

| REVISIONS |                               |            |          |
|-----------|-------------------------------|------------|----------|
| REV       | DESCRIPTION                   | DATE       | APPROVED |
| A         | REVISE TO ADD GLAZING DETAILS | 05/13/2025 | R.L.     |

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. 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.
5. 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.
6. 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.
7. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. 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".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME JAMB AND HEAD MATERIAL: CO-EXTRUDED PVC FOAM 1 1/2" THICK.
12. FRAME SILL MATERIAL: CO-EXTRUDED PVC FOAM 2" THICK WITH ALUMINUM CLADDING .063" THICK.
13. DOOR PANEL AND SIDELITE MATERIAL: .075" THICK FIBERGLASS SKIN WITH PVC FOAM TOP AND BOTTOM RAILS, AND PVC FOAM VERTICAL STILES WITH PINE REINFORCEMENTS AND POLYURETHANE FOAM CORE.
14. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
15. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

16. FOR ANCHORING THROUGH FRAME 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.
17. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" TAPCON 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.
18. FOR ANCHORING THROUGH FRAME 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.
19. ALL FASTENERS TO BE CORROSION RESISTANT.
20. 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 2,000 PSI.
  - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
  - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .075" THICK MINIMUM
21. APPROVED CONFIGURATIONS: O, X, OX, XO, XX, OXO, XXO, OXX AND OXXO. SEE SHEET 3.
22. HINGES LOCATED AT 9", 34 1/2", 60" AND 85 5/8" FROM BOTTOM OF PANEL.

| TABLE OF CONTENTS |                         |
|-------------------|-------------------------|
| SHEET NO.         | DESCRIPTION             |
| 1                 | NOTES                   |
| 2                 | ELEVATION               |
| 3                 | APPROVED CONFIGURATIONS |
| 4 - 5             | ANCHORING LAYOUTS       |
| 6 - 12            | INSTALLATION DETAILS    |
| 13                | GLAZING DETAILS         |
| 14                | COMPONENTS              |

NAN YA PLASTICS CORP. USA

8989 NORTH LOOP EAST

HOUSTON, TX 77029

OUT-SWING PATIO DOOR W/SIDELITES

FIBERGLASS GLAZED NON-IMPACT

NOTES

DRAWN: A.R.

DWG NO. 08-03402

REV A

SCALE NTS

DATE 04/01/19

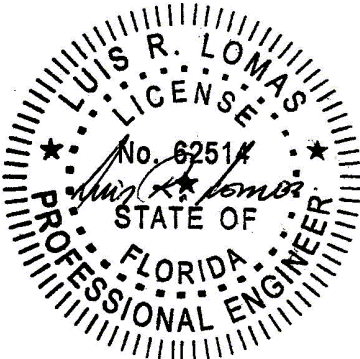
SHEET 1 OF 14

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434-688-0609 rlomas@lrlomaspe.com

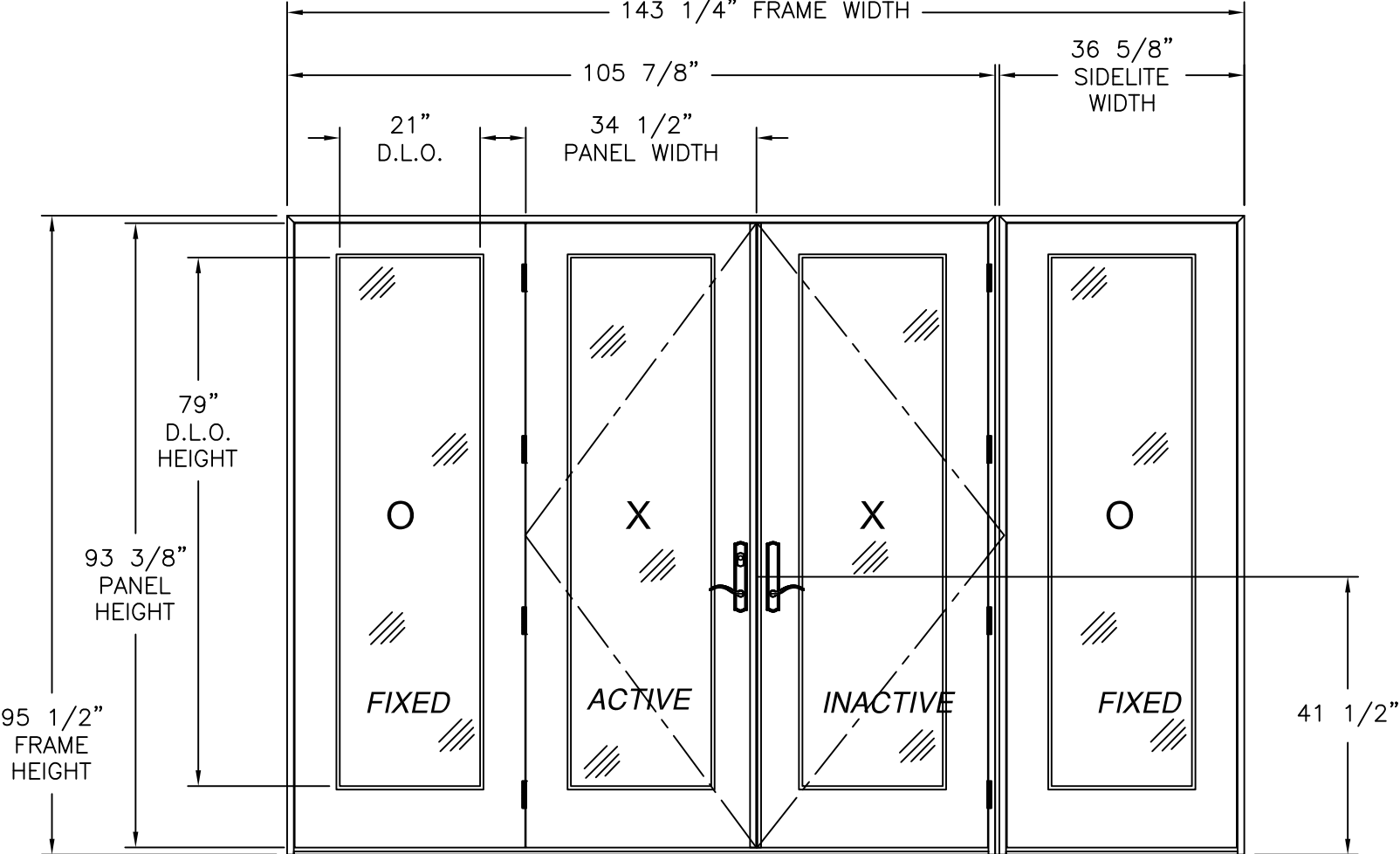
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Luis R. Lomas P.E.

FL No.: 62514

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OUT-SWING PATIO DOUBLE DOOR W/ SIDELITES  
EXTERIOR VIEW

| DESIGN PRESSURE RATING | IMPACT RATING |
|------------------------|---------------|
| ±65.0PSF               | NONE          |

34 1/2" X 93 3/8" PANELS SHOWN. OTHER PANEL SIZES ARE APPROVED  
AS LONG AS PANEL AREA DOES NOT EXCEED 22.37 FT²

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HOUSTON, TX 77029

OUT-SWING PATIO DOOR W/SIDELITES  
FIBERGLASS GLAZED NON-IMPACT  
ELEVATION 2

DRAWN:  
A.R.

DWG NO.  
08-03402

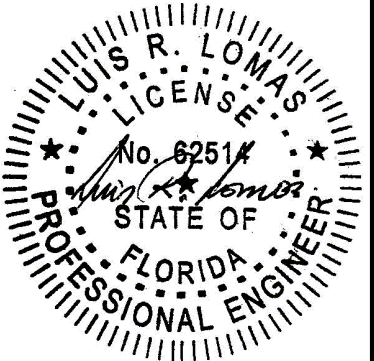
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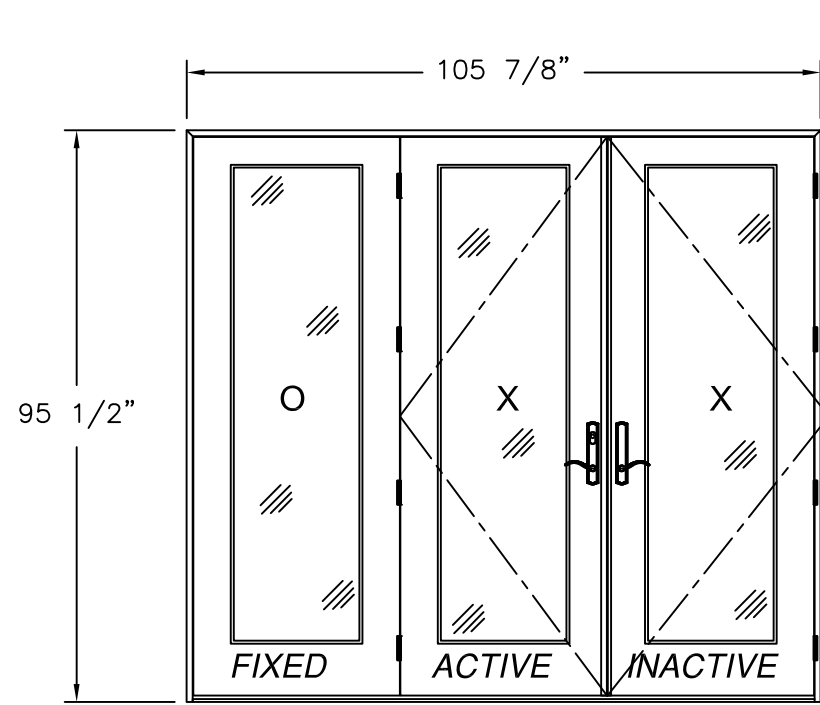
DATE 04/01/19

SHEET 1 OF 14

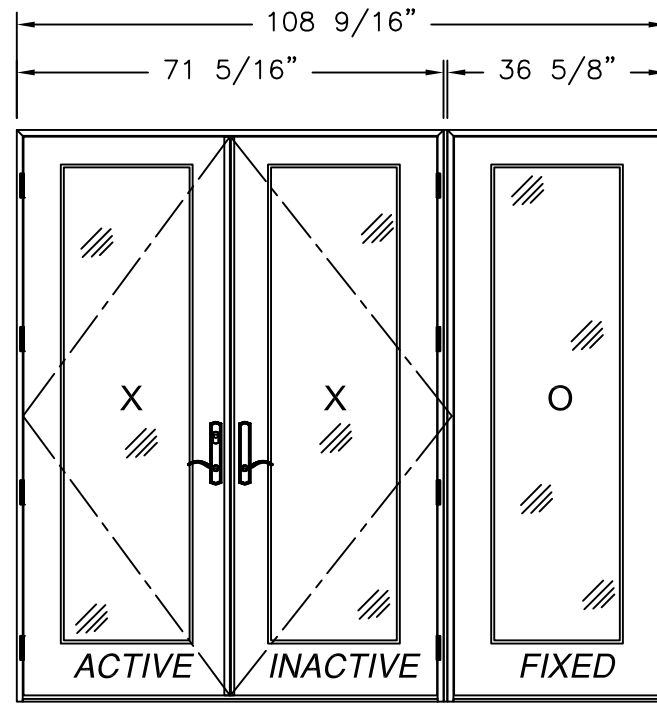
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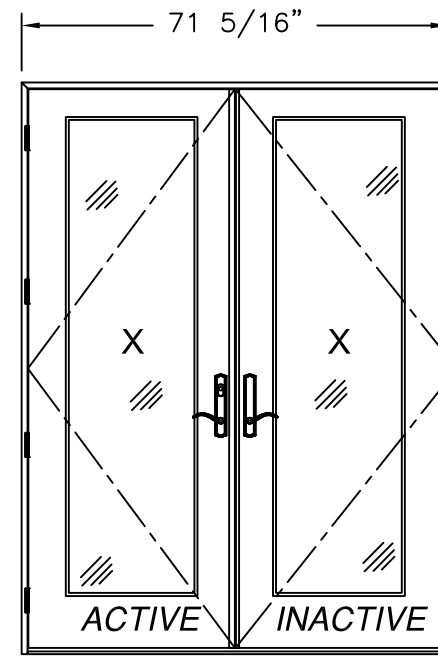
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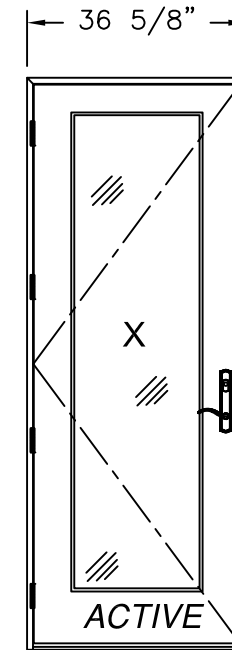
DOUBLE W/SIDELITE  
EXTERIOR VIEW



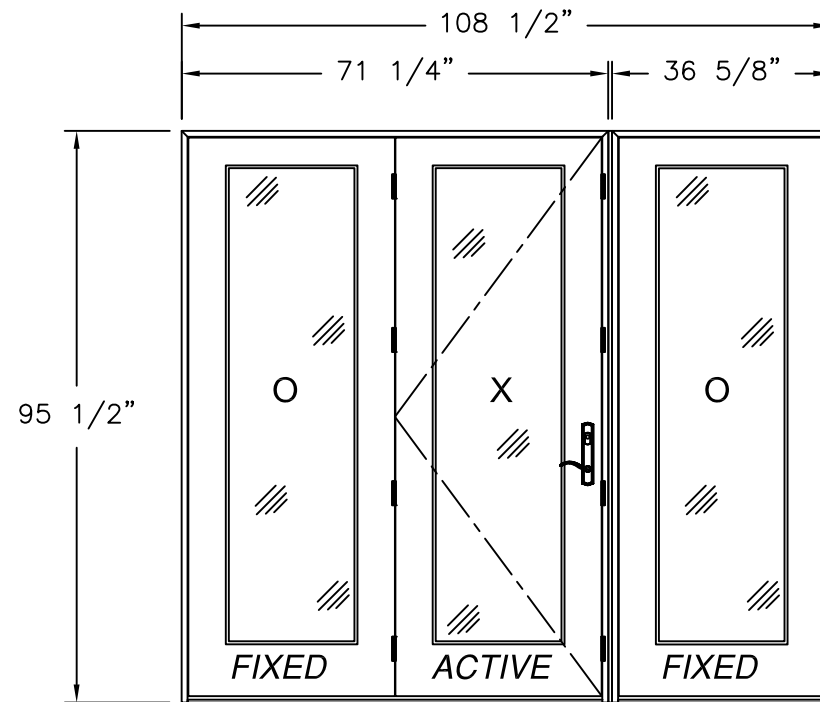
DOUBLE W/SIDELITE (MULL)  
EXTERIOR VIEW



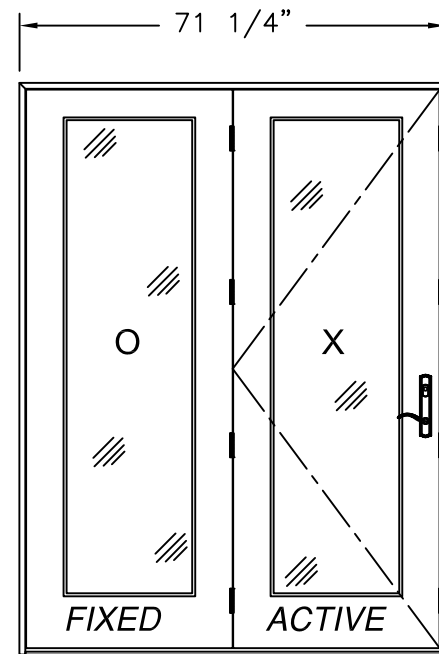
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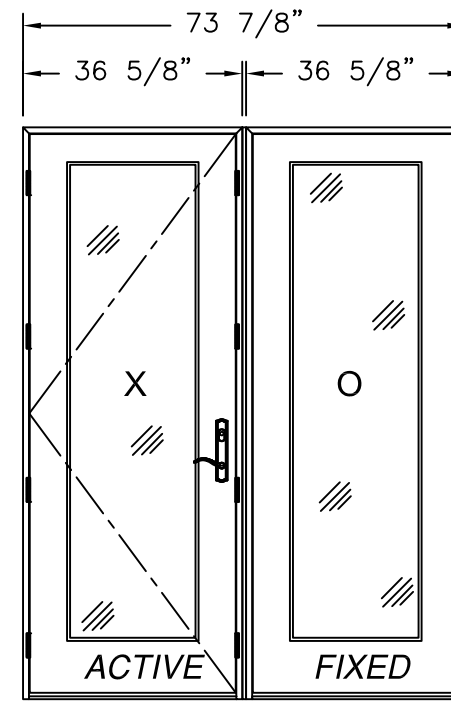
SINGLE  
EXTERIOR VIEW



SINGLE W/SIDELITE (MULL)  
EXTERIOR VIEW



SINGLE W/SIDELITE  
EXTERIOR VIEW



SINGLE W/SIDELITE (MULL)  
EXTERIOR VIEW

NOTE:  
ALL APPROVED CONFIGURATIONS ARE SHOWN AS LEFT  
HAND ACTIVE, RIGHT HAND ACTIVE IS ALSO APPROVED.

HARDWARE SCHEDULE

- A. (3) 4" BUTT HINGE  
B. 3 POINT LOCK SYSTEM (ACTIVE PANEL)  
C. RIGID PVC ASTRAGAL WITH ALUMINUM REINFORCEMENT

REVISIONS

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HOUSTON, TX 77029

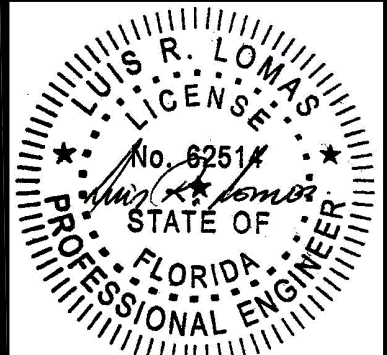
OUT-SWING PATIO DOOR W/SIDELITES  
FIBERGLASS GLAZED NON-IMPACT  
APPROVED CONFIGURATIONS

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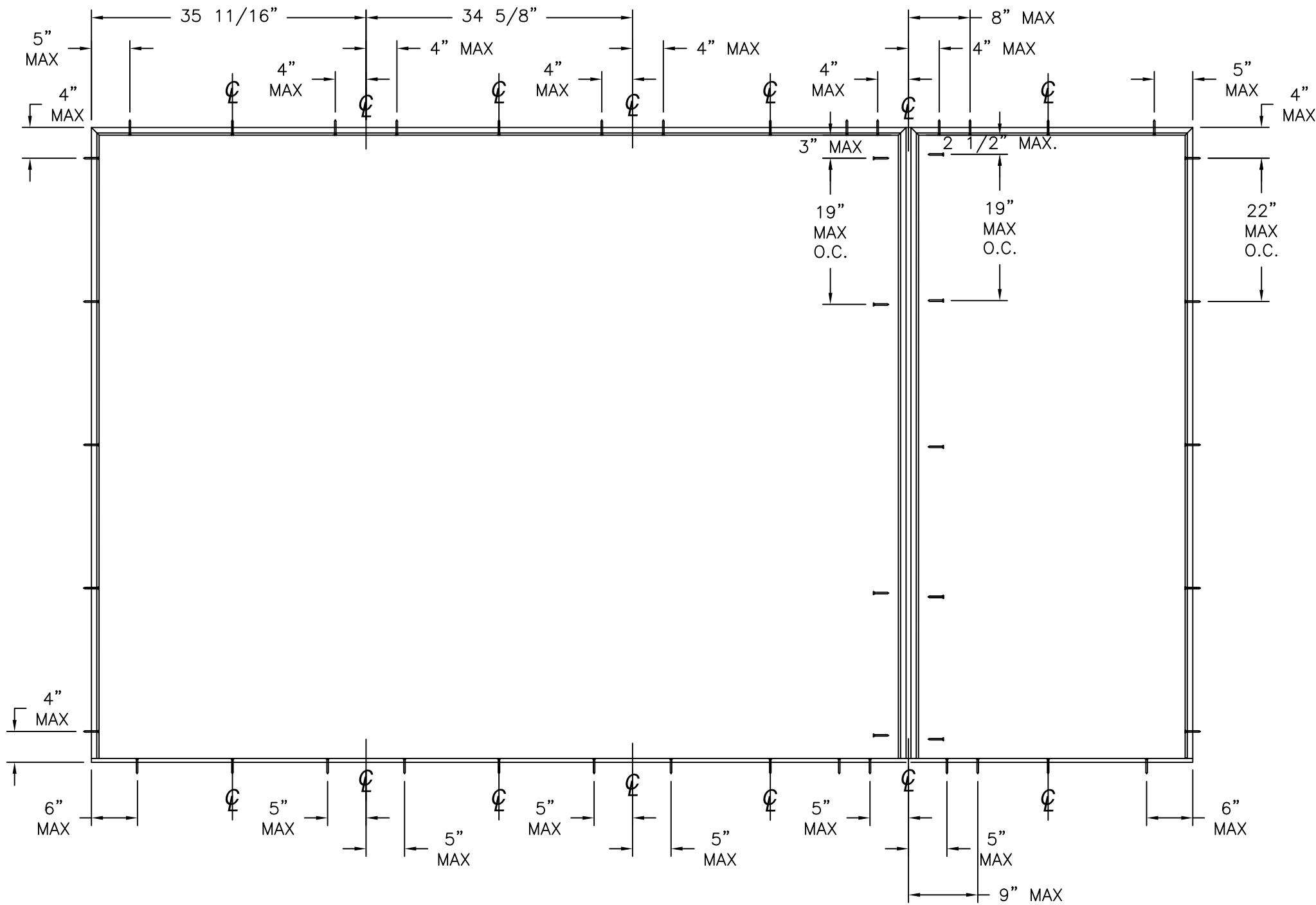
SCALE NTS DATE 04/01/19 SHEET 3 OF 14

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SIGNED: 05/22/2025



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ANCHORING LAYOUT

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OUT-SWING PATIO DOOR W/SIDELITES  
FIBERGLASS GLAZED NON-IMPACT  
ANCHORING LAYOUT

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DWG NO.  
08-03402

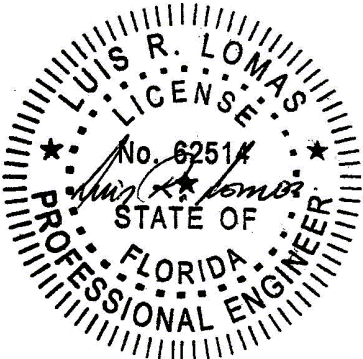
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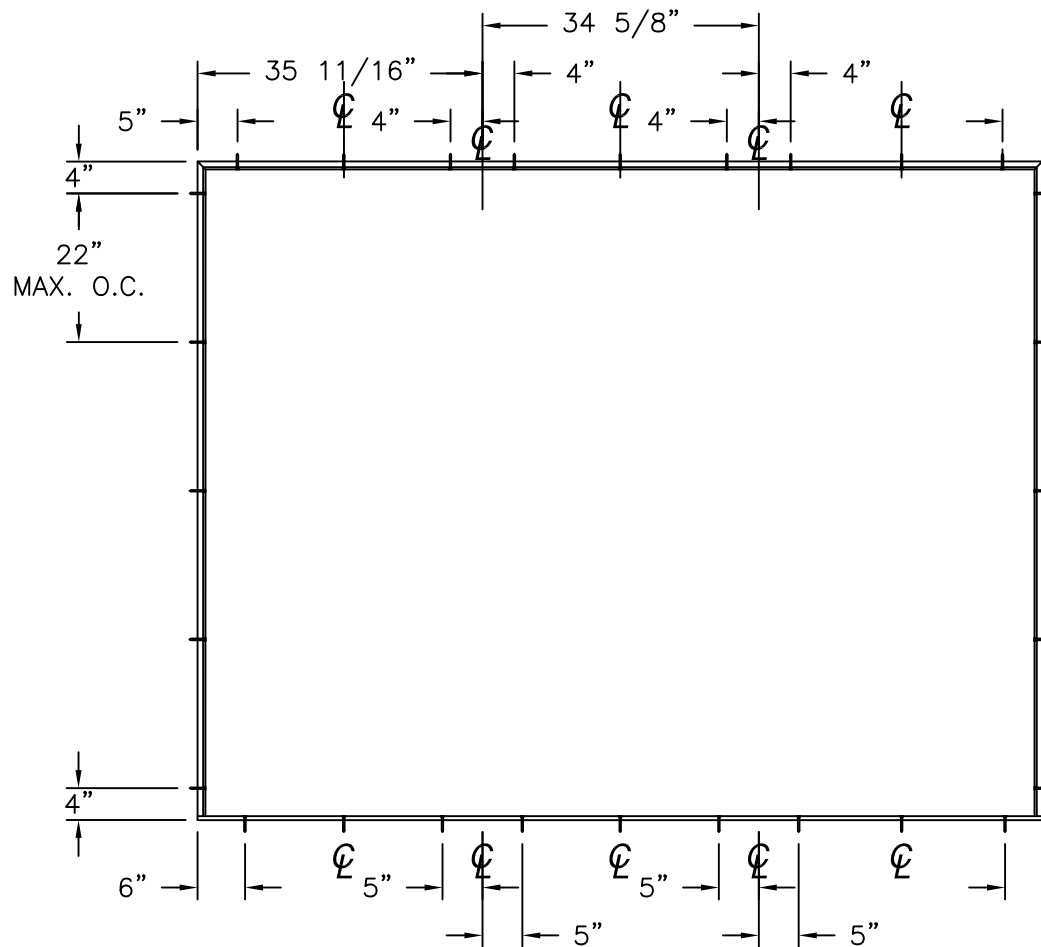
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SHEET 4 OF 14

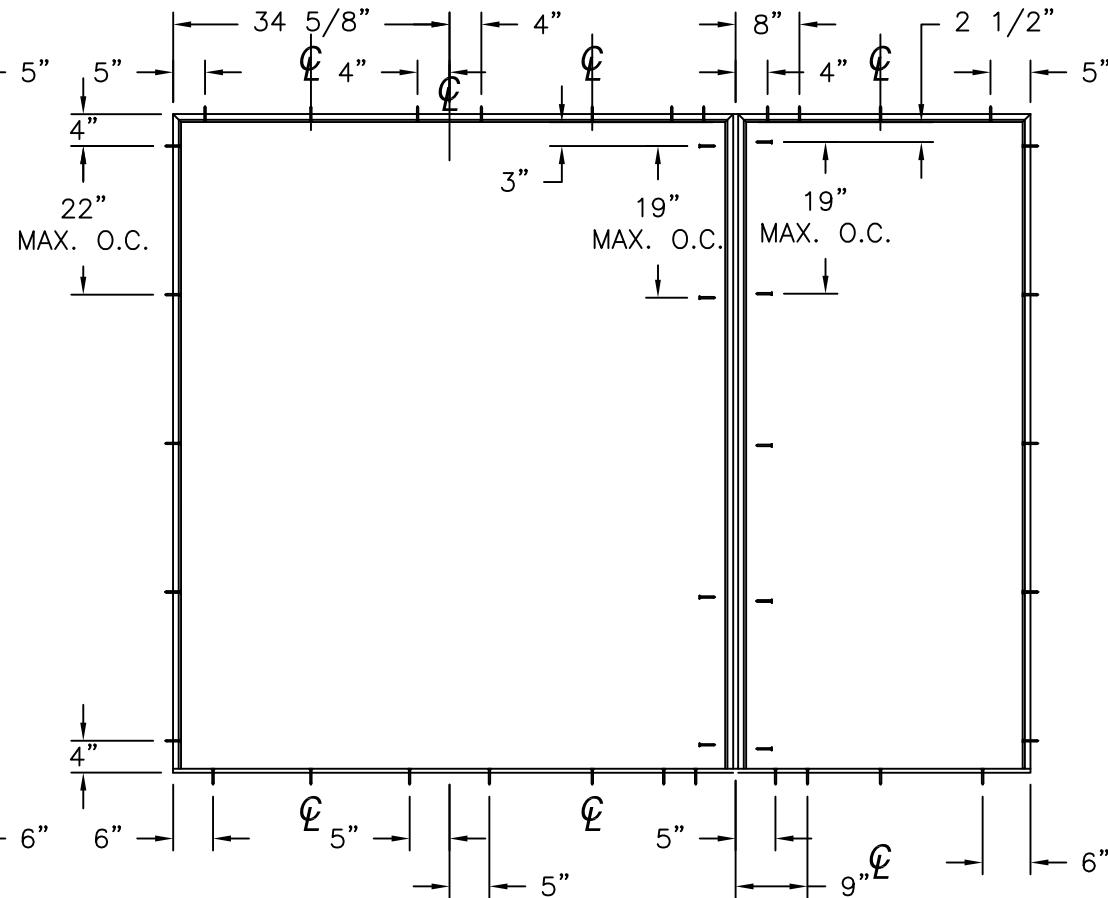
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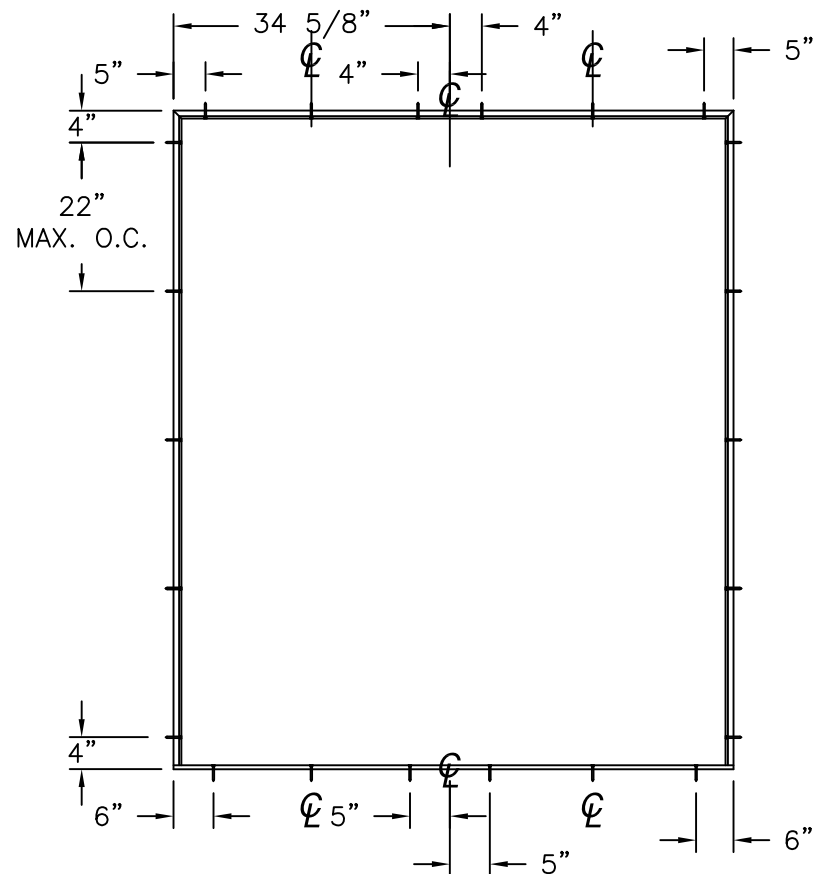
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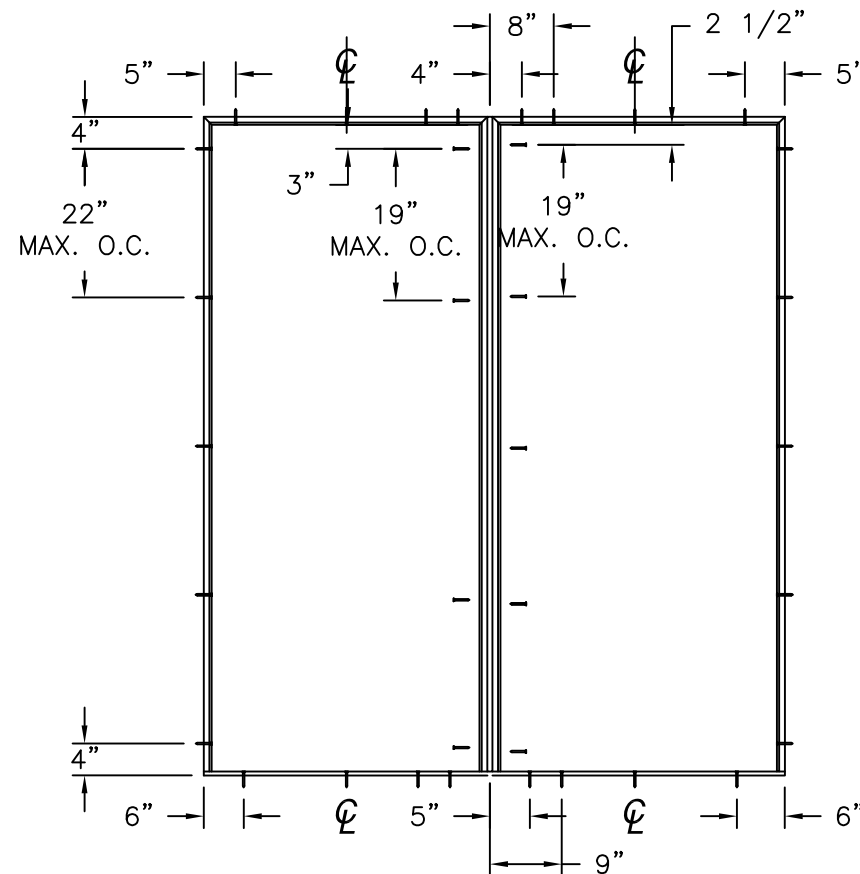
ANCHORING LAYOUT FOR OXO, XXO AND OXX



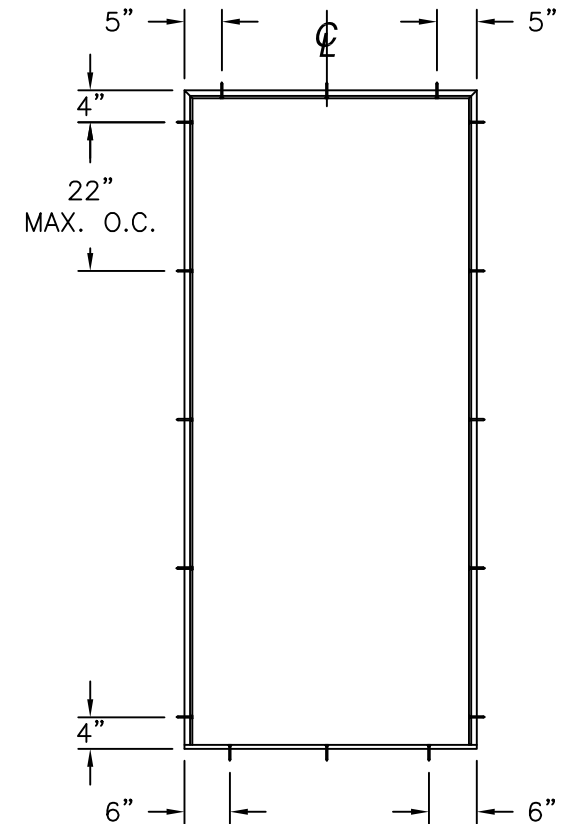
ANCHORING LAYOUT FOR OXO, XXO AND OXX (MULL)



ANCHORING LAYOUT FOR XX, OX AND XO



ANCHORING LAYOUT FOR OX AND XO (MULL)



ANCHORING LAYOUT FOR X

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OUT-SWING PATIO DOOR W/SIDELITES  
FIBERGLASS GLAZED NON-IMPACT  
ANCHORING LAYOUTS

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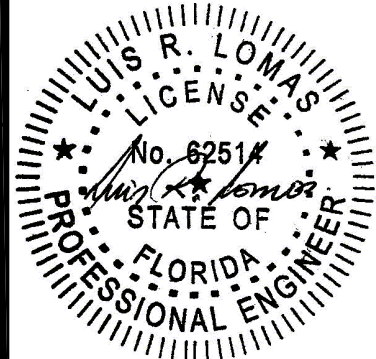
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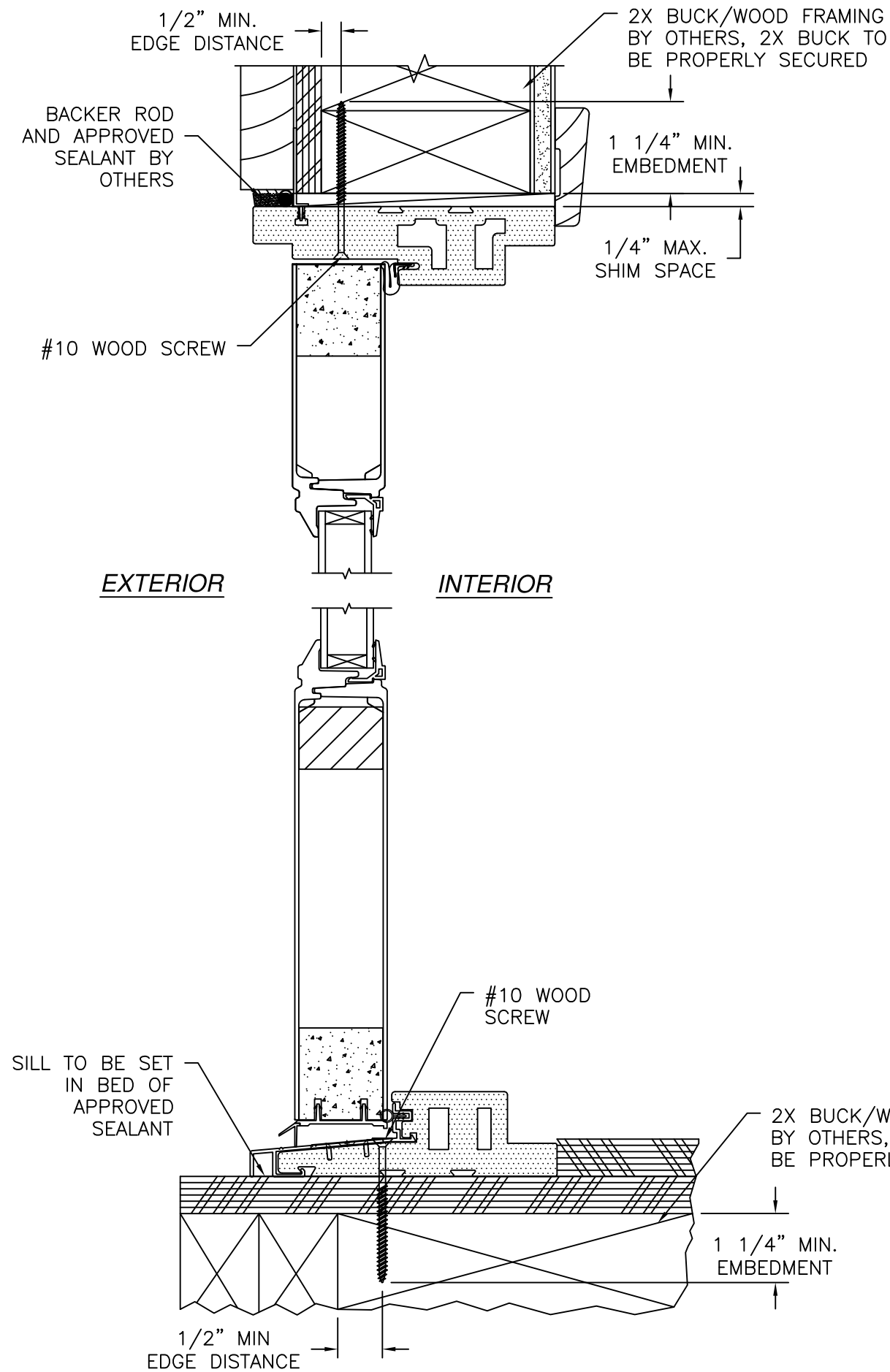
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5 OF 14

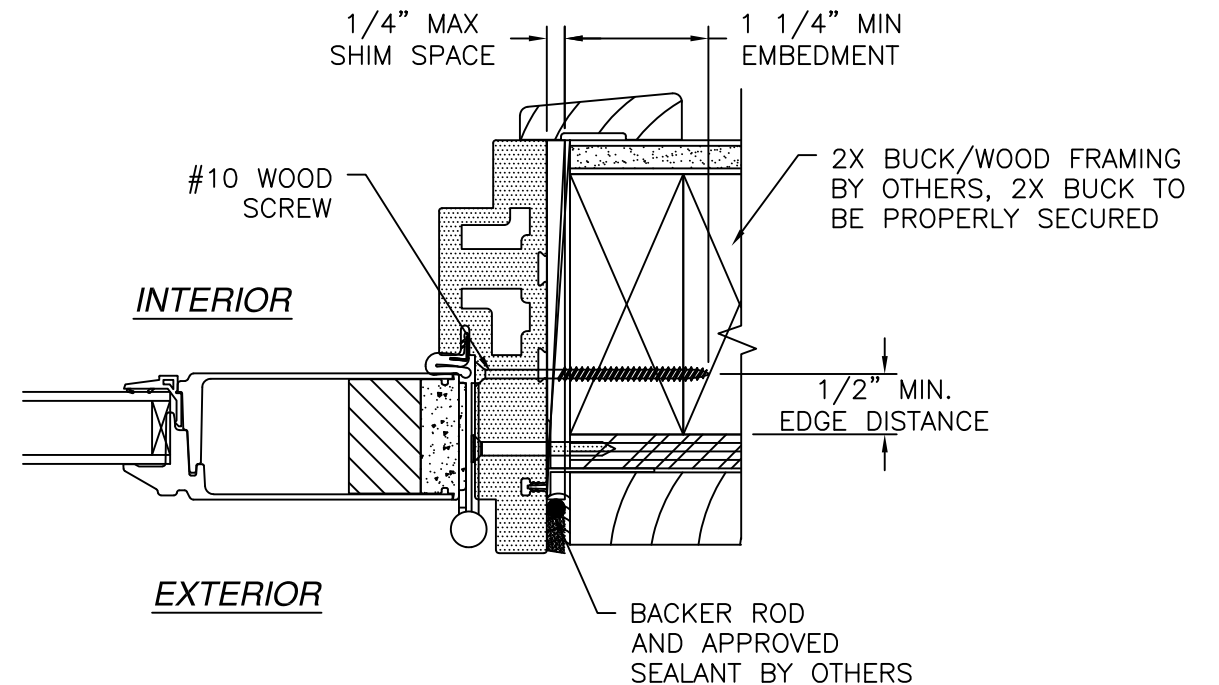
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**DOOR VERTICAL CROSS SECTION**  
2X BUCK/WOOD FRAMING INSTALLATION

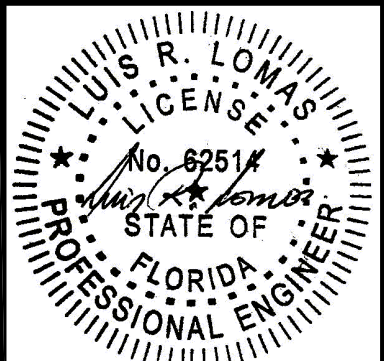


**DOOR HORIZONTAL CROSS SECTION**  
2X BUCK/WOOD FRAMING INSTALLATION

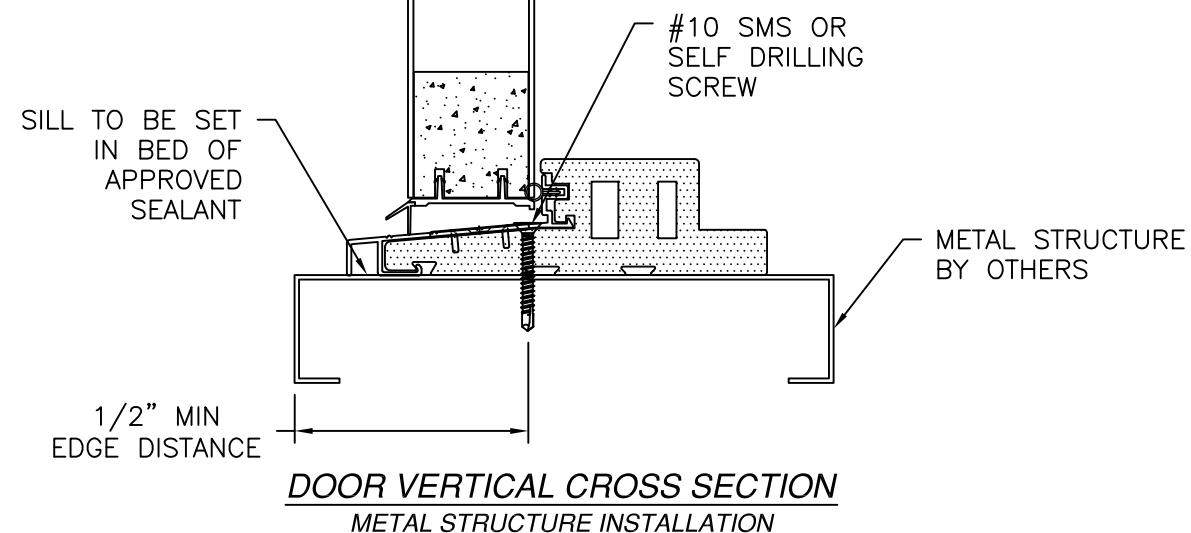
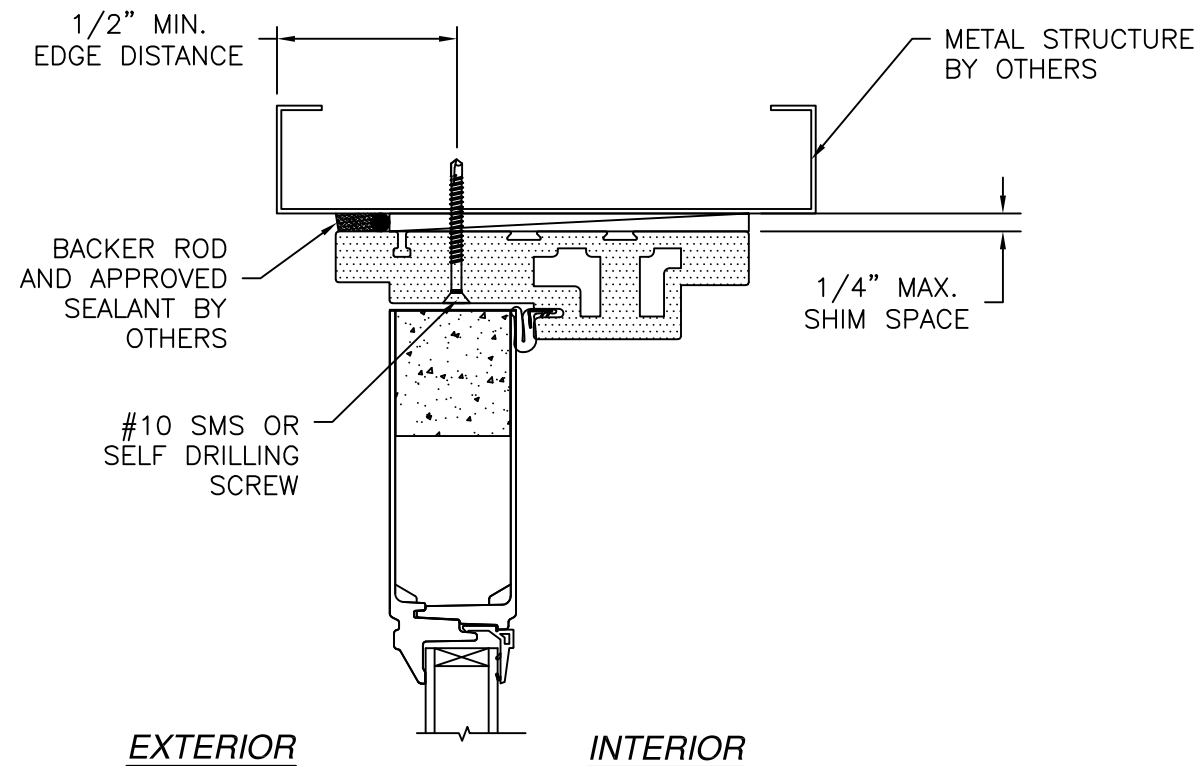
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 05/22/2025

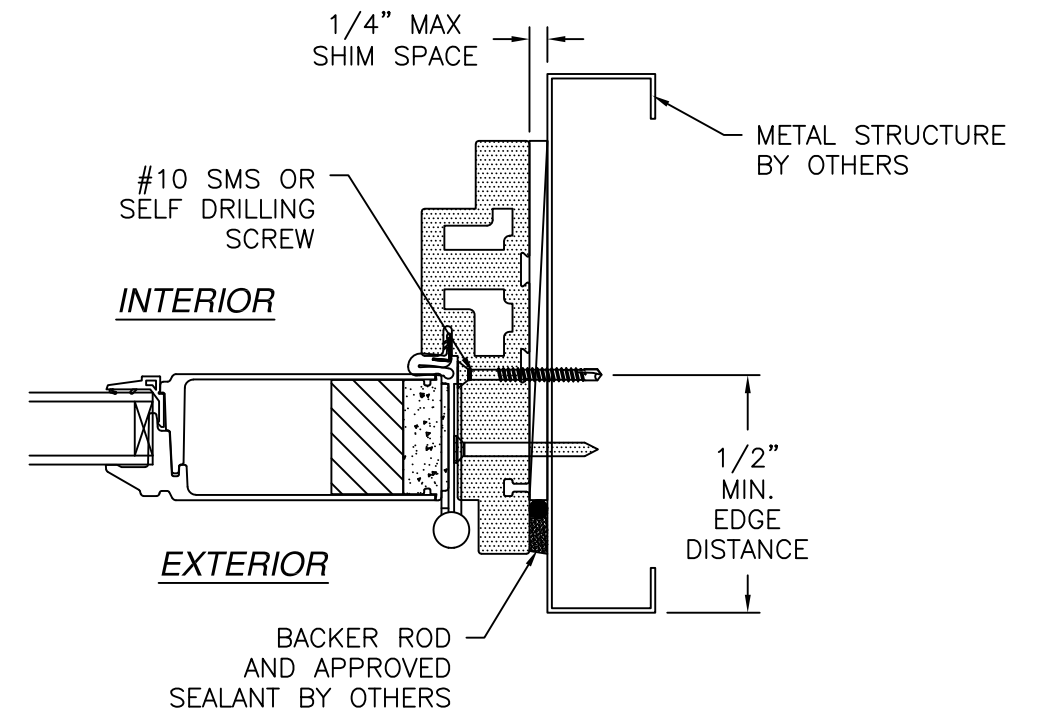
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| <b>NAN YA PLASTICS CORP. USA</b><br>8989 NORTH LOOP EAST<br>HOUSTON, TX 77029                                      |                            |                         |
| <b>OUT-SWING PATIO DOOR W/SIDELITES</b><br><b>FIBERGLASS GLAZED NON-IMPACT</b><br><b>DOOR INSTALLATION DETAILS</b> |                            |                         |
| DRAWN:<br><b>A.R.</b>                                                                                              | DWG NO.<br><b>08-03402</b> | REV<br><b>A</b>         |
| SCALE<br><b>NTS</b>                                                                                                | DATE<br><b>04/01/19</b>    | SHEET<br><b>6 OF 14</b> |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com                  |                            |                         |



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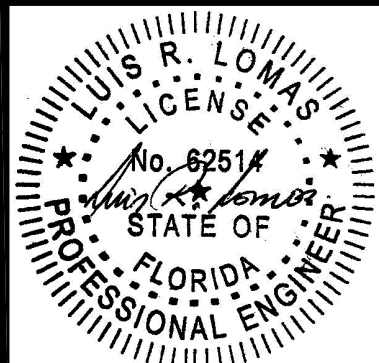


**DOOR HORIZONTAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION

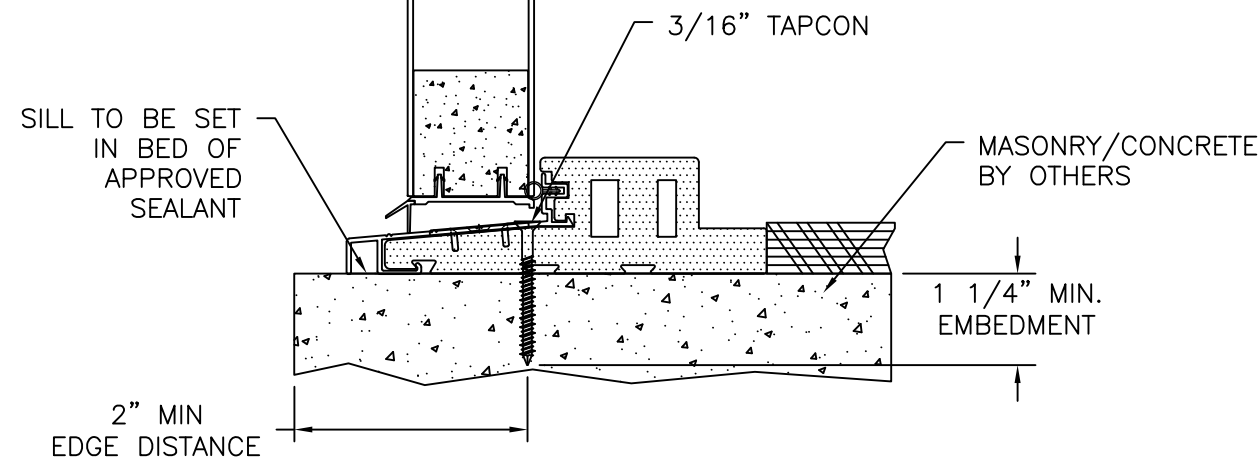
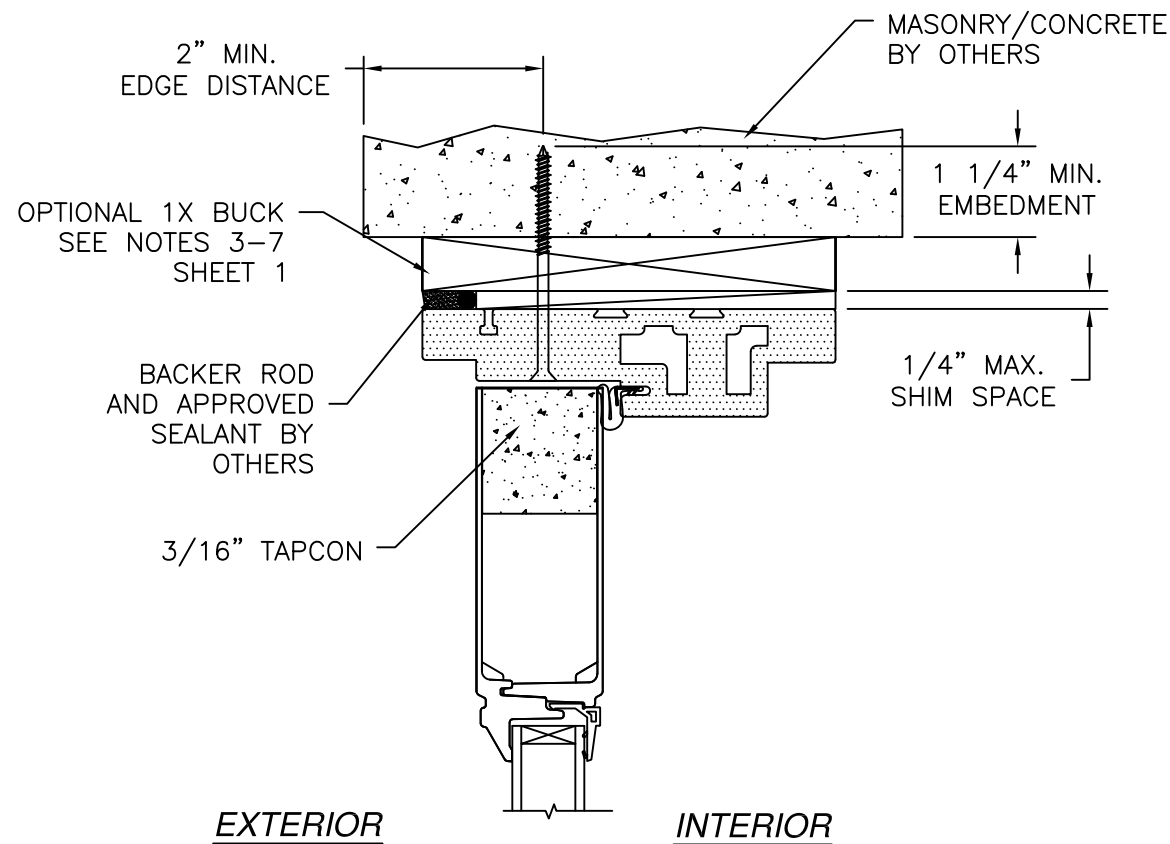
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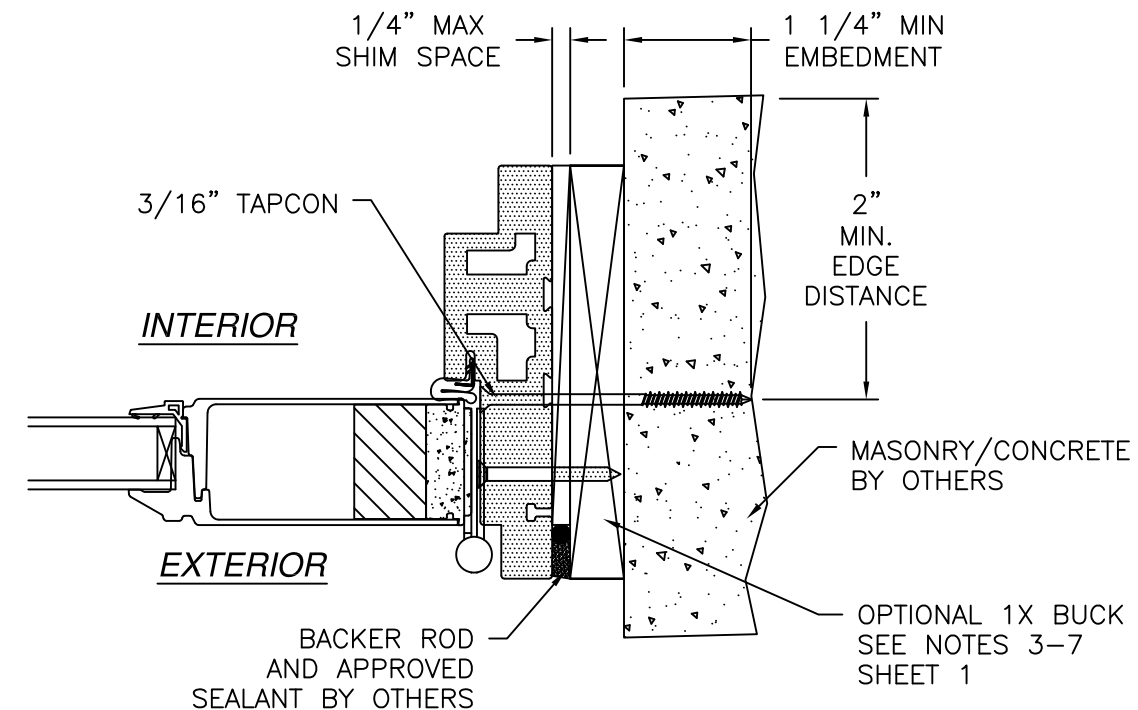
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|---------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|
| <b>NAN YA PLASTICS CORP. USA</b><br>8989 NORTH LOOP EAST<br>HOUSTON, TX 77029                     |                            |                             |
| OUT-SWING PATIO DOOR W/SIDELITES<br>FIBERGLASS GLAZED NON-IMPACT<br>DOOR INSTALLATION DETAILS     |                            |                             |
| DRAWN:<br><b>A.R.</b>                                                                             | DWG NO.<br><b>08-03402</b> | REV<br><b>A</b>             |
| SCALE <b>NTS</b>                                                                                  | DATE <b>04/01/19</b>       | SHEET <b>7</b> OF <b>14</b> |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                            |                             |



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**DOOR VERTICAL CROSS SECTION**  
MASONRY/CONCRETE INSTALLATION



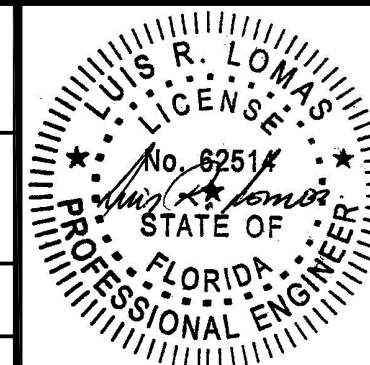
**DOOR HORIZONTAL CROSS SECTION**  
MASONRY/CONCRETE INSTALLATION

**NOTES:**

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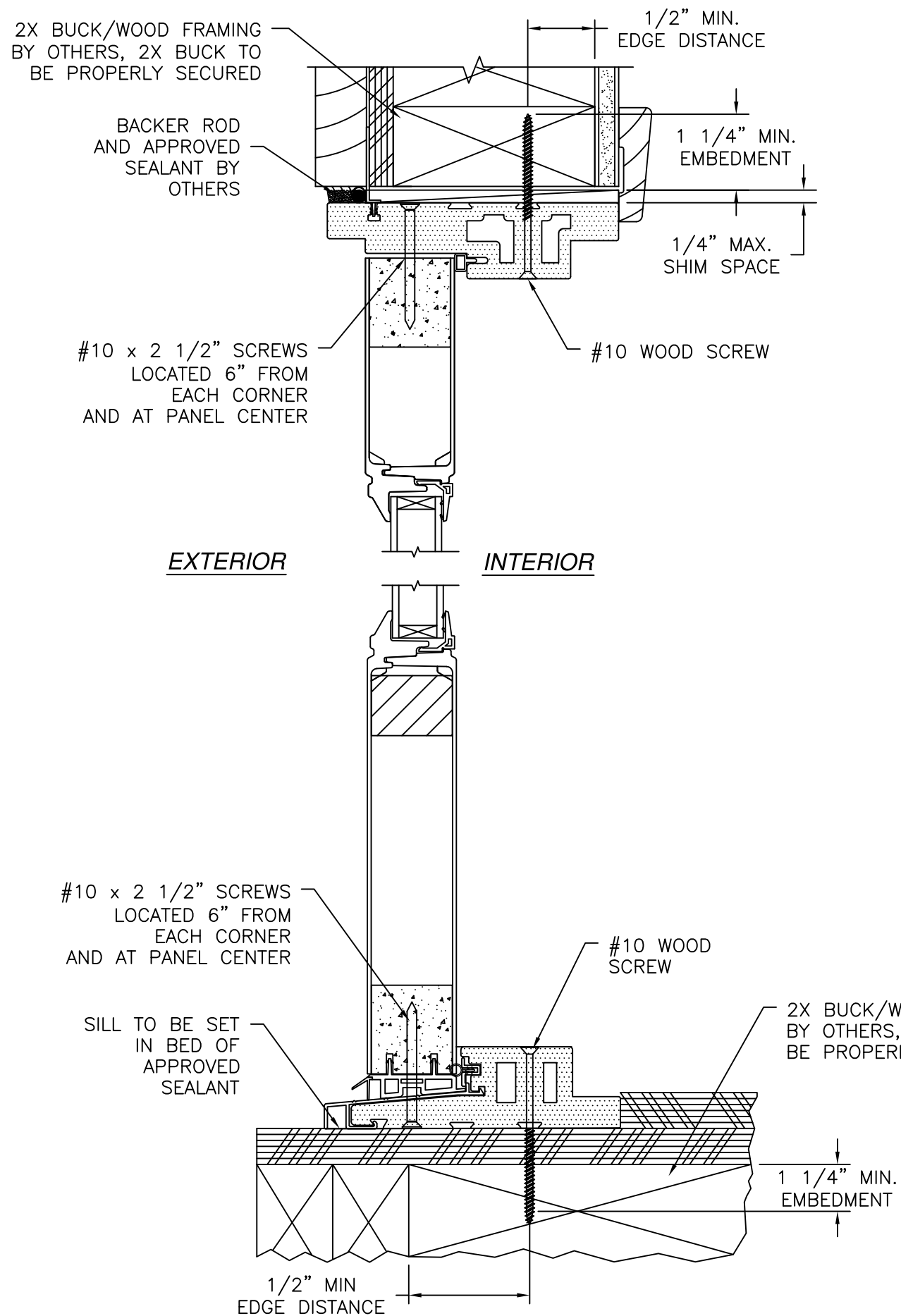
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|                                                                                                                    |                            |                         |
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| <b>NAN YA PLASTICS CORP. USA</b><br>8989 NORTH LOOP EAST<br>HOUSTON, TX 77029                                      |                            |                         |
| <b>OUT-SWING PATIO DOOR W/SIDELITES</b><br><b>FIBERGLASS GLAZED NON-IMPACT</b><br><b>DOOR INSTALLATION DETAILS</b> |                            |                         |
| DRAWN:<br><b>A.R.</b>                                                                                              | DWG NO.<br><b>08-03402</b> | REV<br><b>A</b>         |
| SCALE<br><b>NTS</b>                                                                                                | DATE<br><b>04/01/19</b>    | SHEET<br><b>8 OF 14</b> |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com                  |                            |                         |

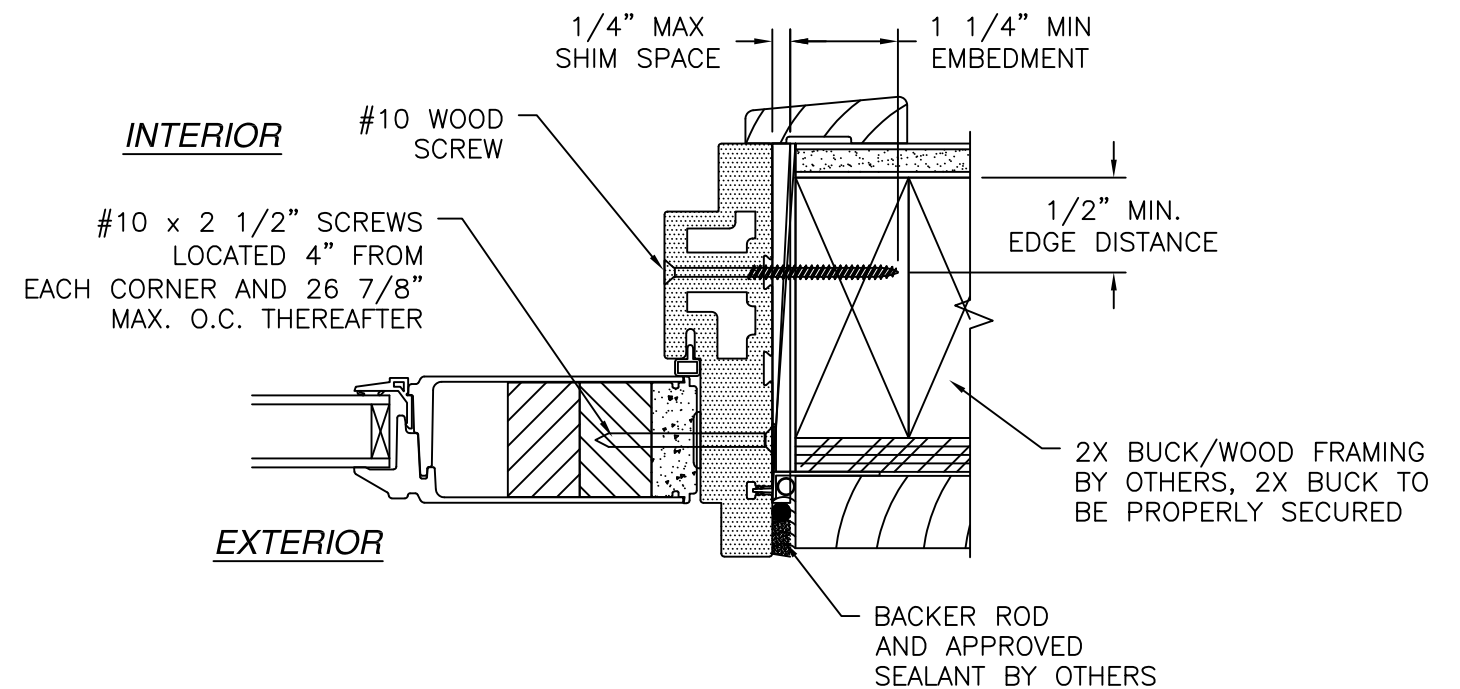


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**SIDELITE VERTICAL CROSS SECTION**  
2X BUCK/WOOD FRAMING INSTALLATION

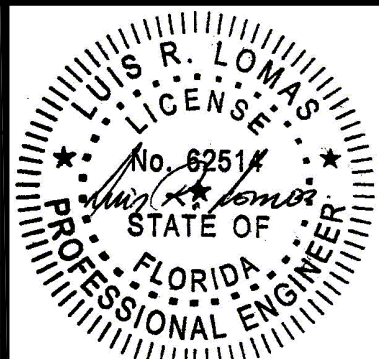


**SIDELITE HORIZONTAL CROSS SECTION**  
2X BUCK/WOOD FRAMING INSTALLATION

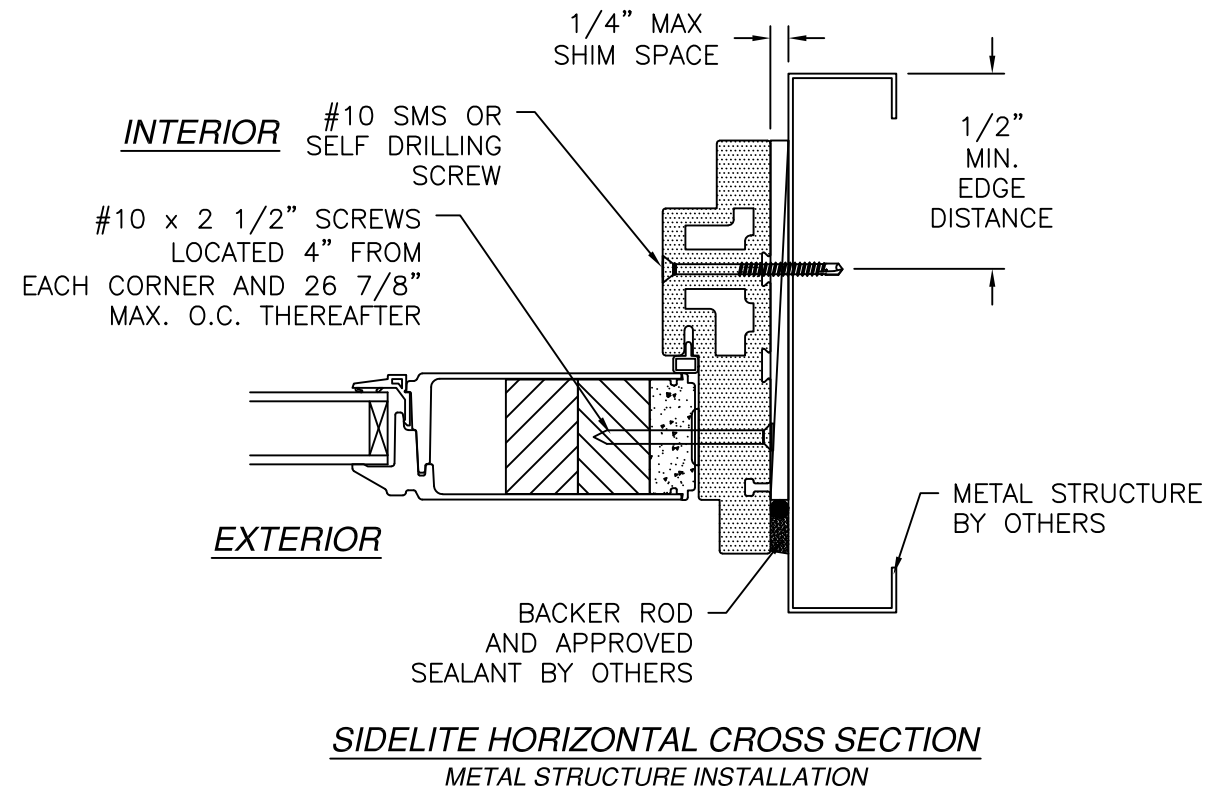
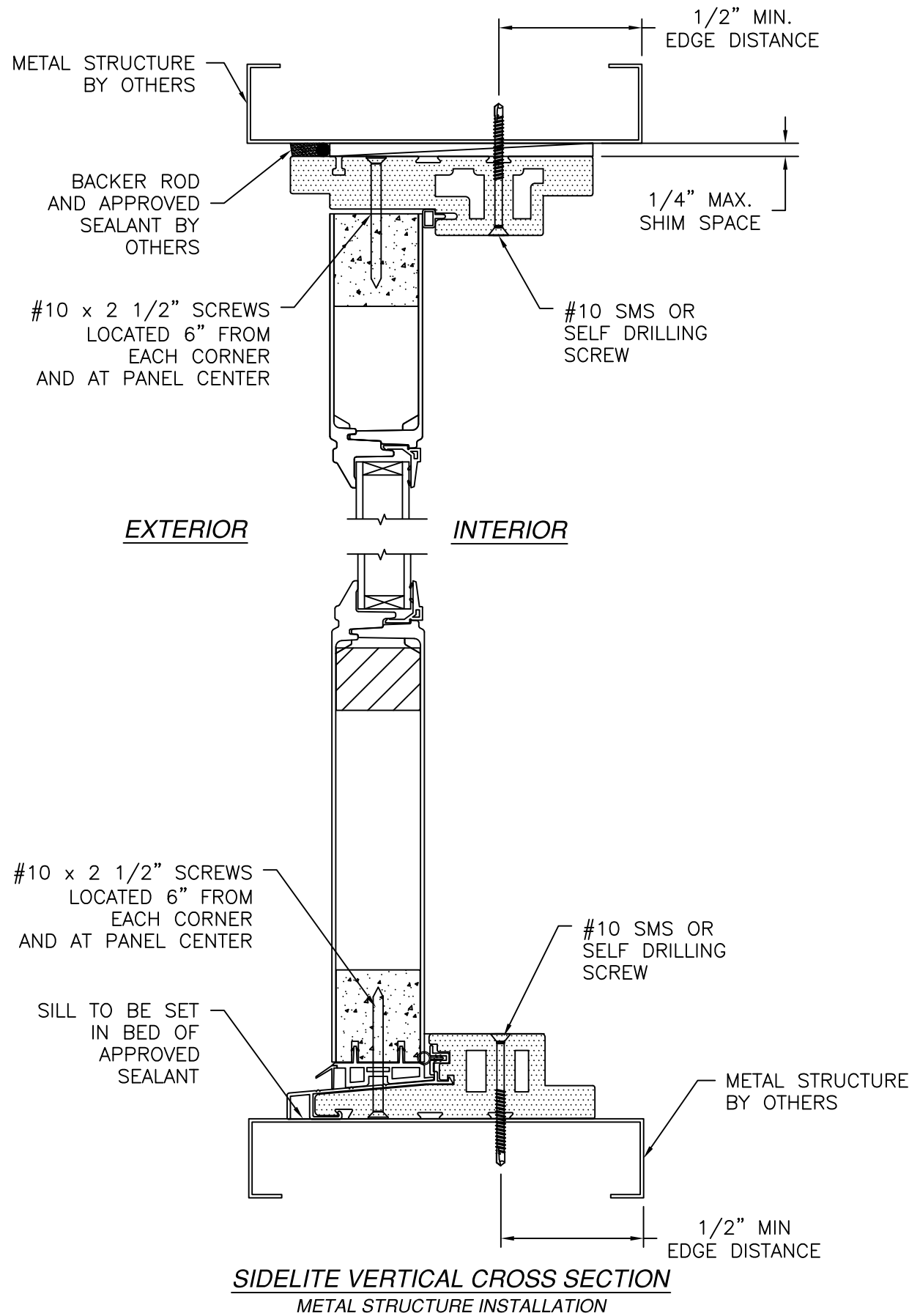
- NOTES:**
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|                                                                                                          |                            |                         |
|----------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|
| <b>NAN YA PLASTICS CORP. USA</b><br>8989 NORTH LOOP EAST<br>HOUSTON, TX 77029                            |                            |                         |
| <b>OUT-SWING PATIO DOOR W/SIDELITES</b><br>FIBERGLASS GLAZED NON-IMPACT<br>SIDELITE INSTALLATION DETAILS |                            |                         |
| DRAWN:<br><b>A.R.</b>                                                                                    | DWG NO.<br><b>08-03402</b> | REV<br><b>A</b>         |
| SCALE<br><b>NTS</b>                                                                                      | DATE<br><b>04/01/19</b>    | SHEET<br><b>9 OF 14</b> |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com        |                            |                         |

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FL No.: 62514

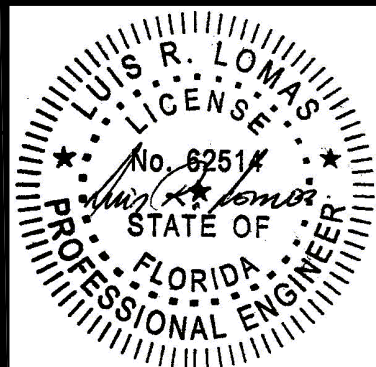


- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

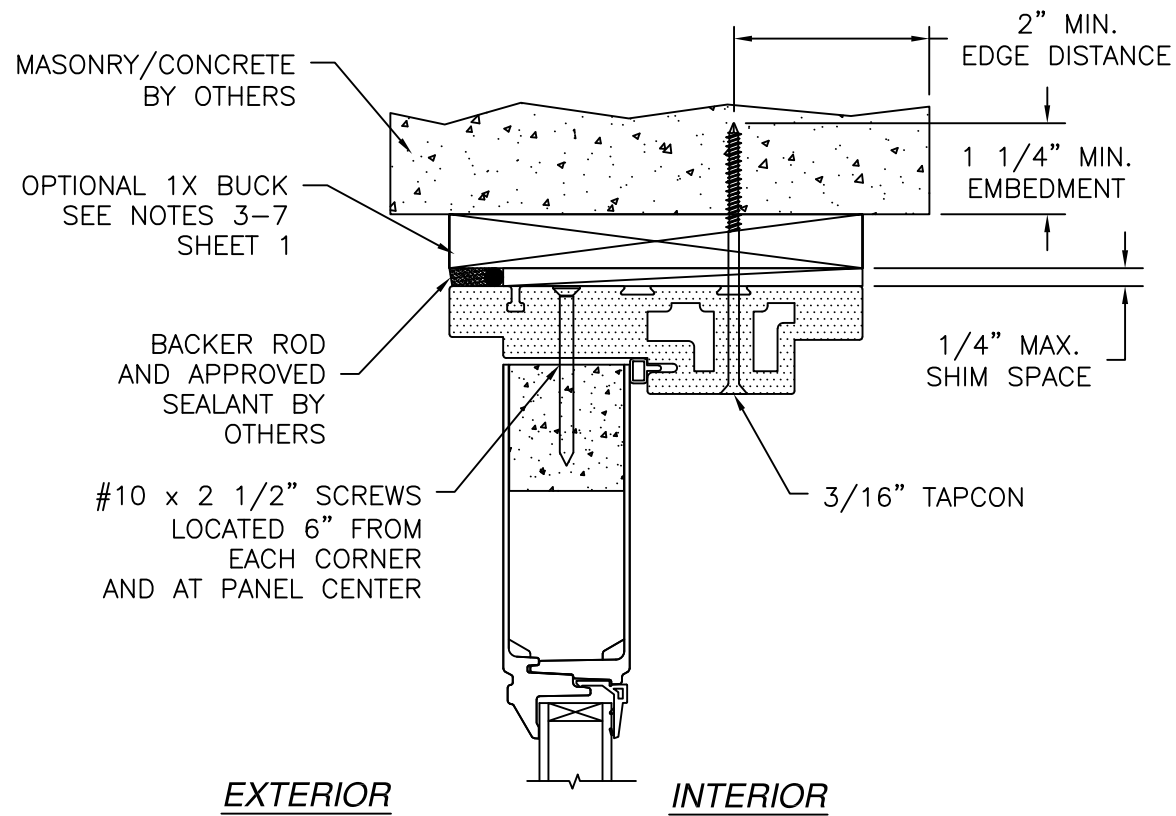
| REVISIONS |                               |            |          |
|-----------|-------------------------------|------------|----------|
| REV       | DESCRIPTION                   | DATE       | APPROVED |
| A         | REVISE TO ADD GLAZING DETAILS | 05/13/2025 | R.L.     |

SIGNED: 05/22/2025

|                                                                                                   |                            |                          |
|---------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| <b>NAN YA PLASTICS CORP. USA</b><br>8989 NORTH LOOP EAST<br>HOUSTON, TX 77029                     |                            |                          |
| OUT-SWING PATIO DOOR W/SIDELITES<br>FIBERGLASS GLAZED NON-IMPACT<br>SIDELITE INSTALLATION DETAILS |                            |                          |
| DRAWN:<br><b>A.R.</b>                                                                             | DWG NO.<br><b>08-03402</b> | REV<br><b>A</b>          |
| SCALE<br><b>NTS</b>                                                                               | DATE<br><b>04/01/19</b>    | SHEET<br><b>10 OF 14</b> |
| 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



EXTERIOR

INTERIOR

#10 x 2 1/2" SCREWS  
LOCATED 6" FROM  
EACH CORNER  
AND AT PANEL CENTER

SILL TO BE SET  
IN BED OF  
APPROVED  
SEALANT

3/16" TAPCON

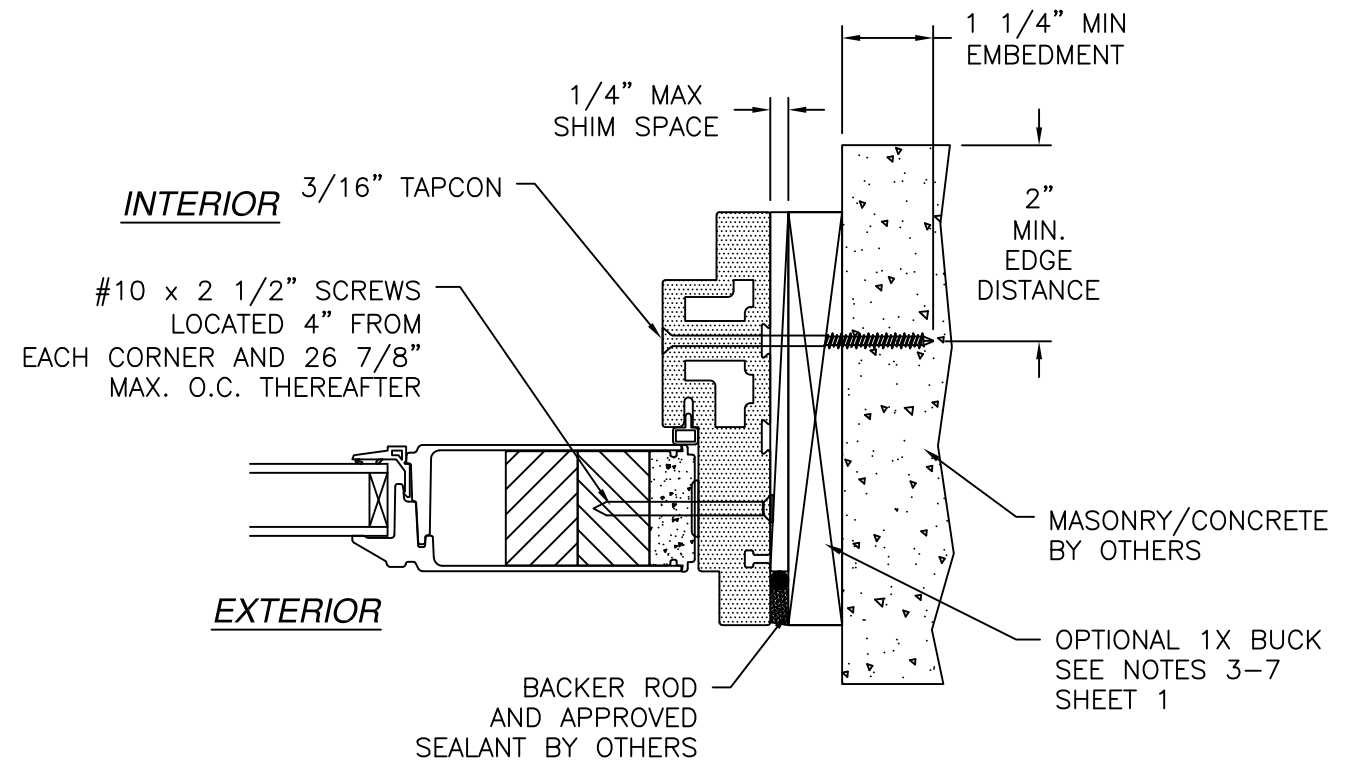
MASONRY/CONCRETE  
BY OTHERS

1 1/4" MIN.  
EMBEDMENT

2" MIN  
EDGE DISTANCE

**SIDELITE VERTICAL CROSS SECTION**  
MASONRY/CONCRETE INSTALLATION

| REVISIONS |                               |            |          |
|-----------|-------------------------------|------------|----------|
| REV       | DESCRIPTION                   | DATE       | APPROVED |
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INTERIOR

#10 x 2 1/2" SCREWS  
LOCATED 4" FROM  
EACH CORNER AND 26 7/8"  
MAX. O.C. THEREAFTER

EXTERIOR

BACKER ROD  
AND APPROVED  
SEALANT BY OTHERS

MASONRY/CONCRETE  
BY OTHERS

OPTIONAL 1X BUCK  
SEE NOTES 3-7  
SHEET 1

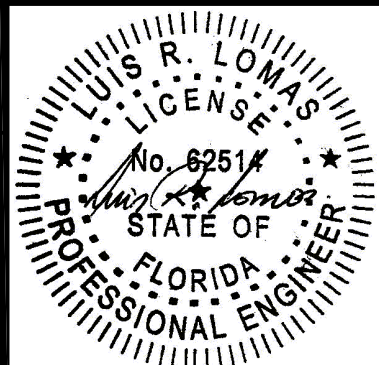
**SIDELITE HORIZONTAL CROSS SECTION**  
MASONRY/CONCRETE INSTALLATION

**NOTES:**

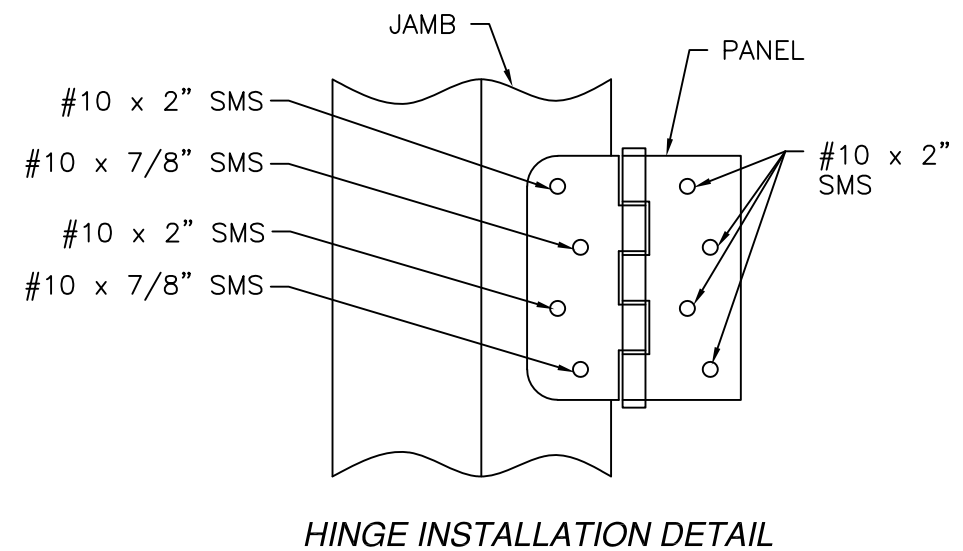
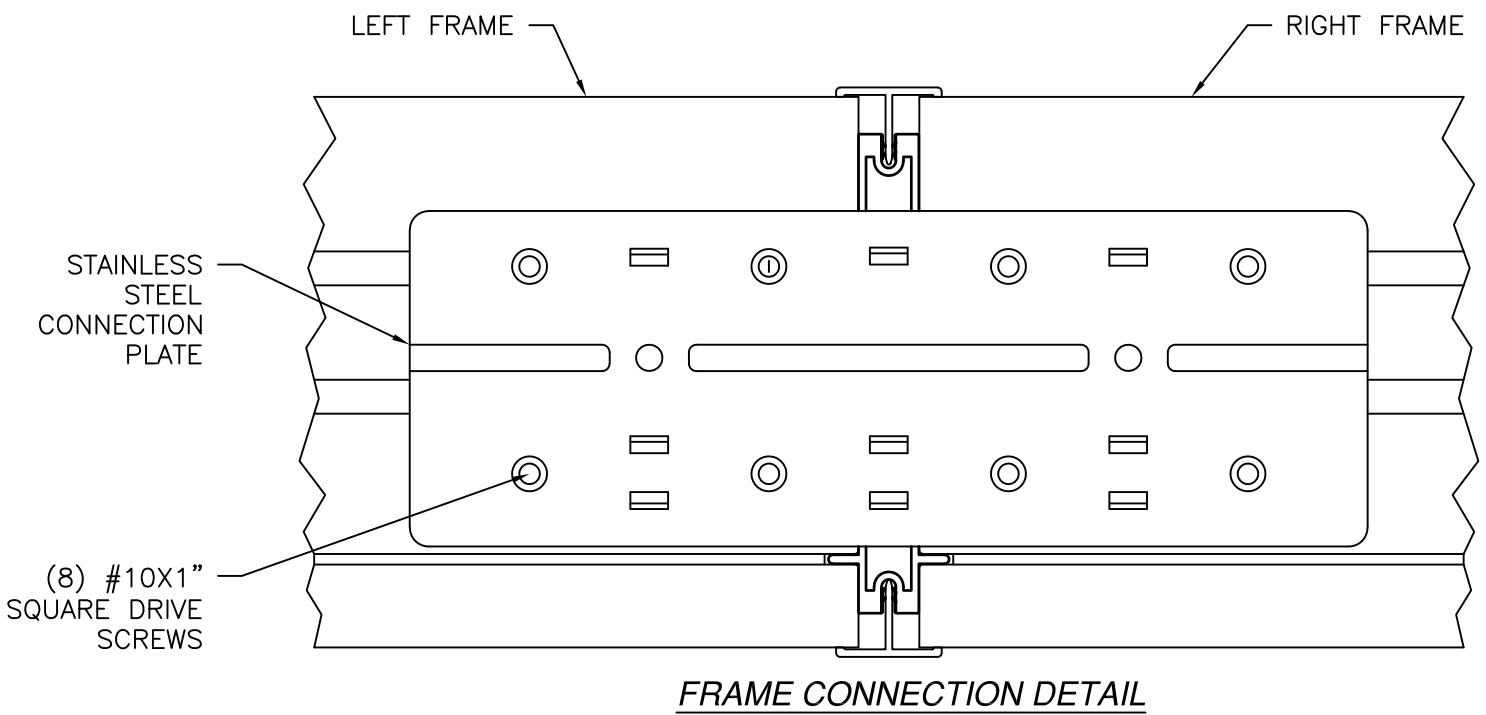
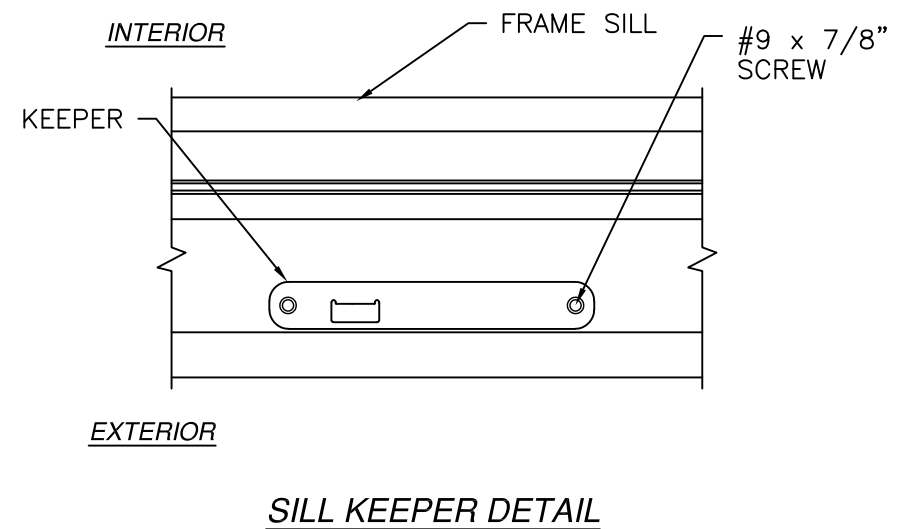
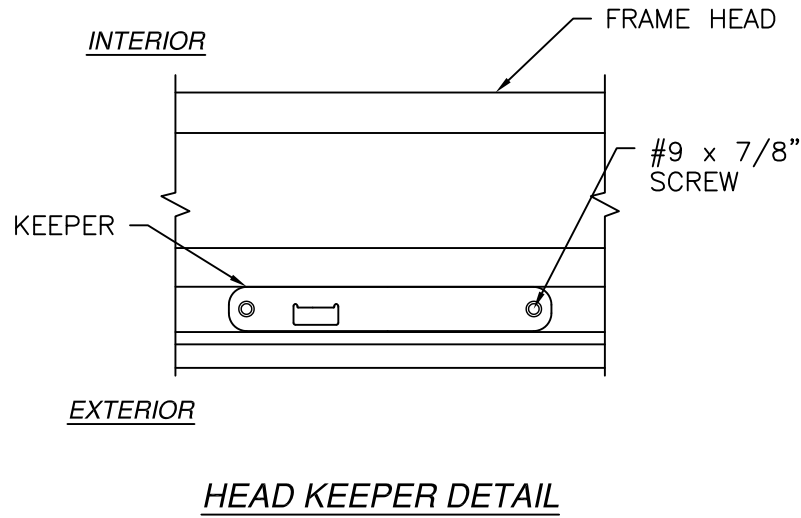
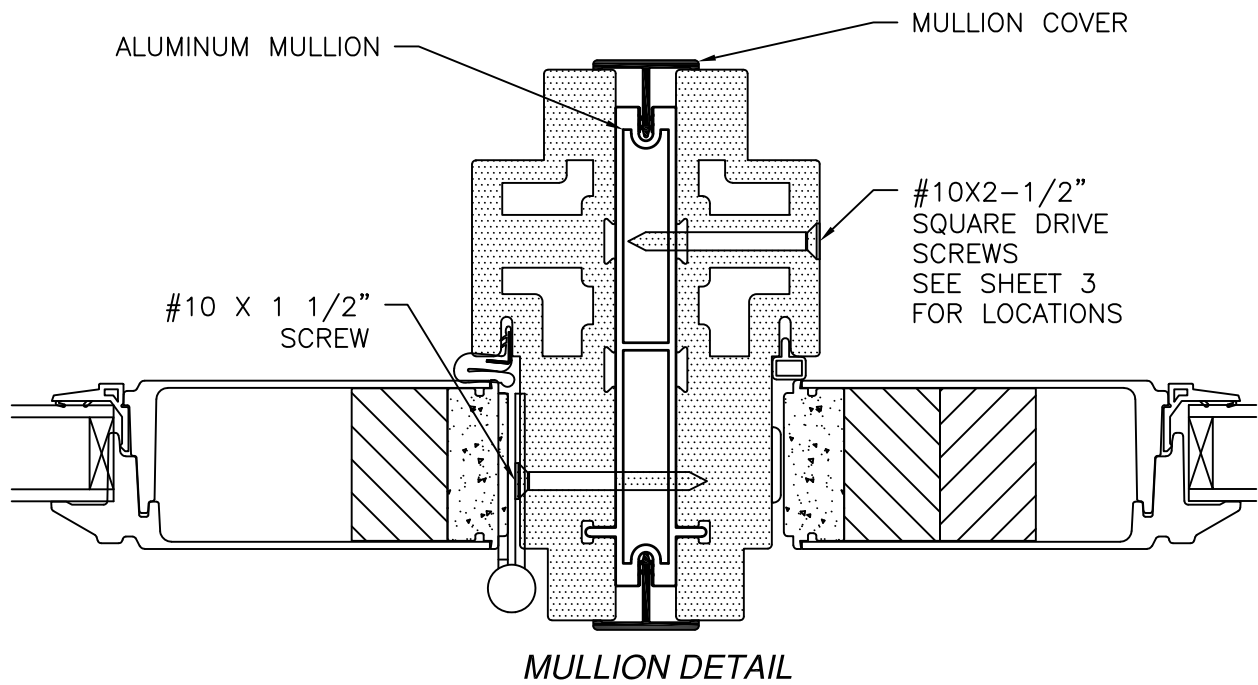
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 05/22/2025

|                                                                                                   |                            |                          |
|---------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| <b>NAN YA PLASTICS CORP. USA</b><br>8989 NORTH LOOP EAST<br>HOUSTON, TX 77029                     |                            |                          |
| OUT-SWING PATIO DOOR W/SIDELITES<br>FIBERGLASS GLAZED NON-IMPACT<br>SIDELITE INSTALLATION DETAILS |                            |                          |
| DRAWN:<br><b>A.R.</b>                                                                             | DWG NO.<br><b>08-03402</b> | REV<br><b>A</b>          |
| SCALE<br><b>NTS</b>                                                                               | DATE<br><b>04/01/19</b>    | SHEET<br><b>11 OF 14</b> |
| 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



| HARDWARE SCHEDULE |                                                |
|-------------------|------------------------------------------------|
| A.                | (3) 4" BUTT HINGE                              |
| B.                | 3 POINT LOCK SYSTEM (ACTIVE PANEL)             |
| C.                | RIGID PVC ASTRAGAL WITH ALUMINUM REINFORCEMENT |

| REVISIONS |                               |            |          |
|-----------|-------------------------------|------------|----------|
| REV       | DESCRIPTION                   | DATE       | APPROVED |
| A         | REVISE TO ADD GLAZING DETAILS | 05/13/2025 | R.L.     |

NAN YA PLASTICS CORP. USA

8989 NORTH LOOP EAST  
HOUSTON, TX 77029

OUT-SWING PATIO DOOR W/SIDELITES

FIBERGLASS GLAZED NON-IMPACT

INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03402

REV A

SCALE NTS

DATE 04/01/19

SHEET 12 OF 14

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 05/22/2025

LUIS R. LOMAS

LICENSE

No. 62514

STATE OF

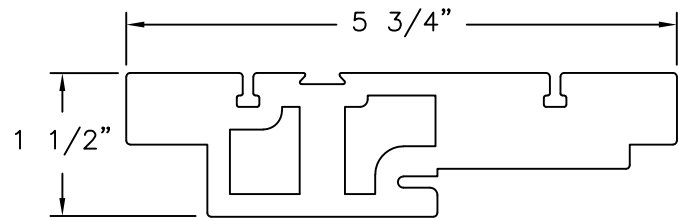
FLORIDA

PROFESSIONAL ENGINEER

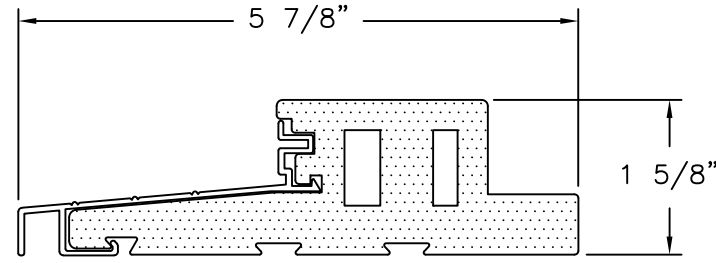
Luis R. Lomas P.E.

FL No.: 62514

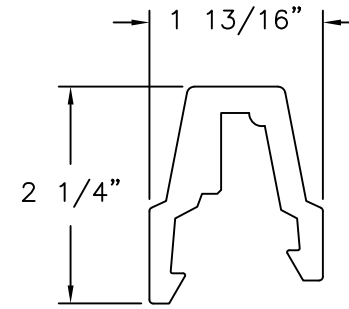




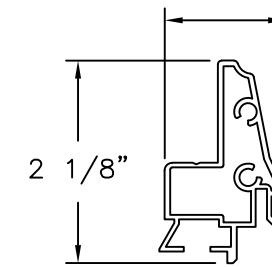
**HEAD FRAME & JAMB**  
FOAM PVC CO-EX



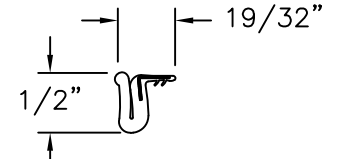
**OUTSWING DOOR SILL DETAIL**



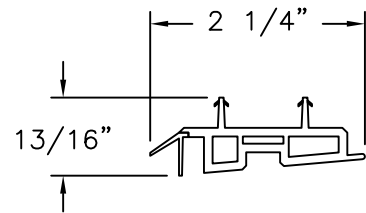
**T-ASTRAGAL (B)**  
FOAM PVC



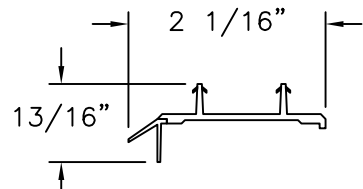
**REINFORCEMENT (B)**  
ALUMINUM



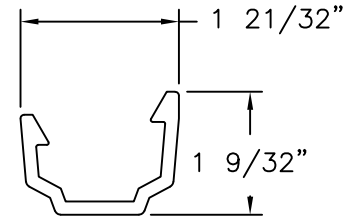
**Q-LON WEATHER STRIP**  
FOAM PU, PE FILM



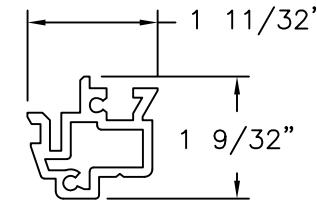
**DOOR BOTTOM-A**  
FOAM & RIGID PVC



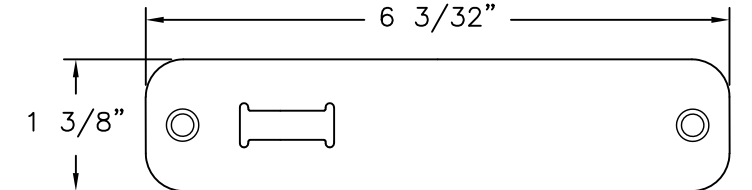
**DOOR BOTTOM-B**  
RIGID PVC CO-EX



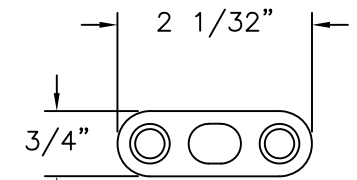
**T-ASTRAGAL (A)**  
RIGID PVC



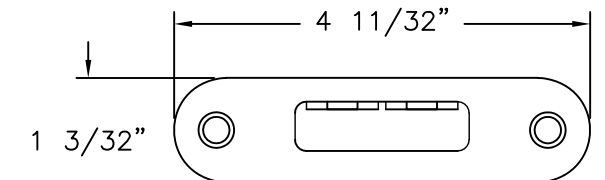
**REINFORCEMENT (A)**  
ALUMINUM



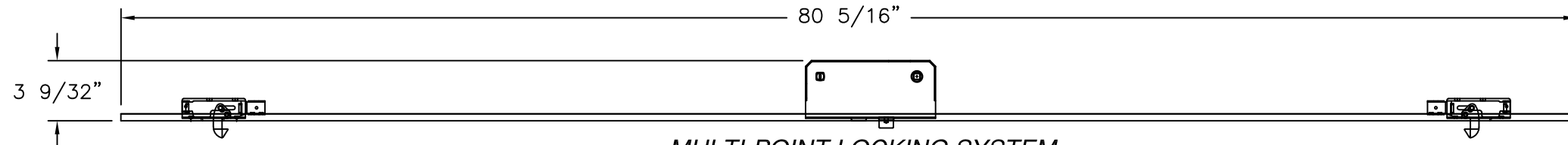
**TOP/BOTTOM BAR KEEPER**  
STAINLESS STEEL BY JAM YUAN ENTERPRISES CO., LTD.



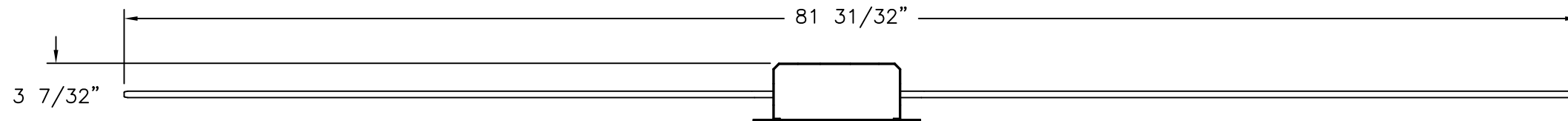
**DRIVE BAR PLATE**  
STAINLESS STEEL  
BY JAM YUAN ENTERPRISES CO., LTD.



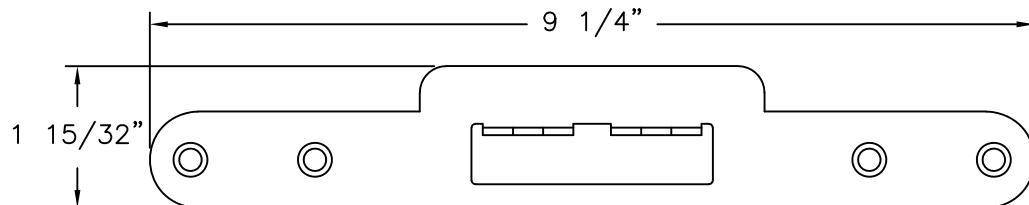
**HOOK KEEPER**  
STAINLESS STEEL  
BY JAM YUAN ENTERPRISES CO., LTD.



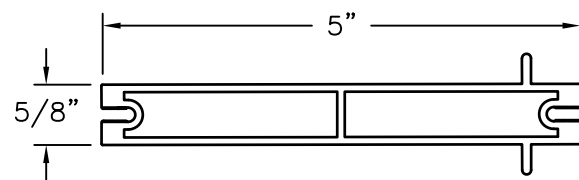
**MULTI-POINT LOCKING SYSTEM**  
STAINLESS STEEL BY JAM YUAN ENTERPRISES CO., LTD.



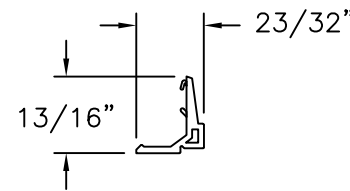
**TOP/BOTTOM BAR SYSTEM**  
STAINLESS STEEL BY JAM YUAN ENTERPRISES CO., LTD.



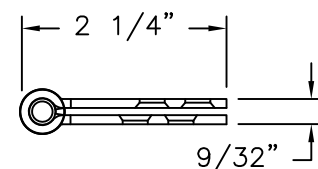
**SLAB MULTI-POINT LOCK KEEER**  
STAINLESS STEEL BY JAM YUAN ENTERPRISES CO., LTD.



**ALUMINUM MULLION**  
ALUMINUM



**GLAZING BEAD**  
PVC



**4" X 4" DOOR HINGE**  
STEEL

| REVISIONS |                               |            |          |
|-----------|-------------------------------|------------|----------|
| REV       | DESCRIPTION                   | DATE       | APPROVED |
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**NAN YA PLASTICS CORP. USA**  
8989 NORTH LOOP EAST  
HOUSTON, TX 77029

OUT-SWING PATIO DOOR W/SIDELITES  
FIBERGLASS GLAZED NON-IMPACT  
COMPONENTS

DRAWN:  
**A.R.**

DWG NO.  
**08-03402**

REV  
**A**

SCALE  
**NTS**

DATE  
**04/01/19**

SHEET  
**14 OF 14**

L. ROBERTO LOMAS P.E.  
208 7th Ave, INDIALANTIC, FL 32903  
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SIGNED: 05/22/2025

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