

REAL WOODS LLC

2 1/4" IMPACT OUTSWING GLAZED & OPAQUE

SINGLE DOOR WITH/WO SIDELITES & TRANSOMS

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURES STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # NCTL 210-3581-1, DATED 02/11/09 AND ASSOCIATED LABORATORY DRAWINGS.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
4. THIS PRODUCT IS NOT REQUIRED TO USE AN IMPACT PROTECTIVE SYSTEM THAT COMPLIES WITH THE FLORIDA BUILDING CODE IN THE WIND BORNE REGION OR THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
5. DOOR FRAME AND PANE MATERIAL: WOOD.

5.1 MINIMUM SPECIFIC GRAVITY OF 0.44.

5.2 WOOD SHALL BE PROTECTED IN COMPLIANCE WITH THE CURRENT EDITION OF THE FBC.
6. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04e1.

6.1 GLAZING INTERLAYER: 0.090" SENTRYGLAS BY KURARAY AMERICA PER CURRENTLY APPROVED MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
7. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL
8. WHEN UTILIZING MULLION CLIP NO. 2, THE SIDELITE AND TRANSOM CAN BE FACTORY ASSEMBLED.
9. SETTING BLOCKS (IF USED) MATERIAL SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHORIS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED ARE THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. ANCHORS ARE TO MATCH TYPE, SIZE, AND EMBEDMENT OF THOSE SHOWN HEREIN FOR RESPECTIVE SUBSTRATES.
3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
4. FOR INSTALLATION INTO WOOD FRAMING, USE #10 WOOD SCREWS, EXCEPT FOR MULLION CLIPS WITH SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT. MINIMUM EDGE DISTANCE IS 3/4 INCHES. USE #12 WOOD SCREWS FOR MULLION CLIPS W/ 1-1/2" EMBEDMENT & MINIMUM OF 7/8 INCH EDGE DISTANCE.
5. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE 1/4 INCH ITW TAPCONS (ADVANCED THREADFORM), EXCEPT MULLION CLIPS, WITH SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT (1 INCH MIN. EMBEDMENT IN MASONRY) . MINIMUM EDGE DISTANCE IS 2-1/2 INCHES. MINIMUM ANCHOR SEPARATION IS 4 INCHES. USE 1/4" POWERS TAPPERS FOR MULLION CLIPS W/ 2-1/2" MINIMUM EDGE DISTANCE AND 1-11/16" MINIMUM O.C. DISTANCE & 1-1/2" MINIMUM EMBEDMENT AT SILL & 1 3/8 INCH MINIMUM EMBEDMENT AT HEAD AND JAMBS.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
7. FOR CONCRETE BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
8. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - PRESSURE TREATED (PT) SOUTHERN YELLOW PINE. MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 psi

C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT.
9. THE STRUCTURAL PERFORMANCE TEST REPORT INDICATES THAT HINGE FRAME SCREWS WERE NOT REPLACED WITH ADDITIONAL INSTALLATION ANCHORS SCREWS DURING PRODUCT TESTING. HINGE INSTALLATION USING TESTED HINGE SCREWS IS QUALIFIED BY SATISFACTORY TEST PERFORMANCE.
10. HINGES: 4" X 4"

LOCKS: BALDWIN 6000 SERIES MORTISE LOCKS

EMTEK 3300 SERIES MORTISE LOCKS

EMTEK 4500 CYLINDRICAL PASS LOCK

W/ EMTEK 8400 SERIES DEADBOLT

GU EUROPA R2 MULTI-POINT

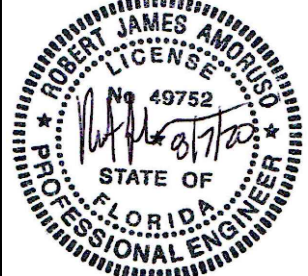
FLUSH BOLT: DELTANA 18EFB OR IVE'S 458

EXTENSION FLUSH BOLT

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DESIGN PRESSURE RATING (PSF)		IMPACT RATING
WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	LARGE MISSILE IMPACT
±55.0	±55.0	

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



PROJECT #419-0909

Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

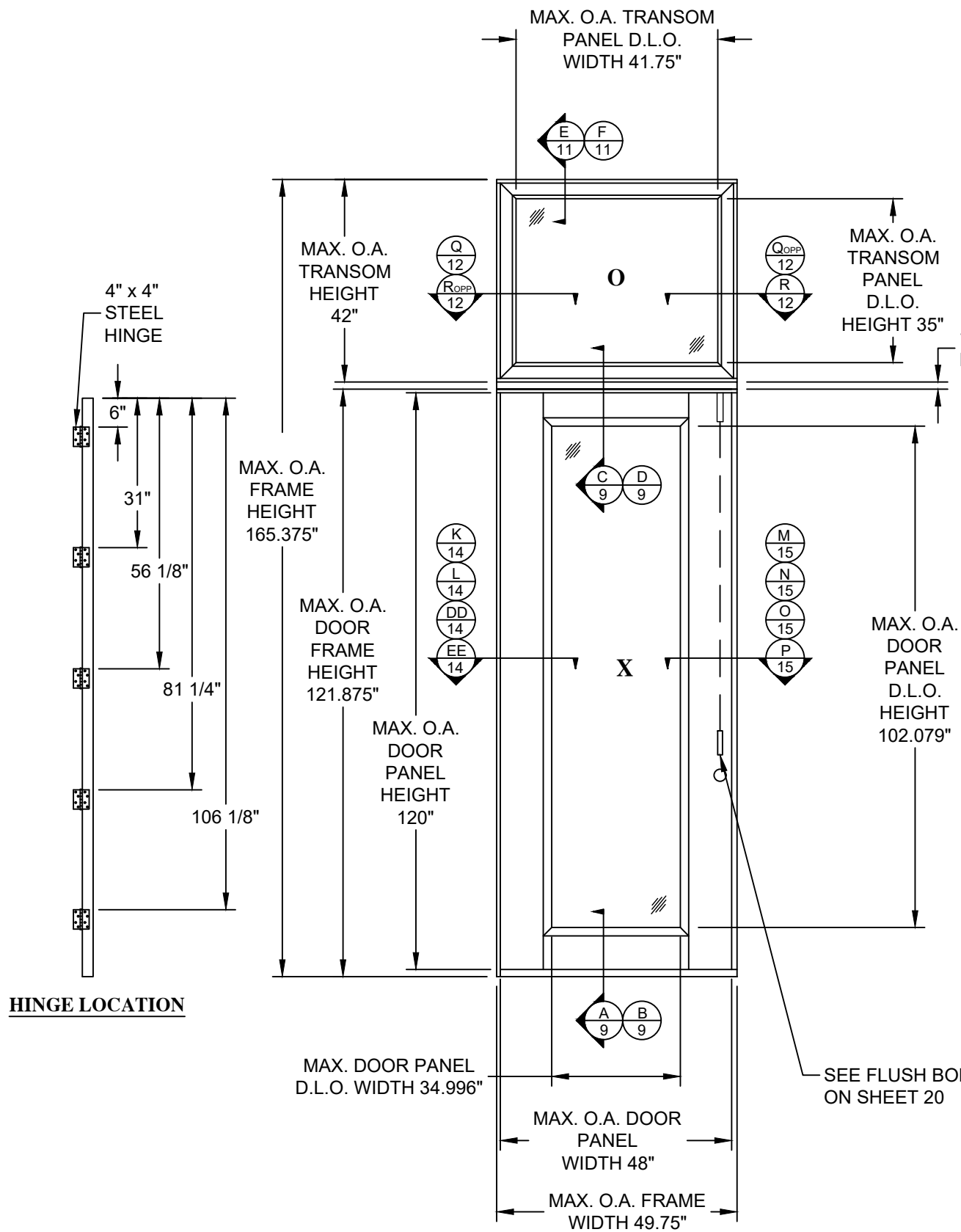
TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS
GENERAL AND INSTALLATION NOTES

PREPARED BY:
DRAWN BY: RJA
DATE: 8/7/20
DRAWING NO: RW0065
SHEET: 1 OF 20

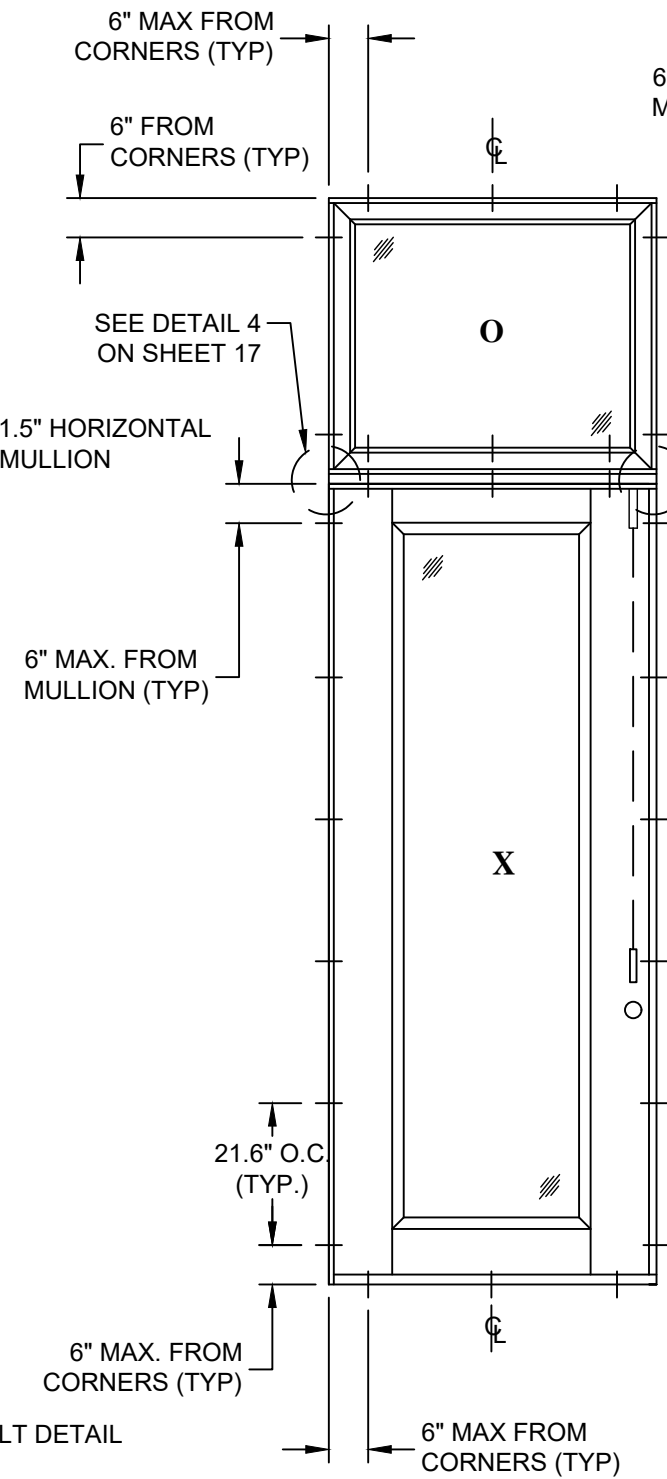
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

REV: ---

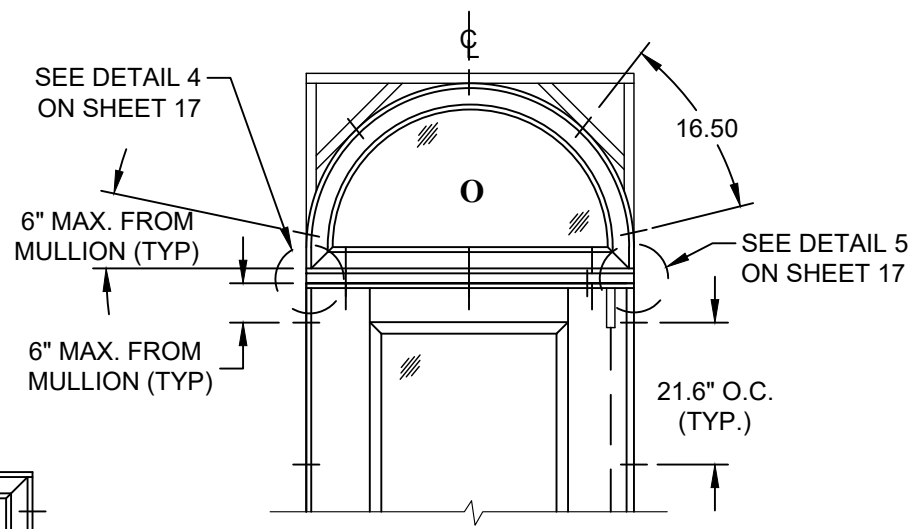
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DATE
BY



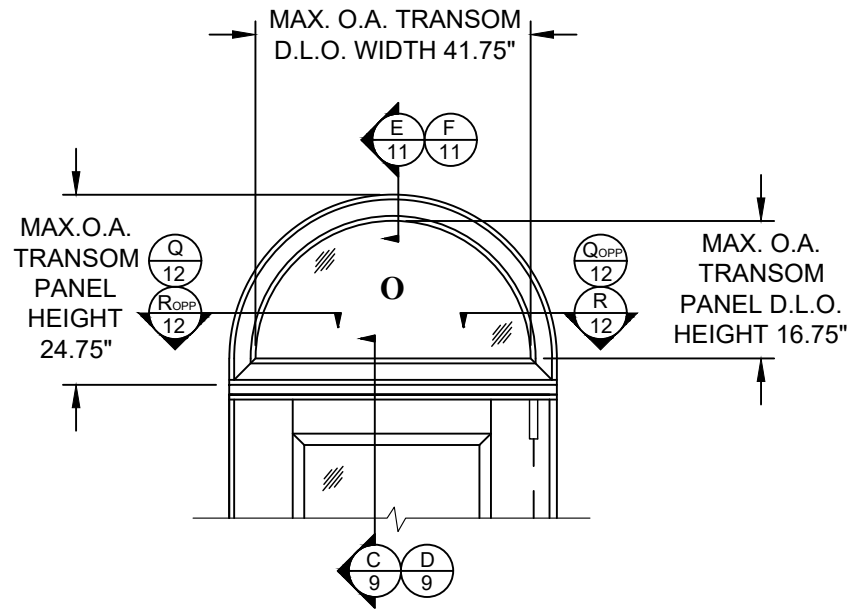
ELEVATION
EXTERIOR VIEW



ANCHOR LAYOUT
EXTERIOR VIEW



ANCHOR LAYOUT
OPTIONAL ROUND TOP TRANSOM / SINGLE DOOR (X)
EXTERIOR VIEW



ELEVATION
OPTIONAL ROUND TOP TRANSOM / SINGLE DOOR (X)
EXTERIOR VIEW

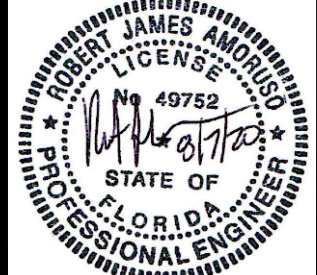
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ELEVATION & ANCHOR LAYOUT

PREPARED BY: **PTC**
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 8/7/20
DRAWING NO: RW0065
SHEET: 2 OF 20
REV: ---
PTC PRODUCT DESIGN GROUP, LLC
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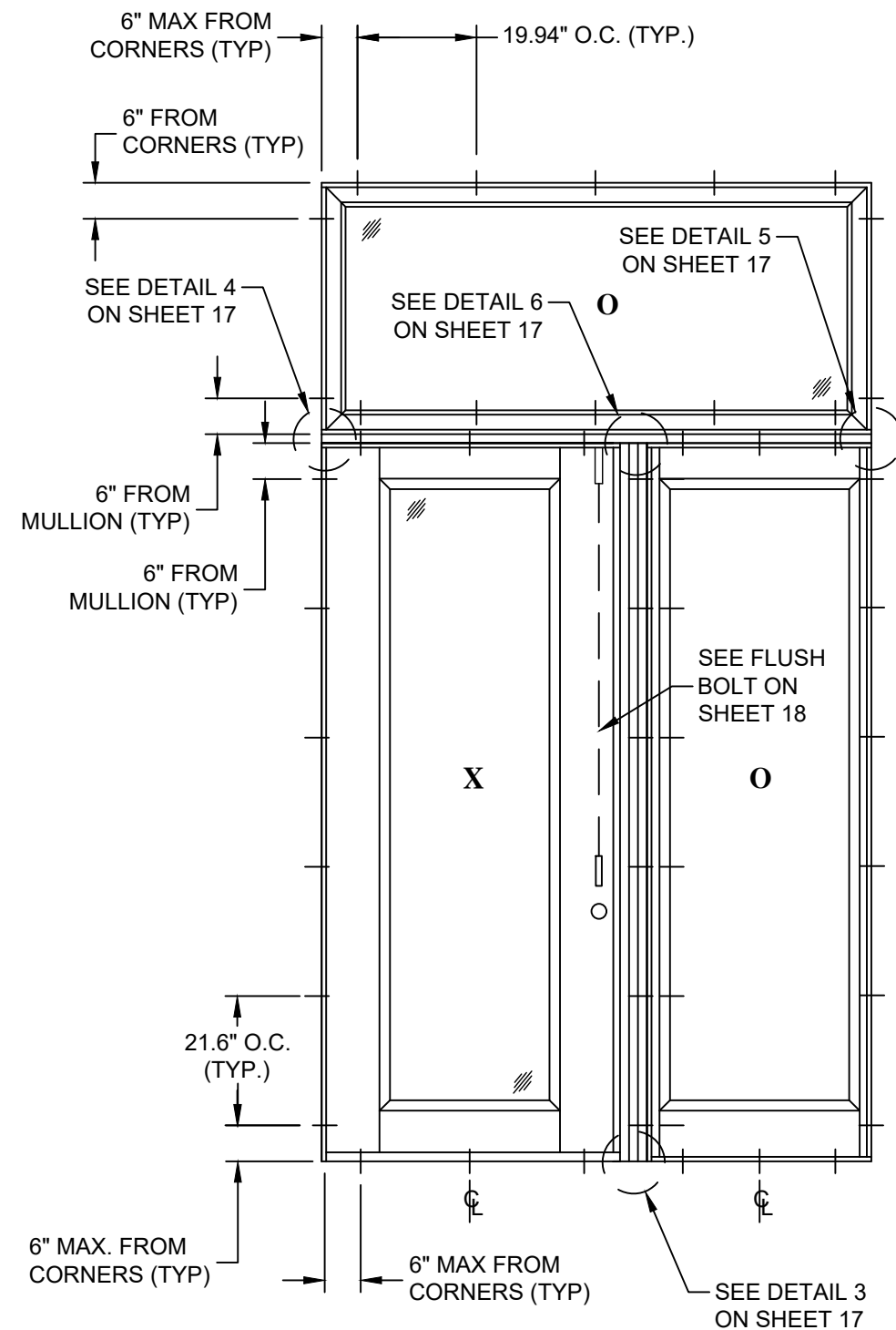
Robert J. Amoruso, P.E.
Florida P.E. No. 49752





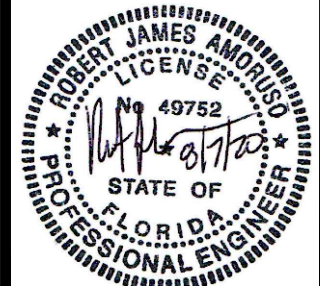
EXTERIOR VIEW

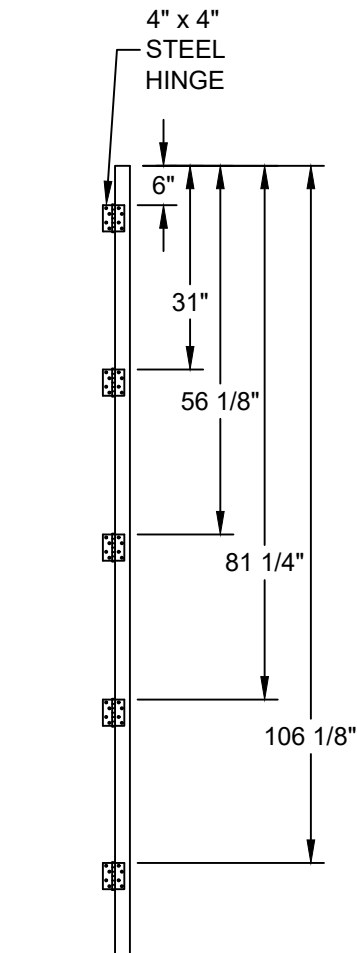
$\frac{O}{X/O}$ & $\frac{O}{O/X}$ $\left(\frac{O}{X/O} \text{ SHOWN} \right)$



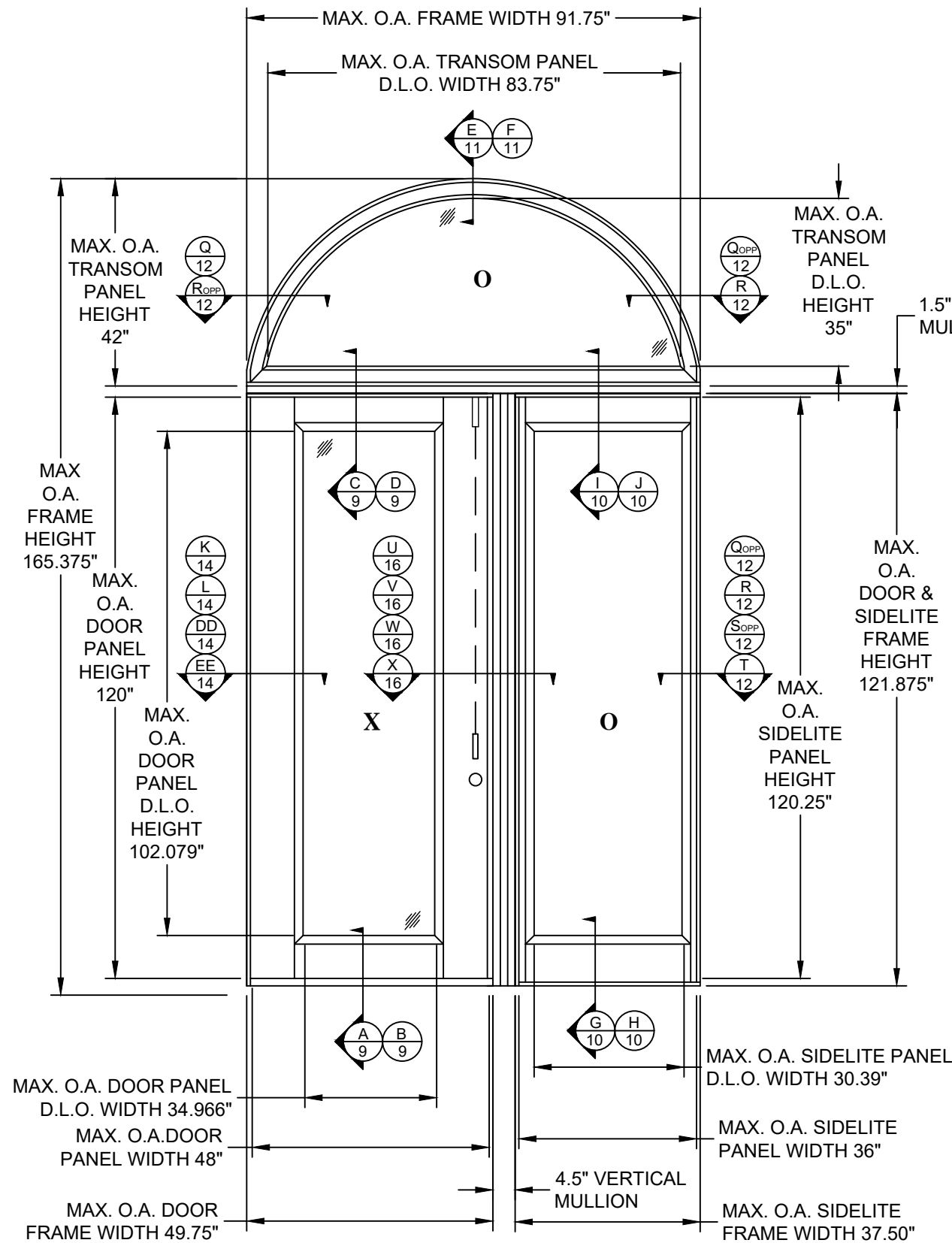
ANCHOR LAYOUT

EXTERIOR VIEW

$$\frac{O}{X/O} \ \& \ \frac{O}{O/X} \ \left(\frac{O}{X/O} \text{ SHOWN} \right)$$




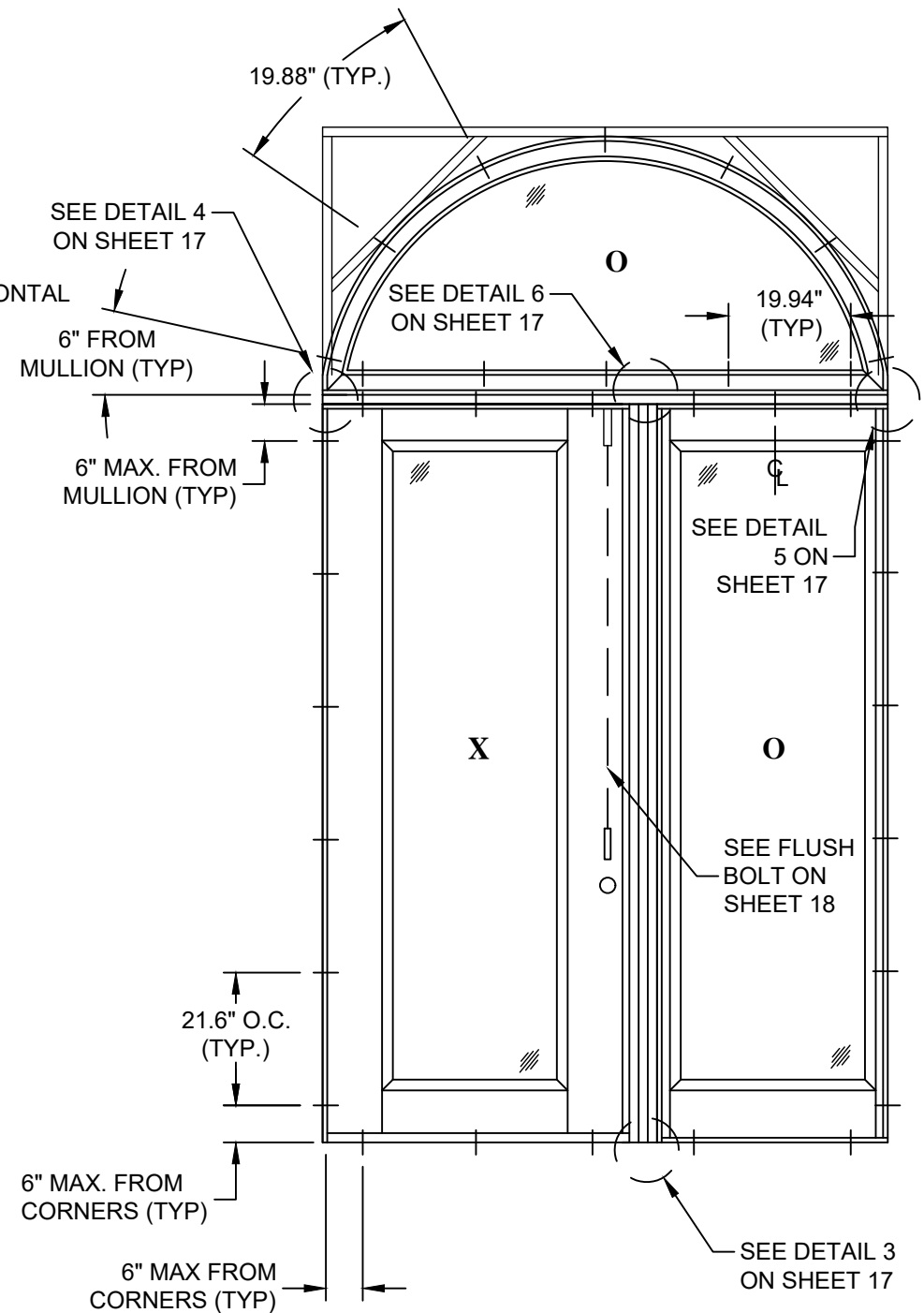
HINGE LOCATION



ELEVATION

EXTERIOR VIEW

$\frac{O}{X/O}$ & $\frac{O}{O/X}$ ($\frac{O}{X/O}$ SHOWN)



ANCHOR LAYOUT

EXTERIOR VIEW

$\frac{O}{X/O}$ & $\frac{O}{O/X}$ ($\frac{O}{X/O}$ SHOWN)

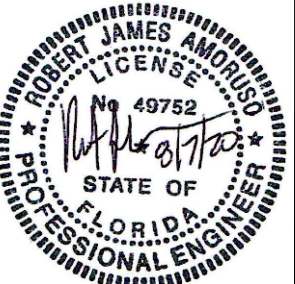
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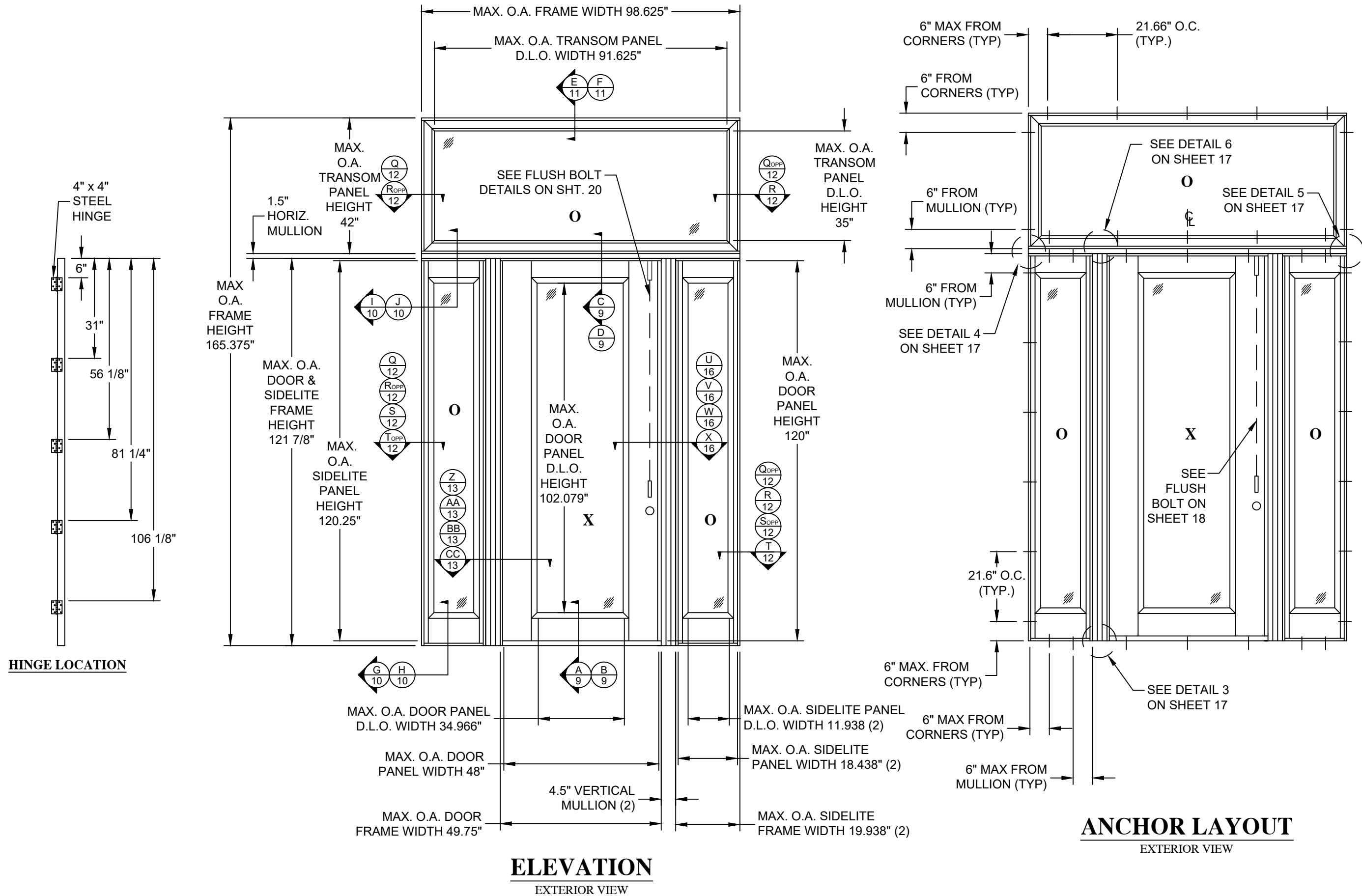
Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS
ELEVATION & ANCHOR LAYOUT

PREPARED BY:	DRAWN BY:	DATE:	DRAWING NO:	SHEET:
PTC PRODUCT DESIGN GROUP, LLC PO BOX 52075 LONGWOOD, FLORIDA 32752 Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com	RJA	8/7/20	RW0065	4 OF 20
SCALE:	N.T.S.	REV:	---	---

Robert J. Amoruso, P.E.
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PROJECT #419-0909					DATE	BY
					REV	DESCRIPTION

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DATE: 8/7/20
DRAWING NO: RW0065
SHEET: 5 OF 20

DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

PREPARED BY: **PTC**

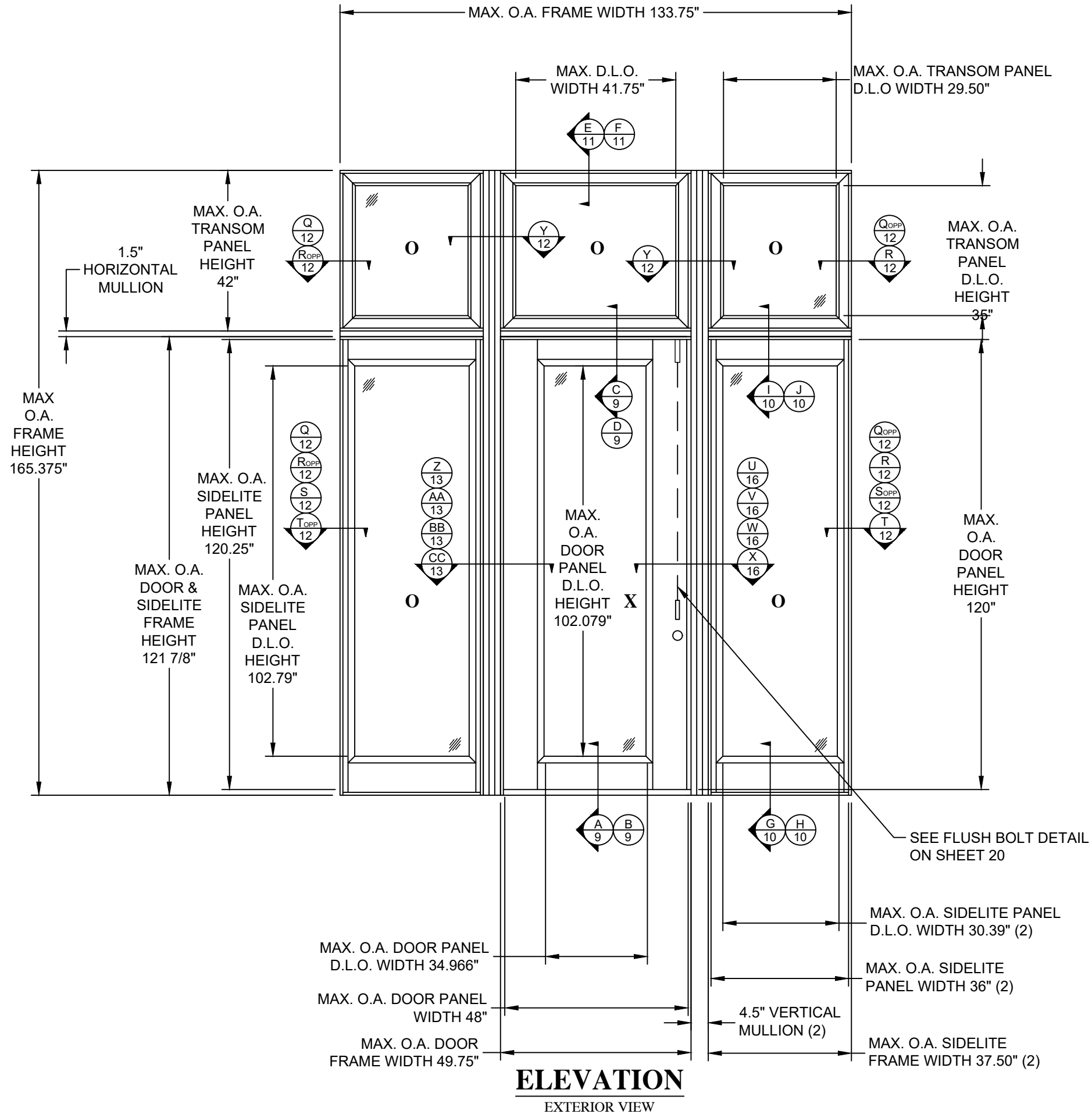
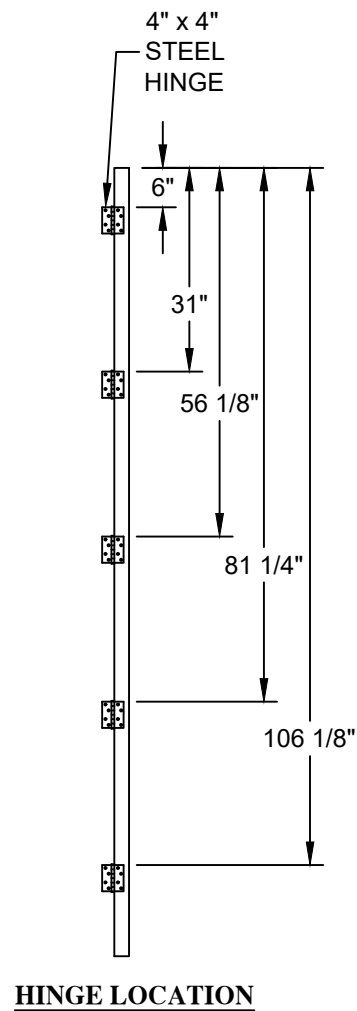
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ANCHOR LAYOUT

EXTERIOR VIEW



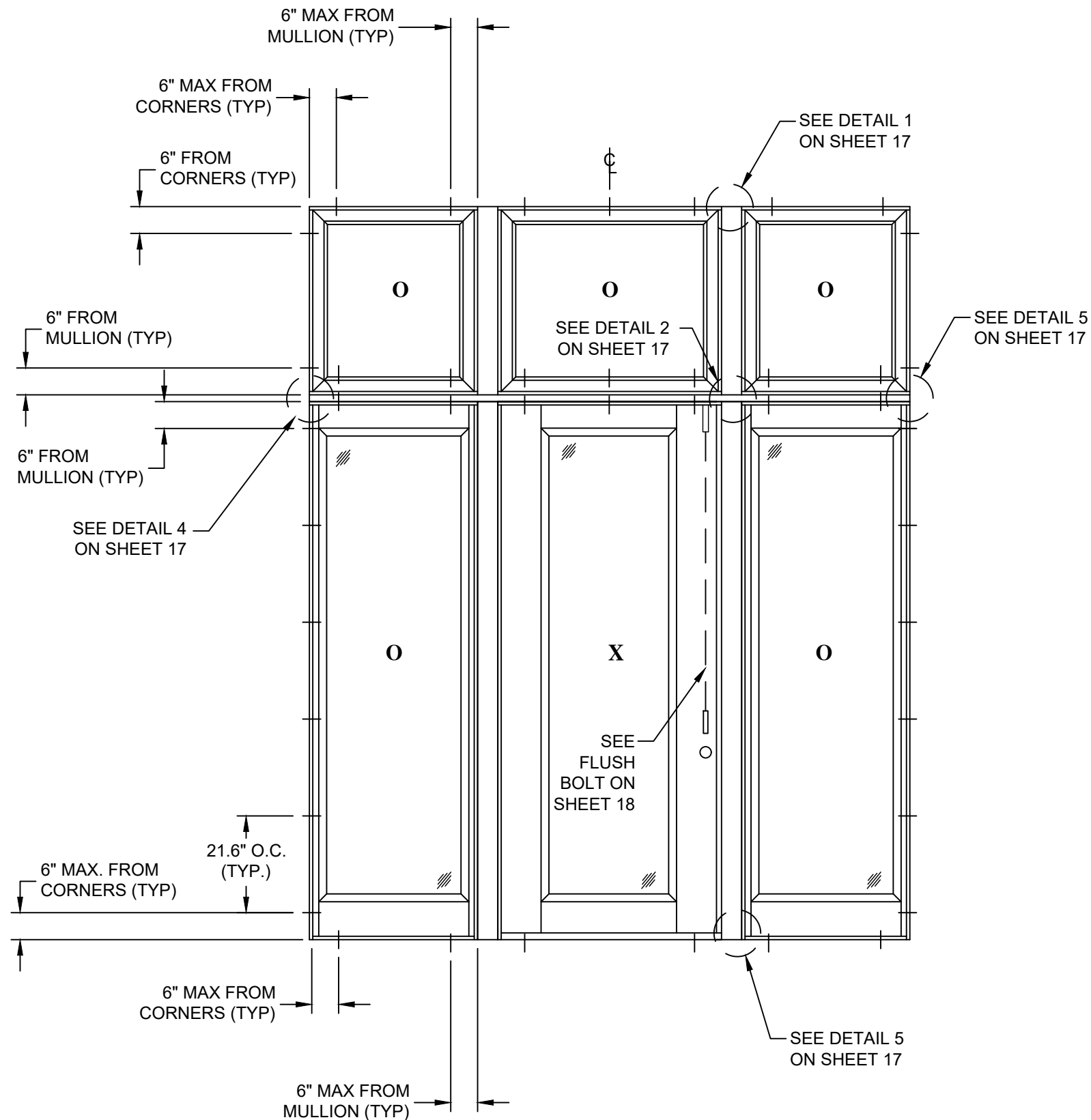
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					DATE
					DESCRIPTION
				REV	

Real Woods Inc. 1230 N. East Ave Sarasota, FL 34237	TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS		ELEVATION	
	PREPARED BY:	DATE:	DRAWING NO:	SHEET:
	RJA	8/7/20	RW0065	7 OF 20
	SCALE: N.T.S.	REV: ---		

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Robert J. Amoruso, P.E. Florida P.E. No. 49752	
---	--

PROFESSIONAL ENGINEER STATE OF FLORIDA No. 49752 Robert J. Amoruso	
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PROJECT #419-0909				DATE	BY
REV				DESCRIPTION	

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Sarasota, FL 34237

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ANCHOR LAYOUT

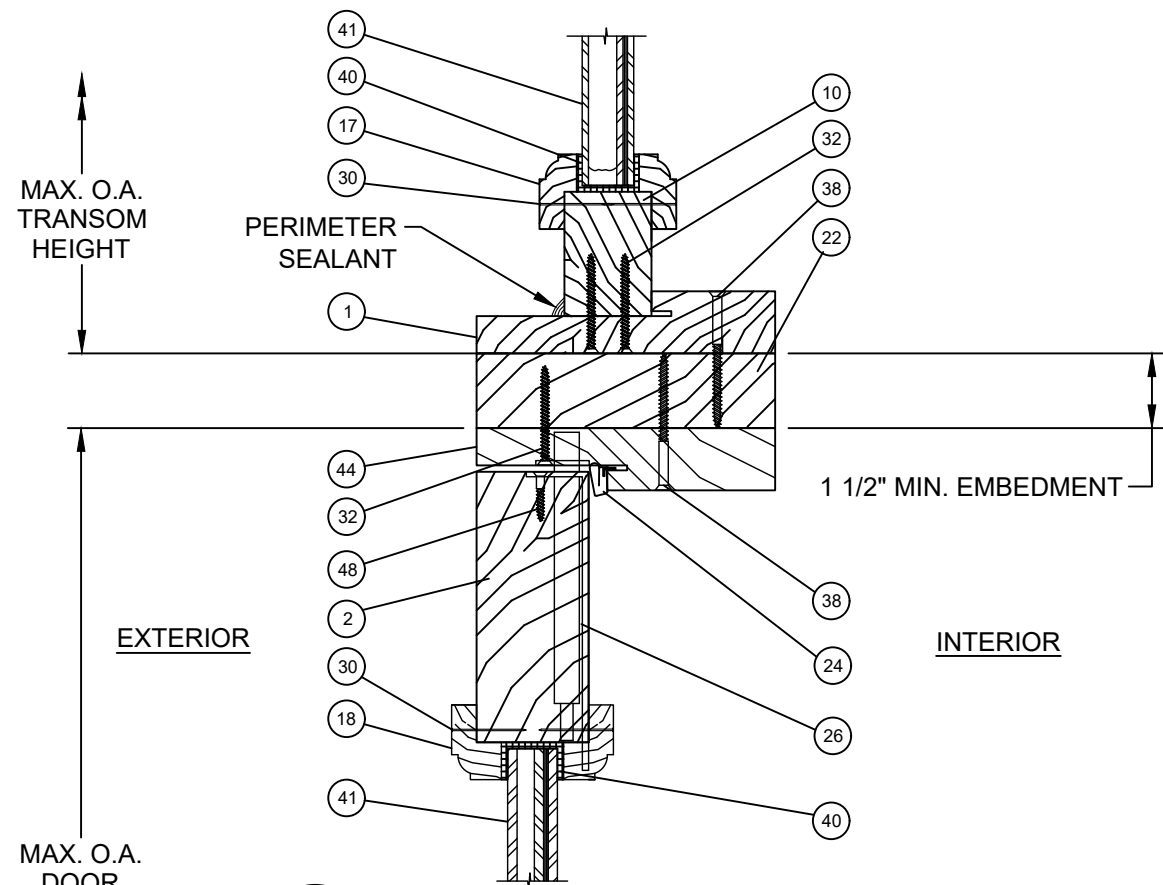
PREPARED BY:
PTC
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 52075
LONGWOOD, FLORIDA 32752
PHONE: 321.690.1788
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DRAWN BY:
RJA
SCALE:
N.T.S.
REV:

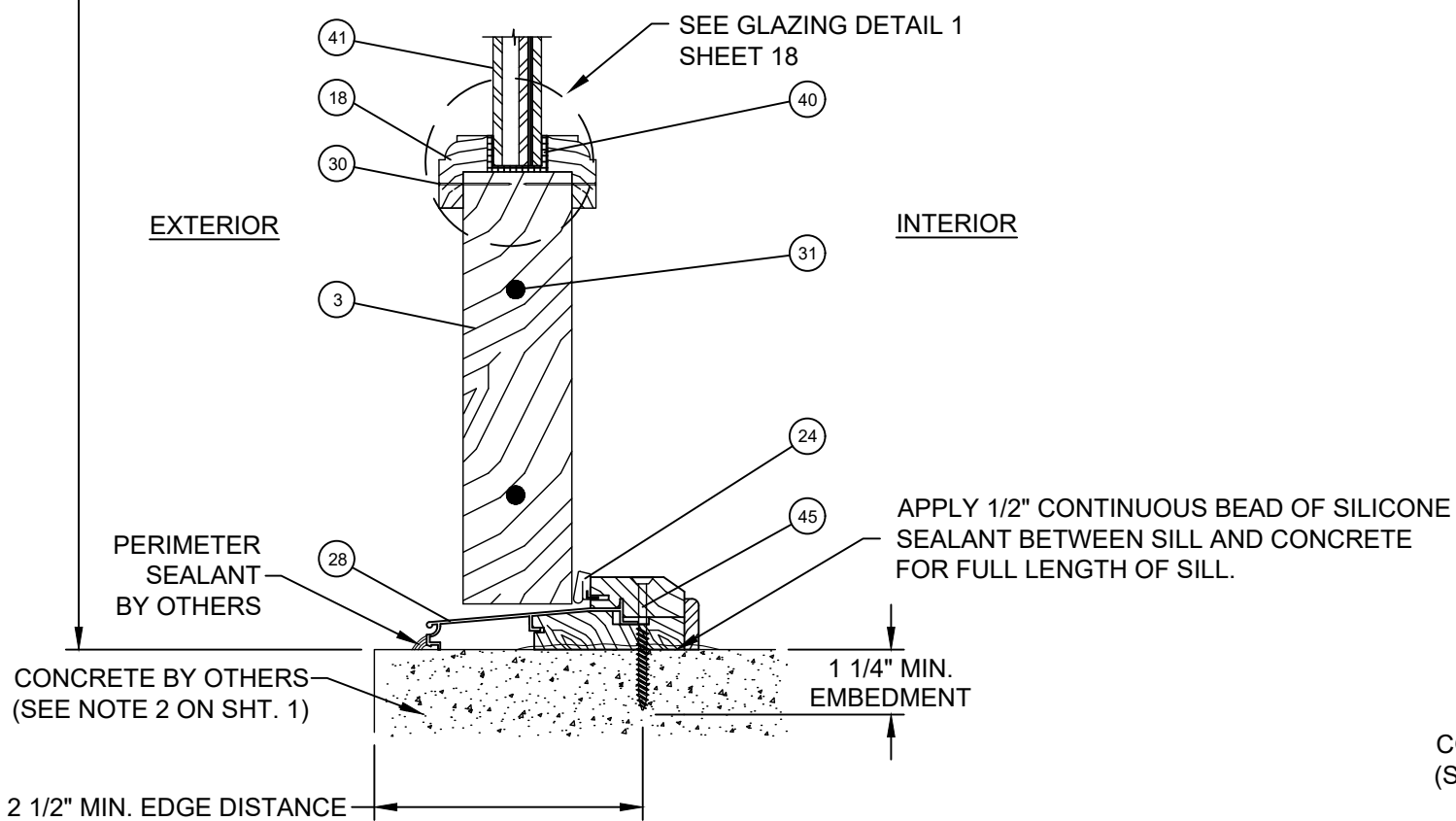
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8/7/20
DRAWING NO:
RW0065
SHEET:
8 OF 20



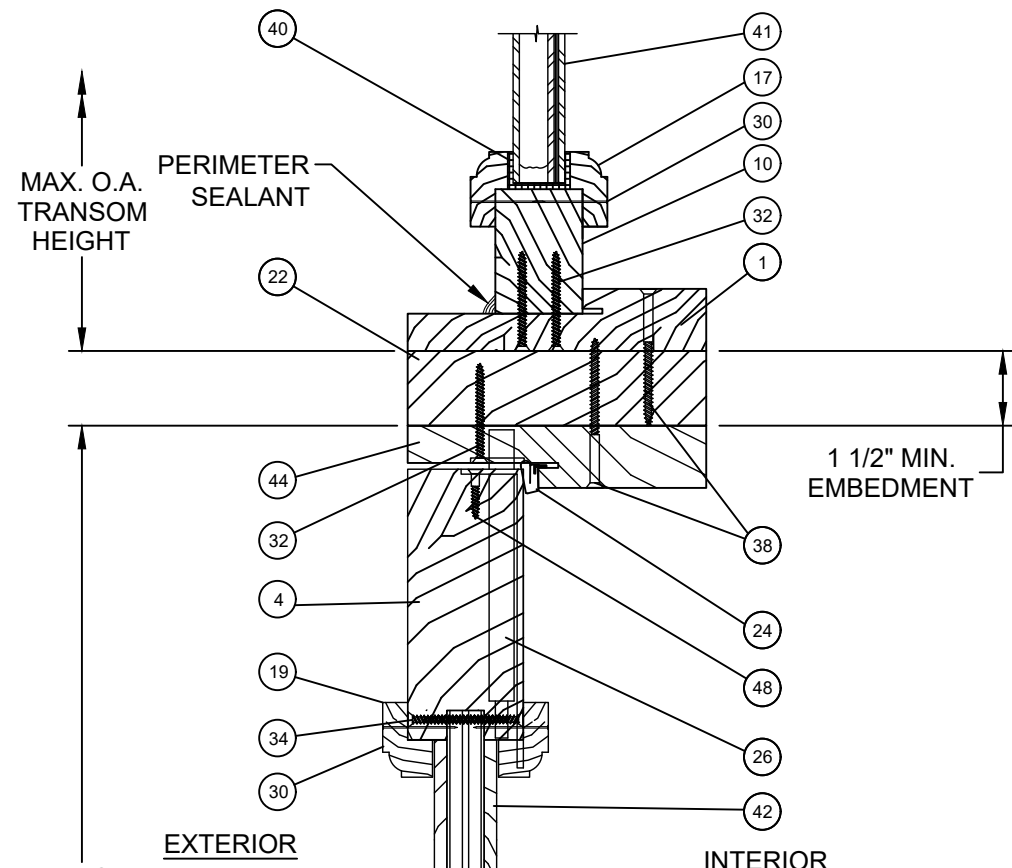
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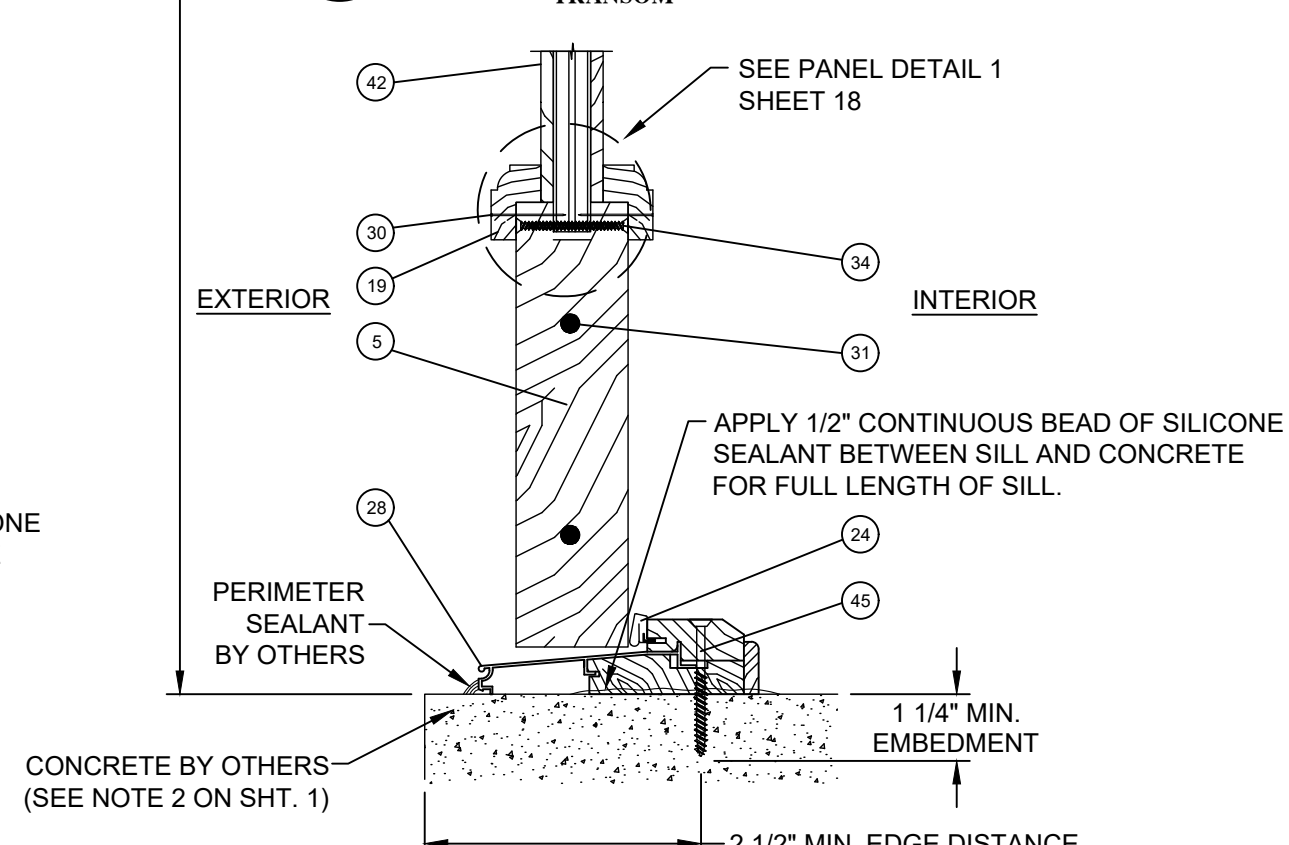
C **VERTICAL SECTION**
GLAZED DOOR PANEL AT HEAD/
TRANSOM



A **VERTICAL SECTION**
GLAZED DOOR PANEL AT SILL
CONCRETE / MASONRY SUBSTRATE



D **VERTICAL SECTION**
OPAQUE DOOR PANEL AT HEAD/
TRANSOM



B **VERTICAL SECTION**
OPAQUE DOOR PANEL AT SILL
CONCRETE / MASONRY SUBSTRATE

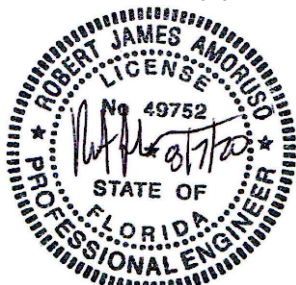
PROJECT #419-0909

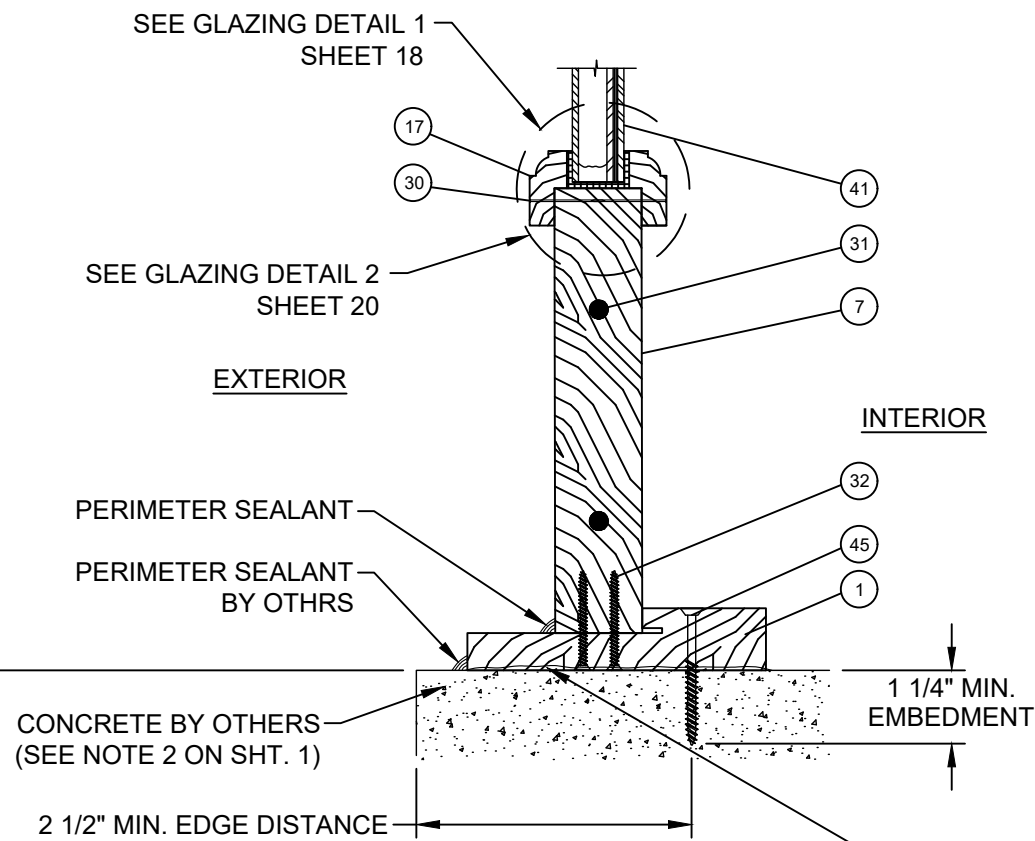
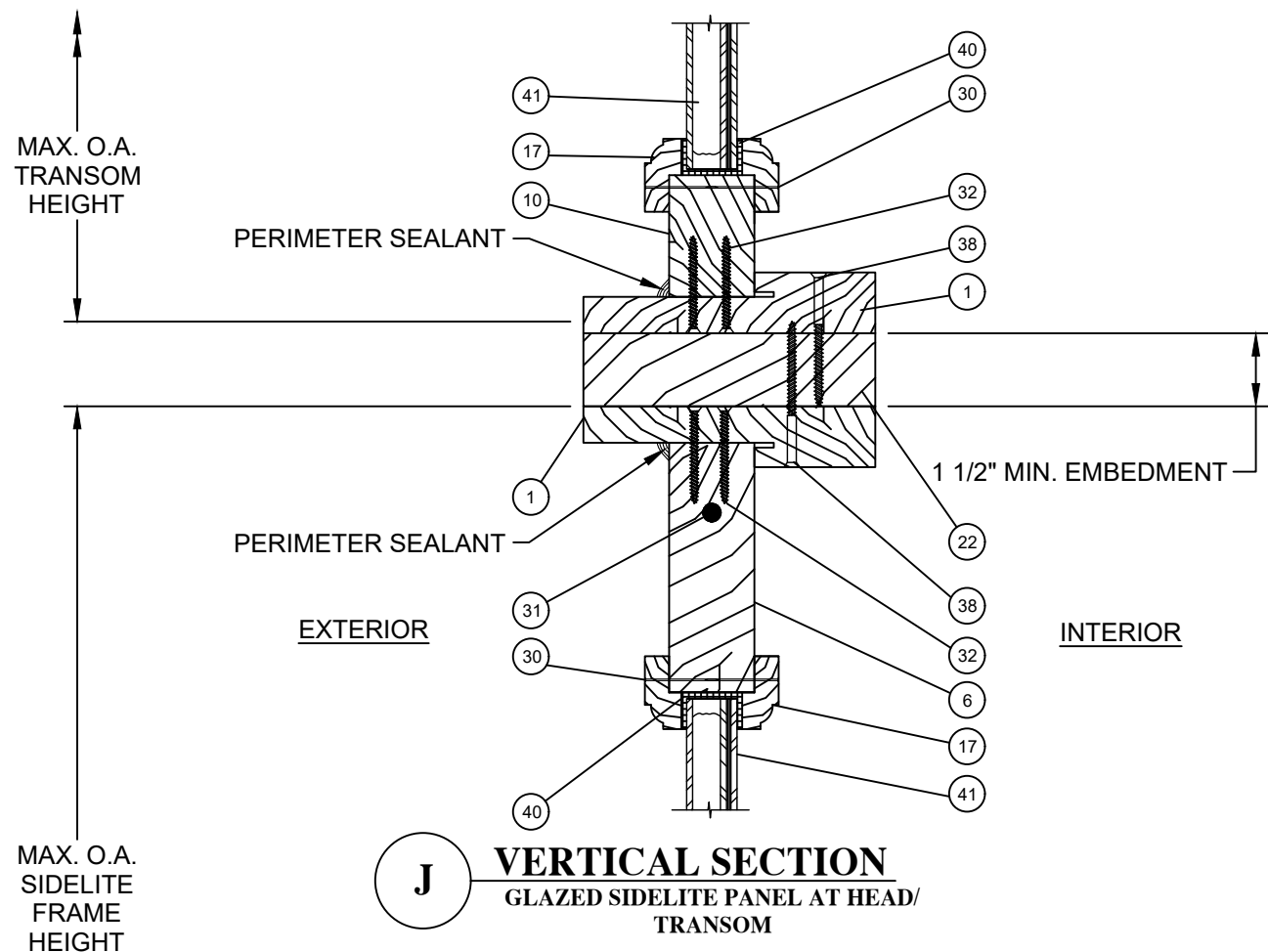
Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS
VERTICAL SECTIONS

PREPARED BY:	DRAWN BY:	DATE:	DRAWING NO:	SHEET:
	RJA	8/7/20	RW0065	9 OF 20
SCALE:	N.T.S.	REV:		
PTC PRODUCT DESIGN GROUP, LLC PO BOX 52075 LONGWOOD, FLORIDA 32752 PHONE: 321.690.1788 FAX: 321.690.1789 EMAIL: info@ptc-corp.com				

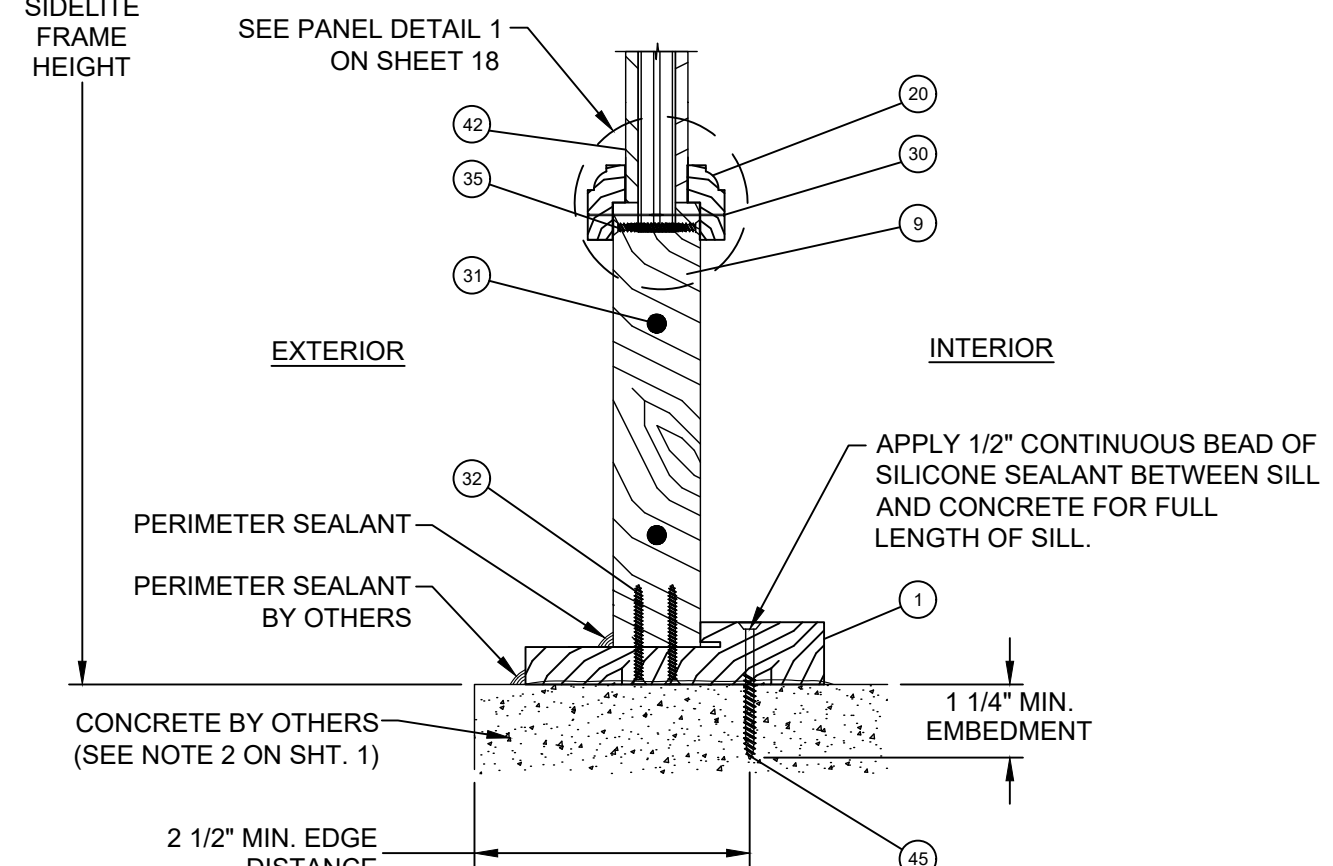
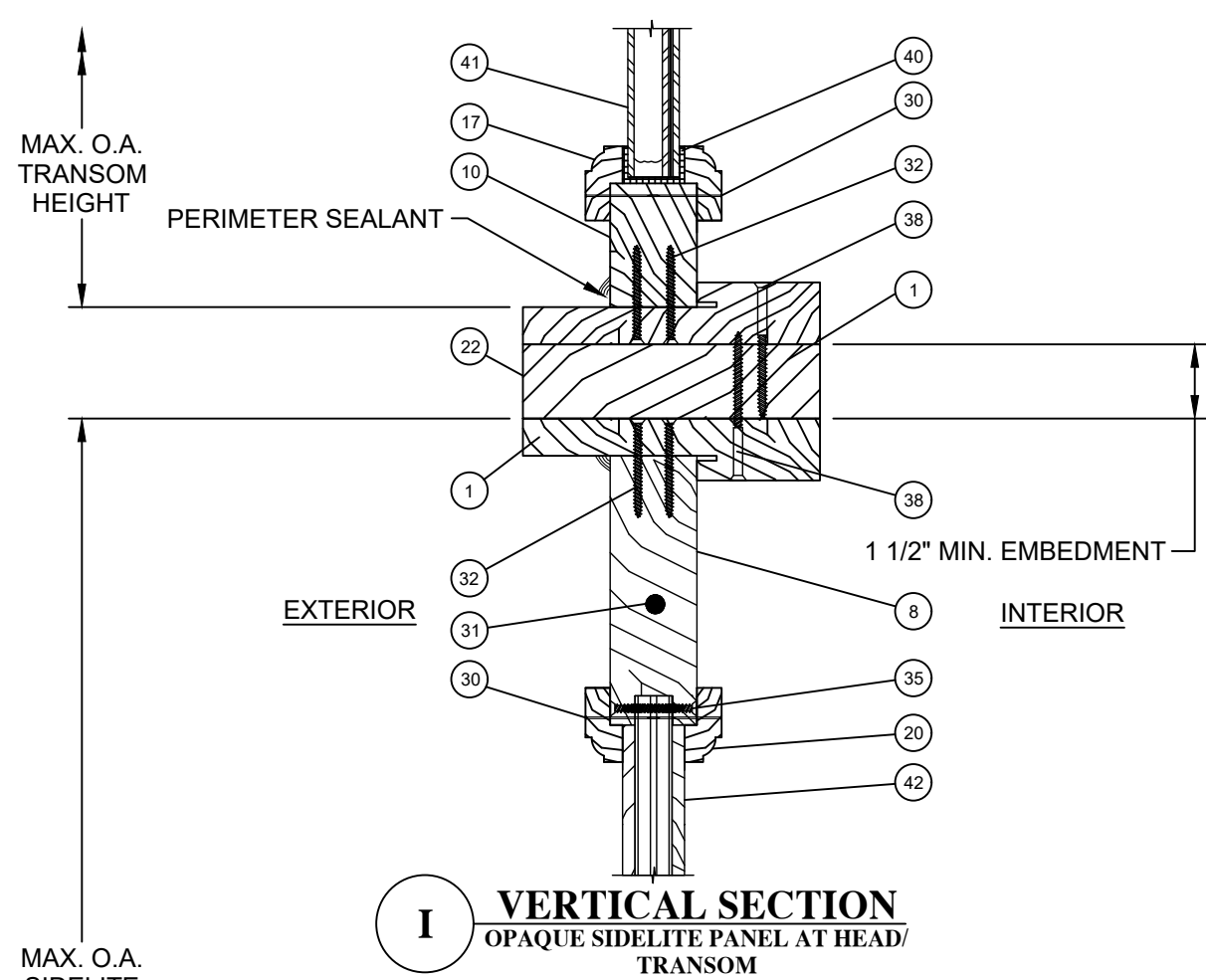
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G VERTICAL SECTION
GLAZED SIDELITE PANEL AT SILL
CONCRETE / MASONRY SUBSTRATE

APPLY 1/2" CONTINUOUS BEAD OF SILICONE
SEALANT BETWEEN SILL AND CONCRETE
FOR FULL LENGTH OF SILL.



H VERTICAL SECTION
OPAQUE SIDELITE PANEL AT SILL
CONCRETE / MASONRY SUBSTRATE

PROJECT #419-0909

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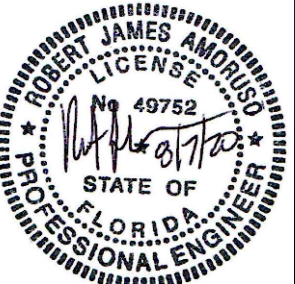
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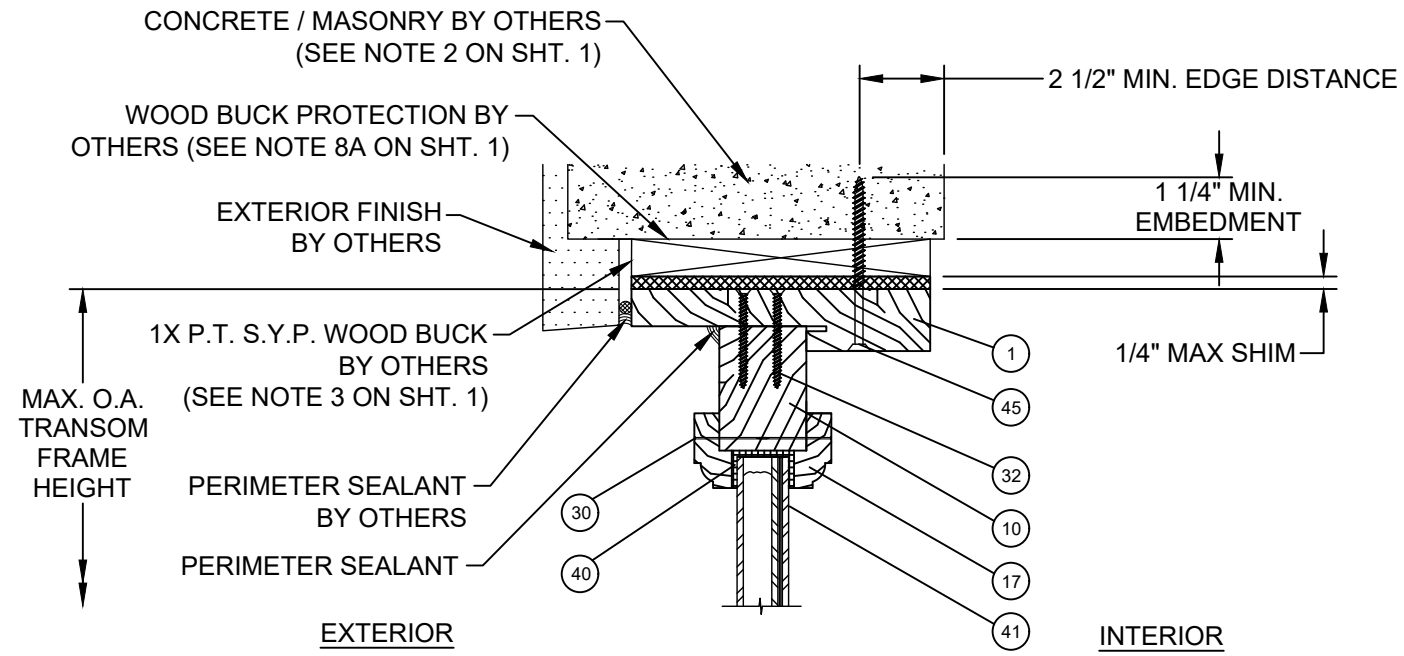
DATE: 8/7/20
DRAWING NO: RW0065
SHEET: 10 OF 20
SCALE: N.T.S.
REV: ---

PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

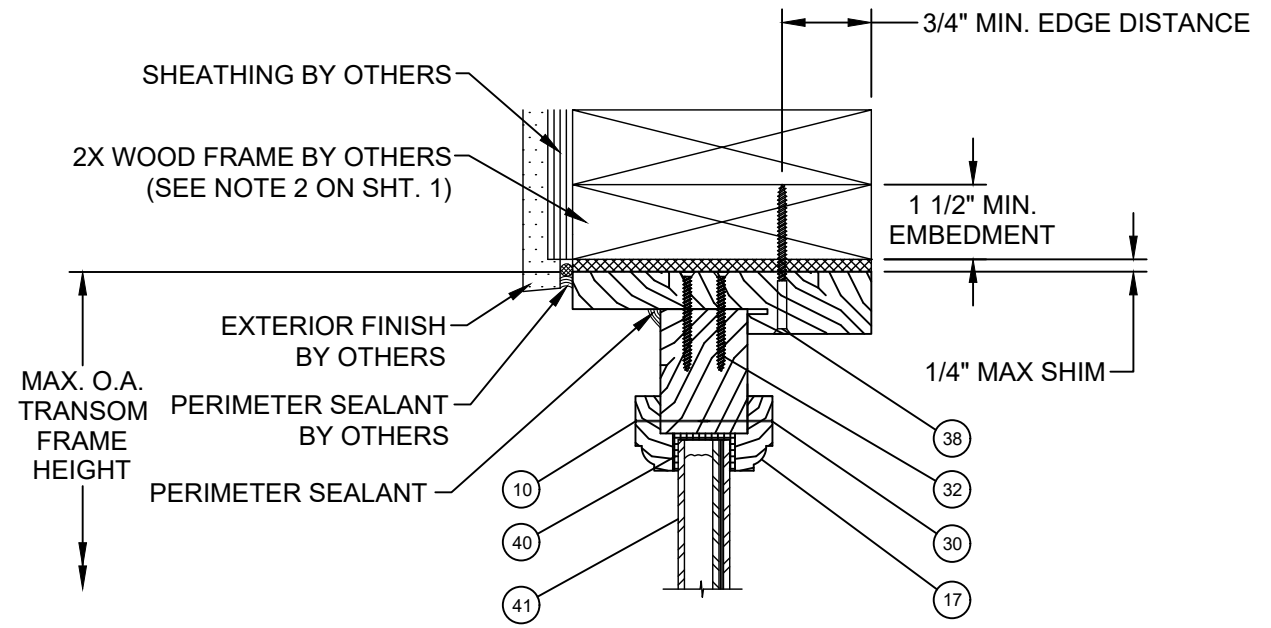
PTC PRODUCT DESIGN GROUP, LLC
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E **VERTICAL SECTION**
GLAZED TRANSOM PANEL AT HEAD
CONCRETE / MASONRY SUBSTRATE



F **VERTICAL SECTION**
GLAZED TRANSOM PANEL AT HEAD/
WOOD FRAME SUBSTRATE

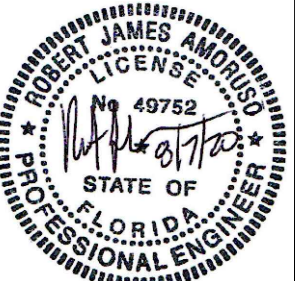
PROJECT #419-0909

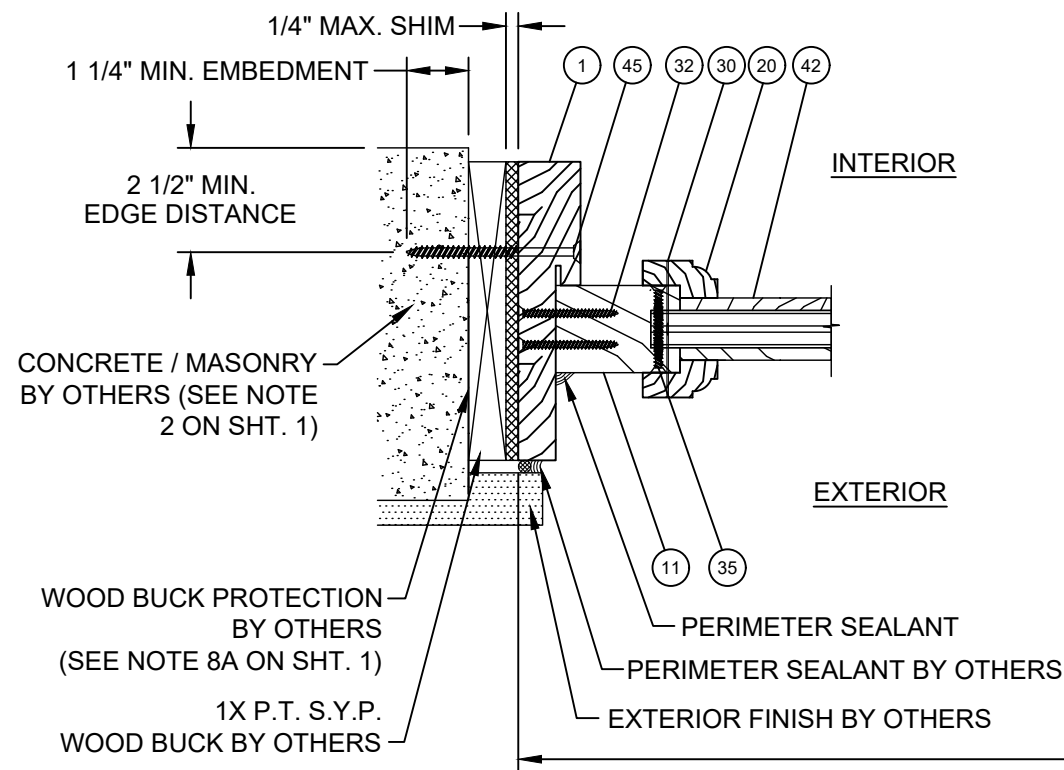
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Sarasota, FL 34237

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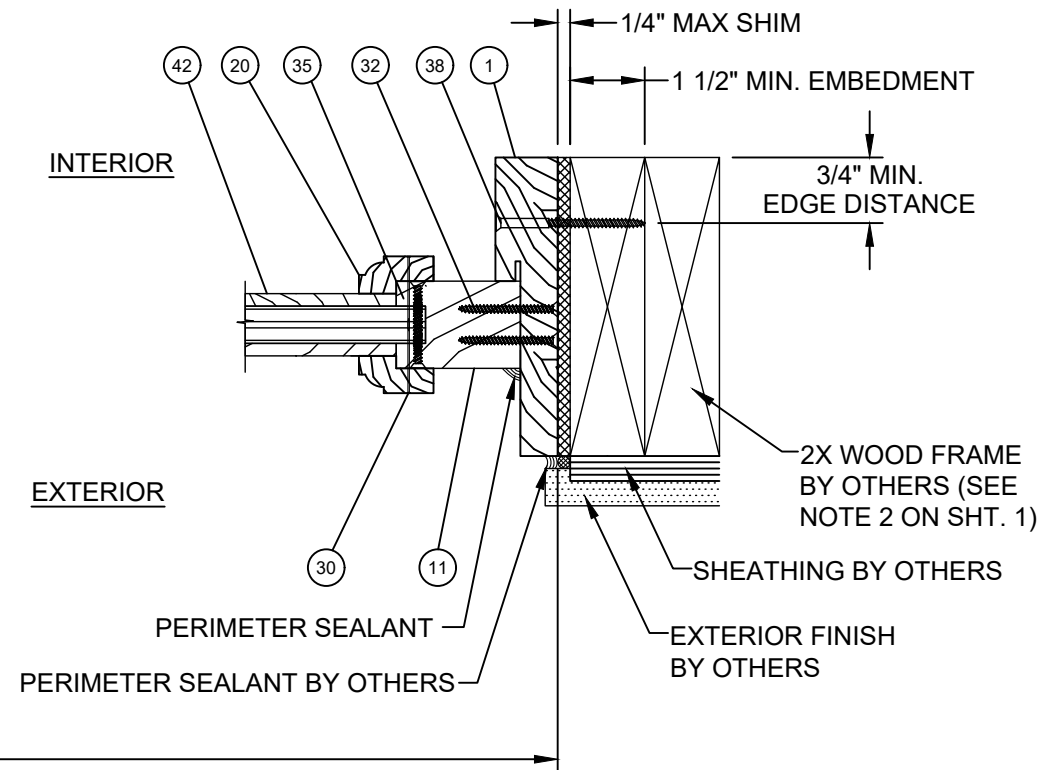
PREPARED BY:	DRAWN BY:	DATE:	DRAWING NO:	SHEET:
	RJA	8/7/20	RW0065	11 OF 20
PTC PRODUCT DESIGN GROUP, LLC PO BOX 52075 LONGWOOD, FLORIDA 32752 PHONE: 321.690.1788 FAX: 321.690.1789 EMAIL: info@ptc-corp.com	SCALE:	N.T.S.	REV:	---

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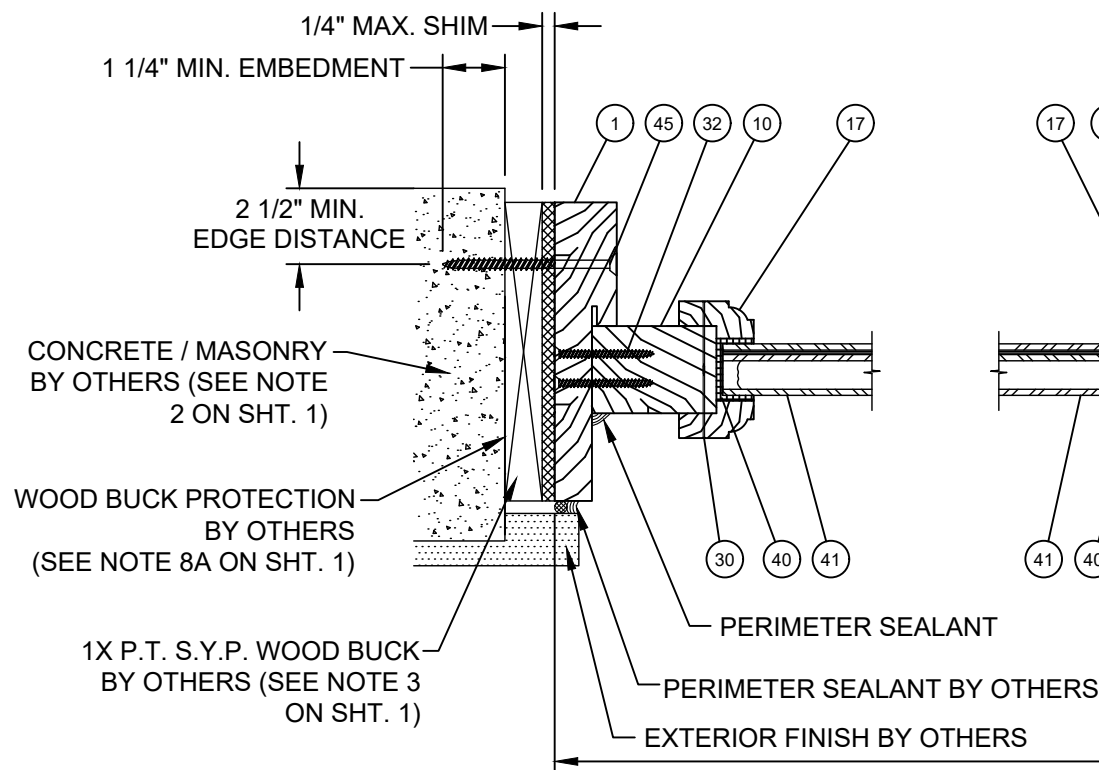




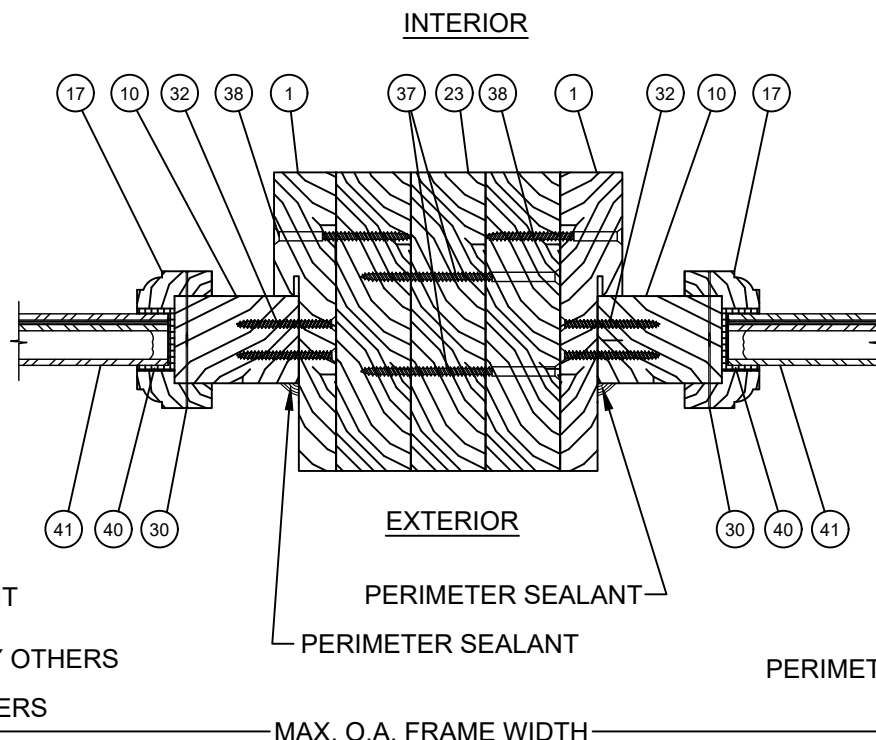
S HORIZONTAL SECTION
OPAQUE SIDELITE PANEL AT JAMB
CONCRETE / MASONRY SUBSTRATE



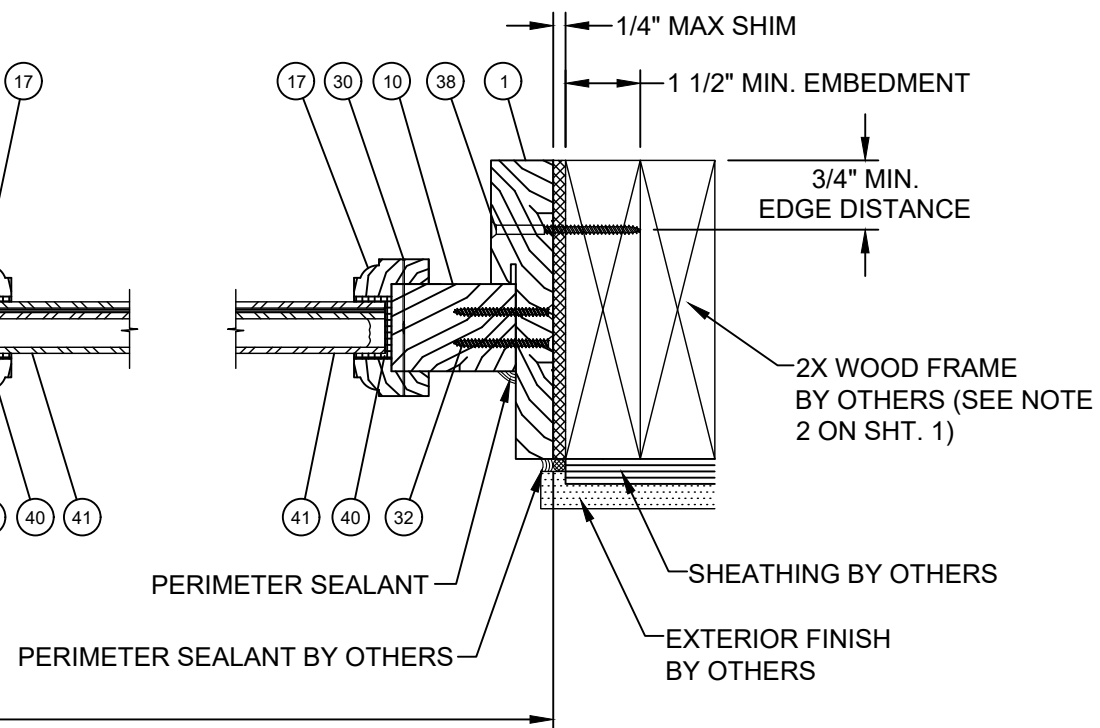
T HORIZONTAL SECTION
OPAQUE SIDELITE PANEL AT JAMB
WOOD FRAME SUBSTRATE



Q HORIZONTAL SECTION
GLAZED SIDELITE PANEL AT JAMB &
TRANSOM SASH
CONCRETE / MASONRY SUBSTRATE



Y HORIZONTAL SECTION
GLAZED TRANSOM/ SASH PANEL AT
MULLION



R HORIZONTAL SECTION
GLAZED SIDELITE PANEL AT JAMB &
TRANSOM SASH
WOOD FRAME SUBSTRATE

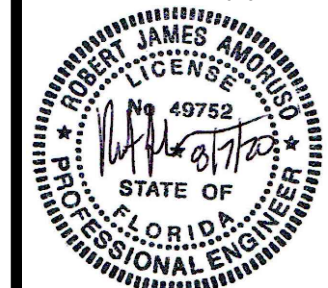
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HORIZONTAL SECTIONS

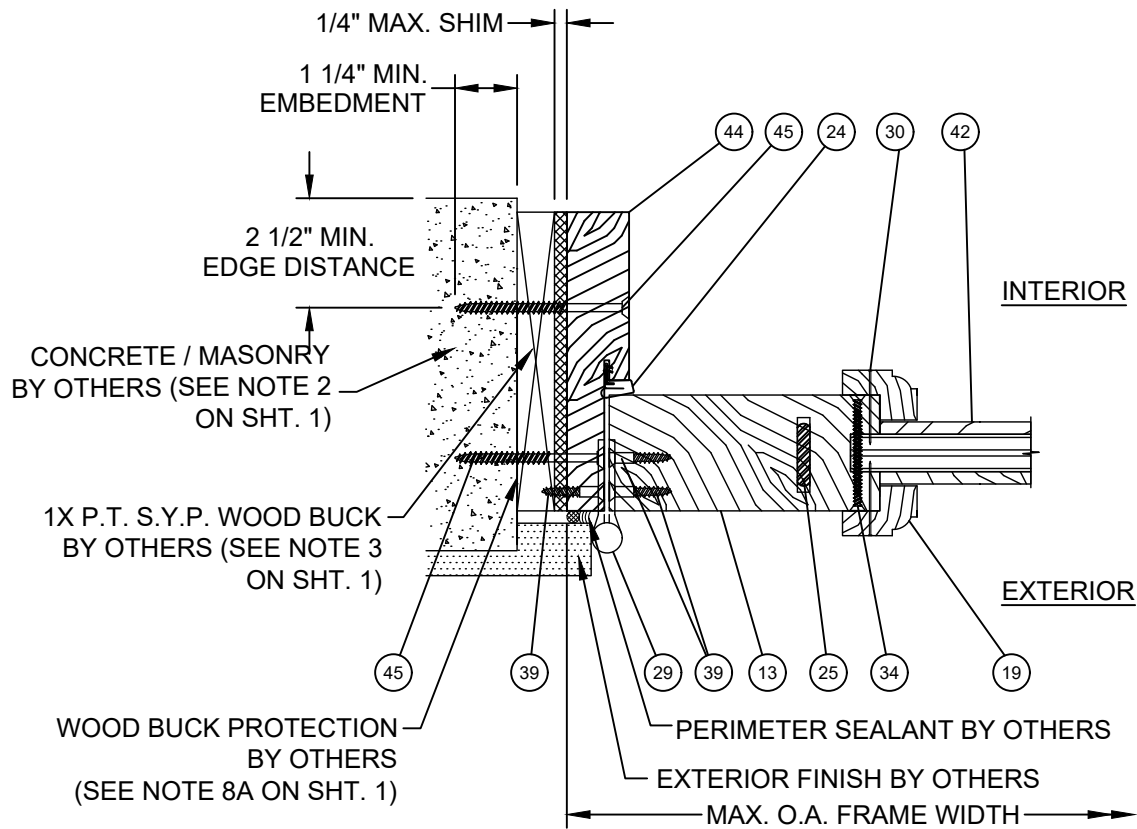
PREPARED BY: RJA
DATE: 8/7/20
SCALE: N.T.S.
DRAWING NO: RW0065
SHEET: 12 OF 20
REV: ---

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Florida P.E. No. 49752

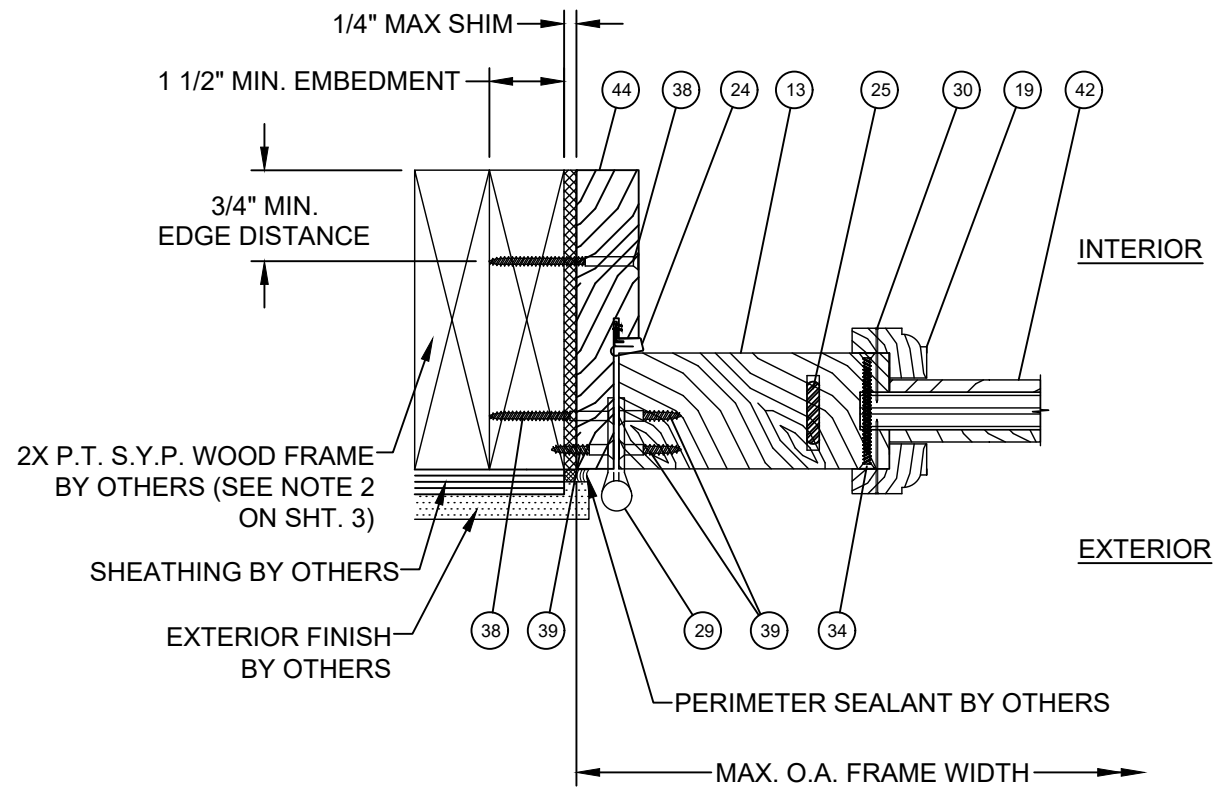




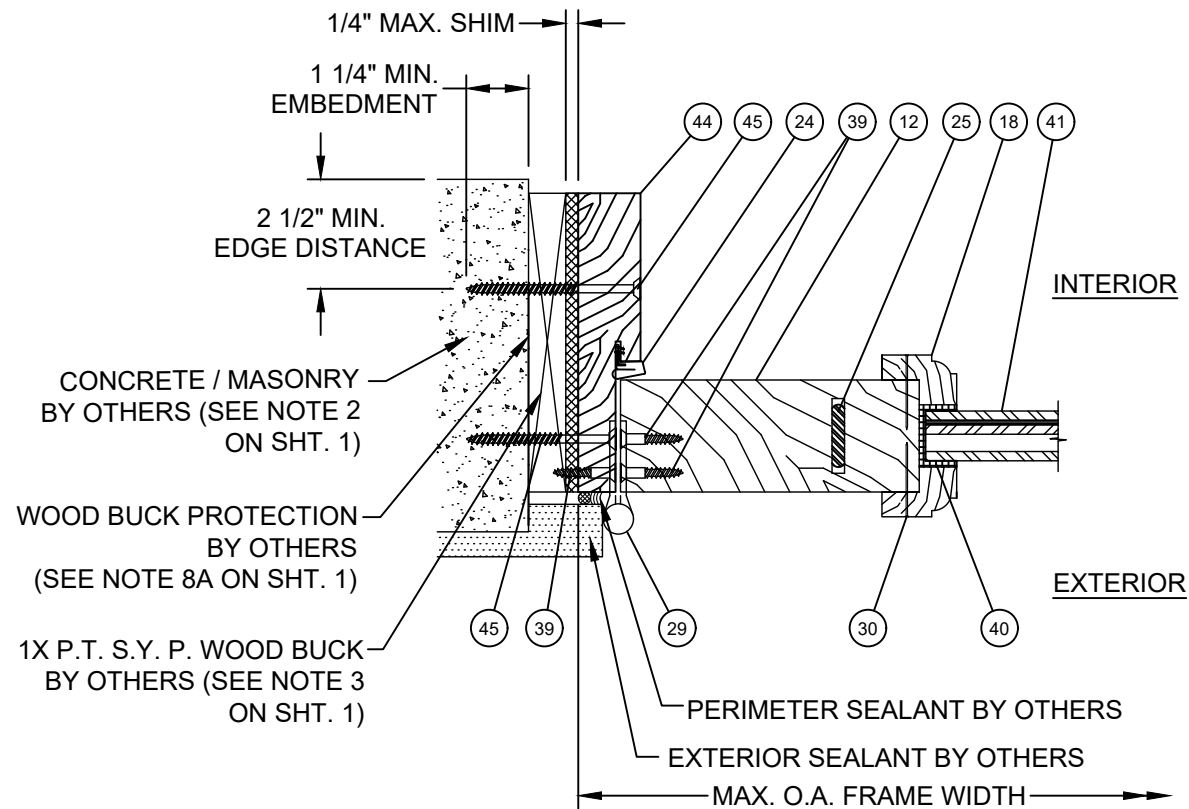
A circular professional engineer seal for Robert James Amoroso. The outer ring contains the text "ROBERT JAMES AMOROSO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top, "No. 49752" is in the center, and "STATE OF FLORIDA" is at the bottom. A handwritten signature is written across the center of the seal.



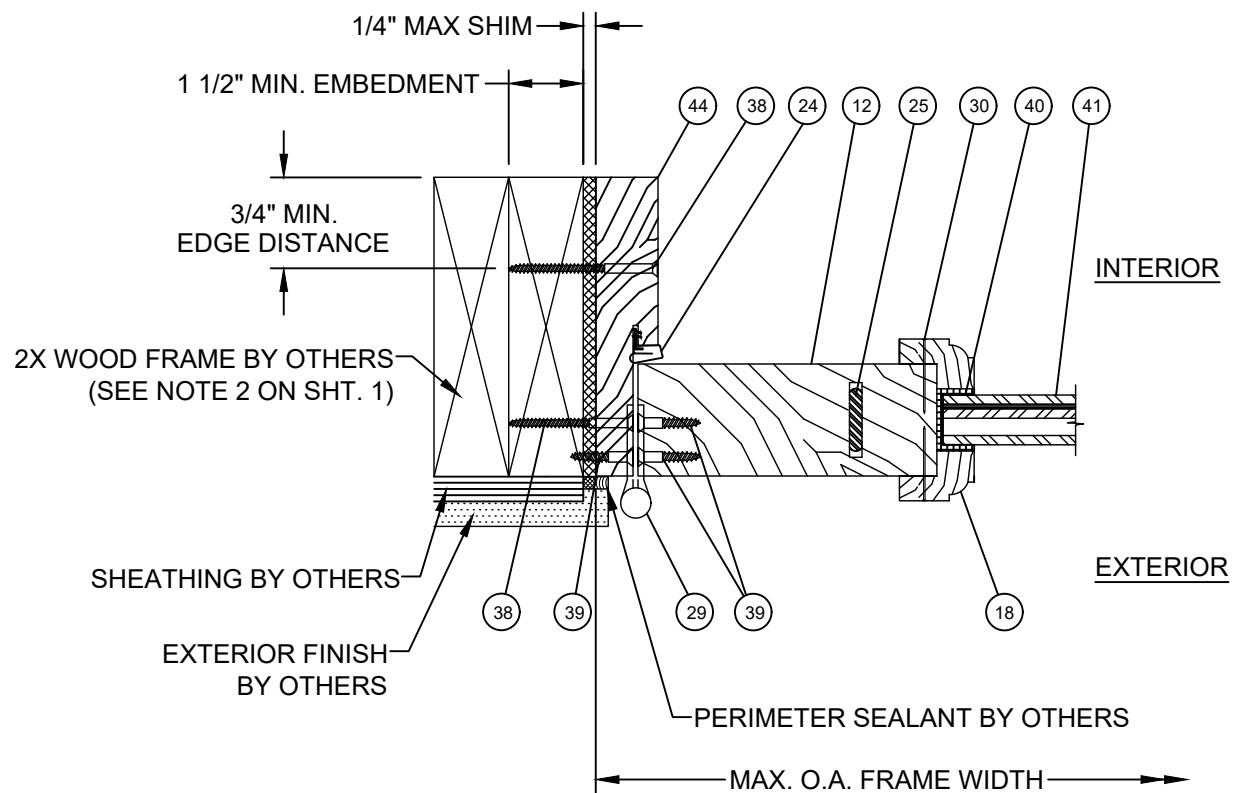
K HORIZONTAL SECTION
OPAQUE DOOR PANEL HINGE AT JAMB
CONCRETE / MASONRY SUBSTRATE



L HORIZONTAL SECTION
OPAQUE DOOR PANEL HINGE STILE AT JAMB
WOOD FRAME SUBSTRATE



DD HORIZONTAL SECTION
GLAZED DOOR PANEL HINGE STILE AT JAMB
CONCRETE / MASONRY SUBSTRATE



EE HORIZONTAL SECTION
GLAZED DOOR PANEL HINGE STILE AT JAMB
WOOD FRAME SUBSTRATE

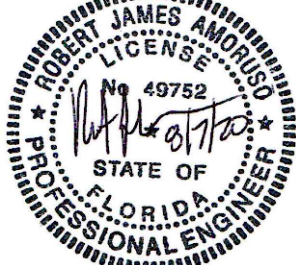
PROJECT #419-0909

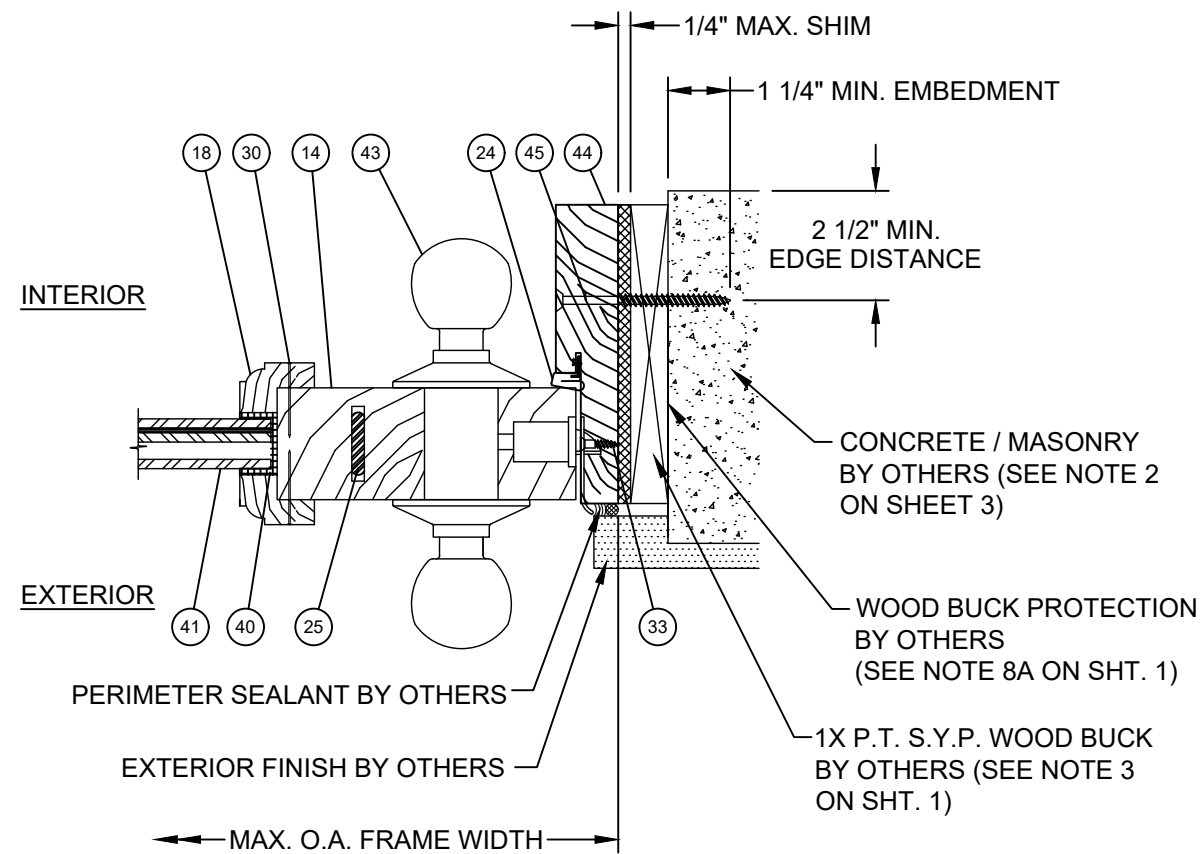
Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS
HORIZONTAL SECTIONS

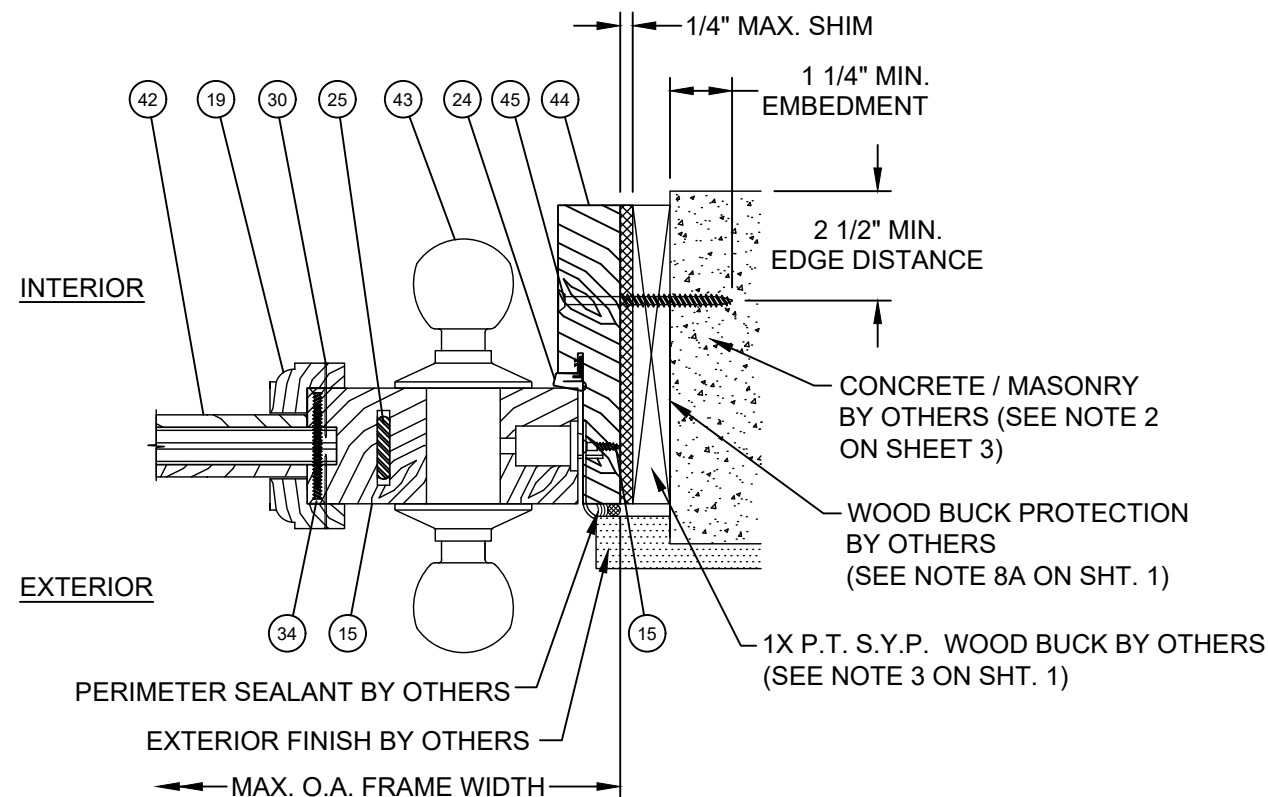
DRAWN BY:	RJA	DATE:	8/7/20
SCALE:	N.T.S.	DRAWING NO.:	RW0065
REV:	---	SHEET:	14 OF 20

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

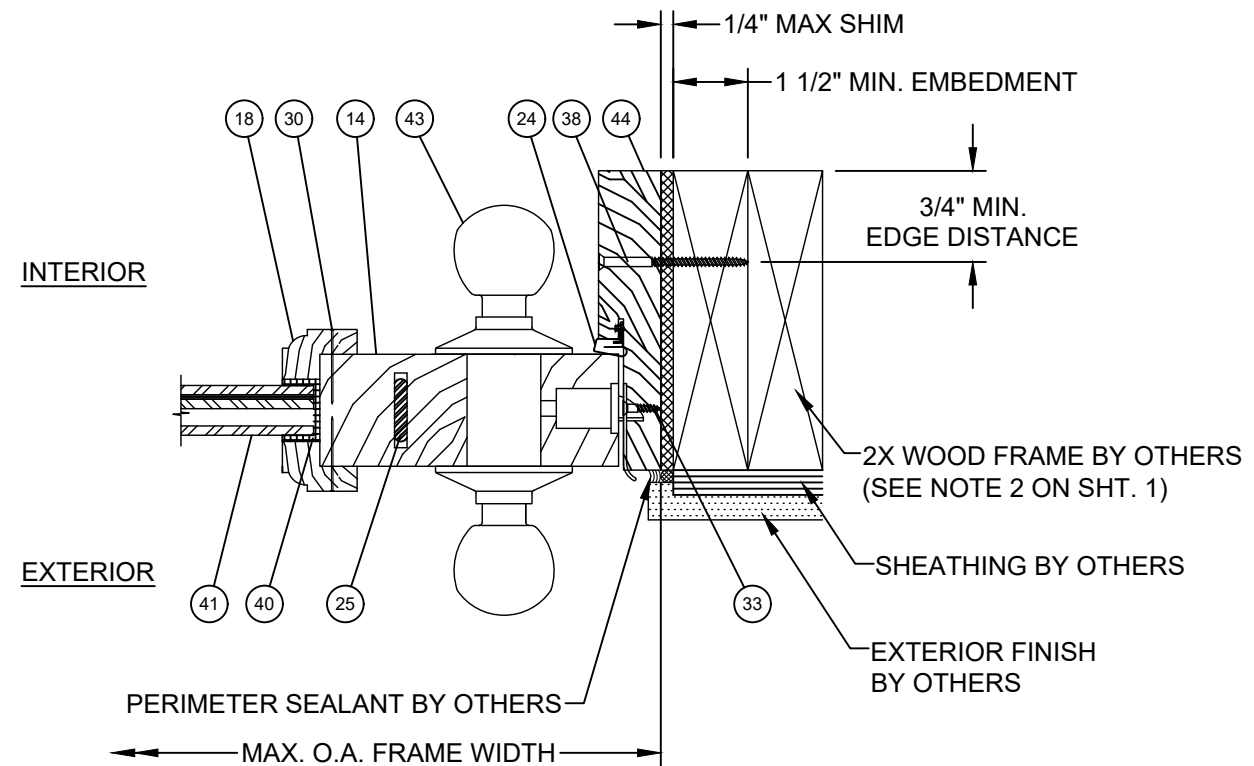




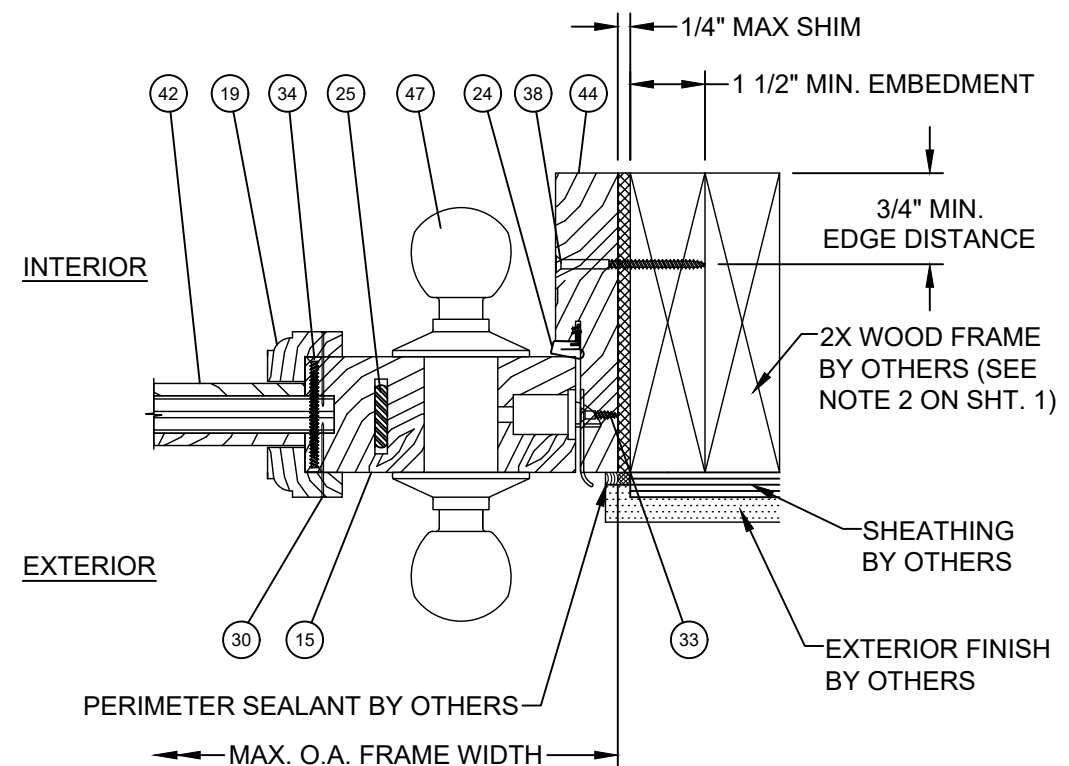
O **HORIZONTAL SECTION**
GLAZED DOOR PANEL LOCK STILE AT JAMB
CONCRETE / MASONRY SUBSTRATE



M **HORIZONTAL SECTION**
OPAQUE DOOR PANEL LOCK STILE AT JAMB
CONCRETE / MASONRY SUBSTRATE



P **HORIZONTAL SECTION**
GLAZED DOOR PANEL LOCK STILE AT JAMB
WOOD FRAME SUBSTRATE



N **HORIZONTAL SECTION**
OPAQUE DOOR PANEL LOCK STILE AT JAMB
WOOD FRAME SUBSTRATE

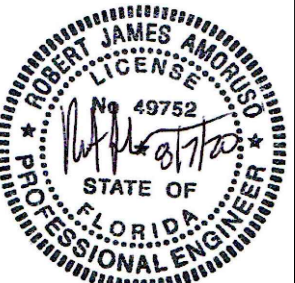
PROJECT #419-0909

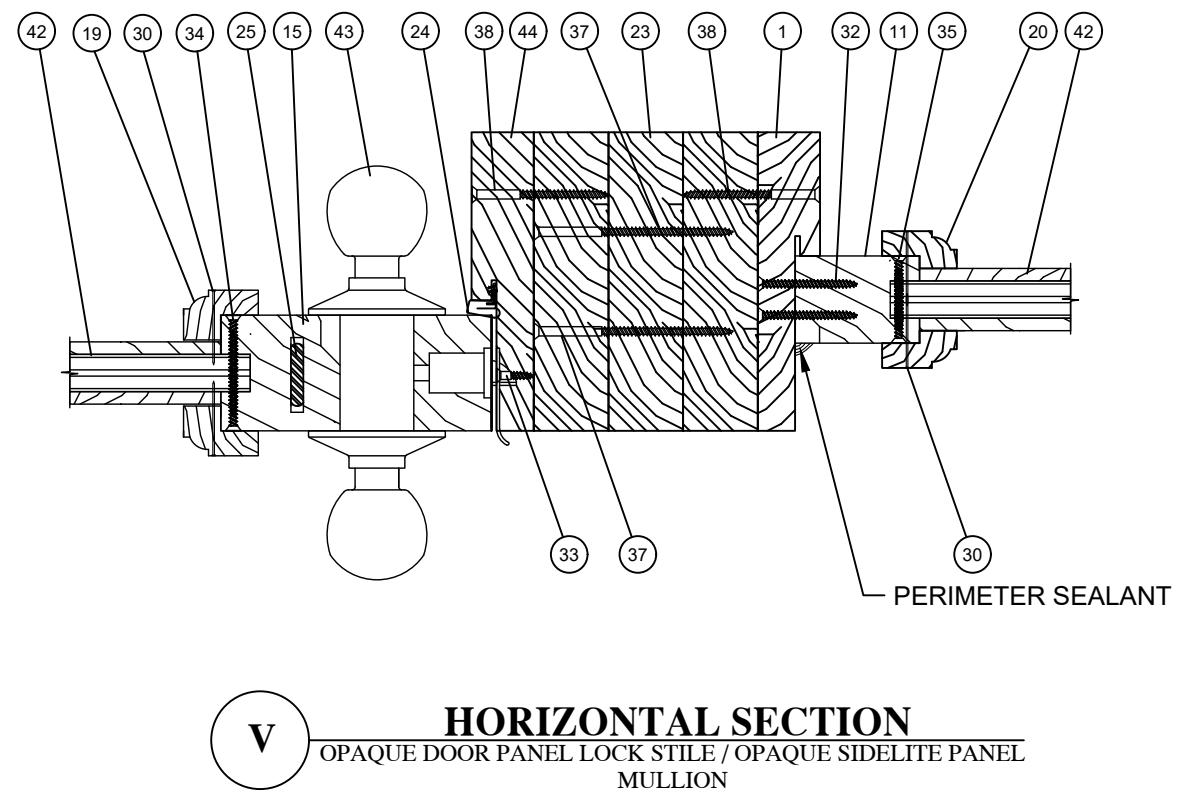
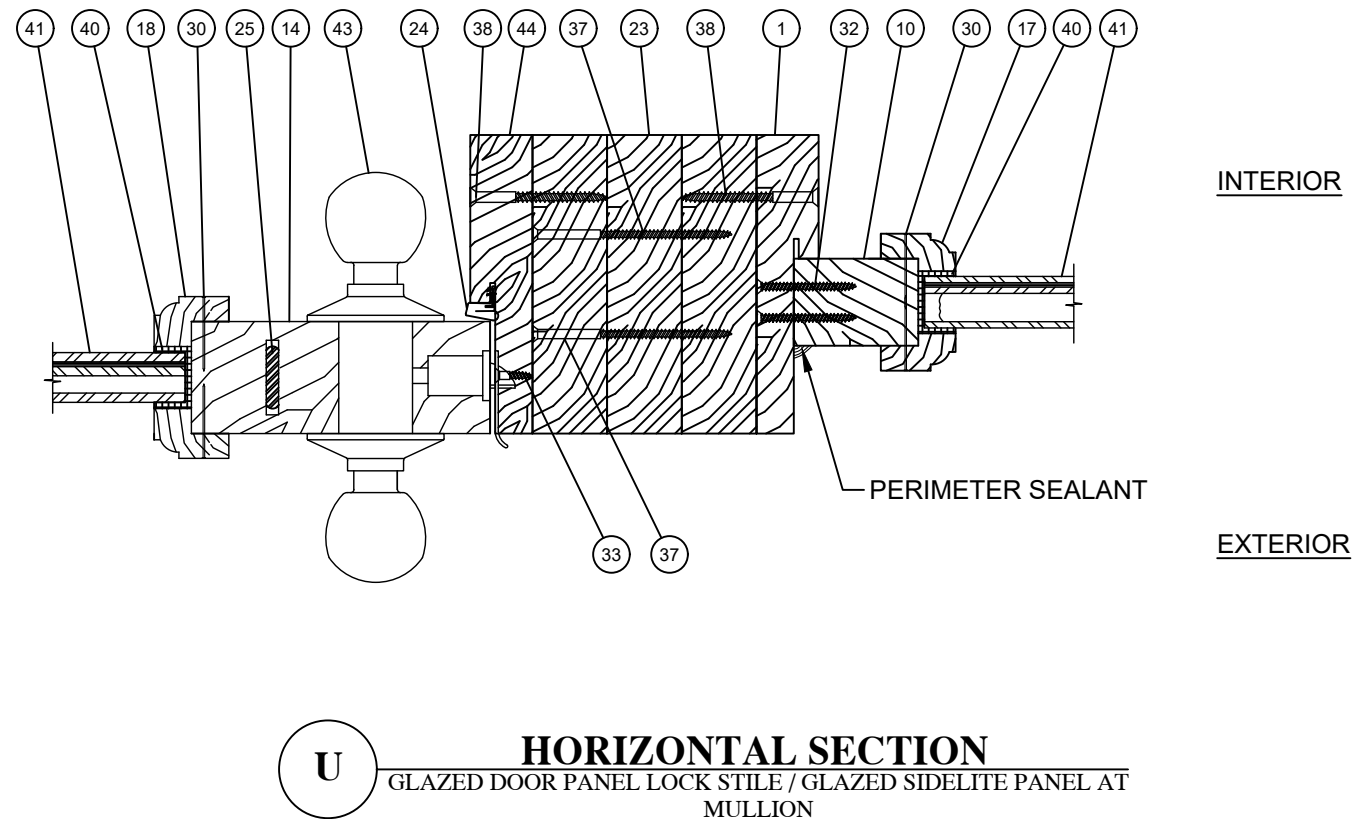
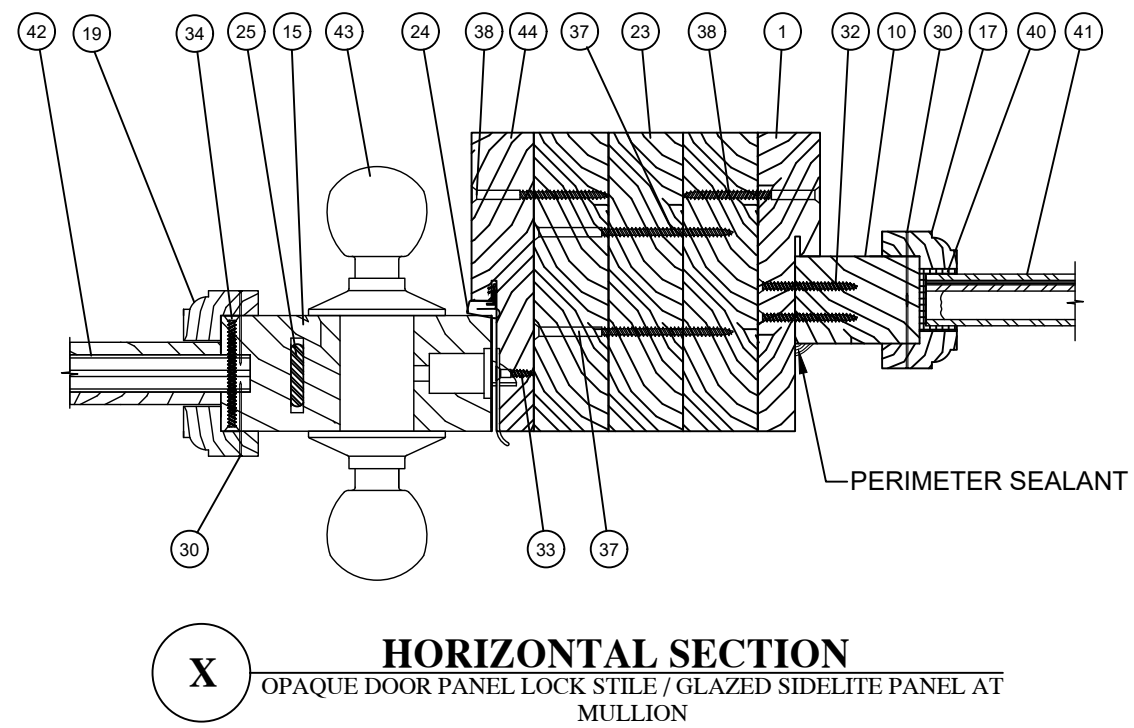
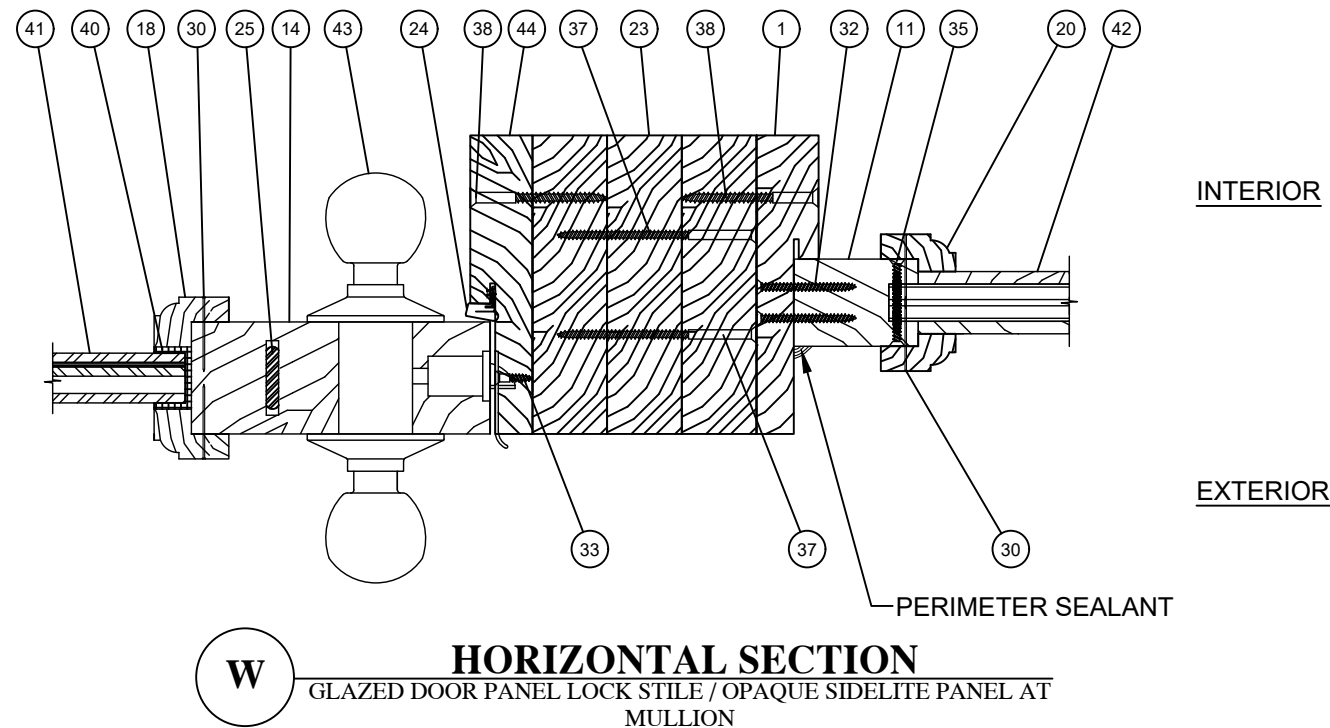
Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS
HORIZONTAL SECTIONS

PREPARED BY: **PTC**
DATE: 8/7/20
DRAWING NO: RW0065
SCALE: N.T.S.
SHEET: 15 OF 20
REV: ---
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 52075
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

Robert J. Amoruso, P.E.
Florida P.E. No. 49752





PROJECT #419-0909

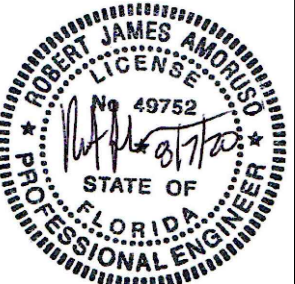
Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

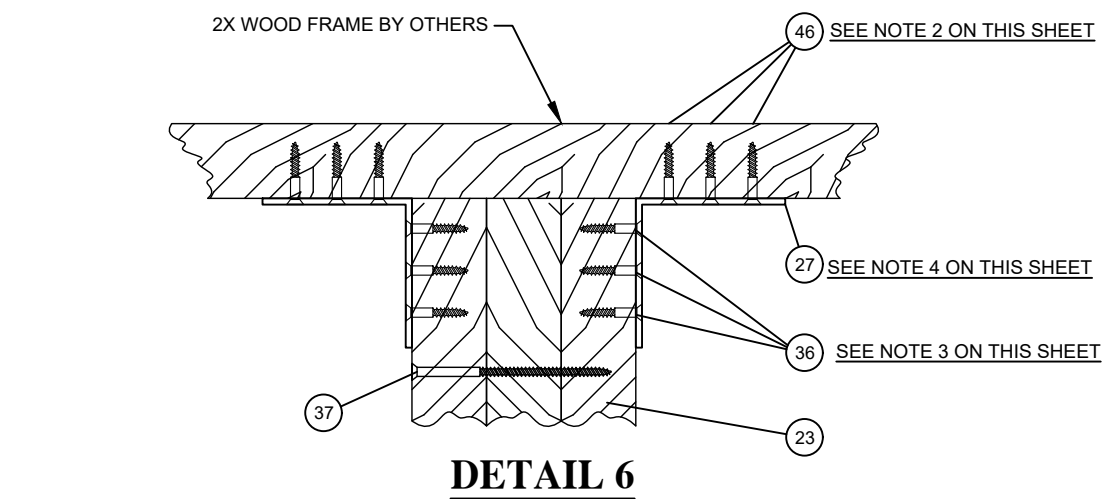
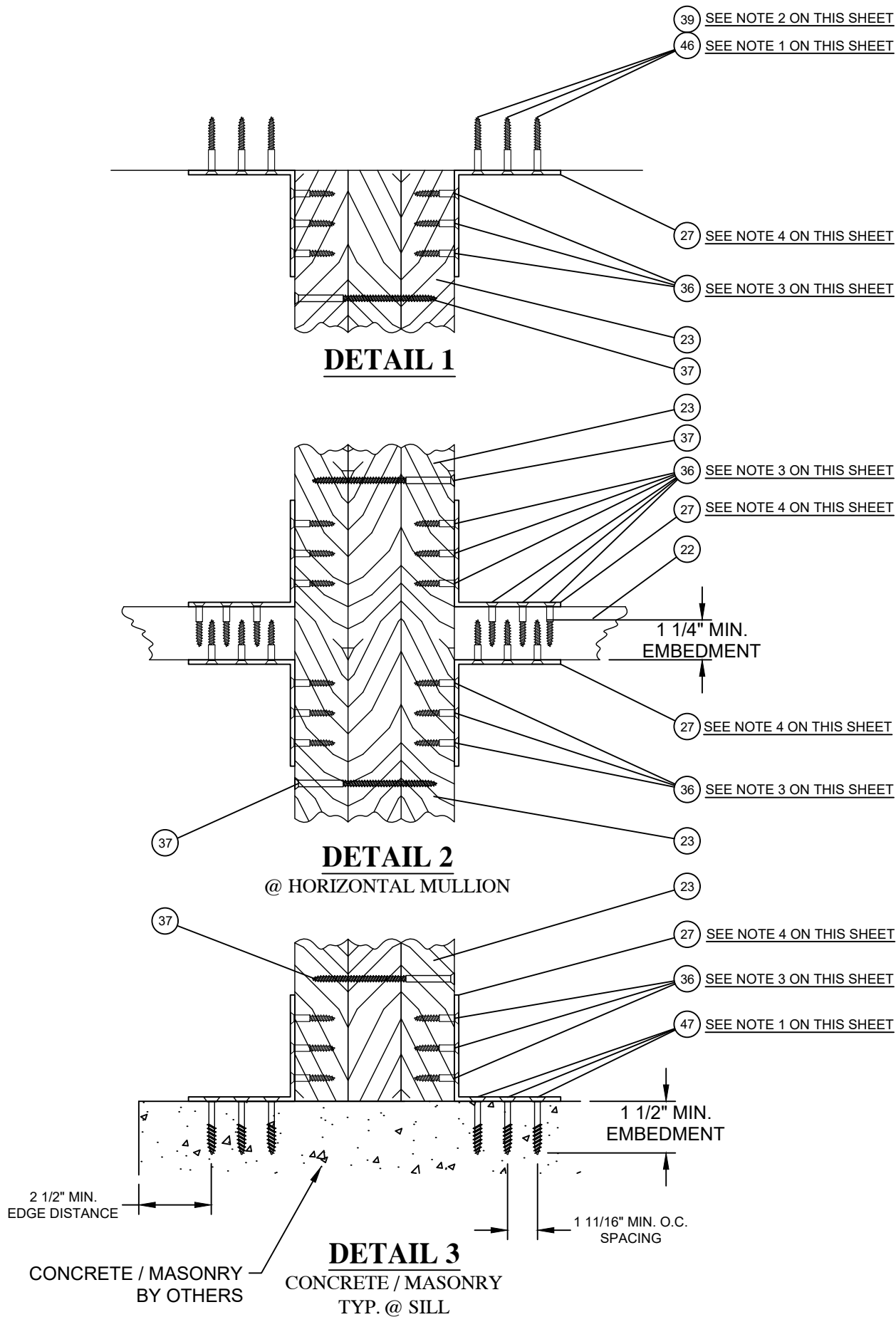
TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS
HORIZONTAL SECTIONS

PREPARED BY: **PTC**
DATE: 8/7/20
DRAWING NO: RW0065
SCALE: N.T.S.
SHEET: 16 OF 20
REV: ---

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 52075
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

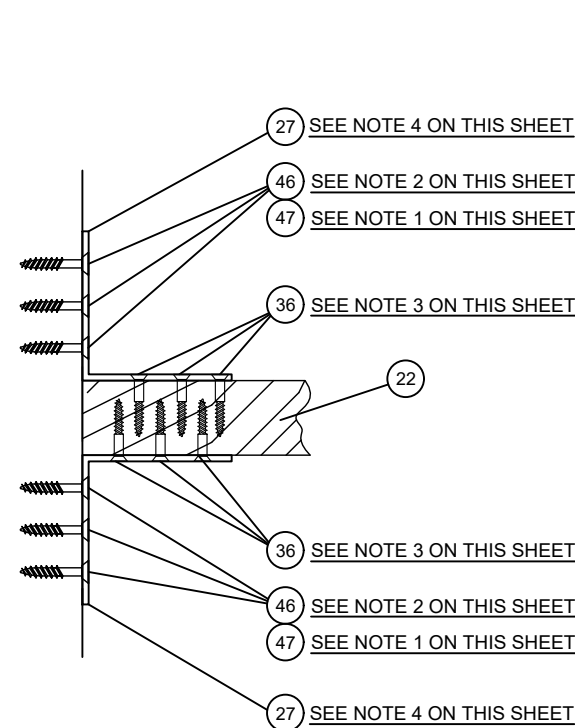
Robert J. Amoruso, P.E.
Florida P.E. No. 49752



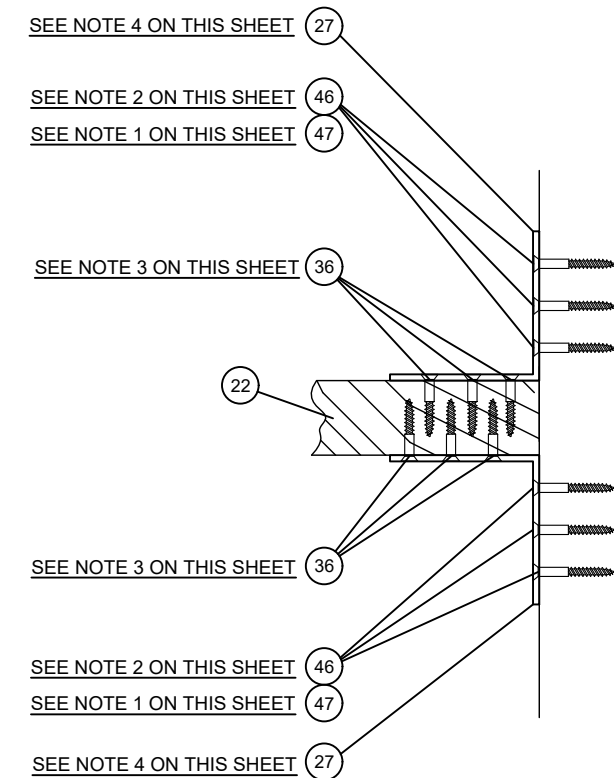


NOTES:

1. ATTACHMENT OF CLIP ANGLES TO CONCRETE SUBSTRATES ARE 1/4" FLAT HEAD POWERS TAPPERS W/ MIN. 1 3/8" ENGAGEMENT @ HEAD & JAMBS, MIN, 1 1/2" EMBEDMENT @ SILL, MIN. 2 1/2" EDGE DISTANCE & MIN. 1 11/16" O.C. SPACING.
2. ATTACHEMENT OF CLIP ANGLES TO WOOD SUBSTRATES ARE #12 FLAT HEAD WOOD SCREW W/ MIN. 1 1/2" EMBEDMENT, MIN. 7/8" EDGE DISTANCE & MIN. 1 11/16" O.C. SPACING.
3. ATTACHMENT OF CLIP ANGLES TO MULLIONS ARE #10 X 1-1/4" FLAT HEAD WOOD SCREW.
4. MULLION CLIP 1 SHOWN. MULLION CLIP 2 ALSO APPROVED FOR USE.



DETAIL 4



DETAIL 5

PROJECT #419-0909

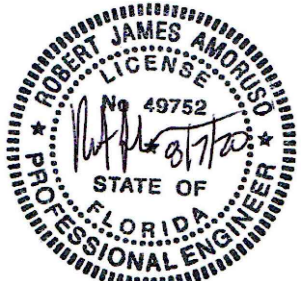
Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS
MULLION DETAILS

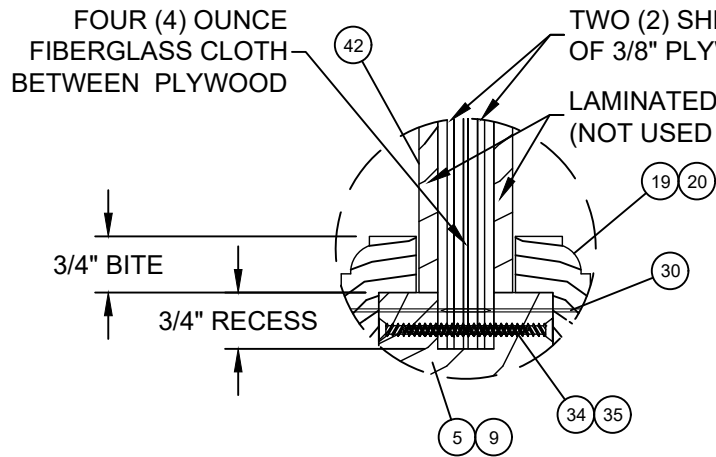
PREPARED BY: **RJA**
DATE: 8/7/20
DRAWING NO: RW0065
SHEET: 17 OF 20
REV: ---

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 52075
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

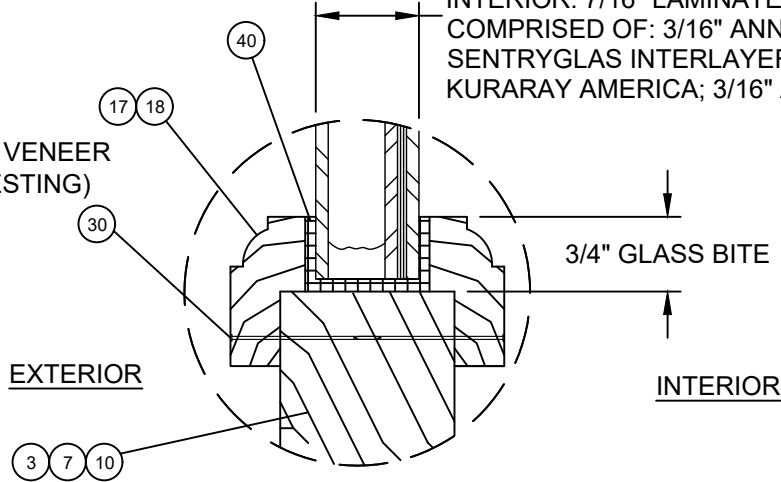
Robert J. Amoruso, P.E.
Florida P.E. No. 49752



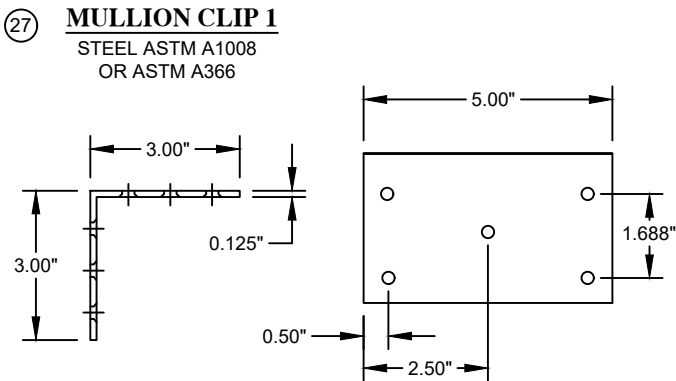
BILL OF MATERIALS			
ITEM #	PART #	DESCRIPTION	MATERIAL
1		SIDELITE / TRANSOM HEAD, SILL, JAMB FRAME	WOOD
2		TOP RAIL - GLAZED DOOR	WOOD
3		BOTTOM RAIL - GLAZED DOOR	WOOD
4		TOP RAIL - OPAQUE DOOR	WOOD
5		BOTTOM RAIL - OPAQUE DOOR	WOOD
6		TOP RAIL - GLAZED SIDELITE	WOOD
7		BOTTOM RAIL - GLAZED SIDELITE	WOOD
8		TOP RAIL - OPAQUE SIDELITE	WOOD
9		BOTTOM RAIL - OPAQUE SIDELITE	WOOD
10		SIDELITE STILE & TRANSOM SASH - GLAZED	WOOD
11		SIDELITE STILE - OPAQUE SIDELITE	WOOD
12		HINGE STILE - GLAZED DOOR	WOOD
13		HINGE STILE - OPAQUE DOOR	WOOD
14		LOCK STILE - GLAZED DOOR	WOOD
15		LOCK STILE - OPAQUE DOOR	WOOD
16		NOT USED	WOOD
17		GLAZING BEAD - TRANSOM & SIDELITE	WOOD
18		GLAZING BEAD - GLAZED DOOR	WOOD
19		PANEL STOP - OPAQUE DOOR	WOOD
20		PANEL STOP - OPAQUE SIDELITE	WOOD
21		NOT USED	WOOD
22		1.5" x 6" HORIZONTAL MULLION	WOOD
23		4.5" x 6" VERTICAL MULLION	WOOD
24		QLON WEATHERSTRIP	VINYL / FOAM
25		1/4" X 1 1/4" REINFORCEMENT	STEEL ASTM A1008 OR ASTM A366
26		DELTANA 18EFB OR IVE'S 458 EXTENSION FLUSH BOLT	STEEL
27		MULLION CLIP 1 AND MULLION CLIP 2	STEEL ASTM A1008 OR ASTM A366
28		OUTSWING THRESHOLD	WOOD / 6063-T5 ALUMINUM
29		4" X 4" HINGE	STEEL
30		8 GA. BRAD NAIL	STEEL
31		3/8" X 8" LAG BOLT	STEEL
32		#8 X 2" WOOD SCREW	STEEL
33		#8 X 3/4" WOOD SCREW	STEEL
34		#9 X 2" COARSE THREADWOOD SCREW	STEEL
35		#9 X 1 1/2" COARSE THREAD WOOD SCREW	STEEL
36		#10 X 1 1/4" WOOD SCREW	STEEL
37		#10 X 4" WOOD SCREW	STEEL
38		#10 WOOD SCREW - INSTALLATION ANCHOR	STEEL
39		#12 X 1 1/4" WOOD SCREW	STEEL
40		DOW CORNING 995	SILICONE
41		I.G.U. - SEE GLAZING DETAIL 1 ON THIS SHEET	GLASS
42		OPAQUE PANEL (SEE PANEL DETAIL 1 ON THIS SHEET)	WOOD
43		TESTED HARDWARE: EMTEK SERIES 3300 MORTISE LOCK, EMTEK SERIES 4400 CYLINDRICAL LOCK W/ EMTEK SERIES 8400 DEADBOLT, BALDWIN SERIES 6000 MORTISE LOCK, GU EUROPA R2 SERIES MULTI-POINT LOCKING HARDWARE	STEEL
44		MAIN DOOR HEAD, & JAMB FRAME	WOOD
45		1/4" ITW TAPCON INSTALLATION ANCHOR	STEEL
46		#12 WOOD SCREW INSTALLATION ANCHOR @ MULL CLIPS	STEEL
47		1/4" POWERS TAPPER INSTALLATION ANCHOR @ MULL CLIPS	STEEL
48		#8 X 1" WOOD SCREW	STEEL



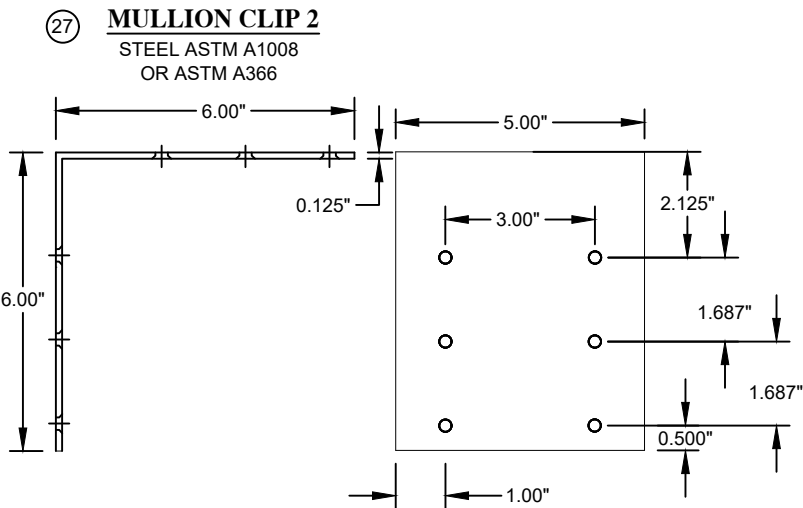
PANEL DETAIL 1



GLAZING DETAIL 1



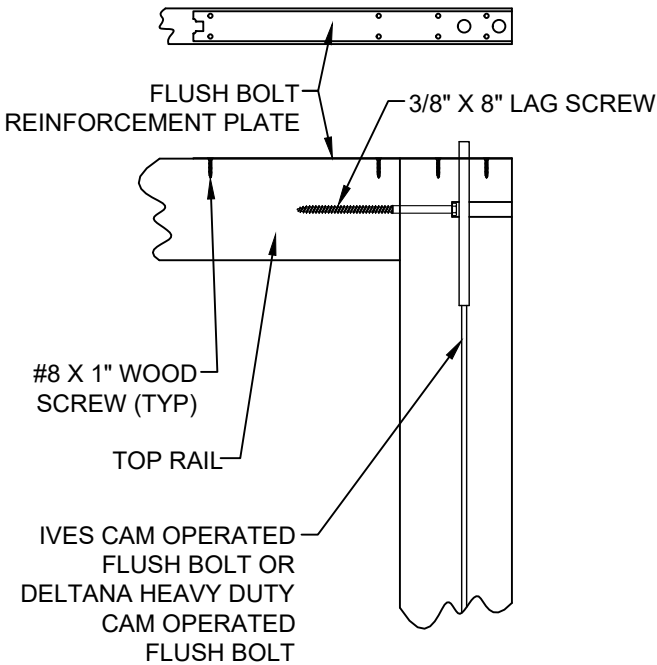
MULLION CLIP NOTE:
FASTENER HOLES ON MULLION SIDE OF ANCHOR MAY BE RELOCATED TO ALLOW BACK-TO-BACK INSTALLATIONS ON 2X MULLION AS SHOWN ON DETAIL 4 AND 5 ON SHEET 17. MINIMUM SPACING OF FASTENER HOLES ON MULLION SIDE OF CLIP SHALL BE 3/4". ON SUBSTRATE SIDE OF CLIP, FASTENER HOLE LOCATIONS SHALL REMAIN AS SHOWN.



1" O.A. INSULATED GLASS CONSISTING OF:
EXTERIOR: 1/8" TEMP. GLASS / AIR SPACE/
INTERIOR: 7/16" LAMINATED GLASS
COMPRISED OF: 3/16" ANN. GLASS; 0.090"
SENTRYGLAS INTERLAYER BY
KURARAY AMERICA; 3/16" ANN. GLASS

(4) #8 X 2" WOOD SCREWS
IN 2X WOOD FRAME

FLUSH BOLT
STRIKE PLATE



FLUSH BOLT DETAIL
SINGLE DOOR

PROJECT #419-0909				DATE	BY
				REV	DESCRIPTION

Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS
BILL OF MATERIALS, GLAZING DETAILS & FLUSH BOLT

DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

DATE: 8/7/20
DRAWING NO: RW0065
SHEET: 18 OF 20

PREPARED BY: PTC
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 52075
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

PTC

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

① SIDELITE HEAD, SILL & JAMB FRAME WOOD (0.44 MIN. S.G.) 	② TOP RAIL - GLAZED DOOR WOOD (0.44 MIN. S.G.) 	③ BOTTOM RAIL - GLAZED DOOR WOOD (0.44 MIN. S.G.) 	④ TOP RAIL - OPAQUE DOOR WOOD (0.44 MIN. S.G.) 	⑤ BOTTOM RAIL - OPAQUE DOOR WOOD (0.44 MIN. S.G.) 		
⑥ TOP RAIL - GLAZED SIDELITE WOOD (0.44 MIN. S.G.) 	⑦ BOTTOM RAIL - GLAZED SIDELITE WOOD (0.44 MIN. S.G.) 	⑧ TOP RAIL - OPAQUE SIDELITE WOOD (0.44 MIN. S.G.) 	⑨ BOTTOM RAIL - OPAQUE SIDELITE WOOD (0.44 MIN. S.G.) 	⑩ SIDELITE STILE & TRANSOM SASH GLAZED WOOD (0.44 MIN. S.G.) 		
⑪ STILE - OPAQUE SIDELITE WOOD (0.44 MIN. S.G.) 	⑫ HINGE STILE - GLAZED DOOR WOOD (0.44 MIN. S.G.) 	⑬ HINGE STILE - OPAQUE DOOR WOOD (0.44 MIN. S.G.) 	⑭ LOCK STILE - GLAZED DOOR WOOD (0.44 MIN. S.G.) 	⑮ LOCK STILE - OPAQUE DOOR WOOD (0.44 MIN. S.G.) 		
⑰ GLAZING BEAD - TRANSOM & SIDELITE WOOD (0.44 MIN. S.G.) 	⑲ PANEL STOP - OPAQUE DOOR WOOD (0.44 MIN. S.G.) 	⑳ PANEL STOP - OPAQUE SIDELITE WOOD (0.44 MIN. S.G.) 		㉔ WEATHERSTRIP VINYL / FOAM 	㉕ 1/4" X 1-1/4" REINFORCEMENT STEEL ASTM A1008 OR ASTM A366 	④④ DOOR FRAME JAMB WOOD (0.44 MIN. S.G.)
⑱ GLAZING BEAD - GLAZED DOOR WOOD (0.44 MIN. S.G.) 	㉔ OUTSWING THRESHOLD 6063-T5 ALUMINUM / WOOD 		㉕ 4" X 4" HINGE STEEL 	㉖ DELTANA 18EFB EXTENSION FLUSH BOLT OR IVE'S 458 EXTENSION FLUSHBOLT STEEL 		

PROJECT #419-0909

Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS

COMPONENTS

DRAWN BY: RJA

DATE: 8/7/20

SCALE: N.T.S.

DRAWING NO: RW0065

REV: ---

SHEET: 19 OF 20

BY: DATE

DESCRIPTION

REV

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

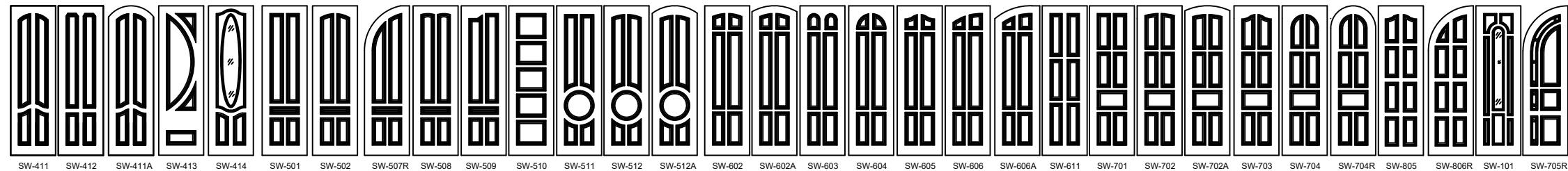
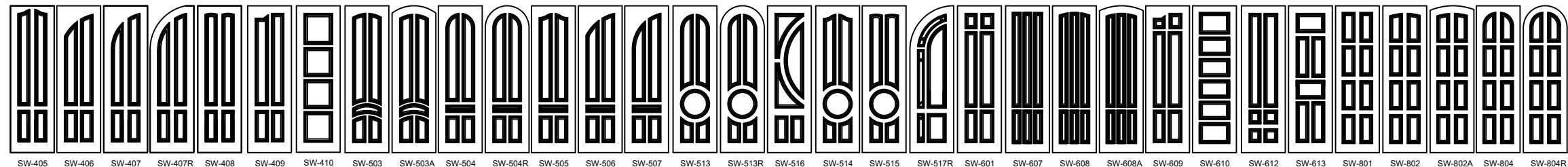
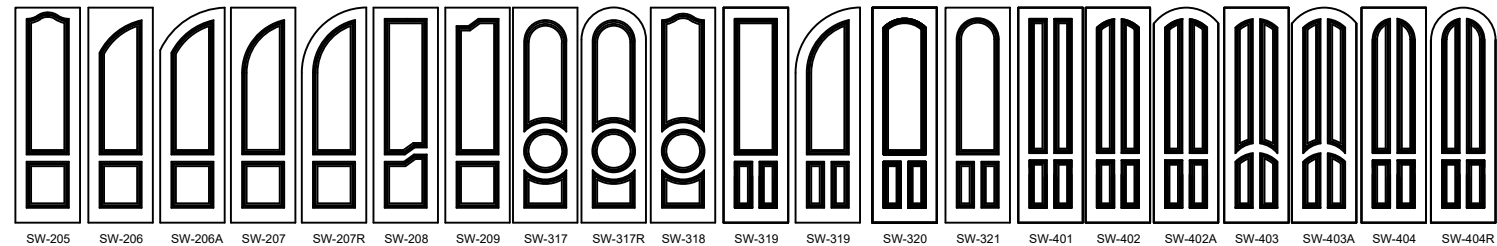
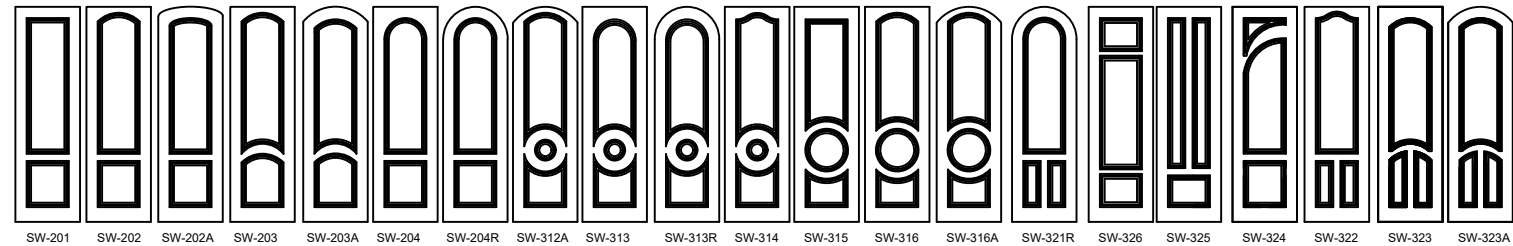
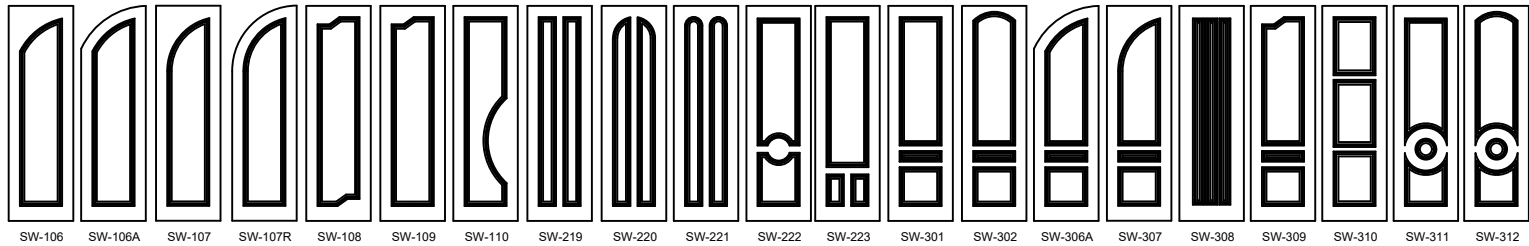
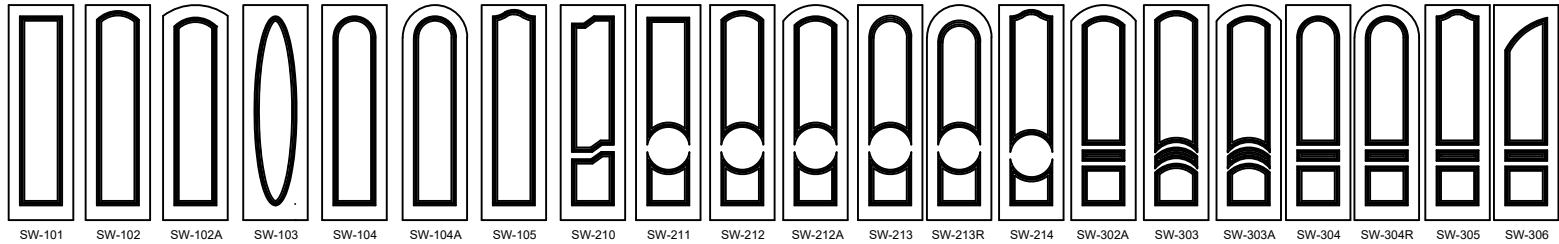
PROFESSIONAL ENGINEER

STATE OF FLORIDA

No. 49752

Robert J. Amoruso

LICENSE



OPTIONAL CONFIGURATIONS
ACTUAL PANEL DESIGN NOT LIMITED
TO THESE CONFIGURATIONS ILLUSTRATED

PROJECT #419-0909

Real Woods Inc.
1230 N. East Ave
Sarasota, FL 34237

TITLE: 2 1/4" IMPACT OUTSWING GLAZED & OPAQUE SINGLE DOOR W/ SIDELITES & TRANSOMS

DATE: 8/7/20

DRAWING NO: RW0065

SHEET: 20 OF 20

REV: ---

DESCRIPTION

DATE

BY

OPTIONAL CONFIGURATIONS

PREPARED BY:

PO BOX 52075
LONGWOOD, FLORIDA 32752
PTE C/A NO. 23355

DRAWN BY: RJA

SCALE: N.T.S.

REV: ---

PTC PRODUCT DESIGN GROUP, LLC

Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

PROF. ENGINEER

STATE OF FLORIDA

NO. 49752

ROBERT J. AMORUSO