

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 FOR EACH INSTALLATION 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 BELOW AND ON SHEET 5.

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 QAI LABORATORIES, LABORATORY REPORT # QA-2259A PER TAS-201, TAS 202 & TAS-203 PROTOCOLS.

MAX. A.S.D. DESIGN PRESSURE RATING: +120.0, -120.0 PSF

IMPACT RESISTANCE: 9 LB 2x4 80 FT/SEC (TYPE E MISSILE)

2. SOLID FLAT SLAT SHALL BE A.S.T.M. A-653, MIN. 18 GAGE (0.048") STRUCTURAL QUALITY STEEL WITH MIN $F_y= 45.0$ ksi AND G-90 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 TO 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 GALVANIZED STEEL WITH 1000 hrs CORROSION RESISTANCE PER ASTM B-117.
6. CLOSURE FOR INSULATED SLAT TO BE 24 GAGE A.S.T.M. A-653 DESIGNATION, GRADE 33, G-90 GALVANIZED STEEL.
7. ALL RIVETS SHALL BE A.I.S.I. 1/4" $\varnothing$ W/ 1/2" FLANGE ZINC PLATED A.I.S.I 1035 STEEL WITH 1000 hrs CORROSION RESISTANCE PER ASTM B-117, OR 304 SERIES STAINLESS STEEL WITH MIN. $F_y= 37$ Ksi.
8. CONCRETE ANCHORS SHALL BE AS MANUFACTURED BY DEWALT INC, OR HILTI INC. AND SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER, AND SHALL COMPLY WITH SECTIONS 2411.3.3.4 & 1711 OF THE FLORIDA BUILDING CODE, SEE SHEET 5 FOR LIMITATIONS.
9. ALL WELDING TO CONFORM TO AMERICAN WELDING SOCIETY'S AWS D1.1 REGULATIONS. USE A.W.S. AS.1 OR A5.5 E70XX ELECTRODES.
10. INSULATION MATERIAL SHALL BE EPS EXPANDED POLYSTYRENE, MANUFACTURED BY DYPLAST PRODUCTS WITH MIAMI DADE COUNTY, OR STATE OF FLORIDA OR EQUAL APPROVAL.
11. 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 5 FOR V_x & V_y VALUES.
12. ROLL-UP MECHANISM AND HOOD ASSEMBLY NOT PART OF THIS APPROVAL.
13. (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.
14. 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

WALTER A. HILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/2026
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & 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

20'-6 1/2" MAXIMUM WIDE, MIN. 18 GAGE
SLAT ROLL-UP DOOR (L.M.I, 80 Ft/Sec.)

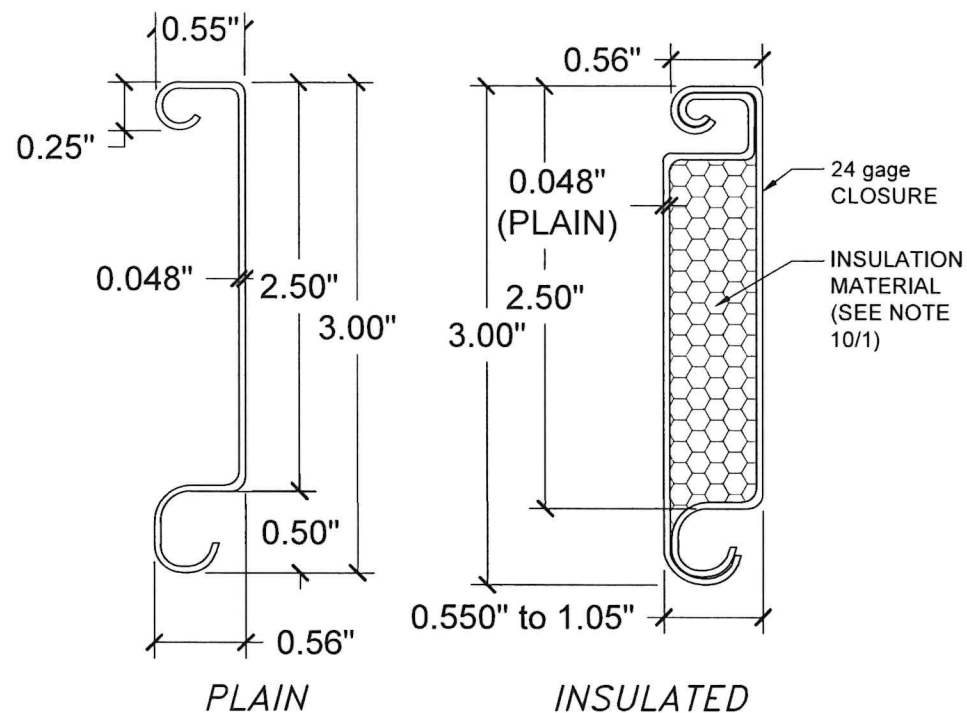
BEST ROLLING DOORS Inc.
9780 NW 79th AVE.
HIALEAH GARDENS, FL 33016

W.H.
DRAWN BY:

07/28/2026
DATE

26-238
DRAWING No

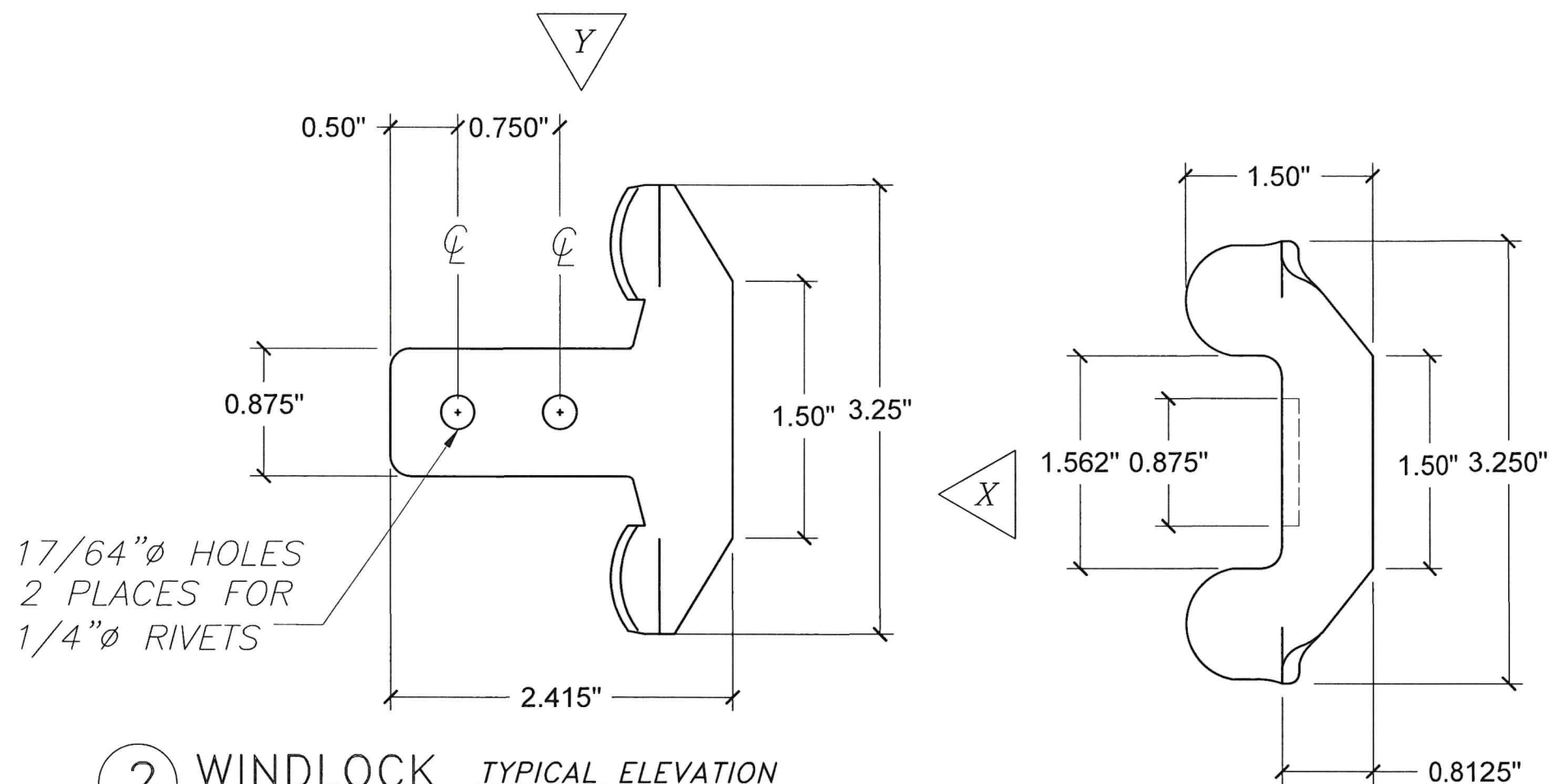
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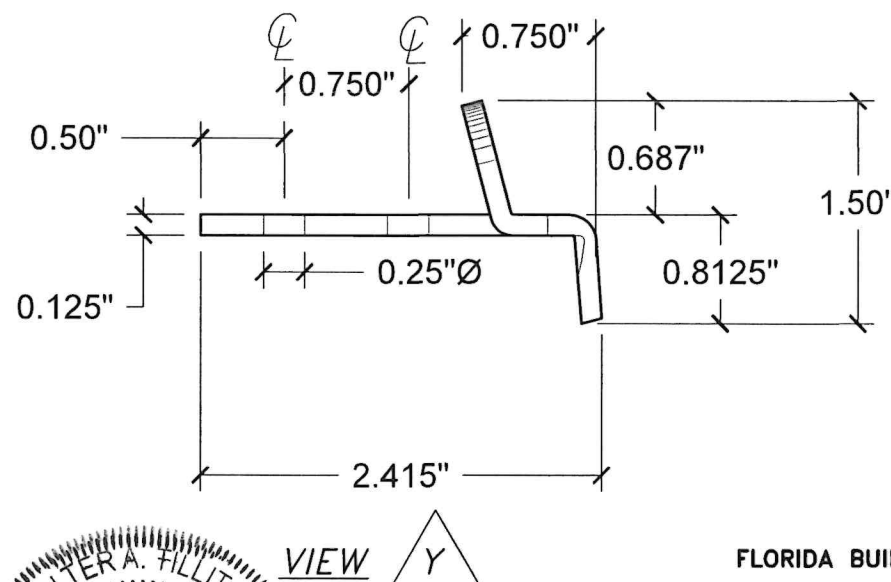
① SOLID FLAT SLAT

COMPONENTS

N.T.S.

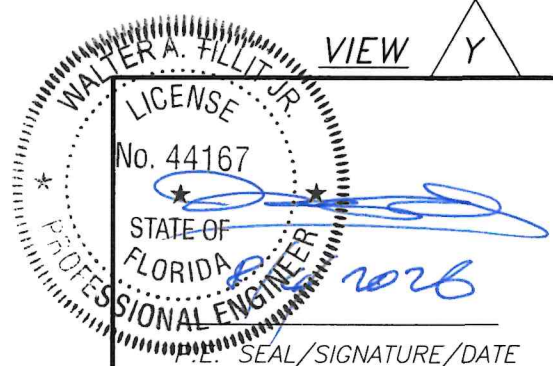


② WINDLOCK TYPICAL ELEVATION



VIEW X

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



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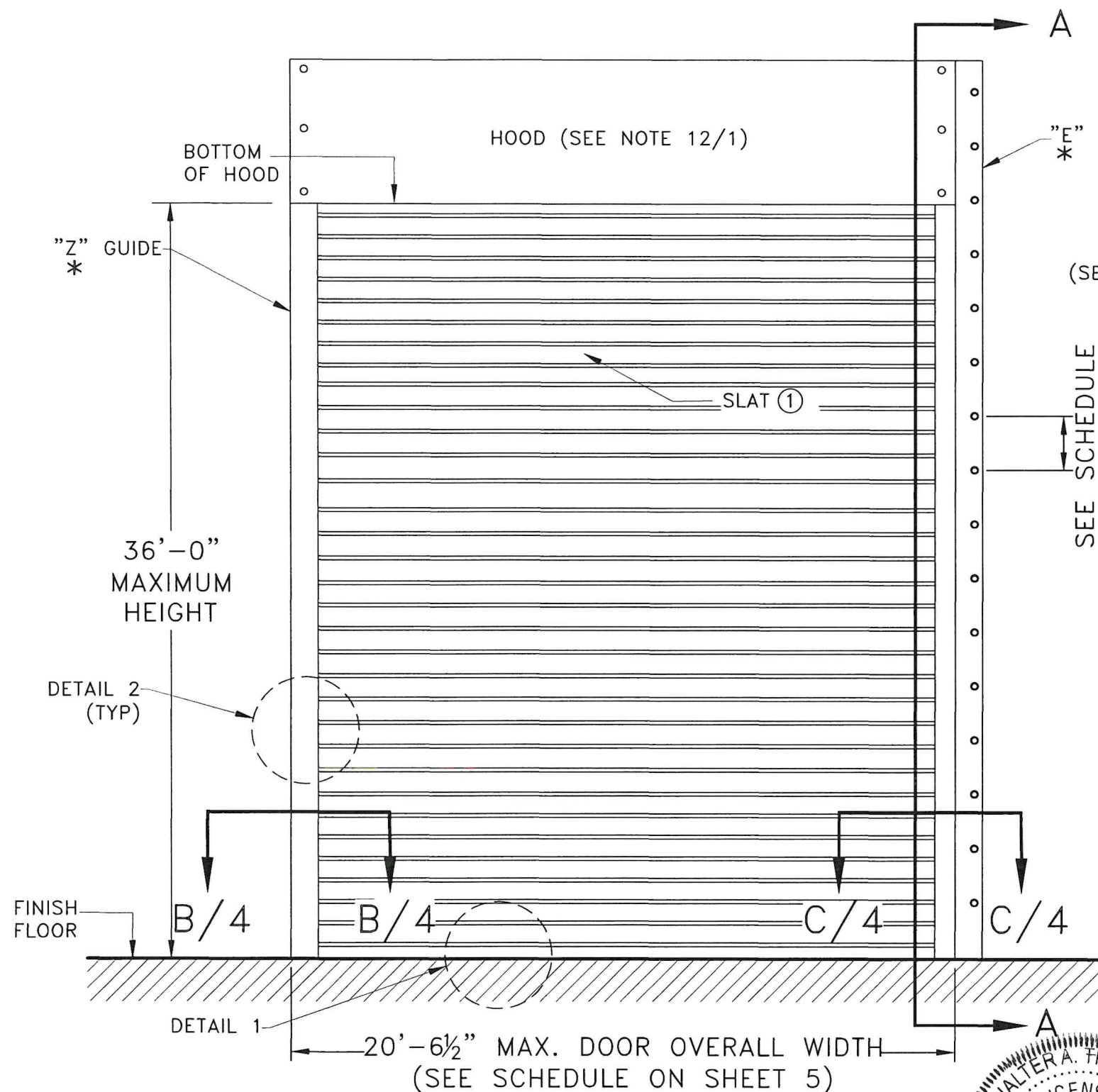
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SHEET 2 OF 5



TYPICAL DOOR ELEVATION
N.T.S.

* "E" & "Z" GUIDES MAY BE USED AS NEEDED ON A GIVEN INSTALLATION.

"E" GUIDE *

EXISTING STRUCTURE REQUIRED
(SEE SECTIONS B/4 & C/4)

SEE SCHEDULE ON SHEET 5 FOR ANCHOR OR WELDING SPACING

DETAIL 2 (TYP EA END OF SLAT 1)

DETAIL 1

SECTION A-A
N.T.S.

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

HOOD
(SEE NOTE 12/1)

EXISTING SLAB/FLOOR SURFACE (BY OTHERS)

1 TYP. MIN. BOTTOM FLAT SLAT
WATER STOP (BY OTHERS)

DETAIL 1 (SECTION)
N.T.S.

1 FLAT SLAT
2 EVERY OTHER SLAT, INCLUDING BOTTOM SLAT
CHANNEL GUIDE AT "E" OR "Z" ASSEMBLY
(2) 1/4" Ø RIVETS (TYP.)

DETAIL 2 (ELEVATION)
N.T.S.

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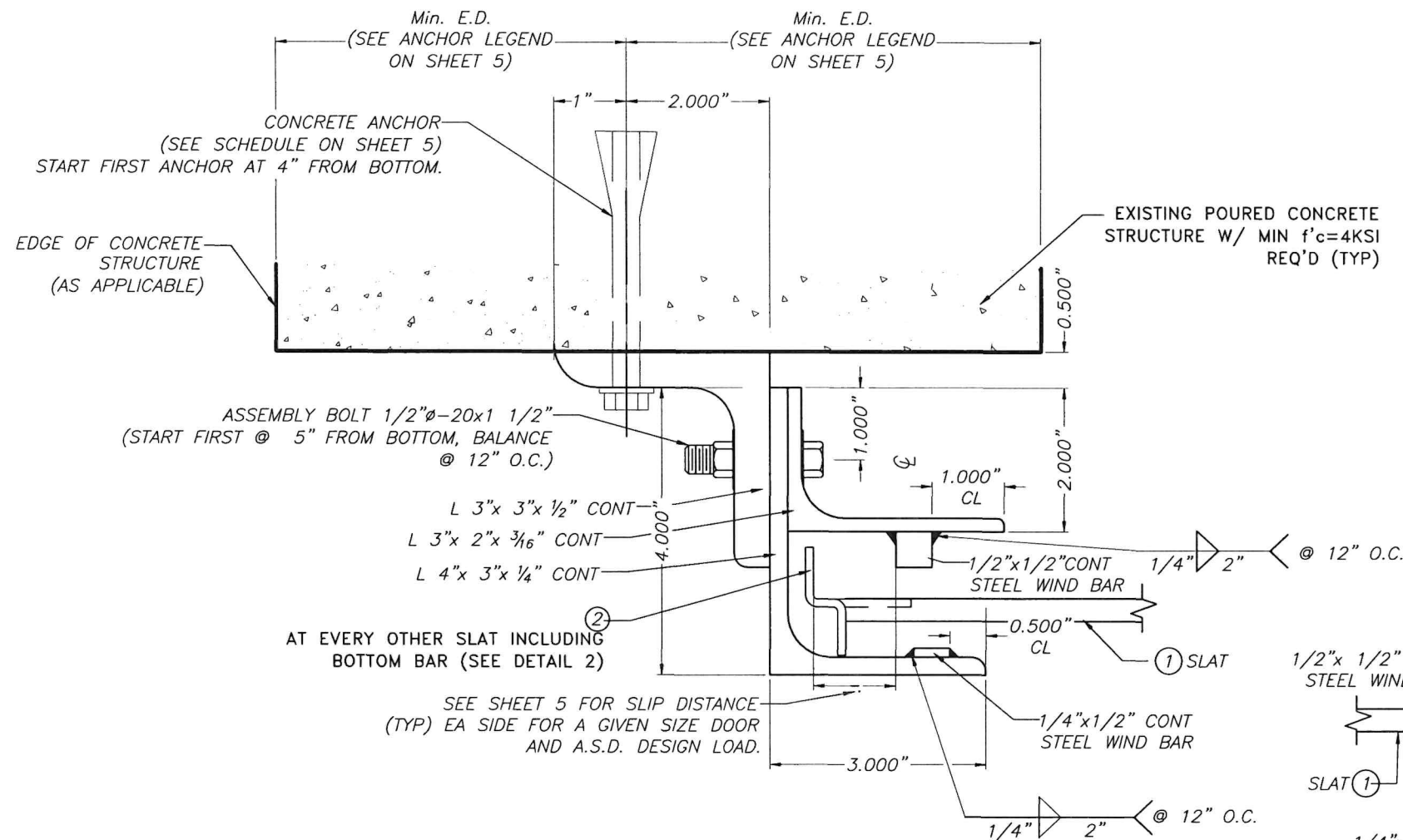
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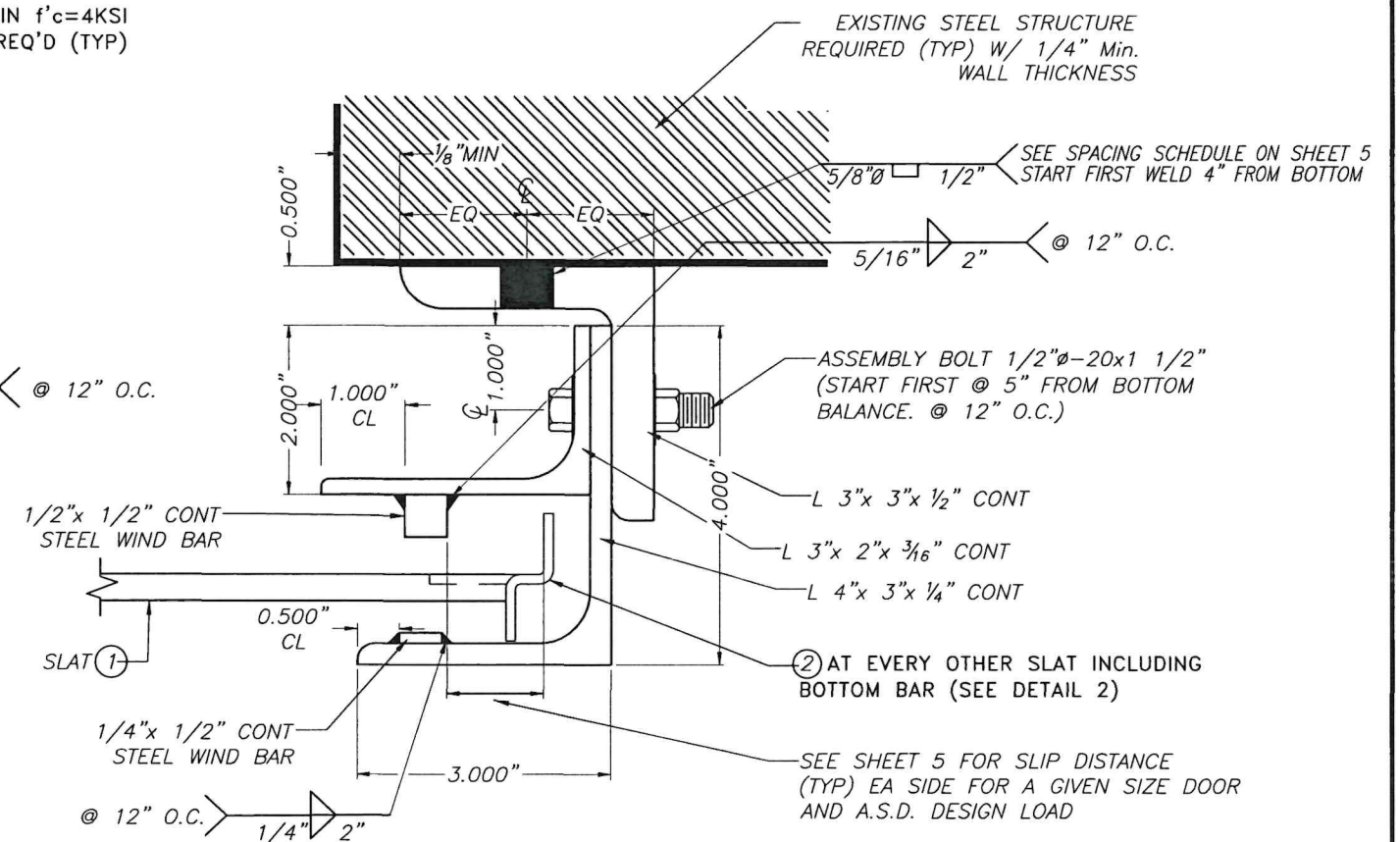
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SHEET 3 OF 5



SECTION B-B ("Z" GUIDE TO CONCRETE)
SCALE N.T.S.



SECTION C-C ("E" GUIDE TO STEEL)
SCALE N.T.S.

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SHEET 4 OF 5

Vx & Vy REACTIONS, MAX ANCHOR & WELDING SCHEDULE

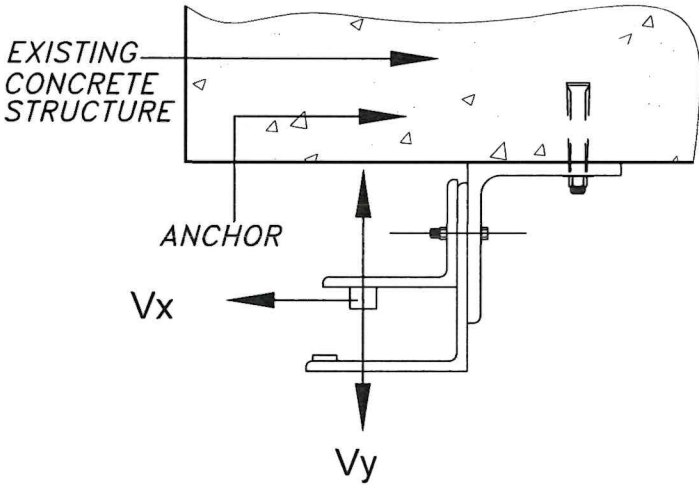
MAXIMUM A.S.D. DESIGN PRESSURE RATING (PSF)	DOOR WIDTH (Ft.)	SLIP (In)	Vx (Lb/Ft)	Vy (Lb/Ft)	MAX. ANCHOR SPACING TO POURED CONCRETE			MAX. ANCHOR SPACING TO ¼" MIN STEEL
					ANCHOR TYPE 1 *	ANCHOR TYPE 2 *	ANCHOR TYPE 3 *	5/8" Øx ½" PLUG WELDING
					f'c = 4 ksi Min.	f'c = 4 ksi Min.	f'c = 6 ksi Min.	
+95.0, -95.0 OR LESS	16'-0"	3/4"	2519	760	6" O.C.	8" O.C.	8" O.C.	8" O.C.
	18'-0"	1"	2695	855	6" O.C.	8" O.C.	8" O.C.	8" O.C.
	20'-6½"	1 1/2"	2773	974	6" O.C.	8" O.C.	8" O.C.	8" O.C.
>+95.0, -95.0 UP TO +120.0, -120.0	16'-0"	3/4"	3182	960	N/A	6" O.C.	6" O.C.	6" O.C.
	18'-0"	1"	3405	1080	N/A	6" O.C.	6" O.C.	6" O.C.
	20'-6½"	1 1/2"	3503	1230	N/A	6" O.C.	6" O.C.	6" O.C.

ANCHOR LEGEND

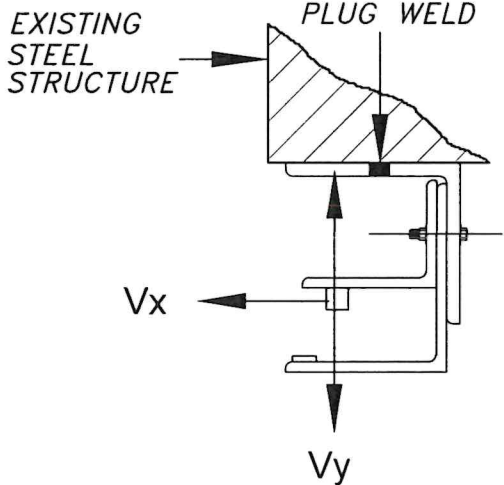
ANCHOR TYPE 1: - 5/8"Ø RED HEAD LDT ANCHOR W/ 4 ½" MIN. EMBEDMENT, 6 ¼" MIN. EDGE DISTANCE & 8" MIN. WALL THICKNESS, INTO f'c=4 ksi (MIN) EXISTING CONCRETE STRUCTURE.

ANCHOR TYPE 2: - 3/4"Ø RED HEAD LDT W/ 5 ½" MIN. EMBEDMENT, 7 ½" MIN. EDGE DISTANCE & 8" MIN. WALL THICKNESS, INTO f'c=4 ksi (MIN) EXISTING CONCRETE STRUCTURE.

ANCHOR TYPE 3: - 3/4"Ø HILTI INC 304 SERIES STAINLESS STEEL KWIK BOLT TZ2, W/ 5 ½" MIN. EMBEDMENT, 7" MIN. EDGE DISTANCE & 8" MIN. WALL THICKNESS, INTO f'c=6 ksi (MIN) EXISTING CONCRETE STRUCTURE.



LOAD DIAGRAM
@ "Z" GUIDE TO CONCRETE



LOAD DIAGRAM
@ "E" GUIDE TO STEEL

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

- (1) FOR DOORS INSTALLED WHERE ANCHORS/DOOR HOOD FACE THE EXTERIOR OF BUILDING, USE TYPE 3 ANCHORS WHEN BUILDING IS LOCATED WITHIN 300 ft OF THE COASTAL SHORELINE.
- (2) FOR DOORS INSTALLED WHERE ANCHORS/DOOR HOOD FACE THE EXTERIOR OF BUILDING, USE TYPE 1, 2 OR 3 ANCHORS WHEN BUILDING IS LOCATED GREATER THAN 300 ft OF THE COASTAL SHORELINE.
- (3) FOR DOORS INSTALLED WHERE ANCHORS/DOOR HOOD FACE THE INTERIOR OF BUILDING, AND BUILDING IS UNCONDITIONED WITH OR WITHOUT VENTING, USE TYPE 1, 2 OR 3 ANCHORS, INDEPENDENT OF WHERE BUILDING IS LOCATED.
- (4) FOR DOORS INSTALLED WHERE ANCHORS/DOOR HOOD FACE THE INTERIOR OF BUILDING, AND BUILDING IS AIR CONDITIONED, USE TYPE 3 ANCHORS IF BUILDING IS LOCATED WITHIN 300 ft OF THE COASTAL SHORELINE, AND USE TYPE 1, 2 OR 3 ANCHORS IF BUILDING IS LOCATED MORE THAN 300 ft OF THE COASTAL SHORELINE.



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SHEET 5 OF 5