

GENERAL NOTES TWO-TRACK SYSTEM, THREE TRACK SYSTEM:

1. SERIES LAZH 13000 HIGH IMPACT SLIDING GLASS DOOR, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE. SERIES 13000 HIGH IMPACT SLIDING GLASS DOOR 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 7-16 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 7-16 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 CD=1.60 WAS USED TO VERIFY FASTENERS IN WOOD. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018. THESE DOOR'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY INC., LAB REPORT # 7575 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE.
2. REMAINING COMPONENTS FOR THIS SLIDING GLASS DOOR SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS SHEETS 2 (TWO TRACK DOOR) AND 26 (THREE TRACK DOOR) RESPECTIVELY OF THIS DRAWING.
3. **MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THESE DOORS SHALL BE AS SHOWN ON SHEETS 22 (TWO TRACK SYSTEM) & 46 (THREE TRACK SYSTEM). SEE DOOR ELEVATIONS ON SHEETS 4 THRU 8 (TWO TRACK SYSTEM) & 28 THRU 31 (THREE TRACK SYSTEM) FOR QUALIFIED CONFIGURATIONS.**
4. **THIS SERIES 13000 HIGH IMPACT SLIDING GLASS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**
5. **THIS SERIES 13000 HIGH IMPACT SLIDING GLASS DOOR IS APPROVED FOR AIR AND WATER INFILTRATION.**
6. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2015 ALUMINUM DESIGN MANUAL.
- 7 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.
8. 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 SECTIONS 2411.3.3.3 OF THE FLORIDA BUILDING CODE.
- (8.1)2X WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF SLIDING DOOR FRAME ANCHORAGE. SLIDING DOOR FRAME MUST BE SEPARATELY ANCHORED TO 2X WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.
- (8.2)1X WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. SLIDING DOOR FRAME ANCHOR SHALL BE USED TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU **BOTH SLIDING DOOR FRAME & 1X WOOD BUCK** INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.
- (8.3)SLIDING DOOR FRAME WITH ADAPTOR (COMPONENT # 6) MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED OF WOOD BUCKS WHEN MASONRY OPENING IS NOT LARGER THAN ACTUAL DOOR OVERALL DIMENSIONS. HOWEVER, SHIMS (SEE NOTE 9) MAY BE ALLOWED AT SLIDING DOOR FRAME ANCHOR LOCATION IF NEEDED.
9. **ANCHOR NOTES:** EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH .
- (A) **TO EXISTING POURED CONCRETE:** (Min. f'c = 3.000 ksi), MIN. EDGE DISTANCE = 2 3/16".
- 5/16"Ø TAPCON XL W/ 1 3/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC (COMPONENT 29), THRU 1" P.T. WOOD BUCK.
- (B) **TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK** MIN. EDGE DISTANCE = 4". (APPLICABLE TO JAMBS ONLY)
- 5/16"Ø TAPCON W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 29), THRU 1" P.T. WOOD BUCK.
- (C) **TO EXISTING 2x P.T. WOOD BUCK (MIN. G=0.55).** MIN. EDGE DISTANCE = 1.25".
- 5/16"Ø TAPCON W/ 1 1/2" MIN. THREADED PENETRATION, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 29)
- (D) **TO EXISTING MIN. 1/8" THICK ALUMINUM MEMBER (6063-T5 ALLOY)** MIN. EDGE DISTANCE = 5/8".
- 5/16"Ø-18 AISI 410 HT SERIES STAINLESS SCREW, FULLY ENGAGED INTO MEMBER'S THICKNESS AND WITH 3/4" ADDITIONAL SCREW LENGTH BEYOND MEMBER THICKNESS , AS MANUFACTURED BY KANEBRIDGE INC. (COMPONENT 29A)
- (E) **TO EXISTING MIN. 12 GAGE STEEL MEMBER (ASTM A-500, A-653 OR A-36)** MIN. EDGE DISTANCE = 5/8".
- 5/16"Ø-18 AISI 410 HT SERIES STAINLESS SCREW, FULLY ENGAGED INTO MEMBER'S THICKNESS AND WITH 3/4" ADDITIONAL SCREW LENGTH BEYOND MEMBER THICKNESS, AS MANUFACTURED BY KANEBRIDGE INC. (COMPONENT 29A)).
9. PROVIDE 1/4" MAX. LOAD BEARING SHIM, WHEN ALLOWED BY 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.

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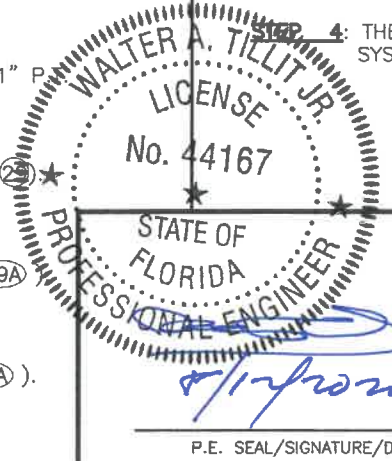
SHEETS #		DESCRIPTION
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11	34	SECTION C-C (2 & 3 TRACK SYSTEMS RESPECTIVELY).
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20	42, 43	COVERS LAYOUT (2 & 3 TRACK SYSTEMS RESPECTIVELY).
21	44, 45	COVERS CONNECTION LAYOUT (DETAILS) (2 & 3 TRACK SYSTEMS RESPECTIVELY).
22	46	MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR A MAXIMUM FRAME HEIGHT, FRAME WIDTH, D.L.O. HEIGHT & D.L.O. WIDTH (2 & 3 TRACK SYSTEMS RESPECTIVELY).
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25	49	CORNER CONNECTIONS (ISOMETRICS) (2 & 3 TRACK SYSTEMS RESPECTIVELY).

S.G.D SELECTION PROCEDURE :

- STEP 1:** DETERMINE A.S.D. DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING APPLICABLE ASCE 7 STANDARDS.
- STEP 2:** GO TO SCHEDULES BASED ON MAXIMUM DOOR FRAME HEIGHT, FOR 2 OR 3 TRACK SYSTEMS SHEETS 3A, 27A TO DETERMINE MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf) OF DESIRED GLASS.
- STEP 3:** DETERMINE MAXIMUM DOOR FRAME HEIGHT (in) FOR A GIVEN DESIGN PRESSURE, ON SCHEDULE ON SHEETS 22 & 46, FOR 2 OR 3 TRACK SYSTEM AND SELECT ANCHOR AT JAMBS & HEAD/SILL W/ A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1 USING SCHEDULES ON SHEETS 23, 24 (2 TRACK SYSTEM & 47, 48 (3 TRACK SYSTEM).
- STEP 4:** THE LOWEST VALUE OF A.S.D. DESIGN PRESSURE RATING RESULTING FROM STEPS 2 & 3 SHALL APPLY TO THE ENTIRE SYSTEM.

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

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



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SERIES LAZH 13000 HIGH IMPACT REINFORCED SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS

ALUMINA DISTRIBUTION CENTER

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F.P.

08/03/2020
DATE

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1	OLD 20-003	08/03/20	2		

SHEET 1 OF 49

BILL OF MATERIALS: TWO-TRACK DOOR:			
ITEM #	PART #	DESCRIPTION	MATERIAL
1	GIC301-1	FRAME HEAD	6063-T6
2	GIC302-1	FRAME SILL	6063-T6
3	GIC303-1	FRAME JAMB	6063-T6
4	GIC304-1	TOP RAIL	6063-T6
5	GIC305-1	BOTTOM RAIL	6063-T6
6	GIC306-1	LOCK STILE / FIX PANEL STILE	6063-T6
7	GIC307-1	MEETING STILE OUTER INTERLOCK	6063-T6
8	GIC308-1	MEETING STILE INNER INTERLOCK	6063-T6
9	GIC309-1	CENTERMATE FEMALE ASTRAGAL	6063-T6
10	GIC310	GLAZING BEAD AT (33) OR (33B) (L.G.)	6063-T6
10A	-	GLAZING BEAD AT (33A) OR (33C) (I.G.)	6063-T6
11A	GIC311	INTERLOCK STEEL STIFFENER, 0.890" x 1.750" FULL LENGTH	ASTM A-36 ZINC PLATED
13A	-	JAMB PANEL COVER, CONT.	6063-T6
15A	-	EXTERIOR STEEL REINFORCEMENT FOR FEMALE ASTRAGAL, 1 1/4" x 2" FULL LENGTH	ASTM A-36 ZINC PLATED
17	W223511K	TOP RAIL + JAMB + STILE + ASTRAGAL WEATHER STRIPPING PILE W/ INTEGRAL FIN	NEOPRENE
18	GIC315	BOTTOM RAIL SEAL FLAP	VINYL
19	GIC314	SETTING BLOCK	NEOPRENE
20	GIC316	GLAZING BULB	NEOPRENE
21	FASTENER	PANEL ASSEMBLY SCREWS, #10x1 1/4" P.H. S.D.S.	S.S.
22	FASTENER	FRAME ASSEMBLY SCREWS, #8x1" F.H. S.D.S.	S.S.
23	-	FOAM SEAL PRO-LON WEATHER STRIPPING, BY ULTRAFAB.	-
24	-	PANEL GUIDE (TOP ONLY) AT EACH END OF EACH PANEL @ 2/PANEL	CELCON
25	#1939-6010-55	GLASS PANEL ROLLER ASSEMBLY AT (2) (25) PER OPERABLE PANEL @ EACH END OF PANEL	S.S.
26	FASTENER	(2)1/4"x6-20x1" LONG T.H. S.S.M.S. TO STILES/ASTRAGAL FOR EACH ROLLER ASSEMBLY FASTENING	S.S.
27	2300-10SS / #623Z	3-PLY-DUAL-HOOK LOCK HANDLE LOCK (INTERIOR AND EXTERIOR) @ 36 1/2"/BOTTOM WITH LOCK INSTALLATION SCREW (2) #6-32x3/8" F.H. M.S. S.S. INCLUDES ZAMAK HANDLE @ 35 1/2"/BOTTOM W/ #10-24x1 3/4" O.H. M.S. S.S.	S.S.
28	2500-1061Z	LOCK STRIKE PLATE W/ STRIKE PLATE MOUNTING SCREW (2) #10x1 1/4" P.H. S.D.S.	S.S.
29	ANCHORS	5/16" Ø 11W BULDEX TAPCON XL	STEEL
29A	ANCHORS	5/16" Ø KANEBRIDGE AISI 410 HT SERIES	S.S.
31	GLAZING SILICONE SEALANT	STRUCTURAL SILICONE , DOW CORNING 795 & 995	SILICONE
33	LAMINATED GLASS	9/16" OVERALL LAMINATED GLASS W/ (1) 1/4" TEMPERED GLASS (EXTERIOR) + 0.035" THICK SENTRY GLASS (CLEAR AND WHITE) GLASS INTERLAYER BY KURARAY AMERICA, INC. + (1) 1/4" HEAT STRENGTHENED GLASS.	-
33A	INSULATED LAMINATED GLASS	1" OVERALL INSULATED LAMINATED GLASS W/ (1) 3/16" TEMPERED GLASS (EXTERIOR) + 3/8" AIR SPACE W/ 0.030"THK. 6063-T5 ALUMINUM SPACER ALL AROUND + 7/16" LAMINATED GLASS W/ 3/16" TEMPERED GLASS (EXTERIOR) + 0.035" THICK SENTRY GLASS (CLEAR AND WHITE) GLASS INTERLAYER BY KURARAY AMERICA, INC. + 3/16" HEAT STRENGTHENED GLASS.	-
33B	LAMINATED GLASS	9/16" OVERALL LAMINATED GLASS W/ (1) 1/4" TEMPERED GLASS (EXTERIOR)+L.G W/ 0.060" THICK TROSIFOL PVB, INTERLAYER BY KURARAY AMERICA, INC. +(1) 1/4" HEAT STRENGTHENED GLASS	-
33C	INSULATED LAMINATED GLASS	1" OVERALL INSULATED LAMINATED GLASS W/ (1) 3/16" TEMPERED GLASS (EXTERIOR) + 3/8" AIR SPACE W/ 0.030"THK. 6063-T5 ALUMINUM SPACER ALL AROUND + 7/16" LAMINATED GLASS W/ 3/16" TEMPERED GLASS (EXTERIOR) + I.G. W/ 0.060 THICK TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" HEAT STRENGTHENED GLASS.	-
34	-	BUMPON SPACER, 1/4" DIAMETER HALF SPHERE, CLEAR. 3" FROM CORNERS MAX. AND 12" O.C. (MAX.), AT MID-GLASS BITE ELEVATION, BY FRANK LOWE RUBBEL AND GASKET FLB-28, CLEAR.	SILICONE
35	-	SILL/HEAD COVER EXTERIOR PANEL	6063-T6
36	-	SILL/HEAD COVER INTERIOR PANEL	6063-T6
38	COVER FASTENER	1/4" x 1/2" F.H. SDS (MIN. Fy=92ksi Fu=124ksi)	STEEL
39	WATER RECEPTOR	TWO TRACK SYSTEM	6063-T6
40	FIXED PANEL GUIDE	SEE COMPONENT ON SHEET 3 FOR DETAIL (SEE NOTE 2/2 & VERTICAL SECTIONS), HARDNESS=60	RUBBER

WEEP HOLES		
DESCRIPTION	DISTANCE	LOCATION
1 1/8" BY 1/8" HIGH WEEP HOLES	6 1/4" FROM LEFT JAMB, USE (2) EACH END PANEL + (2) OPERABLE PANEL AT BALANCE	BETWEEN THE SCREEN RETAINER LEG AND AT THE VERTICAL LEG OF THE EXTERIOR PANEL TRACK
1 1/8" BY 1/8" HIGH WEEP HOLES	6 1/4" FROM LEFT JAMB, USE (2) EACH PANEL AT BALANCE	BETWEEN THE EXTERIOR PANEL TRACK AND THE INTERIOR PANEL TRACK
1 1/8" BY 1/8" HIGH WEEP HOLES	61 1/4" FROM LEFT/RIGHT JAMB, BALANCE @ (3) PER PANEL @ 12" o.c.	BETWEEN THE INTERIOR PANEL TRACK AND THE FRAME SILL FLANGE
1" BY 1/8" HIGH WEEP HOLES	11 5/8" FROM LEFT JAMB, BALANCE @ (2) PER PANEL @ 24" o.c.	SUB SILL ON THE INTERIOR VERTICAL LEG
1" BY 1/8" HIGH WEEP HOLES	11 5/8", BALANCE @ 24" o.c. FROM LEFT	SUB SILL ON THE EXTERIOR LEG

PADS AND GASKETS		
PADS AND GASKET TYPE	NUMBER AND SIZE	LOCATION
SELF ADHESIVE PILE PAD WITH MULTI INTEGRAL FIN	ONE 4" BY 3/4" WIDE	10 1/4" FROM EACH END OF EACH MID AND LAST PANEL FROM LEFT BOTTOM RAIL
OPEN CELL FOAM PAD (SECURED WITH SILICONE)	ONE 2 1/2" BY 1" BY 1" HIGH	EACH END OF EACH FRAME SILL EXTRUDED ALUMINUM COVER
OPEN CELL FOAM PAD (SECURED WITH SILICONE)	ONE 3" BY 1" BY 1/2" HIGH	6" FROM LEFT JAMB, BALANCE @ 4'-0" o.c.
SELF ADHESIVE PILE PAD WITH MULTI INTEGRAL FIN	ONE 3/4" BY 6" HIGH	FIRST PANEL FROM LEFT, AT BOTTOM OF THE INTERLOCK STILE
SELF ADHESIVE PILE PAD WITH MULTI INTEGRAL FIN	ONE 3/4" BY 6 1/4" HIGH	MOVING PANELS AT BOTTOM OF THE INTERLOCK STILES

REAR FIXED PANEL INSTALLATION TO FRAME JAMB

1. FIRST PANEL FROM LEFT SHALL BE FASTENED TO THE LEFT FRAME JAMB THRU THE SILL REAR FLANGE USING A SINGLE ROW No.10 BY 1 1/4" LONG PH SMS LOCATED 3" AND 101 5/8" FROM BOTTOM.
2. ONE 1" LONG RUBBER GUIDE (40) SHALL BE INSTALLED AT EACH END OF EACH FIXED PANEL BOTTOM RAIL AND ONE AT MID SPAN, FASTENED USING ONE No.10 BY 1" FH SMS.
3. ONE 1.010" BY 2.010" BY 0.062" THICK BY FULL LENGTH ALUMINUM INSTALLATION ANGLE COVER (ITEM No.13A) SHALL BE INSTALLED AT EACH FRAME JAMB, SECURED WITH SILICONE.

ADDITIONAL INFORMATION ON OPERABLE PANELS

1. ONE 1" BY 0.075" THICK BY 45" LONG ALUMINUM PLATE SHALL BE INSTALLED AT EACH MOVING PANEL BOTTOM RAIL ON THE EXTERIOR, SECURED WITH SILICONE.

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

**SERIES LAZH 13000 HIGH IMPACT REINFORCED
SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS**

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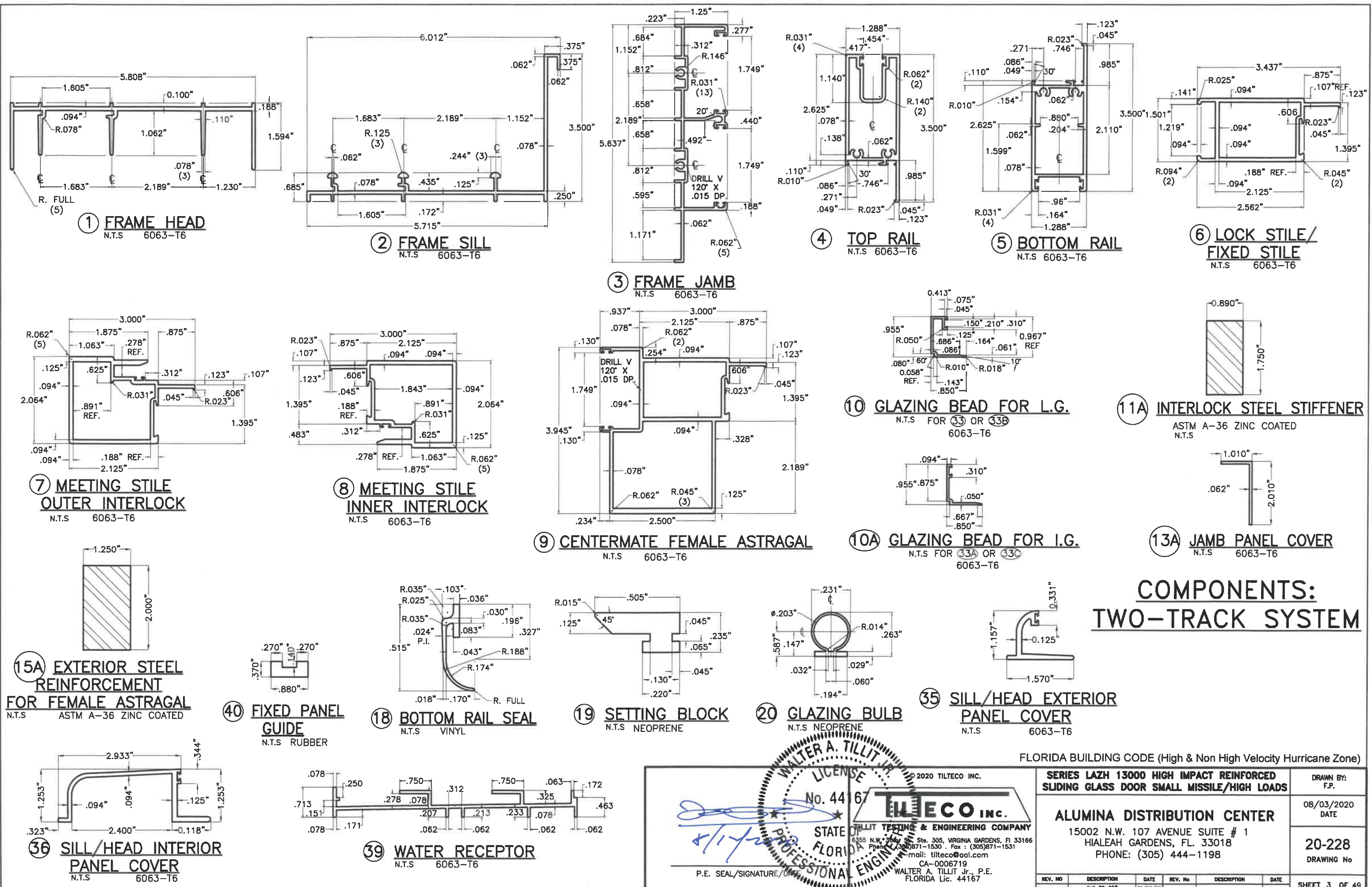
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08/03/2020
DATE

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DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 2
1	OLD 20-003	06/03/20	2			

SHEET 2 OF 49



COMPONENTS: TWO-TRACK SYSTEM

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

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

P.E. SEAL/SIGNATURE/DATE

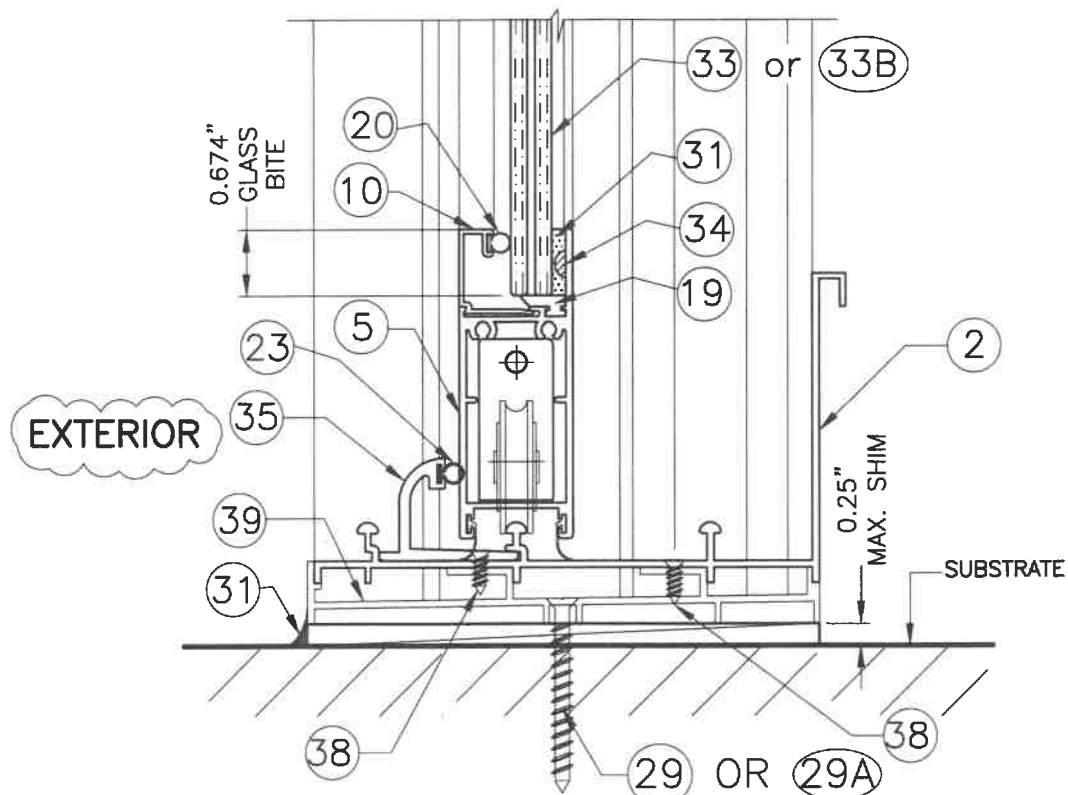
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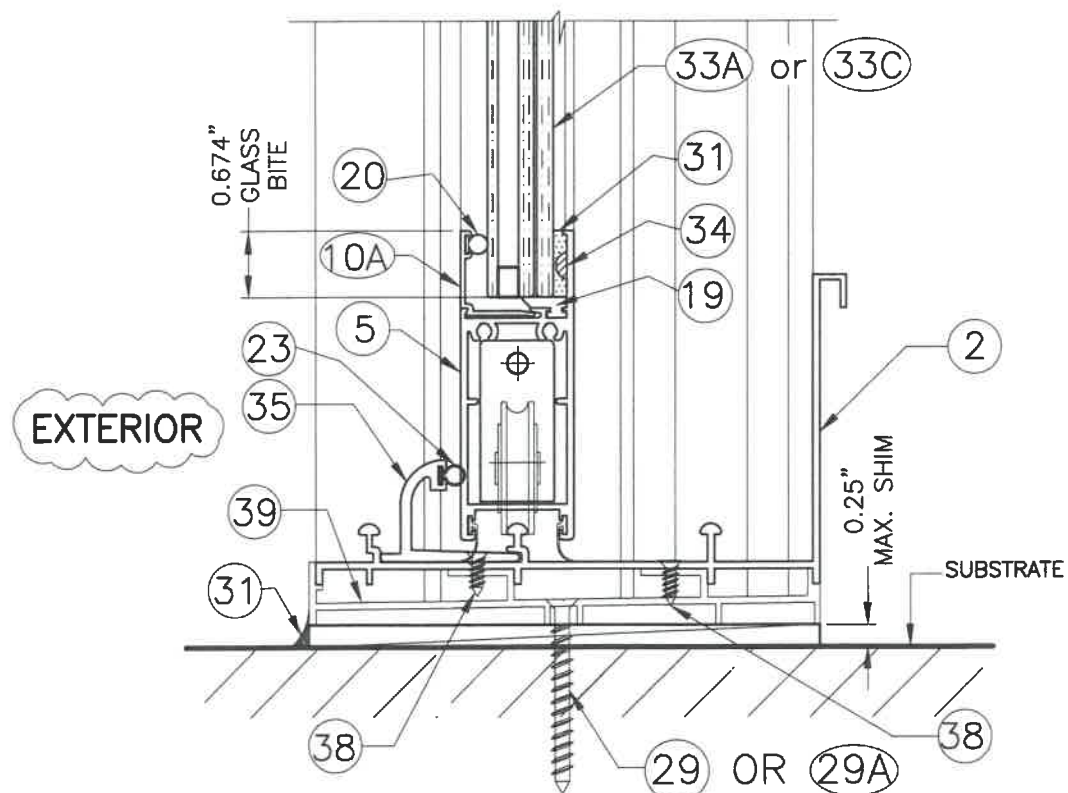
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SERIES LAZH 13000 HIGH IMPACT REINFORCED SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS						DRAWN BY: F.P.
ALUMINA DISTRIBUTION CENTER						08/03/2020 DATE
15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL. 33018 PHONE: (305) 444-1198						20-228 DRAWING No
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 3 OF 49
1	OLD 20-003	08/03/20	2			



GLAZING DETAIL AT (33) OR (33B)
SCALE: 1/2"=1"



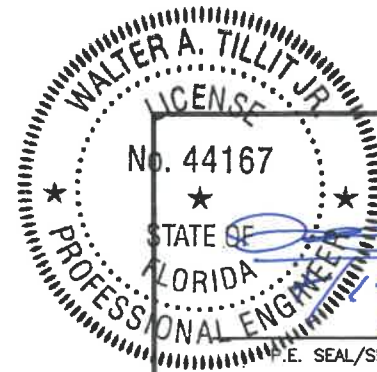
GLAZING DETAIL AT (33A) OR (33C)
SCALE: 1/2"=1"

GLASS SCHEDULE:

MAX. A.S.D. DESIGN PRESSURE RATING * (p.s.f.)	MAX. DOOR FRAME HEIGHT	REQUIRED GLASS TYPE TO BE USED
+100.0, -100.0	115"	(33) OR (33A)
+100.0, -110.0	113"	(33B) OR (33C)
+100.0, -115.0	111"	(33B) OR (33C)
+100.0, -119.0	109"	(33B) OR (33C)
+100.0, -128.0	107"	(33B) OR (33C)
+100.0, -137.0	105"	(33B) OR (33C)

* SEE SHEET 22 FOR MAX. D.L.O. & SASH DIMENSIONS FOR DOOR

TWO TRACK SYSTEM



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

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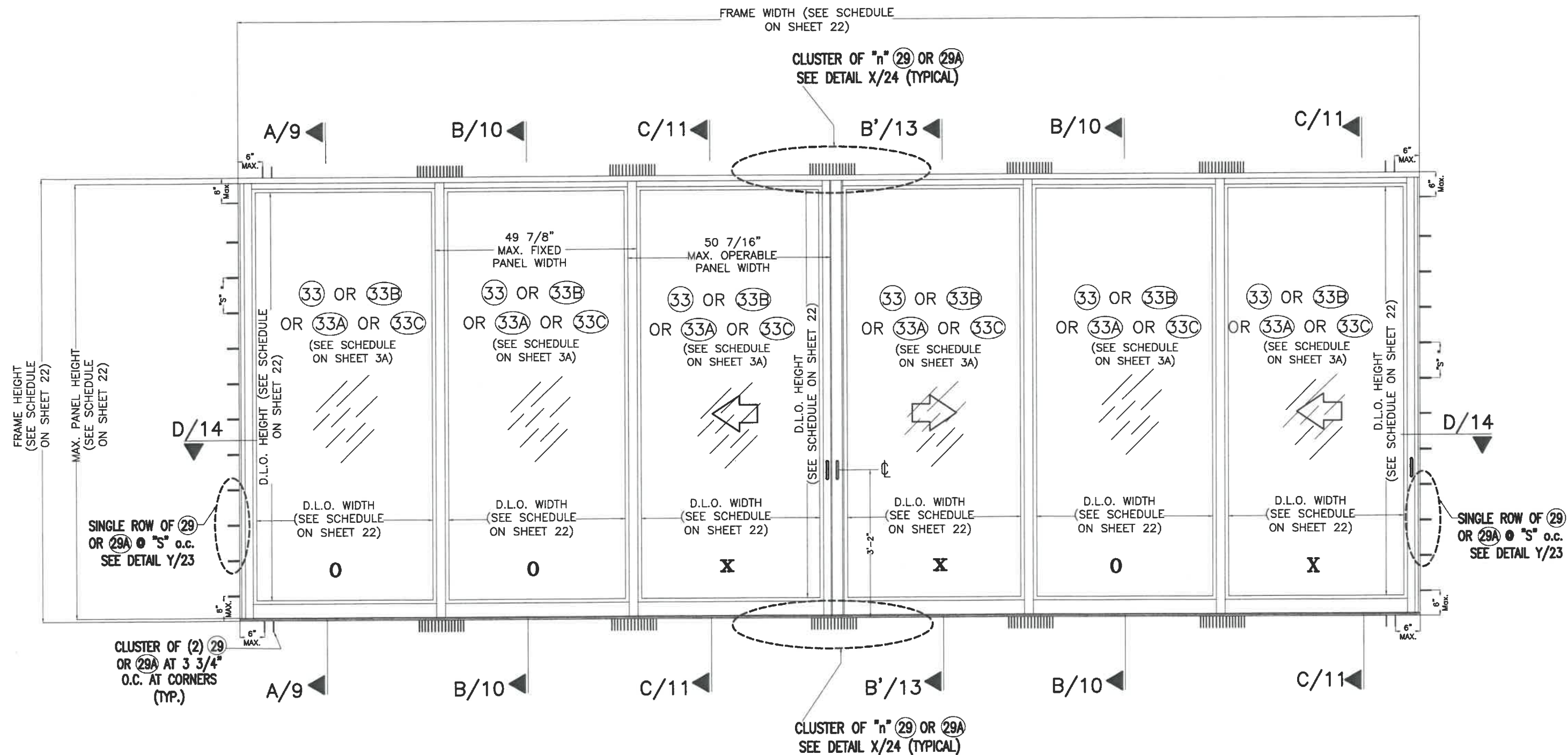
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08/03/2020
DATE

20-228
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-003	08/03/20	2		

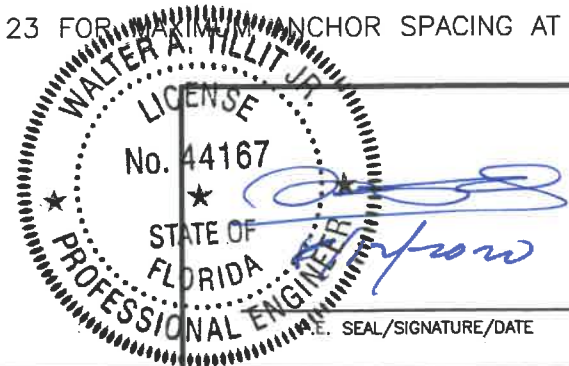
SHEET 3A OF 49



TYPICAL EXTERIOR ELEVATION: TWO-TRACK DOOR (OOXXOX)

SCALE: 1/2" = 1'-0"

* SEE SHEET 23 FOR MAXIMUM ANCHOR SPACING AT JAMBS



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

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

**SERIES LAZH 13000 HIGH IMPACT REINFORCED
 SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS**

ALUMINA DISTRIBUTION CENTER
 15002 N.W. 107 AVENUE SUITE # 1
 HIALEAH GARDENS, FL. 33018
 PHONE: (305) 444-1198

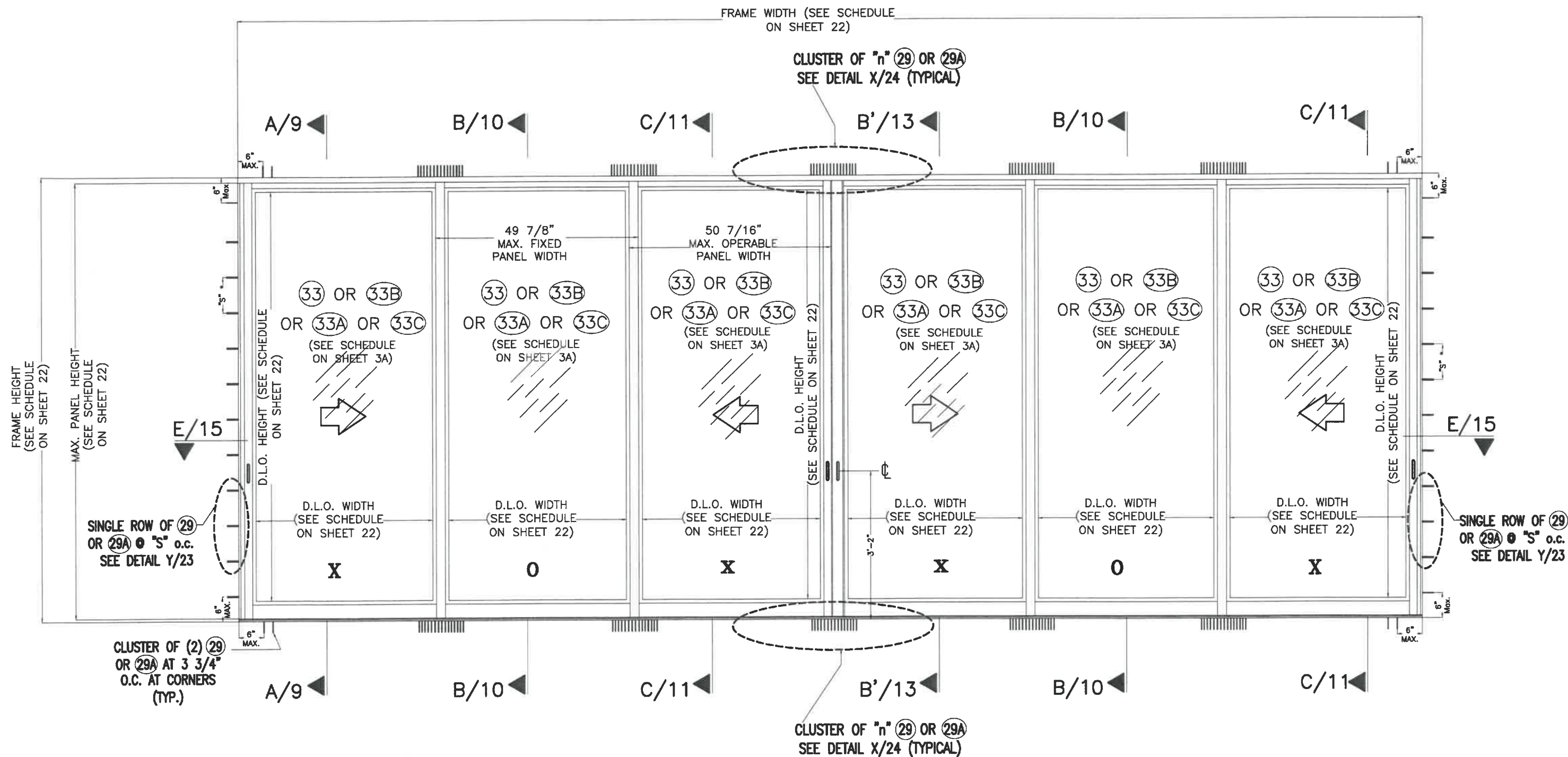
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 F.P.

08/03/2020
 DATE

20-228
 DRAWING No

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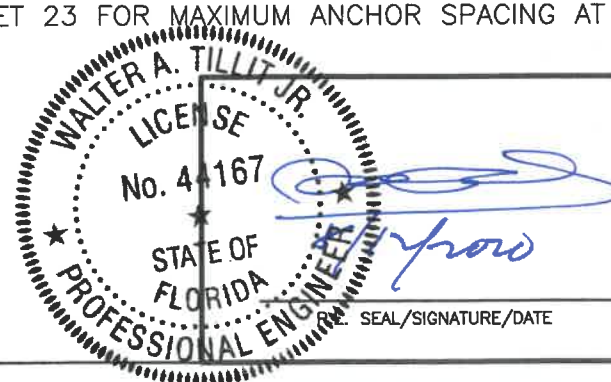
SHEET 4 OF 49



TYPICAL EXTERIOR ELEVATION: TWO-TRACK DOOR (XOXXOX)

SCALE: 1/2" = 1'-0"

* SEE SHEET 23 FOR MAXIMUM ANCHOR SPACING AT JAMBS



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SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS**

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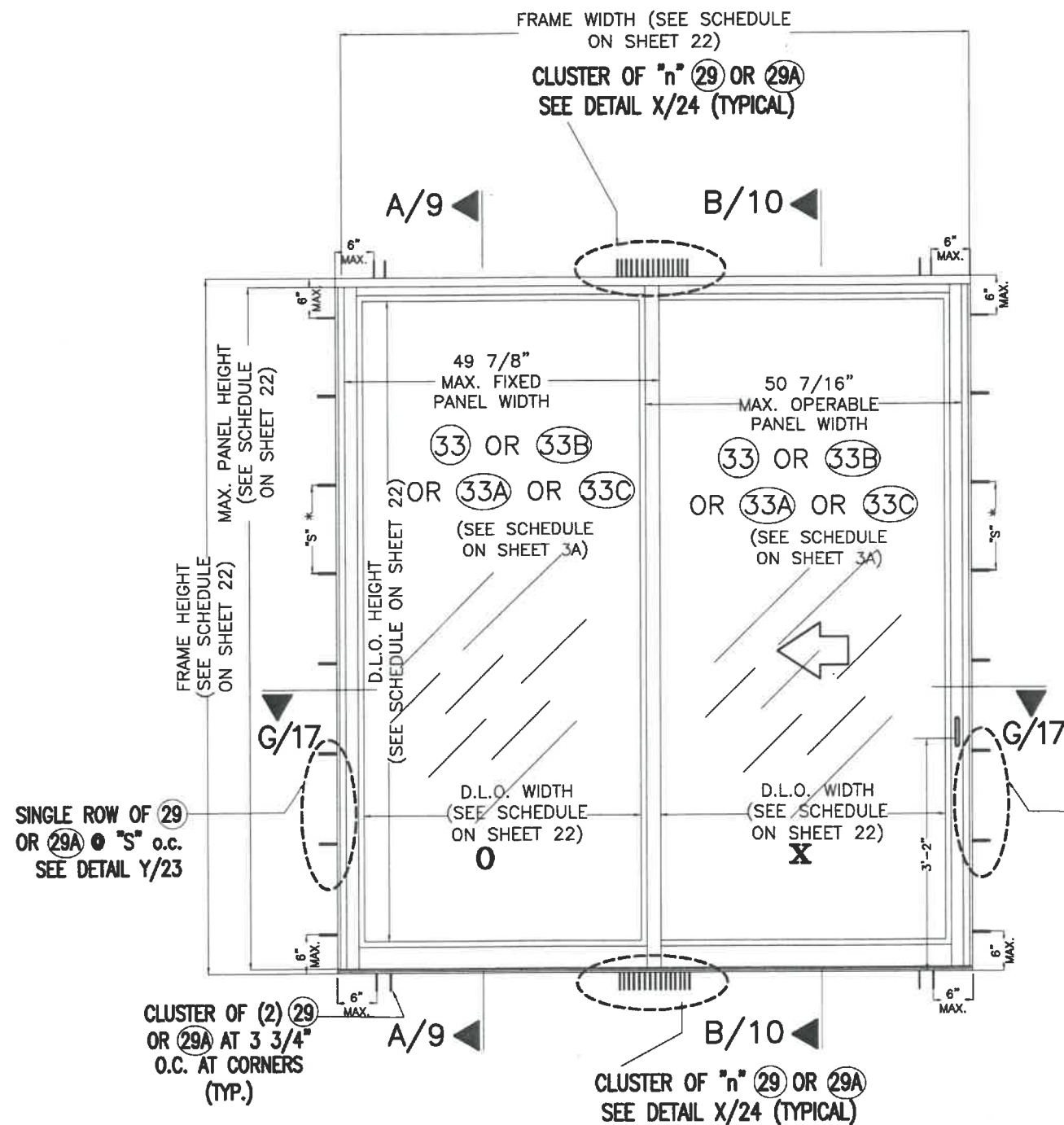
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DRAWING No

SHEET 5 OF 49

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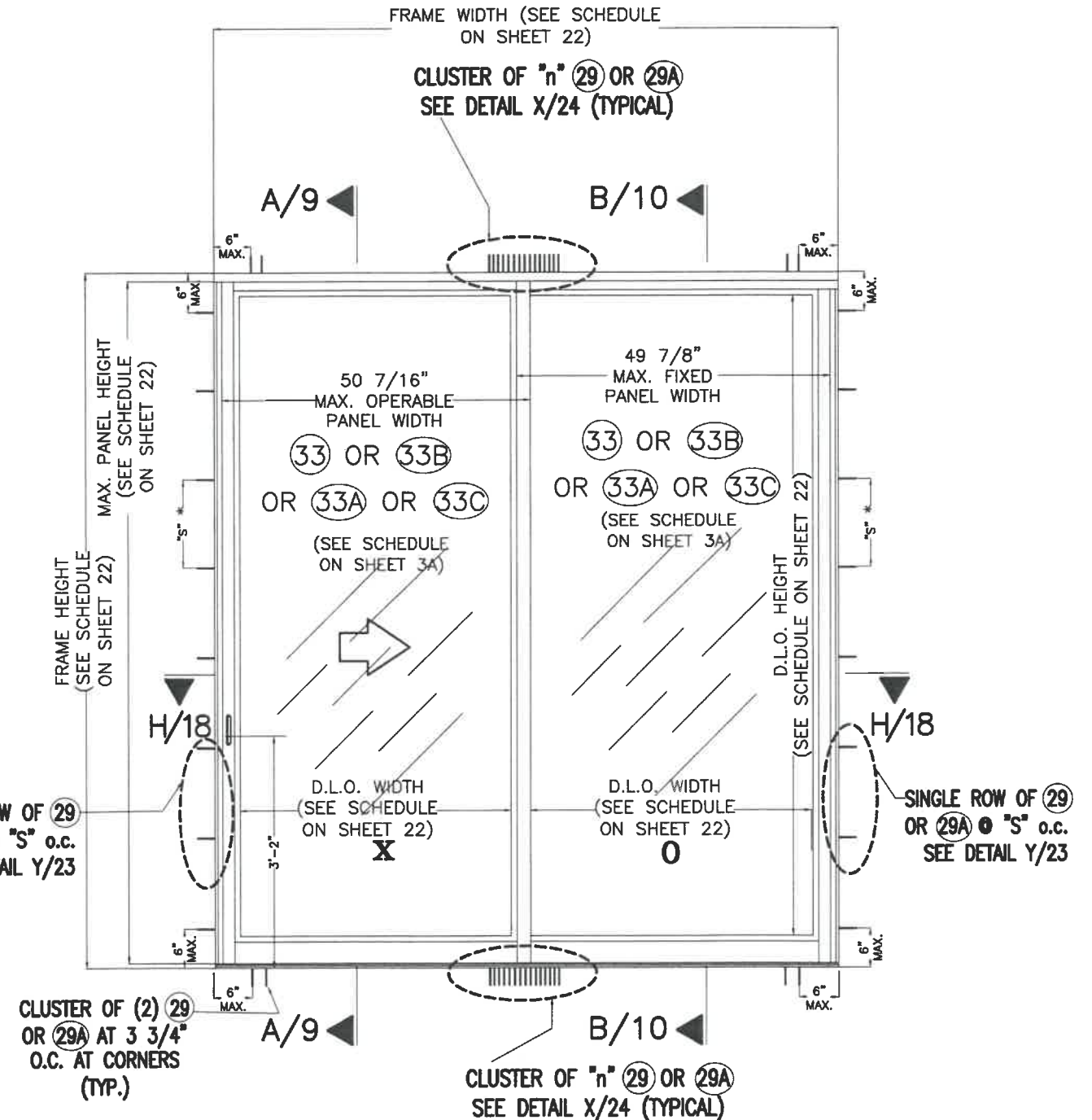
ET 6 OF 49



TYPICAL EXTERIOR ELEVATION: TWO-TRACK DOOR (OX)

SCALE: 1/2" = 1'-0"

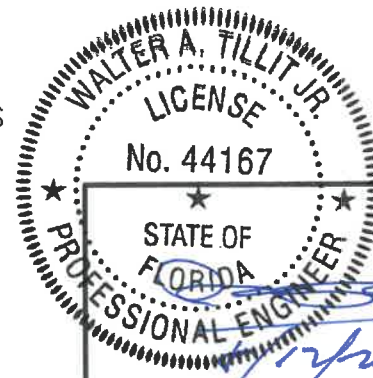
* SEE SHEET 23 FOR MAXIMUM ANCHOR SPACING AT JAMBS



TYPICAL EXTERIOR ELEVATION: TWO-TRACK DOOR (XO)

SCALE: 1/2" = 1'-0"

* SEE SHEET 23 FOR MAXIMUM ANCHOR SPACING AT JAMBS



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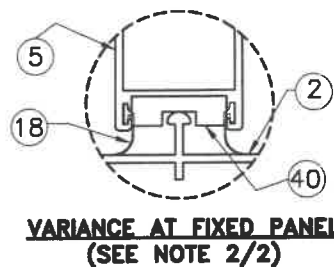
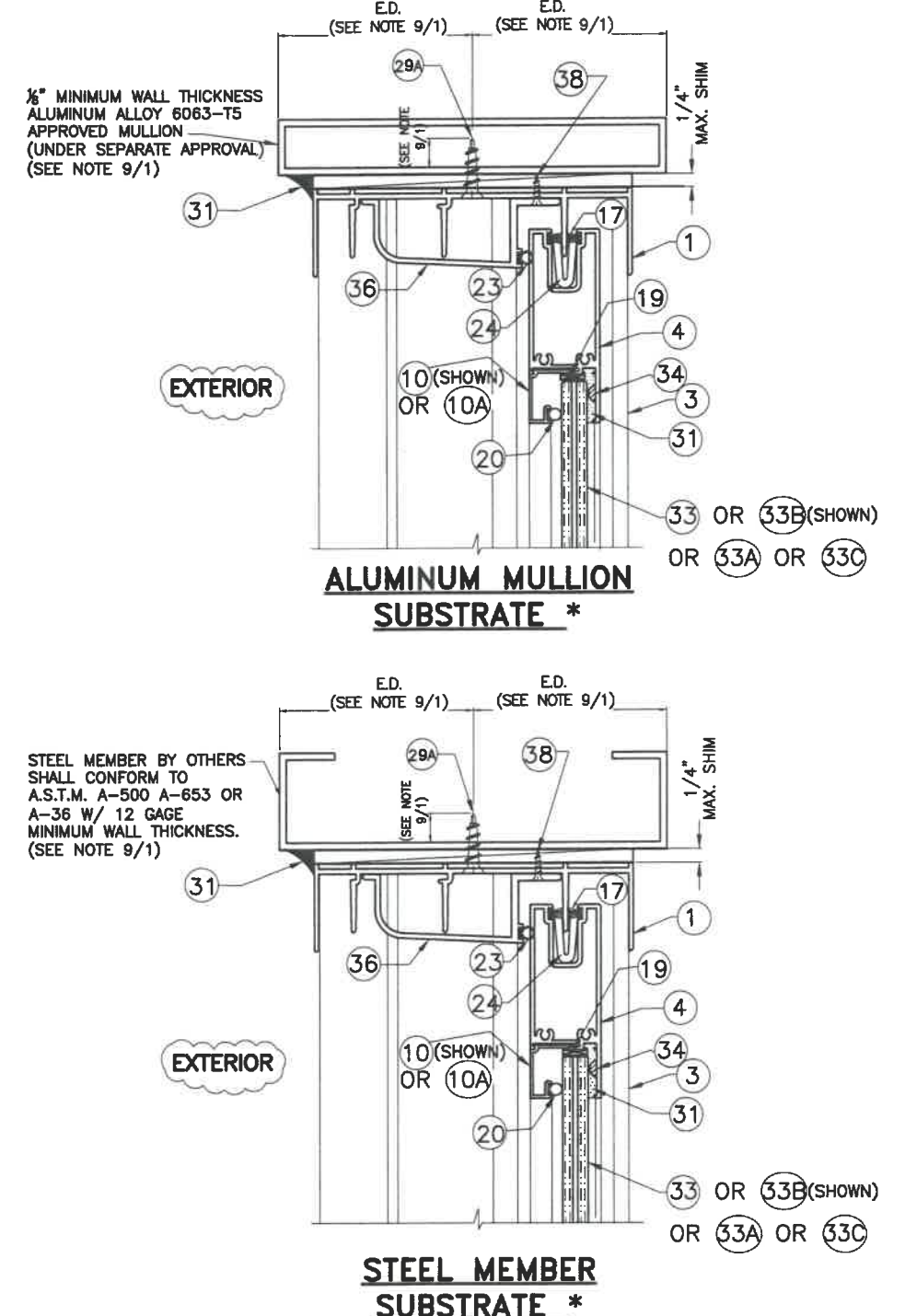
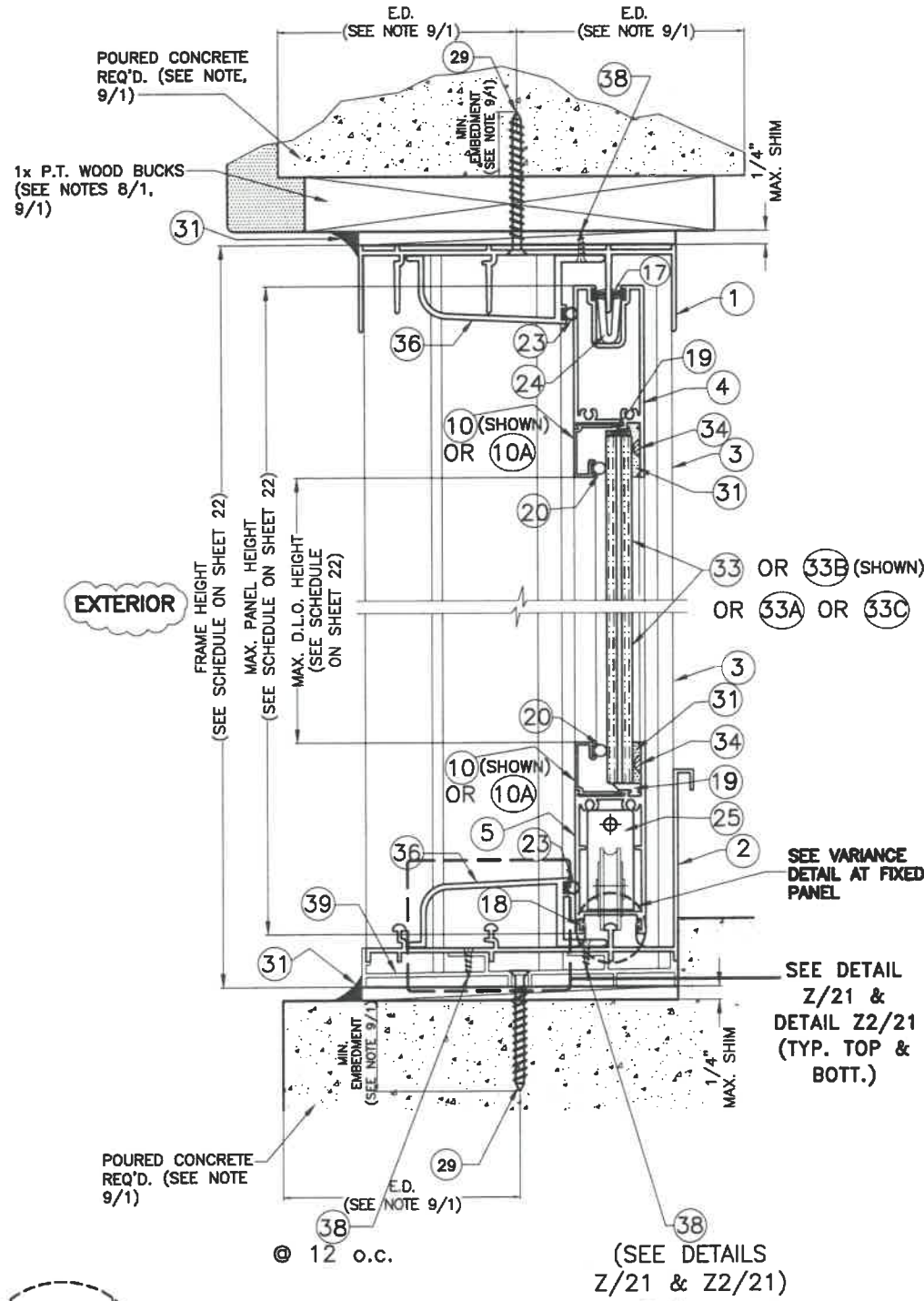
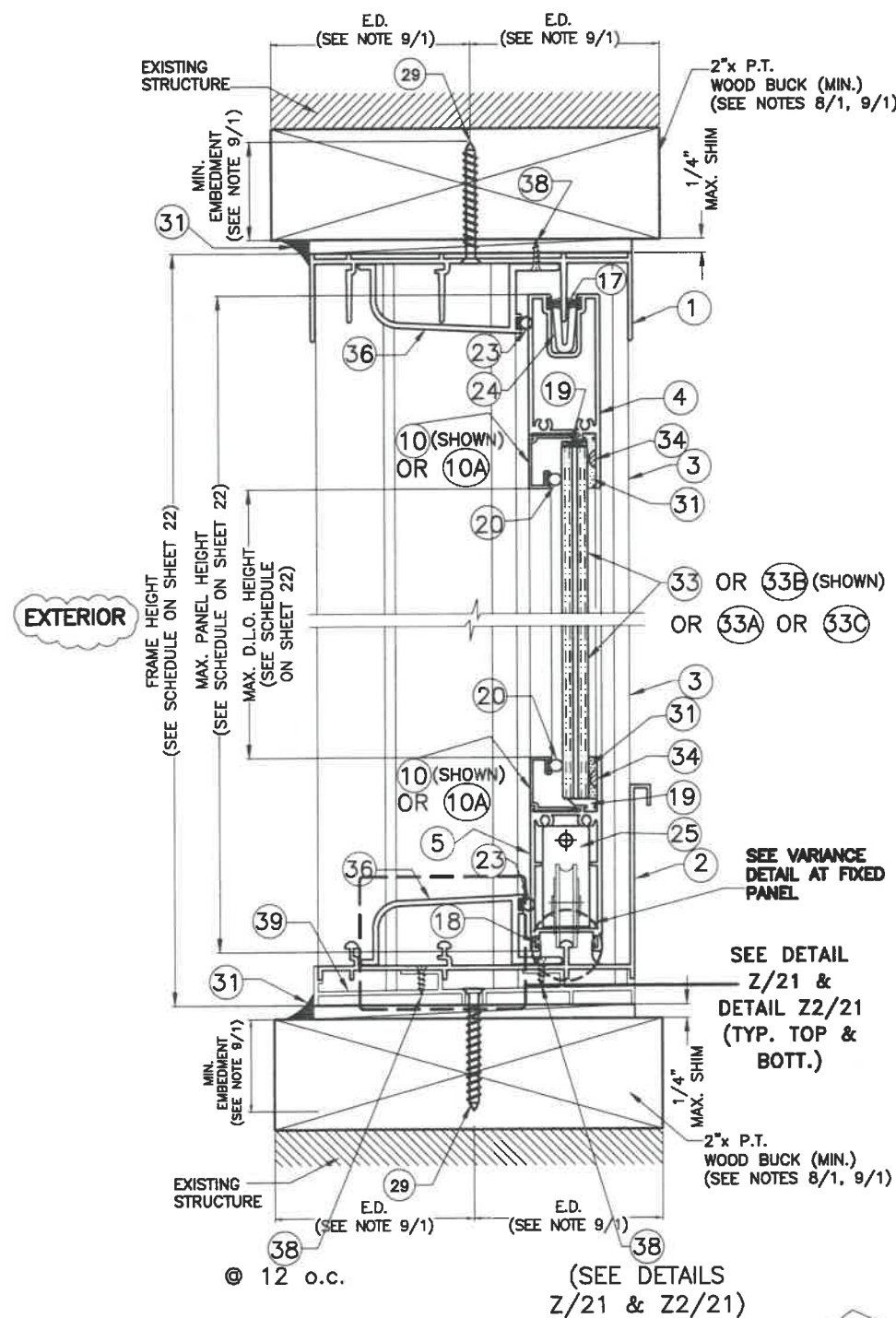
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DRAWING No

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SHEET 7 OF 49

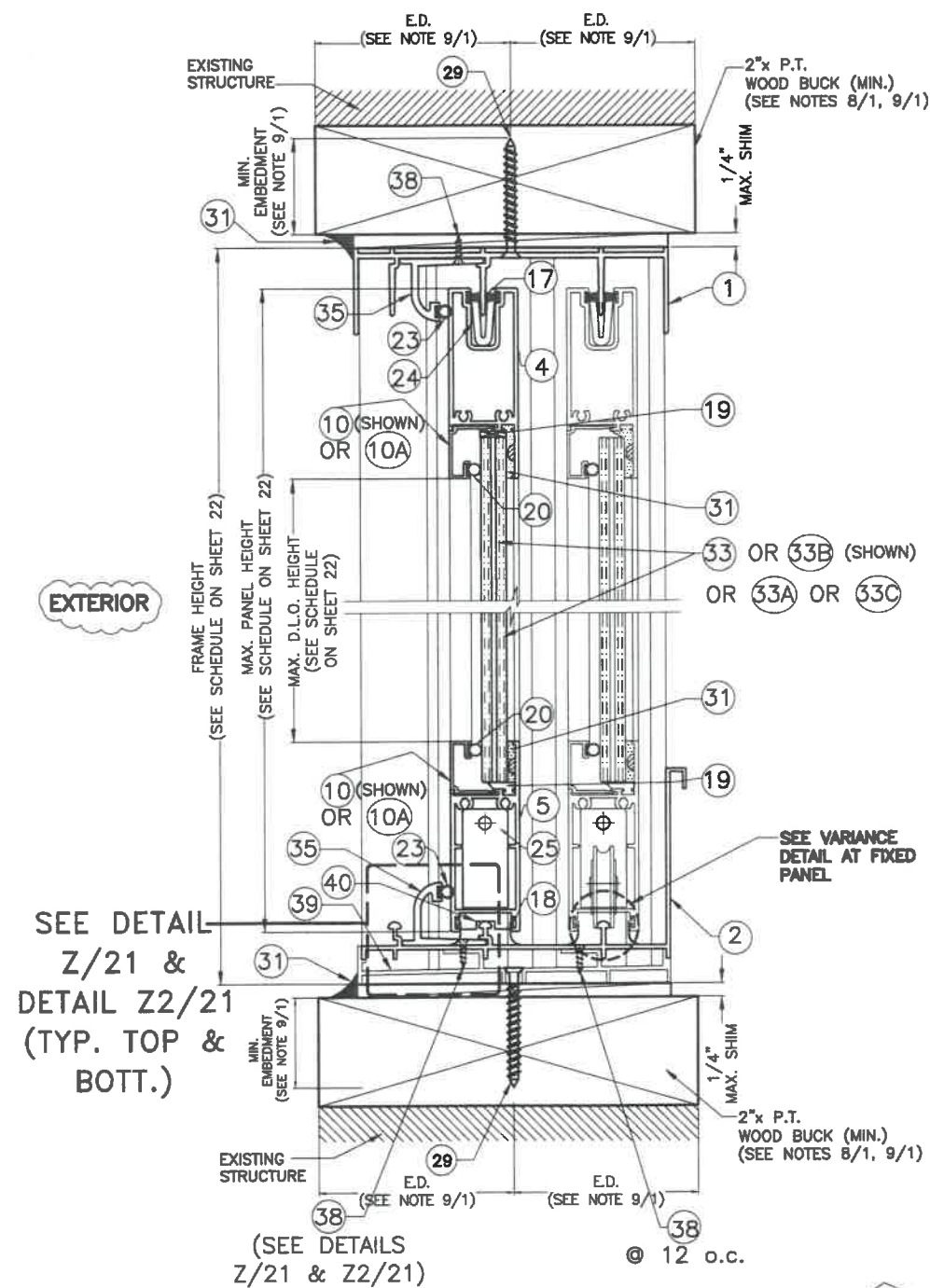


SECTION A-A (2) TRACK DOOR SCALE: 3/8"=1"

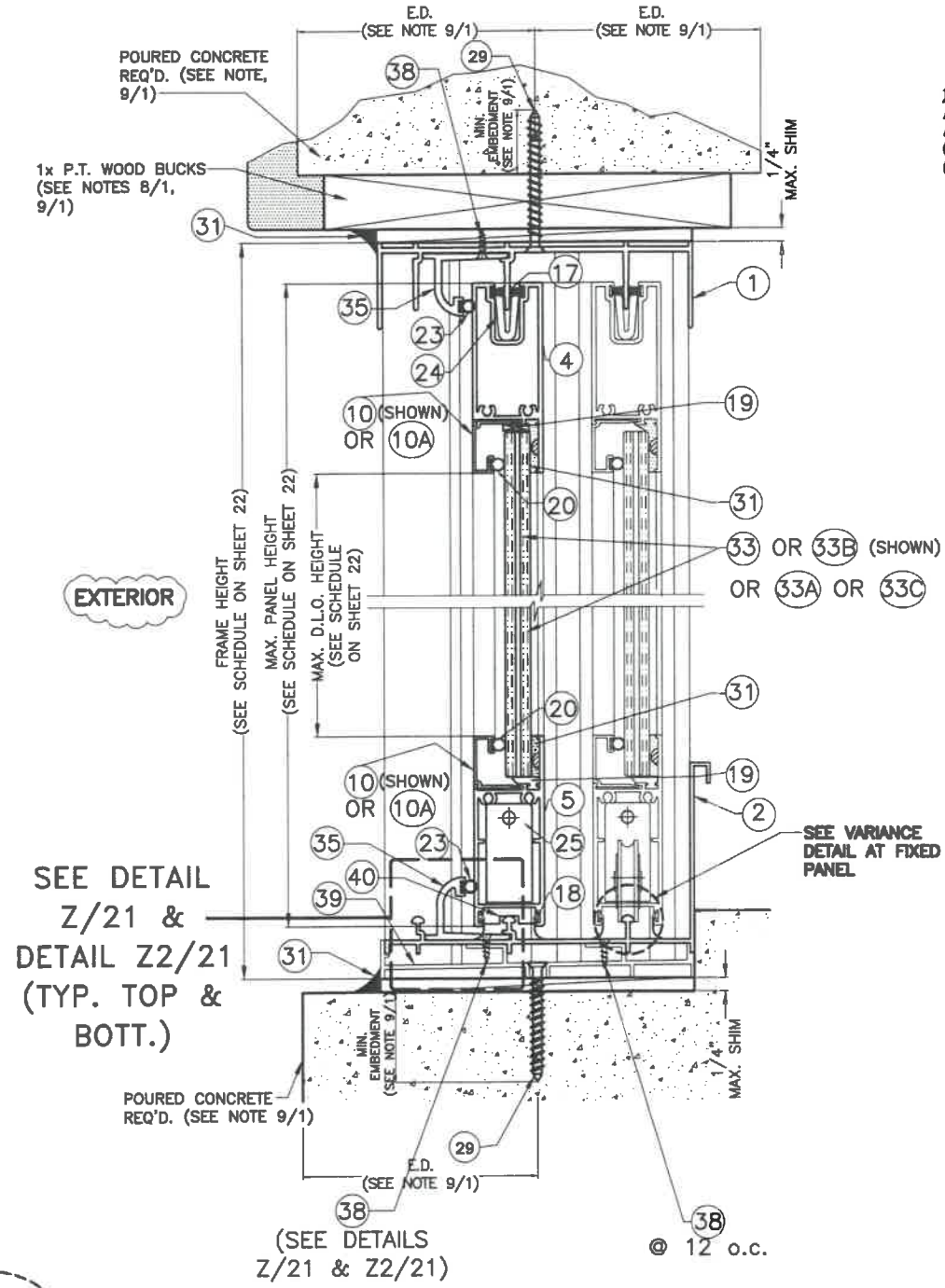
*NOTE: SIMILAR DETAIL IS APPLICABLE FOR SILL. STRUCTURAL ADEQUACY OF SUBSTRATE SHALL BE VERIFIED BY BUILDING OFFICIAL.

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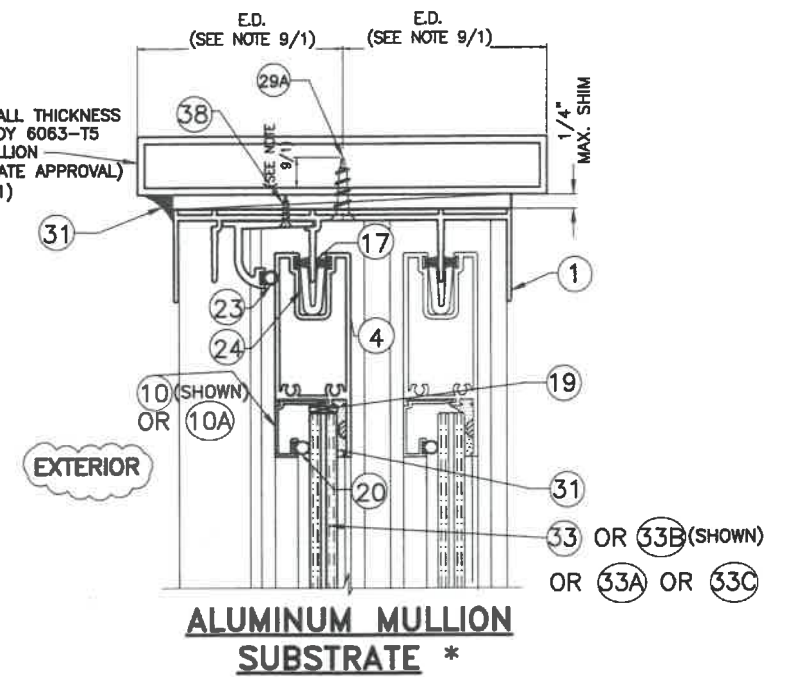
WALTER A. TILLIT JR. LICENSE No. 4416 STATE OF FLORIDA PROFESSIONAL ENGINEER P.E. SEAL/SIGNATURE/DATE		© 2020 TILTECO INC. TILTECO INC. TESTING & ENGINEERING COMPANY 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 . Fax: (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. 44167		SERIES LAZH 13000 HIGH IMPACT REINFORCED SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS ALUMINA DISTRIBUTION CENTER 15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL. 33018 PHONE: (305) 444-1198		DRAWN BY: F.P. 08/03/2020 DATE 20-228 DRAWING No
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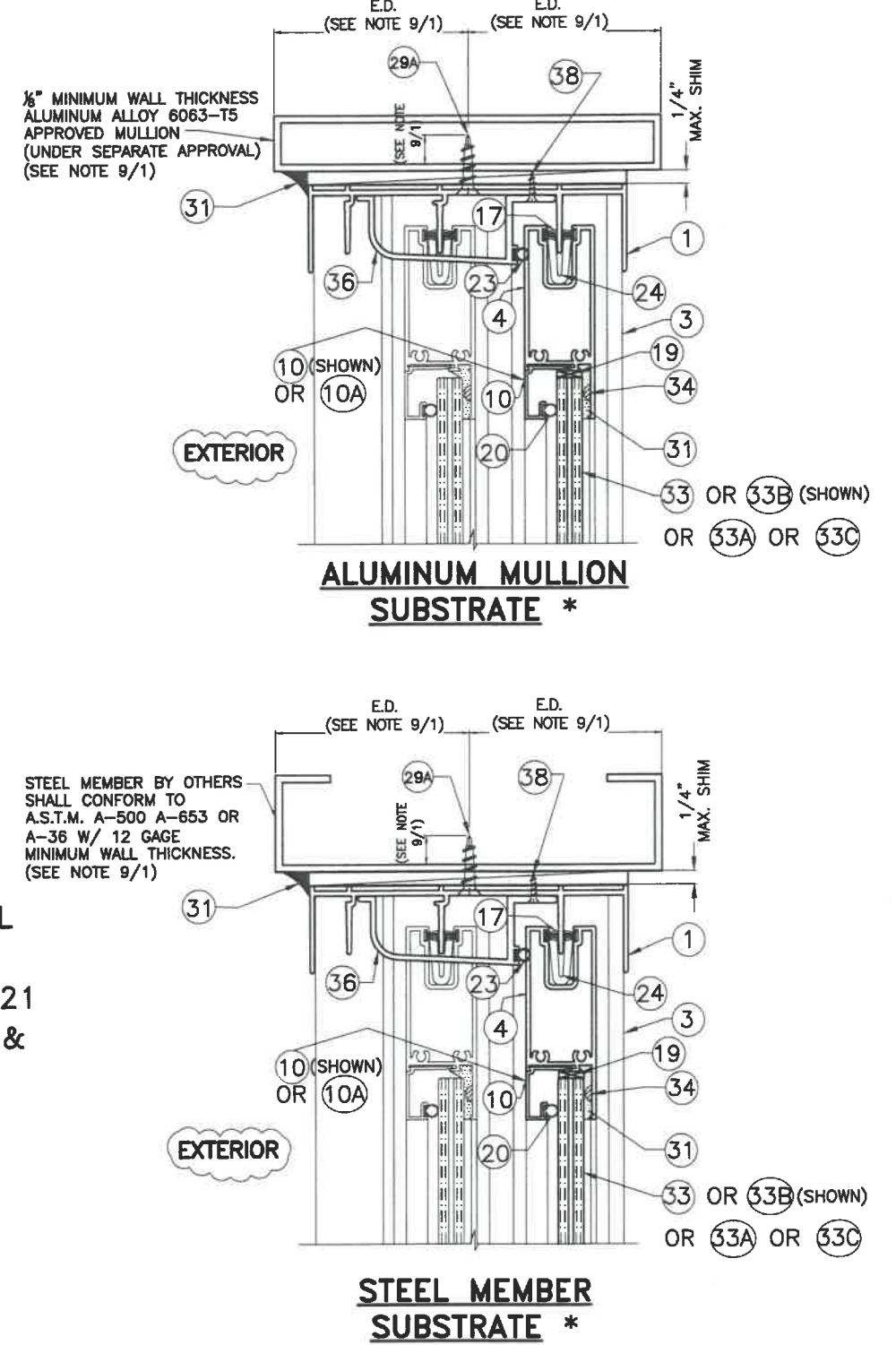
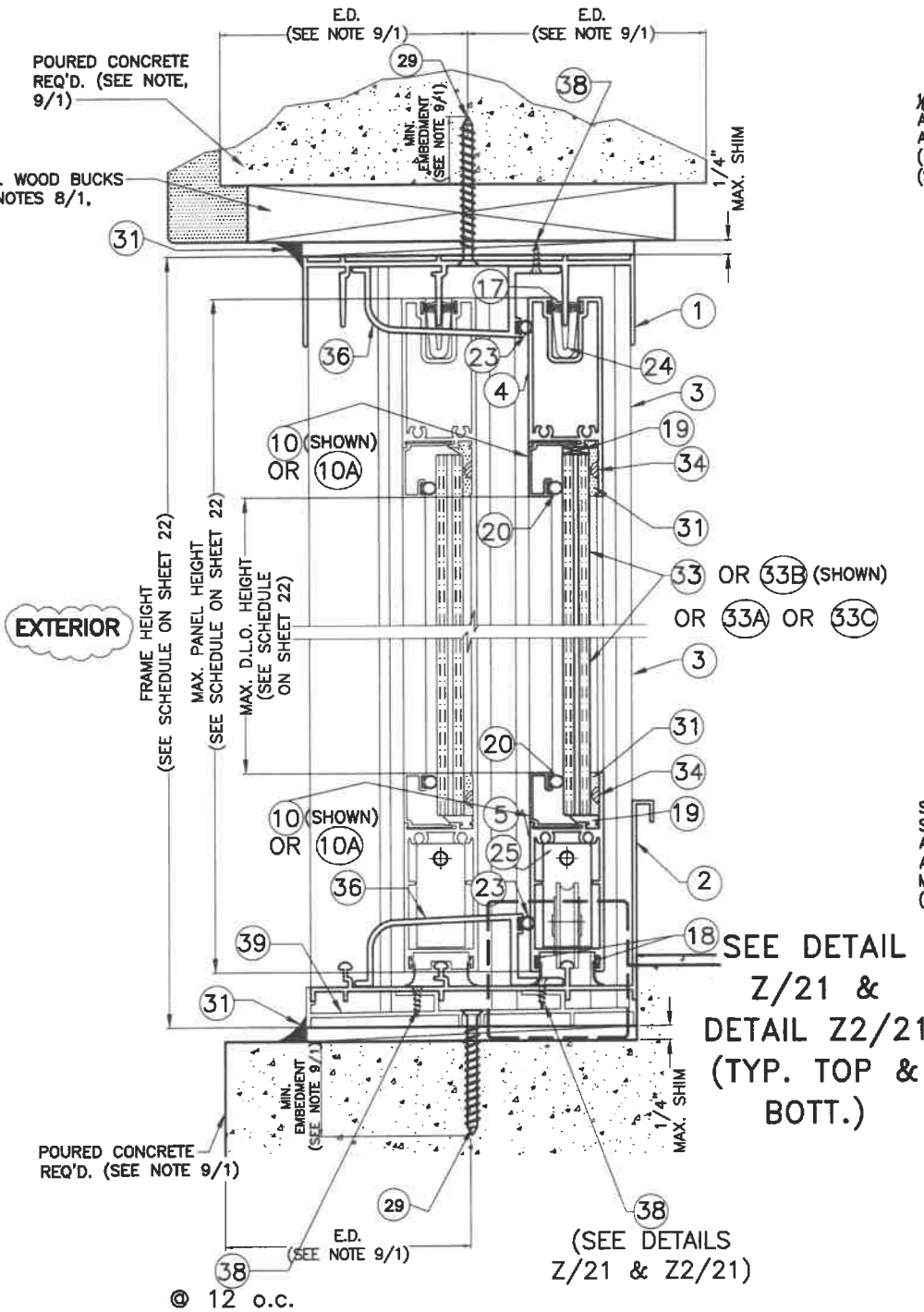
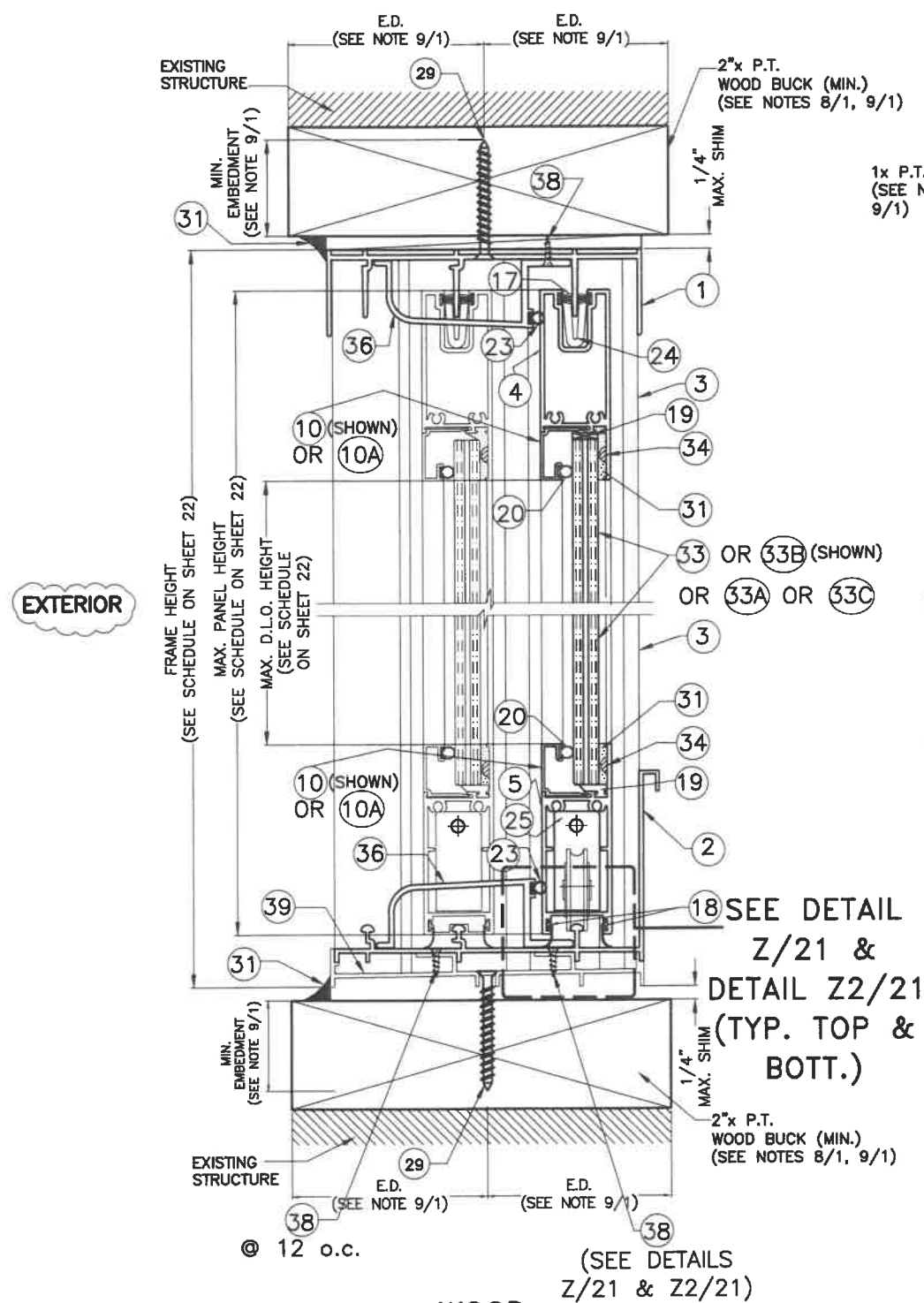


**WOOD
SUBSTRATE**



**POURED CONCRETE/
SUBSTRATE**





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SECTION C-C (2) TRACK DOOR SCALE: 3/8"=1"

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STATE OF FLORIDA

PROFESSIONAL ENGINEER

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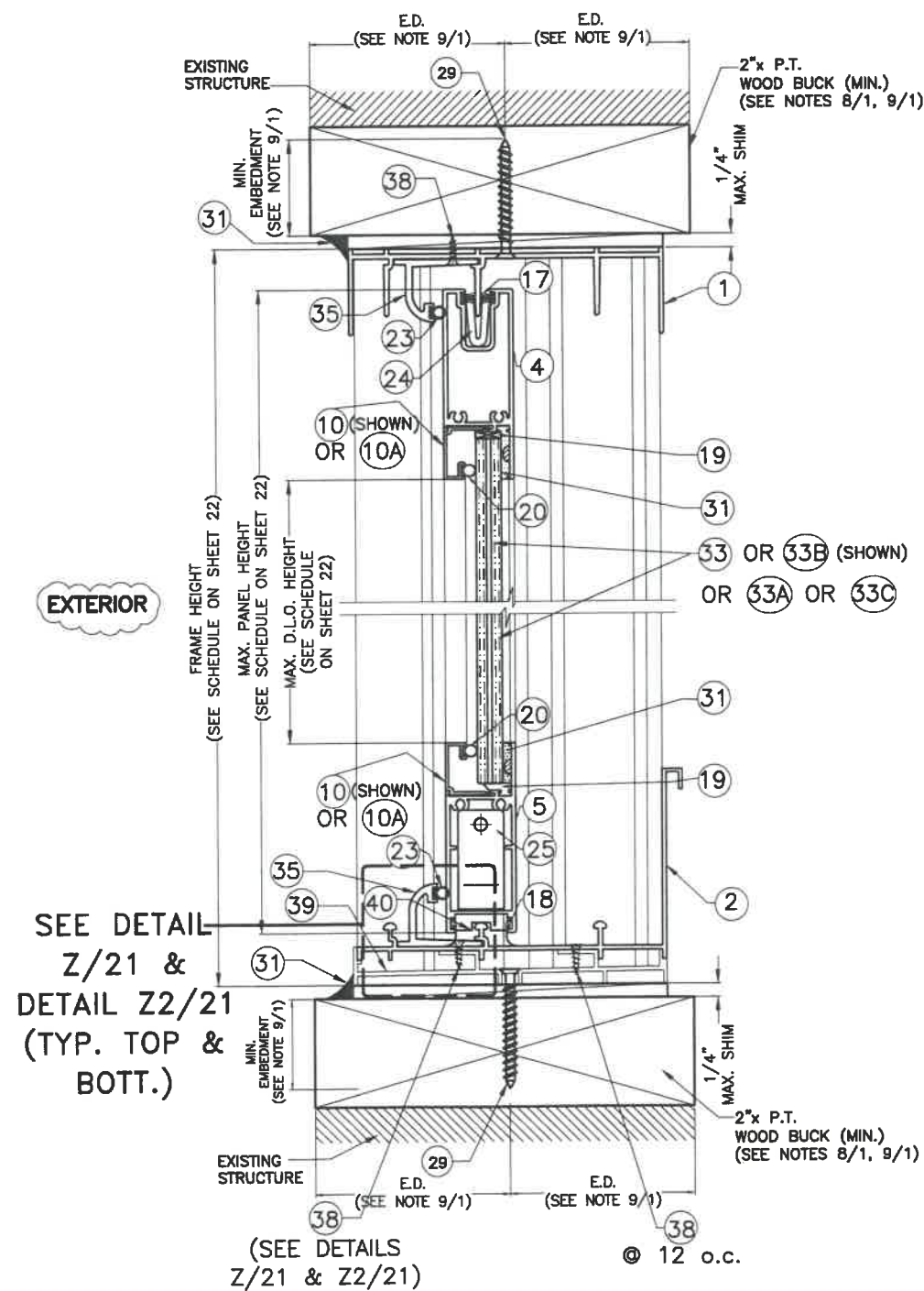
e-mail: tilteco@aol.com

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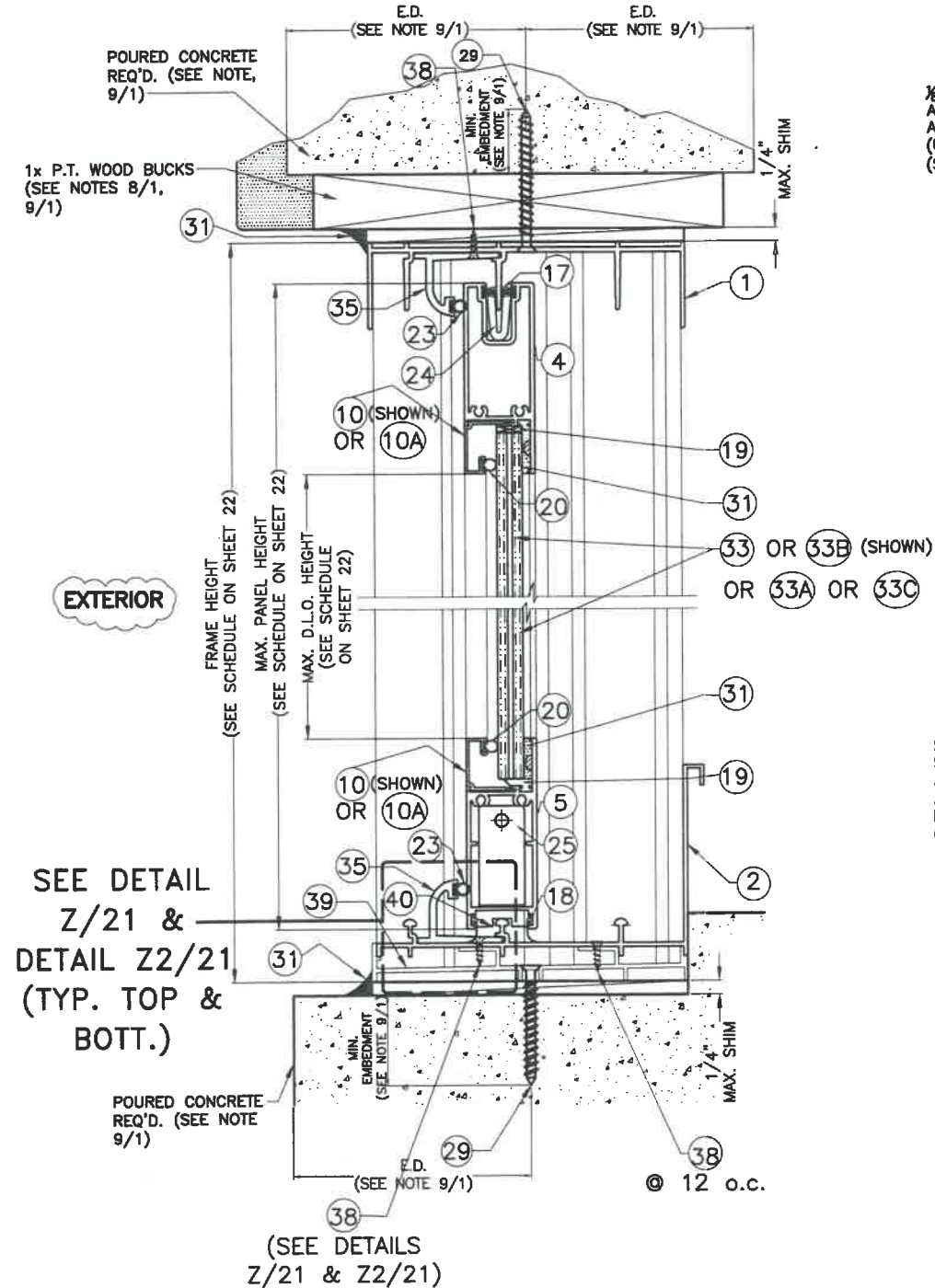
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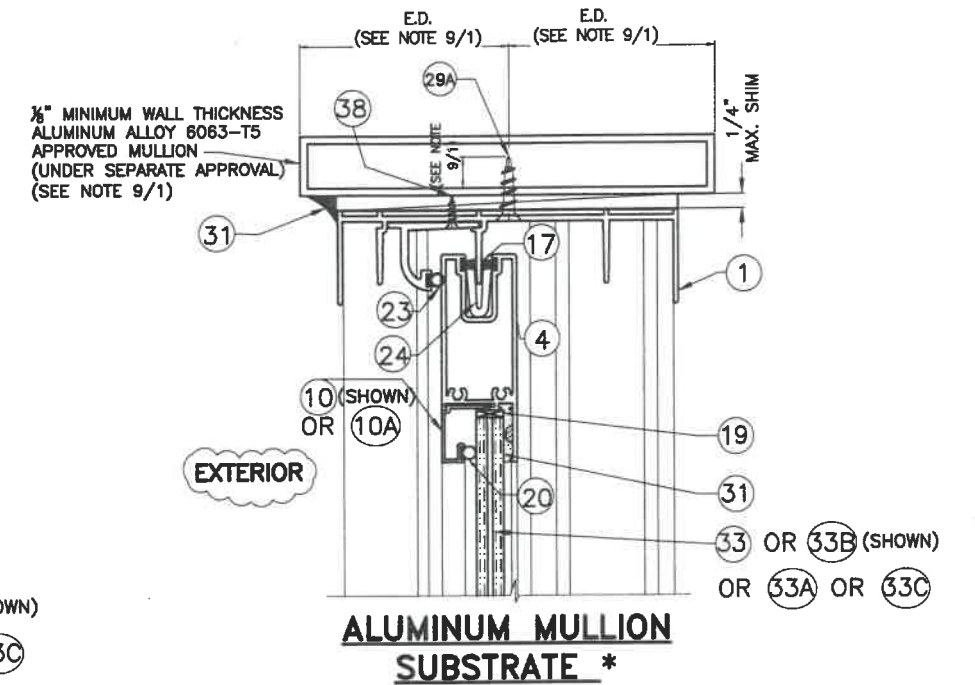
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ALUMINA DISTRIBUTION CENTER			08/03/2020 DATE		
			20-228 DRAWING No		
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SHEET 11 OF 49					



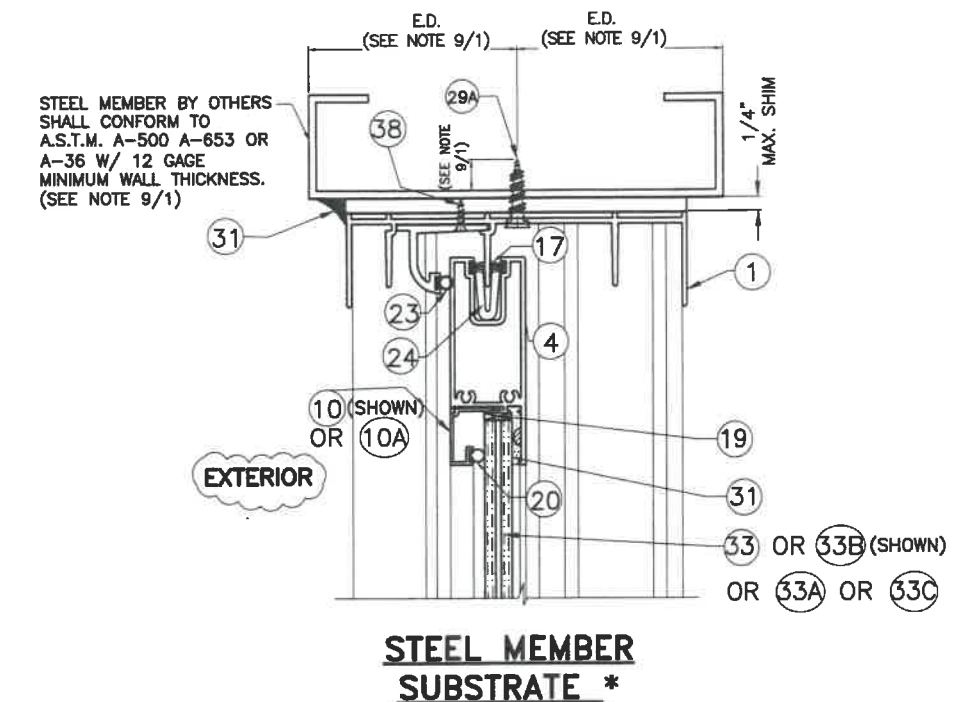
WOOD SUBSTRATE



POURED CONCRETE/ SUBSTRATE



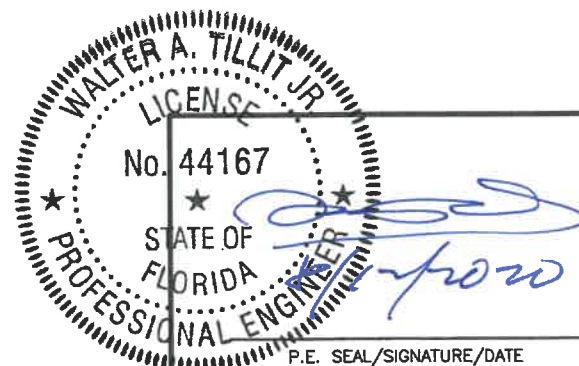
ALUMINUM MULLION SUBSTRATE *



STEEL MEMBER SUBSTRATE *

*NOTE: SIMILAR DETAIL IS APPLICABLE FOR SILL. STRUCTURAL ADEQUACY OF SUBSTRATE SHALL BE VERIFIED BY BUILDING OFFICIAL.

SECTION A'-A'
(2) TRACK DOOR
SCALE: 3/8"=1"



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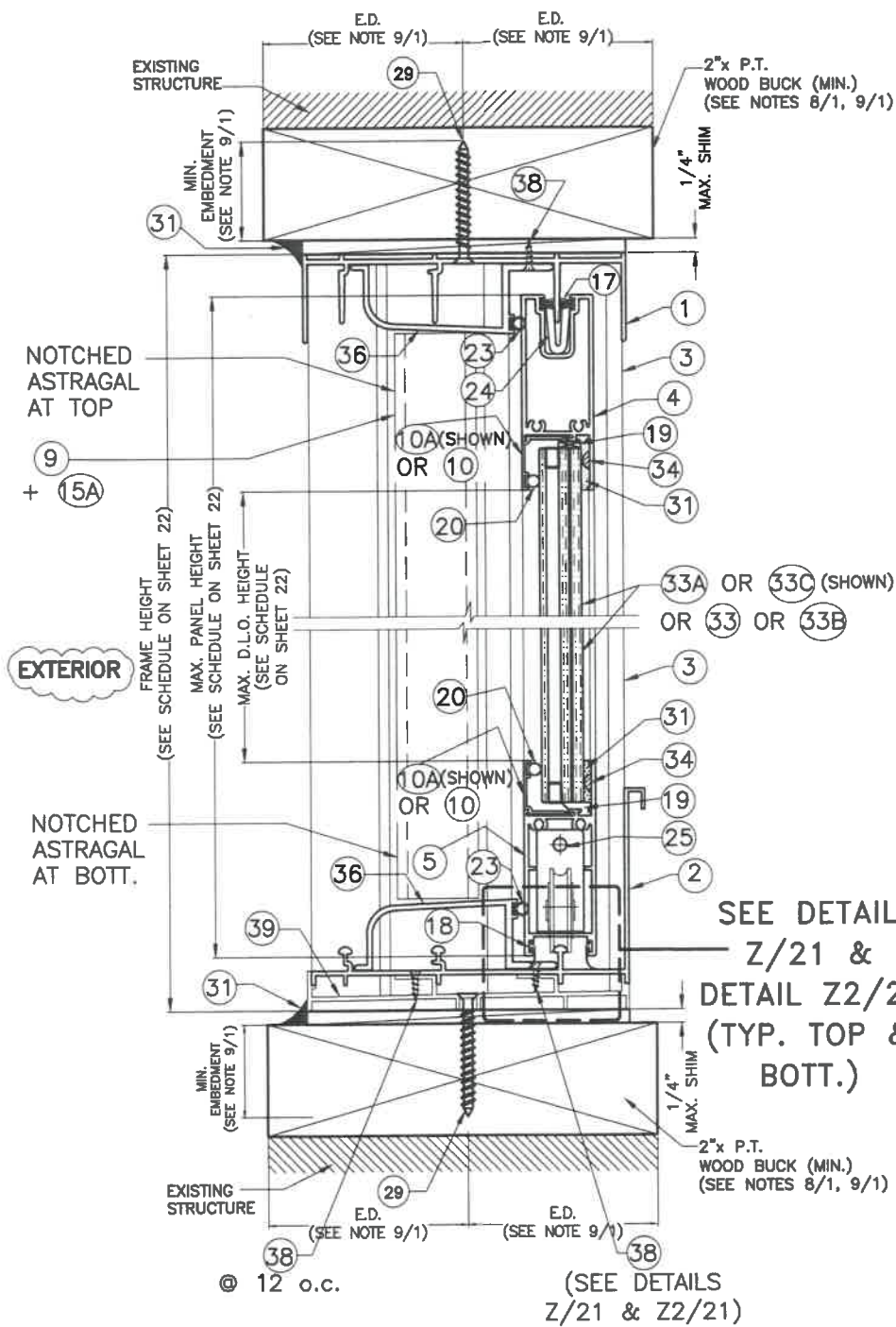
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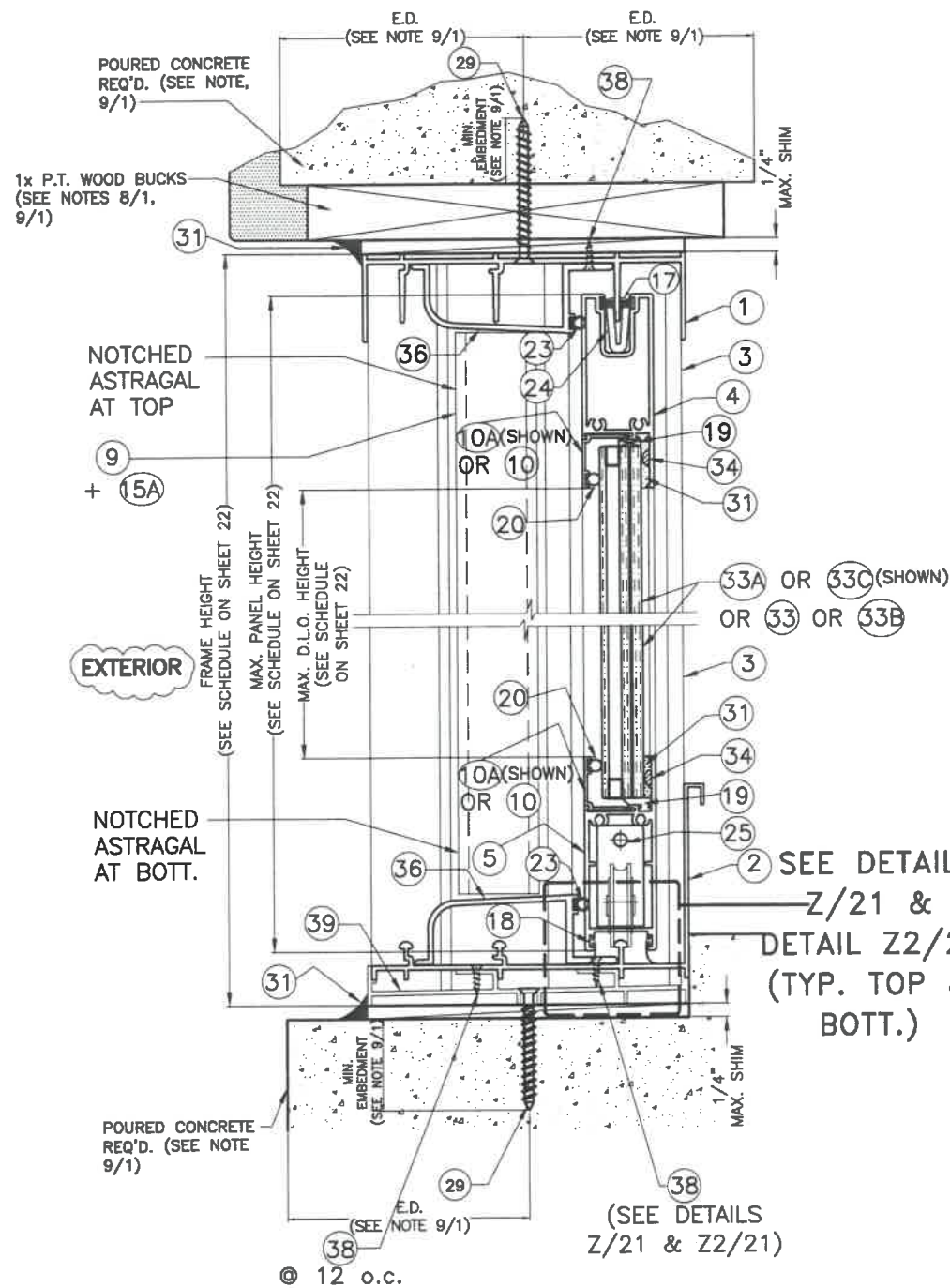
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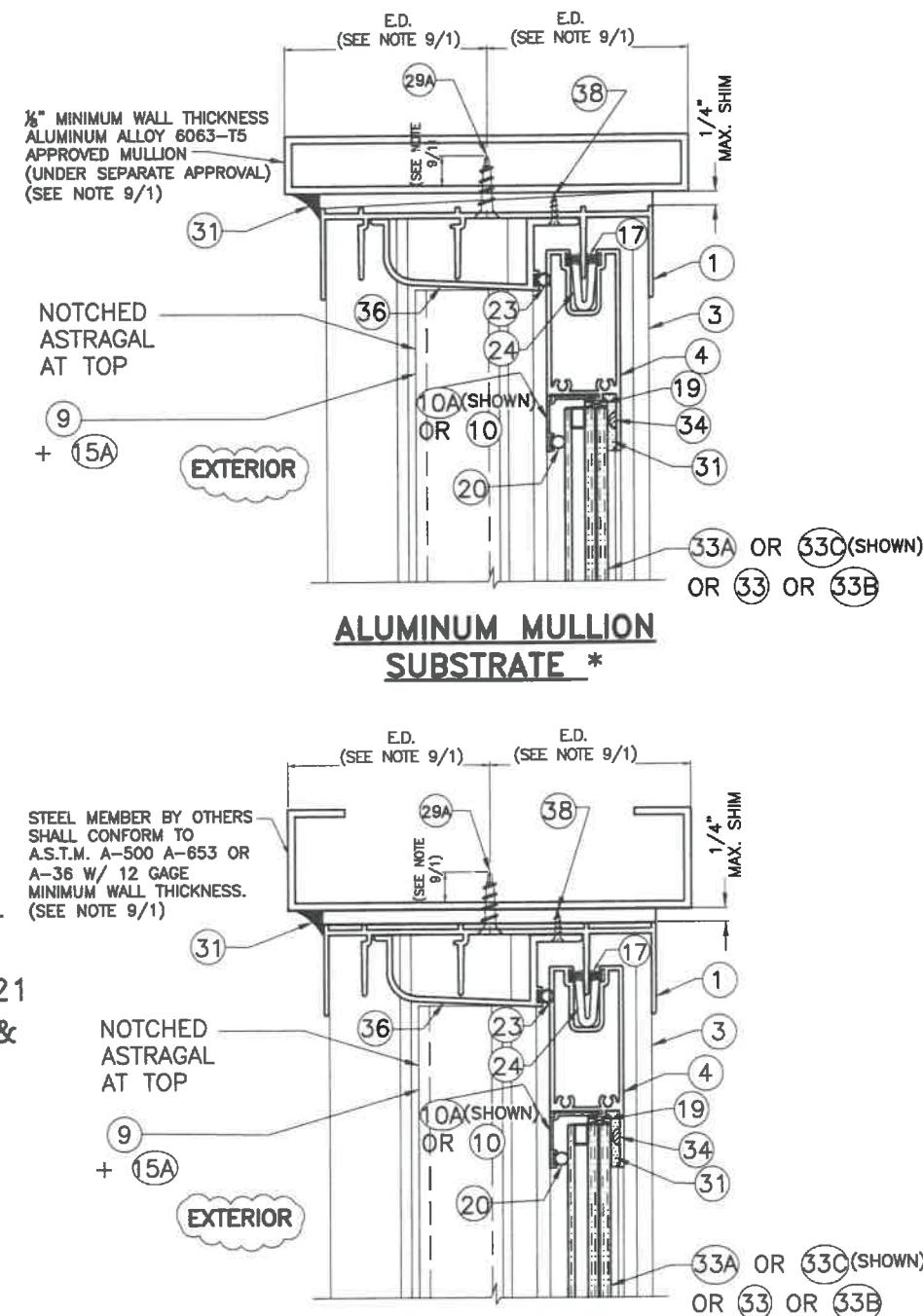


**WOOD
SUBSTRATE**

SECTION B'-B'
(2) TRACK DOOR
SCALE: 3/8"=1"



**POURED CONCRETE/
SUBSTRATE**



**ALUMINUM MULLION
SUBSTRATE ***

*NOTE: SIMILAR DETAIL IS APPLICABLE FOR SILL. STRUCTURAL ADEQUACY OF SUBSTRATE SHALL BE VERIFIED BY BUILDING OFFICIAL.

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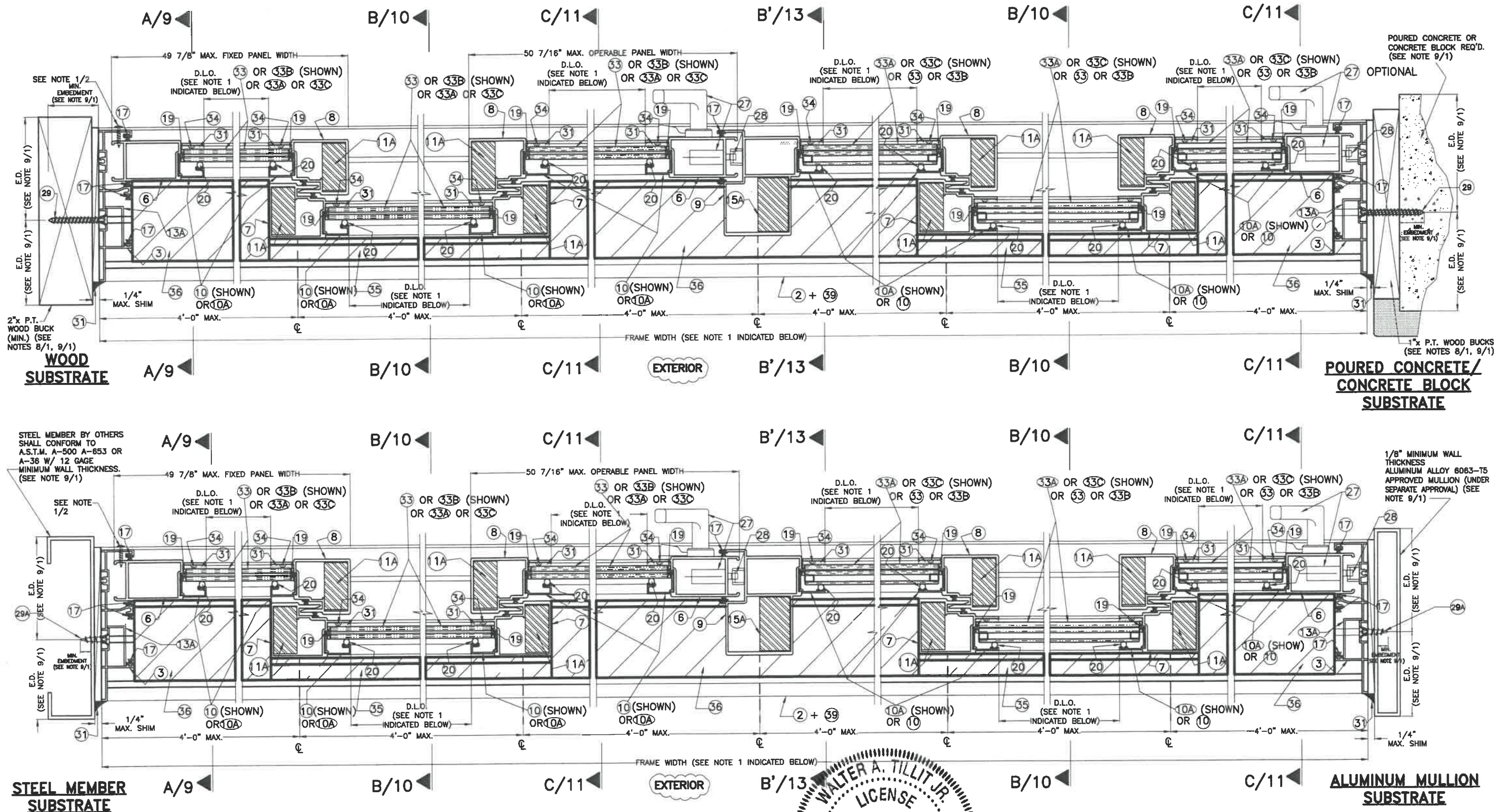
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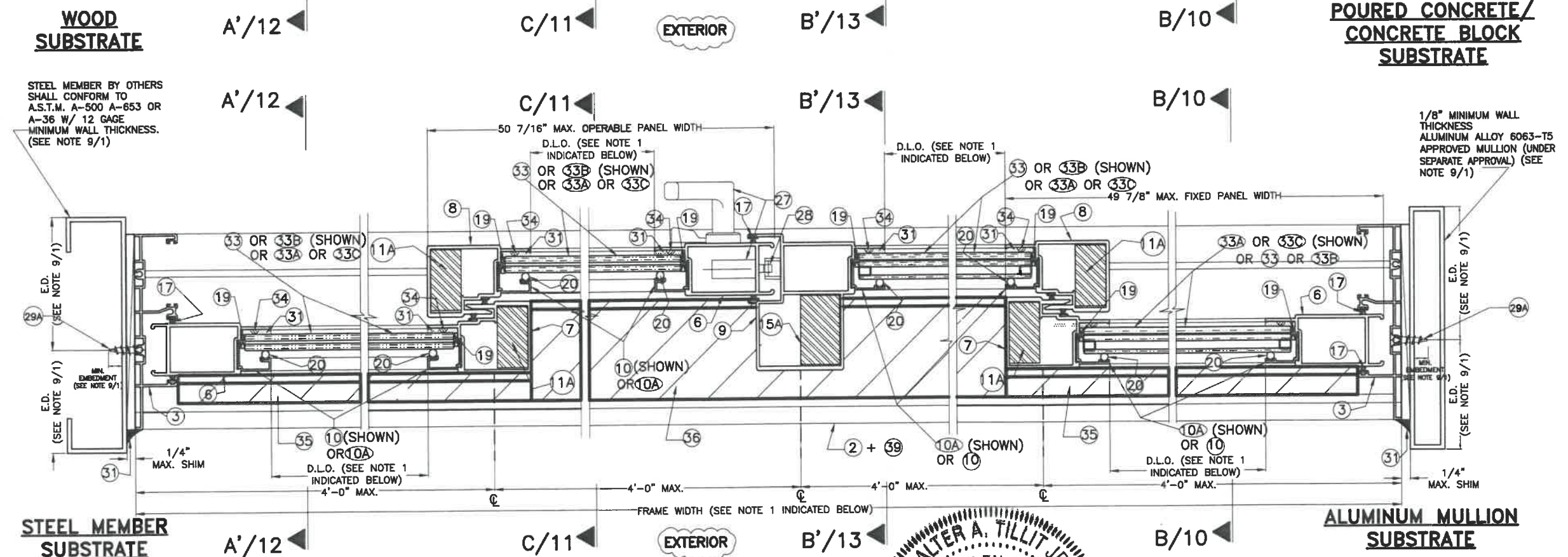
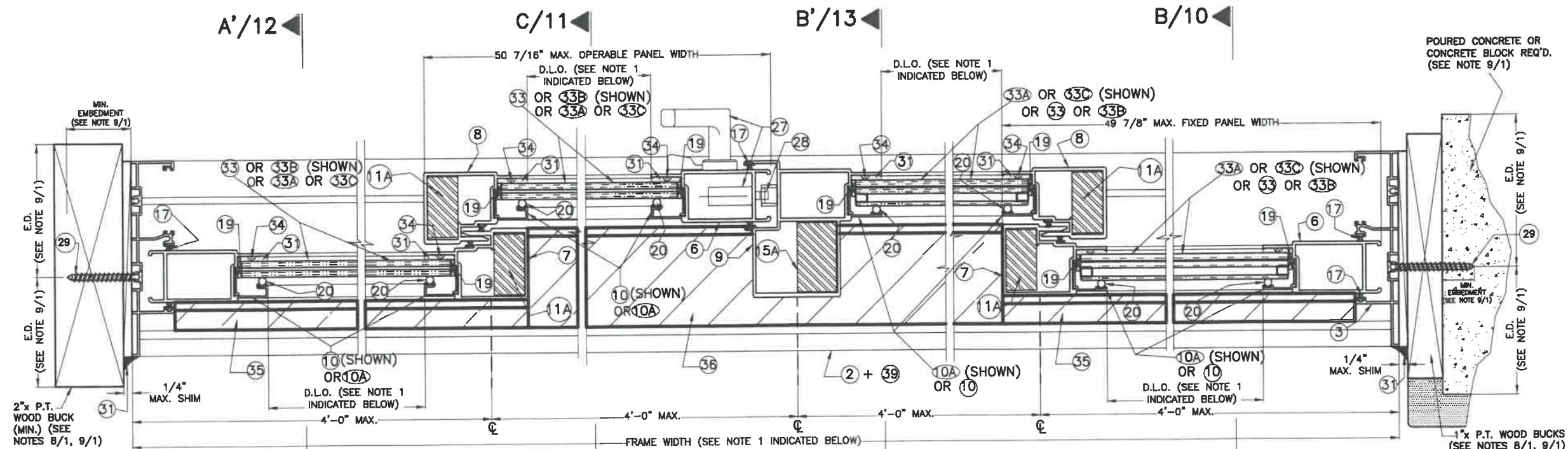
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08/03/2020
DATE

20-228
DRAWING No

SHEET 13 OF 49



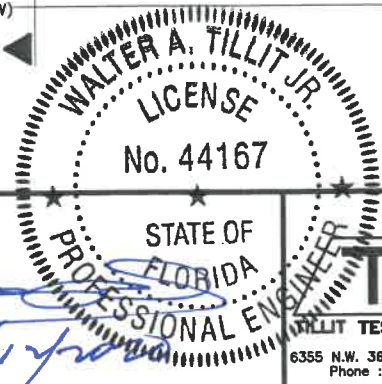


SECTION F-F (OXXO): TWO-TRACK DOOR

SCALE: 3/8"=1"

NOTES:

- FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 22 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEETS 23 & 24.
- SUBSTRATES CAN BE COMBINED AS APPLICABLE.
- SEE COVERS 35 & 36 LAYOUT ON SHEET 20.



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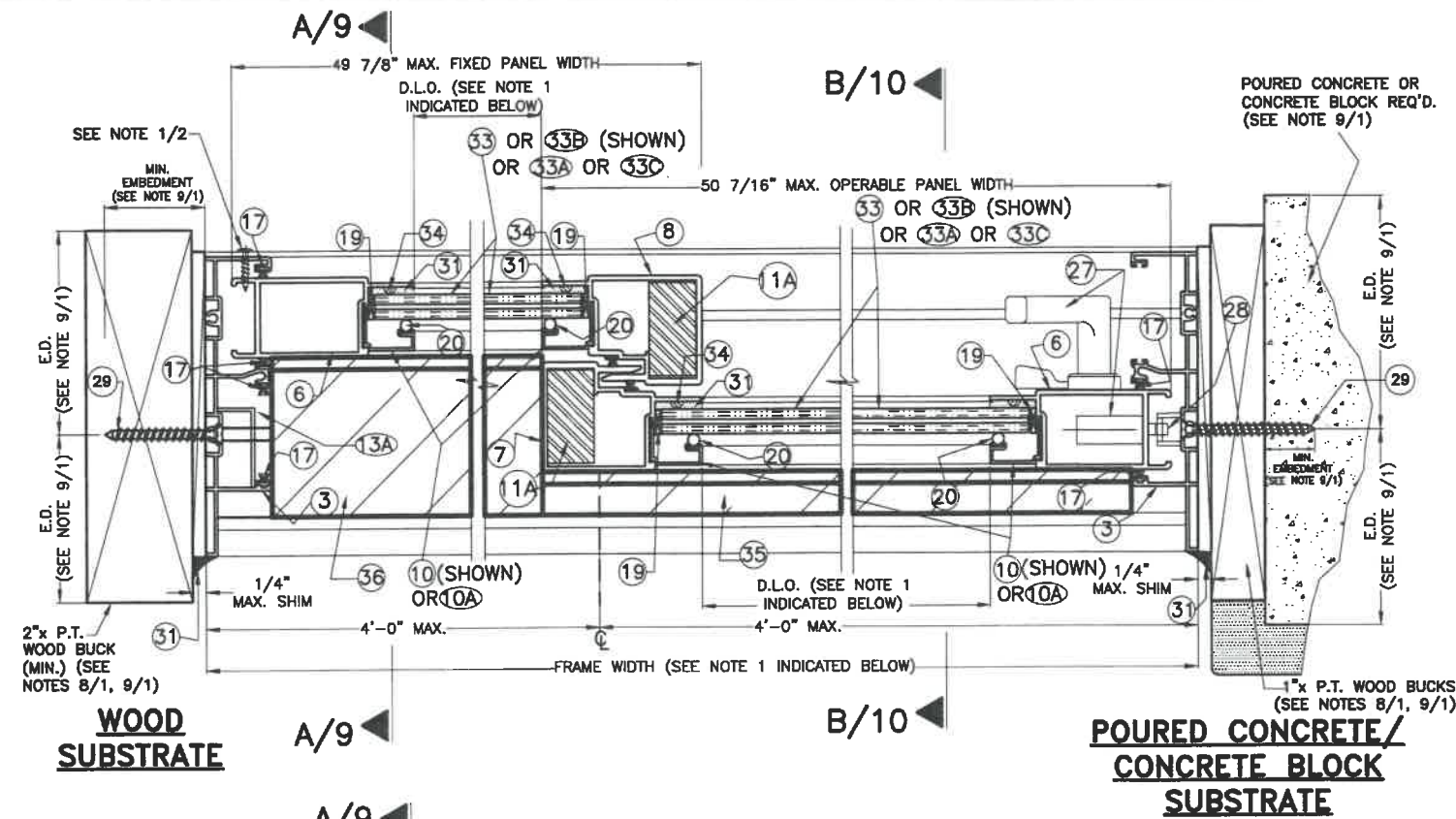
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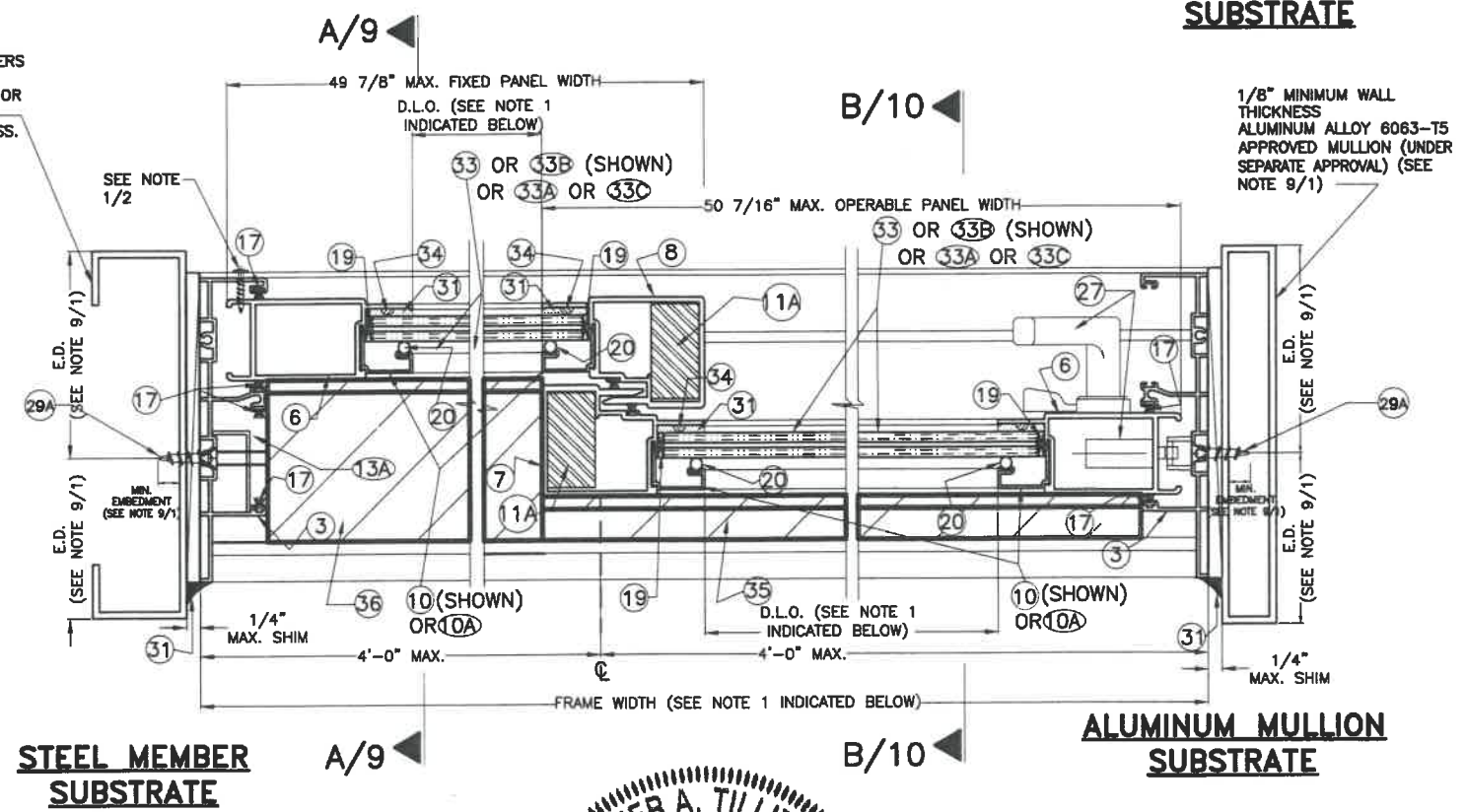
20-228
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-003	08/03/20	2		

SHEET 16 OF 49



STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE MINIMUM WALL THICKNESS. (SEE NOTE 9/1)

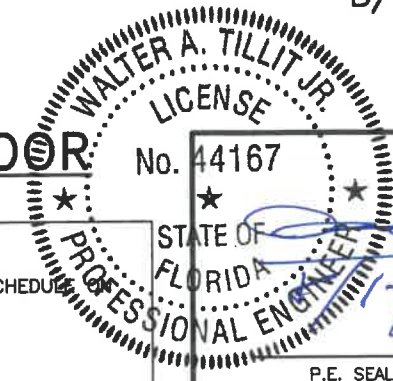


SECTION GG (OX) : TWO-TRACK DOOR

SCALE: 3/8"=1"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 22 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEETS 23 & 24.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.
3. SEE COVERS 35 & 36 LAYOUT ON SHEET 20.



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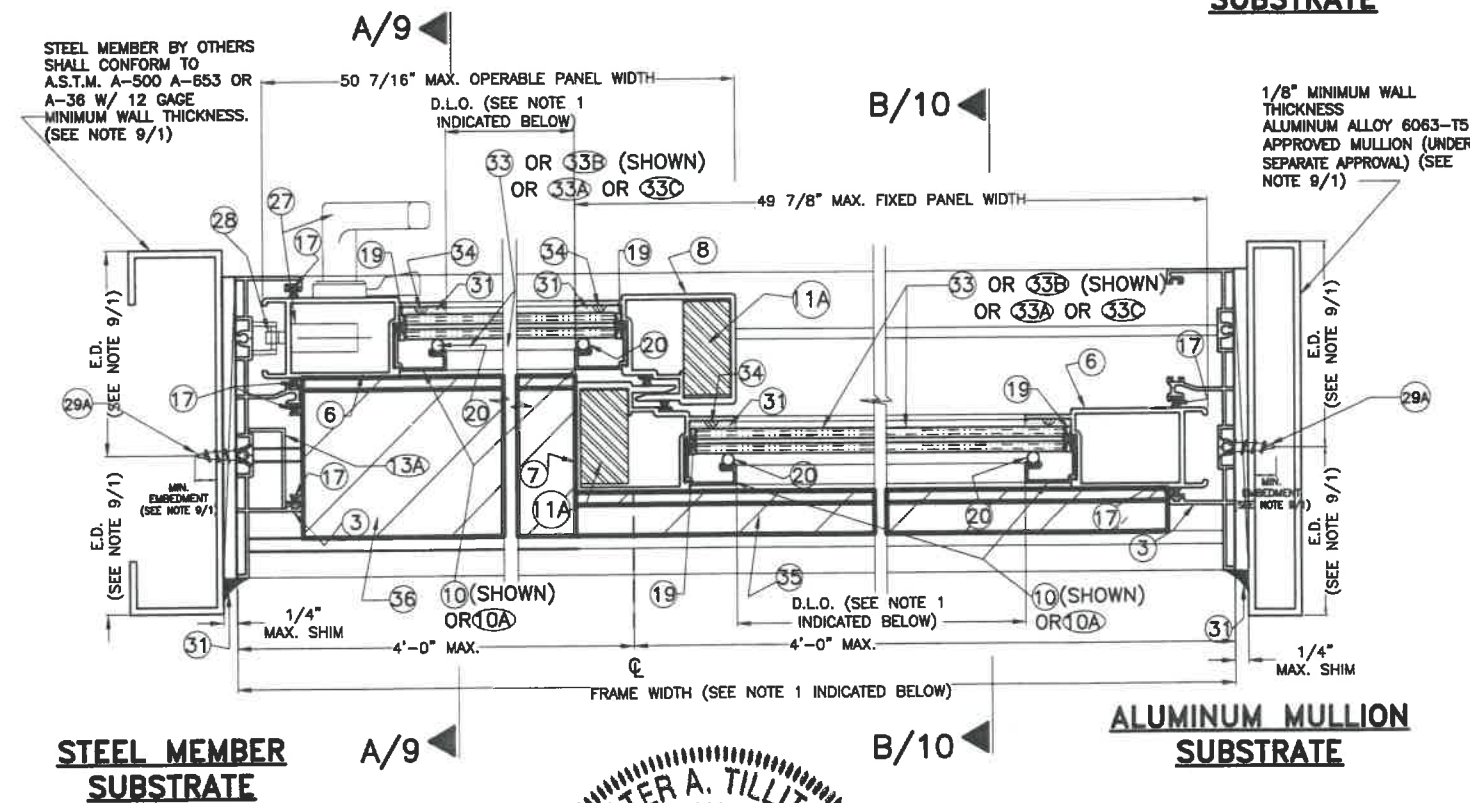
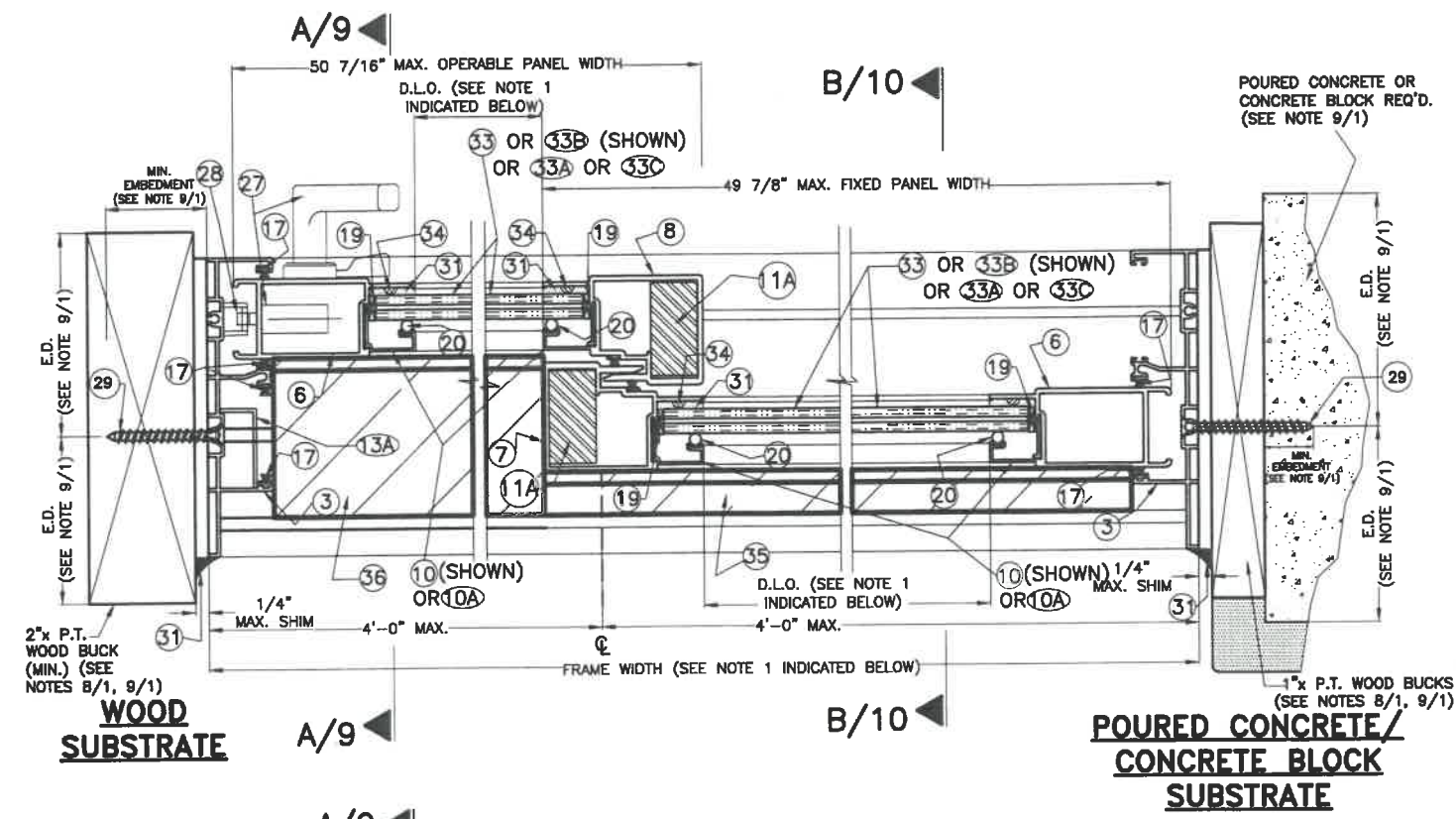
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1	OLD 20-003	08/03/20	2		



SECTION H-H (XO) : TWO-TRACK DOOR

SCALE: 3/8"=1"

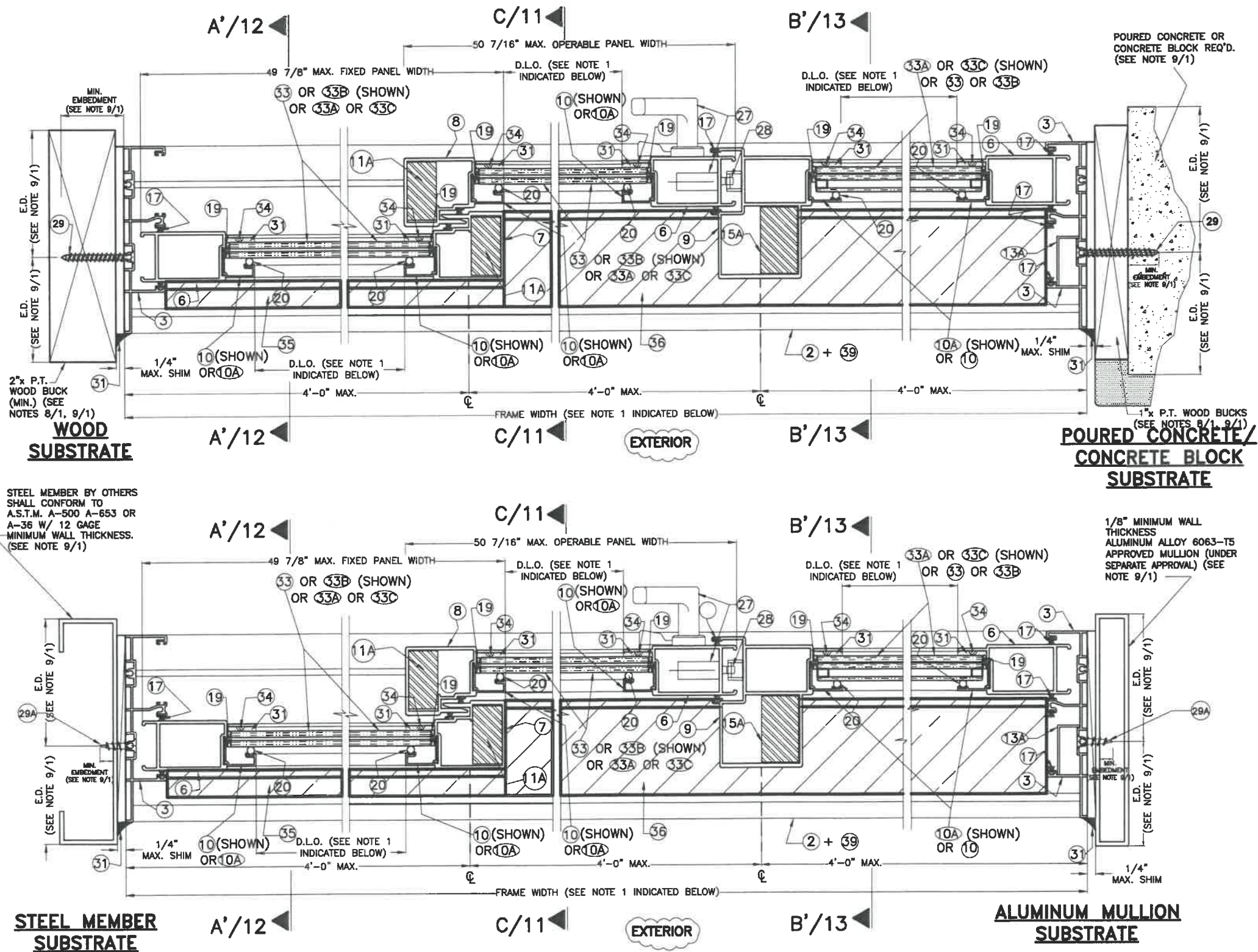
- NOTES:**
1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 22 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEETS 23 & 24.
 2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.
 3. SEE COVERS 35 & 36 LAYOUT ON SHEET 20.

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			20-228 DRAWING No		
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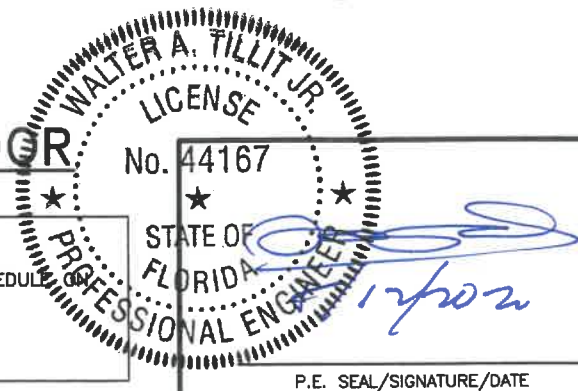


SECTION I-I (OXO): TWO-TRACK DOOR

SCALE: 3/8"=1"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 22 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEETS 23 & 24.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.
3. SEE COVERS 35 & 36 LAYOUT ON SHEET 20.



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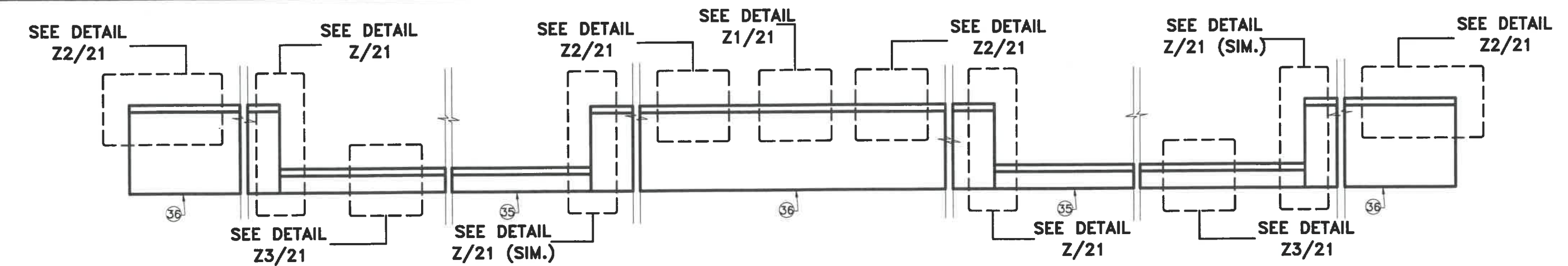
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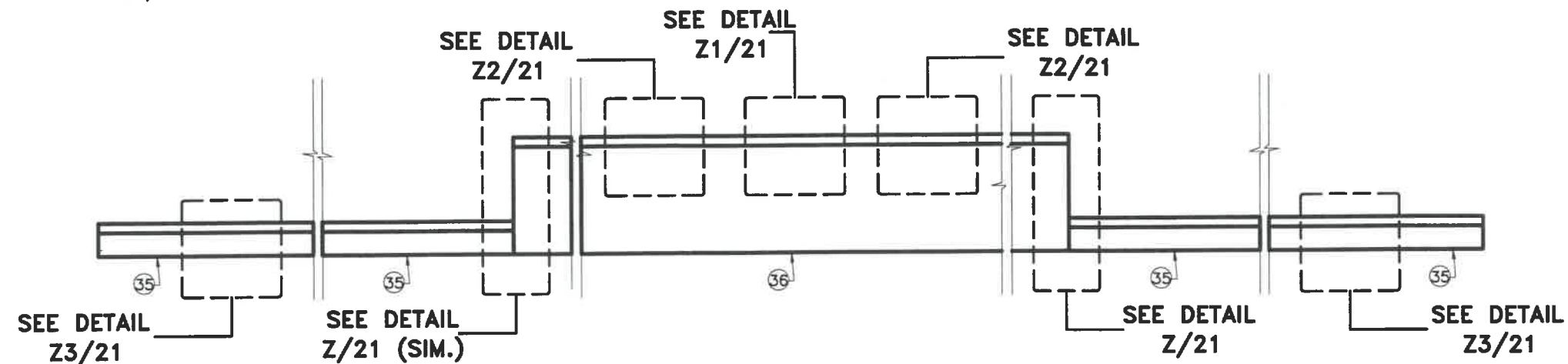
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SHEET 19 OF 49



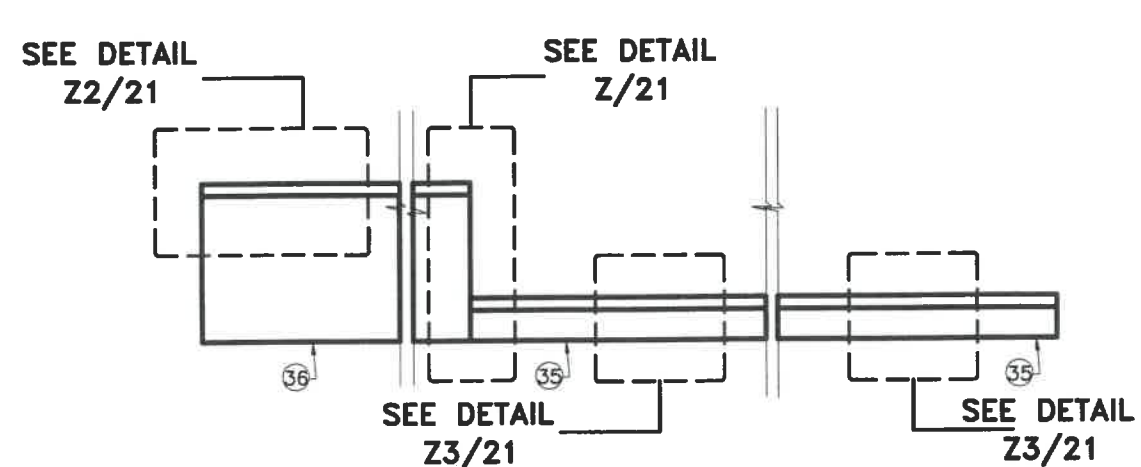
COVER 35 & 36 LAYOUT (PLAN), (OOXXOX & XOXXOX)

SCALE: 3/8"=1"



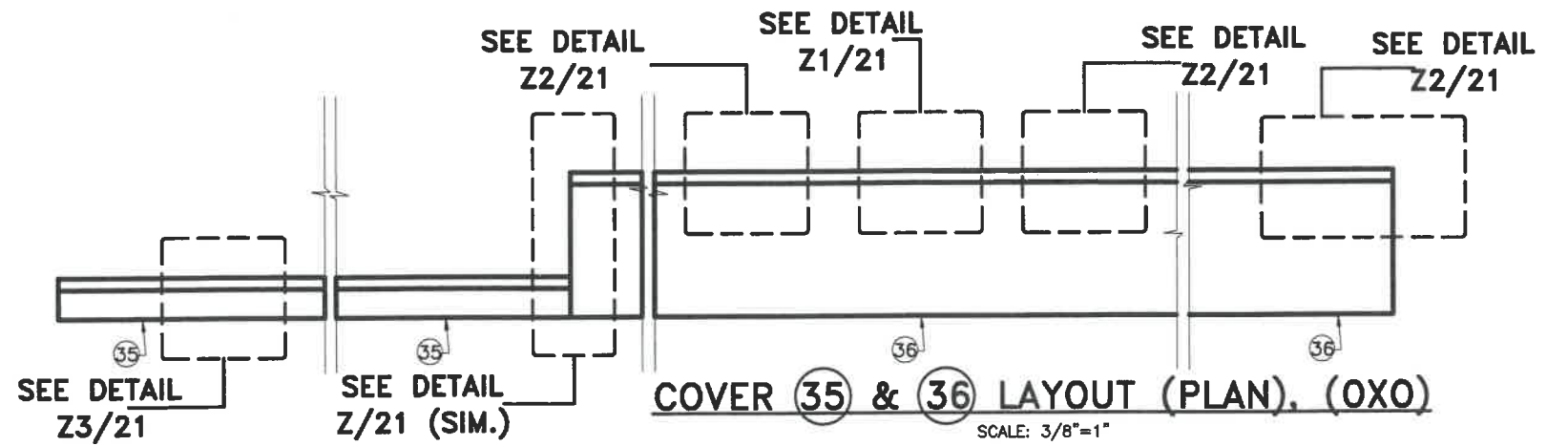
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SCALE: 3/8"=1"



COVER 35 & 36 LAYOUT (PLAN), (OX & XO)

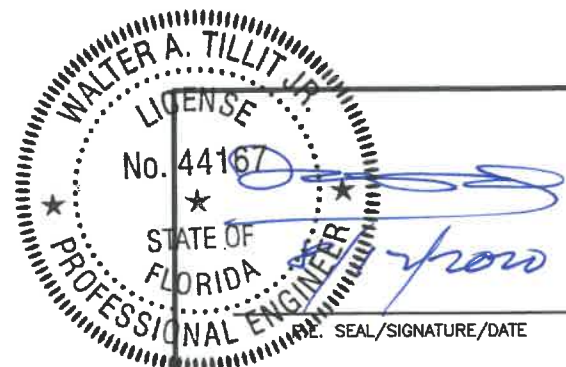
SCALE: 3/8"=1"



COVER 35 & 36 LAYOUT (PLAN), (OXO)

SCALE: 3/8"=1"

TWO- TRACK DOOR



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SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS**

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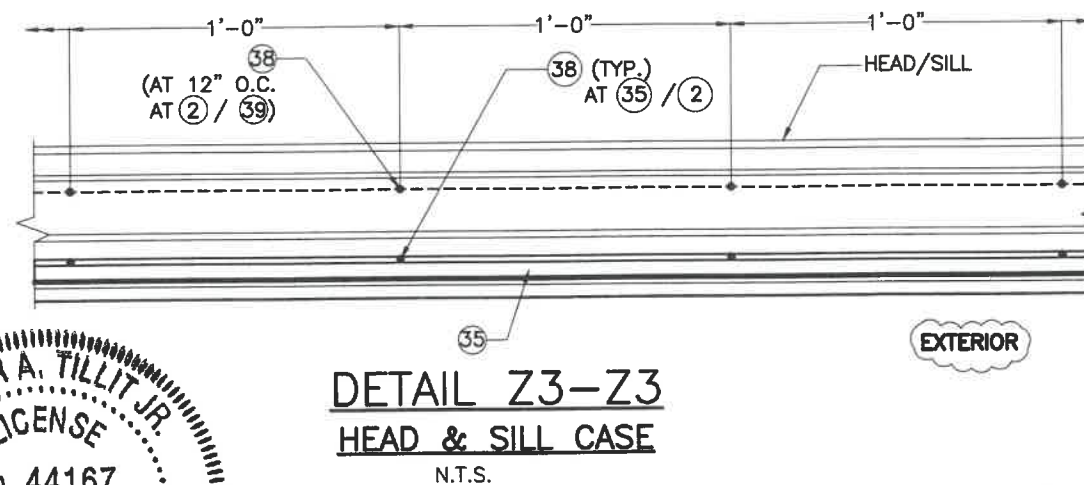
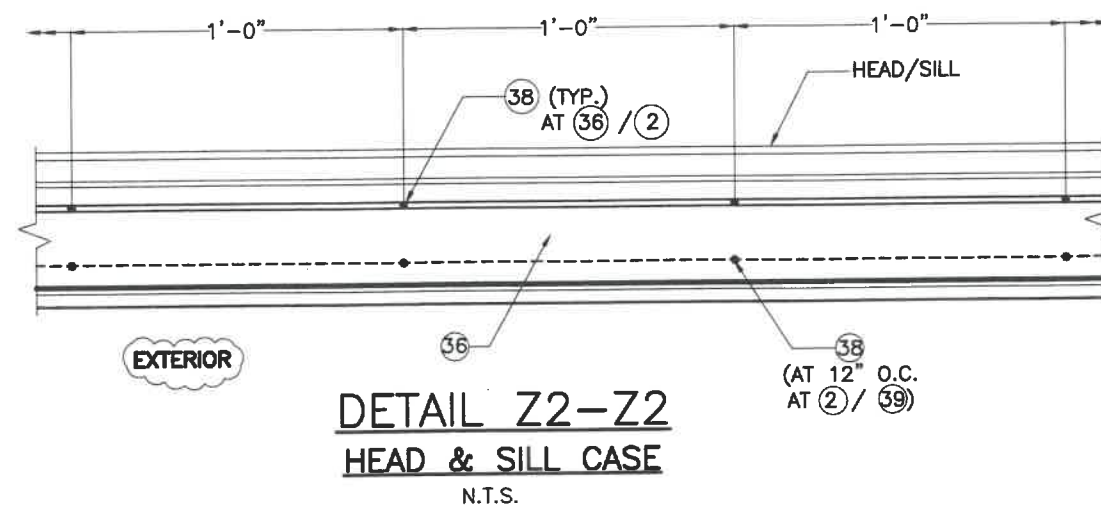
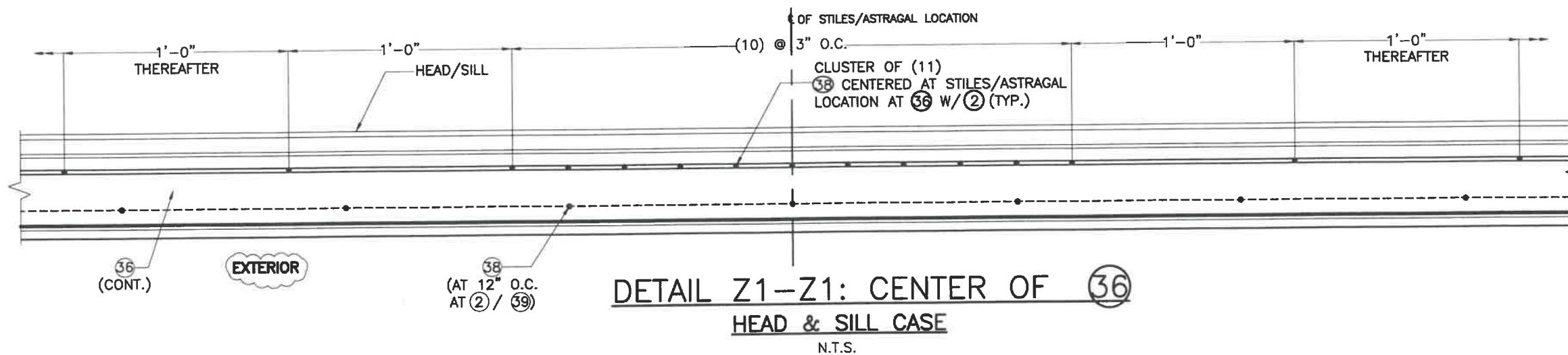
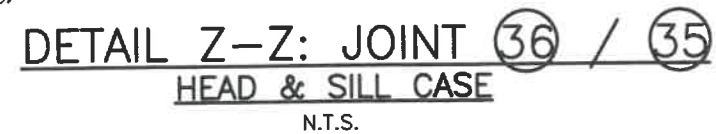
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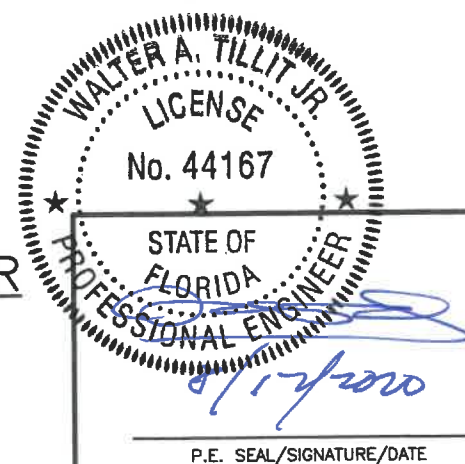
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COVERS CONNECTION LAYOUT AT TWO-TRACK DOOR



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

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

**SERIES LAZH 13000 HIGH IMPACT REINFORCED
SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS**

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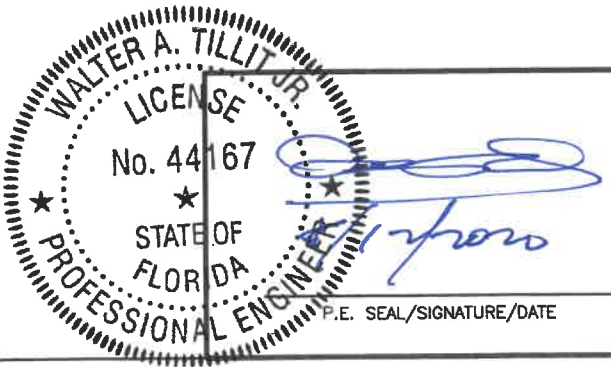
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 21 OF 49
1	OLD 20-003	08/03/20	2			

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR A MAXIMUM
FRAME HEIGHT, FRAME WIDTH, D.L.O. HEIGHT & D.L.O. WIDTH

MAX. A.S.D. DESIGN PRESSURE RATING	MAXIMUM FRAME HEIGHT	MAXIMUM FRAME WIDTH	MAXIMUM D.L.O. HEIGHT	MAXIMUM D.L.O. WIDTH	MAX. FIXED PANEL WIDTH	MAX. OPERABLE PANEL WIDTH	MAXIMUM PANEL HEIGHT
+100, -100 psf & 15 psf AT WATER	115"	24'-1/4"	105 3/4"	43 1/2"	49 7/8"	50 7/16"	112 3/4"
+100, -110 psf & 15 psf AT WATER	113"	24'-1/4"	103 3/4"	43 1/2"	49 7/8"	50 7/16"	110 3/4"
+100, -115 psf & 15 psf AT WATER	111"	24'-1/4"	101 3/4"	43 1/2"	49 7/8"	50 7/16"	108 3/4"
+100, -119 psf & 15 psf AT WATER	109"	24'-1/4"	99 3/4"	43 1/2"	49 7/8"	50 7/16"	106 3/4"
+100, -128 psf & 15 psf AT WATER	107"	24'-1/4"	97 3/4"	43 1/2"	49 7/8"	50 7/16"	104 3/4"
+100, -137 psf & 15 psf AT WATER	105"	24'-1/4"	95 3/4"	43 1/2"	49 7/8"	50 7/16"	102 3/4"

TWO-TRACK DOOR



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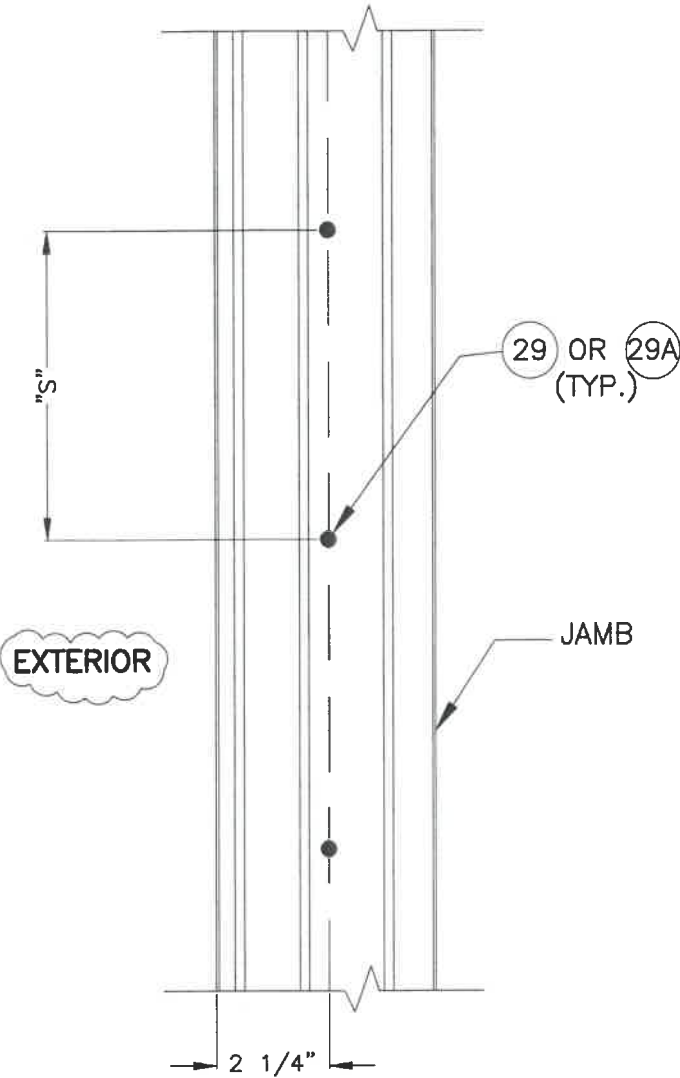
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1	OLD 20-003	08/03/20	2		

MAXIMUM ANCHORS SPACING "S" AT JAMBS CONNECTION SCHEDULE
FOR A GIVEN ANCHOR TYPE, SUBSTRATE & MAX. A.S.D. DESIGN
PRESSURE RATING

MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	JAMBS: (1) ANCHOR @ SPACING "S" FOR 29 OR 29A (SEE DETAIL Y-Y)
* 115" OR 113" OR 111" OR 109" OR 107" OR 105"	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	POURED CONCRETE OR CONCRETE BLOCK	+100, -100 psf	8" o.c.
			+100, -110 psf	8" o.c.
			+100, -120 psf	8" o.c.
			+100, -130 psf	8" o.c.
			+100, -137 psf	8" o.c.
	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	WOOD	+100, -100 psf	6 1/2" o.c.
			+100, -110 psf	6" o.c.
			+100, -120 psf	5 1/2" o.c.
			+100, -130 psf	5" o.c.
			+100, -137 psf	5" o.c.
	5/16"Ø KANEBRIDGE AISI 410 HT SERIES (29A)	ALUMINUM MULLION OR STEEL MEMBER	+100, -100 psf	8" o.c.
			+100, -110 psf	8" o.c.
			+100, -120 psf	8" o.c.
			+100, -130 psf	8" o.c.
			+100, -137 psf	8" o.c.

* SEE SHEET 22 FOR APPLICABLE DESIGN PRESSURE RATING.



DETAIL Y-Y
JAMB CASE
N.T.S.

TWO-TRACK DOOR

WALTER A. TILLIT JR.

LICENSE

No. 44167

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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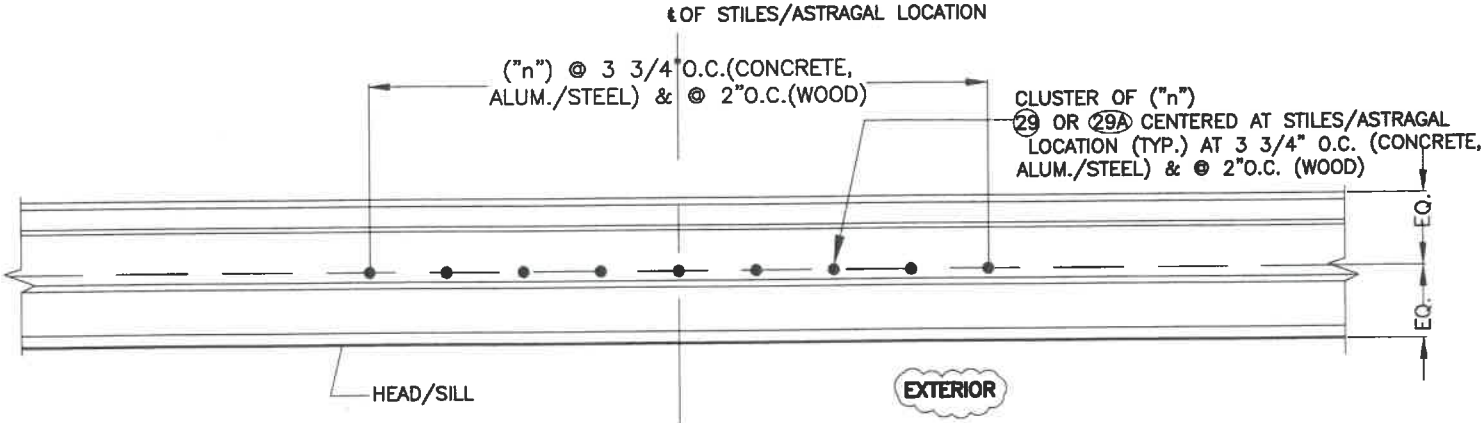
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SHEET 23 OF 49

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-003	08/03/20	2		

NUMBER OF ANCHORS AT CLUSTER ◇ AT HEAD & SILL CONNECTION SCHEDULE FOR A
 GIVEN ANCHOR TYPE, SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE RATING *

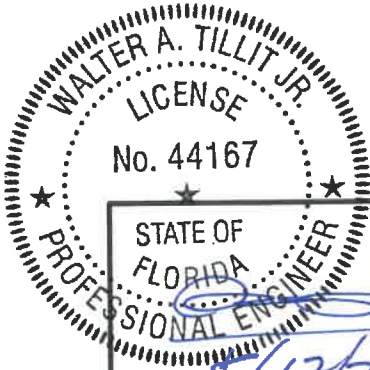
MAXIMUM FRAME HEIGHT RANGE	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	HEAD/SILL "n" # OF ANCHORS ◇
>110" TO 115"	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	POURED CONCRETE	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	WOOD	+100, -100 psf	17
			+100, -110 psf	17
			+100, -120 psf	19
	5/16"Ø KANEBRIDGE AISI 410 HT SERIES (29A)	ALUMINUM MULLION OR STEEL MEMBER	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
>105" TO 110"	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	POURED CONCRETE	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
			+100, -130 psf	9
			+100, -137 psf	9
	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	WOOD	+100, -100 psf	15
			+100, -110 psf	15
			+100, -120 psf	17
			+100, -130 psf	19
			+100, -137 psf	19
	5/16"Ø KANEBRIDGE AISI 410 HT SERIES (29A)	ALUMINUM MULLION OR STEEL MEMBER	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
			+100, -130 psf	9
			+100, -137 psf	9
105" OR LESS	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	POURED CONCRETE	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
			+100, -130 psf	9
			+100, -137 psf	9
	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	WOOD	+100, -100 psf	13
			+100, -110 psf	13
			+100, -120 psf	15
			+100, -130 psf	17
			+100, -137 psf	17
	5/16"Ø KANEBRIDGE AISI 410 HT SERIES (29A)	ALUMINUM MULLION OR STEEL MEMBER	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
			+100, -130 psf	9
			+100, -137 psf	9



DETAIL X-X (PLAN)
 HEAD & SILL CASE
 N.T.S.

◇ CORRESPONDS TO CLUSTER OF (29) OR (29A) ANCHORS AT ½ OF STILES/ASTRAGAL
 LOCATION (SEE DETAIL X)
 * SEE SCHEDULE ON SHEET 22 FOR APPLICABLE DESIGN PRESSURE RATING AND
 MAX. DOOR FRAME HEIGHT, BEFORE ENTERING INTO THIS SCHEDULE.

TWO-TRACK DOOR



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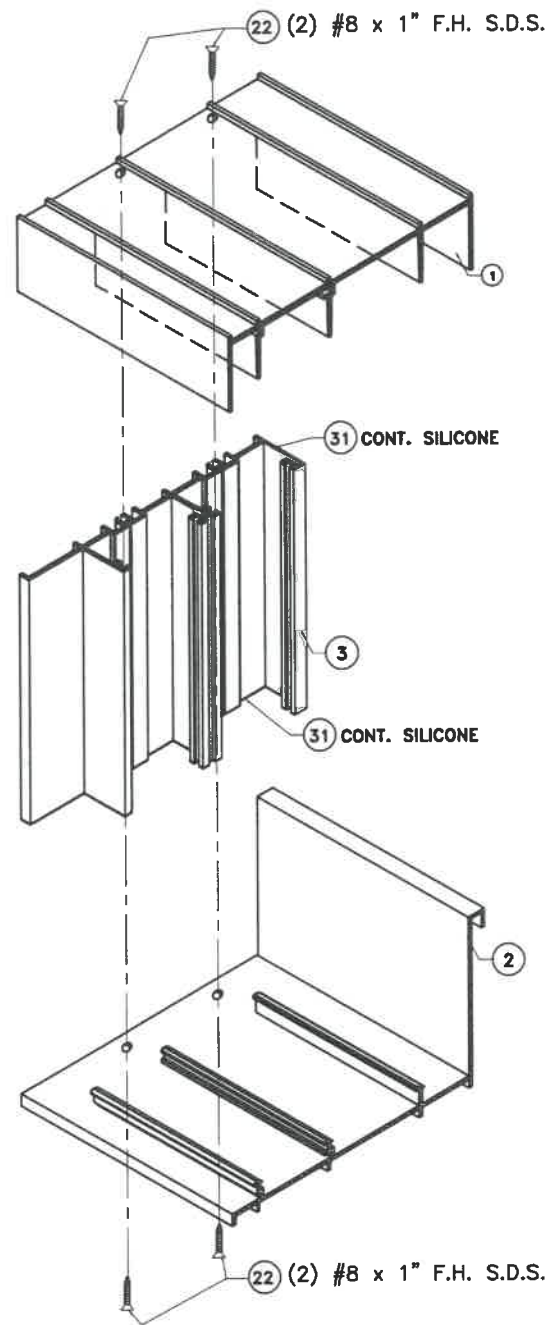
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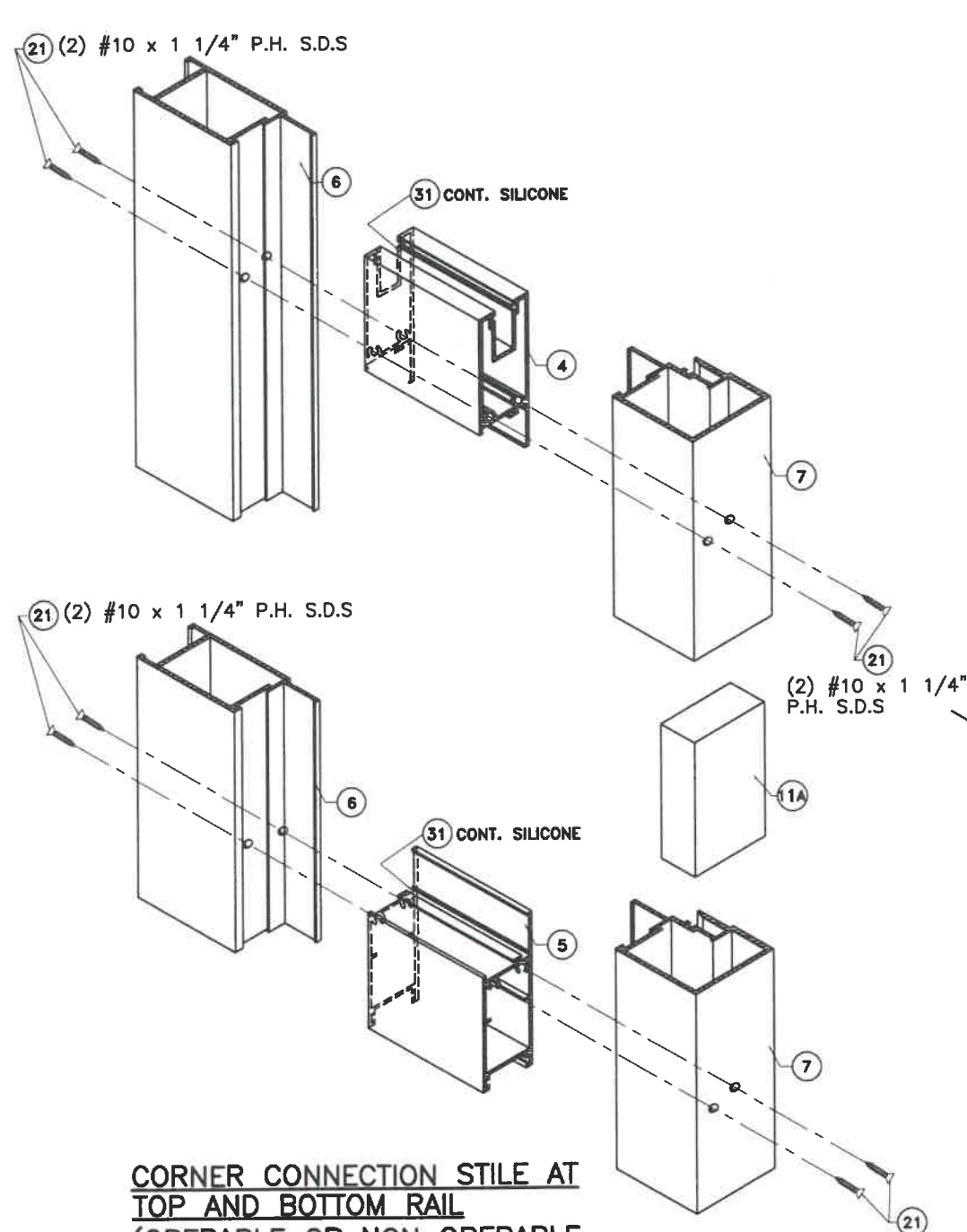
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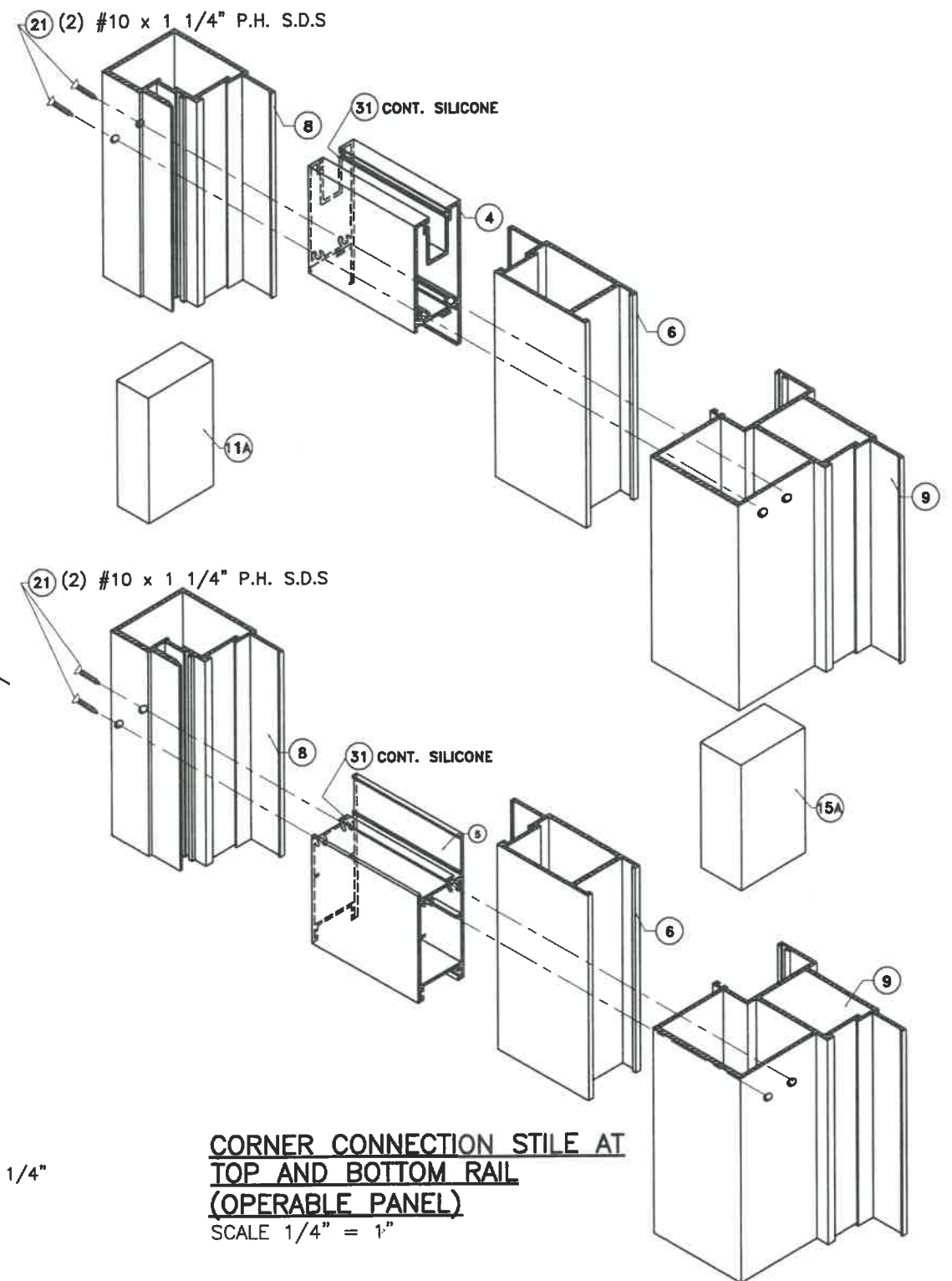
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**CORNER CONNECTION AT
FRAME HEAD AND SILL**
SCALE 1/4" = 1"

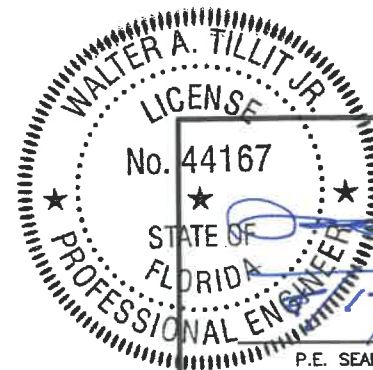


**CORNER CONNECTION STILE AT
TOP AND BOTTOM RAIL
(OPERABLE OR NON OPERABLE
PANEL)**
SCALE 1/4" = 1"



**CORNER CONNECTION STILE AT
TOP AND BOTTOM RAIL
(OPERABLE PANEL)**
SCALE 1/4" = 1"

TWO-TRACK SYSTEM



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1	OLD 20-003	08/03/20	2		

SHEET 25 OF 49

BILL OF MATERIALS: THREE-TRACK DOOR:			
ITEM #	PART #	DESCRIPTION	MATERIAL
1	GIC301-1	FRAME HEAD	6063-T6
2	GIC302-1	FRAME SILL	6063-T6
3	GIC303-1	FRAME JAMB	6063-T6
4	GIC304-1	TOP RAIL	6063-T6
5	GIC305-1	BOTTOM RAIL	6063-T6
6	GIC306-1	LOCK STILE / FIX PANEL STILE	6063-T6
7	GIC307-1	MEETING STILE OUTER INTERLOCK	6063-T6
8	GIC308-1	MEETING STILE INNER INTERLOCK	6063-T6
9	GIC309-1	CENTERMATE FEMALE ASTRAGAL	6063-T6
10	GIC310	GLAZING BEAD AT 33 OR 33B (L.G.)	6063-T6
10A	-	GLAZING BEAD AT 33A OR 33C (I.G.)	6063-T6
11A	GIC311	INTERLOCK STEEL STIFFENER, 0.890" x 1.750" FULL LENGTH	ASTM A-36 ZINC PLATED
13A	-	JAMB PANEL COVER, CONT.	6063-T6
15A	-	EXTERIOR STEEL REINFORCEMENT FOR FEMALE ASTRAGAL, 1 1/4" x 2" FULL LENGTH	ASTM A-36 ZINC PLATED
17	W223511K	TOP RAIL + JAMB + STILE + ASTRAGAL WEATHER STRIPPING PILE W/ INTEGRAL FIN	NEOPRENE
18	GIC315	BOTTOM RAIL SEAL FLAP	VINYL
19	GIC314	SETTING BLOCK	NEOPRENE
20	GIC316	GLAZING BULB	NEOPRENE
21	FASTENER	PANEL ASSEMBLY SCREWS, #10x1 1/4" P.H. S.D.S.	S.S.
22	FASTENER	FRAME ASSEMBLY SCREWS, #8x1" F.H. S.D.S.	S.S.
23	-	FOAM SEAL PRO-LON WEATHER STRIPPING, BY ULTRAFAB.	-
24	-	PANEL GUIDE (TOP ONLY) AT EACH END OF EACH PANEL @ 2/PANEL	CELCON
25	#1939-6010-55	GLASS PANEL ROLLER ASSEMBLY AT (2) 25 PER OPERABLE PANEL @ EACH END OF PANEL	S.S.
26	FASTENER	(2)1/4"-20x1" LONG T.H. S.S.M.S. TO STILES/ASTRAGAL FOR EACH ROLLER ASSEMBLY FASTENING	S.S.
27	2300-10SS / #623Z	3-PLY-DUAL-HOOK LOCK HANDLE LOCK (INTERIOR AND EXTERIOR) @ 36 1/2"/BOTTOM WITH LOCK INSTALLATION SCREW (2) #6-32x3/8" F.H. M.S. S.S. INCLUDES ZAMAK HANDLE @ 35 1/2"/BOTTOM W/ #10-24x1 3/4" O.H. M.S. S.S.	S.S.
28	2500-1061Z	LOCK STRIKE PLATE W/ STRIKE PLATE MOUNTING SCREW (2) #10x1 1/4" P.H. S.D.S.	S.S.
29	ANCHORS	5/16" @ 11W BULDEX TAPCON XL	STEEL
29A	ANCHORS	5/16" @ KANEBRIDGE AISI 410 HT SERIES	S.S.
31	GLAZING SILICONE SEALANT	STRUCTURAL SILICONE , DOW CORNING 795 & 995	SILICONE
33	LAMINATED GLASS	9/16" OVERALL LAMINATED GLASS W/ (1) 1/4" TEMPERED GLASS (EXTERIOR) + 0.035" THICK SENTRY GLASS, INTERLAYER BY E.I. DUPONT DE NEMOURS & CO., INC. + (1) 1/4" HEAT STRENGTHENED GLASS.	-
33A	INSULATED LAMINATED GLASS	1" OVERALL INSULATED LAMINATED GLASS W/ (1) 3/16" TEMPERED GLASS (EXTERIOR) + 3/8" AIR SPACE W/ 0.030"THK. 6063-T5 ALUMINUM SPACER ALL AROUND + 7/16" LAMINATED GLASS W/ 3/16" TEMPERED GLASS (EXTERIOR) + 0.035" THICK SENTRY GLASS, INTERLAYER BY E.I. DUPONT DE NEMOURS & CO., INC. + 3/16" HEAT STRENGTHENED GLASS.	-
33B	LAMINATED GLASS	9/16" OVERALL LAMINATED GLASS W/ (1) 1/4" TEMPERED GLASS (EXTERIOR) + L.G. W/ 0.060" THICK TROSIFOL PVB, INTERLAYER BY E.I. DUPONT DE NEMOURS & CO., INC. + (1) 1/4" HEAT STRENGTHENED GLASS.	-
33C	INSULATED LAMINATED GLASS	1" OVERALL INSULATED LAMINATED GLASS W/ (1) 3/16" TEMPERED GLASS (EXTERIOR) + 3/8" AIR SPACE W/ 0.030"THK. 6063-T5 ALUMINUM SPACER ALL AROUND + 7/16" LAMINATED GLASS W/ 3/16" TEMPERED GLASS (EXTERIOR) + I.G. W/ 0.060 THICK TROSIFOL PVB, INTERLAYER BY E.I. DUPONT DE NEMOURS & CO., INC. + 3/16" HEAT STRENGTHENED GLASS	-
34	-	BUMPON SPACER, 1/4" DIAMETER HALF SPHERE, CLEAR. 3" FROM CORNERS MAX. AND 12" O.C. (MAX.), AT MID-GLASS BITE ELEVATION, BY FRANK LOWE RUBBEL AND GASKET FLB-28, CLEAR.	SILICONE
35	-	SILL/HEAD COVER EXTERIOR PANEL	6063-T6
36	-	SILL/HEAD COVER INTERIOR PANEL	6063-T6
38	COVER FASTENER	1/4" x 1/2" F.H. SDS (MIN. Fy=92ksi Fu=124ksi)	STEEL
39	WATER RECEPTOR	THREE TRACK SYSTEM	6063-T6
40	FIXED PANEL GUIDE	SEE COMPONENT ON SHEET 27 FOR DETAIL (SEE NOTE 2/26 & VERTICAL SECTIONS) HARDNESS=60	RUBBER

WEEP HOLES		
DESCRIPTION	DISTANCE	LOCATION
1 1/8" BY 1/8" HIGH WEEP HOLES	6 1/4" FROM LEFT JAMB, USE (2) EACH END PANEL + (2) OPERABLE PANEL AT BALANCE	BETWEEN THE SCREEN RETAINER LEG AND AT THE VERTICAL LEG OF THE EXTERIOR PANEL TRACK
1 1/8" BY 1/8" HIGH WEEP HOLES	6 1/4" FROM LEFT JAMB, USE (2) EACH PANEL AT BALANCE	BETWEEN THE EXTERIOR PANEL TRACK AND THE INTERIOR PANEL TRACK
1 1/8" BY 1/8" HIGH WEEP HOLES	61 1/4" FROM LEFT/RIGHT JAMB, BALANCE @ (3) PER PANEL @ 12" o.c.	BETWEEN THE INTERIOR PANEL TRACK AND THE FRAME SILL FLANGE
1" BY 1/8" HIGH WEEP HOLES	11 5/8" FROM LEFT JAMB, BALANCE @ (2) PER PANEL @ 24" o.c.	SUB SILL ON THE INTERIOR VERTICAL LEG
1" BY 1/8" HIGH WEEP HOLES	11 5/8", BALANCE @ 24" o.c. FROM LEFT	SUB SILL ON THE EXTERIOR LEG

PADS AND GASKETS		
PADS AND GASKET TYPE	NUMBER AND SIZE	LOCATION
SELF ADHESIVE PILE PAD WITH MULTI INTEGRAL FIN	ONE 4" BY 3/4" WIDE	10 1/4" FROM EACH END OF EACH MID AND LAST PANEL FROM LEFT BOTTOM RAIL
OPEN CELL FOAM PAD (SECURED WITH SILICONE)	ONE 2 1/2" BY 1" BY 1" HIGH	EACH END OF EACH FRAME SILL EXTRUDED ALUMINUM COVER
OPEN CELL FOAM PAD (SECURED WITH SILICONE)	ONE 3" BY 1" BY 1/2" HIGH	6" FROM LEFT JAMB, BALANCE @ 4'-0" o.c.
SELF ADHESIVE PILE PAD WITH MULTI INTEGRAL FIN	ONE 3/4" BY 6" HIGH	FIRST PANEL FROM LEFT, AT BOTTOM OF THE INTERLOCK STILE
SELF ADHESIVE PILE PAD WITH MULTI INTEGRAL FIN	ONE 3/4" BY 6 1/4" HIGH	MOVING PANELS AT BOTTOM OF THE INTERLOCK STILES

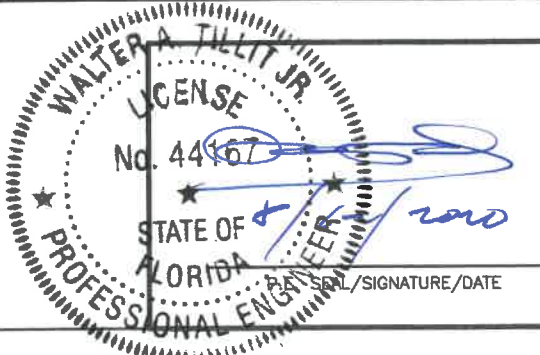
REAR FIXED PANEL INSTALLATION TO FRAME JAMB

- FIRST PANEL FROM LEFT SHALL BE FASTENED TO THE LEFT FRAME JAMB THRU THE SILL REAR FLANGE USING A SINGLE ROW No.10 BY 1 1/4" LONG PH SMS LOCATED 3" AND 101 5/8" FROM BOTTOM.
- ONE 1" LONG RUBBER GUIDE @ SHALL BE INSTALLED AT EACH END OF EACH FIXED PANEL BOTTOM RAIL AND ONE AT MID SPAN, FASTENED USING ONE No.10 BY 1" FH SMS.
- ONE 1.010" BY 2.010" BY 0.062" THICK BY FULL LENGTH ALUMINUM INSTALLATION ANGLE COVER (ITEM No.13A) SHALL BE INSTALLED AT EACH FRAME JAMB, SECURED WITH SILICONE.

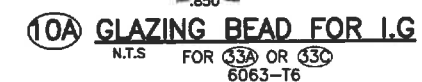
ADDITIONAL INFORMATION ON OPERABLE PANELS

- ONE 1" BY 0.075" THICK BY 45" LONG ALUMINUM PLATE SHALL BE INSTALLED AT EACH MOVING PANEL BOTTOM RAIL ON THE EXTERIOR, SECURED WITH SILICONE.

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1	OLD 20-003	08/03/20	2		
					SHEET 26 OF 49



COMPONENT

WALLER HILL JR.
LICENSE
No. 44167
★
STATE OF
FLORIDA
★
PROFESSIONAL ENGINEER

8/12/2011

FILED
AUG 14 2011
TALLAHASSEE

P.E. SEAL/SIGNATURE/DATE

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FLUOR TESTING & ENGINEERING COMPANY
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 Phone : (305) 871-1530 . Fax : (305) 871-1531
 e-mail: titeco@aol.com
 CA-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. 44167

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

**SERIES LAZH 13000 HIGH IMPACT REINFORCED
SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS**

ALUMINA DISTRIBUTION CENTER

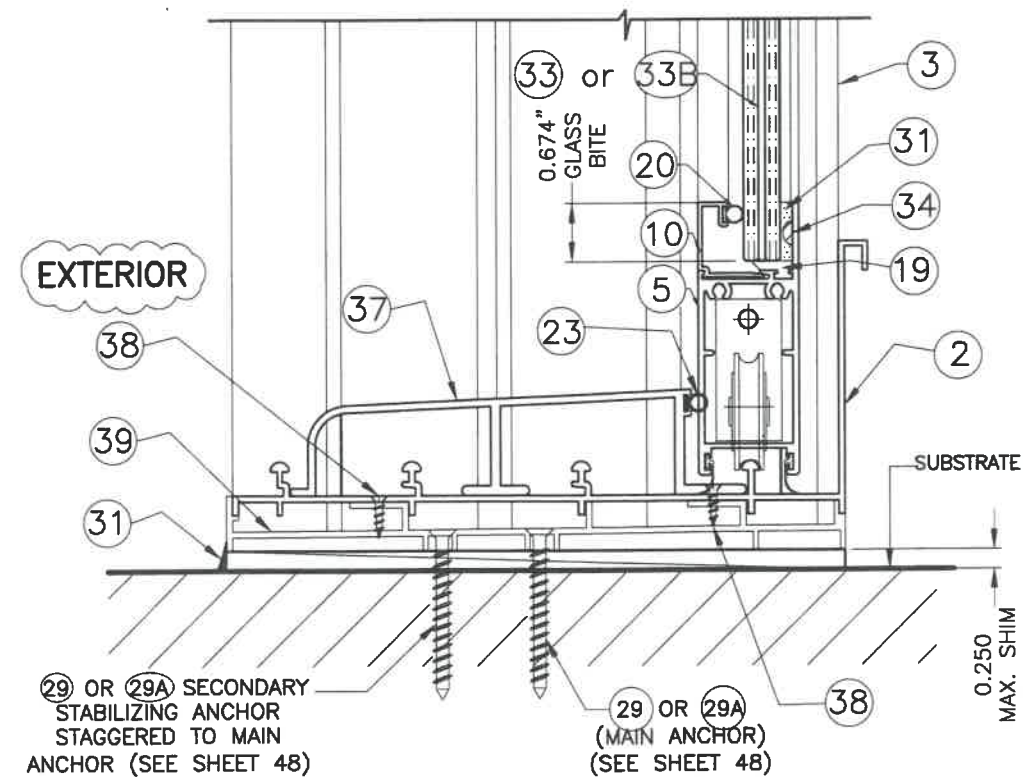
15002 N.W. 107 AVENUE SUITE # 1
HIALEAH GARDENS, FL. 33018
PHONE: (305) 444-1198

DRAWN BY:
F.P.

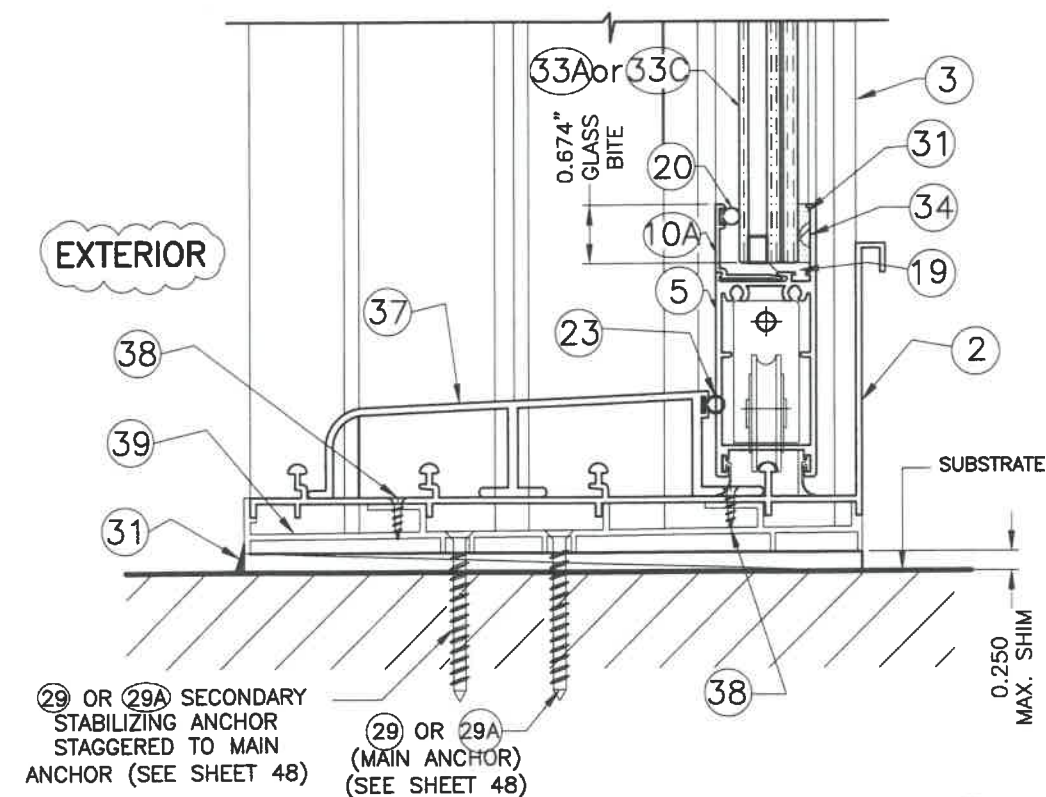
08/03/2020
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20-228
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 27 OF 49
1	OLD 20-003	08/03/20	2			



GLAZING DETAIL AT 33 OR 33B
SCALE: 1/2"=1"



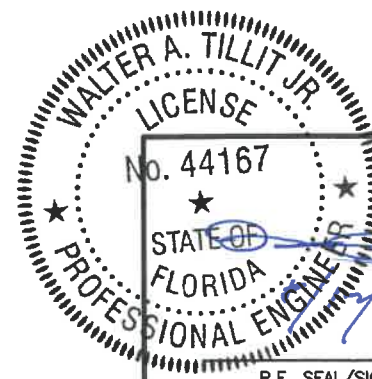
GLAZING DETAIL AT 33A OR 33C
SCALE: 1/2"=1"

GLASS SCHEDULE:

MAX. A.S.D. DESIGN PRESSURE RATING * (p.s.f.)	MAX. DOOR FRAME HEIGHT	REQUIRED GLASS TYPE TO BE USED
+100.0, -100.0	115"	33 OR 33A
+100.0, -110.0	113"	33B OR 33C
+100.0, -115.0	111"	33B OR 33C
+100.0, -119.0	109"	33B OR 33C
+100.0, -128.0	107"	33B OR 33C
+100.0, -137.0	105"	33B OR 33C

* SEE SHEET 46 FOR MAX. D.L.O. & SASH DIMENSIONS FOR DOOR

THREE-TRACK SYSTEM



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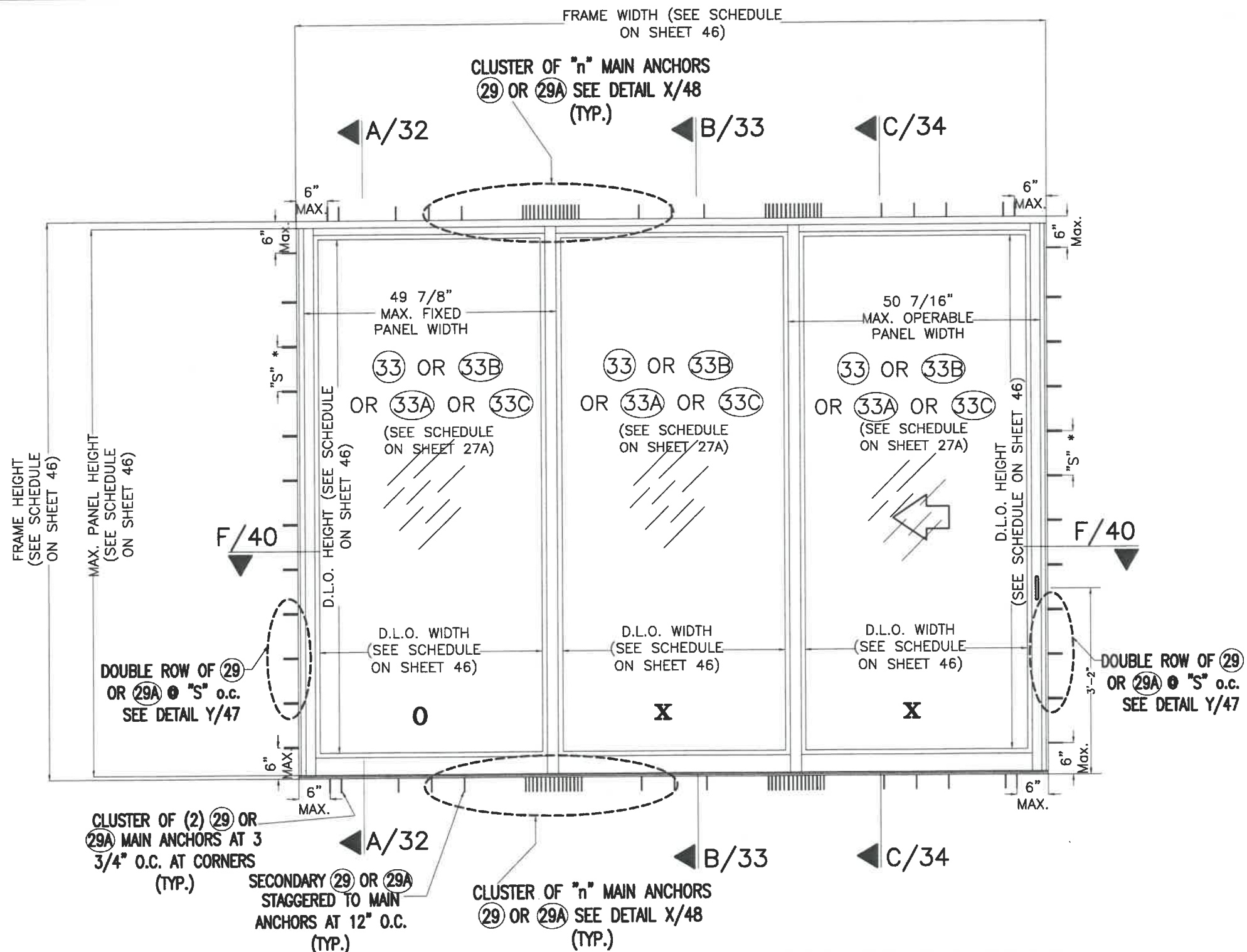
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SHEET 27A OF 49



TYPICAL EXTERIOR ELEVATION: THREE-TRACK DOOR (CONFIGURATION OXX)

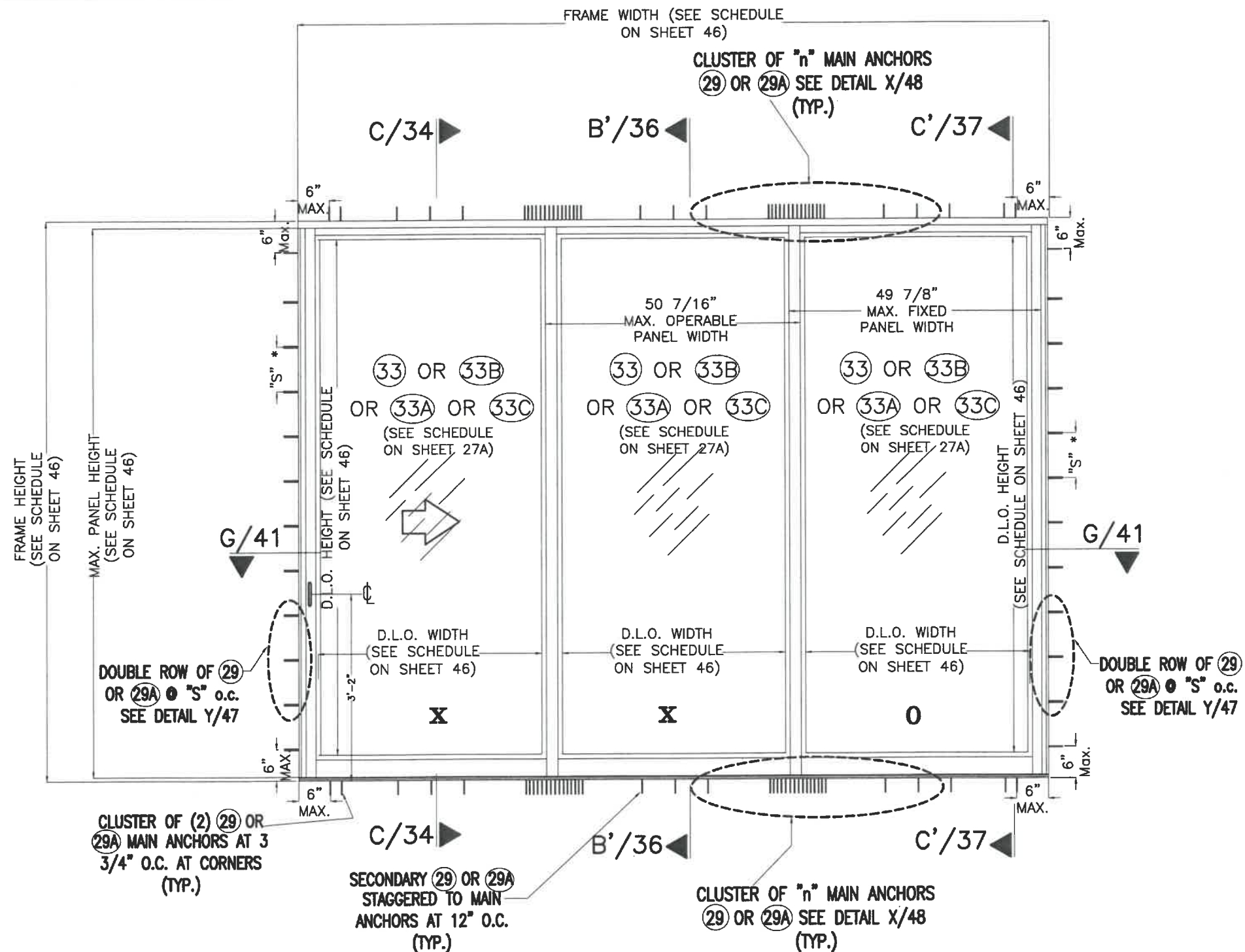
SCALE: 1/2" = 1'-0"

* SEE SHEET 47 FOR MAXIMUM ANCHOR SPACING

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

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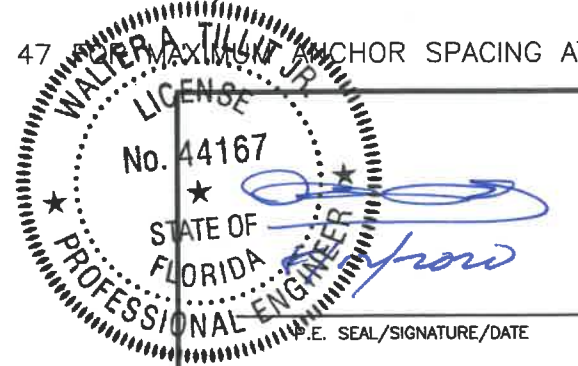
SERIES LAZH 13000 HIGH IMPACT REINFORCED SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS			DRAWN BY: F.P.		
ALUMINA DISTRIBUTION CENTER			08/03/2020 DATE		
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-003	08/03/20	2		
SHEET 30 OF 49					



TYPICAL EXTERIOR ELEVATION: THREE-TRACK DOOR (CONFIGURATION XXO)

SCALE: 1/2" = 1'-0"

* SEE SHEET 47 FOR MAXIMUM ANCHOR SPACING AT JAMBS



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SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS**

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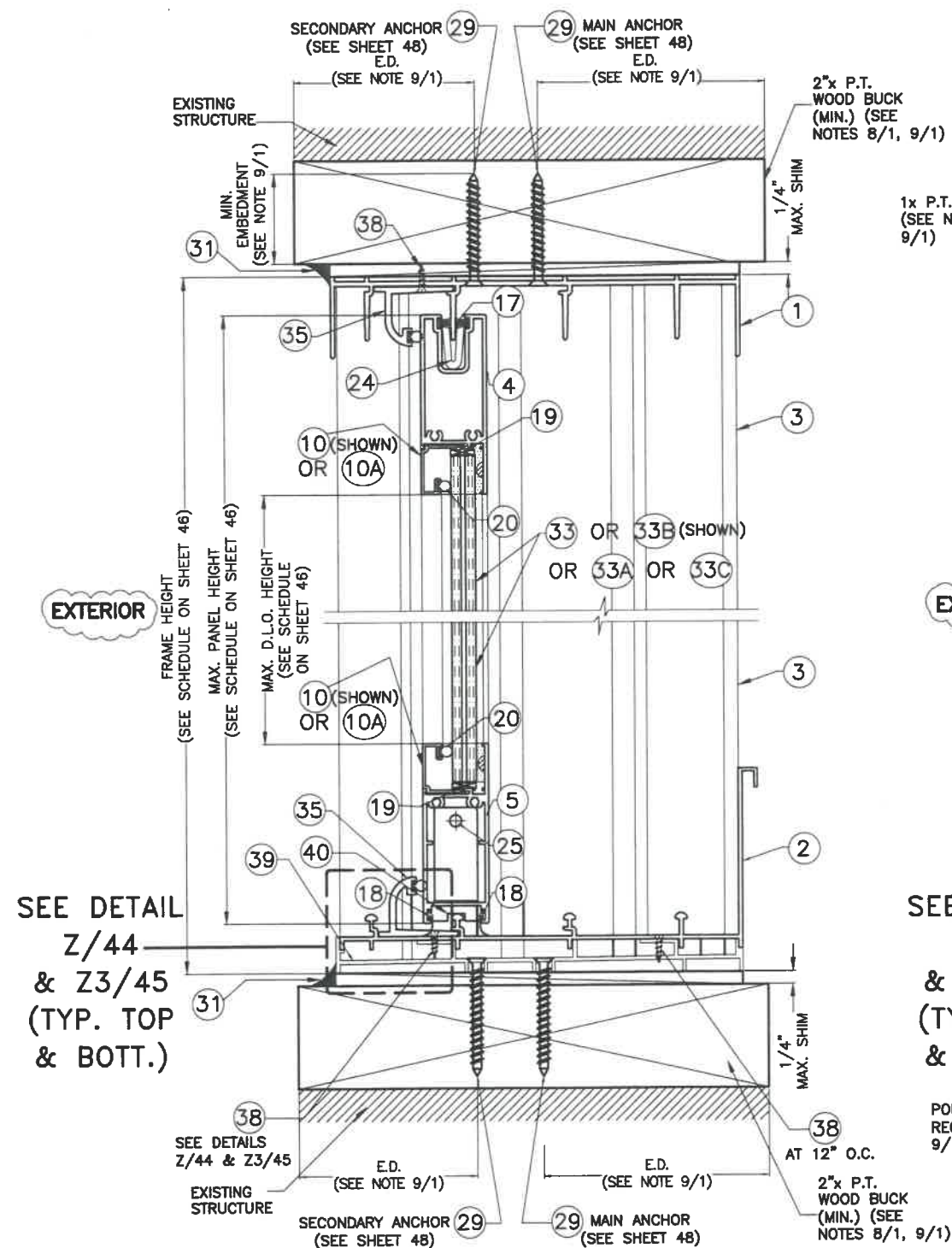
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DRAWING No

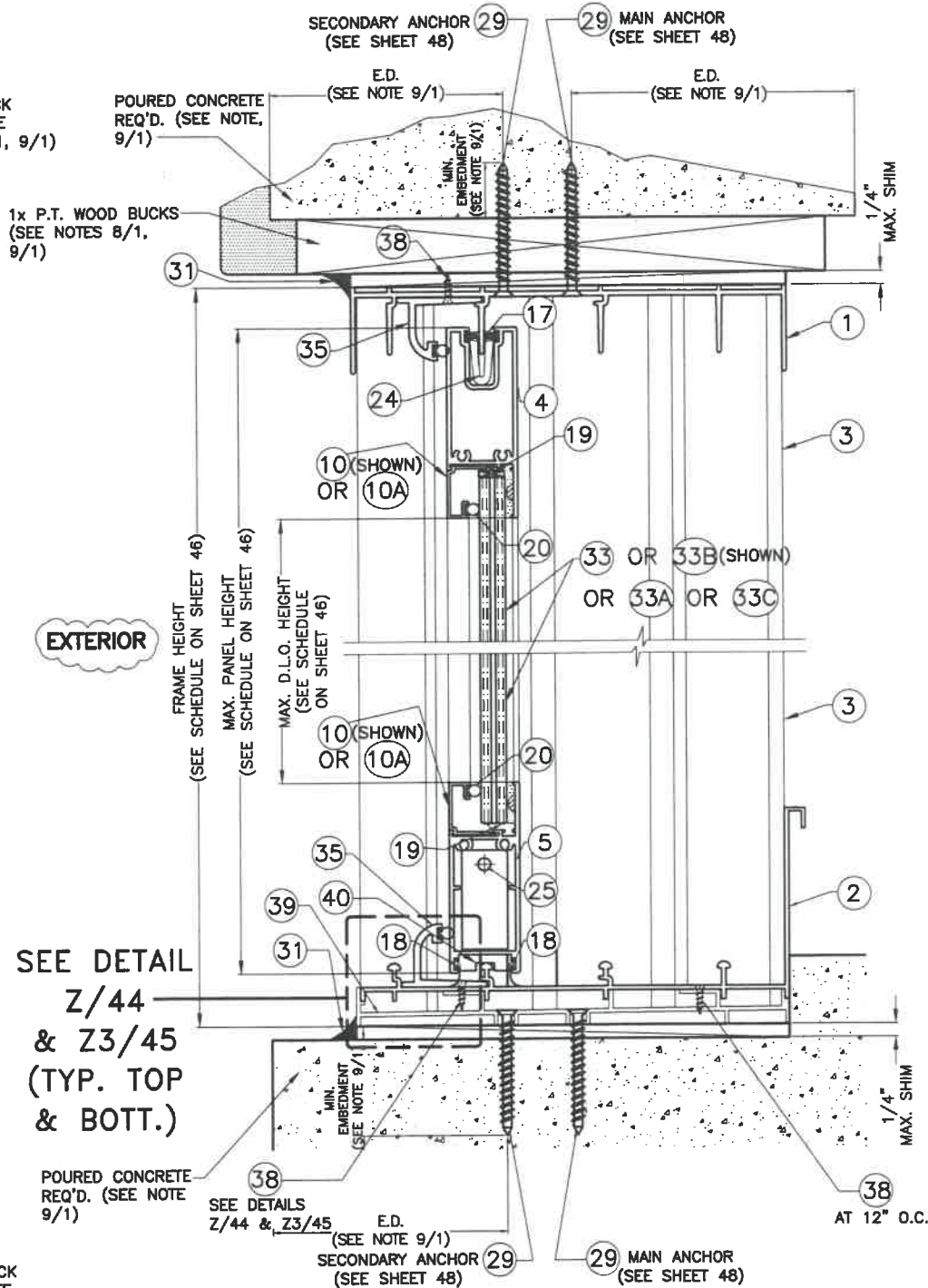
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SHEET 31 OF 49



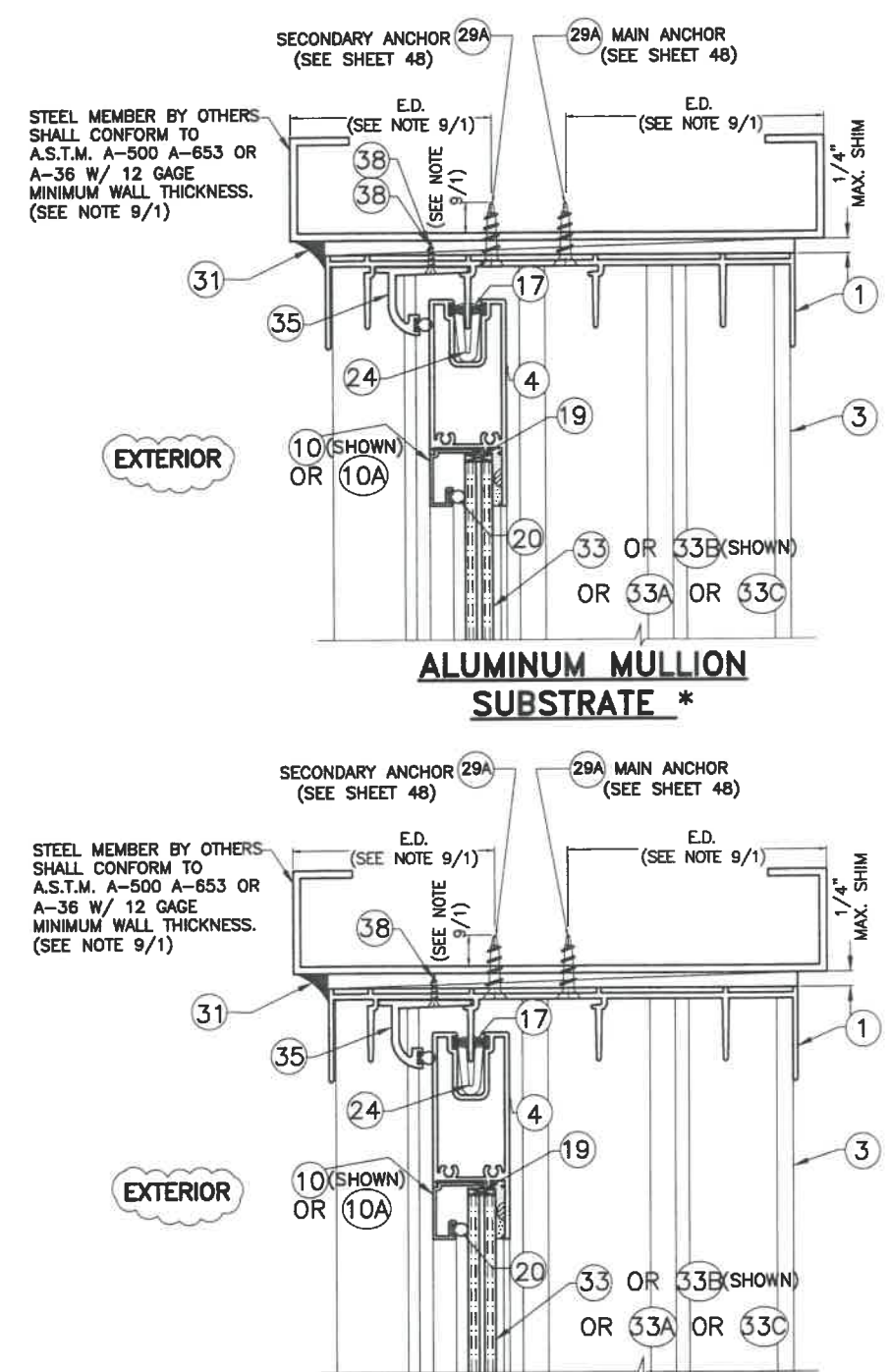
**WOOD
SUBSTRATE**

SEE DETAIL
Z/44
& Z3/45
(TYP. TOP
& BOTT.)



**POURED CONCRETE/
SUBSTRATE**

SEE DETAIL
Z/44
& Z3/45
(TYP. TOP
& BOTT.)



**ALUMINUM MULLION
SUBSTRATE ***

*NOTE: SIMILAR DETAIL IS APPLICABLE FOR
SILL. STRUCTURAL ADEQUACY OF SUBSTRATE
SHALL BE VERIFIED BY BUILDING OFFICIAL.

SECTION A-A (3) TRACK DOOR

SCALE: 3/8"=1"



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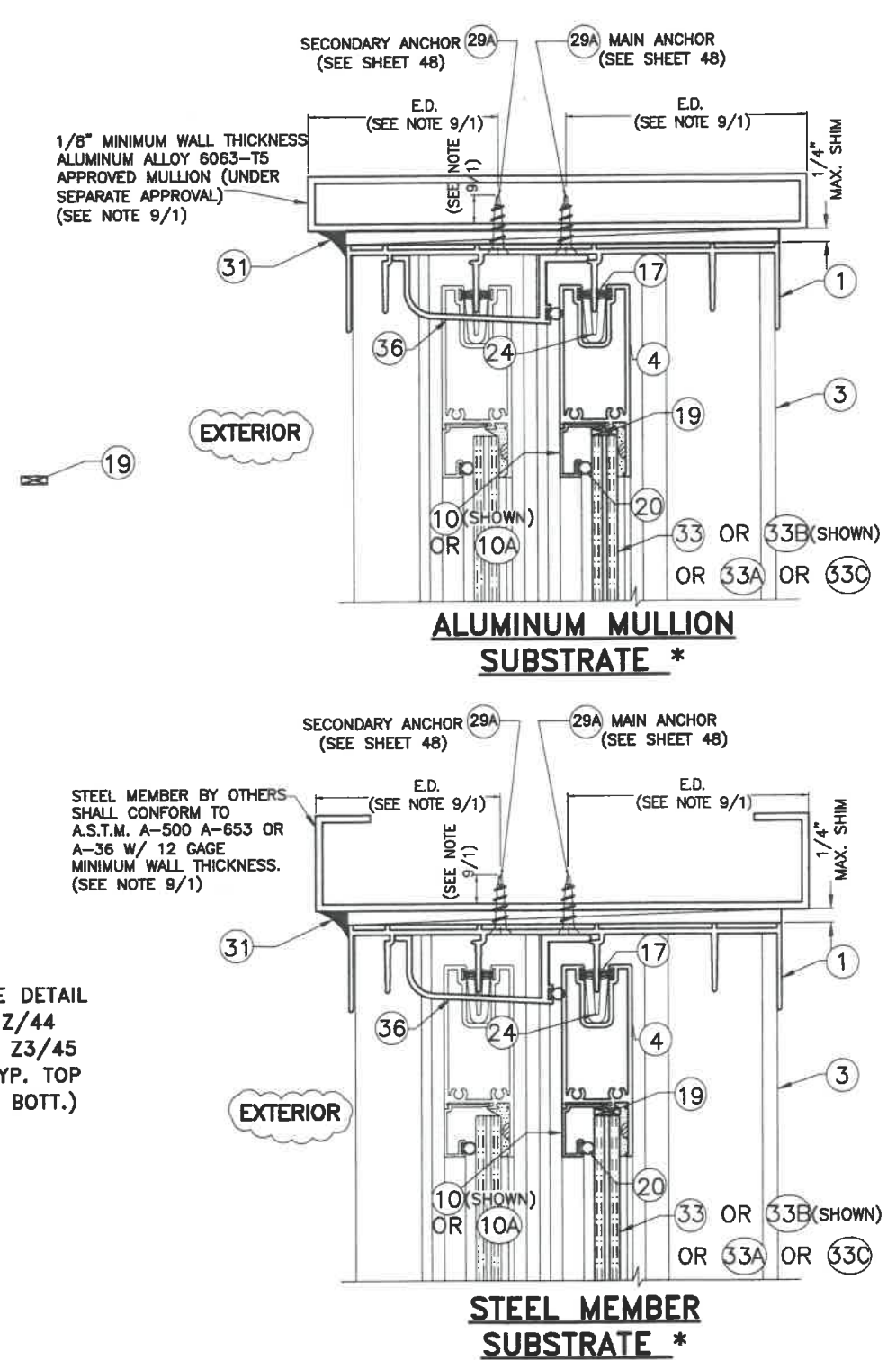
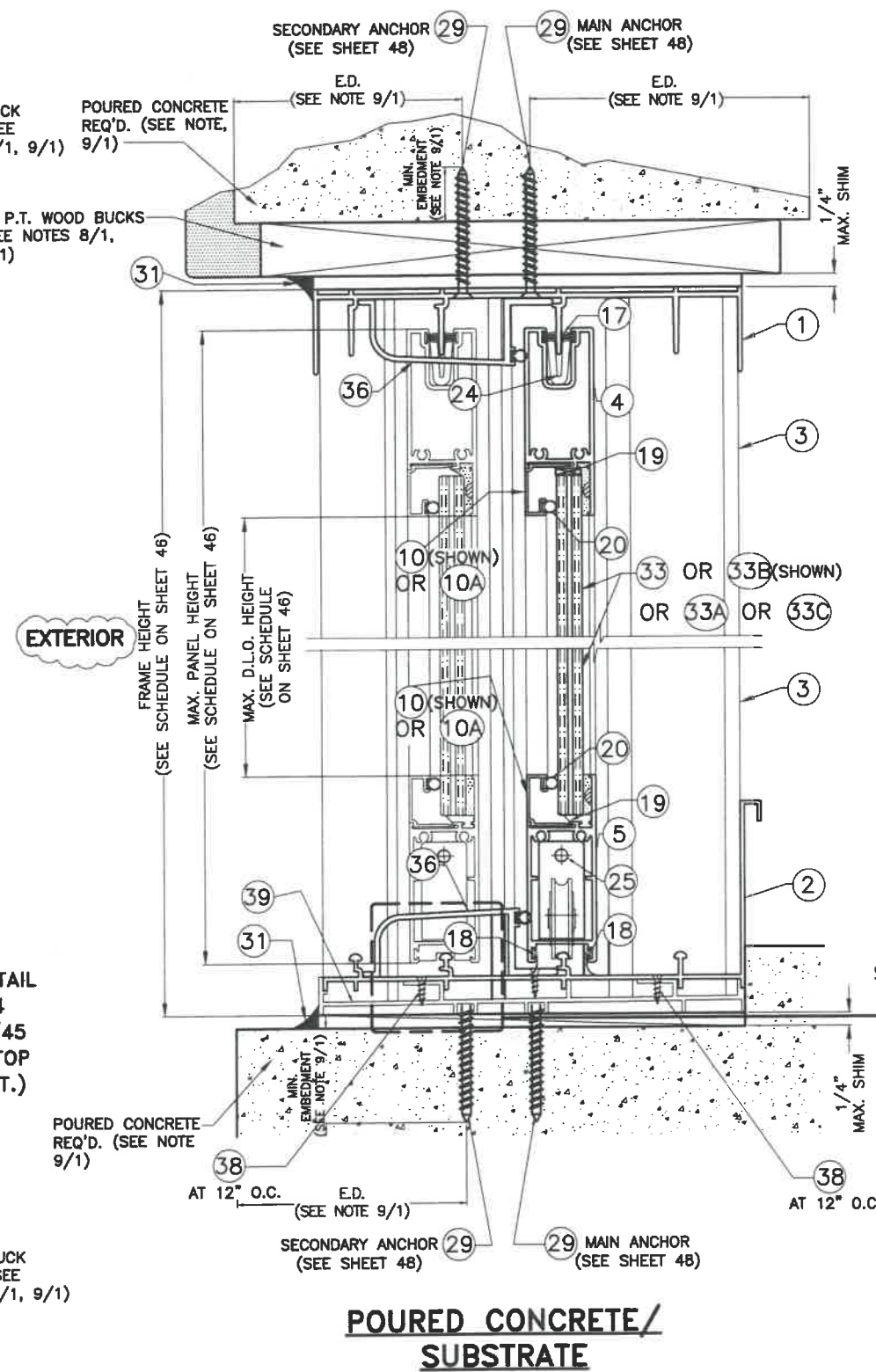
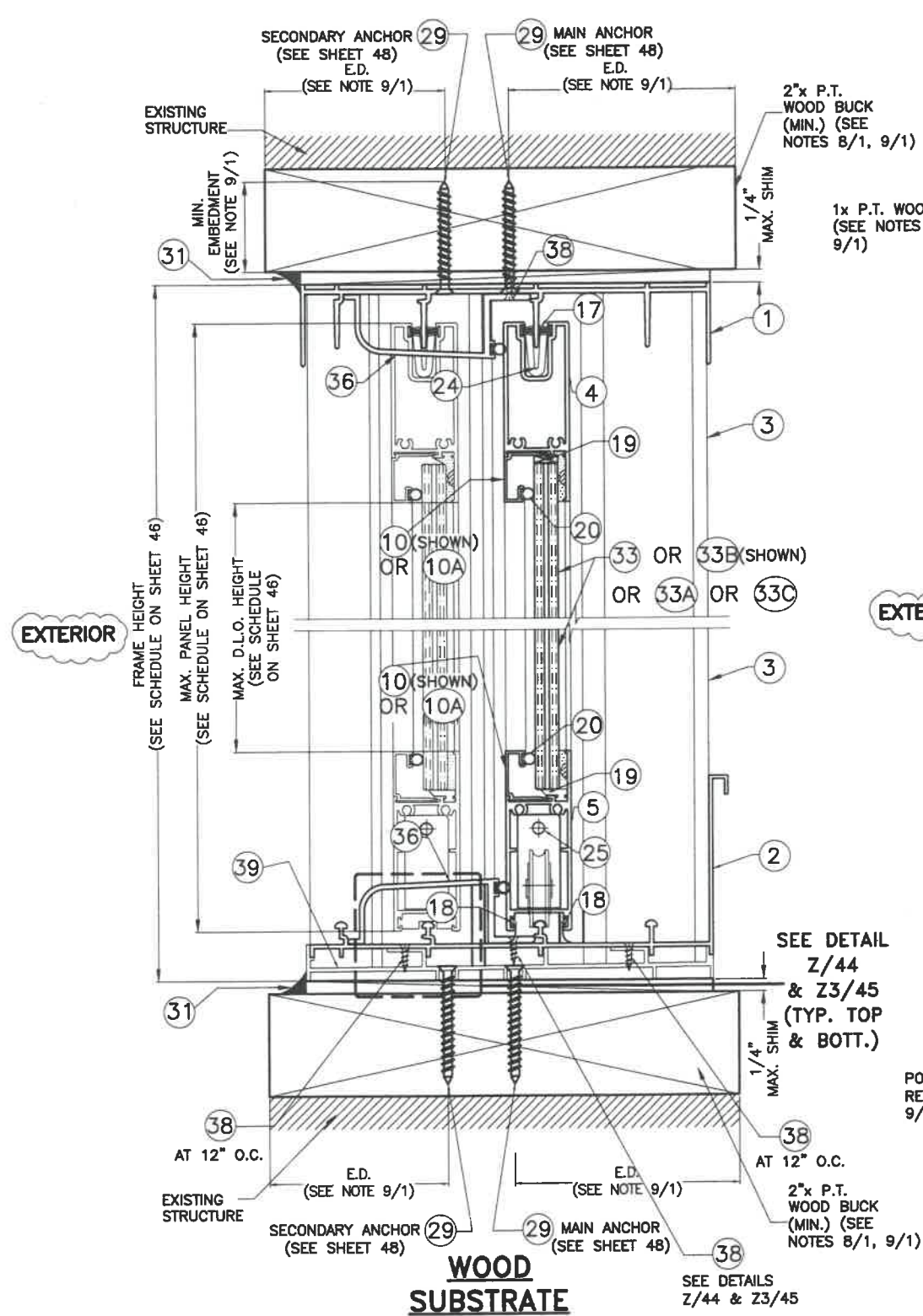
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DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-003	08/03/20	2		

SHEET 32 OF 49



*NOTE: SIMILAR DETAIL IS APPLICABLE FOR SILL. STRUCTURAL ADEQUACY OF SUBSTRATE SHALL BE VERIFIED BY BUILDING OFFICIAL.

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

SECTION B-B
(3) TRACK DOOR
SCALE: 3/8"=1"

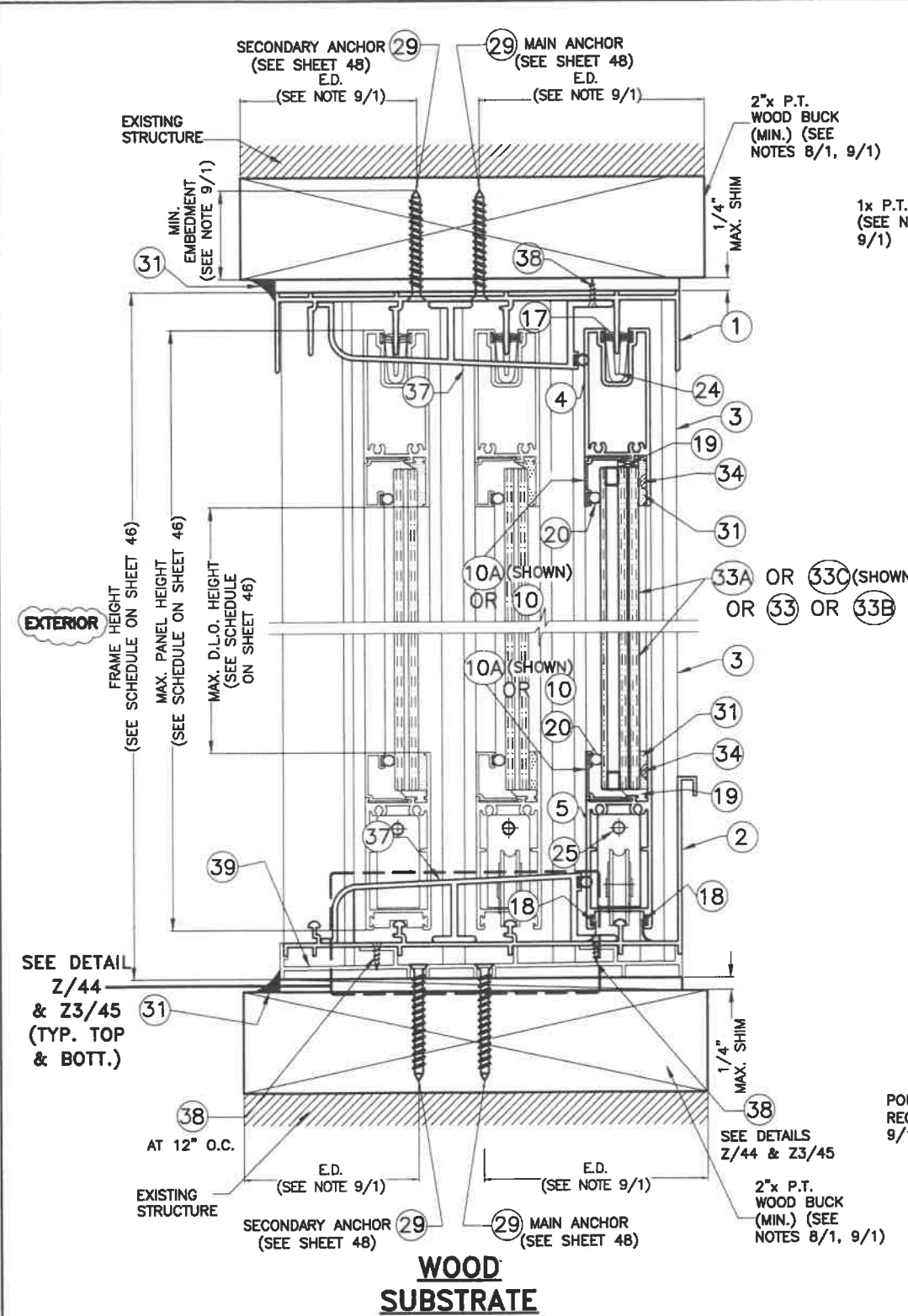
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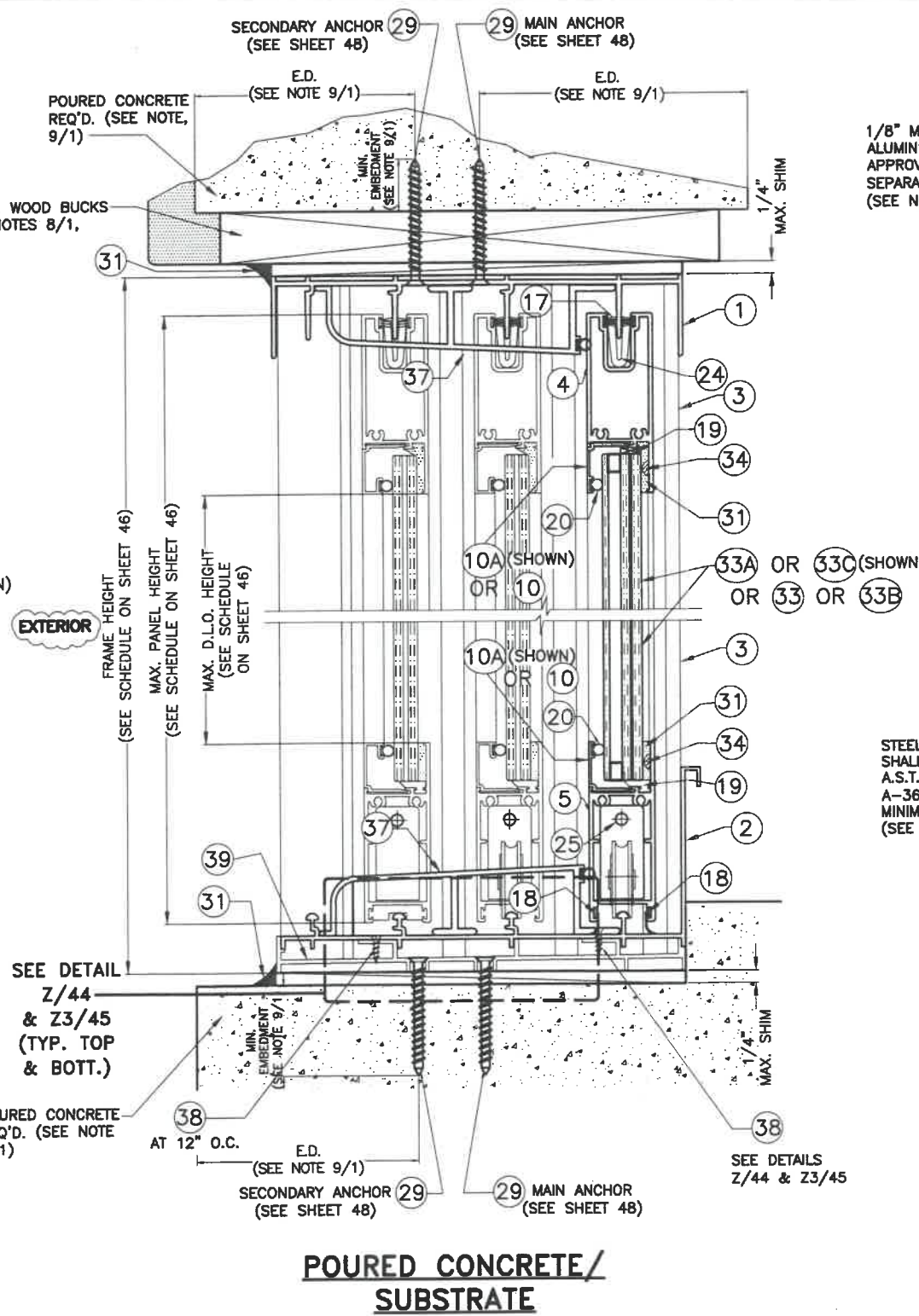
SERIES LAZH 13000 HIGH IMPACT REINFORCED SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS
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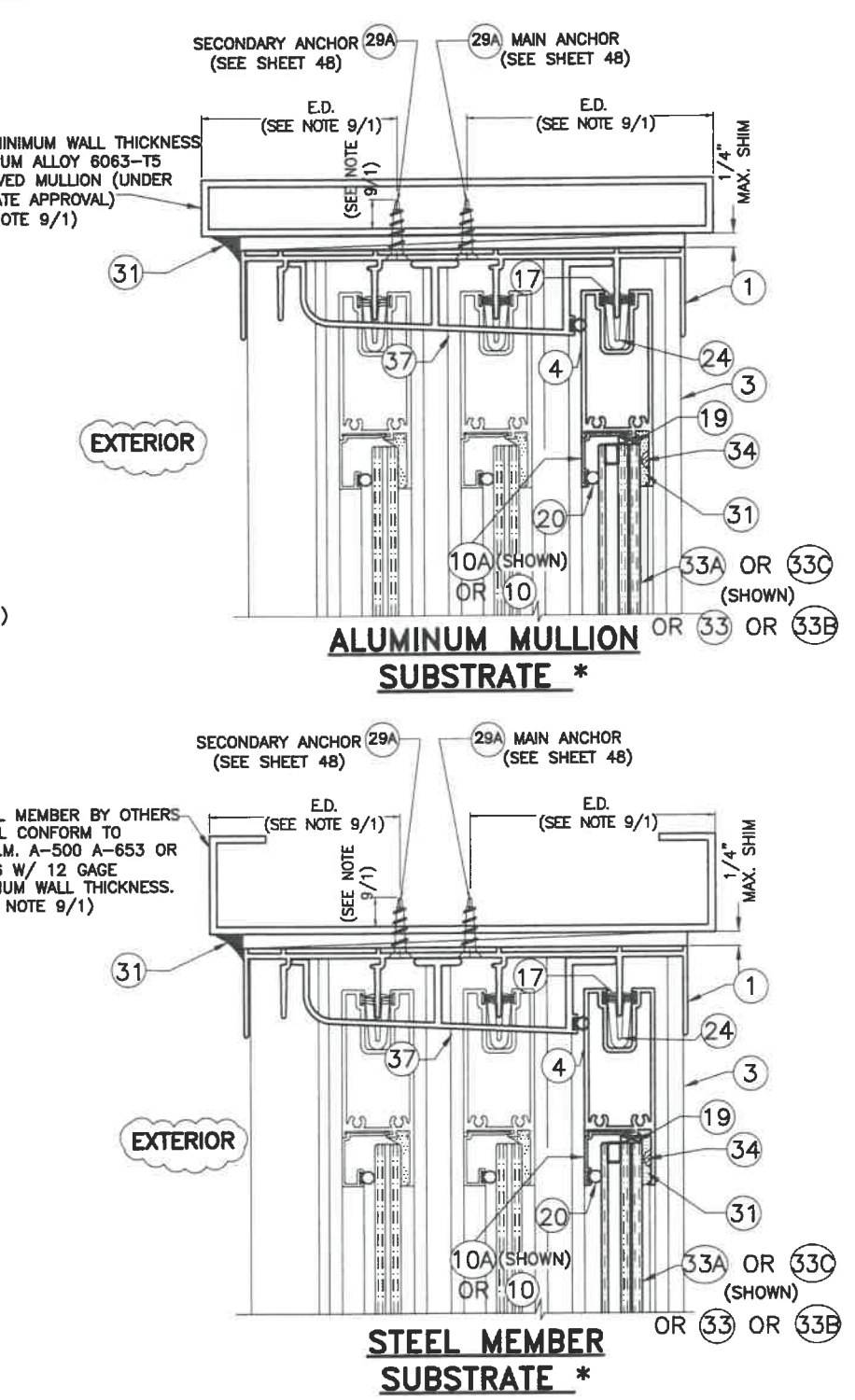
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**WOOD
SUBSTRATE**



**POURED CONCRETE/
SUBSTRATE**

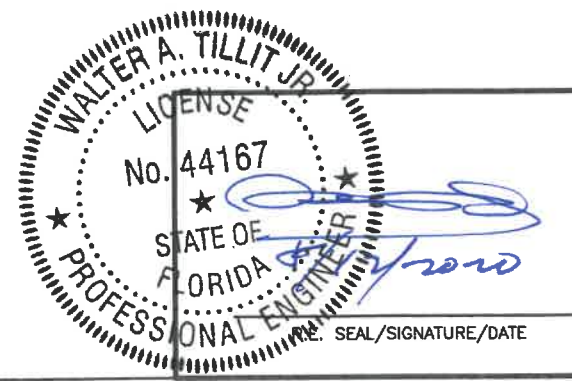


**ALUMINUM MULLION
SUBSTRATE ***

**STEEL MEMBER
SUBSTRATE ***

*NOTE: SIMILAR DETAIL IS APPLICABLE FOR SILL. STRUCTURAL ADEQUACY OF SUBSTRATE SHALL BE VERIFIED BY BUILDING OFFICIAL.

SECTION C-C **(3) TRACK DOOR** SCALE: 3/8"=1"



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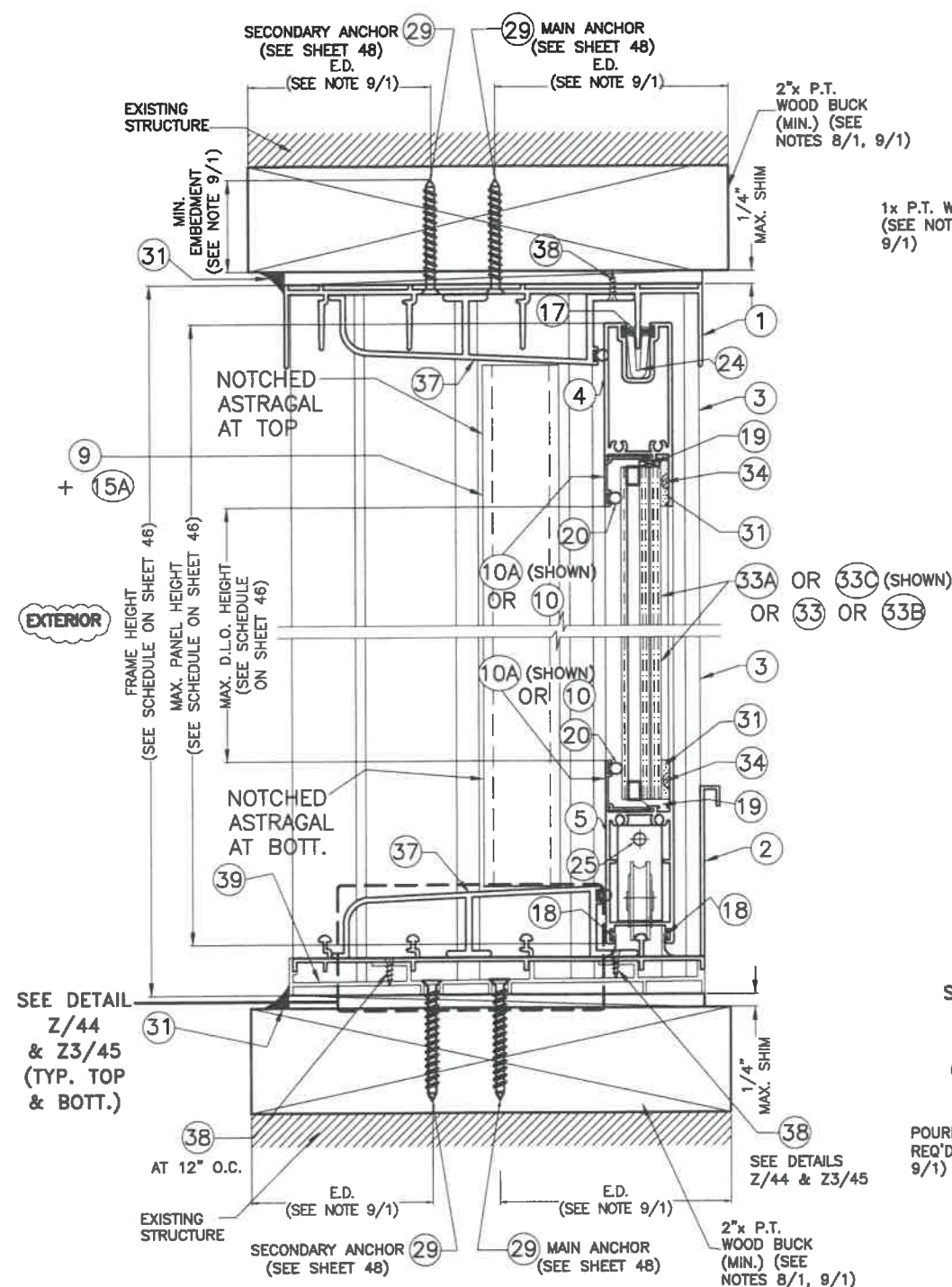
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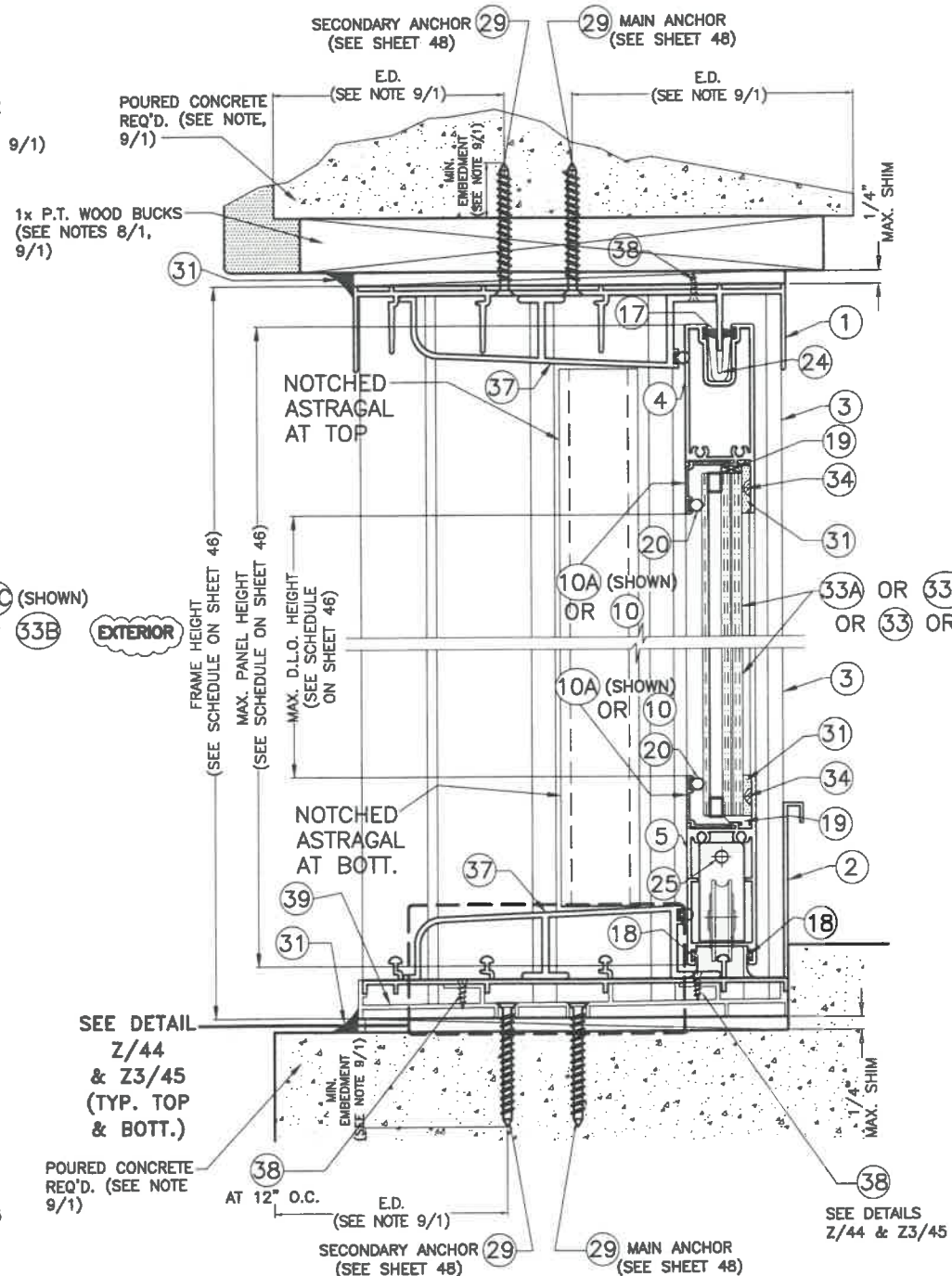
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SHEET 34 OF 49

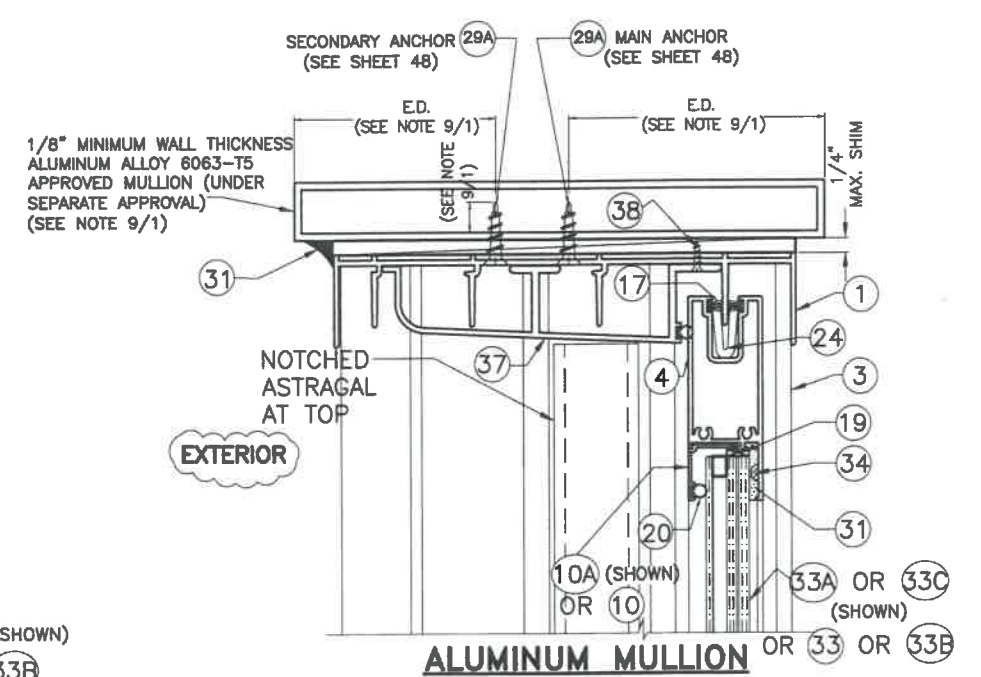
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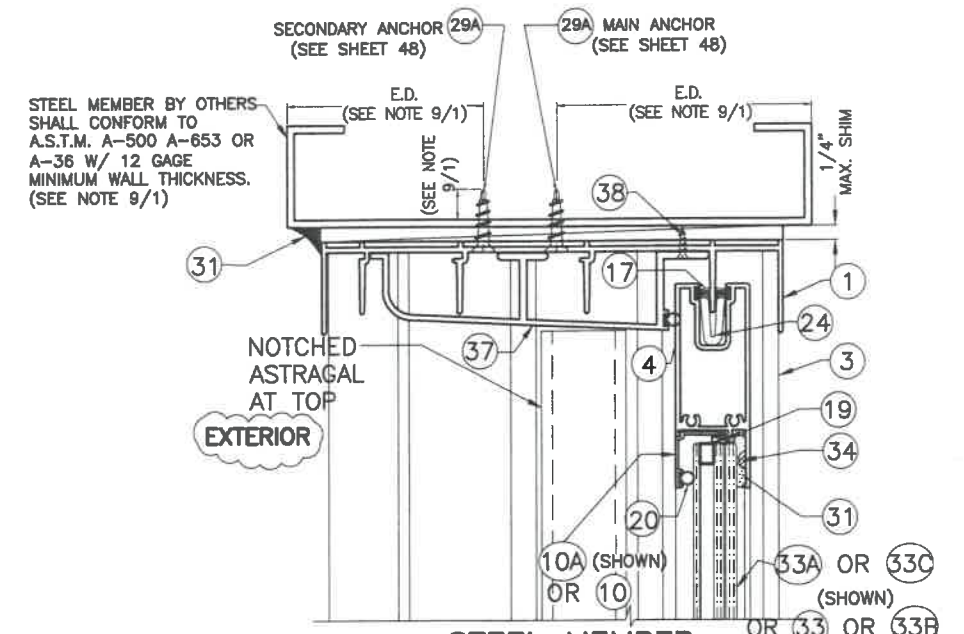
**WOOD
SUBSTRATE**



**POURED CONCRETE/
SUBSTRATE**



**ALUMINUM MULLION
SUBSTRATE ***



**STEEL MEMBER
SUBSTRATE ***

*NOTE: SIMILAR DETAIL IS APPLICABLE FOR SILL. STRUCTURAL ADEQUACY OF SUBSTRATE SHALL BE VERIFIED BY BUILDING OFFICIAL.

SECTION A'-A'
(3) TRACK DOOR
SCALE: 3/8"=1"



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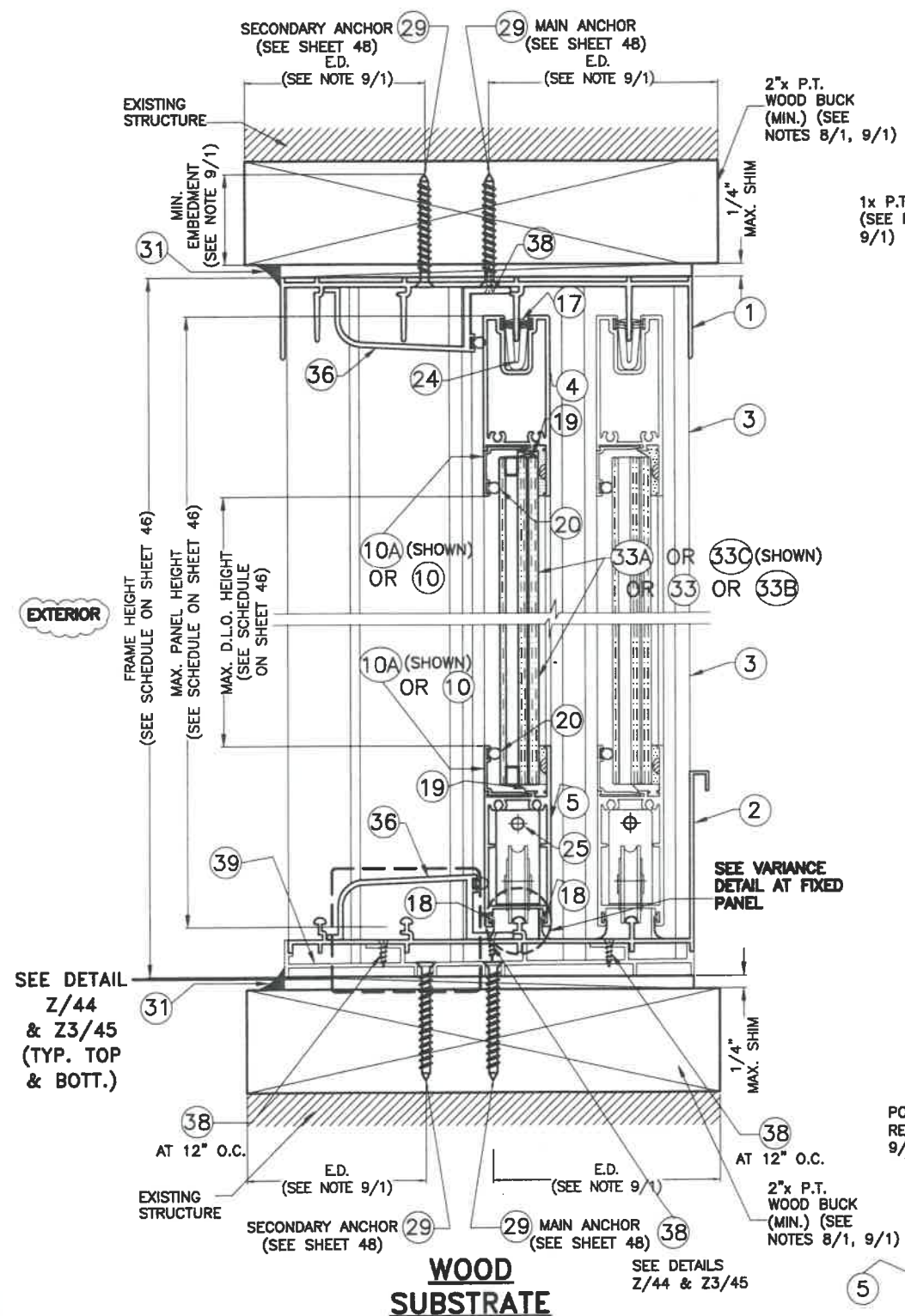
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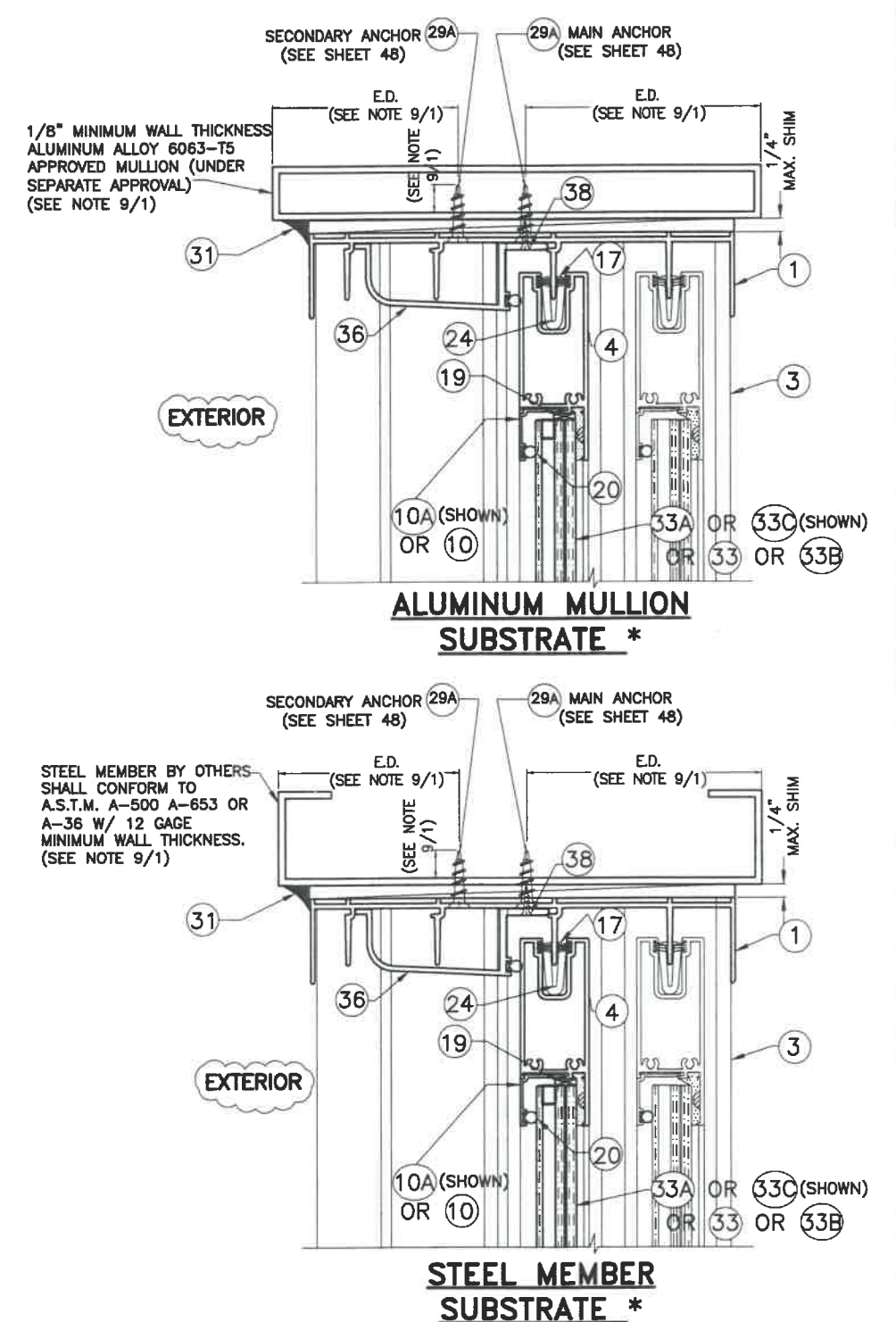
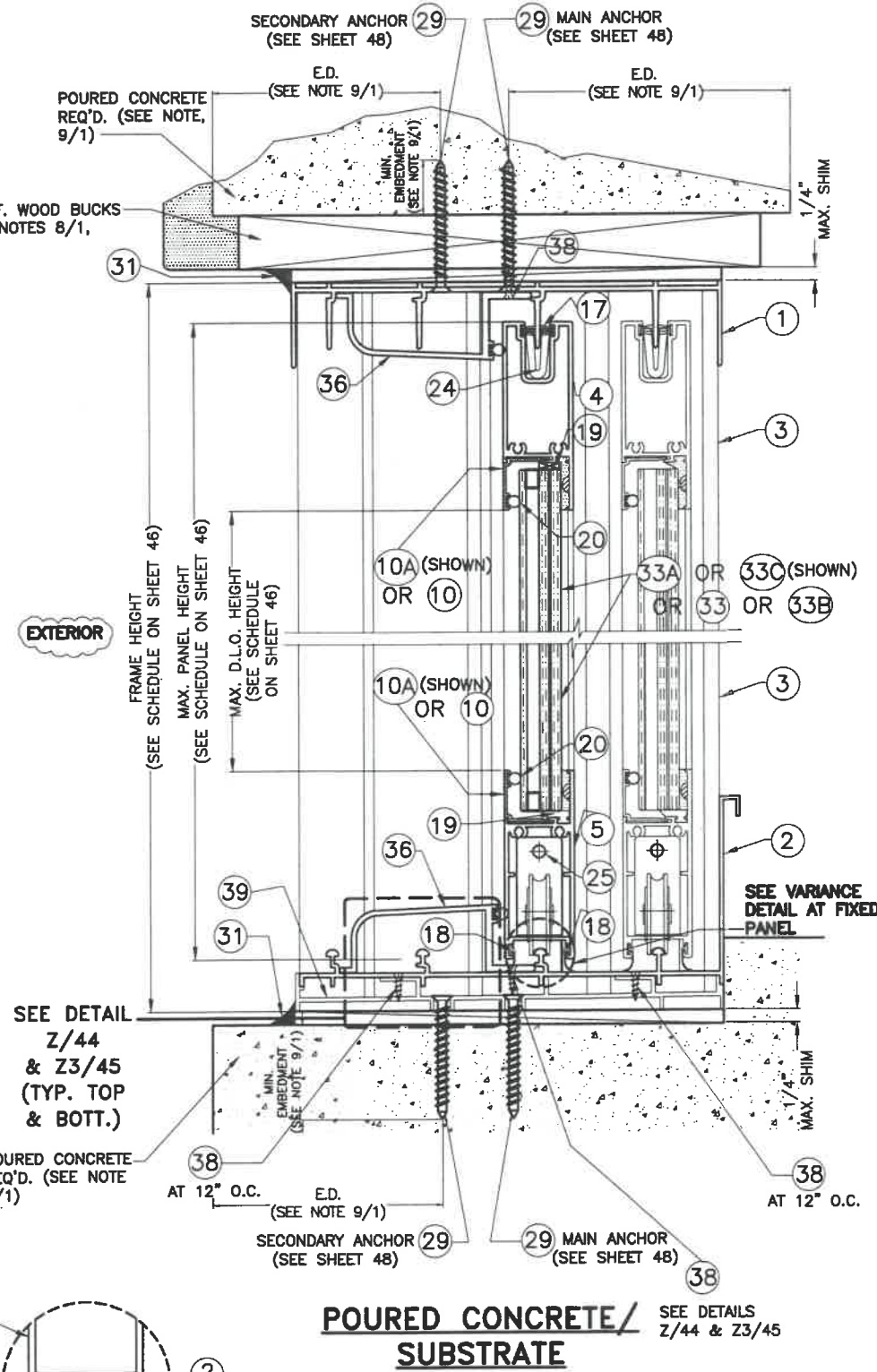
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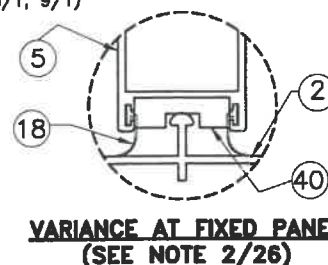
SHEET 35 OF 49



SECTION B'-B'
(3) TRACK DOOR
 SCALE: 3/8"=1"



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 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 P.E. SEAL/SIGNATURE/DATE

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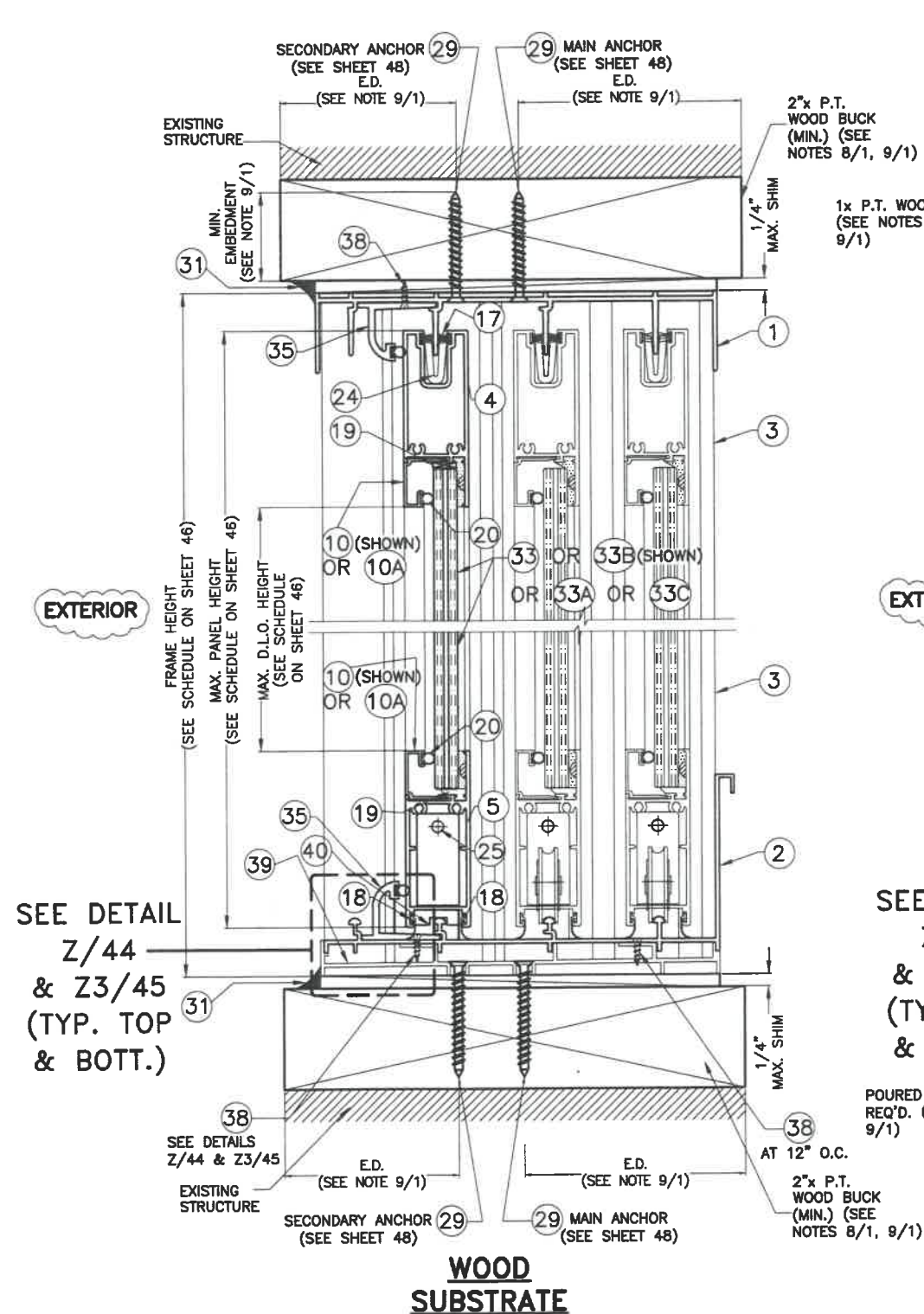
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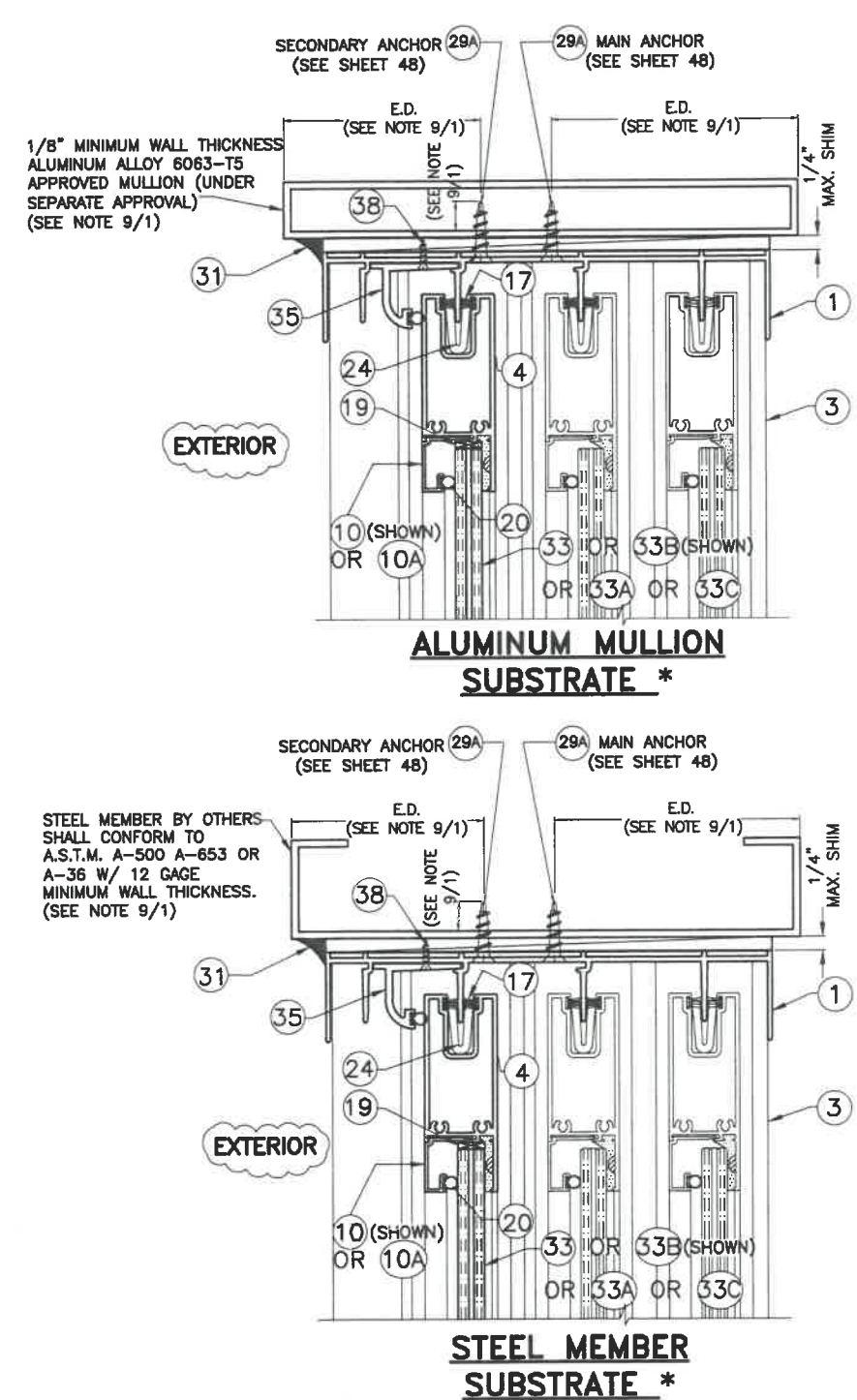
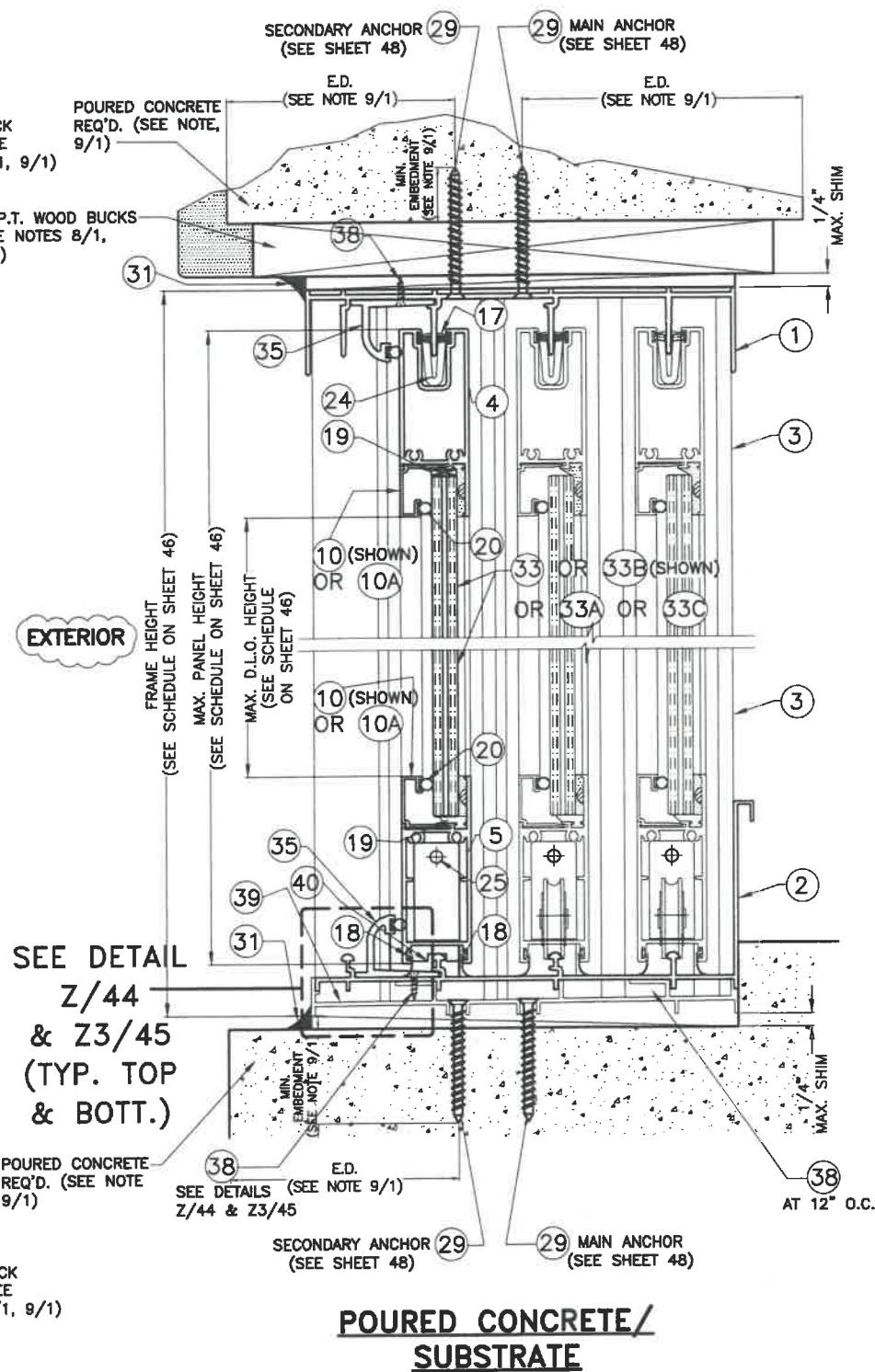
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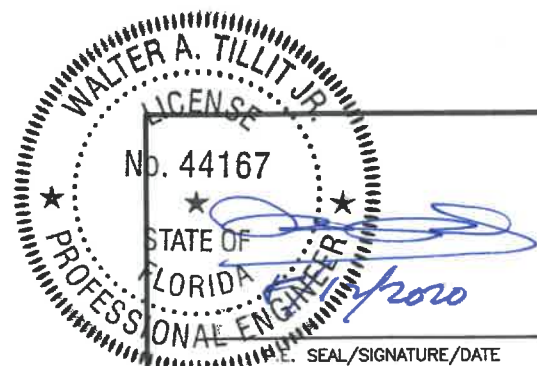
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SECTION C'-C'
(3) TRACK DOOR
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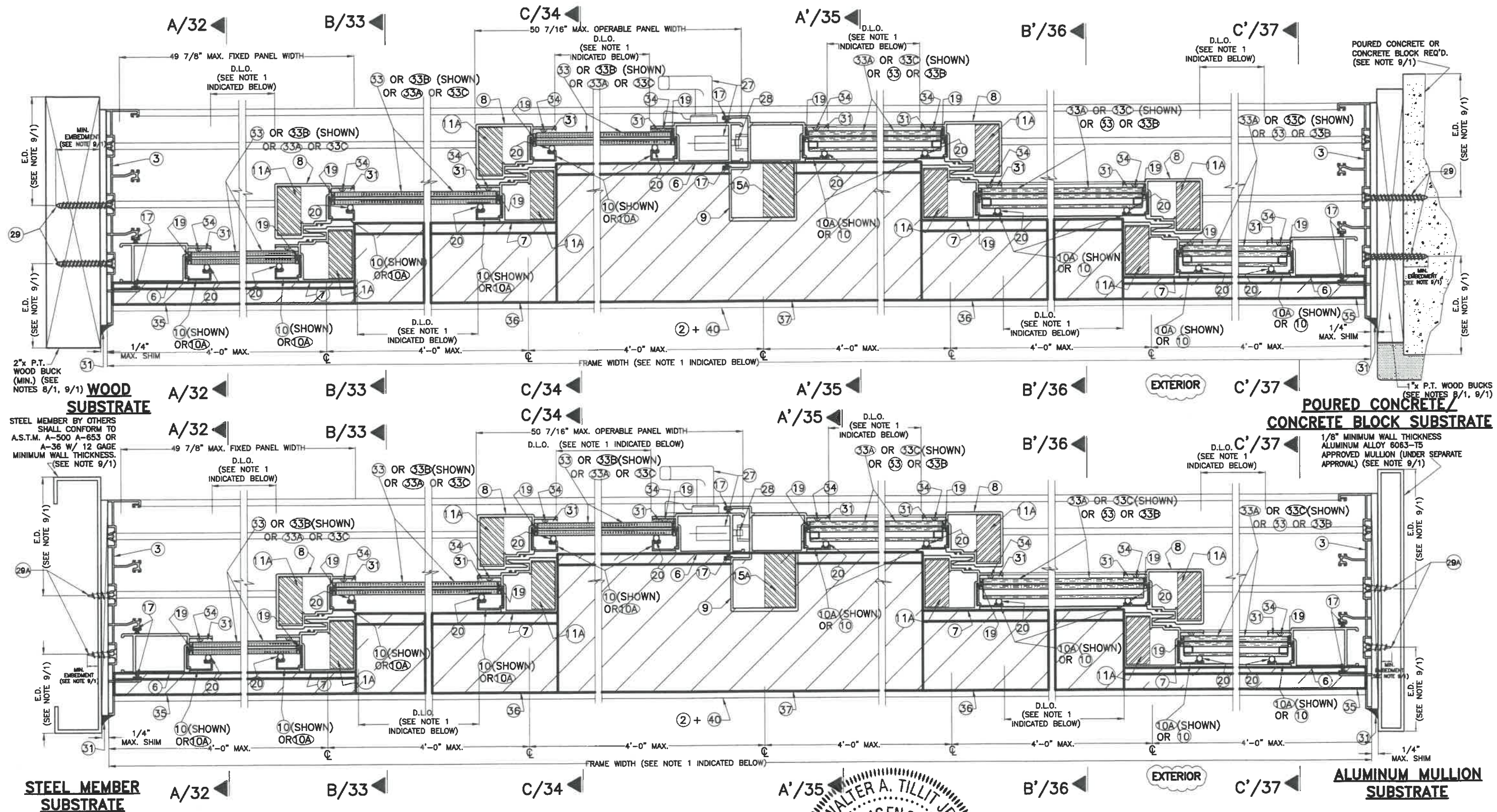
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SHEET 37 OF 49

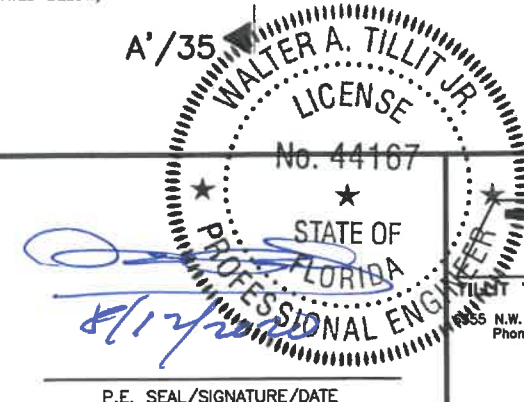


SECTION D-D (OXXXXO): THREE-TRACK DOOR

SCALE: 3/8"=1"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 46 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEETS 47 & 48.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.
3. SEE COVERS 35, 36 & 37 LAYOUT ON SHEETS 42 & 43.



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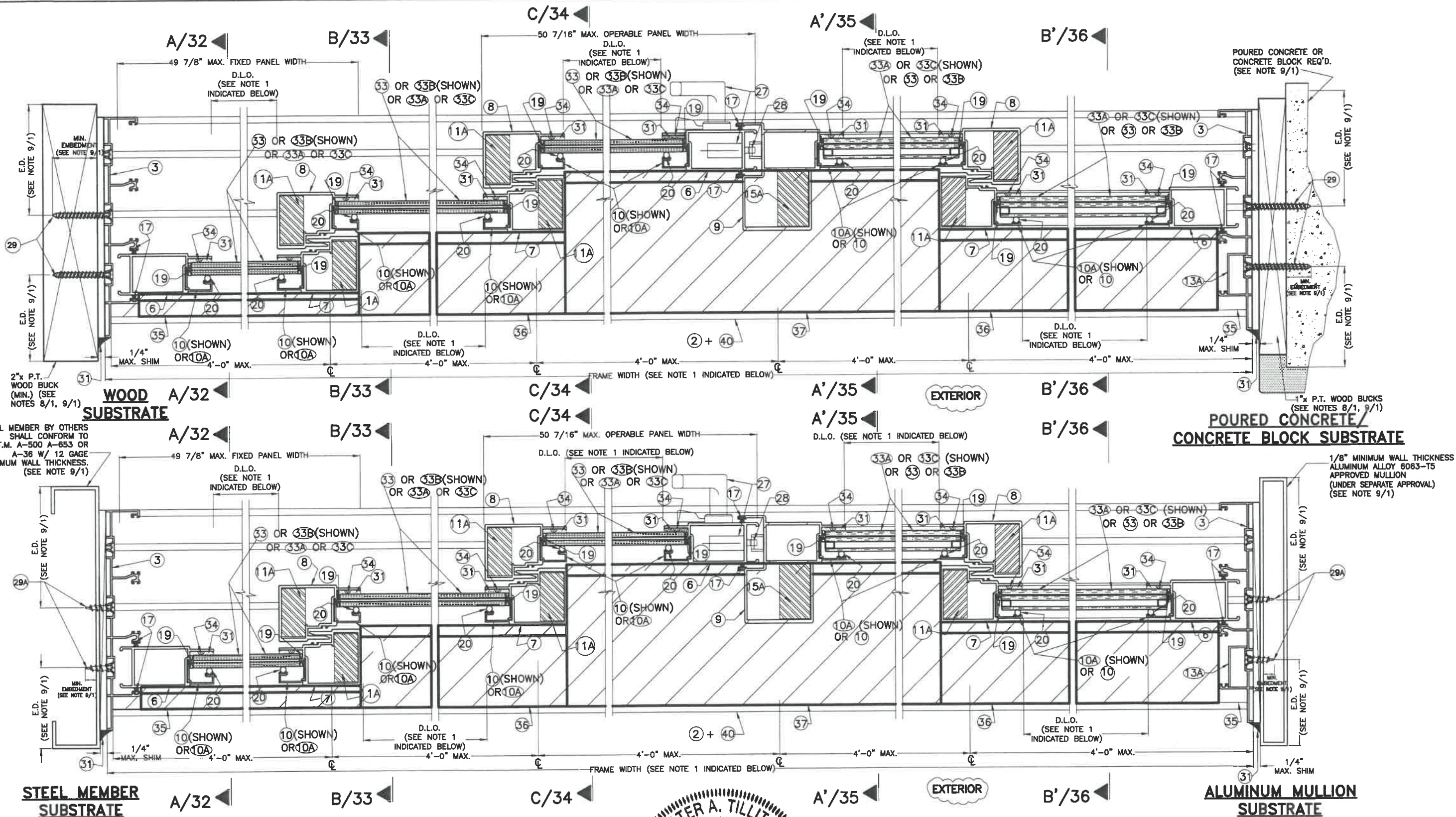
15002 N.W. 107 AVENUE SUITE # 1
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1	OLD 20-003	08/03/20	2		



SECTION E-E (OXXXO): THREE-TRACK DOOR

SCALE: 3/8"=1"

- NOTES:**
1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 46 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEETS 47 & 48.
 2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.
 3. SEE COVERS 35, 36 & 37 LAYOUT ON SHEETS 42 & 43.



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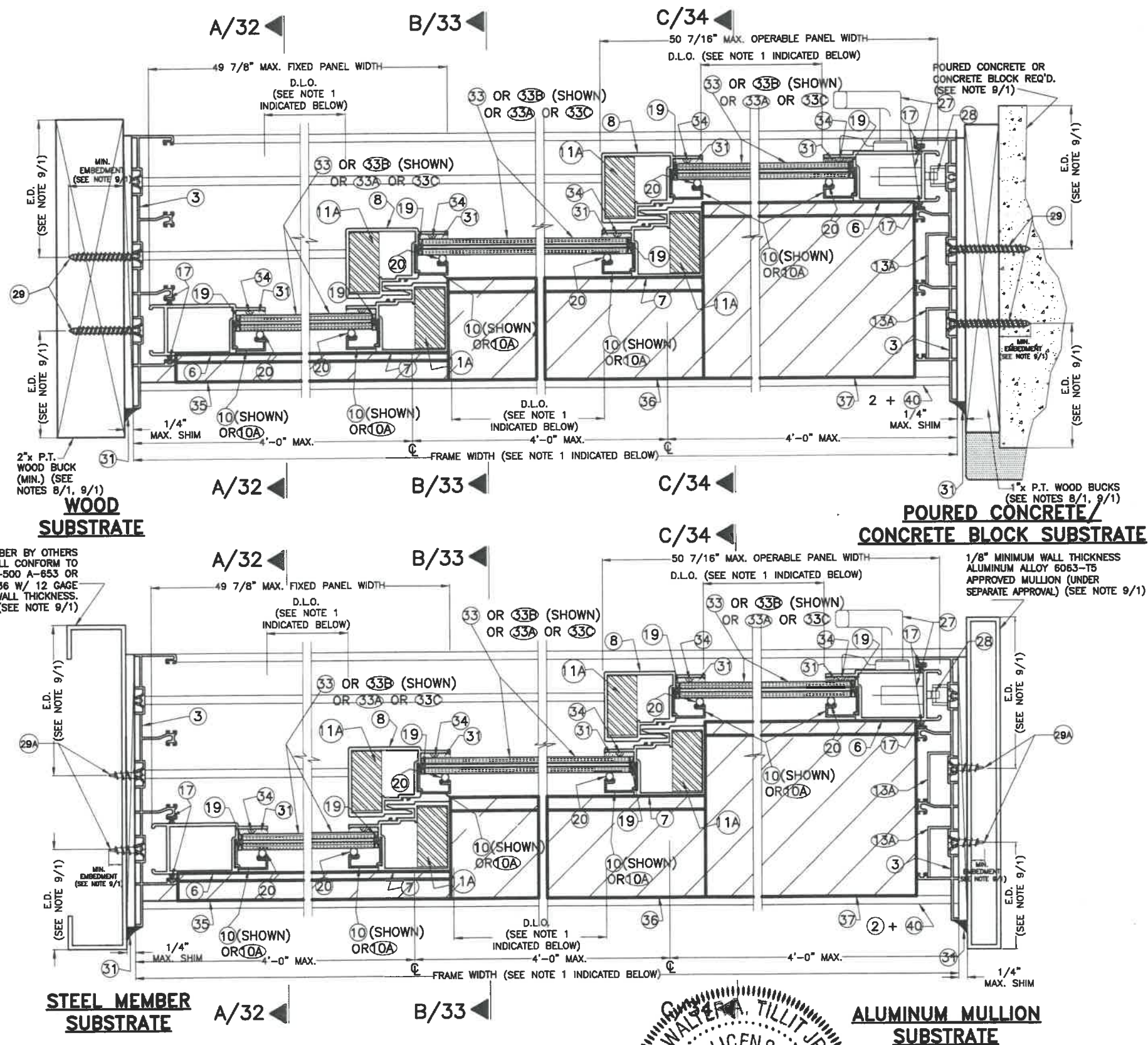
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1	OLD 20-003	08/03/20	2		

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08/03/2020
DATE

20-228
DRAWING No

SHEET 39 OF 49



SECTION F-F (OXX): THREE-TRACK DOOR

SCALE: 3/8"=1"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 46 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEETS 47 & 48.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.
3. SEE COVERS 35, 36 & 37 LAYOUT ON SHEETS 42 & 43.



ALUMINUM MULLION SUBSTRATE

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SERIES LAZH 13000 HIGH IMPACT REINFORCED SLIDING GLASS DOOR SMALL MISSILE/HIGH LOADS

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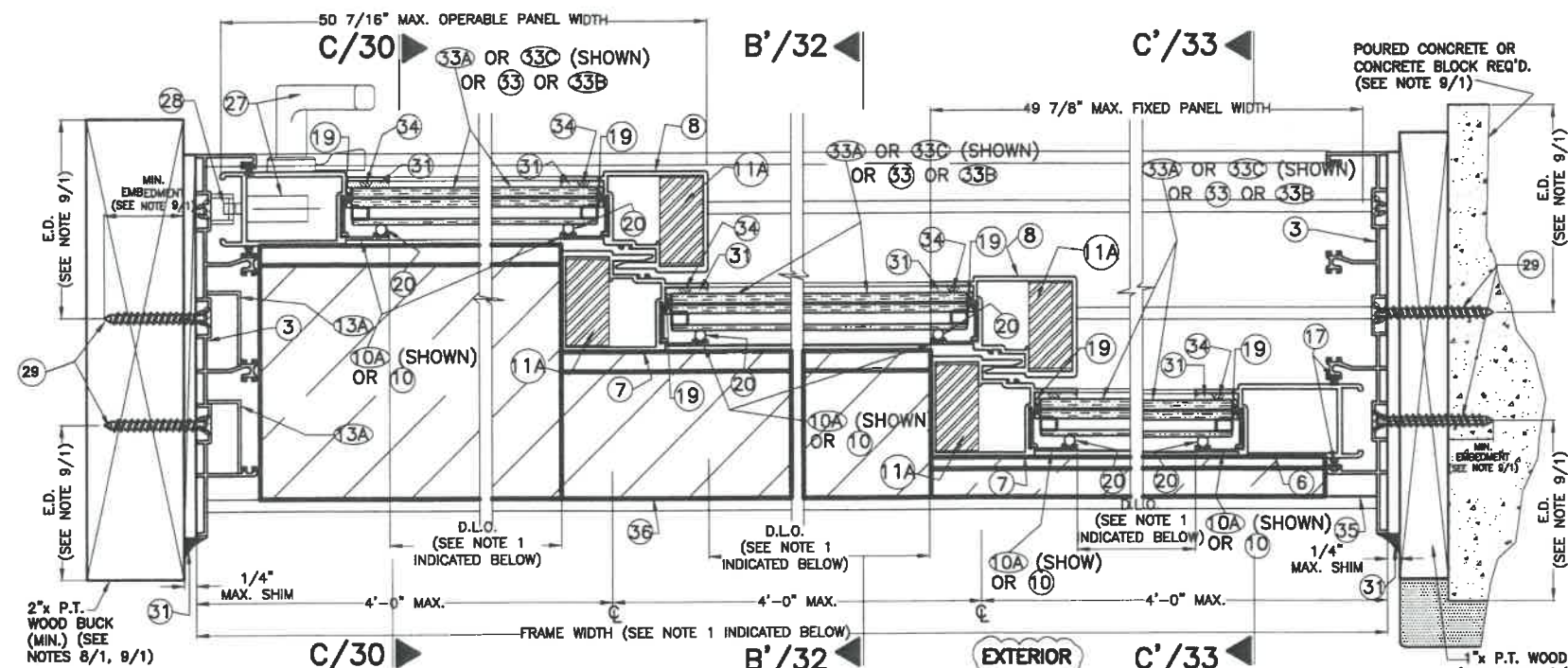
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SHEET 40 OF 49

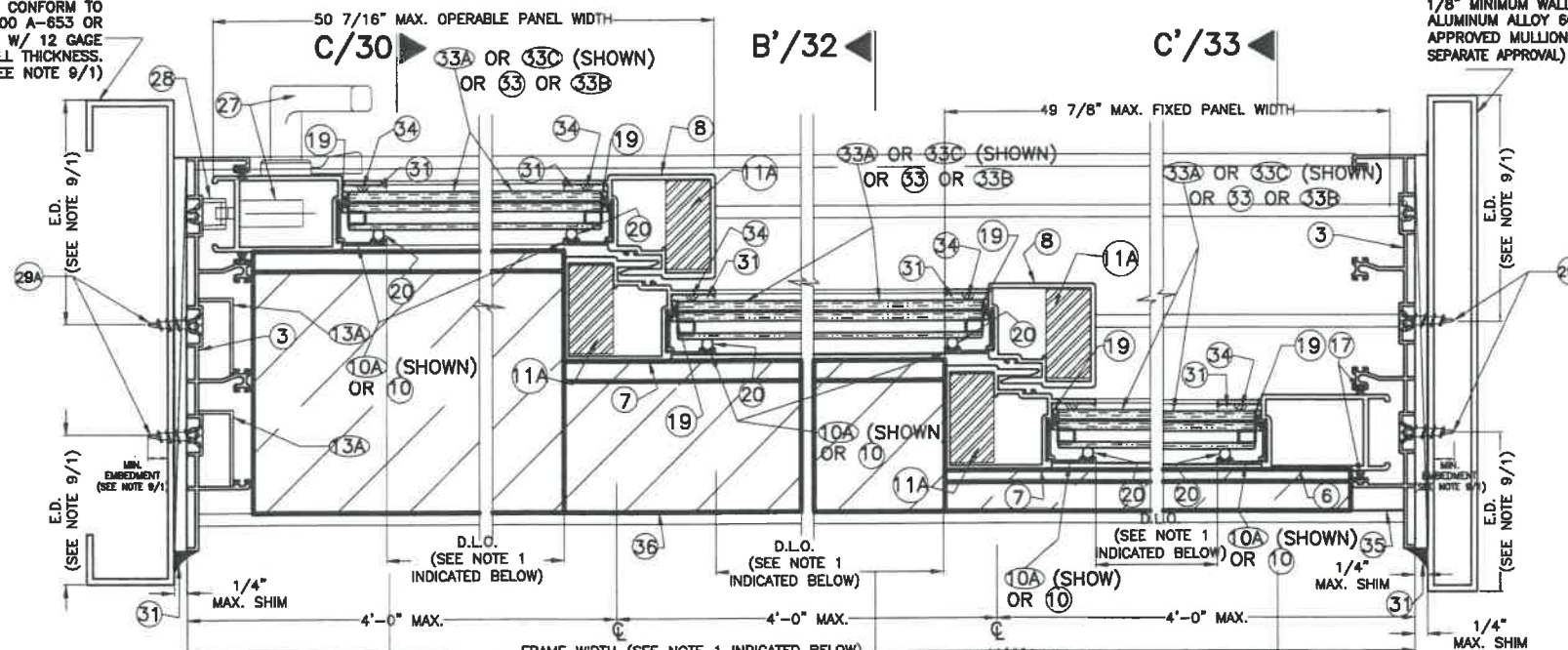


**WOOD
SUBSTRATE**

**POURED CONCRETE/
CONCRETE BLOCK SUBSTRATE**

STEEL MEMBER BY OTHERS
SHALL CONFORM TO
A.S.T.M. A-500 A-653 OR
A-36 W/ 12 GAGE
MINIMUM WALL THICKNESS.
(SEE NOTE 9/1)

1/8" MINIMUM WALL THICKNESS
ALUMINUM ALLOY 6063-T5
APPROVED MULLION (UNDER
SEPARATE APPROVAL) (SEE NOTE 9/1)



**STEEL MEMBER
SUBSTRATE**

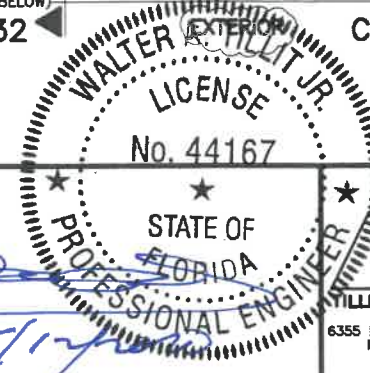
**ALUMINUM MULLION
SUBSTRATE**

SECTION G-G (XXO): THREE-TRACK DOOR

SCALE: 3/8"=1"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 46 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEETS 47 & 48.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.
3. SEE COVERS 35, 36 & 37 LAYOUT ON SHEETS 42 & 43.



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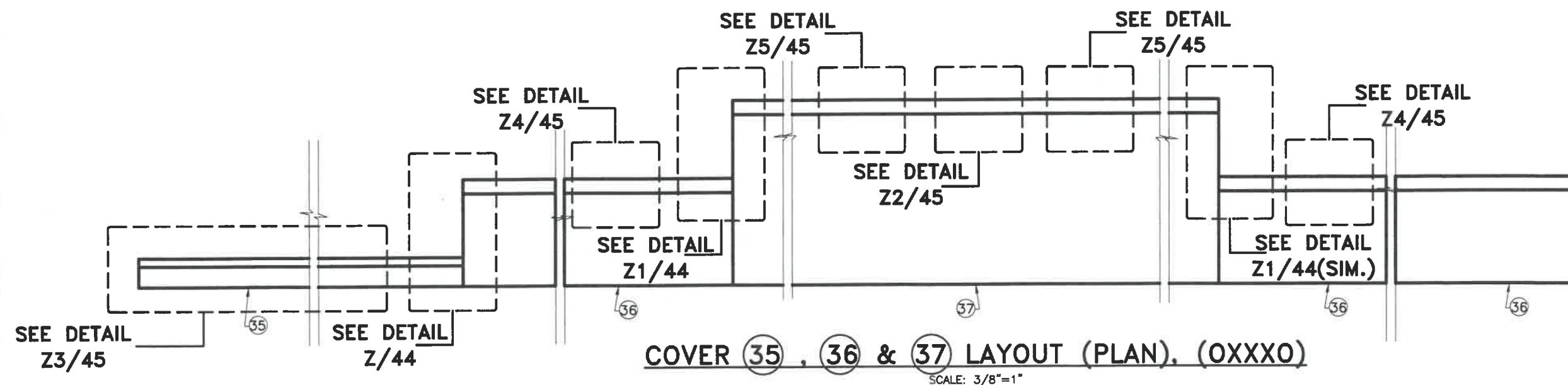
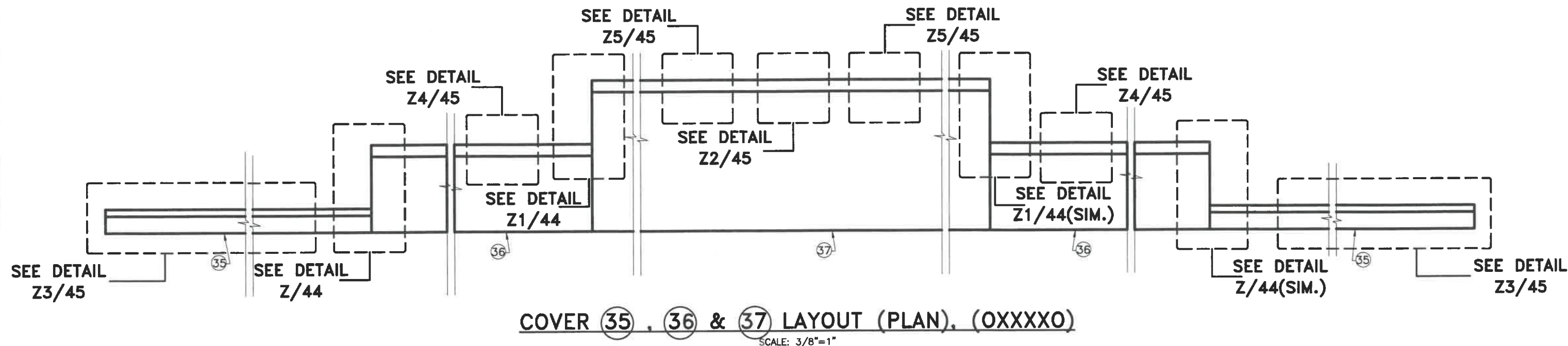
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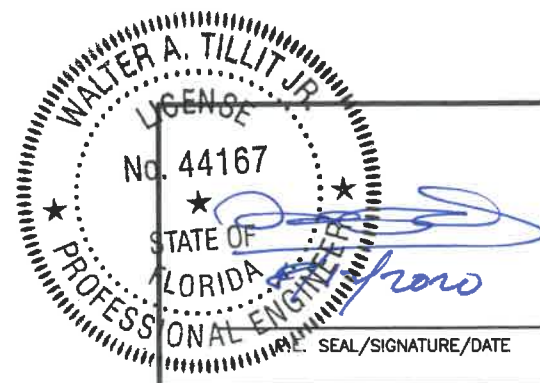
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SHEET 41 OF 49



THREE- TRACK DOOR



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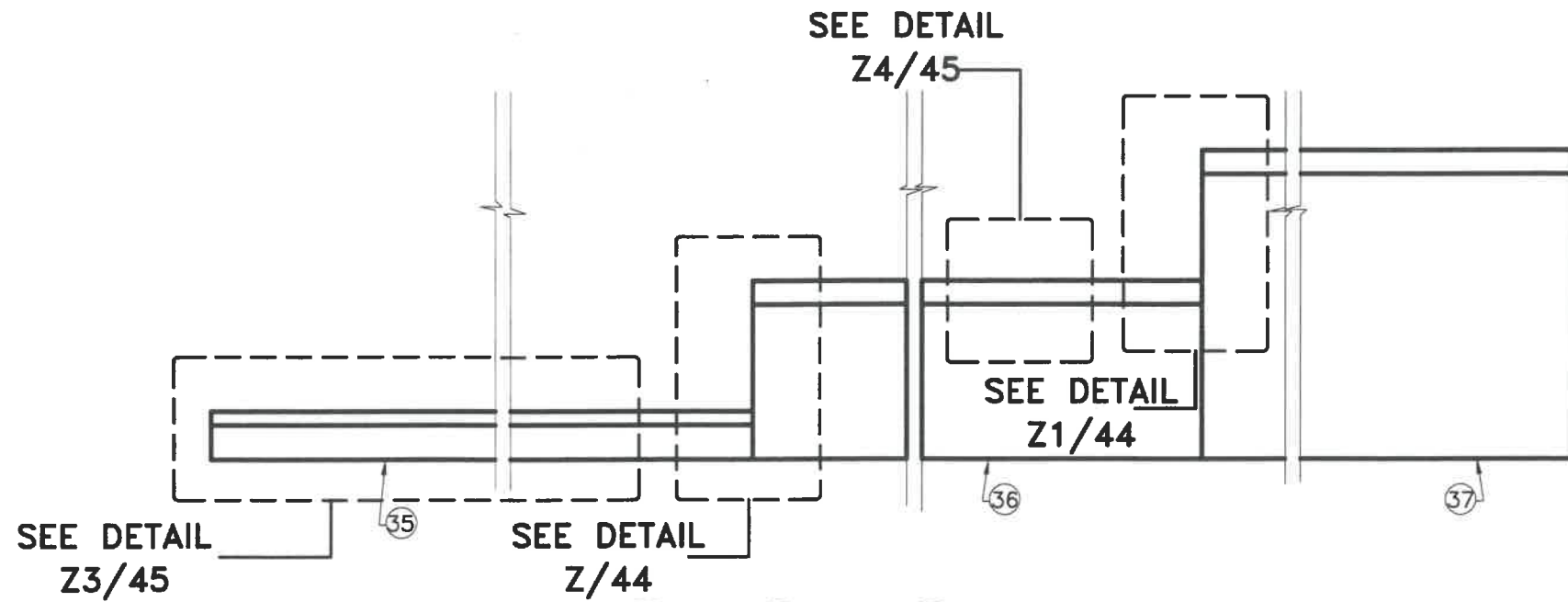
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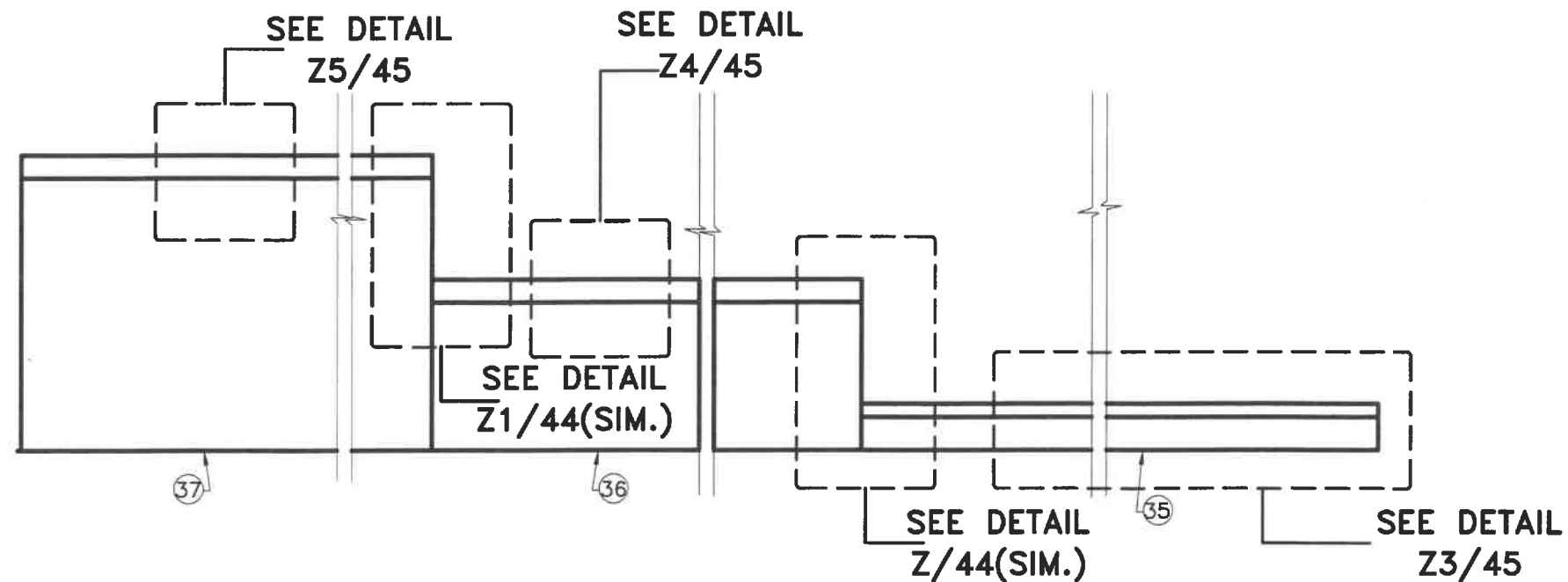
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SHEET 42 OF 49



COVER 35 , 36 & 37 LAYOUT (PLAN), (OXX)

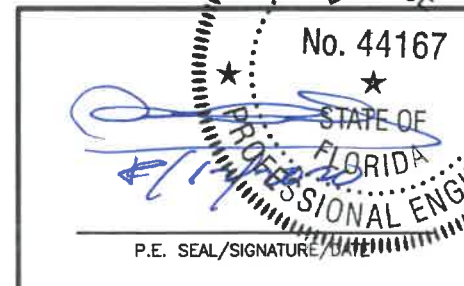
SCALE: 3/8"=1"



COVER 35 , 36 & 37 LAYOUT (PLAN), (XXO)

SCALE: 3/8"=1"

THREE- TRACK DOOR



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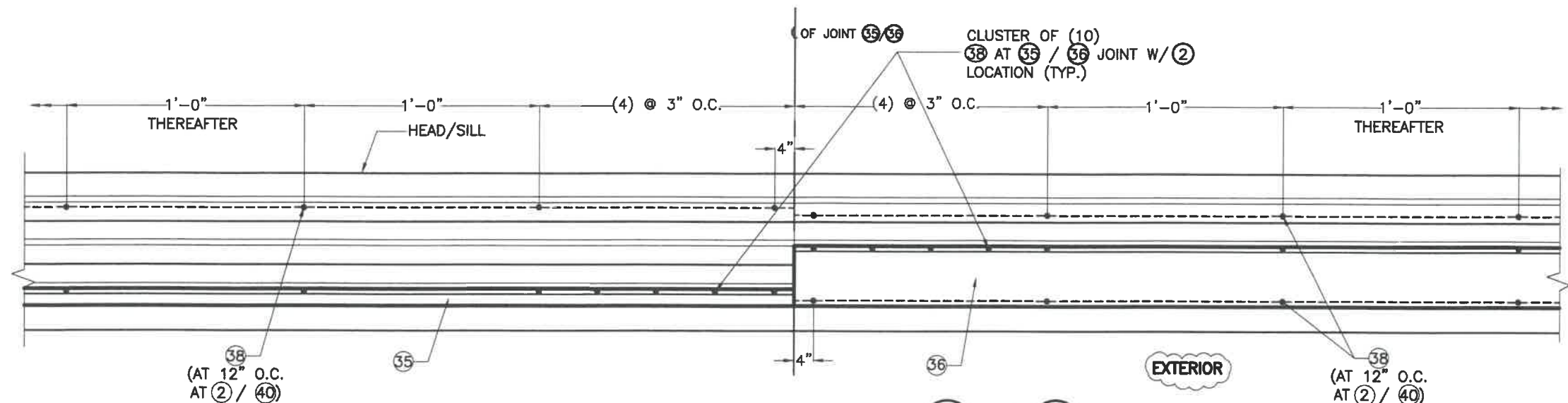
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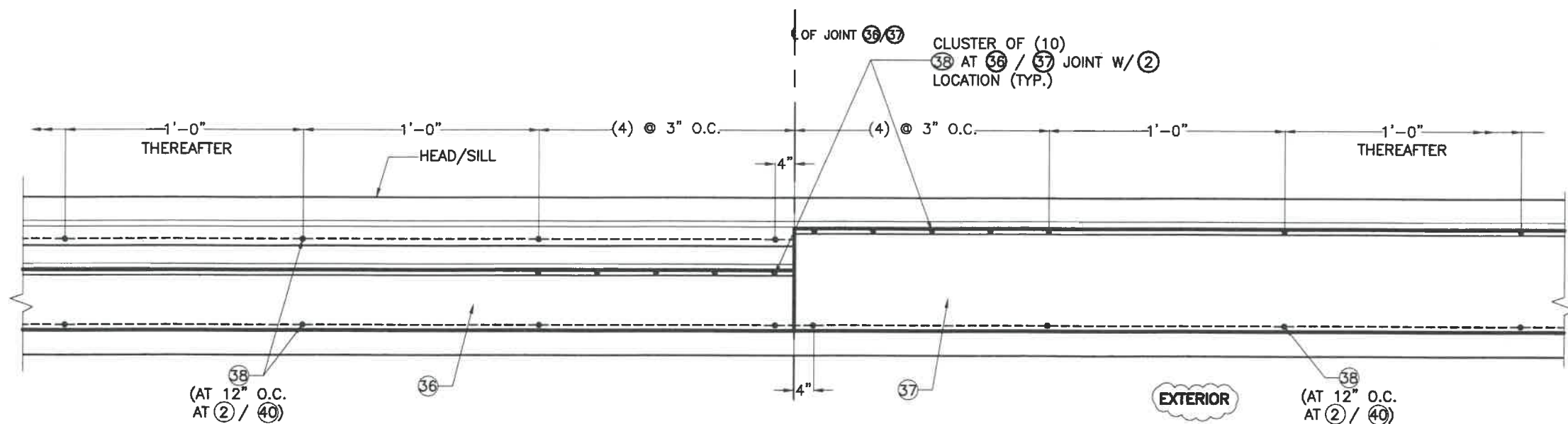
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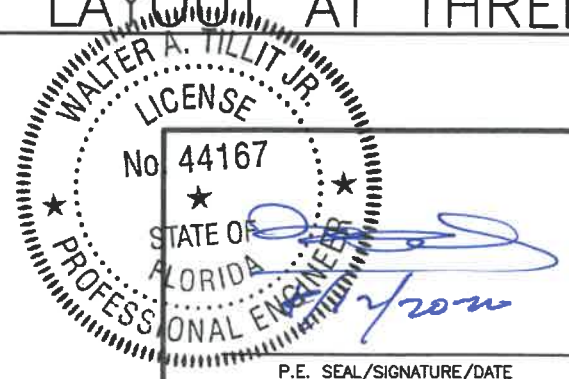


DETAIL Z-Z: JOINT OF 35 / 36
HEAD & SILL CASE
N.T.S.



DETAIL Z1-Z1: JOINT OF 36 / 37
HEAD & SILL CASE
N.T.S.

COVERS CONNECTION LAYOUT AT THREE-TRACK DOOR



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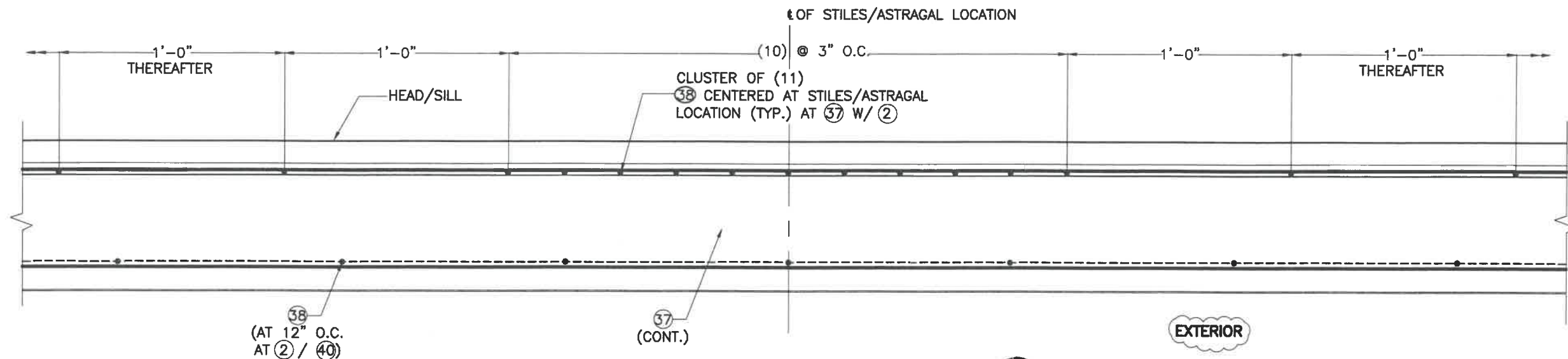
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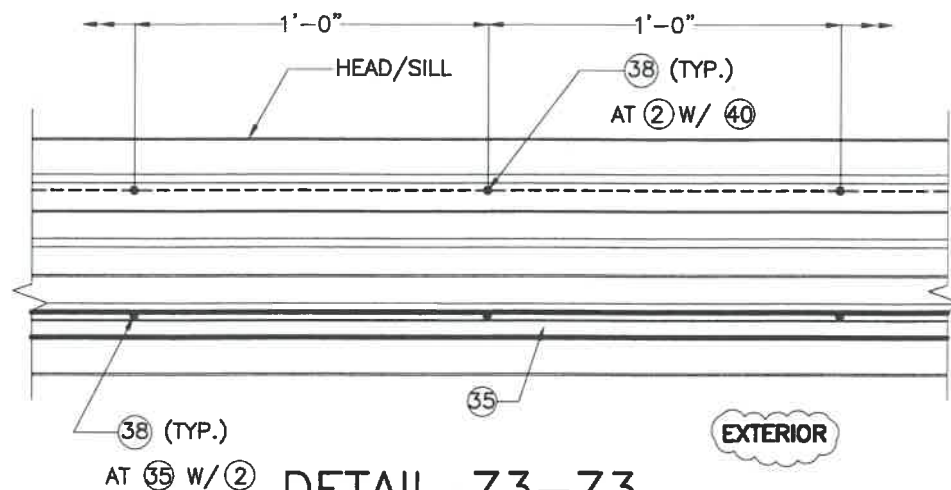
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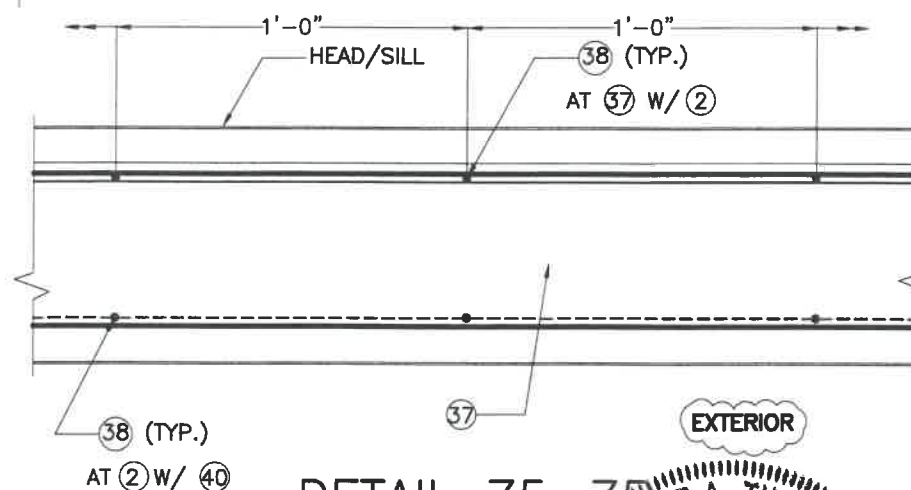
SHEET 44 OF 49



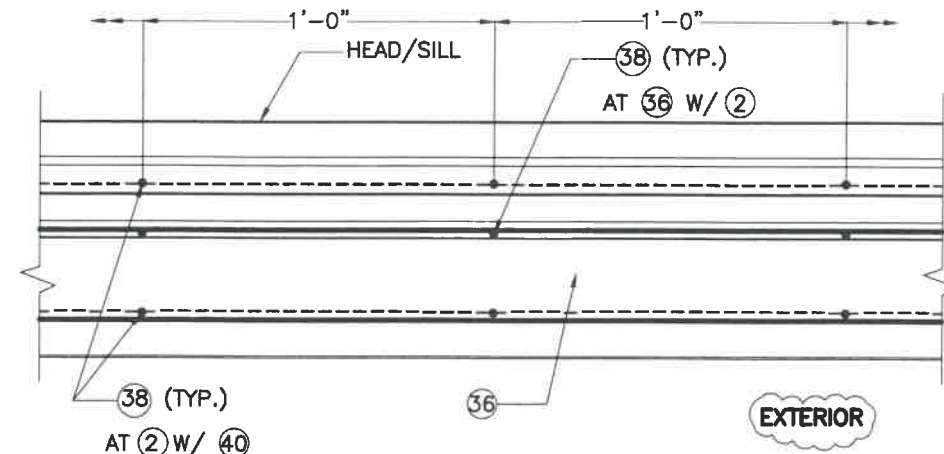
DETAIL Z2-Z2: CENTER OF 37
HEAD & SILL CASE
N.T.S.



DETAIL Z3-Z3
HEAD & SILL CASE
N.T.S.



DETAIL Z5-Z5
HEAD & SILL CASE
N.T.S.



DETAIL Z4-Z4
HEAD & SILL CASE
N.T.S.

COVERS CONNECTION LAYOUT AT THREE-TRACK DOOR

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SHEET 45 OF 49

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR A MAXIMUM
FRAME HEIGHT, FRAME WIDTH, D.L.O. HEIGHT & D.L.O. WIDTH

MAX. A.S.D. DESIGN PRESSURE RATING	MAXIMUM FRAME HEIGHT	MAXIMUM FRAME WIDTH	MAXIMUM D.L.O. HEIGHT	MAXIMUM D.L.O. WIDTH	MAX. FIXED PANEL WIDTH	MAX. OPERABLE PANEL WIDTH	MAXIMUM PANEL HEIGHT
+100, -100 psf & 15 psf AT WATER	115"	24'-1/4"	105 3/4"	43 1/2"	49 7/8"	50 7/16"	112 3/4"
+100, -110 psf & 15 psf AT WATER	113"	24'-1/4"	103 3/4"	43 1/2"	49 7/8"	50 7/16"	110 3/4"
+100, -115 psf & 15 psf AT WATER	111"	24'-1/4"	101 3/4"	43 1/2"	49 7/8"	50 7/16"	108 3/4"
+100, -119 psf & 15 psf AT WATER	109"	24'-1/4"	99 3/4"	43 1/2"	49 7/8"	50 7/16"	106 3/4"
+100, -128 psf & 15 psf AT WATER	107"	24'-1/4"	97 3/4"	43 1/2"	49 7/8"	50 7/16"	104 3/4"
+100, -137 psf & 15 psf AT WATER	105"	24'-1/4"	95 3/4"	43 1/2"	49 7/8"	50 7/16"	102 3/4"

THREE-TRACK DOOR

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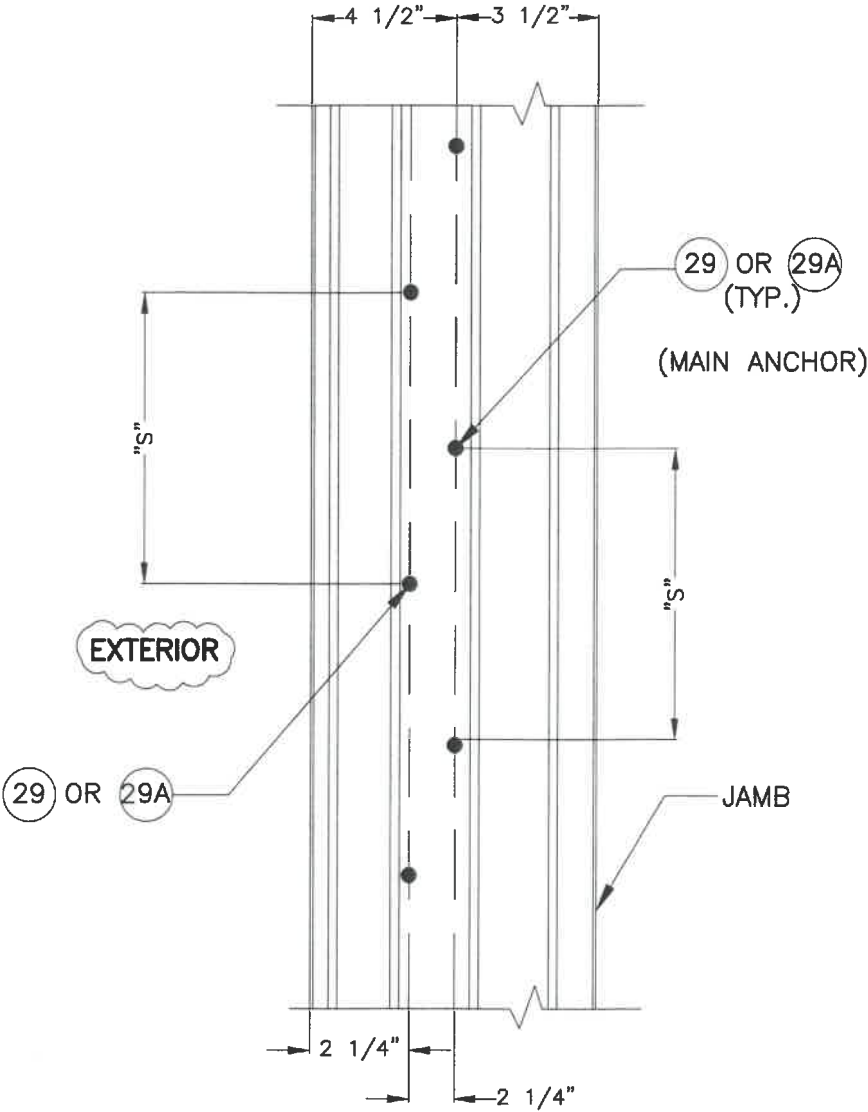
SHEET 46 OF 49

MAXIMUM ANCHORS SPACING "S" * AT JAMBS CONNECTION SCHEDULE
FOR A GIVEN ANCHOR TYPE, SUBSTRATE & MAX. A.S.D. DESIGN
PRESSURE RATING

MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	JAMBS: (2) ANCHORS @ SPACING "S" FOR 29 OR 29A (SEE DETAIL Y-Y)
** 115" OR 113" OR 111" OR 109" OR 107" OR 105"	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	POURED CONCRETE OR CONCRETE BLOCK	+100, -100 psf	8" o.c.
			+100, -110 psf	8" o.c.
			+100, -120 psf	8" o.c.
			+100, -130 psf	8" o.c.
	5/16"Ø ITW/ BUILDEX TAPCON XL (29)	WOOD	+100, -137 psf	8 o.c.
			+100, -100 psf	8" o.c.
			+100, -110 psf	8" o.c.
			+100, -120 psf	8" o.c.
			+100, -130 psf	8" o.c.
			+100, -137 psf	8" o.c.
	5/16"Ø KANEBRIDGE AISI 410 HT SERIES (29A)	ALUMINUM MULLION OR STEEL MEMBER	+100, -100 psf	8" o.c.
			+100, -110 psf	8" o.c.
			+100, -120 psf	8" o.c.
			+100, -130 psf	8" o.c.
			+100, -137 psf	8" o.c.

* CORRESPONDS TO THE SPACING OF TWO STAGGERED ANCHORS (SEE DETAIL Y)

** SEE SHEET 46 FOR APPLICABLE DESIGN PRESSURE RATINGS



DETAIL Y-Y
JAMB CASE
N.T.S.

THREE-TRACK DOOR

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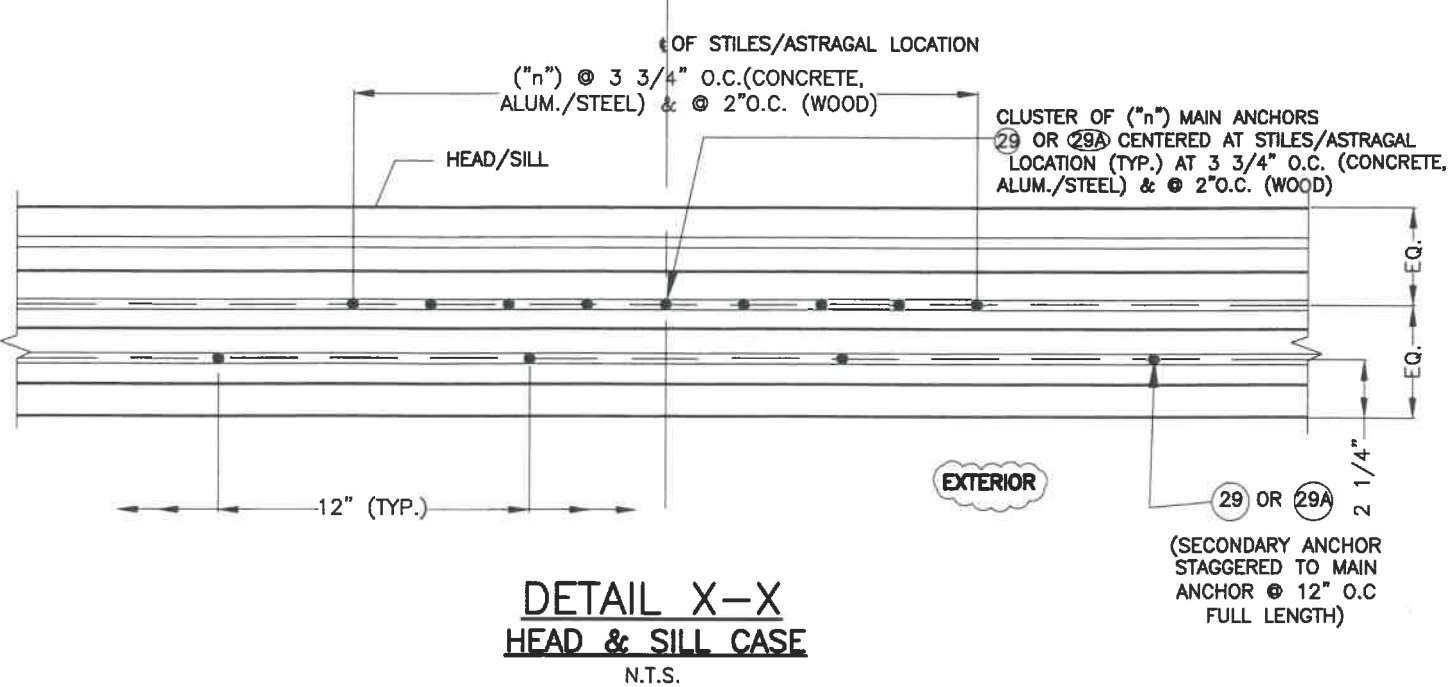
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NUMBER OF ANCHORS AT CLUSTER ◊ AT HEAD & SILL CONNECTION SCHEDULE FOR A GIVEN ANCHOR TYPE, SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE RATING *

MAXIMUM FRAME RANGE HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	HEAD/SILL "n" # OF MAIN ANCHORS ◊
>110" TO 115"	5/16"Ø ITW/BUILDEX TAPCON XL (29)	POURED CONCRETE	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
	5/16"Ø ITW/BUILDEX TAPCON XL (29)	WOOD	+100, -100 psf	17
			+100, -110 psf	17
			+100, -120 psf	19
	5/16"Ø KANEBRIDGE AISI 410 HT SERIES (29A)	ALUMINUM MULLION OR STEEL MEMBER	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
>105" TO 110"	5/16"Ø ITW/BUILDEX TAPCON XL (29)	POURED CONCRETE	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
			+100, -130 psf	9
			+100, -137 psf	9
	5/16"Ø ITW/BUILDEX TAPCON XL (29)	WOOD	+100, -100 psf	15
			+100, -110 psf	15
			+100, -120 psf	17
			+100, -130 psf	19
			+100, -137 psf	19
	5/16"Ø KANEBRIDGE AISI 410 HT SERIES (29A)	ALUMINUM MULLION OR STEEL MEMBER	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
			+100, -130 psf	9
			+100, -137 psf	9
105" OR LESS	5/16"Ø ITW/BUILDEX TAPCON XL (29)	POURED CONCRETE	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
			+100, -130 psf	9
			+100, -137 psf	9
	5/16"Ø ITW/BUILDEX TAPCON XL (29)	WOOD	+100, -100 psf	13
			+100, -110 psf	13
			+100, -120 psf	15
			+100, -130 psf	17
			+100, -137 psf	17
	5/16"Ø KANEBRIDGE AISI 410 HT SERIES (29A)	ALUMINUM MULLION OR STEEL MEMBER	+100, -100 psf	9
			+100, -110 psf	9
			+100, -120 psf	9
			+100, -130 psf	9
			+100, -137 psf	9



◊ CORRESPONDS TO CLUSTER OF (29) OR (29A) ANCHORS AT ◊ OF STILES/ASTRAGAL LOCATION (SEE DETAIL X)

* SEE SCHEDULE ON SHEET 46 FOR APPLICABLE DESIGN PRESSURE RATING AND MAX. DOOR FRAME HEIGHT, BEFORE ENTERING INTO THIS SCHEDULE.

THREE-TRACK DOOR



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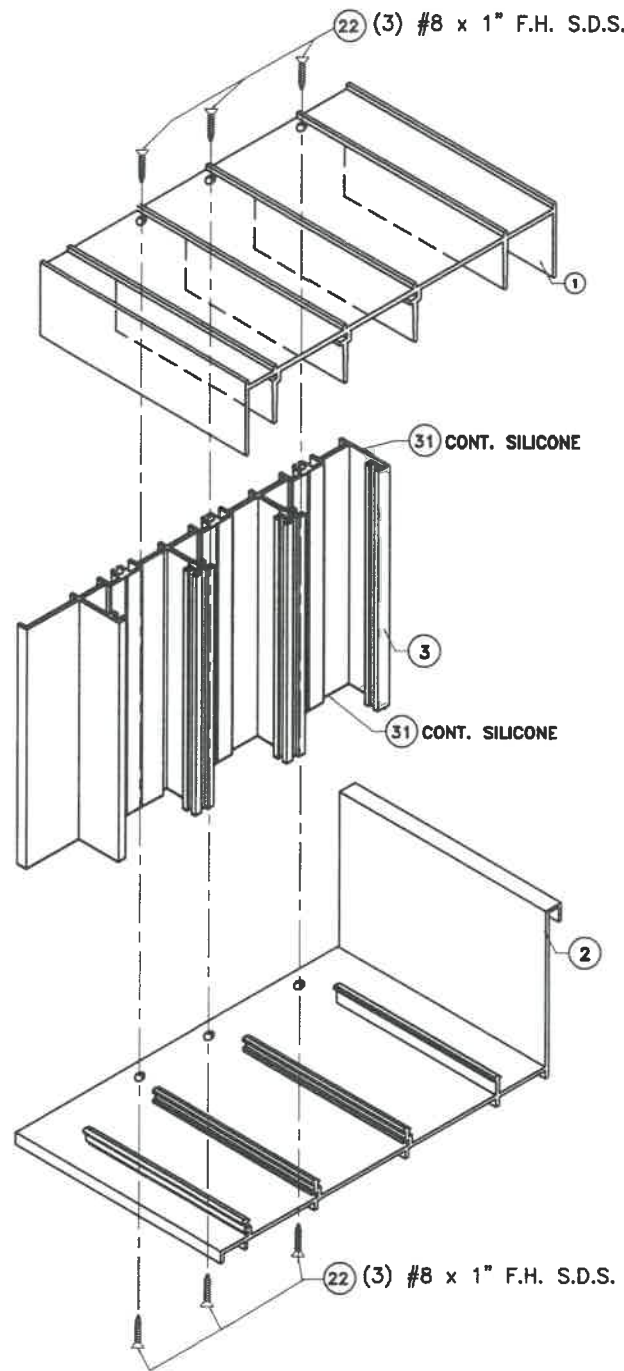
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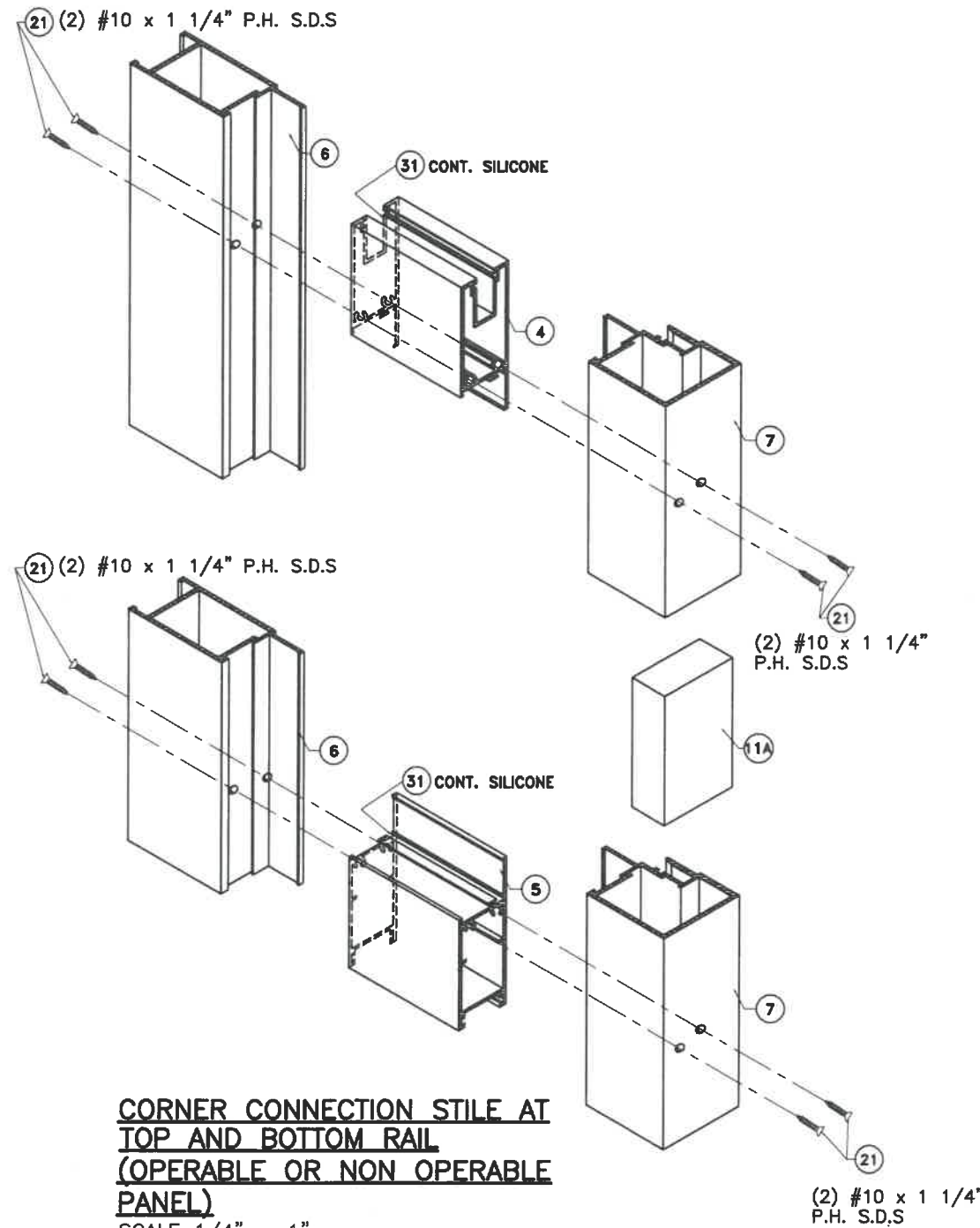
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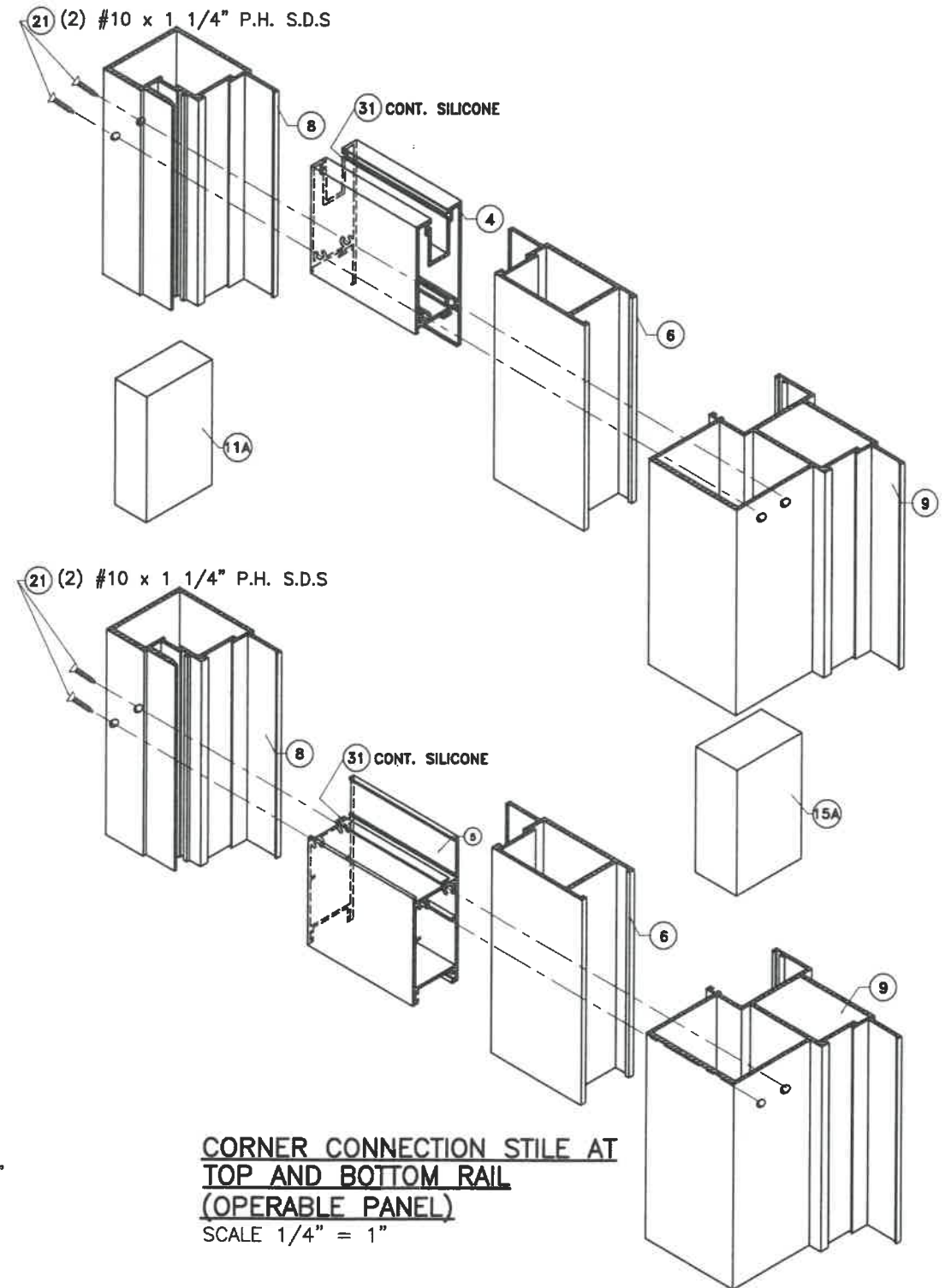
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**CORNER CONNECTION AT
FRAME HEAD AND SILL**
SCALE 1/4" = 1"

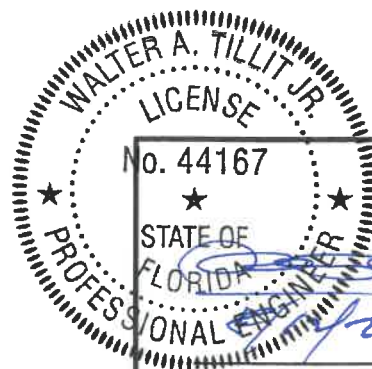


**CORNER CONNECTION STILE AT
TOP AND BOTTOM RAIL
(OPERABLE OR NON OPERABLE
PANEL)**
SCALE 1/4" = 1"



**CORNER CONNECTION STILE AT
TOP AND BOTTOM RAIL
(OPERABLE PANEL)**
SCALE 1/4" = 1"

THREE-TRACK SYSTEM



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