

1. Gaviota ROLL-UP SHUTTER SYSTEM WITH GV-60 END RETENTION SLAT SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2026 (9th EDITION)** OF THE FLORIDA BUILDING CODE.
gaviota ROLL-UP SHUTTER SYSTEM SHALL **NOT** BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE / BROWARD COUNTIES).

2. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION **1609** OF THE ABOVE MENTIONED CODE USING **ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED BELOW AND ON SHEETS 8 THRU 11, 13 THRU 15, 17, 18 AND 19 THRU 21.
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 BELOW..

MAXIMUM A.S.D. DESIGN PRESSURE RATING + 60.0 psf, -60.0 psf, 9Lb, 2"X4" 50ft/Sec MISSILE.

IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAVE BEEN DETERMINED IN ACCORDANCE WITH ANSI/AWC NDS-2024. THIS PRODUCT ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER BLACKWATER TEST LAB. REPORT # BT-GIO-22-001 AS PER TAS-201, TAS-202 AND TAS-203 PROTOCOLS.

3. ALL ALUMINUM EXTRUSIONS SHALL BE AS INDICATED ON SHEET 2.

4. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

5. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES WITH 50 Ksi YIELD STRENGTH AND 90 Ksi TENSILE STRENGTH. ALL S.D.S. ARE TEK SCREWS MANUFACTURED BY ITW BUILDEX W/ SILVER CLIMASEAL & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTIONS 2411.3.3.4 & 1711.

6. BOLTS TO BE ASTM-307, GALVANIZED OR AISI 304 OR 316 SERIES STAINLESS STEEL WITH 36 Ksi MINIMUM YIELD STRENGTH.

7. ANCHORS TO WALL FOR © SIDE RAIL SHALL BE AS FOLLOWS:*

A) TO EXISTING POURED CONCRETE: MIN. 3000 p.s.i. COMPRESSIVE STRENGTH.
-5/16" Ø TAPCON XL W/ SILVER CLIMASEAL ANCHORS OR 5/16" Ø ULTRACONS AS MANUFACTURED BY ITW BUILDEX, INC. AND DEWALT, RESPECTIVELY.
-3/8" Ø S.S. KIWIK BOLT 3 ANCHORS AS MANUFACTURED BY HILTI, INC

A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE SHALL BE:
2 1/4" FOR 5/16" Ø TAPCON XL OR ULTRACON ANCHORS, 2 3/8" FOR 3/8" Ø KWIK BOLT 3 ANCHORS. NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.

A.2) MINIMUM EDGE DISTANCE (E.D.) INTO POURED CONCRETE SHALL BE:
3" FOR 5/16" Ø TAPCON XL & ULTRACONS & 4" FOR 3/8" Ø KIWIK BOLT3. EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.

A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.

B) TO EXISTING MIN. f_c=2 Ksi GROUT FILLED CELL CONCRETE BLOCK WALL: ASTM C-90
-5/16" Ø TAPCON XL W/ SILVER CLIMASEAL OR 5/16" Ø ULTRACON ANCHORS, AS MANUFACTURED BY ITW BUILDEX, INC. & DEWALT, RESPECTIVELY.
-3/8" Ø S.S. KWIK BOLT 3 ANCHORS AS MANUFACTURED BY HILTI INC.

B.1) MINIMUM EMBEDMENT OF 5/16"Ø TAPCON XL OR ULTRACON ANCHORS INTO GROUT FILLED CELL CONCRETE BLOCK UNIT SHALL BE 2 1/4" & 2 1/2" FOR HILTI BOLT 3.
NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.

B.2) MINIMUM EDGE DISTANCE (E.D.) OF 5/16"Ø TAPCON XL OR ULTRACON ANCHORS & KWIK BOLT 3 INTO GROUT FILLED CELL CONCRETE BLOCK SHALL BE 4". EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.

B.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICKS PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.

C) TO EXISTING WOOD FRAME BUILDING: SPRUCE PINE -FIR-SOUTH (G-036). DOUGLAS-FIR-SOUTH (G=0.46) OR SOUTHERN PINE # 2 (G=0.55) MIN.
-5/16" Ø TAPCON XL W/ SILVER CLIMASEAL OR MAXISET ANCHORS, AS MANUFACTURED BY ITW BUILDEX, INC. OR -5/16" Ø DEWALT ULTRACON OR 5/16" STAINLESS STEEL WOOD SCREWS.

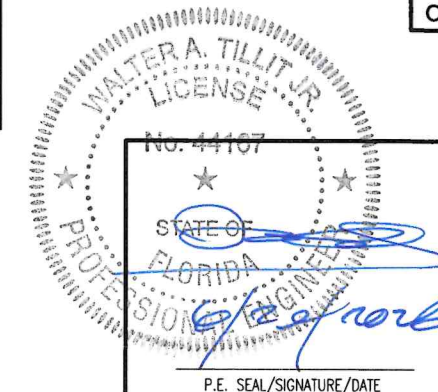
C.1) MINIMUM EMBEDMENT OF ANCHORS, INTO THE WOOD FRAME UNIT
SHALL BE 1 1/2" PHYSICAL THREADED PENETRATION.
NO EMBEDMENT INTO FINISH MATERIAL SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.

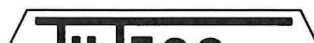
C.2) MINIMUM EDGE DISTANT (E.D.) OF ANCHORS, INTO WOOD SHALL BE 2 1/4". EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.

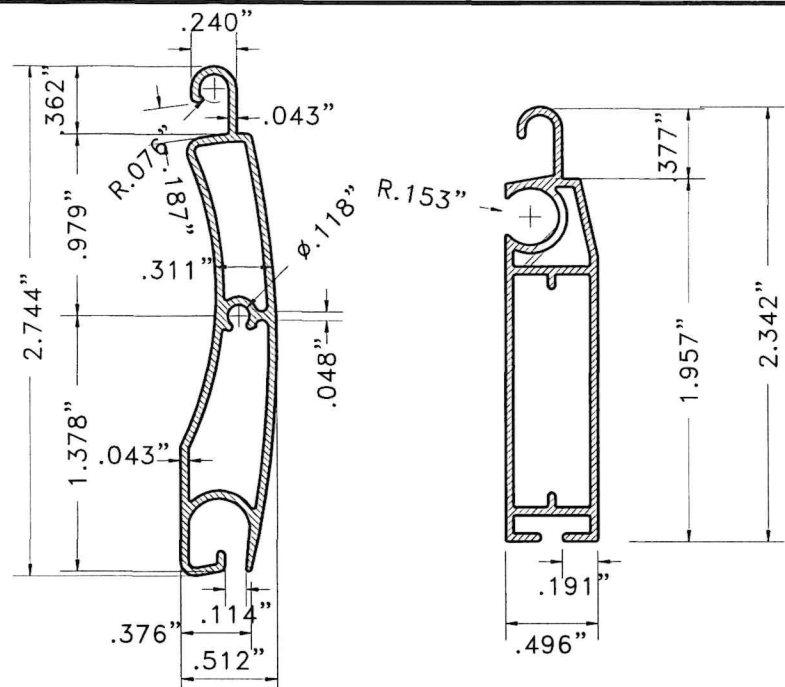
C.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.

* ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 ft FROM COASTAL SHORELINE.

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

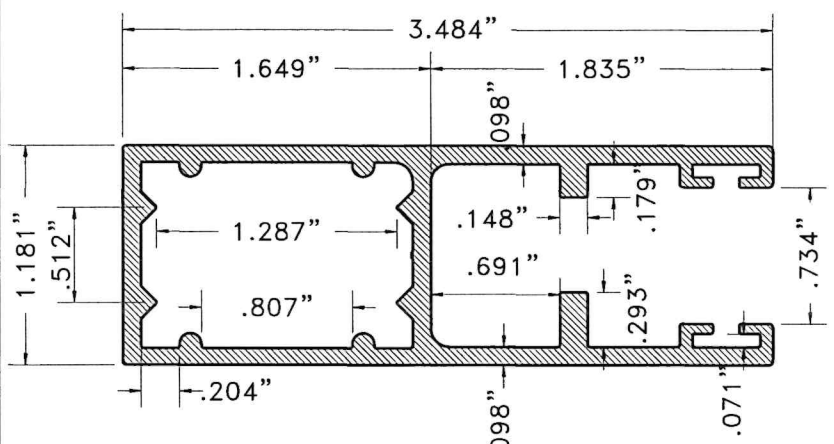


FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)											
©2026 TILTECO, INC.  TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 , Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167				ROLL-UP SHUTTER SYSTEM W/ GV-60 END RETENTION SLAT L.M.I						W.H. DRAWN BY:	
				 The Sun & Shutter Specialists Cerrada de Acolofencia 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510						6/19/2026 DATE:	
										26-045 DRAWING No.	
REV. NO		DESCRIPTION		DATE		REV. No		DESCRIPTION		DATE	
1		OLD 23-191		6/19/26		3		-		-	
SHEET 1 OF 21											

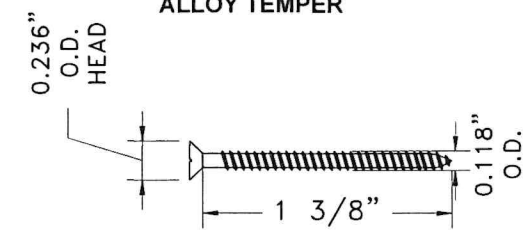


A GV-60 SLAT
6063-T5 ALUMINUM
ALLOY TEMPER

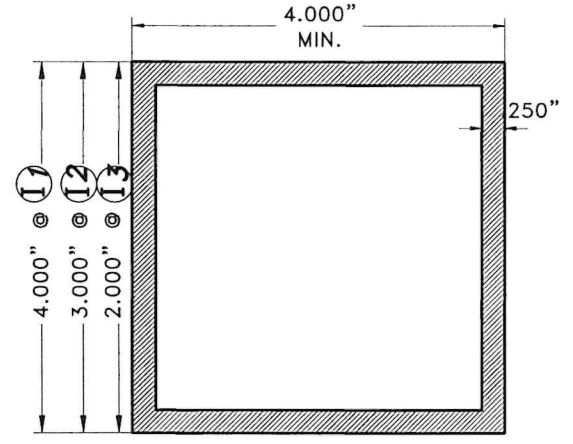
B BOTTOM SLAT
6063-T5 ALUMINUM
ALLOY TEMPER



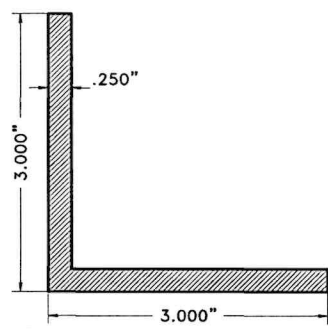
C SIDE RAIL
6063-T5 ALUMINUM
ALLOY TEMPER



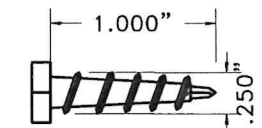
G END RETENTION SCREW AT EACH D
0.118" O.D. x 1 3/8" AISI 304
STAINLESS STEEL W/
XYLAN COATING



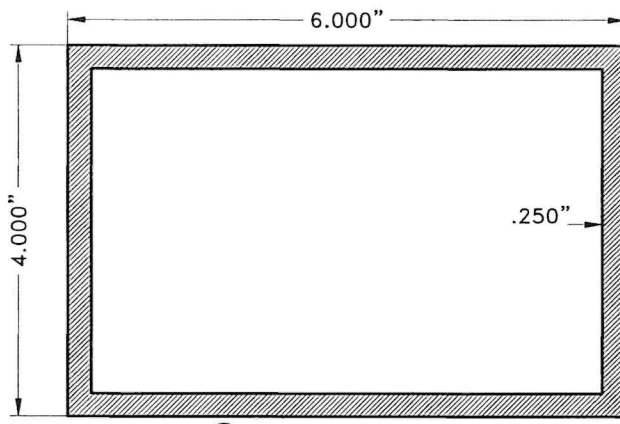
**I1, I2, I3 BUILD-OUT
MOUNTED TUBE (MASONRY)**
6061-T6 ALUMINUM
ALLOY TEMPER



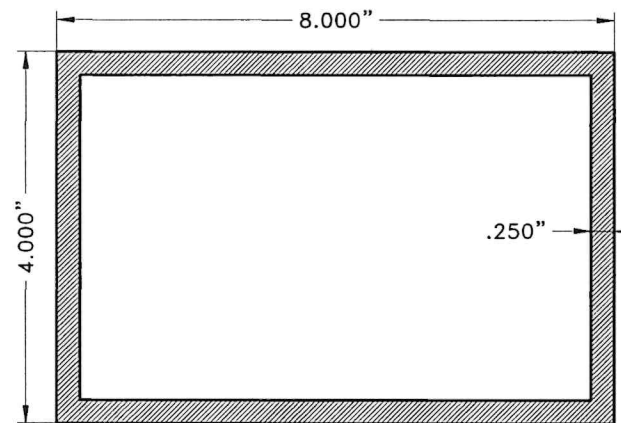
F TRAPPED ANGLE
6063-T6 ALUMINUM
ALLOY TEMPER



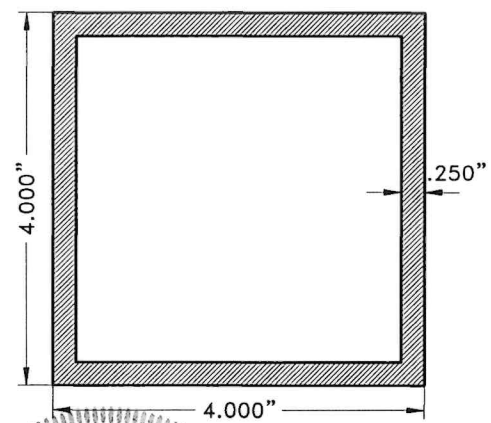
**H 1/4"Øx1" ITW/BUILDTEX
TEK SCREW**
410 STAINLESS STEEL



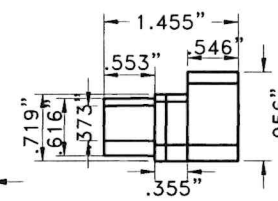
J 4" x 6" MULLION
6061-T6 ALUMINUM
ALLOY TEMPER



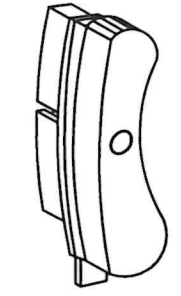
K 4" x 8" MULLION
6061-T6 ALUMINUM
ALLOY TEMPER



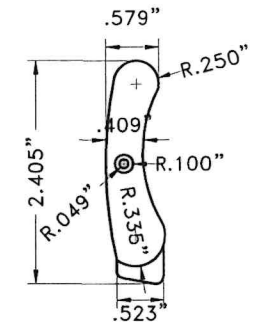
L 4" x 4" MULLION
6061-T6 ALUMINUM
ALLOY TEMPER



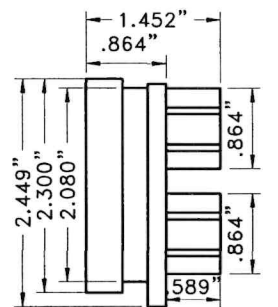
PLAN VIEW



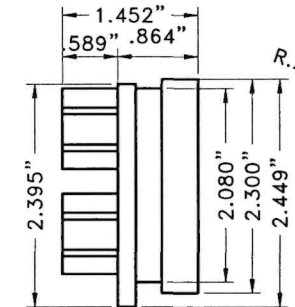
ISOMETRIC VIEW



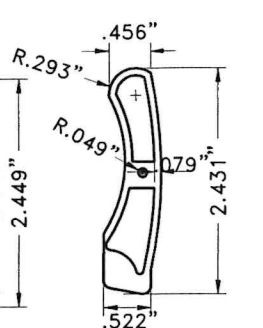
FRONT VIEW



LEFT VIEW

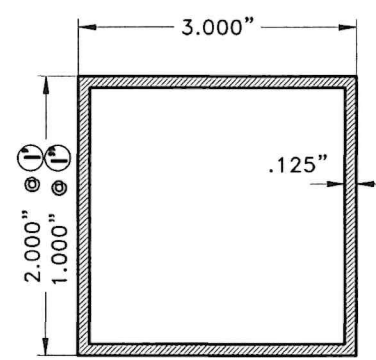


RIGHT VIEW

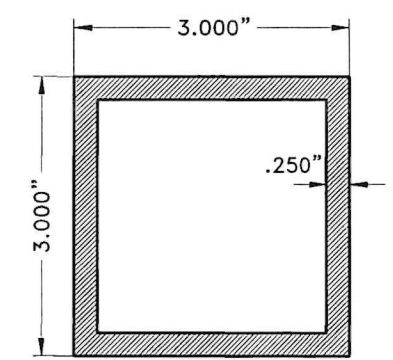


REAR VIEW

D SLAT LOCK GUIDE @ EVERY SLAT
FOR END RETENTION SYSTEM
AKULON 6-D PA6 POLYAMIDE
9400 psi Yield Stress



**I' & I'' BUILD-OUT
MOUNTED TUBE (WOOD)**
6063-T6 ALUMINUM
ALLOY TEMPER



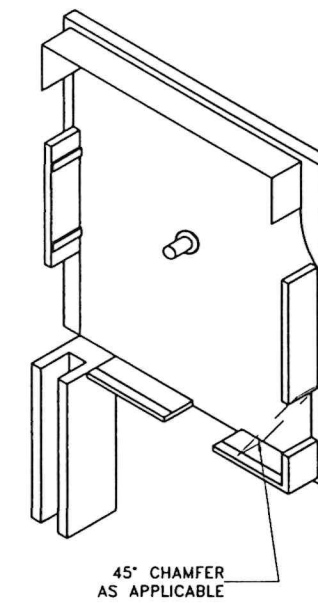
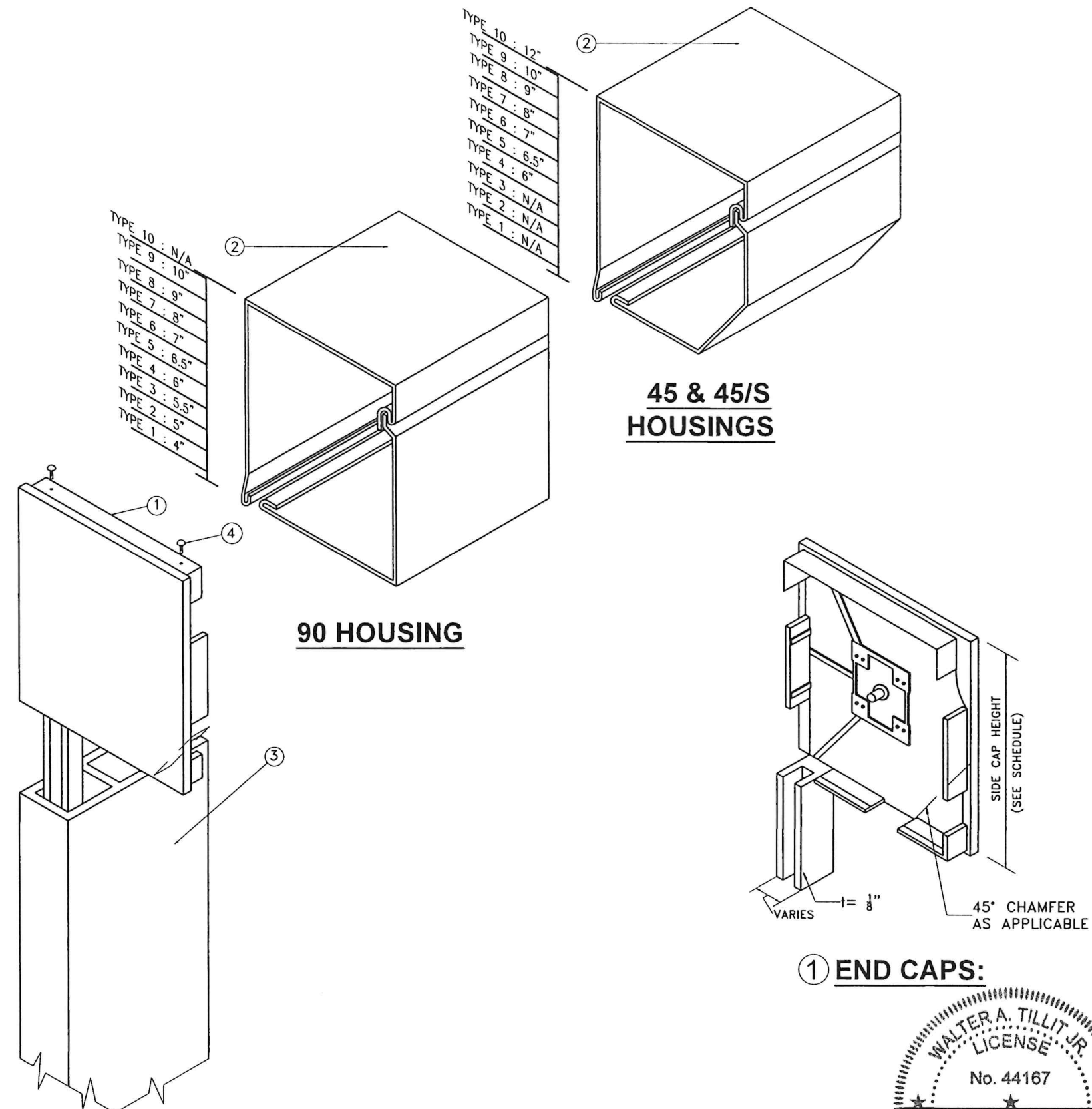
**I TRAPPED MOUNTED
TUBE (OPTION TO F)**
6063-T6 ALUMINUM
ALLOY TEMPER

WALTER A. TILLIT, JR.
P.E.
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)					
©2026 TILTECO, INC.			ROLL-UP SHUTTER SYSTEM W/ GV-60 END RETENTION SLAT L.M.I		
TILTECO INC.			gaviota		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			Cerrada de Acolafencia 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-
			W.H. DRAWN BY: 6/19/2026 DATE: 26-045 DRAWING No. SHEET 2 OF 21		

COMPONENTS
N.T.S.



STRUCTURAL COMPONENTS FOR OPERATING SYSTEM

- ① - SIDE/END CAP (CAST ALUMINUM) *
② - HOUSING, 0.040" THICK SHEET METAL
(3105-H14 OR STRONGER)

- ③ - SIDE RAIL

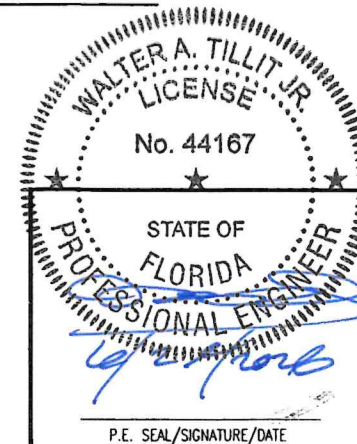
- ## References

FASTENERS

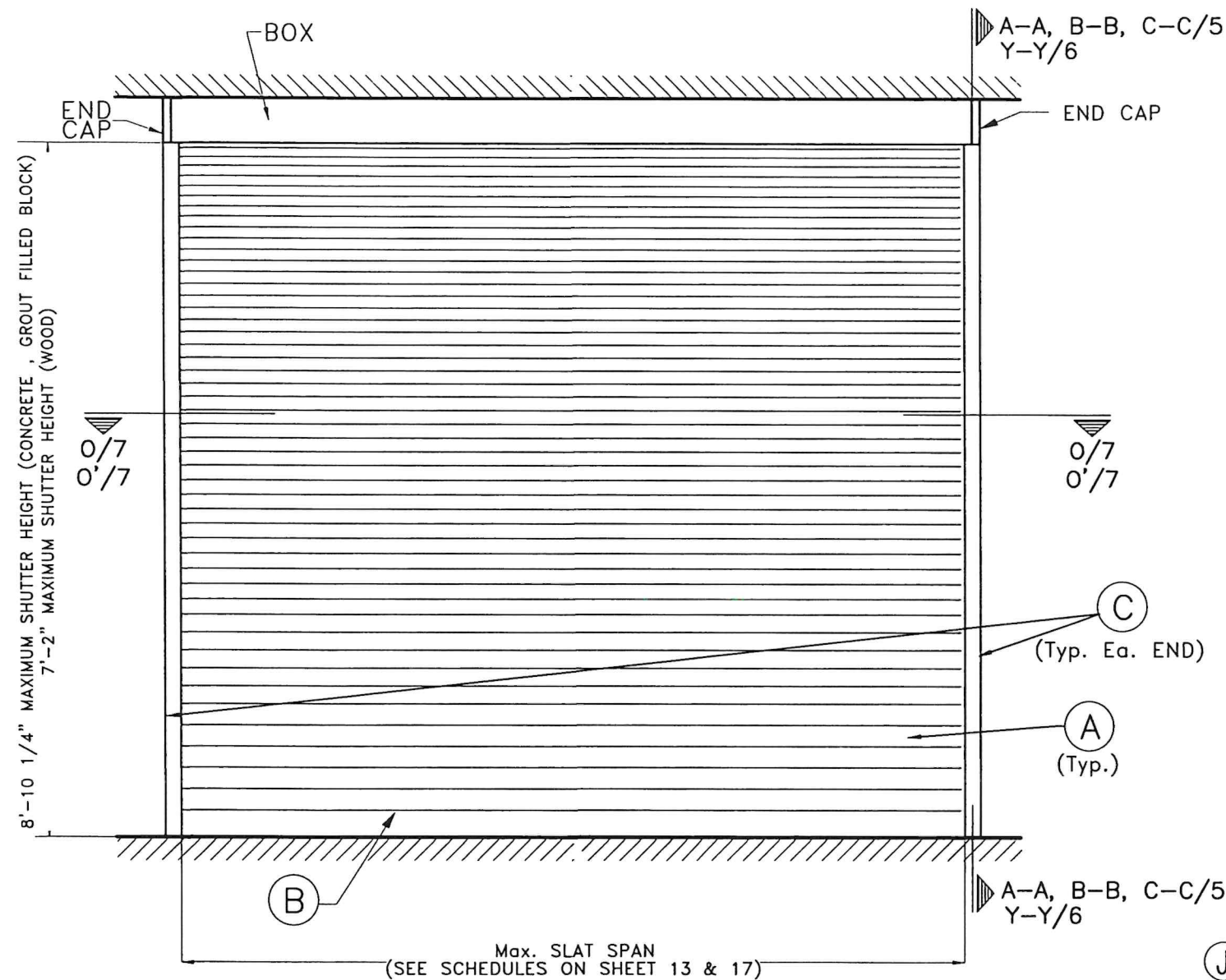
- ④ - 3/16" ALUMINUM POP RIVETS(6 REQ'D EA. SIDE CAP) : 2 @ TOP, 2 @ REAR, 2@ BOTTOM

* SHALL BE CAPABLE TO SUSTAIN SLAT'S WEIGHT AND ASSURE LIFTING MECHANISM (SEE NOTE 13/1)

① **END CAPS:**

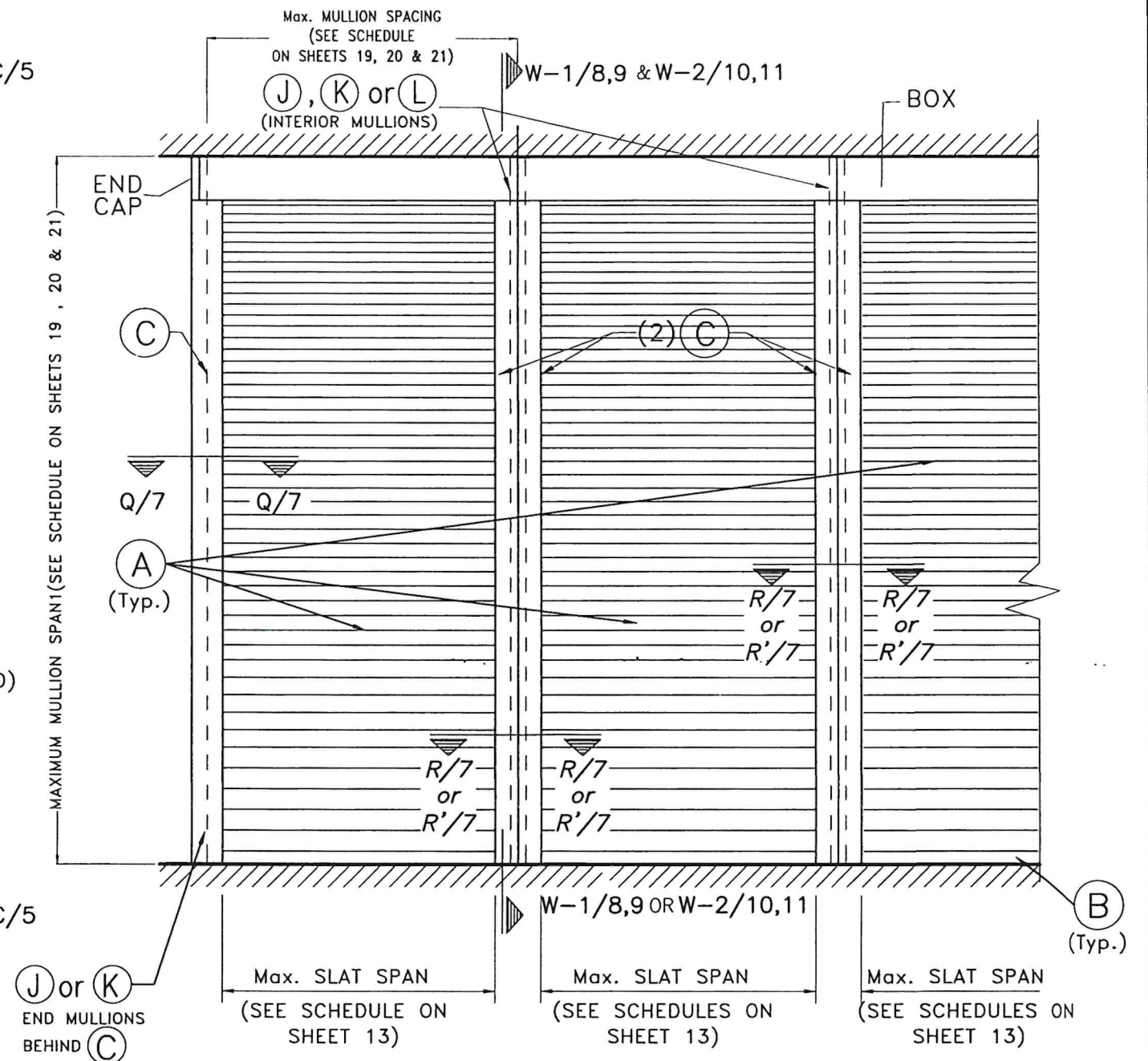


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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 3 OF 21
1	OLD 25-191	6/19/28	3	-	-	
2			4			
3			5			



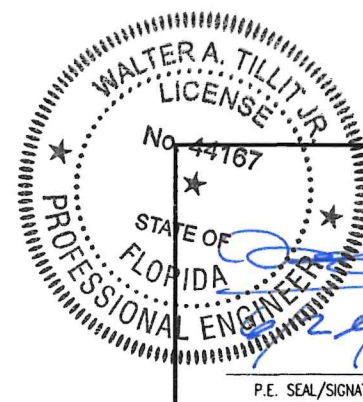
**TYPICAL SINGLE UNIT ELEVATION
(CONCRETE, GROUTED BLOCK OR WOOD)**

NOTE: SEE SHEETS 2 & 3 FOR COMPONENTS NOMENCLATURE.
N.T.S.

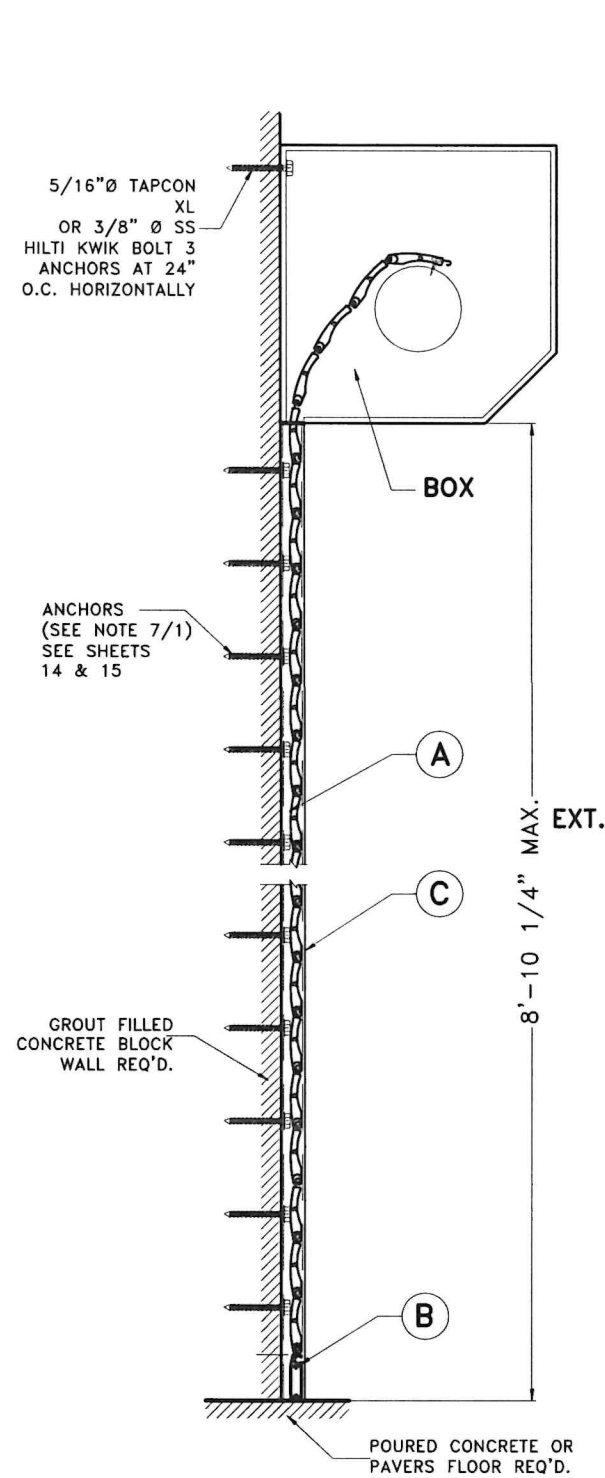


**TYPICAL CONSECUTIVE SINGLE UNIT ELEVATION
W/ MULLION INTO POURED CONCRETE**

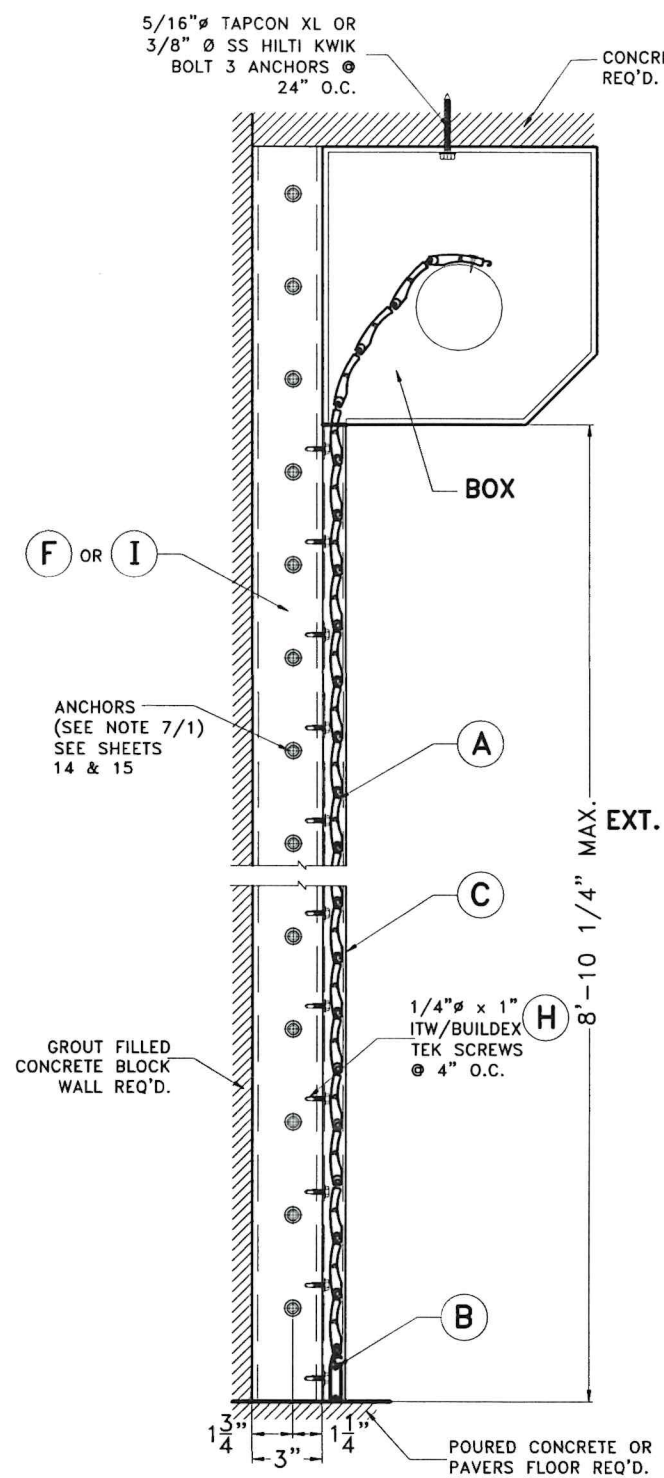
NOTE: SEE SHEETS 2 & 3 FOR COMPONENTS NOMENCLATURE.
N.T.S.



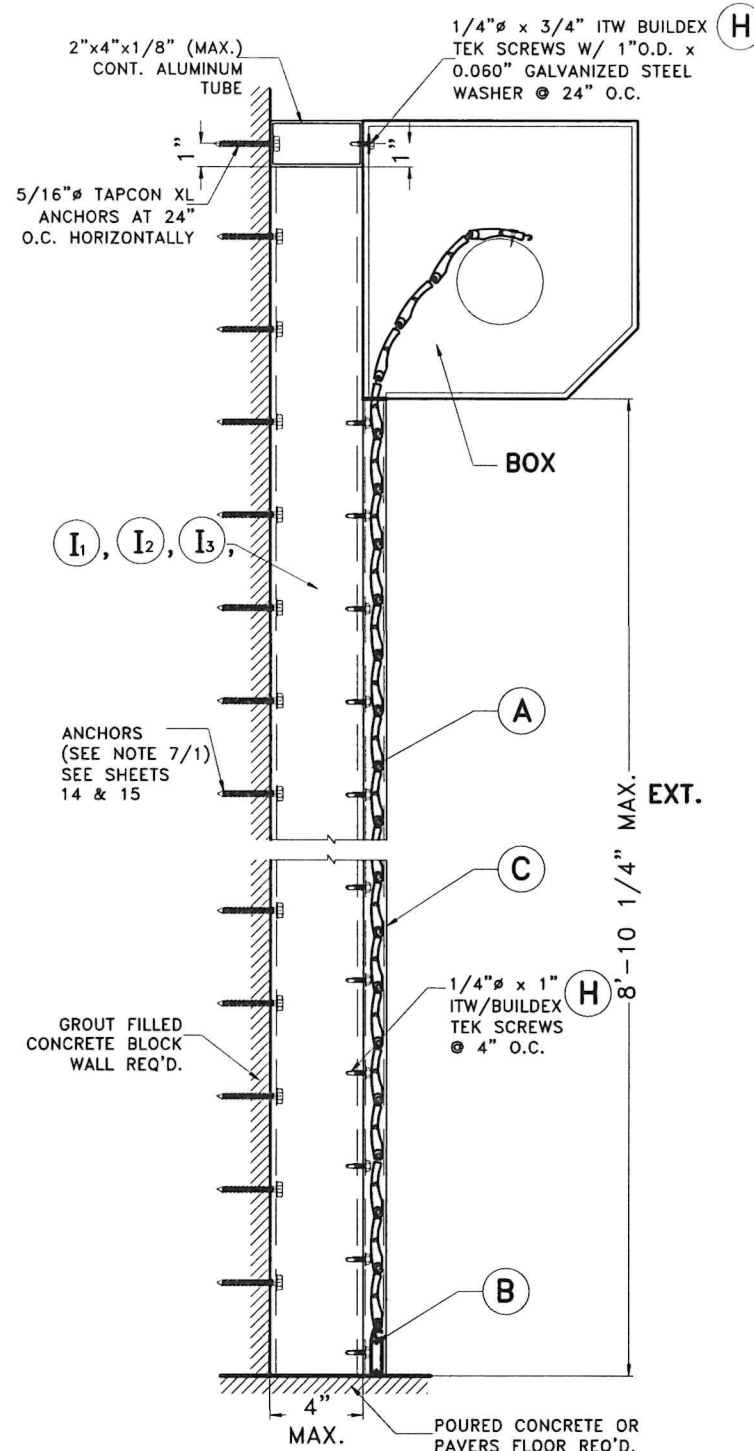
FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)					
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TILTECO INC.			gaviota		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			Cerrada de Acololencia 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	5/19/26	3	-	-
2	-	-	4	-	-
					W.H. DRAWN BY: 6/19/2026 DATE: 26-045 DRAWING No. SHEET 4 OF 21



**SECTION A-A
(WALL MOUNTED)**
SCALE 1/8"=1"

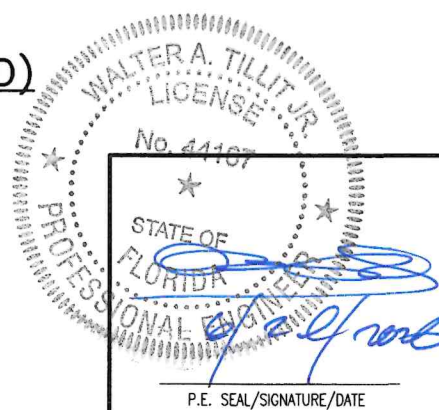


**SECTION B-B
(TRAPPED MOUNTED)**
SCALE 1/8"=1"

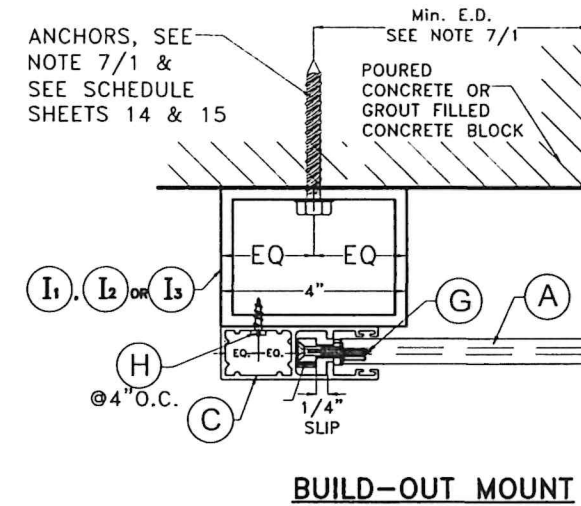
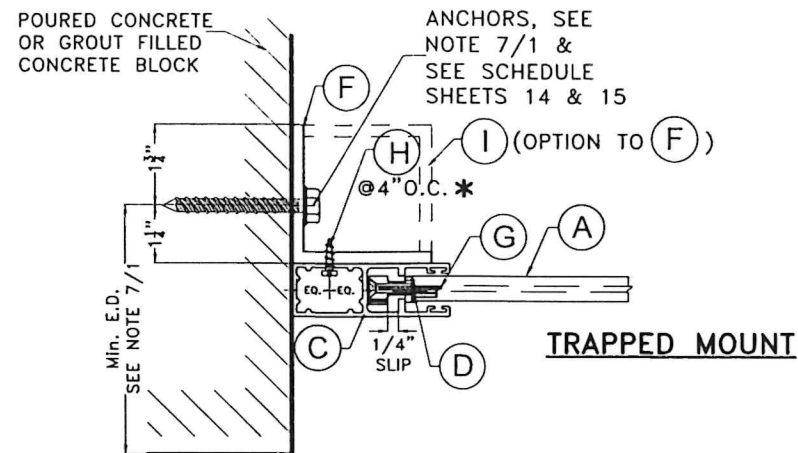
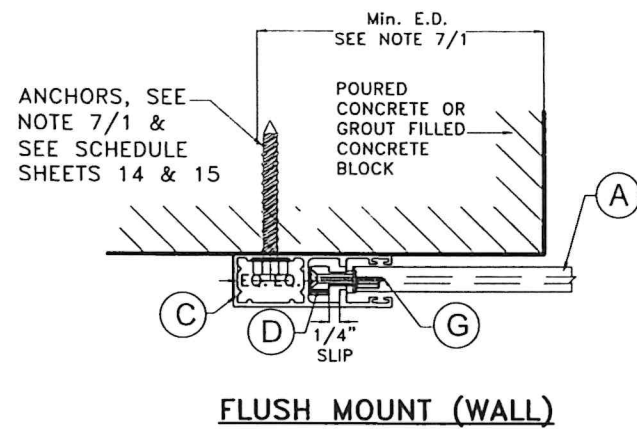


**SECTION C-C
(BUILD OUT)**
SCALE 1/8"=1"

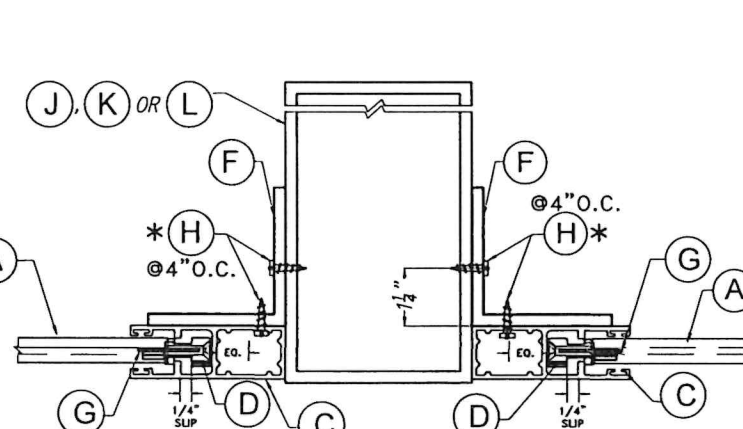
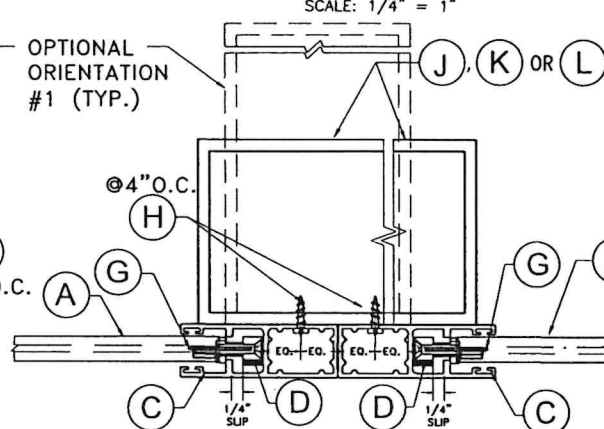
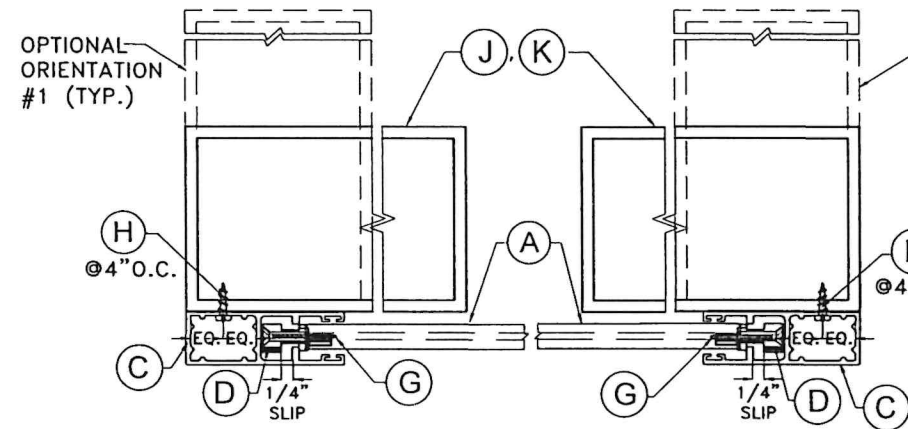
**INSTALLATION DETAILS ON EXISTING
POURED CONCRETE OR GROUT FILLED
CONCRETE BLOCK WALL BUILDINGS**



FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)					
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TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			gaviota The Sun & Shutter Specialists Cerrada de Acolotenco 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-
W.H. DRAWN BY:					6/19/2026 DATE:
P.E. SEAL/SIGNATURE/DATE					26-045 DRAWING No.
					SHEET 5 OF 21



SECTIONS O-O (PLAN) INSTALLATION DETAILS INTO EXISTING POURED CONCRETE OR GROUT FILLED CONCRETE BLOCK BUILDINGS



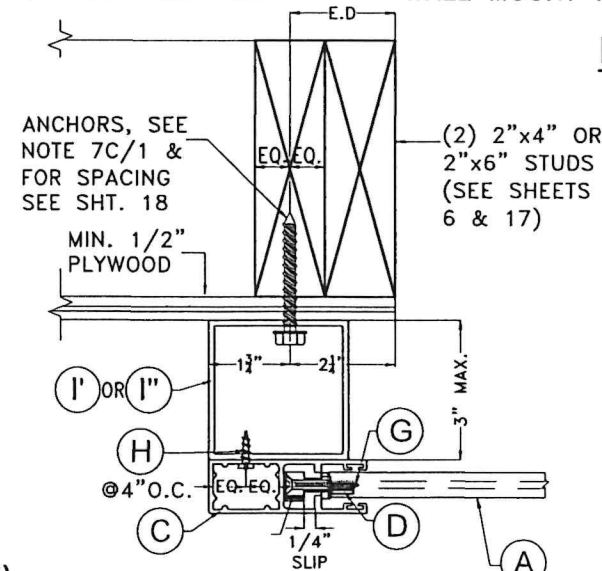
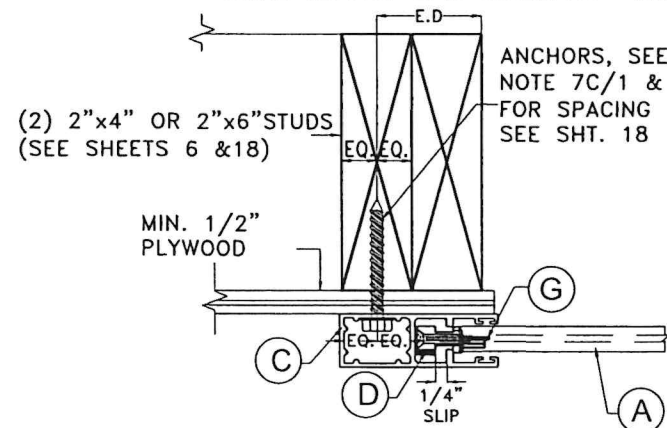
SECTION Q-Q (PLAN)
ORIENTATION #1 & #2
WALL MOUNT END MULLION

SECTION Q-Q (PLAN)
ORIENTATION #1 & #2
WALL MOUNT INTERIOR MULLION

SECTION R-R (PLAN)
ORIENTATIONS #1 & #2
WALL MOUNT INTERIOR MULLION

SECTION R'-R' (PLAN)
ORIENTATION #1
TRAPPED MOUNT INTERIOR MULLION

INSTALLATION DETAILS INTO MULLIONS J, K, L



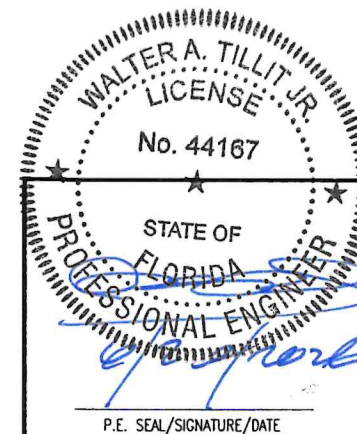
FLUSH MOUNT (WALL)

BUILD-OUT MOUNT

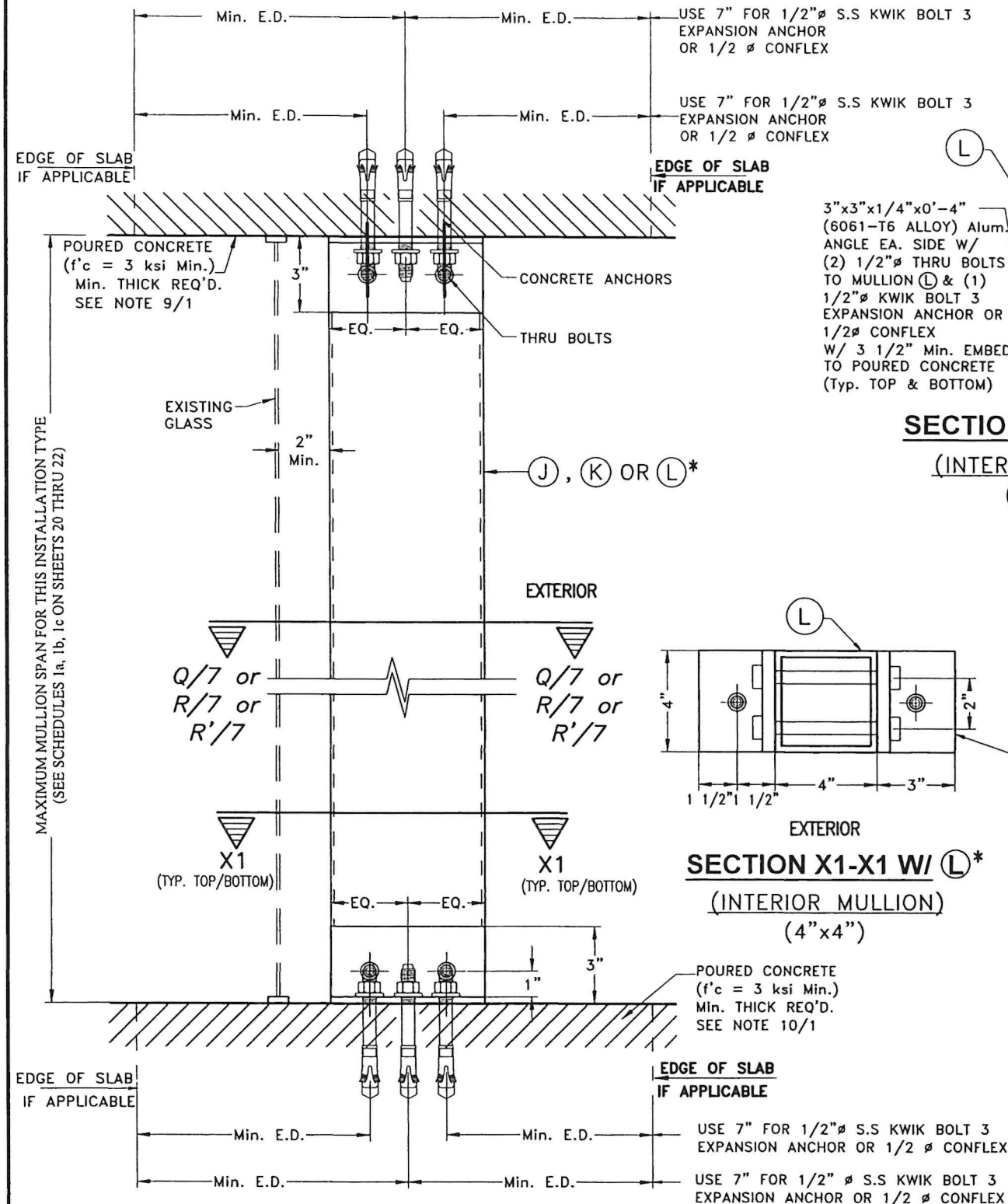
SECTIONS O'-O' (PLAN) INSTALLATION DETAILS INTO EXISTING WOOD BUILDINGS

SCALE: 1/4" = 1"

* ALTERNATIVELY TO (H), A
1/4"Ø-20x1" S.S. M.S.
W/NUT MAY BE USED
FOR THIS CONNECTION



FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)					
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TILTECO INC.			gaviota		6/19/2026 DATE:
TILIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT JR. P.E. FLORIDA Lic. # 44167			Cerrada de Acolofencia 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510		26-045 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-



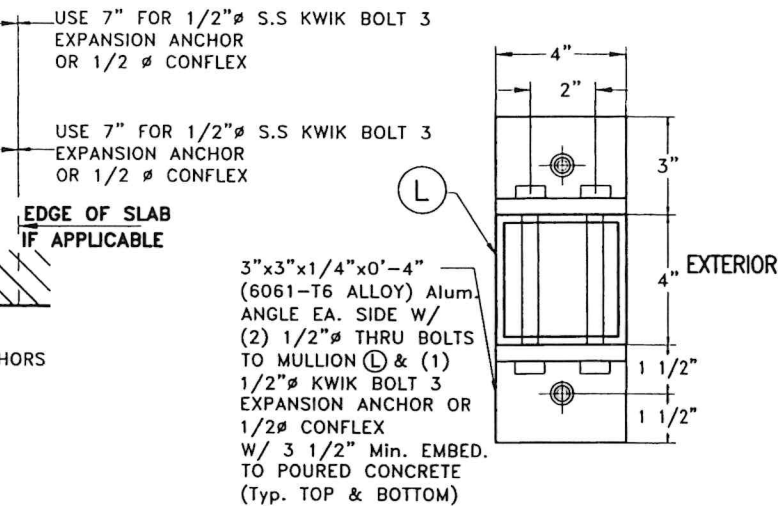
SECTIONS W-1

END & INTERIOR TRAPPED MOUNTED MULLION INSTALLATION

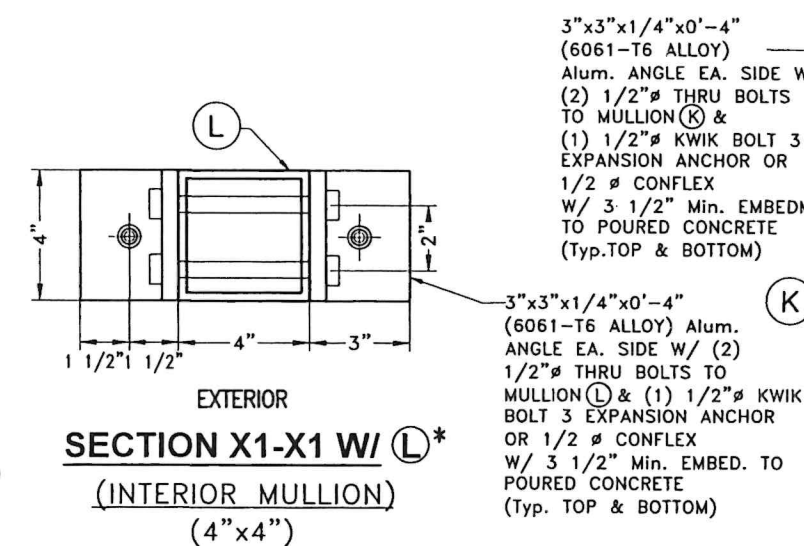
(TO BE USED W/ SCHEDULES 1a, 1b, 1c SHEETS 19, 20 & 21)

SCALE: 1/8" = 1"

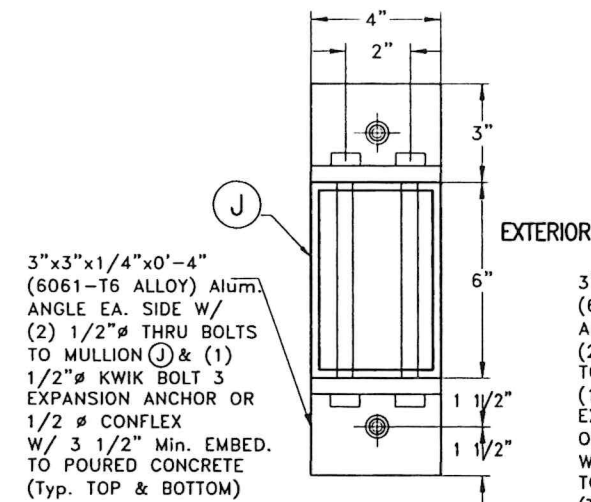
* SIDE RAIL (C) AND BOX NOT SHOWN FOR CLARITY.



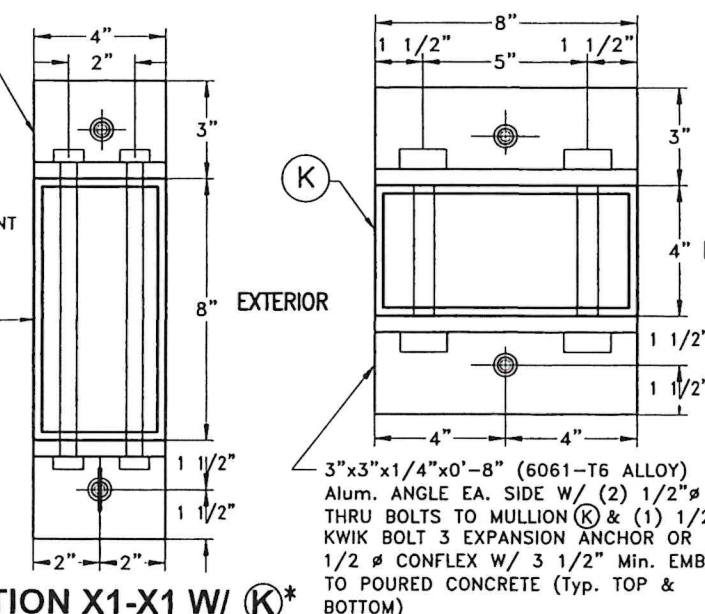
SECTION X1-X1 W/ (L)*
(INTERIOR MULLION)
(4"x4")



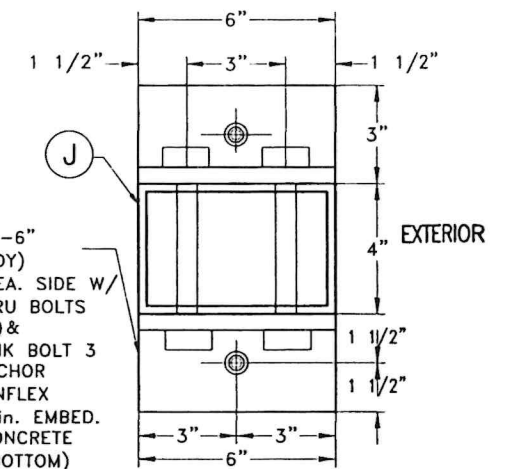
SECTION X1-X1 W/ (L)*
(INTERIOR MULLION)
(4"x4")



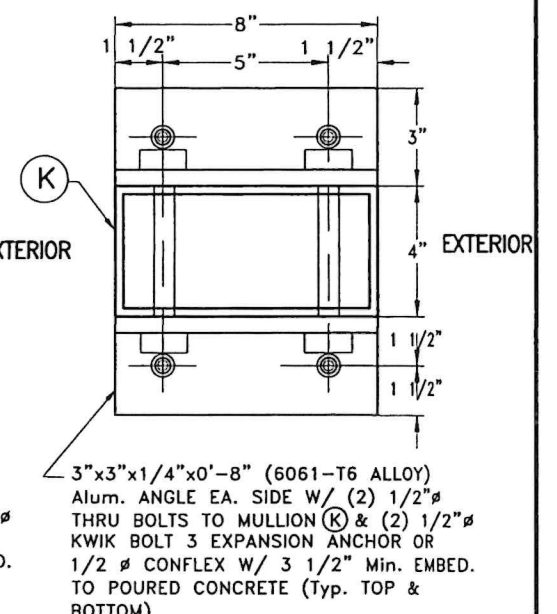
SECTION X1-X1 W/ (J)*
(END & INTERIOR MULLION)
(W/ ORIENTATION # 1)
(6"x4")



SECTION X1-X1 W/ (K)*
(END & INTERIOR MULLION)
(W/ ORIENTATION # 1)
(8"x4")

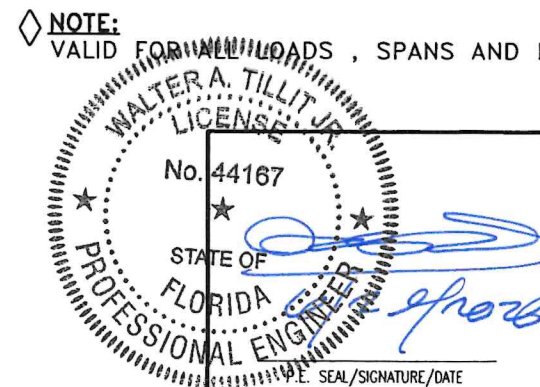


ALTERNATIVE SECTION X1-X1 W/ (J)*
(END & INTERIOR MULLION)
(W/ ORIENTATION # 2)
(4"x6")

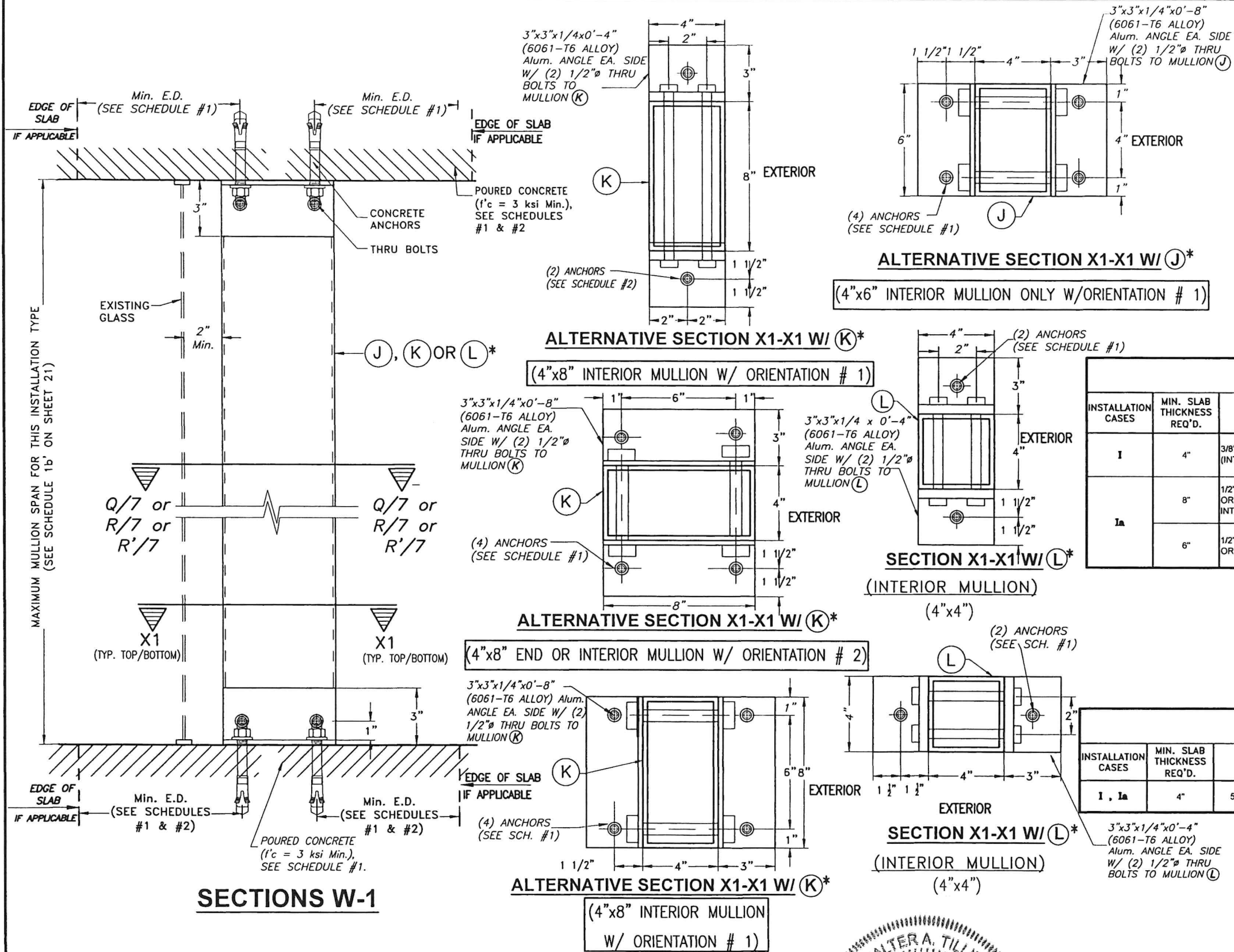


ALTERNATIVES SECTION X1-X1 W/ (K)*
(W/ ORIENTATION # 2)
(4"x8")

NOTE: VALID FOR ALL LOADS, SPANS AND MULLION SPACING, EXCEPT LIMITED CONDITIONS PER SHEET 9.



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TILTECO INC.			gaviota		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 • Fax: (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			Carrada de Acolotenco 237, Badaga 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-
SHEET 8 OF 21					26-045 DRAWING No.



SEE MAXIMUM (INTERIOR) & (END & INTERIOR) TRAPPED MOUNTED MULLIONS SPAN COVERED BY SCHEDULE 1b' FOR INSTALLATION CASES I, Ia ON SHEET 21. (LIMITED LOAD, MULLION SPACING AND SPAN INSTALLATION):

INSTALLATION CASE I - RESIDENTIAL AND COMMERCIAL APPLICATIONS WITH ± 60.0 p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 12'-0" MAXIMUM MULLION SPACING. SEE SCHEDULES #1 & #2 BELOW FOR ADDITIONAL SPECS.

INSTALLATION CASE Ia - RESIDENTIAL AND COMMERCIAL APPLICATION W/ ± 60.0 p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 8'-0" MAXIMUM MULLION SPACING. SEE SCHEDULES #1 & #2 BELOW FOR ADDITIONAL SPECS.

SCHEDULE #1				
INSTALLATION CASES	MIN. SLAB THICKNESS REQ'D.	ANCHOR TYPE & SIZE (TYP. TOP & BOTTOM)	MIN. ANCHOR EMBEDMENT	MIN. EDGE DISTANCE FOR ANCHOR
I	4"	3/8" HILTI INC KWIK BOLT 3 & 3/8" CONFLUX ANCHOR FOR (J) & (K) (INTERIOR) MULLIONS W/ ORIENTATION #2, OR INTERIOR MULLION (L)	2 3/8"	4 1/2"
Ia	8"	1/2" HILTI INC KWIK BOLT 3 ONLY FOR (J) & (K) INTERIOR MULLIONS W/ ORIENTATION #2) & (L) (END MULLION W/ ORIENTATION #1), OR INTERIOR MULLION (L)	3 1/2"	7"
	6"	1/2" CONFLUX SCREW FOR (J) & (K) (END OR INTERIOR MULLION) W/ ORIENTATIONS #1 OR #2 OR INTERIOR MULLION (L)	3 1/2"	6"

SCHEDULE #2				
INSTALLATION CASES	MIN. SLAB THICKNESS REQ'D.	ANCHOR TYPE & SIZE (TYP. TOP & BOTTOM)	MIN. ANCHOR EMBEDMENT	MIN. EDGE DISTANCE FOR ANCHOR
I, Ia	4"	5/8" KWIK BOLT 3	2 1/2"	7 1/2"

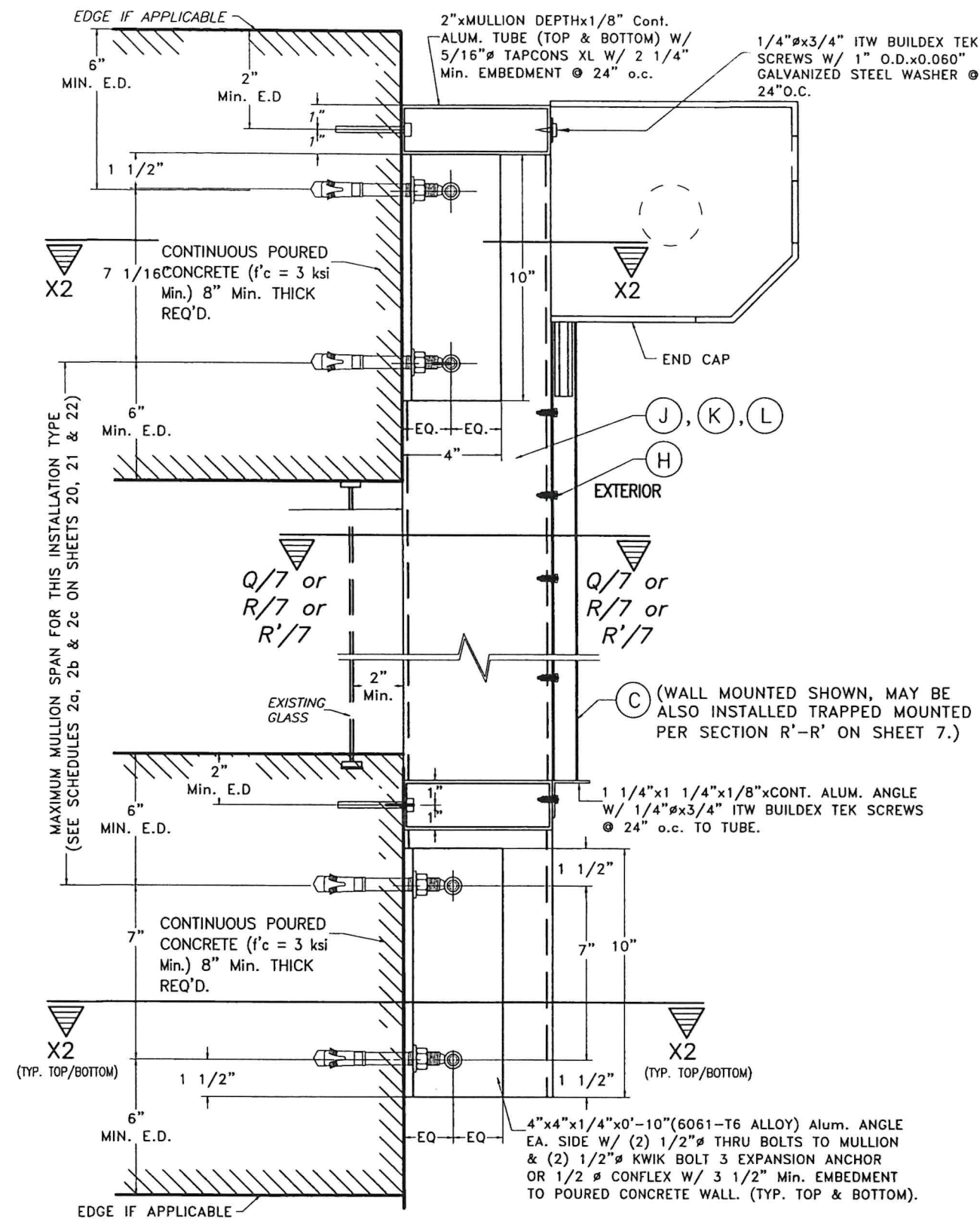
END & INTERIOR TRAPPED MOUNTED MULLION INSTALLATION
 APPLICABLE TO A LIMITED LOAD, LIMITED MULLION SPAN
 AND LIMITED MULLION SPACING
 (TO BE USED W/ SCHEDULE 1b' ON SHEET 20)

SCALE: 1/8" = 1"

* SIDE RAIL (C) AND BOX NOT SHOWN FOR CLARITY



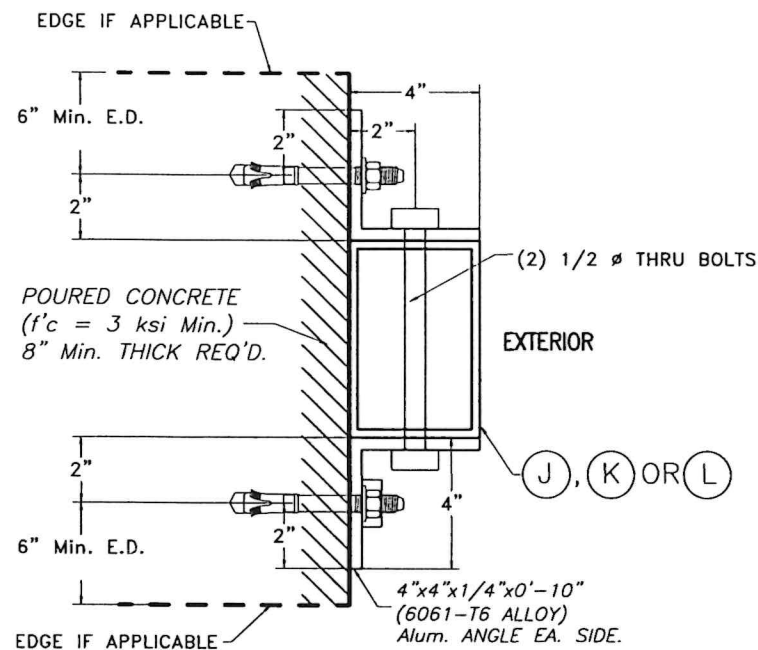
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				gaviota The Sun & Shutter Specialists					6/19/2026 DATE:
				Cerrada de Acololenco 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510					26-045 DRAWING No.
				REV. NO			DESCRIPTION		DATE
1			OLD 23-191		5/19/26	3		-	-
2			-		-	4		-	-
SHEET 9 OF 21									



SECTION W-2 END & INTERIOR WALL MOUNTED MULLION INSTALLATION

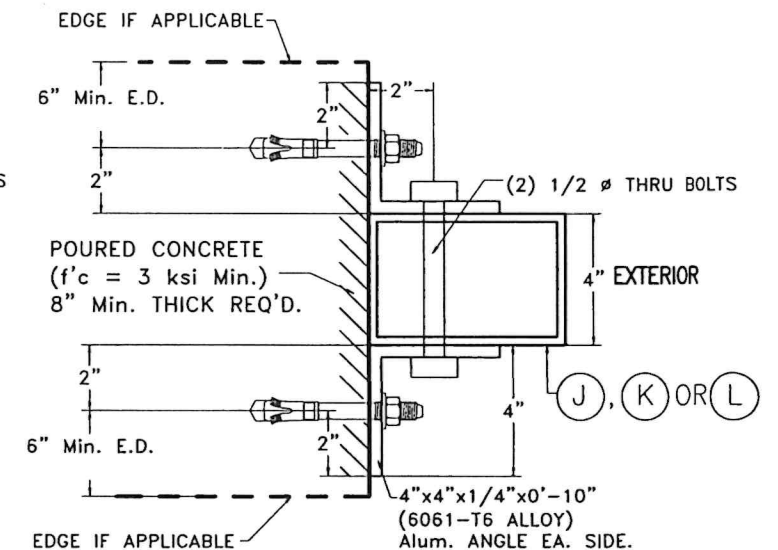
(TO BE USED W/ SCHEDULES 2a, 2b, 2c ON SHEETS 19, 20 & 21)

SCALE: 1/8" = 1"



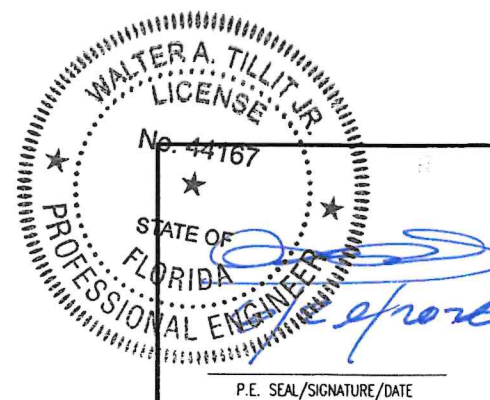
SECTION X2-X2 W/ (J), (K) or (L)* (END & INTERIOR MULLION (J), (K) or INTERIOR MULLION (L) (W/ ORIENTATION # 2) (6"x4", 8"x4" or 4"x4")

* SIDE RAIL (C) NOT SHOWN FOR CLARITY

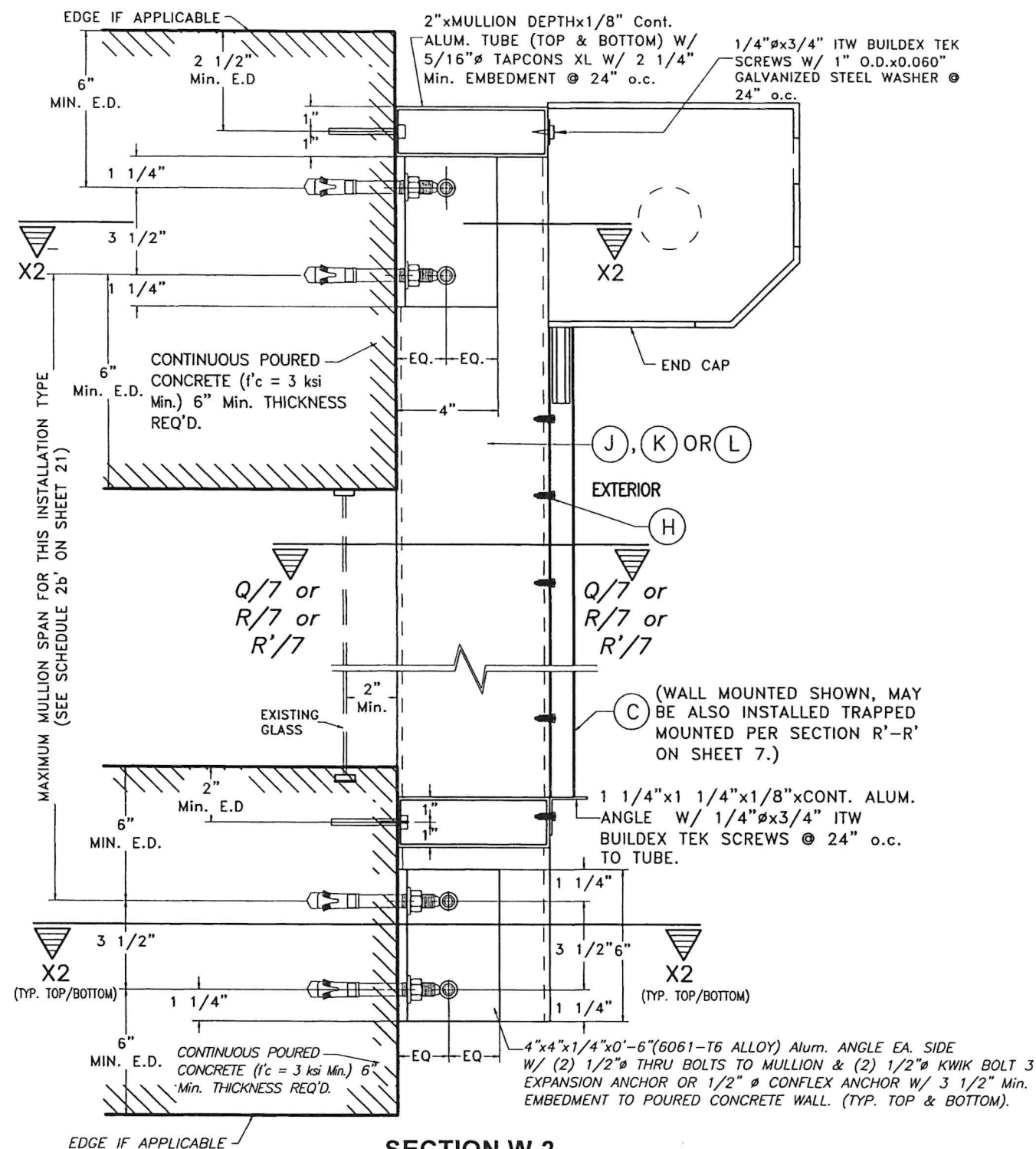


ALTERNATIVE SECTION X2-X2 W/ (J), (K) or (L)* (END & INTERIOR MULLION (J), (K) or INTERIOR MULLION (L) (W/ ORIENTATION # 1) (4"x6", 4"x8" or 4"x4")

NOTE: VALID FOR ALL LOADS, SPANS AND MULLION SPACING EXCEPT LIMITED CONDITIONS PER SHEET 11



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					26-045 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	5/19/28	3	-	-
2	-	-	4	-	-
					SHEET 10 OF 21

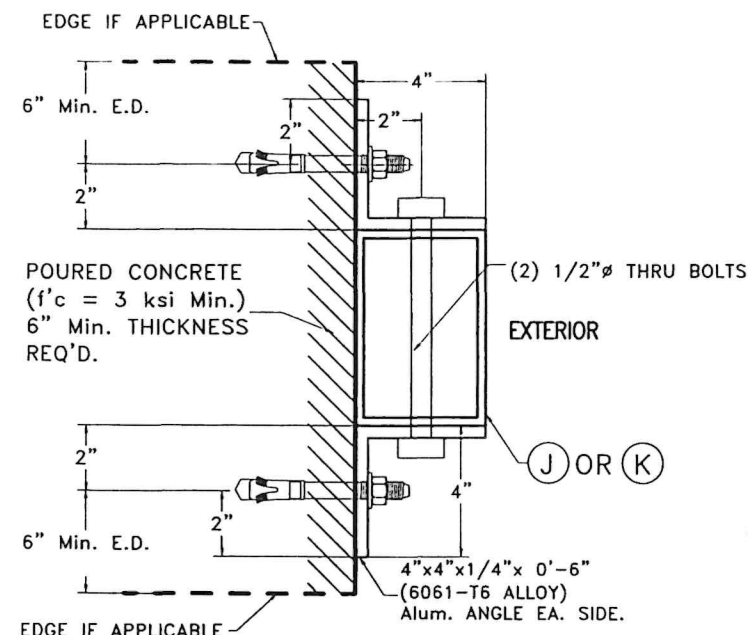


SECTION W-2

WALL MOUNTING MULLIONS (J), (K) or (L) POURED CONCRETE WALL

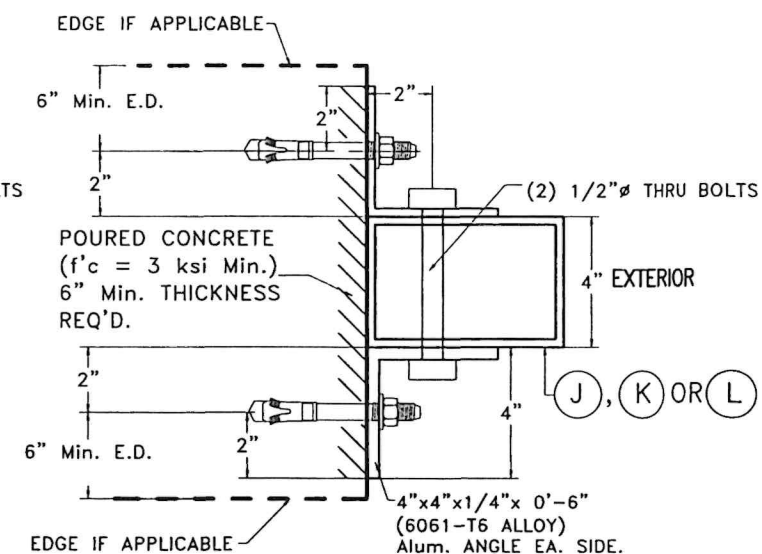
END & INTERIOR WALL MOUNTED MULLION INSTALLATION 
APPLICABLE TO A LIMITED LOAD, LIMITED MULLION SPAN
AND LIMITED MULLION SPACING
(TO BE USED W/ SCHEDULE 2b' ON SHEET 20)

SCALE: 1/8" = 1"



SECTION X2-X2 W/ (K)*

(END & INTERIOR MULLION (J), (K) W/or
 INTERIOR MULLION (L)
 (W/ ORIENTATION # 1)
 (6"x4" or 8"x4")

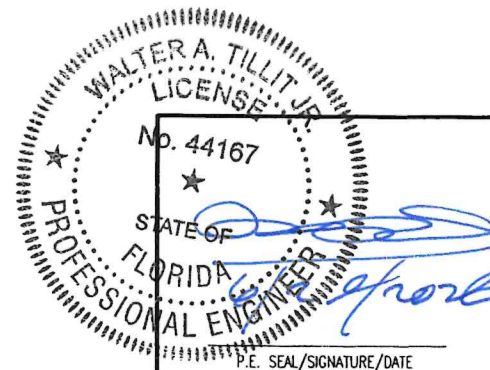


**SECTION X2-X2 W/ END AND
 INTERIOR MULLION (J), (K) OR
 INTERIOR MULLION (L)
 (W/ ORIENTATION # 2)
 (4"x6", 4"x8" or 4"x4")**

 SEE MAXIMUM (L) (INTERIOR) & (J) (K) (END & INTERIOR) WALL MOUNTED MULLIONS SPAN COVERED BY SCHEDULE 2b' FOR INSTALLATION CASES I' & II' DEFINED BELOW ON SHEET 21. (LIMITED LOAD, LIMITED MULLION SPACING AND LIMITED SPAN INSTALLATION):

INSTALLATION CASE I' - RESIDENTIAL AND COMMERCIAL APPLICATIONS WITH ±60.0 p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 12'-0" MAXIMUM MULLION SPACING. VALID FOR CONNECTION TO CONCRETE W/ 1/2"Ø S.S. KWIK BOLT 3 OR 1/2"Ø CONFLEX ANCHOR.

INSTALLATION CASE II' - COMMERCIAL APPLICATION FOR ±60.0 p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 8'-0" MAXIMUM MULLION SPACING. VALID FOR CONNECTION TO CONCRETE W/ 1/2"Ø S.S. HILTI INC KWIK BOLT 3 OR 1/2"Ø CONFLEX ANCHOR.



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TILTECO INC.			gaviota The Sun & Shutter Specialists Cerrada de Acolotenco 237, Bodega 48, Colonia San Sebastian, P.I. Pical Panlaco Ciudad de Mexico-02510		6/19/2026 DATE:
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-
DRAWING No. 26-045					SHEET 11 OF 21

TYPICAL MANDATORY PROCEDURE FOR VERIFYING PRODUCT CODE COMPLIANCE RELATED TO ITS INSTALLATION INTO EXISTING POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK STRUCTURES (*)

STEP 1: OBTAIN JOB SITE'S A.S.D. DESIGN PRESSURE RATING (p.s.f.) FOR THE OPENING AND DESIRED SLAT SPAN "L" (ft) TO PROTECT IT (SEE GENERAL NOTE #2, SHEET 1).

STEP 2: ENTER TO CHARTS Ia, Ib, Ic & Id ON SHEET 13 TO DETERMINE, BASED ON AN 1/4" SLAT SLIP (in), ANCHOR TYPE AT SIDE RAILS AND A.S.D. DESIGN PRESSURE RATING (p.s.f.) THE REQUIRED MAX SLAT SPAN "L" ft.

THE FOLLOWING INFORMATION IS PROVIDED AT CHARTS I THRU Id TO PROCEED WITH PRODUCT INSTALLATION VERIFICATION:

- ENTER A.S.D. DESIGN PRESSURE RATING: SEE STEP (1) ABOVE.
- FOR A SPECIFIC PRODUCT MOUNTING INSTALLATION TYPE, INCLUDING ANCHOR TYPE, THE FOLLOWING DEFINITION FOR SLAT SPAN SHALL BE CONSIDERED:

Lmax: THIS IS THE MAXIMUM ALLOWABLE SLAT SPAN FOR WHICH A GIVEN 1/4" SLAT SLIP MAY BE USED, FOR A GIVEN A.S.D. DESIGN PRESSURE RATING, AND MOUNTING TYPE.
- MINIMUM REQUIRED SEPARATION TO GLASS IS PROVIDED ON CHART Id

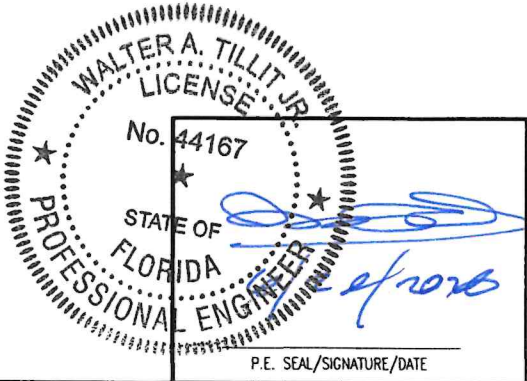
STEP 3: OBTAIN INFORMATION ON PRODUCT'S SIDE RAIL ANCHOR SPACING REQUIREMENTS FOR CONNECTION TO EXISTING STRUCTURE FROM ANCHOR SCHEDULES Va, Vb & Vc ON SHEETS 14 THRU 16. ENTER SCHEDULES WITH ANCHOR TYPE, SUBSTRATE, MOUNTING TYPE, A.S.D. DESIGN PRESSURE RATING & SLAT SPAN AND OBTAIN MAXIMUM ANCHOR SPACING (INCHES ON CENTERS). SEE GENERAL NOTE 7 ON SHEET 1 FOR ANCHOR SPECS.

STEP 4: IF PRODUCT INSTALLATION INCLUDES MULLIONS, THE FOLLOWING MANDATORY ADDITIONAL PROCEDURE IS APPLICABLE.

- MINIMUM SEPARATION TO GLASS FOR SLATS IF MULLIONS ARE USED SHALL BE BASED ON CHART Id ON SHEET 13. IT SHALL BE MEASURED FROM BACK OF SLATS TO GLASS.
- ENTER SCHEDULES 1a THRU 2c ON SHEETS 19, 20 & 21 W/ A.S.D. DESIGN LOAD; MAXIMUM MULLION SPACING (MAX., 12', 8' OR 7'), AND DETERMINE MAXIMUM MULLIONS SPAN (HEIGHT) W/ ALLOWABLE INTERPOLATION IN BETWEEN SPACING'S FOR A GIVEN (J, K & L), MULLION TYPE & MULLION ORIENTATION.

3. SEE SHEETS 8, 9 FOR TRAPPED MOUNTED MULLIONS AND SHEETS 10 & 11 FOR WALL MOUNTED MULLION CONNECTION DETAILS AT TOP & BOTTOM FOR FLOOR TO CEILING (TRAPPED) OR WALL MOUNTINGS OF MULLIONS INTO CONCRETE FOR A GIVEN MULLION TYPE (J, K, & L).

* PROCEDURE PER STEPS 1 THRU 3 IS SIMILAR FOR INSTALLATIONS INTO WOOD FRAME STRUCTURES. SEE SHEETS 17 & 18 FOR LIMITATIONS APPLICABLE TO INSTALLATIONS INTO WOOD FRAME STRUCTURES. (NO MULLIONS ALLOWED, NO TRAPPED MOUNT SHUTTER ALLOWED).



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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-
DRAWING No. 26-045					SHEET 12 OF 21

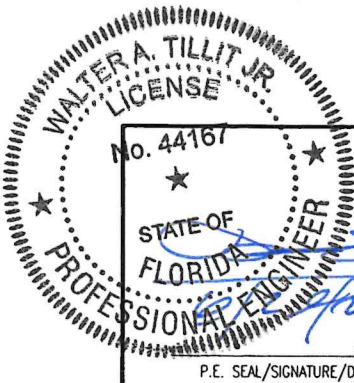
SLAT PERFORMANCE CHARTS Ia, Ib, Ic & Id: (ONLY VALID FOR 1/4" SLIP). SEE SHEET 18 FOR WOOD SUBSTRATE

FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (p.s.f), PRODUCT MOUNT CONDITION INCLUDING ANCHOR TYPE

MAX. A.S.D. DESIGN PRESSURE RATING (psf)	CHART Ia				CHART Ib				CHART Ic								CHART Id	
	3/8"Ø KWIK BOLT 3 ANCHOR TO POURED CONCRETE				5/16"Ø TAPCON XL or 5/16" Ø DEWALT ULTRACON ANCHOR TO POURED CONCRETE				5/16"Ø TAPCON XL , 5/16" Ø DEWALT ULTRACON ANCHOR TO GROUT FILLED CELL CONCRETE BLOCK				3/8 " Ø KWIK BOLT 3 TO GROUT FILLED CELL CONCRETE BLOCK				USE MAXIMUM POSITIVE A.S.D. LOAD VALUE	
	MAX. SLAT SPAN "LMAX." (FT)				MAX. SLAT SPAN "LMAX." (FT)				MAX. SLAT SPAN "LMAX." (FT)				MAX. SLAT SPAN "LMAX." (FT)				REQUIRED MIN. SEPARATION TO GLASS MEASURED TO BACK OF SLAT (in)	
	WALL MOUNT SEE NOTES *	TRAPPED MOUNT SEE NOTES *	BUILD-OUT MOUNT W/ I1 & I2 SEE NOTES *	BUILD-OUT MOUNT W/I3 SEE NOTES *	WALL MOUNT SEE NOTES *	TRAPPED MOUNT SEE NOTES *	BUILD-OUT MOUNT W/ I1 & I2 SEE NOTES *	BUILD-OUT MOUNT W/I3 SEE NOTES *	WALL MOUNT SEE NOTES *	TRAPPED MOUNT SEE NOTES*	BUILD-OUT MOUNT W/ I1 & I2 SEE NOTES*	BUILD-OUT MOUNT W/I3 SEE NOTES*	WALL MOUNT SEE NOTES *	TRAPPED MOUNT SEE NOTES*	BUILD-OUT MOUNT W/ I1 & I2 SEE NOTES*	BUILD-OUT MOUNT W/I3 SEE NOTES		
																	ZONE 1 , 2 & 3	ZONE 4
60.0 or LESS	14'-2 3/16"	14'-2 3/16"	9'-0"	11'-0"	13'-0"	11'-0"	7'-6"	8'-6"	9'-3"	8'-6"	7'-0"	7'-6"	13'-3"	13'-3"	8'-6"	10'-0"	1"	9-1/2"

* NOTES:

1. ABOVE INDICATED MAX. SLAT SPANS MAY BE USED AS LONG AS ANCHOR SPACING SCHEDULES ON SHEETS 14, 15 & 16 INDICATE THAT AN ANCHOR SPACING IS AVAILABLE FOR THE CORRESPONDING SLAT SPAN AND A.S.D. DESIGN PRESSURE RATING.
2. REQUIRES SIDE RAILS FASTENED TO EXISTING STRUCTURE WITH 3/8"Ø KWIK BOLT 3 ANCHOR , 5/16"Ø TAPCON XL OR DEWALT 5/16"Ø ULTRACON ANCHOR, INTO POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK, OR WITH (H) AT MULLIONS CONNECTION. VALID FOR WALL MOUNTED, TRAPPED MOUNTED, AND BUILD-OUT MOUNTED SLATS.
3. MAXIMUM SLAT SPANS FOR INTERMEDIATE LOADS MAY BE DETERMINED BY LINEAR INTERPOLATION BETWEEN END VALUES.
4. WIND ZONES 1 THRU 4 AS DEFINED BY ASTM STANDARD E-1996.



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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	W.H. DRAWN BY:			
1	OLD 23-191	6/19/26	3	-	-	6/19/2026 DATE:			
2	-	-	4	-	-	26-045 DRAWING No.			

MAX. ANCHOR'S SPACING SCHEDULE Va

FOR A GIVEN PRODUCT MOUNTING TYPE, W/ 3/8"Ø KWIK BOLT 3 , 5/16"Ø TAPCON XL & 5/16"Ø ULTRACON ANCHORS TO POURED CONCRETE WALL,
A.S.D. DESIGN PRESSURE RATING & SLAT SPAN RANGE †

WALL MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE						
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	>12'-(14'-2 3/8") †
≤ 30.0	6"	6"	6"	6"	4"	4"	4"
>31-40	6"	6"	6"	4"	4"	4"	4"
>41-60	6"	6"	6"	4"	4"	4"	4"



SLAT SPAN DEFINITION

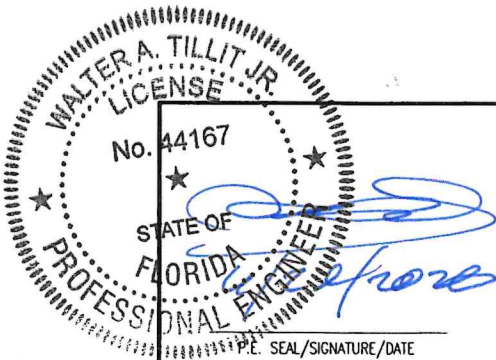
† NOTE:
MAX. SLAT SPAN FOR A
GIVEN A.S.D. DESIGN
PRESSURE RATING SHALL
NEVER EXCEED MAX. SLAT
SPAN INDICATED ON SLAT
PERFORMANCE CHART ON
SHEET 13.

TRAPPED MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE						
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	>12'-(14'-2 3/8") †
≤ 30.0	6"	6"	6"	6"	4"	4"	4"
>31-40	6"	6"	6"	4"	4"	4"	4"
>41-60	6"	6"	6"	4"	4"	4"	4"

BUILD-OUT MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE																					
	0'-4' †			> 4'-5' †			> 5'-6' †			> 6'-7' †			> 7'-9' †			> 9'-12' †			> 12' - (14'-2 3/8") †			
	(I ₁)	(I ₂)	(I ₃)	(I ₁)	(I ₂)	(I ₃)	(I ₁)	(I ₂)	(I ₃)	(I ₁)	(I ₂)	(I ₃)	(I ₁)	(I ₂)	(I ₃)	(I ₁)	(I ₂)	(I ₃)	(I ₁)	(I ₂)	(I ₃)	
≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>31-40	6"	6"	6"	6"	6"	6"	6"	6"	6"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>41-60	6"	6"	6"	6"	6"	6"	6"	6"	6"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"



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©2026 TILTECO, INC.					ROLL-UP SHUTTER SYSTEM W/ GV-60 END RETENTION SLAT L.M.I					W.H. DRAWN BY:													
TILTECO inc.					gaviota The Sun & Shutter Specialists					6/19/2026 DATE:													
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167					Cerrada de Acololenco 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510					26-045 DRAWING No.													
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-	1	OLD 23-191	6/19/26	3	-	-	1	OLD 23-191	6/19/26	3	-	-	1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-	2	-	-	4	-	-	2	-	-	4	-	-	2	-	-	4	-	-

MAX. ANCHOR'S SPACING SCHEDULE V_C FOR A GIVEN PRODUCT MOUNTING TYPE, W/ 5/16"Ø TAPCON XL, 5/16" Ø DEWALT ULTRA CON OR 3/8 " Ø KWIK BOLT 3 ANCHORS TO GROUT FILLED CELL CONCRETE BLOCK WALL, A.S.D. DESIGN PRESSURE RATING & SLAT SPAN RANGE †

WALL MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE						
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	>12'-(14'-2 3/8") †
≤ 30.0	6"	6"	6"	6"	4"	4"	4"
>31-40	6"	6"	6"	4"	4"	4"	4"
>41-60	6"	6"	6"	4"	4"	4"	4"



SLAT SPAN DEFINITION

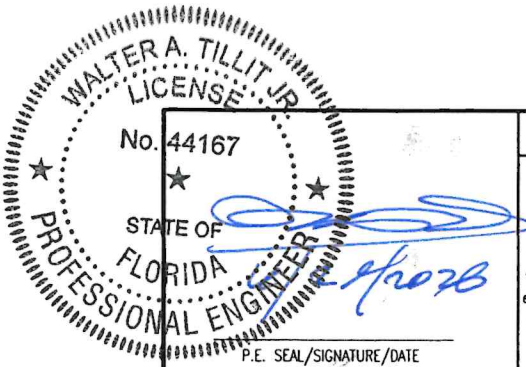
† NOTE:
MAX. SLAT SPAN FOR A GIVEN A.S.D. DESIGN PRESSURE RATING SHALL NEVER EXCEED MAX. SLAT SPAN INDICATED ON SLAT PERFORMANCE CHART ON SHEET 13.

TRAPPED MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE						
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	>12'-(14'-2 3/8") †
≤ 30.0	6"	6"	6"	6"	4"	4"	4"
>31-40	6"	6"	6"	4"	4"	4"	4"
>41-60	6"	6"	6"	4"	4"	4"	4"

BUILD-OUT MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE																				
	0'-4' †			> 4'-5' †			> 5'-6' †			> 6'-7' †			> 7'-9' †			> 9'-12' †			> 12' - (14'-2 3/8") †		
	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬
≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>31-40	6"	6"	6"	6"	6"	6"	6"	6"	6"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>41-60	6"	6"	6"	6"	6"	6"	6"	6"	6"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"

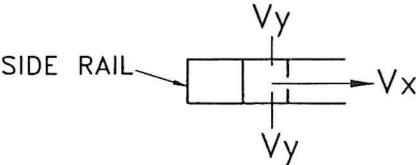


FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)					
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TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			ROLL-UP SHUTTER SYSTEM W/ GV-60 END RETENTION SLAT L.M.I. gaviota The Sun & Shutter Specialists Carrada de Acololenco 237, Bodega 48, Colonia San Sebastian, P.I. Pical Panteco Ciudad de Mexico-02510		W.H. DRAWN BY: 6/19/2026 DATE: 26-045 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-
					SHEET 15 OF 21

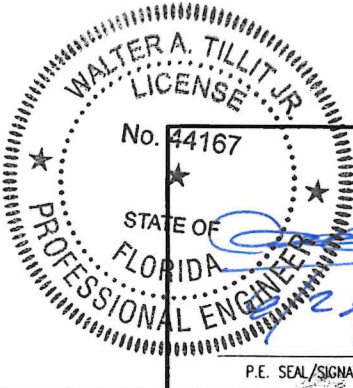
SCHEDULE V_C:
V_x FORCES (Lb/FT) & V_y FORCES (Lb/FT) ACTING AT JAMBS FOR AN A.S.D. DESIGN LOAD RANGE, SLAT SPAN
RANGE FOR POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK WALL BUILDINGS *
(USE MAXIMUM VALUE BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	SLAT SPAN RANGE													
	0'-4'		> 4'-5'		> 5'-6'		> 6'-7'		> 7'-9'		> 9'-12'		>12'-(14'-2' ³ / ₁₆ ")	
	V _x	V _y	V _x	V _y	V _x	V _y	V _x	V _y	V _x	V _y	V _x	V _y	V _x	V _y
≤ 30.0	0	60	0	75	20	90	181	105	427	135	739	180	1134	240
>31-40	0	80	0	100	127	120	307	140	599	180	986	240	1485	320
>41-60	0	120	55	150	330	180	551	210	932	270	1461	360	1722	405

* NOTE:
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMIT HOLDER TO VERIFY THAT EXISTING STRUCTURE IS DESIGNED TO SUPPORT V_x AND V_y FORCES IN POUNDS PER UNIT FOOT OF PRODUCT HEIGHT AT BOTH JAMBS. SEE THIS SHEET FOR V_x & V_y VALUES.



SLAT SPAN DEFINITION

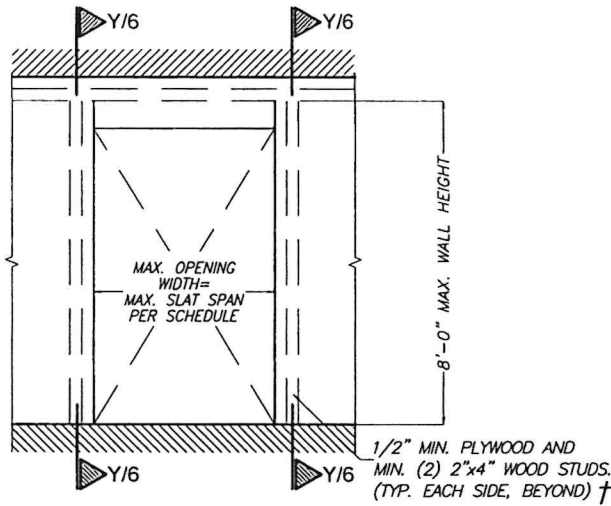


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TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 - Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167				gaviota The Sun & Shutter Specialists Cerrada de Acolafencia 237, Bodega 48, Colonia San Sebastian, P.I. Pical Panteco Ciudad de Mexico-02510	
REV. NO		DESCRIPTION	DATE	REV. No	DESCRIPTION
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2	-	-	4	-	-
DRAWING No.				SHEET 16 OF 21	

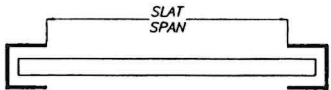
SLAT PERFORMANCE CHART Ib1 & Ic1

FOR A GIVEN MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f) AND SHUTTER MOUNT CONDITION FOR INSTALLATIONS PER DETAIL 1

CHART Ib1				CHART Ic1	
USE MAXIMUM VALUE BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD				USE MAXIMUM POSITIVE A.S.D. LOAD VALUE	
<u>5/16"Ø TAPCON XL OR 5/16"Ø DEWALT ULTRACON ANCHOR</u>					
MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	MAX. SLAT SPAN "L _{MAX.} " (ft)			REQUIRED MIN. SEPARATION TO GLASS MEASURED TO BACK OF SLAT (in)	
	WALL MOUNT (SEE NOTES Δ)	BUILD-OUT MOUNT W/ 1" (SEE NOTES) Δ	BUILD-OUT MOUNT W/ 1" (SEE NOTES Δ)	WIND ZONES 1-3	WIND ZONE 4
30.0 *	12'-0"	10'-0"	11'-0"	1"	9-1/2"
35.0 **	12'-0"	10'-0"	11'-0"	1"	9-1/2"
40.0 **	11'-0"	9'-0"	10'-0"	1"	9-1/2"
45.0 ***	11'-0"	9'-0"	10'-0"	1"	9-1/2"
50.0 ***	11'-0"	9'-0"	10'-0"	1"	9-1/2"
55.0 ***	10'-0"	8'-0"	9'-0"	1"	9-1/2"
60.0 ***	10'-0"	8'-0"	9'-0"	1"	9-1/2"



DETAIL 1 (ELEVATION)



SLAT SPAN "L" DEFINITION

Δ NOTES:

1. ABOVE INDICATED MAX. SLAT SPANS MAY BE USED AS LONG AS ANCHOR SPACING SCHEDULES ON SHEET 19 INDICATE THAT A SPACING IS AVAILABLE FOR THE CORRESPONDING SLAT SPAN AND A.S.D. DESIGN LOAD.

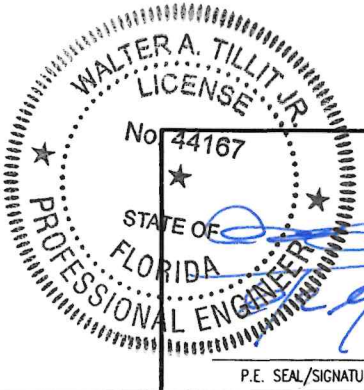
† : WOOD FRAME WALL TO BE BUILT STRICTLY IN ACCORDANCE WITH SPECS GIVEN ON SHEET 6 AND PROVISIONS FROM CHAPTER 23 OF THE FLORIDA BUILDING CODE. MINIMUM LENGTH OF WALL AT EITHER SIDE OF OPENING SHALL BE 33".

2. WIND ZONES 1, 2, 3 & 4 AS DEFINED BY ASTM STANDARD E-1996

MAXIMUM A.S.D. DESIGN LOAD VS WOOD GRADE SCHEDULE:

- *VALID FOR DOUGLAS-FIR-SOUTH (G=0.46) SOUTHERN PINE #2 (G=0.55) SPRUCE PINE-FIR-SITH (G=0.36)
- **VALID FOR DOUGLAS-FIR-SOUTH (G=0.46) SOUTHERN PINE #2 (G=0.55)
- ***VALID FOR SOUTHERN PINE #2 (G=0.55)

INSTALLATIONS INTO WOOD FRAME BUILDINGS



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TILTECO INC.			gaviota		6/19/2026 DATE:
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			Cerrada de Acolotenco 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantlaco Ciudad de Mexico-02510		26-045 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/28	3	-	-
2	-	-	4	-	-
					SHEET 17 OF 21

MAX. ANCHOR'S SPACING SCHEDULE VI FOR A GIVEN SHUTTER MOUNTING TYPE, WOOD GRADE, A.S.D.
DESIGN LOAD (psf) AND SLAT SPAN RANGE FOR INSTALLATIONS INTO WOOD BUILDINGS:
(SEE SHT. 7, SECTIONS O'-O' FOR ANCHOR SPEC'S & GENERAL NOTE 7C ON SHT. 1)

WALL MOUNT TO MIN. 2"x4" WOOD STUD WITH MINIMUM 1/2" PLYWOOD
(SEE DETAIL 1 ON SHEET 17)

WOOD GRADE	MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE (psf)	SLAT SPAN RANGE						
		0' to 4' *	> 4' to 5' *	> 5' to 6' *	> 6' to 7' *	> 7' to 9' *	> 9' to 10' *	> 10' to 12' *
SOUTHERN PINE #2 (G=0.55)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"
	40	6"	6"	6"	6"	6"	4 3/4"	4 1/2"
	50	6"	6"	6"	6"	4 3/4"	3 1/2"	3"
	60	6"	6"	5 3/4"	5 1/4"	3 3/4"	3"	3"
DOUGLAS-FIR-SOUTH (G=0.46)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"
	40	6"	6"	6"	5 1/4"	5 1/4"	4 1/4"	3"
SPRUCE PINE-FIR-SOUTH (G=0.36)	≤ 30.0	6"	6"	6"	6"	6"	5 1/4"	4 1/2"

BUILD-OUT MOUNT TO MIN. 2"x4" WOOD STUD WITH MINIMUM 1/2" PLYWOOD
(SEE DETAIL 1 ON SHEET 17)

WOOD GRADE	MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE (psf)	SLAT SPAN RANGE													
		0'-4' *		> 4'-5' *		> 5'-6' *		> 6'-7' *		> 7'-9' *		> 9'-10' *		> 10' to 12' *	
		BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)
SOUTHERN PINE #2 (G=0.55)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
	40	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	5 1/4"	5 1/4"	5 1/4"	5 1/4"
	50	6"	6"	6"	6"	6"	6"	6"	6"	5 1/4"	5 1/4"	4"	4"	4"	4"
	60	6"	6"	6"	6"	6"	6"	5 3/4"	5 3/4"	4"	4"	3"	3"	3"	3"
DOUGLAS-FIR-SOUTH (G=0.46)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
	40	6"	6"	6"	6"	6"	6"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
SPRUCE PINE-FIR-SOUTH (G=0.36)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	5 1/4"	5"	5 1/4"	5"

* NOTE:
MAX. SPAN FOR SLAT FOR A
GIVEN A.S.D. DESIGN LOAD
SHALL **NEVER** EXCEED MAX.
SLAT SPAN INDICATED ON
SLAT PERFORMANCE CHARTS
ON SHEET 17.

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



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

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

ROLL-UP SHUTTER SYSTEM W/
GV-60 END RETENTION SLAT L.M.I



The Sun & Shutter Specialists
Cerrada de Acolafenco 237, Bodega 48,
Colonia San Sebastian, P.I. Pical Pantlaco
Ciudad de Mexico-02510

W.H.
DRAWN BY:

6/19/2026
DATE:

26-045
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-

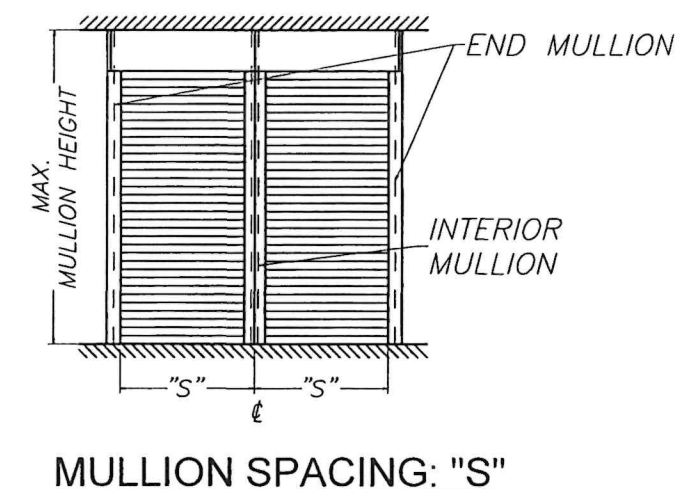
SHEET 18 OF 21

SCHEDULE 1a
FLOOR TO CEILING (TRAPPED) MOUNTING
MAX. SPAN (ft) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D.
DESIGN PRESSURE RATING (p.s.f.), & A MAX. MULLION SPACING (ft) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION				Ⓚ 4"x8"x1/4" MULLION				Ⓛ 4"x4"x1/4" MULLION	
		ORIENTATION #2 (⇐) †		ORIENTATION #1 (⇐) †		ORIENTATION #2 (⇐) †		ORIENTATION #1 (⇐) †			
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	INTERIOR	
30.0	14'-2 3/16"	-	8'-2"	-	10'-0"	9'-4"	8'-11"	-	10'-0"	-	
35.0	14'-2 3/16"	-	8'-2"	-	10'-0"	9'-4"	8'-11"	-	10'-0"	-	
40.0	14'-2 3/16"	-	8'-0"	-	10'-0"	9'-4"	8'-10"	-	10'-0"	-	
45.0	14'-2 3/16"	-	8'-0"	-	9'-10"	9'-4"	8'-8"	-	10'-0"	-	
50.0	14'-2 3/16"	-	-	-	9'-9"	9'-4"	8'-7"	-	10'-0"	-	
55.0	14'-2 3/16"	-	-	-	9'-8"	9'-4"	8'-6"	-	10'-0"	-	
60.0	14'-2 3/16"	-	-	-	9'-8"	9'-4"	8'-5"	-	10'-0"	-	

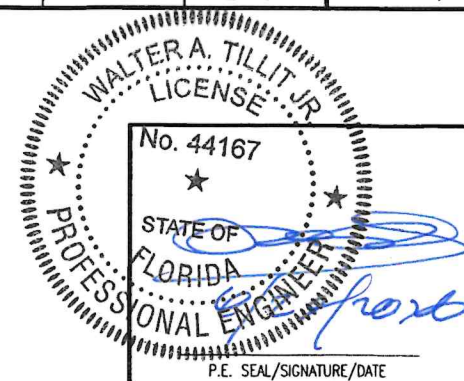
SCHEDULE 2a
WALL MOUNTING
MAX. SPAN (FT) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D.
DESIGN PRESSURE RATING (P.S.F.), & A MAX. MULLION SPACING (FT) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION				Ⓚ 4"x8"x1/4" MULLION				Ⓛ 4"x4"x1/4" MULLION	
		ORIENTATION #2 (⇐) †		ORIENTATION #1 (⇐) †		ORIENTATION #2 (⇐) †		ORIENTATION #1 (⇐) †			
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	INTERIOR	
30.0	14'-2 3/16"	7'-10"	9'-0"	6'-6"	10'-6"	9'-4"	8'-11"	7'-0"	12'-0"	7'-4"	
35.0	14'-2 3/16"	7'-7"	8'-4"	6'-3"	10'-3"	9'-4"	8'-11"	6'-9"	12'-0"	7'-3"	
40.0	14'-2 3/16"	7'-6"	8'-0"	6'-2"	10'-0"	9'-4"	8'-10"	6'-9"	12'-0"	7'-2"	
45.0	14'-2 3/16"	7'-6"	8'-0"	6'-1"	9'-10"	9'-4"	8'-8"	6'-8"	12'-0"	7'-1"	
50.0	14'-2 3/16"	7'-6"	7'-10"	6'-1"	9'-9"	9'-4"	8'-7"	6'-8"	12'-0"	7'-1"	
55.0	14'-2 3/16"	7'-6"	7'-10"	6'-0"	9'-9"	9'-4"	8'-6"	6'-7"	12'-0"	7'-0"	
60.0	14'-2 3/16"	7'-6"	7'-10"	6'-0"	9'-9"	9'-4"	8'-5"	6'-7"	12'-0"	7'-0"	



* MAXIMUM MULLION SPACING SHALL BE SUCH THAT MAX. ALLOWABLE WALL MOUNTED SLAT SPAN FOR THAT A.S.D. DESIGN PRESSURE RATING SHALL NOT BE EXCEEDED.

† MULLION ORIENTATION IS AS SEEN FROM THE OUTSIDE (EXTERIOR) OF PRODUCT.



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TILTECO INC.					gaviota				
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167					The Sun & Shutter Specialists Carrada de Acololenco 237, Bodega 48, Colonla San Sebastian, P.I. Pical Panlaco Ciudad de Mexico-02510				
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DRAWING No.			
1	OLD 23-191	5/19/26	3	-	-	26-045			
2	-	-	4	-	-	SHEET 19 OF 21			

SCHEDULE 1b
FLOOR TO CEILING (TRAPPED) MOUNTING MAX. SPAN (ft) FOR END AND INTERIOR MULLIONS FOR A GIVEN
A.S.D. DESIGN PRESSURE RATING (p.s.f.), & A 12'-0" MAX. MULLION SPACING (ft) *

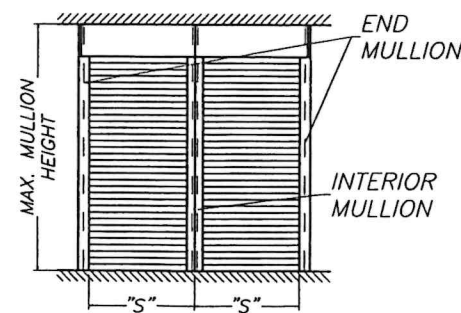
MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION					ⓑ 4"x8"x1/4" MULLION				
		ORIENTATION #2 (⇌)†		ORIENTATION #1 (Ⓛ)†			ORIENTATION #2 (⇌)†		ORIENTATION #1 (Ⓛ)†		
		END	INTERIOR	END	INTERIOR	END	END	INTERIOR	END	INTERIOR	INTERIOR
30.0	12'-0"	10'-0"	10'-0"	8'-2"	10'-0"	10'-0"	10'-0"	10'-0"	8'-11"	10'-0"	9'-0"
35.0	12'-0"	9'-7"	9'-6"	8'-0"	10'-0"	10'-0"	10'-0"	10'-0"	8'-5"	10'-0"	8'-6"
40.0	12'-0"	9'-1"	9'-1"	8'-0"	10'-0"	10'-0"	10'-0"	10'-0"	8'-0"	10'-0"	8'-2"
45.0	12'-0"	8'-9"	8'-9"	-	10'-0"	10'-0"	9'-6"	-	10'-0"	-	-
50.0	12'-0"	8'-4"	8'-6"	-	10'-0"	10'-0"	9'-2"	-	10'-0"	-	-
55.0	12'-0"	8'-1"	8'-2"	-	9'-7"	10'-0"	8'-11"	-	10'-0"	-	-
60.0	12'-0"	-	8'-2"	-	9'-7"	10'-0"	8'-8"	-	10'-0"	-	-

SCHEDULE 2b
WALL MOUNTING MAX. SPAN (FT) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D.
DESIGN PRESSURE RATING (P.S.F.), & A 12'-0" MAX. MULLION SPACING (FT) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION					ⓑ 4"x8"x1/4" MULLION				
		ORIENTATION #2 (⇌)†		ORIENTATION #1 (Ⓛ)†			ORIENTATION #2 (⇌)†		ORIENTATION #1 (Ⓛ)†		
		END	INTERIOR	END	INTERIOR	END	END	INTERIOR	END	INTERIOR	INTERIOR
30.0	12'-0"	9'-9"	11'-6"	9'-9"	12'-0"	12'-0"	12'-0"	12'-0"	10'-7"	12'-0"	9'-0"
35.0	12'-0"	9'-2"	10'-11"	9'-2"	12'-0"	12'-0"	11'-11"	10'-7"	12'-0"	12'-0"	8'-6"
40.0	12'-0"	8'-9"	10'-5"	8'-9"	12'-0"	11'-8"	11'-4"	9'-6"	12'-0"	12'-0"	8'-2"
45.0	12'-0"	8'-4"	10'-1"	8'-4"	12'-0"	10'-11"	10'-11"	9'-1"	12'-0"	12'-0"	7'-10"
50.0	12'-0"	8'-1"	9'-8"	8'-1"	12'-0"	10'-4"	10'-7"	8'-9"	12'-0"	12'-0"	7'-5"
55.0	12'-0"	7'-10"	9'-5"	7'-10"	11'-8"	9'-10"	10'-3"	8'-6"	12'-0"	12'-0"	7'-4"
60.0	12'-0"	7'-6"	9'-2"	7'-6"	11'-4"	9'-5"	9'-11"	8'-3"	12'-0"	12'-0"	7'-2"

SCHEDULE 1b' (LIMITED LOAD, MULLION SPACING & SPAN INSTALLATION)
FLOOR TO CEILING (TRAPPED) MOUNTED MAX. SPAN (ft) FOR END & INTERIOR MULLIONS FOR A GIVEN
A.S.D. DESIGN PRESSURE (p.s.f.), AND FOR 12'-0" (CASE I) & 8'-0" (CASES Ia) MAX. MULLION SPACING (ft) *

INSTALLATION CASES	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)						
			ⓐ 4"x6"x1/4" MULLION		ⓑ 4"x8"x1/4" MULLION			Ⓦ 4"x4"x1/4" MULLION	
			ORIENTATION #2 (⇌)†		ORIENTATION #1 (Ⓛ)†		ORIENTATION #1 (Ⓛ)†	ORIENTATION #1 (Ⓛ)†	
			END	INTERIOR	END	INTERIOR		INTERIOR	INTERIOR
CASE I	30.0	12'-0"	-	10'-0"	10'-0"	10'-0"	10'-0"	9'-0"	
	35.0	12'-0"	-	10'-0"	10'-0"	10'-0"	10'-0"	8'-6"	
	40.0	12'-0"	-	10'-0"	10'-0"	10'-0"	10'-0"	8'-2"	
	45.0	12'-0"	-	10'-0"	10'-0"	9'-6"	10'-0"	-	
	50.0	12'-0"	-	10'-0"	10'-0"	9'-2"	10'-0"	-	
	55.0	12'-0"	-	9'-7"	10'-0"	8'-11"	10'-0"	-	
CASE Ia	30.0	8'-0"	-	9'-0"	9'-0"	9'-0"	9'-0"	10'-0"	
	35.0	8'-0"	-	9'-0"	9'-0"	9'-0"	9'-0"	9'-9"	
	40.0	8'-0"	-	9'-0"	9'-0"	9'-0"	9'-0"	9'-4"	
	45.0	8'-0"	-	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	
	50.0	8'-0"	-	9'-0"	9'-0"	9'-0"	9'-0"	8'-7"	
	55.0	8'-0"	-	9'-0"	9'-0"	9'-0"	9'-0"	8'-5"	
	60.0	8'-0"	-	9'-0"	9'-0"	9'-0"	9'-0"	8'-2"	



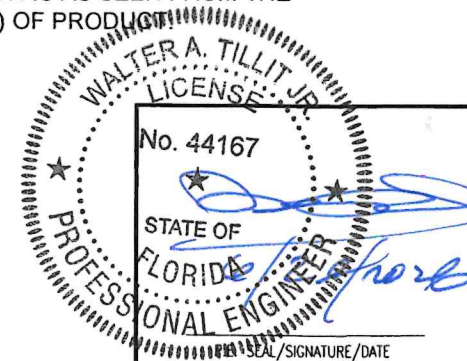
MULLION SPACING: "S"

* MAXIMUM MULLION SPACING SHALL BE SUCH THAT
MAX. ALLOWABLE WALL MOUNTED SLAT SPAN FOR
THAT DESIGN LOAD SHALL NOT BE EXCEEDED.

† MULLION ORIENTATION IS AS SEEN FROM THE
OUTSIDE (EXTERIOR) OF PRODUCT

SCHEDULE 2b' (LIMITED LOAD, MULLION SPACING & SPAN INSTALLATION)
WALL MOUNTED MAX. SPAN (ft) FOR END & INTERIOR MULLIONS FOR A GIVEN A.S.D. DESIGN
PRESSURE RATING (p.s.f.), AND FOR 12'-0" (CASE I') & 8'-0" (CASE II') MAX. MULLION SPACING (ft) *

INSTALLATION CASES	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)						
			ⓐ 4"x6"x1/4" MULLION		ⓑ 4"x8"x1/4" MULLION			Ⓦ 4"x4"x1/4" MULLION	
			ORIENTATION #2 (⇌)†		ORIENTATION #1 (Ⓛ)†		ORIENTATION #1 (Ⓛ)†	ORIENTATION #1 (Ⓛ)†	
			END	INTERIOR	END	INTERIOR		INTERIOR	INTERIOR
CASE I'	30.0	12'-0"	-	10'-0"	10'-0"	10'-0"	10'-0"	9'-0"	
	35.0	12'-0"	-	10'-0"	10'-0"	10'-0"	10'-0"	8'-6"	
	40.0	12'-0"	-	10'-0"	10'-0"	10'-0"	10'-0"	8'-2"	
	45.0	12'-0"	-	10'-0"	10'-0"	9'-6"	10'-0"	7'-10"	
	50.0	12'-0"	-	10'-0"	10'-0"	9'-2"	10'-0"	7'-5"	
	55.0	12'-0"	-	9'-7"	10'-0"	8'-11"	10'-0"	7'-4"	
CASE II'	30.0	8'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	10'-0"	
	35.0	8'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-9"	
	40.0	8'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-4"	
	45.0	8'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	
	50.0	8'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	8'-7"	
	55.0	8'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	8'-5"	
	60.0	8'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	8'-2"	



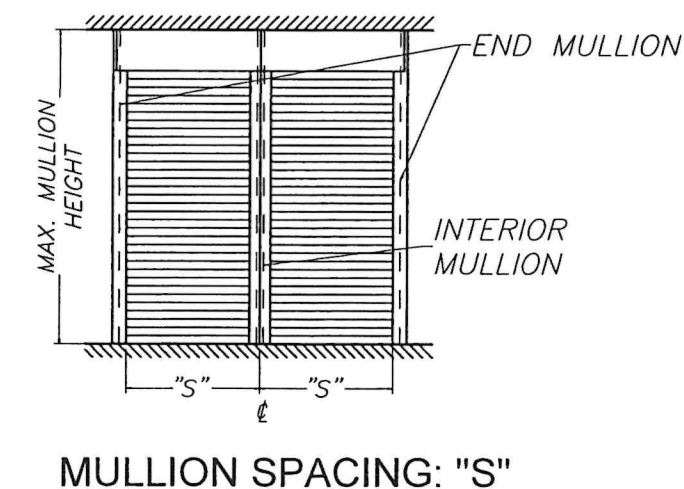
FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)					
©2026 TILTECO, INC.			ROLL-UP SHUTTER SYSTEM W/ GV-60 END RETENTION SLAT L.M.I		W.H. DRAWN BY:
TILTECO INC.			gaviota The Sun & Shutter Specialists Cerrada de Acolotenco 237, Bodega 48, Colonia San Sebastian, P.I. Pical Pantaco Ciudad de Mexico-02510		6/19/2026 DATE:
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-191	6/19/26	3	-	-
2	-	-	4	-	-
DRAWING No.					26-045
SHEET 20 OF 21					

SCHEDULE 1c
FLOOR TO CEILING (TRAPPED) MOUNTING
MAX. SPAN (ft) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D.
DESIGN PRESSURE RATING (p.s.f.), & A 7'-0" MAX. MULLION SPACING (ft) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION				ⓑ 4"x8"x1/4" MULLION				ⓒ 4"x4"x1/4" MULLION	
		ORIENTATION #2 (⇌) †		ORIENTATION #1 (⏊) †		ORIENTATION #2 (⇌) †		ORIENTATION #1 (⏊) †			
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	INTERIOR	
30.0	7'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	
35.0	7'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	
40.0	7'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-9"	
45.0	7'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-4"	
50.0	7'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-1"	
55.0	7'-0"	10'-0"	9'-10"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	8'-9"	
60.0	7'-0"	10'-0"	9'-10"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	8'-6"	

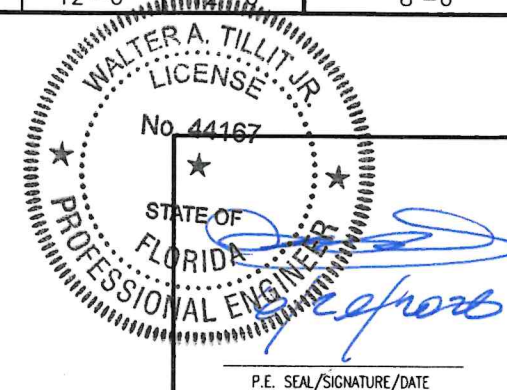
SCHEDULE 2c
WALL MOUNTING
MAX. SPAN (FT) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D. DESIGN
PRESSURE RATING (P.S.F.), & AND 7'-0" MAX. MULLION SPACING (FT) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION				ⓑ 4"x8"x1/4" MULLION				ⓒ 4"x4"x1/4" MULLION	
		ORIENTATION #2 (⇌) †		ORIENTATION #1 (⏊) †		ORIENTATION #2 (⇌) †		ORIENTATION #1 (⏊) †			
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	INTERIOR	
30.0	7'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	10'-0"	
35.0	7'-0"	12'-0"	11'-5"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	10'-0"	
40.0	7'-0"	12'-0"	10'-11"	12'-0"	12'-0"	12'-0"	11'-10"	12'-0"	12'-0"	9'-9"	
45.0	7'-0"	12'-0"	10'-6"	12'-0"	12'-0"	12'-0"	11'-5"	12'-0"	12'-0"	9'-4"	
50.0	7'-0"	12'-0"	10'-2"	12'-0"	12'-0"	12'-0"	11'-0"	12'-0"	12'-0"	9'-1"	
55.0	7'-0"	12'-0"	9'-10"	12'-0"	12'-0"	12'-0"	10'-8"	12'-0"	12'-0"	8'-9"	
60.0	7'-0"	12'-0"	9'-10"	11'-2"	12'-0"	12'-0"	10'-4"	12'-0"	12'-0"	8'-6"	



* MAXIMUM MULLION SPACING SHALL BE SUCH THAT MAX. ALLOWABLE WALL MOUNTED SLAT SPAN FOR THAT A.S.D. DESIGN PRESSURE RATING SHALL NOT BE EXCEEDED.

† MULLION ORIENTATION IS AS SEEN FROM THE OUTSIDE (EXTERIOR) OF PRODUCT.



FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)											
©2026 TILTECO, INC.					ROLL-UP SHUTTER SYSTEM W/ GV-60 END RETENTION SLAT L.M.I			W.H. DRAWN BY:			
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36TH ST., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167					gaviota The Sun & Shutter Specialists Cerrada de Acolotenco 237, Bodega 48, Colonia San Sebastian, P.I. Pical Panlaco Ciudad de Mexico-02510			6/19/2026 DATE:			
								26-045			
								DRAWING No.			
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE						
1	OLD 23-191	6/19/26	3	-	-						
2	-	-	4	-	-						