

GENERAL NOTES:

1. (2) & (3) TRACK SERIES FIW-2004-D ALUMINUM SLIDING GLASS DOOR LARGE MISSILE IMPACT, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. (2) & (3) TRACK SERIES FIW-2004-D ALUMINUM SLIDING GLASS DOOR (L.M.I) MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. (H.V.H.Z) AND OUT OF IT (N.H.V.H.Z).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 AND 1609 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.

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 3 BELOW.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. A DURATION FACTOR $C_D=1.60$ WAS USED TO VERIFY FASTENERS IN WOOD.

THIS DOOR'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER AMERICAN TESTING LAB. OF SOUTH FLORIDA REPORT # 0111.01-03 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE. GLASS VERIFIED PER ASTM E-1300, PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE.

2. REMAINING COMPONENTS FOR THIS SLIDING GLASS DOOR SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS AND COMPONENTS ON SHEETS 2 & 3 FOR (2) TRACK & 7 & 8 FOR (3) TRACK, RESPECTIVELY OF THIS DRAWING. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

3. **MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR PRODUCT IS + 100.0, -100.0 p.s.f.**
SEE DOOR ELEVATIONS ON SHEET 4 FOR (2) TRACK & AND 9 FOR (3) TRACK FOR QUALIFIED CONFIGURATIONS.

4. **THIS (2) AND (3) TRACK HIGH IMPACT SLIDING GLASS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**

5. **THIS (2) AND (3) TRACK HIGH IMPACT SLIDING GLASS DOOR IS APPROVED FOR AIR AND WATER INFILTRATION.**

- 6 ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

7. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, $G=0.55$. AND SHALL COMPLY WITH SECTION 2411.3.3.3 OF THE FLORIDA BUILDING CODE.

- (7.1) 2X WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF DOOR FRAME ANCHORAGE. DOOR FRAME MUST BE SEPARATELY ANCHORED TO 2X WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.

- (7.2) 1X WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. DOOR FRAME ANCHOR SHALL BE USED TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH DOOR FRAME & 1X WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.

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

8. ANCHOR NOTES:

EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.

- (A) **TO EXISTING POURED CONCRETE:** (Min. $f'_c = 3.192$ ksi), MIN. EDGE DISTANCE = $2 \frac{1}{2}"$

(A.1) **AT HEADER & SILL:** $1 \frac{1}{4}"$ TAPCON OR ULTRACON W/ $1 \frac{3}{4}"$ MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC OR DEWALT RESPECTIVELY. THRU $1"$ P.T. WOOD BUCK OR DIRECTLY TO EXISTING CONCRETE (IF 1X BUCK IS NOT NEEDED.) MIN. EDGE DISTANCE IS $3"$.

- (B) **TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK:** MIN. EDGE DISTANCE = $2 \frac{1}{2}"$

- $1 \frac{1}{4}"$ TAPCON OR ULTRACON W/ $1 \frac{1}{4}"$ MIN. EMBEDMENT, AS MANUFAC. BY ITW BUILDEX, INC. OR DEWALT RESPECTIVELY, THRU $1"$ P.T. WOOD BUCK OR DIRECTLY TO BLOCK. (IF 1X BLOCK IS NOT NEEDED)

- (C) **TO EXISTING (2) 2x P.T. WOOD BUCK:** MIN. EDGE DISTANCE = $1"$

(C.1) **AT HEAD & SILL:**

- $1 \frac{1}{4}"$ TAPCON OR ULTRACON W/ $1 \frac{1}{2}"$ MIN. EMBEDMENT, AS MANUFAC. BY ITW BUILDEX, INC. OR DEWALT RESPECTIVELY.

- (D) **TO EXISTING MIN. $1 \frac{1}{8}"$ THICK ALUMINUM MEMBER (6063-T5 ALLOY):** MIN. EDGE DISTANCE = $1 \frac{1}{2}"$.

- $\#1 \frac{1}{4}"$ - 14 S.S TEK SCREW, FULLY EMBEDDED PLUS 3 THREADS BEYOND, AS MANUFACTURED BY ITW BUILDEX, INC. USE ONLY AT HEAD & SILL.

- (E) **TO EXISTING MIN. 12 GAGE STEEL MEMBER (ASTM A-500, A-653 OR A-36):** MIN. EDGE DISTANCE = $1 \frac{1}{2}"$.

- $\#1 \frac{1}{4}"$ - 14 S.S TEK SCREW, FULLY EMBEDDED PLUS 3 THREADS BEYOND, AS MANUFACTURED BY ITW BUILDEX, INC. USE ONLY AT HEAD & SILL.

9. BEARING SHIM ($1 \frac{1}{4}"$ MAX. SEE SECTIONS) MAY BE ALLOWED AT DOOR HEADER OR SILL.
ANCHOR LOCATION AS PER DETAILS ON THIS DRAWING.

10. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT
IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

11. (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 INCLUDING LIFE SAFETY 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 ALTERED BY ANY MEANS.

(d) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

TWO AND THREE TRACK SERIES FIW-2004-D
ALUMINUM SLIDING GLASS DOOR (L.M.I)

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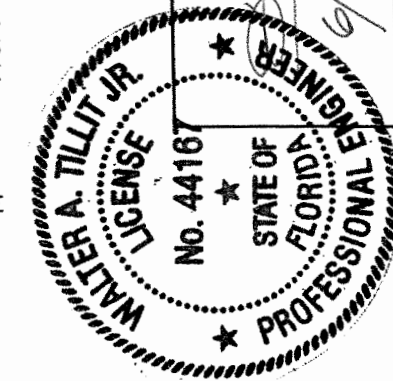
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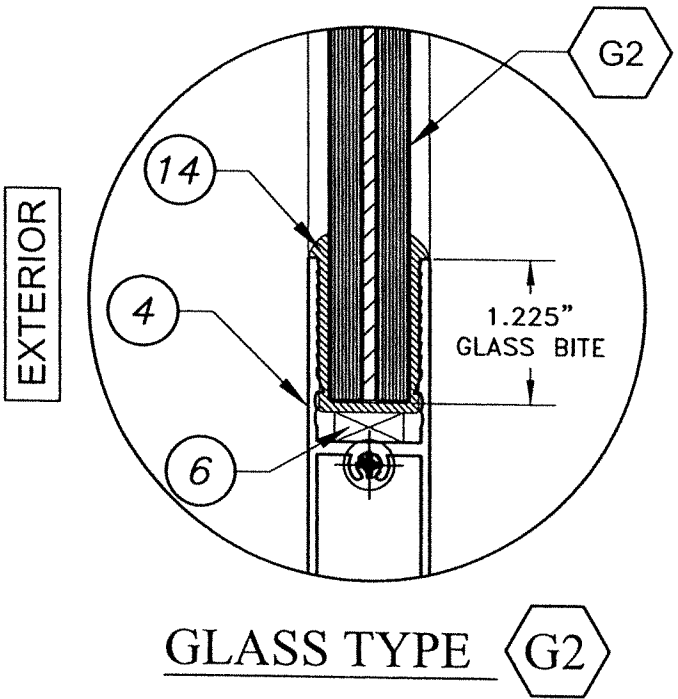
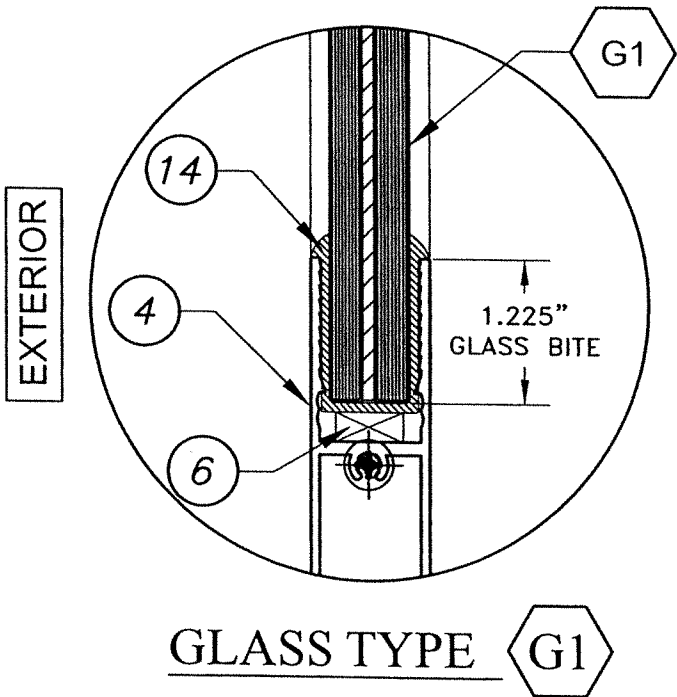
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24-038

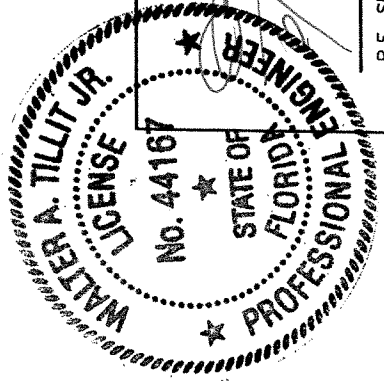
SHEET 1 OF 11



BILL OF MATERIALS (CONT'D) FOR TWO TRACK DOOR		
COMPONENT #	DESCRIPTION	MATERIAL
G1	0.534" OVERALL LAMINATED GLASS, 1/4" H.S + 0.090 INNER LAYER FILM, SENTRY GLASS PLUS BY KURARAY AMERICA INC.+ 1/4" H.S	GLASS
G2	0.564" OVERALL LAMINATED GLASS, 1/4" H.S + 0.120 INNER LAYER FILM, UVEKOL-LIQ. RESIN BY ALLNEX USA INC. + 1/4" H.S	GLASS



GLAZING DETAIL
SCALE: N.T.S



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TWO AND THREE TRACK SERIES FW-2004-D
ALUMINUM SLIDING GLASS DOOR (L.M.I.)

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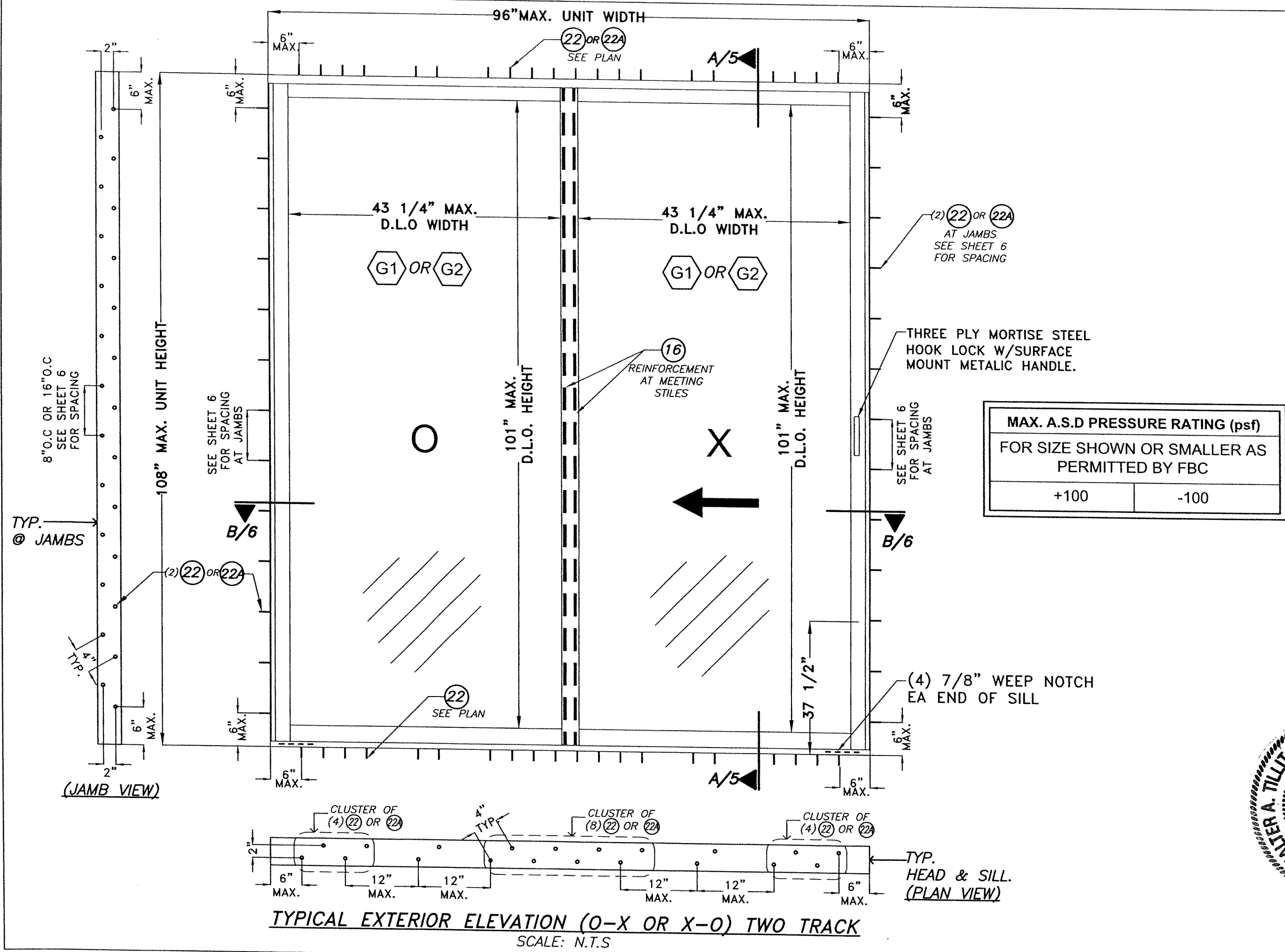
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DATE

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

SHEET 3 OF 11



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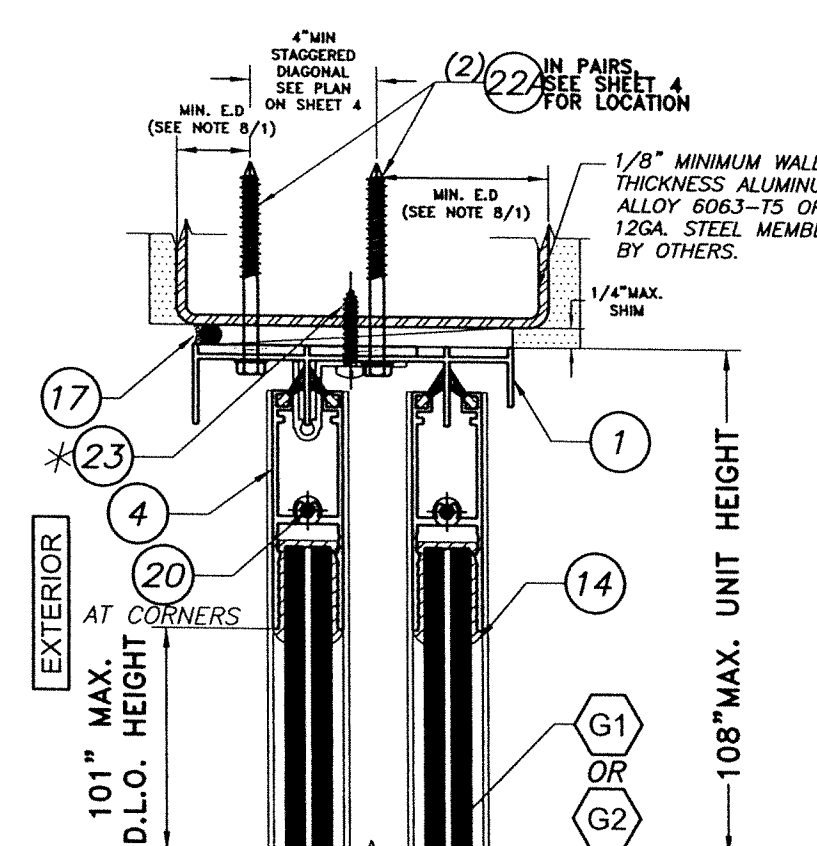
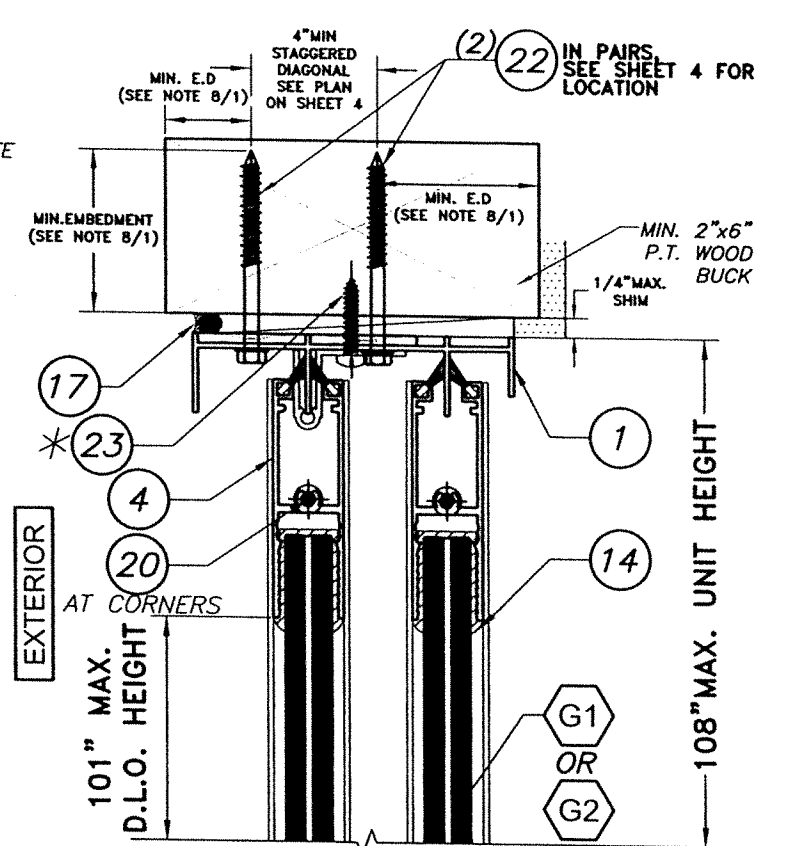
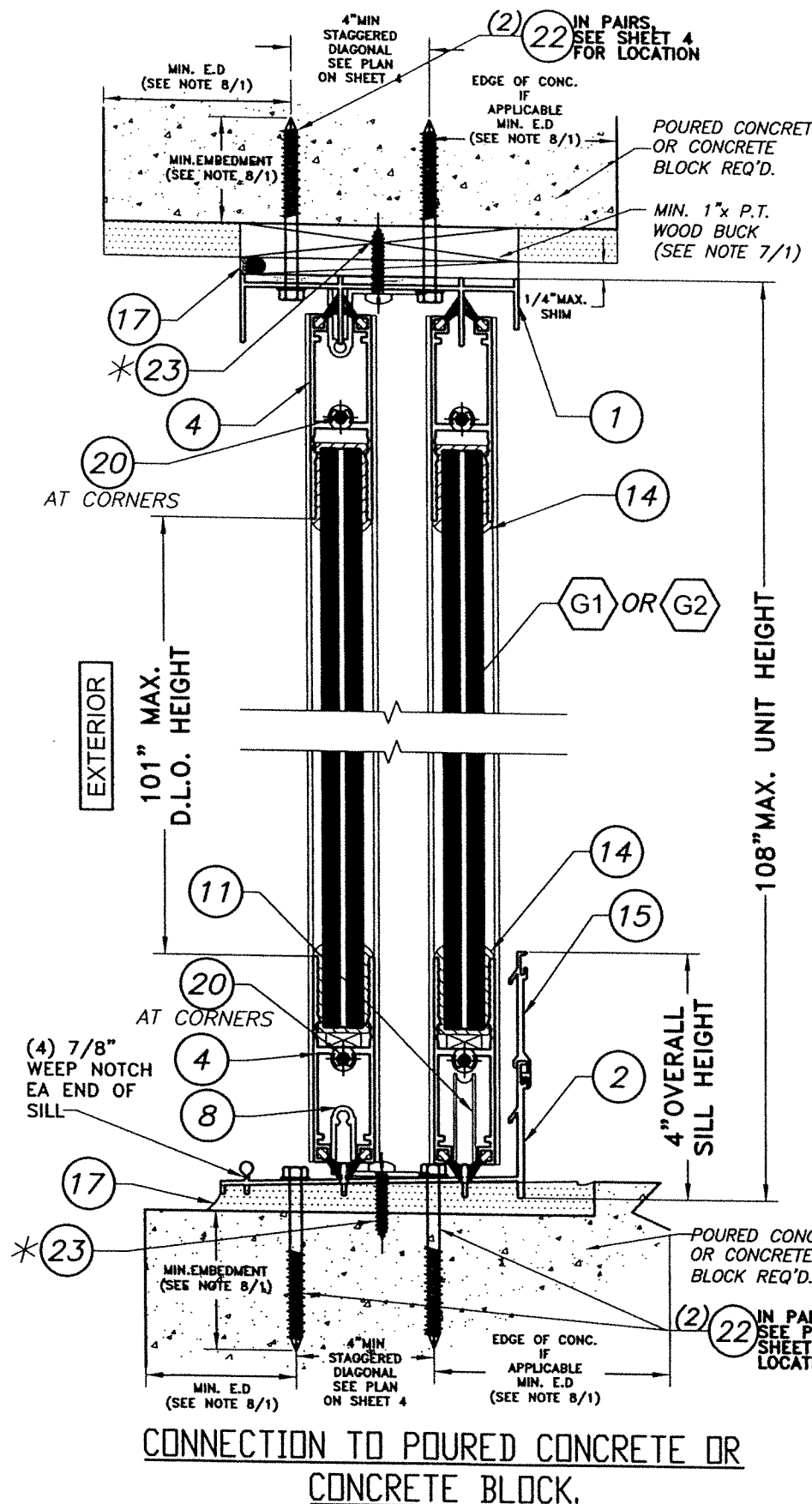
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FLORIDA PROFESSIONAL ENGINEER
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STATE OF FLORIDA

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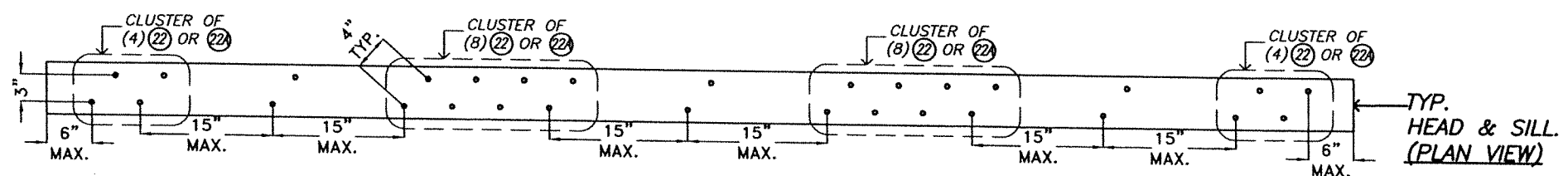
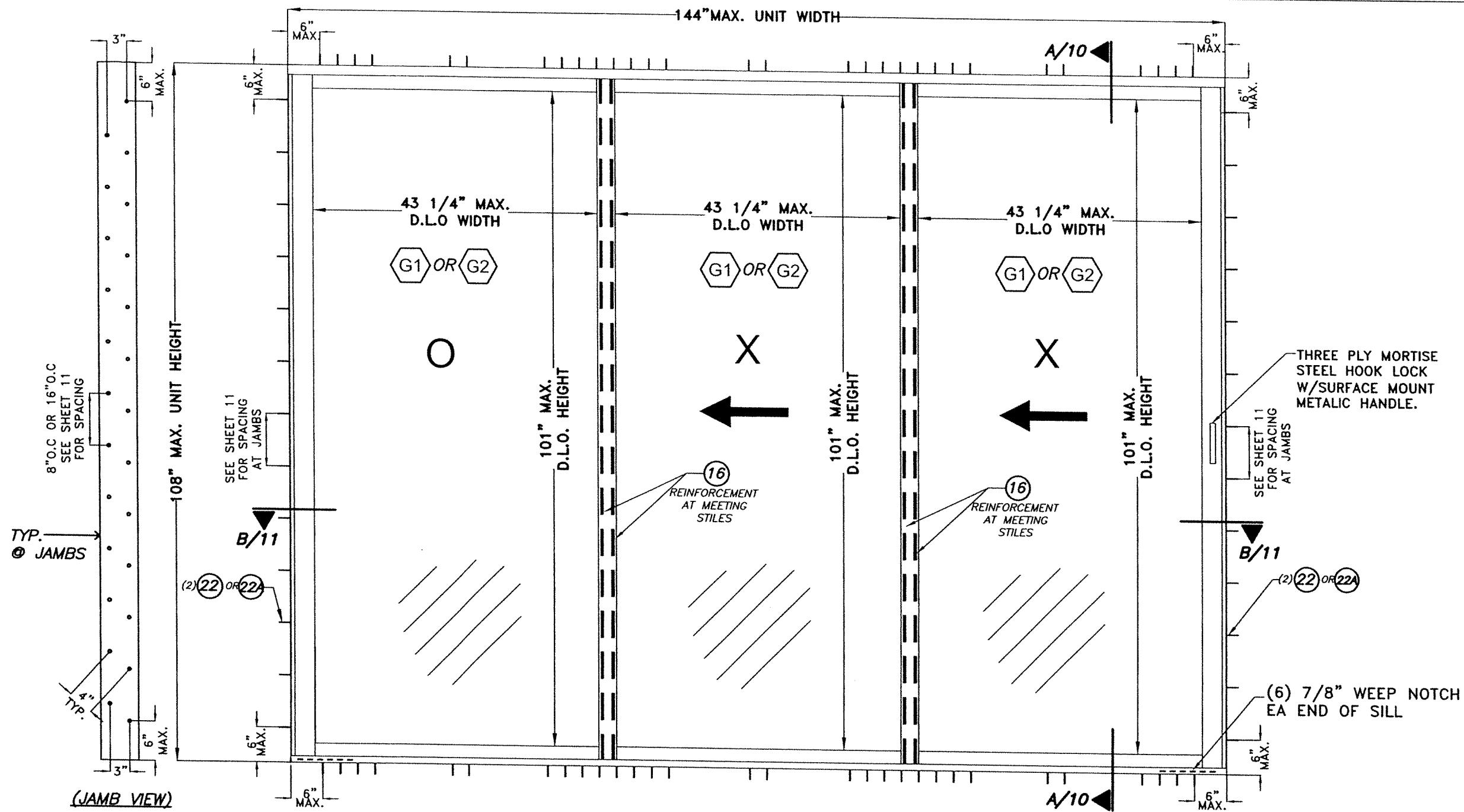
SECTION A-A FOR TWO TRACK SCALE: N.T.S

* (6) 23 AT 3" MAX. FROM JAMBSTILE AND AT EQUAL SPACES CENTER TO CENTER

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TYPICAL EXTERIOR ELEVATION (O-X-X) THREE TRACK
SCALE: N.T.S

MAX. A.S.D PRESSURE RATING (psf)	
FOR SIZE SHOWN OR SMALLER AS PERMITTED BY FBC	
+100	-100

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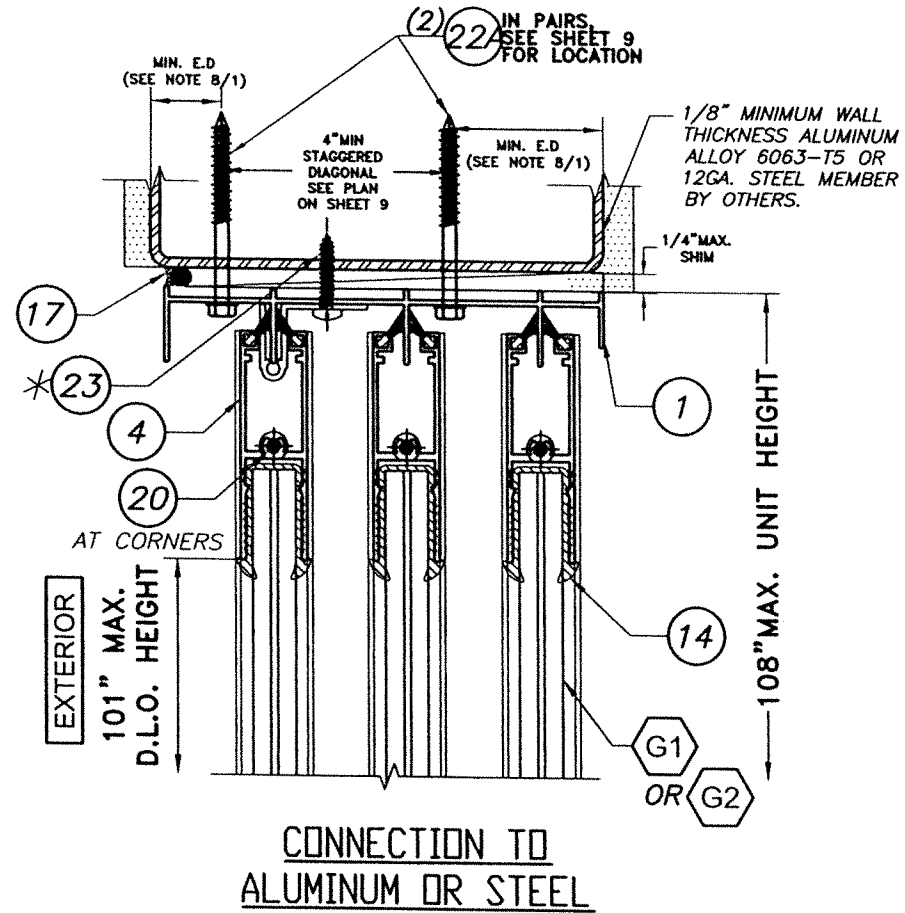
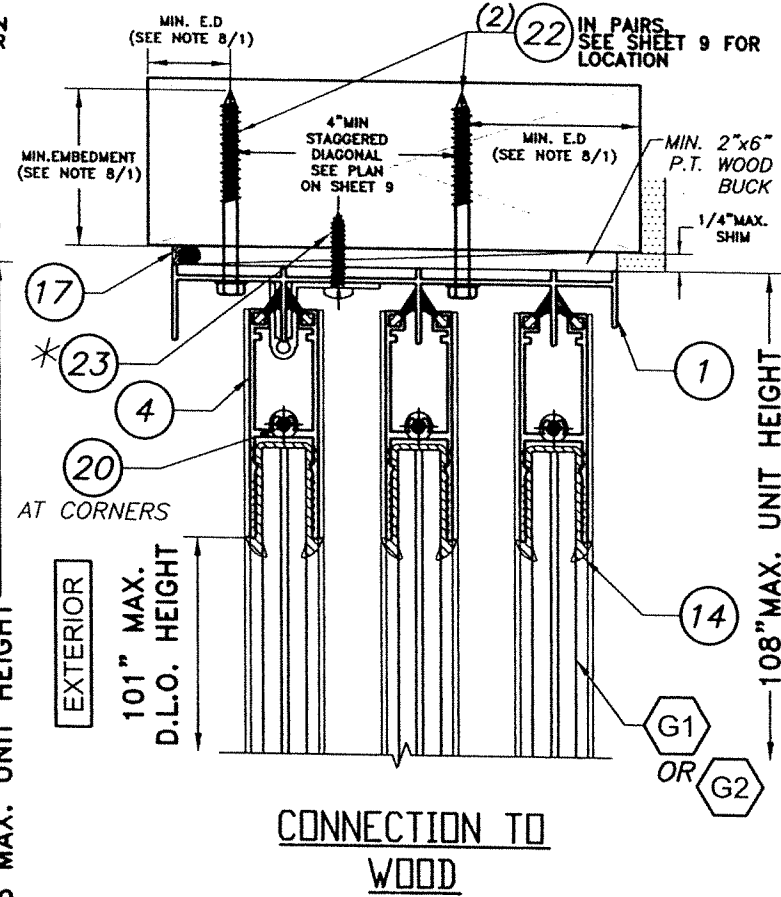
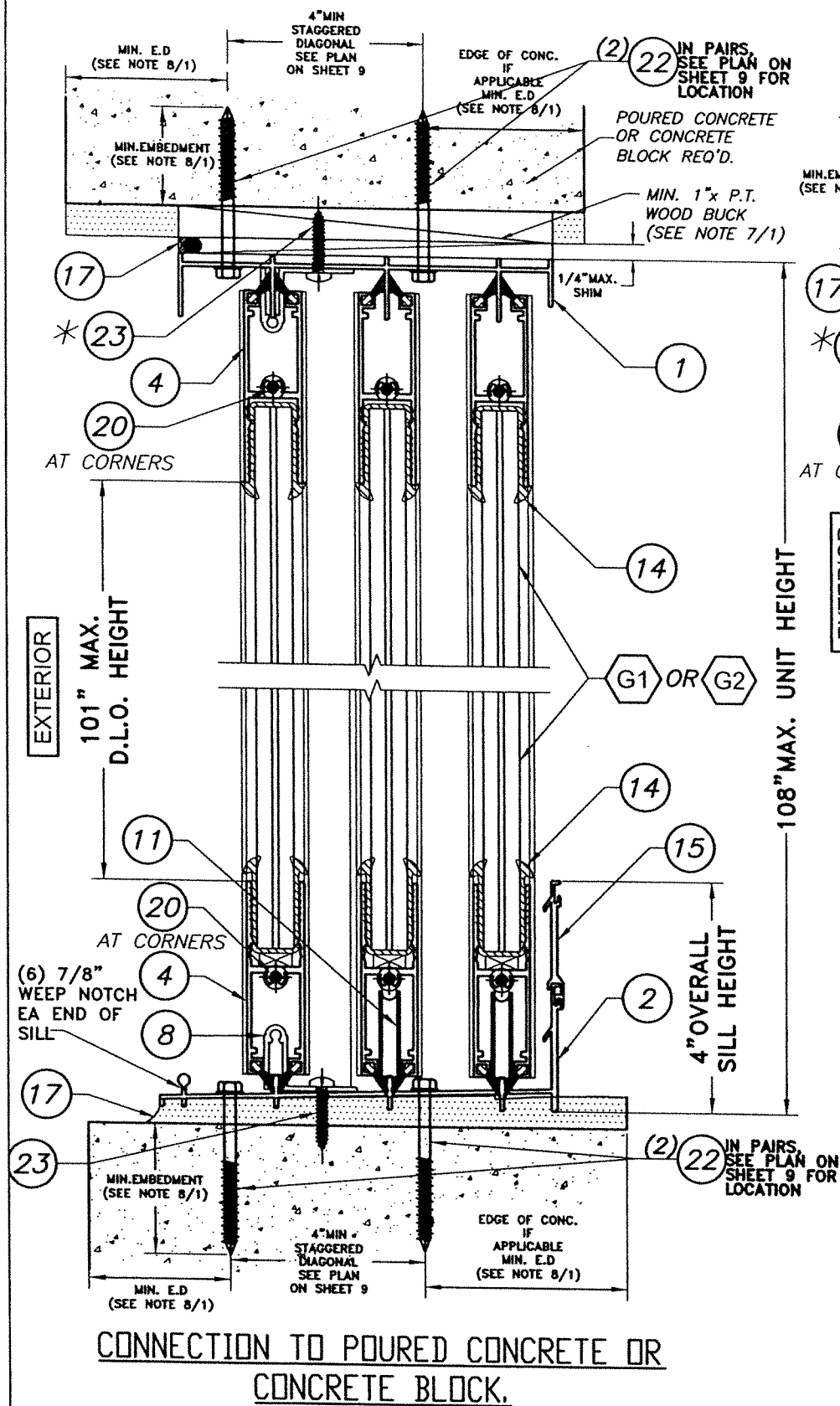
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24-038
DRAWING NO

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

P.E. SEAL/SIGNATURE/DATE



SECTION A-A FOR THREE TRACK

SCALE: N.T.S

* (6) (23) AT 3" MAX. FROM JAMBSTILE AND AT EQUAL SPACES CENTER TO CENTER

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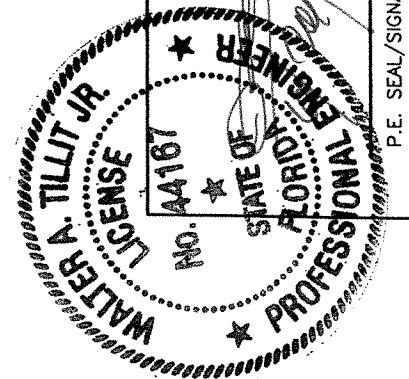
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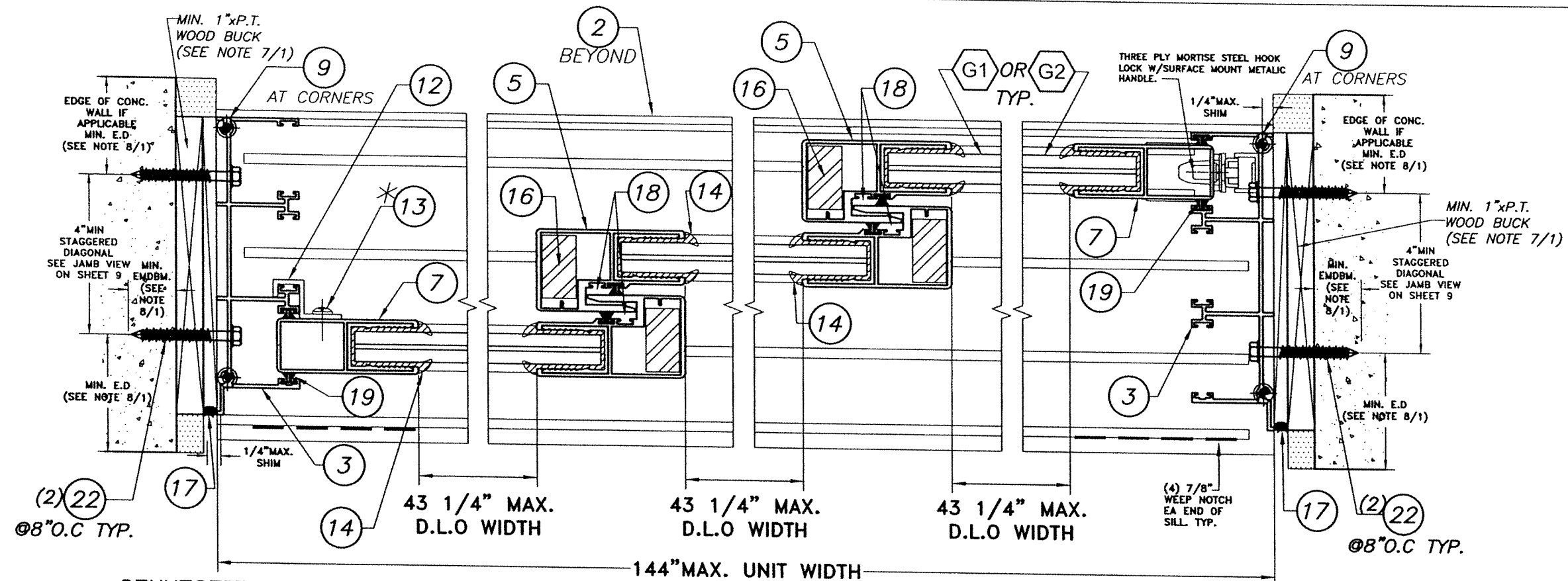
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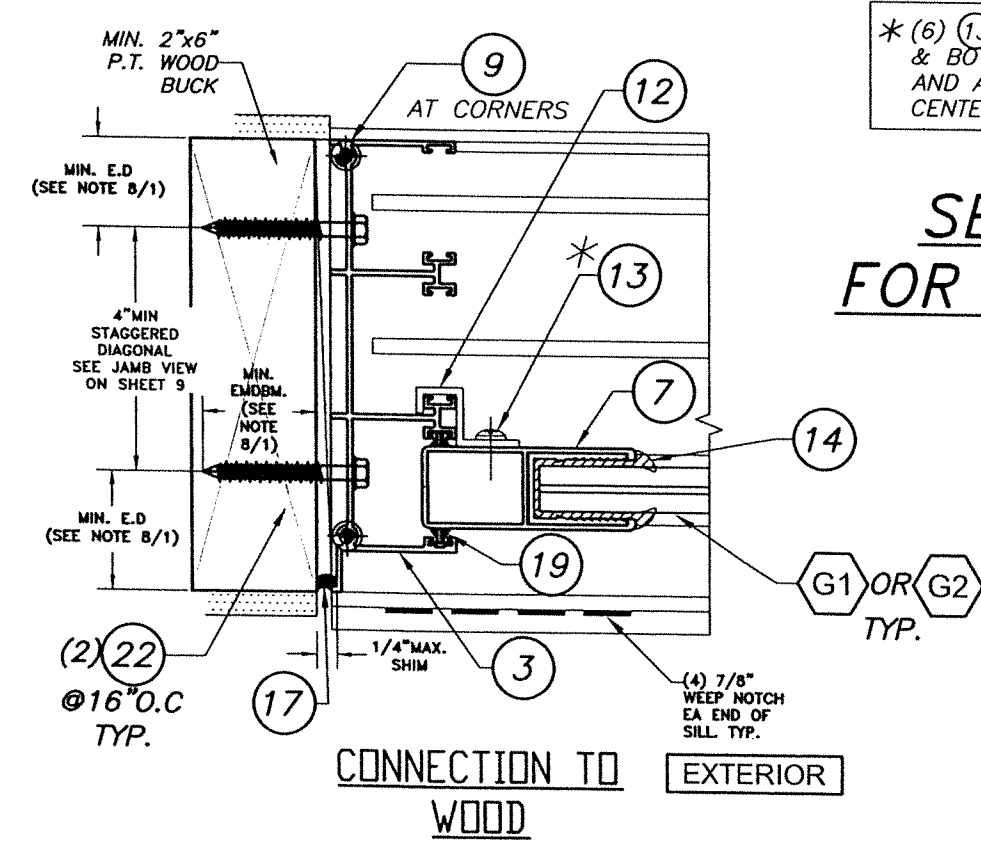


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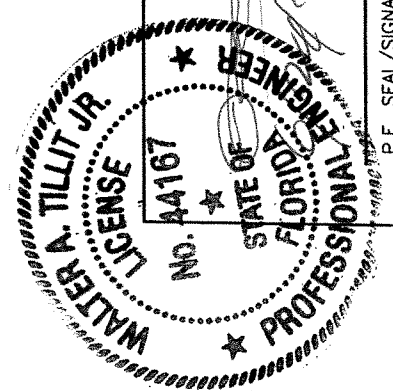
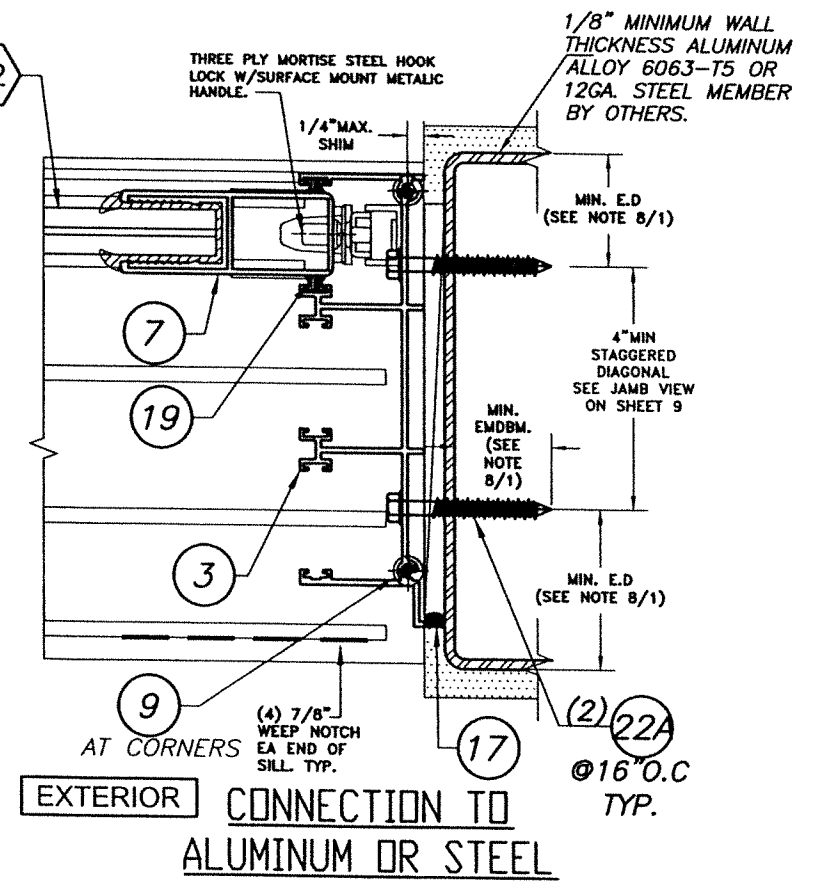


CONNECTION TO POURED
CONCRETE OR CONCRETE BLOCK.

CONNECTION TO POURED
CONCRETE OR CONCRETE BLOCK.



SECTION B-B
FOR THREE TRACK
SCALE: N.T.S.



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