

GENERAL NOTES AND SPECIFICATIONS:

1. SUN MOUNTAIN CUSTOM DOORS SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. DOORS MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES OR OUT OF IT.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 & 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 2 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 2 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 AND HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.

DOOR'S ADEQUACY FOR IMPACT AND CYCLIC 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 BLACKWATER TECHNICAL SERVICES INC. REPORT #BT-SMC-21-001 & #BT-SMC-22-001 AND 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. MAXIMUM A.S.D. DESIGN PRESSURE RATING +70.0 psf. -70.0 psf.
3. THESE DOORS ARE NOT APPROVED FOR AIR/WATER INFILTRATION, AND SHALL COMPLY WITH THE FLORIDA BUILDING CODE REQUIREMENTS.
4. ALL DOORS COMPONENTS FOR CASES I, II & III SHALL BE AS PER BILL OF MATERIALS ON SHEETS 2, 41 & 49, RESPECTIVELY
CASE I INSTALLATIONS: SHEETS 2 THRU 40, 48, 56, 25, 25A & 57.
CASE II INSTALLATIONS: SHEETS 41 THRU 48, 56, 25, 25A & 57.
CASE III INSTALLATIONS: SHEETS 49 THRU 55, 56, 25 & 57.
SEE SHEET 57 FOR LIMITATIONS ON COMBINATIONS OF INSTALLATIONS W/ CASE I, II & III.
5. THESE DOORS WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
6. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE #2, G=0.55, AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2326 OF THE FLORIDA BUILDING CODE.
- (6.1) 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.
- (6.2) 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.
7. PROVIDE 1/4" MAX. LOAD BEARING SHIM WHEN NEEDED.
8. ALL FRAME MEMBERS FOR CASES I, II & III SHALL BE ANCHORED TO EXISTING STRUCTURE FOLLOWING SPEC'S INDICATED ON SHEETS 5 THRU 40, 45 THRU 47 & 52 THRU 54, RESPECTIVELY AS APPLICABLE. ANCHORS SHALL CORRESPOND TO COMPONENTS # 23, 23A & 23B AT CORRESPONDING BILL OF MATERIALS AND SHALL COMPLY WITH SECTION 2411.3.3.4 OF THE FLORIDA BUILDING CODE. ANCHOR LOCATION AT HEAD & SILL OF DOORS SHALL BE AS INDICATED ON SHEETS 5 THRU 40 (CASE I), SHEET 45 (CASE II) & SHEET 52 (CASE III). MAXIMUM ANCHOR SPACING AT JAMBS OF DOORS SHALL BE AS INDICATED ON SHEET 56 FOR CASES I, II & III. MAXIMUM ANCHOR SPACING AT HEAD, SILL & JAMBS AT DOORS, SIDELITES & TRANSOMS SHALL BE AS INDICATED ON SHEET 56.
9. ALL DOORS COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING SHALL BE SEAL/CAULK TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL ALL AROUND FULL LENGTH.

10. (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.
11. DOOR'S 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 UNIT.

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
7/24/2023
P.E. SEAL/SIGNATURE/DATE

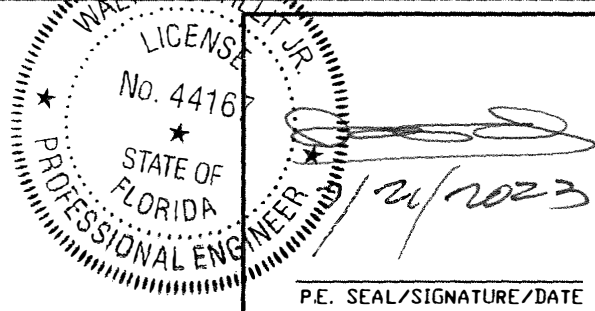
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
© 2023 TILTECO, INC.			OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III		
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		Y.M. DRAWN BY: 7/21/2023 DATE: 23-125 DRAWING No.
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-
					SHEET 1 OF 57

BILL OF MATERIALS CASE I INSTALLATIONS				
COMPONENT#	DESCRIPTION	DIMENSIONS	MATERIAL	REMARKS
①	STILE	5.750" X 1.750"	LVL WITH WOOD VENEER	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
①A	HEAD, SILL, STILE AT TRANSOMS & SIDELITES	4.750" X 1.750"	LVL WITH WOOD VENEER	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
②	TOP RAIL	5.625" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
③	BOTTOM RAIL	8.000" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
④	NARROW MID RAIL	4.000" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
④A	WIDE MID RAIL	5.50" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
⑨	GLAZING BEAD-OVOLO	0.625" X 0.525" (MIN.)	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
⑩	GLAZING BEAD-STEP	0.625" X 0.500" (MIN.)	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
⑪	FIXED ASTRAGAL	2.875" X 1.500"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
⑫	HEAD/JAMB	6.500" X 1.250"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
⑫A	SIDELITE HEAD/JAMB/TRANSOM SILL	6.625" X 1.250"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
⑬	ARCHED HEAD/JAMB	6.625" X 1.250"	ALDER WOOD(G=0.41) IN 1/8" LAMINATED	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
⑬A	ARCHED SIDELITE& TRANSOM HEAD/LVL	6.625" X 1.250"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
⑭	IN-SWING THRESHOLD (HYDROSILL)	7.613" X 1.560"	EXTRUDED ALUMINUM + OAK WOOD	SCHLEGEL SERIES 5000
⑭A	SIDELITE SILL	6.625" X 1.250"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	SILICONED TO ③ + W/ ②③ ♂ 6" O.C.
⑮	OUT-SWING THRESHOLD	7.437" X 1.250"	EXTRUDED ALUMINUM + OAK WOOD	COMBO ALUMINUM 410/412
⑮	5 POINT LOCK SYSTEM	-	STEEL	HOPPE HLS 9000 TONGUE/SHOOTBOLT
⑮	2 POINT LOCK SYSTEM	-	STEEL	HOPPE HLS 9000
⑮	SHOOT BOLT STRIKE PLATE	-	STEEL	HOPPE
⑯	HANDLE	-	METAL, NICKEL FINISHED	AS REQUIRED TO OPERATE LOCK SYSTEM
⑰	BUTT HINGE, BALL BEARING	4 1/2" X 4 1/2" X 1/8"	SOLID BRASS	MANUFACTURED BY DELTANA HARDWARE DSB45B
⑰A	BUTT HINGE, BALL BEARING	4 1/2" X 4 1/2" X 1/8"	STAINLESS STEEL 304 SERIES	MIN. Fy=33 Ksi MATERIAL
⑱	WEATHER STRIP (DOOR SEAL)	0.992" X 0.580"	URETHANE FOAM	MODEL PF588 FEN-SEAL, BY AMWEATHERGUARD
⑲	SELF-TAPPING WOOD SCREW	#12 X 2.5"	GALVANIZED OR STAINLESS STEEL	MINIMUM 1 1/4" PENETRATION INTO WOOD W/1" MIN. E.D.
⑲A	ULTRACON	1/4 ♂	410 STAINLESS STEEL	MIN.1 3/4" PENETRATION INTO CONCRETE AND 1 1/4" INTO CONCRETE BLOCK, MANUFAC. BY ELCO CONST. W/MIN 2 1/2" E.D.
⑲B	TEK SCREW	1/4 ♂-14	CLIMASEAL COATED STEEL OR 401 SERIES S.S. (SEE NOTE 8/1)	MINIMUM PENETRATION EQUAL MIN. SUBSTRATE THICKNESS +3 TREADS (1/8" ALUM. OR STEEL) W/MIN 1/2" E.D. MANUF. BY ITW/BUILDEX
⑲	1 3/16" LONG BRAD NAIL	18 GA DIAMETER	GALVANIZED STEEL	1" FROM CORNERS AND MIN. 6" O.C
⑳	WOOD SCREW, HINGE	#12	GALVANIZED OR STAINLESS STEEL	MINIMUM 3/4" PENETRATION INTO FRAME
㉑	STRUCTURAL SILICONE DOW CORNING 995	-	SILICONE	ALL AROUND GLASS
㉒	SETTING BLOCK FOR GLASS	0.122" x 0.5"	E.P.D.M.	MANUFACTURER ULTRAFAB
㉓	LAMINATED GLASS	SEE ELEVATIONS	3/16" HEAT STRENGTHENED + 0.075 THK. STORM GLASS INTERLAYER + 3/16" HEAT STRENGTHENED	INTERLAYER MANUFACTURED BY OLD CASTLE BUILDING ENVELOPE INC. W/ MIAMI DADE COUNTY NOA
㉔	SILICONE DOW CORNING 795	-	SILICONE	ALL AROUND FRAME
㉕	WOOD PANELING	SEE DETAIL SHEET 3	COMPOSITE WOOD: SEE DETAIL SHEET 3	MIN. 1/4" ALDER WOOD + 1/4" PLYWOOD CORE + 1/4" ALDER WOOD
㉖	SIDELITE AND TRANSOM, SILL, HEAD & JAMB	1/2" X 1/2"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	

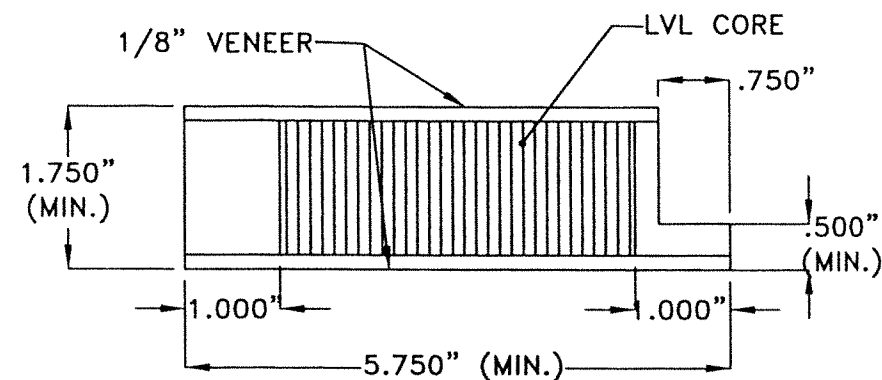
DEFINITIONS:

LVL CORE: LAMINATED VENEER LUMBER, WHERE LUMBER IS DOUGLAS FIR (0.47) OR LARGER SPECIFIC GRAVITY WOOD, ADHERED W/PROPRIETARY ADHESIVE.

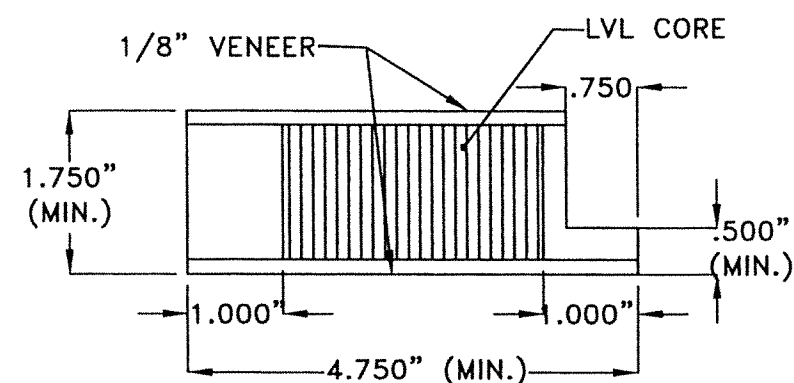
1/8" THICK VENEER: ALDER (0.41) OR LARGER SPECIFIC GRAVITY WOOD.



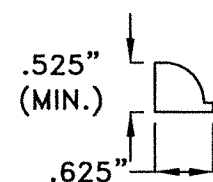
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
© 2023 TILTECO, INC.			Y.M. DRAWN BY:		
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING. CASES I, II & III SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
REV. No			DATE		
1			7/21/2023		
2			-		
DESCRIPTION			DESCRIPTION		
OLD 22-058			-		
-			-		
REV. No			DATE		
3			-		
4			-		
DRAWING No.			SHEET 2 OF 57		



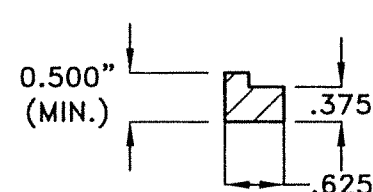
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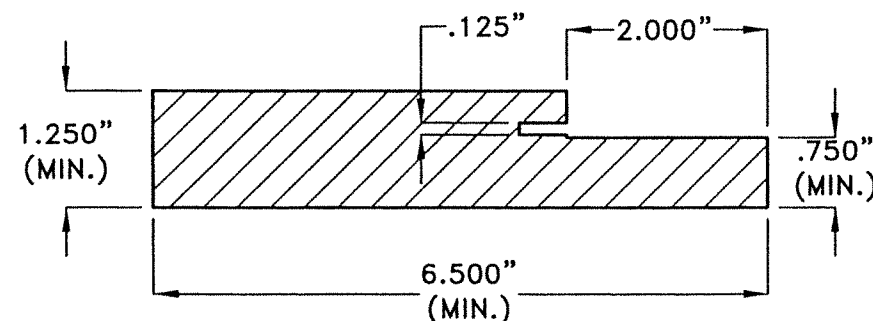
1A HEAD, SILL, STILE AT TRANSOMS & SIDELITES



9 GLAZING BEAD-OVOLO

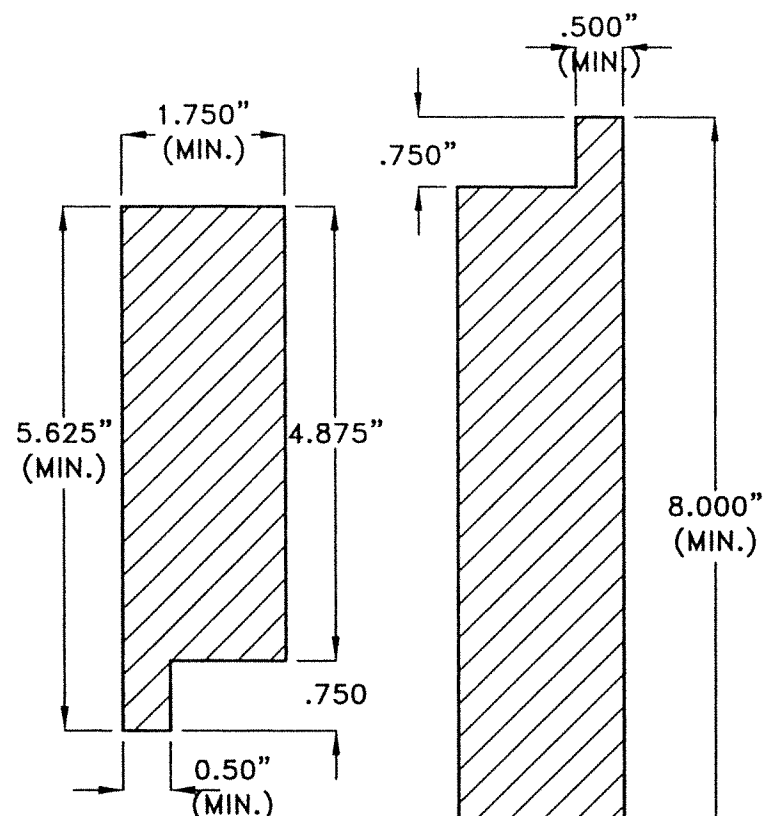


10 GLAZING BEAD-STEP

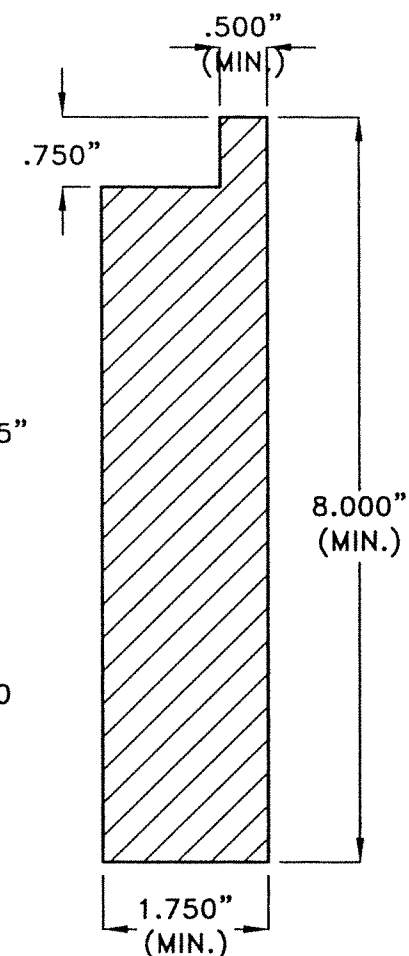


12 HEADER/JAMB

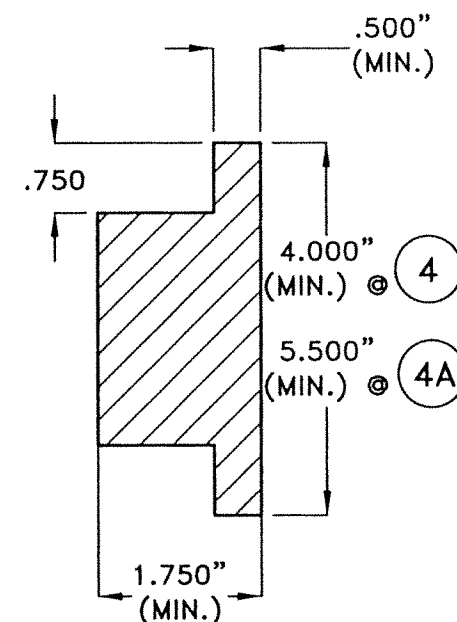
COMPONENTS: CASE I
N.T.S.



2 TOP RAIL

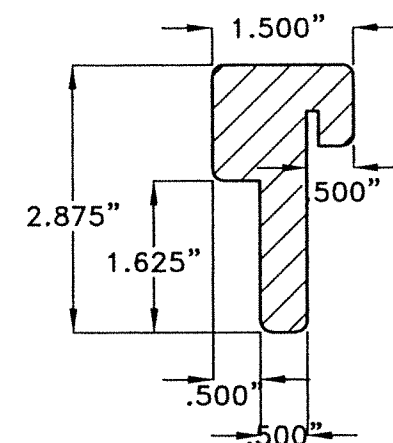


3 BOTTOM RAIL

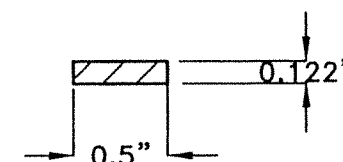


4 NARROW MID RAIL

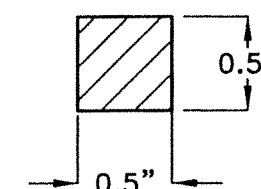
4A WIDE MID RAIL



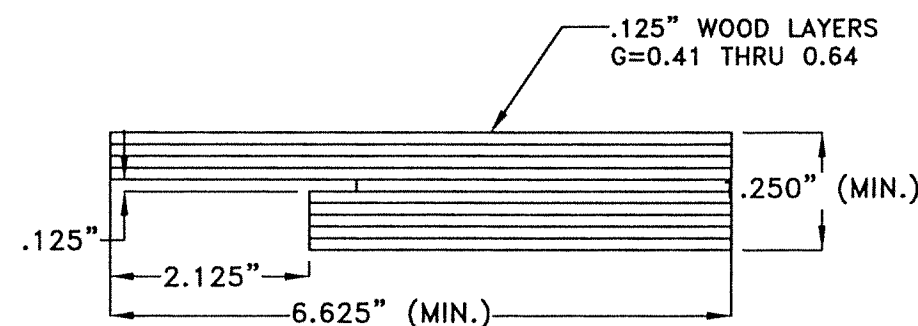
11 T-ASTRAGAL



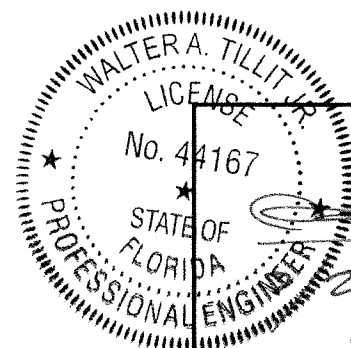
28 SETTING BLOCK



32 SIDELITE, TRANSOM, SILL, HEAD & JAMB SQUARE



13 ARCHED HEADER/JAMB



P.E. SEAL/SIGNATURE/DATE

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

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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

OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

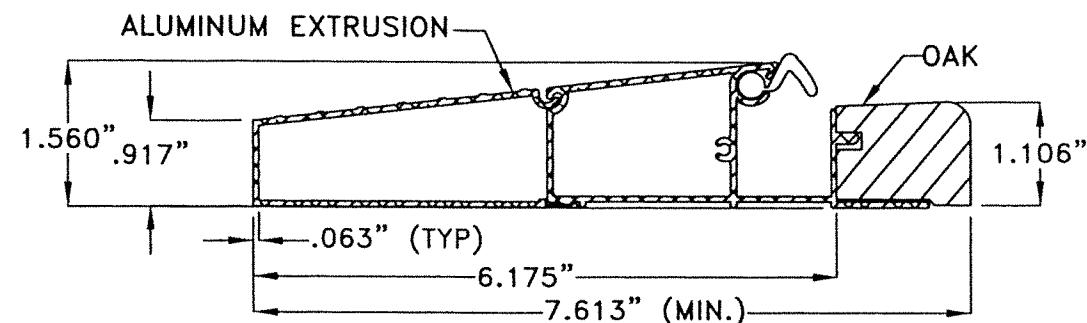
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23-125

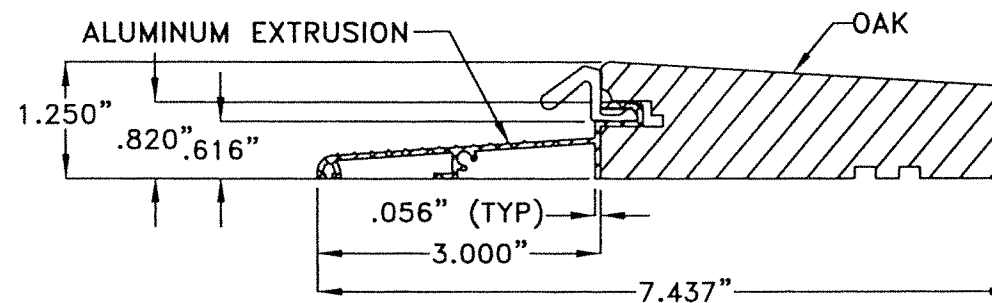
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

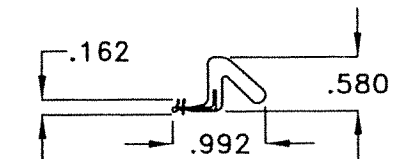
SHEET 3 OF 57



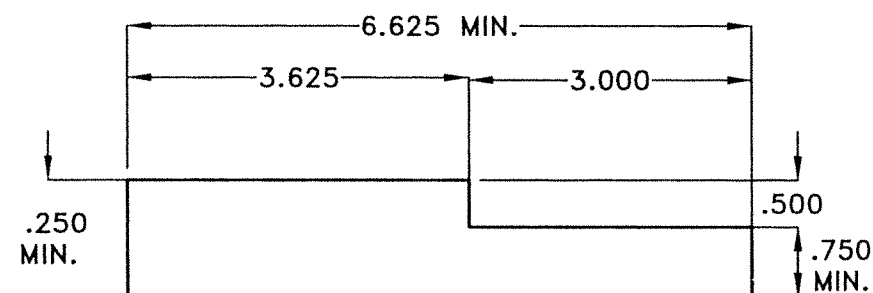
14 INSWING HYDROSILL



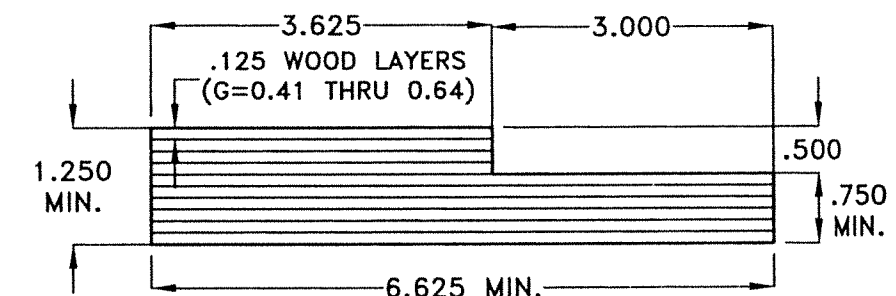
15 OUTSWING THRESHOLD



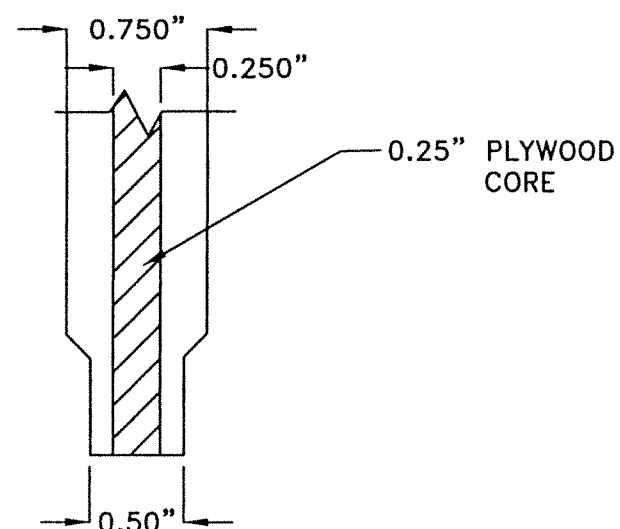
22 WEATHER STRIP



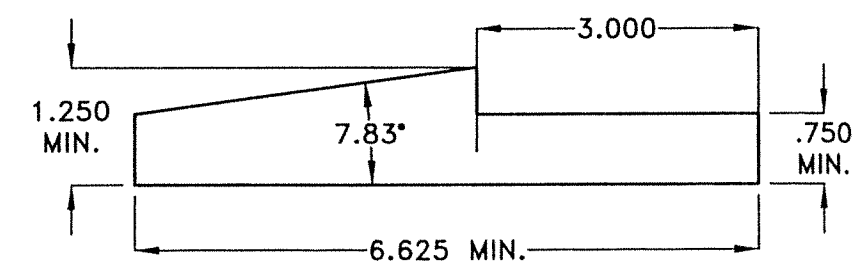
12A SIDELITE HEAD/JAMB/
TRANSOM SILL



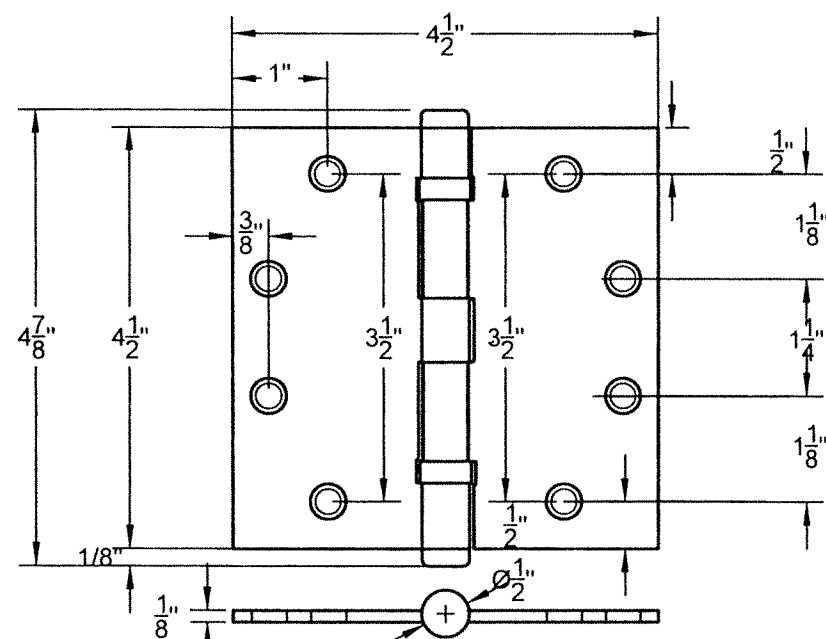
13A ARCHED SIDELITE & TRANSOM HEAD/LVL



31 WOOD PANELING W/
NARROW END



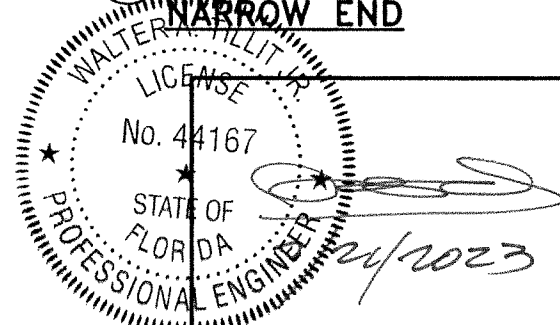
14A SIDELITE SILL



21 BUTT HINGE: SOLID BRASS

21A BUTT HINGE: STAINLESS STEEL 304 SERIES

COMPONENTS CONTINUATION CASE I
N.T.S.



P.E. SEAL/SIGNATURE/DATE

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

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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

OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

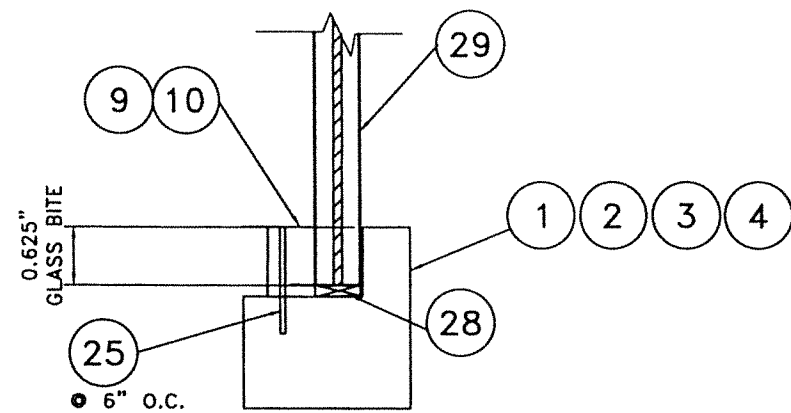
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DATE:

23-125

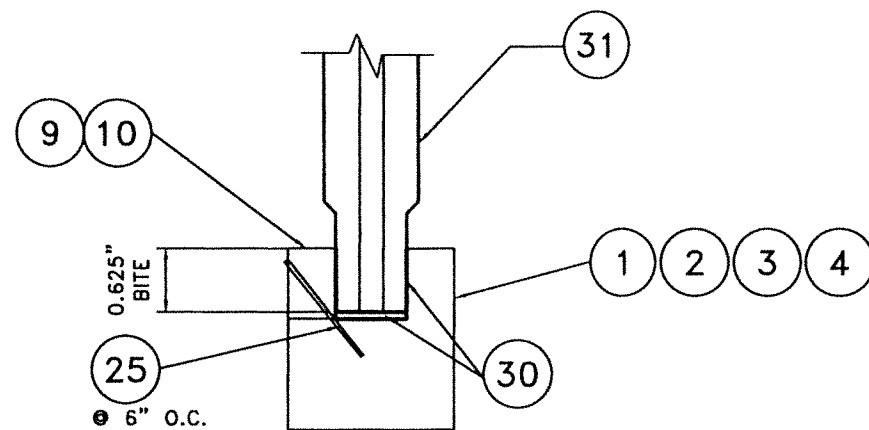
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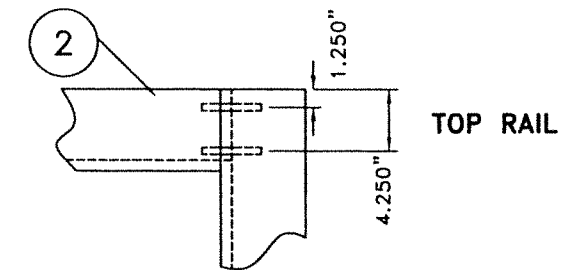
SHEET 4 OF 57



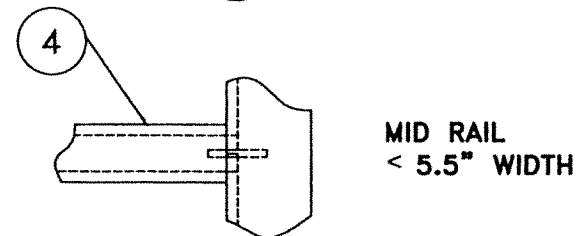
GLASS DETAIL
NTS



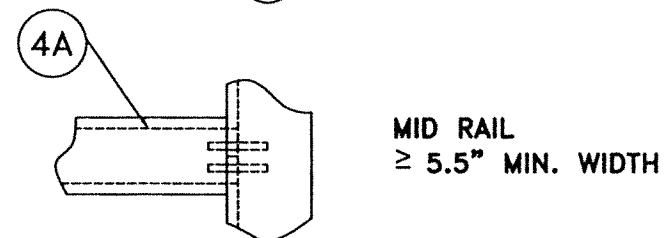
WOOD PANELING DETAIL
NTS



TOP RAIL

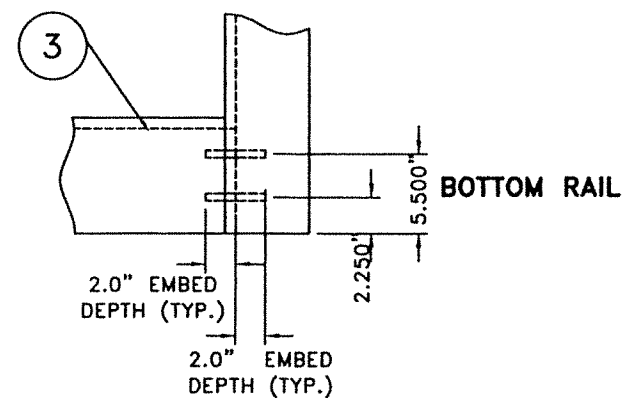


**MID RAIL
< 5.5" WIDTH**



**MID RAIL
≥ 5.5" MIN. WIDTH**

NOTE:
ALL DOWELS 1/2" Ø AND 4" LENGTH
ALL SURFACES GLUED

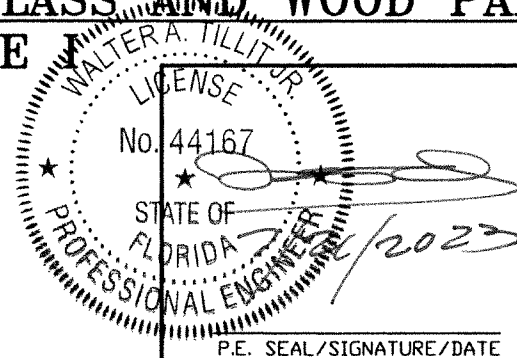


BOTTOM RAIL

STILE AND RAIL JOINT DETAIL
NTS

GLAZING DETAIL FOR GLASS AND WOOD PANELING

CASE



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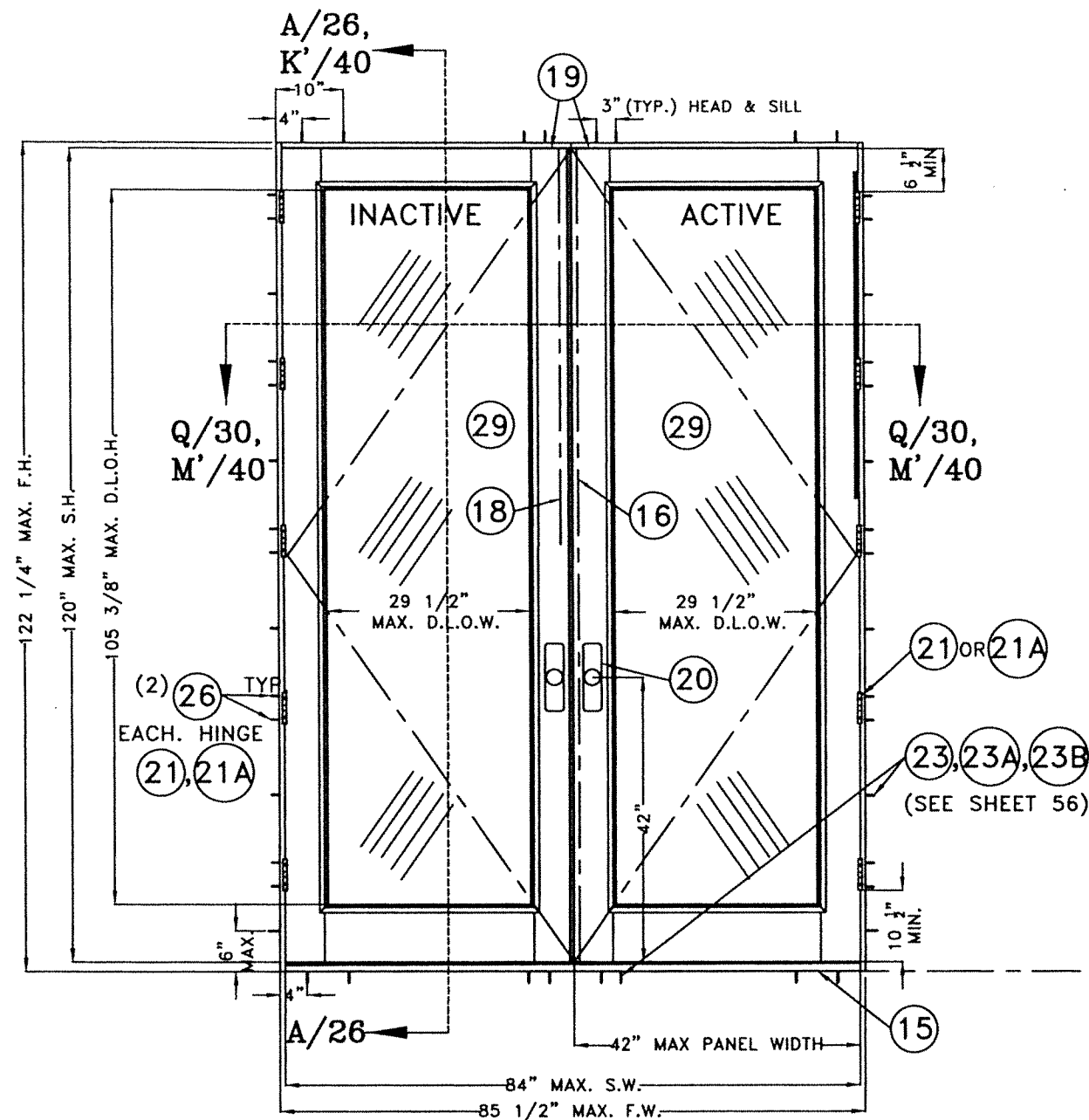
**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
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PHONE 970-532-2109

Y.M.
DRAWN BY:
7/21/2023
DATE:

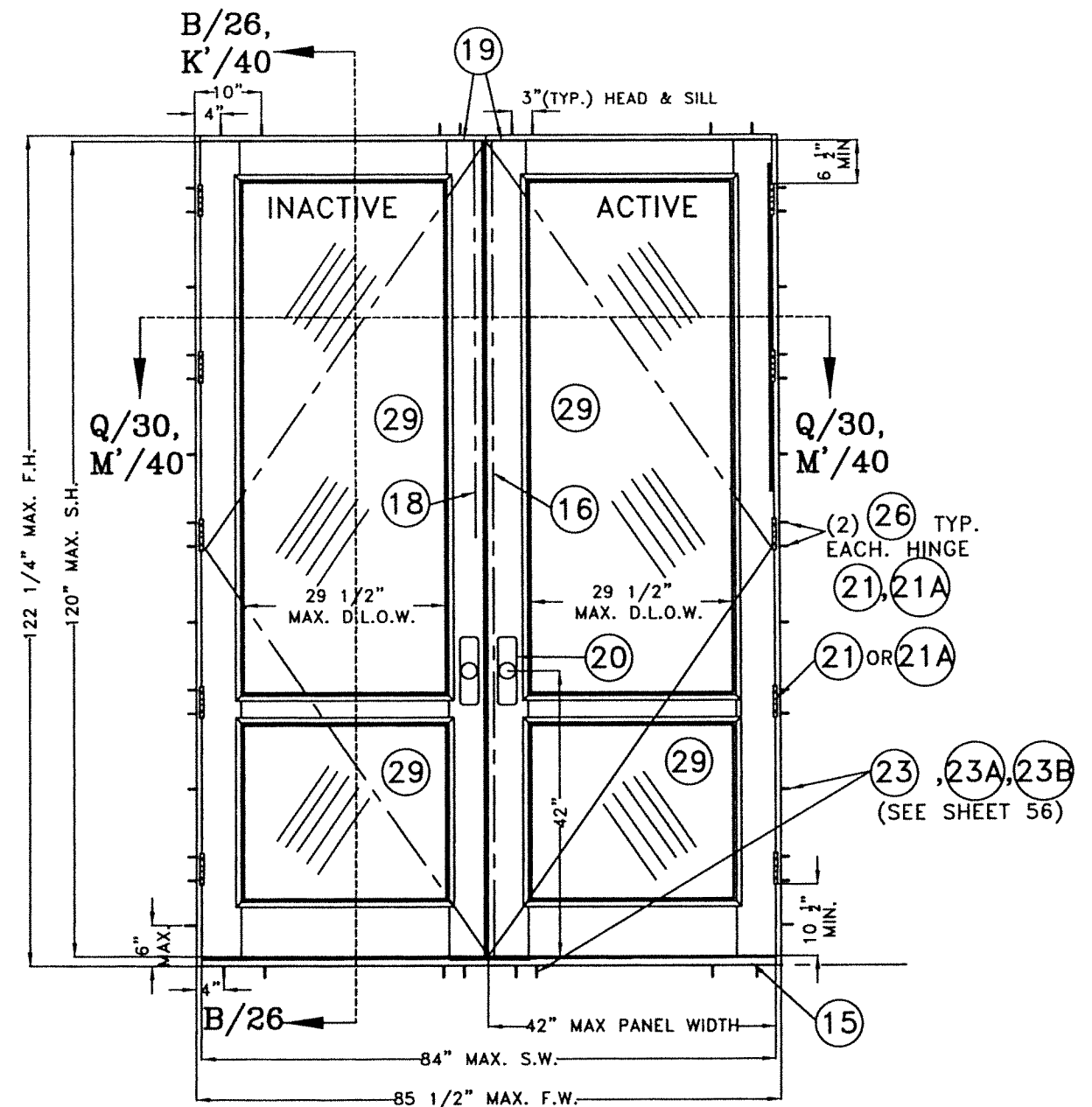
23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 4A OF 57



MODEL 1
N.T.S

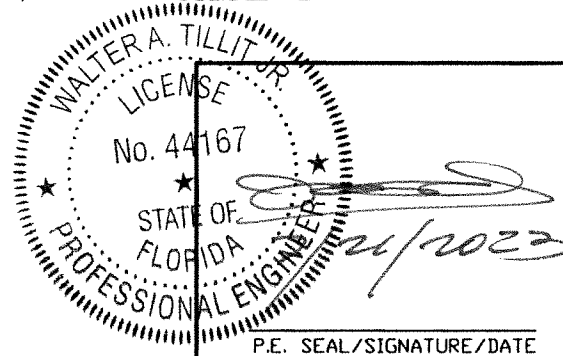


MODEL 2
N.T.S

EXTERIOR ELEVATION
REGULAR GLAZED OUT-SWING DOUBLE DOOR
CASE I

PREFIX LEGEND:

-F.W. : MAX. FRAME WIDTH
-F.H. : MAX. FRAME HEIGHT
-S.W. : MAX. SASH WIDTH
-S.H. : MAX. SASH HEIGHT
-D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
-D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



P.E. SEAL/SIGNATURE/DATE

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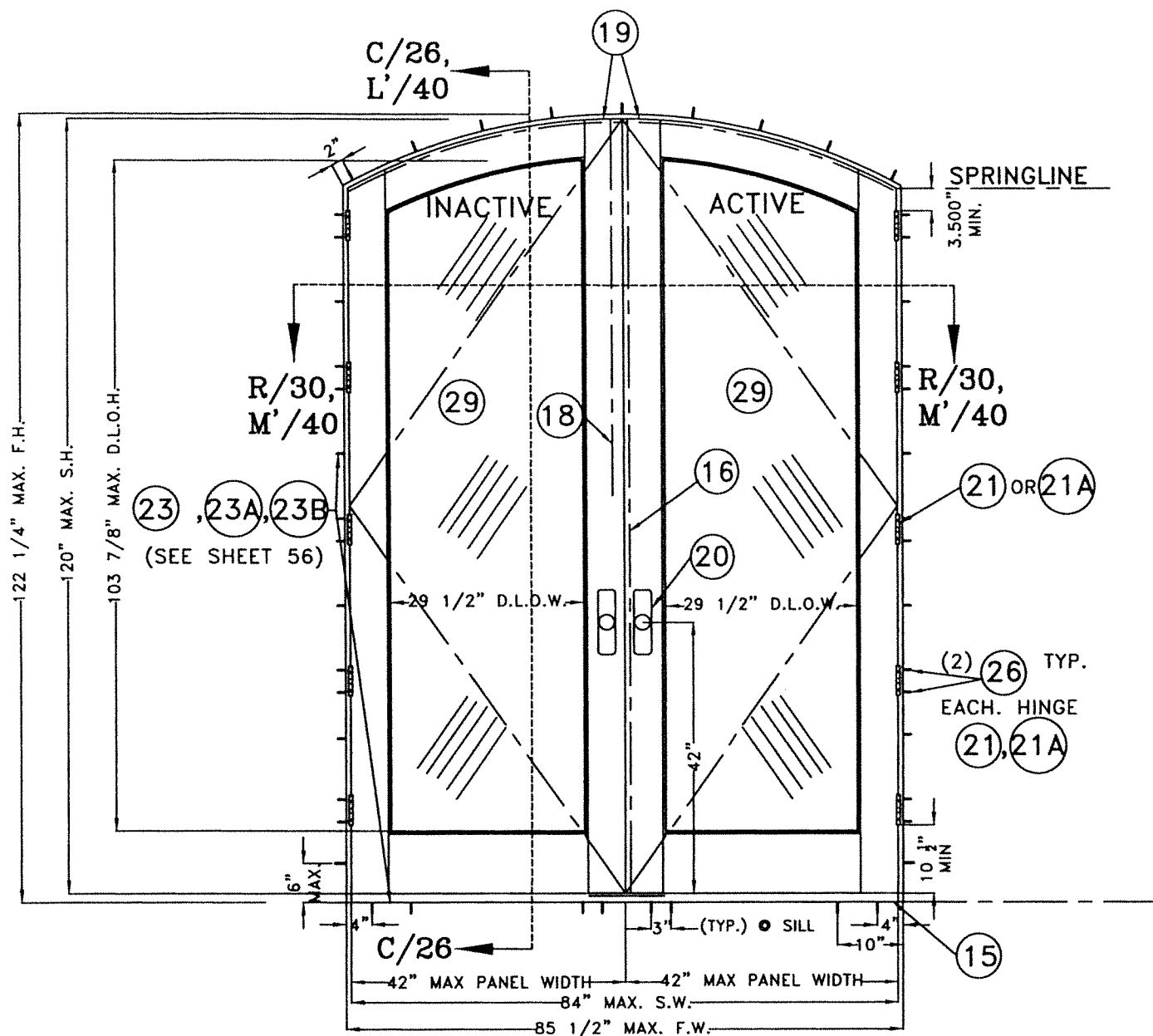
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7/21/2023
DATE:

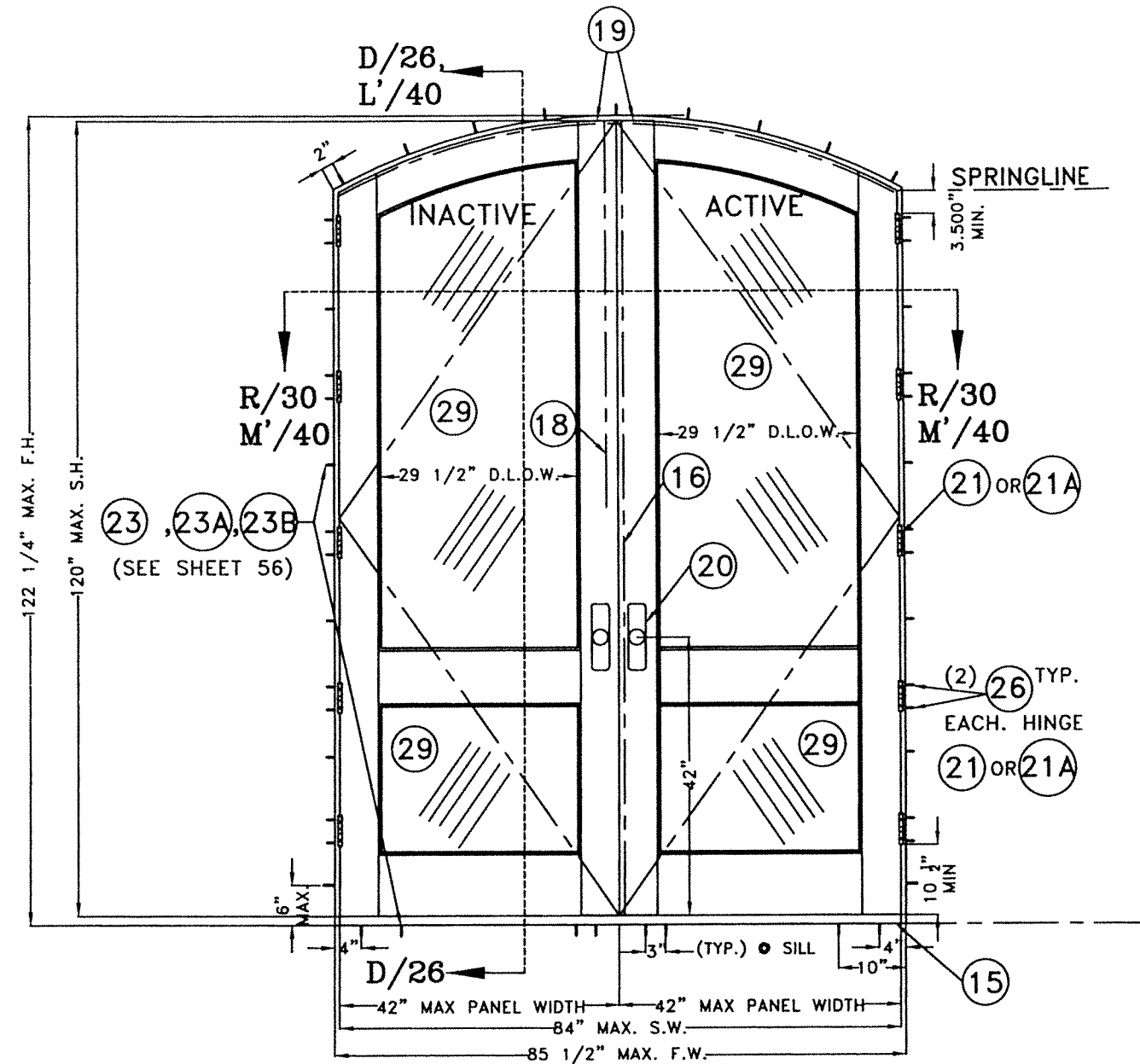
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 5 OF 57



MODEL 1
N.T.S

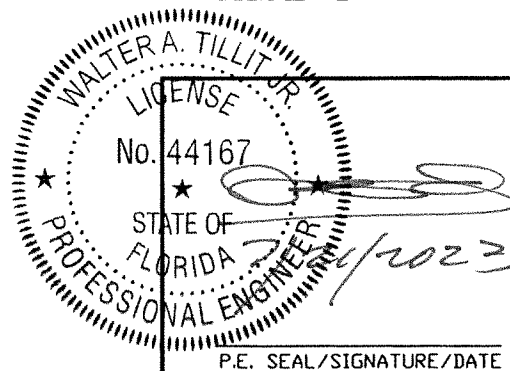


MODEL 2
N.T.S

EXTERIOR ELEVATION
EYEBROW GLAZED OUT-SWING DOUBLE DOOR
CASE I

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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BERTHOUD, CO 80513
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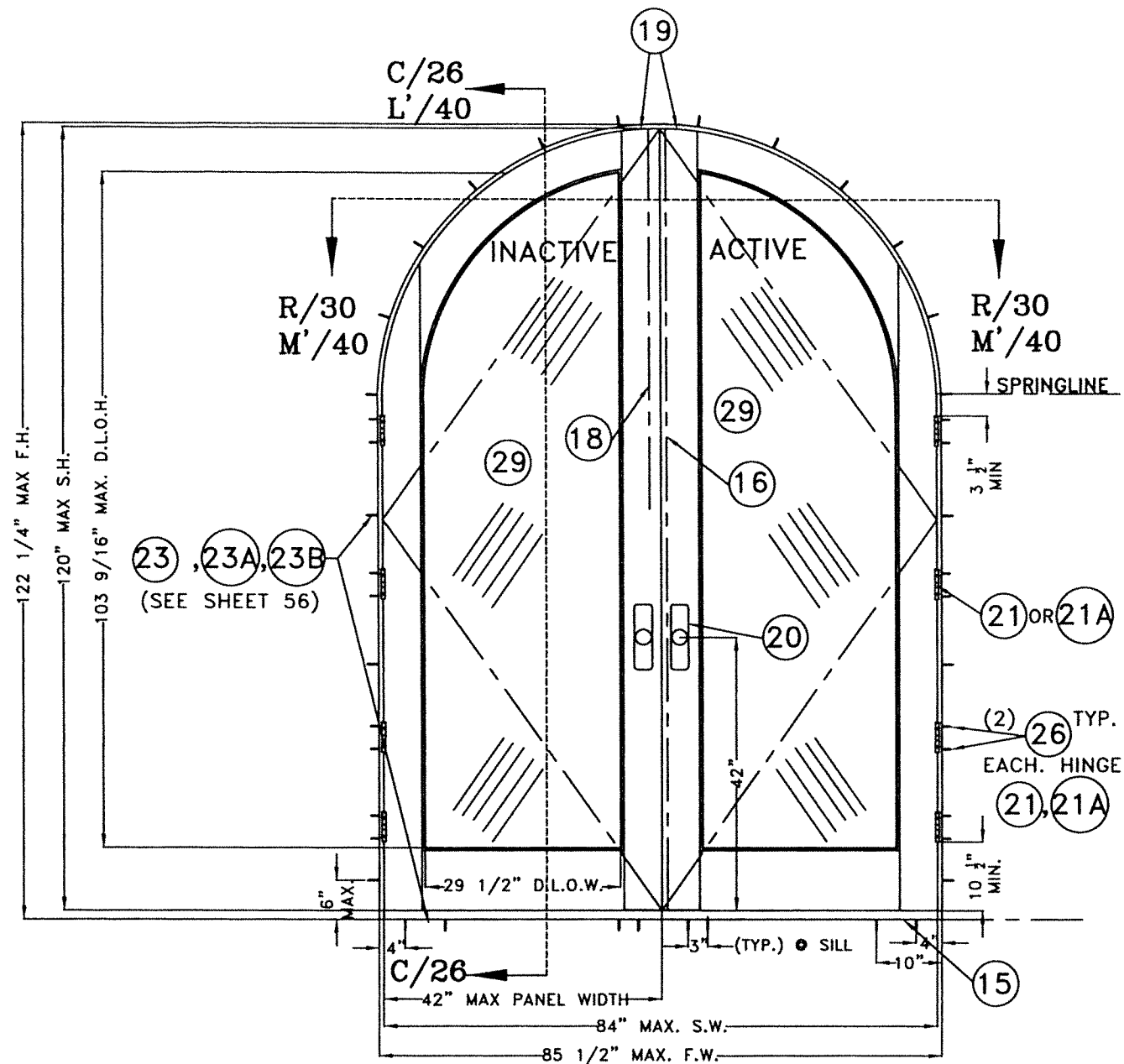
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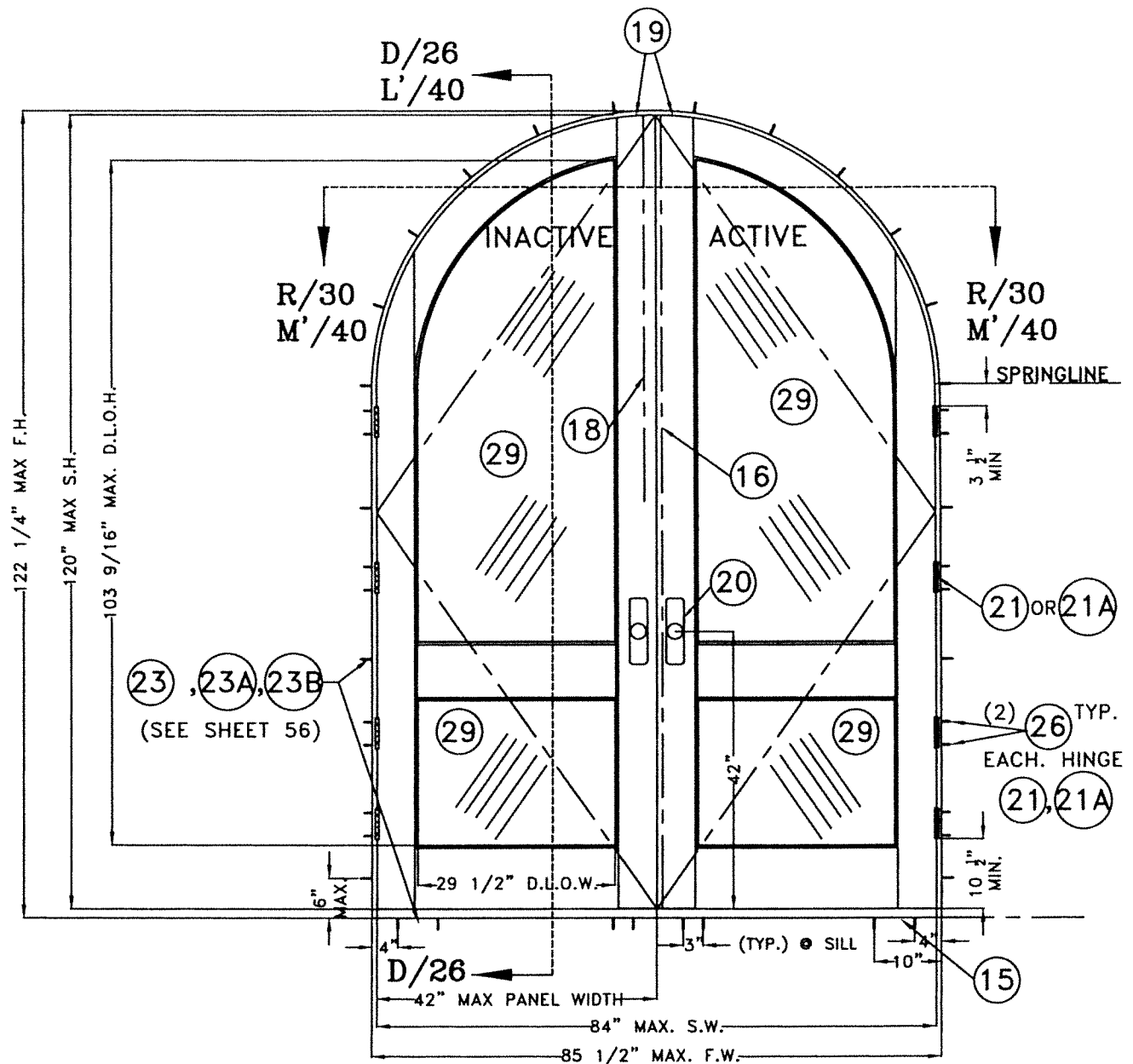
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 6 OF 57



MODEL 1
N.T.S.

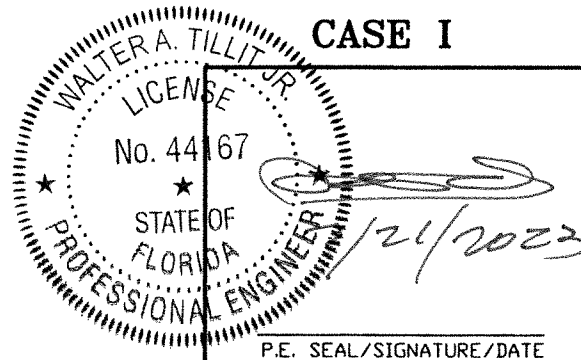


MODEL 2
N.T.S.

**EXTERIOR ELEVATION
FULL ARCH GLAZED OUT-SWING DOUBLE DOOR
CASE I**

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



P.E. SEAL/SIGNATURE/DATE

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Y.M.
DRAWN BY:

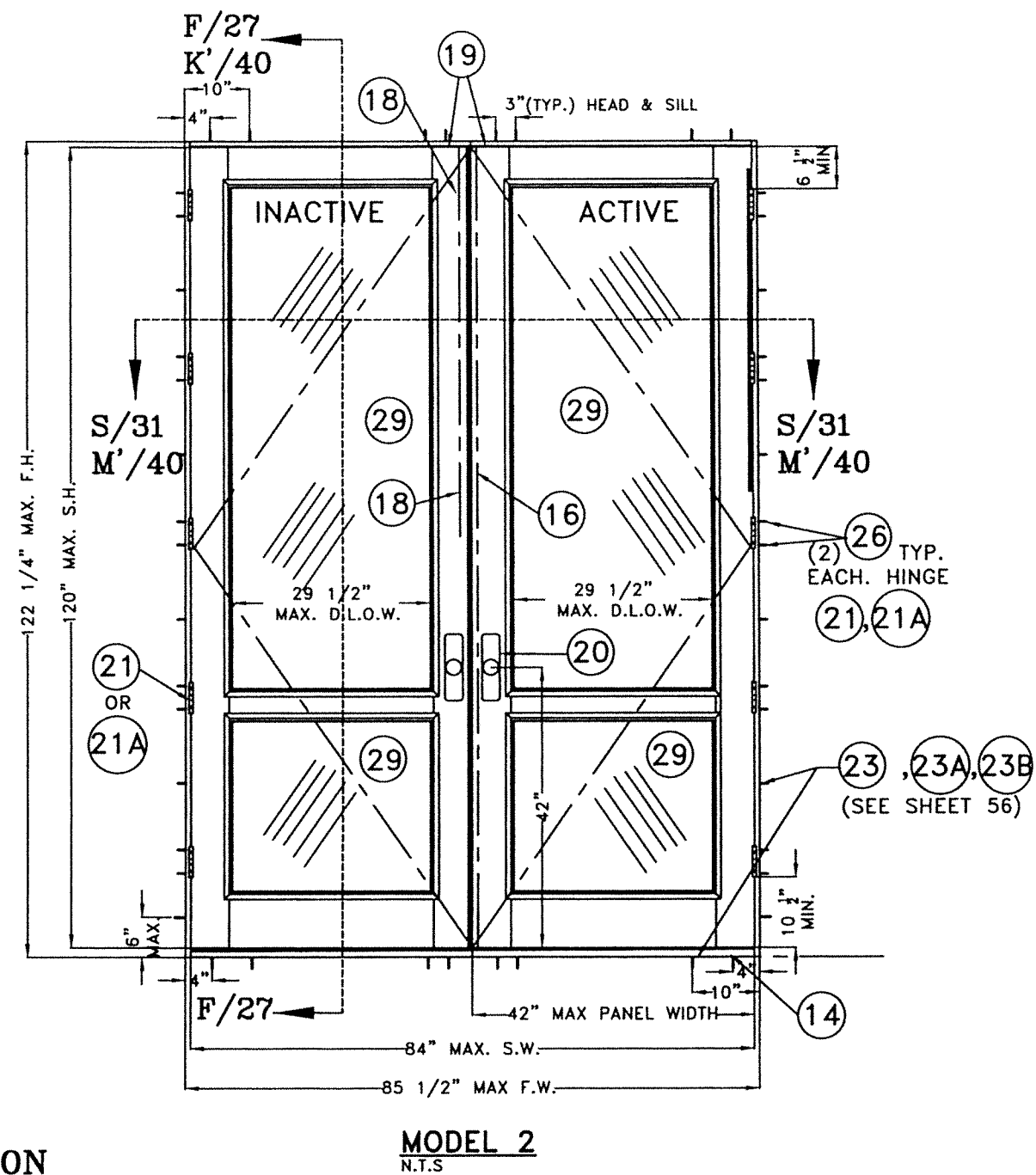
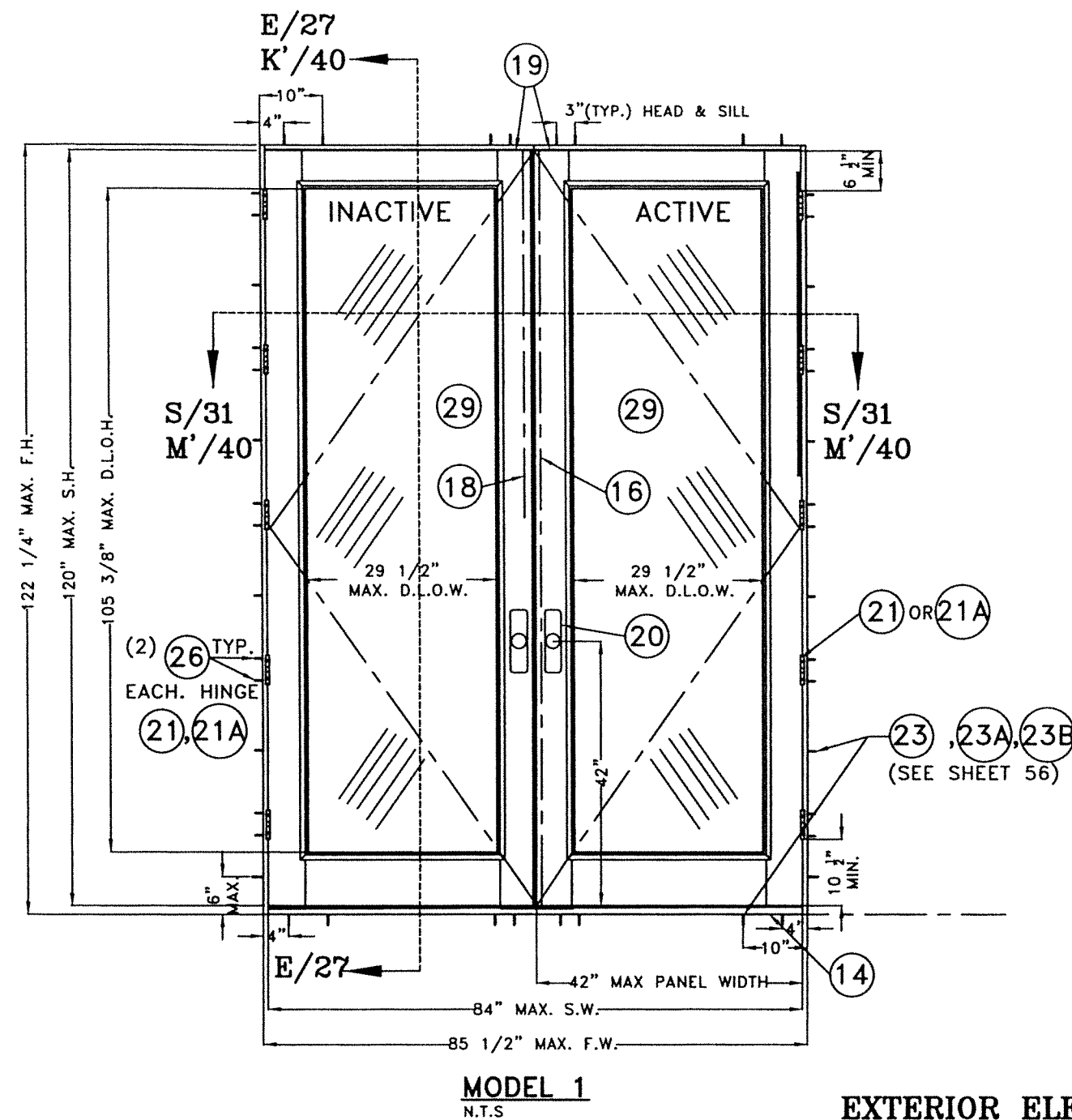
7/21/2023
DATE:

23-125

DRAWING No.

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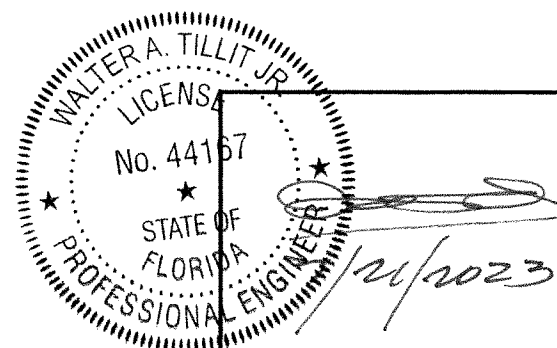
SHEET 7 OF 57



**EXTERIOR ELEVATION
REGULAR GLAZED IN-SWING DOUBLE DOOR
CASE I**

PREFIX LEGEND:

-F.W. : MAX. FRAME WIDTH
-F.H. : MAX. FRAME HEIGHT
-S.W. : MAX. SASH WIDTH
-S.H. : MAX. SASH HEIGHT
-D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
-D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



P.E. SEAL/SIGNATURE/DATE

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GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

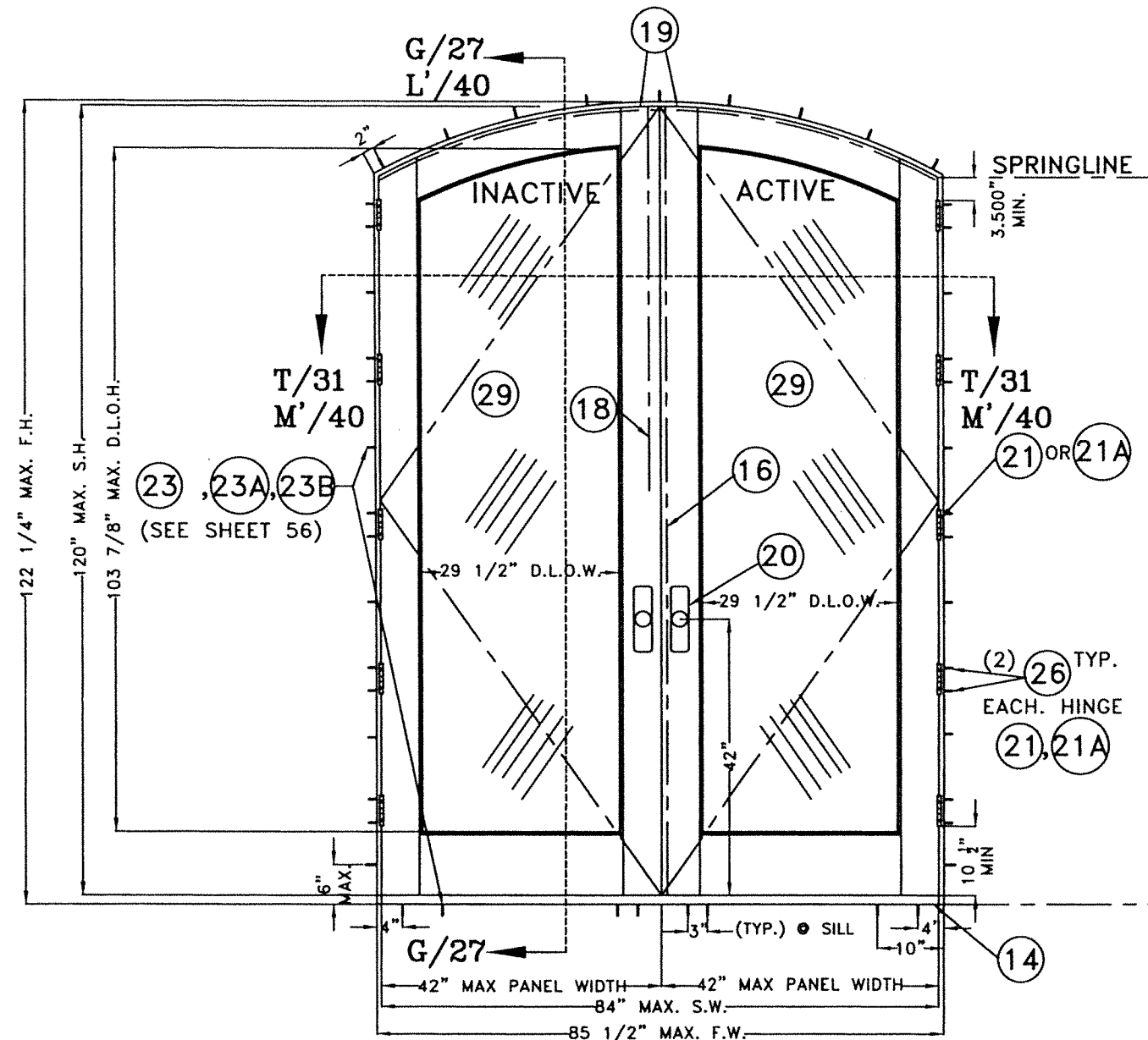
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DATE:

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DRAWING No.

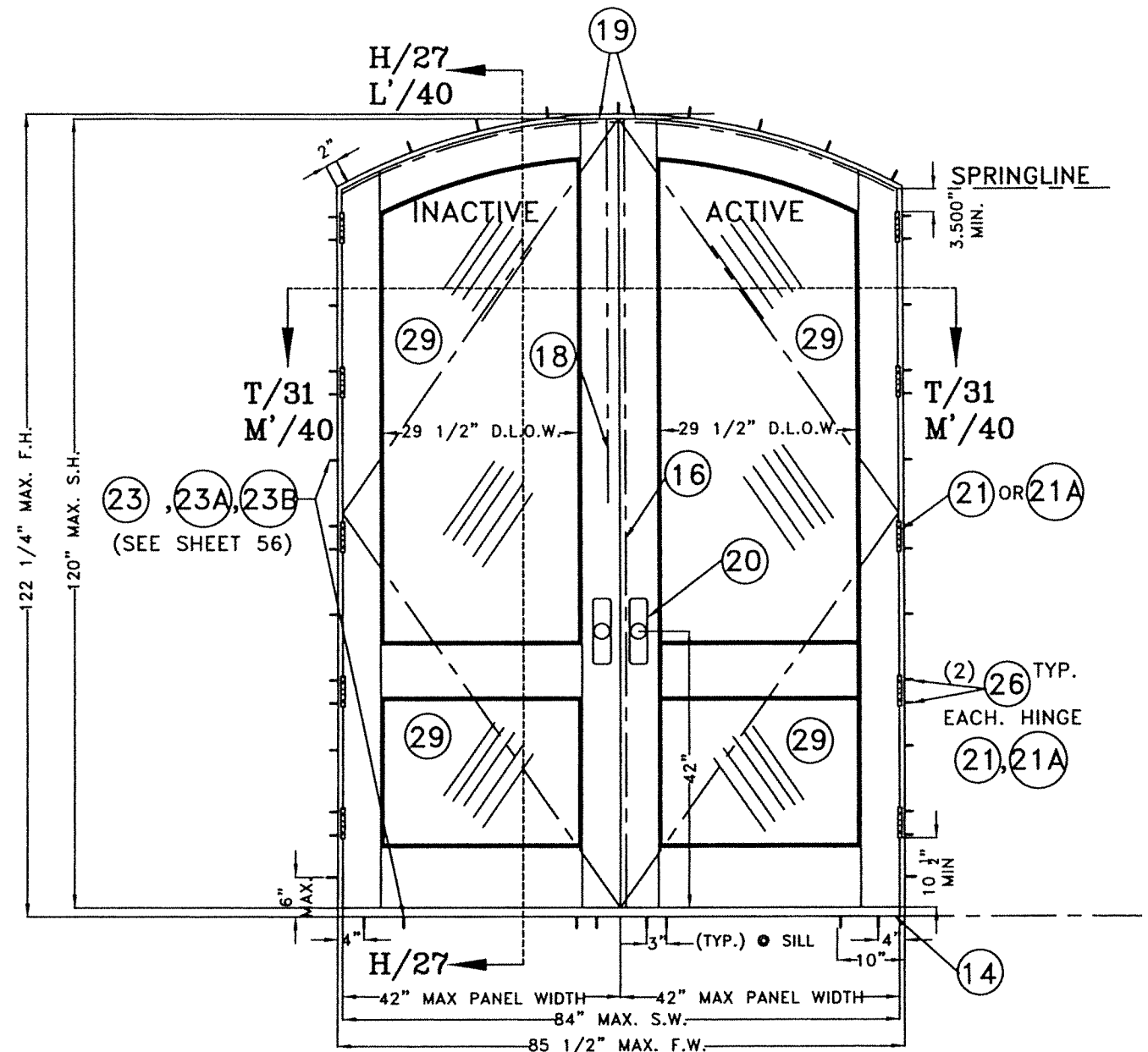
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SHEET 8 OF 57



MODEL 1
N.T.S

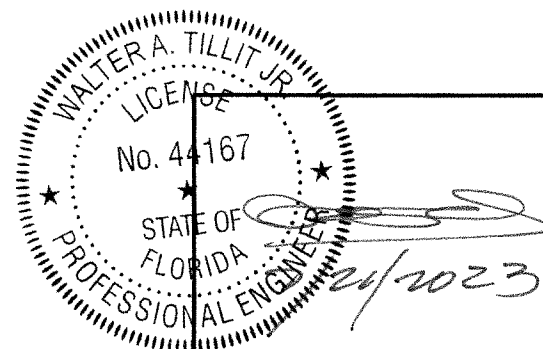
**EXTERIOR ELEVATION
EYEBROW GLAZED IN-SWING DOUBLE DOOR
CASE I**



MODEL 2
N.T.S

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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SUN MOUNTAIN CUSTOM DOORS

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BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
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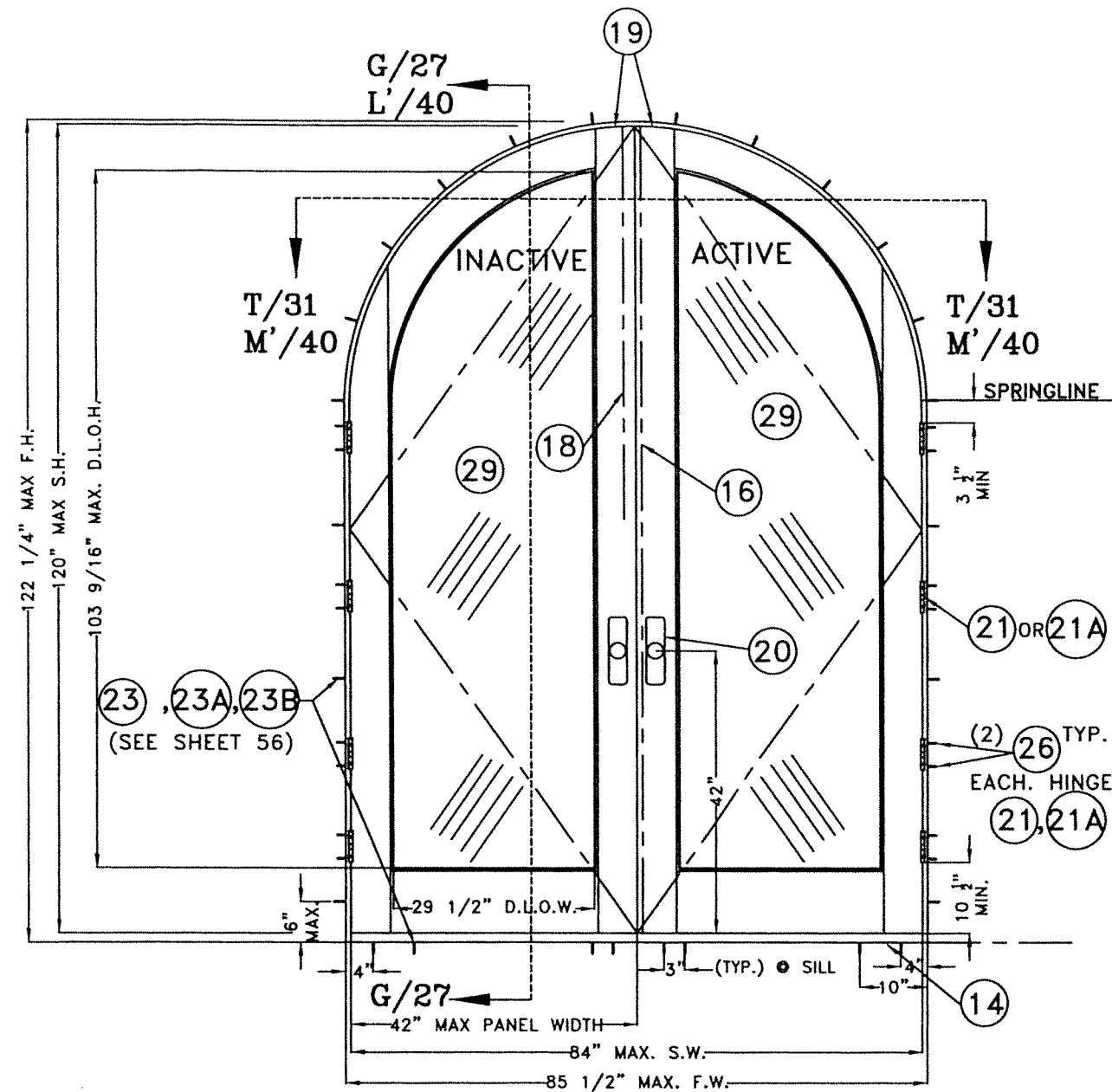
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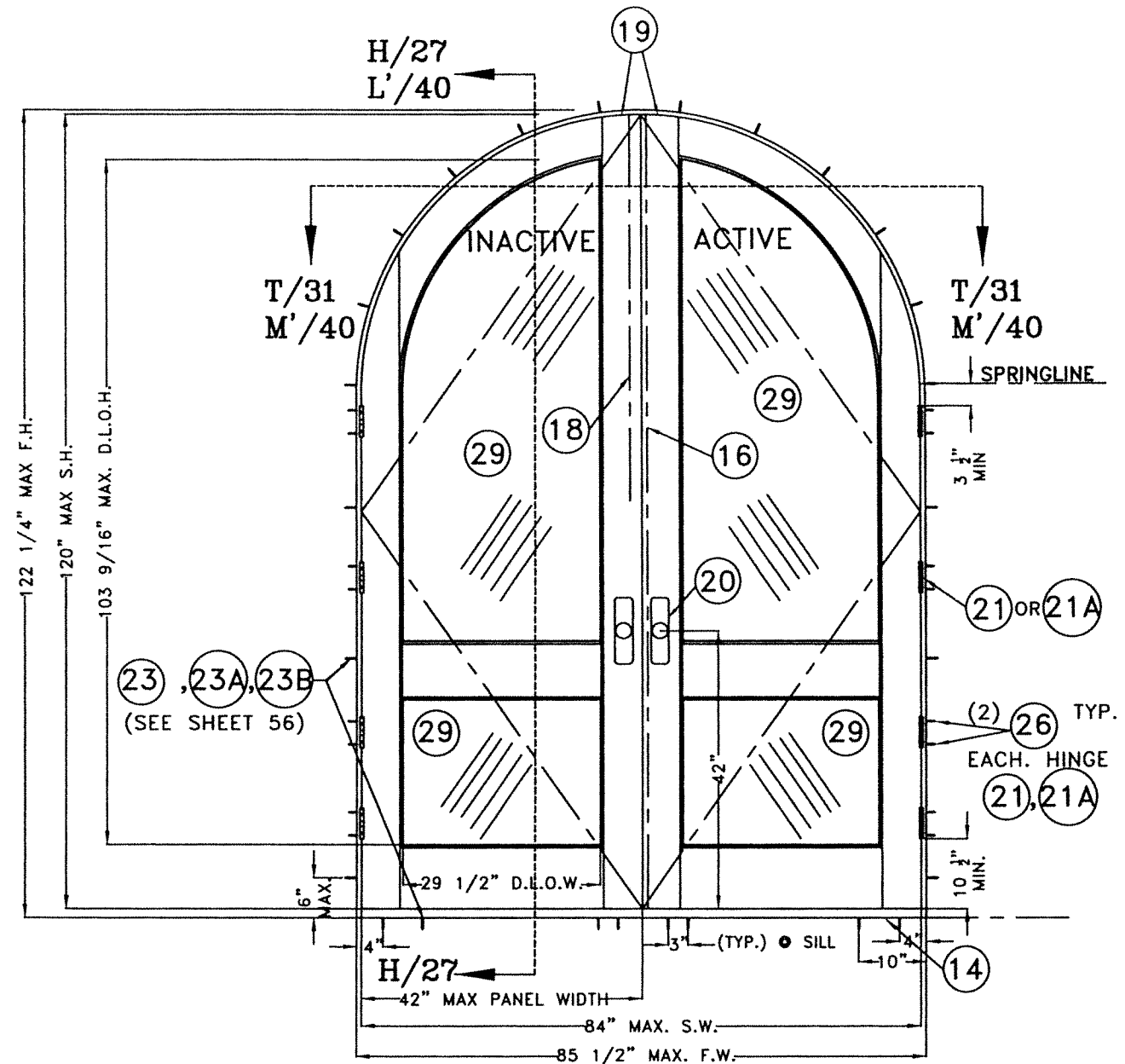
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SHEET 9 OF 57



MODEL 1
N.T.S

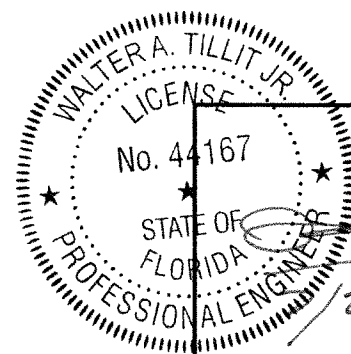


MODEL 2
N.T.S

EXTERIOR ELEVATION
FULL ARCH GLAZED IN-SWING DOUBLE DOOR
CASE I

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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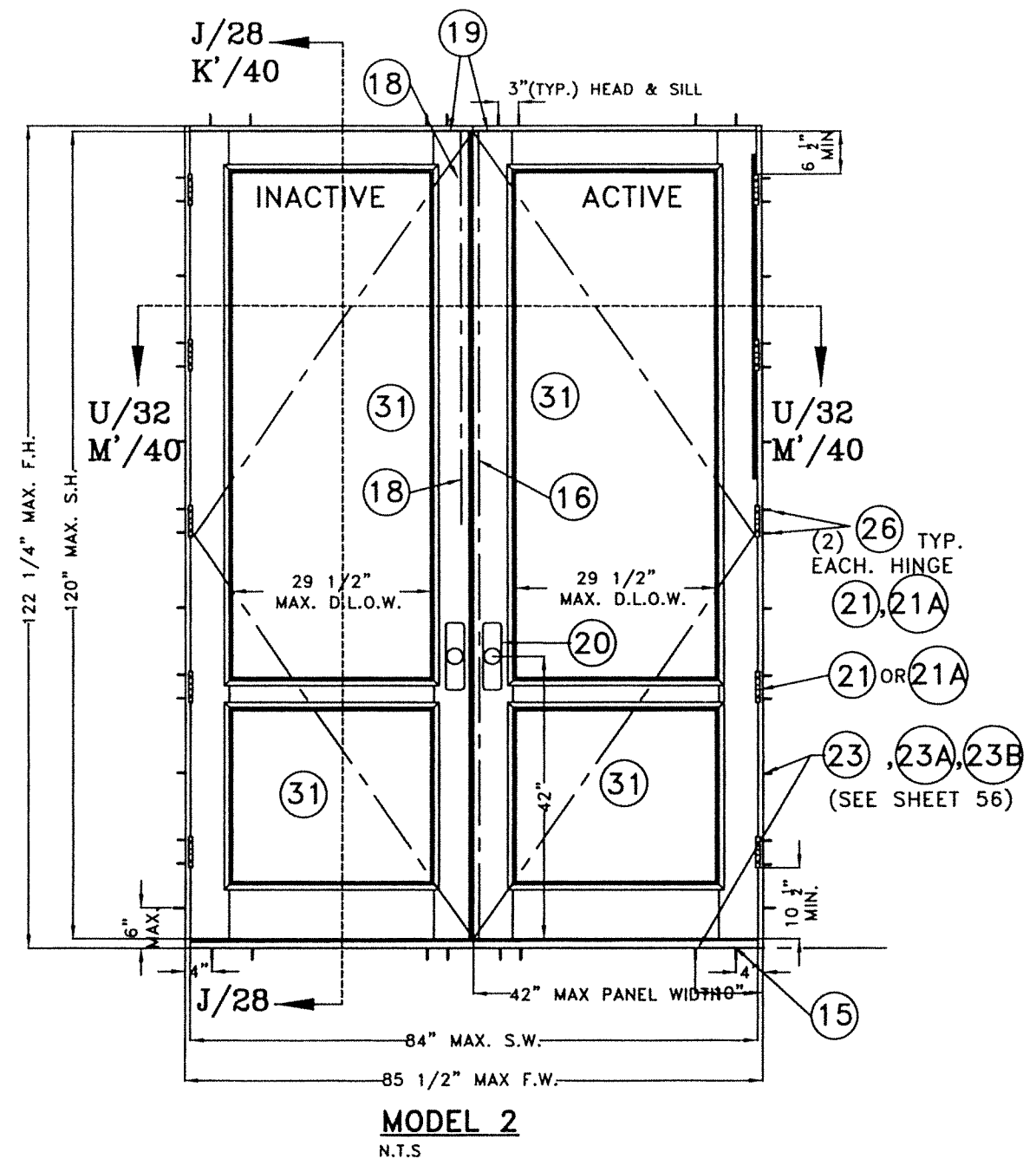
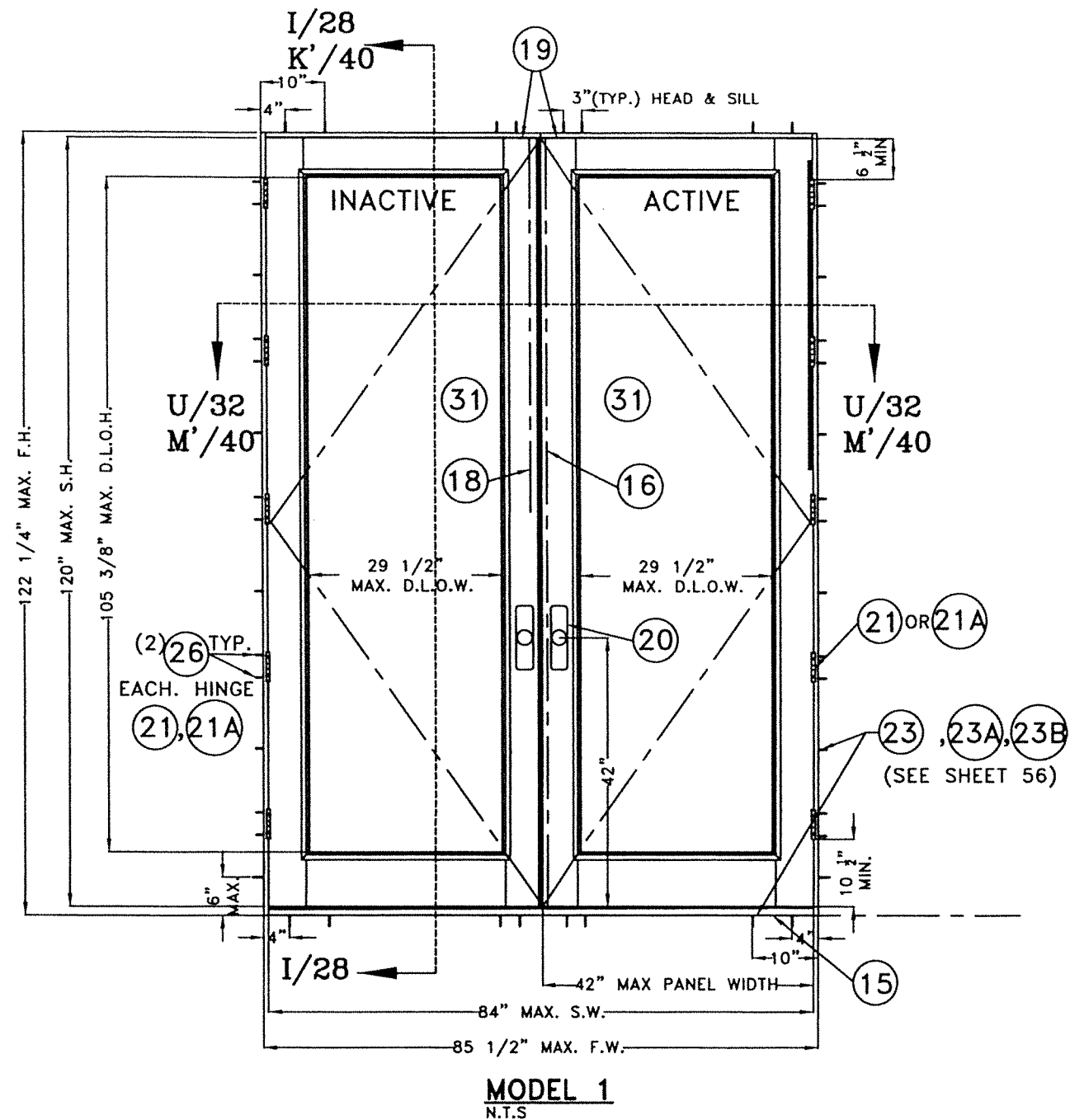
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7/21/2023
DATE:

23-125
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SHEET 10 OF 57

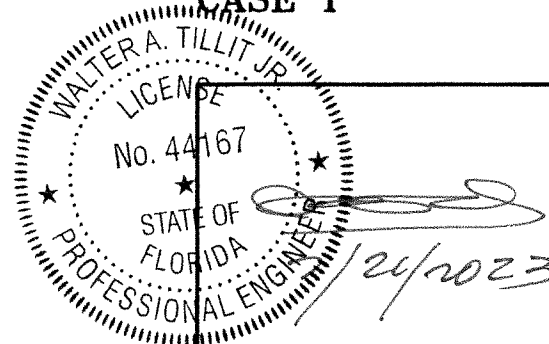


**EXTERIOR ELEVATION
REGULAR WOOD PANELING OUT-SWING DOUBLE DOOR**

CASE I

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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Y.M.
DRAWN BY:

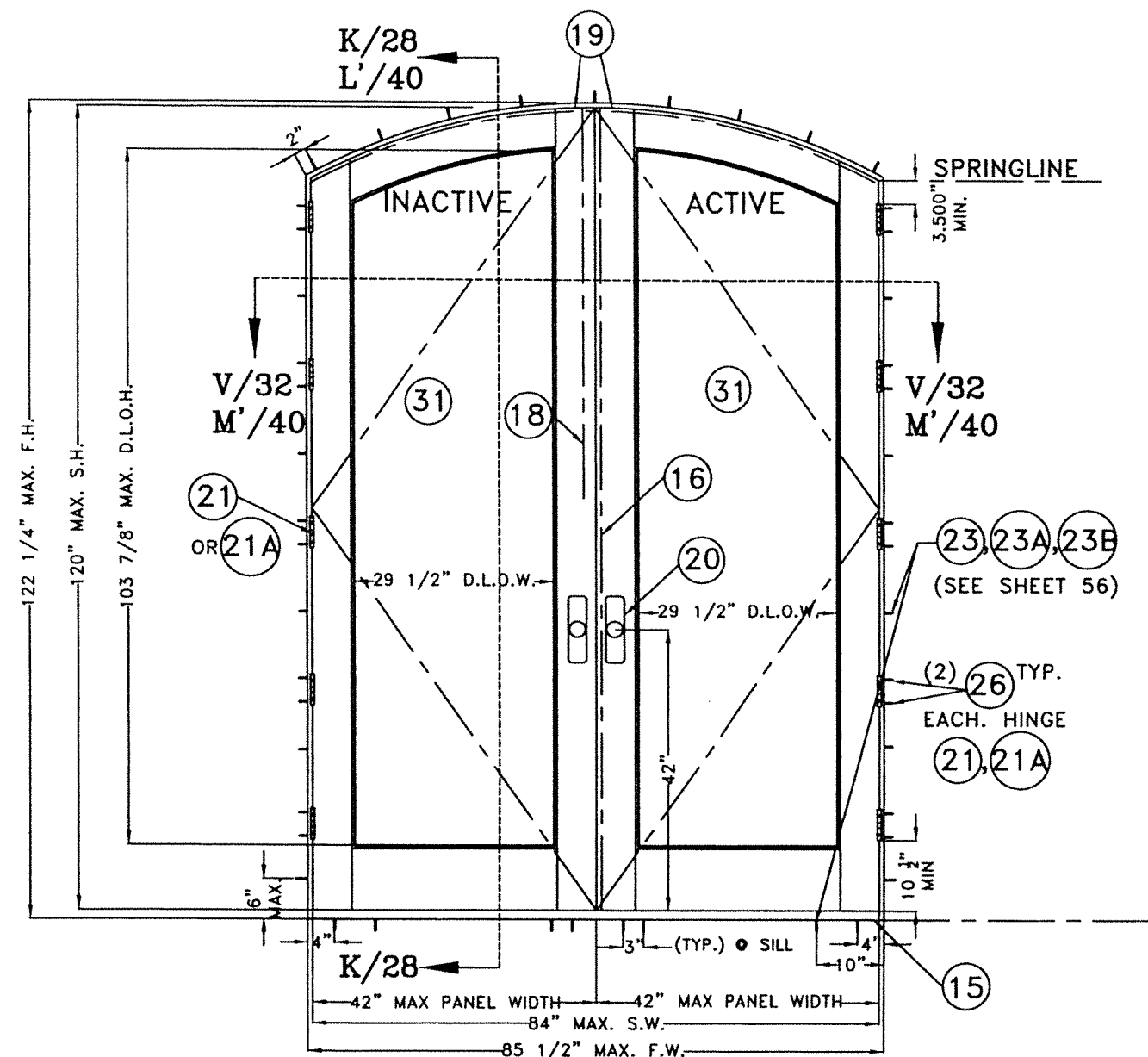
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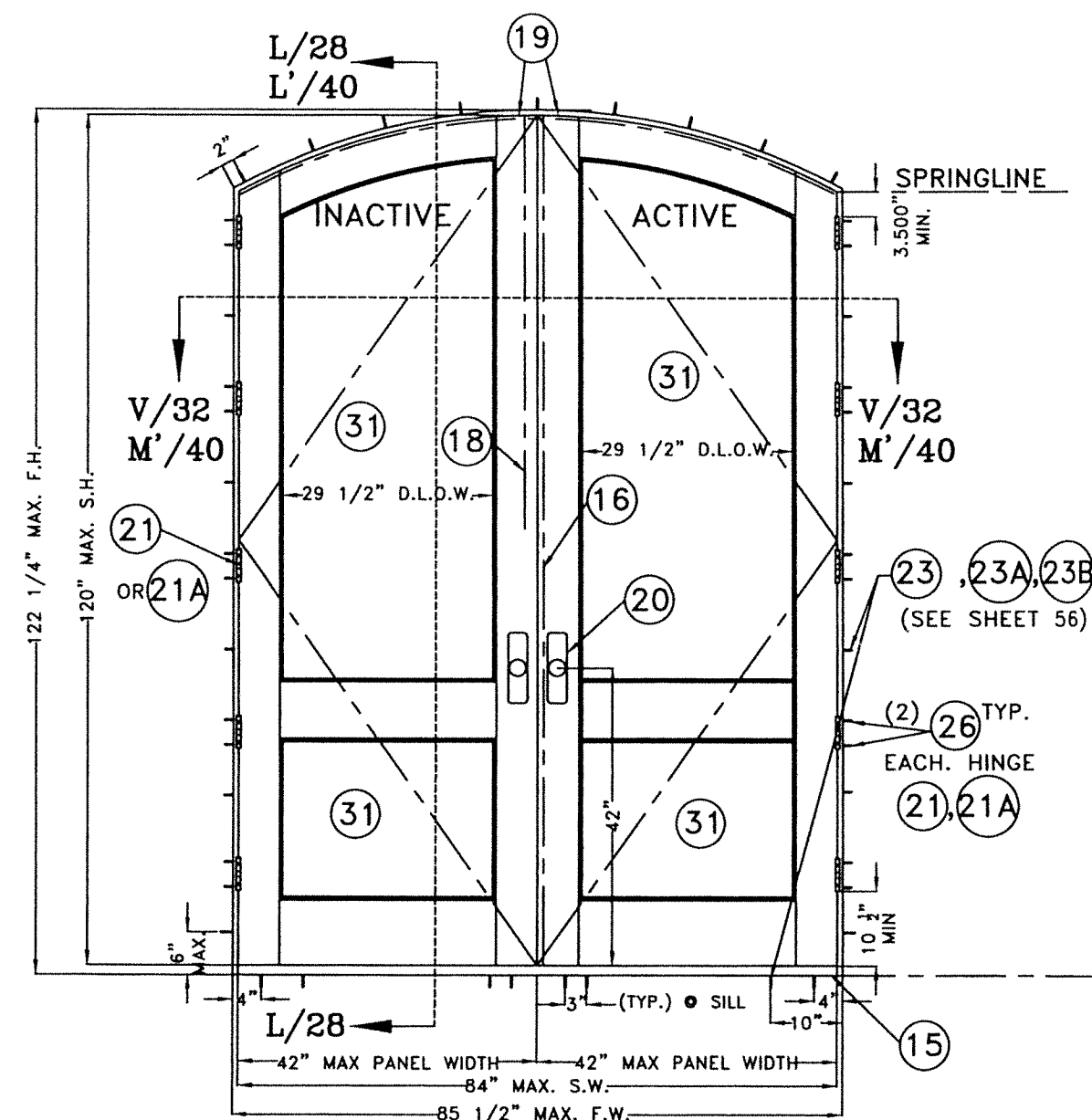
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 11 OF 57



MODEL 1
N.T.S



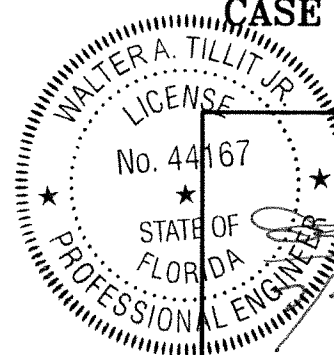
MODEL 2
N.T.S

EXTERIOR ELEVATION
EYEBROW WOOD PANELING OUT-SWING DOUBLE DOOR

CASE I

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



P.E. SEAL/SIGNATURE/DATE

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Y.M.
DRAWN BY:

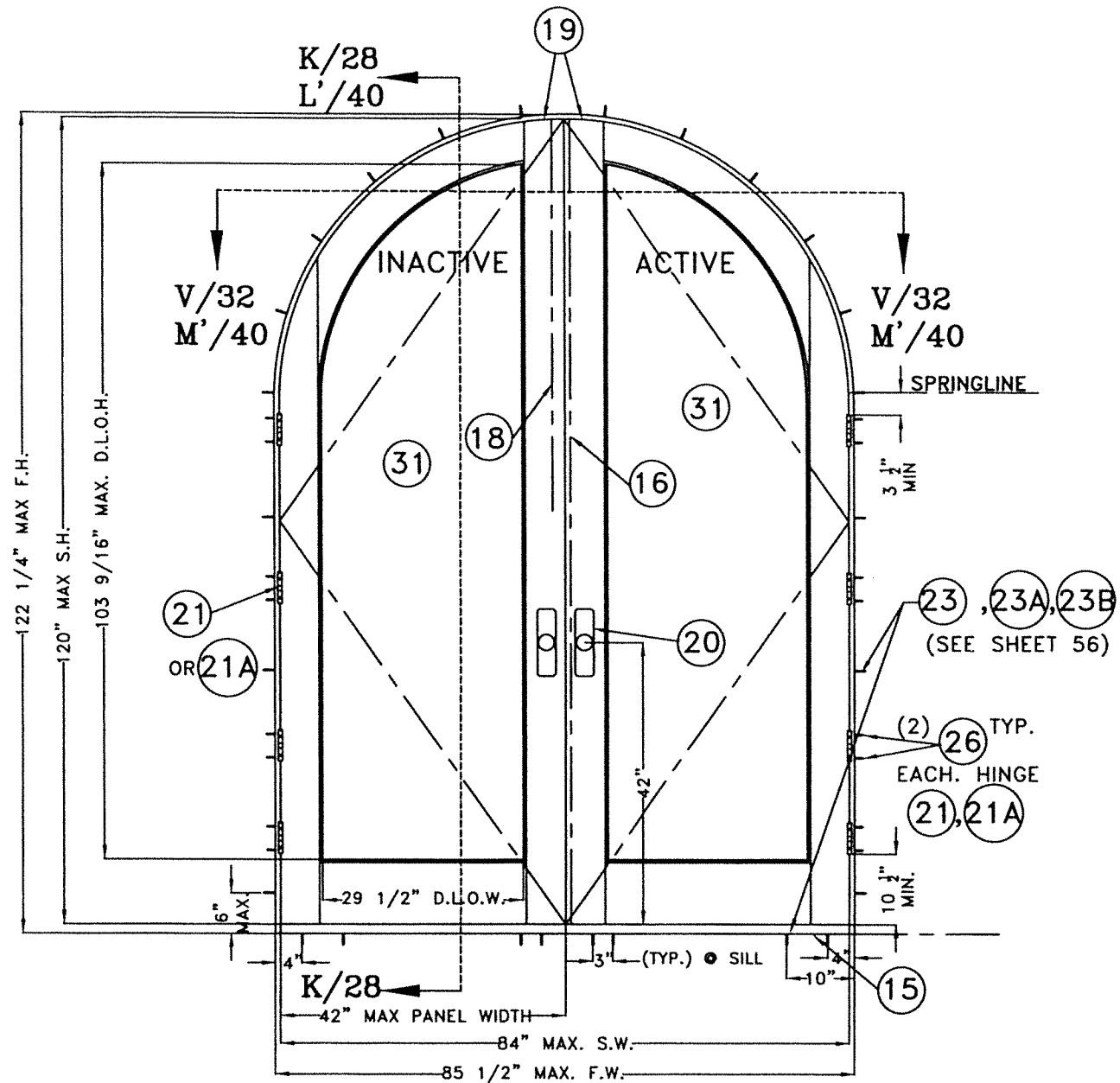
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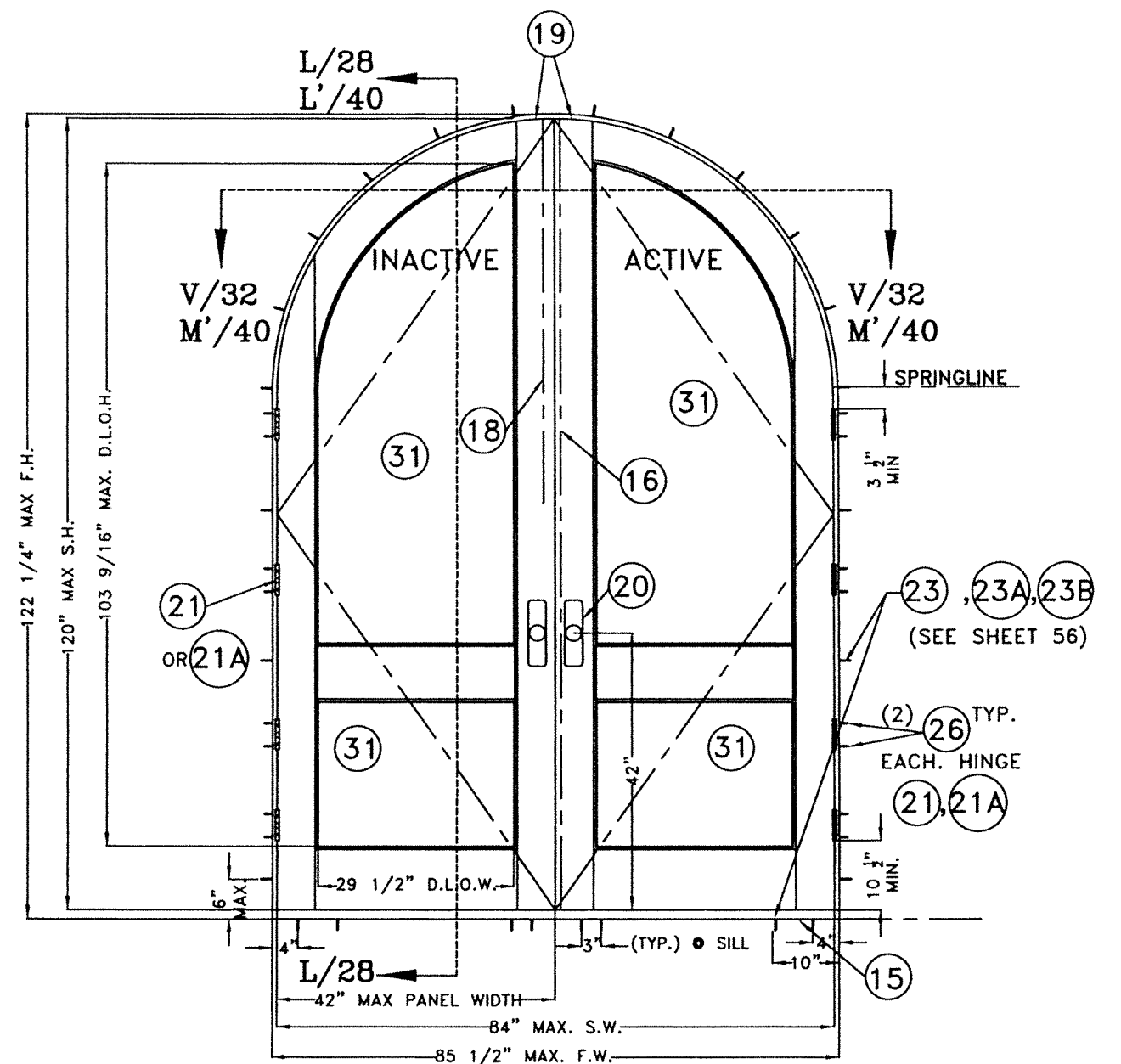
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 12 OF 57



MODEL 1
N.T.S

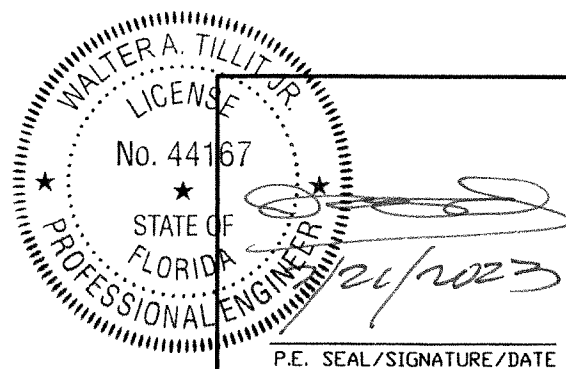


MODEL 2
N.T.S

EXTERIOR ELEVATION
FULL ARCH WOOD PANELING OUT-SWING DOUBLE DOOR
CASE I

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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FLORIDA Lic. # 44167

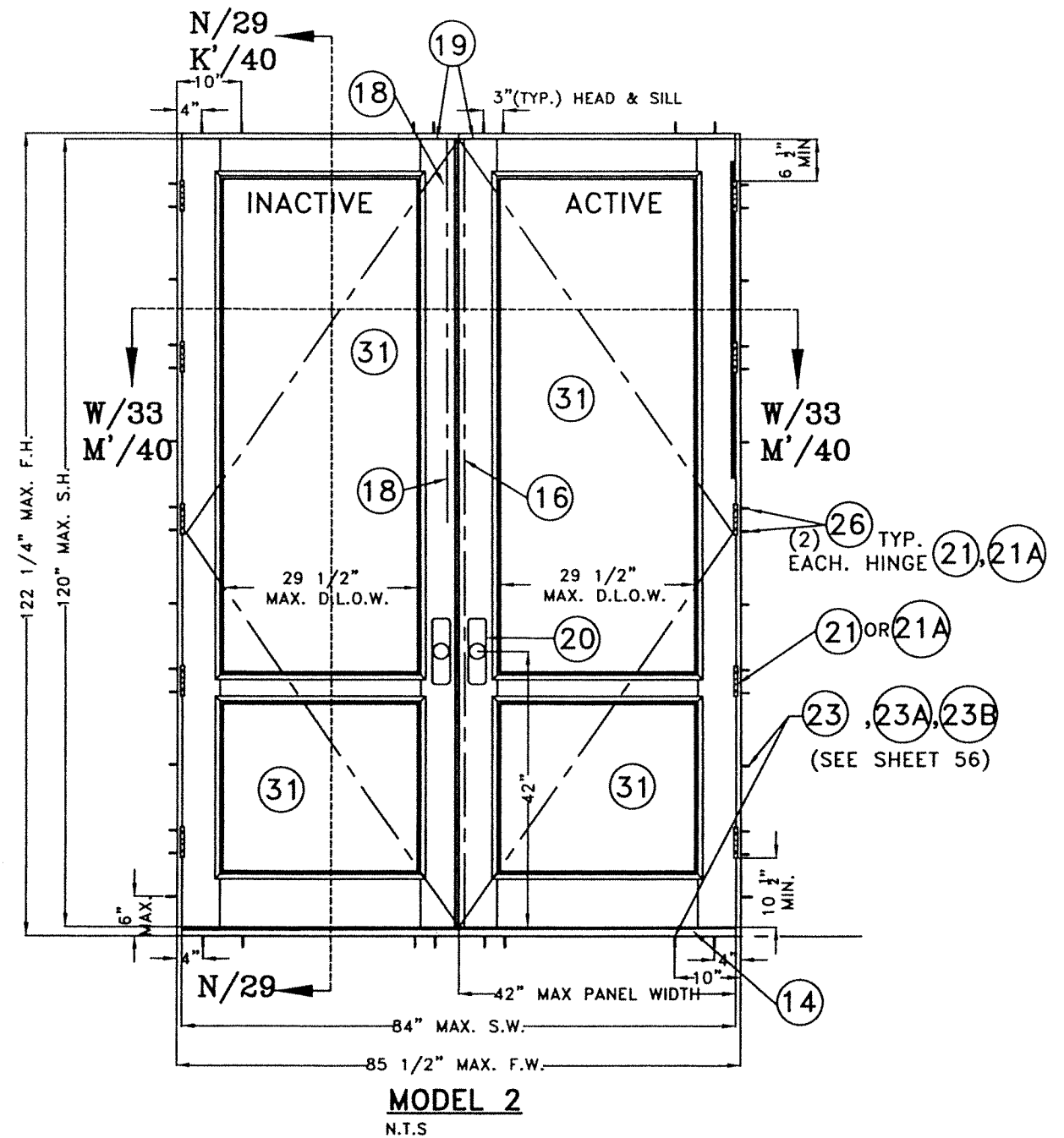
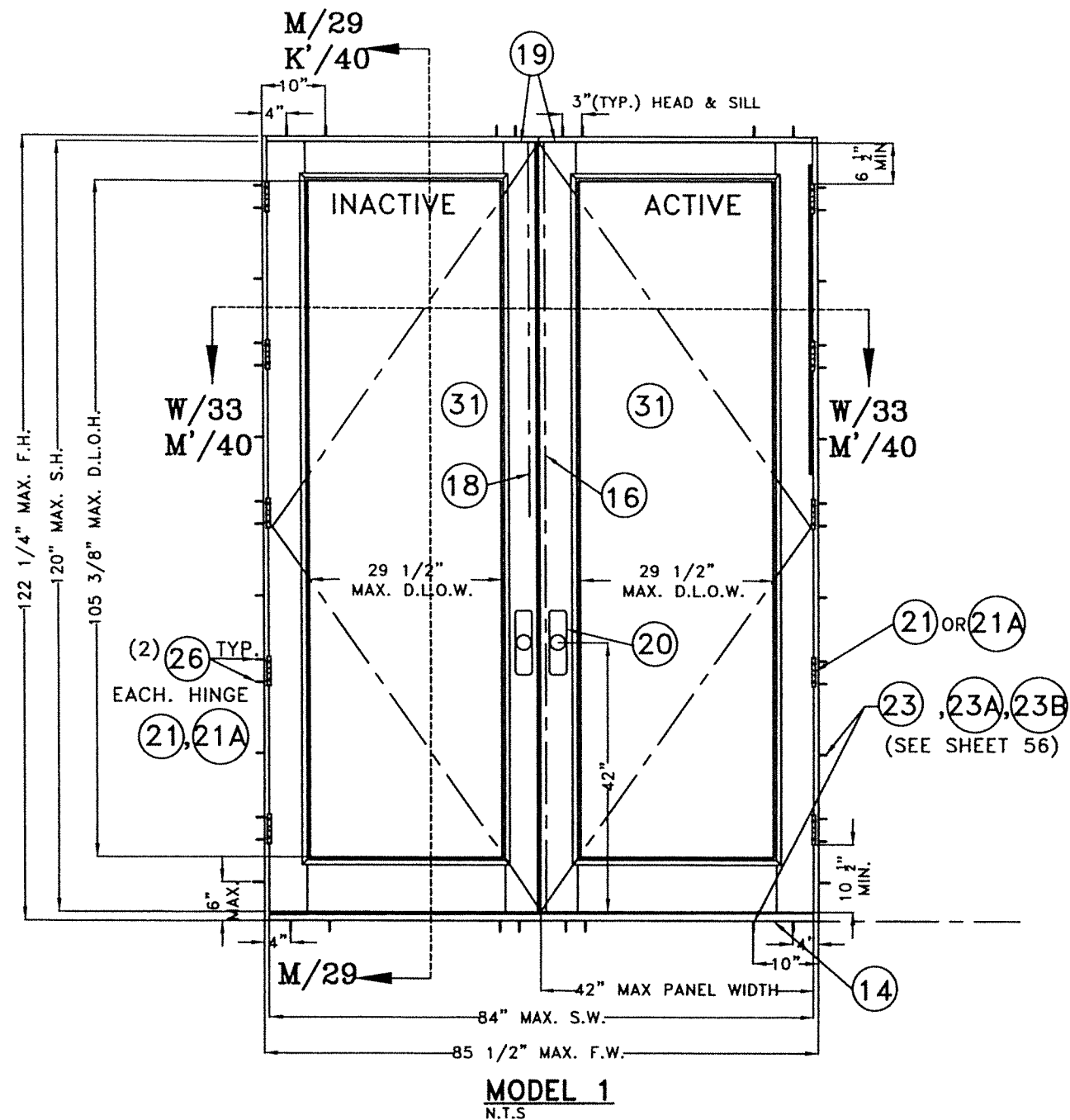
**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:
7/21/2023
DATE:

23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-

SHEET 13 OF 57

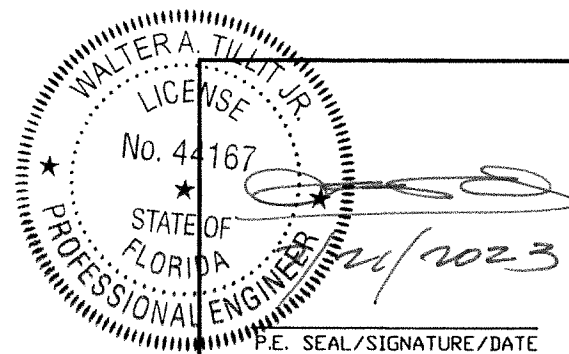


**EXTERIOR ELEVATION
REGULAR WOOD PANELING IN-SWING DOUBLE DOOR**

CASE I

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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

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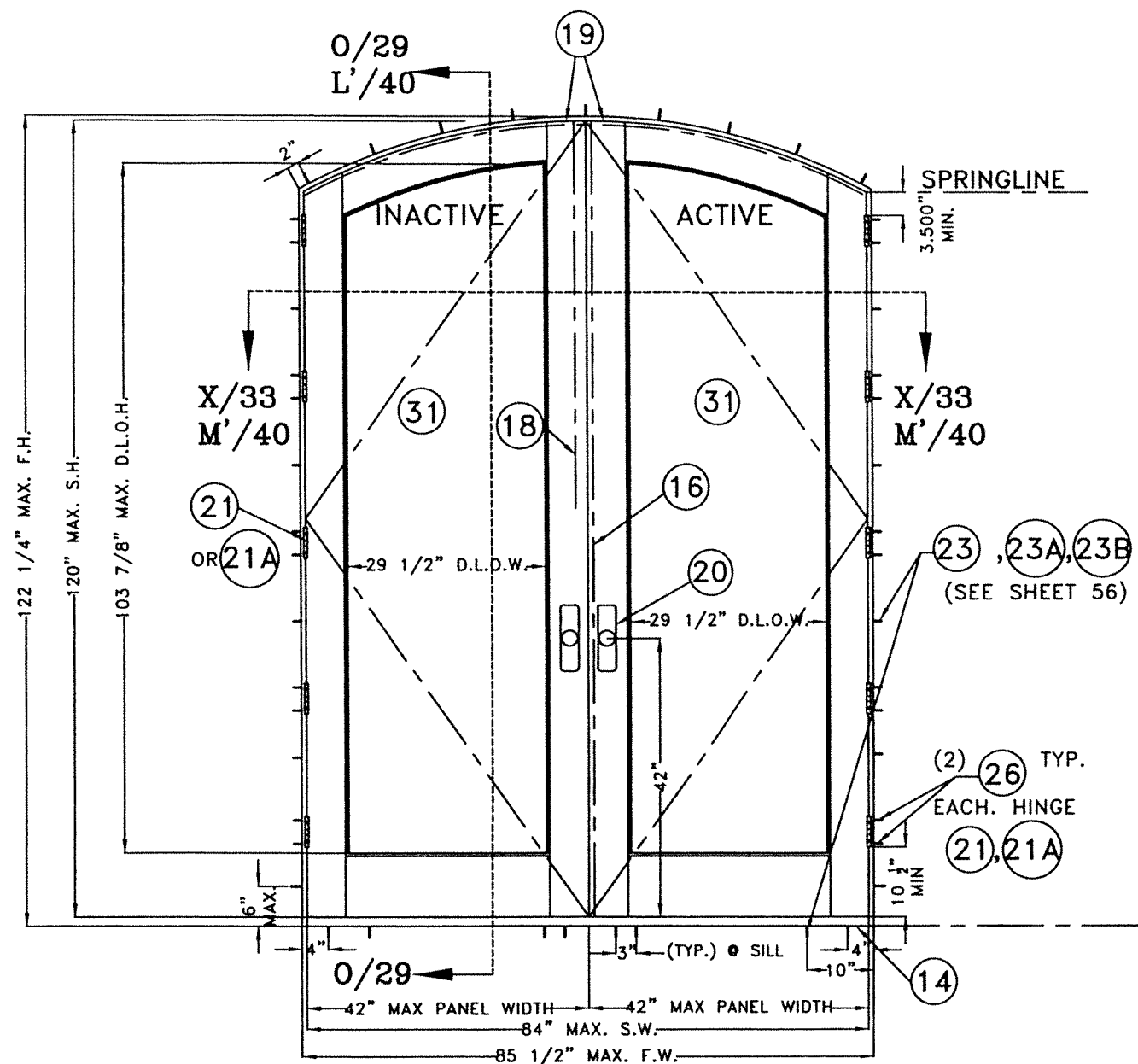
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

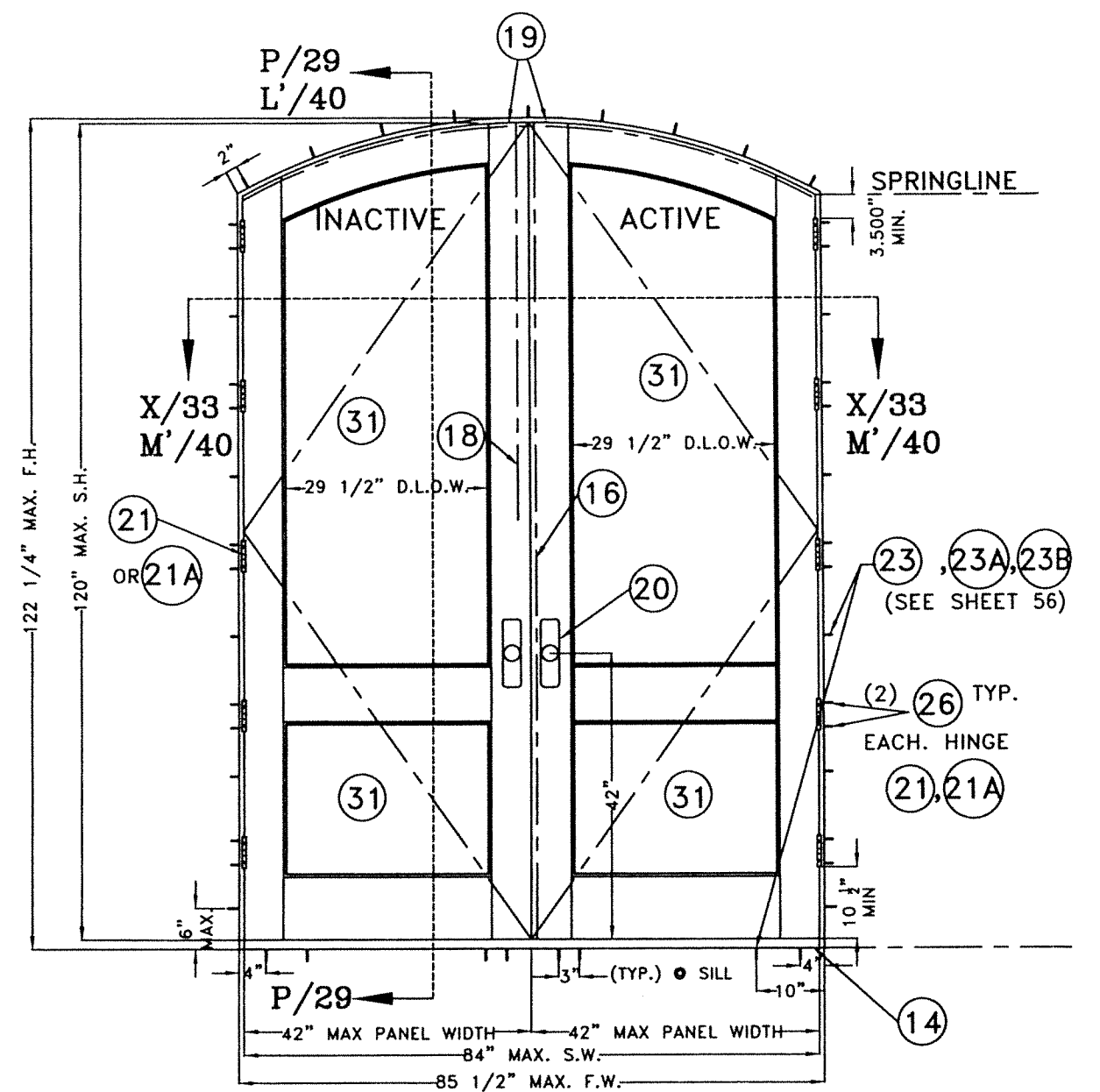
Y.M.
DRAWN BY:
7/21/2023
DATE:
23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

SHEET 14 OF 57



MODEL 1
N.T.S



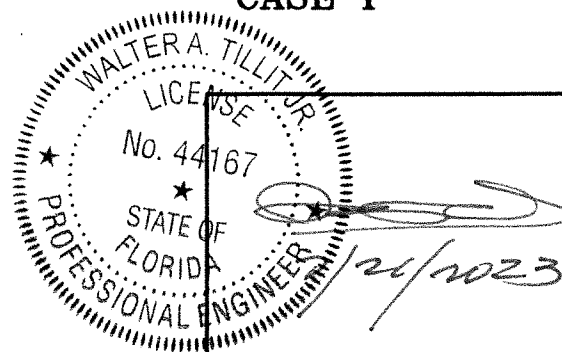
MODEL 2
N.T.S

EXTERIOR ELEVATION
EYEBROW WOOD PANELING IN-SWING DOUBLE DOOR

CASE I

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



P.E. SEAL/SIGNATURE/DATE

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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

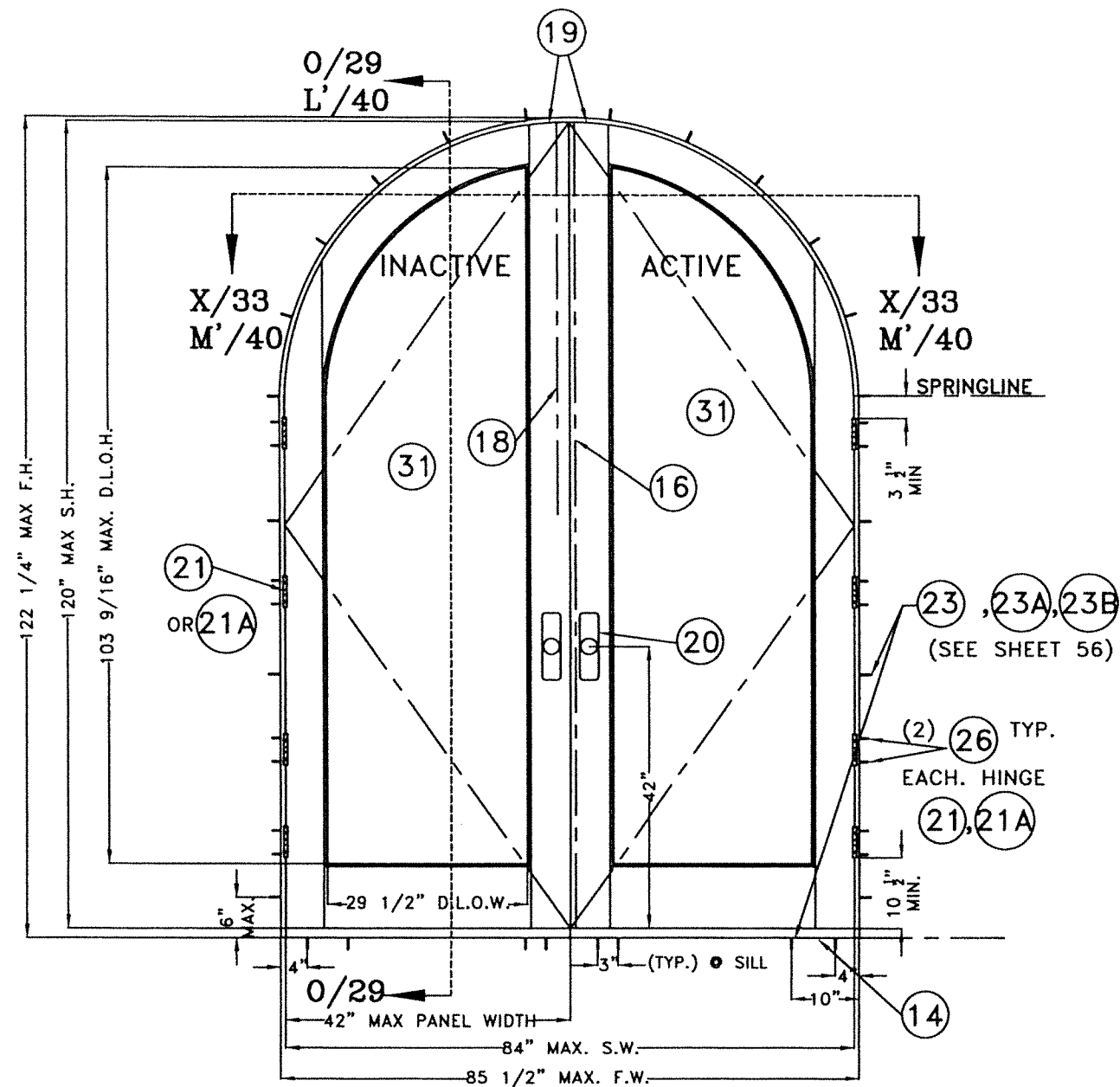
Y.M.
DRAWN BY:

7/21/2023
DATE:

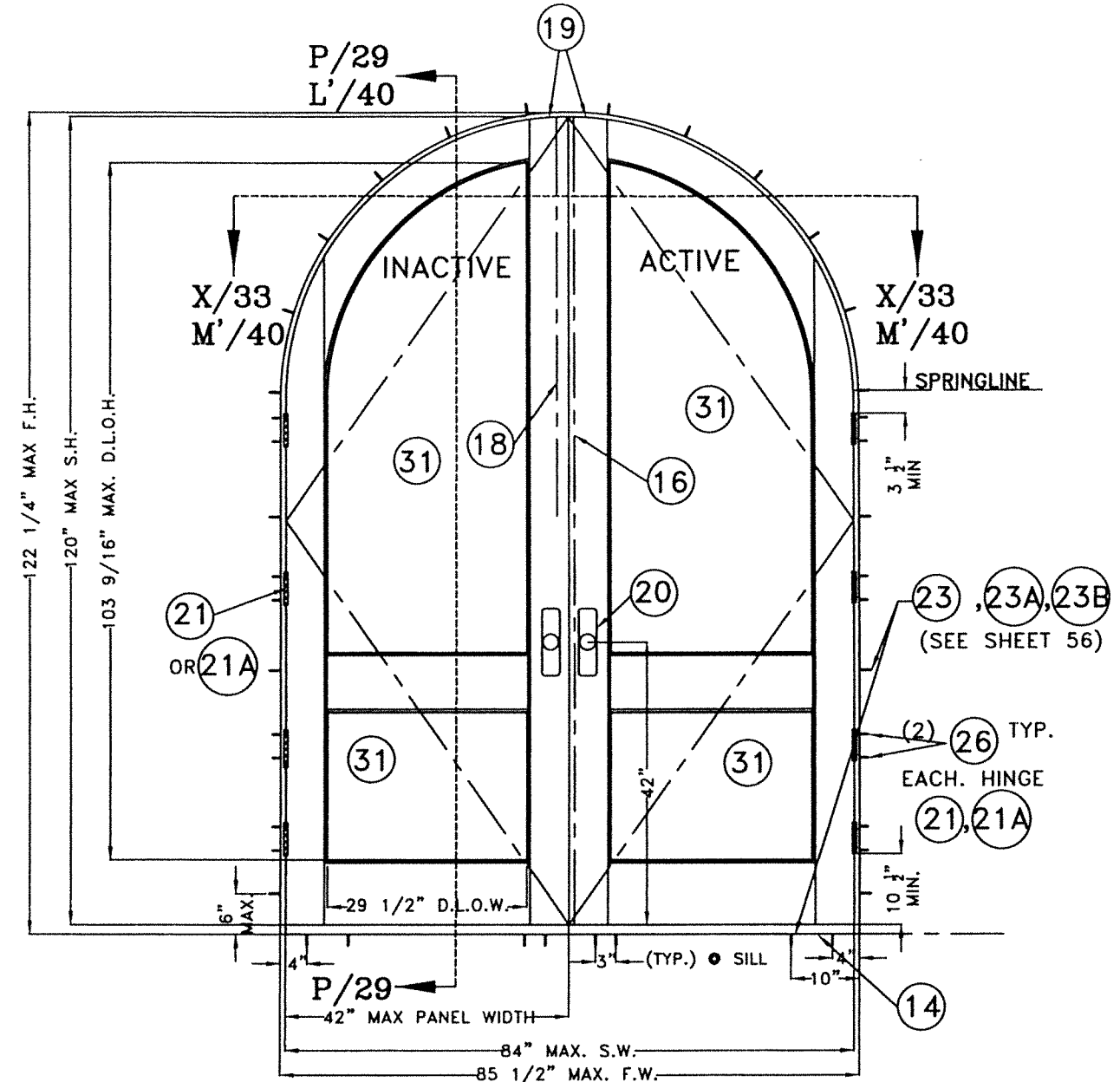
23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

SHEET 15 OF 57



MODEL 1
N.T.S



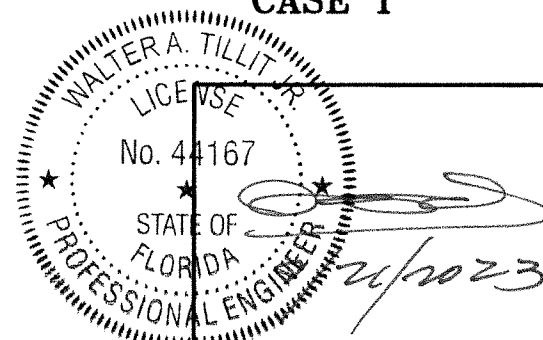
MODEL 2
N.T.S

EXTERIOR ELEVATION
FULL ARCH WOOD PANELING IN-SWING DOUBLE DOOR

CASE I

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



P.E. SEAL/SIGNATURE/DATE

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**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

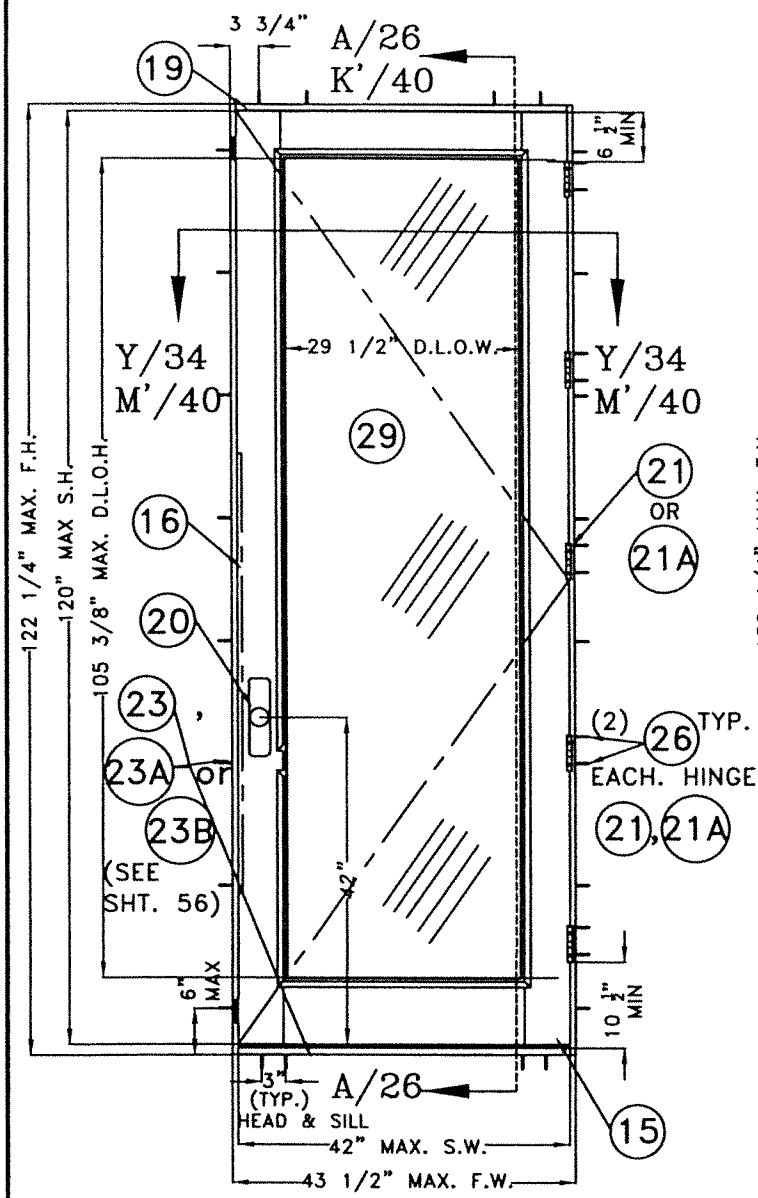
7/21/2023
DATE:

23-125

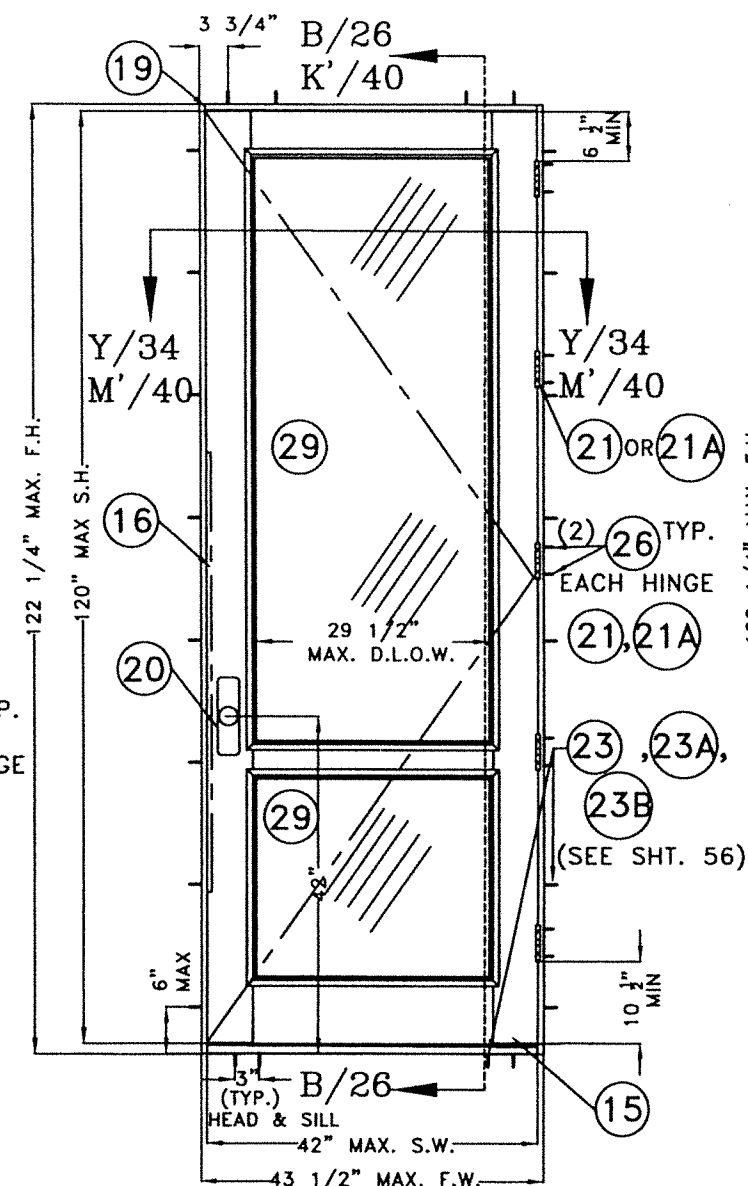
DRAWING No.

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2	-	-	4	-	-

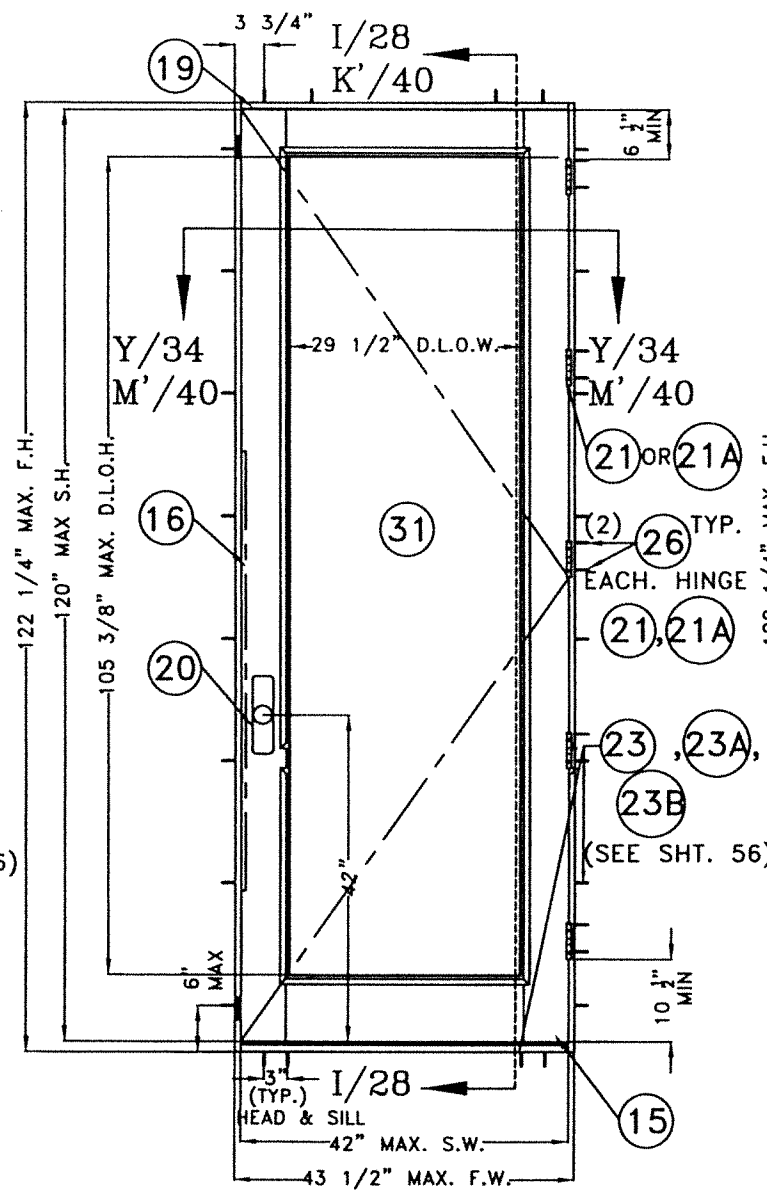
SHEET 16 OF 57



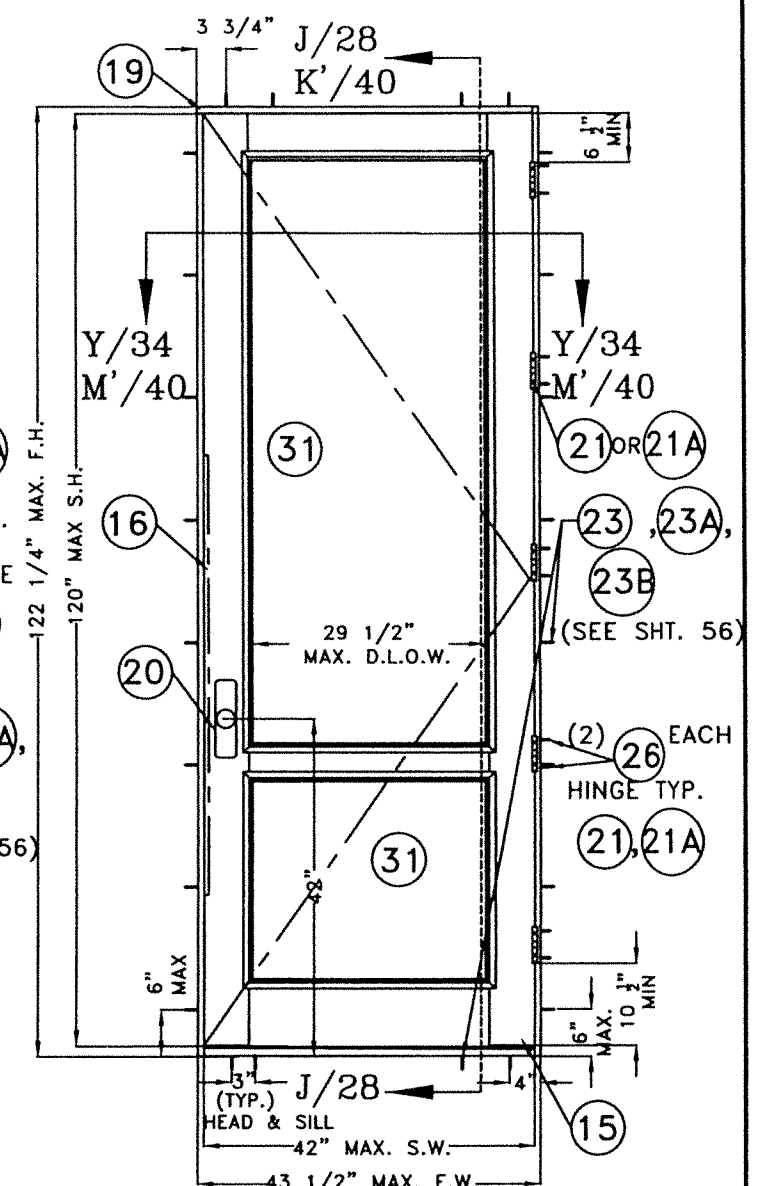
MODEL 1
N.T.S.
REGULAR GLAZED OUT-SWING SINGLE DOOR



MODEL 2
N.T.S.
REGULAR WOOD PANELING OUT-SWING SINGLE DOOR



MODEL 1
N.T.S.
REGULAR WOOD PANELING OUT-SWING SINGLE DOOR

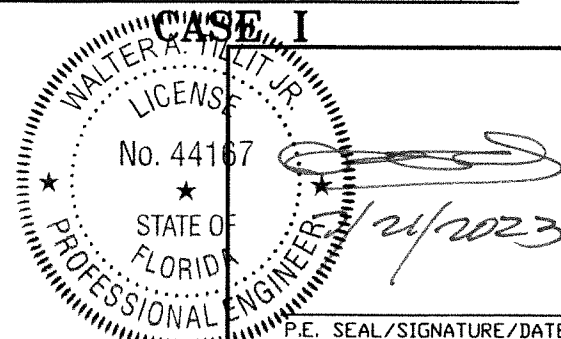


PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT

**EXTERIOR ELEVATION
REGULAR SINGLE DOOR**

CASE I



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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

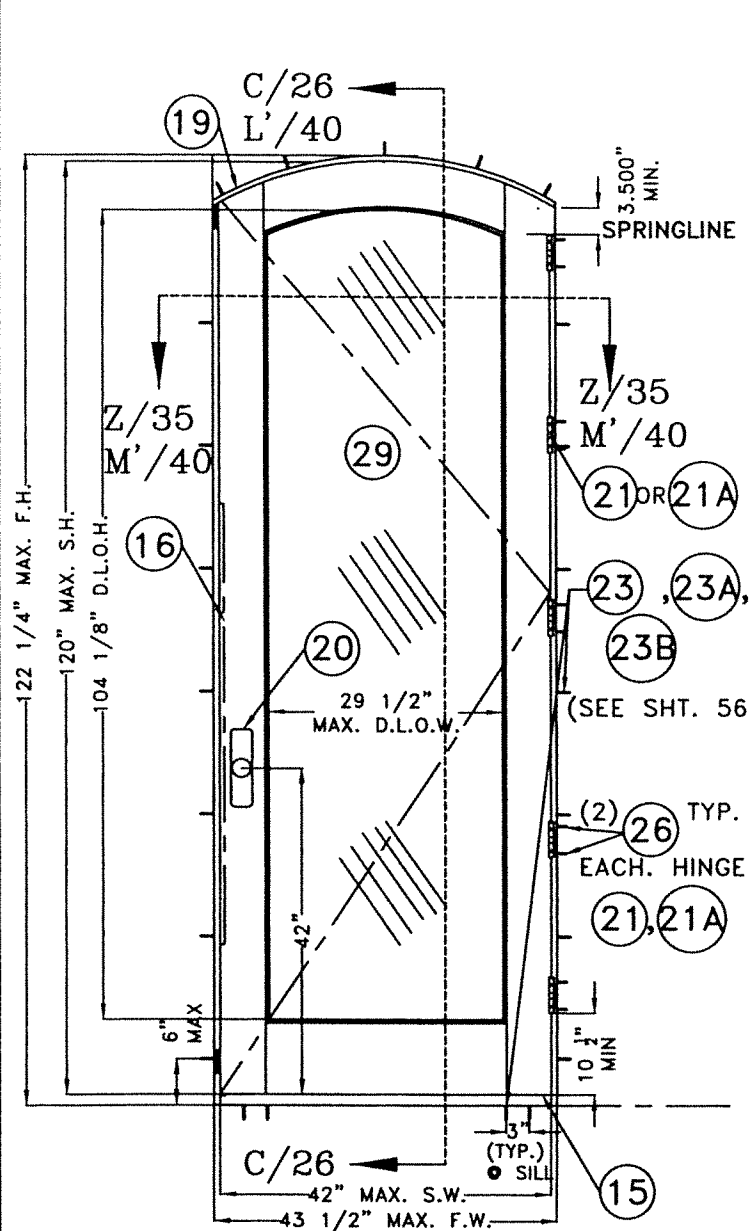
Y.M.
DRAWN BY:

7/21/2023
DATE:

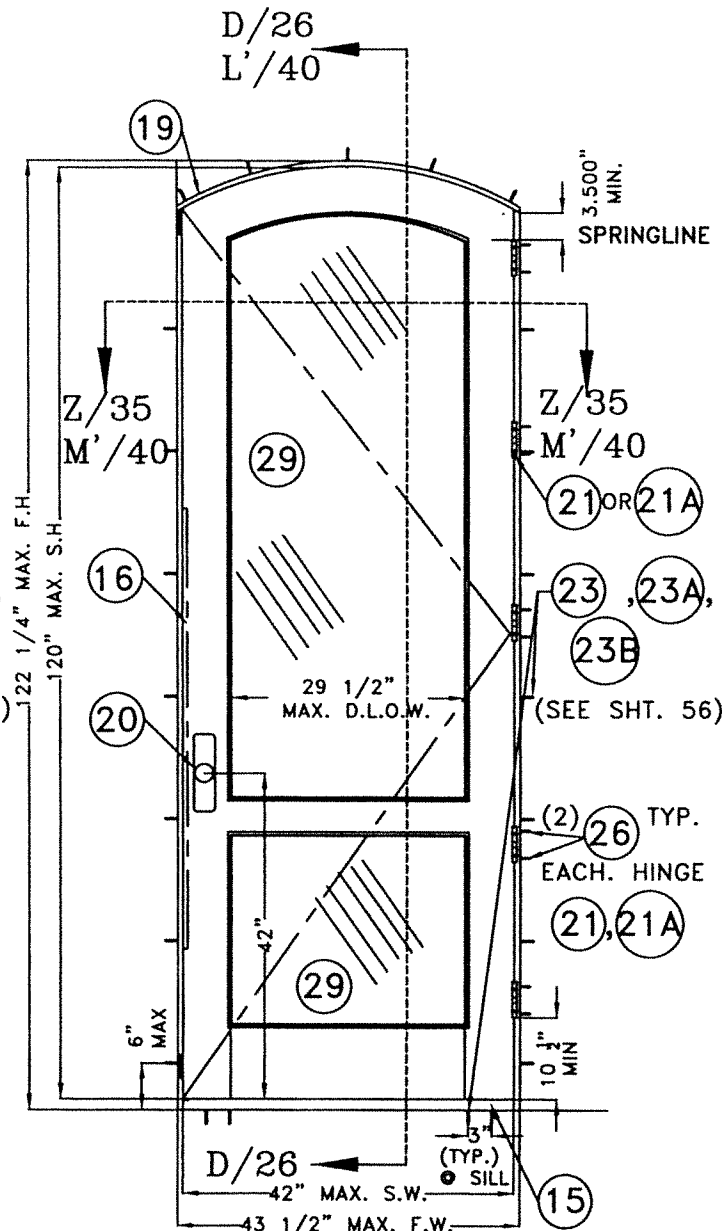
23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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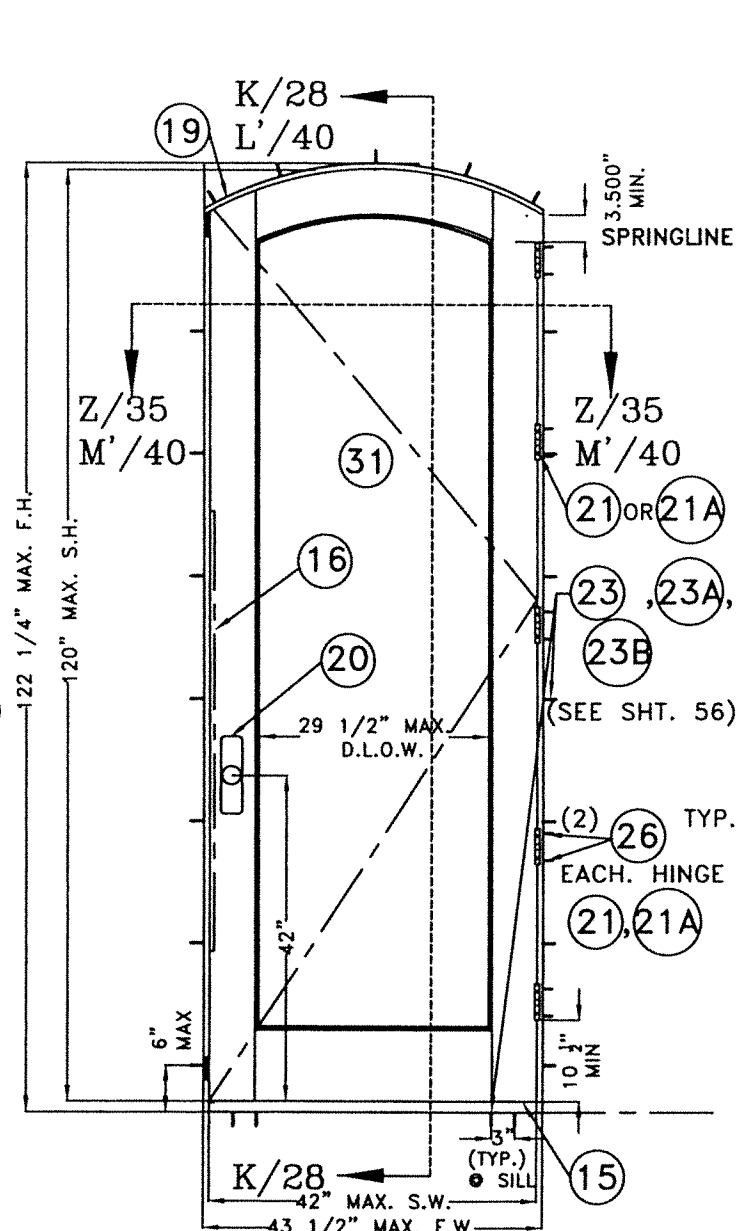
SHEET 17 OF 57



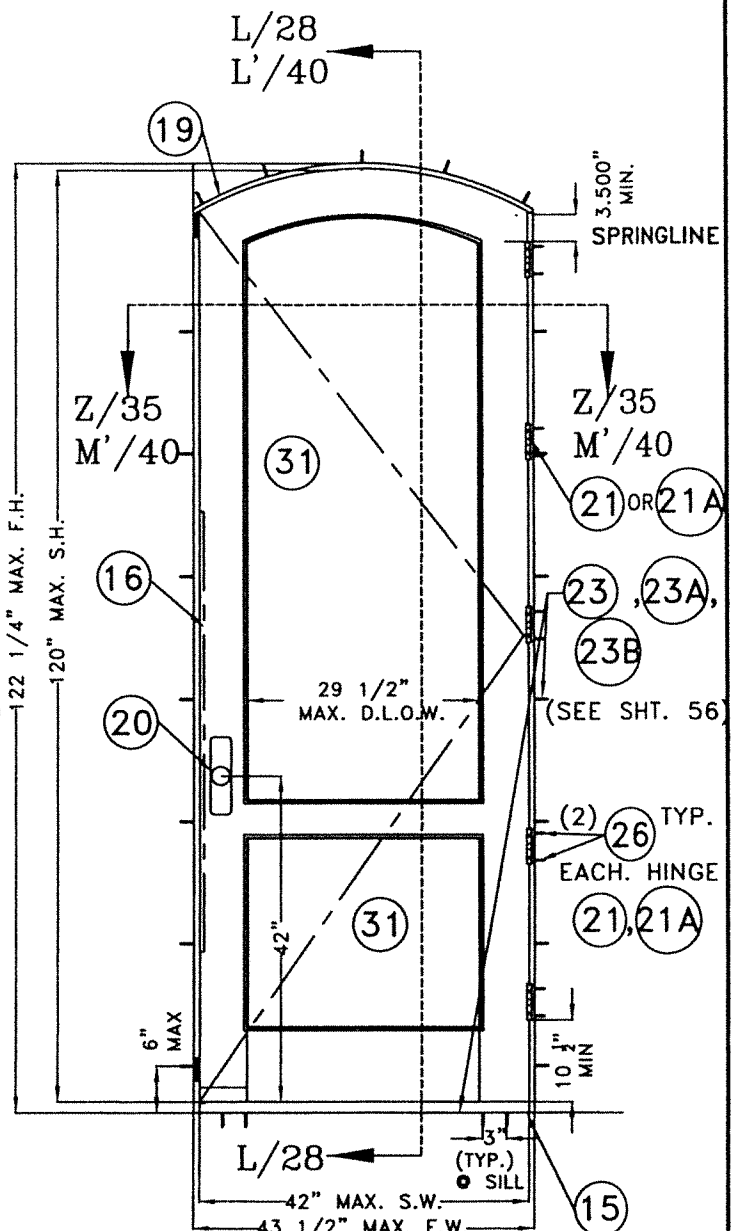
MODEL 1
N.T.S



MODEL 2
N.T.S



MODEL 1
N.T.S



MODEL 2
N.T.S

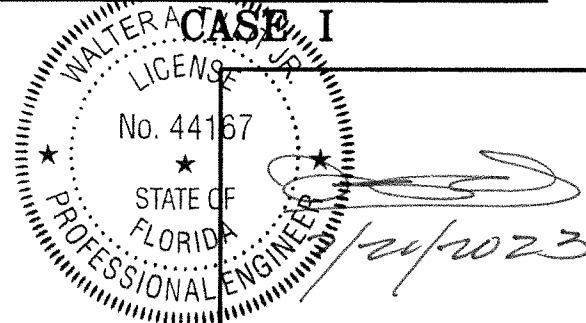
EYEBROW GLAZED OUT-SWING SINGLE DOOR

EYEBROW WOOD PANELING OUT-SWING SINGLE DOOR

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT

**EXTERIOR ELEVATION
EYEBROW SINGLE DOOR**



P.E. SEAL/SIGNATURE/DATE

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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

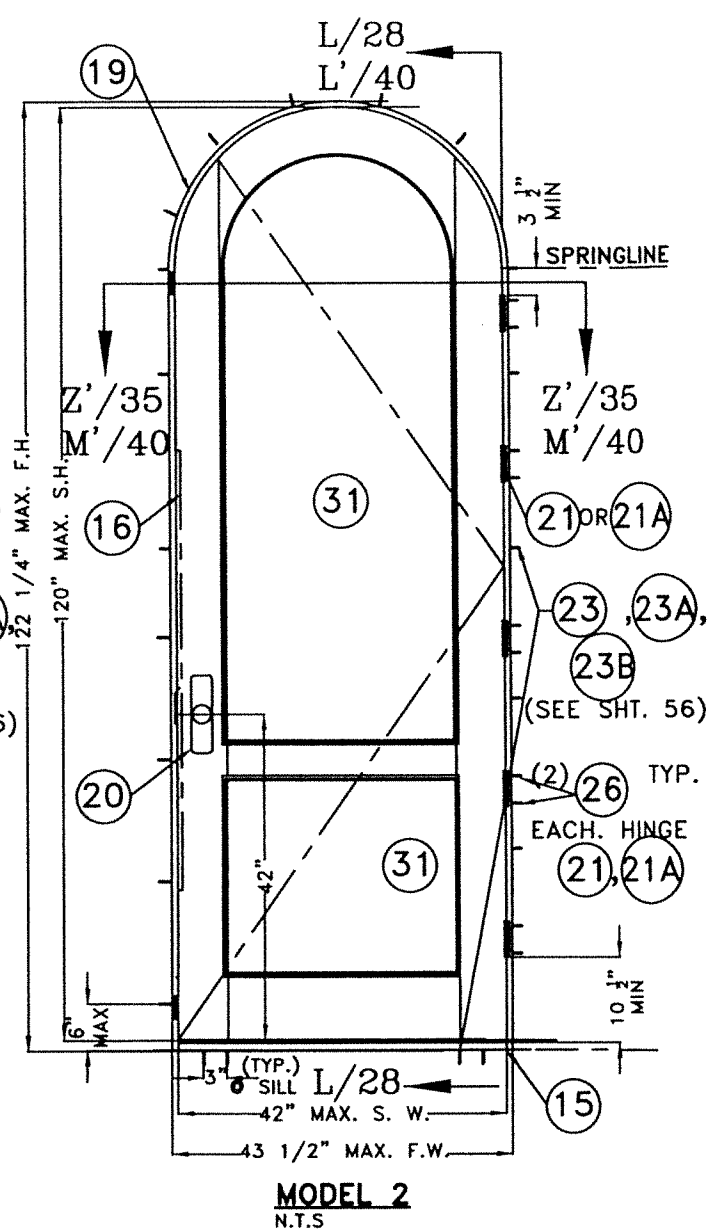
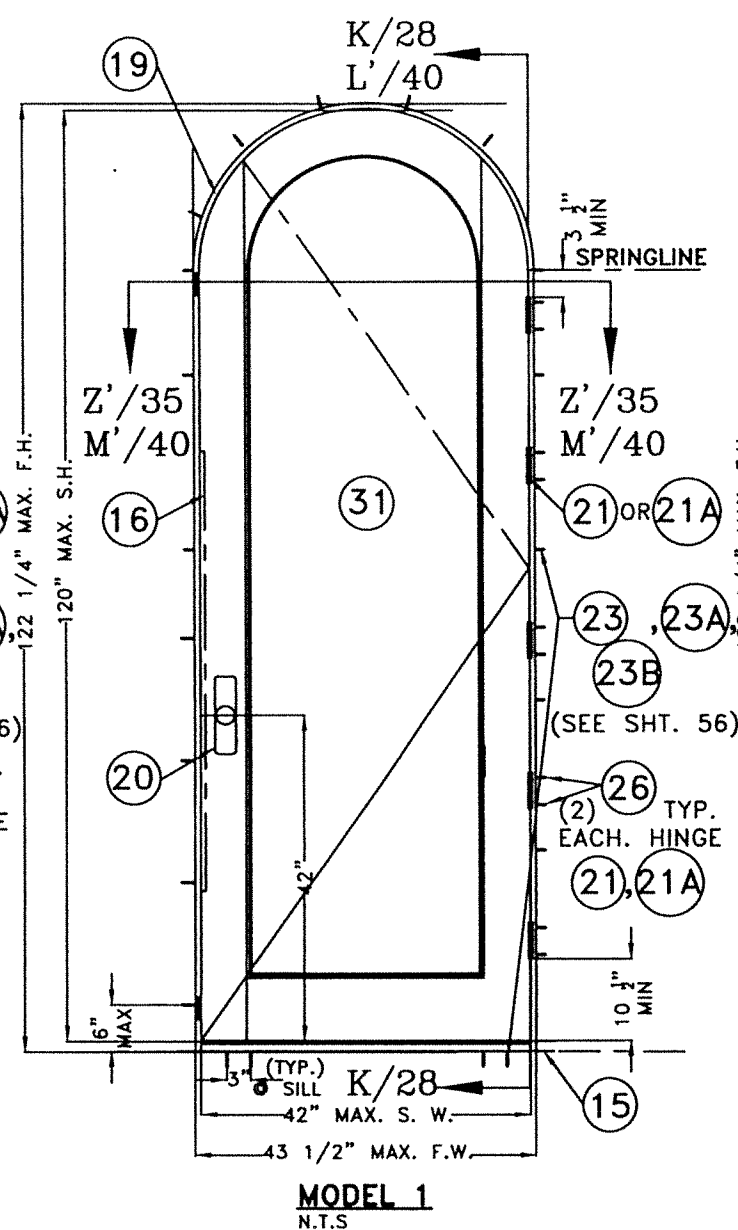
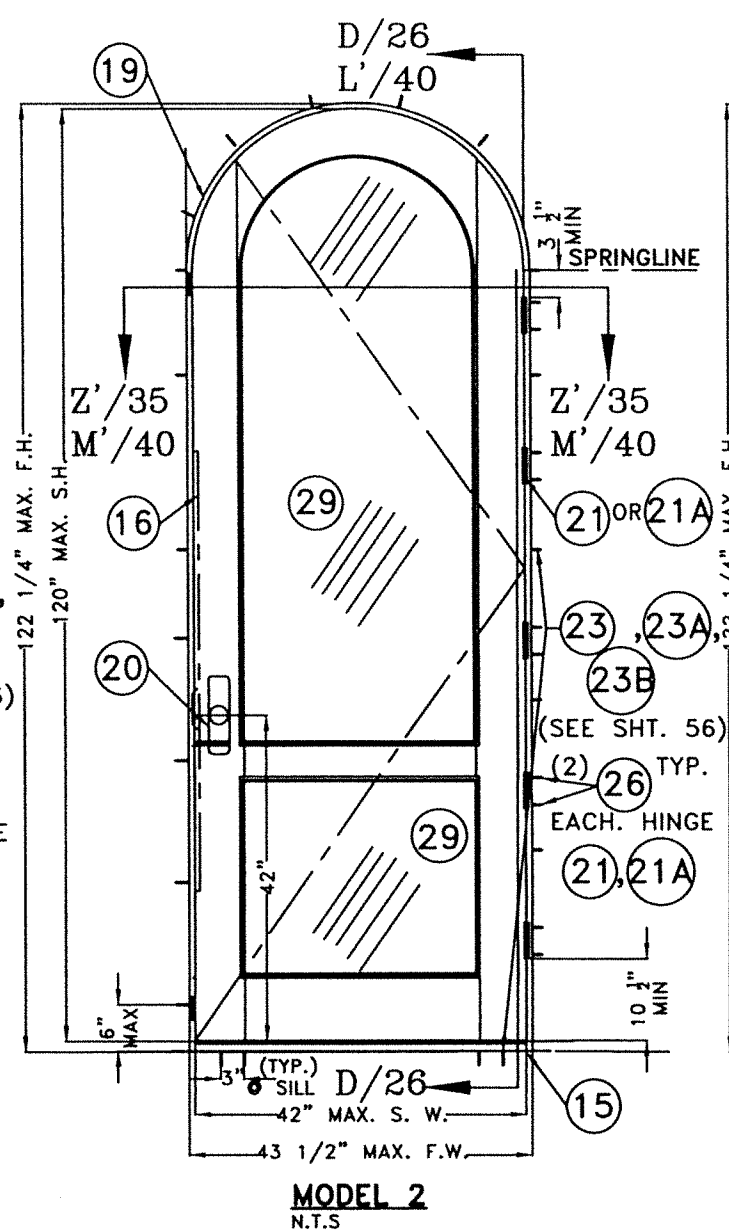
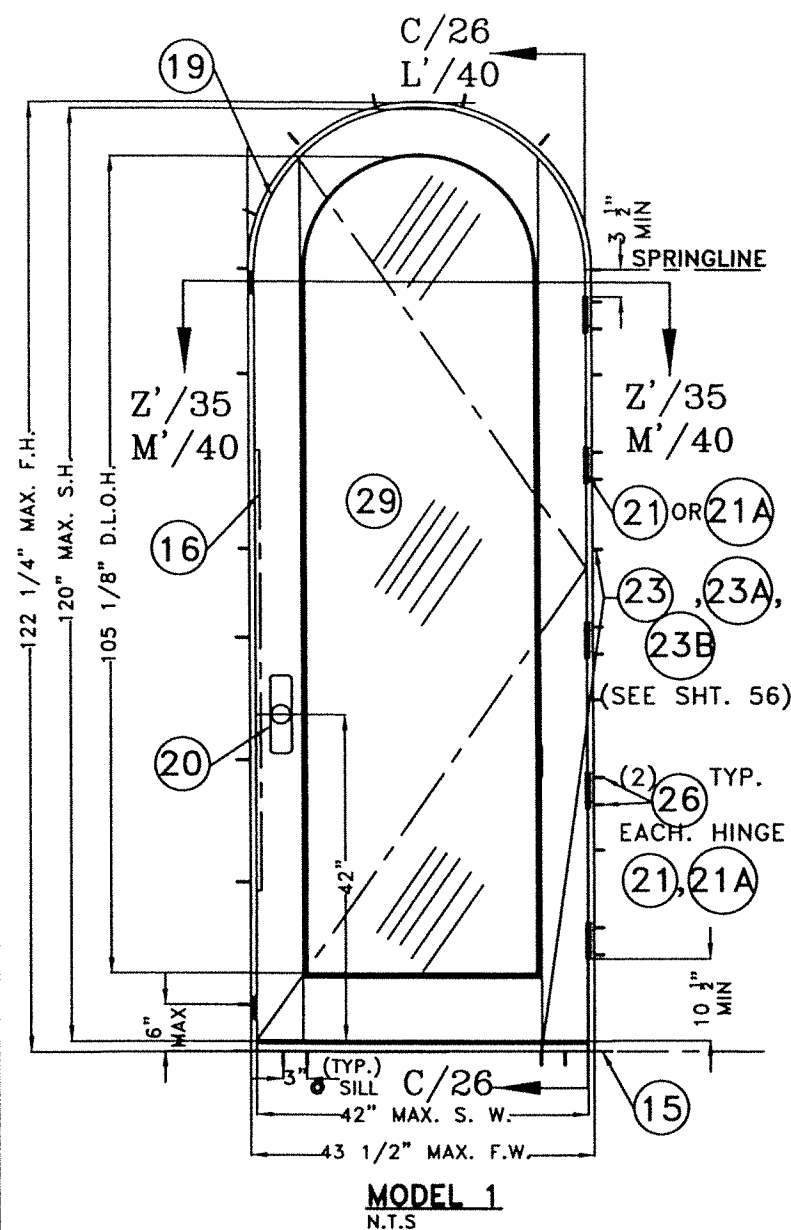
Y.M.
DRAWN BY:

7/21/2023
DATE:

23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

SHEET 18 OF 57



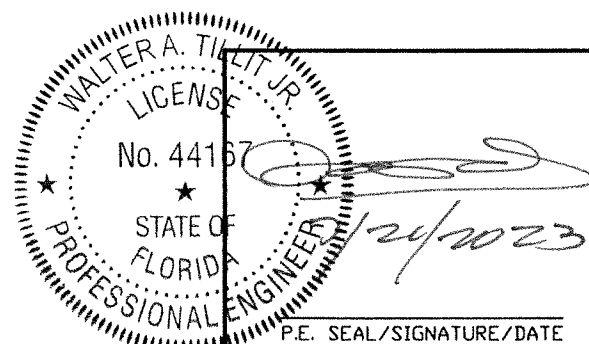
FULL ARCHED GLAZED OUT-SWING SINGLE DOOR

FULL ARCHED WOOD PANELING OUT-SWING SINGLE DOOR

**EXTERIOR ELEVATION
FULL ARCHED SINGLE DOOR
CASE I**

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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CA-0006719
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FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

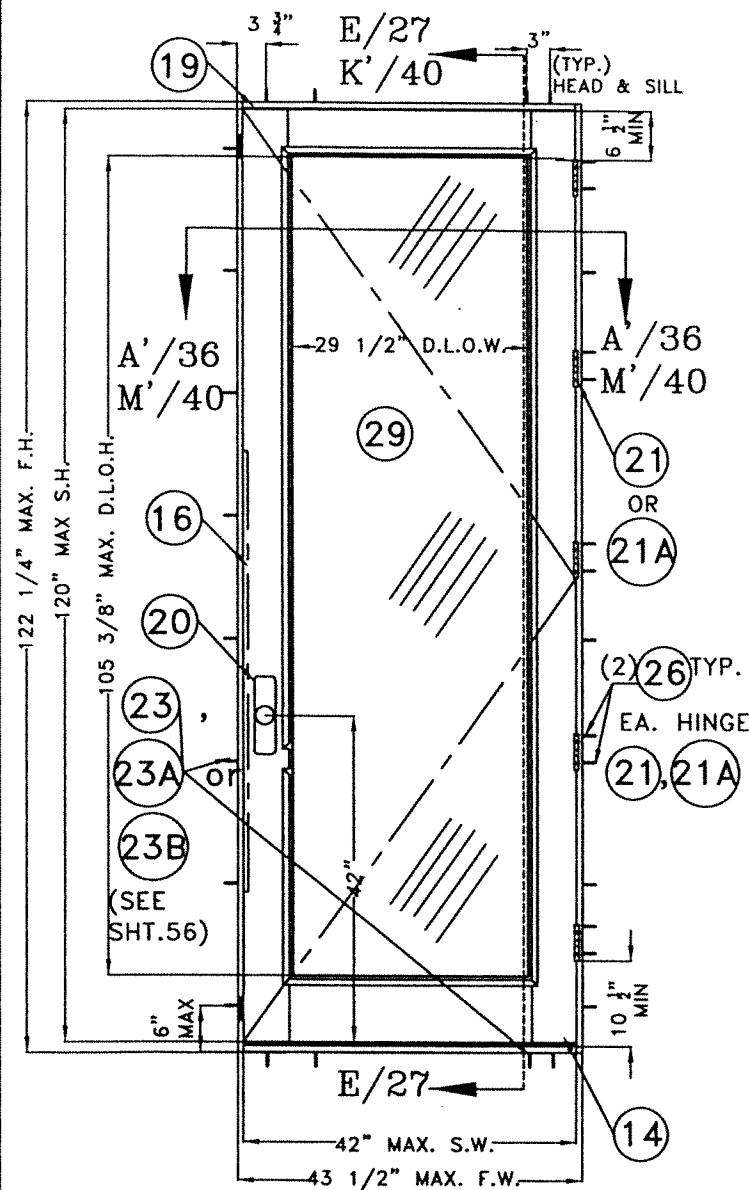
7/21/2023
DATE:

23-125

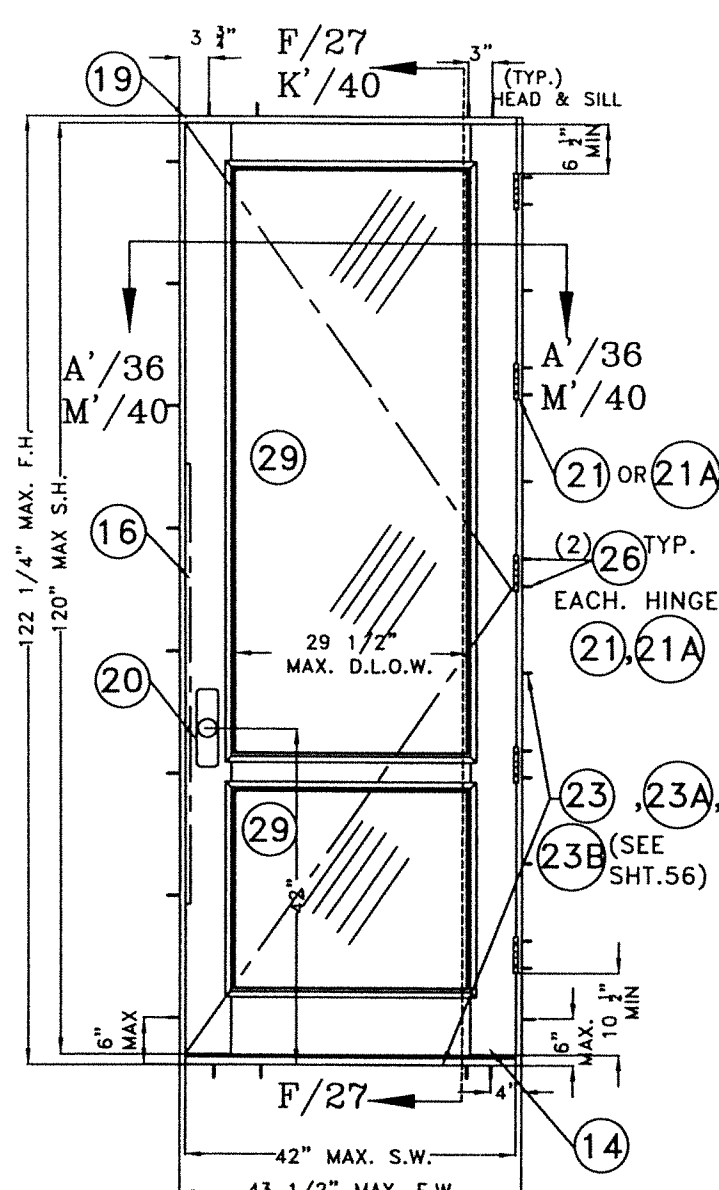
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 19 OF 57

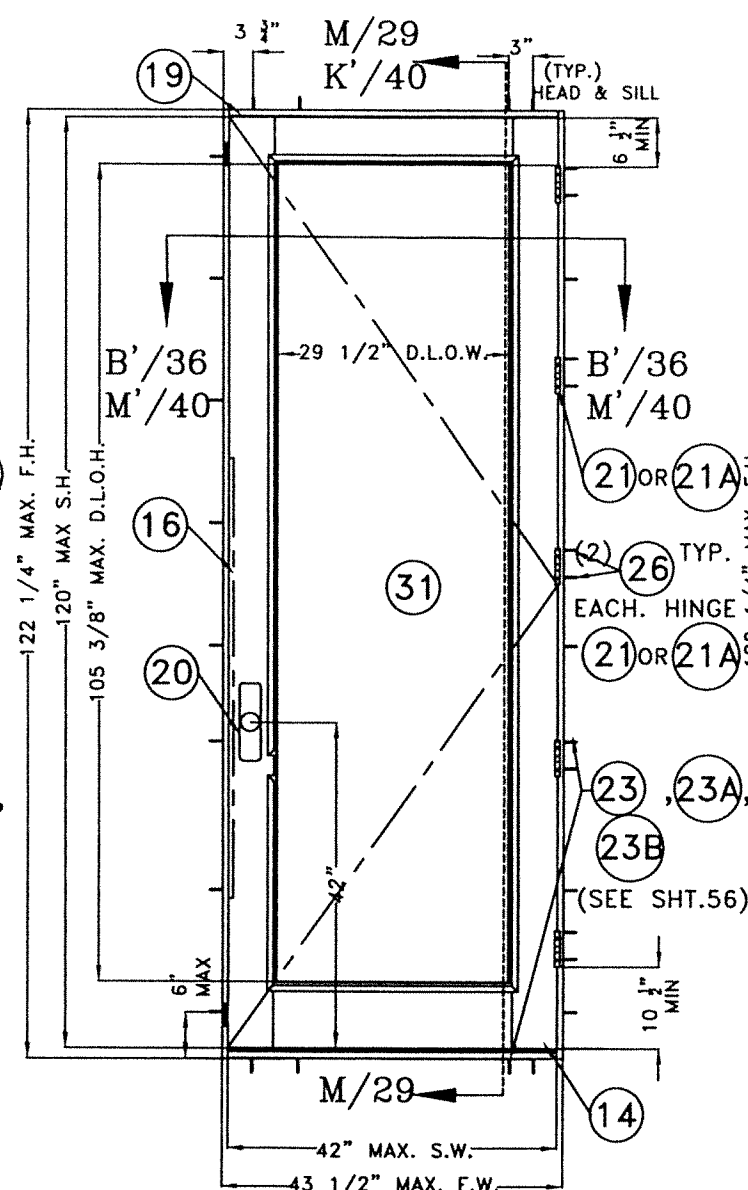


MODEL 1
N.T.S

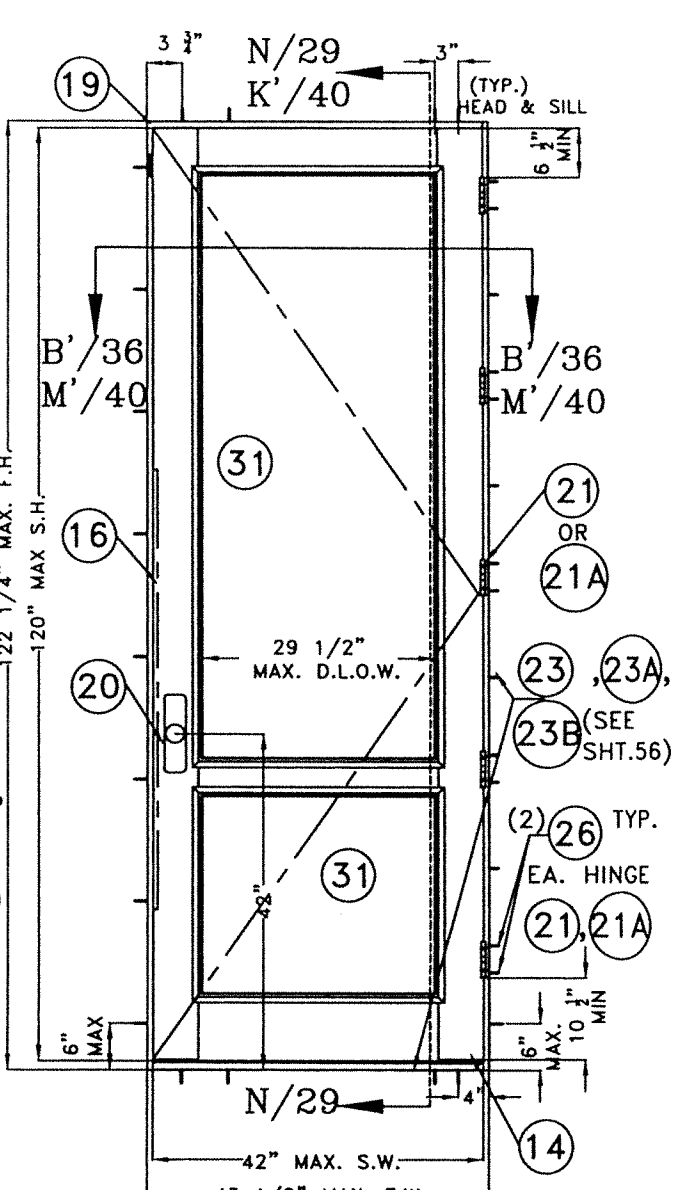


MODEL 2
N.T.S

REGULAR GLAZED IN-SWING SINGLE DOOR



MODEL 1
N.T.S



MODEL 2
N.T.S

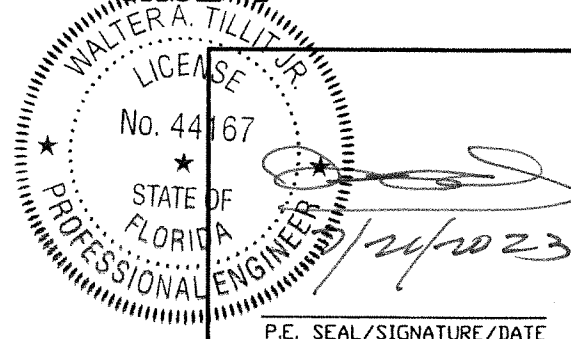
REGULAR WOOD PANELING IN-SWING SINGLE DOOR

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT

**EXTERIOR ELEVATION
REGULAR SINGLE DOOR**

CASE I

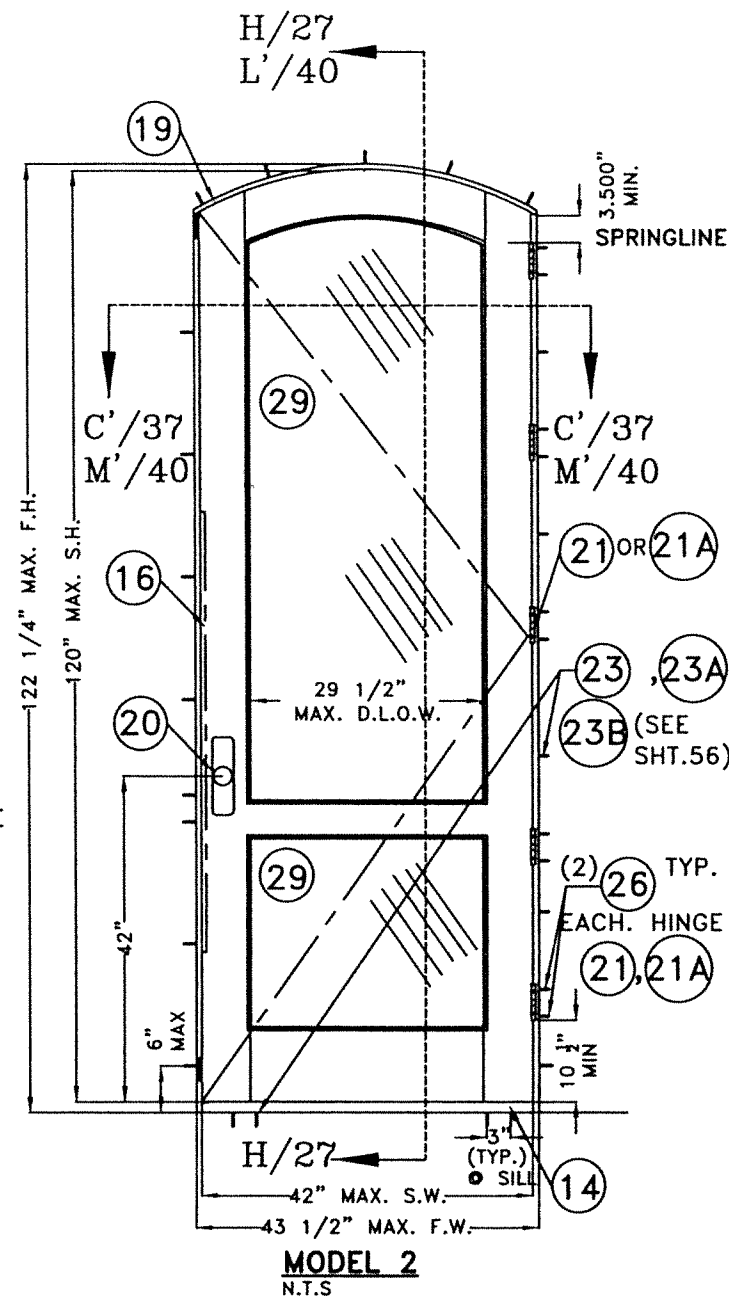


FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)

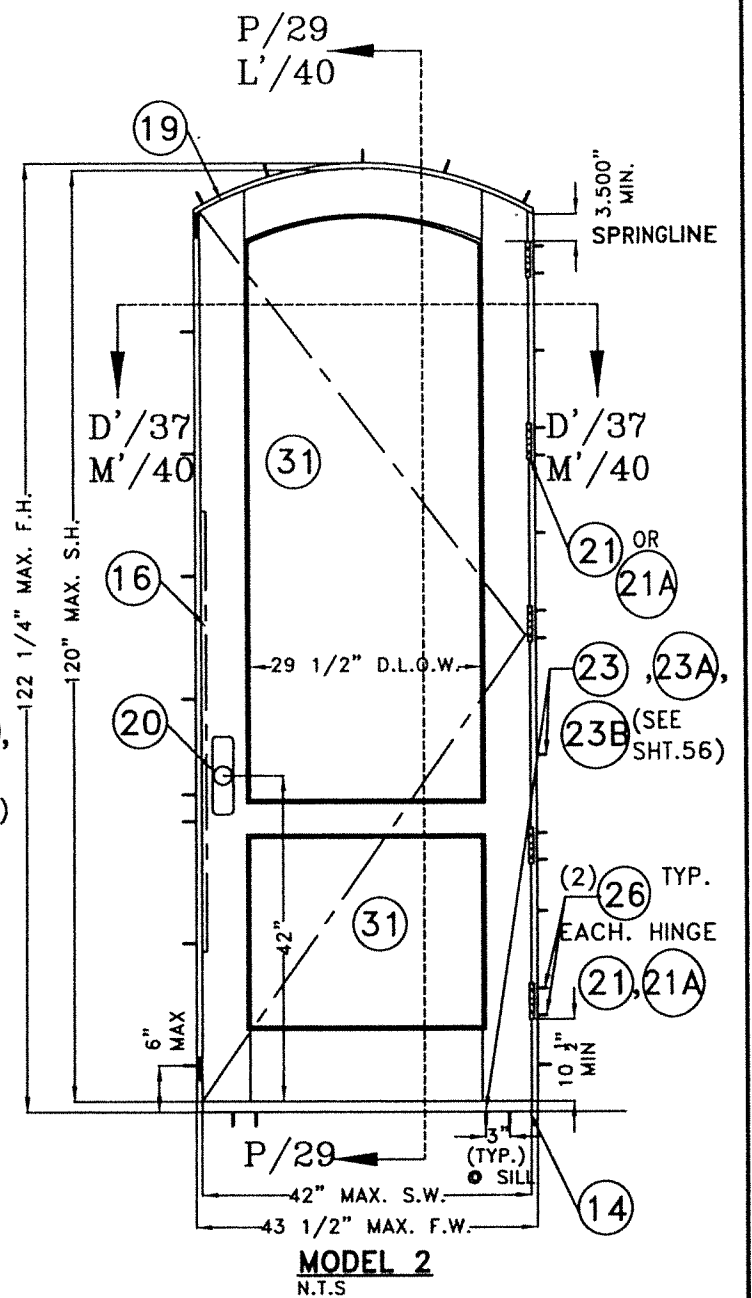
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III				Y.M. DRAWN BY:	
SUN MOUNTAIN CUSTOM DOORS				7/21/2023 DATE:	
140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109				23-125 DRAWING No.	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-



EYEBROW WOOD PANELING IN-SWING SINGLE DOOR



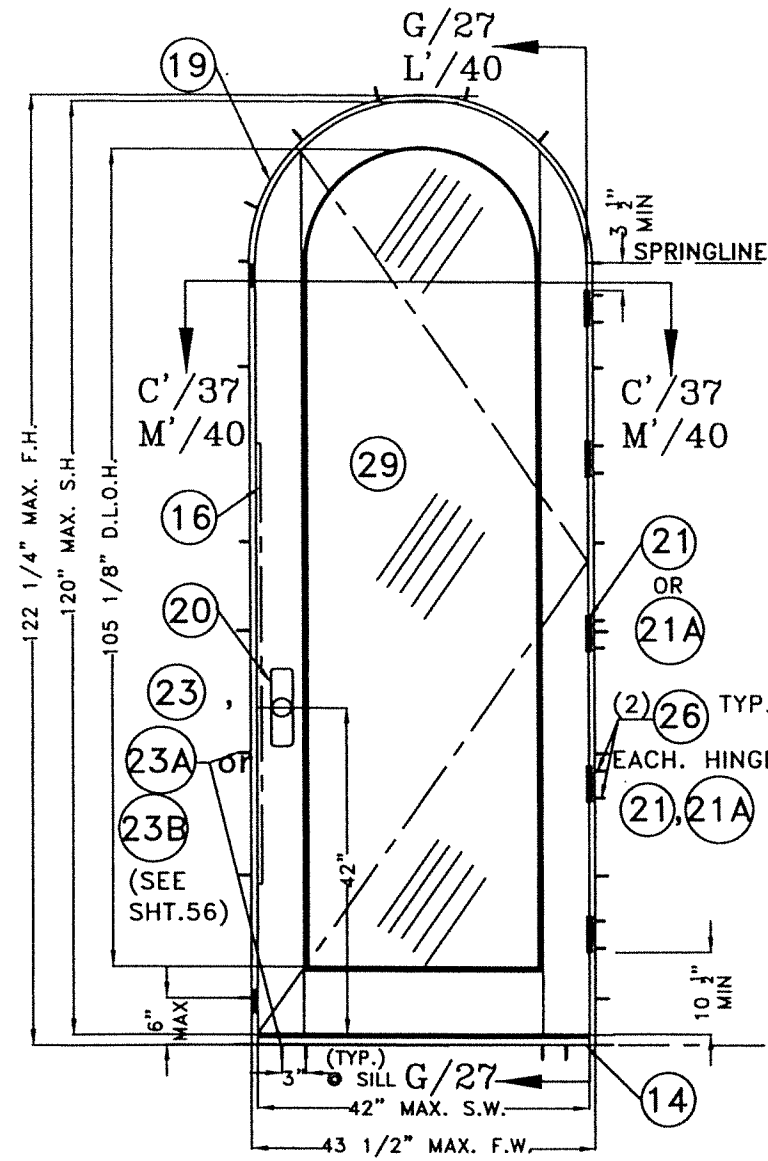
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

[Signature]
2/26/2023

P.E. SEAL/SIGNATURE/DATE

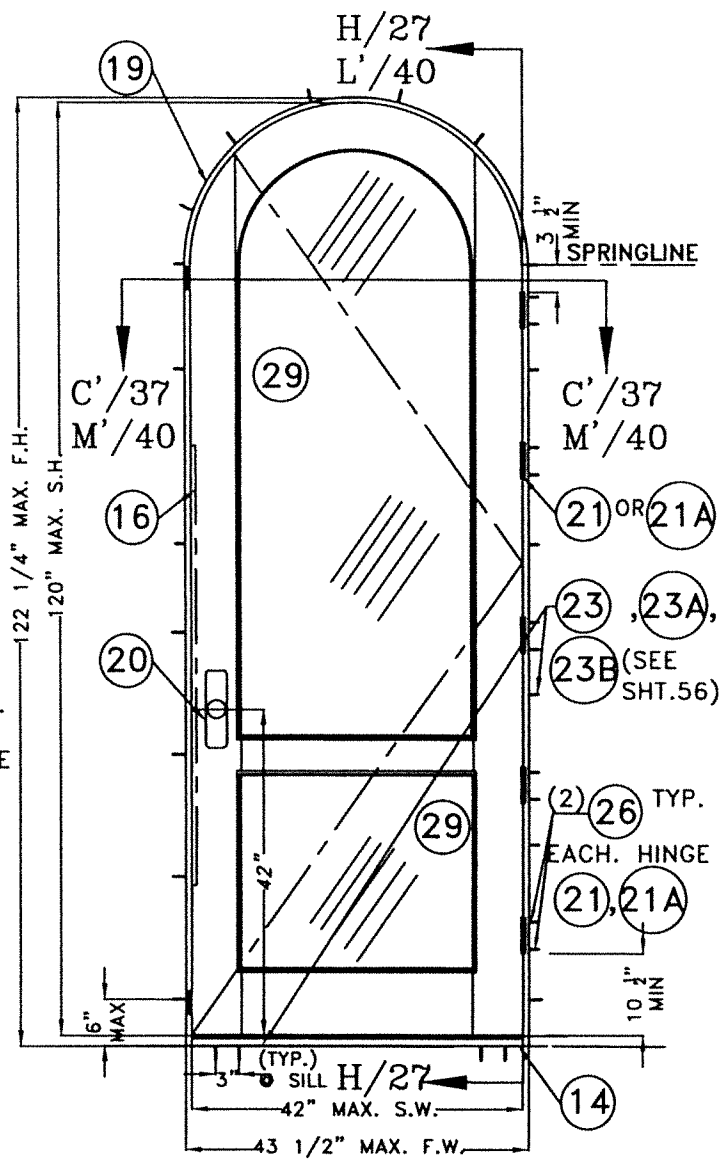
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2			4		

SHEET 21 OF 57

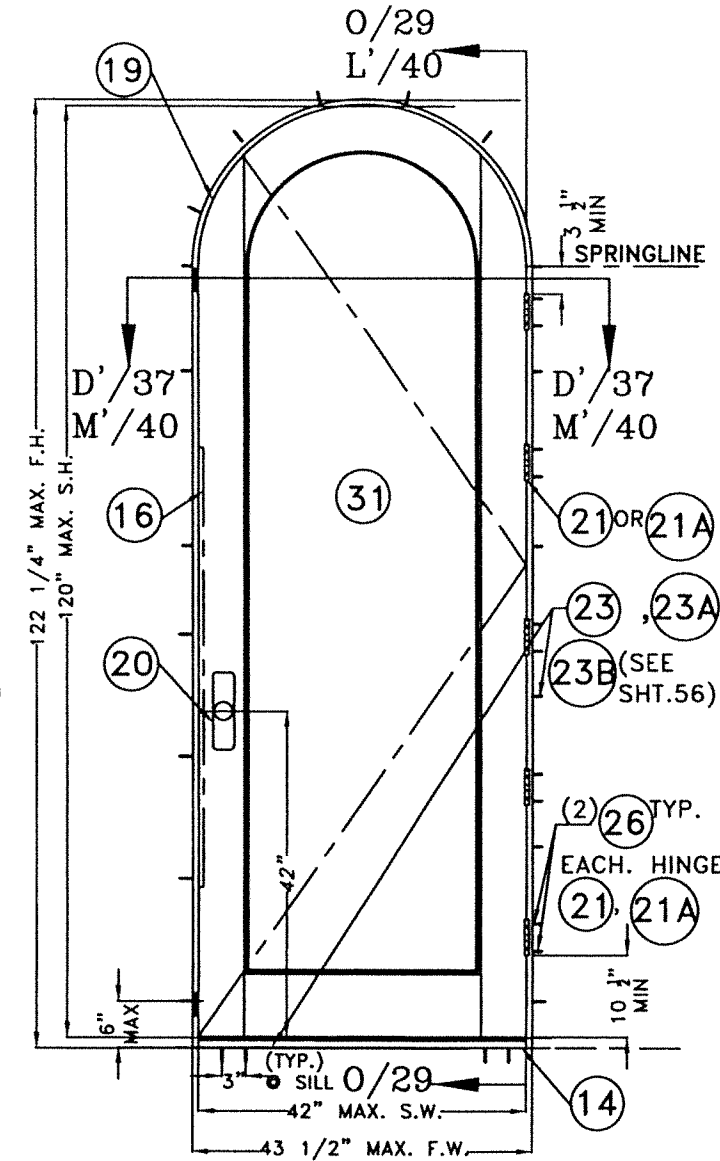


MODEL 1
N.T.S

FULL ARCHED GLAZED IN-SWING SINGLE DOOR

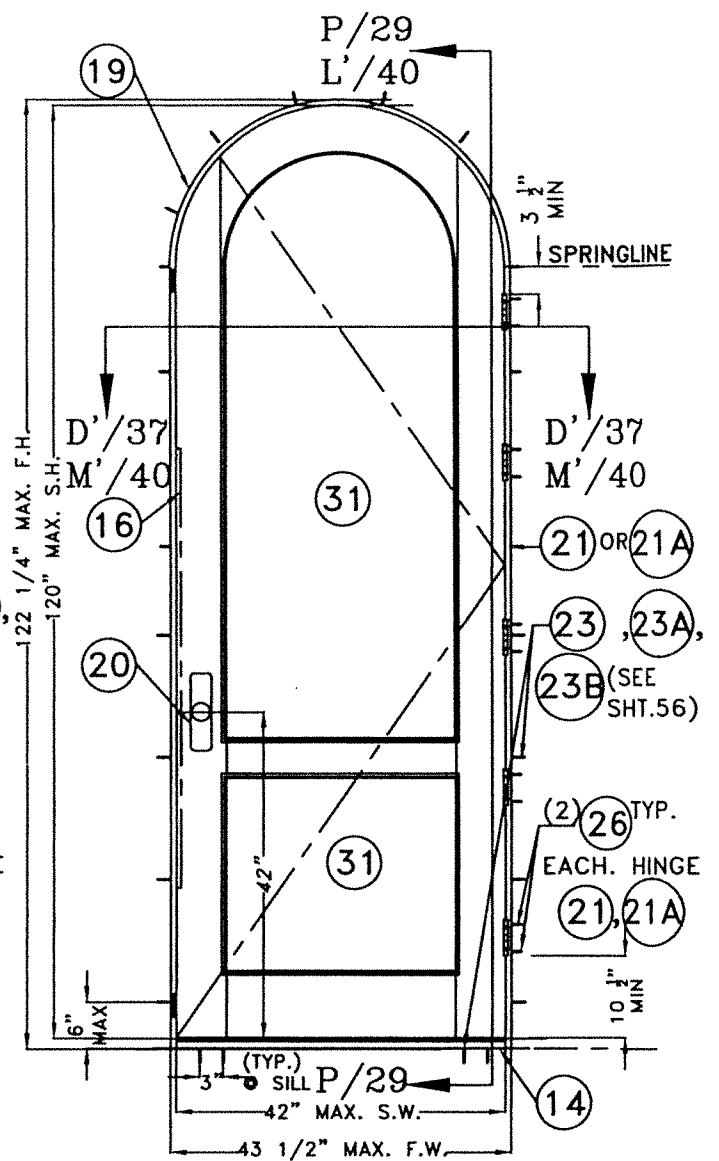


MODEL 2
N.T.S



MODEL 1
N.T.S

FULL ARCHED WOOD PANELING IN-SWING SINGLE DOOR



MODEL 2
N.T.S

PREFIX LEGEND:

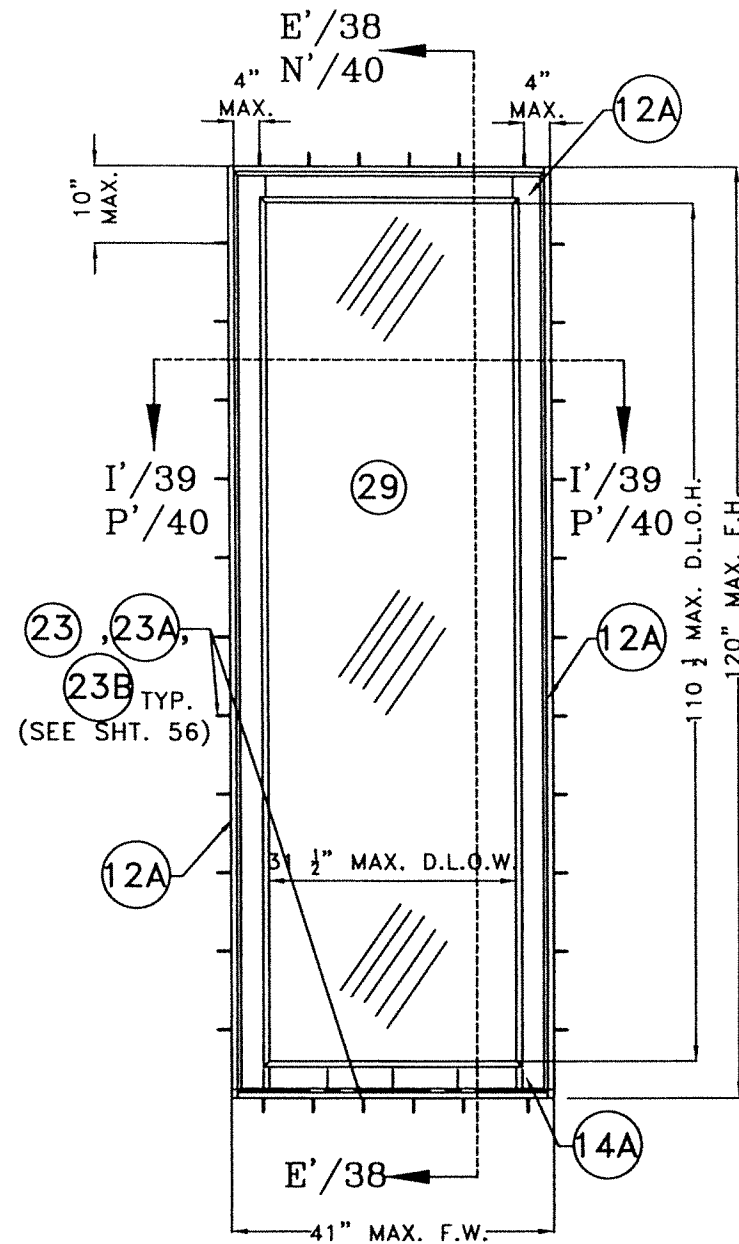
- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT

**EXTERIOR ELEVATION
FULL ARCHED SINGLE DOOR
CASE I**

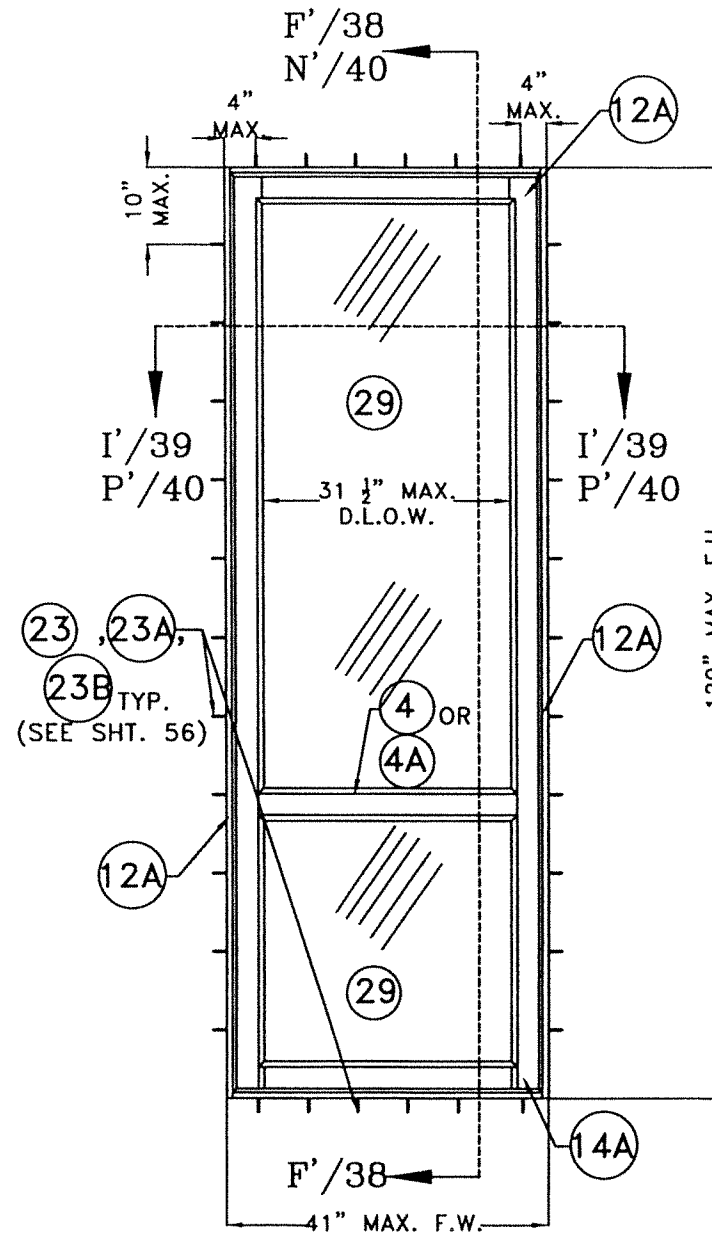
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
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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			SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

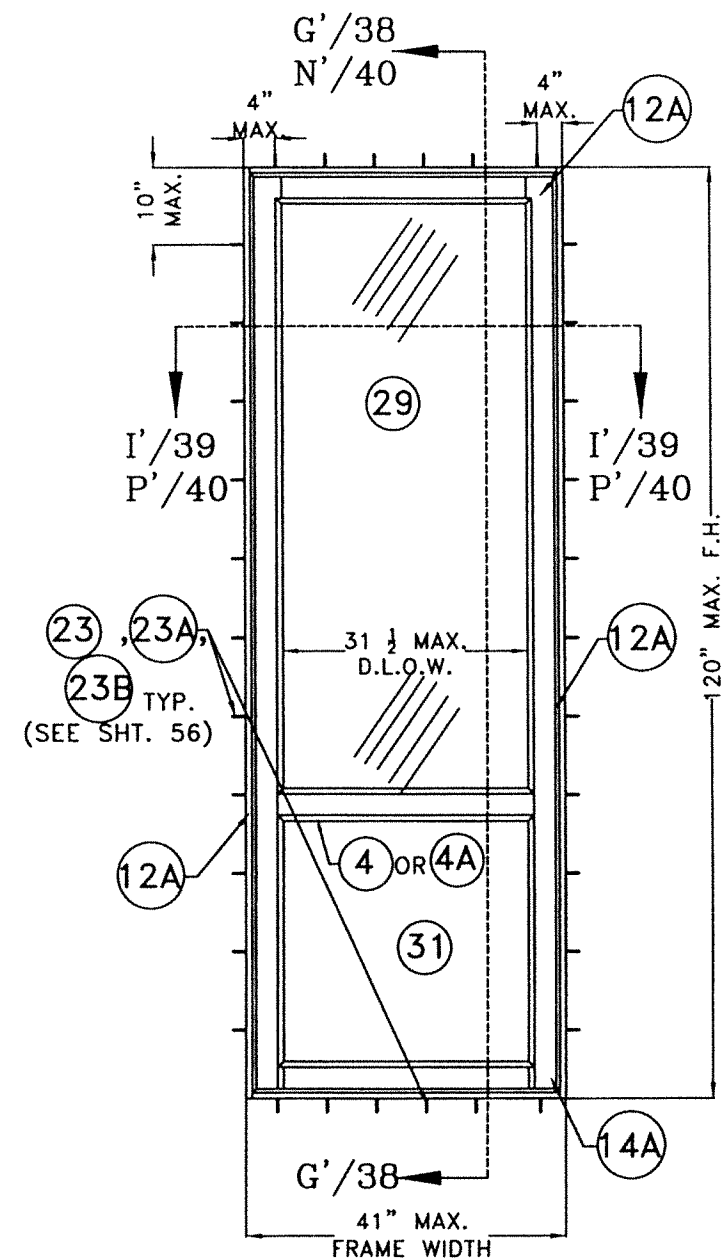
Y.M.
DRAWN BY:
7/21/2023
DATE:
23-125
DRAWING No.
SHEET 22 OF 57



TYPICAL SIDELITE ELEVATION
N.T.S.



TYPICAL SIDELITE ELEVATION (GLAZED)
N.T.S.



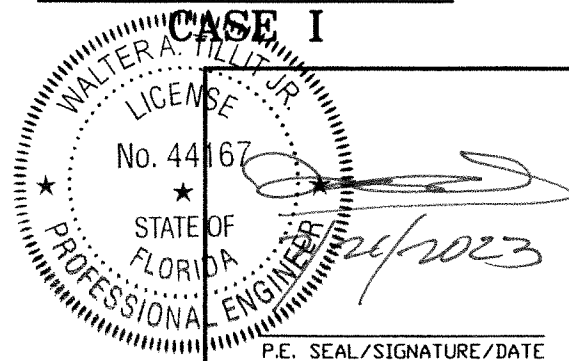
TYPICAL SIDELITE ELEVATION GLAZED & WOOD PANELING
N.T.S.

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT

**EXTERIOR ELEVATION
TYPICAL SIDELITE**

CASE I



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

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

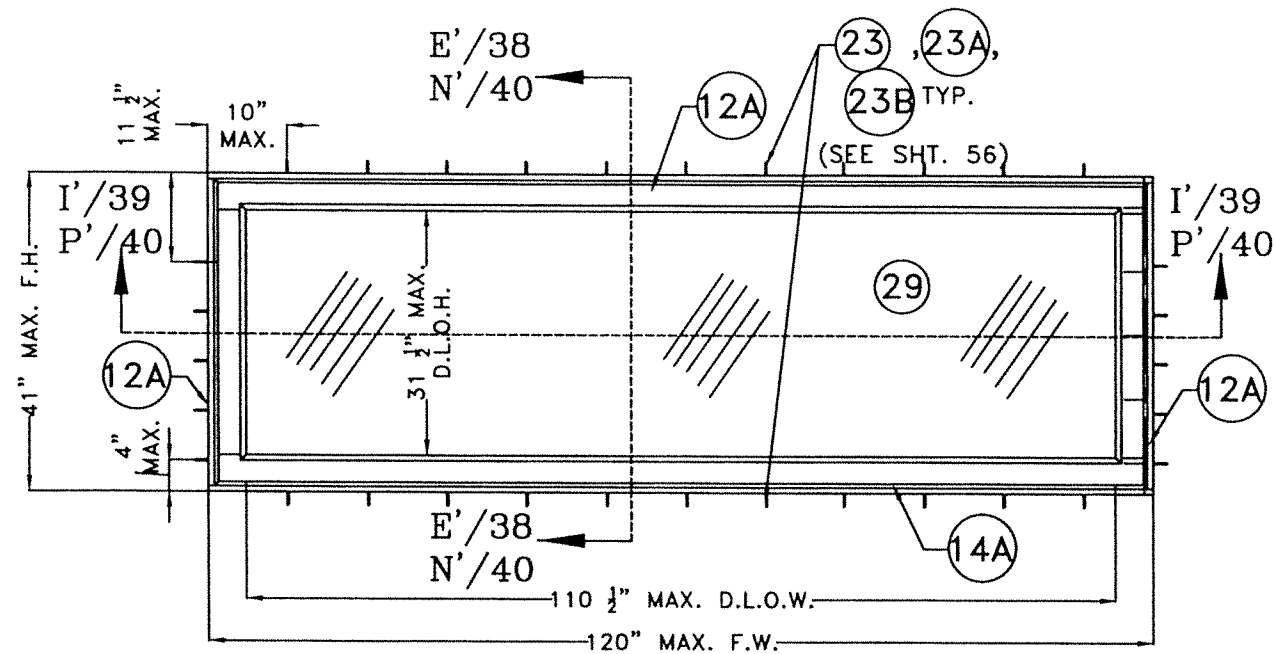
Y.M.
DRAWN BY:

7/21/2023
DATE:

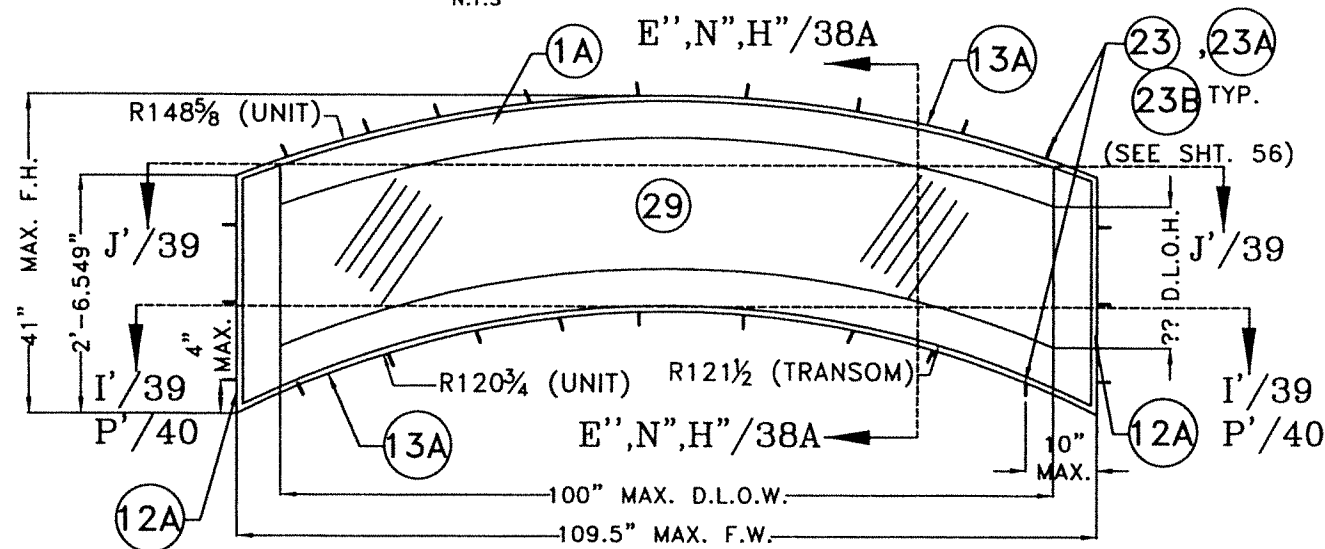
23-125
DRAWING No.

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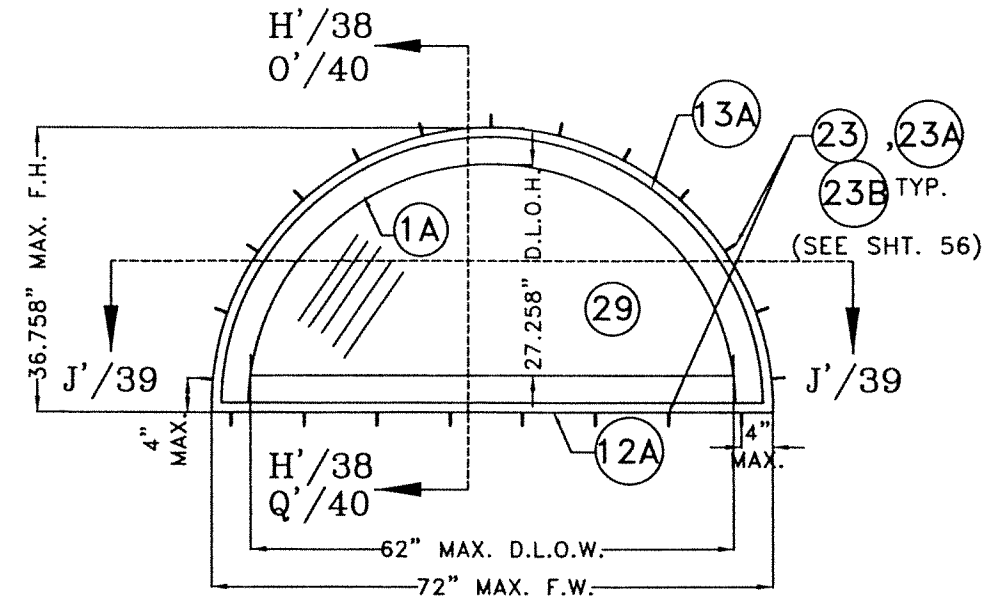
SHEET 23 OF 57



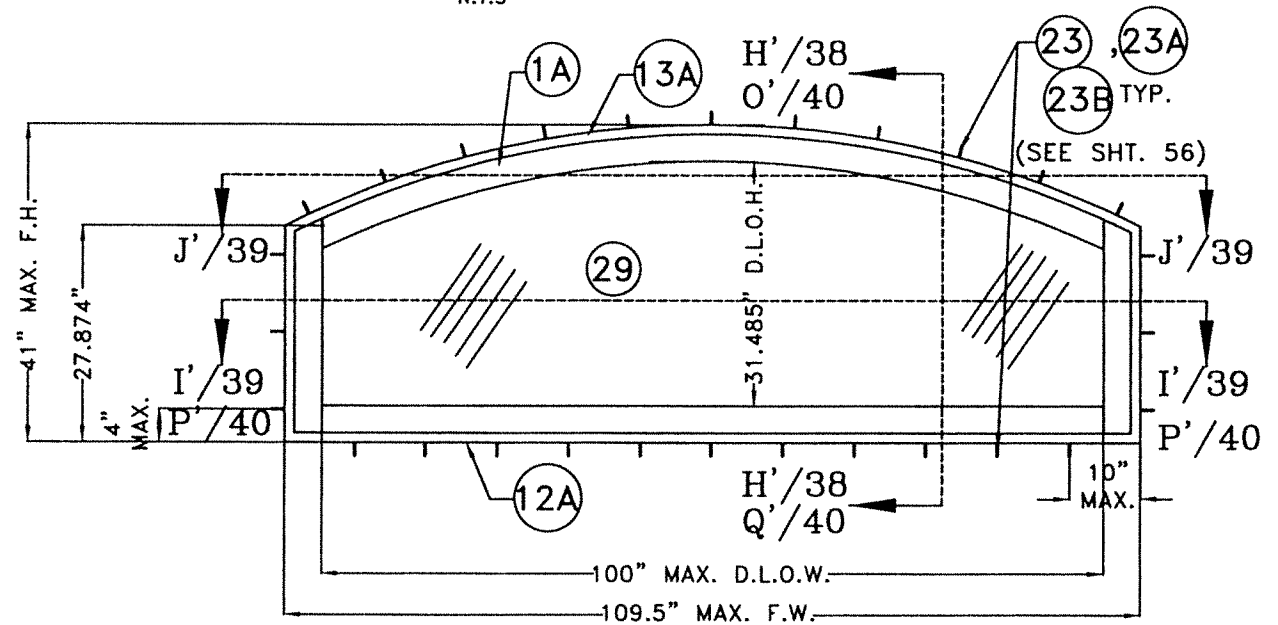
TRANSOM (REGULAR SHAPE)
N.T.S.



TRANSOM (DOUBLE EYEBROW SHAPE)
N.T.S.



TRANSOM (FULL ARCH SHAPE)
N.T.S.

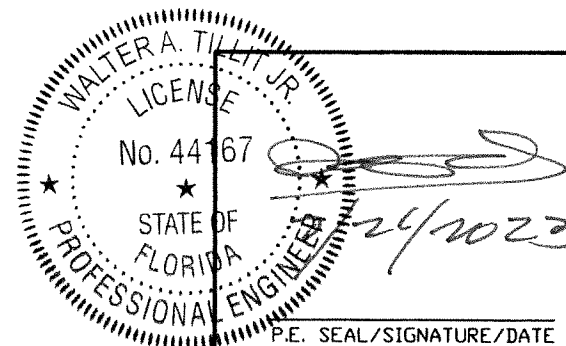


TRANSOM (EYEBROW SHAPE)
N.T.S.

**EXTERIOR ELEVATION
TRANSOM DIFFERENT SHAPES
CASE I**

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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

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Phone : (305)871-1530 • Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

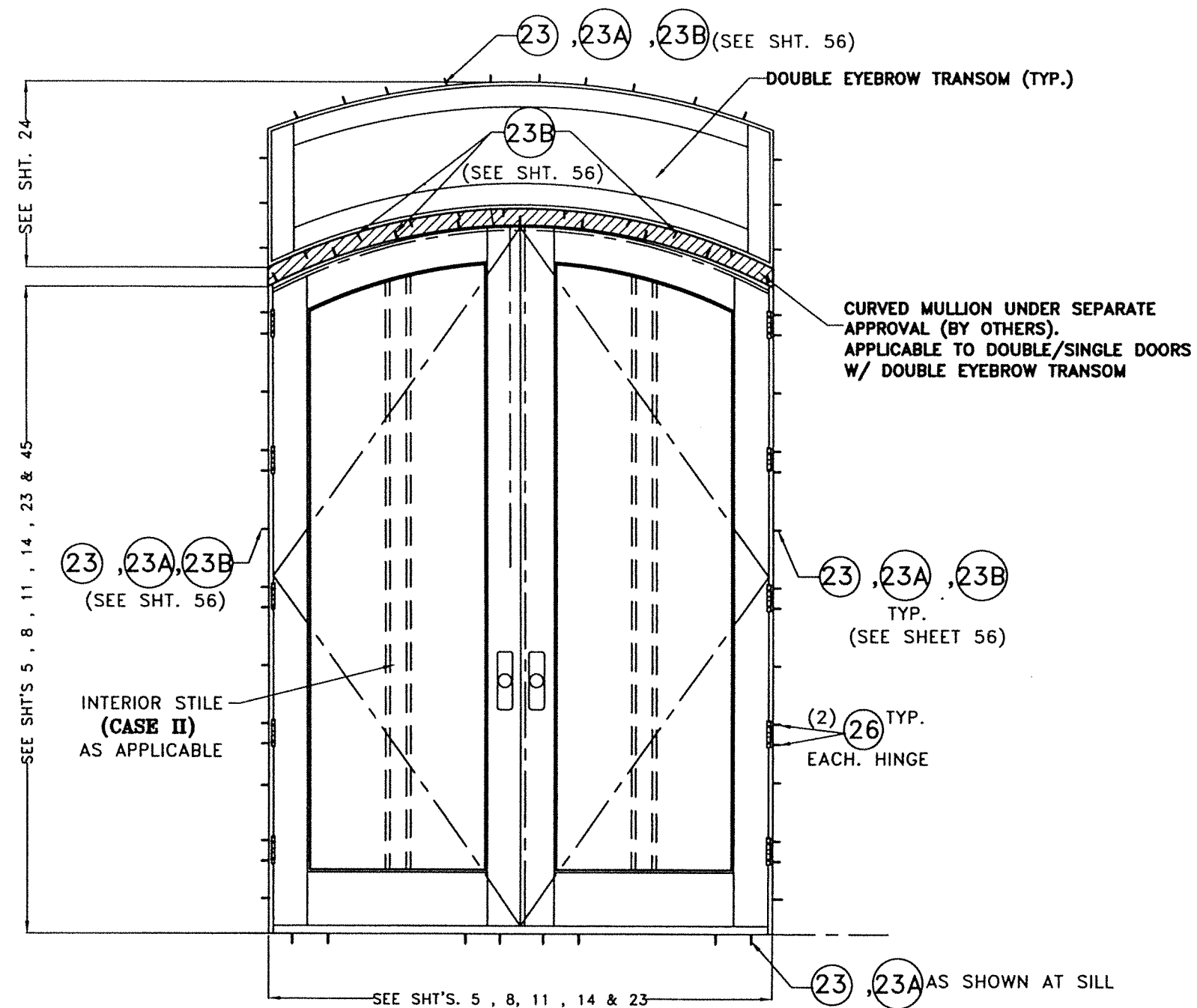
7/21/2023
DATE:

23-125

DRAWING No.

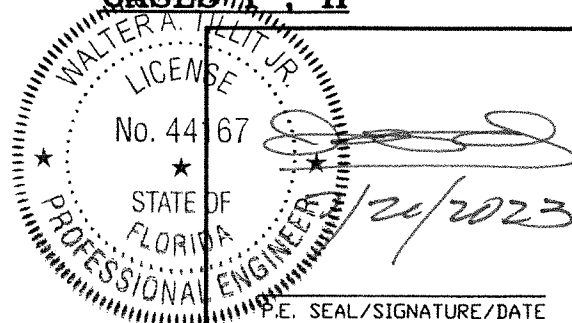
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-

SHEET 24 OF 57



**DOUBLE OR SINGLE DOOR GLAZED OR WITH WOOD PANELING
WITH DOUBLE EYEBROW TRANSOM**
N.T.S

**EXTERIOR ELEVATION
CASES I, II**



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**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

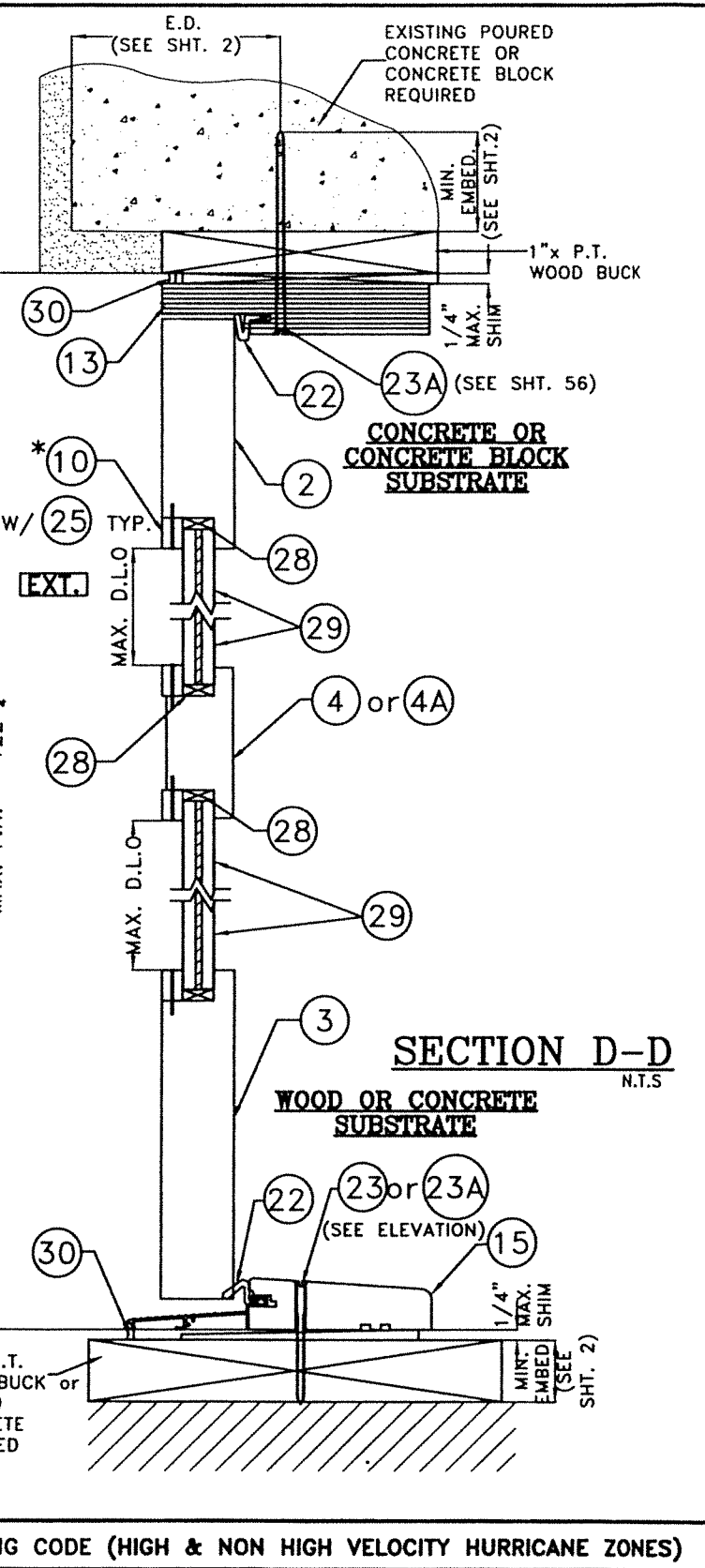
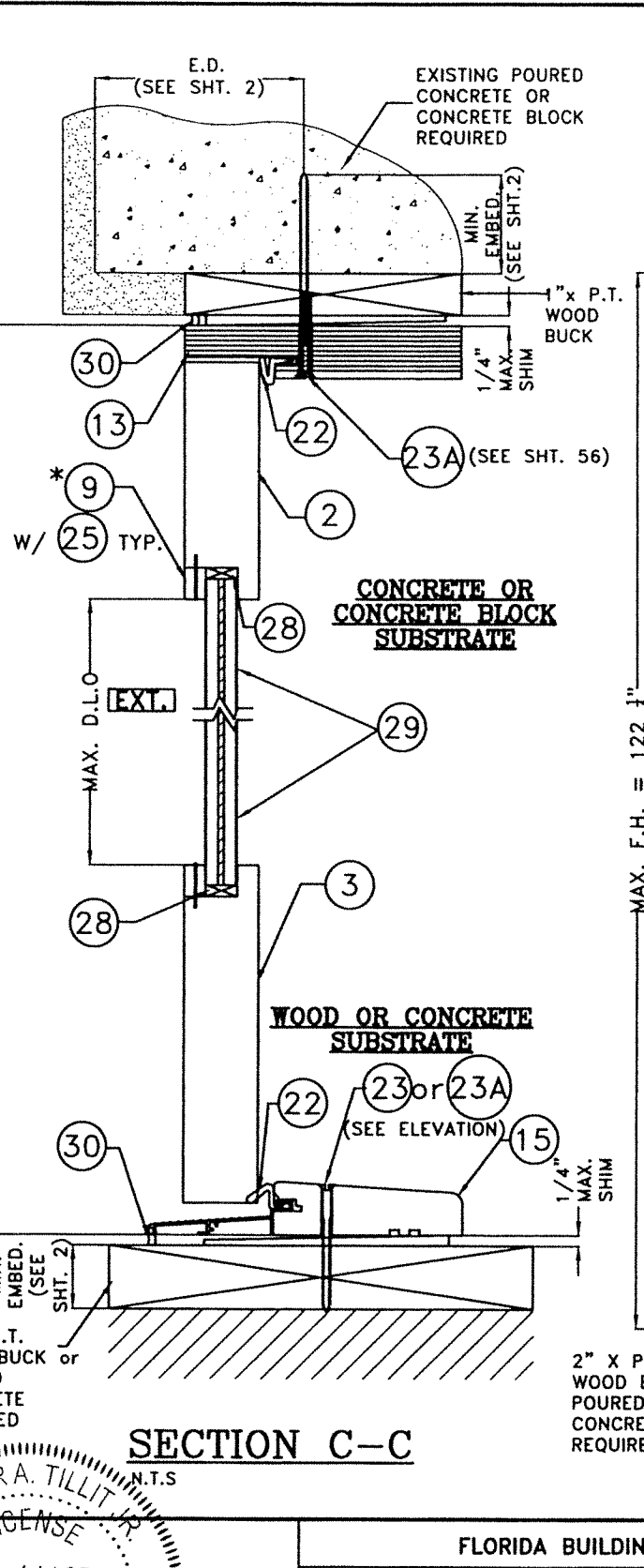
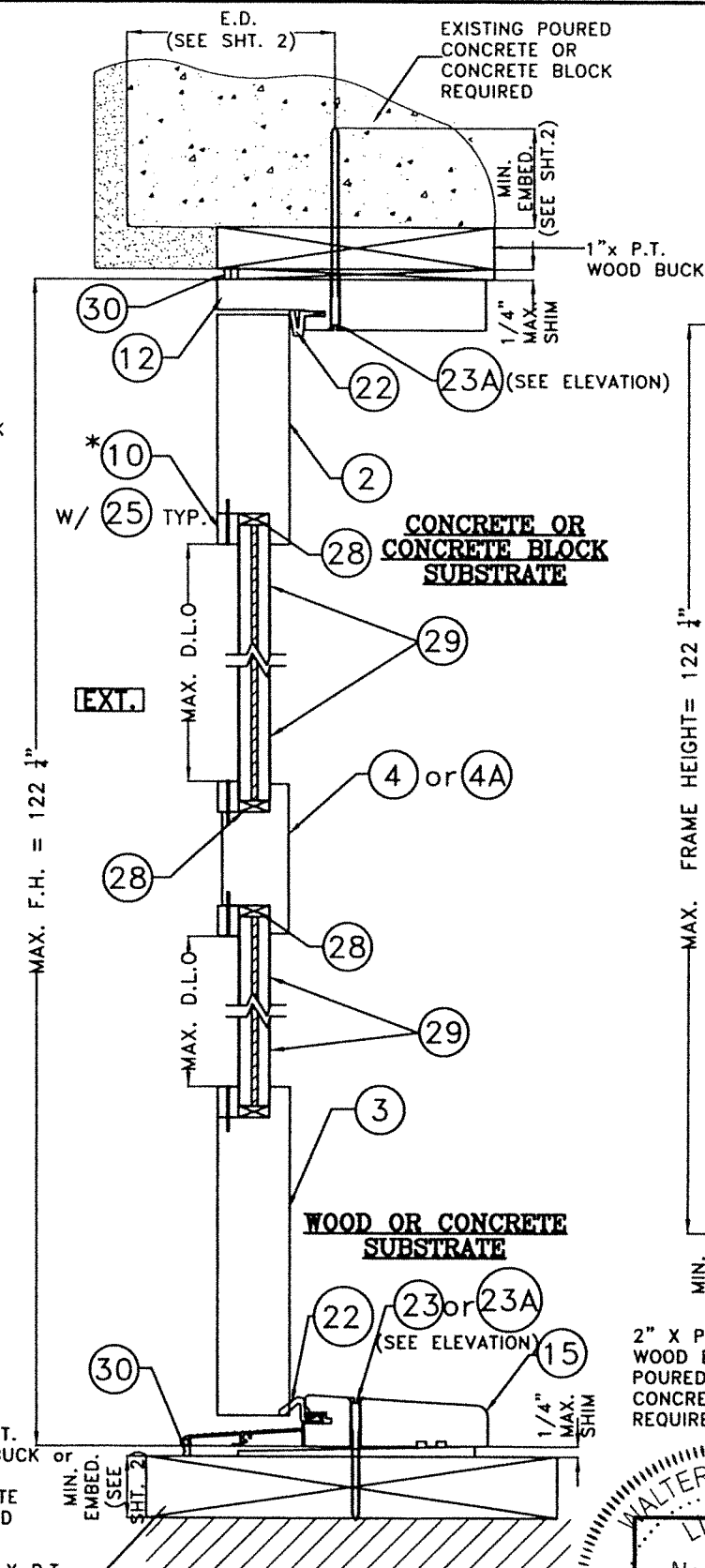
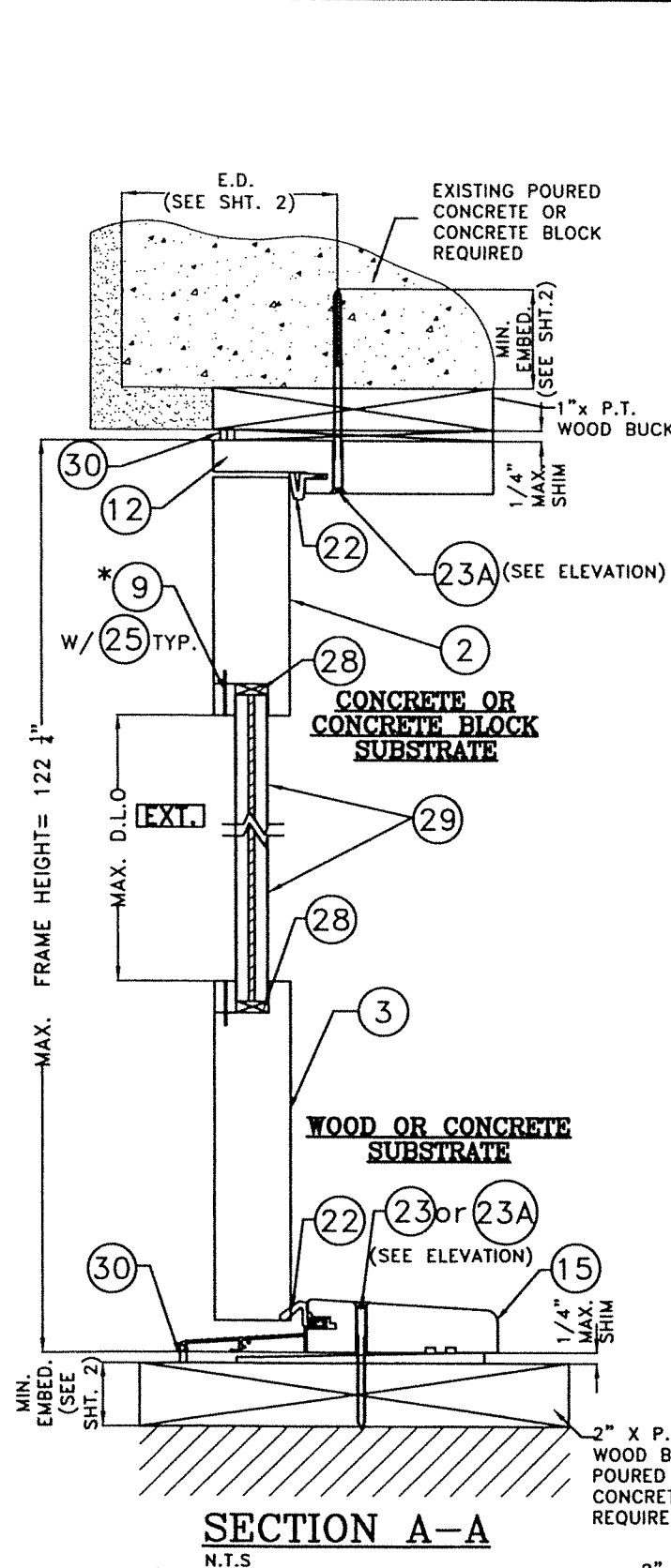
7/21/2023
DATE:

23-125

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SHEET 25A OF 57

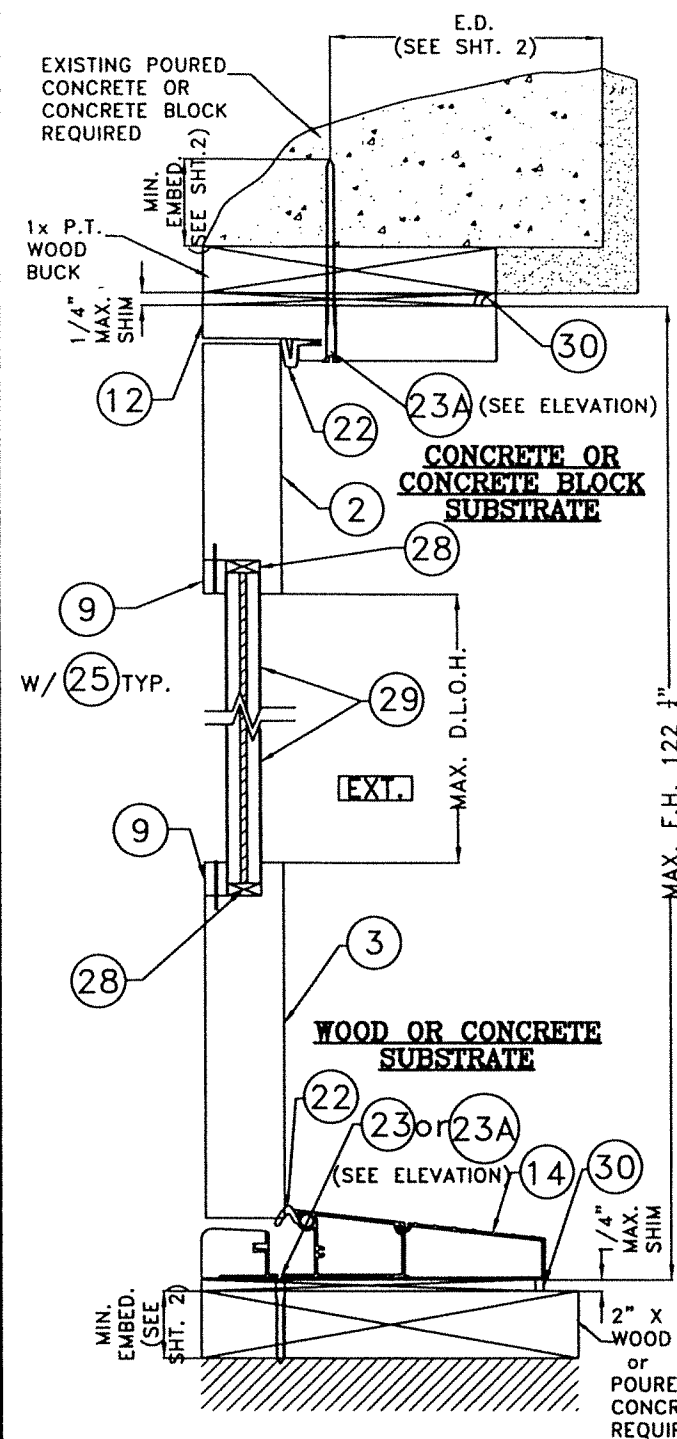


*COMPONENTS ⑨ & ⑩ MAY ALSO BE INSTALLED AT INTERIOR SIDE OF DOOR, PROVIDED RAILS ②③④ & ④A ARE ALSO INSTALLED REVERSED TO ALLOW FOR THIS OPTIONAL INSTALLATION.

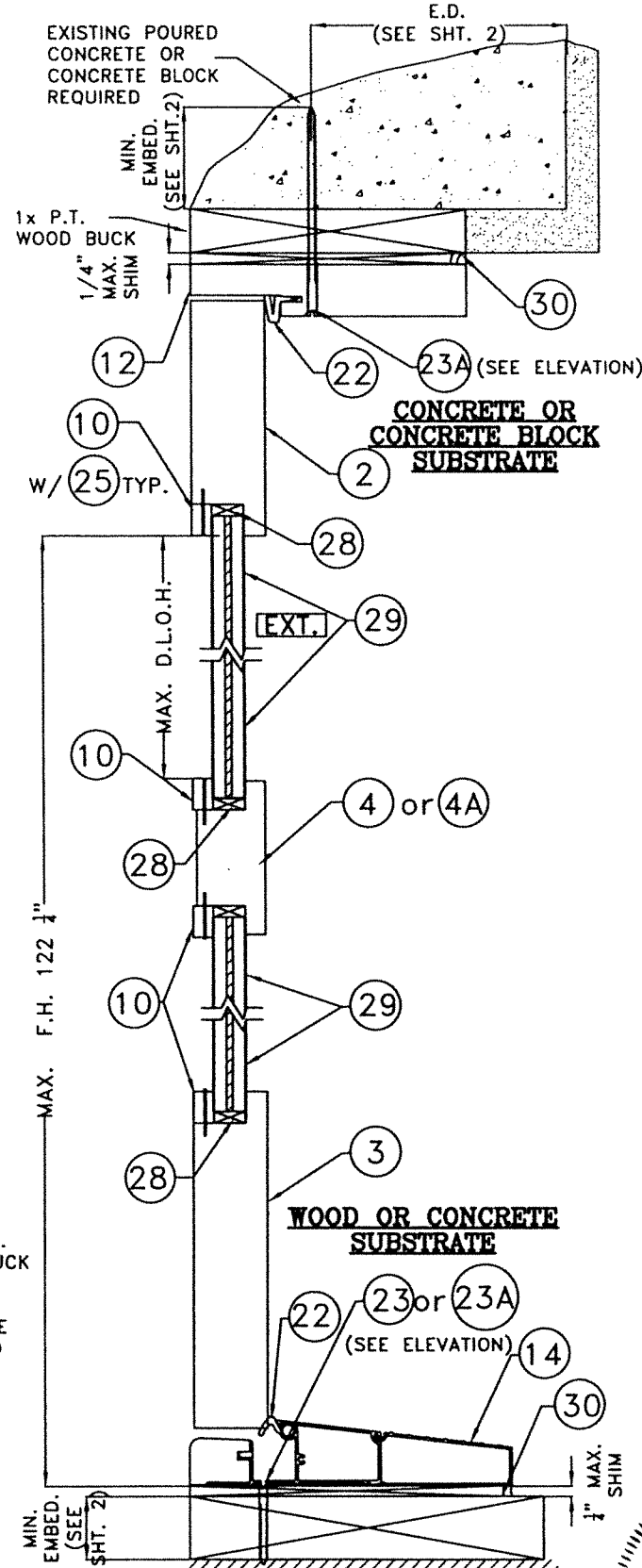
VERTICAL SECTIONS (OUT SWING GLAZED DOORS) CASE I

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

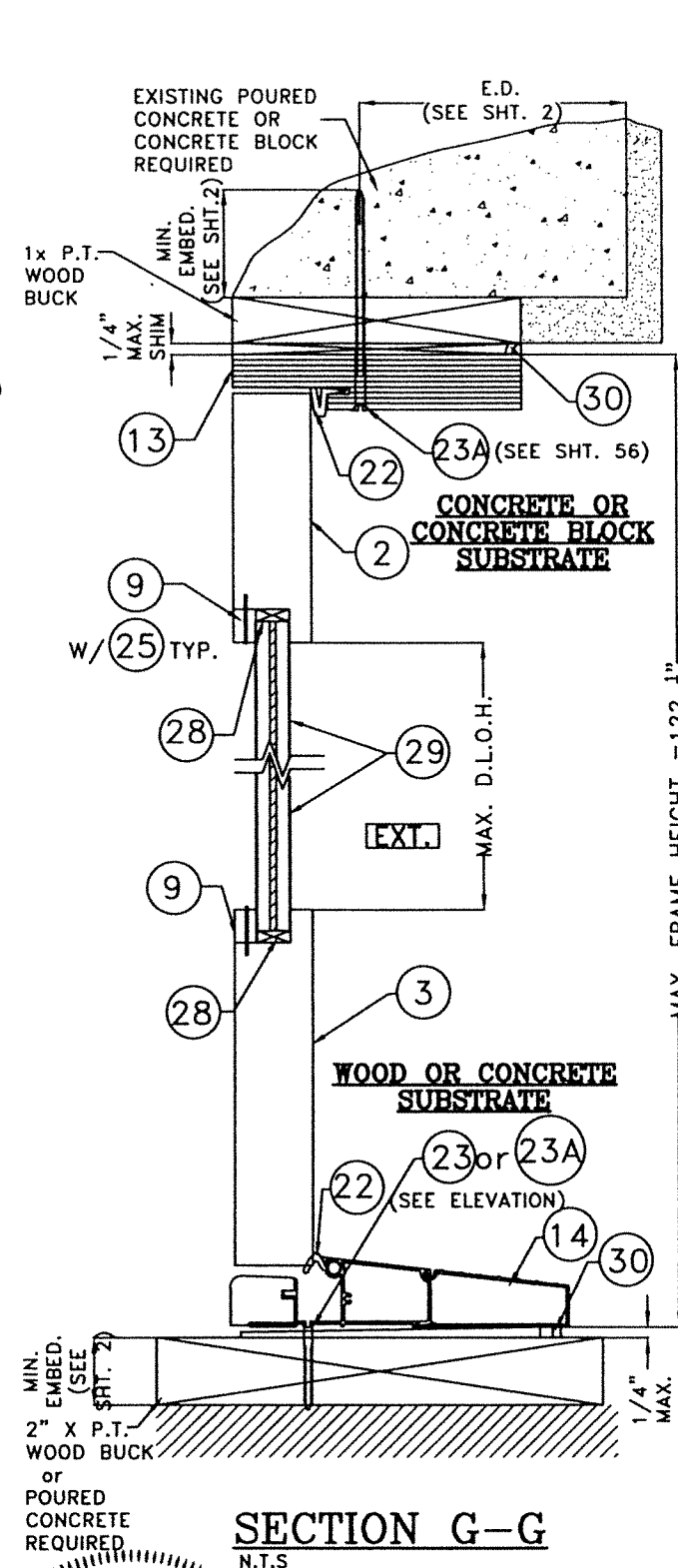
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
© 2023 TILTECO, INC.				Y.M. DRAWN BY:	
 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305) 871-1530 • Fax: (305) 871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167				SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109	
OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III		7/21/2023 DATE:		23-125 DRAWING No.	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 26 OF 57					



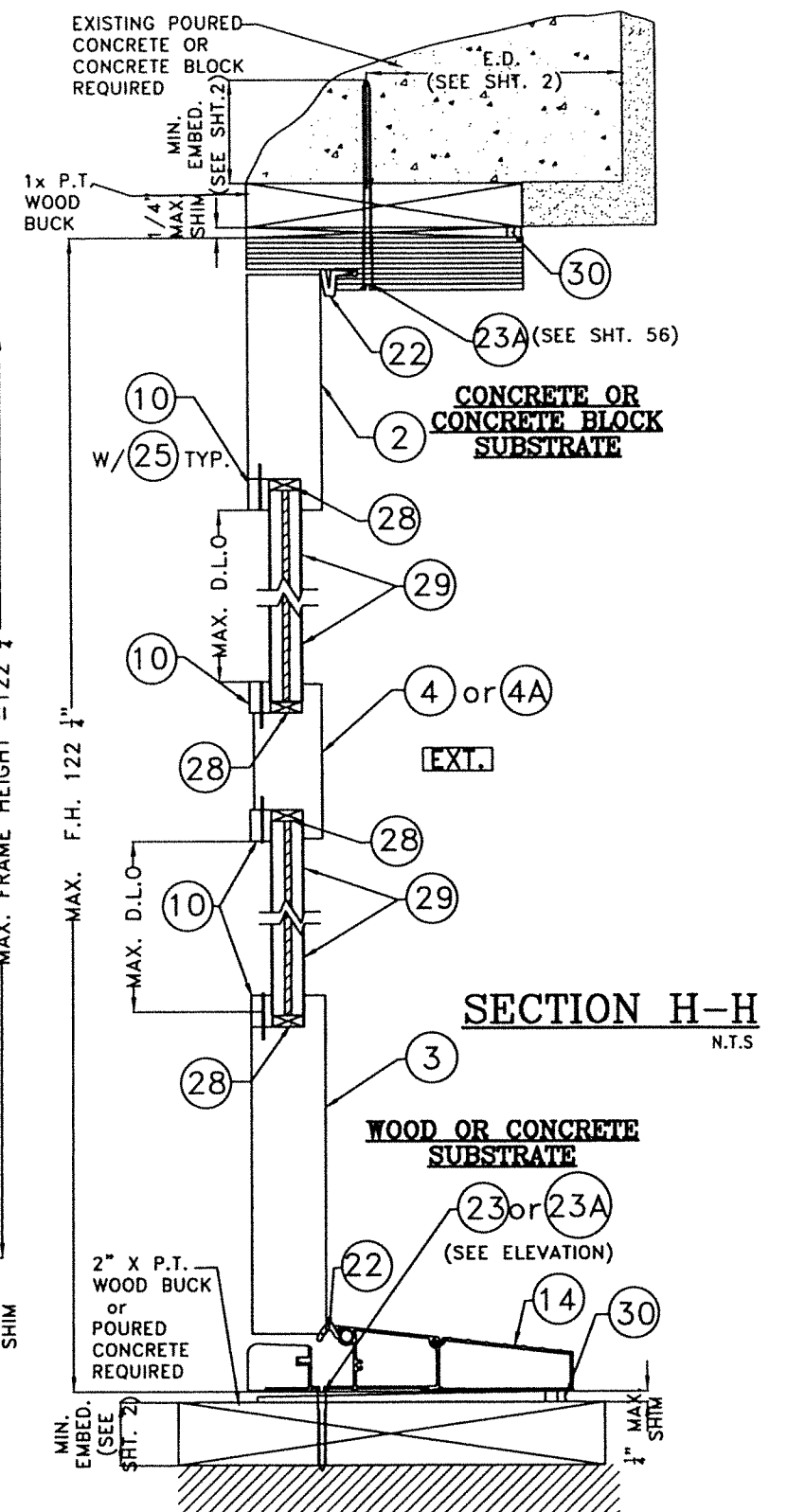
SECTION E-E
N.T.S



SECTION F-F
N.T.S

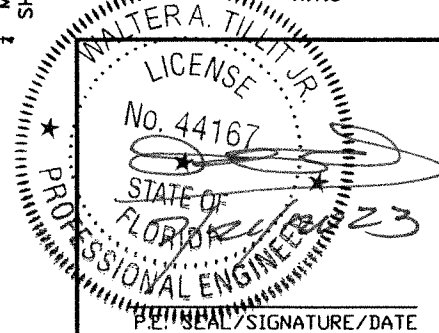


SECTION G-G
N.T.S



SECTION H-H
N.T.S

VERTICAL SECTIONS (IN SWING GLAZED DOORS)
CASE I



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CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

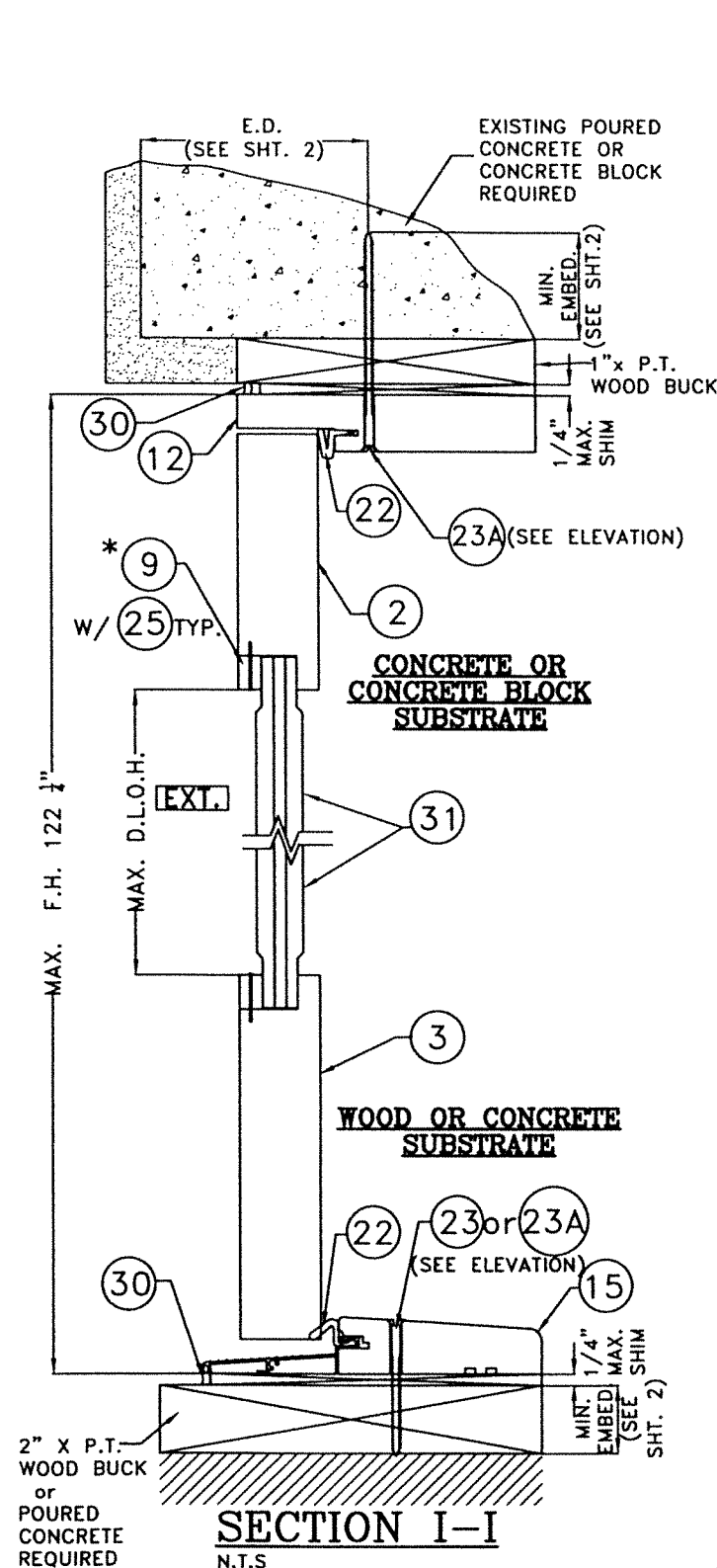
Y.M.
DRAWN BY:

7/21/2023
DATE:

23-125
DRAWING No.

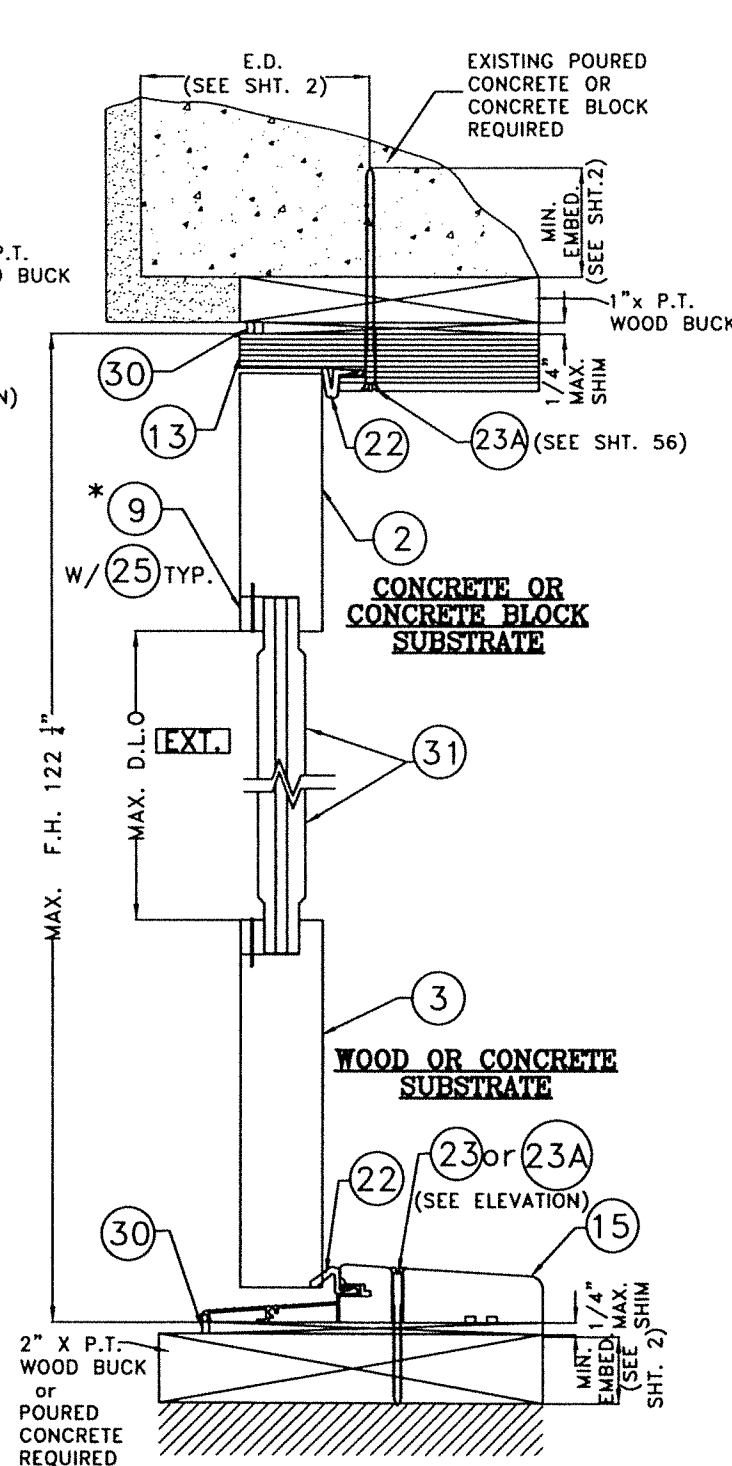
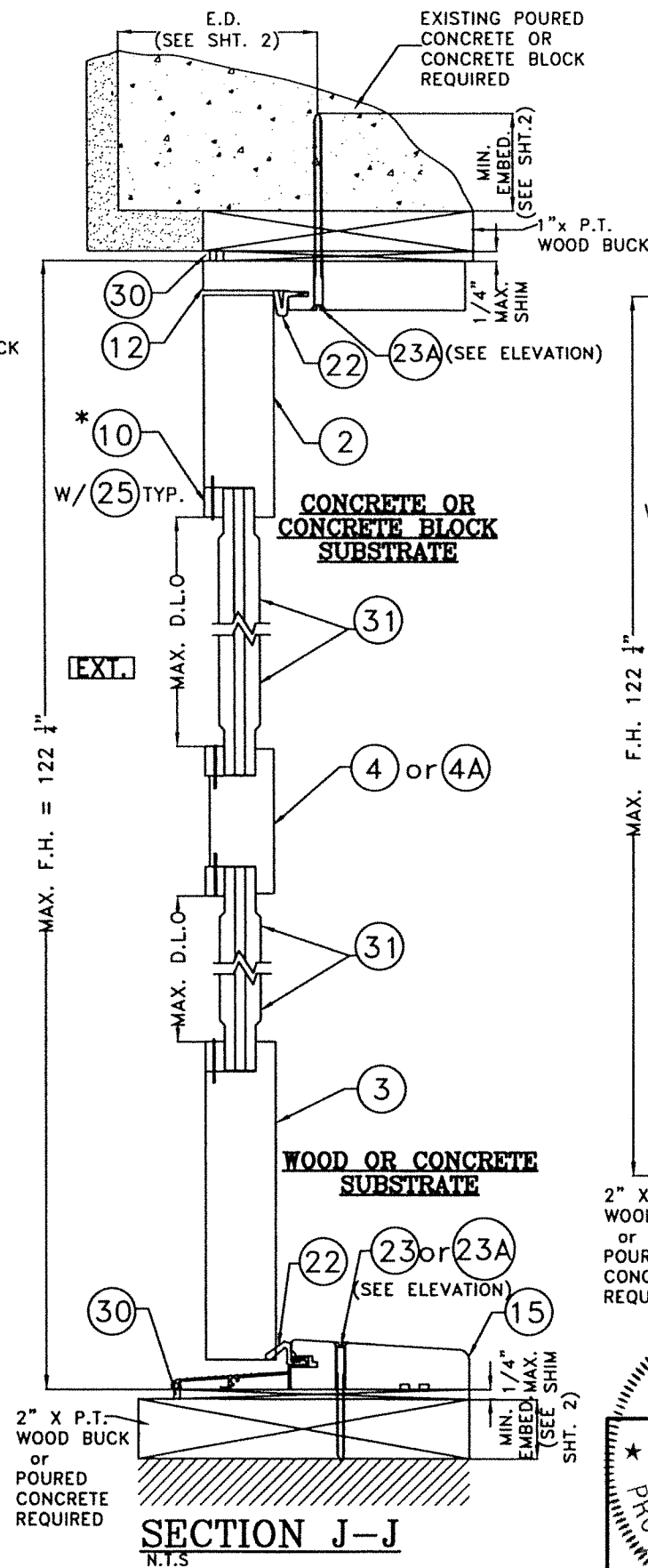
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SHEET 27 OF 57

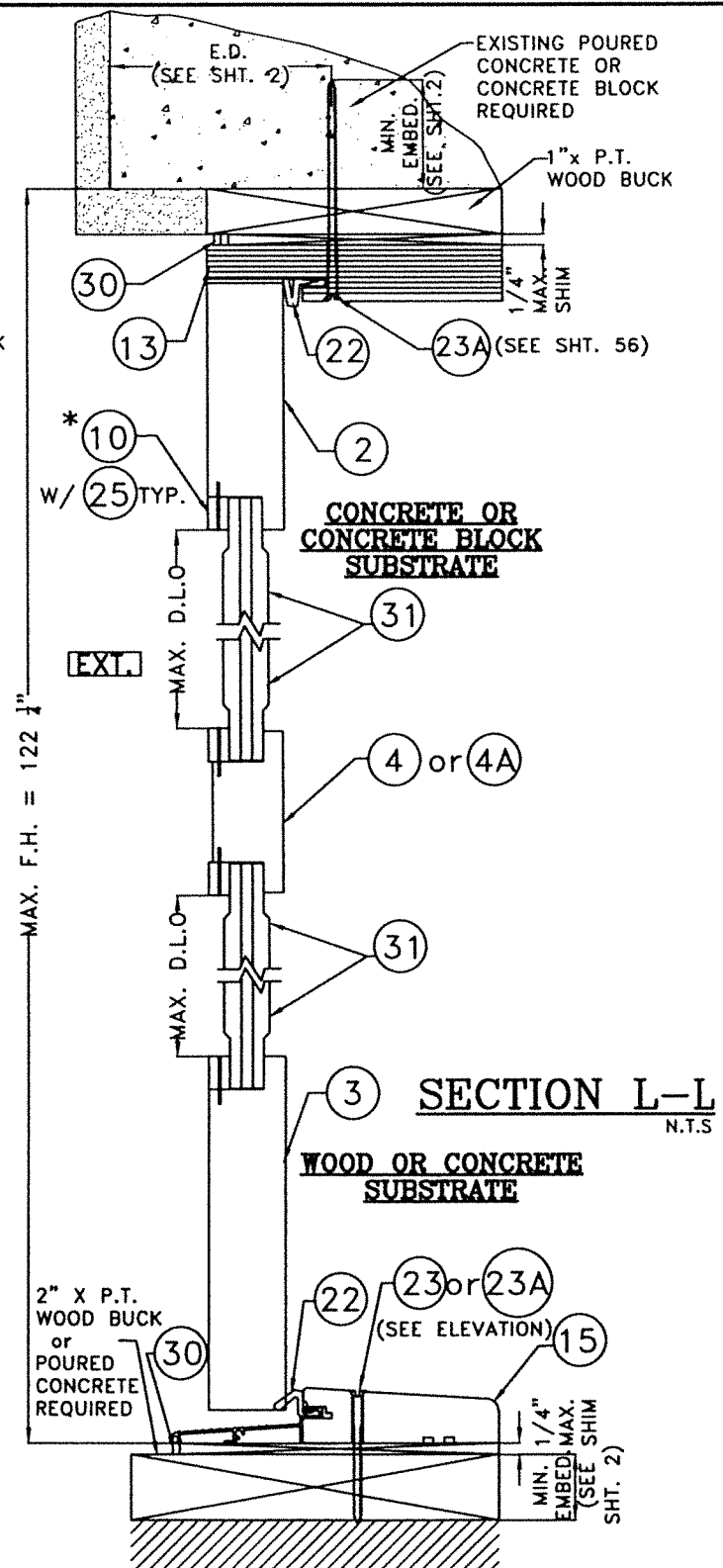


*COMPONENTS ⑨ & ⑩ MAY ALSO BE INSTALLED AT INTERIOR SIDE OF DOOR, PROVIDED RAILS ②③④ & ④A ARE ALSO INSTALLED REVERSED TO ALLOW FOR THIS OPTIONAL INSTALLATION.

VERTICAL SECTIONS (OUT SWING WOOD PANELING DOORS) CASE I



WALTER A. TILLIT, JR.
LICENSED PROFESSIONAL ENGINEER
No. 44167
STATE OF FLORIDA
P.E. SEAL/SIGNATURE/DATE



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Phone: (305) 871-1530 Fax: (305) 871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

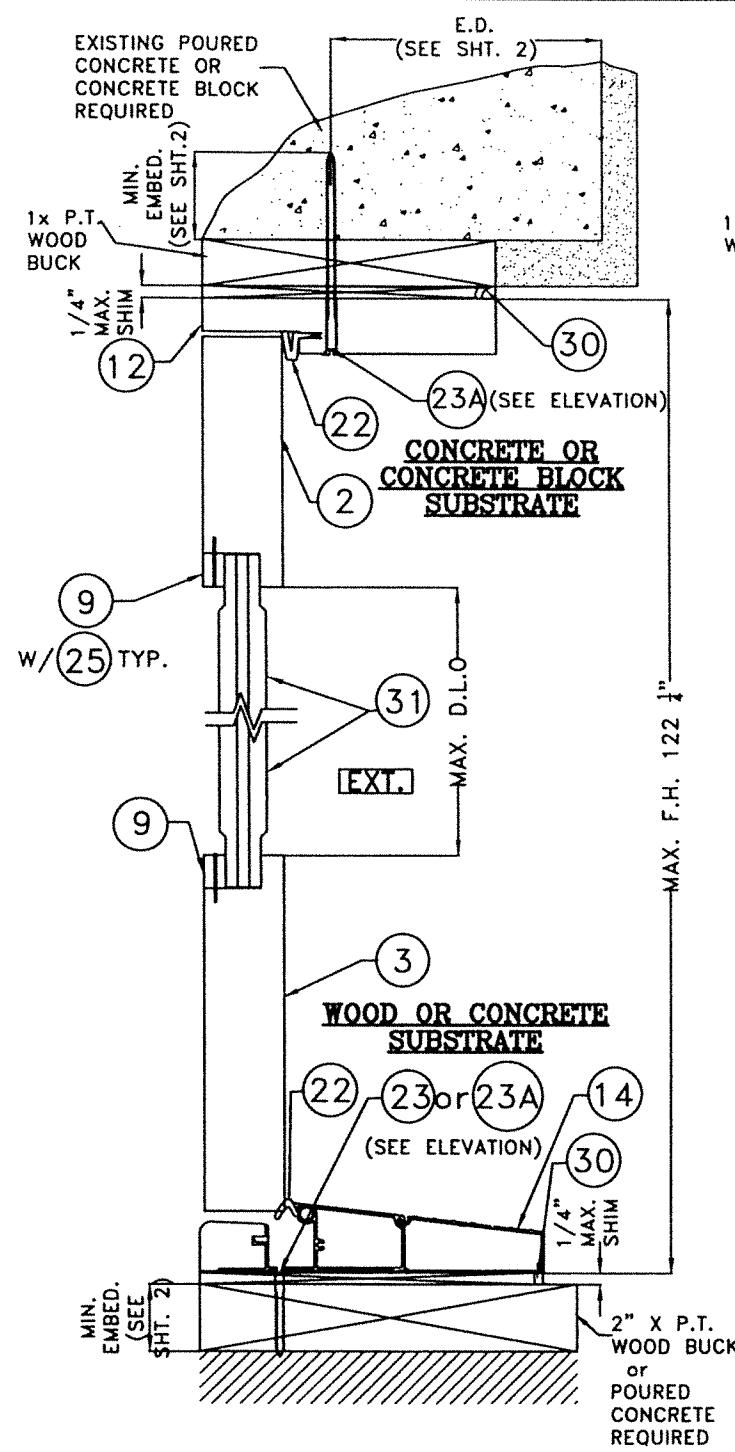
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DRAWN BY:

7/21/2023
DATE:

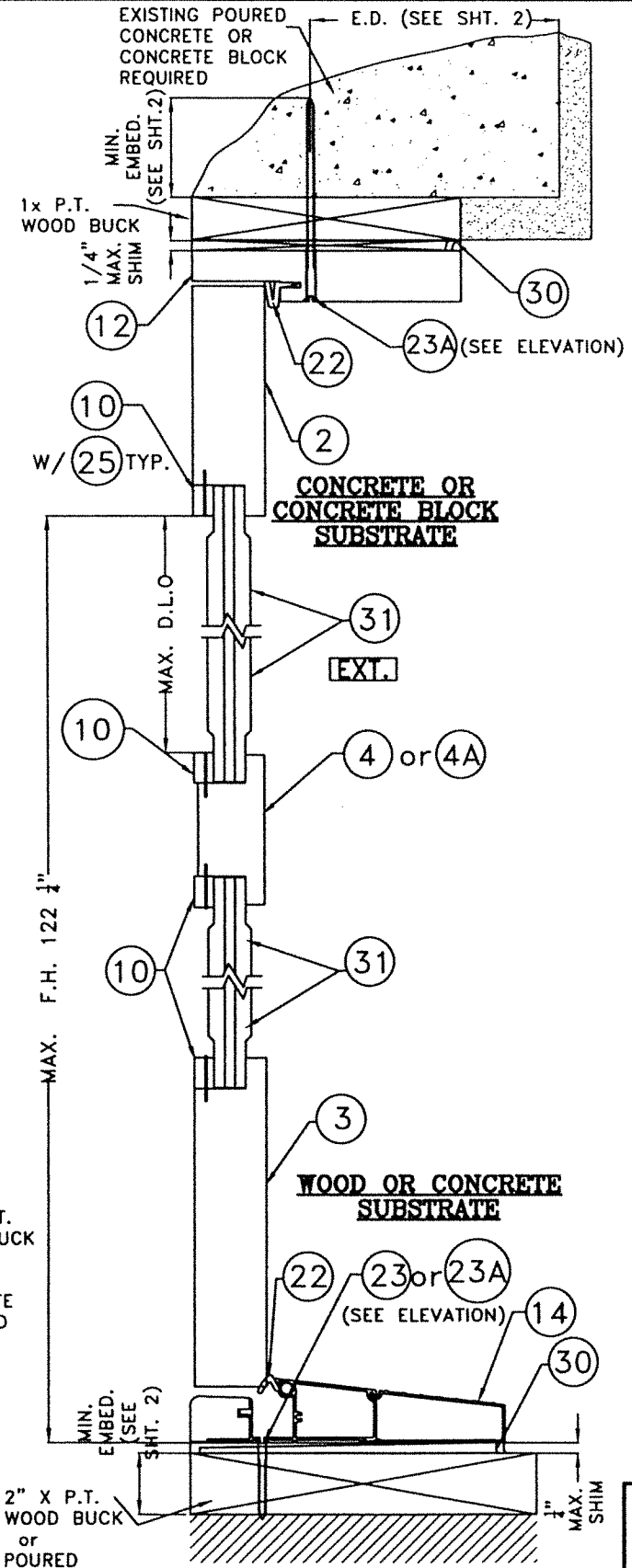
23-125
DRAWING No.

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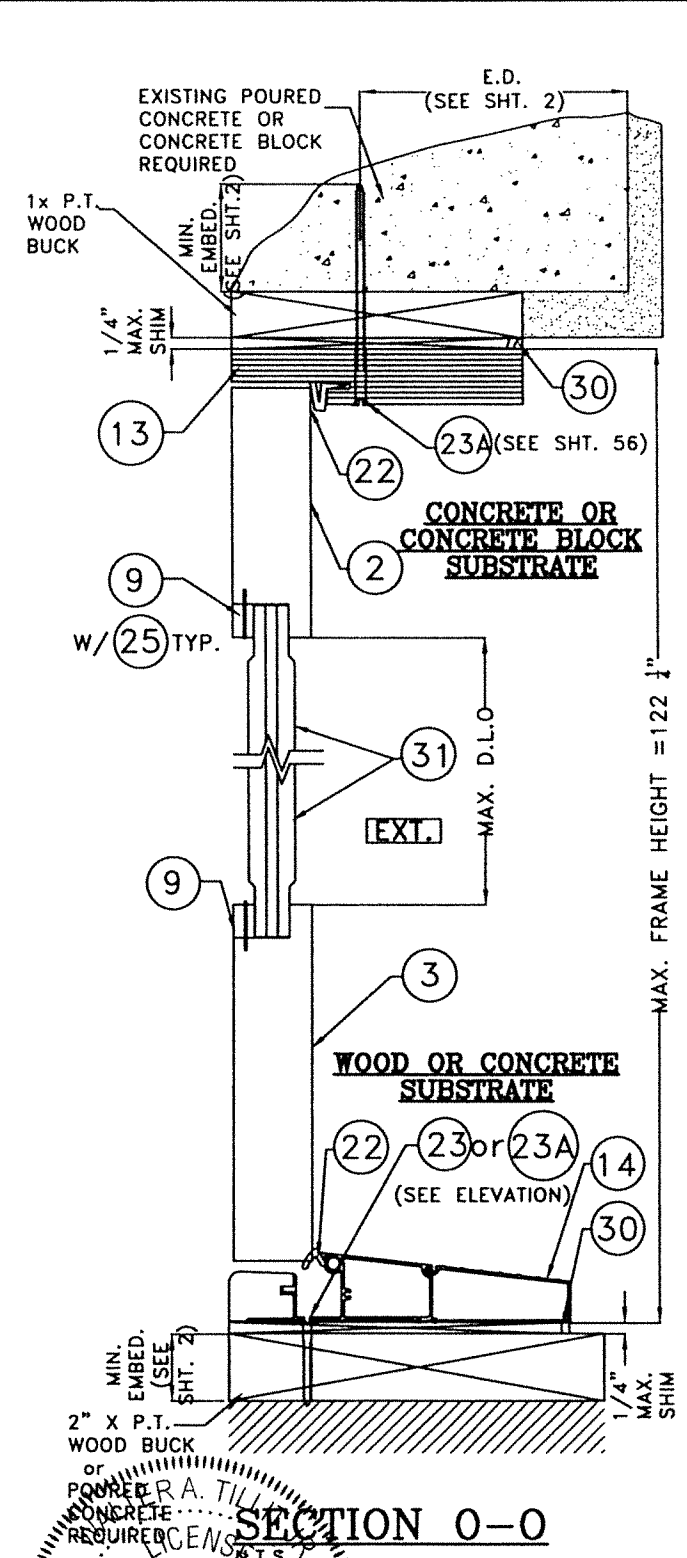
SHEET 28 OF 57



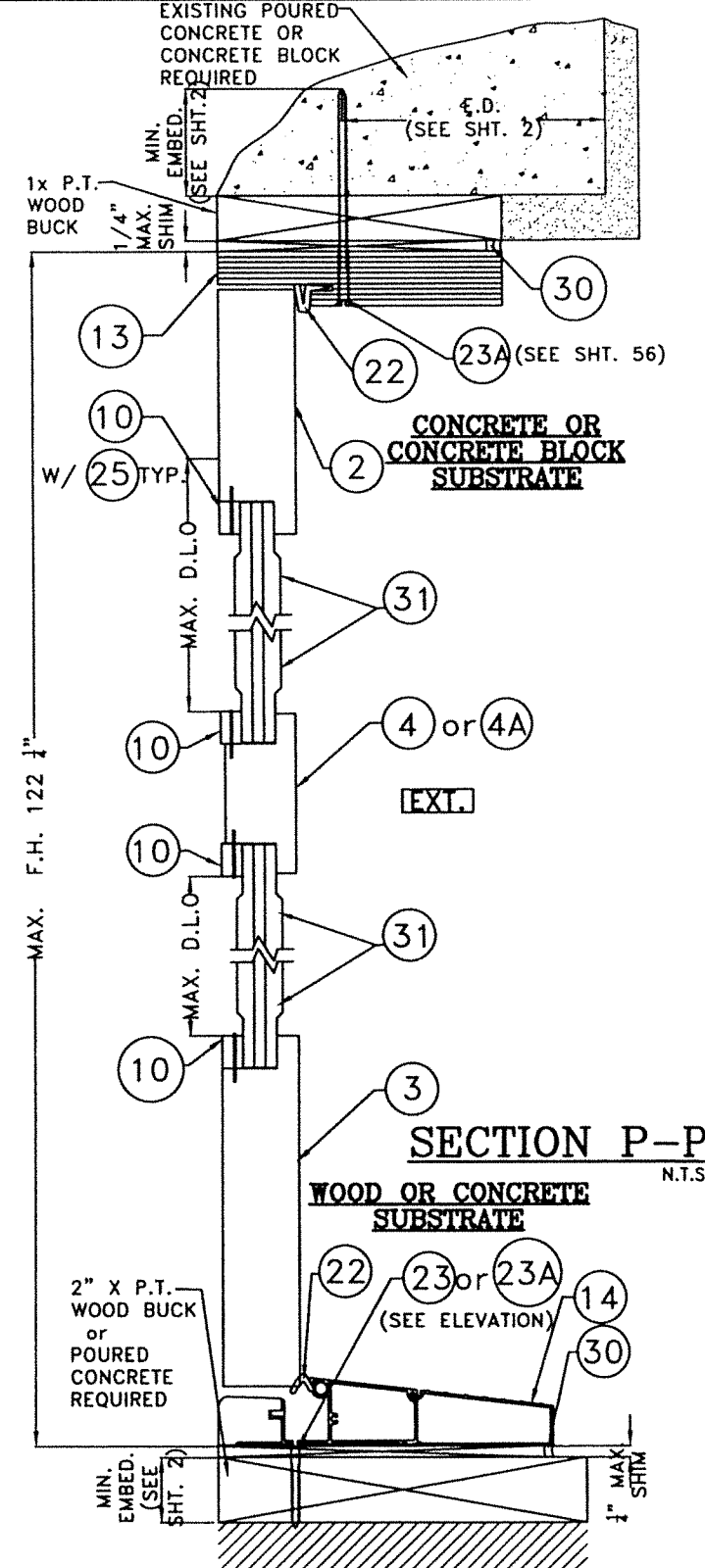
SECTION M-M
N.T.S.



SECTION N-N
N.T.S.



SECTION O-O
N.T.S.

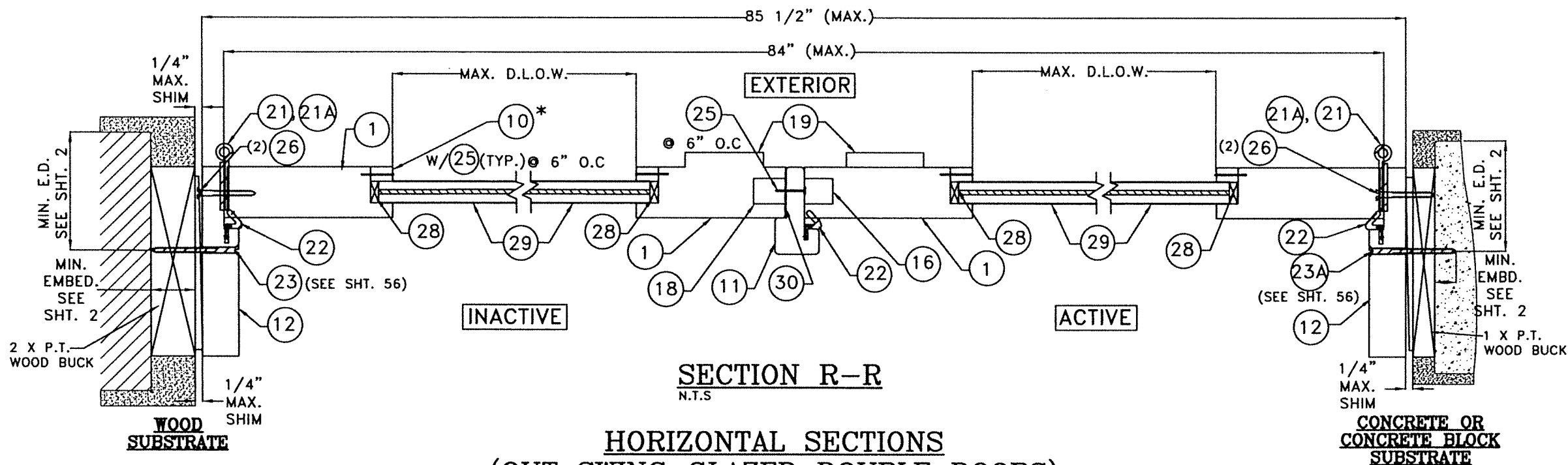
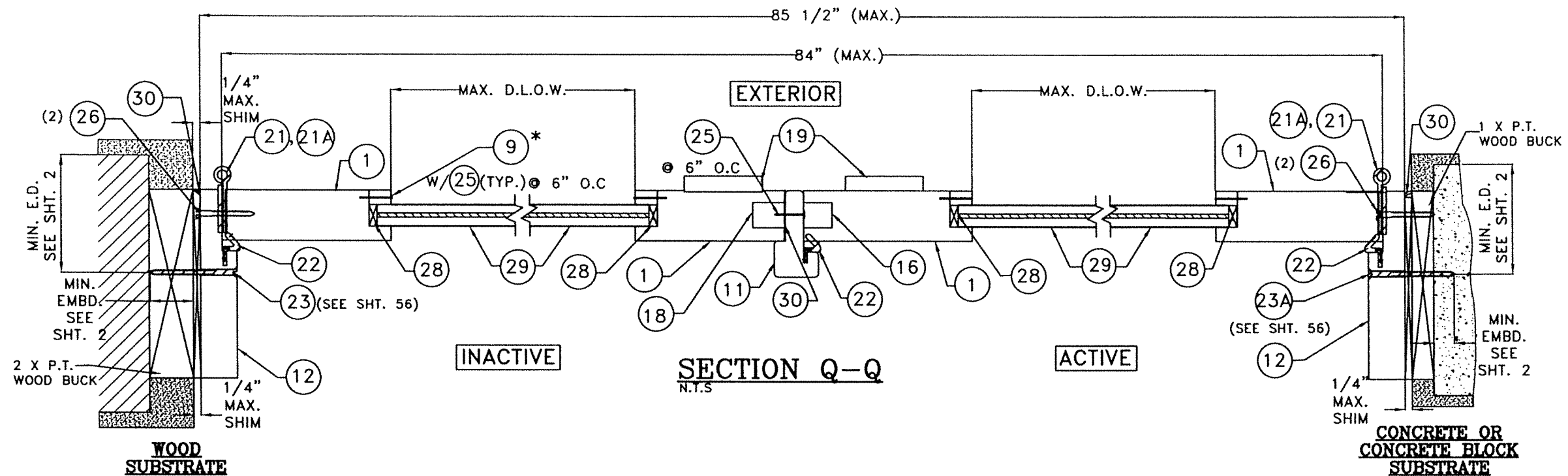


SECTION P-P
N.T.S.

**VERTICAL SECTIONS (IN SWING WOOD PANELING DOORS)
CASE I**

PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 44167
7/24/2023
P.E. SEAL/SIGNATURE/DATE

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE				
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2	-	-	4	-	-				



HORIZONTAL SECTIONS (OUT SWING GLAZED DOUBLE DOORS)

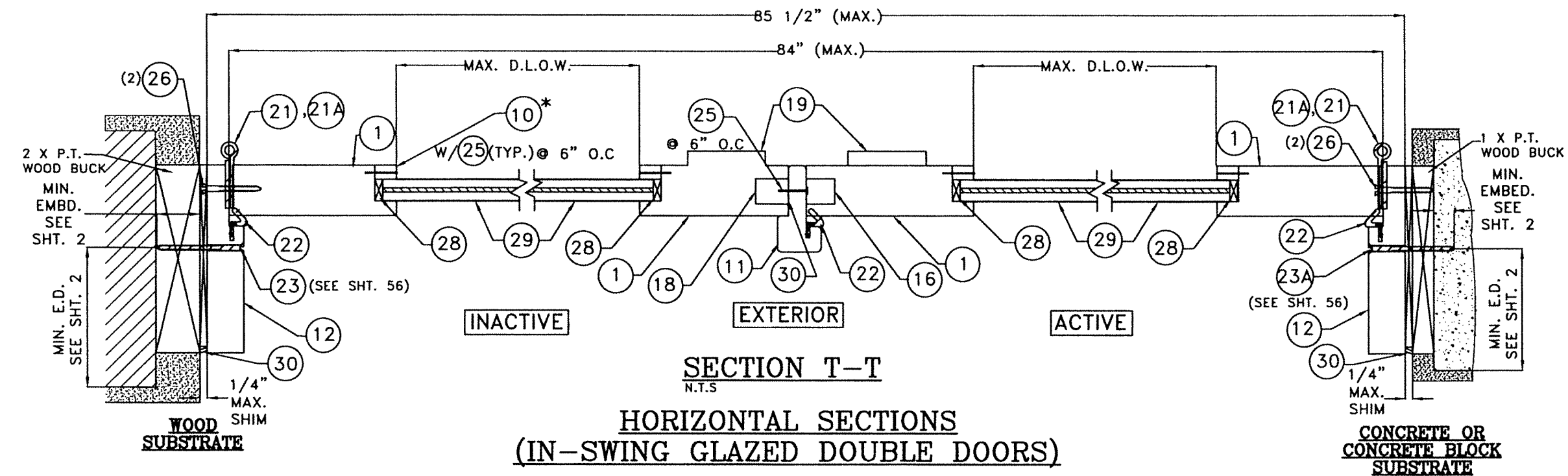
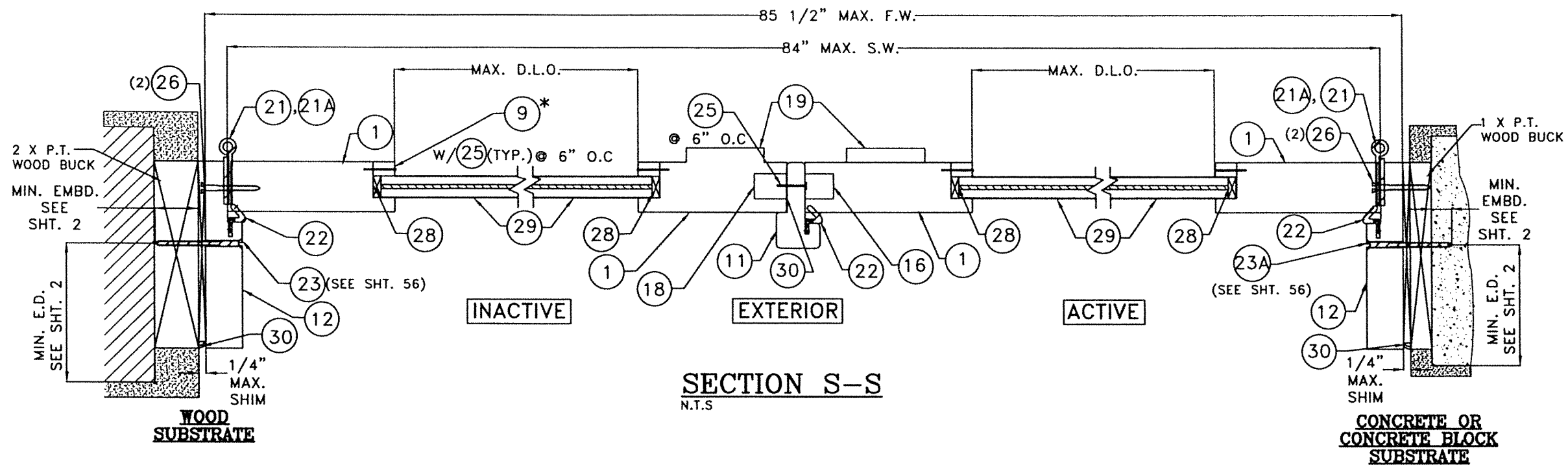
CASE I

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2023

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

*COMPONENTS ⑨ & ⑩ MAY ALSO BE INSTALLED AT INTERIOR SIDE OF DOOR, PROVIDED STILES ① ARE ALSO INSTALLED REVERSED TO ALLOW FOR THIS OPTIONAL INSTALLATION.

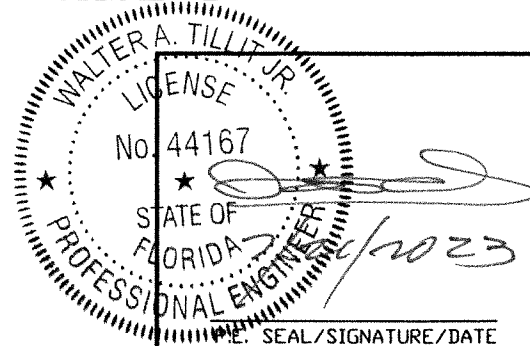
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
© 2023 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719			OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-
			Y.M. DRAWN BY: 7/21/2023 DATE: 23-125 DRAWING No. SHEET 30 OF 57		



HORIZONTAL SECTIONS (IN-SWING GLAZED DOUBLE DOORS)

CASE I

*COMPONENTS 9 & 10 MAY ALSO BE INSTALLED AT INTERIOR SIDE OF DOOR, PROVIDED STILES 1 ARE ALSO INSTALLED REVERSED TO ALLOW FOR THIS OPTIONAL INSTALLATION.



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CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

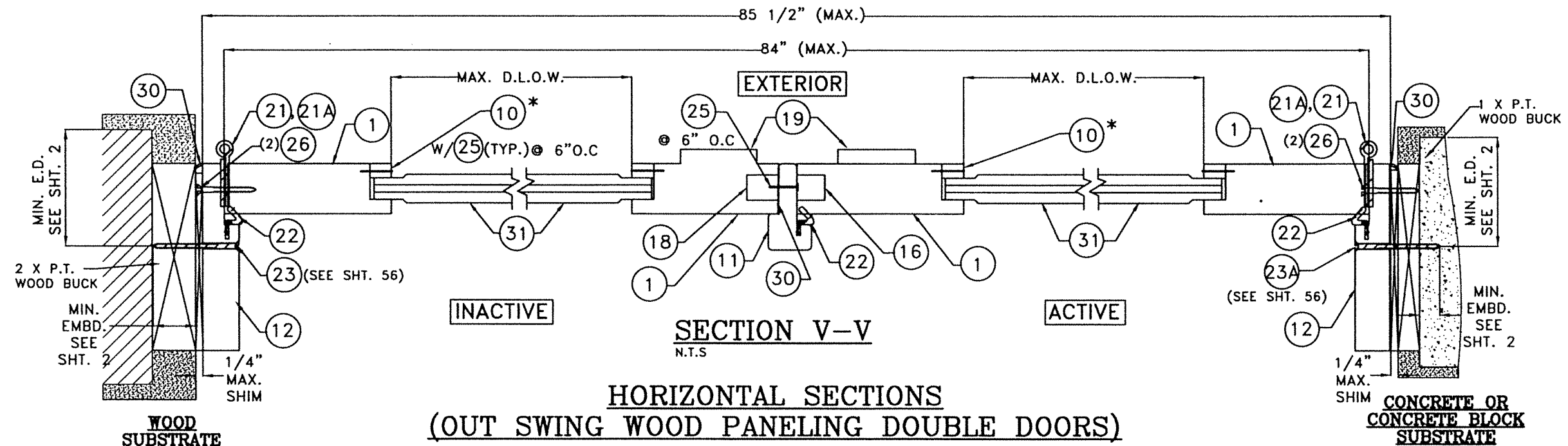
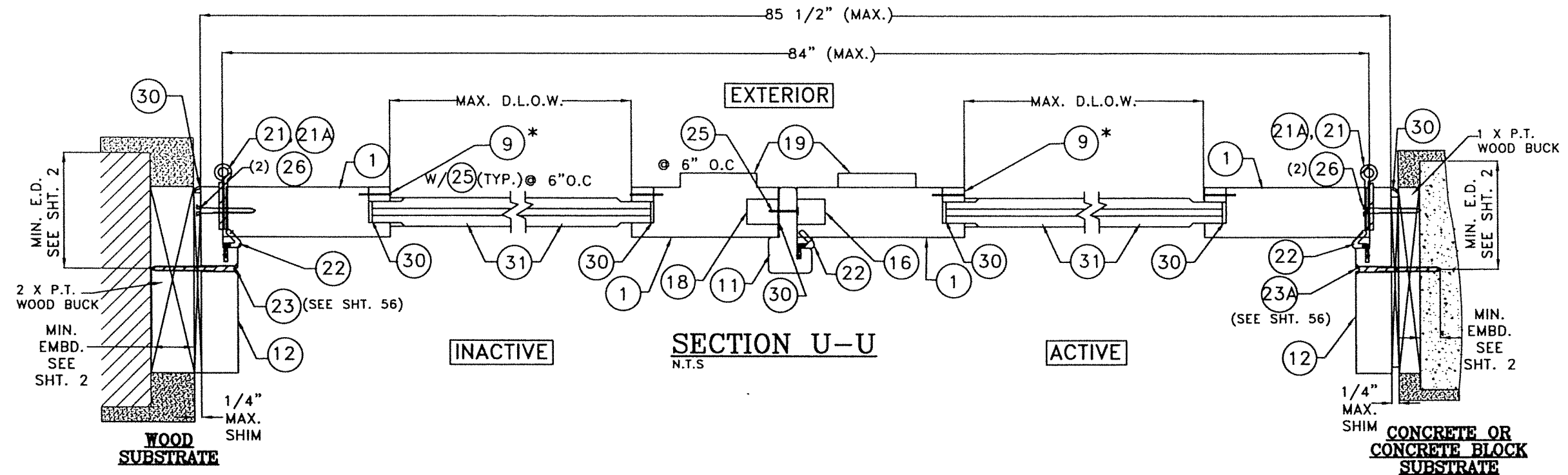
Y.M.
DRAWN BY:

7/21/2023
DATE:

23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

SHEET 31 OF 57



**HORIZONTAL SECTIONS
(OUT SWING WOOD PANELING DOUBLE DOORS)**

CASE I

*COMPONENTS ⑨ & ⑩ MAY ALSO BE INSTALLED AT INTERIOR SIDE OF DOOR, PROVIDED STILES ① ARE ALSO INSTALLED REVERSED TO ALLOW FOR THIS OPTIONAL INSTALLATION.

WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 7/2023
 SEAL/SIGNATURE/DATE

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**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
 BERTHOUD, CO 80513
 PHONE 970-532-2109

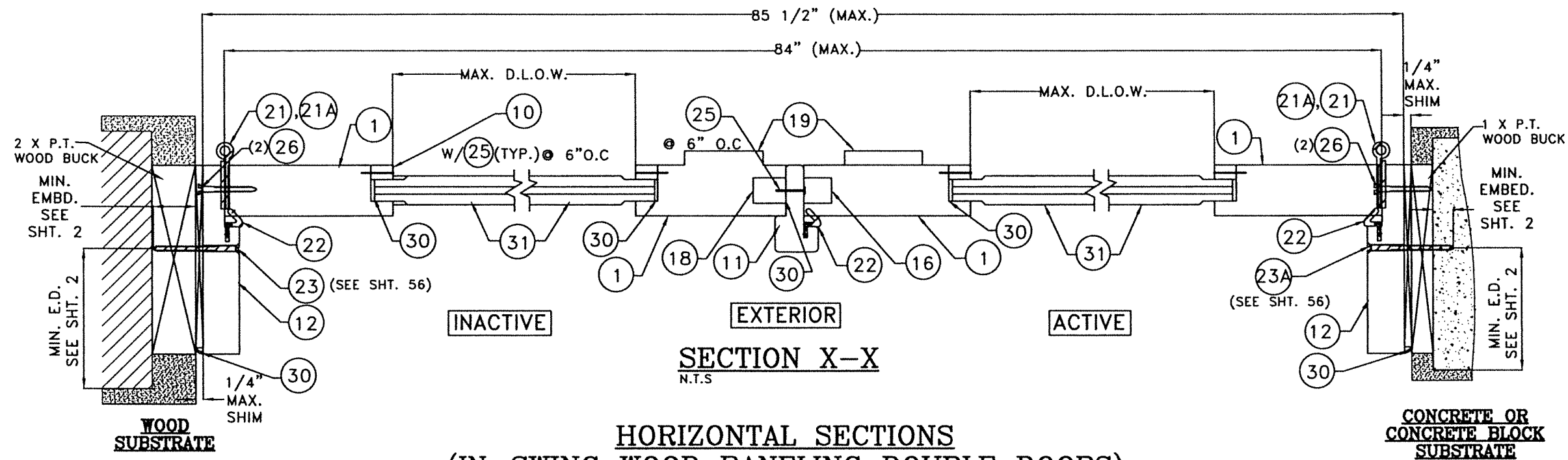
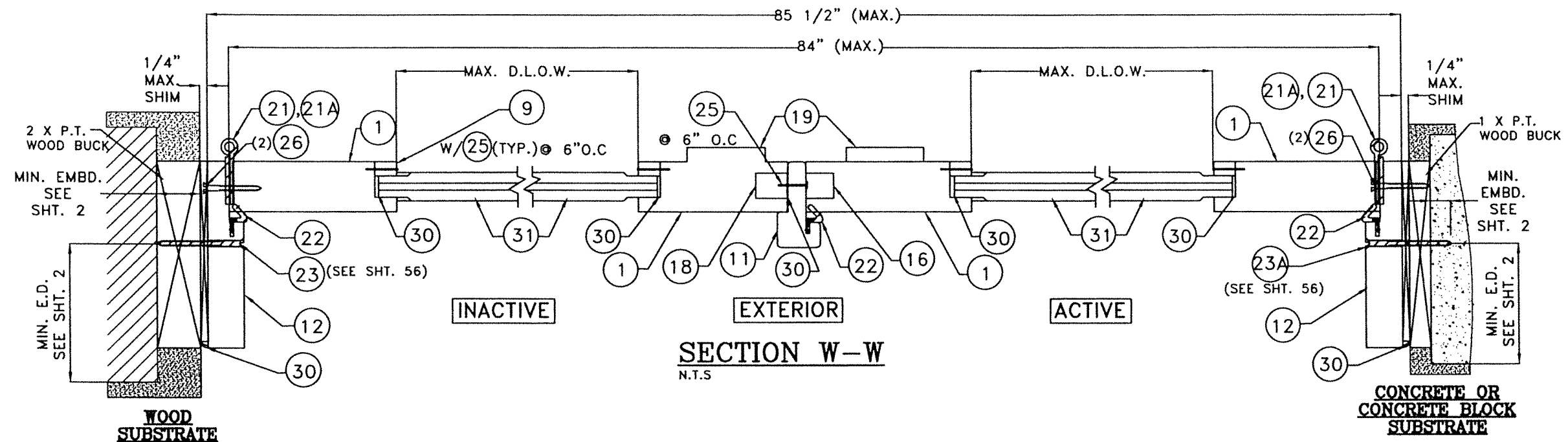
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7/21/2023
DATE:

23-125
DRAWING No.

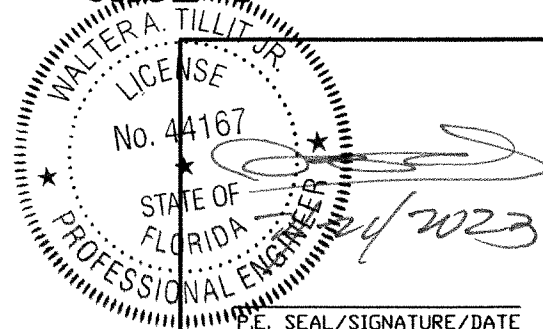
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2	-	-	4	-	-

SHEET 32 OF 57



HORIZONTAL SECTIONS **(IN-SWING WOOD PANELING DOUBLE DOORS)**

CASE I



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WALTER A. TILLIT Jr., P.E.
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**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

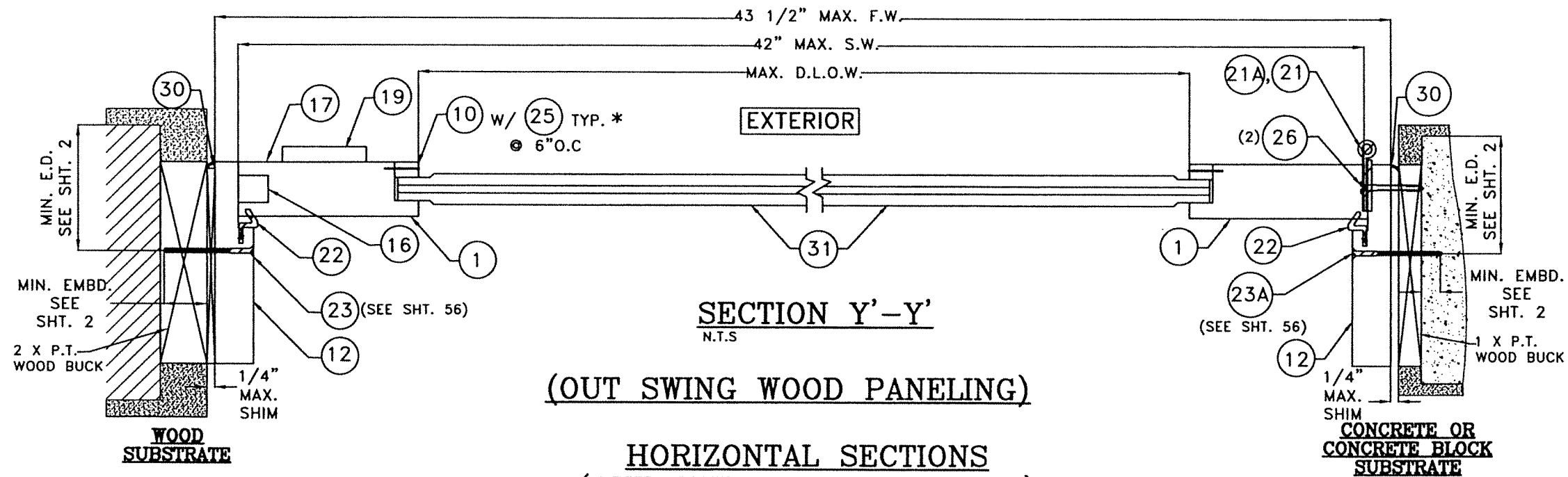
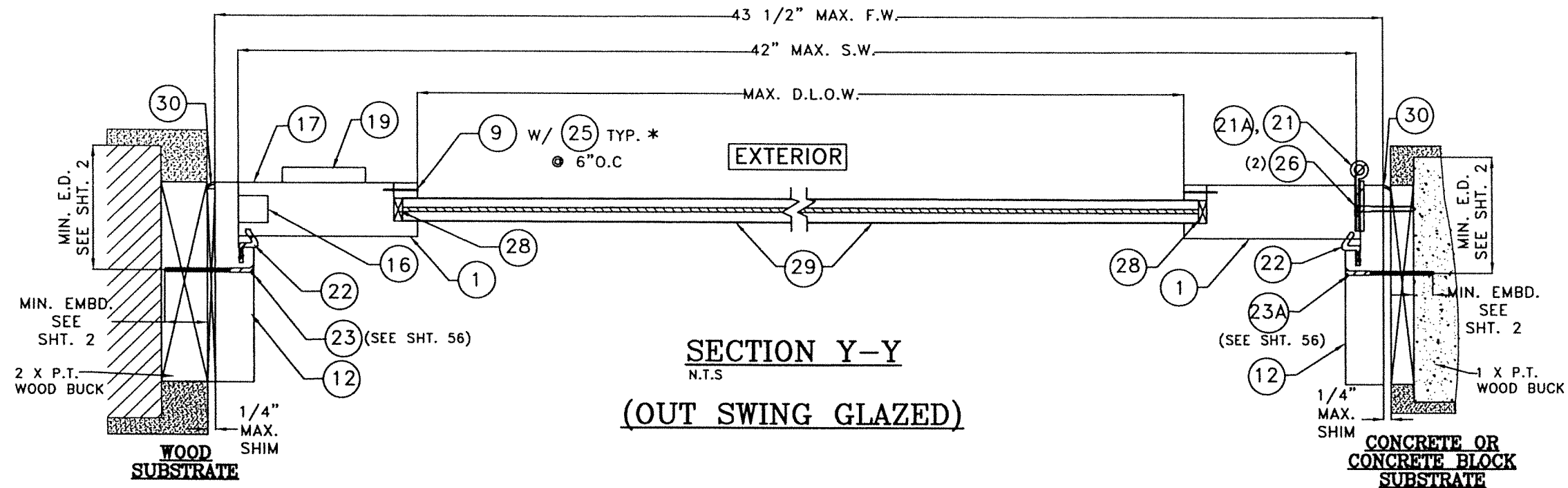
Y.M.
DRAWN BY:

7/21/2023
DATE:

.23-125
DRAWING No.

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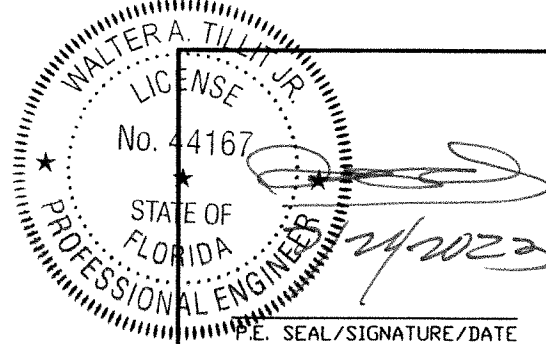
SHEET 33 OF 57



HORIZONTAL SECTIONS
(OUT SWING SINGLE DOORS)

CASE I

*COMPONENTS 9 & 10 MAY ALSO BE INSTALLED AT INTERIOR SIDE OF DOOR, PROVIDED STILES 1 ARE ALSO INSTALLED REVERSED TO ALLOW FOR THIS OPTIONAL INSTALLATION.



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WALTER A. TILLIT Jr. P.E.
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**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

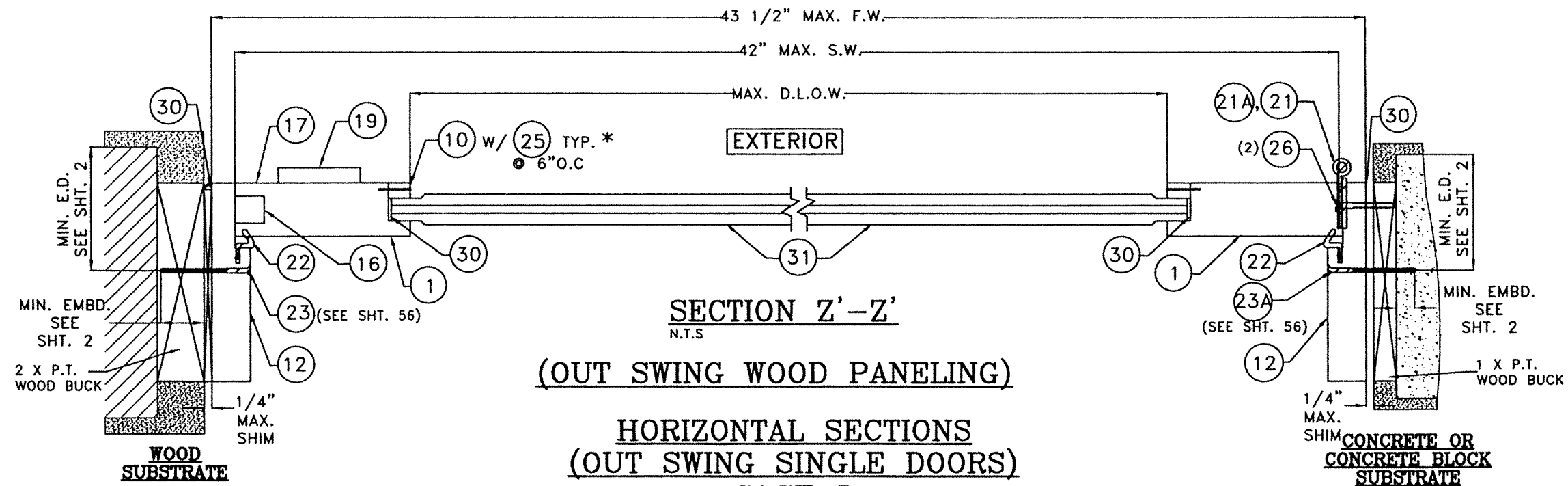
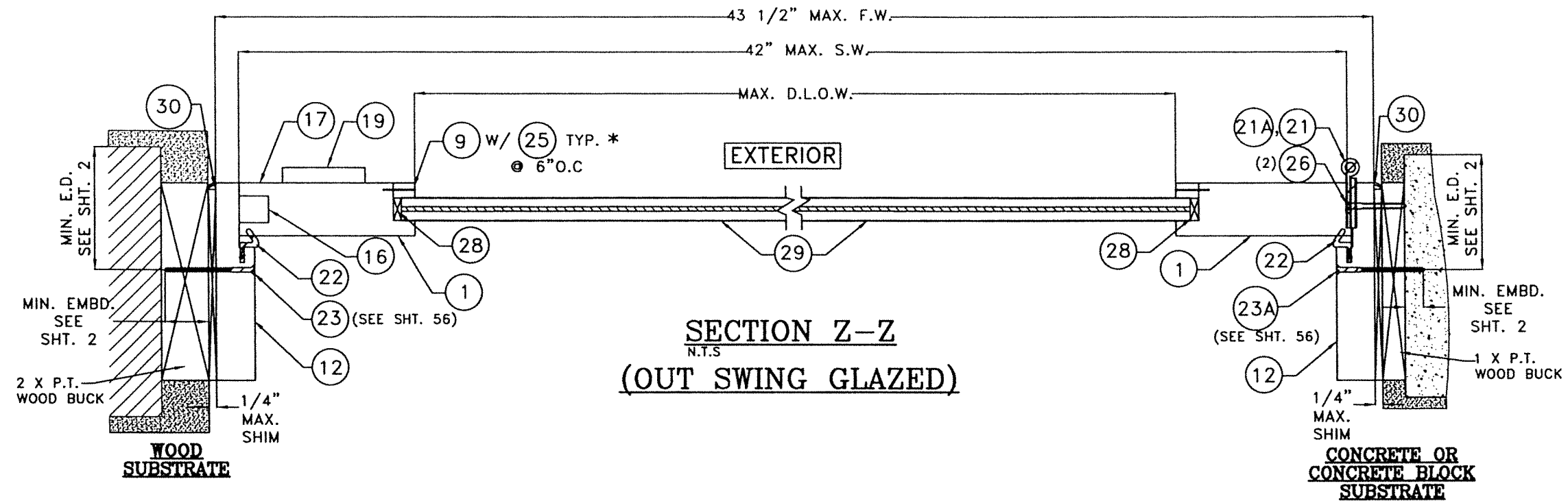
7/21/2023
DATE:

23-125

DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
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SHEET 34 OF 57



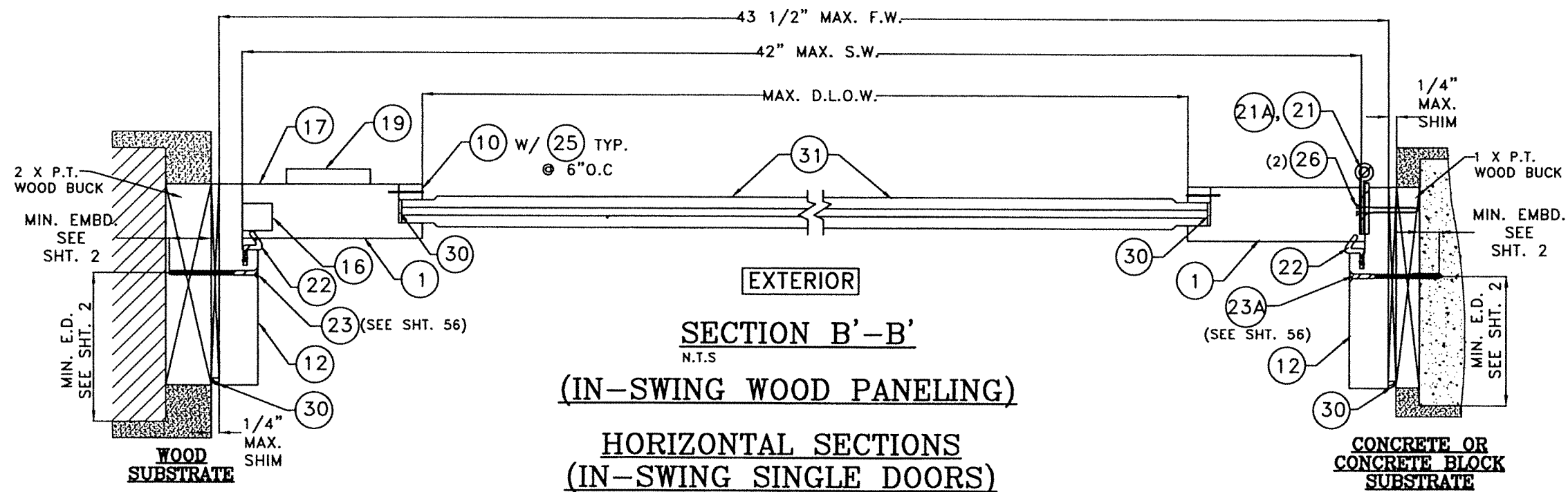
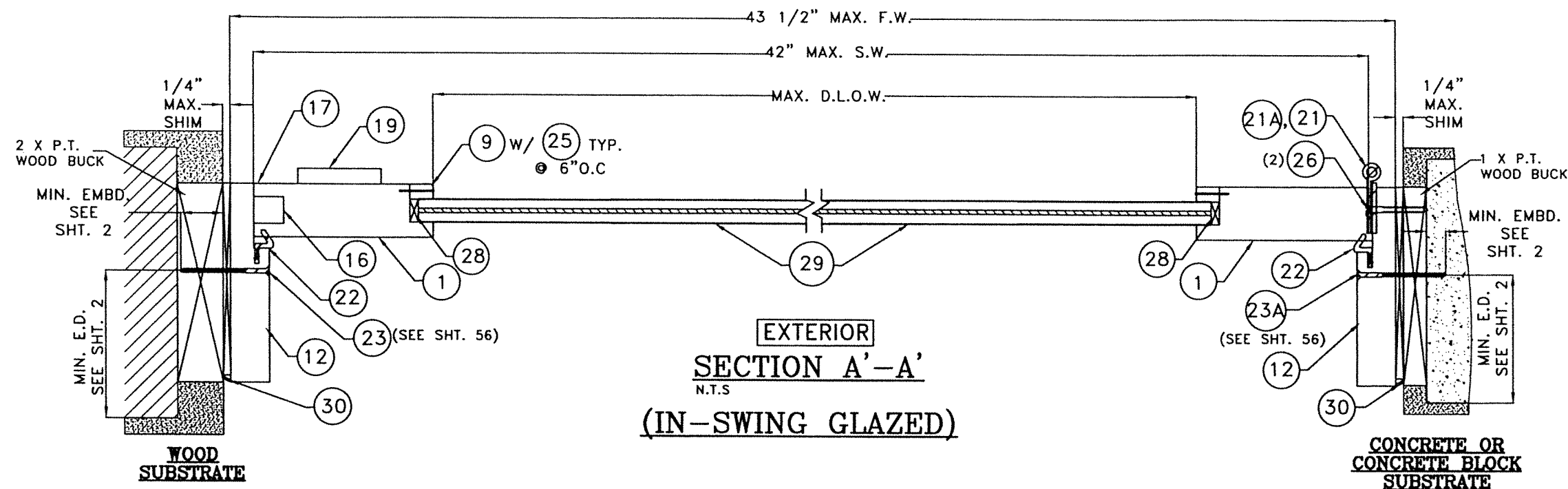
**HORIZONTAL SECTIONS
(OUT SWING SINGLE DOORS)
CASE I**

*COMPONENTS 9 & 10 MAY ALSO BE INSTALLED AT INTERIOR SIDE OF DOOR, PROVIDED STILES 1 ARE ALSO INSTALLED REVERSED TO ALLOW FOR THIS OPTIONAL INSTALLATION.

P.E. SEAL/SIGNATURE/DATE

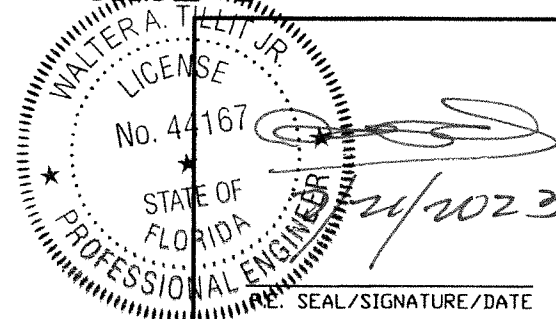
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
© 2023 TILTECO, INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 - Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-

Y.M. DRAWN BY:	7/21/2023 DATE:	23-125 DRAWING No. SHEET 35 OF 57



HORIZONTAL SECTIONS
(IN-SWING SINGLE DOORS)

CASE I



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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III

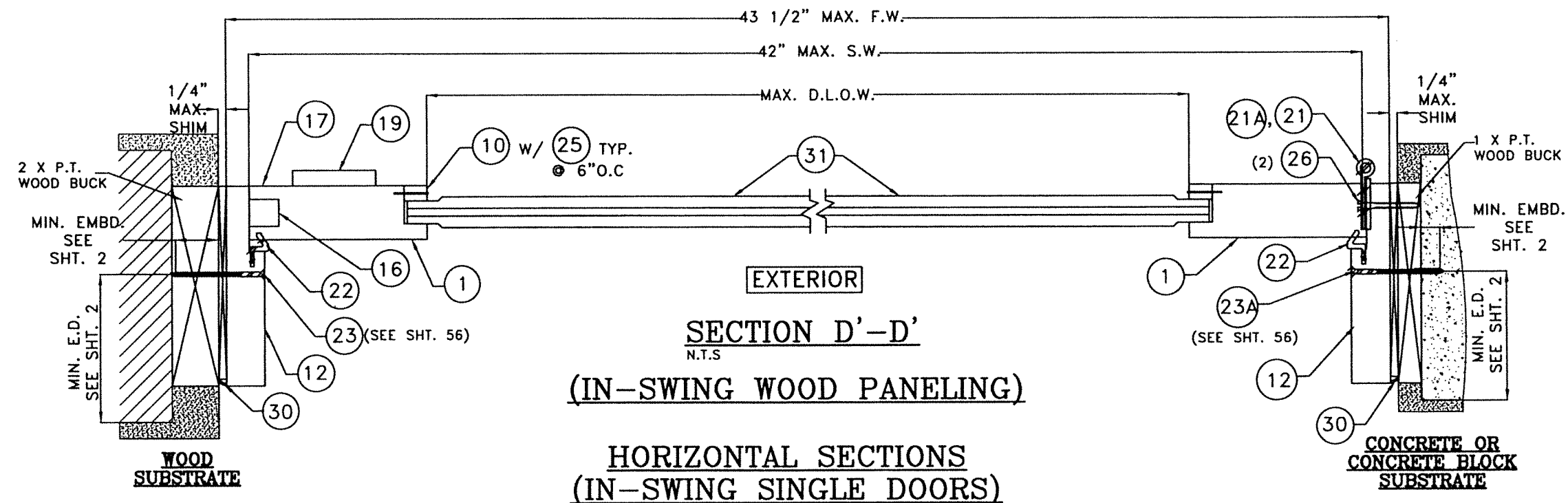
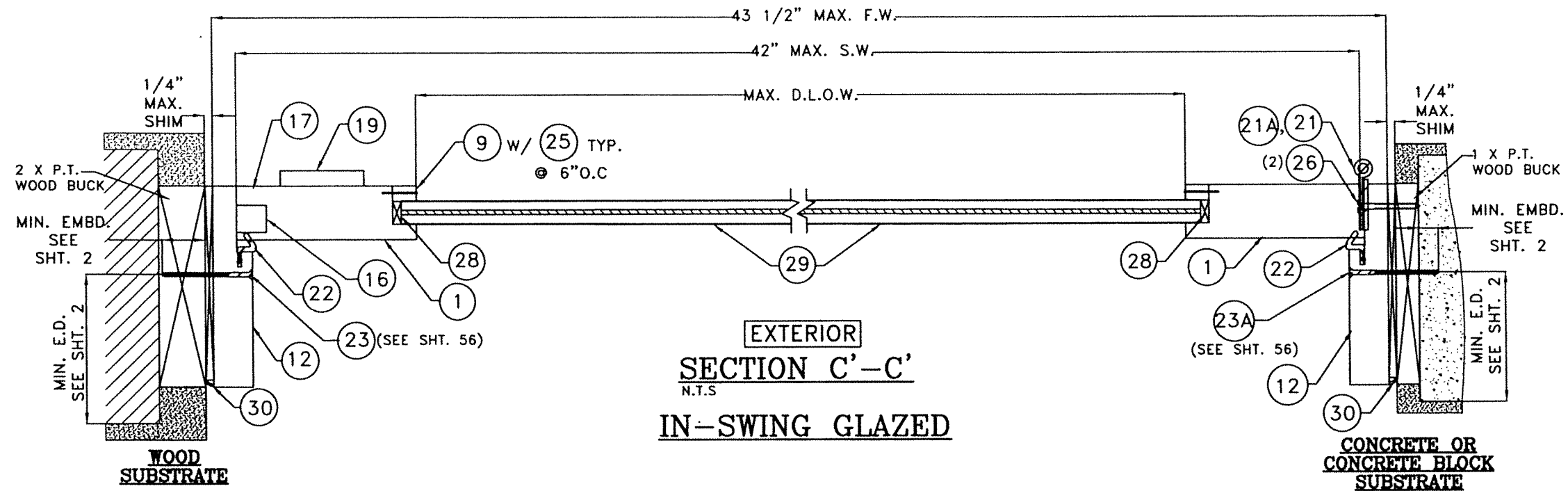
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:
7/21/2023
DATE:

23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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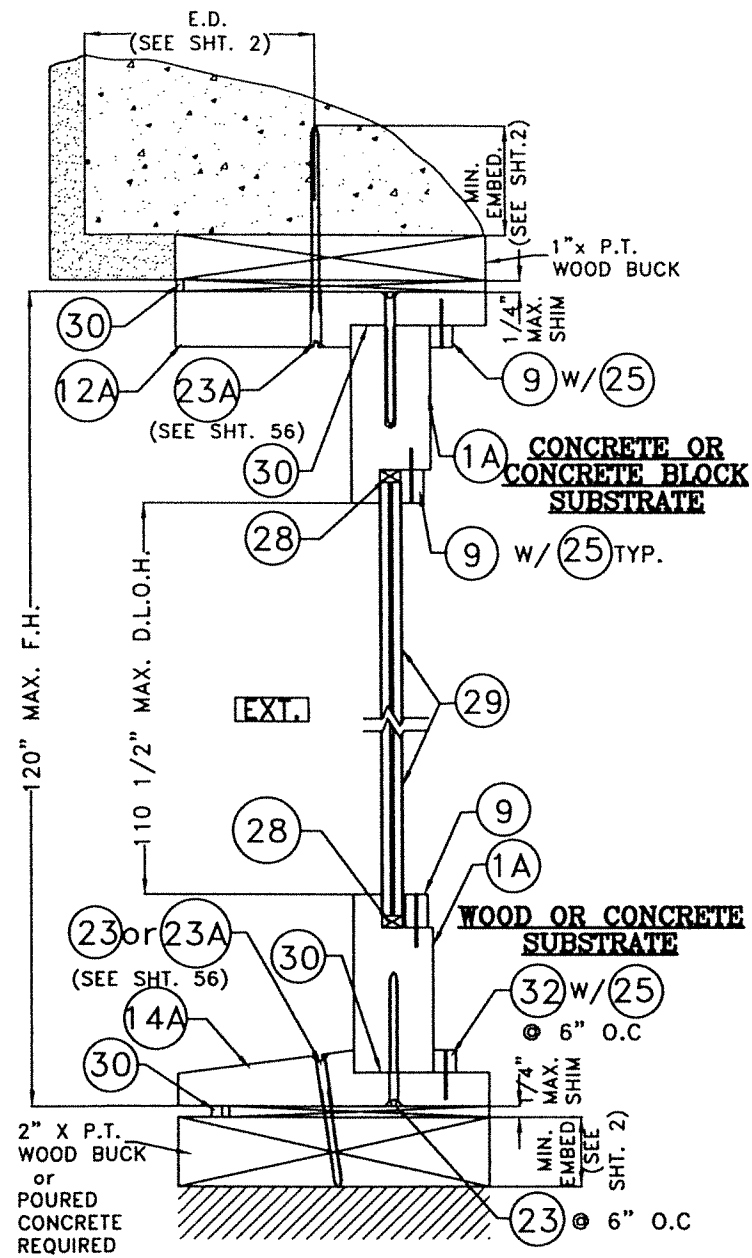
SHEET 36 OF 57



**HORIZONTAL SECTIONS
(IN-SWING SINGLE DOORS)**

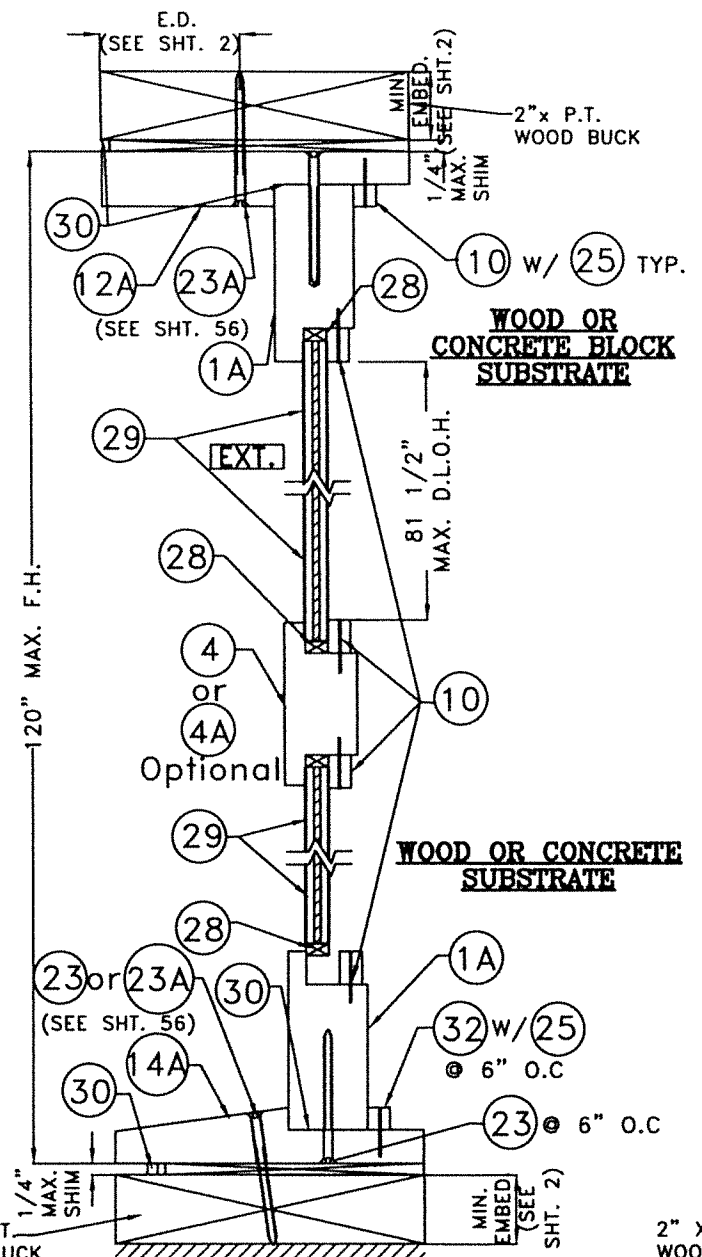
CASE 1
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/21/2023
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
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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			SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-
					Y.M. DRAWN BY: 7/21/2023 DATE: 23-125 DRAWING No. SHEET 37 OF 57



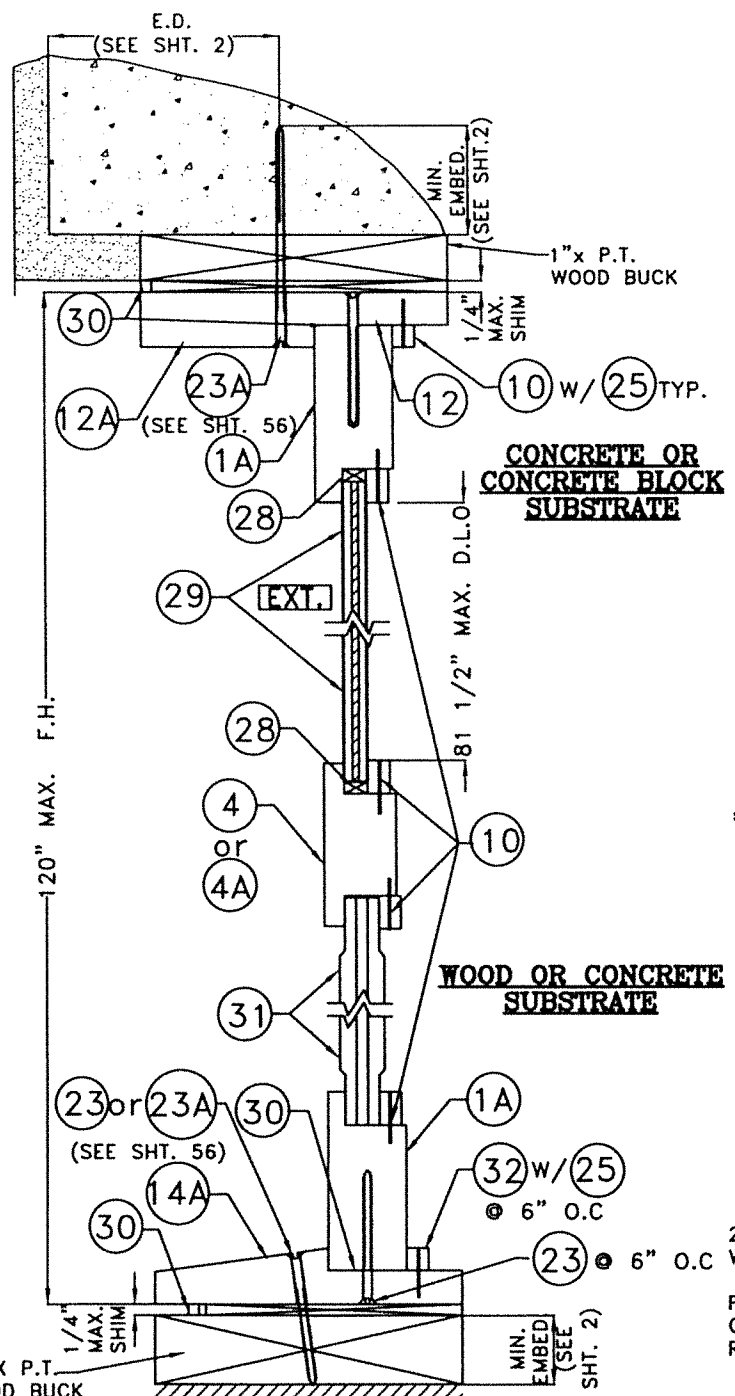
SECTION E'-E'
N.T.S

TYPICAL SIDELITE & TRANSOM (GLAZED)



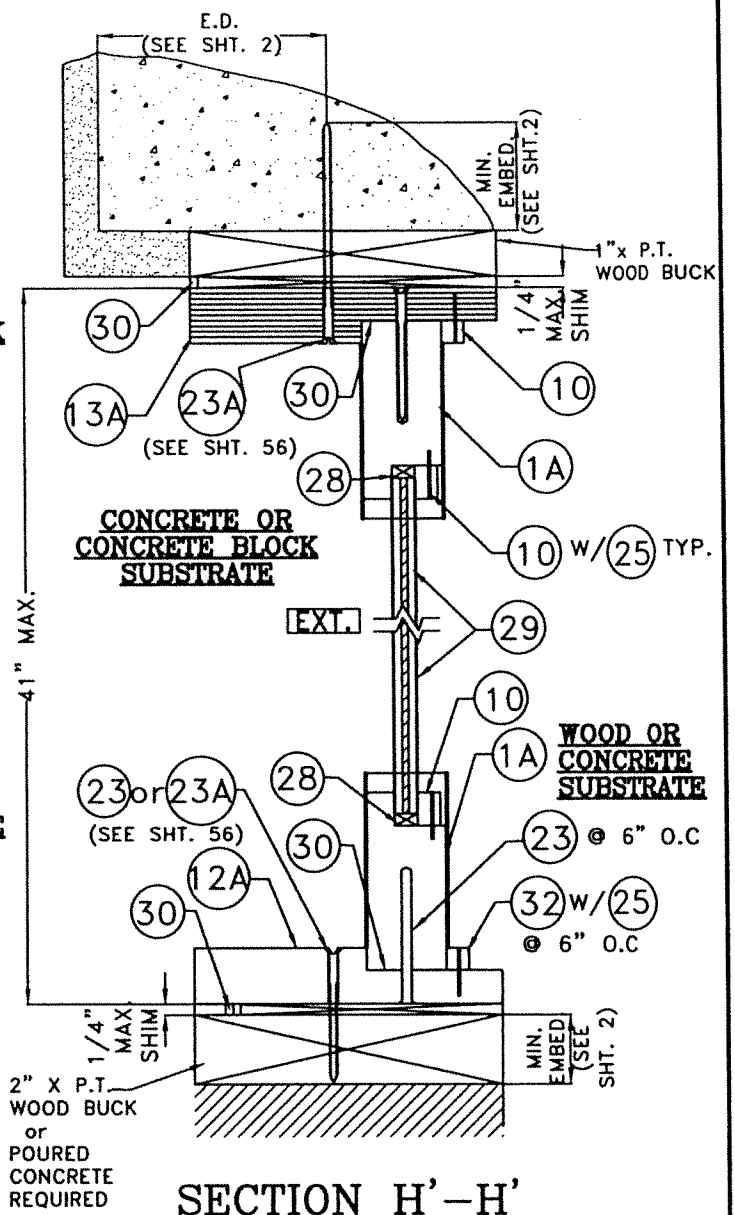
SECTION F'-F'
N.T.S

SIDELITE (GLAZED)



SECTION G'-G'
N.T.S

SIDELITE (GLASS & WOOD PANELING)



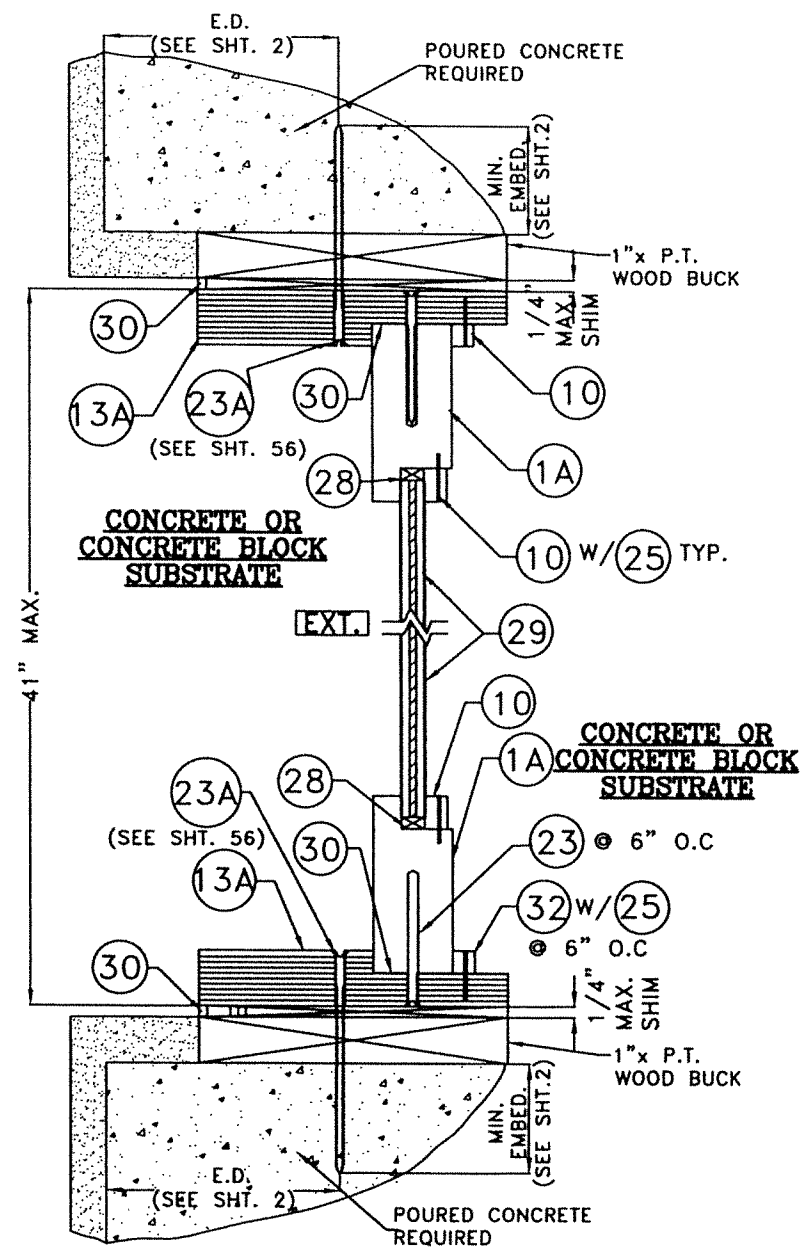
SECTION H'-H'
N.T.S

ARCHED SIDELITE & TRANSOM (GLAZED)

**VERTICAL SECTIONS SIDELITE & TRANSOM
CASE I**

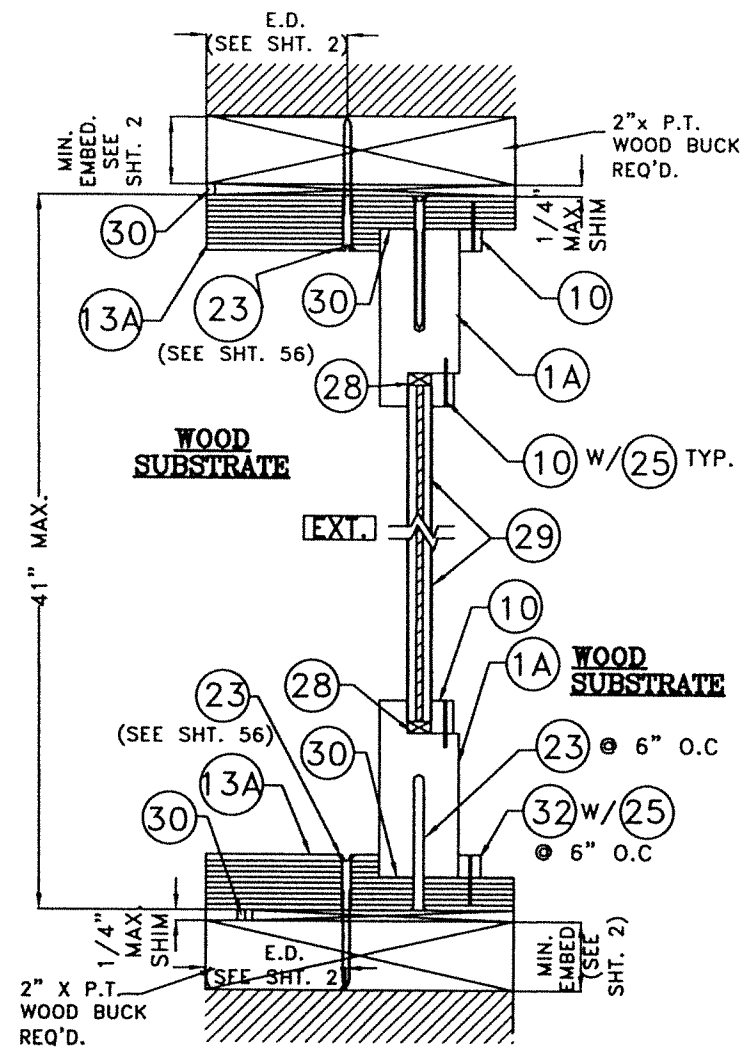
WALTER A. TILLIT
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE			
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2	-	-	4	-	-			

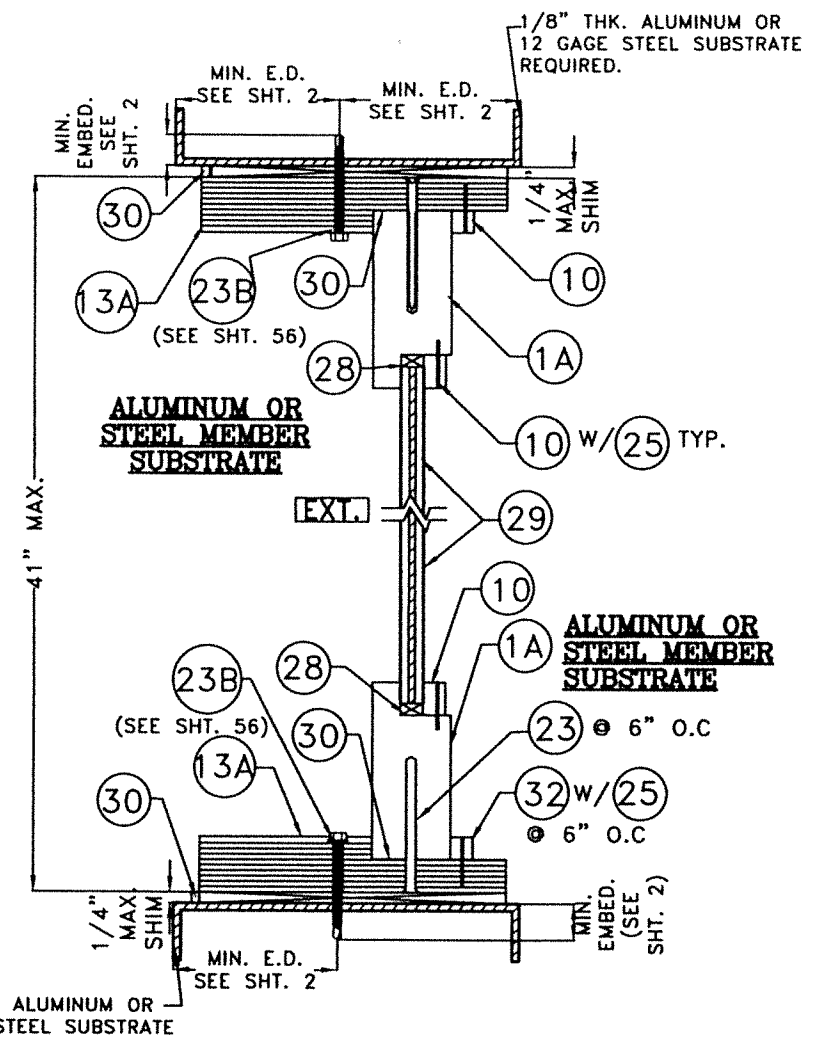


SECTION E"-E"
N.T.S.
DOUBLE EYEBROW TRANSOM
(GLAZED)

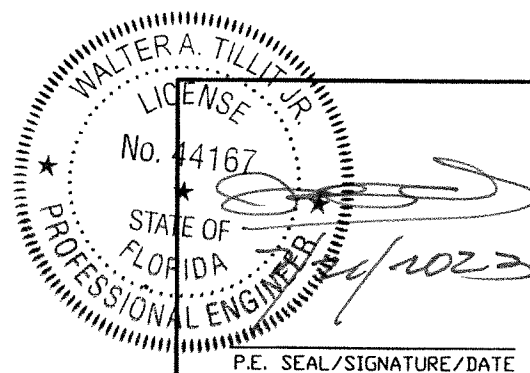
VERTICAL SECTIONS TRANSOM
CASE I



SECTION N"-N"
N.T.S.
DOUBLE EYEBROW TRANSOM
(GLAZED)



SECTION H"-H"
N.T.S.
DOUBLE EYEBROW TRANSOM
(GLAZED)



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

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CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

Y.M.
DRAWN BY:

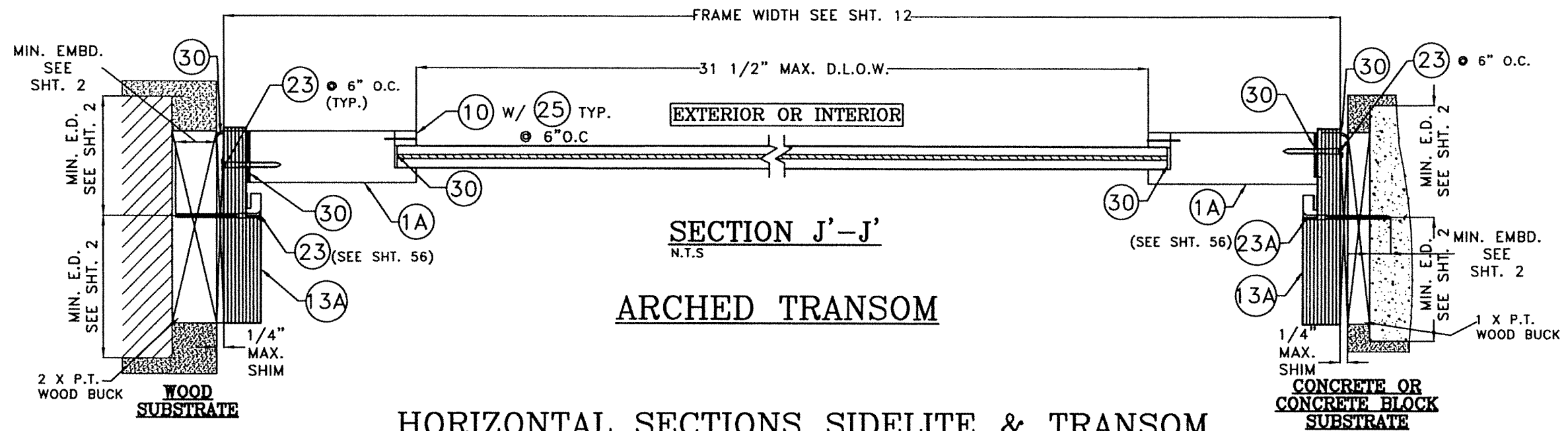
7/21/2023
DATE:

23-125

DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

SHEET 38A OF 57

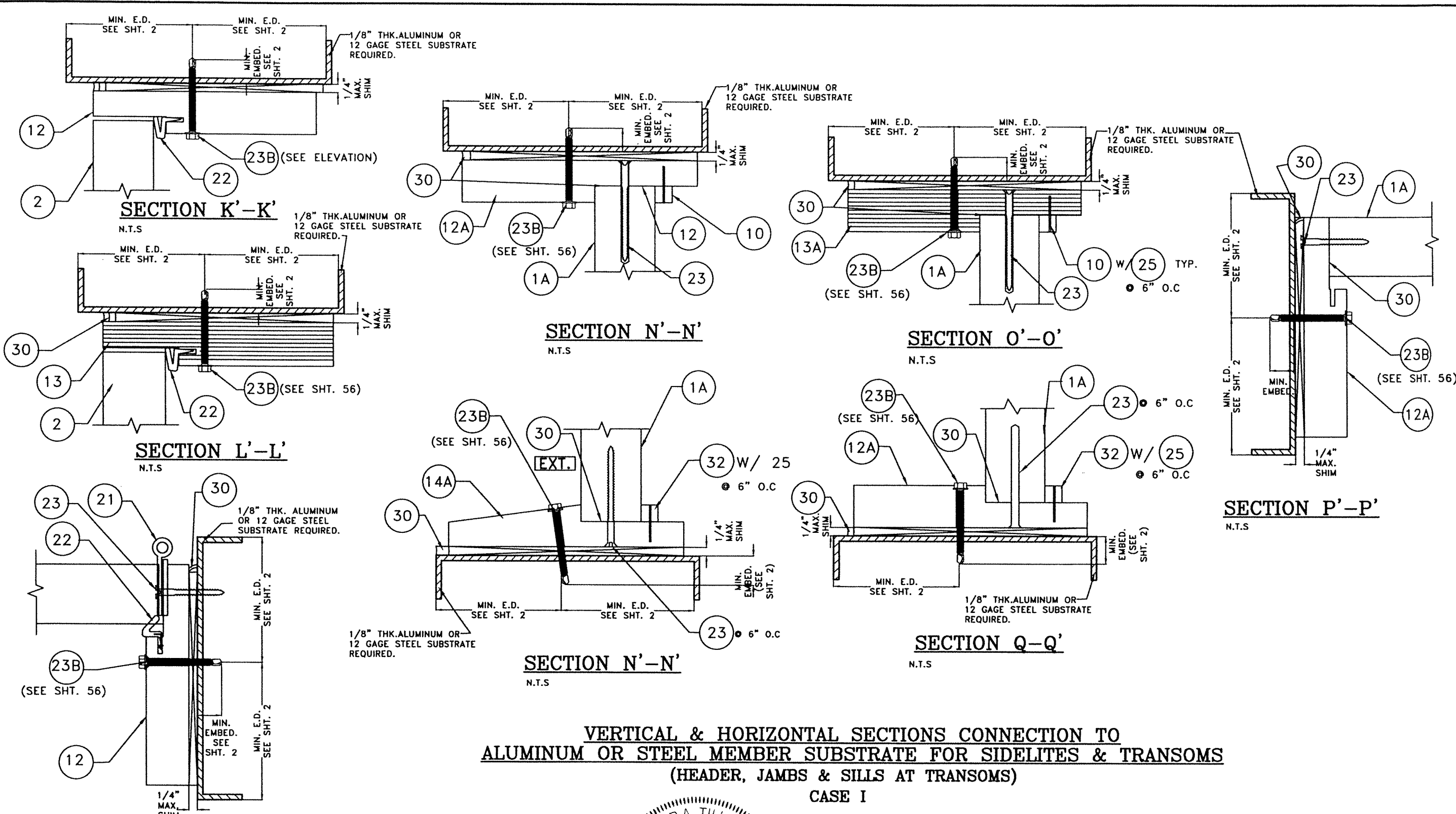


WALTER A. TILLITT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2/26/02

SEAL/SIGNATURE/DATE

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1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-



**VERTICAL & HORIZONTAL SECTIONS CONNECTION TO
ALUMINUM OR STEEL MEMBER SUBSTRATE FOR SIDELITES & TRANSOMS
(HEADER, JAMBS & SILLS AT TRANSOMS)
CASE I**

**VERTICAL & HORIZONTAL SECTIONS CONNECTION
TO ALUMINUM OR STEEL MEMBER SUBSTRATE
FOR DOUBLE & SINGLE DOORS
(ONLY HEADERS & JAMBS)
CASE I**

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7/21/2023
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
© 2023 TILTECO, INC.			OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III		Y.M. DRAWN BY:
TILTECO INC.			SUN MOUNTAIN CUSTOM DOORS		7/21/2023 DATE:
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0008719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		23-125 DRAWING No.
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-

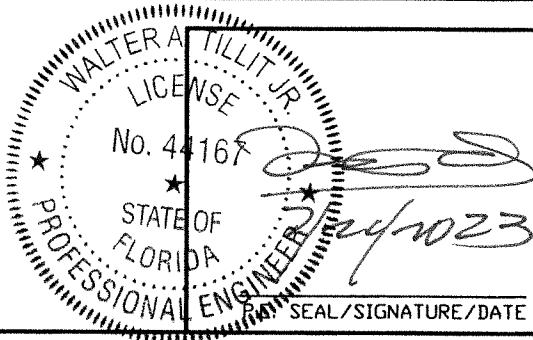
BILL OF MATERIALS SPLIT WOOD/GLASS PANELS DOORS: CASE II

COMPONENT #	DESCRIPTION	DIMENSIONS	MATERIAL	REMARKS
1A1	HINGE STILE @ GLASS PANEL W/BEVEL	5.625" X 1.750"	LVL W/WOOD VENEER+ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
1A2	HINGE STILE @ WOOD PANEL W/BEVEL	5.625" X 1.750"	LVL W/WOOD VENEER+ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
1B1	MEETING STILE W/ GLASS PANEL W/O ASTRAGAL W/O BEVEL	5.625" X 1.750"	LVL W/WOOD VENEER+ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
1B2	MEETING STILE W/ WOOD PANEL W/O ASTRAGAL W/O BEVEL	5.625" X 1.750"	LVL W/WOOD VENEER+ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
1B3	MEETING STILE W/ WOOD PANEL W/ ASTRAGAL W/O BEVEL	5.250" X 1.750"	LVL W/WOOD VENEER+ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
1B4	MEETING STILE W/ GLASS PANEL W/ ASTRAGAL W/O BEVEL	5.250" X 1.750"	LVL W/WOOD VENEER+ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	ALL SURFACES GLUED WITH FRANKLIN ADHESIVES ADVANTAGE 405
1C	NEW INTERIOR STILE (SPLIT WOOD PANELING)	4.250" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55) + LVL + VENEER	-
1D	NEW INTERIOR STILE (SPLIT GLASS PANELING)	4.250" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55) + LVL + VENEER	-
2A	TOP RAIL FOR SPLIT WOOD PANELING	5.625" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55) + LVL + VENEER	-
2B	TOP RAIL FOR SPLIT GLASS PANELING	5.625" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55) + LVL + VENEER	-
3A	BOTTOM RAIL FOR (SPLIT WOOD PANELING)	8.125" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
3B	BOTTOM RAIL FOR (SPLIT GLASS PANELING)	8.125" X 1.750"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
9	GLAZING BEAD FOR SPLIT GLASS	0.750" X 0.563"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
10	GLAZING BEAD FOR SPLIT WOOD PANELING	0.750" X 0.375"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
11	FIXED ASTRAGAL	3.000" X 1.500"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
12	HEAD/JAMB	6.625" X 1.250"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
14	IN-SWING THRESHOLD (HYDROSILL)	7.613" X 1.560"	EXTRUDED ALUMINUM + OAK WOOD	SCHLEGEL SERIES 5000
15	OUT-SWING THRESHOLD	7.437" X 1.250"	EXTRUDED ALUMINUM + OAK WOOD	COMBO ALUMINUM 412
16	5 POINT LOCK SYSTEM	-	STEEL	HOPPE HLS 9000 TONGUE/SHOOTBOLT
18	2 POINT LOCK SYSTEM	-	STEEL	HOPPE HLS 9000
19	SHOOT BOLT STRIKE PLATE	-	STEEL	HOPPE
20	HANDLE	-	METAL, NICKEL FINISHED	AS REQUIRED TO OPERATE LOCK SYSTEM
21	BUTT HINGE, BALL BEARING	4 1/2" X 4 1/2" X 1/8"	SOLID BRASS	MANUFACTURED BY DELTANA HARDWARE DSB45B
21A	BUTT HINGE, BALL BEARING	4 1/2" X 4 1/2" X 1/8"	STAINLESS STEEL 304 SERIES	MIN. Fy=33 Ksi MATERIAL
22	WEATHER STRIP (DOOR SEAL)	0.992" X 0.580"	URETHANE FOAM	MODEL PF588 FEN-SEAL, BY AMWEATHERGUARD
23	SELF-TAPPING WOOD SCREW	#12 X 2.5"	GALVANIZED OR STAINLESS STEEL	MINIMUM 1 1/4" PENETRATION INTO WOOD
23A	ULTRACON	1/4 Ø	410 STAINLESS STEEL	MIN.1 3/4" PENETRATION INTO CONCRETE & 1 1/4" INTO CONCRETE BLOCK, MANUFAC. BY ELCO CONST. W/MIN 2 1/2" E.D.
23B	TEK SCREW	1/4 Ø-14	CLIMASEAL COATED STEEL OR 401 SERIES S.S. (SEE NOTE 8/1)	MINIMUM PENETRATION EQUAL MIN. SUBSTRATE THICKNESS +3 TREADS (1/8" ALUM. OR STEEL) W/MIN 1/2" E.D MANUF. BY ITW/BUILDEX
25	1 3/16" LONG BRAD NAIL	18 GA DIAMETER	GALVANIZED STEEL	1" FROM CORNERS AND MIN. 6" O.C
26	WOOD SCREW, HINGE	#12	GALVANIZED OR STAINLESS STEEL	MINIMUM 3/4" PENETRATION INTO FRAME

DEFINITIONS:

LVL CORE: LAMINATED VENEER LUMBER, WHERE LUMBER IS DOUGLAS FIR (0.47) OR LARGER SPECIFIC GRAVITY WOOD, ADHERED W/PROPRIETARY ADHESIVE.

1/8" THICK VENEER: ALDER (0.41) OR LARGER SPECIFIC GRAVITY WOOD.



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

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TILTECO INC.

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

OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-

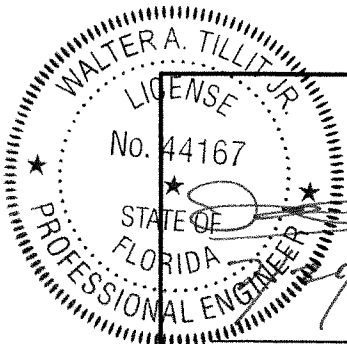
Y.M.
DRAWN BY:

7/21/2023
DATE:

23-125
DRAWING No.

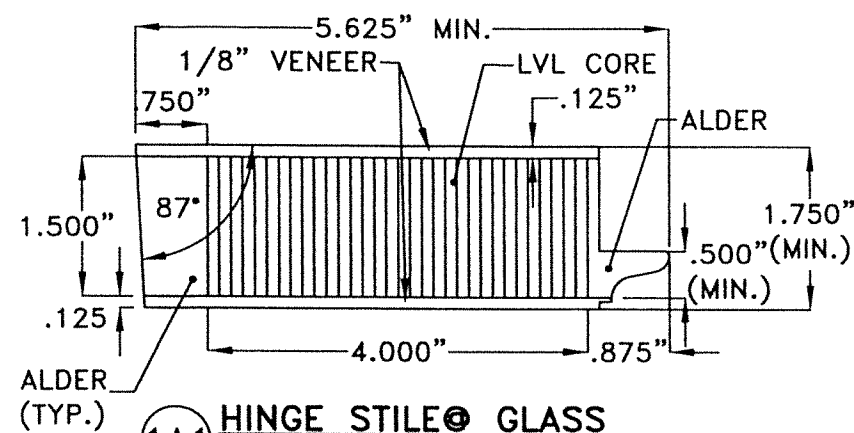
SHEET 41 OF 57

BILL OF MATERIALS SPLIT WOOD/GLASS PANELS DOORS: CASE II CONTINUATION				
COMPONENT #	DESCRIPTION	DIMENSIONS	MATERIAL	REMARKS
27	STRUCTURAL SILICONE DOW CORNING 995	-	SILICONE	ALL AROUND GLASS
28	SETTING BLOCK FOR GLASS	0.122" x 0.5"	E.P.D.M., MINIMUM DUROMETER= 70.0	MANUFACTURER ULTRAFAB
29	LAMINATED GLASS	SEE ELEVATIONS	3/16" HEAT STRENGTHENED + 0.075 THK. GLASS INTERLAYER + 3/16" HEAT STRENGTHENED	INTERLAYER MANUFACTURED BY OLD CASTLE BUILDING ENVELOPE
30	SILICONE DOW CORNING 795	-	SILICONE	ALL AROUND FRAME
31	WOOD PANELING	SEE DETAIL SHEET 43	COMPOSITE WOOD: SEE DETAIL ON SHEET 43	MIN. 1/4" ALDER WOOD OR LARGER SPECIFIC GRAVITY + 1/4" PLYWOOD CORE + 1/4" ALDER WOOD OR LARGER SPECIFIC GRAVITY

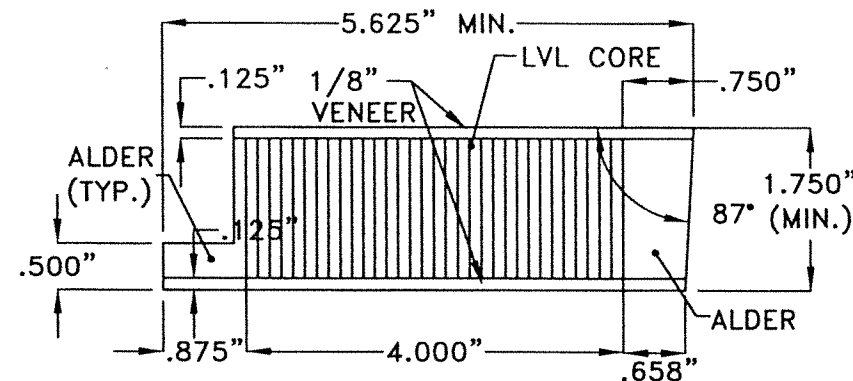


P.E. SEAL/SIGNATURE/DATE

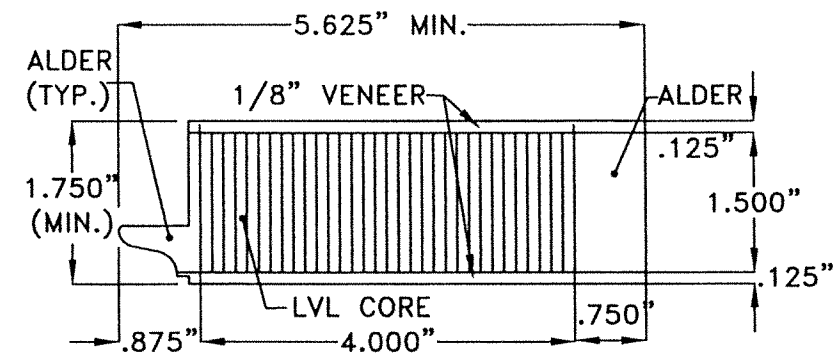
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)					
© 2023 TILTECO, INC.			OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III		
			SUN MOUNTAIN CUSTOM DOORS		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., 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			140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-
Y.M. DRAWN BY: 7/21/2023 DATE: 23-125 DRAWING No. SHEET 41A OF 57					



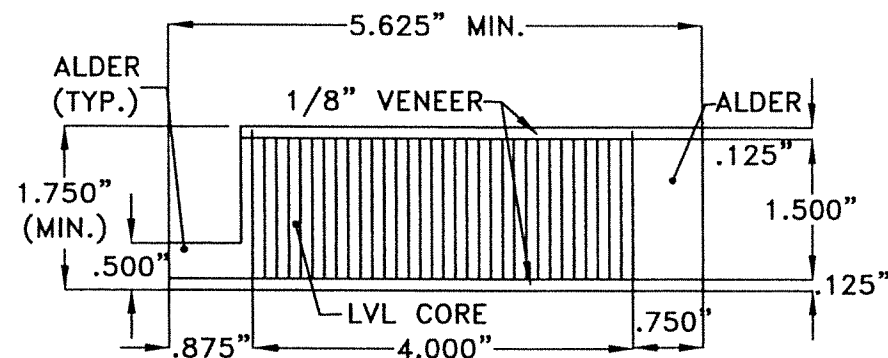
1A1 HINGE STILE® GLASS
 PANEL W/BEVEL



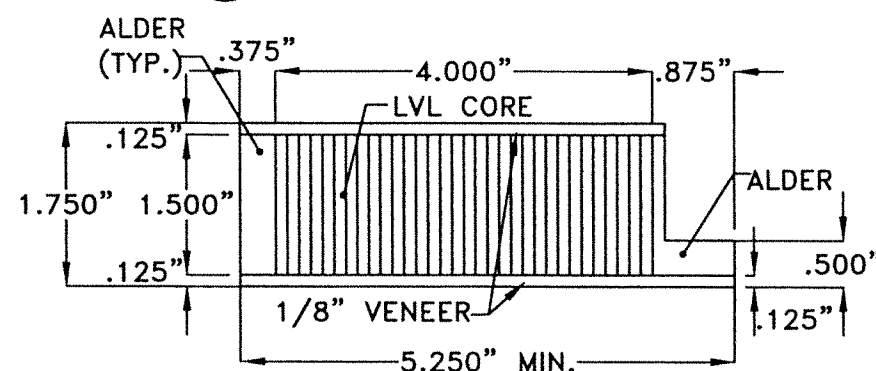
1A2 HINGE STILE® WOOD
 PANEL W/BEVEL



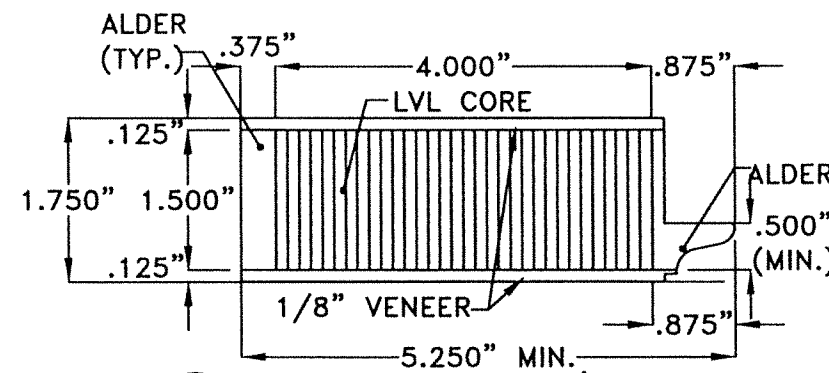
1B1 MEETING STILE W/GLASS PANEL
 W/O ASTRAGAL & W/O BEVEL



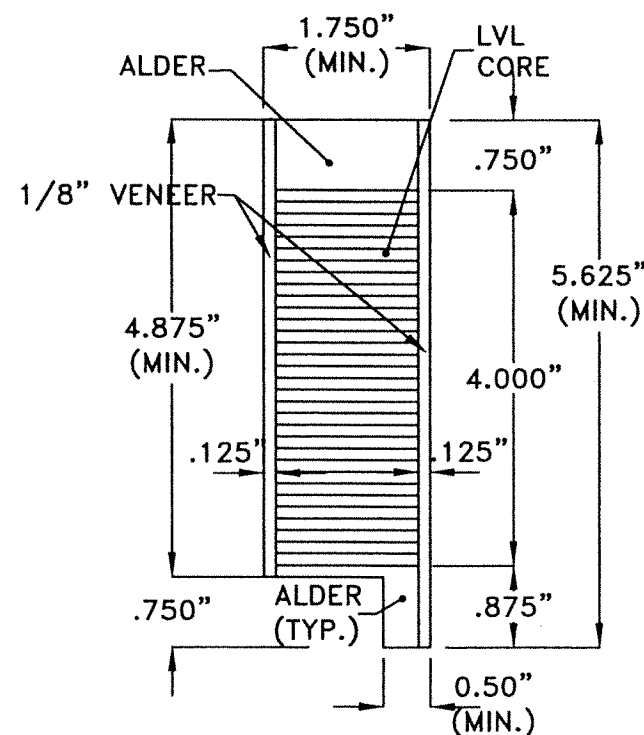
1B2 MEETING STILE W/WOOD PANEL
 W/O ASTRAGAL & W/O BEVEL



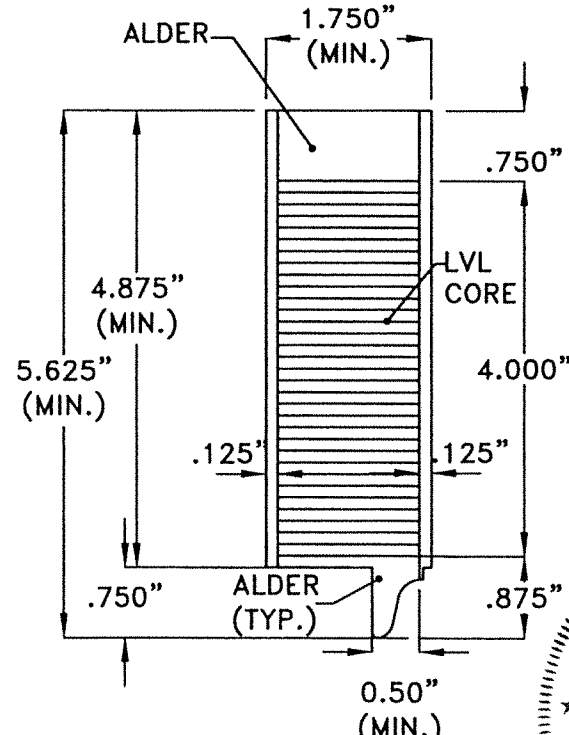
1B3 MEETING STILE W/WOOD
 PANEL W/ ASTRAGAL



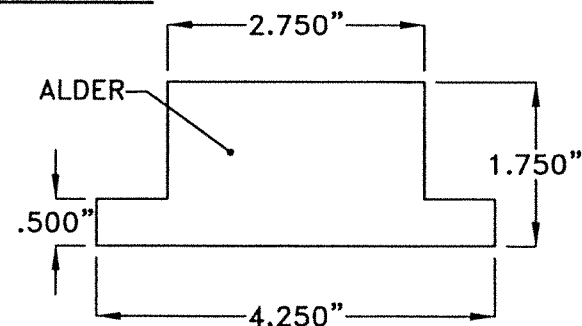
1B4 MEETING STILE W/GLASS PANEL
 W/ ASTRAGAL & W/O BEVEL



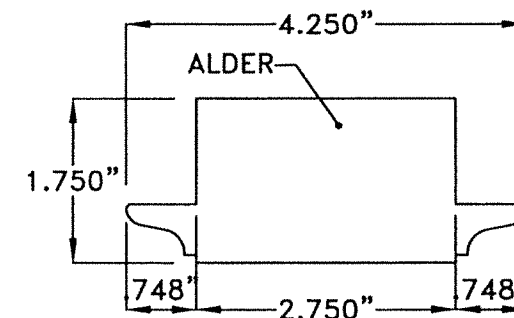
2A TOP RAIL
 FOR SPLIT
 WOOD PANELING



2B TOP RAIL
 FOR SPLIT
 GLASS PANELING



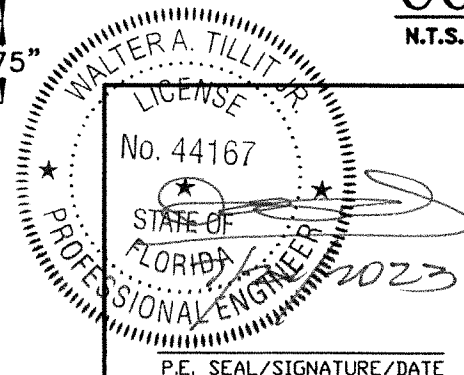
1C NEW INTERIOR STILE
 FOR SPLIT WOOD PANELING



1D NEW INTERIOR STILE
 FOR SPLIT GLASS PANELING

COMPONENTS: CASE II

N.T.S.



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 CA-0006719
 WALTER A. TILLIT Jr., P.E.
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OUT SWING & IN SWING SINGLE & DOUBLE
 LARGE MISSILE IMPACT CUSTOM WOOD DOORS
 GLAZED OR WOOD PANELING, CASES I, II & III

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
 BERTHOUD, CO 80513
 PHONE 970-532-2109

Y.M.
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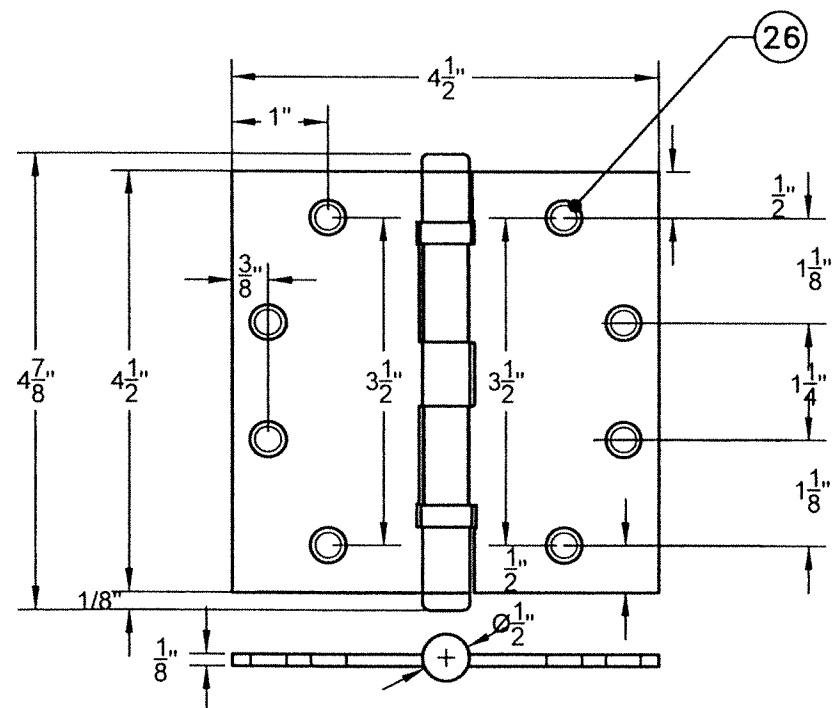
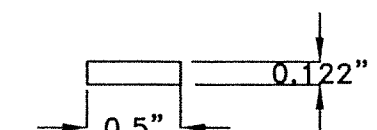
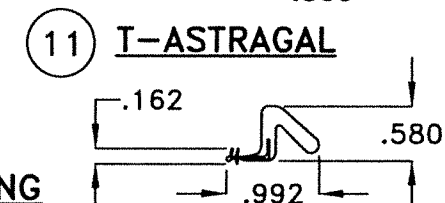
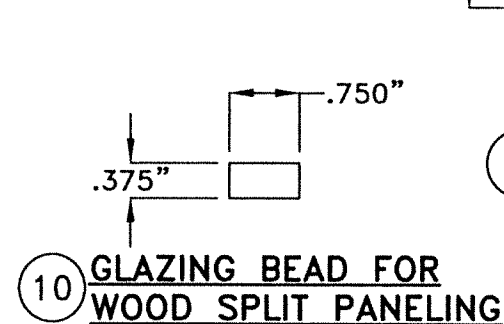
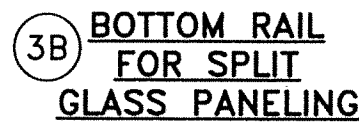
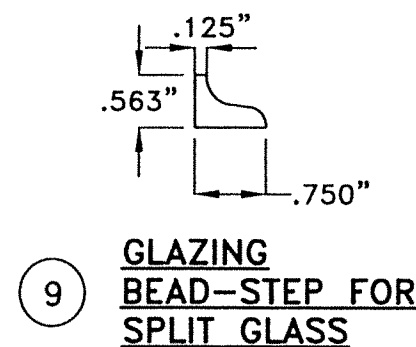
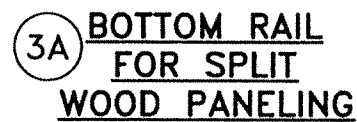
7/21/2023
 DATE:

23-125

DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

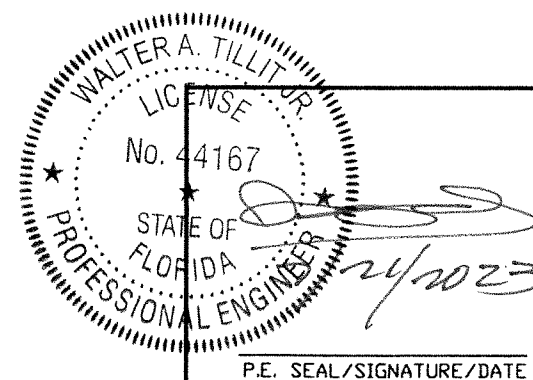
SHEET 42 OF 57



②① BUTT HINGE: SOLID BRASS

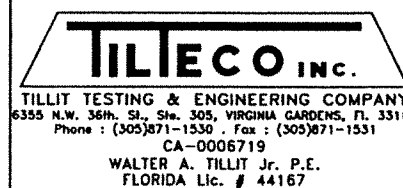
21A BUTT HINGE: STAINLESS STEEL 304 SERIES

COMPONENTS CONTINUATION: CASE II
N.T.S.



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**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

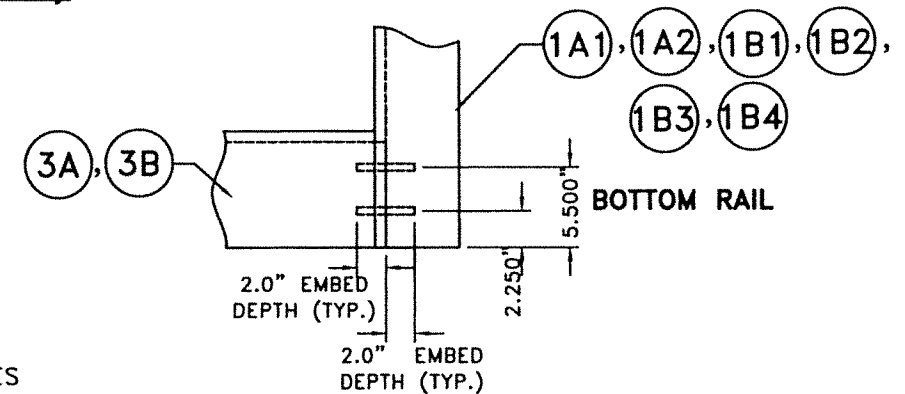
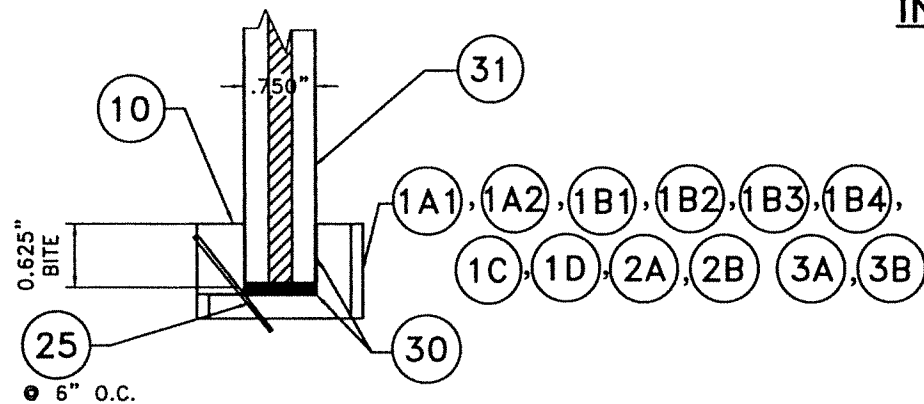
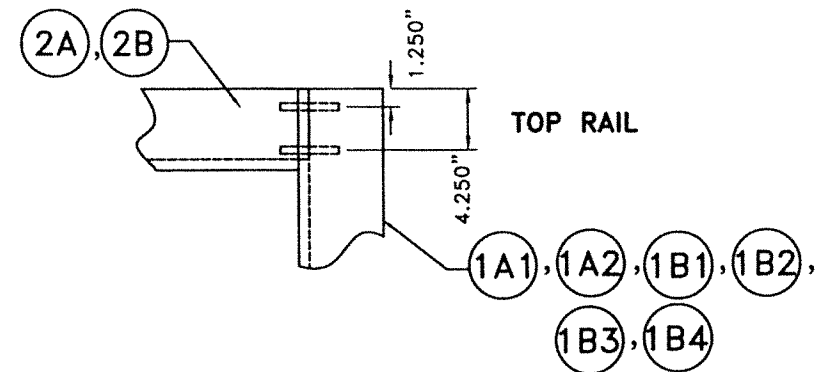
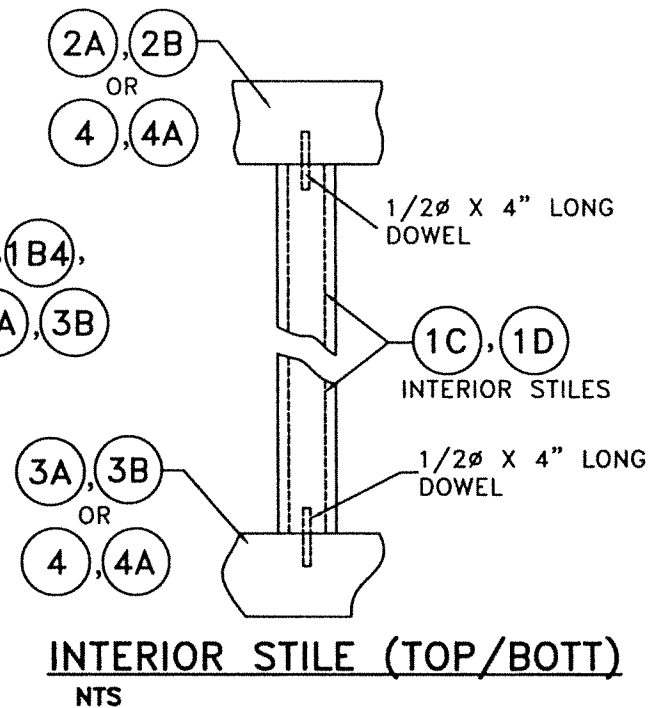
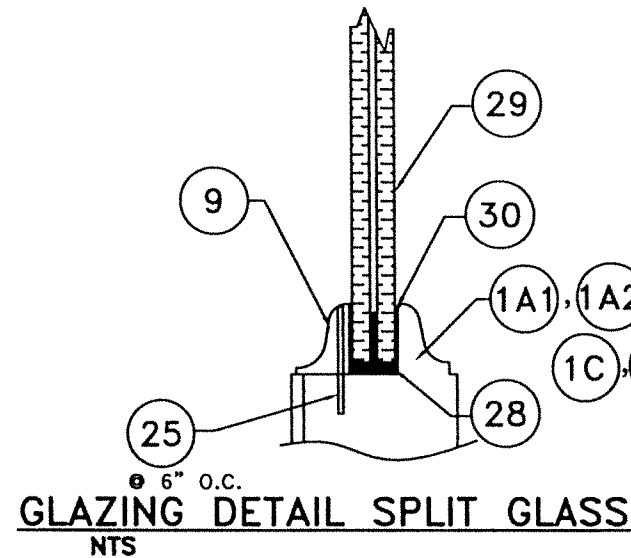
Y.M.
DRAWN BY:

7/21/2023
DATE:

23-125

DRAWING No.

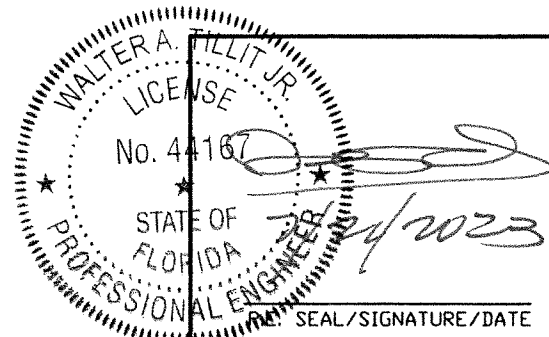
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2	-	-	4	-	-



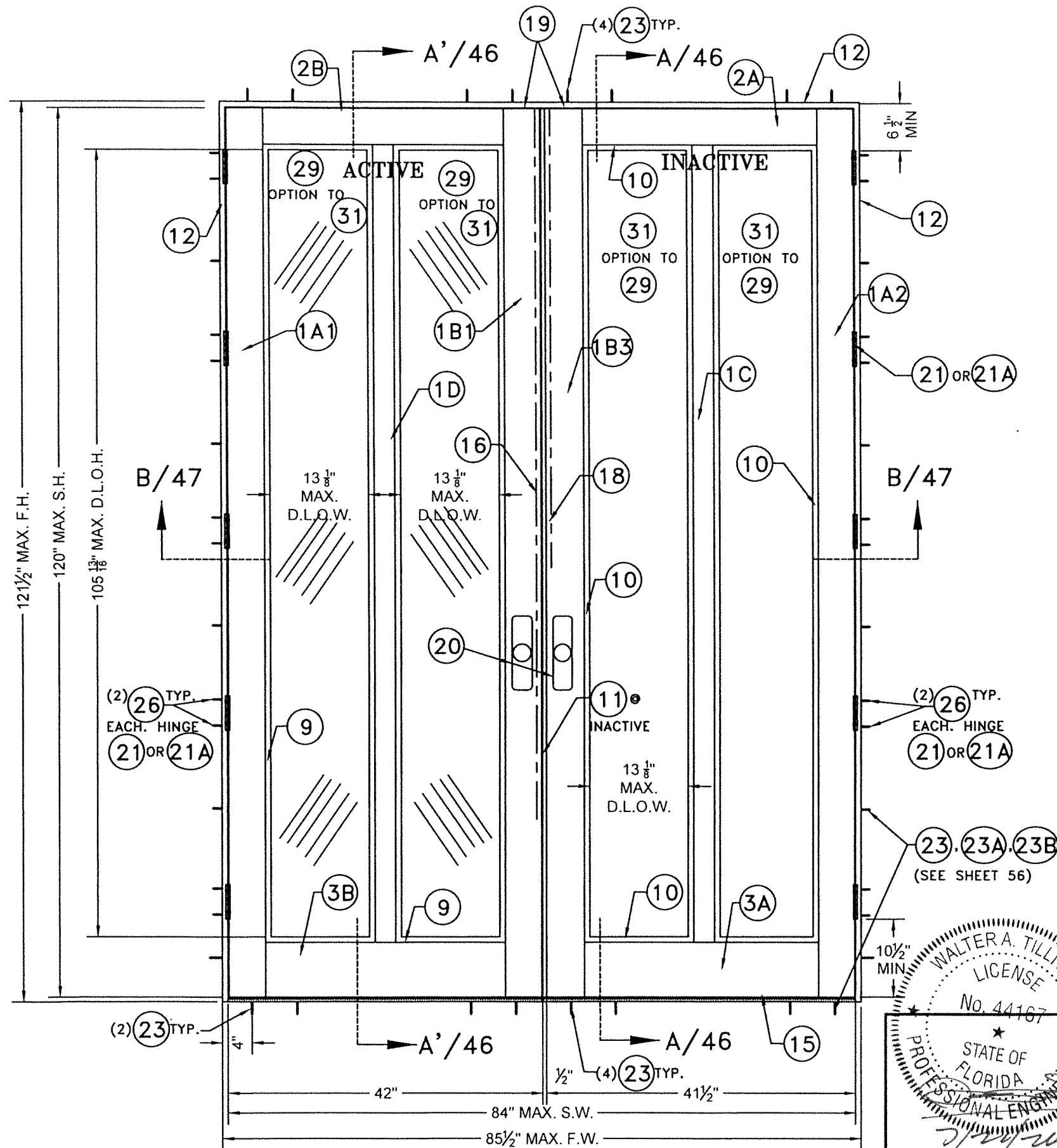
NOTE:
ALL DOWELS (4) ARE 1/2" Ø
AND 4" LENGTH ALL SURFACES
GLUED

GLAZING DETAIL SPLIT WOOD PANELING
NTS

**GLAZING DETAIL FOR GLASS AND WOOD PANELING
CASE II**



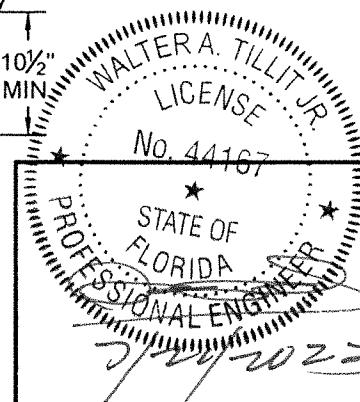
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© 2023 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 - Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-
			Y.M. DRAWN BY: 7/21/2023 DATE: 23-125 DRAWING No. SHEET 44 OF 57		



SPLIT WOOD/GLASS PANEL DOORS
 N.T.S. **OUT-SWING DOUBLE DOOR**
EXTERIOR ELEVATION (SEE GENERAL NOTE 4 ON SHEET 1
CASE II & SEE LIMITATIONS ON SHEET 57)

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



P.E. SEAL/SIGNATURE/DATE

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**OUT SWING & IN SWING SINGLE & DOUBLE
 LARGE MISSILE IMPACT CUSTOM WOOD DOORS
 GLAZED OR WOOD PANELING, CASES I, II & III**
SUN MOUNTAIN CUSTOM DOORS
 140 COMMERCE DRIVE
 BERTHOUD, CO 80513
 PHONE 970-532-2109

Y.M.
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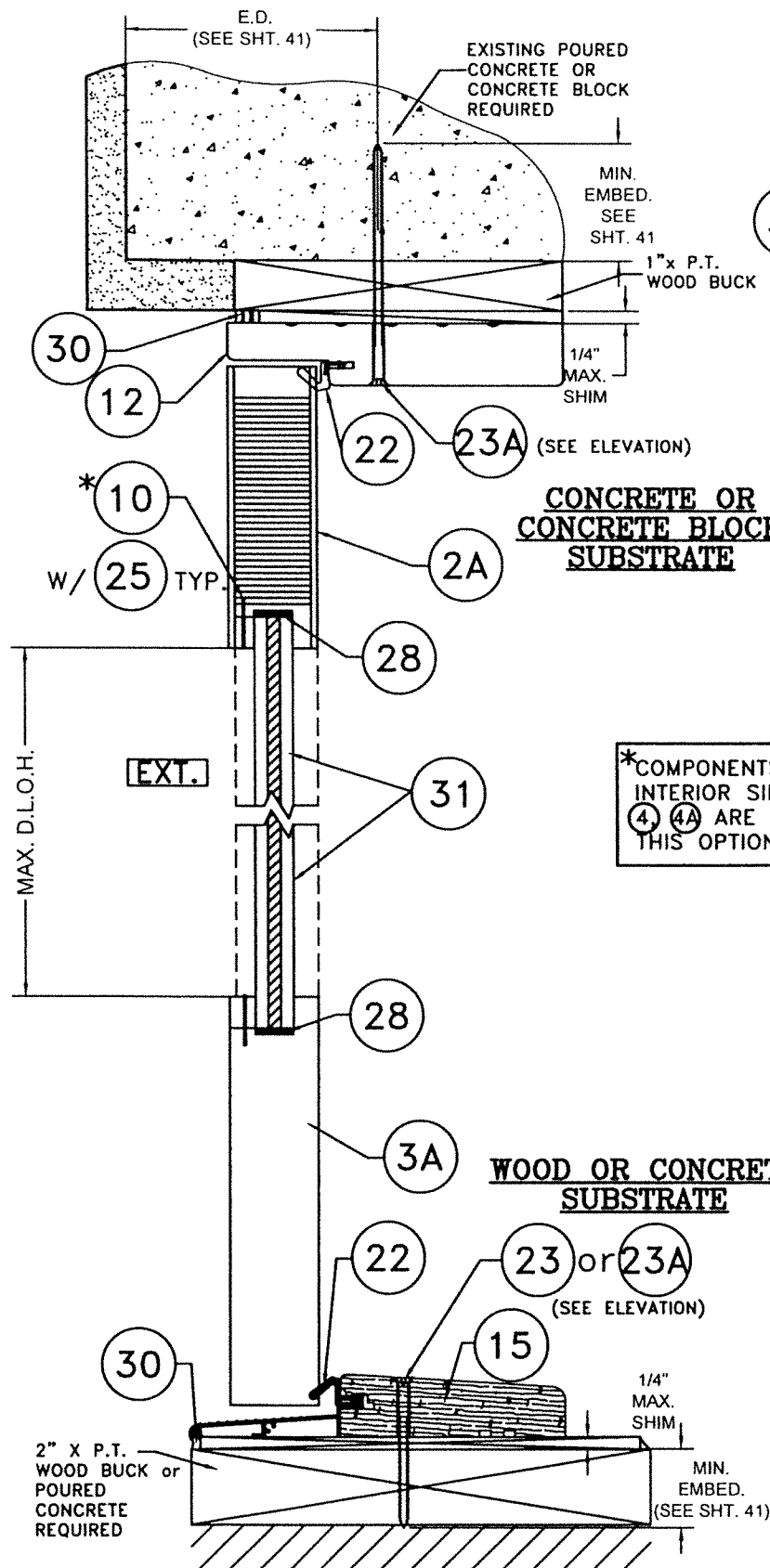
7/21/2023
 DATE:

23-125

DRAWING No.

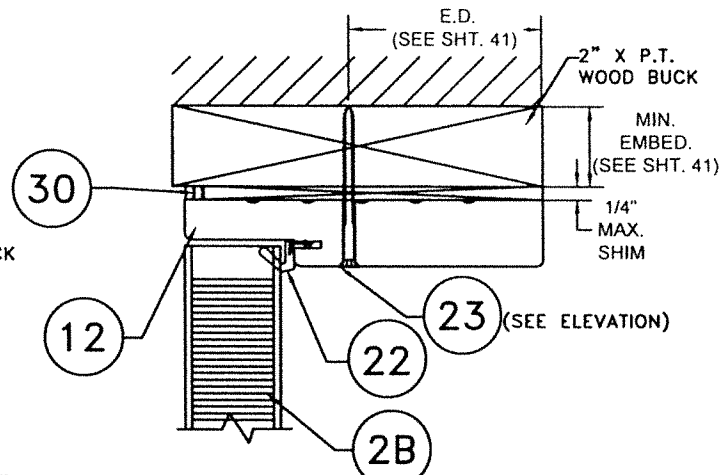
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-

SHEET 45 OF 57



SECTION A-A
N.T.S.
(OUT SWING DOOR)

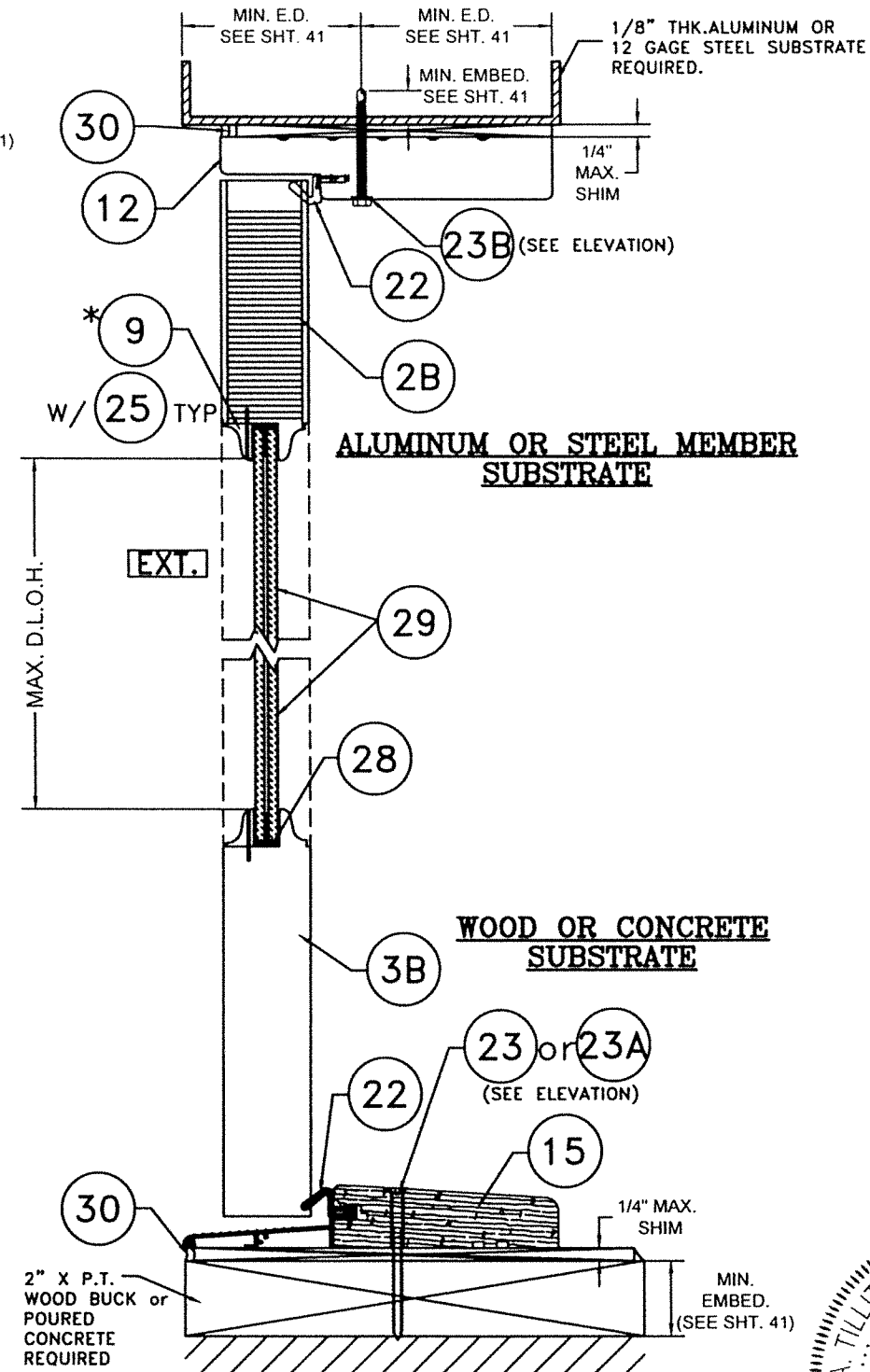
(SEE GENERAL NOTE 4 ON SHEET 1
& SEE LIMITATIONS ON SHEET 57)



WOOD SUBSTRATE

*COMPONENTS ⑨ & ⑩ MAY ALSO BE INSTALLED AT
INTERIOR SIDE OF DOOR, PROVIDED RAILS ②A, ②B, ③A, ③B,
④, ④A ARE ALSO INSTALLED REVERSED TO ALLOW FOR
THIS OPTIONAL INSTALLATION.

**VERTICAL SECTIONS FOR SPLIT WOOD/GLASS
PANEL DOORS DOUBLE DOOR CONNECTION
TO DIFFERENT SUBSTRATES
CASE II**

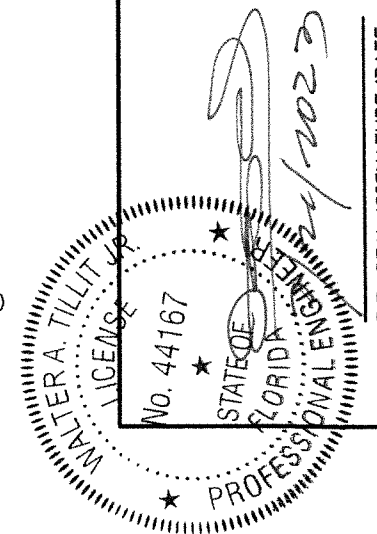


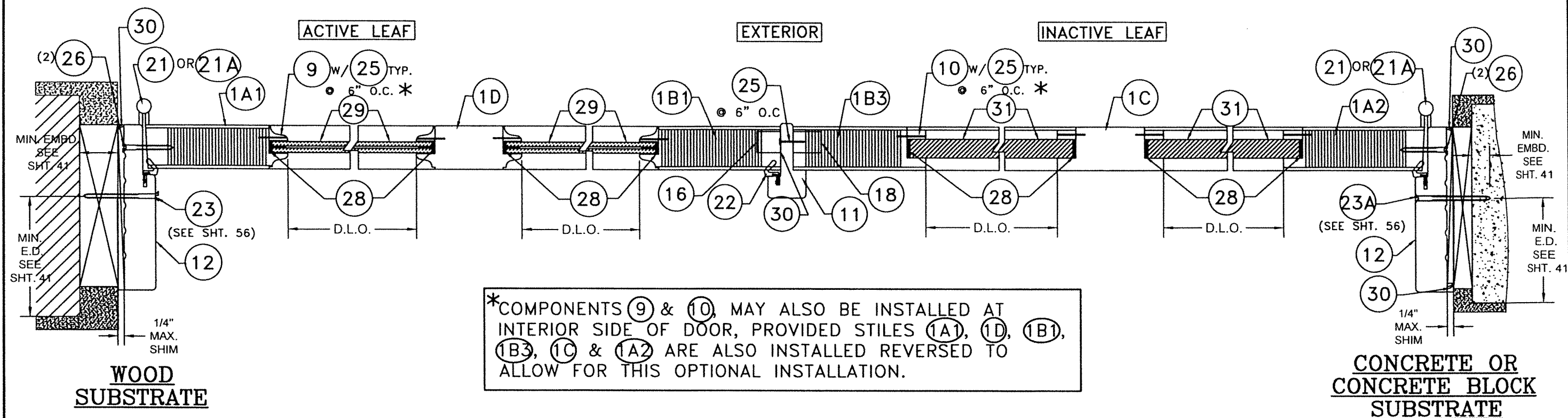
SECTION A'-A'
N.T.S.

(OUT SWING DOOR)

(SEE GENERAL NOTE 4 ON SHEET 1
& SEE LIMITATIONS ON SHEET 57)

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONES)		Y.M. DRAWN BY: 7/21/2023		DATE: 7/21/2023		23-125		DRAWING NO.		SHEET 46 OF 57	
OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III		SUN MOUNTAIN CUSTOM DOORS		140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		DATE		DESCRIPTION		REV. NO.	
TILTECO INC.		TILIT TESTING & ENGINEERING COMPANY		6355 N.W. 36th St., Ste. 305, Virginia Gardens, FL 33166 Phone: (305) 971-1530 Fax: (305) 971-1531		1		2		3	
©2023 TILTECO, INC.		WALTER A. TILIT JR., P.E.		FLORIDA Lic. # 44167		DATE		DESCRIPTION		REV. NO.	
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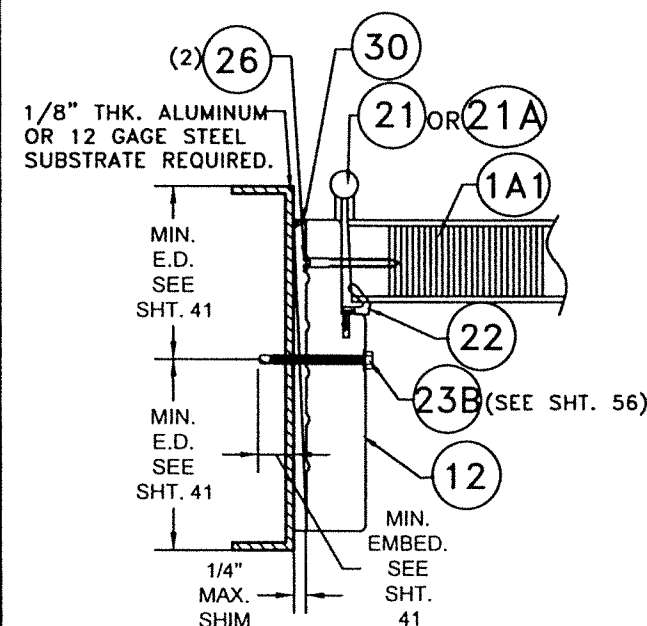




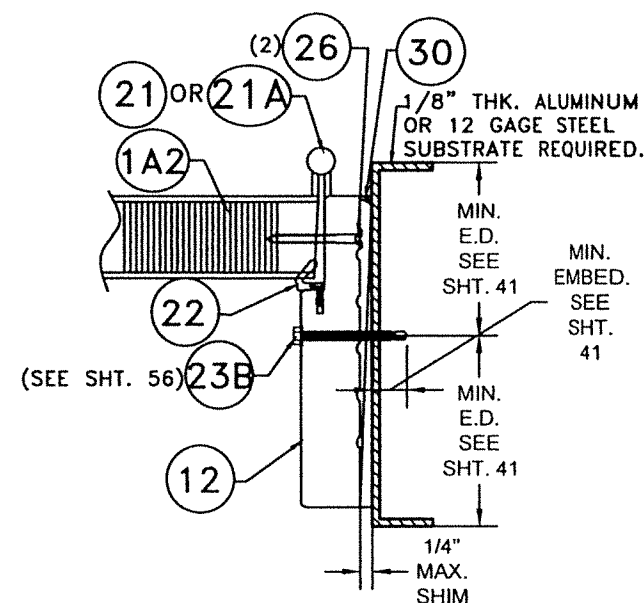
SECTION B-B N.T.S.

(OUT SWING)
(SEE GENERAL NOTE 4 ON SHEET 1
& SEE LIMITATIONS ON SHEET 57)

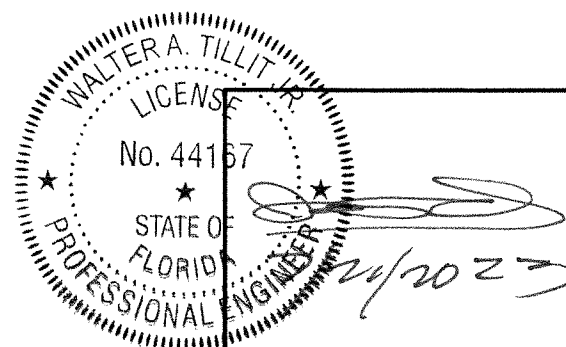
HORIZONTAL SECTION FOR SPLIT WOOD/GLASS PANEL DOORS DOUBLE DOOR CONNECTION TO DIFFERENT SUBSTRATES CASE II



ALUMINUM OR STEEL MEMBER
SUBSTRATE



ALUMINUM OR STEEL MEMBER
SUBSTRATE



P.E. SEAL/SIGNATURE/DATE

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GLAZED OR WOOD PANELING, CASES I, II & III
SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

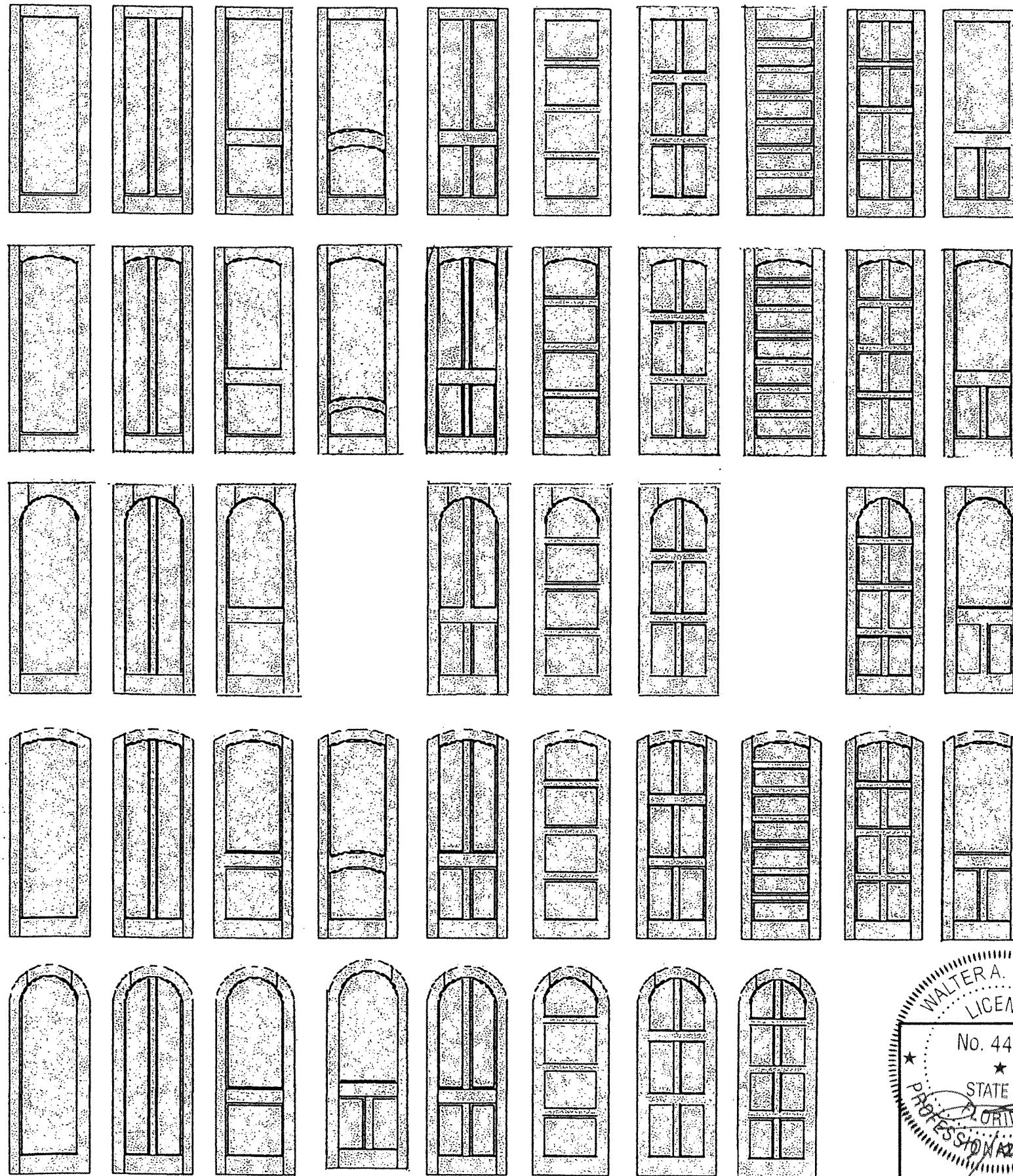
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7/21/2023
DATE:

23-125
DRAWING No.

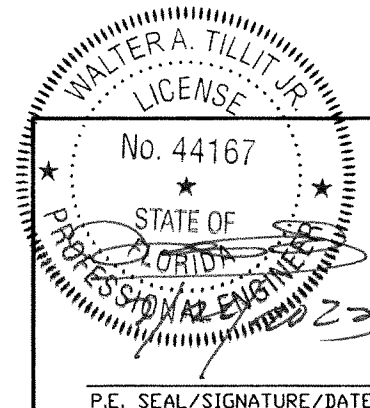
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-

SHEET 47 OF 57



**QUALIFIED MODELS
CASE I & CASE II***

*ALL MODELS MUST CONSIST OF SAME
PROFILES INDICATED AT BILL OF
MATERIALS ON SHEET 2 AND SHEET 41
WITH MAX. DIMENSIONS (WIDTH, HEIGHT)
AS INDICATED ON THIS DRAWING.



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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

Y.M.
DRAWN BY:

7/21/2023
DATE:

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

23-125
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-

SHEET 48 OF 57

BILL OF MATERIALS SOLID/GLASS PANEL FLUSH DOORS: CASE III

COMPONENT #	DESCRIPTION	DIMENSIONS	MATERIAL	REMARKS
(1A)	MINIMUM HINGE STILE W/BEVEL	7.125" X 1.750"	2 1/2" MIN. LSL W/1/4" WOOD VENEER+5/8" MIN. ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44), MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)+4"LVL	SEE DEFINITION BELOW
(1B)	MEETING STILE W/O ASTRAGAL	7.125" X 1.750"	2 1/2" MIN. LSL W/1/4" WOOD VENEER+5/8" MIN. ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44), MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)+4"LVL	SEE DEFINITION BELOW
(1B2)	MEETING STILE W/ ASTRAGAL	6.750" X 1.750"	2 1/2" MIN. LSL W/1/4" WOOD VENEER+1/4" MIN. ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44), MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)+4"LVL	SEE DEFINITION BELOW
(2)	"MINIMUM TOP RAIL"	7.250" X 1.750"	2 1/2" MIN. LSL W/1/4" WOOD VENEER+3/4" MIN. ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44), MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)+4"LVL	SEE DEFINITION BELOW
(3)	"MINIMUM BOTTOM RAIL"	7.250" X 1.750"	2 1/2" MIN. LSL W/1/4" WOOD VENEER+3/4" MIN. ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44), MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)+4"LVL	SEE DEFINITION BELOW
(9)	GLAZING BEAD FOR GLASS	SEE COMPONENT SHT. 50	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
(11)	FIXED ASTRAGAL	3.000" X 1.500"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
(12)	HEAD/JAMB	6.625" X 1.250"	ALDER(0.41),ASH(0.60),BEECH(0.64),BIRCH-YELLOW(0.55),CHERRY(0.50),HICKORY(0.62),MAHOGANY-AFRICAN(0.44),MAPLE-HARD(0.57),MAPLE-SOFT(0.45),MAPLE-WORMY(0.45),OAK-RED(0.63),OAK-WHITE(0.63),SAPELE(0.60),WALNUT(0.55)	-
(14)	IN-SWING THRESHOLD (HYDROSILL)	7.613" X 1.560"	EXTRUDED ALUMINUM + OAK WOOD	SCHLEGEL SERIES 5000
(15)	OUT-SWING THRESHOLD	7.437" X 1.250"	EXTRUDED ALUMINUM + OAK WOOD	COMBO ALUMINUM 410
(16)	5 POINT LOCK SYSTEM	-	STEEL	HOPPE HLS 9000 TONGUE/SHOOTBOLT
(18)	2 POINT LOCK SYSTEM	-	STEEL	HOPPE HLS 9000
(19)	SHOOT BOLT STRIKE PLATE	-	STEEL	HOPPE
(20)	HANDLE	-	METAL, NICKEL FINISHED	AS REQUIRED TO OPERATE LOCK SYSTEM
(21)	BUTT HINGE, BALL BEARING	4 1/2" X 4 1/2" X 1/8"	SOLID BRASS	MANUFACTURED BY DELTANA HARDWARE DSB45B
(21A)	BUTT HINGE, BALL BEARING	4 1/2" X 4 1/2" X 1/8"	STAINLESS STEEL 304 SERIES	MIN: Fy=33 Ksi MINIMUM
(22)	WEATHER STRIP (DOOR SEAL)	0.992" X 0.580"	URETHANE FOAM	MODEL PF588 FEN-SEAL, BY AMWEATHERGUARD
(23)	SELF-TAPPING WOOD SCREW	#12 X 2.5"	GALVANIZED OR STAINLESS STEEL	MINIMUM 1 1/4" PENETRATION INTO WOOD
(23A)	ULTRACON	1/4 Ø	410 STAINLESS STEEL	MIN. 1 3/4" PENETRATION INTO CONCRETE & 1 1/4" INTO CONCRETE BLOCK, MANUFAC. BY ELCO CONST. W/MIN 2 1/2" E.D.
(23B)	TEK SCREW	1/4 Ø-14	CLIMASEAL COATED STEEL OR 401 SERIES S.S. (SEE NOTE 8/1)	MINIMUM PENETRATION EQUAL MIN. SUBSTRATE THICKNESS +3 TREADS (1/8" ALUM. OR STEEL) W/MIN 1/2" E.D MANUF. BY ITW/BUILDDEX
(25)	1 3/16" LONG BRAD NAIL	18 GA DIAMETER	GALVANIZED STEEL	1" FROM CORNERS AND MIN. 6" O.C
(26)	WOOD SCREW, HINGE	#12	GALVANIZED OR STAINLESS STEEL	MINIMUM 3/4" PENETRATION INTO FRAME
(27)	STRUCTURAL SILICONE DOW CORNING 995	-	SILICONE	ALL AROUND GLASS
(28)	SETTING BLOCK FOR GLASS	0.122" x 0.5"	E.P.D.M. WITH 70.0 DUROMETER	MANUFACTURER ULTRAFAB
(29)	LAMINATED GLASS	SEE ELEVATIONS	3/16" HEAT STRENGTHENED + 0.075 THICK GLASS INTERLAYER + 3/16" HEAT STRENGTHENED	INTERLAYER MANUFACTURED BY OLD CASTLE BUILDING ENVELOPE
(30)	SILICONE DOW CORNING 795	-	SILICONE	ALL AROUND FRAME
(33)	KERF INLAY	1/8" THICK X 4"	3105-H14 ALUMINUM	USE AT KERF, CONNECTED TO DOOR W/3M VHB DOUBLE SIDED TAPE.

DEFINITIONS:

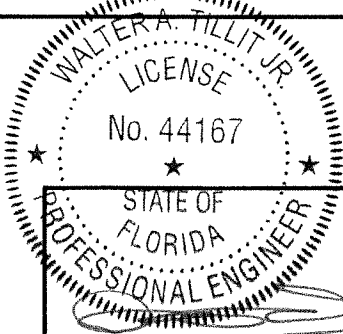
LVL CORE: LAMINATED VENEER LUMBER, WHERE LUMBER IS DOUGLAS FIR (0.47) OR LARGER SPECIFIC GRAVITY WOOD, ADHERED W/PROPRIETARY ADHESIVE.

1/4" THICK VENEER: ALDER (0.41) OR LARGER SPECIFIC GRAVITY WOOD.

LSL CORE: LAMINATED STRAND LUMBER, LUMBER IS ASPEN (0.39) OR LARGER SPECIFIC GRAVITY WOOD, ADHERED W/ PROPRIETARY ADHESIVE.

"MIN. STILE": MINIMUM ALLOWED LONG EDGE OF FLUSH DOOR PANEL REQUIRED FOR SOLID DOORS OR WHEN ANY GLAZING IS INSTALLED @ NOT A SEPARATE PIECE BUT PART OF THE DOOR SLAB AT LONG EDGES.

"MIN. RAIL": TOP & BOTTOM IS THE MINIMUM ALLOWED SHORT EDGE OF FLUSH DOOR PANEL REQUIRED FOR SOLID DOORS OR WHEN ANY GLAZING IS INSTALLED (TOP & BOTTOM) @ NOT A SEPARATE PIECE BUT PART OF THE DOOR SLAB AT SHORT EDGE.



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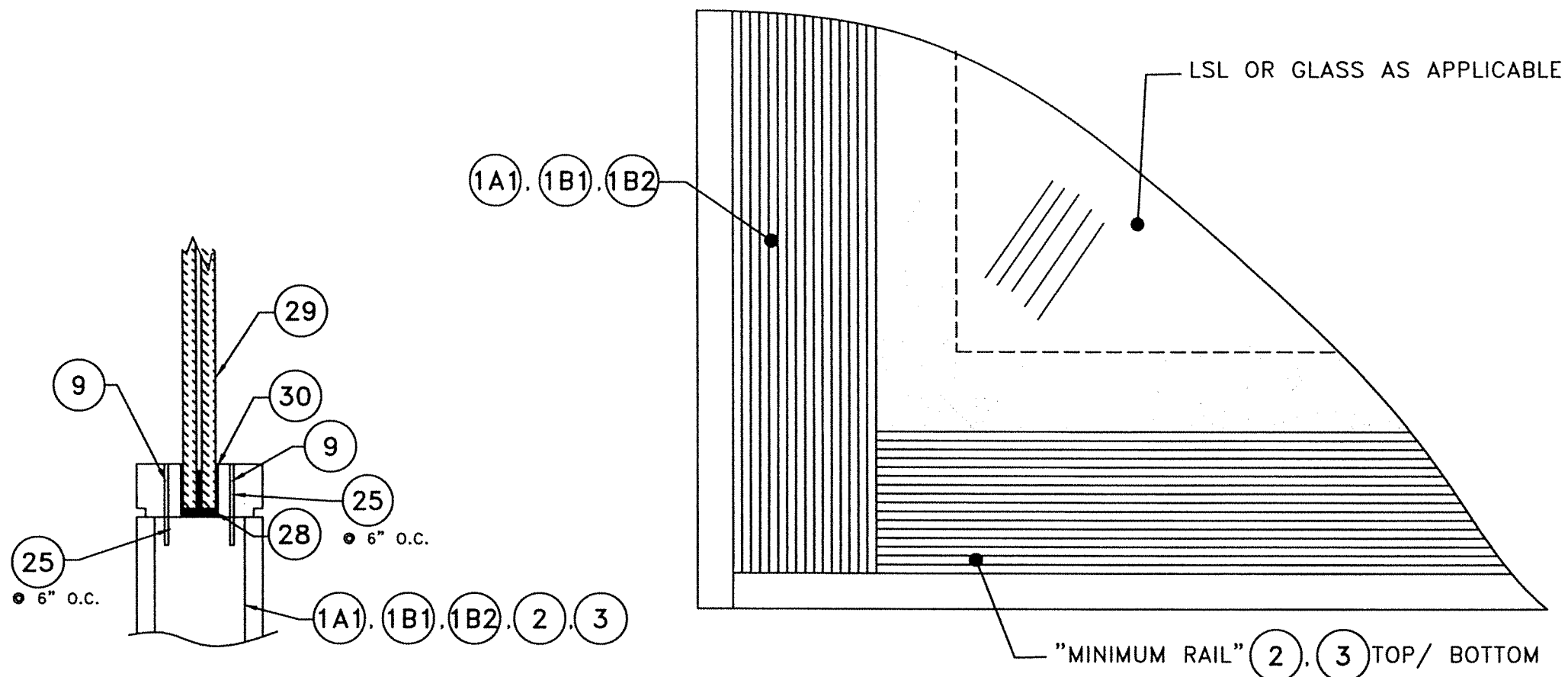
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
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CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
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DRAWING No.
SHEET 49 OF 57



GLAZING DETAIL
NTS

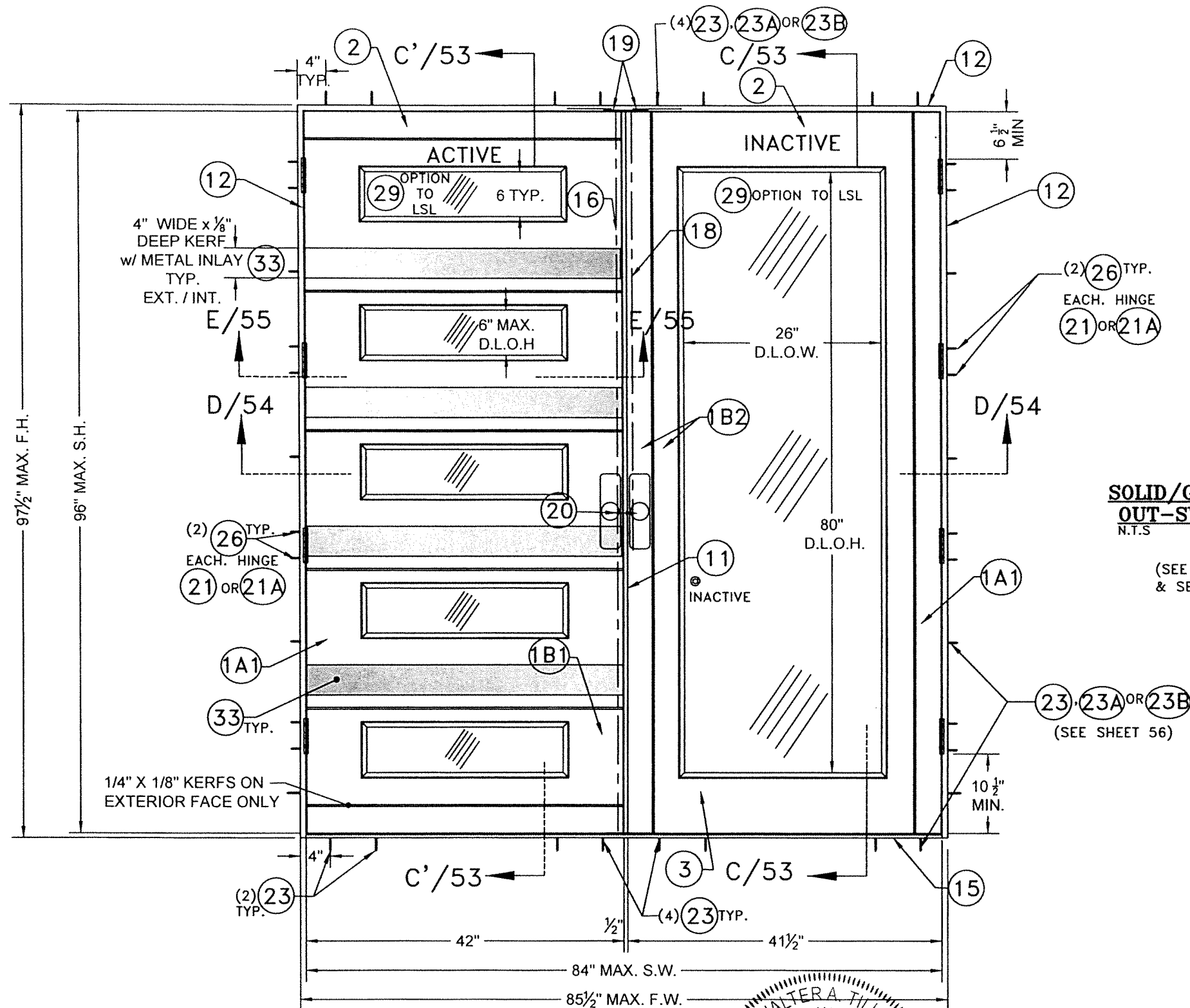
"MIN. STILE" AND "MIN. RAIL" JOINT DETAIL
AT FLUSH DOOR (ELEVATION)
NTS

GLAZING DETAIL AND "MIN. STILE" & "MIN. RAIL" JOINT DETAIL
CASE III

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

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© 2023 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			OUT SWING & IN SWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS GLAZED OR WOOD PANELING, CASES I, II & III SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
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SHEET 51 OF 57



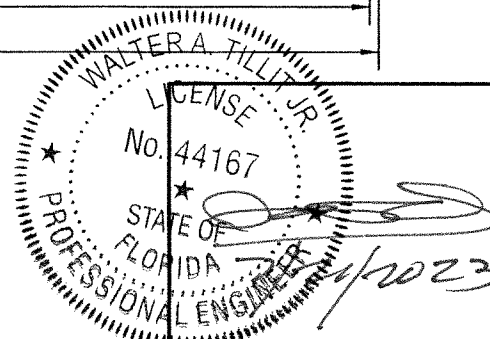
**SOLID/GLASS PANEL FLUSH DOORS
OUT-SWING EXTERIOR ELEVATION
N.T.S**

CASE III

(SEE GENERAL NOTE 4 ON SHEET 1
& SEE LIMITATIONS ON SHEET 57)

PREFIX LEGEND:

- F.W. : MAX. FRAME WIDTH
- F.H. : MAX. FRAME HEIGHT
- S.W. : MAX. SASH WIDTH
- S.H. : MAX. SASH HEIGHT
- D.L.O.W. : MAX. DAYLIGHT OPENING WIDTH
- D.L.O.H. : MAX. DAYLIGHT OPENING HEIGHT



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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

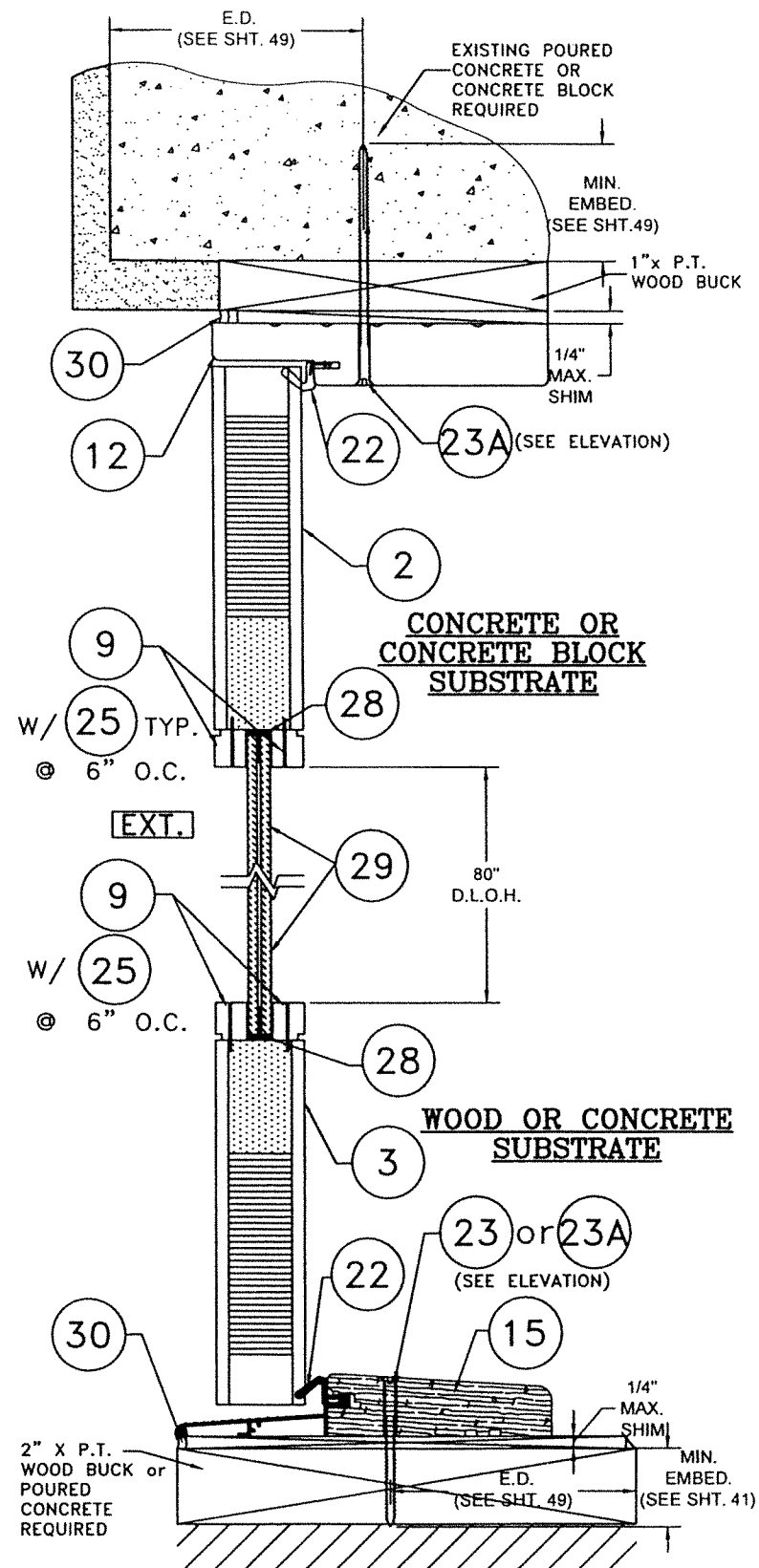
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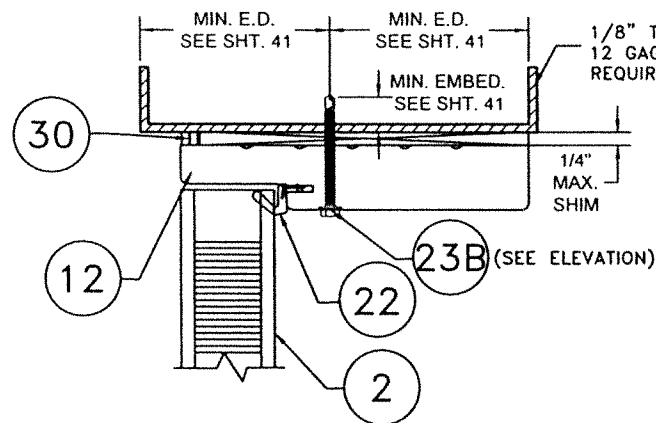
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SHEET 52 OF 57

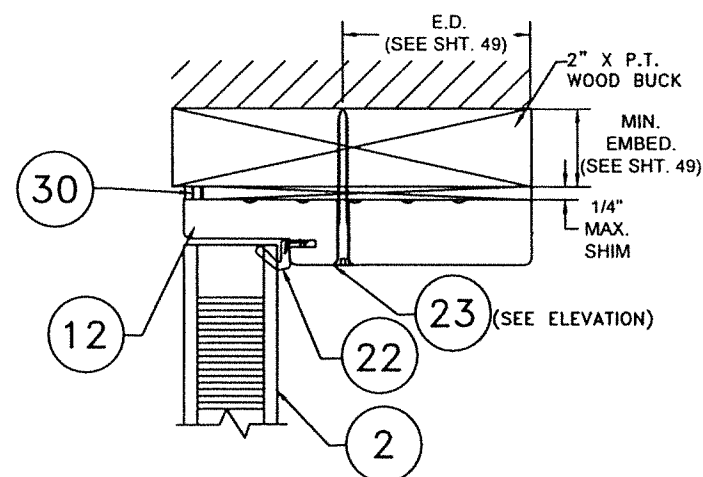


SECTION C-C
(OUT SWING DOOR)

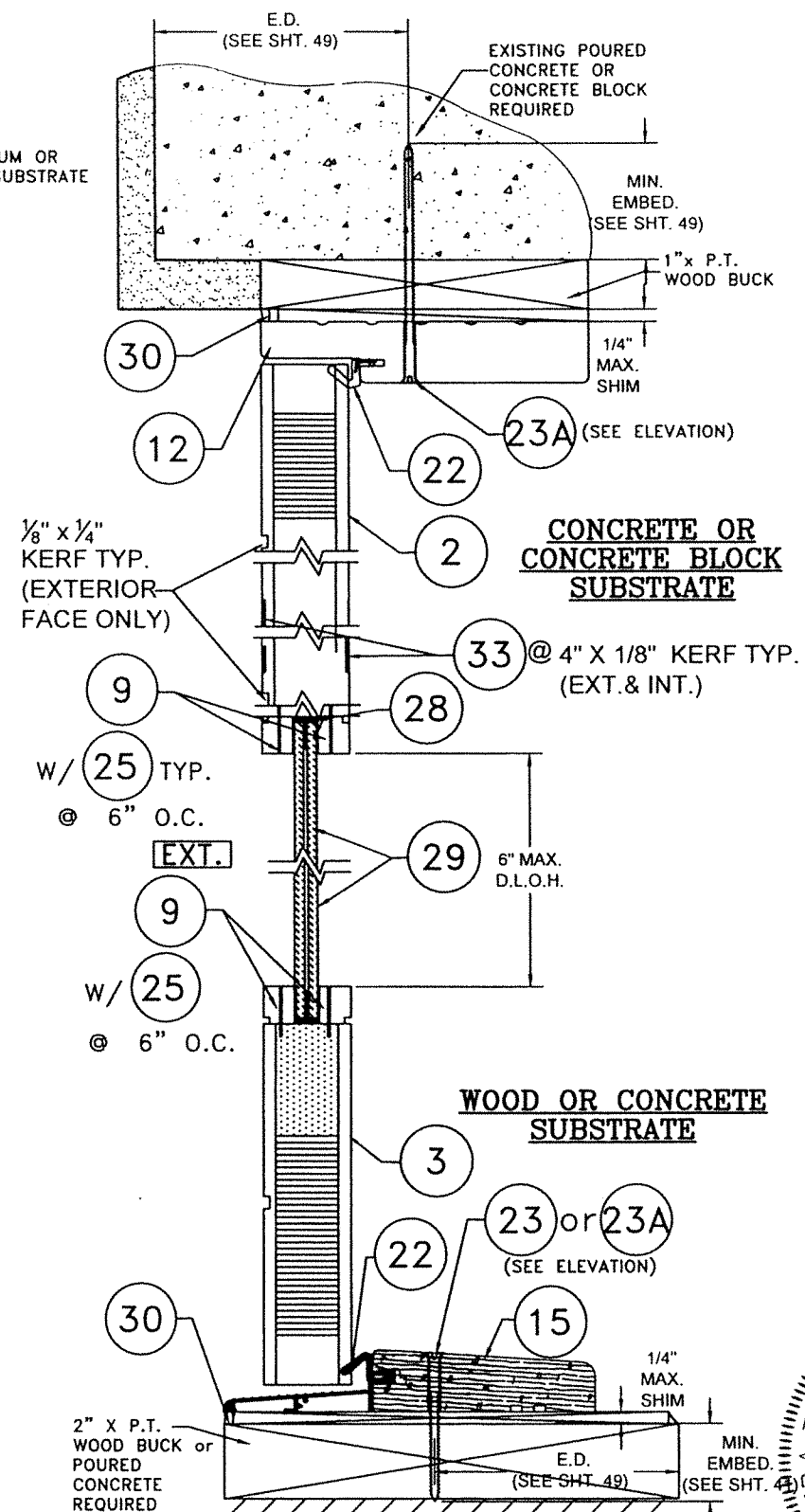
N.T.S.
(SEE GENERAL NOTE 4 ON SHEET 1
& SEE LIMITATIONS ON SHEET 57)



ALUMINUM OR STEEL
MEMBER SUBSTRATE



WOOD SUBSTRATE



SECTION C'-C'
(OUT SWING DOOR)

N.T.S.
(SEE GENERAL NOTE 4 ON SHEET 1
& SEE LIMITATIONS ON SHEET 57)

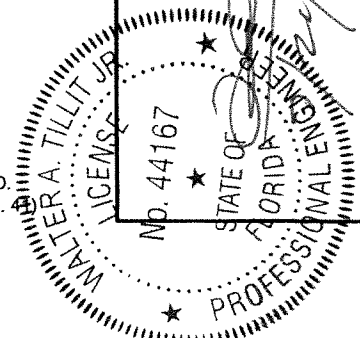
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OUT SWING & IN SWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD DOORS
GLAZED OR WOOD PANELING, CASES I, II & III

SUN MOUNTAIN CUSTOM DOORS

140 COMMERCE DRIVE
BERTHOUD, CO 80513
PHONE 970-532-2109

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CA-0006719
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FLORIDA Lic. # 44167



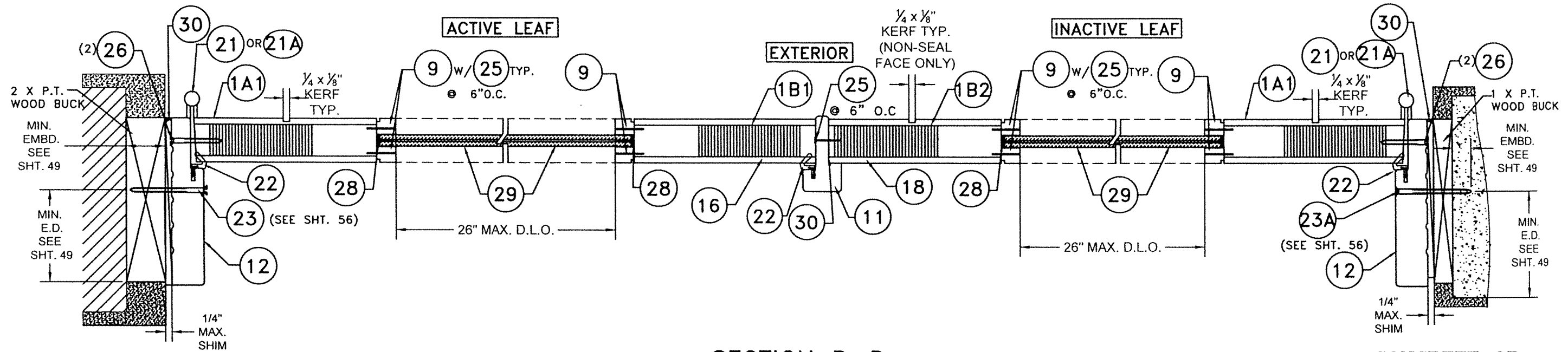
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23-125
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SHEET 53 OF 57



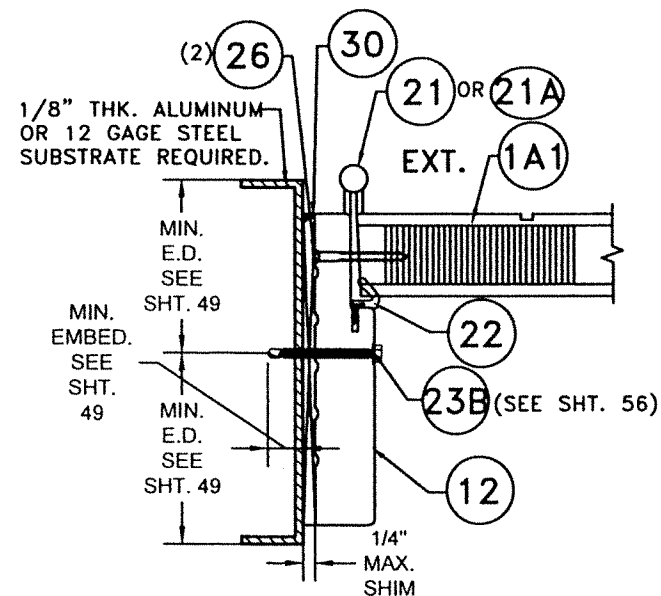
SECTION D-D

N.T.S

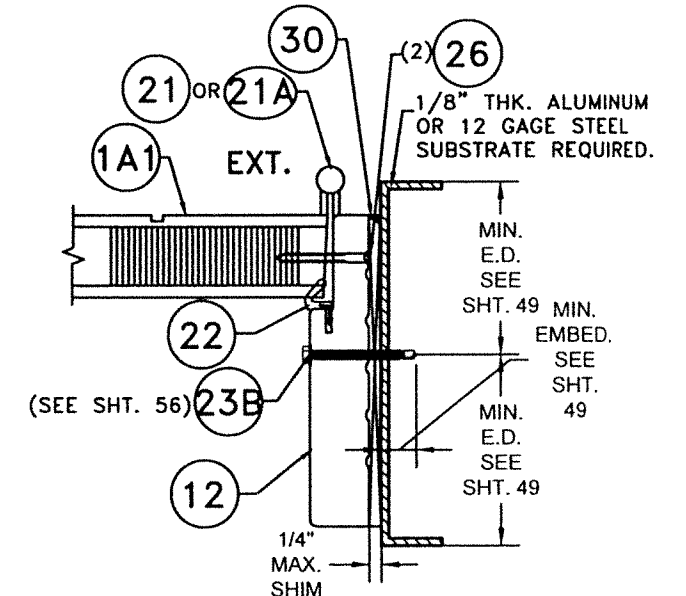
(OUT SWING)

(SEE GENERAL NOTE 4 ON SHEET 1
& SEE LIMITATIONS ON SHEET 57)

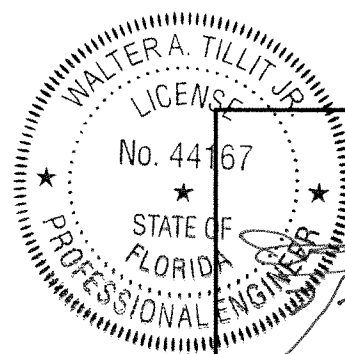
HORIZONTAL SECTION FOR FLUSH DOORS DOUBLE DOOR CONNECTION TO DIFFERENT SUBSTRATES CASE III



ALUMINUM OR STEEL MEMBER SUBSTRATE



ALUMINUM OR STEEL MEMBER SUBSTRATE



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CA-0006719
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FLORIDA Lic. # 44167

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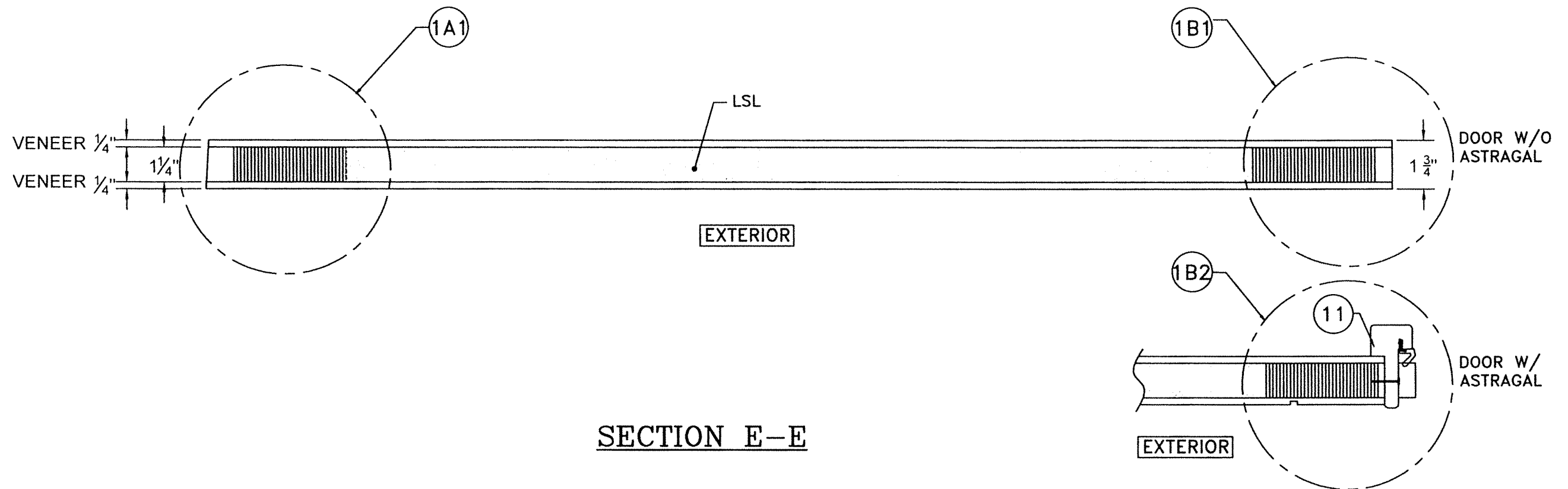
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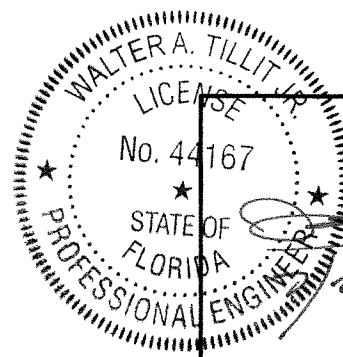
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1	OLD 22-058	7/21/2023	3	-	-
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SECTION E-E
FLUSH DOORS COMPOSITION
CASE III



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**OUT SWING & IN SWING SINGLE & DOUBLE
 LARGE MISSILE IMPACT CUSTOM WOOD DOORS
 GLAZED OR WOOD PANELING, CASES I, II & III**

SUN MOUNTAIN CUSTOM DOORS
 140 COMMERCE DRIVE
 BERTHOUD, CO 80513
 PHONE 970-532-2109

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7/21/2023
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23-125
DRAWING No.

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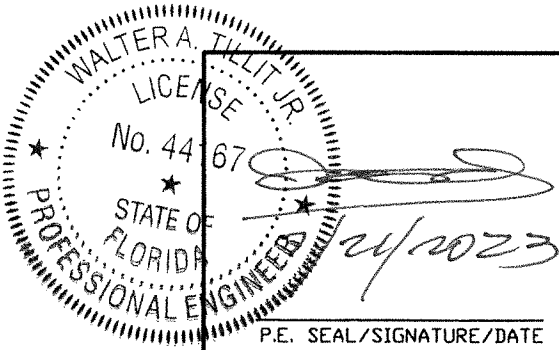
SHEET 55 OF 57

MAX. ANCHOR TYPE (23), (23A) & (23B) ***SPACING SCHEDULE @ JAMBS
HEADER* & SILL* FOR A GIVEN SUBSTRATE FOR
CASE I , CASE II & CASE III INSTALLATIONS

MAX. A.S.D. PRESSURE RATING (psf)	" S " = ANCHOR SPACING			
	CONCRETE Min. f'c= 3ksi	CONCRETE BLOCK ASTM C-90	WOOD (Min. G=0.55) 2 x MIN. REQ'D.	1/8" STEEL OR ALUMINUM **
50.0	9"	9"	6"	9"
60.0	7"	7"	5"	9"
70.0	7"	7"	5"	9"

NOTES:

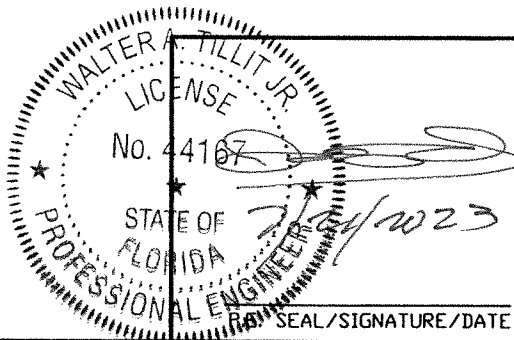
- * "SILL" APPLIES ONLY TO ANCHOR INSTALLATION AT TRANSOMS AND SIDELITES.
"HEADER" APPLIES ONLY TO ANCHOR INSTALLATION AT DOORS WITH EYEBROWS, ARCHED DOORS.,TRANSOMS & SIDELITES,
SEE DOOR ELEVATIONS FOR SPECIAL ANCHOR LAYOUT AT SILL AND HEAD AT ALL DOORS AS APPLICABLE.
- ** SUBSTRATE MATERIAL CORRESPONDING TO ALUMINUM & STEEL SHALL NOT BE USED AS SUBSTRATE AT SILL OF DOORS OR
AT SILL OF SIDELITES.
- *** SEE ANCHOR SPECS AT BILL OF MATERIALS ON SHEETS 2 , 41 & 49, RESPECTIVELY.



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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			SUN MOUNTAIN CUSTOM DOORS 140 COMMERCE DRIVE BERTHOUD, CO 80513 PHONE 970-532-2109		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-
DRAWING No.					23-125
SHEET 56 OF 57					

LIMITATIONS FOR USE & COMBINATION OF INSTALLATION
CASES I , II & III

1. MAXIMUM DESIGN PRESSURE RATING FOR CASES I , II & III IS $\pm$ 70 psf.
2. MAXIMUM DOOR, SIDELITE & TRANSOM DIMENSIONS FOR CASES I , II & III SHALL BE AS INDICATED ON THIS DRAWING (SEE SHEETS 23 , 24).
3. ALL DOOR COMPONENTS FOR DOOR INSTALLATION CASES I & II MAY BE COMBINED AS NEEDED. VALID FOR DOUBLE & SINGLE DOORS. SEE NOTE 5 BELOW. SEE SHEET 48 FOR QUALIFIED MODELS.
4. COMPONENTS FOR CASE III DOOR INSTALLATION ARE UNIQUE TO FLUSH DOORS. DOORS MAY BE SINGLE OR DOUBLE. SEE NOTES 5 AND BELOW.
5. SINGLE & DOUBLE DOORS INSTALLED PER CASES I , II & III MAY BE OUT-SWING OR IN-SWING TYPE DOORS. USE THRESHOLD COMPONENTS ⑮ & ⑭ FOR THESE APPLICATIONS, AS APPLICABLE. USE CASE I ELEVATIONS, AND SECTIONS FOR CASE II FOR IN-SWING DOORS CONFIGURATION & DETAILS.
6. INTERIOR STILE (COMPONENTS ①C & ①D PER CASE II, MAY BE INSTALLED FULL HEIGHT FROM TOP TO BOTTOM RAILS, OR FROM EITHER TOP OR BOTTOM RAIL TO MID RAILS (COMPONENTS ④ & ④A PER CASE I). CONNECTION TOP & BOTTOM OF INTERIOR STILE, COMPONENTS ①C & ①D MUST BE PER DETAIL ON SHEET 44.
7. LOCATION OF ACTIVE & INACTIVE DOOR LEAFS AT DOUBLE DOORS MAY BE AS NEEDED (LEFT OR RIGHT FOR ACTIVE/INACTIVE DOOR). HOWEVER, 5 POINT LOCK ⑮ SHALL BE ALWAYS POSITIONED AT ACTIVE DOOR & 2 POINT LOCK ⑱ AT INACTIVE DOOR. VALID FOR OUT-SWING & IN-SWING DOORS. USE 5 POINT LOCK ⑮ ALWAYS AT SINGLE DOORS.
8. FOR CASE III INSTALLATIONS:
 - 8.1 MAXIMUM FULL SIZE GLASS PANEL SIZE SHALL BE AS INDICATED ON SHEET 52 (26" X 80" D.L.O).
 - 8.2 MAXIMUM SIZE FOR INDIVIDUAL GLASS LITES PER SHEET 52 IS 6" HIGH X 26" WIDE.
 - 8.3 MAXIMUM AMOUNT OF INDIVIDUAL GLASS LITES ON DOOR LEAF IS 5, AND MUST BE SPACED AT MAX. 18.5" O.C W/ MIN. 8" EDGE DISTANCE TO VERTICAL OR HORIZONTAL EDGE OF DOOR LEAFS.
 - 8.4 EXTERIOR DECORATIVE GROOVE KERFS (VERTICAL OR HORIZONTAL) AT DOOR LEAF MUST BE MAX. 1/4" WIDE X 1/8" MAX. DEEP, AND SHALL BE LOCATED AT MIN 3 5/8" FROM ANY DOOR LEAF EDGE, SPACED AT 13.5" O.C MINIMUM SPACING & 19 3/4" O.C. MAX. SPACING, AND AT A MINIMUM 2 3/8" DISTANCE FROM ANY INDIVIDUAL GLASS LITE EDGE.
 - 8.5 EXTERIOR DECORATIVE WIDE KERF W/ALUMINUM INLAY (HORIZONTAL) AT EACH DOOR LEAF MUST BE 4" MAX. WIDE X 1/8" MAX. DEEP, AND SHALL BE LOCATED AT MIN. 17" FROM ANY DOOR LEAF HORIZONTAL EDGE, SPACED AT 18 1/2" MINIMUM SPACING, AND AT A MINIMUM 2 1/4" DISTANCE FROM ANY INDIVIDUAL GLASS LITE EDGE.
 - 8.6 FLUSH DOORS MAY BE SINGLE OR DOUBLE, OUT-SWING OR IN-SWING. DOOR LOCKS MUST FOLLOW LIMITATIONS FOR NOTE 7 ACTIVE.
 - 8.7 SINGLE OR DOUBLE FLUSH DOORS MAY BE ENTIRELY SOLID, AS PER SECTION E-E, SHEET 55, & CORNERS DETAIL ON SHEET 51.



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 22-058	7/21/2023	3	-	-
2	-	-	4	-	-
					DRAWING No. 23-125 SHEET 57 OF 57