

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED PER NEW REQUIREMENTS	11/14/2023	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1–1/2” OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS.
5. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
6. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16” OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4”.
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 4 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER’S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:

A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42

B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.

C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).

D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 1/8” THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 3	ELEVATIONS
4	B.O.M., CROSS SECTIONS & GLAZING DETAIL
5 – 10	INSTALLATION DETAILS
11	COMPONENTS

REILLY WINDOWS & DOORS
901 BURMAN BLVD., BLDG 701
CALVERTON, NY 11933

RWD WOOD FIXED UNITS
IMPACT HVHZ
NOTES

DRAWN:
J.L.

DWG NO.
08–02475

REV
C

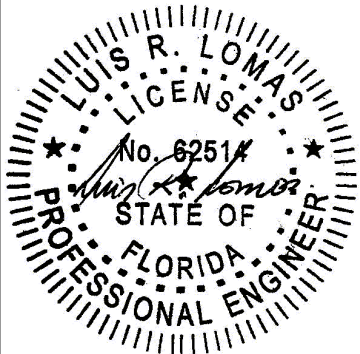
SCALE NTS

DATE 08/03/2014

SHEET 1 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/14/2023

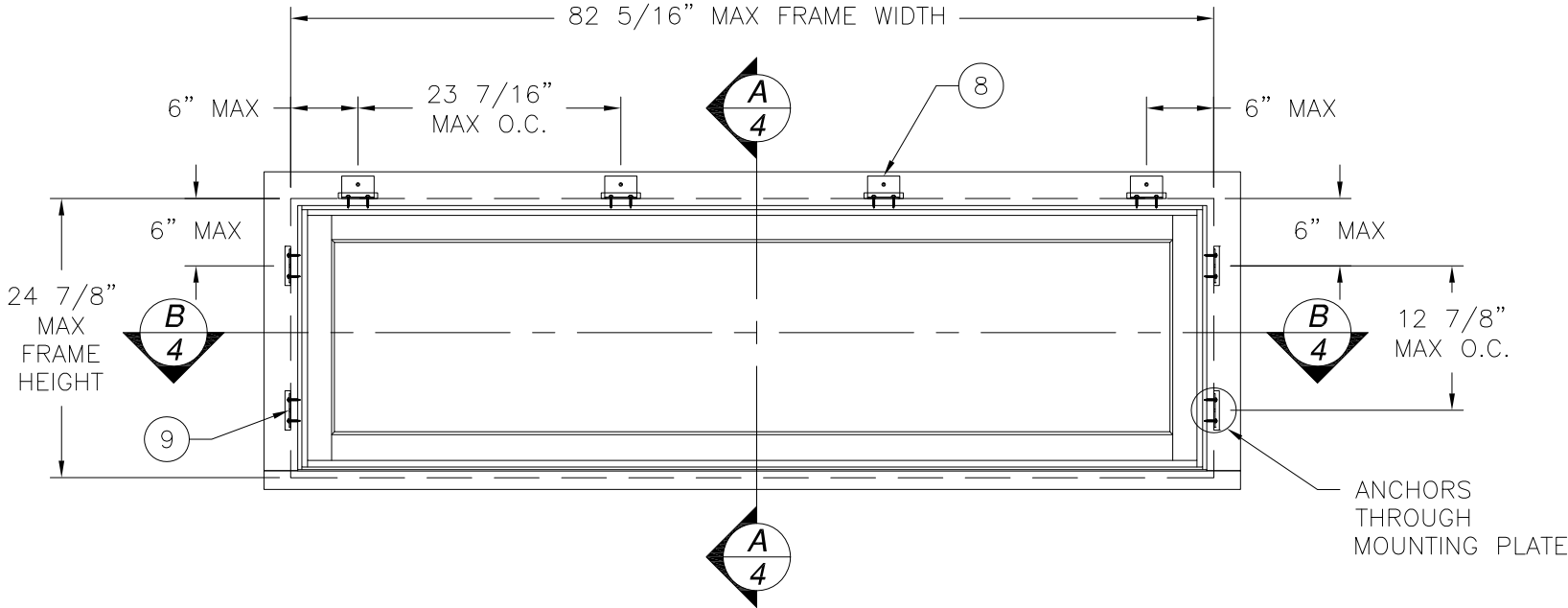


Luis R. Lomas P.E.
FL No.: 62514

CHART #1

Maximum design pressure capacity chart (psf)

Frame Height (in)	Frame width (in)																																
	30.00		36.00		42.00		48.00		54.00		60.00		66.00		72.00		78.00		82.31		90.00		96.00		102.00		108.00		114.00		120.00		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
12.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	
16.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	
18.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	-	-	
24.88	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.5	74.5	71.7	71.7	69.6	69.6	68.0	68.0	66.7	66.7	65.6	65.6	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-
30.00	75.0	75.0	75.0	75.0	71.2	71.2	66.5	66.5	63.3	63.3	61.0	61.0	59.2	59.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36.00	75.0	75.0	75.0	75.0	66.7	66.7	61.0	61.0	57.2	57.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



RWD WOOD FIXED TRANSOM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
SEE CHART #1 FOR SMALLER UNITS RATINGS.

- NOTES:
- FRAME HEAD TO JAMB CORNERS WERE COPED, BUTTED AND JOINED TOGETHER WITH #10X4-3/4" WOOD SCREWS AND SEALED WITH BINDAN D4.
 - SILL TO JAMB CORNERS ARE COPED, BUTTED AND JOINED WITH M8X1-9/16" MACHINE SCREWS THROUGH SILL INTO JAMBS THREADED INSERTS AND SEALED WITH SG20 SILICONE.
 - RAILS AND STILES ARE COPED, BUTTED AND JOINED WITH .394"X3.150" DOWELS, GLUED AND SEALED WITH BINDAN D4.
 - HINGES ARE LOCATED 6" FROM EACH END AND 23 7/16" MAX O.C. THERAFTER.
 - D.L.O. SIZE: 74 1/2" X 16 7/8"
 - WEEP SYSTEM: A DRIP LEG IS ADDED BELOW WINDOW UNIT.

REILLY WINDOWS & DOORS
901 BURMAN BLVD., BLDG 701
CALVERTON, NY 11933

RWD WOOD FIXED UNITS
IMPACT HVHZ
ELEVATION

DRAWN:
J.L.

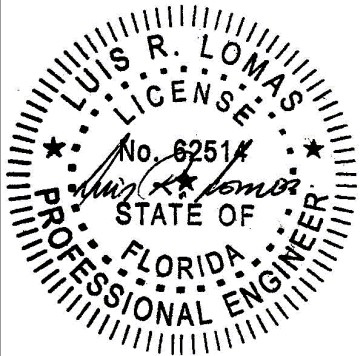
DWG NO.
08-02475

REV
C

SCALE NTS DATE 08/03/2014 SHEET 2 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

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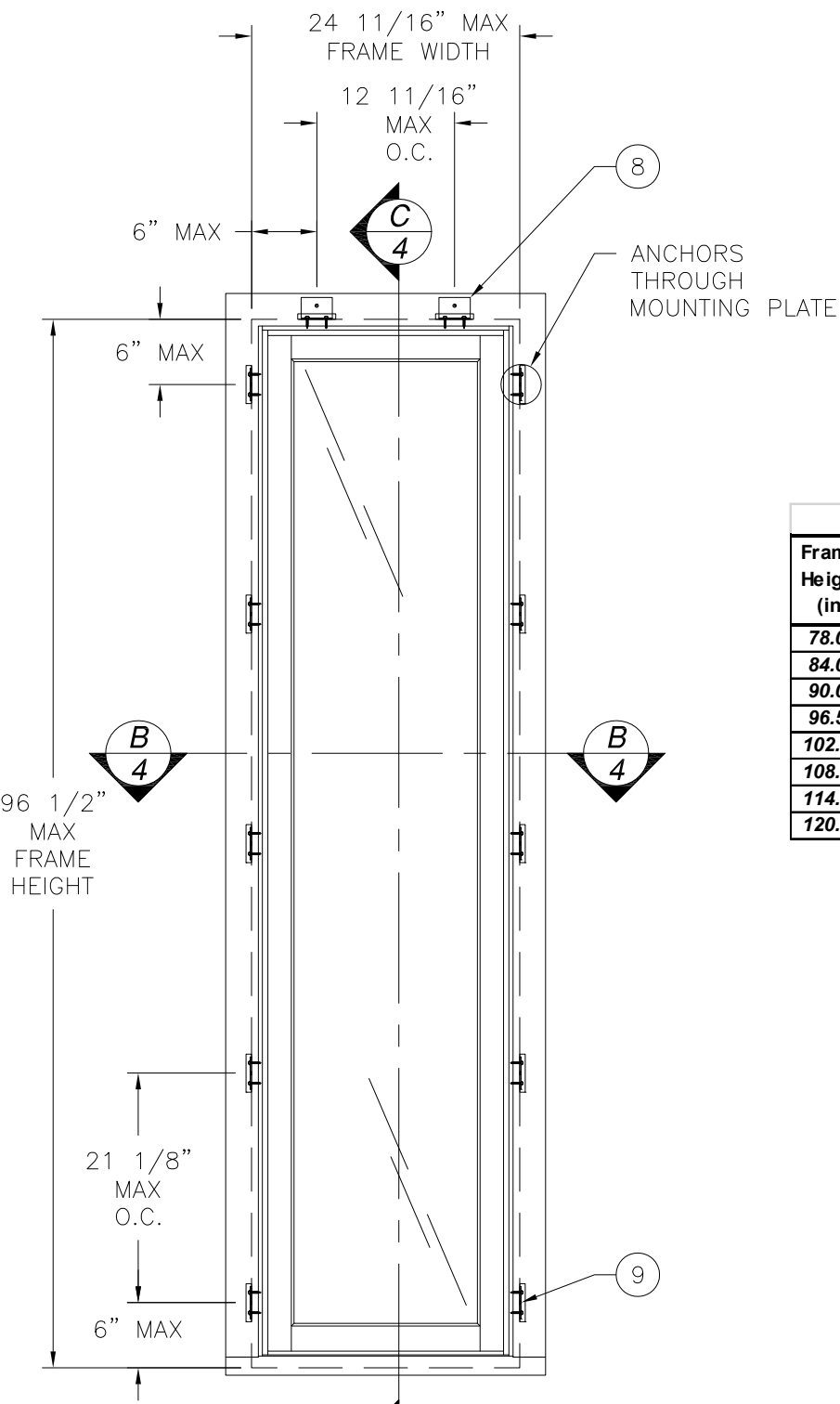


CHART #2

Maximum design pressure capacity chart (psf)

Frame Height (in)	Frame width (in)									
	12.00		16.00		18.00		24.69		30.50	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.00	75.0	75.0	75.0	75.0	75.0	75.0	67.3	67.3	57.0	57.0
84.00	75.0	75.0	75.0	75.0	75.0	75.0	66.5	66.5	-	-
90.00	75.0	75.0	75.0	75.0	75.0	75.0	65.7	65.7	-	-
96.50	75.0	75.0	75.0	75.0	75.0	75.0	65.0	65.0	-	-
102.00	75.0	75.0	75.0	75.0	75.0	75.0	-	-	-	-
108.00	75.0	75.0	75.0	75.0	75.0	75.0	-	-	-	-
114.00	75.0	75.0	75.0	75.0	75.0	75.0	-	-	-	-
120.00	75.0	75.0	75.0	75.0	75.0	75.0	-	-	-	-

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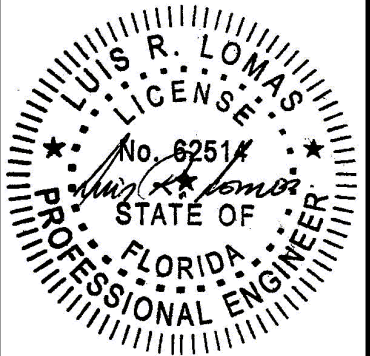
REILLY WINDOWS & DOORS
901 BURMAN BLVD., BLDG 701
CALVERTON, NY 11933

RWD WOOD FIXED UNITS
IMPACT HVHZ
ELEVATION

DRAWN: J.L.	DWG NO. 08-02475	REV C
SCALE NTS	DATE 08/03/2014	SHEET 3 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

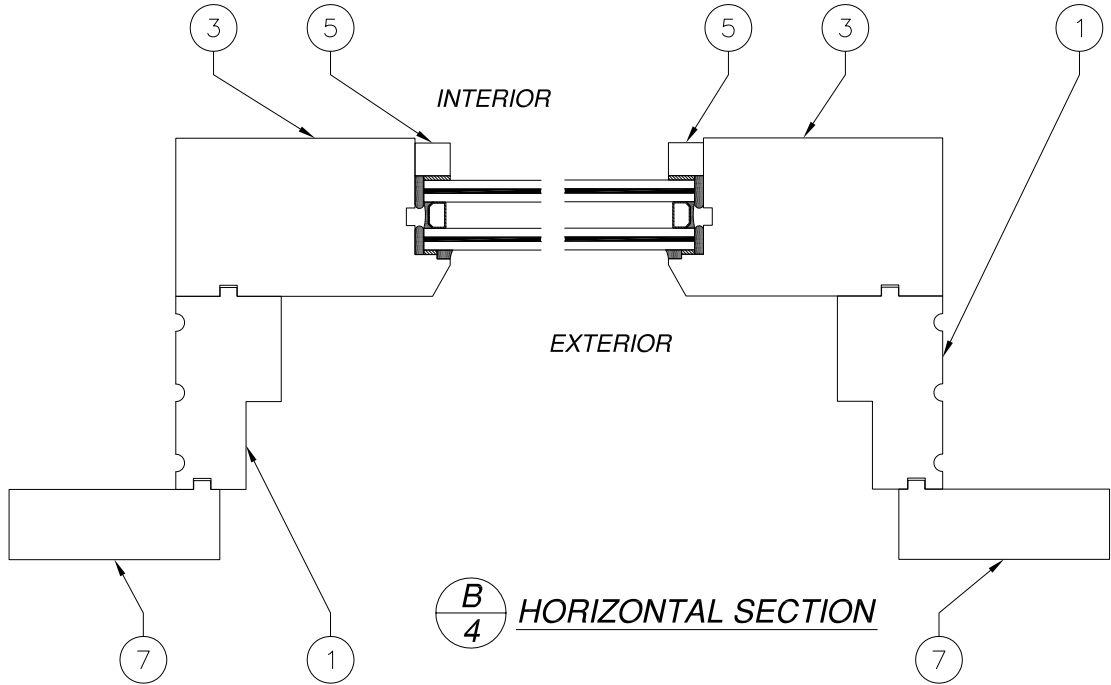
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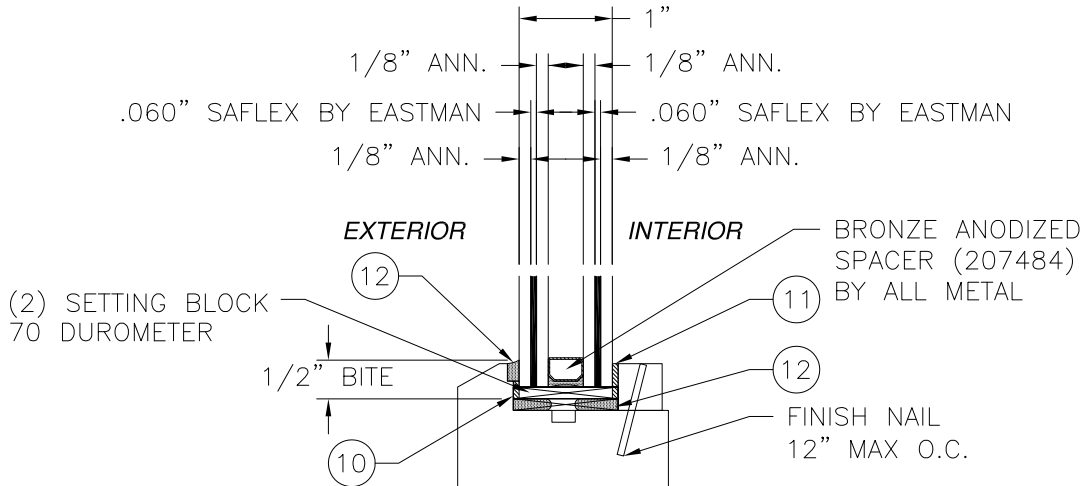
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BILL OF MATERIALS				
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	JX2.7	FRAME	RWD	MAHOGANY
2	SX2.7A	SILL FRAME	RWD	MAHOGANY
3	B3.4	STILE	RWD	MAHOGANY
4	B3.59B	BOTTOM RAIL	RWD	MAHOGANY
5	GSA	GLASS STOP	RWD	MAHOGANY
6	SN1.7	SILL NOSING	RWD	MAHOGANY
7	CA3	CASING	RWD	MAHOGANY
8	CMAB-1	ANGLE MOUNTING BRACKET	RWD	ALUMINUM 6063-T5
9	CMV-1	MOUNTING BRACKET	RWD	ALUMINUM 6063-T5
10	6116-WH-1875	GLAZING TAPE 1/16"X3/16"	LAMATEK	
11	6116-WH-375	GLAZING TAPE 1/16"X3/8"	LAMATEK	
12	995	STRUCTURAL CAULK	DOW CORNING	SILICONE
13		#8X1-1/4" OH SCREW	RWD	BRASS
14	SX2.7	SILL FRAME	RWD	MAHOGANY
15	B3.59A	BOTTOM RAIL	RWD	MAHOGANY

ITEMS 8 & 9 ARE USED BUT NOT SHOWN

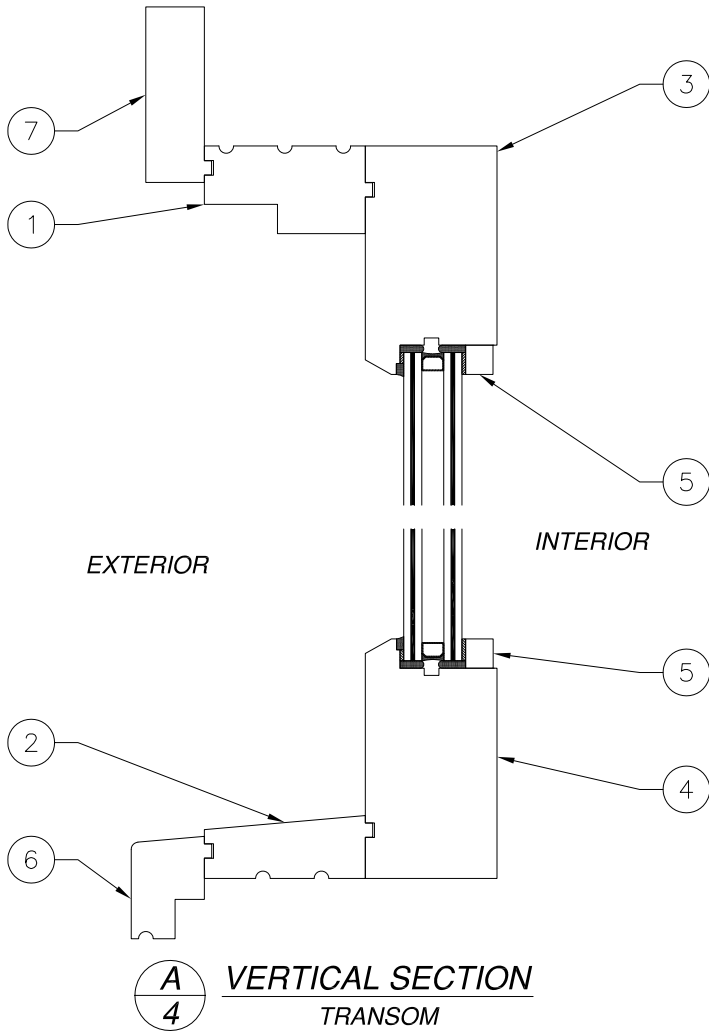


B
4 HORIZONTAL SECTION

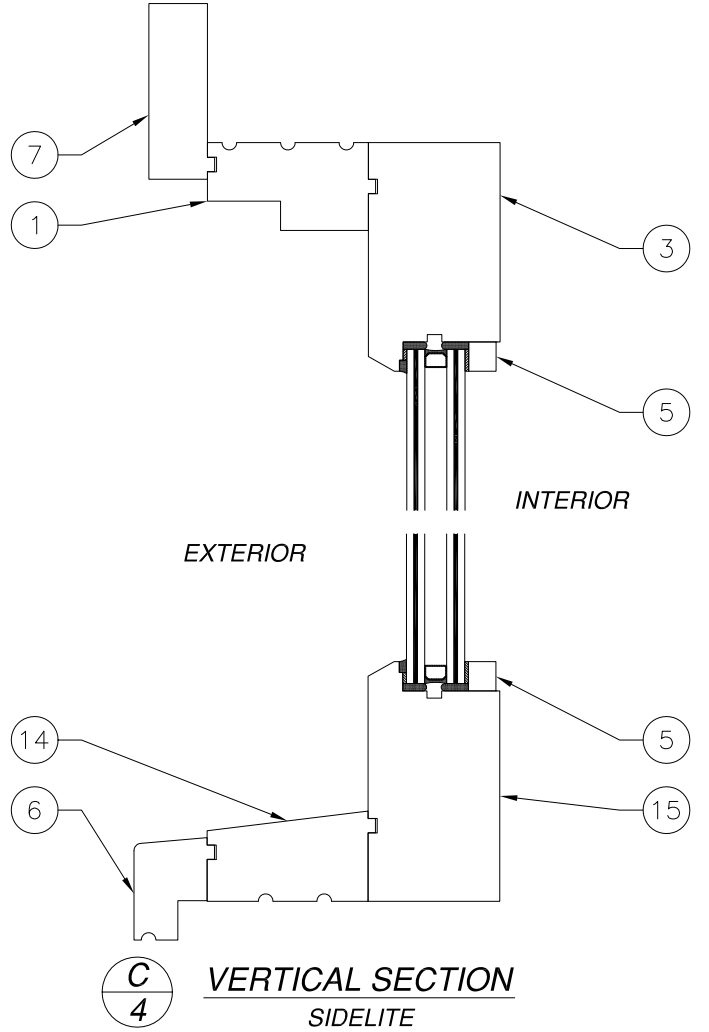


GLAZING DETAIL

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 5 - 7



A
4 VERTICAL SECTION
TRANSOM



C
4 VERTICAL SECTION
SIDELITE

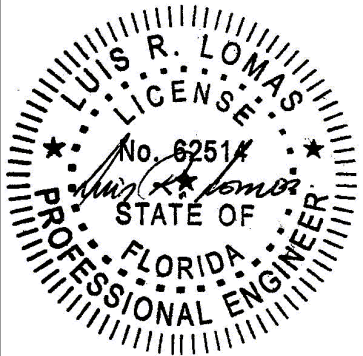
REILLY WINDOWS & DOORS
901 BURMAN BLVD., BLDG 701
CALVERTON, NY 11933

RWD WOOD FIXED UNITS
IMPACT HVHZ
B.O.M., GLAZING DETAIL & CROSS SECTIONS

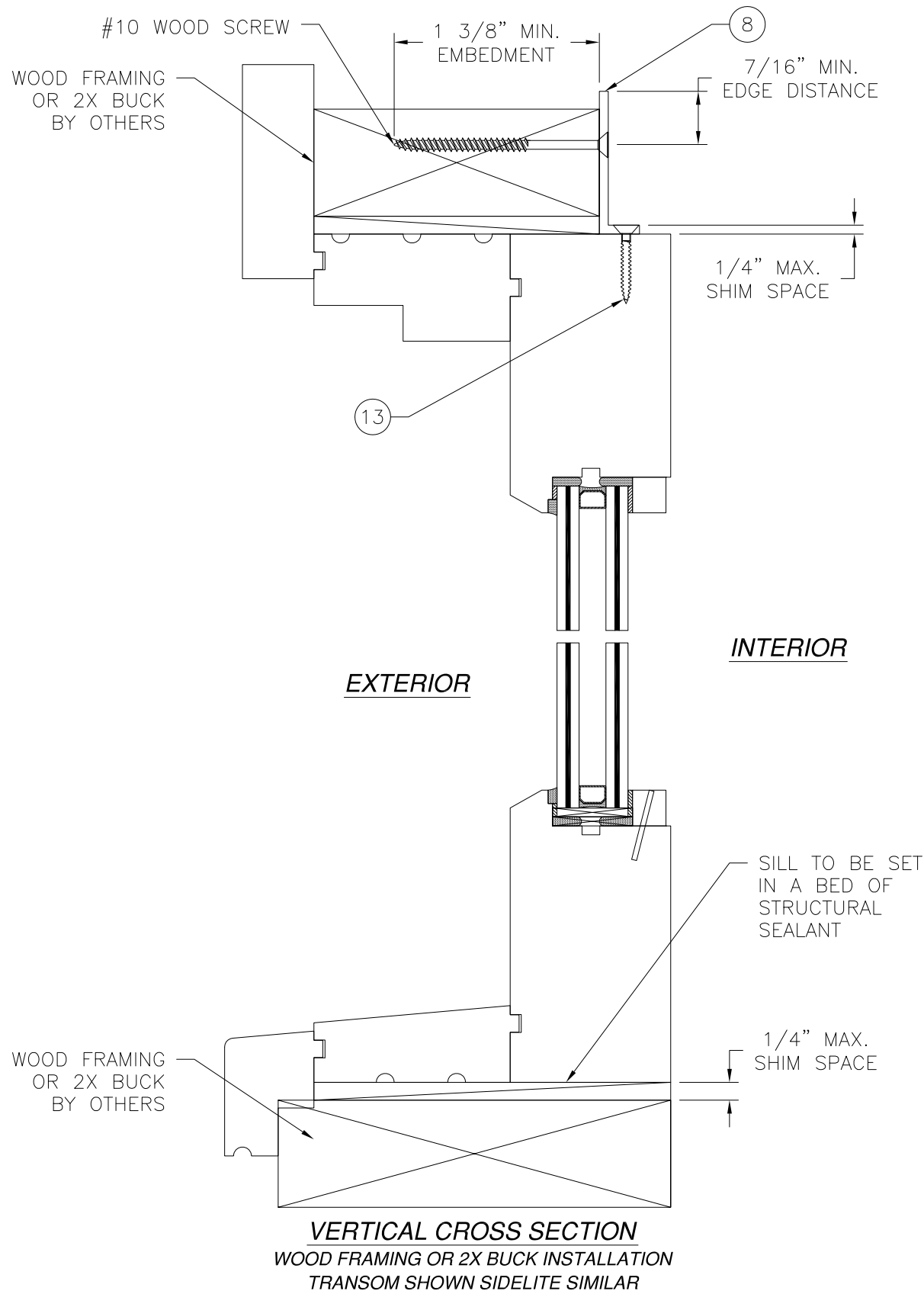
DRAWN: J.L.	DWG NO. 08-02475	REV C
SCALE NTS	DATE 08/03/2014	SHEET 4 OF 11

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1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

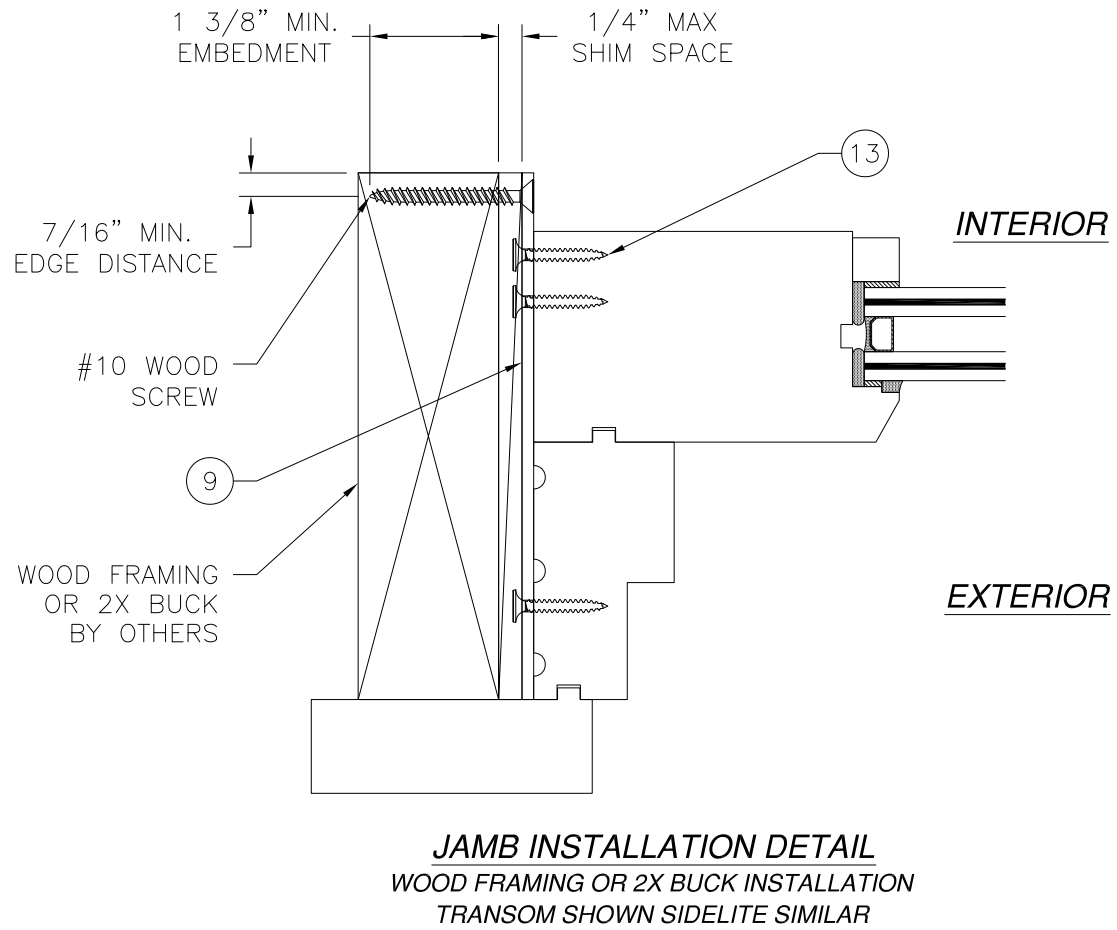
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FL No.: 62514



NOTES:
 1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



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CALVERTON, NY 11933

RWD WOOD FIXED UNITS
IMPACT HVHZ
INSTALLATION DETAILS

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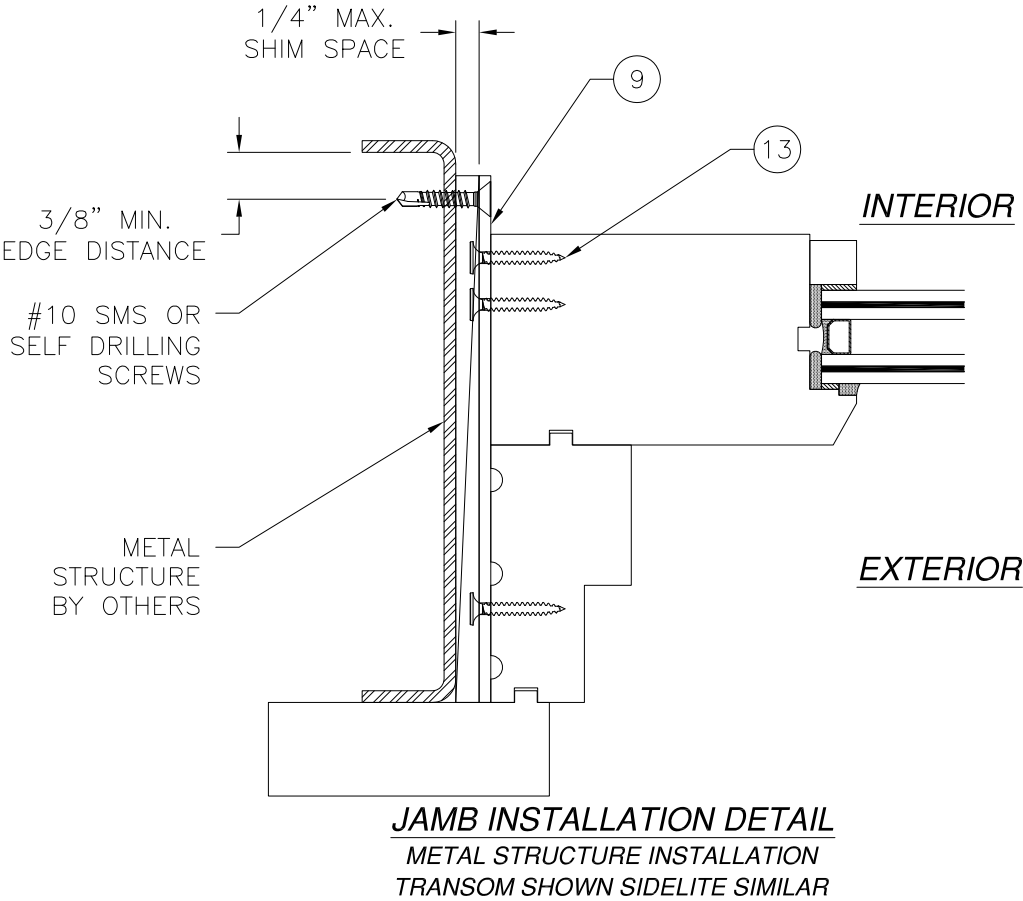
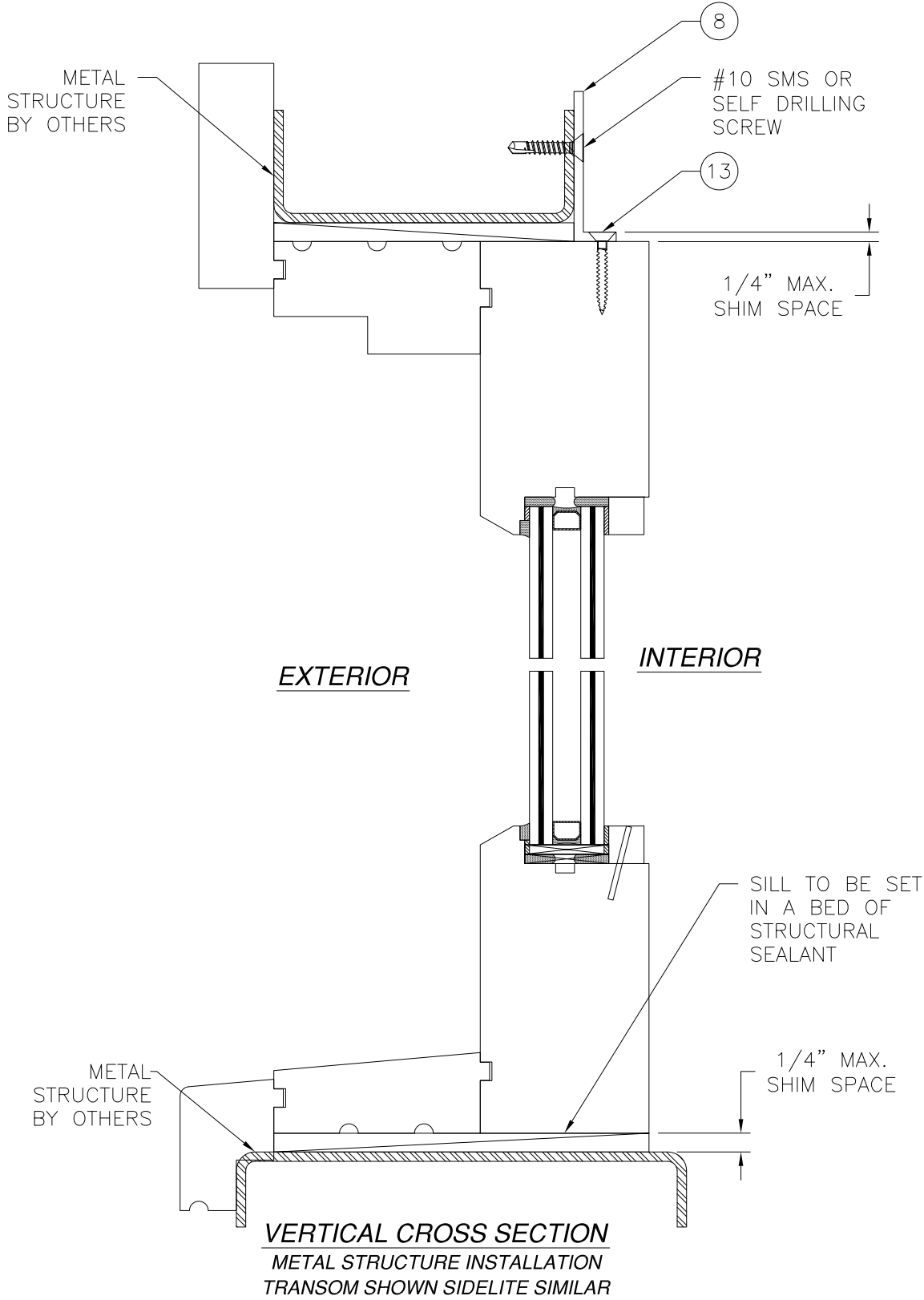
SHEET 5 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

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FL No.: 62514

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RWD WOOD FIXED UNITS
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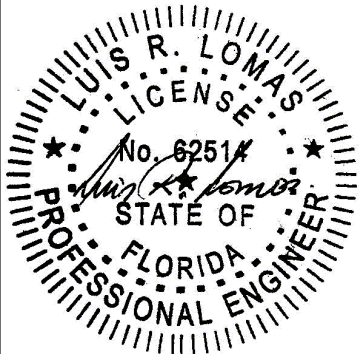
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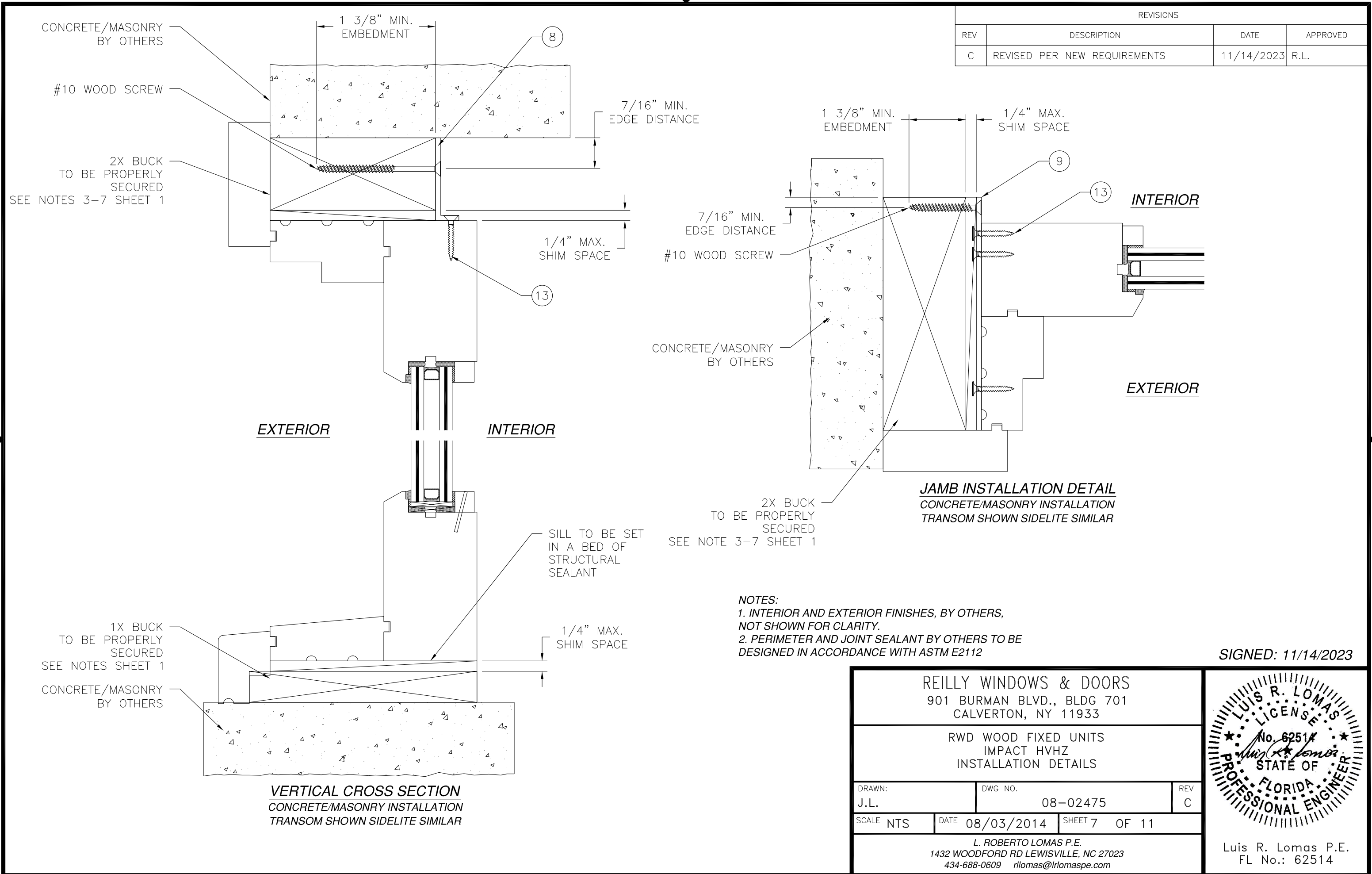
SHEET
6 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

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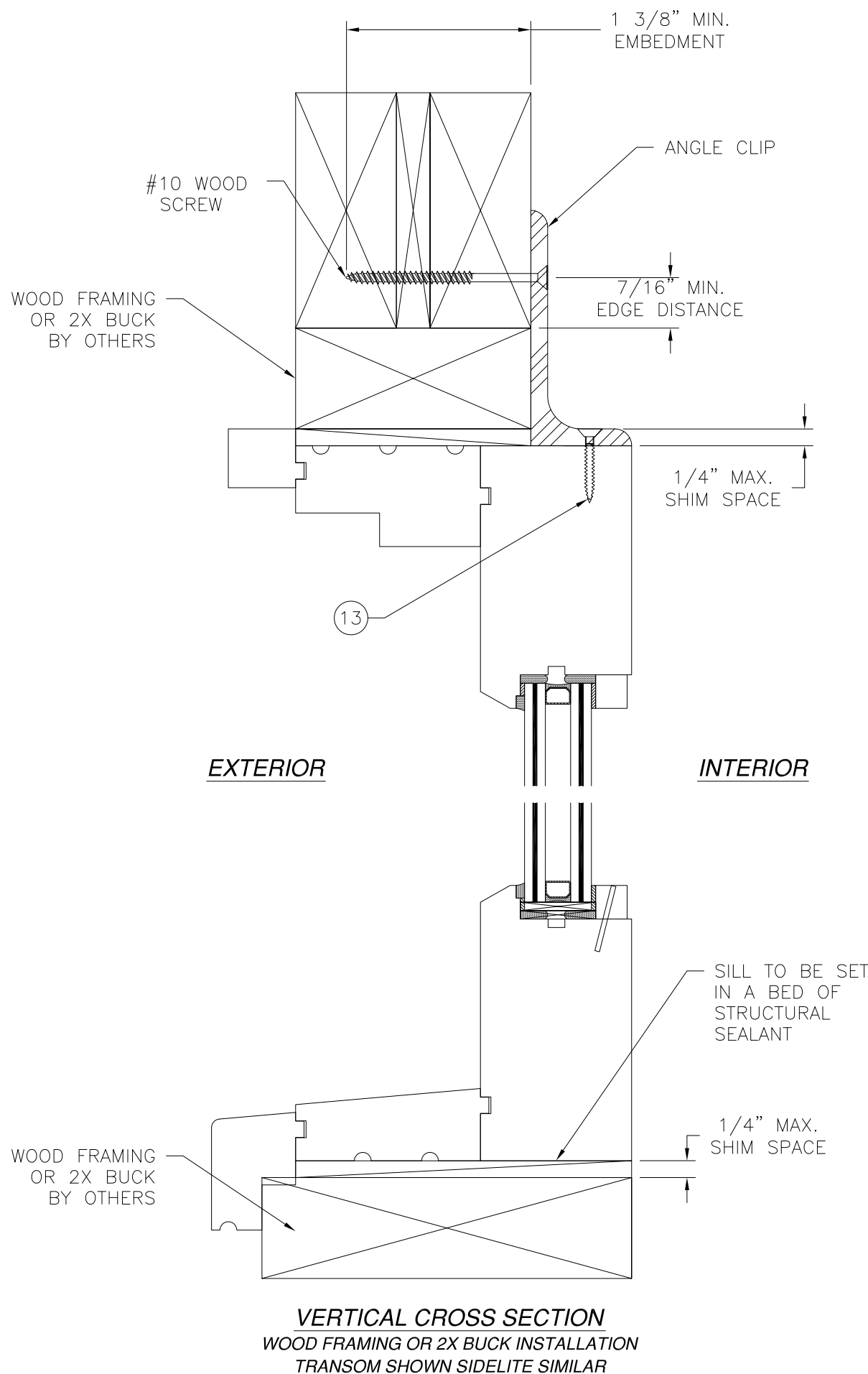
RWD WOOD FIXED UNITS
IMPACT HVHZ
INSTALLATION DETAILS

DRAWN: J.L.	DWG NO. 08-02475	REV C
SCALE NTS	DATE 08/03/2014	SHEET 7 OF 11

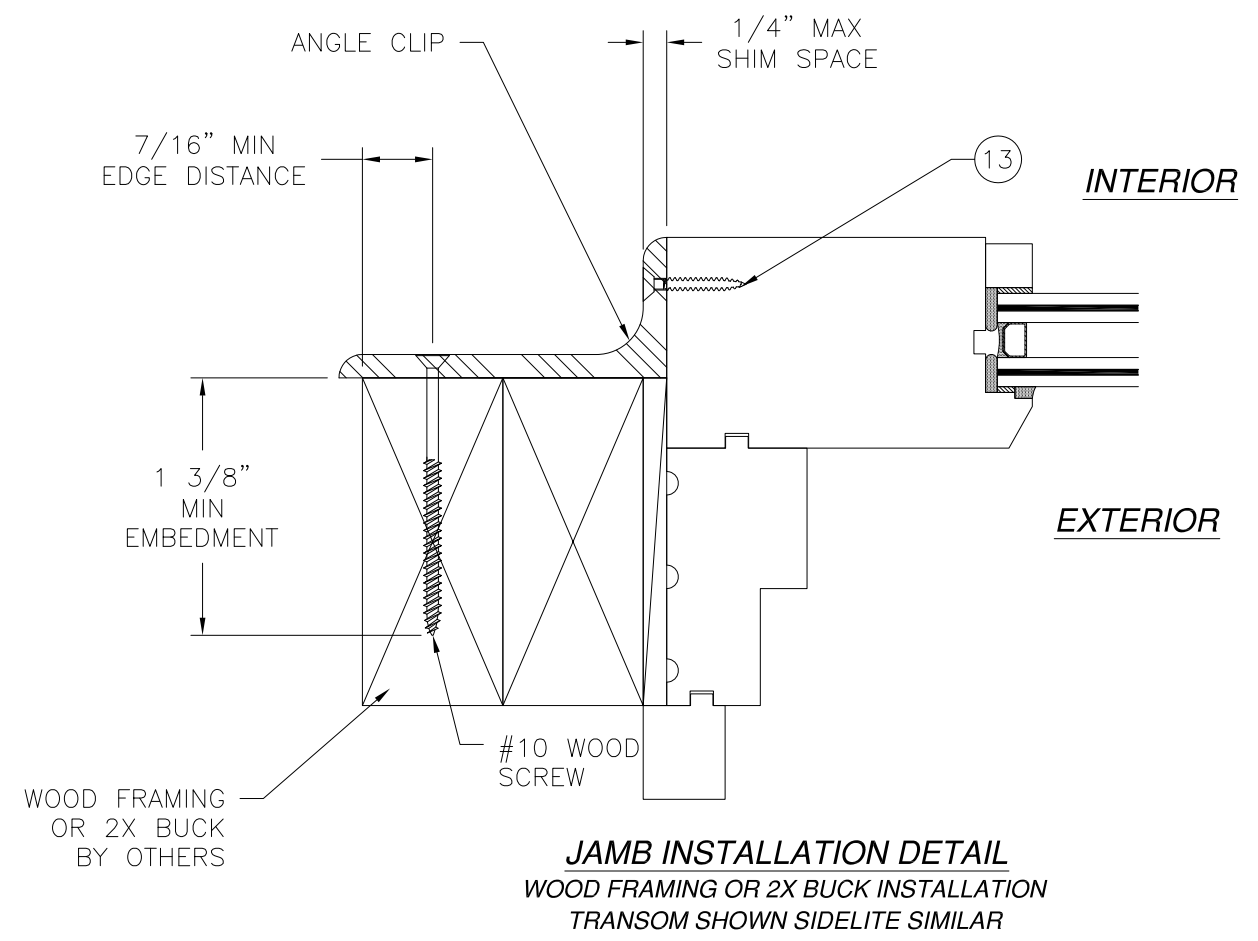
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

LUIS R. LOMAS
LICENSED PROFESSIONAL ENGINEER
No. 62514
STATE OF FLORIDA

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RWD WOOD FIXED UNITS
IMPACT HVHZ
INSTALLATION DETAILS

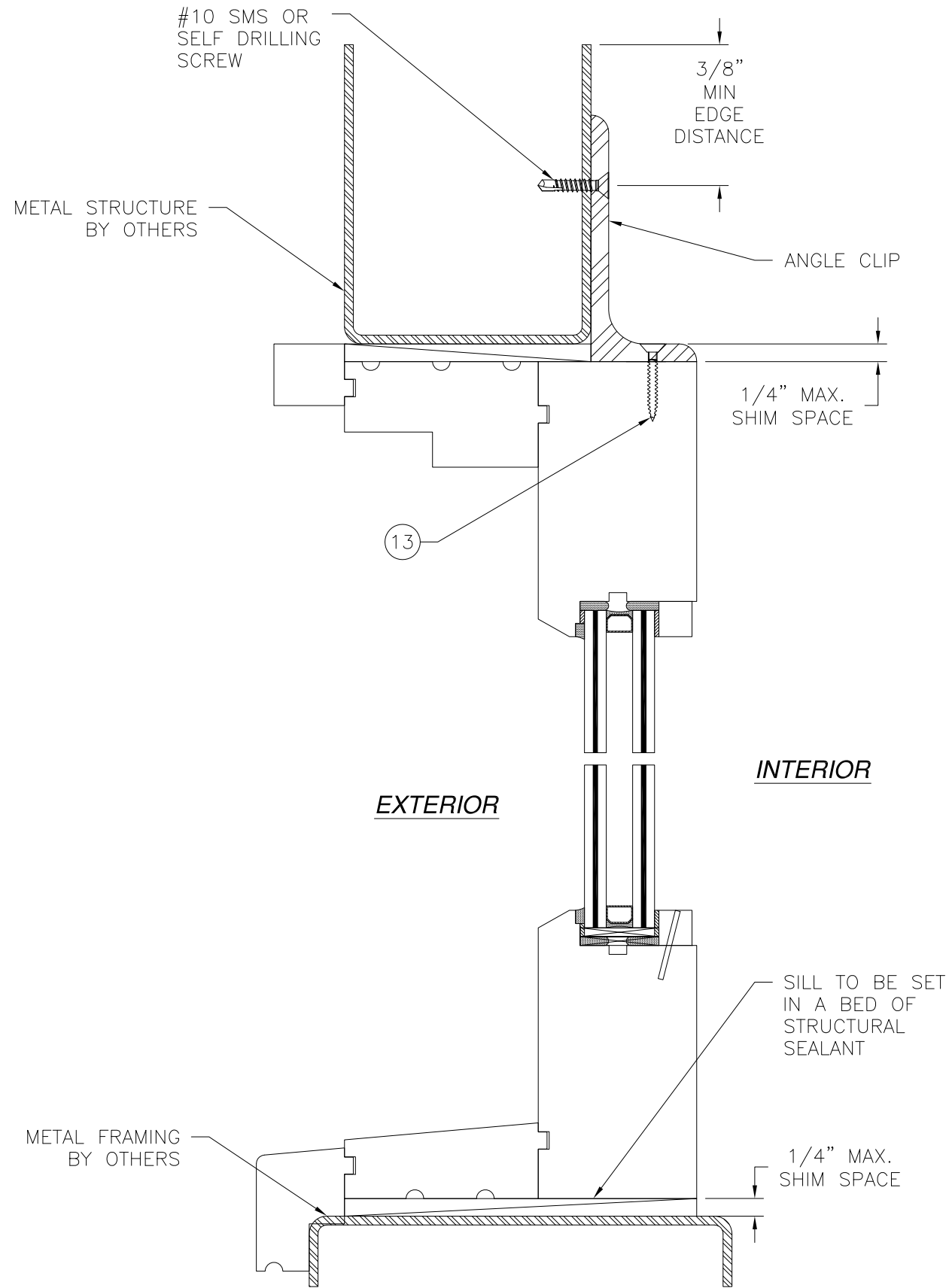
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SHEET 8 OF 11

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434-688-0609 rllomas@rlomaspe.com

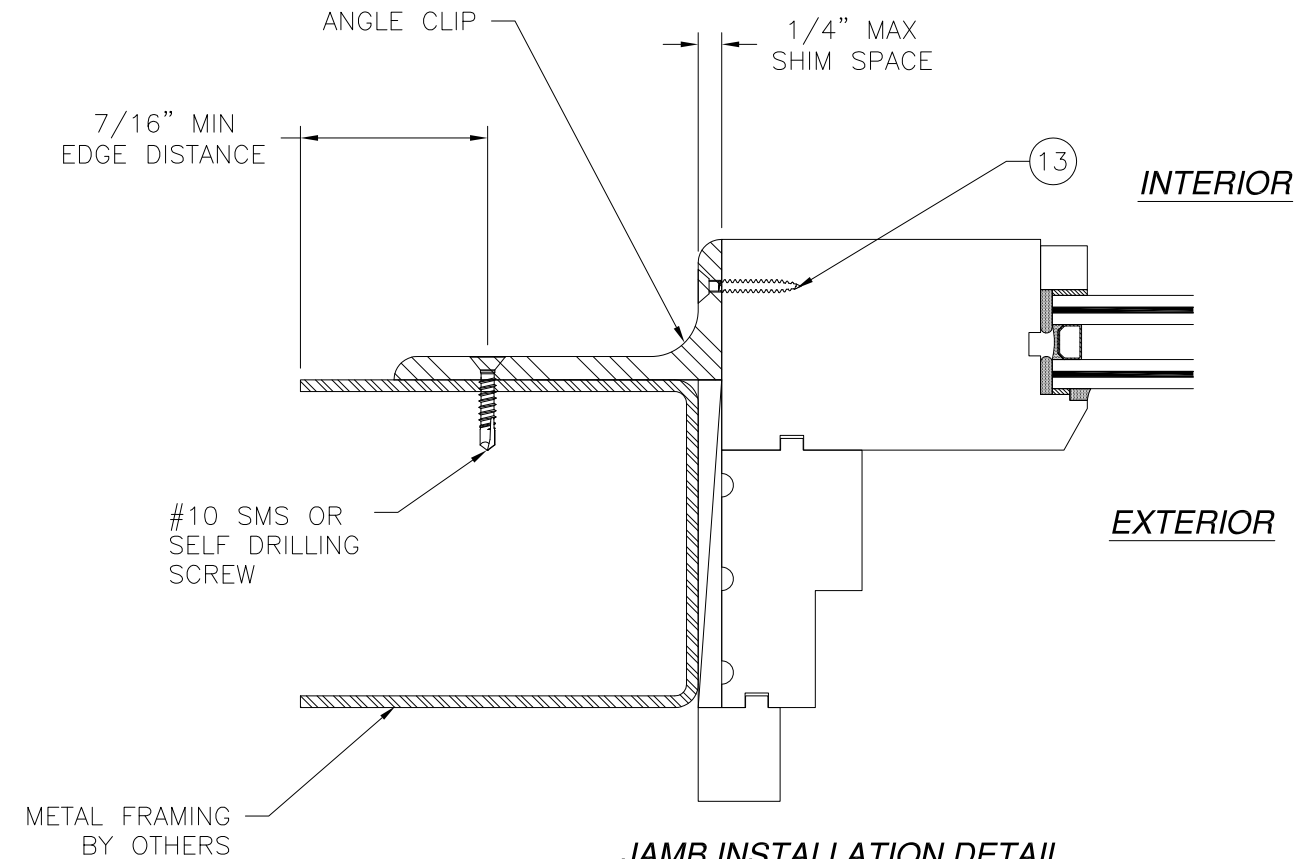
Luis R. Lomas P.E.
No. 62514
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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FL No.: 62514



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION
TRANSOM SHOWN SIDELITE SIMILAR

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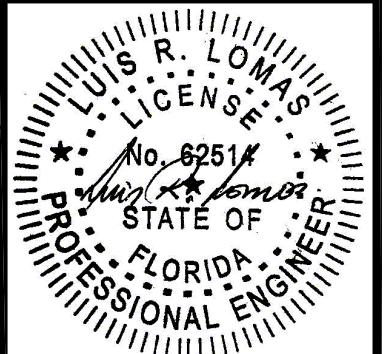


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION
TRANSOM SHOWN SIDELITE SIMILAR

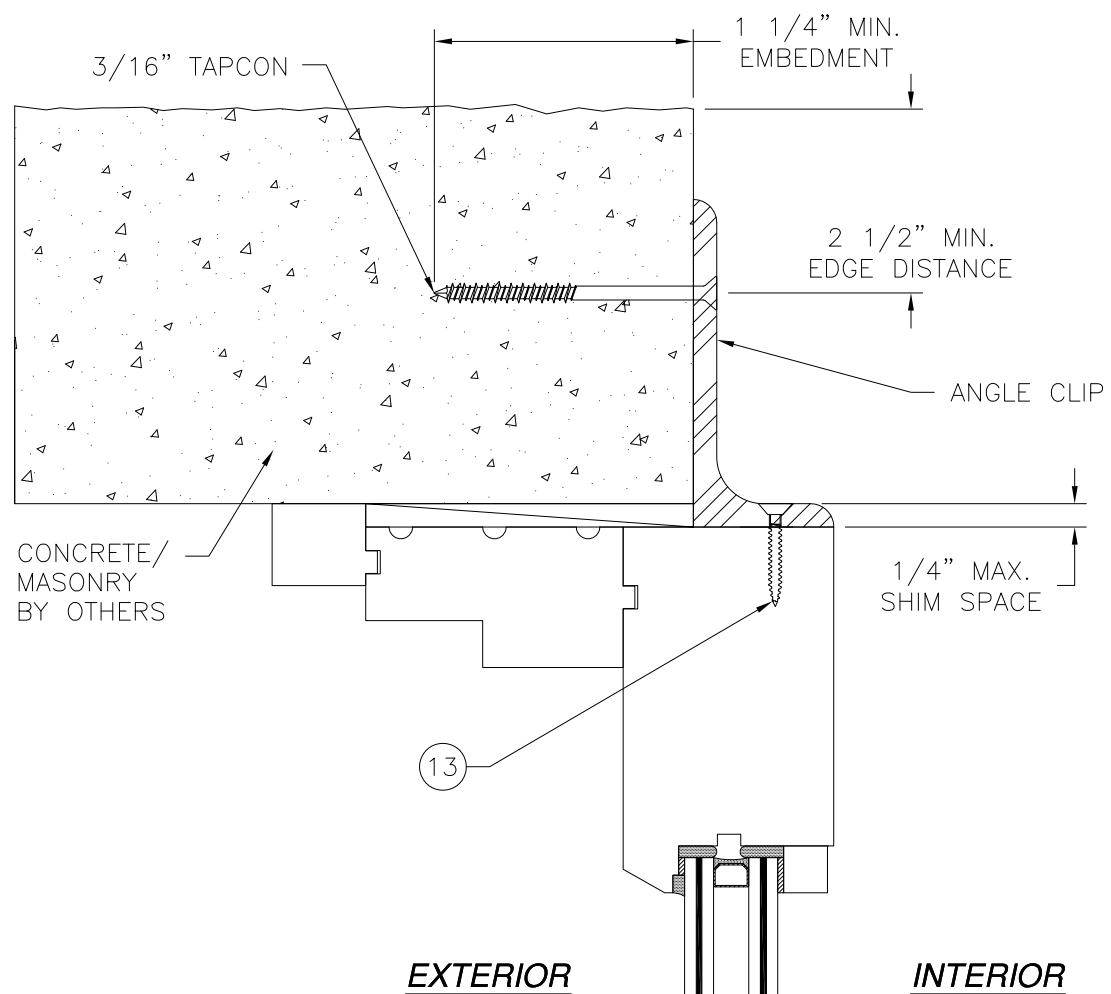
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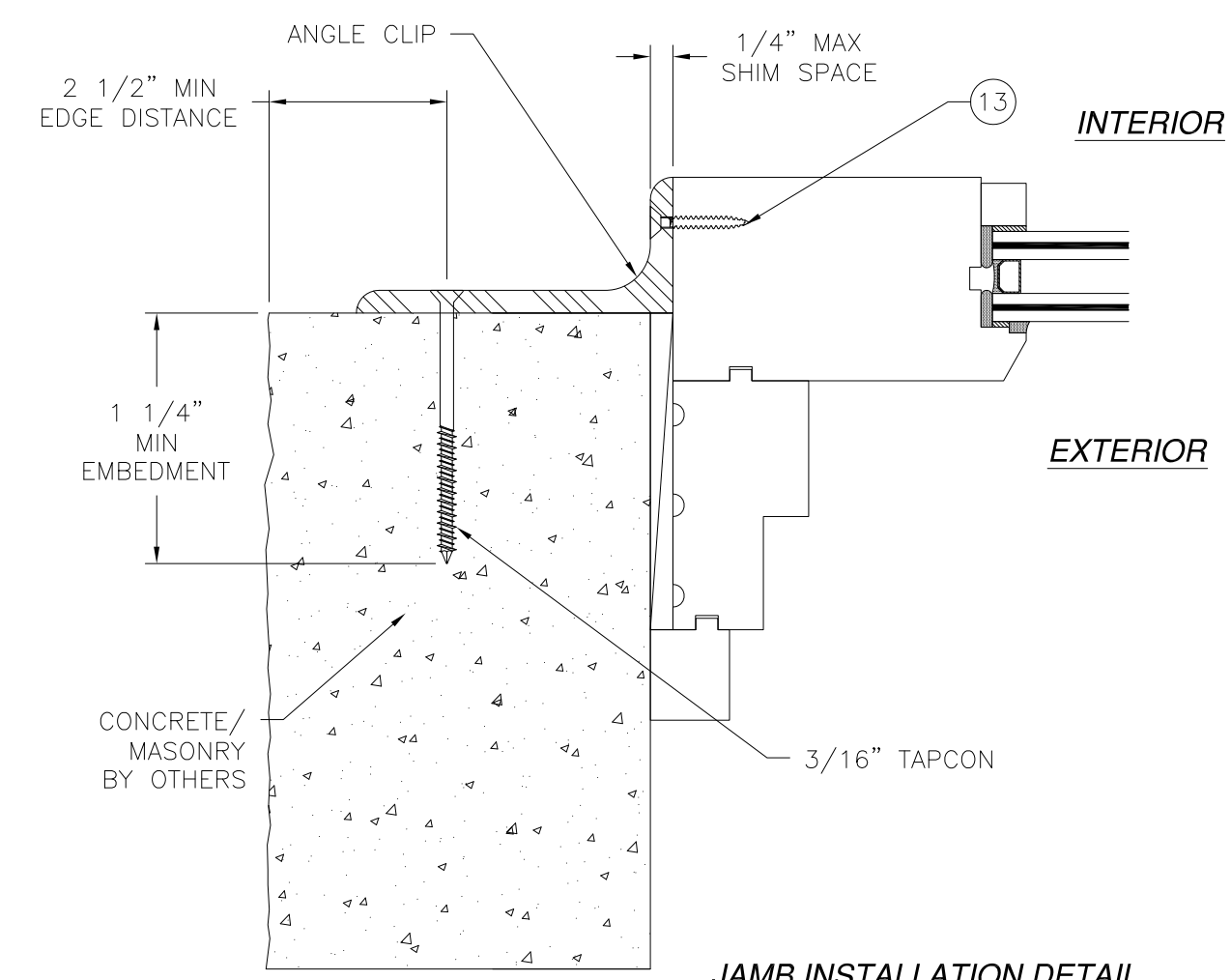
REILLY WINDOWS & DOORS 901 BURMAN BLVD., BLDG 701 CALVERTON, NY 11933		
RWD WOOD FIXED UNITS IMPACT HVHZ INSTALLATION DETAILS		
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L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
TRANSOM SHOWN SIDELITE SIMILAR



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION
TRANSOM SHOWN SIDELITE SIMILAR

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RWD WOOD FIXED UNITS
IMPACT HVHZ
INSTALLATION DETAILS

DRAWN: J.L.	DWG NO. 08-02475	REV C
SCALE NTS	DATE 08/03/2014	SHEET 10 OF 11

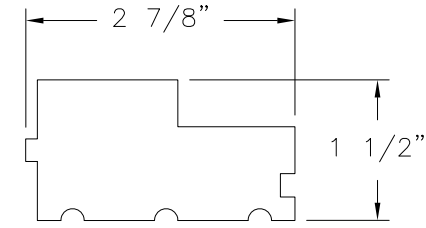
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

SIGNED: 11/14/2023

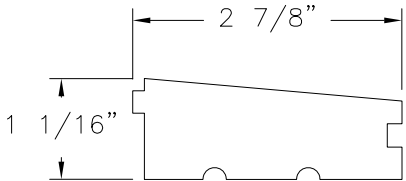
LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
FL No.: 62514

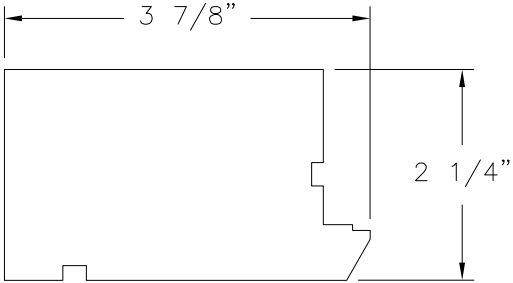
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED PER NEW REQUIREMENTS	11/14/2023	R.L.



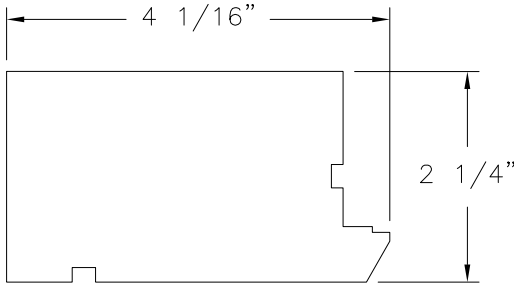
① **FRAME**
WOOD MAHOGANY



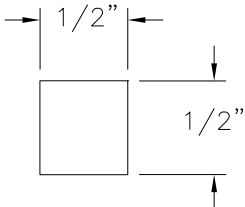
② **SILL FRAME**
WOOD MAHOGANY



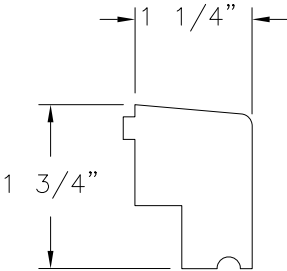
③ **STILE**
WOOD MAHOGANY



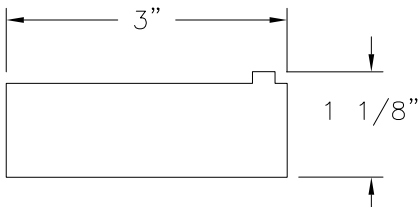
④ **BOTTOM RAIL**
WOOD MAHOGANY



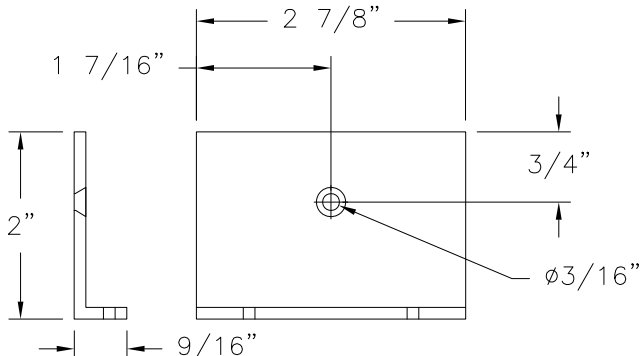
⑤ **GLASS STOP**
WOOD MAHOGANY



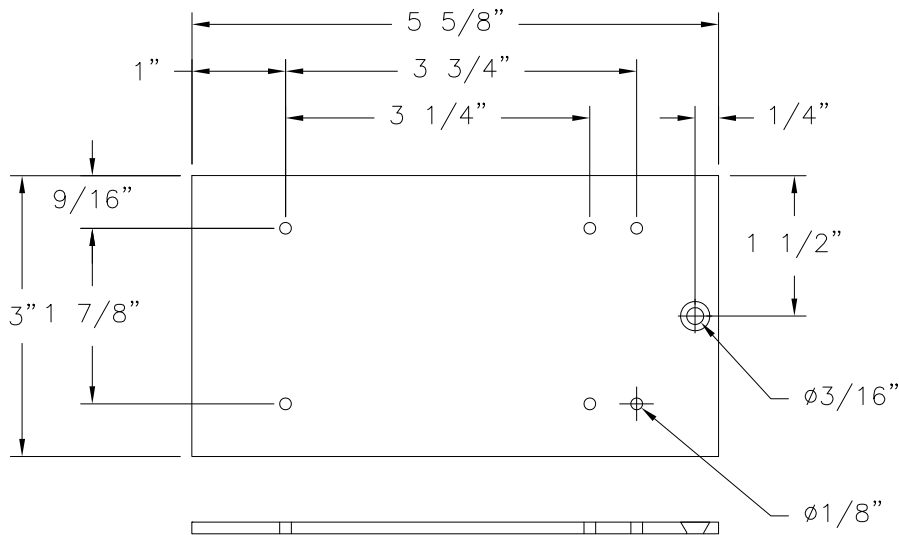
⑥ **SILL NOSING**
WOOD MAHOGANY



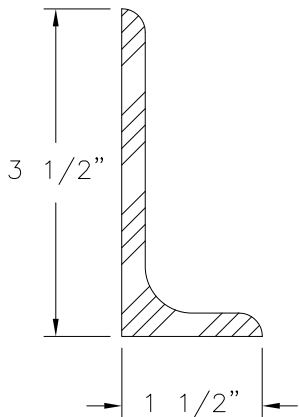
⑦ **CASING**
WOOD MAHOGANY



⑧ **ANGLE MOUNTING BRACKET**
ALUMINUM 6063-T5 1/8" THICK



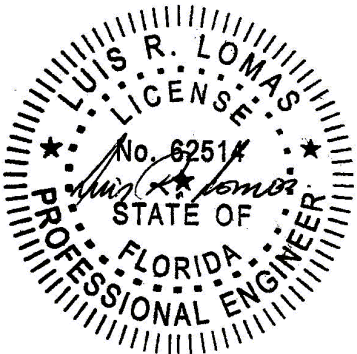
⑨ **MOUNTING BRACKET**
ALUMINUM 6063-T5 1/8" THICK



ANGLE CLIP

REILLY WINDOWS & DOORS 901 BURMAN BLVD., BLDG 701 CALVERTON, NY 11933		
RWD WOOD FIXED UNITS IMPACT HVHZ COMPONENTS		
DRAWN: J.L.	DWG NO. 08-02475	REV C
SCALE NTS	DATE 08/03/2014	SHEET 11 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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Luis R. Lomas P.E.
FL No.: 62514