

GENERAL NOTES:

1. FABRIC END RETENTION ROLL-UP SHUTTER (L.M.I.) SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE **2023 (8th EDITION)** OF THE FLORIDA BUILDING CODE.
DESIGN WIND LOADS FOR EACH INSTALLATION SHALL BE DETERMINED AS PER SECTION 1609 (N.H.V.H.Z.) OF THE ABOVE MENTIONED CODE, FOR A WIND SPEED AS REQUIRED BY JURISDICTION WHERE THIS PRODUCT WILL BE INSTALLED AND FOR A DIRECTIONALITY FACTOR $K_d=0.85$, USING **ASCE 7-22**, AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEET 9.

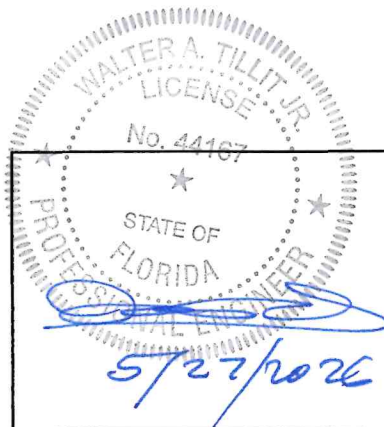
IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 1.

PRODUCTS ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER QAI LABORATORIES REPORTS # 22-1066 & QA-4218 PER TAS-201 (9 lb, 2"x4", 50 ft/sec), TAS 202, TAS-203 PROTOCOLS & ASTM E-1996.

MAX. A.S.D. DESIGN PRESSURE RATING SHALL BE AS PER SCHEDULE ON SHEET 9.

2. FABRIC TO BE AS SPECIFIED ON SHEET 2.
3. ALL REMAINING COMPONENTS SHALL BE AS SPECIFIED ON SHEET 3 & 4.
4. ANCHORS TO BE AS MANUFACTURED BY REDHEAD AND AS PER DETAILS ON SHEETS 6 & 7. AND SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.
5. ALL SCREWS TO BE ITW/BUILDEX TEK SCREWS WITH DIMENSIONS SHOWN ON SHEET 6.
6. THIS PRODUCT SHALL BE ONLY INSTALLED WHEN A HURRICANE WARNING IS ISSUED AND SHALL BE IMMEDIATELY REMOVED AFTER THOSE CONDITIONS ARE OVER. FABRIC SHALL BE STORED AT BOX, NOT EXPOSED TO THE WEATHER AND SHALL BE PROPERLY MAINTAINED, PER MANUFACTURER'S RECOMMENDATIONS.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE EXISTING STRUCTURE IS DESIGNED TO SUPPORT $V_x=1500$ lb/ft AND $V_y=640$ lb/ft FORCES AT BOTH JAMBS.
8. ROLL-UP MECHANISM AND BOX ASSEMBLY NOT PART OF THIS APPROVAL.
9. (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 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 MODIFIED.
(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 A 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.
10. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

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



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

©2026 TILTECO, INC.

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

FABRIC END RETENTION
ROLL UP SHUTTER (L.M.I.)

ROLLINGSHIELD Inc.
9875 NW 79th AVE.
HIALEAH GARDENS MIAMI, FL. 33016

W.H.
DRAWN BY:

4/28/2026
DATE:

26-038
DRAWING No.

SHEET 1 OF 9

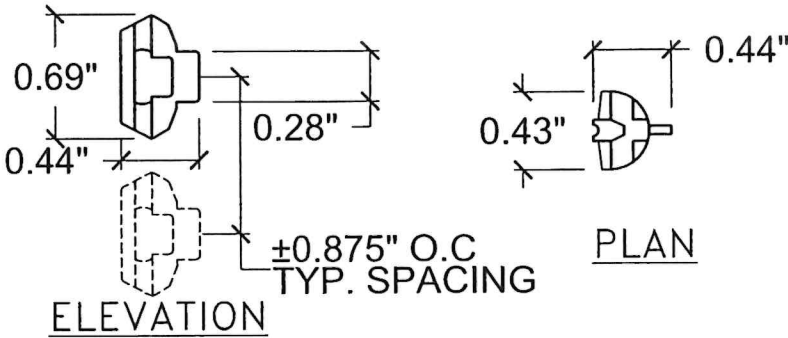
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2	-	-	4	-	-

1 OMEGATEX: MODEL: T18KKS

A FABRIC 0.027"DIAMETER VINYL COATED 1500 DENIER POLYESTER CORE YARNS IN WARP AND 0.030" DIAMETER VINYL COATED 2000 DENIER TWARON CORE YARNS IN FILL.				
ATTRIBUTE	ASTM	WARP	FILL	TYPICAL
Construction	D3775-96	22.0+/-0.5	13.5+/-0.5	-
Weight, oz/yd2	D3776-96	-	-	19.524
Tensile Strength (grab), lbf	D5034-95	711.3	748.9	-
Tensile Strength (strip), lbf	D5035-95	416.7	251.4	-
Tear Strength, (Trapezoidal), lbf	D1117-97	181.6	285	-
Elongation, %	D5035-95	42.8	12.3	-
Abrasion Resistance's	D3884-92	No exposure to core yarn	No exposure to core yarn	-
Weatherability, 12000 hours	G53-96	Trace discoloration	Trace discoloration	-
Ball Burst, lbf*	D3787	-	-	460+
Bursting Strength, psi*	D3786	-	-	1250+
Puncture Resistance, lbf	D4833	-	-	364
Porosity Calculation	-	-	-	Open:9%/Cover:91%
Fire Classification - Passes California U.S. Title 19 (small scale), NFPA701-2015 TM#1 (small scale), NFPA 101 (Class A Rating), UBC (Class 1), BS 5867 2008 Part 2 Type B Performance, NFPA 701 TM#2 (large scale).				
FABRIC MAY BE SEAMED HORIZONTALLY TO JOIN MULTIPLE PIECES USING 1" (MIN) OVERLAP WITH HOT AIR WELDING AT 700° F (MIN) & REQUIRED SPEED (in/sec) AS PER WELDING MACHINE MANUFACTURER.				

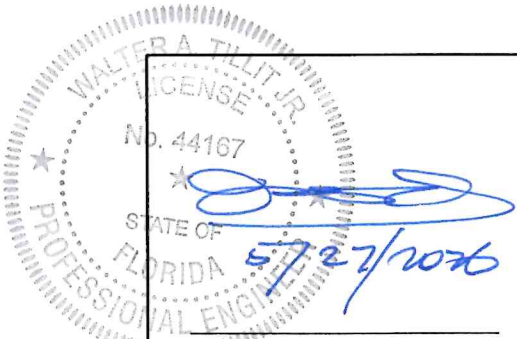
2B ZipKeder/Welding system, By PASKAL PK Zippers & fasteners

PLASTIC ELEMENTS	ATTRIBUTE	2B BULLET 110-23
	Color Available	Black/White
	Raw Material	POM/Nylon
TAPE	Fit to Rail Diameter	11.5-13 mm
	Color Available	Black/White
	Raw Material	PES/PP
	Stitchable	+
	Weldable to PVC/PP 1 Flap	+
TECH FEATURES	Lateral Strength One Element	100 Kg
	Folding Possibility	+
	Water Proof	-



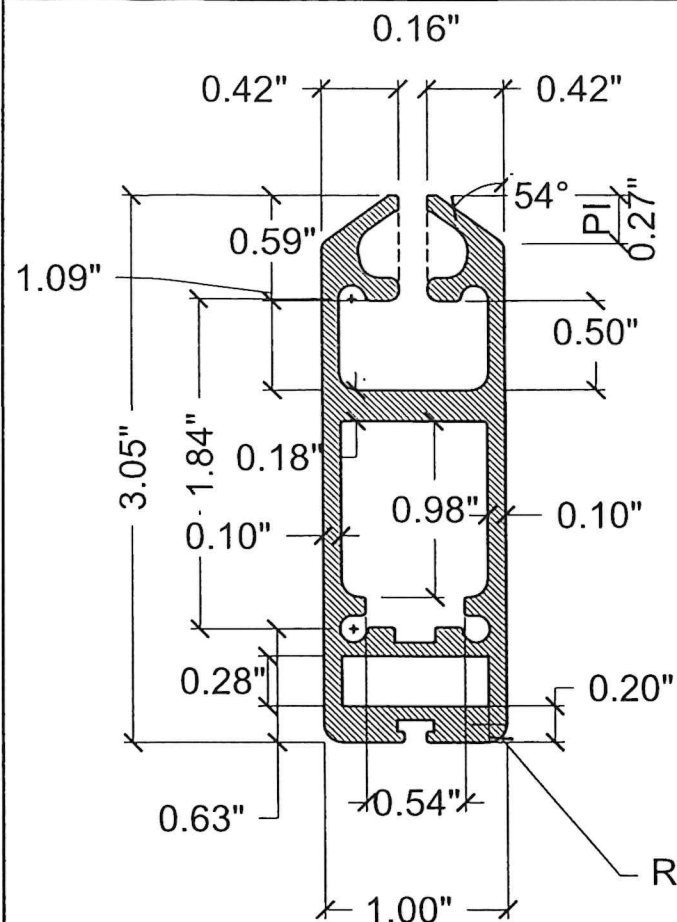
2B ZipKeder (BULLETS ZIPPER)

COMPONENTS
SCALE: N.T.S

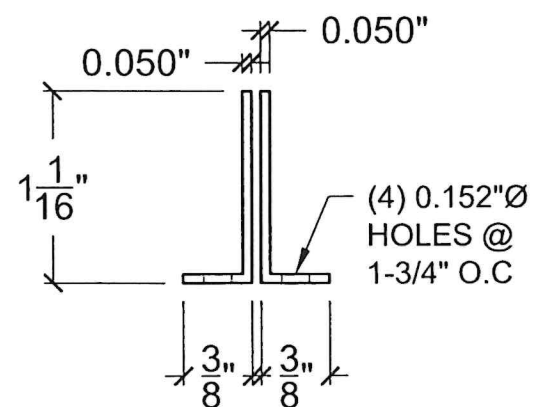


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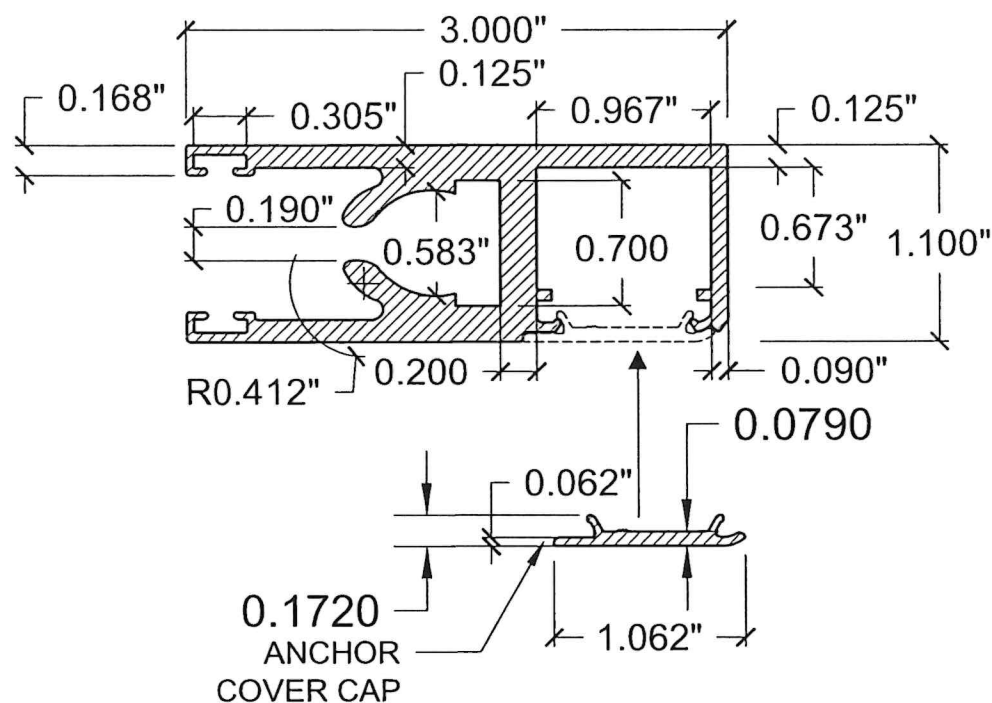
FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)					
©2026 TILTECO, INC.			FABRIC END RETENTION ROLL UP SHUTTER (L.M.I.)		W.H. DRAWN BY:
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			ROLLINGSHIELD Inc. 9875 NW 79th AVE. HIALEAH GARDENS MIAMI, FL. 33016		4/28/2026 DATE:
			26-038 DRAWING No.		SHEET 2 OF 9
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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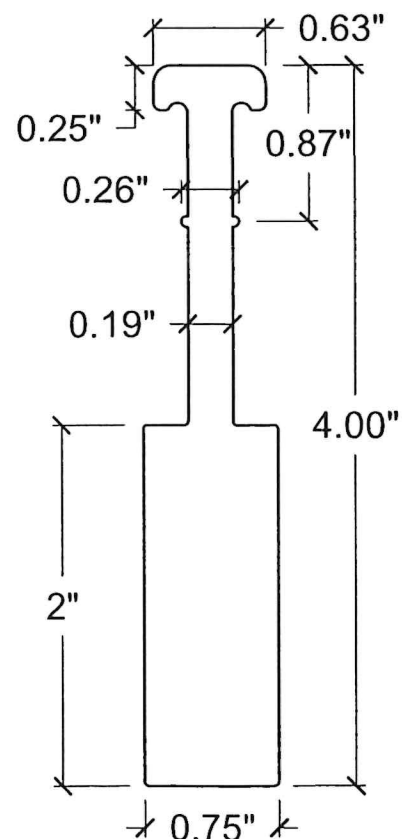
(4B) BOTTOM BAR
6063-T6 ALUM. ALLOY



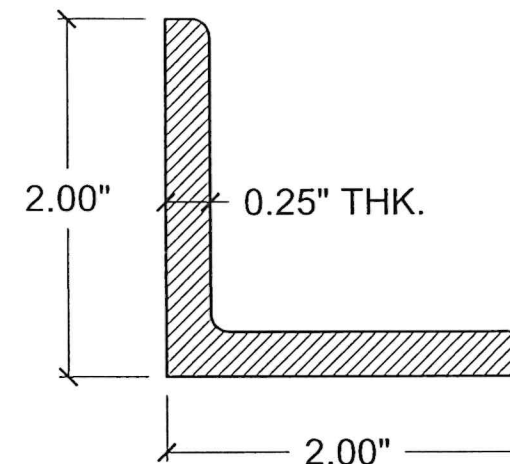
END RETENTION ANGLES
(LENGTH 2 3/4")
3105-H14 ALUM. ALLOY



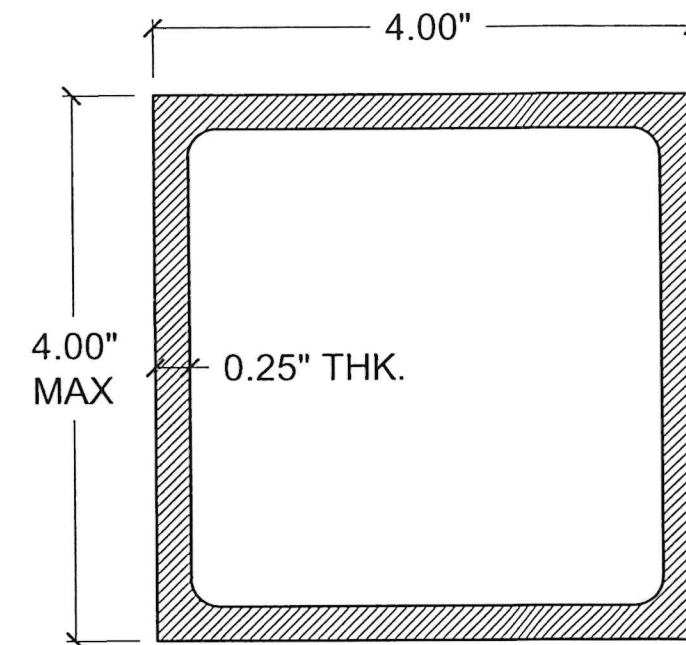
(3B) END RETENTION SIDE RAIL
6063-T6 ALUM. ALLOY



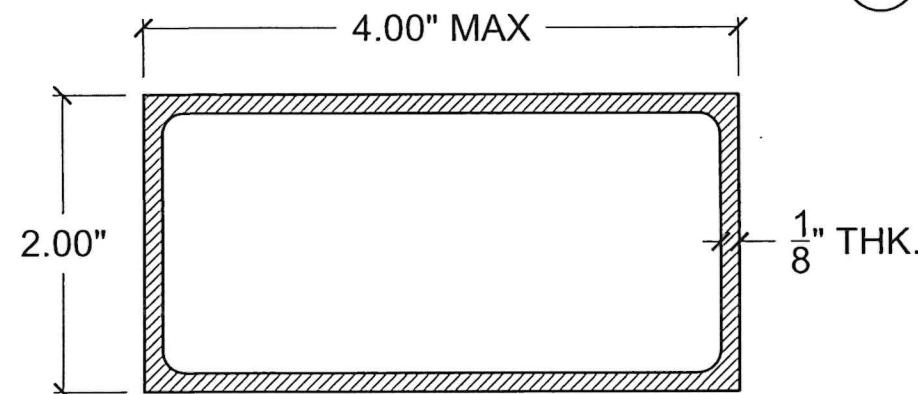
END RETENTION "T" BAR
(3/16" THICK)
CAST ALUM.



(5) TRAPPED ANGLE
6061-T6 ALUM. ALLOY



(6) BUILD-OUT TUBE
6061-T6 ALUM. ALLOY



(7) BUILD-OUT HEADER
6063-T5 ALUM. ALLOY

COMPONENTS (CONTINUED)

SCALE: N.T.S.

BOTTOM BAR (4B) ACCESSORIES



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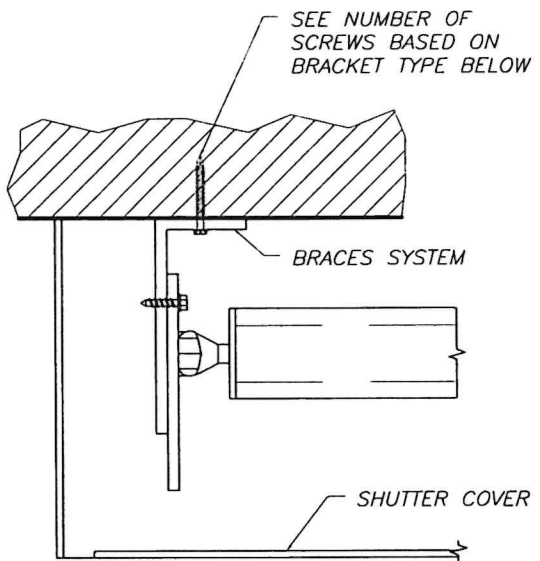
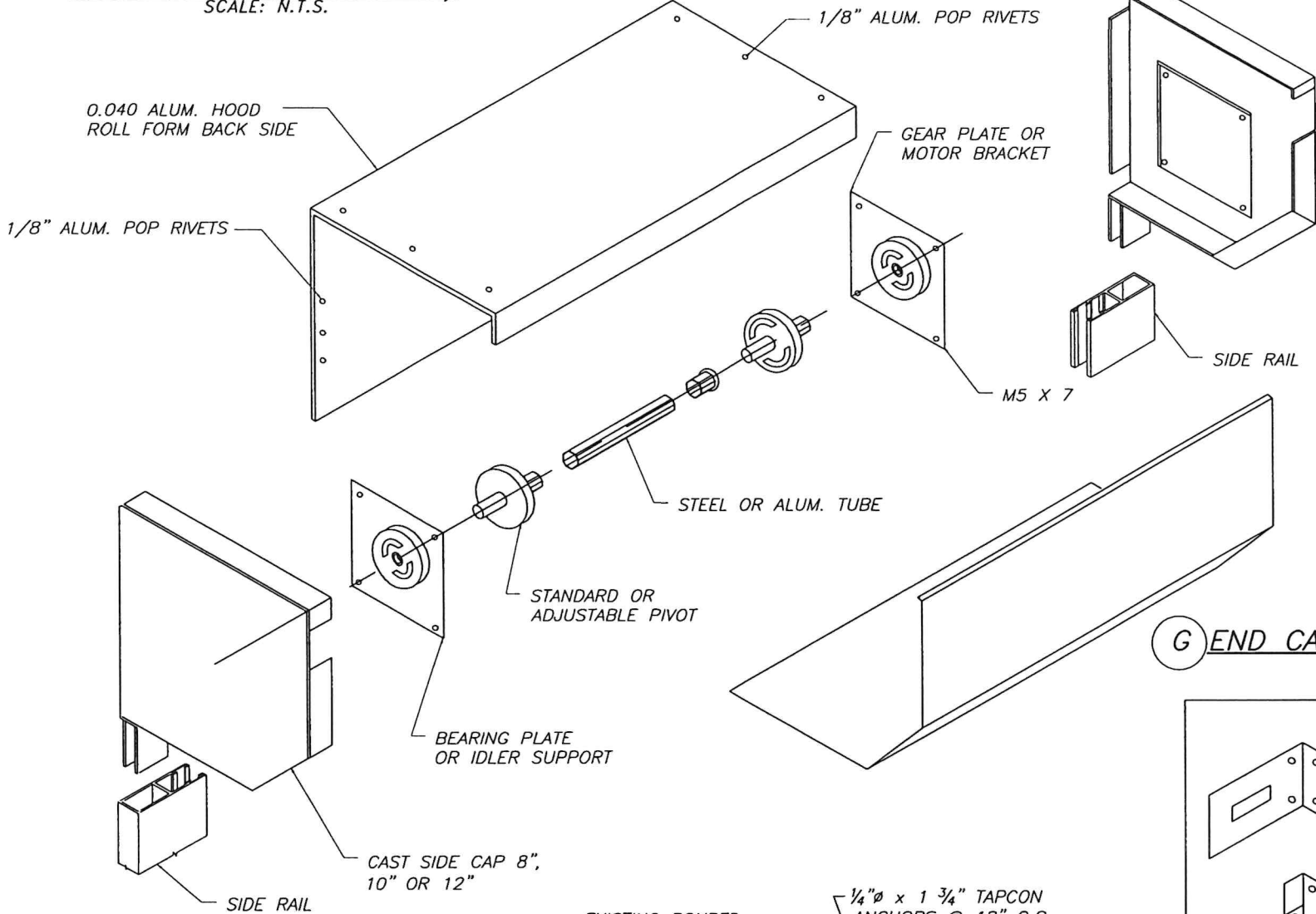
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SHEET 3 OF 9

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COMPONENTS (CONTINUED)

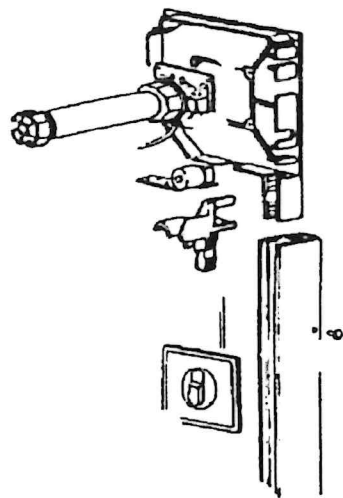
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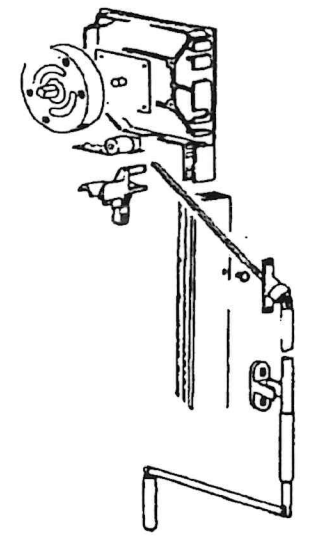
WALL INSTALLATION
(PLAN)

G END CAP SYSTEM FOR 40mm & 55mm

MOTORIZED ROLL-UP SHUTTER SYSTEM



HAND CRANK ROLL-UP SHUTTER SYSTEM

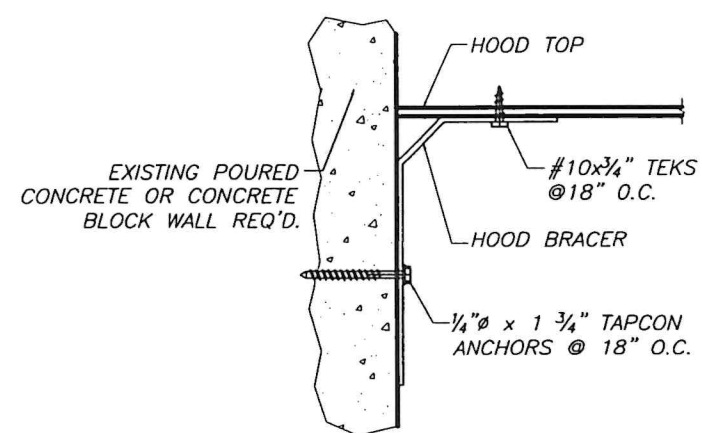


BRACKET SYSTEM

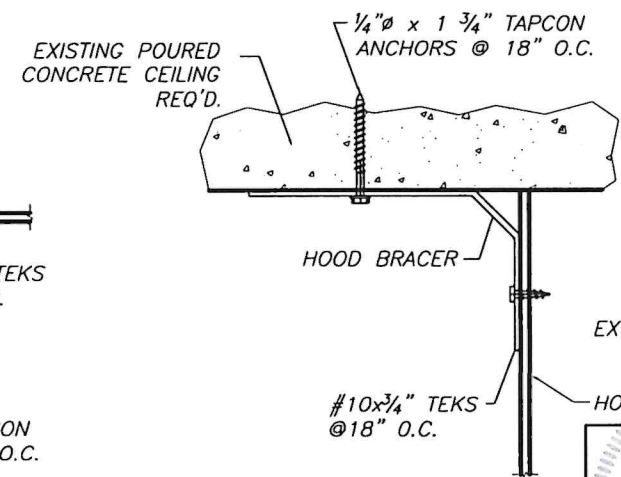
- UP TO 100 LBS SHUTTER WEIGHT
MIN. 2 ANCHORS 1/4"Ø x 1 3/4"
TAPCON OR 3 TEKS. 1/4"Ø x 1"
- UP TO 200 LBS SHUTTER WEIGHT
MIN. 3 ANCHORS 5/16"Ø x 2 1/4"
TAPCON OR 4 TEKS 1/4"Ø x 1"
- UP TO 350 LBS SHUTTER WEIGHT
MIN. 4 ANCHORS 5/16"Ø x 2 1/4"
TAPCON OR 6 TEKS 1/4"Ø x 1"

ALTERNATE ROLL-UP SHUTTER LIFTING MECHANISMS

(SEE NOTE 15 ON SHEET 1)



WALL HOOD ATTACHMENT
(SIDE VIEW)



CEILING HOOD
ATTACHMENT
(SIDE VIEW)

CUSTOM HOOD ATTACHMENT DETAIL

PROFESSIONAL SEAL
No. 44167
5/22/2026
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

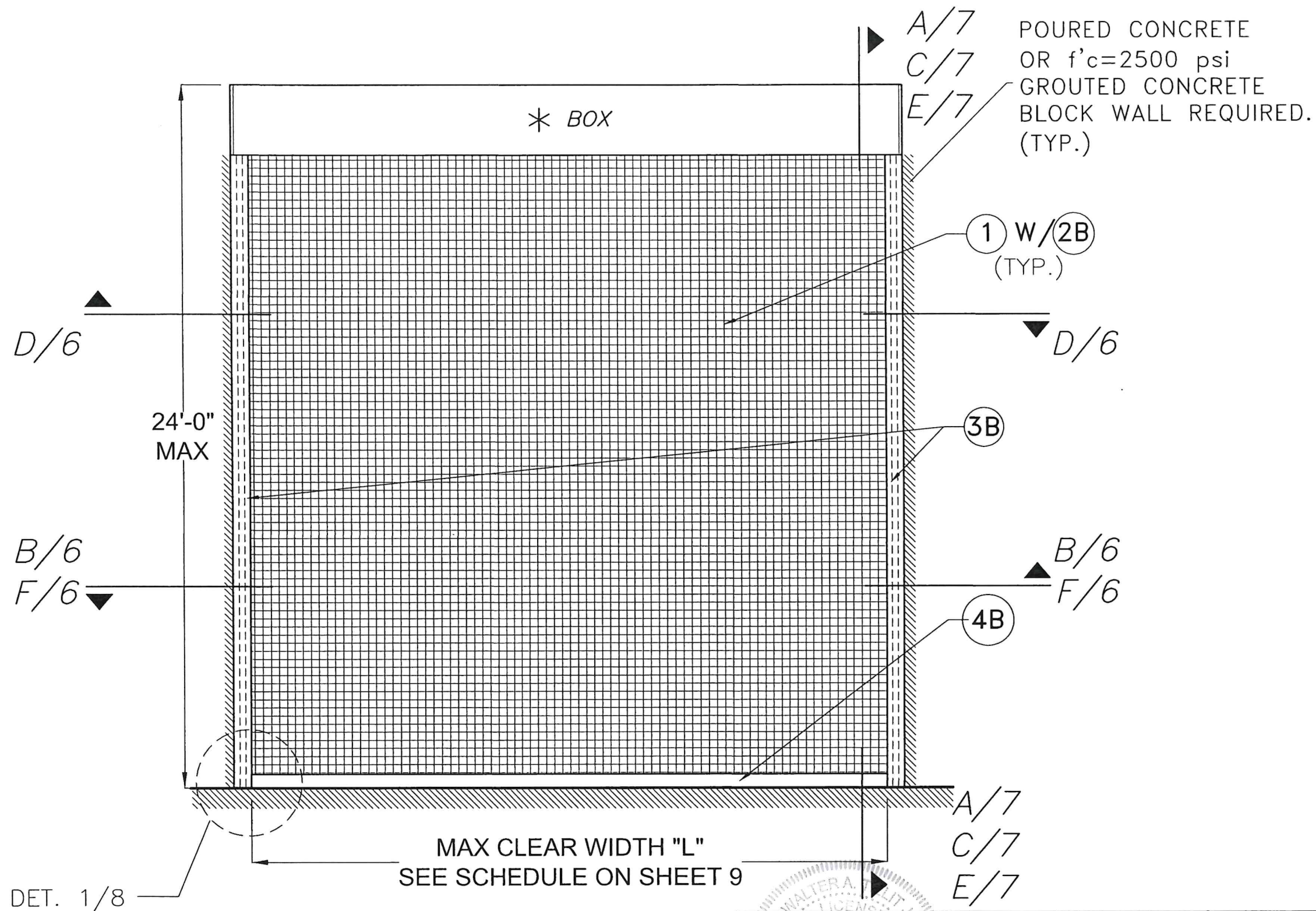
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ROLLINGSHIELD Inc. 9875 NW 79th AVE. HIALEAH GARDENS MIAMI, FL. 33016			4/28/2026 DATE:		
			26-038 DRAWING No.		
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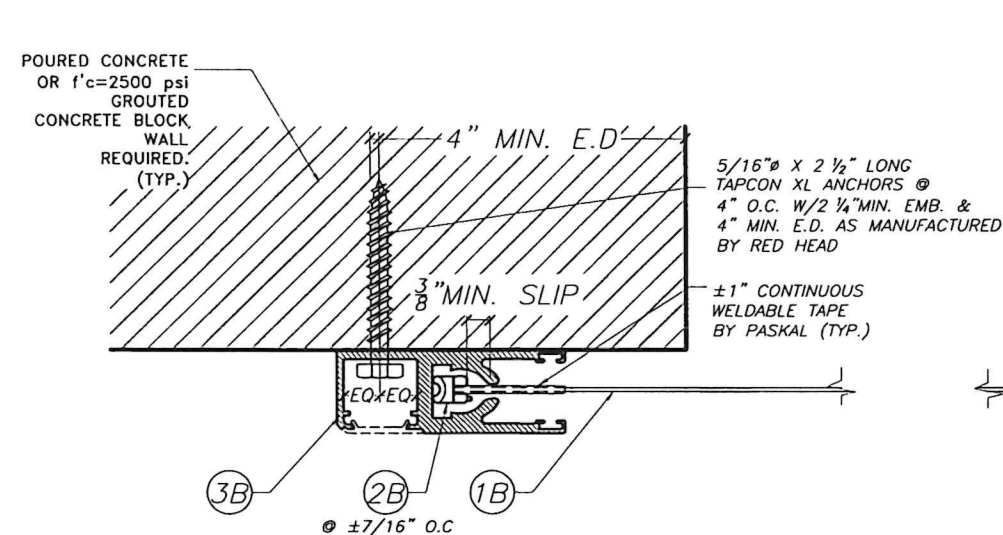
SHEET 4 OF 9



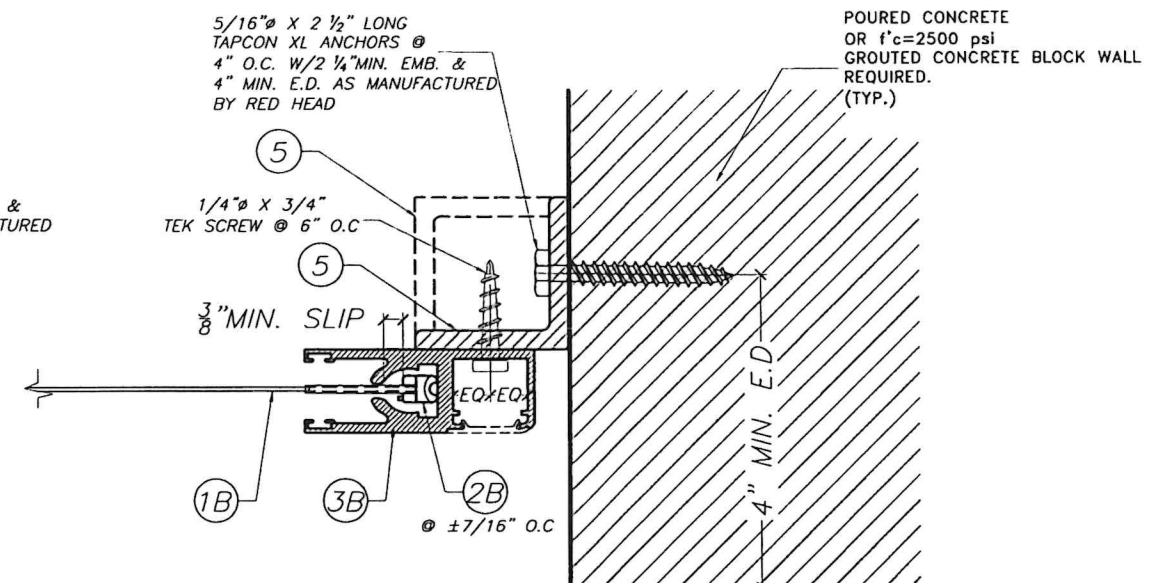
TYPICAL ELEVATION
SCALE: N.T.S.

WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE
No. 44167
STATE OF FLORIDA
4/27/2026

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					SHEET 5 of 9

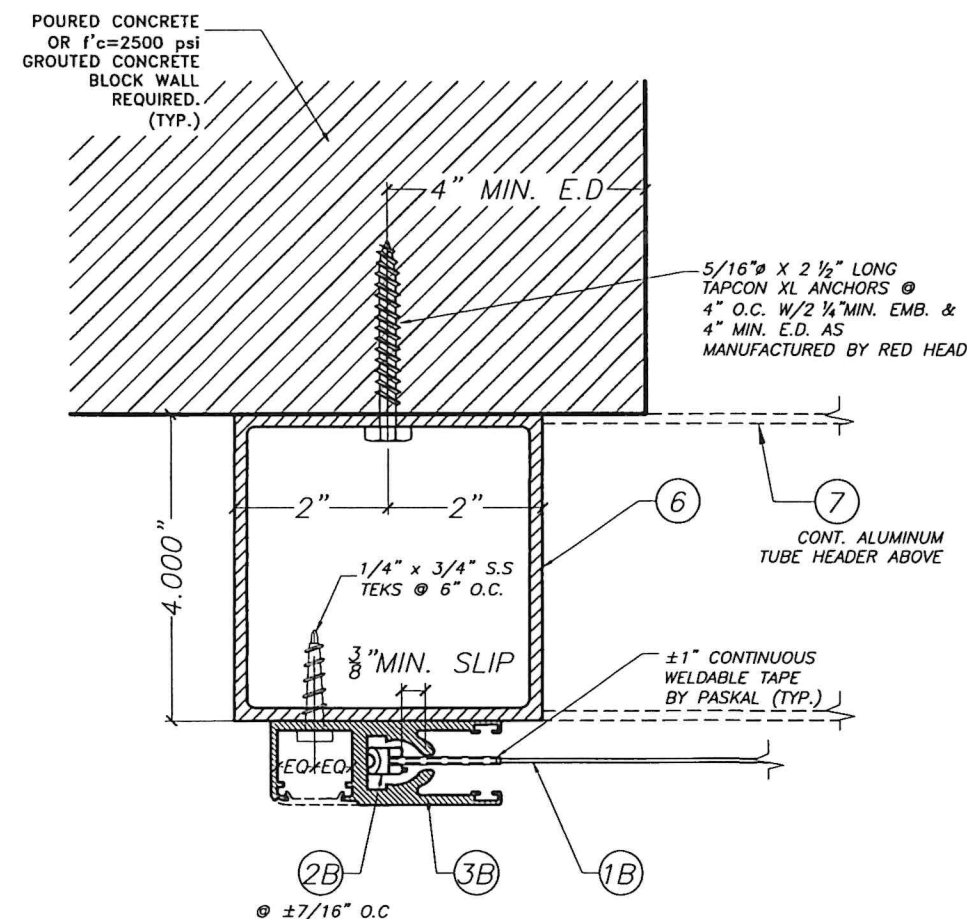


SECTION B-B: WALL MOUNTED (PLAN)*
SCALE: N.T.S.

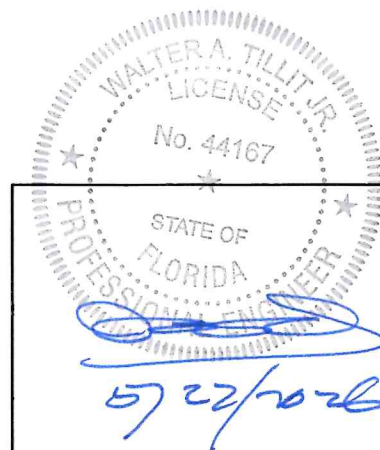


SECTION D-D: TRAPPED MOUNTED (PLAN)*
SCALE: N.T.S.

***MOUNTINGS CAN BE
COMBINED AS NEEDED
TO SUIT ANY
INSTALLATION.**



SECTION F-F: BUILD-OUT MOUNTED (PLAN)*
SCALE: N.T.S.



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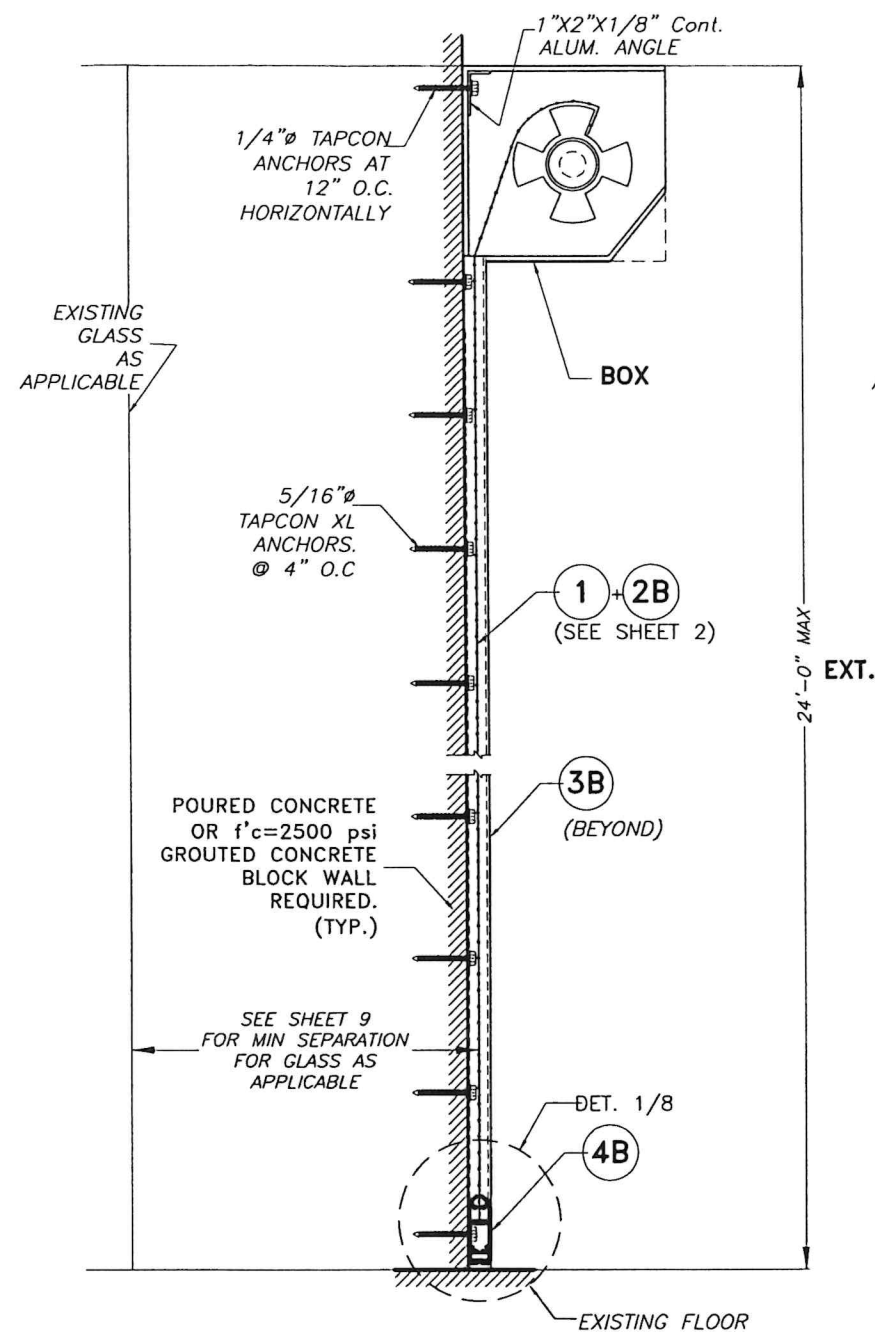
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DRAWING No.

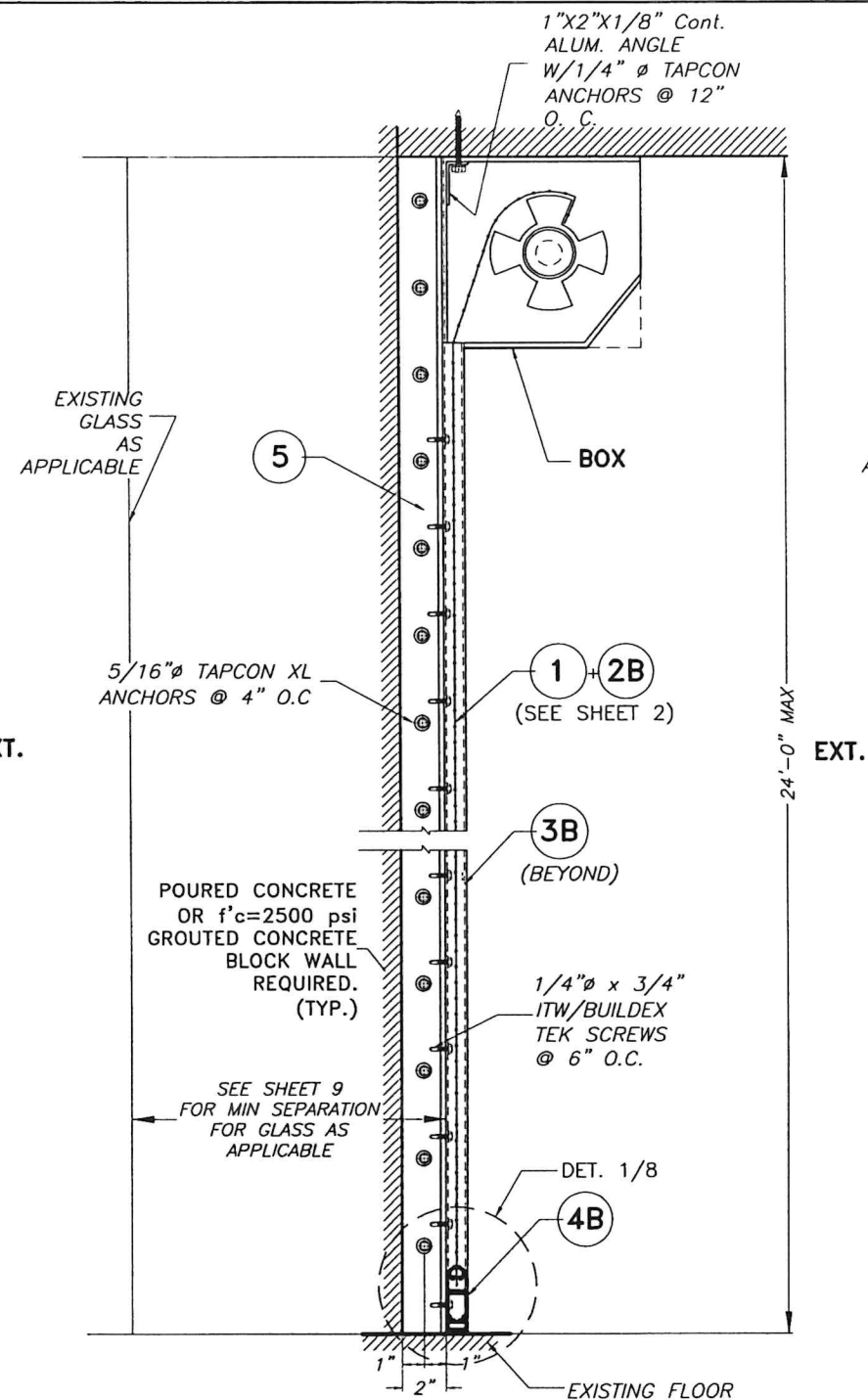
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SHEET 6 OF 9



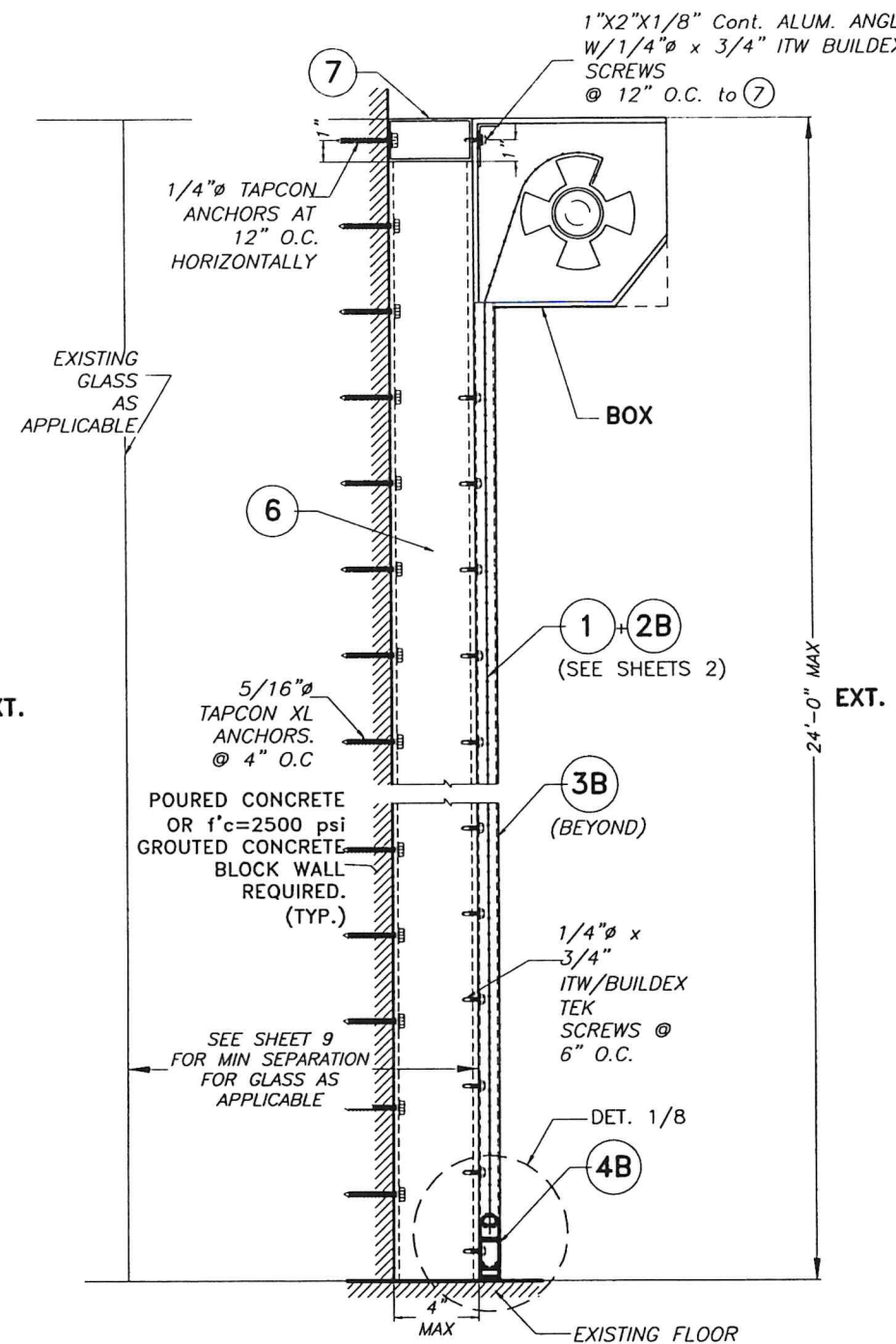
**SECTION A-A
WALL MOUNTED**

SCALE N.T.S.



**SECTION C-C
TRAPPED MOUNTED**

SCALE N.T.S.



**SECTION E-E
BUILD OUT MOUNTED**

SCALE N.T.S.

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
5/27/2026
P.E. SEAL/SIGNATURE/DATE

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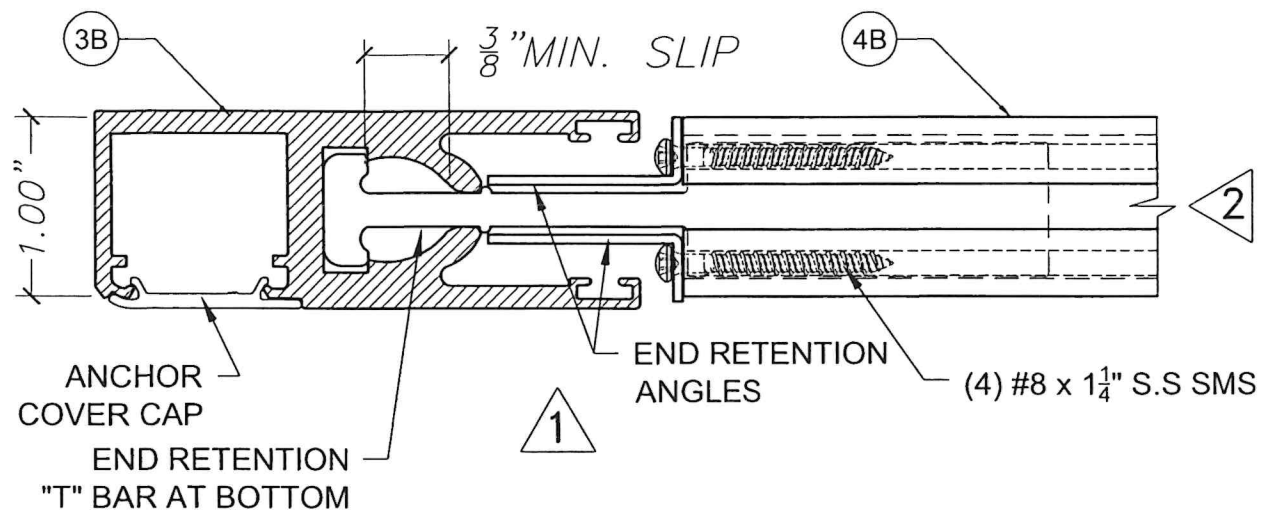
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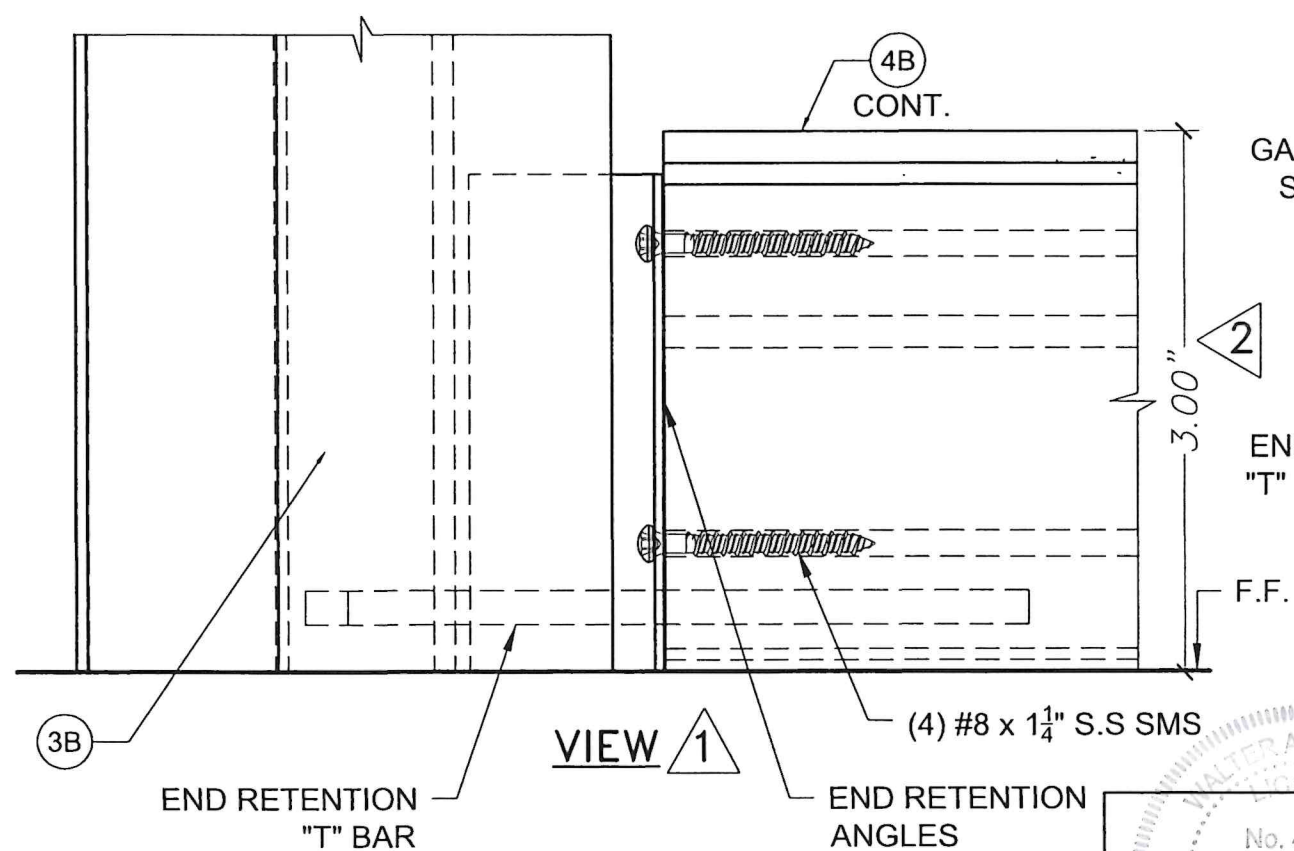
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DRAWING No.

SHEET 7 OF 9

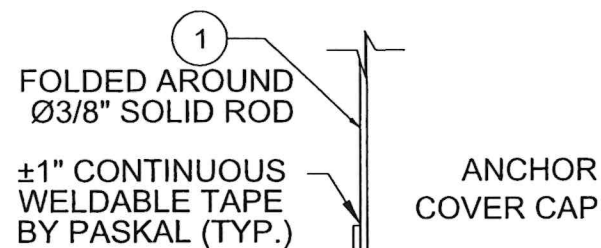
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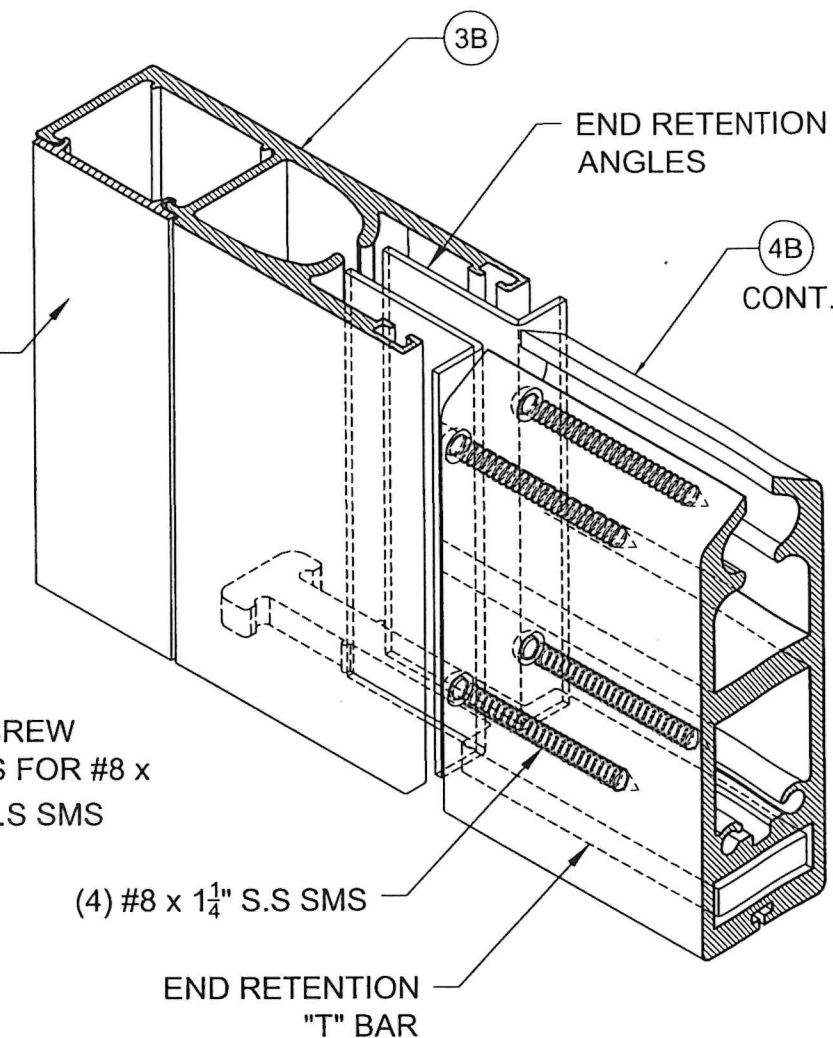
BOTTOM BAR ASSEMBLY (PLAN)



DETAIL 1
SCALE: N.T.S



VIEW 2



BOTTOM BAR ASSEMBLY ISOMETRIC
(COMPONENT 1 NOT SHOWN FOR CLARITY)



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DATE:

26-038
DRAWING No.

SHEET 8 OF 9

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	3	-	-
2	-	-	4	-	-

MAX CLEAR WIDTH "L" VS A.S.D. PRESSURE RATING
(ALL MOUNTINGS)

A.S.D. PRESSURE RATING (psf)	MAX PANEL WIDTH "L"
35.0	23'-6"
45.0	20'-0"
55.0	18'-0"
65.0	16'-6"
70.0	16'-0"
80.0	15'-9"
90.0	12'-6"
100.0	9'-6"
110.0	8'-0"
120.0	7'-6"

MIN SEPARATION TO GLASS GIVEN CLEAR WIDTH & A.S.D. PRESSURE
RATING FOR N.H.V.H.Z. INSTALLATIONS

MAX CLEAR WIDTH "L"	N.H.V.H.Z. A.S.D. PRESSURE RATING (psf)			
	WIND ZONE 3*	WIND ZONE 4*		
	ALL A.S.D. PRESSURES RATINGS	35.0 OR LESS	> 35.0 TO 70.0	> 70.0 TO 120.0
7'-6" OR LESS	1"	6"	13 1/2"	16"
> 7'-6" TO 16'-0"	1"	12"	18"	22"
> 16'-0" TO 23'-0"	1"	19"	19"	-

* WIND ZONES 3 & 4 AS DEFINED BY ASTM E-1996 STANDARD.



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FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)					
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 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			ROLLINGSHIELD Inc. 9875 NW 79th AVE. HIALEAH GARDENS MIAMI, FL. 33016		4/28/2026 DATE:
					26-038 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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