

| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| B         | REVISED PER NEW CODE | 01/10/2024 | R.L.     |

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE 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” 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. 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 UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS NEEDED 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, WITH SAFETY GLAZING.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS 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 1/4” 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” 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 2,000 PSI.
- 17.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
- 17.4. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI 1/8” THICK MINIMUM

SIGNED: 01/23/2024

| TABLE OF CONTENTS |                                      |
|-------------------|--------------------------------------|
| SHEET NO.         | DESCRIPTION                          |
| 1                 | NOTES                                |
| 2                 | ELEVATION                            |
| 3 – 4             | BILL OF MATERIALS AND CROSS SECTIONS |
| 5 – 7             | INSTALLATION DETAILS                 |

PROVIA DOOR, INC.  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

REINFORCED VINYL SLIDING GLASS DOOR  
COMMERCIAL NON-IMPACT  
NOTES

DRAWN:  
V.L.

DWG NO.  
08-01271B

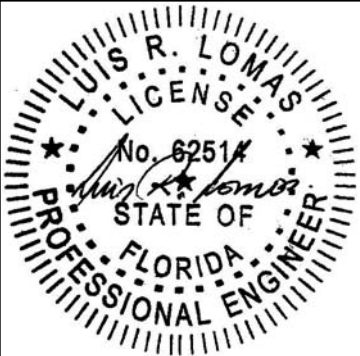
REV  
B

SCALE NTS

DATE 07/05/11

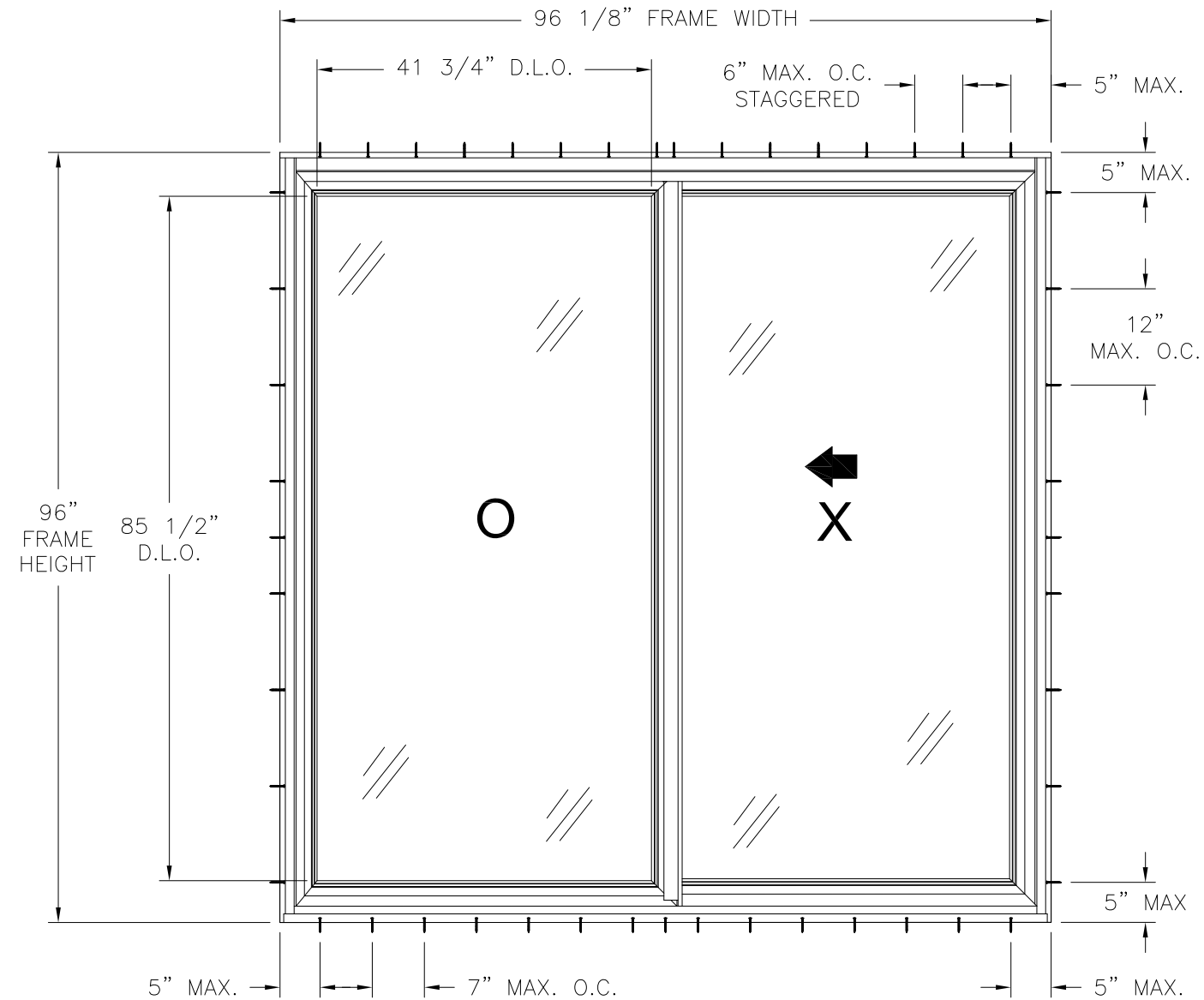
SHEET 1 OF 7

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 | 01/10/2024 | R.L.     |



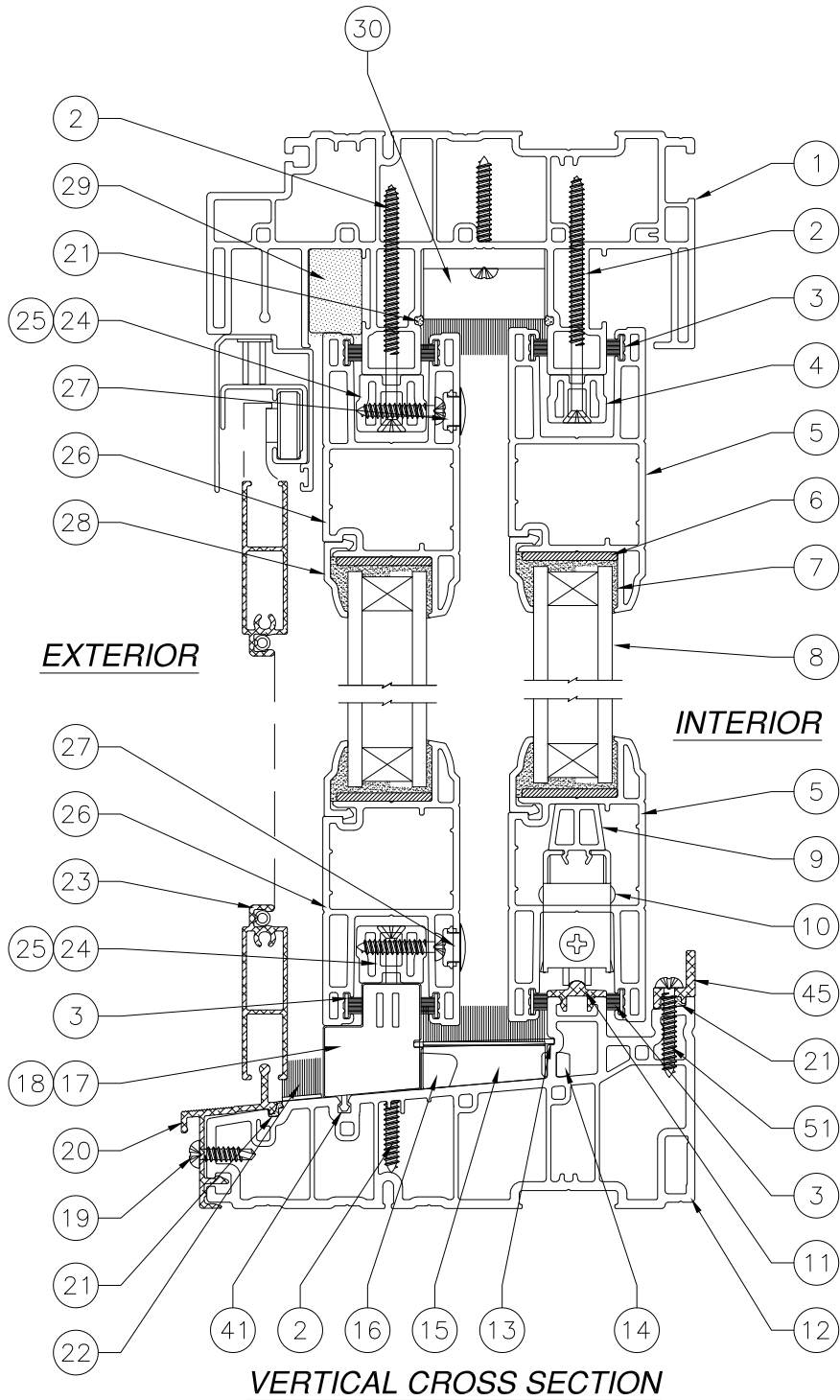
**REINFORCED VINYL SLIDING GLASS DOOR**  
EXTERIOR VIEW

| DESIGN PRESSURE RATING | IMPACT RATING |
|------------------------|---------------|
| ±50.0PSF               | NONE          |

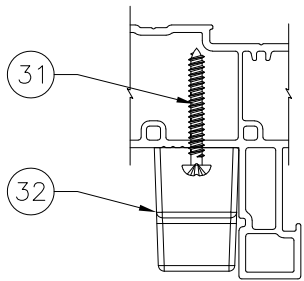
SIGNED: 01/23/2024

|                                                                                                   |                      |                 |                                     |
|---------------------------------------------------------------------------------------------------|----------------------|-----------------|-------------------------------------|
| PROVIA DOOR, INC.<br>2150 STATE ROUTE 39 WEST<br>SUGARCREEK, OH 44681                             |                      |                 |                                     |
| REINFORCED VINYL SLIDING GLASS DOOR<br>COMMERCIAL NON-IMPACT<br>ELEVATION                         |                      |                 |                                     |
| DRAWN:<br>V.L.                                                                                    | DWG NO.<br>08-01271B | REV<br>B        |                                     |
| SCALE<br>NTS                                                                                      | DATE<br>07/05/11     | SHEET<br>2 OF 7 |                                     |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                      |                 | Luis R. Lomas P.E.<br>FL No.: 62514 |

| PARTS LIST |             |                                |              |                  |
|------------|-------------|--------------------------------|--------------|------------------|
| NO.        | PART NUMBER | DESCRIPTION                    | MANUFACTURER | MATERIAL         |
| 1          | 7002        | HEAD                           | P.H.TECH     | RIGID PVC        |
| 2          | 9619        | #8x2 3/4" FH QUADREX SCREW     | P.H.TECH     | STAINLESS STEEL  |
| 3          | 9550        | WEATHERSTRIP                   | P.H.TECH     |                  |
| 4          | 7093        | HEAD TRACK                     | P.H.TECH     | RIGID PVC        |
| 5          | 7508.M      | MOBILE HORIZONTAL RAIL         | P.H.TECH     | RIGID PVC        |
| 6          | 8933        | SETTING BLOCK                  | P.H.TECH     |                  |
| 7          |             | GLAZING SEALANT                | VARIOUS      | SILICONE         |
| 8          |             | GLASS                          |              |                  |
| 9          | 7541        | SHIM                           | P.H.TECH     | RIGID PVC        |
| 10         | 9732        | TANDEM WHEEL                   | P.H.TECH     |                  |
| 11         | 9790        | ROLLING RAIL                   | P.H.TECH     | ALUMINUM 6063-T5 |
| 12         | 7000        | SILL                           | P.H.TECH     | RIGID PVC        |
| 13         | 8723        | SILL DUST COVER                | P.H.TECH     | RIGID PVC        |
| 14         | 9734        | SILL PLUG                      | P.H.TECH     | RIGID PVC        |
| 15         | 710         | SILL WEATHERSEAL               | P.H.TECH     |                  |
| 16         | 9808        | WEEP HOLE COVER                | P.H.TECH     | RIGID PVC        |
| 17         | 9670        | LEFT CAP FOR SILL ADAPTER      | P.H.TECH     | RIGID PVC        |
| 18         | 9671        | RIGHT CAP FOR SILL ADAPTER     | P.H.TECH     | RIGID PVC        |
| 19         | 9867        | #8x5/8" PH SELF DRILLING SCREW | P.H.TECH     | STAINLESS STEEL  |
| 20         | 9991        | OUTSIDE SILL CLADDING          | P.H.TECH     | ALUMINUM 6063-T5 |
| 21         |             | SEALANT                        |              |                  |
| 22         | 9569        | INSECT STOP                    | P.H.TECH     | RIGID PVC        |
| 23         |             | SCREEN                         | P.H.TECH     |                  |
| 24         | 9876        | #8x7/8" PH QUADREX SCREW       | P.H.TECH     | STAINLESS STEEL  |
| 25         | 7003        | FIXED PANEL ANCHOR BLOCK       | P.H.TECH     | RIGID PVC        |
| 26         | 7508.F      | FIXED HORIZONTAL RAIL          | P.H.TECH     | RIGID PVC        |
| 27         | 9667        | SCREW CAP                      | P.H.TECH     | RIGID PVC        |
| 28         | 5775        | GLAZING BEAD                   | P.H.TECH     | RIGID PVC        |
| 29         | 9853        | FOAM PLUG                      | P.H.TECH     | RIGID PVC        |
| 30         | 703         | HEAD WEATHERSEAL               | P.H.TECH     |                  |
| 31         | 8941        | #8x1 1/4" PH QUADREX SCREW     | P.H.TECH     | STAINLESS STEEL  |
| 32         | 8940        | FIXED PANEL SUPPORT            | P.H.TECH     | RIGID PVC        |
| 33         | 9560        | WEATHER STRIP                  | P.H.TECH     |                  |
| 34         | 7004.G      | LEFT JAMB                      | P.H.TECH     | RIGID PVC        |
| 35         | 9571        | WEATHER STRIP                  | P.H.TECH     |                  |
| 36         | 7517.F      | FIXED PANEL SIDELITE           | P.H.TECH     | RIGID PVC        |
| 37         | 9598        | STEEL REINFORCEMENT            | P.H.TECH     | GALVANIZED STEEL |
| 38         | 9555        | INSECT STOP                    | P.H.TECH     |                  |
| 39         |             | HANDLE KIT                     | P.H.TECH     |                  |
| 40         | 7517.M      | OPERATING PANEL SIDE STILE     | P.H.TECH     | RIGID PVC        |



| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| B         | REVISED PER NEW CODE | 01/10/2024 | R.L.     |



SASH STOPPER DETAIL

SIGNED: 01/23/2024

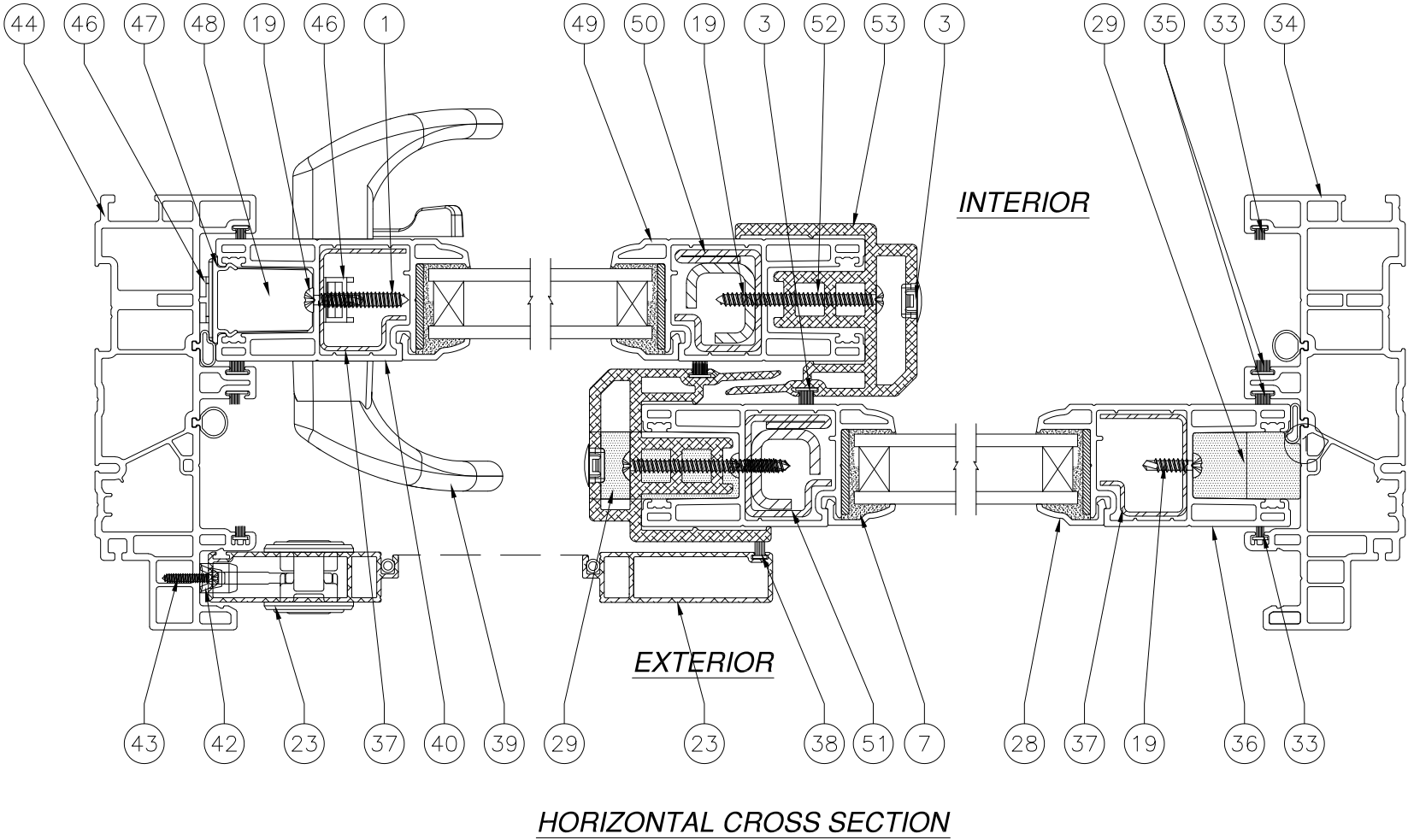
|                                                                                                      |                      |                 |
|------------------------------------------------------------------------------------------------------|----------------------|-----------------|
| PROVIA DOOR, INC.                                                                                    |                      |                 |
| 2150 STATE ROUTE 39 WEST<br>SUGARCREEK, OH 44681                                                     |                      |                 |
| REINFORCED VINYL SLIDING GLASS DOOR<br>COMMERCIAL NON-IMPACT<br>BILL OF MATERIALS AND CROSS SECTIONS |                      |                 |
| DRAWN:<br>V.L.                                                                                       | DWG NO.<br>08-01271B | REV<br>B        |
| SCALE<br>NTS                                                                                         | DATE<br>07/05/11     | SHEET<br>3 OF 7 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com    |                      |                 |



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

| PARTS LIST |             |                               |              |                  |
|------------|-------------|-------------------------------|--------------|------------------|
| NO.        | PART NUMBER | DESCRIPTION                   | MANUFACTURER | MATERIAL         |
| 41         | 8701        | SILL ADAPTER                  | P.H.TECH     | RIGID PVC        |
| 42         | 8960        | KEEPER FOR SCREEN             | P.H.TECH     |                  |
| 43         | 9612        | #4x5/8" PH QUADREX SCREW      | P.H.TECH     | STAINLESS STEEL  |
| 44         | 7004.D      | RIGHT JAMB                    | P.H.TECH     | RIGID PVC        |
| 45         | 8935        | WATER BAR                     | P.H.TECH     | ALUMINUM 6063-T5 |
| 46         | 9249.SS     | DOUBLE POINT MORTISE LOCK KIT | P.H.TECH     | STAINLESS STEEL  |
| 47         | 7523        | SASH COVERING CAP             | P.H. TECH    | RIGID PVC        |
| 48         | 9150        | LOCK PLUG                     | P.H. TECH    | RIGID PVC        |
| 49         | 7506        | MEET STILE                    | P.H.TECH     | RIGID PVC        |
| 50         | 9599        | STEEL REINFORCEMENT           | P.H.TECH     | GALVANIZED STEEL |
| 51         |             | INTERLOCK STEEL REINFORCEMENT | PROVIA       | GALVANIZED STEEL |
| 52         | 9785        | #8x2" TH QUADREX SCREW        | P.H.TECH     | STAINLESS STEEL  |
| 53         | 8936        | INTERLOCK                     | P.H.TECH     | ALUMINUM 6060-T6 |
| 54         |             | #8x1" PH PHILIPS SCREW        | P.H.TECH     | STAINLESS STEEL  |

| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| B         | REVISED PER NEW CODE | 01/10/2024 | R.L.     |



PROVIA DOOR, INC.  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

REINFORCED VINYL SLIDING GLASS DOOR  
COMMERCIAL NON-IMPACT  
BILL OF MATERIALS AND CROSS SECTIONS

DRAWN:  
V.L.

DWG NO.  
08-01271B

REV  
B

SCALE NTS

DATE 07/05/11

SHEET 4 OF 7

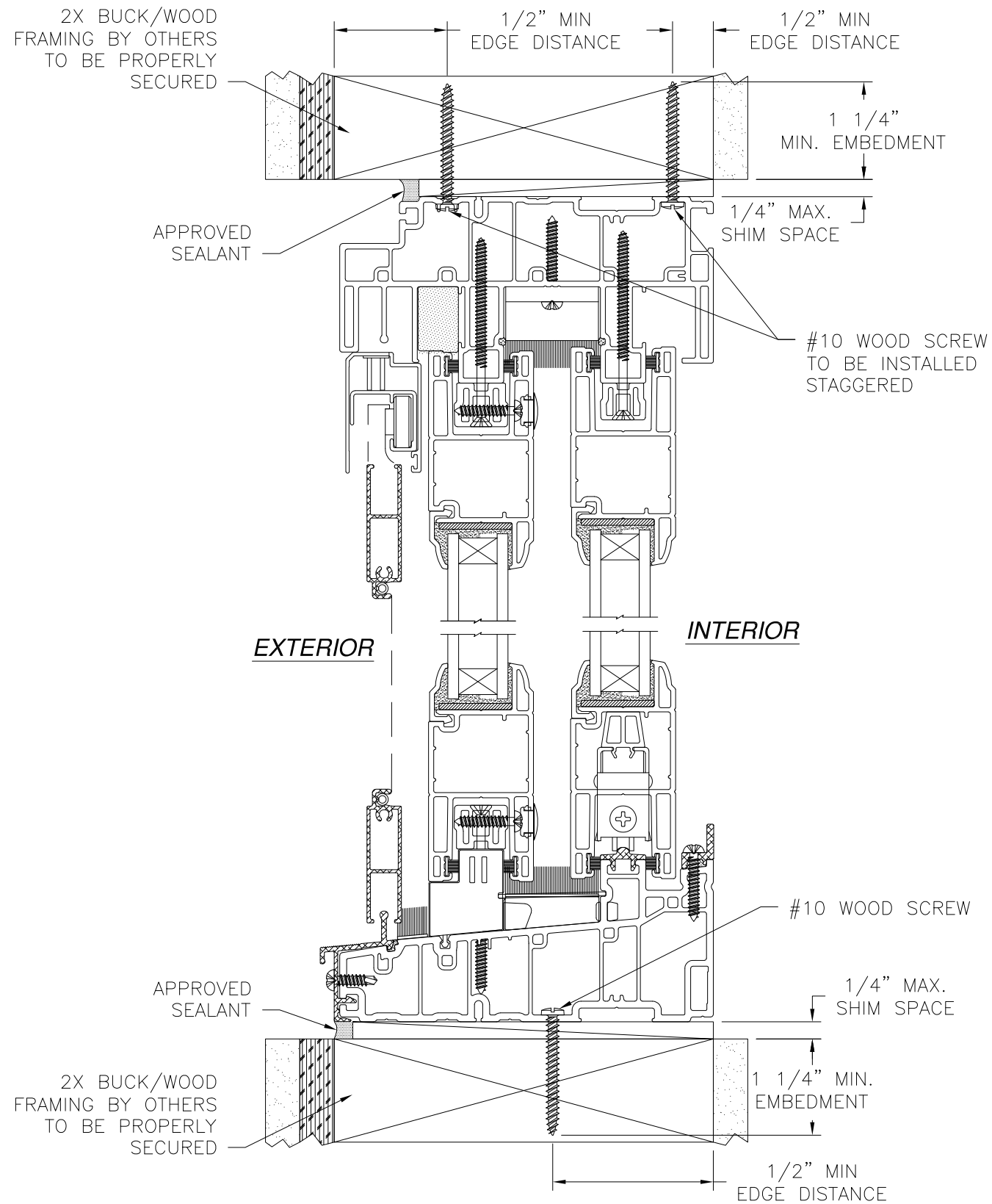
L. ROBERTO LOMAS P.E.  
208 7th Ave, INDIALANTIC, FL 32903  
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 01/23/2024

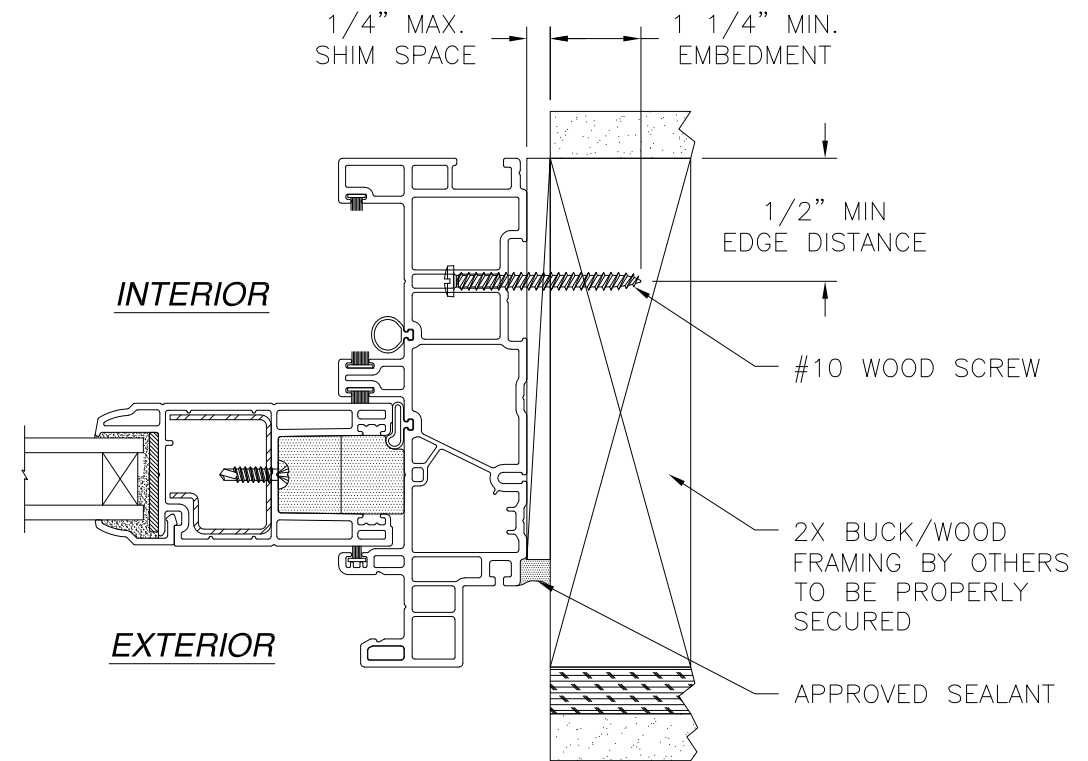


Luis R. Lomas P.E.  
FL No.: 62514

| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| B         | REVISED PER NEW CODE | 01/10/2024 | R.L.     |



**VERTICAL CROSS SECTION**  
2X BUCK/WOOD FRAMING INSTALLATION

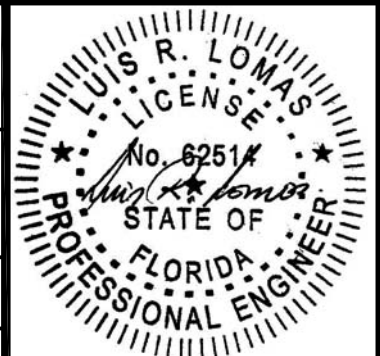


**HORIZONTAL CROSS SECTION**  
2X BUCK/WOOD FRAMING INSTALLATION

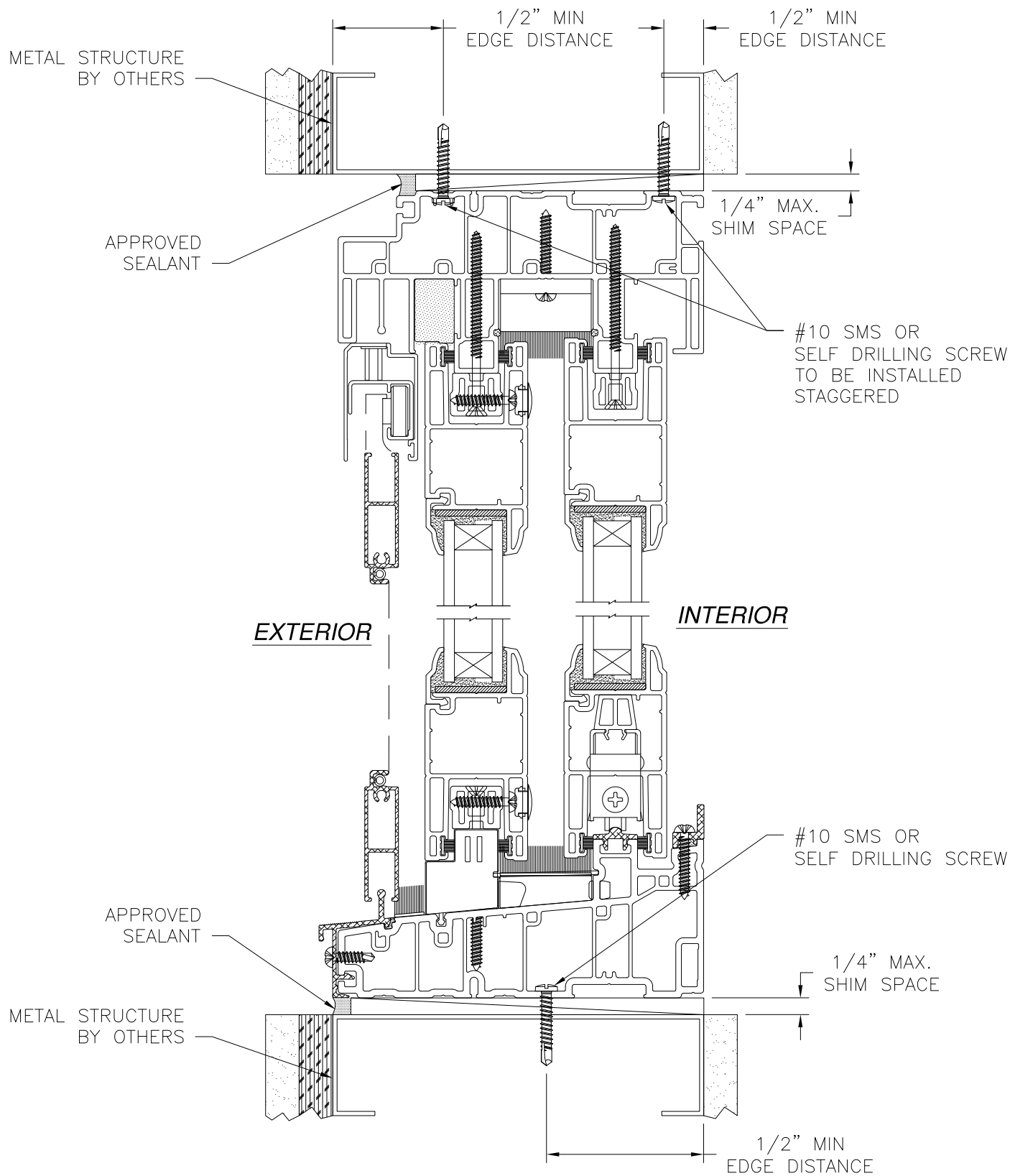
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 01/23/2024

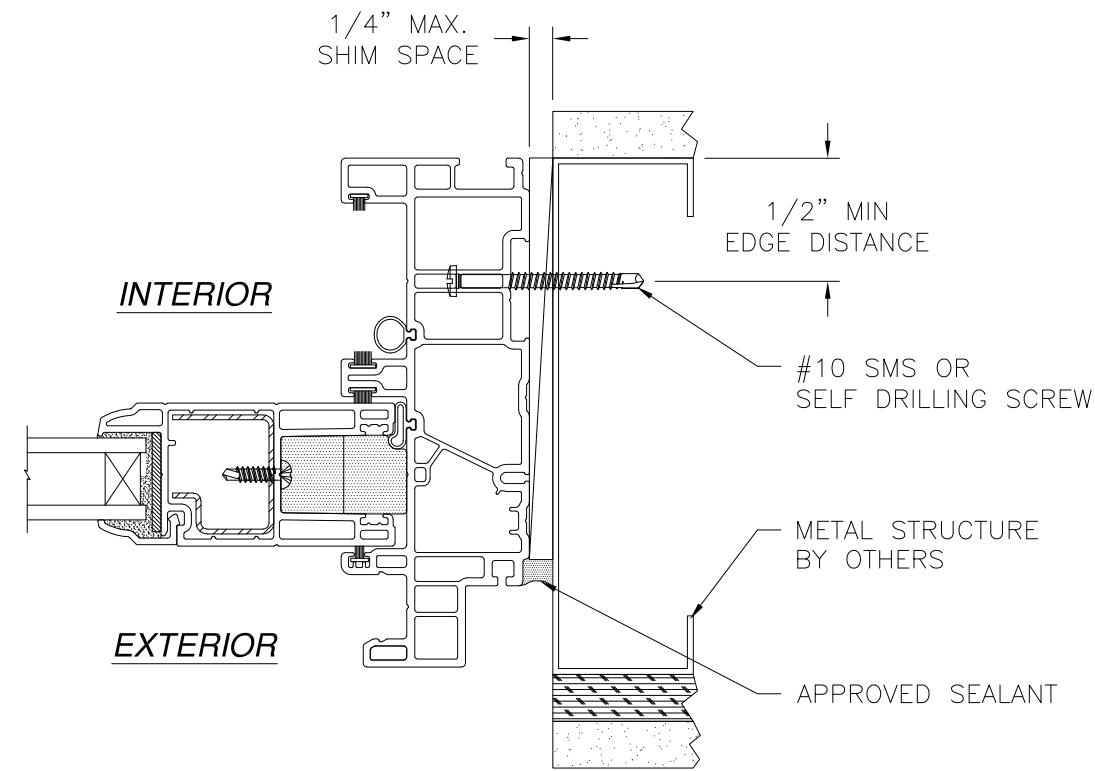
|                                                                                                   |                      |                 |
|---------------------------------------------------------------------------------------------------|----------------------|-----------------|
| PROVIA DOOR, INC.<br>2150 STATE ROUTE 39 WEST<br>SUGARCREEK, OH 44681                             |                      |                 |
| REINFORCED VINYL SLIDING GLASS DOOR<br>COMMERCIAL NON-IMPACT<br>INSTALLATION DETAILS              |                      |                 |
| DRAWN:<br>V.L.                                                                                    | DWG NO.<br>08-01271B | REV<br>B        |
| SCALE<br>NTS                                                                                      | DATE<br>07/05/11     | SHEET<br>5 OF 7 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                      |                 |



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



**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION



**HORIZONTAL CROSS SECTION**  
METAL STRUCTURE 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

| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| B         | REVISED PER NEW CODE | 01/10/2024 | R.L.     |

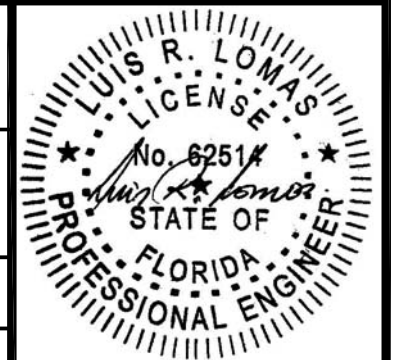
SIGNED: 01/23/2024

PROVIA DOOR, INC.  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

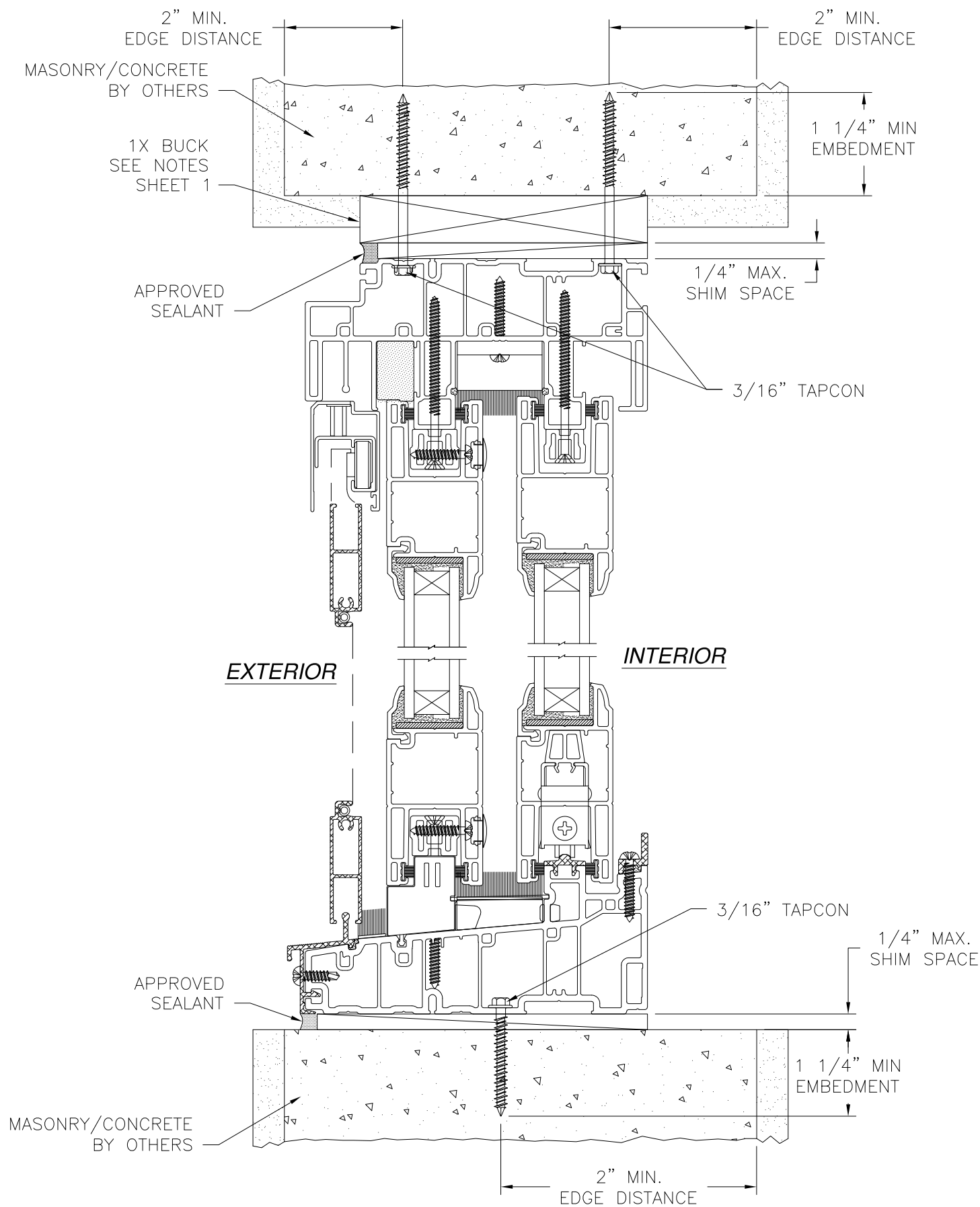
REINFORCED VINYL SLIDING GLASS DOOR  
COMMERCIAL NON-IMPACT  
INSTALLATION DETAILS

|                |                      |                 |
|----------------|----------------------|-----------------|
| DRAWN:<br>V.L. | DWG NO.<br>08-01271B | REV<br>B        |
| SCALE<br>NTS   | DATE<br>07/05/11     | SHEET<br>6 OF 7 |

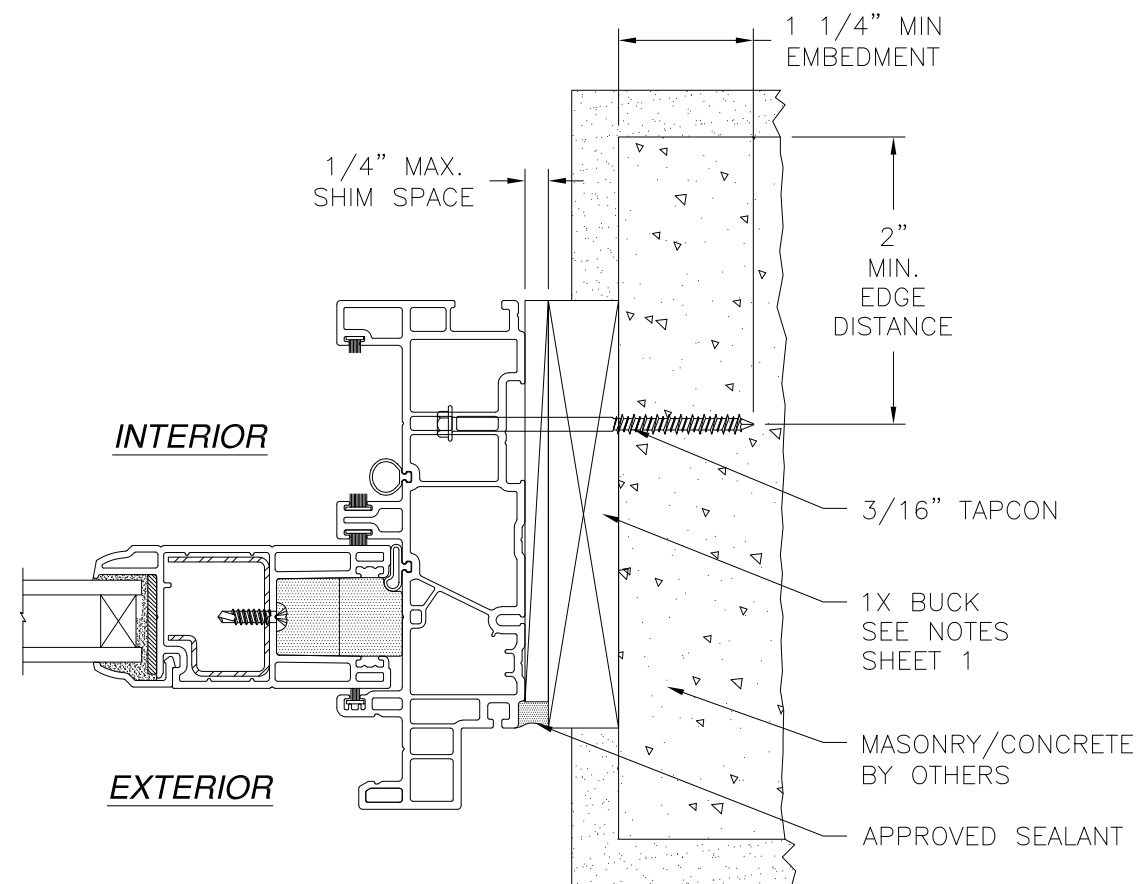
L. ROBERTO LOMAS P.E.  
208 7th Ave, INDIALANTIC, FL 32903  
434-688-0609    rllomas@lrlomaspe.com



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



**VERTICAL CROSS SECTION**  
MASONRY/CONCRETE INSTALLATION



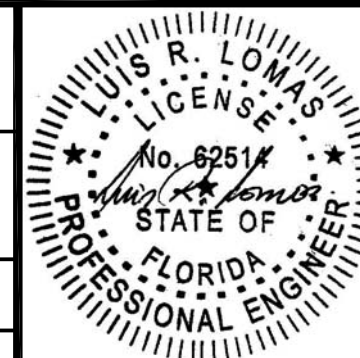
**HORIZONTAL CROSS SECTION**  
MASONRY/CONCRETE INSTALLATION

- 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

| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| B         | REVISED PER NEW CODE | 01/10/2024 | R.L.     |

SIGNED: 01/23/2024

|                                                                                                           |                      |                 |
|-----------------------------------------------------------------------------------------------------------|----------------------|-----------------|
| <b>PROVIA DOOR, INC.</b><br>2150 STATE ROUTE 39 WEST<br>SUGARCREEK, OH 44681                              |                      |                 |
| <b>REINFORCED VINYL SLIDING GLASS DOOR</b><br><b>COMMERCIAL NON-IMPACT</b><br><b>INSTALLATION DETAILS</b> |                      |                 |
| DRAWN:<br>V.L.                                                                                            | DWG NO.<br>08-01271B | REV<br>B        |
| SCALE<br>NTS                                                                                              | DATE<br>07/05/11     | SHEET<br>7 OF 7 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com         |                      |                 |



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