

GENERAL NOTES:

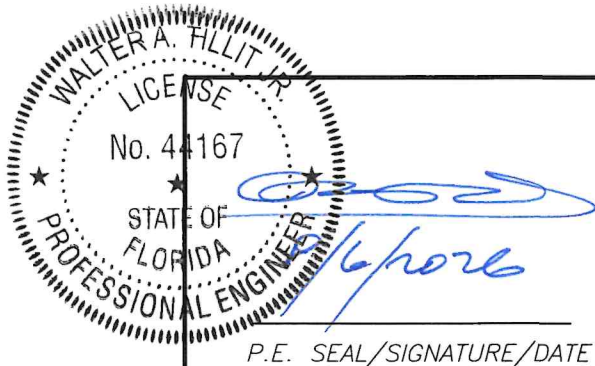
1. ROLL-UP DOOR SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE **2026 (9th EDITION)** OF THE FLORIDA BUILDING CODE. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 (H.V.H.Z.) AND 1609 (N.H.V.H.Z.) OF THE ABOVE MENTIONED CODE, FOR A WIND SPEED AS REQUIRED BY THE 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 NOTE 1.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE WITH MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 1.
- ROLL-UP DOOR'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 AND 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER BLACKWATER TECHNICAL SERVICES INC. REPORT # BT-MTD-20-001 PER TAS-201, TAS 202 & TAS-203 PROTOCOLS.

MAX. A.S.D. DESIGN PRESSURE RATING: +70.0, -70.0 PSF

IMPACT MISSILE IS 9Lb, 2"x4", 50 ft/Sec.

2. SLAT SHALL BE A.S.T.M. A-653 GR 45 STRUCTURAL QUALITY STEEL WITH MIN $F_y= 45.0$ ksi AND G-60 GALVANIZED PER A.S.T.M. A-653.
3. ALL STEEL ANGELS SHALL BE A.S.T.M. A-36 DESIGNATION, SHOP PRIMED AGAINST CORROSION PRIOR TO INSTALLATION. PAINT SHALL CONFORM TO FEDERAL SPECIFICATIONS CORRESPONDING TO GRAY PAINT OR EQUAL.
4. WINDLOCKS SHALL BE A.S.T.M. A-1011 GRADE 60 W/ A.S.T.M. A-123 G-60 GALVANIZED STEEL. ($F_y= 60$ ksi, $F_u= 80$ ksi).
5. ALL ASSEMBLY BOLTS SHALL BE S.A.E. GRADE 5 GALVANIZED STEEL, WITH 1000 hrs, 5% RUST CORROSION RESISTANCE, PER ASTM B-117.
6. STEEL WINDBARS SHALL BE A.S.T.M/ A-36 DESIGNATION, SHOP PRIMED PRIOR TO INSTALLATION. PAINT TO CONFORM TO FEDERAL SPECIFICATIONS CORRESPONDING TO RED GRAY PAINT OR EQUAL.
- 7.1 HOOD SHALL BE BE 24 GAGE A.S.T.M. A-653 DESIGNATION, GRADE 33, G-90 GALVANIZED STEEL OR 22 GAGE A.S.T.M. A-653 DESIGNATION, GRADE 33, G-60 GALVANIZED STEEL.
- 7.2 BACKER SLAT SHALL BE 24 GAGE A.S.T.M. A-653 DESIGNATION, GRADE 33, G-90 GALVANIZED STEEL OR 22 OR 20 GAGE A.S.T.M. A-653 DESIGNATION, GRADE 33, G-60 GALVANIZED STEEL.
8. ALL RIVETS SHALL BE A.I.S.I. $\frac{1}{4}$ " $\varnothing$ W/ $\frac{1}{2}$ " FLANGE $\varnothing$ STAINLESS STEEL MODEL # STS84D DOMED HD, W/ 1460 Lb SHEAR STRENGTH & 1800 TENSILE STRENGTH.
9. CONCRETE ANCHORS TO BE AS MANUFACTURED BY DEWALT AND RED HEAD AND SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER. ANCHOR FOR STEEL SHALL BE AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS. ANCHORS TO COMPLY WITH SECTION 1711 OF THE FLORIDA BUILDING CODE, SEE SHEET 7 FOR LIMITATIONS
10. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY'S AWS D1.1 REGULATIONS. USE A.W.S. AS.1 OR A5.5 E60XX ELECTRODES MIN. $\frac{3}{16}$ " FILLET SIZE.
11. INSULATION MATERIAL SHALL BE RMAX FOIL FACED RIGID POLYISOCYANURATE FOAM SHEATHING INSULATION, MANUFACTURED BY Rmax Operating, LLC W/ MIAMI DADE COUNTY OR STATE OF FLORIDA APPROVAL.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE EXISTING STRUCTURE IS DESIGNED TO SUPPORT V_x AND V_y FORCES AT BOTH JAMBS. SEE SCHEDULE ON SHEET 7 OF 7, FOR V_x & V_y VALUES.
13. ROLL-UP MECHANISM IS NOT PART OF THIS APPROVAL.
14. (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) THE CONTRACTOR IS 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 WHO 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 THE 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 WHO PREPARED IT.
15. ROLL-UP DOOR MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE DOOR. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.5.2.1.1 OF THE FLORIDA BUILDING CODE.

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

18'-1" MAXIMUM WIDE, 20 GAGE SLAT
ROLL-UP DOOR L.M.I

METRO DOOR LLC.
821 INDUSTRIAL DRIVE
LEWISBURG, TN 37091

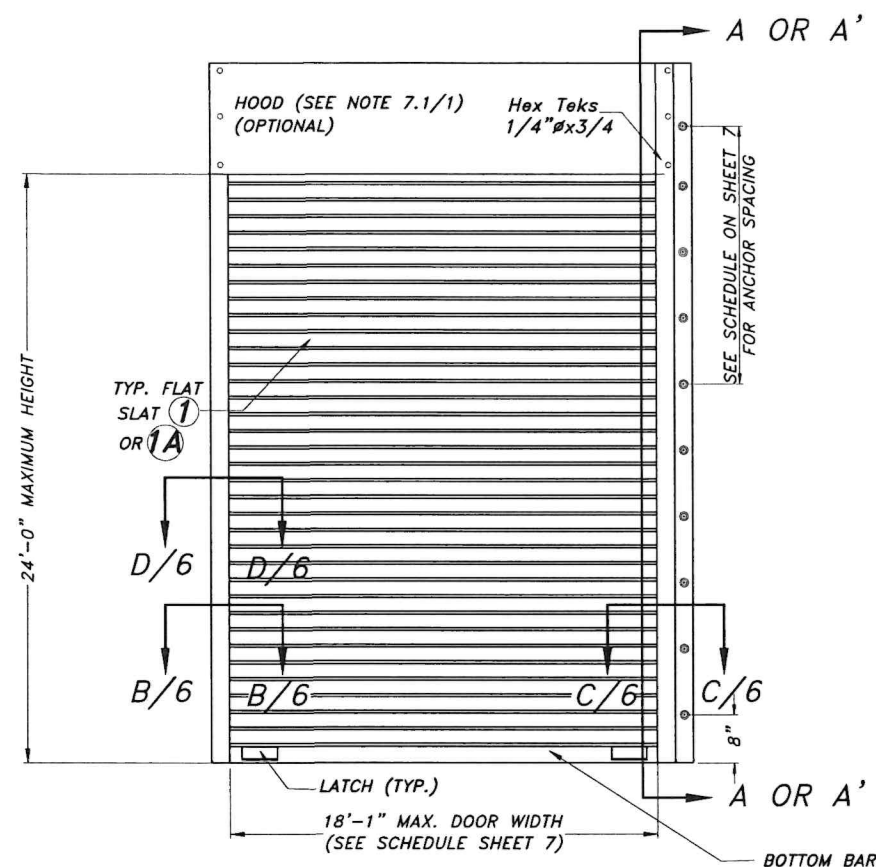
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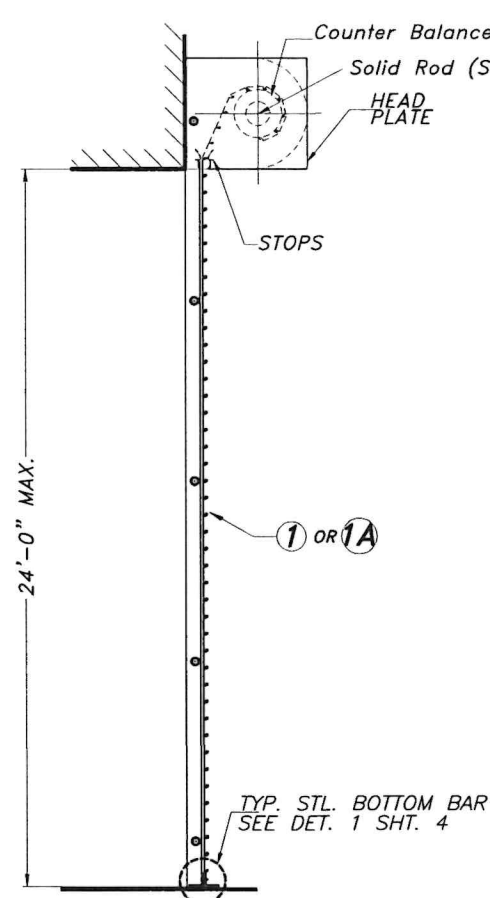
26-095
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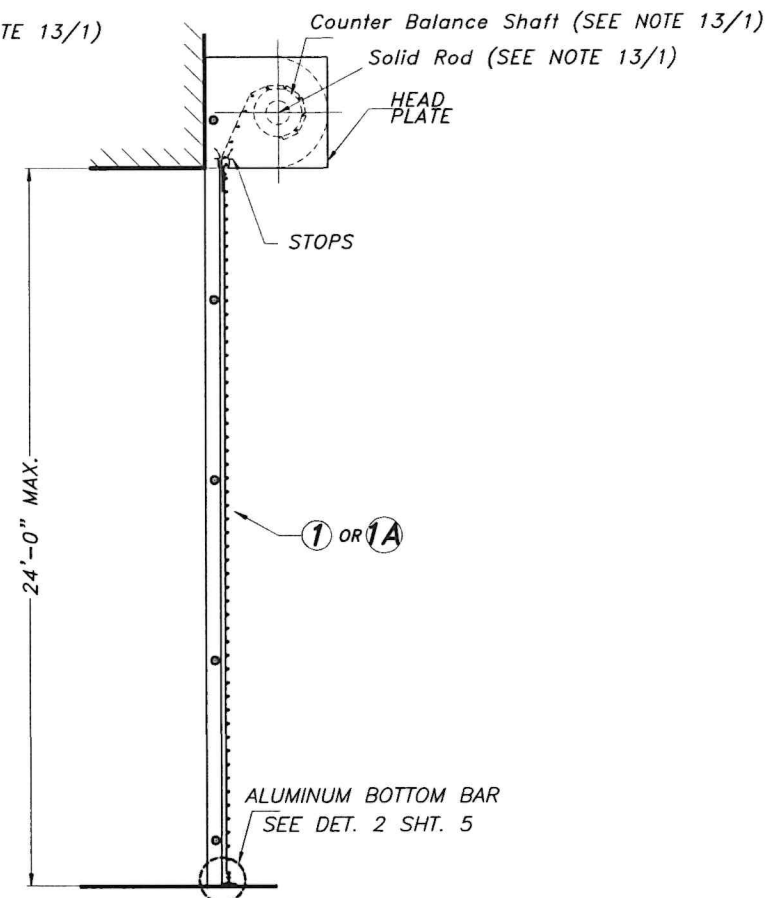
SHEET 1 OF 7



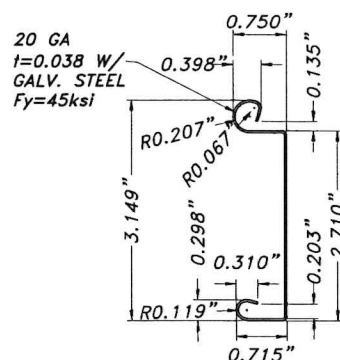
TYPICAL DOOR ELEVATION
N. T. S.



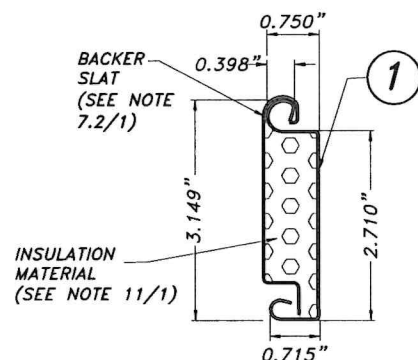
SECTION A-A
N. T. S.



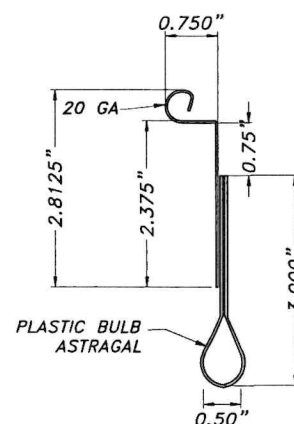
SECTION A'-A'
N. T. S.



1 FLAT SLAT
Fy=45ksi
ASTM A-653 GRADE 45
G-60 GALV. STL



1A INSULATED SLAT
Fy=45ksi
ASTM A-653 GRADE 45
G-60 GALV. STL



2 STL BOTTOM SLAT FOR SECTION A-A
Fy=45ksi
ASTM A-653 GRADE 45
G-60 GALV. STL

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STATE OF
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PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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

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18'-1" MAXIMUM WIDE, 20 GAGE SLAT
ROLL-UP DOOR L.M.I

METRO DOOR LLC.
821 INDUSTRIAL DRIVE
LEWISBURG, TN 37091

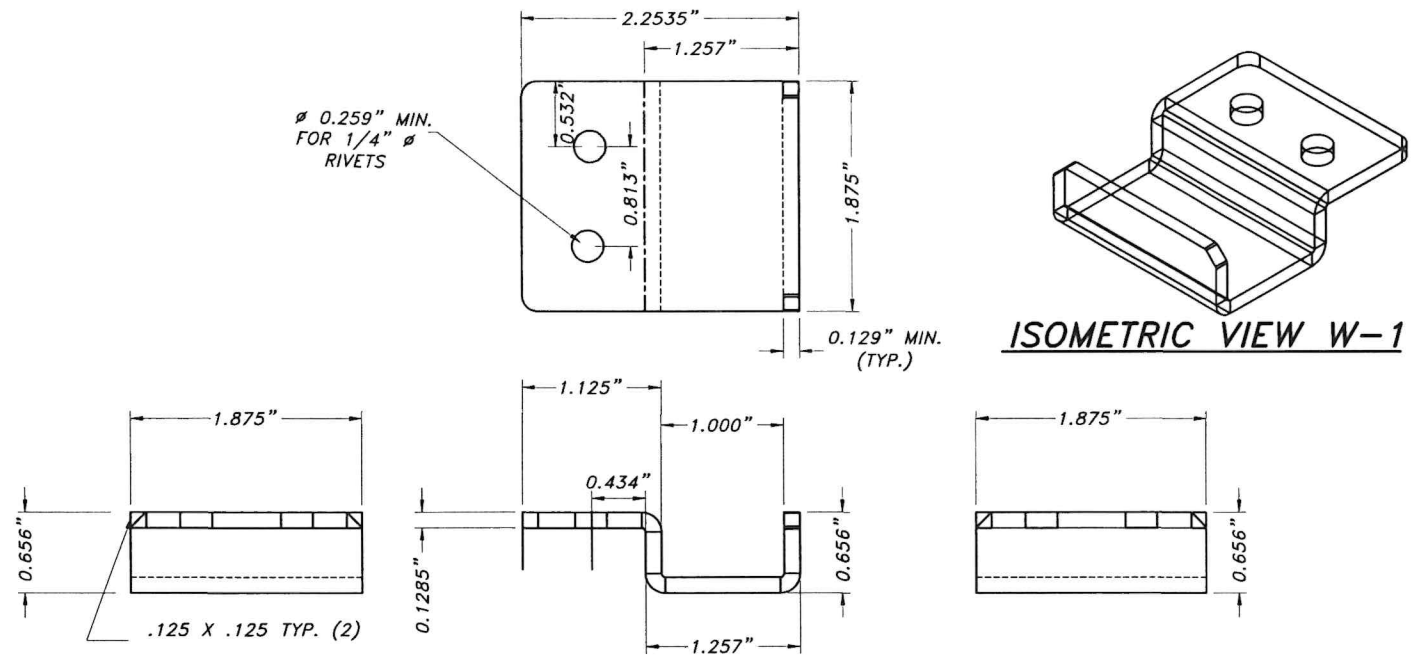
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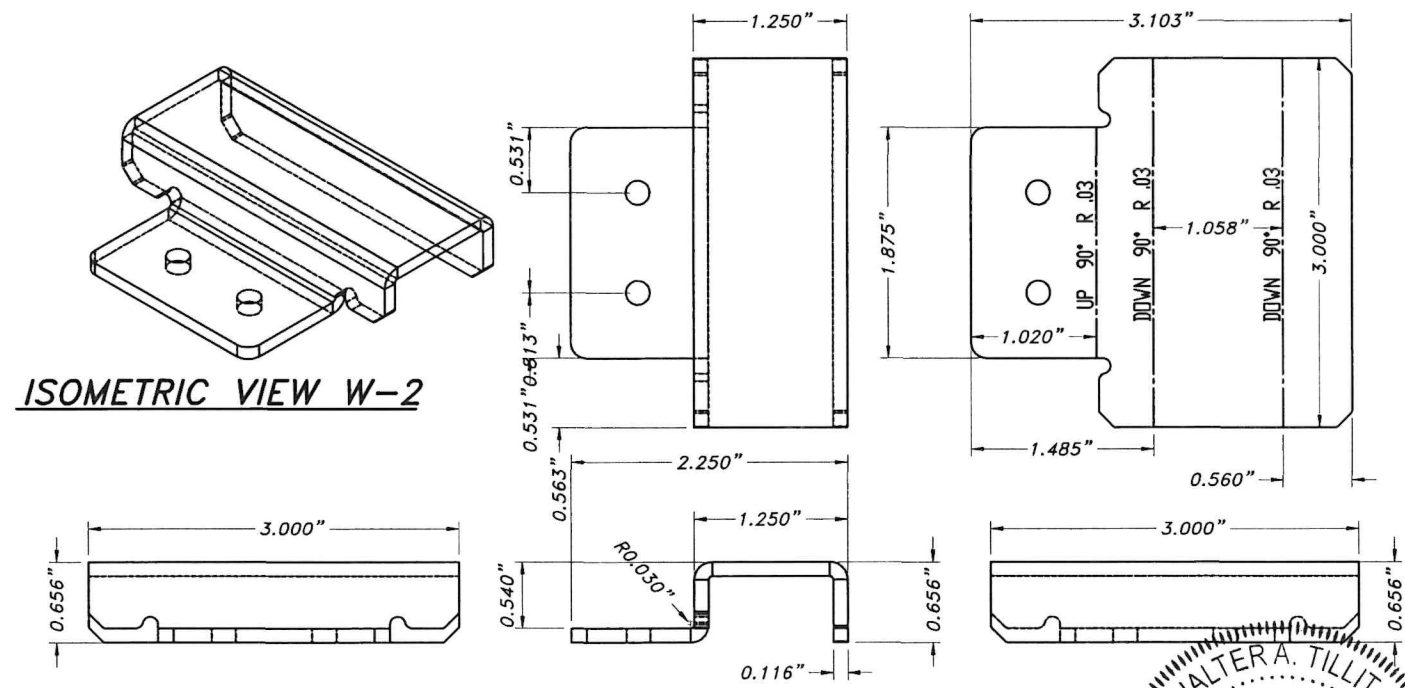
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SHEET 2 OF 7



WIND LOCK W-1

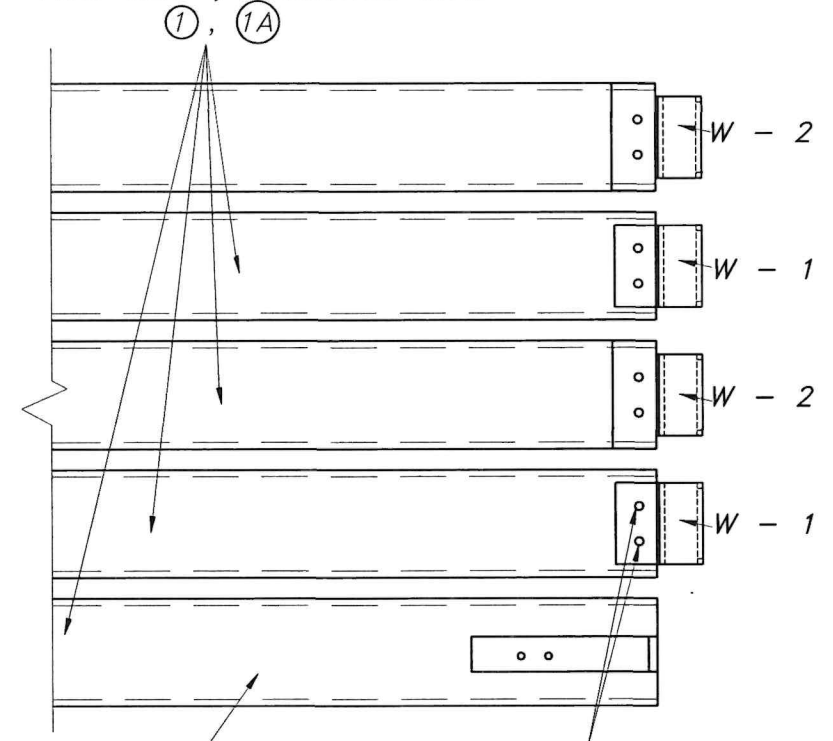
Fy= 60ksi
Fu= 80ksi
ASTM A-1011 GRADE 60 W/ ASTM A-123
G-60 GALVANIZED STEEL



WIND LOCK W-2

Fy= 60ksi
Fu= 80ksi
ASTM A-1011 GRADE 60 W/ ASTM A-123
G-60 GALVANIZED STEEL

FLAT SLAT , INSULATED SLAT



BOTTOM SLAT W/LATCH
(SEE SHEETS 4 & 5)

S.S. RIVETS Ø 1/4" (STS84D)
(2) EA. W-1 OR EA. W-2

ELEVATION DETAIL FOR SLAT W/ W-1 & W-2
N.T.S.

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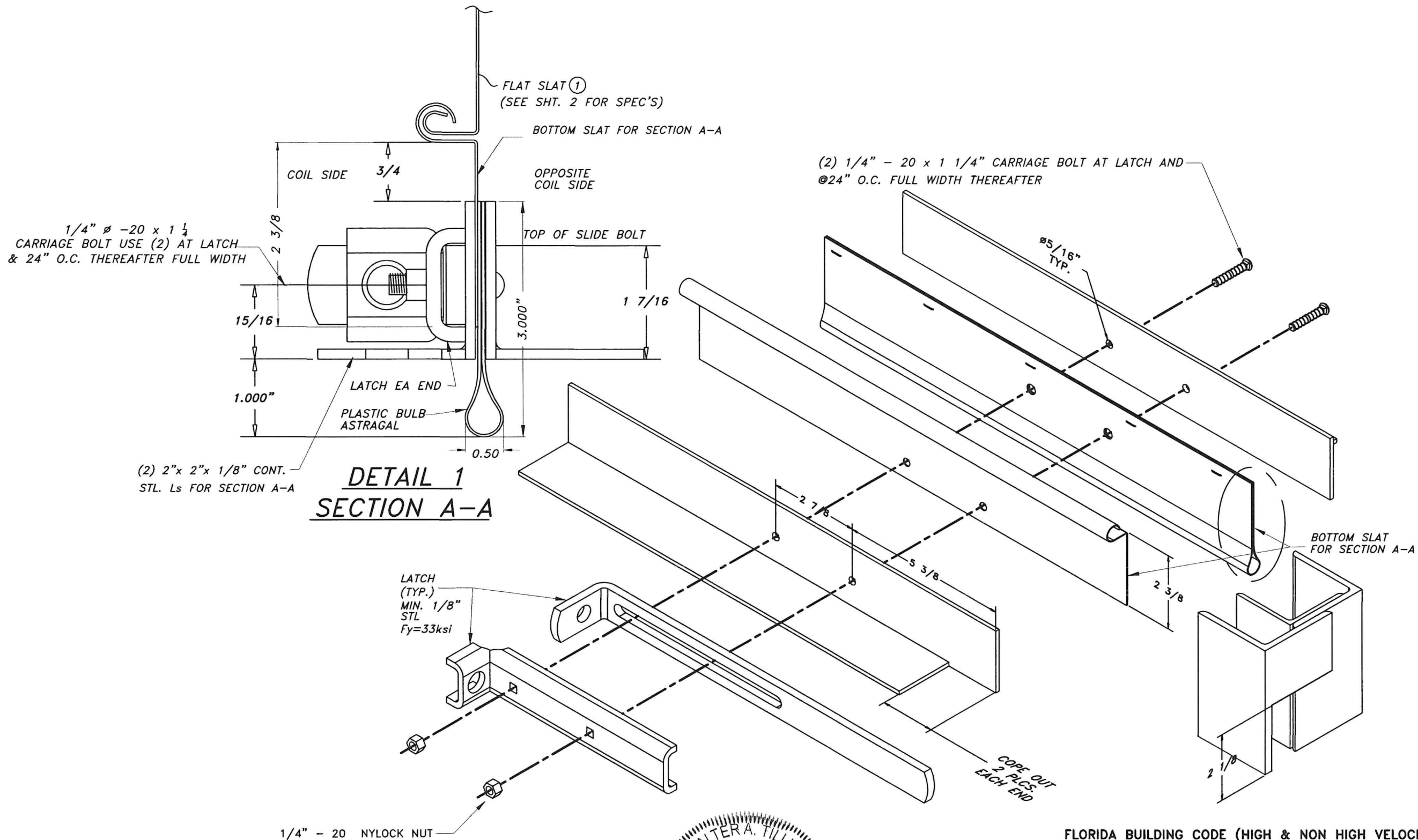
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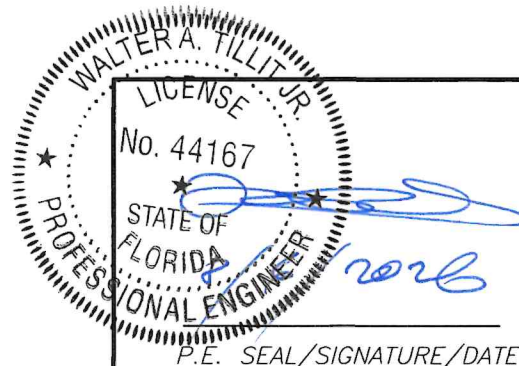
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SHEET 3 OF 7



**ASSEMBLY DETAIL OF BOTTOM SLAT
W/ STEEL ANGLES & W/ LATCH AT
SECTION A-A**

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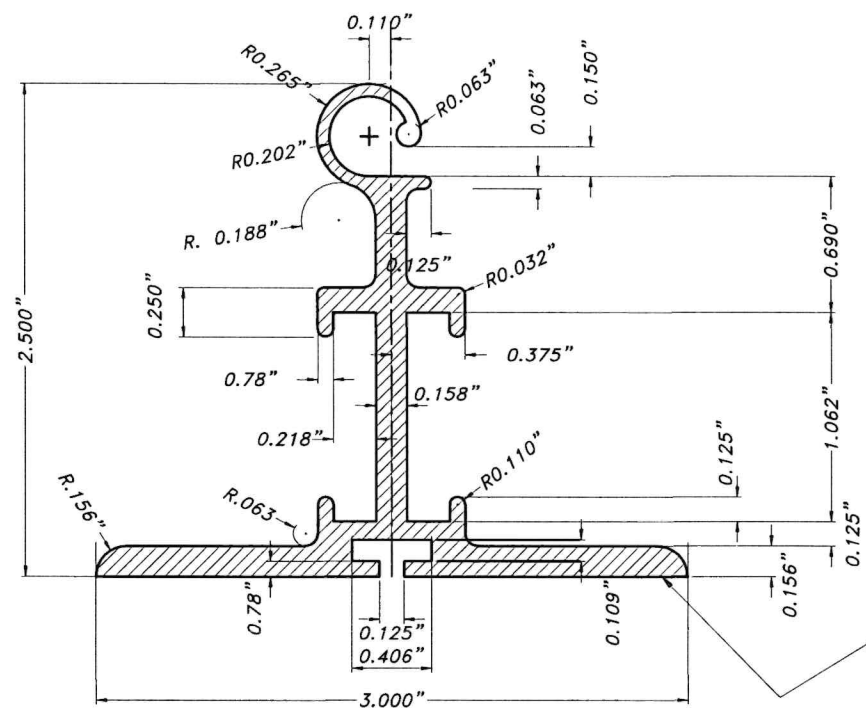
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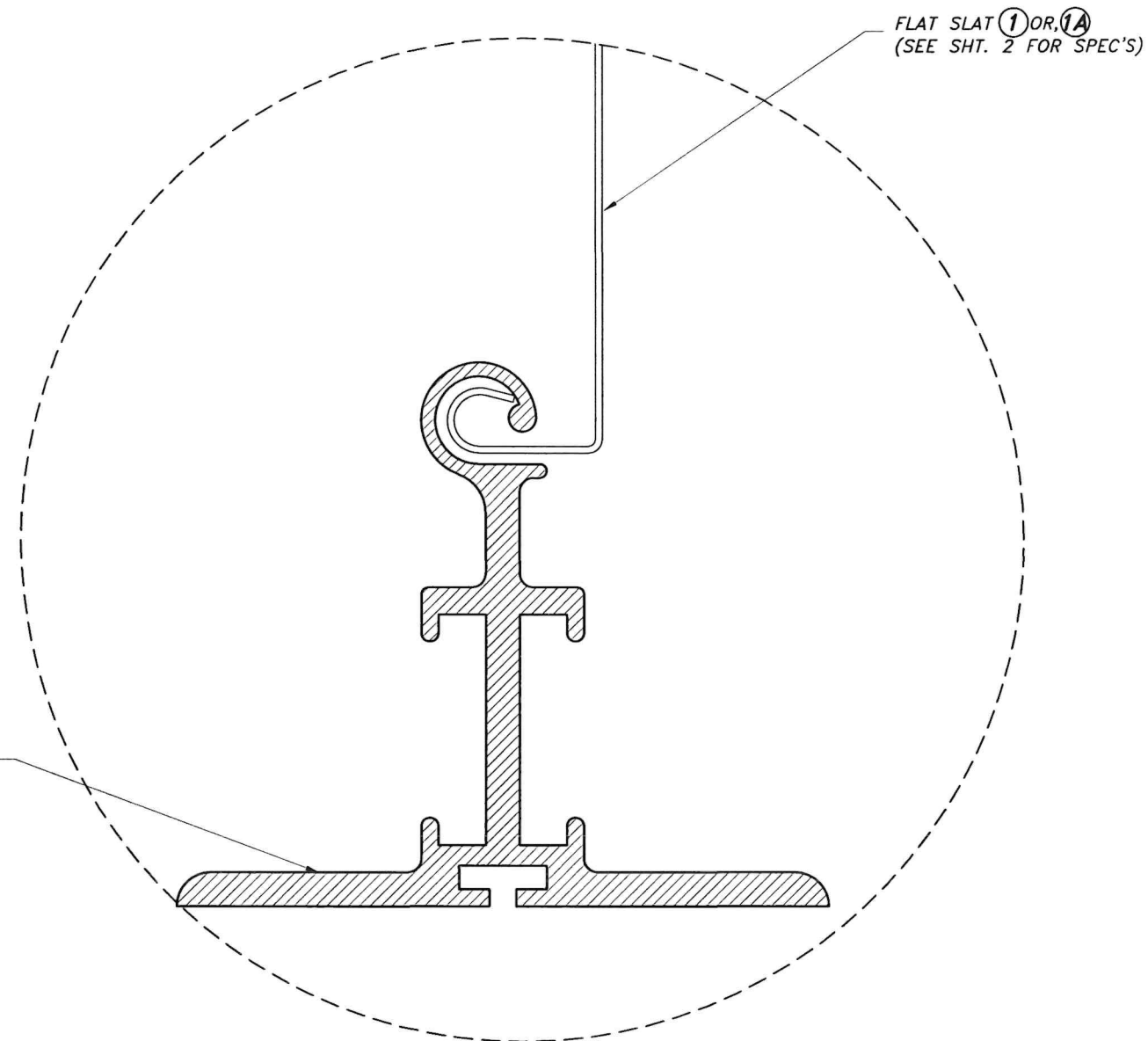
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SHEET 4 OF 7

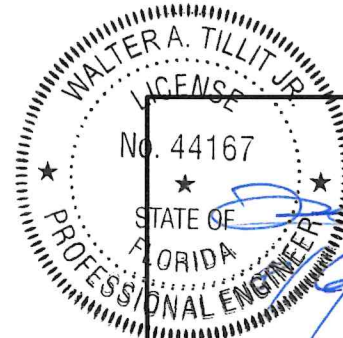


ALUMINUM BAR



ASSEMBLY DETAIL AT BOTTOM W/ ALUMINUM BAR
SECTION A'-A'

N. T. S.



P.E. SEAL/SIGNATURE/DATE

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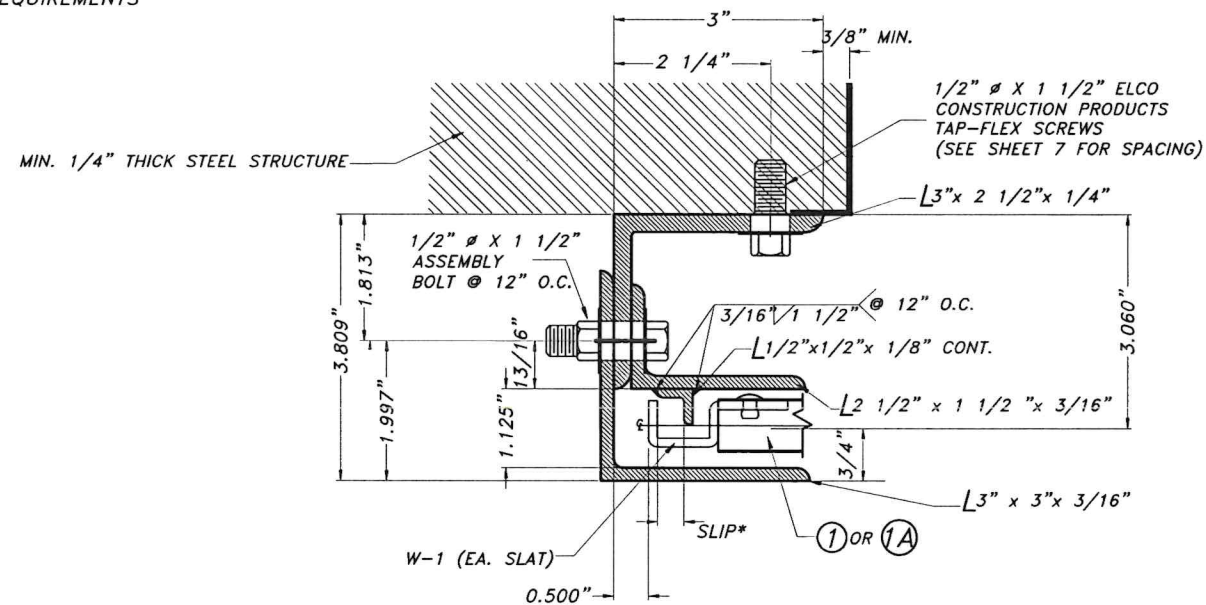
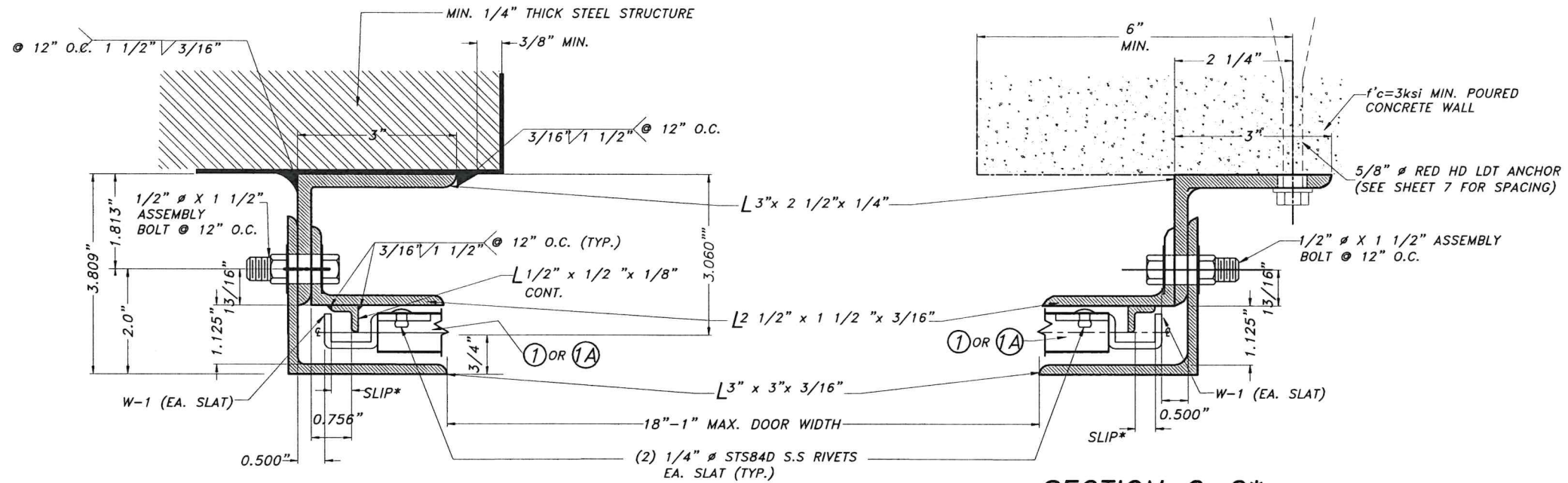
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SHEET 5 OF 7



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SHEET 6 OF 7

Vx & Vy REACTIONS & ANCHOR SPACING SCHEDULE**

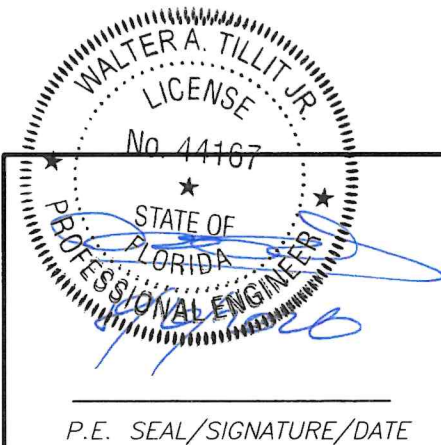
MAXIMUM DESIGN LOAD (psf)	DOOR WIDTH (ft-in)	SLIP (in)	Vx (lb/ft)	Vy (lb/ft)	MAXIMUM ANCHOR SPACING		
					ANCHOR TYPE 1 *		ANCHOR TYPE 2 *
					f'c= 3ksi Min.	f'c= 4ksi Min.	$\frac{1}{4}$ Min. f'y=36ksi STEEL
+50.0 , -50.0	14'-0"	3/8"	1427	350	10"	10"	10"
	16'-0"	1/2 "	1595	400	10"	10"	10"
	18'-1"	0.634"	1765	453	10"	10"	10"
+55.0 , -55.0	14'-0"	3/8"	1585	385	10"	10"	10"
	16'-0"	1/2 "	1762	440	10"	10"	10"
	18'-1"	0.634"	1944	498	9 1/2"	10"	10"
+60.0 , -60.0	14'-0"	3/8"	1741	420	10"	10"	10"
	16'-0"	1/2 "	1928	480	9 3/4"	10"	10"
	18'-1"	0.634"	2122	543	8 3/4"	10"	10"
+70.0 , -70.0	14'-0"	3/8"	2048	490	9"	10"	10"
	16'-0"	1/2 "	2255	560	8 1/4"	10"	10"
	18'-1"	0.634"	2472	634	7 1/2"	9"	9 1/4"

ANCHOR TYPE 1: $\frac{5}{8}$ " $\varnothing$ RED HEAD LDT ANCHORS W/ 4 $\frac{1}{2}$ " MIN. EMBEDMENT & 6" MIN. EDGE DISTANCE INTO f'c= 3ksi MIN. POURED CONCRETE.

ANCHOR TYPE 2: 1/2" $\varnothing$ x 1 $\frac{1}{2}$ " MIN. ELCO CONSTRUCTION PRODUCT TAP-FLEX THREADING SCREW INTO $\frac{1}{4}$ " MIN. ASTM A-36 STEEL STRUCTURE.

** NOTES FOR LIMITATIONS/ REQUIREMENTS FOR USE OF ABOVE ANCHORS VERSUS BUILDING CONDITIONS:

- (1) FOR DOOR INSTALLATIONS WHERE ANCHORS/DOOR HOOD FACE THE EXTERIOR OF THE BUILDING, INSTALLATION IS NOT PERMITTED WHEN BUILDING IS LOCATED WITHIN 300 ft OF THE COASTAL SHORELINE.
- (2) FOR DOOR INSTALLATIONS WHERE ANCHORS/DOOR HOOD FACE THE EXTERIOR OF THE BUILDING, USE TYPE 1 OR 2 ANCHORS WHEN THE BUILDING IS LOCATED MORE THAN 300 ft OF THE COASTAL SHORELINE.
- (3) FOR DOOR INSTALLATIONS WHERE ANCHORS/DOOR HOOD FACE THE INTERIOR OF THE BUILDING, AND THE BUILDING IS UNCONDITIONED (WITH OR WITHOUT VENTING), USE TYPE 1 OR 2 ANCHORS REGARDLESS OF WHERE THE BUILDING IS LOCATED.
- (4) FOR DOOR INSTALLATIONS WHERE ANCHORS/DOOR HOOD FACE THE INTERIOR OF THE BUILDING, AND THE BUILDING IS AIR CONDITIONED: INSTALLATION IS NOT PERMITTED WHEN THE BUILDING IS LOCATED WITHIN 300 ft OF THE COASTAL SHORELINE, AND USE TYPE 1 OR 2 ANCHORS IF THE BUILDING IS LOCATED MORE THAN 300 ft OF THE COASTAL SHORELINE.



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METRO DOOR LLC. 821 INDUSTRIAL DRIVE LEWISBURG, TN 37091						6/29/2026 DATE
						26-095 DRAWING No
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