

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	08/16/2023	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. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION 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 2 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 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 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:
 - 17.1. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 17.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - 17.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 17.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS AND GLAZING DETAIL
3	CROSS SECTIONS AND B.O.M.
4 - 7	INSTALLATION DETAILS
8	COMPONENTS

LAS ENTERPRISES
2413 L & A ROAD
METAIRIE, LA 70001

SERIES 4000 DOUBLE HUNG WEATHERGARD III
VINYL WINDOW 52" x 75" - IMPACT HVHZ
NOTES

DRAWN:
V.L.

DWG NO.
08-02275

REV
B

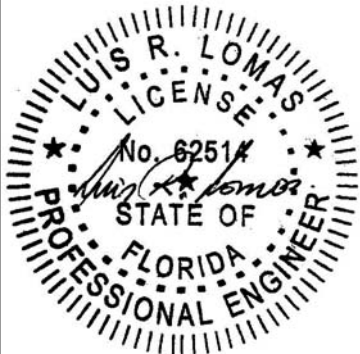
SCALE NTS

DATE 02/03/14

SHEET 1 OF 8

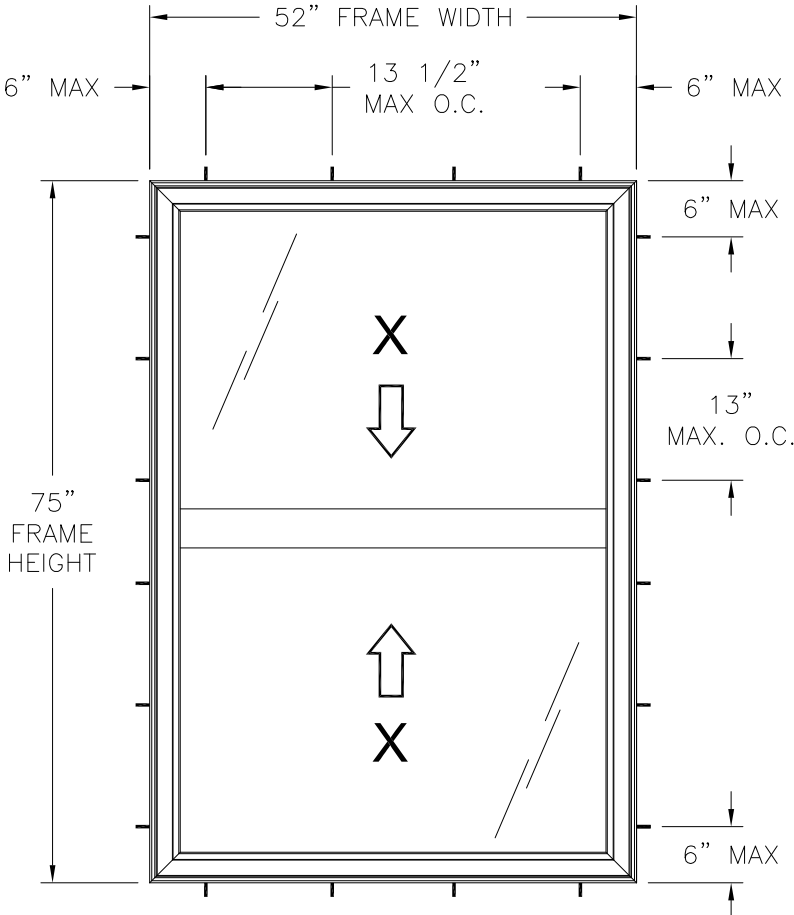
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/26/2023

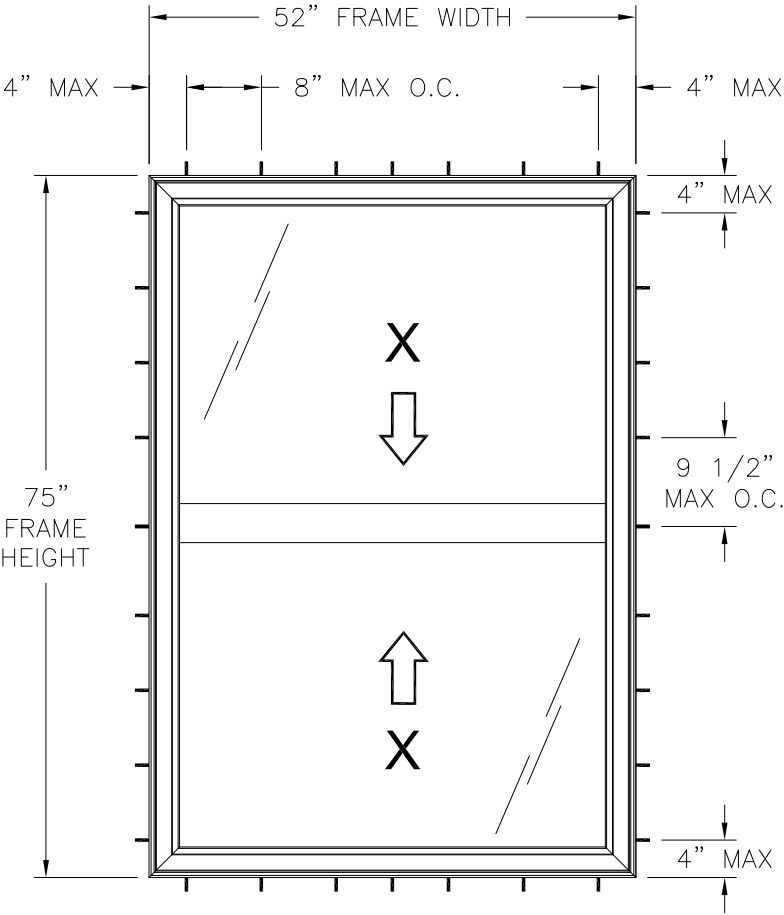


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	08/16/2023	R.L.



SERIES 4000 DOUBLE HUNG WEATHERGARD III
EXTERIOR VIEW FRAME FLUSH INSTALLATION



SERIES 4000 DOUBLE HUNG WEATHERGARD III
EXTERIOR VIEW STRAP INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
±70PSF	LARGE AND SMALL MISSILE IMPACT

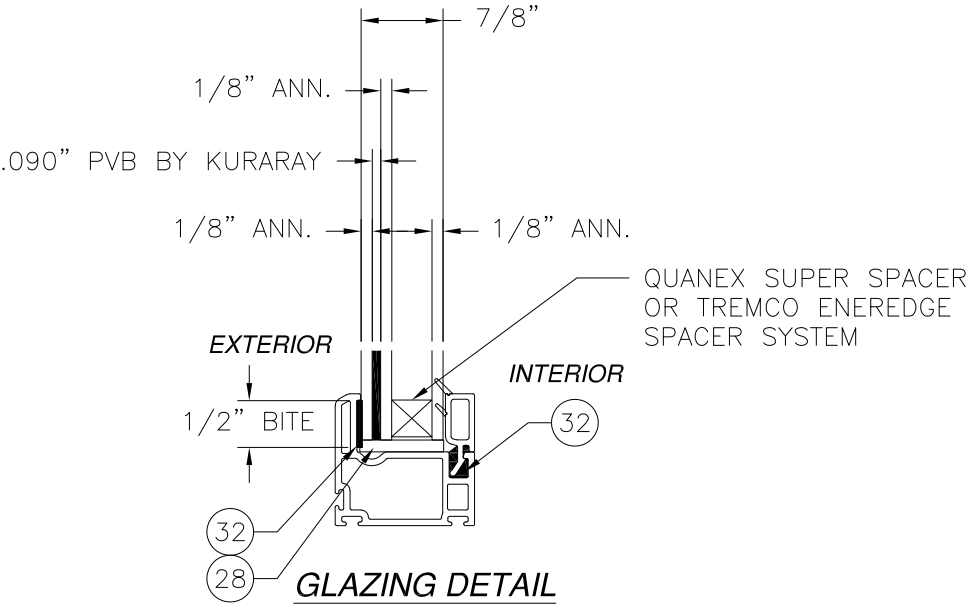
MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

WEEP HOLE LOCATIONS:

- 1) 3/4" X 1/4" WEEP HOLES LOCATED 1 1/2" FROM EACH END OF INTERIOR SILL TRACK AND 2" FROM EACH END OF EXTERIOR SILL TRACK.
- 2) 5/8" X 1/8" WEEP HOLES LOCATED 3 1/4" FROM EACH END OF SCREEN RETAINER AND 3" FROM EACH END OF EXTERIOR MEETING RAIL AND BOTTOM RAIL.
- 3) 1" X 1/4" WEEP HOLE WITH WEEP COVER LOCATED 4 1/4" FROM EACH END OF EXTERIOR SILL FACE.

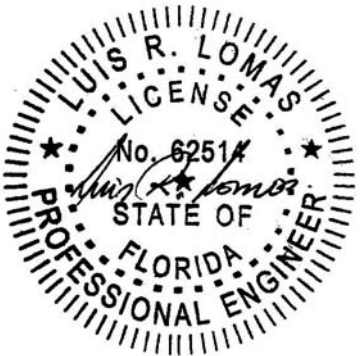
HARDWARE SCHEDULE	
A.	(1) LOCKING TILT SHOE AT EACH JAMB TRACK
B.	(1) SPRING-LOADED LOCK AT 8 1/4" FROM EACH END OF INTERIOR MEETING RAIL WITH KEEPERS
C.	(1) METAL INTERLOCKING TILT LATCH AT EACH END OF TOP RAIL AND INTERIOR MEETING RAIL WITH KEEPERS
D.	(1) L-SHAPED DIE-CAST METAL PIVOT BAR AT EACH END OF EXTERIOR MEETING RAIL AND BOTTOM RAIL
E.	(1) ALUMINUM REINFORCEMENT IN ALL SASH MEMBERS

- NOTES:**
1. **MAXIMUM SASH SIZE: 49 1/4" x 36 5/8"**
 2. **MAXIMUM D.L.O.: 46 3/4" x 33 3/8"**



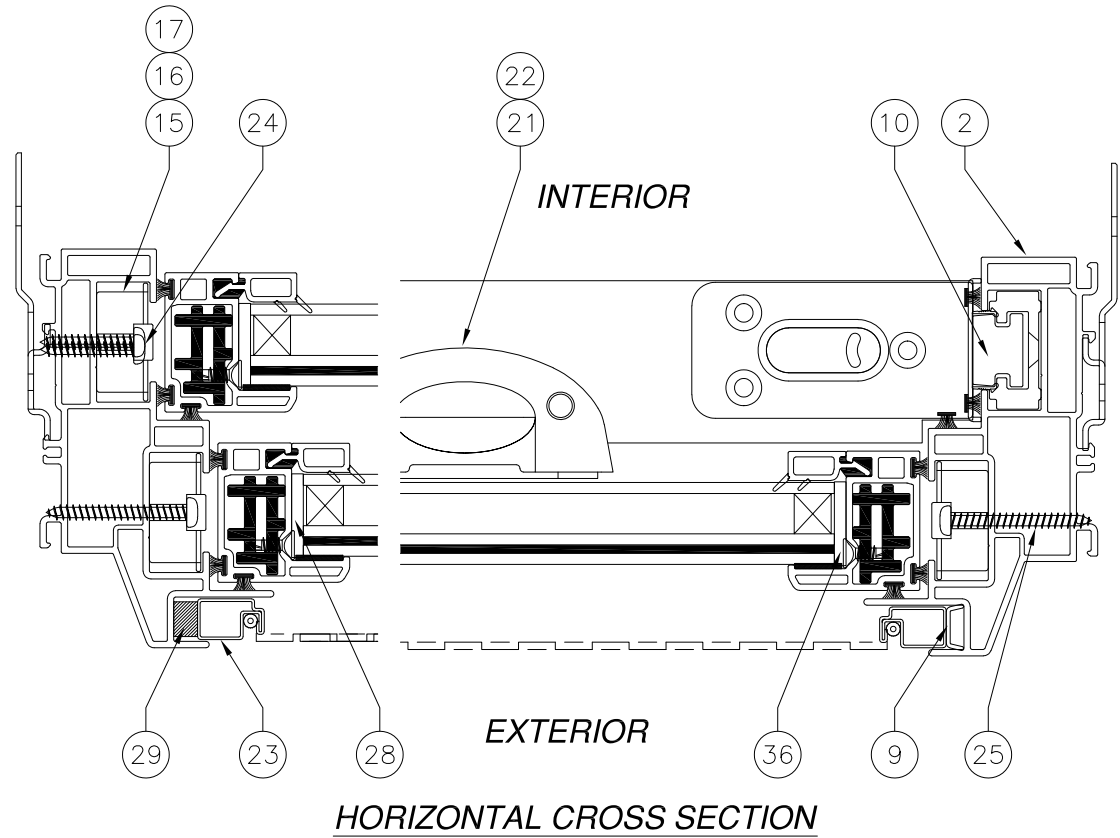
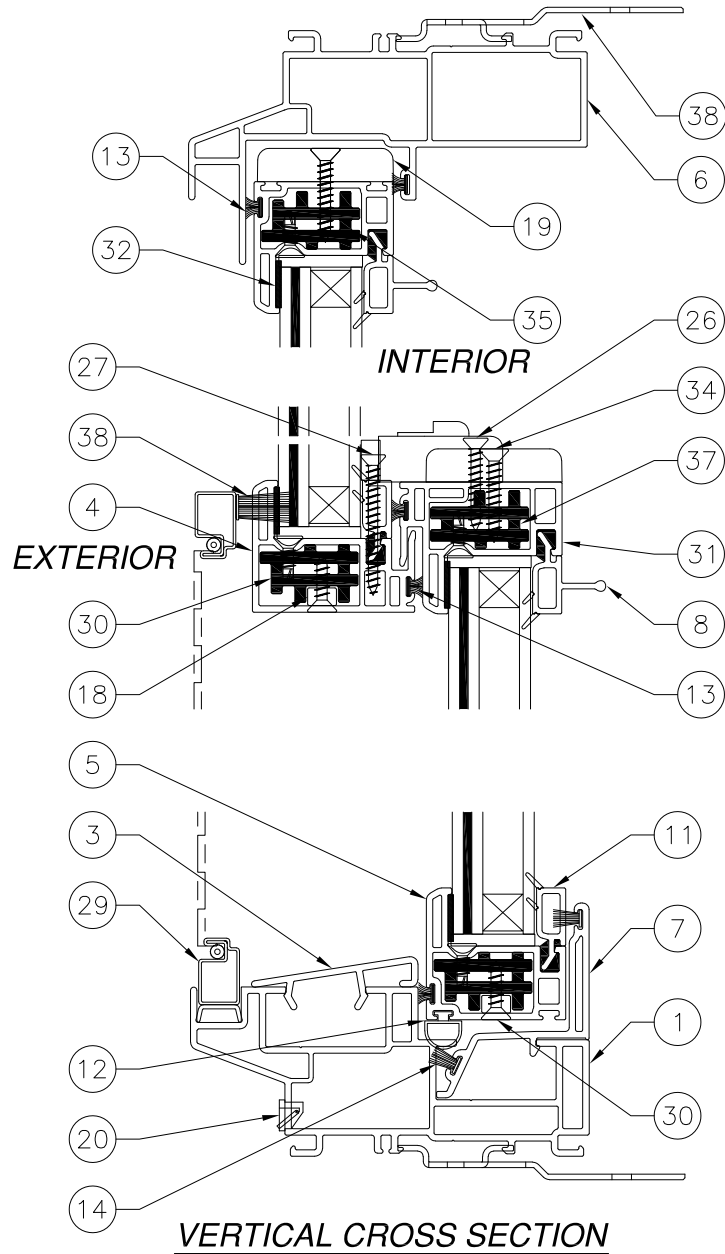
LAS ENTERPRISES 2413 L & A ROAD METAIRIE, LA 70001		
SERIES 4000 DOUBLE HUNG WEATHERGARD III VINYL WINDOW 52" x 75" – IMPACT HVHZ ELEVATIONS AND GLAZING DETAIL		
DRAWN: V.L.	DWG NO. 08-02275	REV B
SCALE NTS	DATE 02/03/14	SHEET 2 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 10/26/2023



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

PARTS LIST		
NO.	PART NUMBER	DESCRIPTION
1	4005	SILL FRAME, PVC
2	4006	JAMB FRAME, PVC
3	4012	EXTERIOR SILL, PVC
4	4080A	OUTSIDE SASH INTERLOCK, PVC
5	4027A	SASH FRAME, PVC
6	4011	HEAD, PVC
7	4219	SILL ADAPTER, PVC
8	4022	7/8" GLAZING BEAD, PVC
9	4030	SCREEN SPACER
10	4010	SASH STOP, PVC
11	4013	7/8" GLAZING BEAD
12	LDB-100109T	WEATHERSTRIP (SCHLEGEL)
13	HF-7320-187	WEATHERSTRIP (SCHLEGEL)
14	PB-8830-187	WEATHERSTRIP (SCHLEGEL)
15	FBZ128-ABC	COIL BALANCE (UNIQUE)
16	FBZ128-ABC	BALANCE SUPPORT (UNIQUE)
17	FS550ET C	TILT SHOE (UNIQUE)
18	FPDC04L	PIVOT BAR (UNIQUE)
19	808-0018	TILT LATCH
20	97-03-00-00	VALVE (GEARMOLD)
21	SL047500	LOCK (ROTO)
22	SL047550	KEEPER (ROTO)
23		7/16" SCREEN FRAME
24		BALANCE SCREWS PH #8 X 1"
25		BALANCE SCREWS PH #8 X 1 1/2"
26		LOCK SCREWS FH #6 X1"
27		KEEPER SCREWS FH #6 X 1 1/2"
28		SETTING BLOCK (80 DUROMETER) 7/8"x1"x1/8"
29		SCREEN SPRING
30		PIVOT SCREWS FH #8 X 1/2"
31	4084A	INSIDE SASH INTERLOCK, PVC
32		DOW 995 SEALANT
33		RECEPTACLE SCREWS FH #10 X2"
34		TILT LATCH SCREWS FH #8 X 1"
35	A110-02M095	SASH REINFORCEMENT ALUMINUM, 6063-T5
36		REINFORCEMENT SCREWS STL #8 X 1/2"
37	A111-02M096	MEETING RAIL REINFORCEMENT ALUMINUM,6063-T5
38	4560	INSTALLATION STRIP, STEEL G60



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	08/16/2023	R.L.

SIGNED: 10/26/2023

LAS ENTERPRISES
2413 L & A ROAD
METAIRIE, LA 70001

SERIES 4000 DOUBLE HUNG WEATHERGARD III
VINYL WINDOW 52" x 75" – IMPACT HVHZ
CROSS SECTIONS AND B.O.M.

DRAWN:
V.L.

DWG NO.
08-02275

REV
B

SCALE
NTS

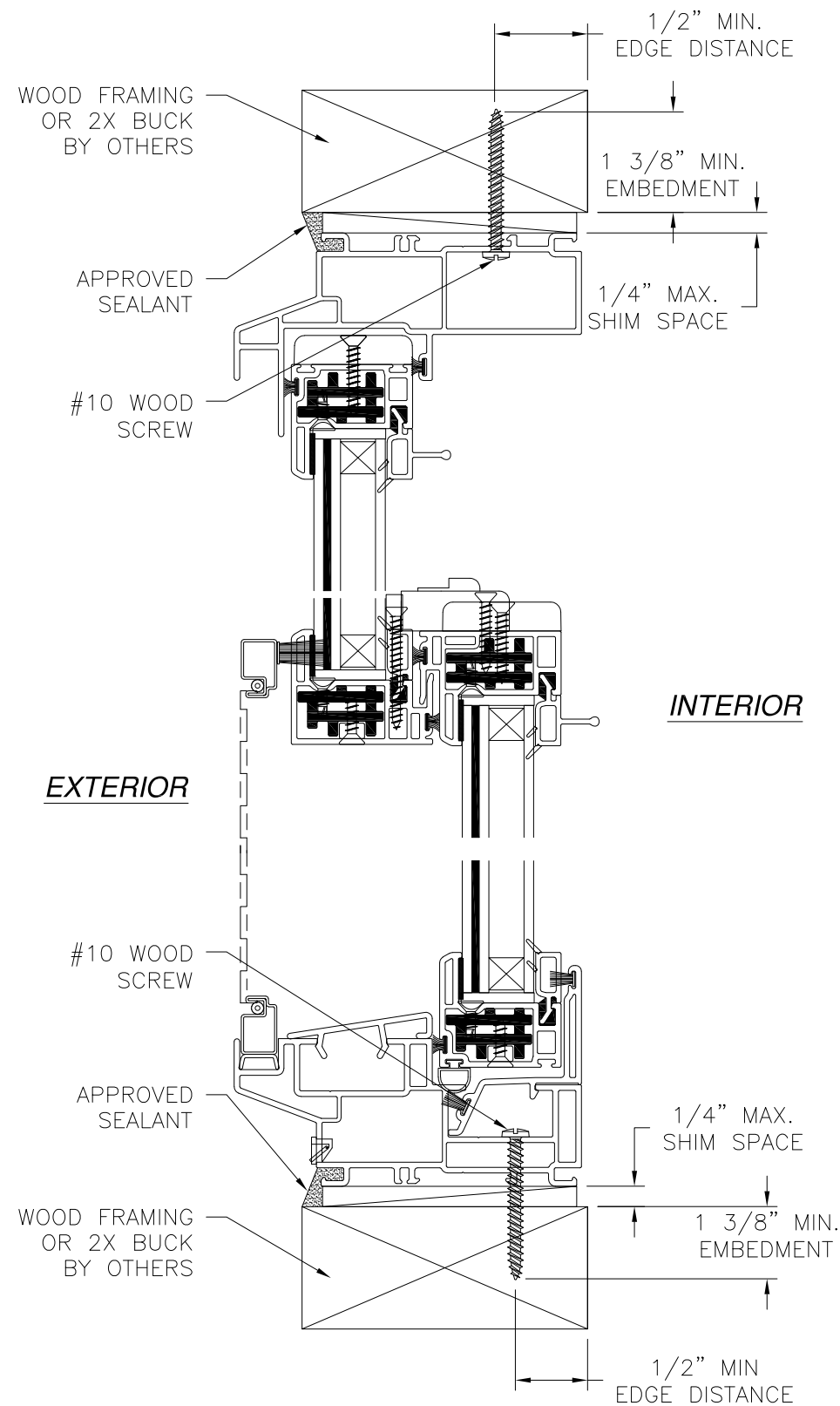
DATE
02/03/14

SHEET
3 OF 8

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

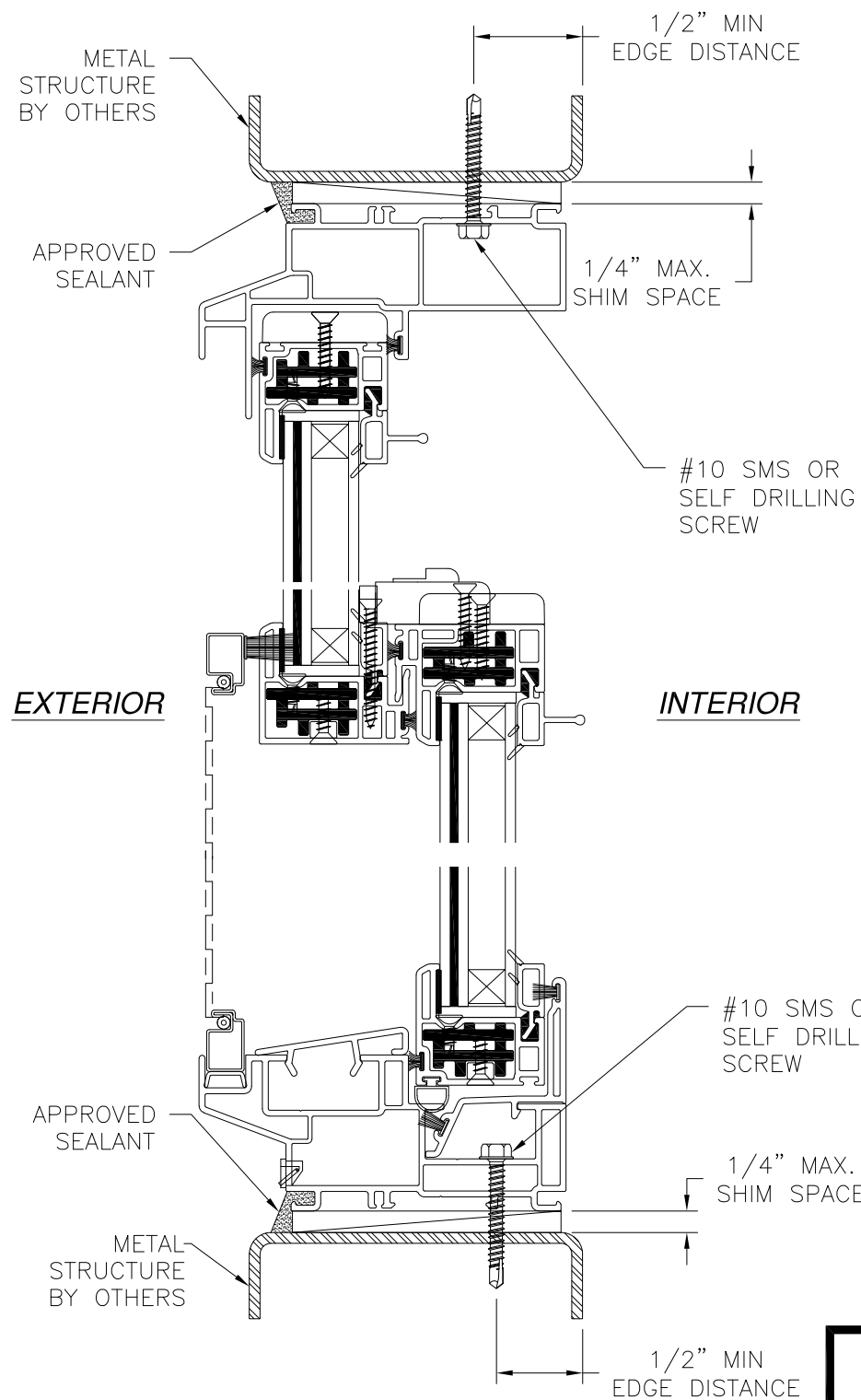


Luis R. Lomas P.E.
FL No.: 62514

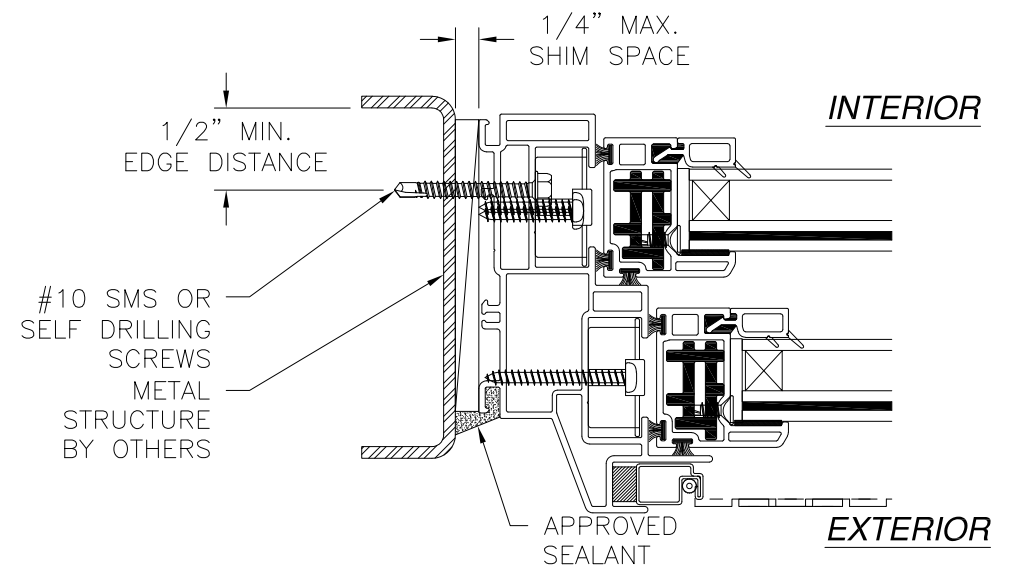


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

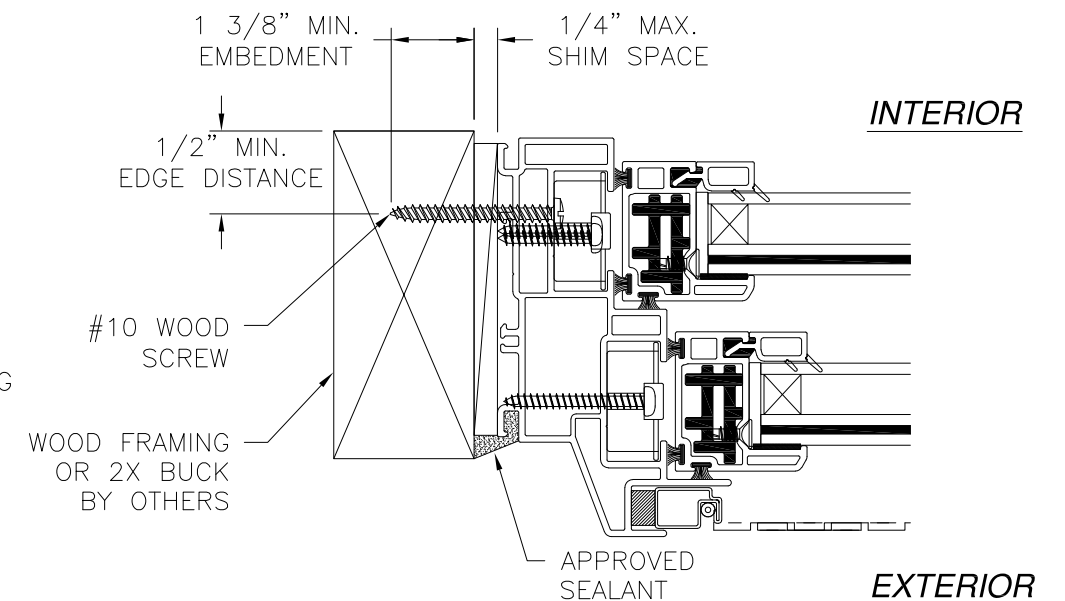
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



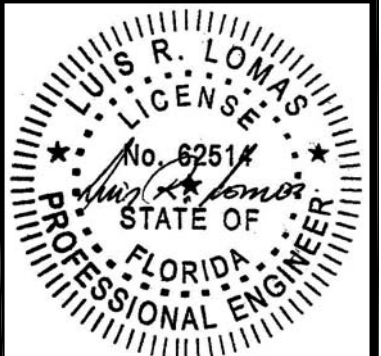
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION **SIGNED: 10/26/2023**

LAS ENTERPRISES
2413 L & A ROAD
METAIRIE, LA 70001

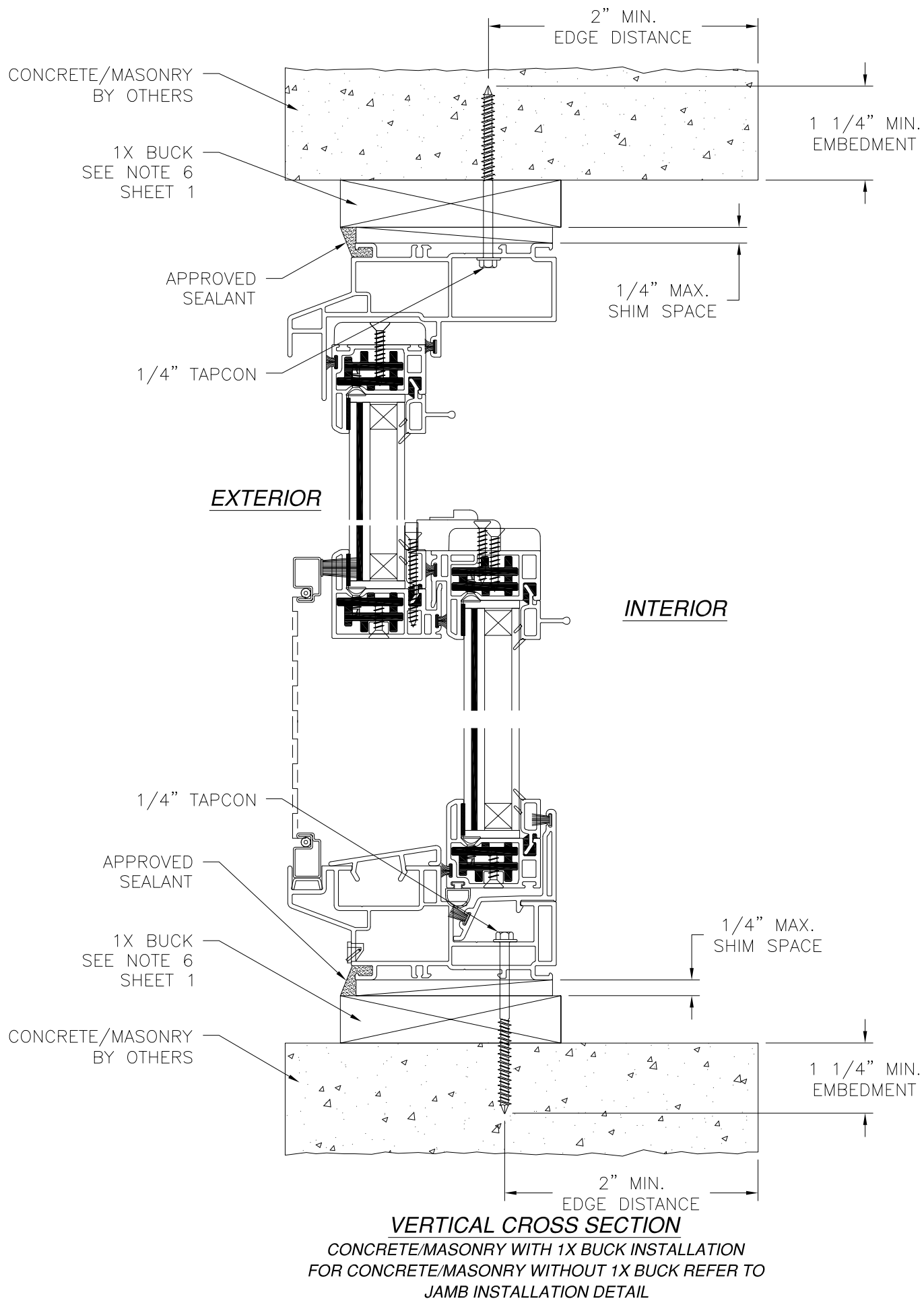
SERIES 4000 DOUBLE HUNG WEATHERGARD III
VINYL WINDOW 52" x 75" - IMPACT HVHZ
FRAME INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-02275	REV B
SCALE NTS	DATE 02/03/14	SHEET 4 OF 8

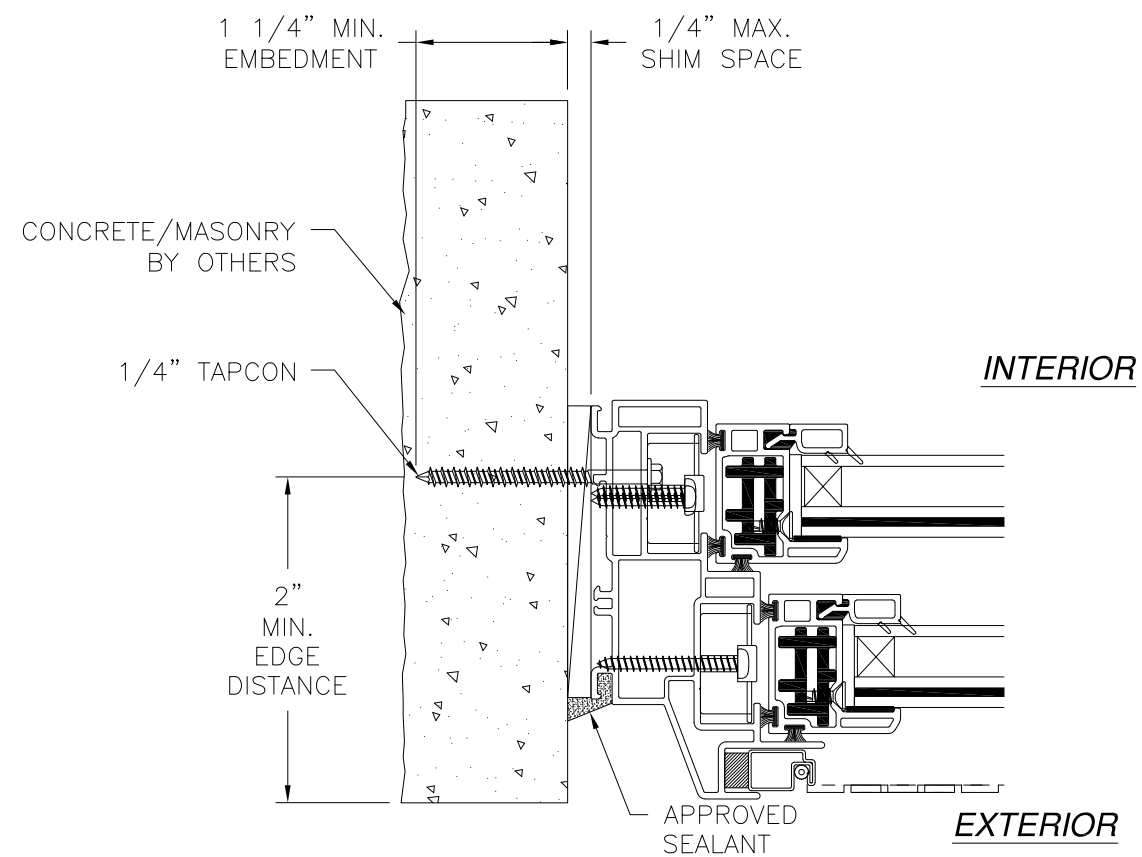
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	08/16/2023	R.L.



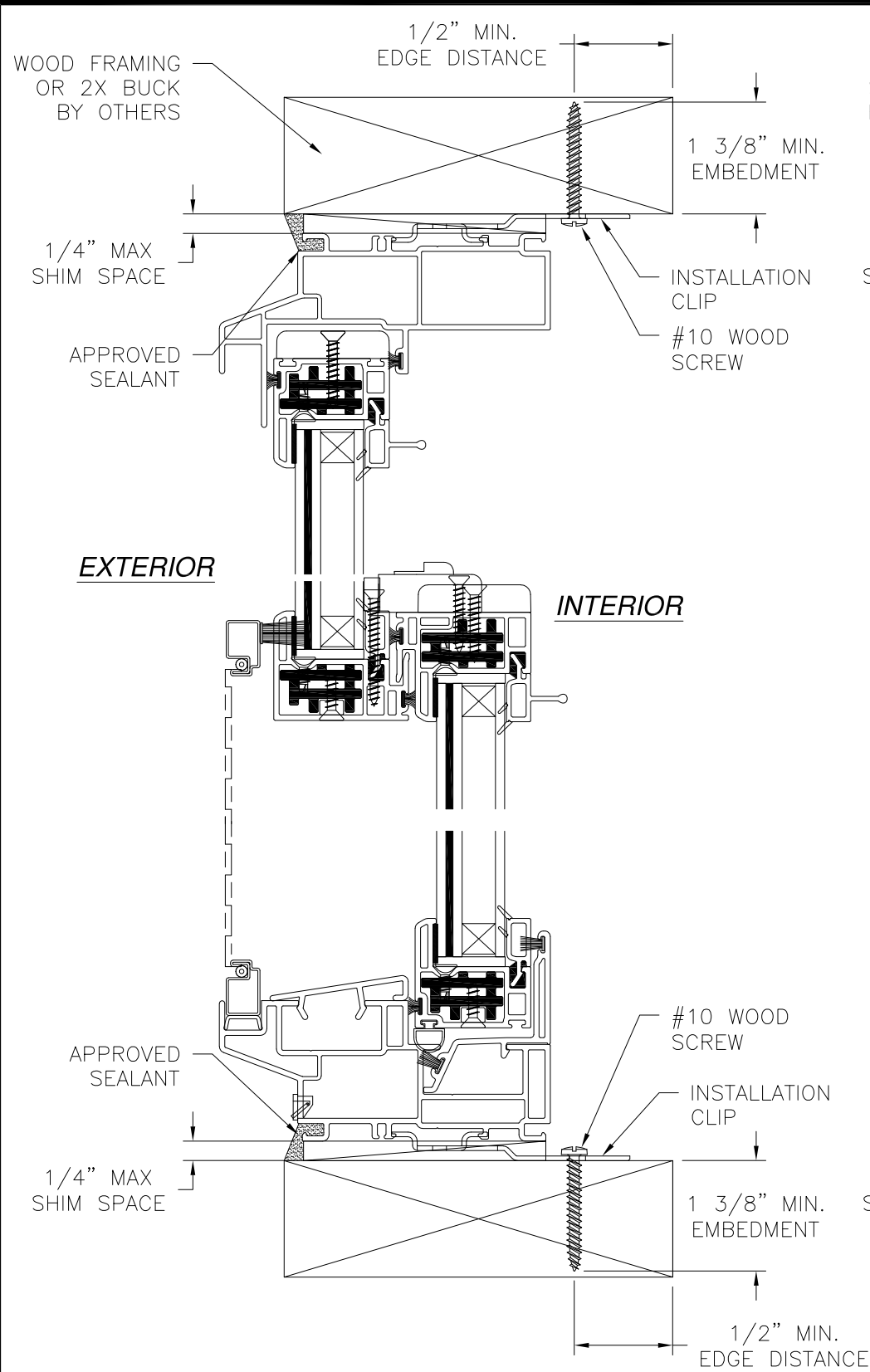
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

- 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

SIGNED: 10/26/2023

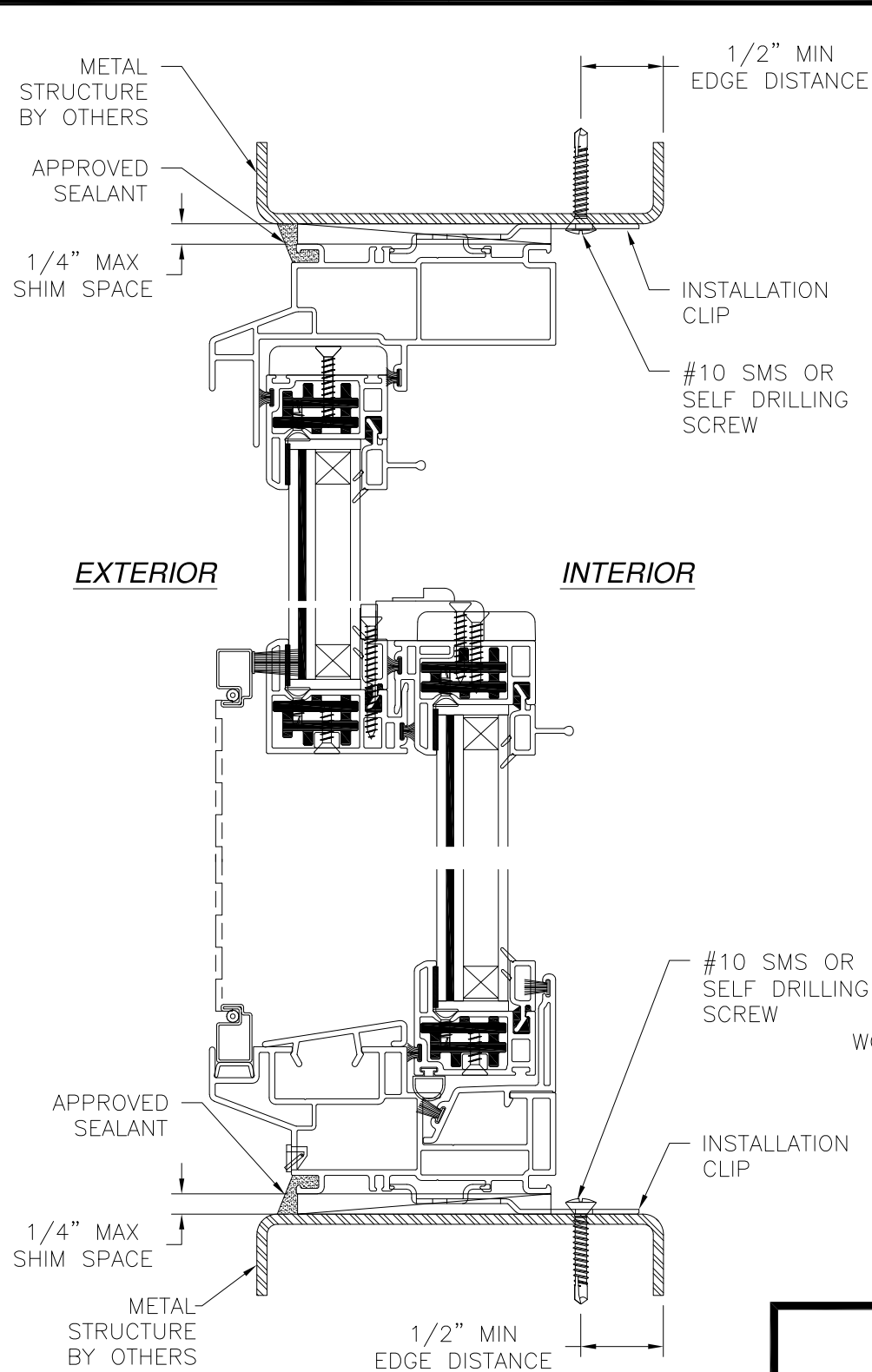
LAS ENTERPRISES 2413 L & A ROAD METAIRIE, LA 70001		
SERIES 4000 DOUBLE HUNG WEATHERGARD III VINYL WINDOW 52" x 75" - IMPACT HVHZ FRAME INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02275	REV B
SCALE NTS	DATE 02/03/14	SHEET 5 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.

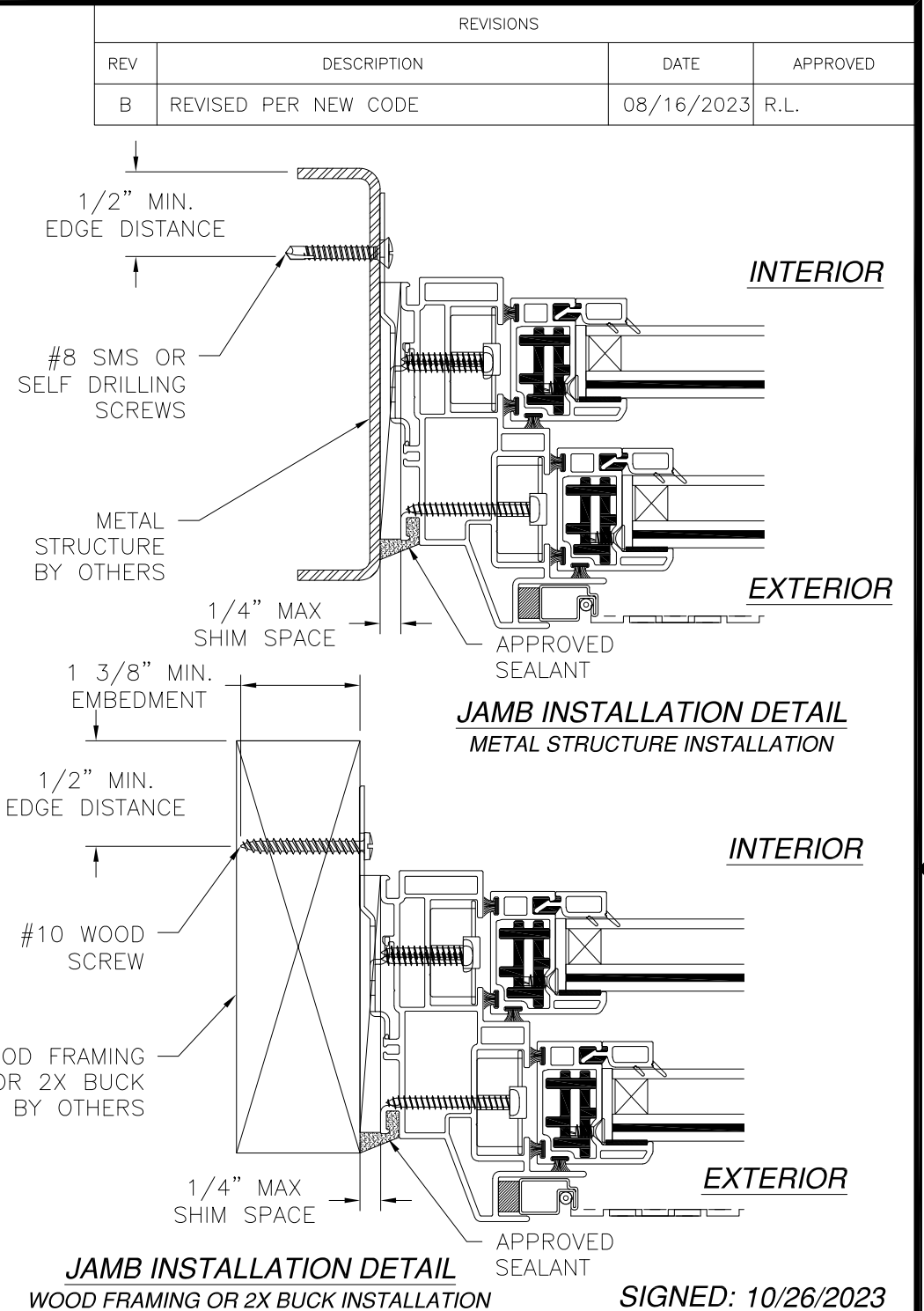


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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



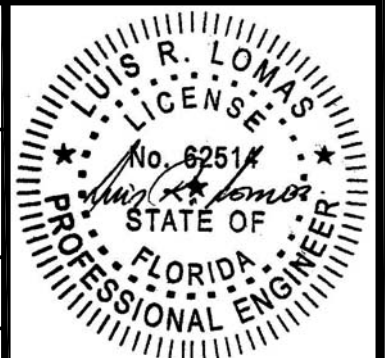
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



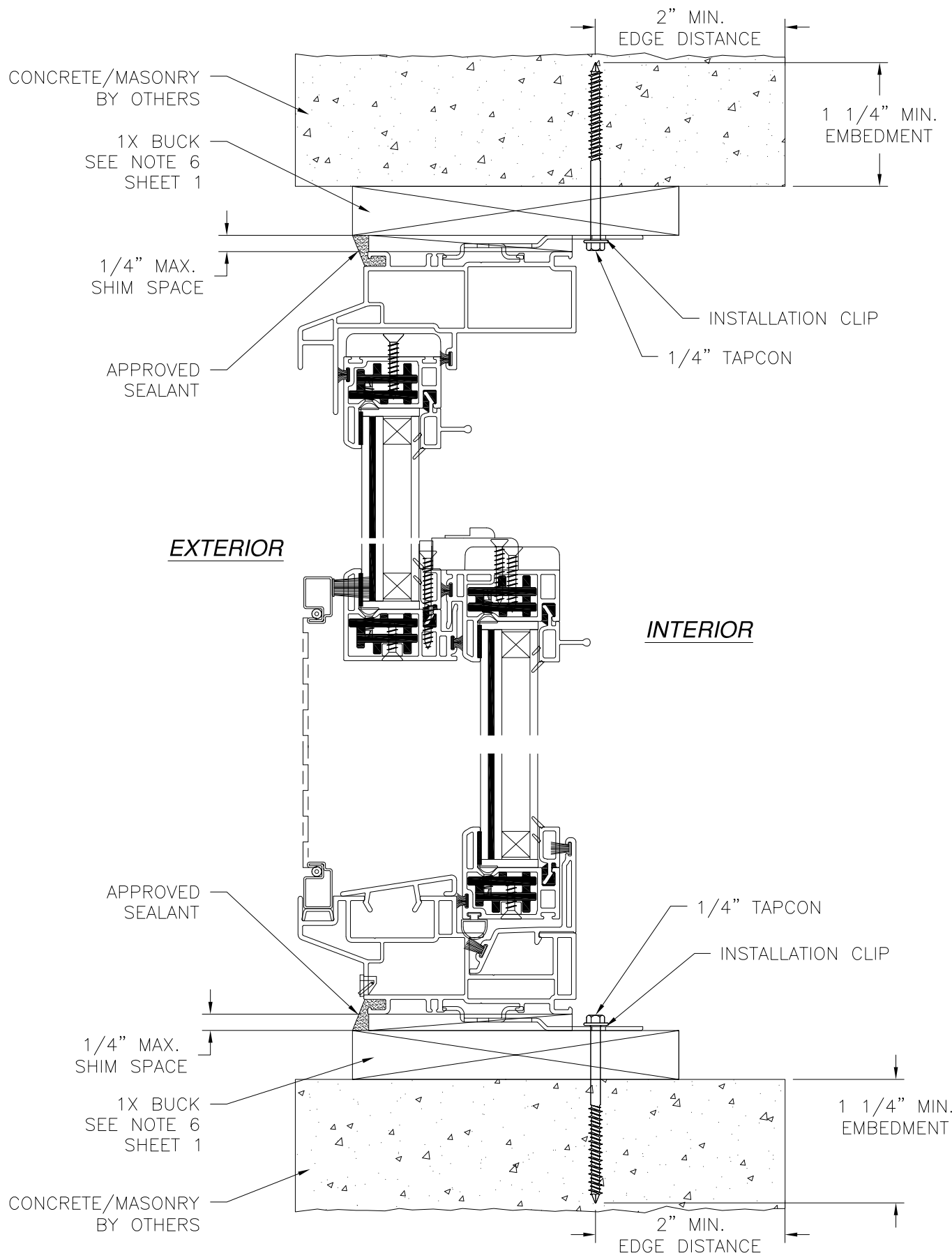
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 10/26/2023

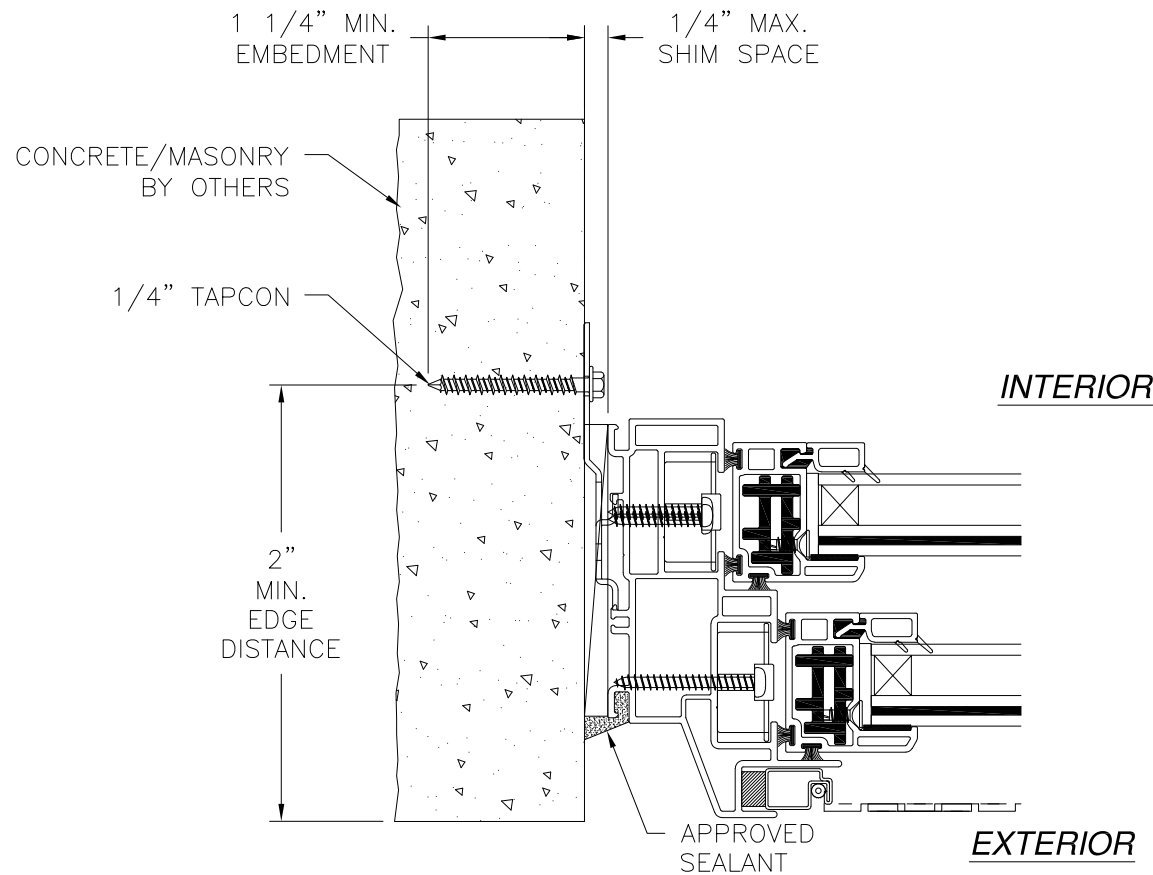
LAS ENTERPRISES 2413 L & A ROAD METAIRIE, LA 70001		
SERIES 4000 DOUBLE HUNG WEATHERGARD III VINYL WINDOW 52" x 75" - IMPACT HVHZ STRAP INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02275	REV B
SCALE NTS	DATE 02/03/14	SHEET 6 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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



VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

- 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

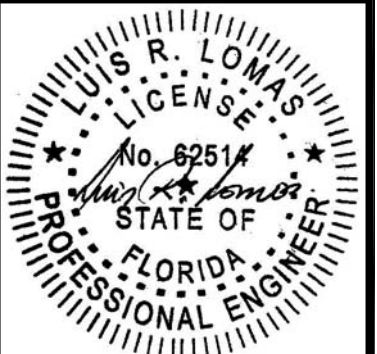
LAS ENTERPRISES

2413 L & A ROAD
METAIRIE, LA 70001

SERIES 4000 DOUBLE HUNG WEATHERGARD III
VINYL WINDOW 52" x 75" - IMPACT HVHZ
STRAP INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-02275	REV B
SCALE NTS	DATE 02/03/14	SHEET 7 OF 8

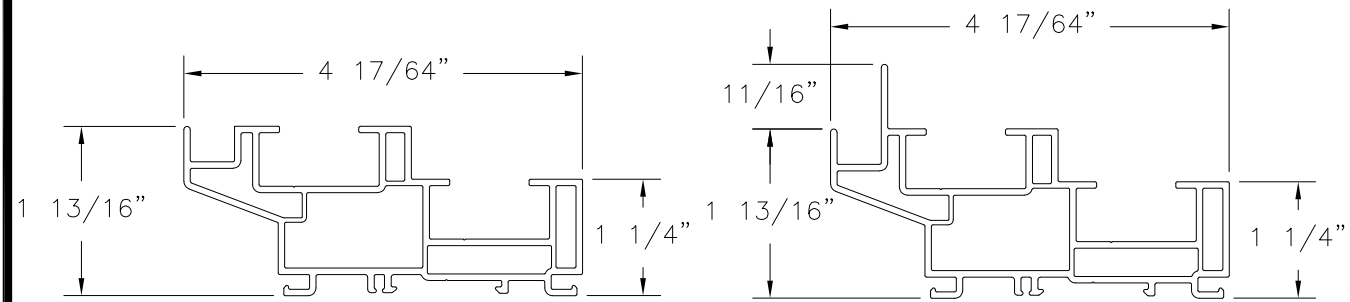
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	08/16/2023	R.L.

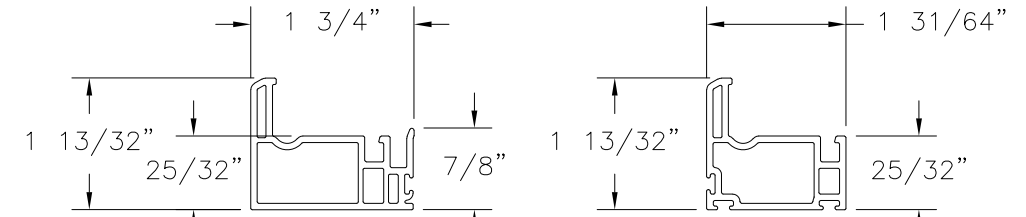
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	08/16/2023	R.L.



1 **SILL FRAME**
VINYL PVC .069 THICK

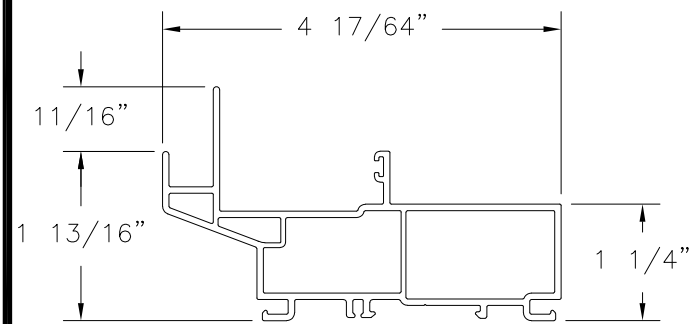
2 **JAMB FRAME**
VINYL PVC .069 THICK

3 **EXTERIOR SILL**
VINYL PVC .069 THICK

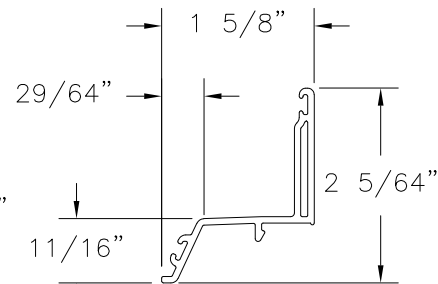


4 **OUTSIDE SASH INTERLOCK**
VINYL PVC .069 THICK

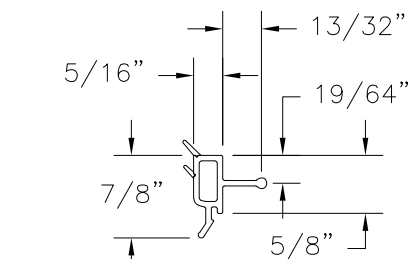
5 **SASH FRAME**
VINYL PVC .069 THICK



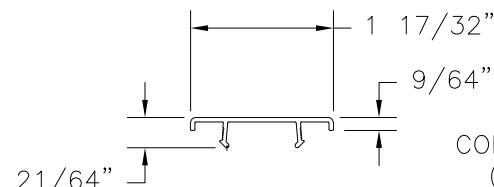
6 **HEAD FRAME**
VINYL PVC .069 THICK



7 **SILL ADAPTER**
VINYL PVC .069 THICK



8 **7/8" GLAZING BEAD**
VINYL PVC .059 THICK



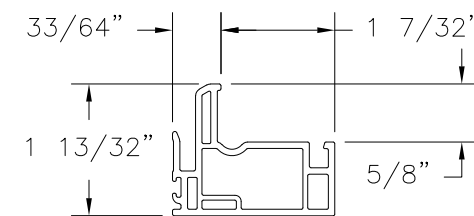
10 **SASH STOP**
VINYL PVC .047 THICK

CORNER WELD
(ALL SIDES)

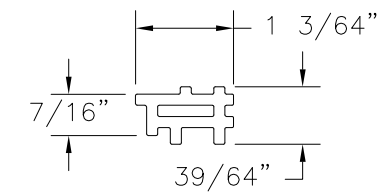
CORNER WELD
(ALL SIDES)

**SASH CORNER
CONSTRUCTION**

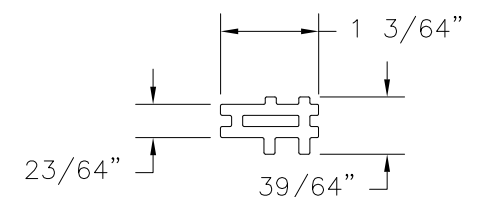
**FRAME CORNER
CONSTRUCTION**



31 **INSIDE SASH INTERLOCK**
VINYL PVC .069 THICK

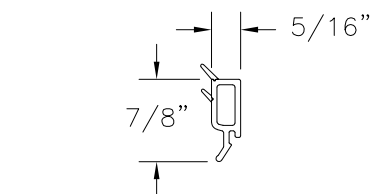


35 **SASH REINFORCEMENT**
AL 6063-T5 .118 THICK

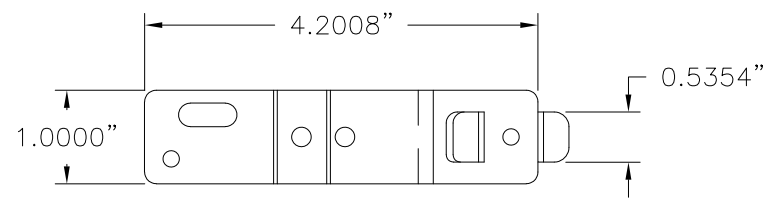


37 **RAIL REINFORCEMENT**
AL 6063-T5 .118 THICK

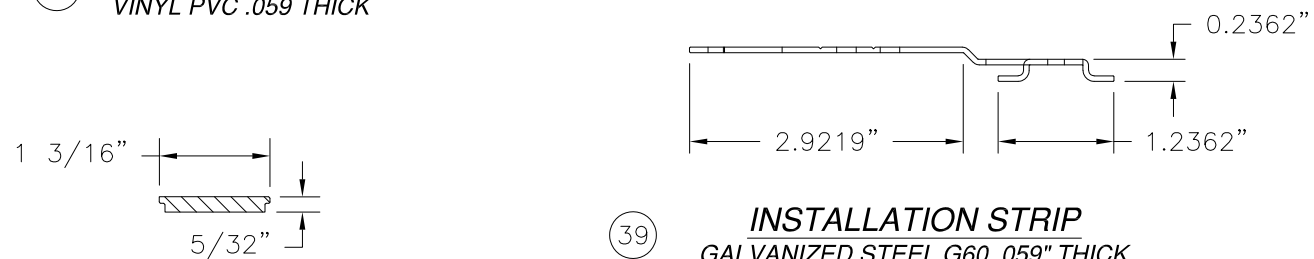
SIGNED: 10/26/2023



11 **7/8" GLAZING BEAD**
VINYL PVC .059 THICK

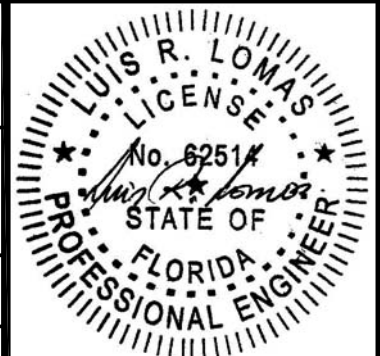


39 **INSTALLATION STRIP**
GALVANIZED STEEL G60 .059" THICK



38 **RIGID FILLER**
RIGID PVC

LAS ENTERPRISES 2413 L & A ROAD METAIRIE, LA 70001		
SERIES 4000 DOUBLE HUNG WEATHERGARD III VINYL WINDOW 52" x 75" - IMPACT HVHZ COMPONENTS		
DRAWN: V.L.	DWG NO. 08-02275	REV B
SCALE NTS	DATE 02/03/14	SHEET 8 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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