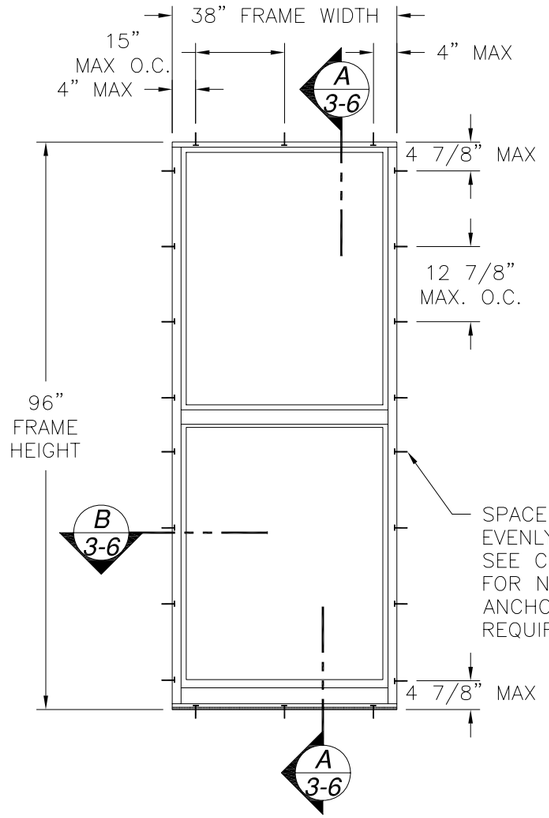



*4000 ALUMINUM IMPACT SINGLE HUNGWINDOW*

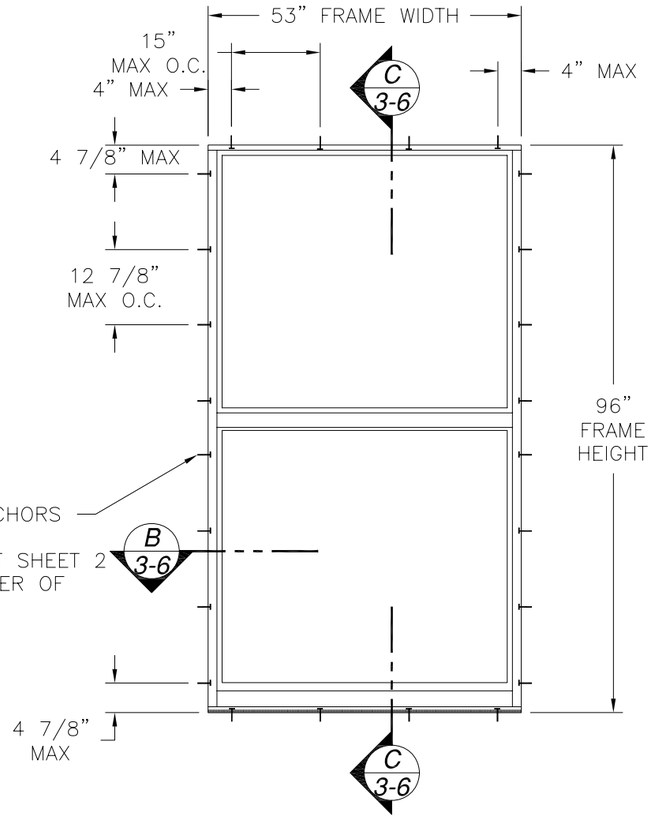
*EXTERIOR VIEW*

| *DESIGN PRESSURE RATING* | *IMPACT RATING* |
|---|---|
| *±110.0PSF* | *LARGE MISSILE IMPACT* |

*MISSILE LEVEL D, WIND ZONE 4 (WITH GLASS A AND B)*

| *DESIGN PRESSURE RATING* | *IMPACT RATING* |
|---|---|
| *±110.0PSF* | *SMALL MISSILE IMPACT* |

*MISSILE LEVEL A, WIND ZONE 4 (WITH GLASS C AND D)*




*4000 ALUMINUM IMPACT SINGLE HUNGWINDOW*

*EXTERIOR VIEW*

| *DESIGN PRESSURE RATING* | *IMPACT RATING* |
|---|---|
| *±110.0PSF* | *LARGE MISSILE IMPACT* |

*MISSILE LEVEL D, WIND ZONE 4 (WITH GLASS A AND B)*

| *DESIGN PRESSURE RATING* | *IMPACT RATING* |
|---|---|
| *±70.0PSF* | *LARGE MISSILE IMPACT* |

*MISSILE LEVEL D, WIND ZONE 4 (WITH GLASS E)*

| *DESIGN PRESSURE RATING* | *IMPACT RATING* |
|---|---|
| *±110.0PSF* | *SMALL MISSILE IMPACT* |

*MISSILE LEVEL A, WIND ZONE 4 (WITH GLASS C AND D)*

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

NOTES:

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IRC, 2006 IBC WITH STATE OF TEXAS MODIFICATIONS..
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. 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.
4) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5) FRAME MATERIAL: ALUMINUM 6063–T6.
6) UNITS MUST BE GLAZED PER ASTM E1300–04 SEE SHEET 2 FOR GLAZING OPTIONS.
7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9) FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" CONCRETE ANCHOR 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.
10) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11) FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12) ALL FASTENERS TO BE CORROSION RESISTANT.
13) 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

*SIGNED: 01/09/2012*

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| SHEET NO. | DESCRIPTION |
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| 1 – 2 | ELEVATION, ANCHORING AND NOTES |
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| SCALE NTS | DATE 01/04/12 | SHEET 1 OF 6 |

STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
TX No.: 101889

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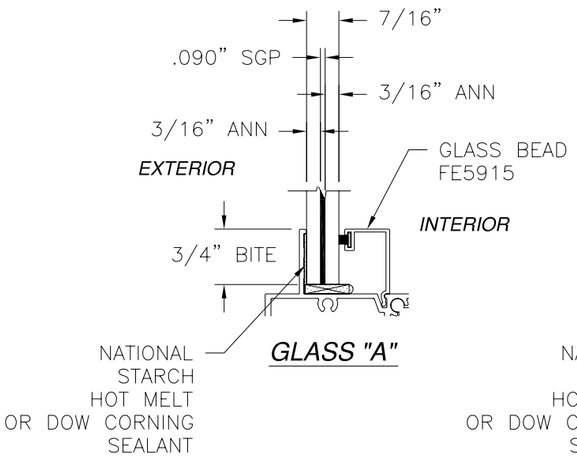
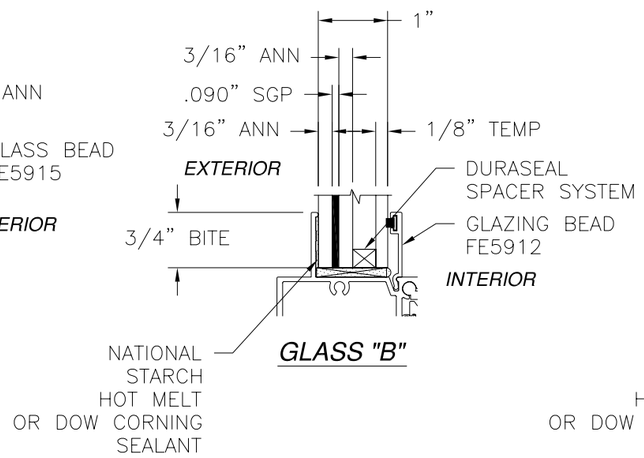



GLASS "A"

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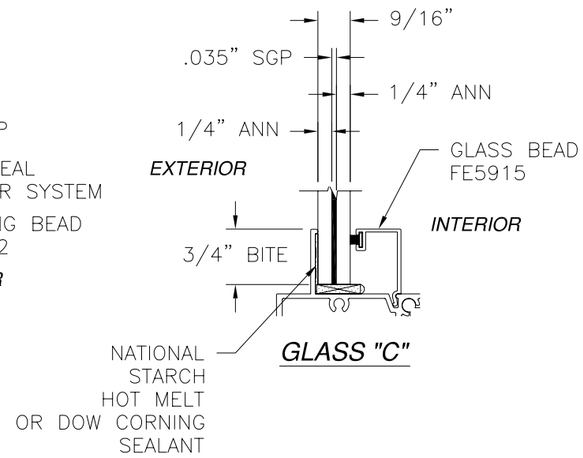


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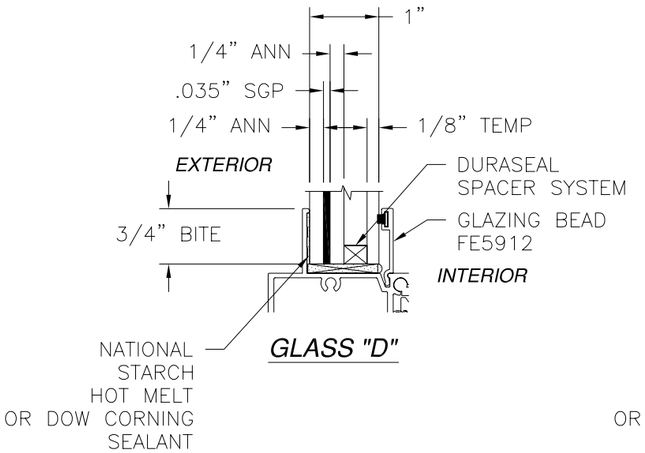


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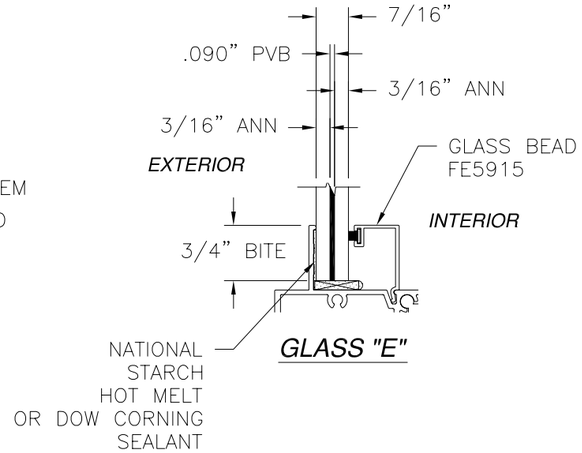


GLASS "E"

| NUMBER OF ANCHOR LOCATIONS REQUIRED | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frame Height (in) | Frame Width (in) | | | | | | | | | | | | | | | | |
| | 18.00 | | 24.00 | | 30.00 | | 36.00 | | 38.00 | | 42.00 | | 48.00 | | 53.00 | | |
| | H & S | Jamb | H & S | Jamb | H & S | Jamb | H & S | Jamb | H & S | Jamb | H & S | Jamb | H & S | Jamb | H & S | Jamb | |
| 24.00 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | |
| 30.00 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | |
| 36.00 | 2 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 42.00 | 2 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 48.00 | 2 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 54.00 | 2 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | |
| 60.00 | 2 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | |
| 66.00 | 2 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | |
| 72.00 | 2 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | |
| 78.00 | 2 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | |
| 84.00 | 2 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | |
| 90.00 | 2 | 8 | 3 | 8 | 3 | 8 | 3 | 8 | 3 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | |
| 96.00 | 2 | 8 | 3 | 8 | 3 | 8 | 3 | 8 | 3 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | |


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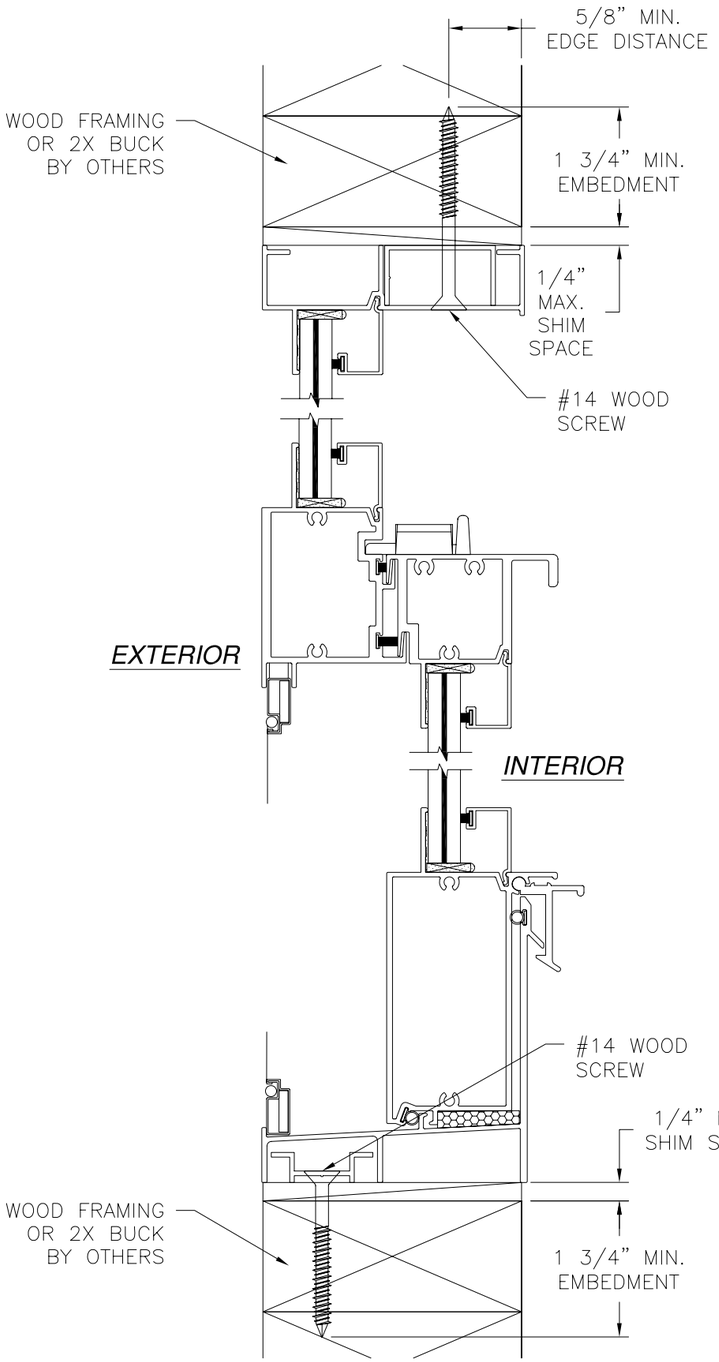
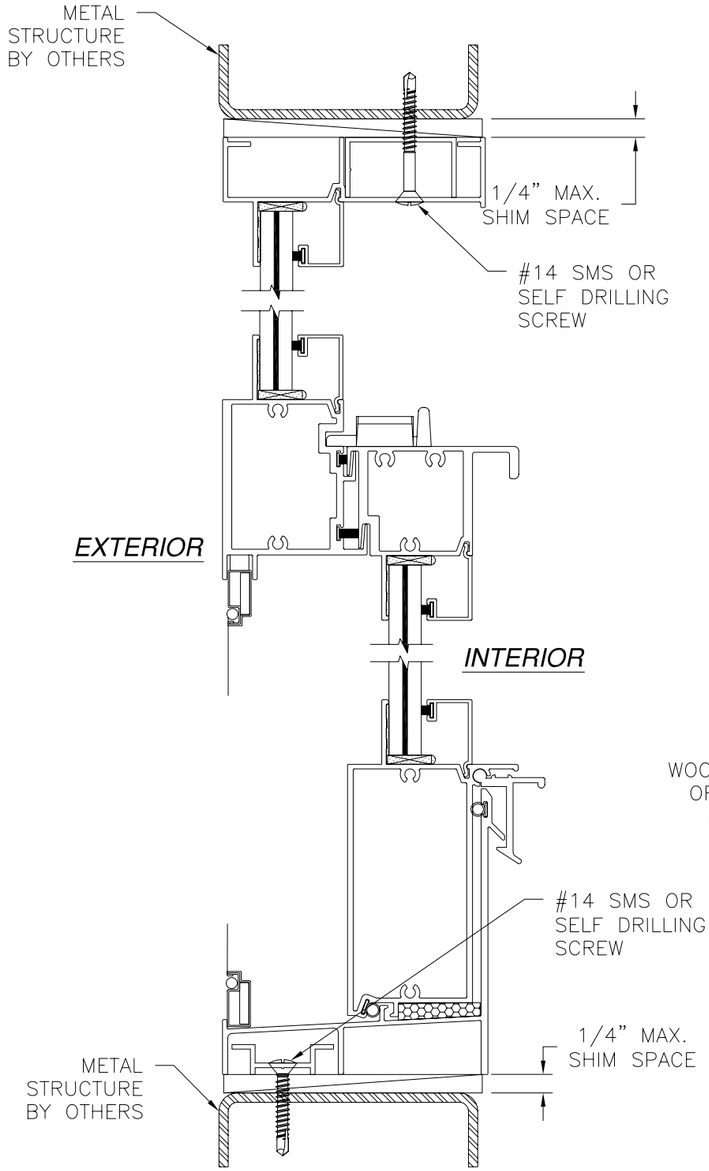
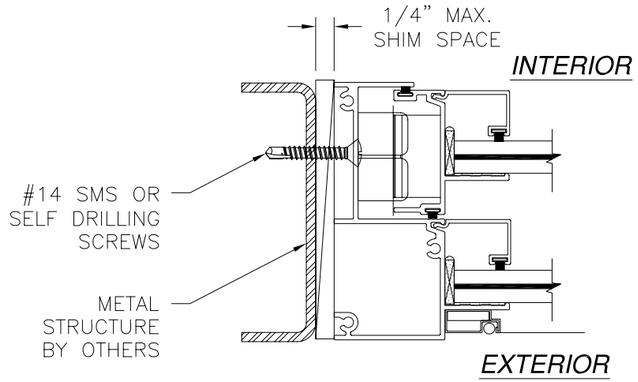


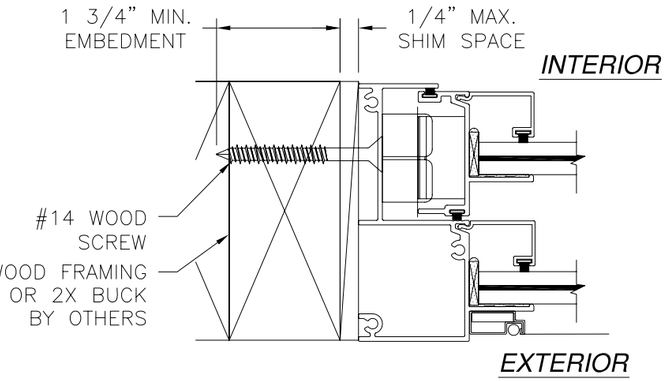

A/3 *VERTICAL CROSS SECTION*
*WOOD FRAMING OR 2X BUCK INSTALLATION*




A/3 *VERTICAL CROSS SECTION*
*METAL STRUCTURE INSTALLATION*




B/3 *JAMB INSTALLATION DETAIL*
*METAL STRUCTURE INSTALLATION*




B/3 *JAMB INSTALLATION DETAIL*
*WOOD FRAMING OR 2X BUCK INSTALLATION*

NOTE: - SEALANT AND BACKER ROD MATERIAL AND JOINT DESIGN BY OTHERS.
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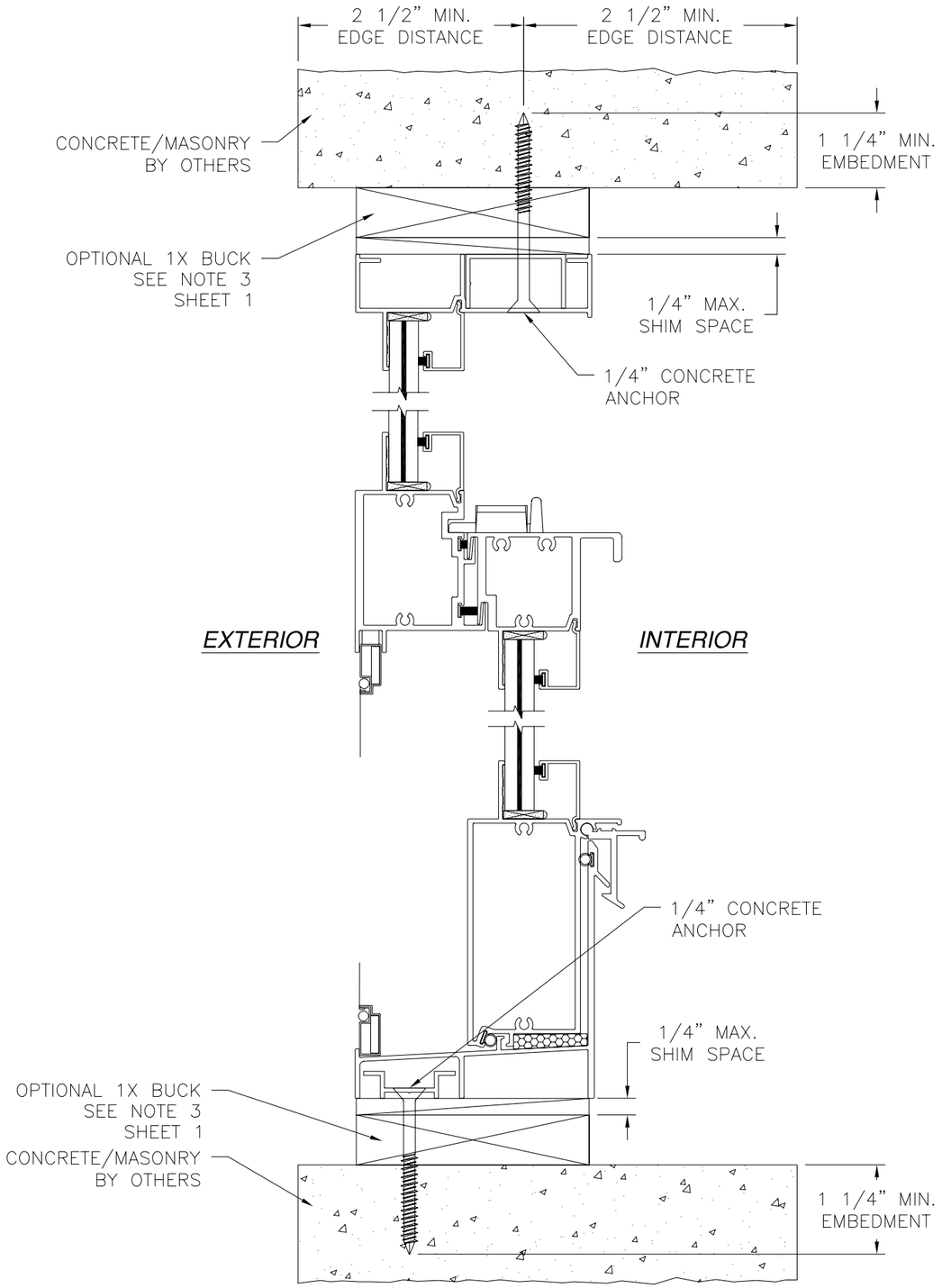
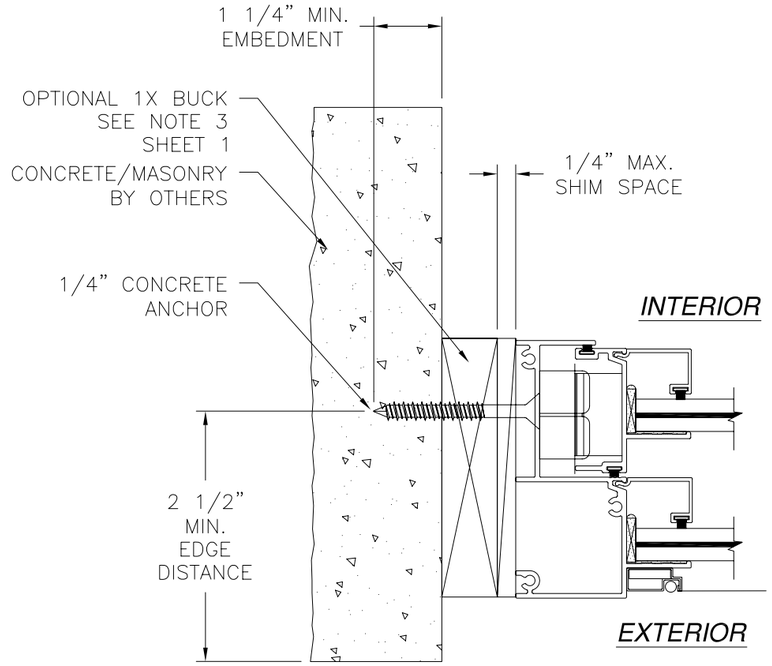



A/4 *VERTICAL CROSS SECTION*
*CONCRETE/MASONRY INSTALLATION*




B/4 *JAMB INSTALLATION DETAIL*
*CONCRETE/MASONRY INSTALLATION*

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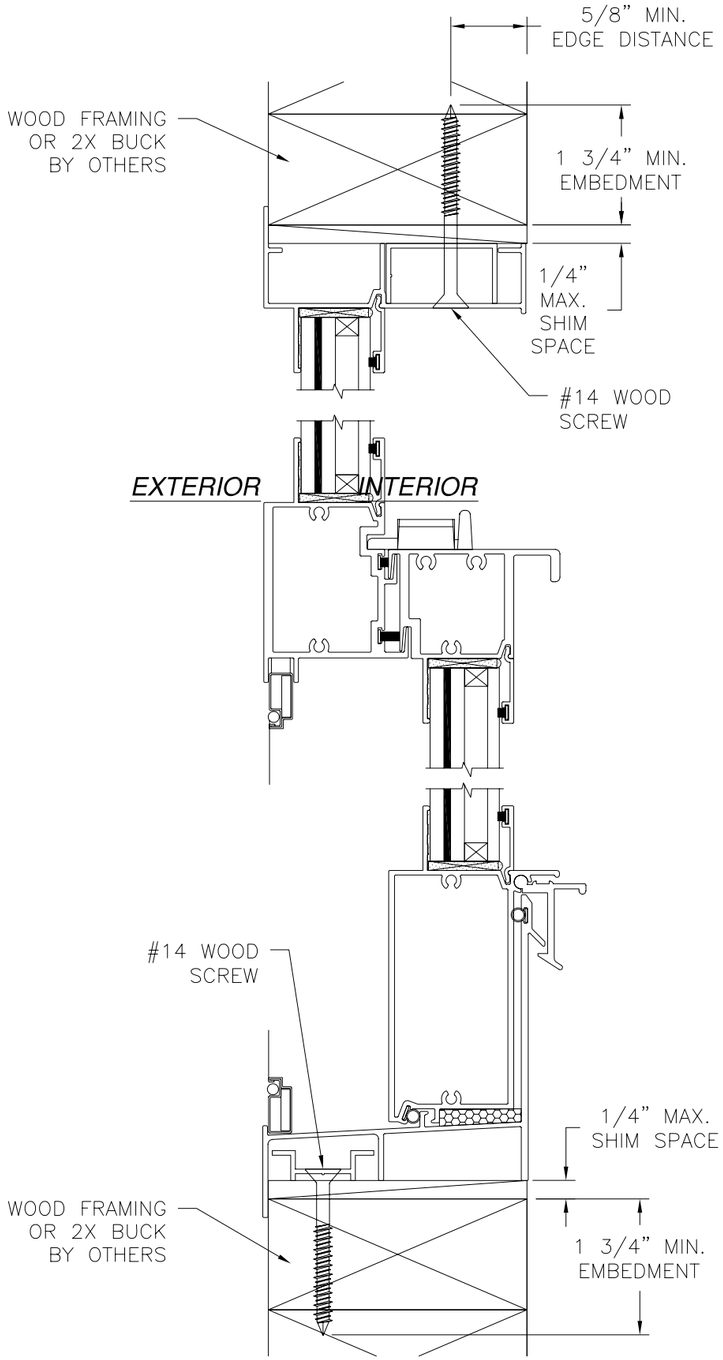
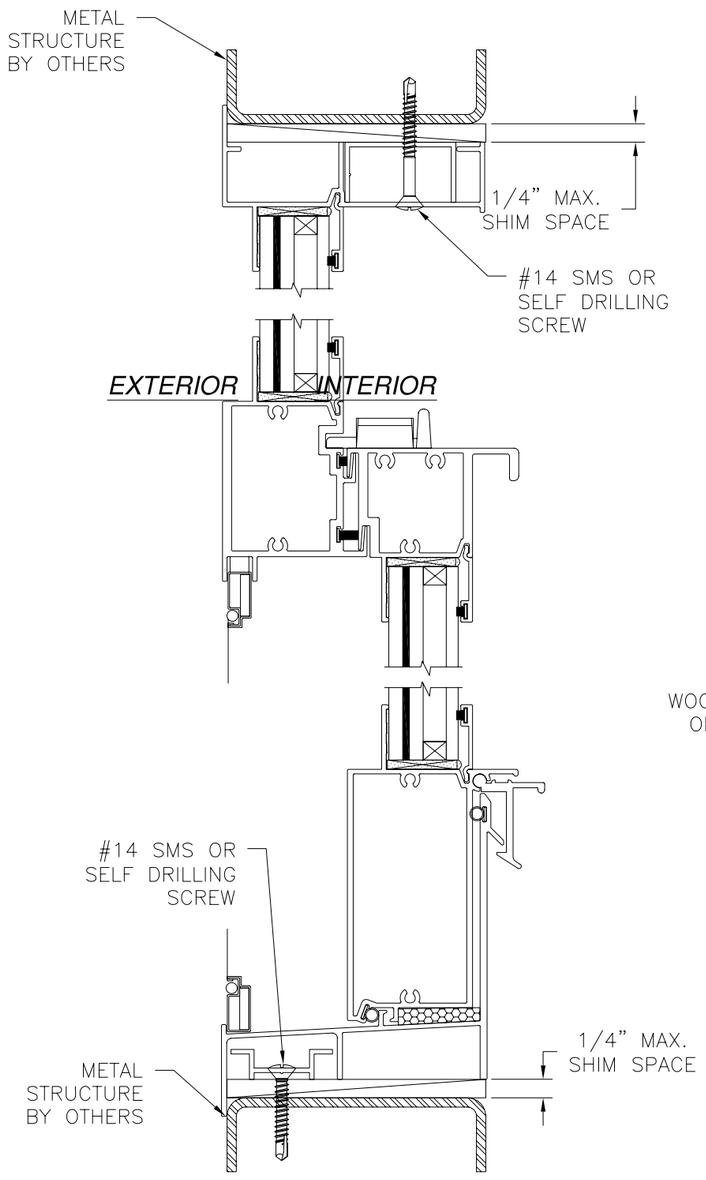



A/5 *VERTICAL CROSS SECTION*
*WOOD FRAMING OR 2X BUCK INSTALLATION*




A/5 *VERTICAL CROSS SECTION*
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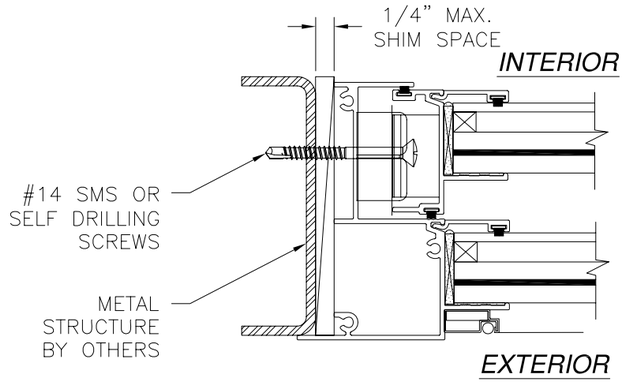


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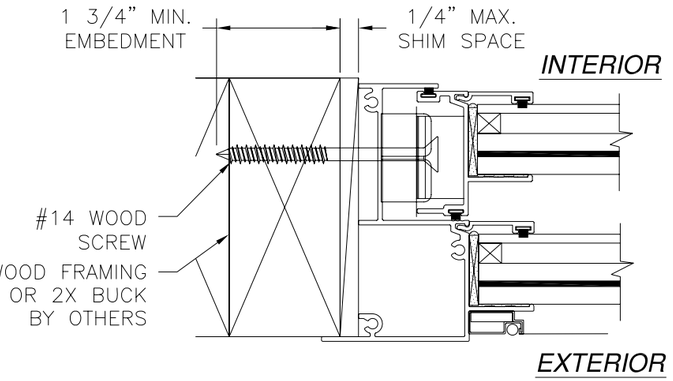
*METAL STRUCTURE INSTALLATION*




B/5 *JAMB INSTALLATION DETAIL*
*WOOD FRAMING OR 2X BUCK INSTALLATION*

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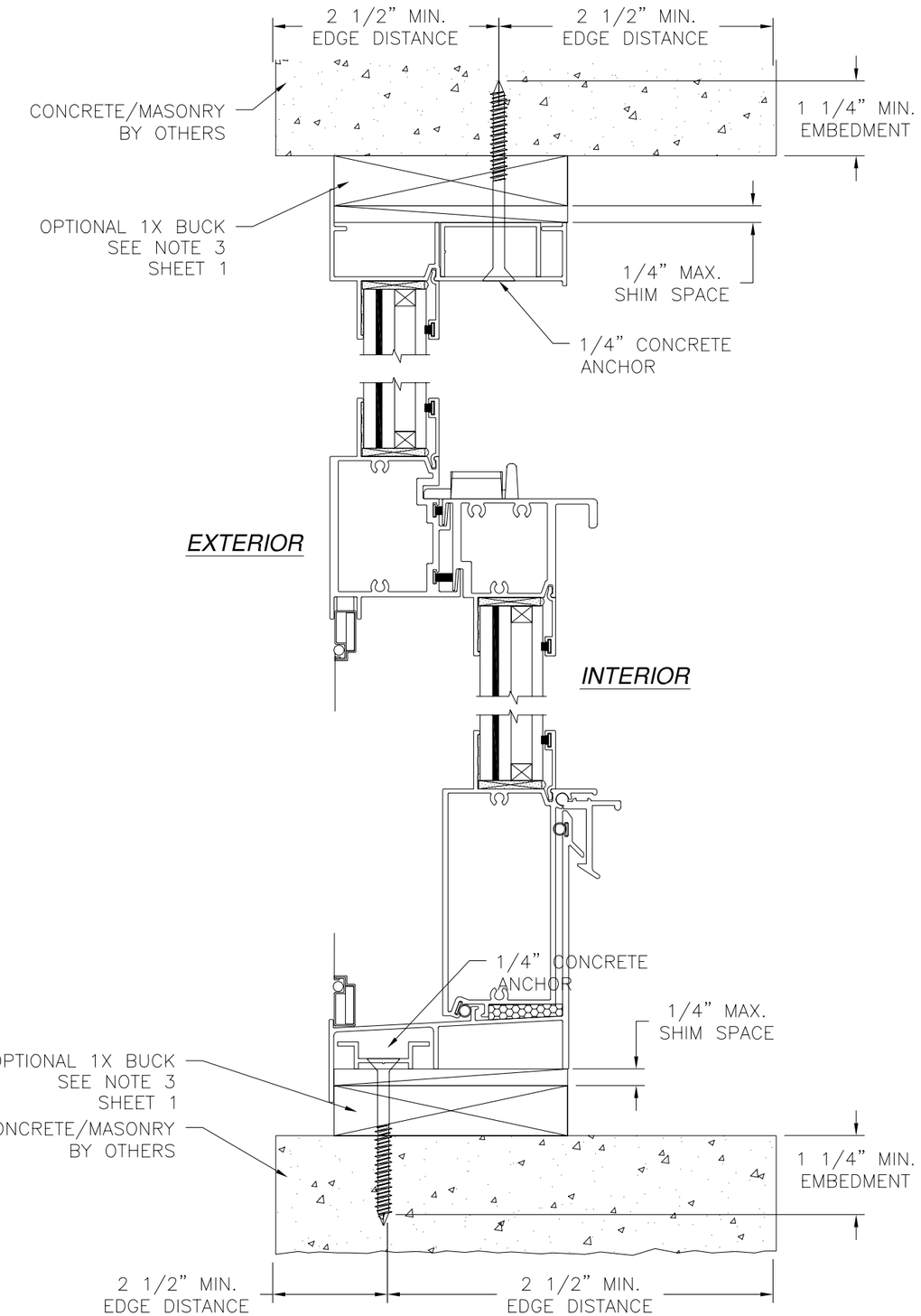
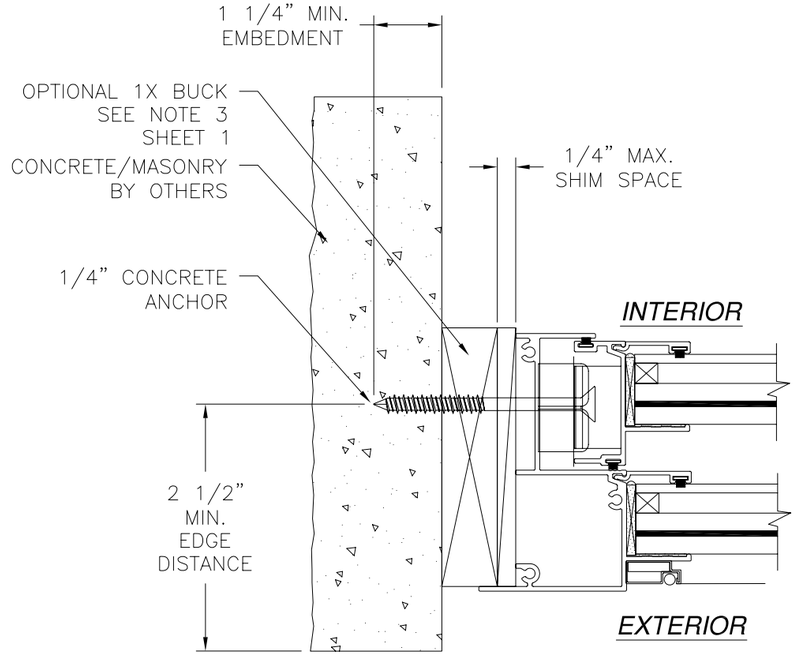



A 6 *VERTICAL CROSS SECTION*
*CONCRETE/MASONRY INSTALLATION*




B 6 *JAMB INSTALLATION DETAIL*
*CONCRETE/MASONRY INSTALLATION*

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