

**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 **2023 (8th 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 JURISDICTION WHERE THIS PRODUCT WILL BE INSTALLED AND FOR A DIRECTIONALITY FACTOR  $K_d=0.85$ , USING **ASCE 7-22** TAKING INTO CONSIDERATION POSSIBLE PRESSURIZATION OF STRUCTURE AS WELL AS WATER INFILTRATION DUE TO PERFORATED SLATS INSTALLATION, AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED BELOW AND ON SHEET 5.

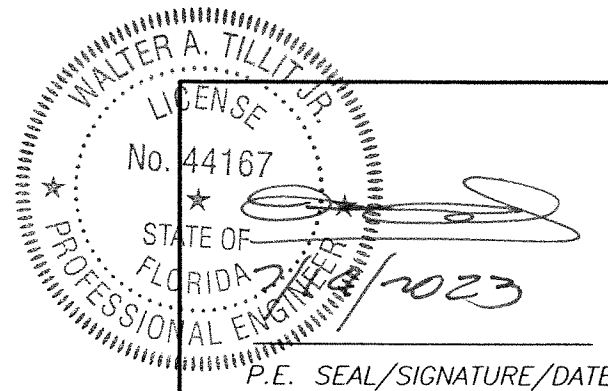
IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 1.

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 FTL, A QAI COMPANY LABORATORY REPORT # 12020 PER TAS-201, TAS 202 & TAS-203 PROTOCOLS.


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

2. SLAT TO BE A.S.T.M. A-653 GR 50, MIN. 24 GAGE (0.023") STRUCTURAL QUALITY STEEL WITH MIN  $F_y= 50.2$  ksi AND G-90 GALVANIZED PER A.S.T.M. A-653.
3. ALL STEEL ANGLES TO 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 TO 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 TO BE S.A.E. GRADE 2 CADMIUM PLATED OR GALVANIZED STEEL.
6. CHANNEL GUIDE TO BE A.S.T.M/A-653 GR 30 STRUCTURAL QUALITY STEEL WITH MIN.  $F_y=30.0$  Ksi. AND G-60 GALVANIZED PER ASTM A-653.
7. CLOSURE SLAT TO BE 24 GAGE A.S.T.M. A-653 DESIGNATION, GRADE 33, G-90 GALVANIZED STEEL.
8. ALL RIVETS TO BE A.I.S.I. 1/4"  $\varnothing$  W/ 1/2" FLANGE A.I.S.I 1035 STEEL, CADMIUM PLATED, ZINC PLATED OR STAINLESS STEEL WITH MIN.  $F_y= 37$ Ksi.
9. CONCRETE ANCHORS TO BE AS MANUFACTURED BY HILTI INC. AND SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.
10. ALL WELDING TO CONFORM TO AMERICAN WELDING SOCIETY'S AWS D1.1 REGULATIONS. USE A.W.S. AS.1 OR A5.5 E70XX ELECTRODES.
11. INSULATION MATERIAL SHALL BE EPS EXPANDED POLYSTYRENE, MANUFACTURED BY DYPLAST PRODUCTS W/ MIAMI DADE COUNTY 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 5 FOR  $V_x$  &  $V_y$  VALUES.
13. ROLL-UP MECHANISM AND HOOD ASSEMBLY 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) 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.
15. ROLL-UP DOOR MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT 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. TILLIT JR.  
 LICENSE No. 44167  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 P.E. SEAL/SIGNATURE/DATE

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

©2023 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

**30'-11" MAXIMUM WIDE, MIN. 24 GAGE SLAT ROLL-UP DOOR (L.M.I, 80 Ft/Sec.)**

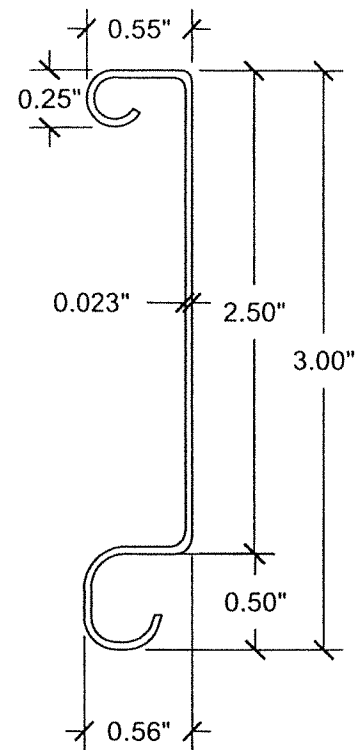
**BEST ROLLING DOORS Inc.**  
 9780 NW 79th AVE.  
 HIALEAH GARDENS, FL 33016

Y.M.  
DRAWN BY:

7/14/2023  
DATE

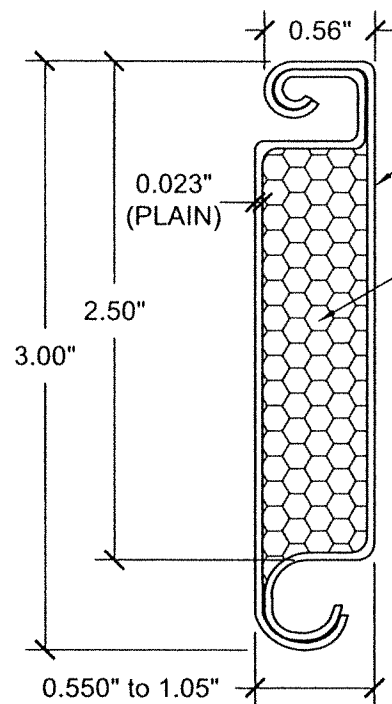
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DRAWING No

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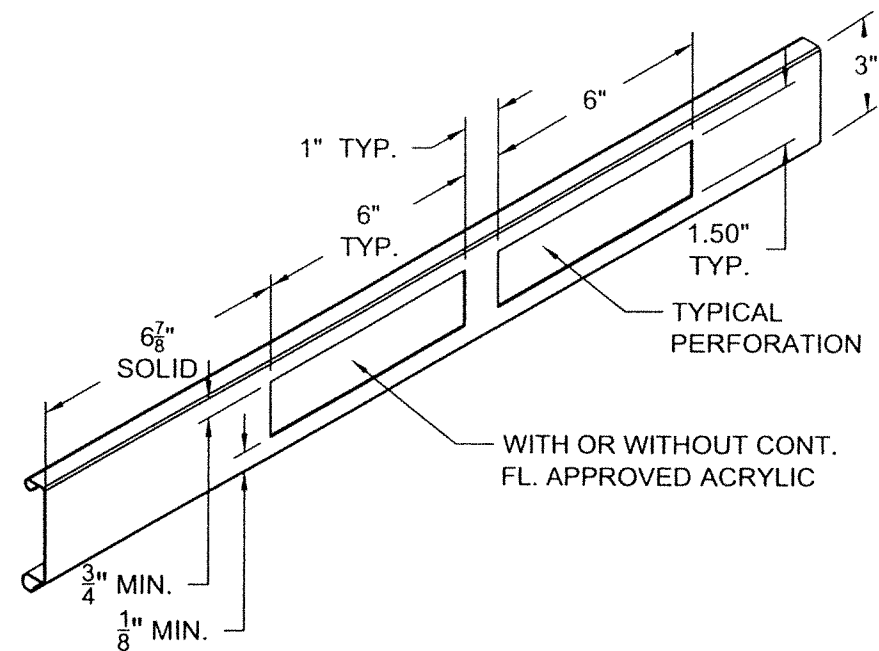
PLAIN

1 SOLID FLAT SLAT  
(Model S10-7070)

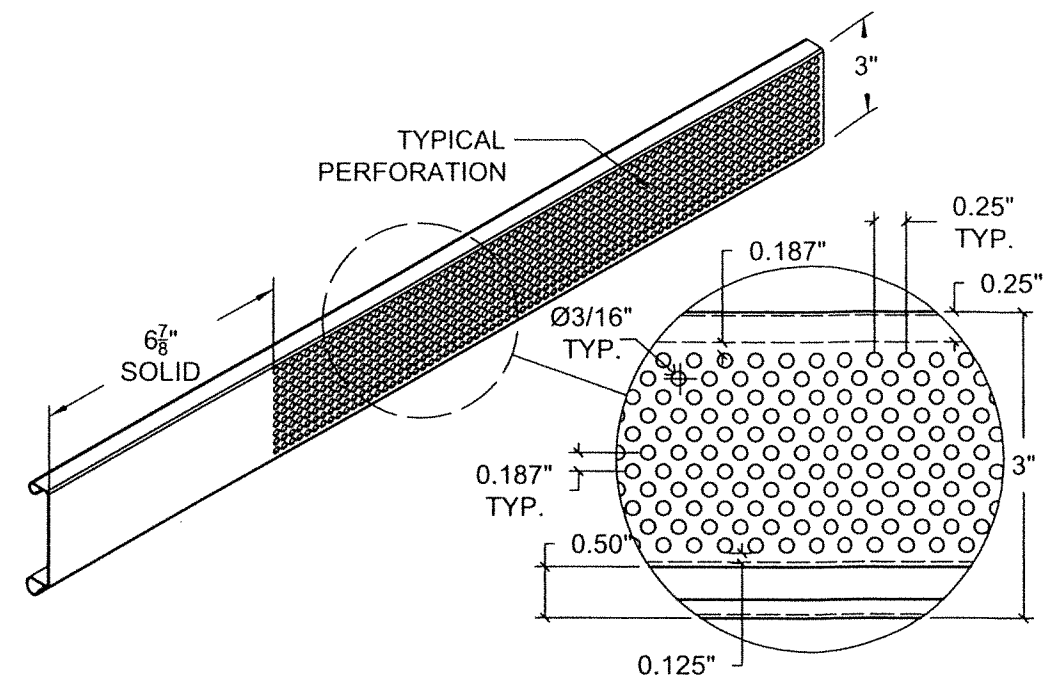


INSULATED

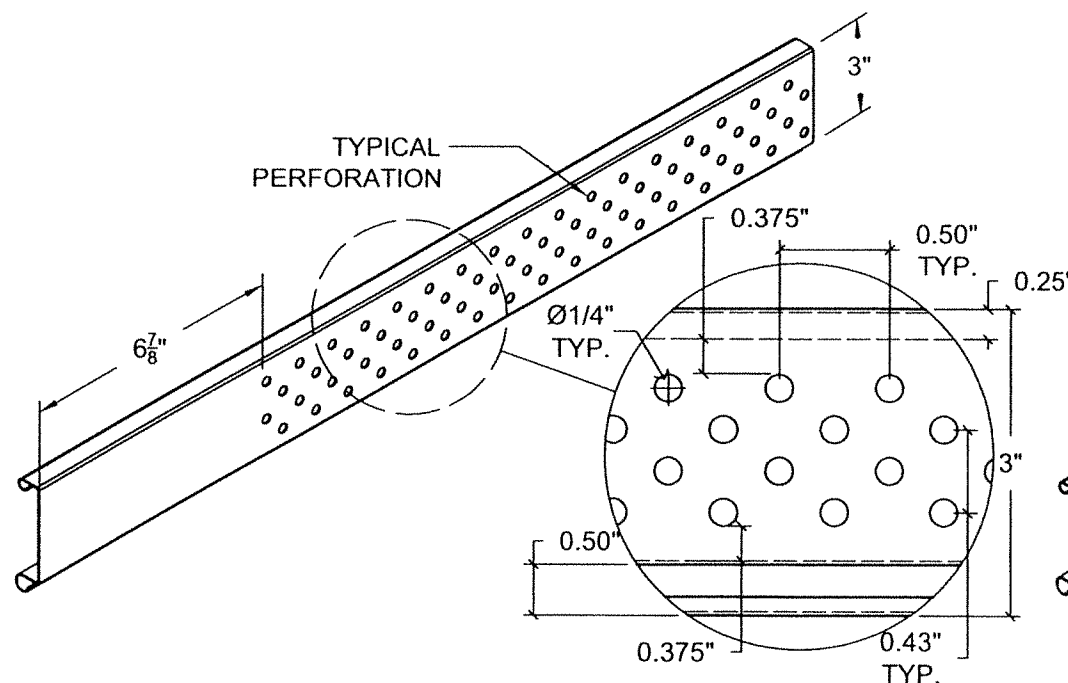
24 gage  
CLOSURE  
INSULATION  
MATERIAL  
(SEE NOTE  
11/1)



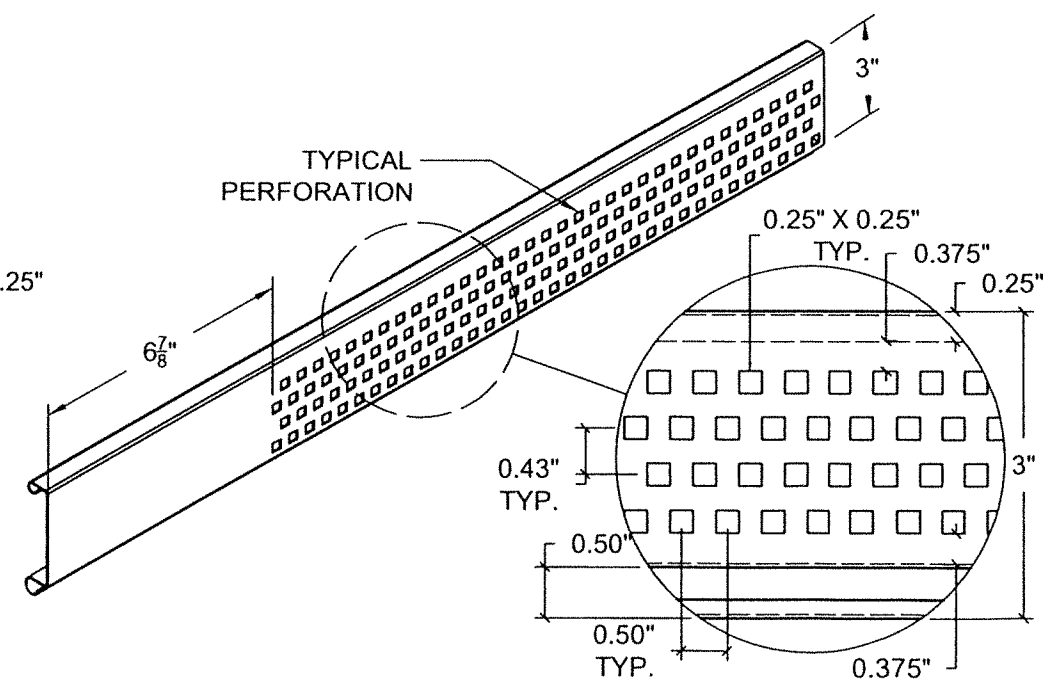
1A PERFORATED FLAT SLAT 1



1B PERFORATED FLAT SLAT 1



1C PERFORATED FLAT SLAT 1



1D PERFORATED FLAT SLAT 1

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COMPONENTS  
N.T.S.

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STATE OF  
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PROFESSIONAL ENGINEER  
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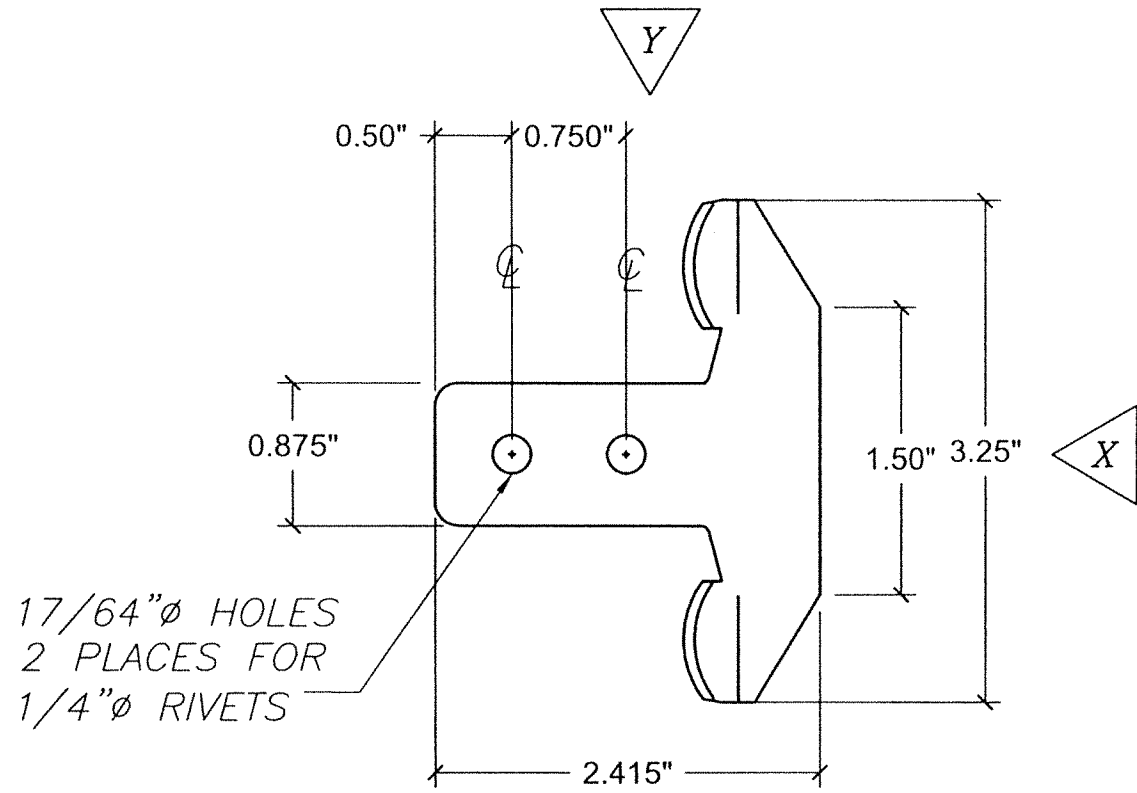
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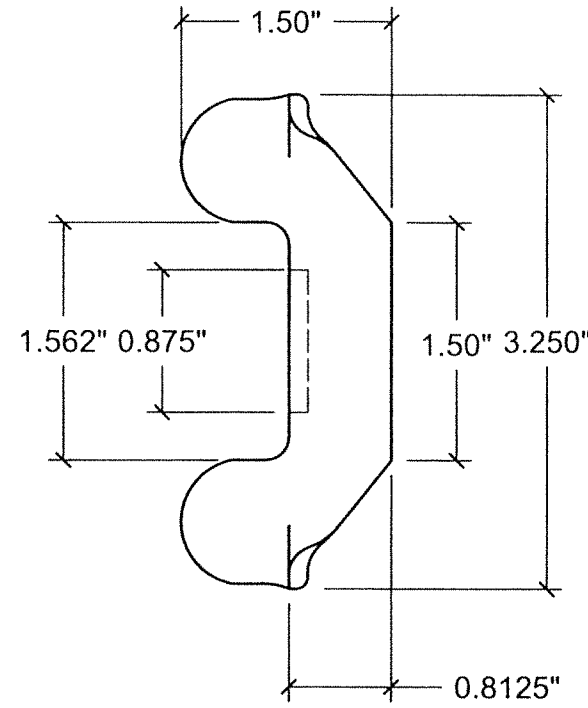
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SHEET 2 OF 5

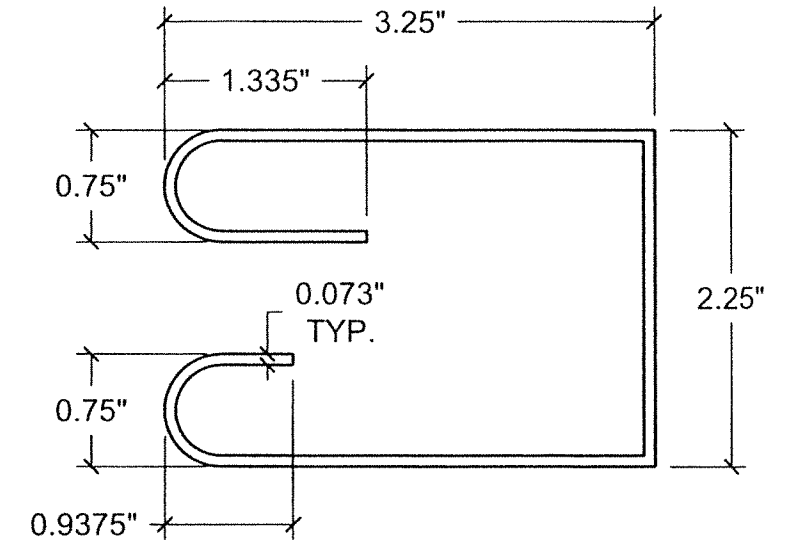


17/64"Ø HOLES  
2 PLACES FOR  
1/4"Ø RIVETS

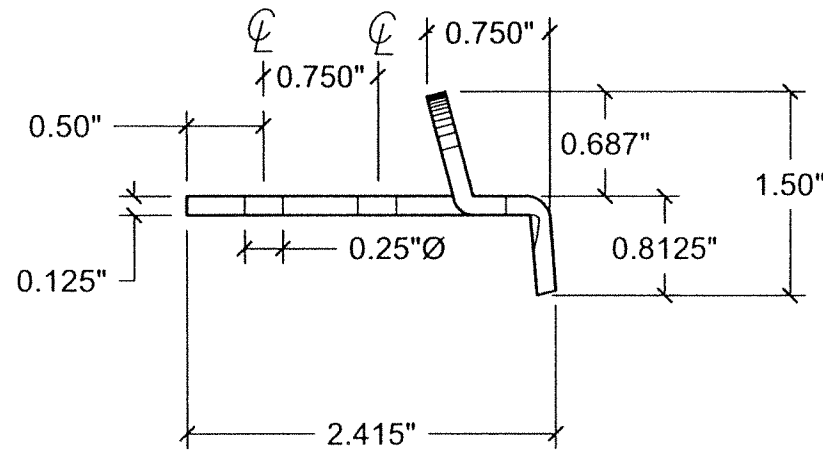
TYPICAL ELEVATION



VIEW X

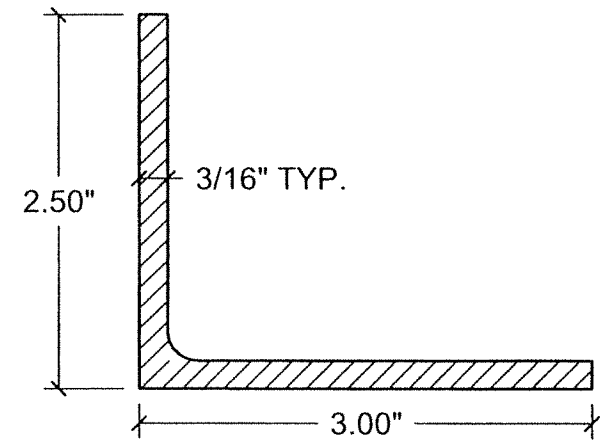


3 CHANNEL GUIDE



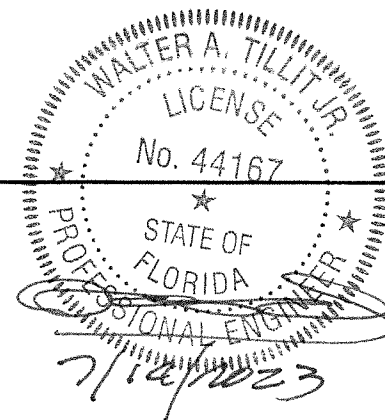
VIEW Y

2 WINDLOCK



4 TRACK ANGLE

COMPONENTS (CONT'D)  
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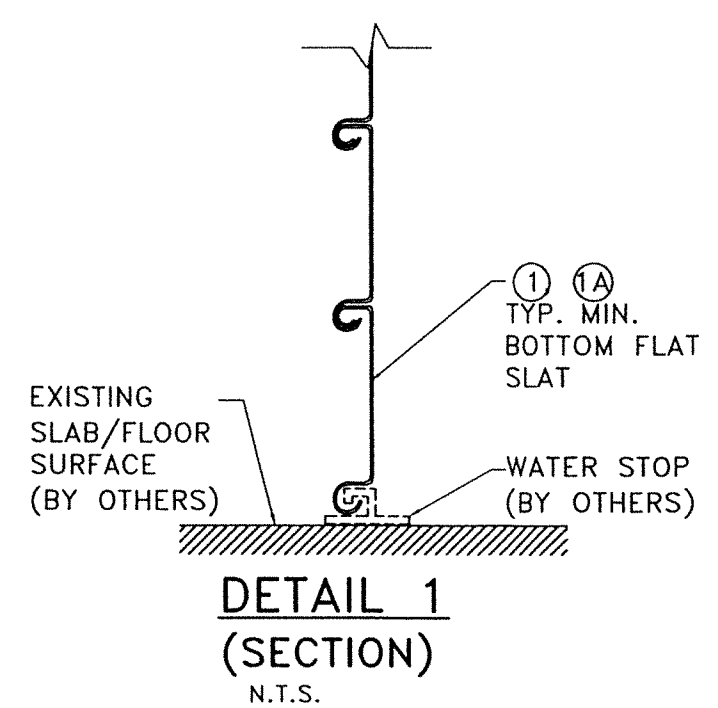
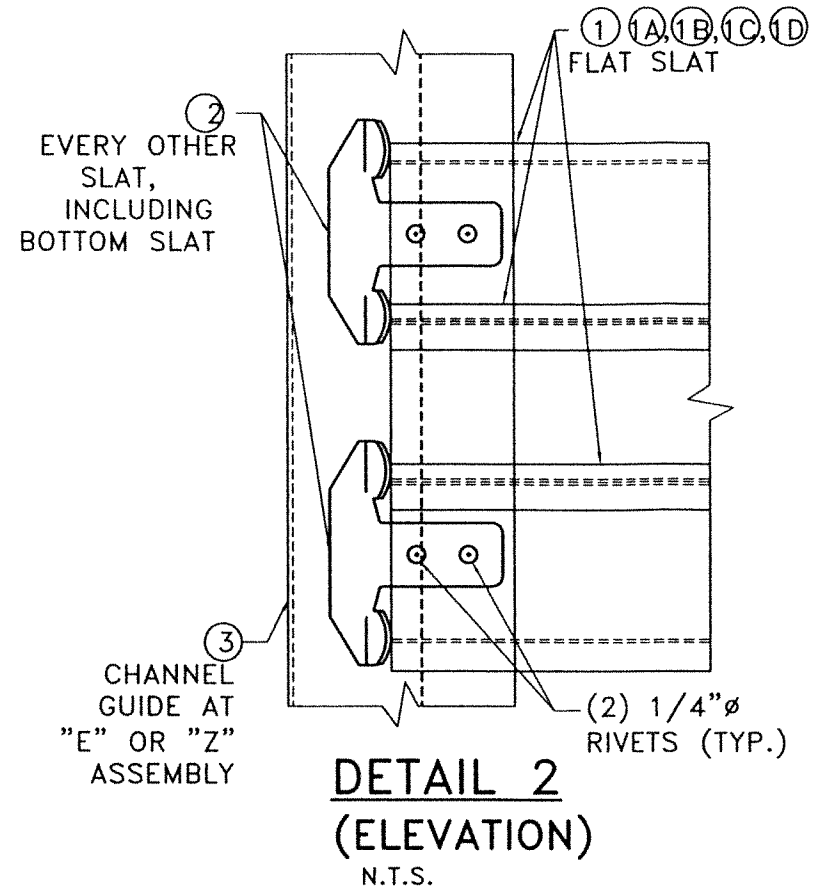
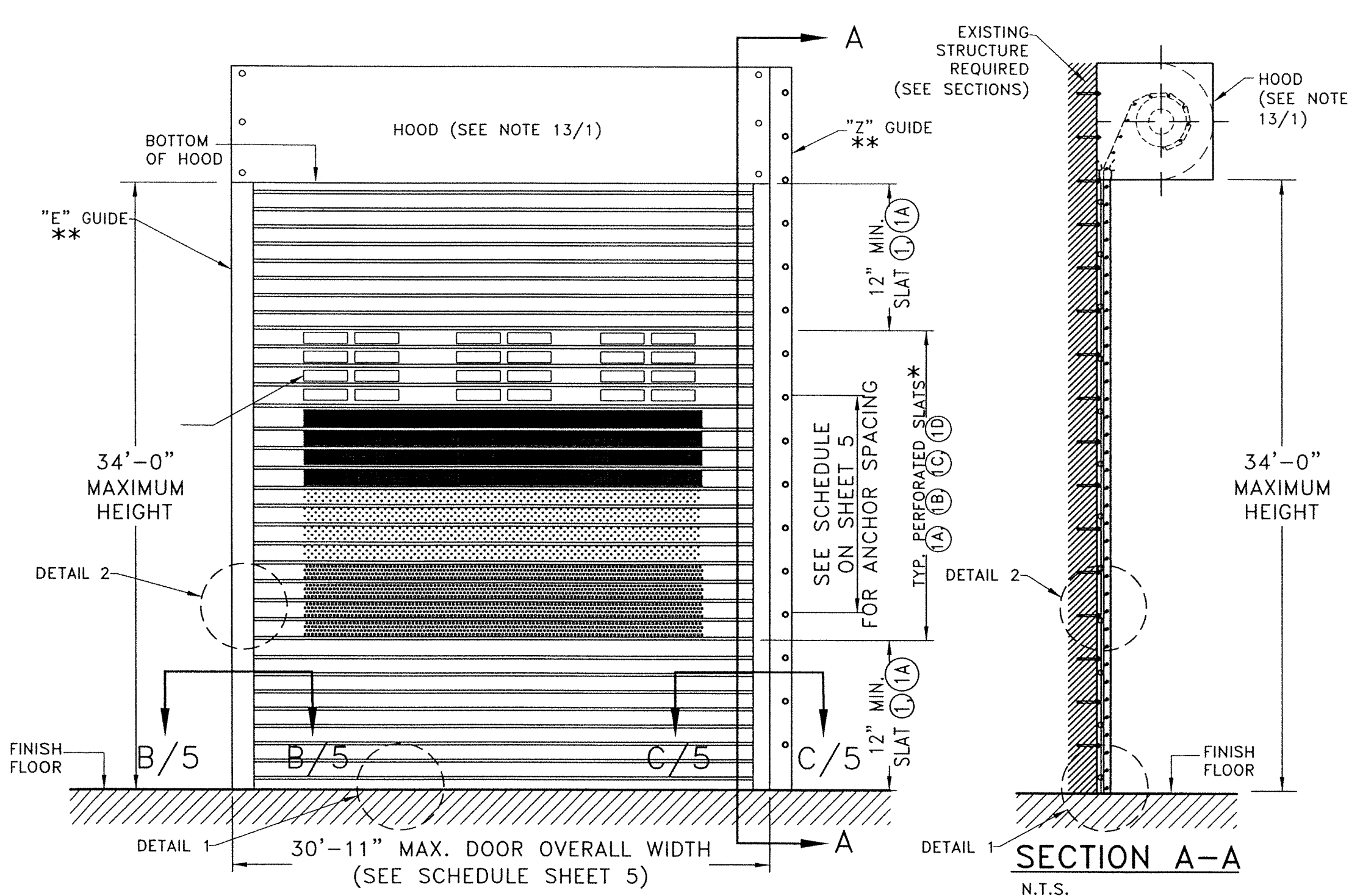
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SHEET 3 OF 5



**TYPICAL DOOR ELEVATION\***  
N.T.S.

**SECTION A-A**  
N.T.S.

**DETAIL 1**  
**(SECTION)**  
N.T.S.

\* SLATS ①A, ①B, ①C, ①D MAYBE COMBINED AS NEEDED, HOWEVER TOP & BOTTOM 12" OF DOOR HEIGHT MUST USE SLAT ① (SOLID) OR ①A. SEE NOTE 1/1 REGARDING DETERMINATION OF ASD DESIGN WIND LOAD.

\*\* "E" & "Z" GUIDES MAYBE USED AS NEEDED ON A GIVEN INSTALLATION.

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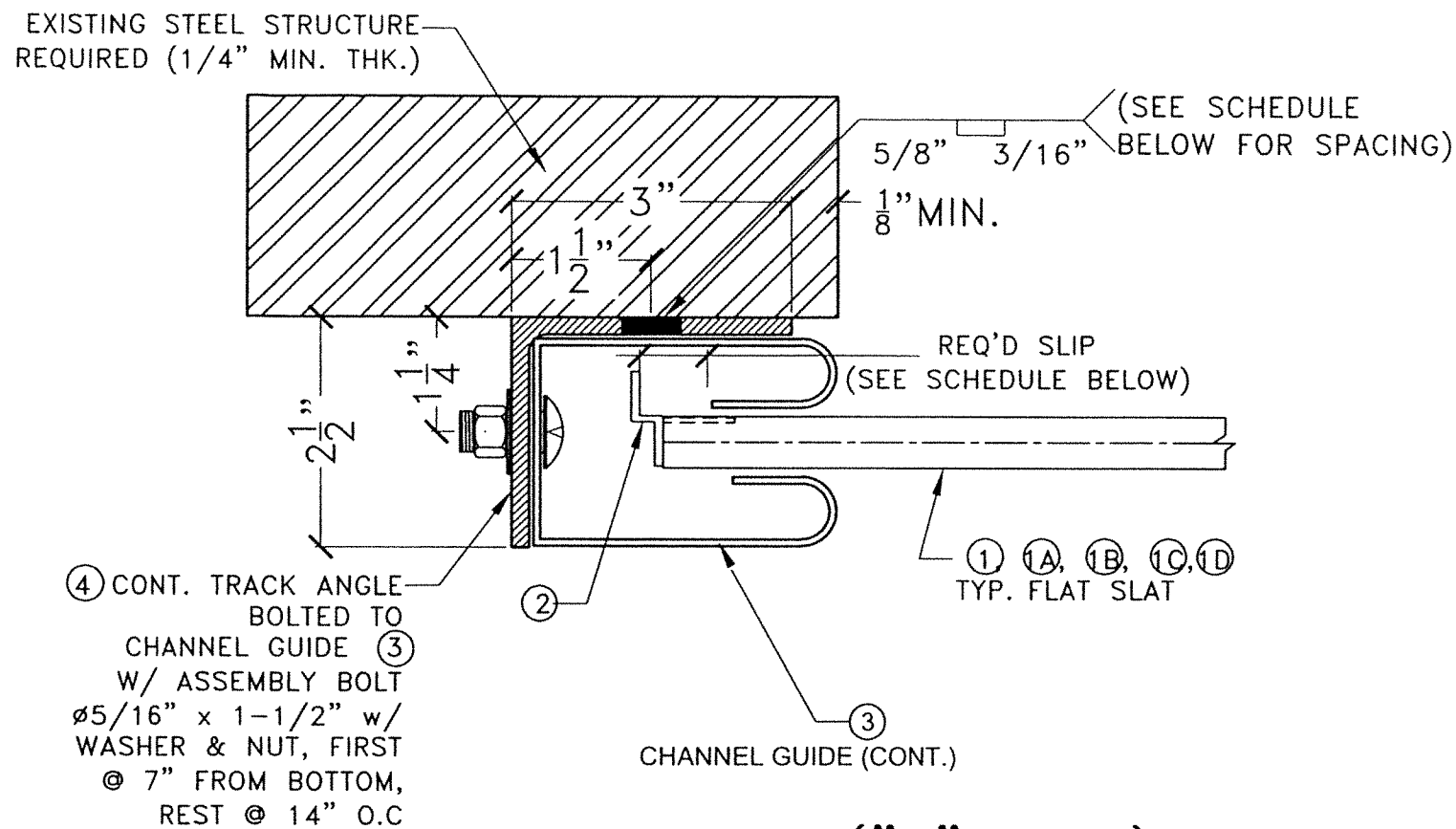
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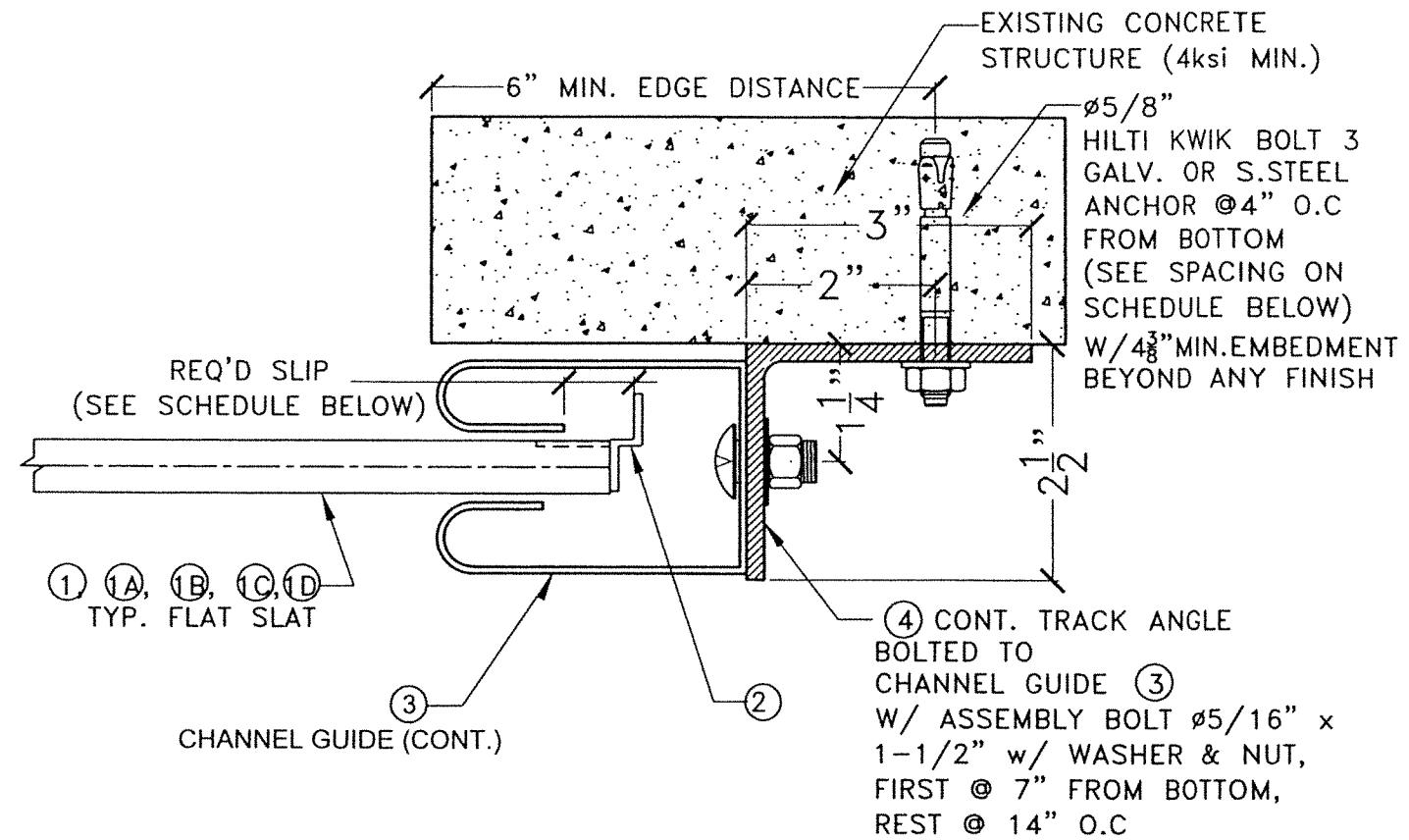
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**SECTION B-B ("E" GUIDE)**  
N.T.S.



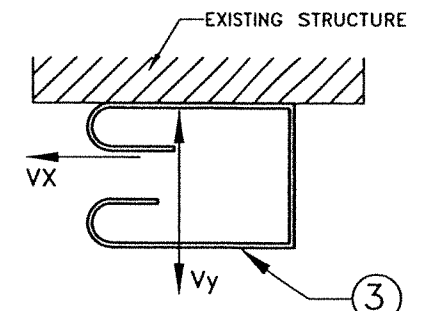
**SECTION C-C ("Z" GUIDE)**  
N.T.S.

**MAX. CONNECTION SPACING SCHEDULE BY MEANS OF CONCRETE ANCHOR OR PLUG WELDING TO EXISTING STRUCTURE, VALID FOR ±70.0 ASD PRESSURE RATING.**

DOOR WIDTH	REQ'D SLIP	HILTI KWIK BOLT 3 ANCHORS INTO 4000 PSI CONCRETE JAMB	PLUG WELD INTO 1/4" THICK. A36 STEEL JAMB
12'	1/2"	5/8" @ 14" O.C	5/8" x 3/16" @ 14" O.C
16'	1"	5/8" @ 10" O.C	5/8" x 3/16" @ 13" O.C
20'	1 1/4"	5/8" @ 8" O.C	5/8" x 3/16" @ 10" O.C
25'	1 3/8"	5/8" @ 7" O.C	5/8" x 3/16" @ 8" O.C
30'-11"	1 1/2"	5/8" @ 6" O.C	5/8" x 3/16" @ 6" O.C

**JAMB REACTIONS V<sub>x</sub>, V<sub>y</sub> SCHEDULE**

ASD PRESSURE RATING	DOOR WIDTH	DESIGN SLIP	V <sub>x</sub> (lb/ft)	V <sub>y</sub> (lb/ft)
+70/-70 OR LESS	12'	1/2"	1376	420
	16'	1"	1653	560
	20'	1-1/4"	2114	700
	25'	1-3/8"	2785	875
	30'-11"	1-1/2"	3578	1082



**LOAD DIAGRAM ON CHANNEL GUIDE (3)**

\*ANCHOR WITH 6" E.D & 4 3/8" MIN. EMBEDMENT INTO CONCRETE f'<sub>c</sub>=4Ksi., BEYOND ANY FINISH.

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SHEET 5 OF 5