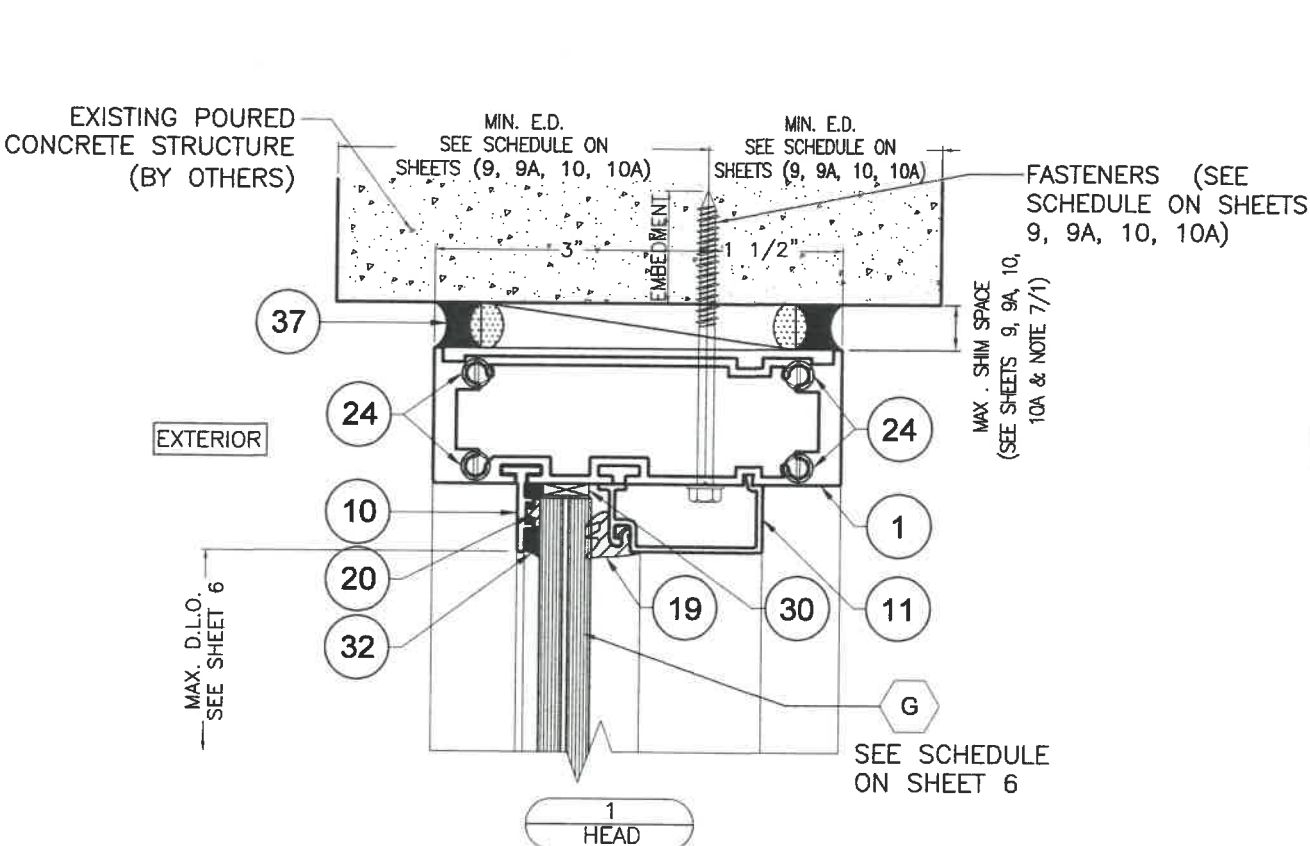
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HEAD CONNECTION DETAILS W/ LAMINATED GLASS



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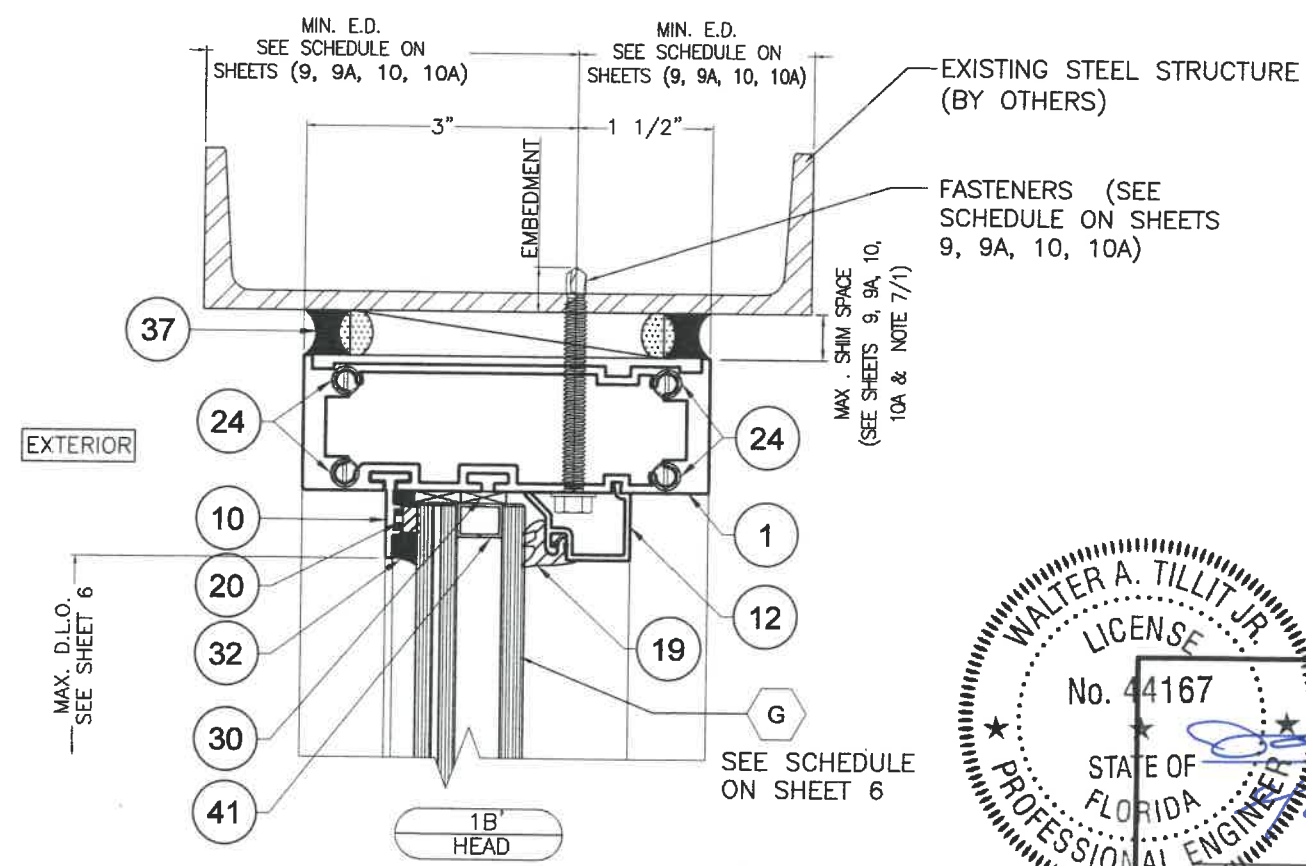
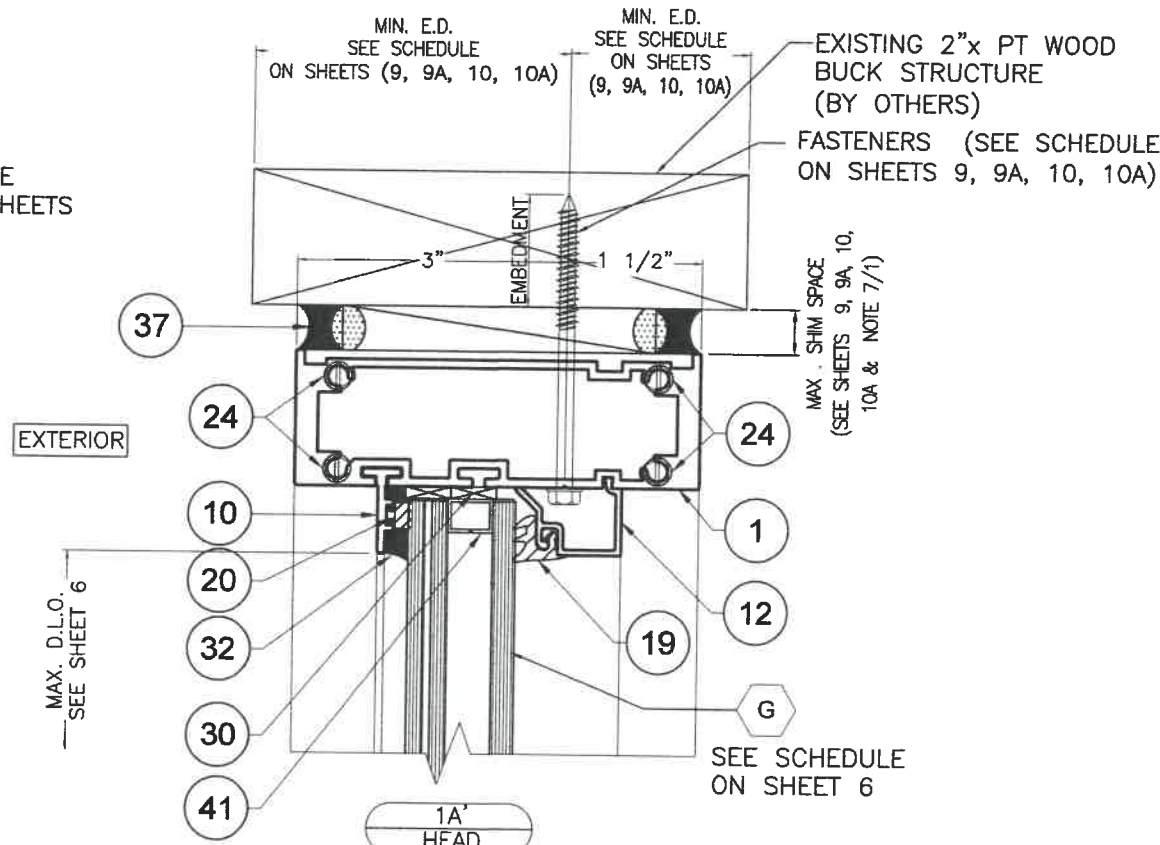
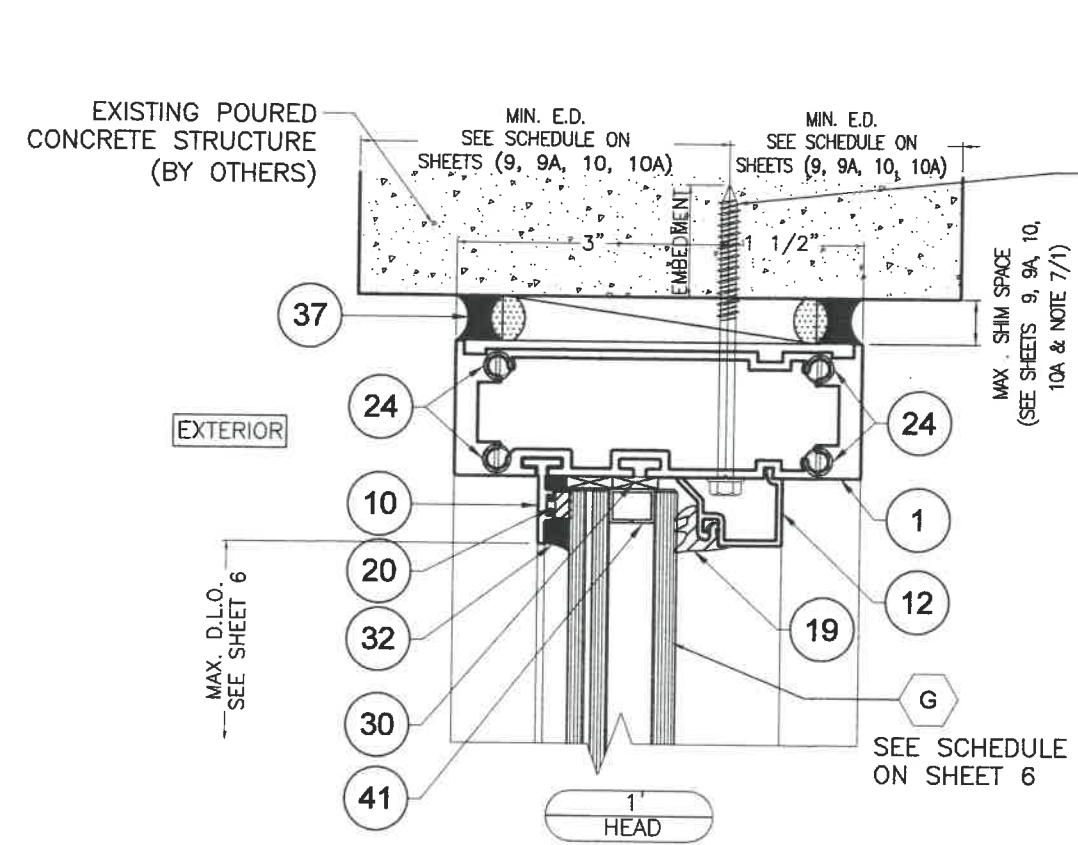
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SHEET 12 OF 22

HEAD CONNECTION DETAILS W/ INSULATED GLASS



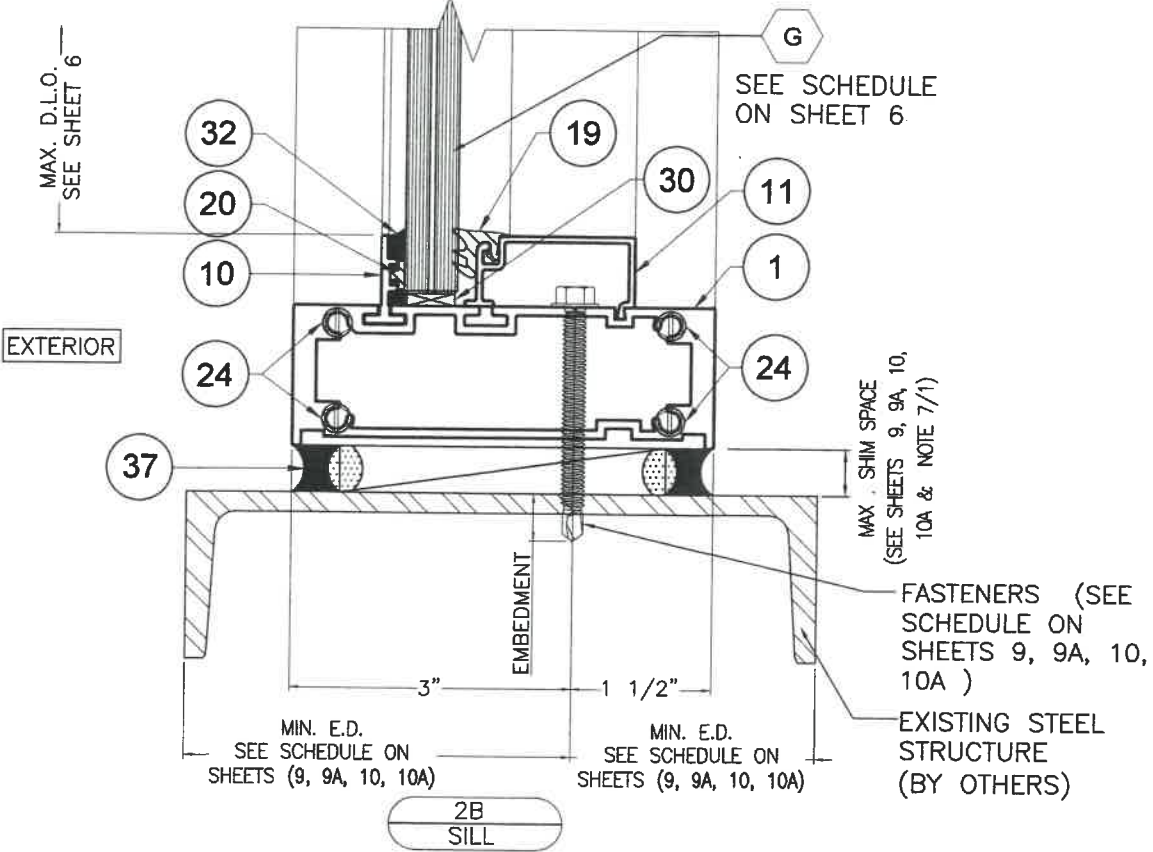
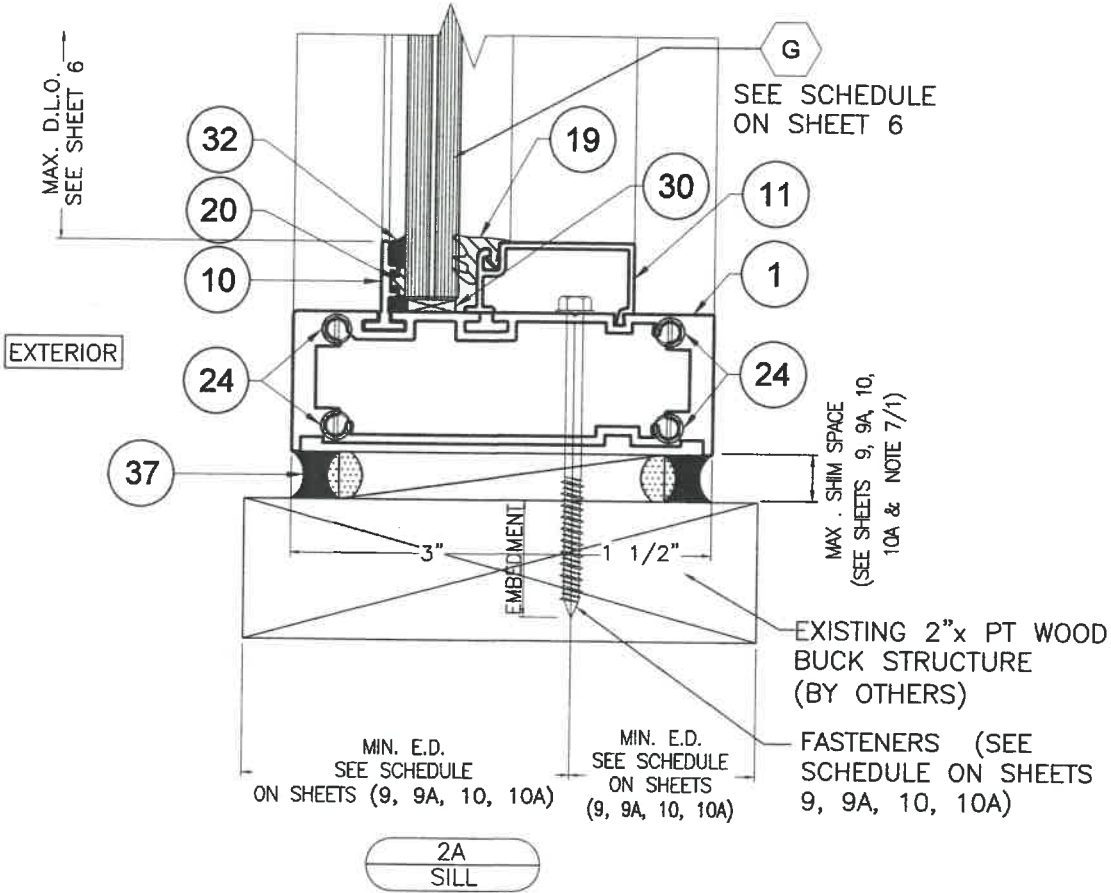
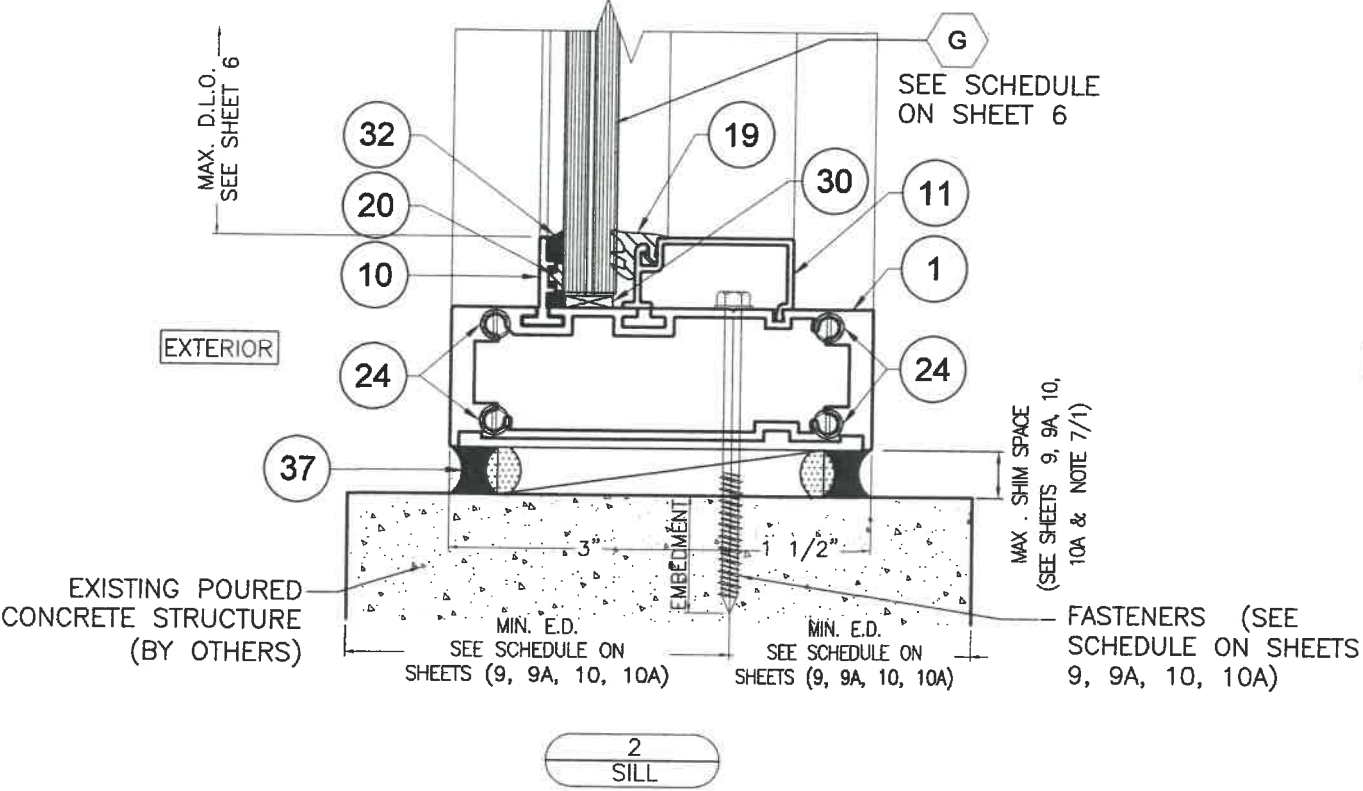
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SILL CONNECTION DETAILS W/ LAMINATED GLASS



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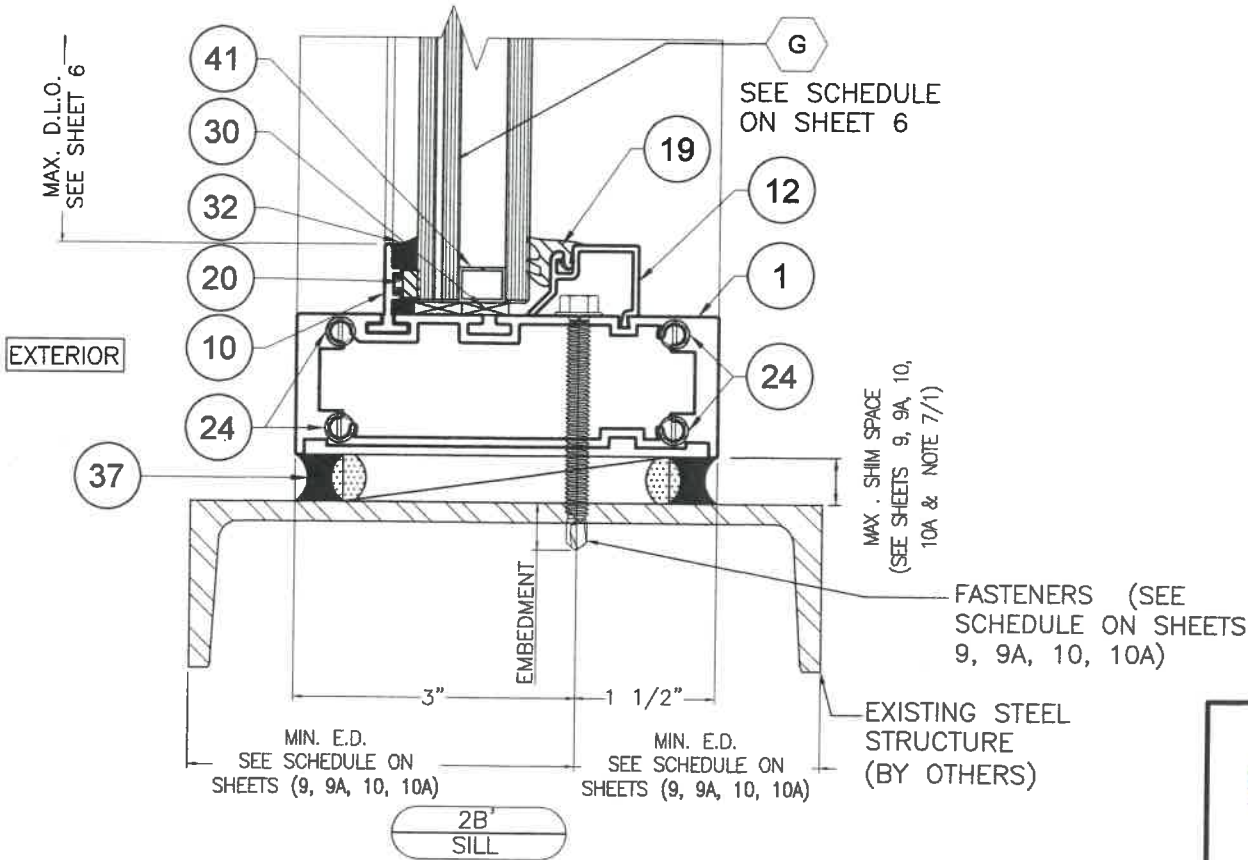
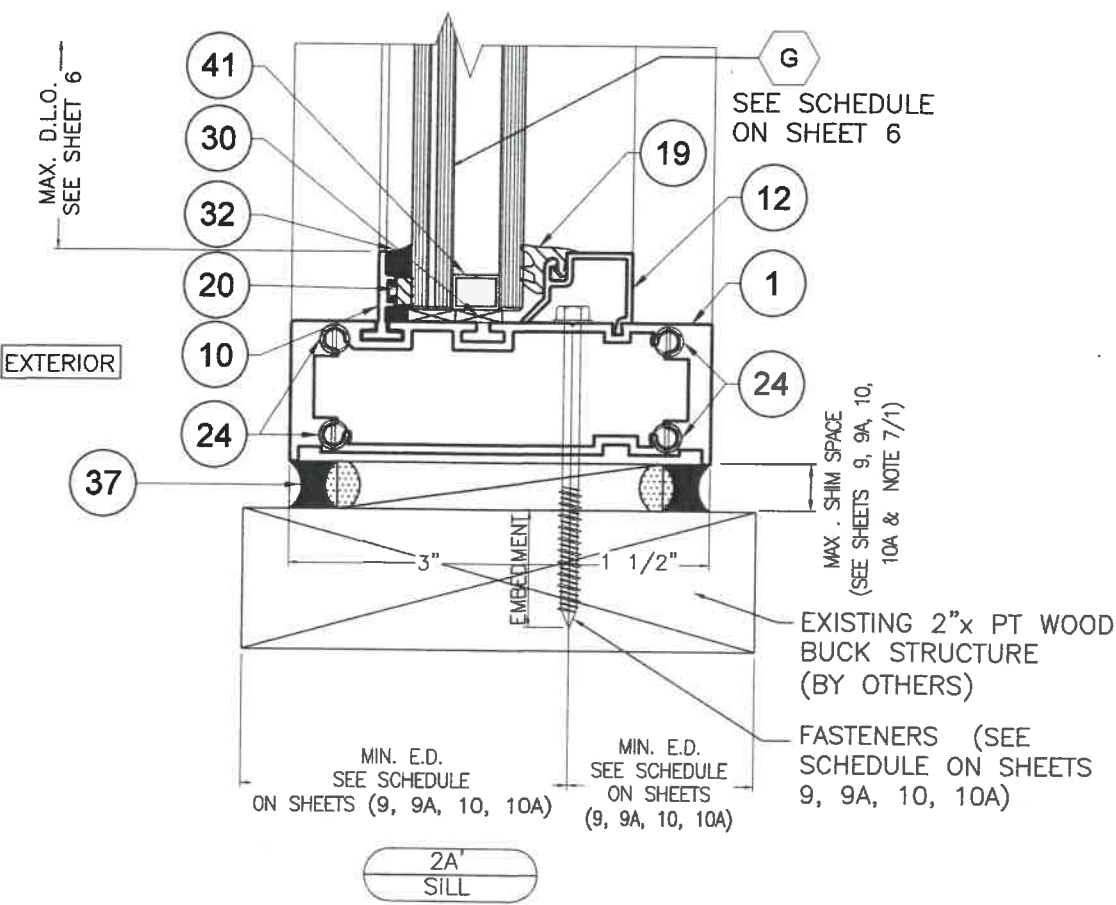
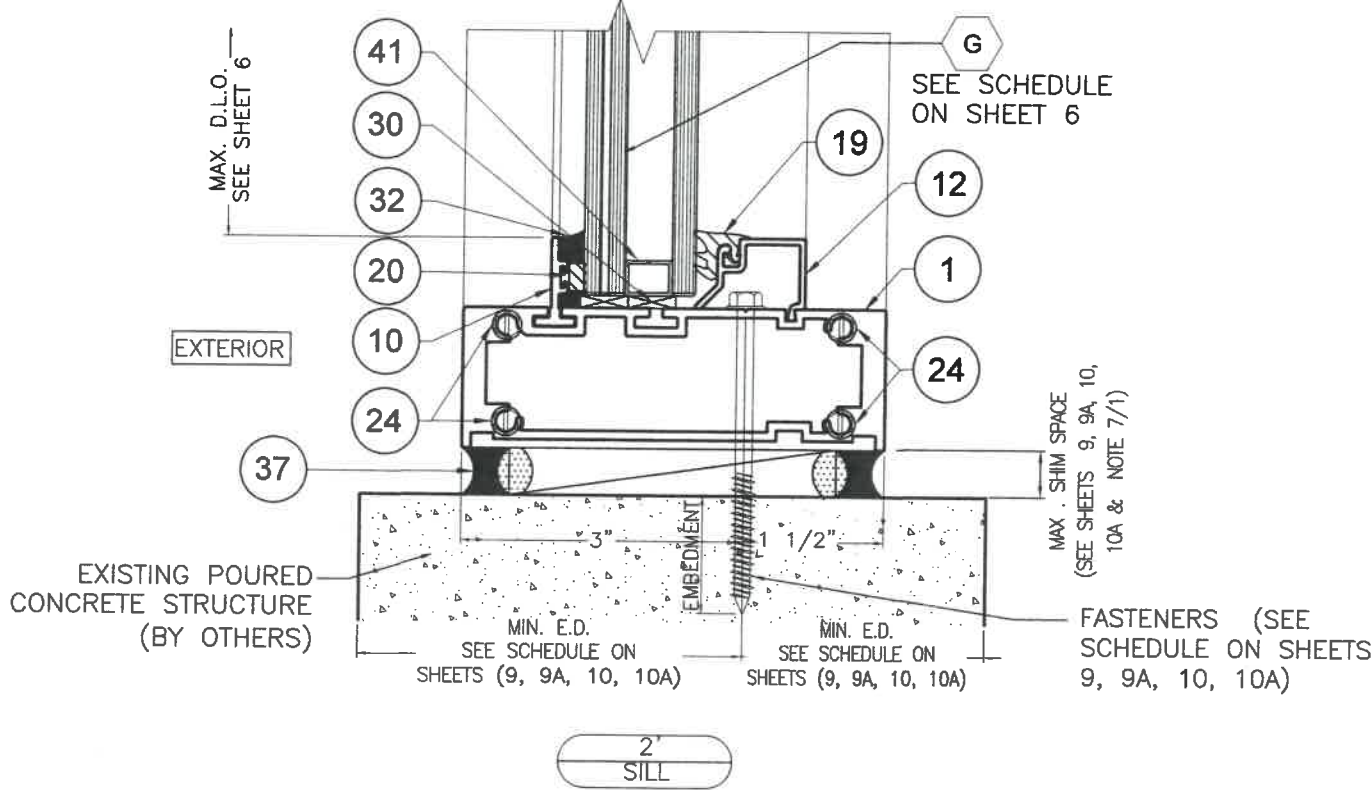
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SILL CONNECTION DETAILS W/ INSULATED GLASS



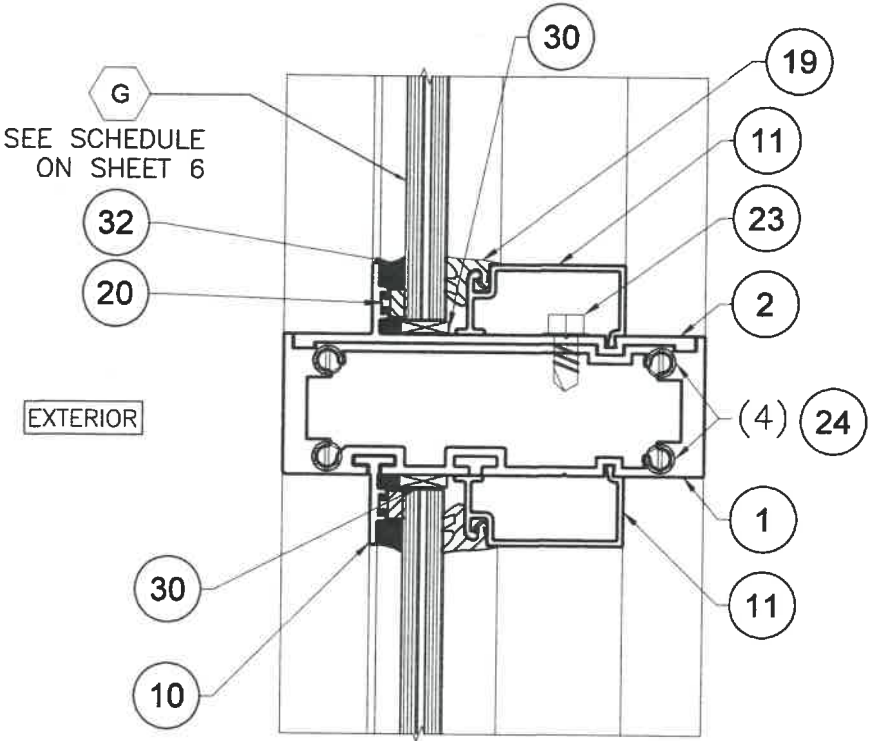
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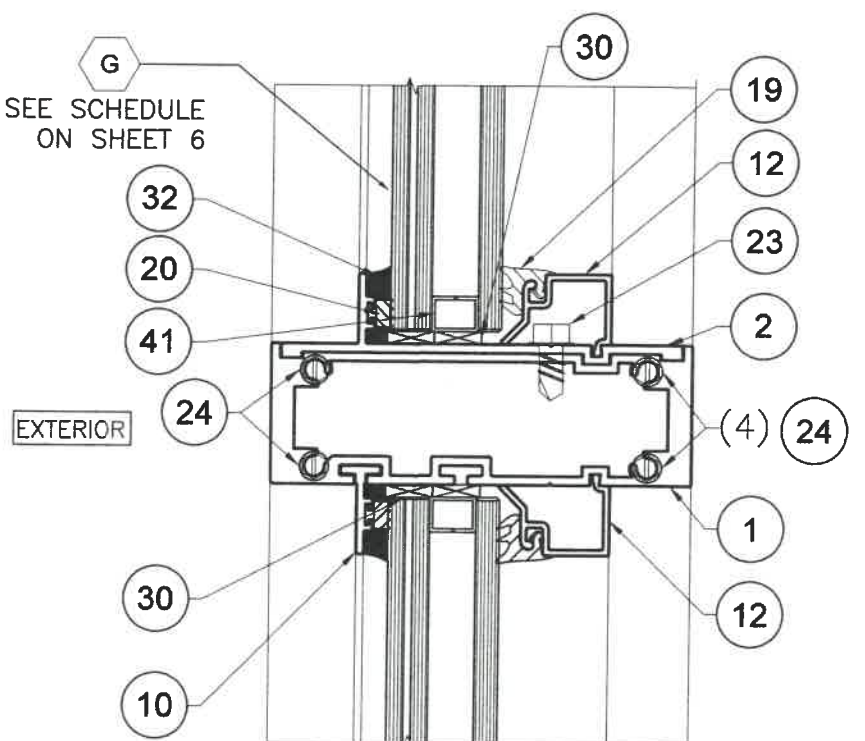
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HORIZONTAL MULLION DETAILS



3
HORIZONTAL MULLION
W/ LAMINATED GLASS



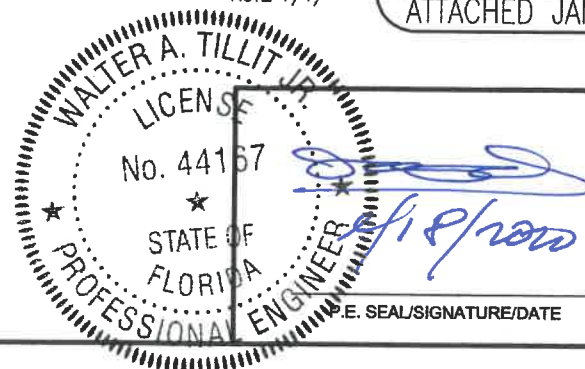
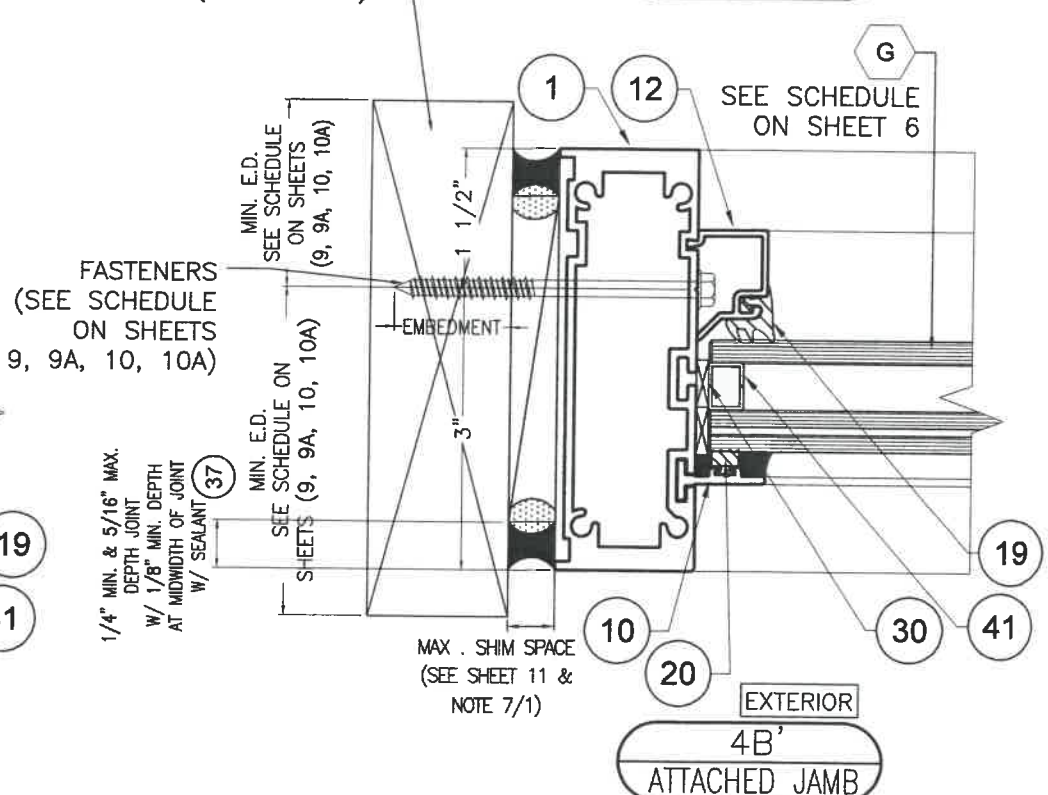
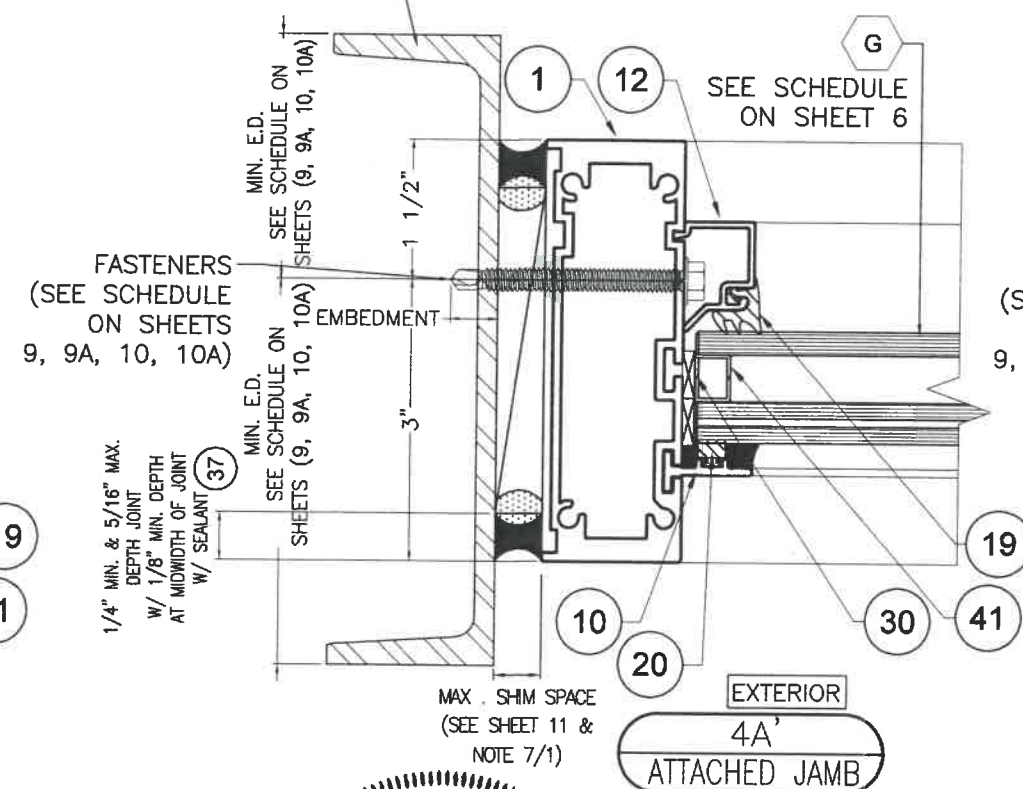
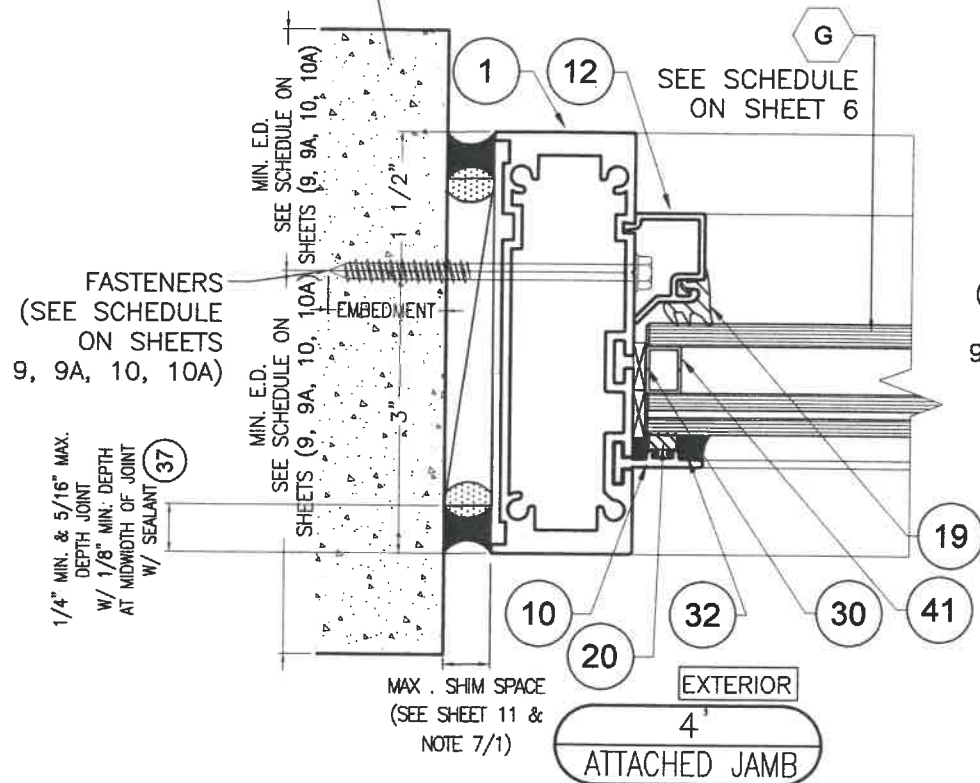
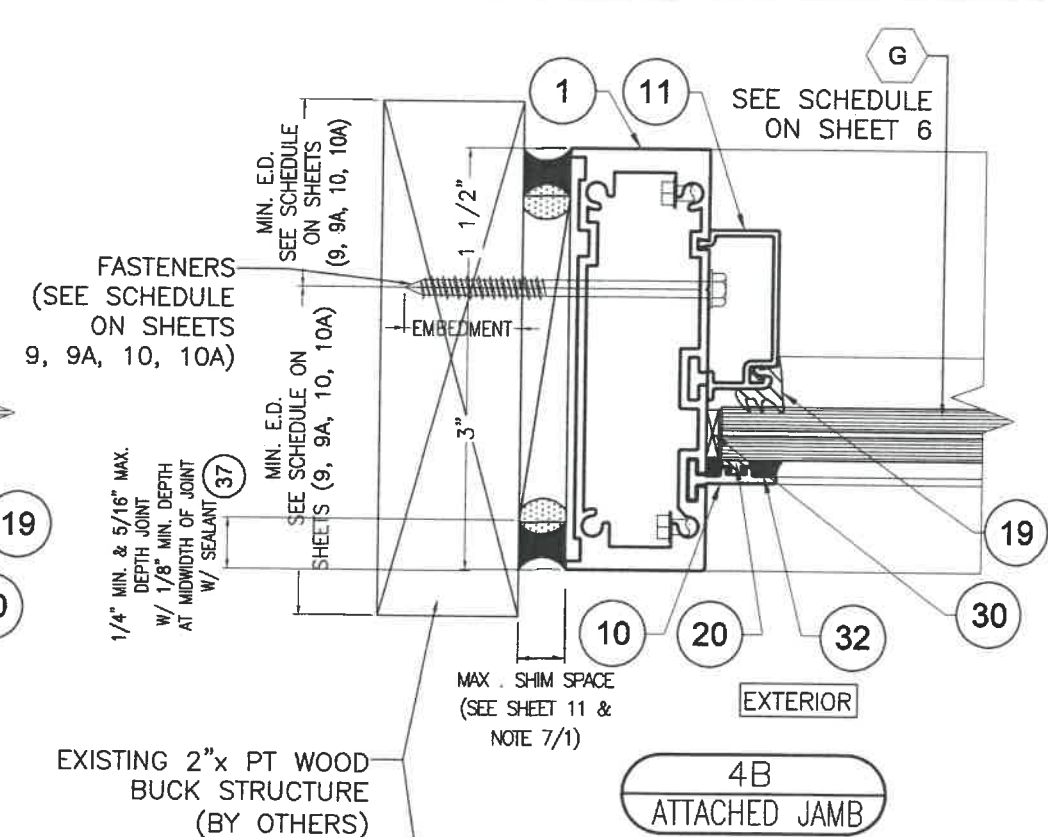
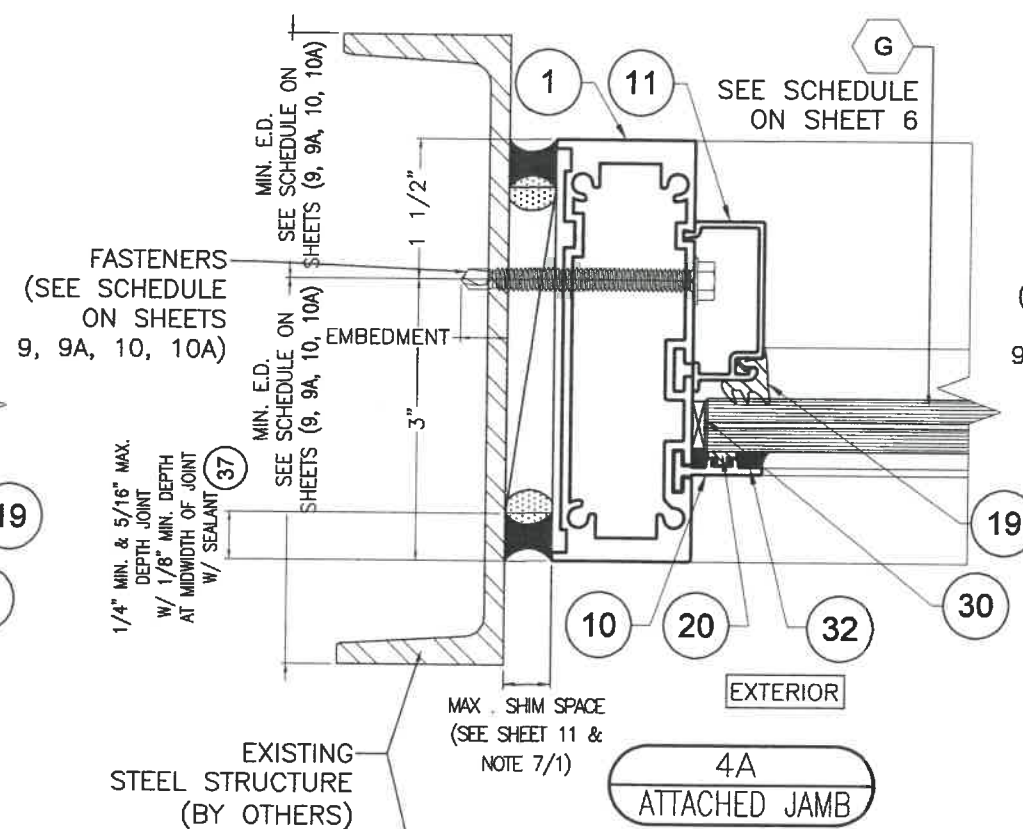
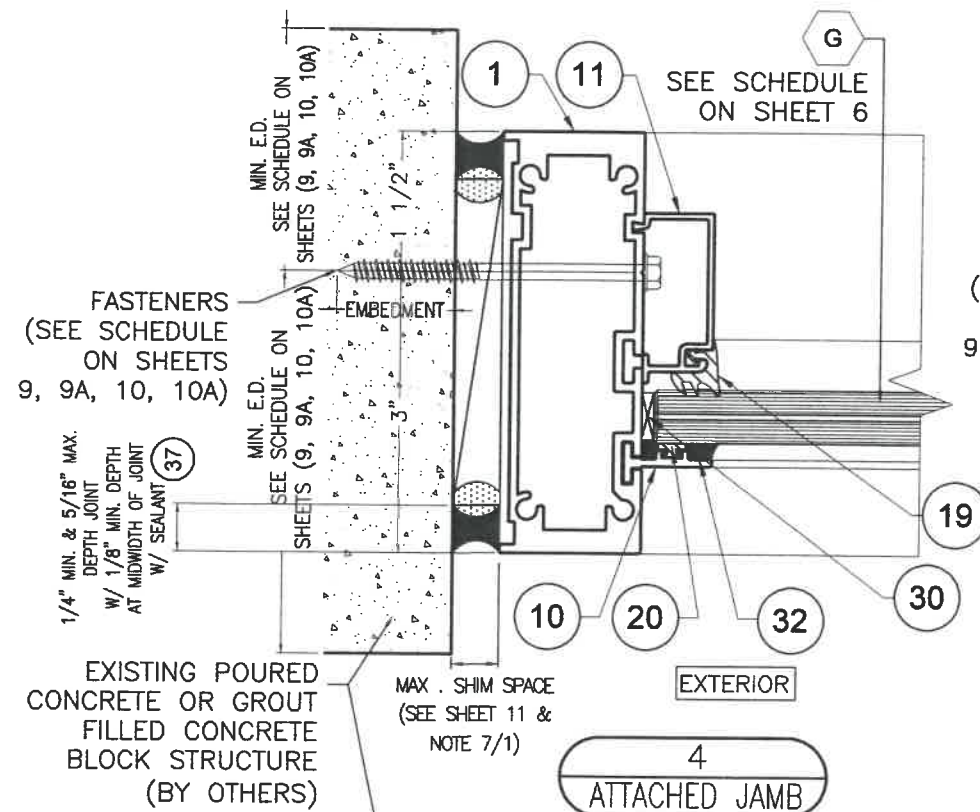
3'
HORIZONTAL MULLION
W/ INSULATED GLASS

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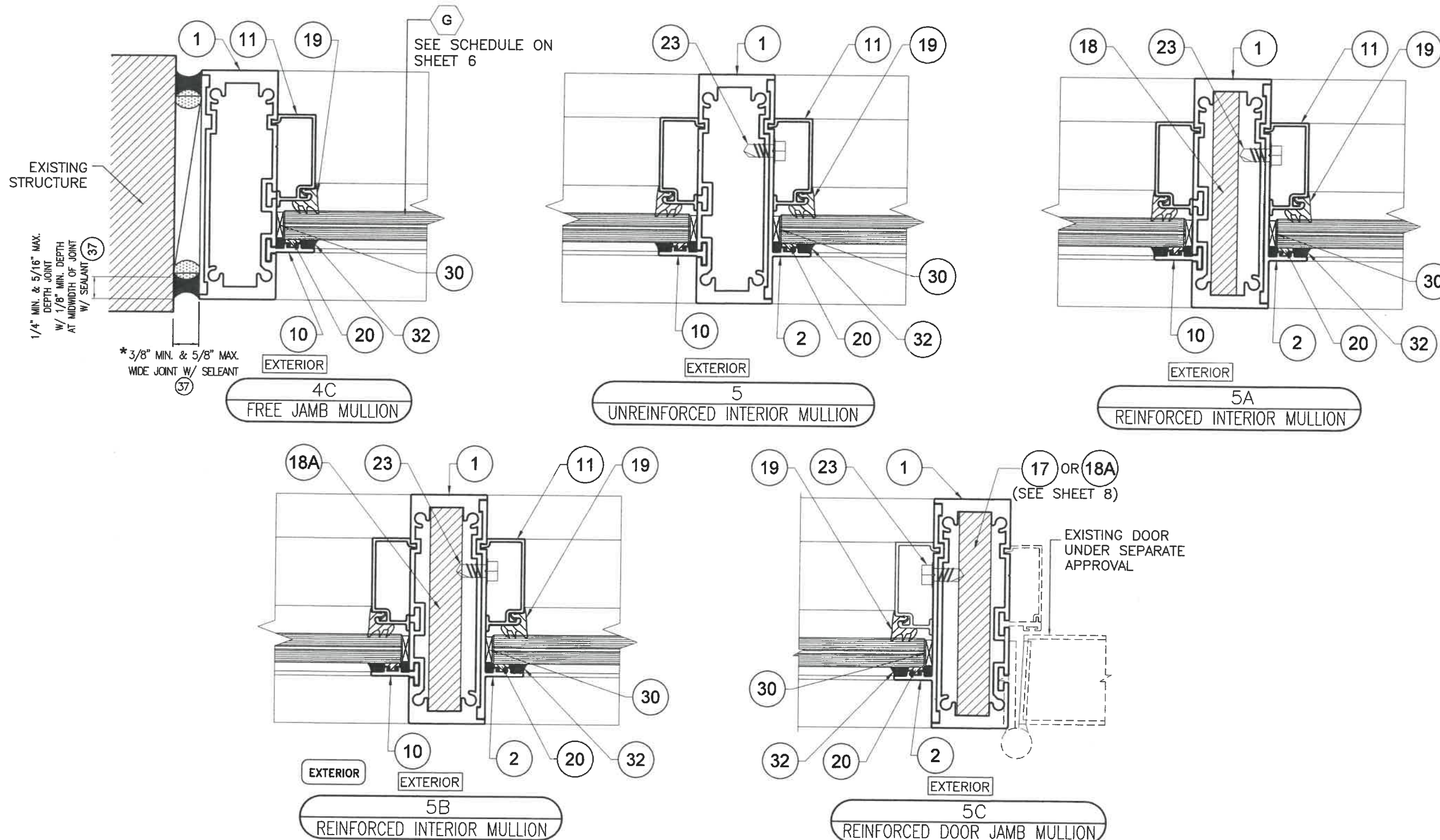
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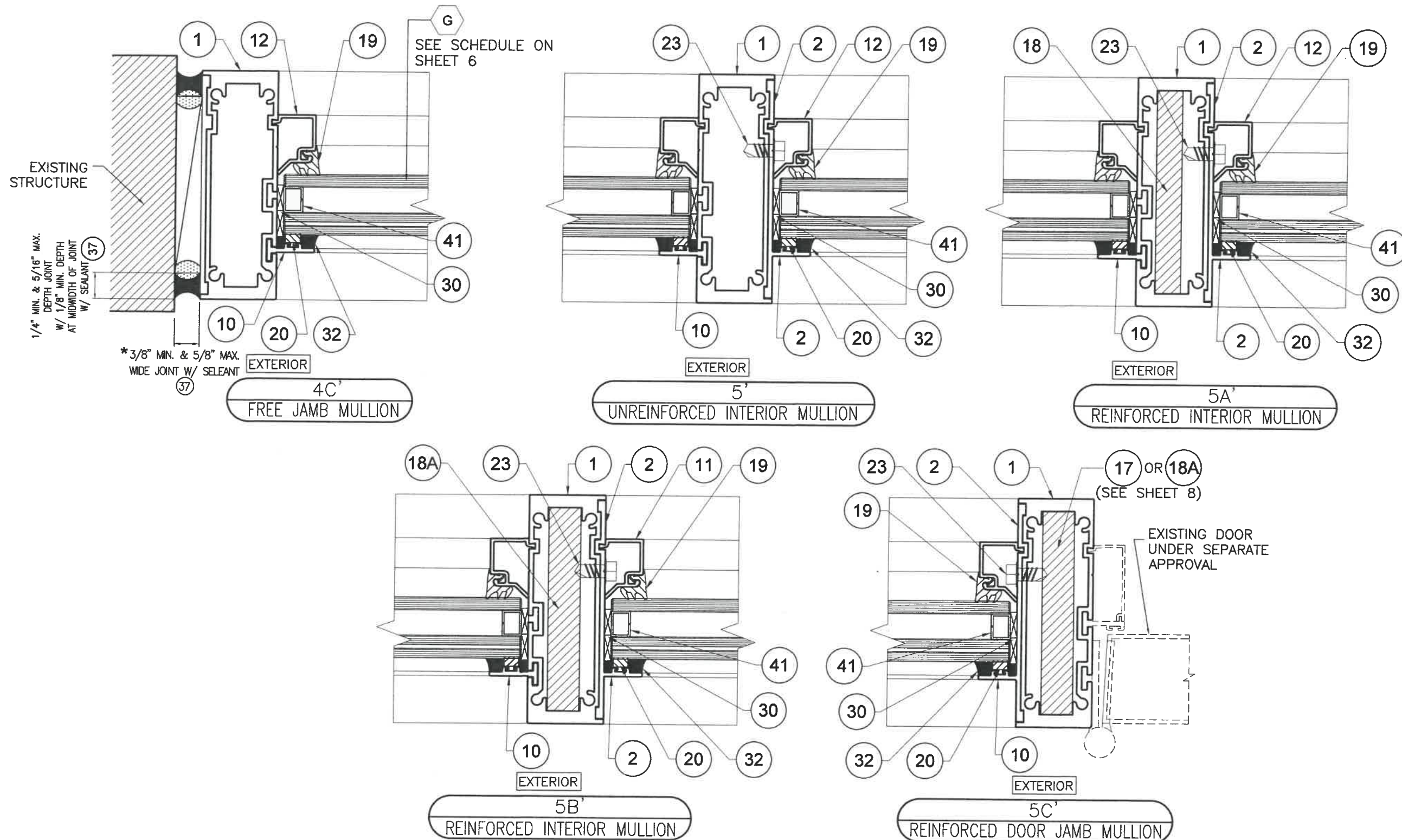
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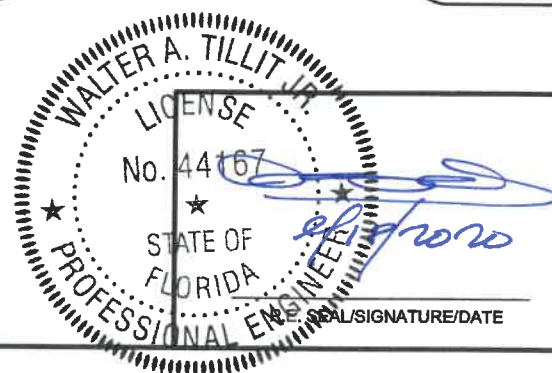
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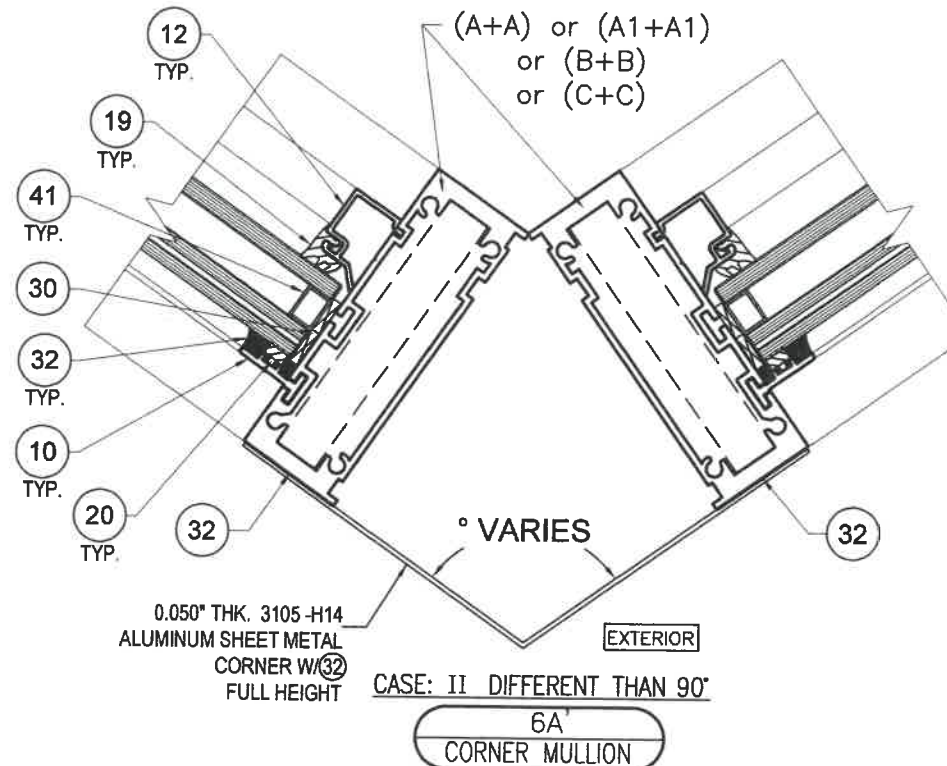
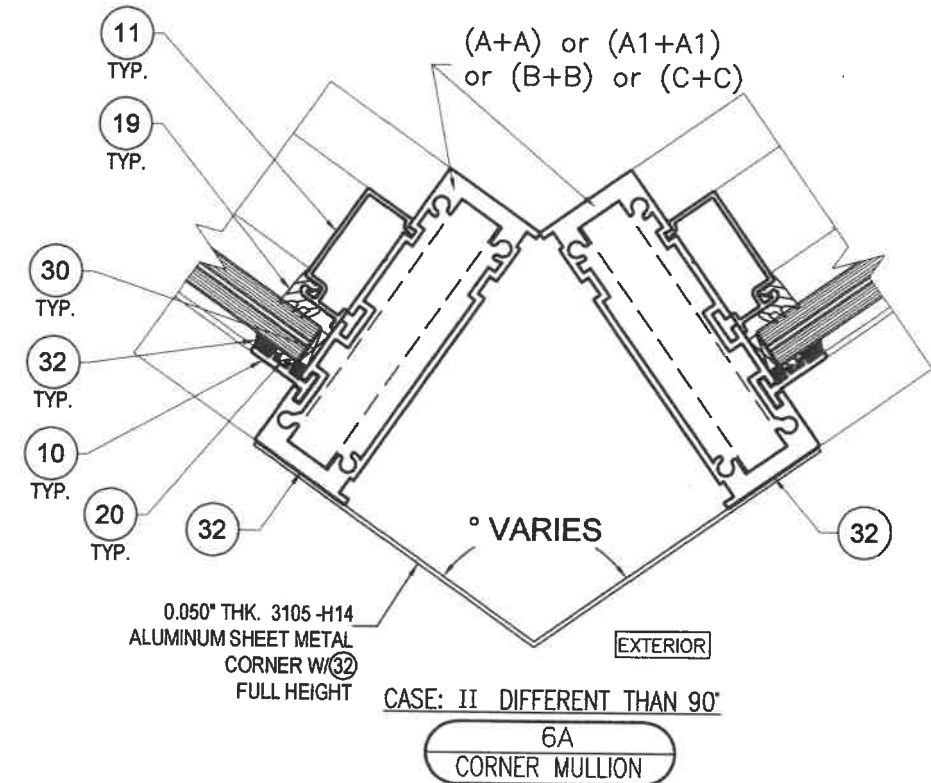
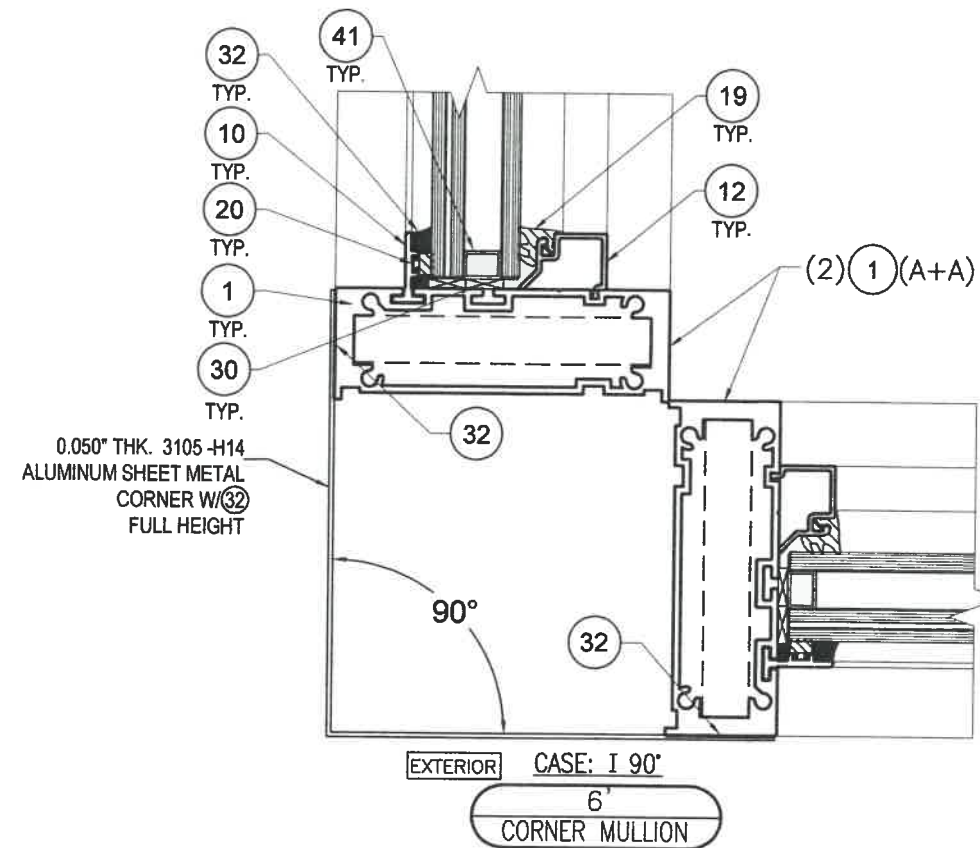
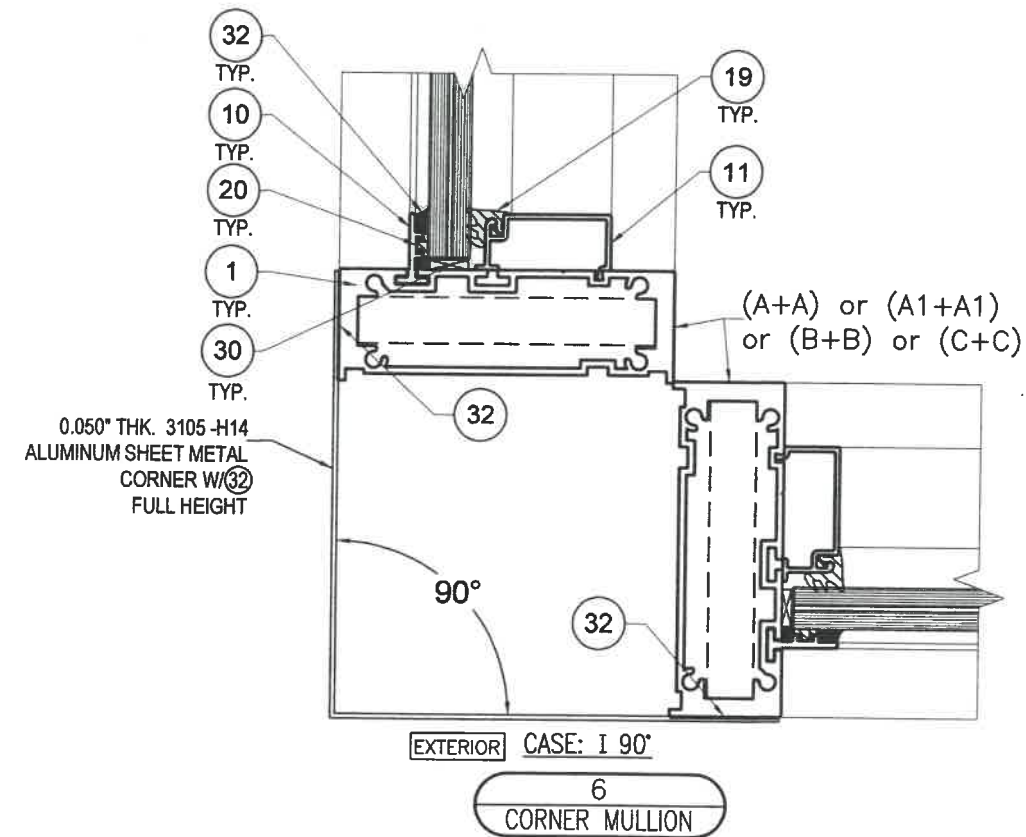
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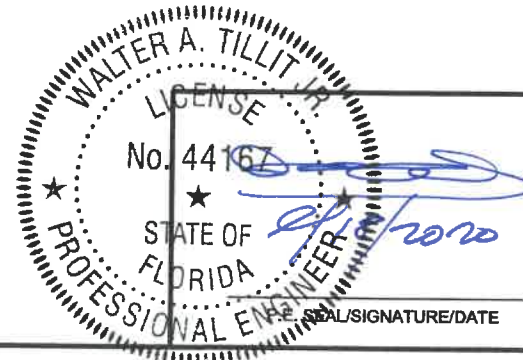
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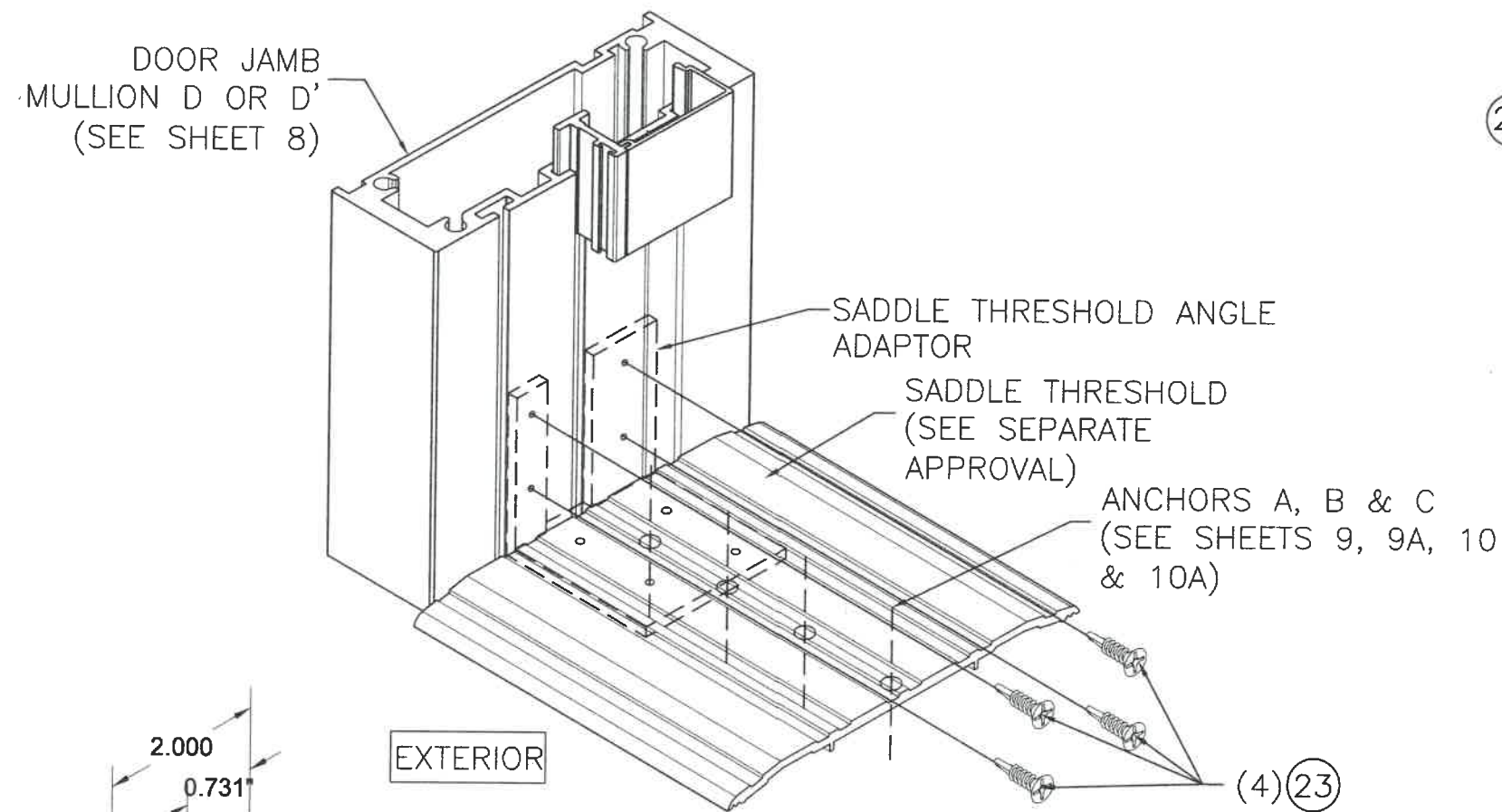


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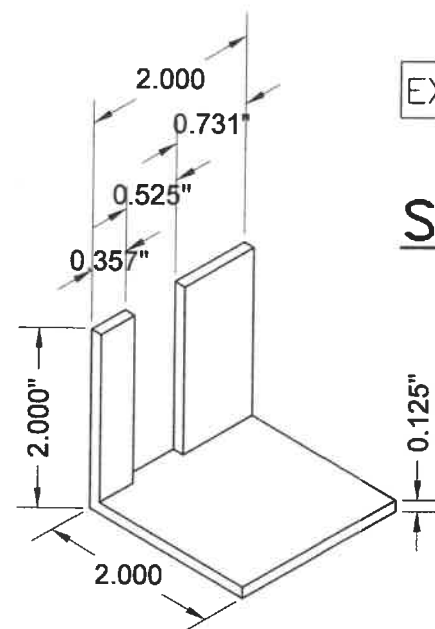
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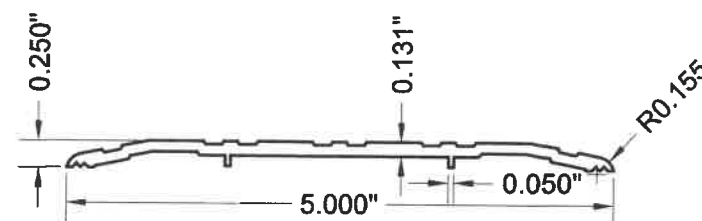


SADDLE THRESHOLD ASSEMBLY ISOMETRIC



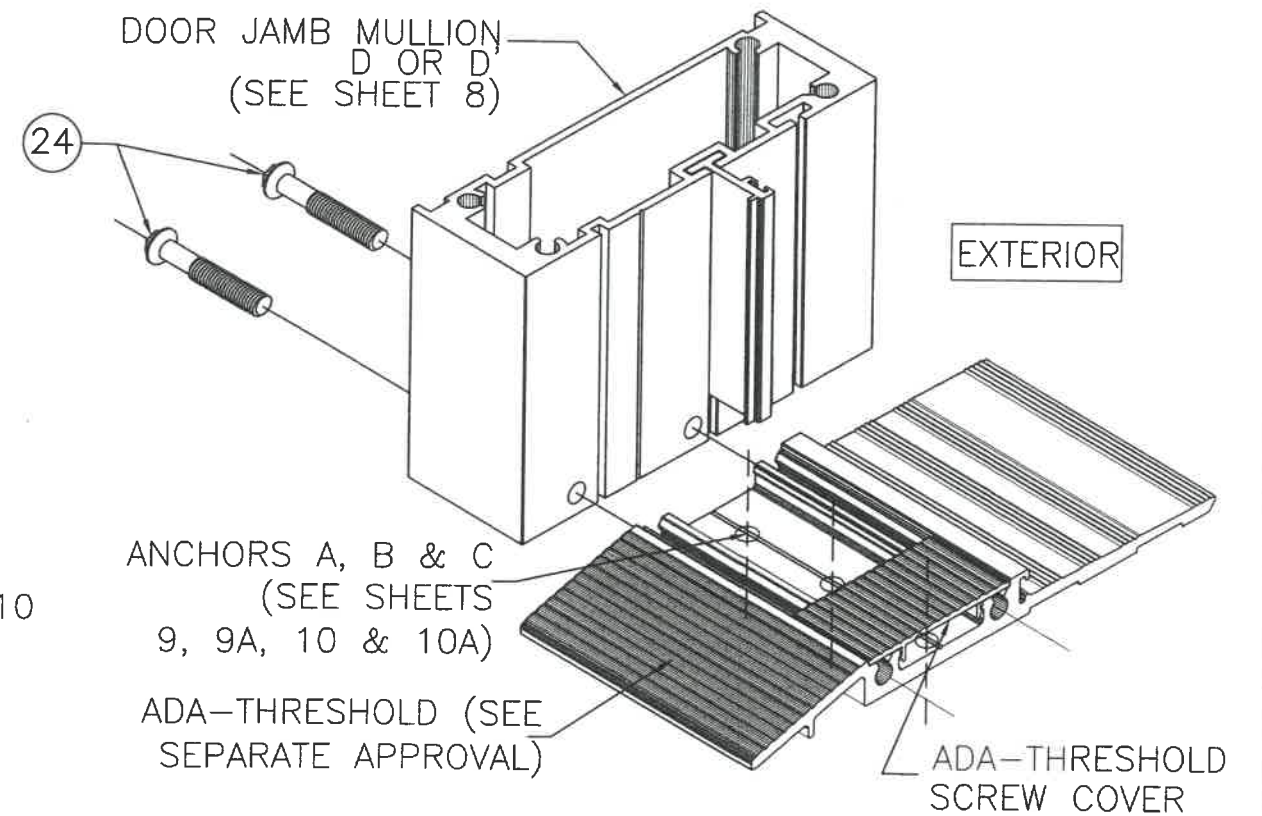
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6063-T52 ALLOY

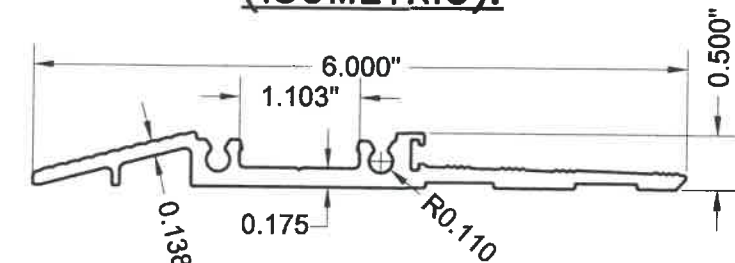


SADDLE THRESHOLD (SEE SEPARATE APPROVAL)

6063-T6 ALLOY

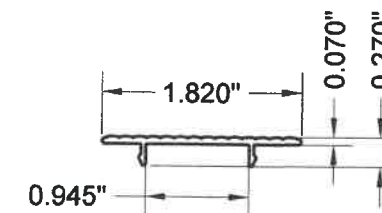


THRESHOLD ASSEMBLY (ISOMETRIC).



ADA-THRESHOLD (SEE SEPARATE APPROVAL)

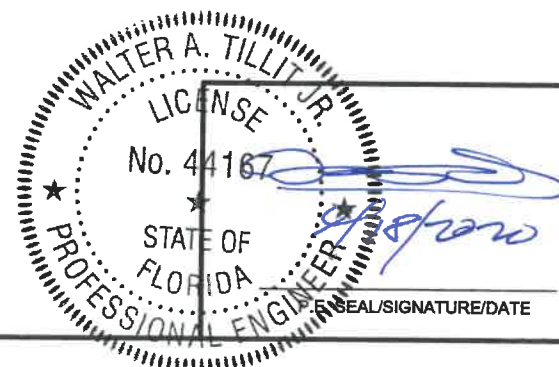
6063-T6 ALLOY



ADA-THRESHOLD SCREW COVER

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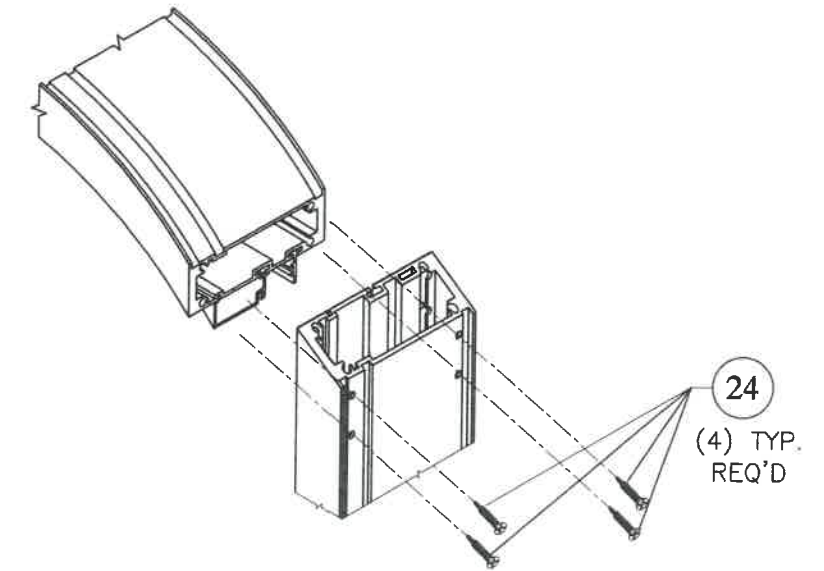
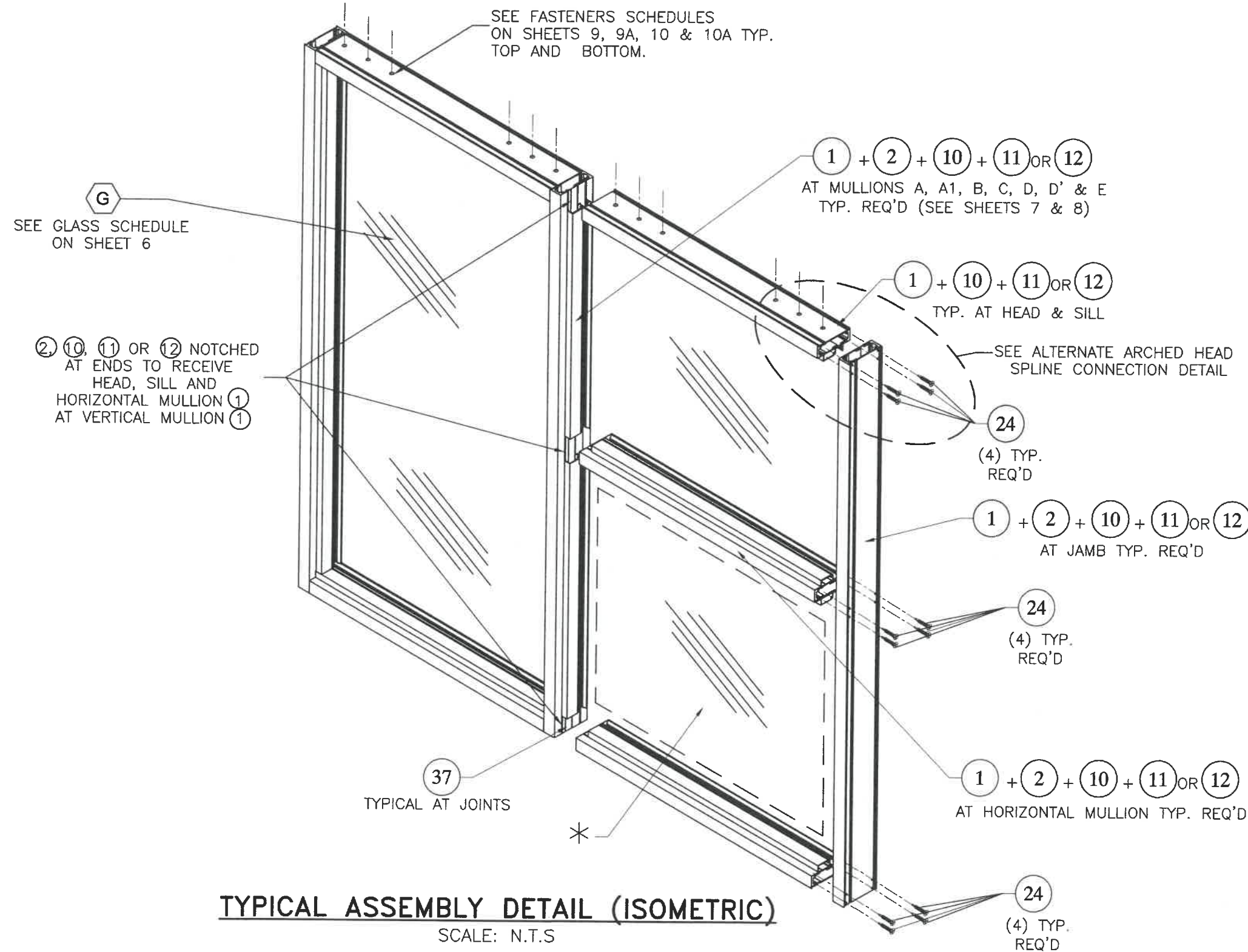
M.P
DRAWN BY:

9/17/2020
DATE

20-276
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-028	9/17/20	2	-	-

SHEET 21 OF 22



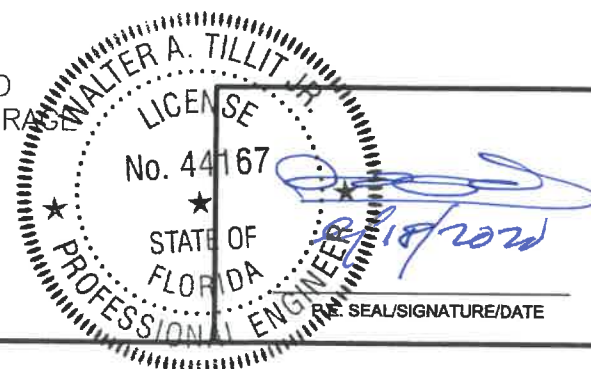
ARCHED HEAD SPLINE CONNECTION DETAIL

SCALE: N.T.S

TYPICAL ASSEMBLY DETAIL (ISOMETRIC)

SCALE: N.T.S

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



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

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

HIGH IMPACT SERIES JAZZ 70.000 STOREFRONT SYSTEM W/ LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS				M.P DRAWN BY:	
290 WEST 78 ROAD HIALEAH, FL 33014 PHONE: (305) 558-8103 FAX: (305) 558-6865 www.generalimpact.com				9/17/2020 DATE	
				20-276 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 18-028	9/17/20	2	-	-

SHEET 22 OF 22