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NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AN THE 2006 INTERNATIONAL RESIDENTIAL CODE 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.
4. 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.
5. 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.
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 WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
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. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: ALUMINUM 6063–T6.
12. UNITS MUST BE GLAZED PER ASTM E1300–04 SEE SHEET 2 FOR GLAZING OPTIONS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS. WHEN INSTALLED AT 30.0 FT. OR HIGHER ABOVE GROUND LEVEL
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" ELCO CRETE–FLEX TAPCON 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 WOOD FRAMING OR 2X BUCK USE #14 CUT–THREAD WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS MINIMUM GRADE 5 WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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 16GA, 33KSI OR ALUMINUM 6063–T5 1/8" THICK MINIMUM

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SHEET NO.	DESCRIPTION
1	NOTES
2 – 3	ELEVATIONS
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11 – 12	COMPONENTS

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4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE – SMI
NOTES

DRAWN:	DWG NO.	REV
N.G.	08–02281	–

SCALE	DATE	SHEET
NTS	02/06/14	1 OF 12

STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889

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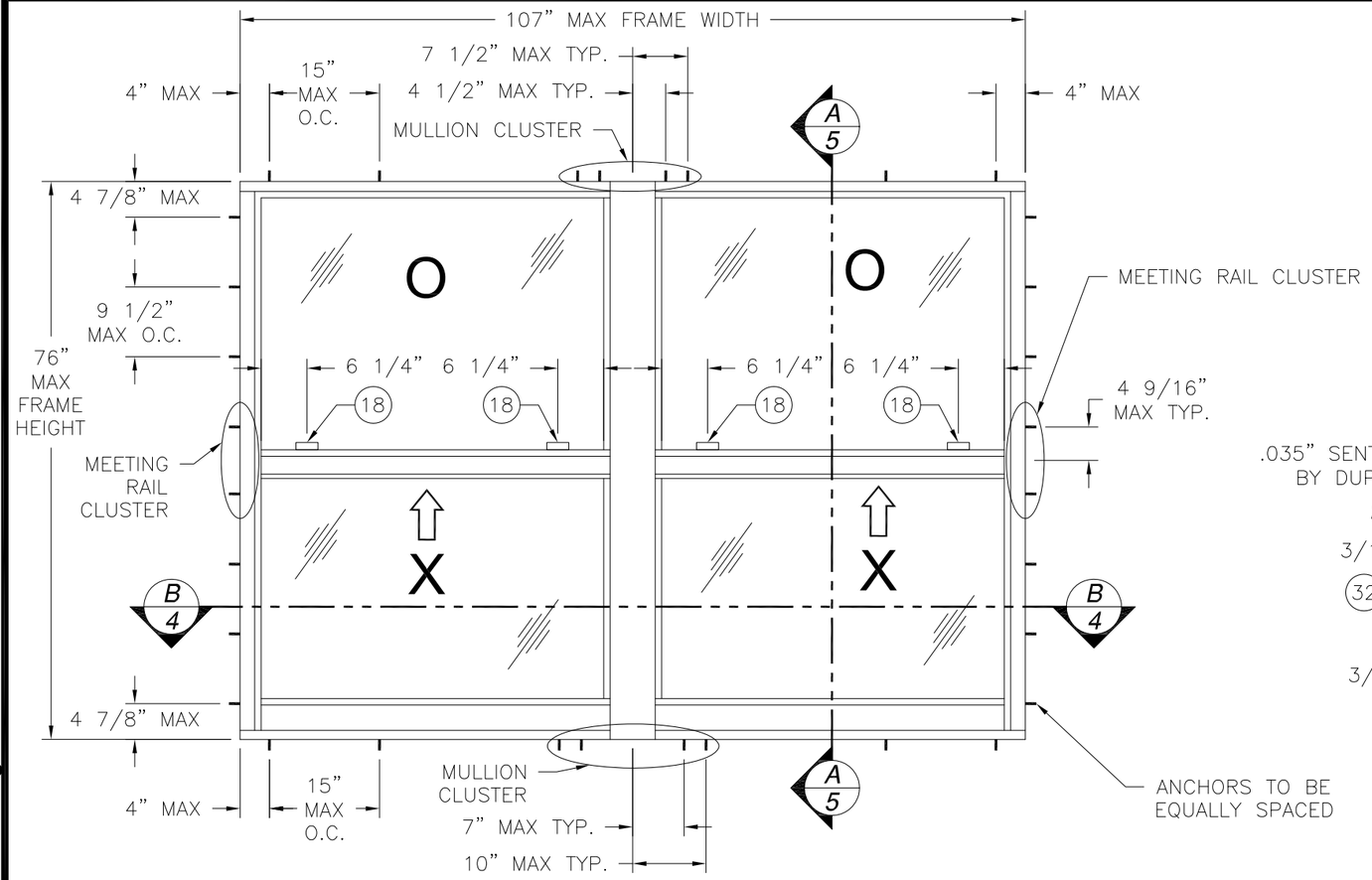

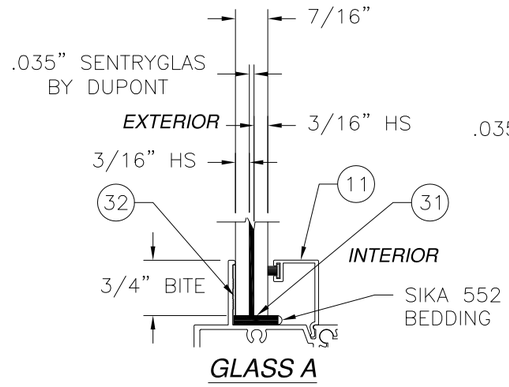

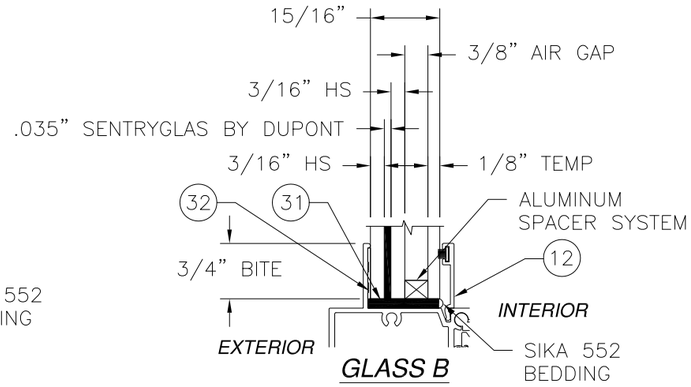

4000 ALUMINUM SINGLE HUNG TWIN WINDOW

EXTERIOR VIEW

DESIGN PRESSURE RATING	*IMPACT RATING*
+120.0/-150.0PSF	*SMALL MISSILE IMPACT*

MISSILE LEVEL D, WIND ZONE 4

NOTE:

1. *FLANGE UNIT DIMENSIONS : 108" X 77" TIP TO TIP*
2. *INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.*
3. *SILL RETAINER FULL LENGTH OF SILL*

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4000 ALUMINUM SINGLE HUNG WINDOW SGP
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TWIN ELEVATION

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SCALE NTS	DATE 02/06/14	SHEET 2 OF 12

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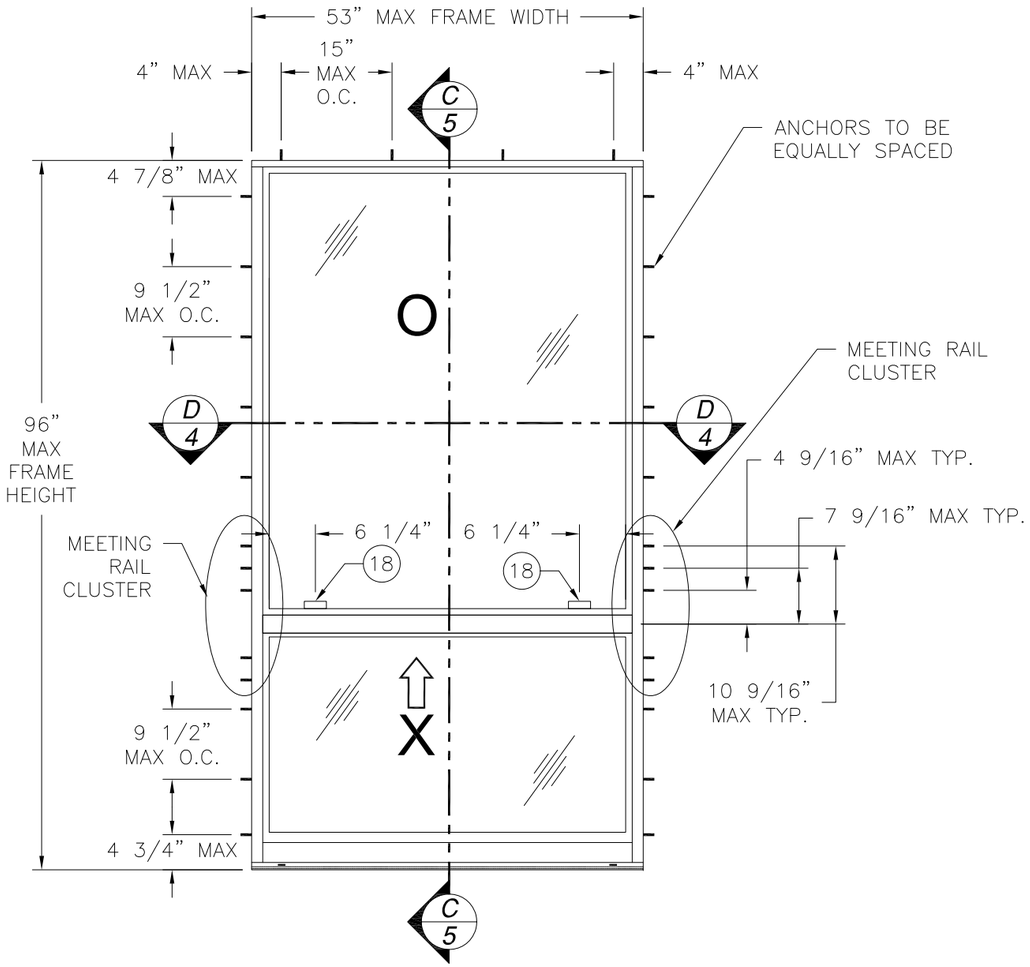
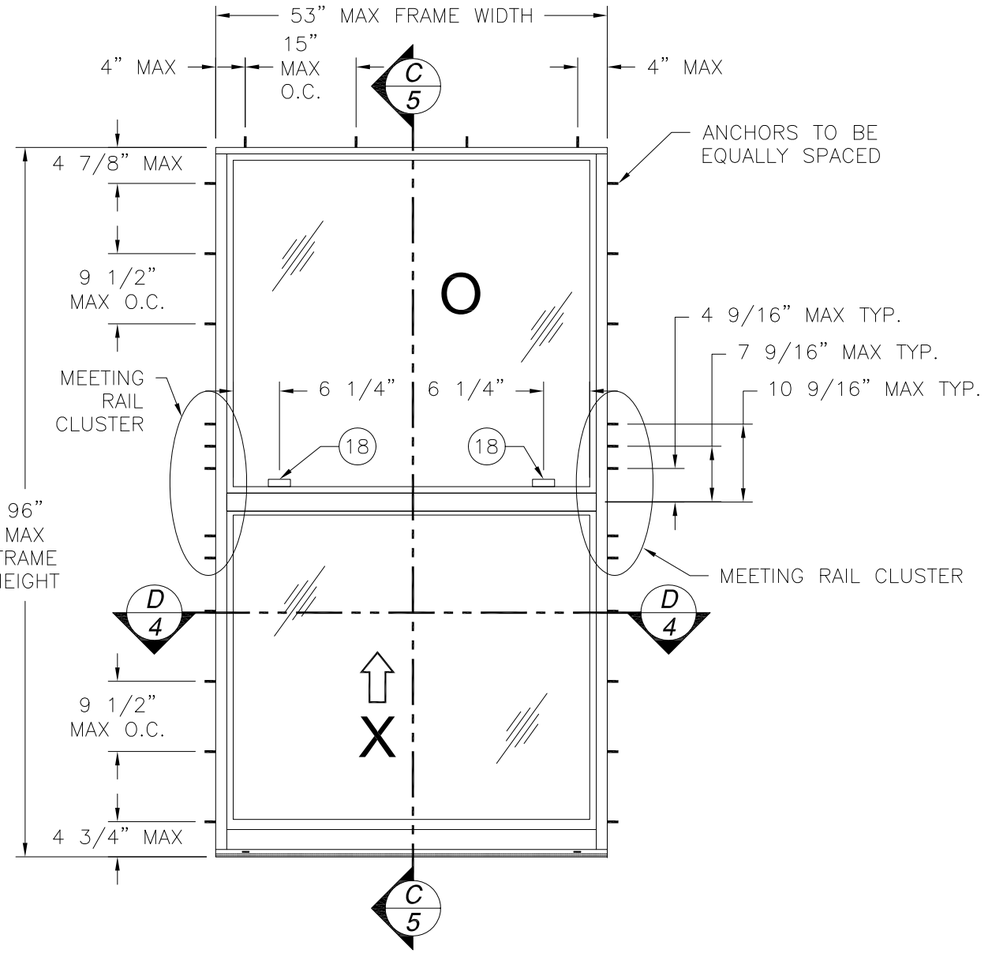


4000 ALUMINUM SINGLE HUNG ORIEL WINDOW
EXTERIOR VIEW



4000 ALUMINUM SINGLE HUNG WINDOW
EXTERIOR VIEW

DESIGN PRESSURE RATING	*IMPACT RATING*
+120.0/-150.0PSF	*SMALL MISSILE IMPACT*

MISSILE LEVEL D, WIND ZONE 4

NOTE:
1. *FLANGE UNIT DIMENSIONS : 54" X 97" TIP TO TIP*
2. *INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.*
3. *NO FASTENERS IN SILL, AT SINGLE UNITS ONLY.*

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PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	FS-06612	FRAME HEAD EQUAL LEG	KEYMARK	ALUMINUM 6063-T6
2	FS-06613	FRAME SILL EQUAL LEG	KEYMARK	ALUMINUM 6063-T6
3	FS-06614	FRAME JAMB EQUAL LEG	KEYMARK	ALUMINUM 6063-T6
4	FS-06661	FRAME HEAD FLANGE	KEYMARK	ALUMINUM 6063-T6
5	FS-06662	FRAME SILL FLANGE	KEYMARK	ALUMINUM 6063-T6
6	FS-06663	FRAME JAMB FLANGE	KEYMARK	ALUMINUM 6063-T6
7	FH-06615	FIXED MEETING RAIL	KEYMARK	ALUMINUM 6063-T6
8	FH-06616	MEETING RAIL	KEYMARK	ALUMINUM 6063-T6
9	FH-06617	LIFT RAIL	KEYMARK	ALUMINUM 6063-T6
10	FS-06618	SASH JAMB	KEYMARK	ALUMINUM 6063-T6
11	FS-06667	7/16" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
12	FS-06619	1" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
13	FH-06668	VERTICAL IMPOST	KEYMARK	ALUMINUM 6063-T6
14	FS-04501	HEAD RECESS COVER	KEYMARK	ALUMINUM 6063-T6
15	FE-5031	SILL SNAP LOCK	KEYMARK	ALUMINUM 6063-T6
16	FS-06671	HEAD FILLER	KEYMARK	ALUMINUM 6063-T6
17	FS-06664	SILL RETAINER	KEYMARK	ALUMINUM 6063-T6
18	F5-07327	SASH LOCK	KEYMARK	ALUMINUM 6063-T6
19		SEE NOTE THIS PAGE		
20	S4000-XX-150	SCREEN HEAD, JAMB AND SILL		ALUMINUM 6063-T6
21	S10010-BL-2200R	SCREEN SPLINE	TEAM PLASTICS	VINYL
22	SBV-XX-0600Z	SCREEN CLOTH	PHIFER	FIBERGLASS
23	54080-ML-FB11	SCREEN CORNER KEY		ALUMINUM 6063-T6
24	122003	.187X.350 FINSEAL	ULTRAFAB	
25	W4000-BL-20218	.187X.300 WEATHERSTRIP	FRANK LOWE	PROLON
26	W4000-BL-SCE42	1.300X1.750X.375 CLOSED CELL PAD	TEAM PLASTICS	FOAM
27	122001	.187X.220 FINSEAL	ULTRAFAB	
28	122002	.187X.240 FINSEAL	ULTRAFAB	
29	131096	#6X3/4" SWEEP ATTACHMENT SCREW		STAINLESS STEEL
30	131014	#8X1" RAIL ATTACHMENT SCREW		STAINLESS STEEL
31	121104	SETTING BLOCK	FRANK LOWE	85 DURO SHORE A
32	C4000-91-351AX	PURFECT GLAZE COMPOUND	HENKEL AMERICAS	
33	FS-07419	FRAME EQUAL LEG W/ CHANNEL	KEYMARK	ALUMINUM 6063-T6
34	FS-07418	FRAME FLANGE W/ CHANNEL	KEYMARK	ALUMINUM 6063-T6
35	FH-06670	SHEAR BLOCK	KEYMARK	ALUMINUM 6063-T6
36	FS-07492	REINFORCEMENT	KEYMARK	ALUMINUM 6005-T61
37	FS-07493	REINFORCEMENT	KEYMARK	ALUMINUM 6005-T61

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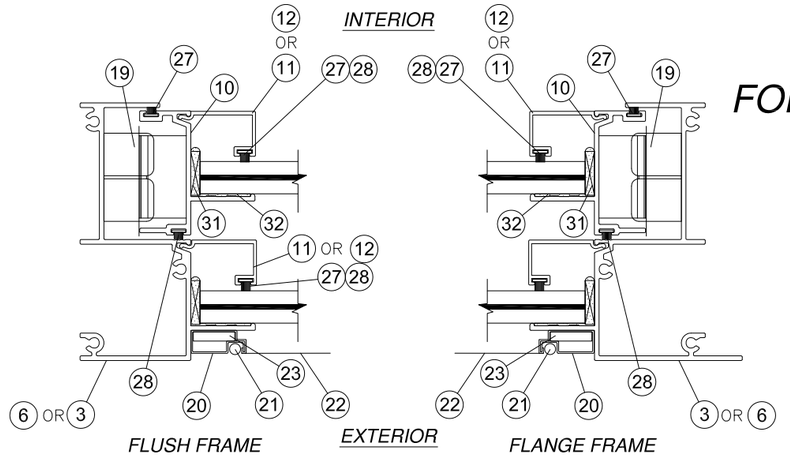
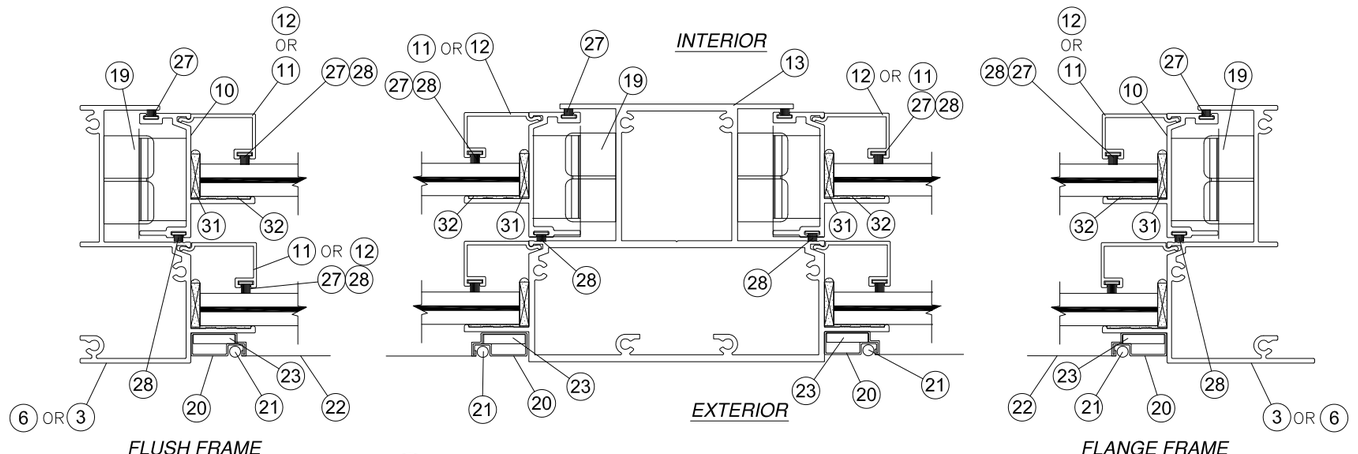


D/4 HORIZONTAL CROSS SECTION
SINGLE UNIT

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS
REFER TO SHEETS 6 - 10



B/4 HORIZONTAL POST CROSS SECTION
TWIN UNIT

NOTE:
UNITS MAY USE SPIRAL BALANCE OR BLOCK & TACKLE BALANCE.

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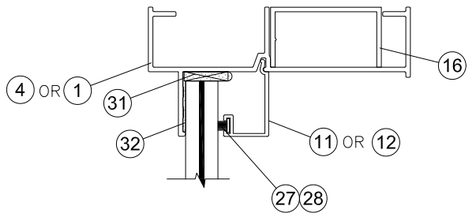
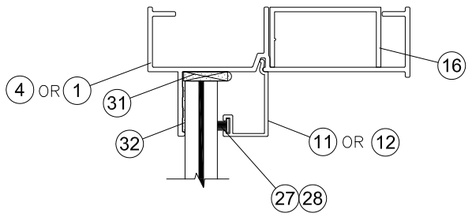
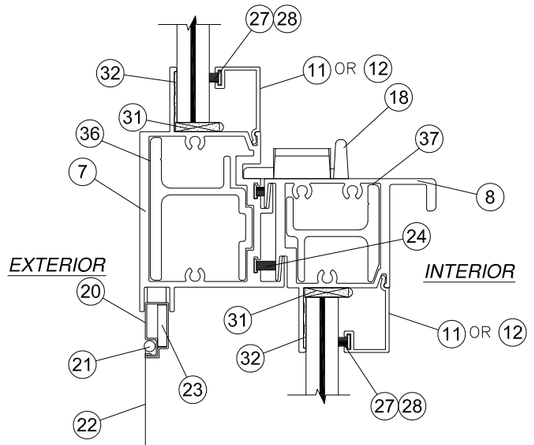
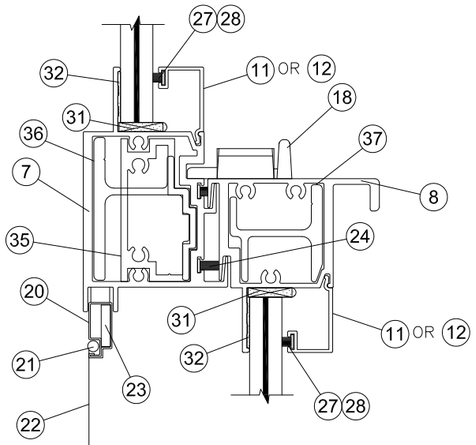
FOR INSTALLATION DETAILS REFER TO SHEETS 6-10

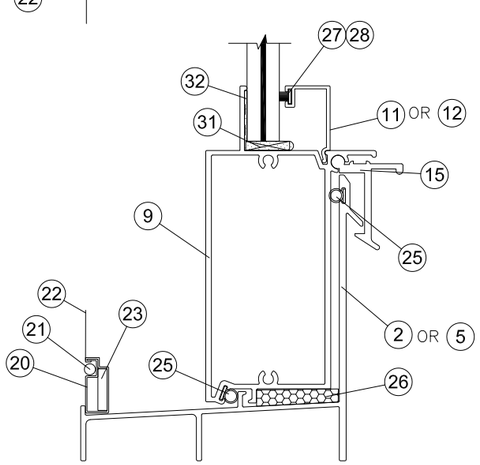




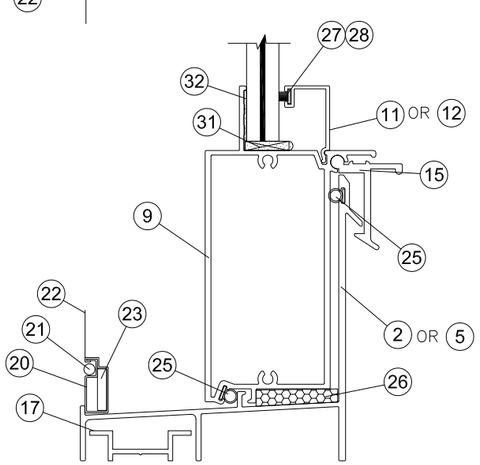


SEE DETAIL E SHEET 13

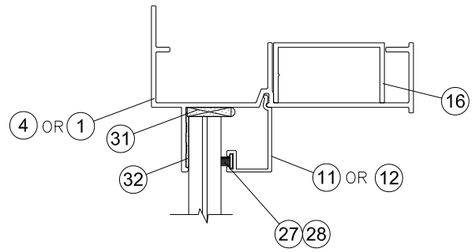


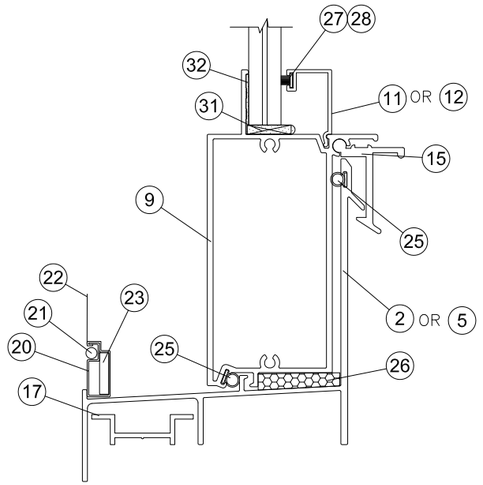


C/5 *VERTICAL CROSS SECTION*
SINGLE UNIT

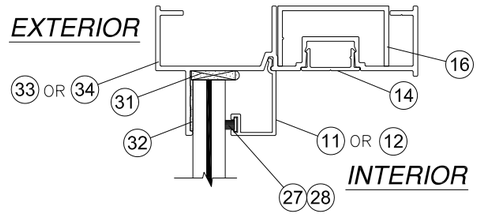


A/5 *VERTICAL CROSS SECTION*
TWIN UNIT

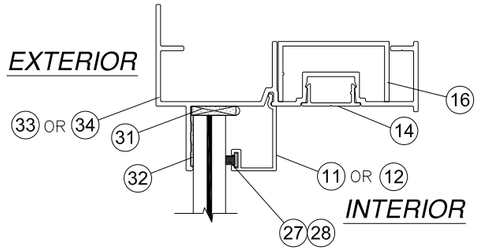




VERTICAL CROSS SECTION
FLANGE FRAME
MEETING RAIL NOT SHOWN



OPTIONAL HEAD FRAME



OPTIONAL HEAD FLANGE FRAME

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CROSS SECTIONS

DRAWN:	DWG NO.	REV
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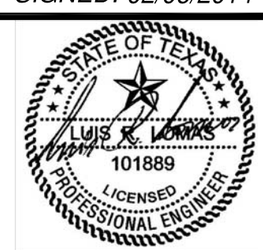
SCALE NTS	DATE 02/06/14	SHEET 5 OF 12



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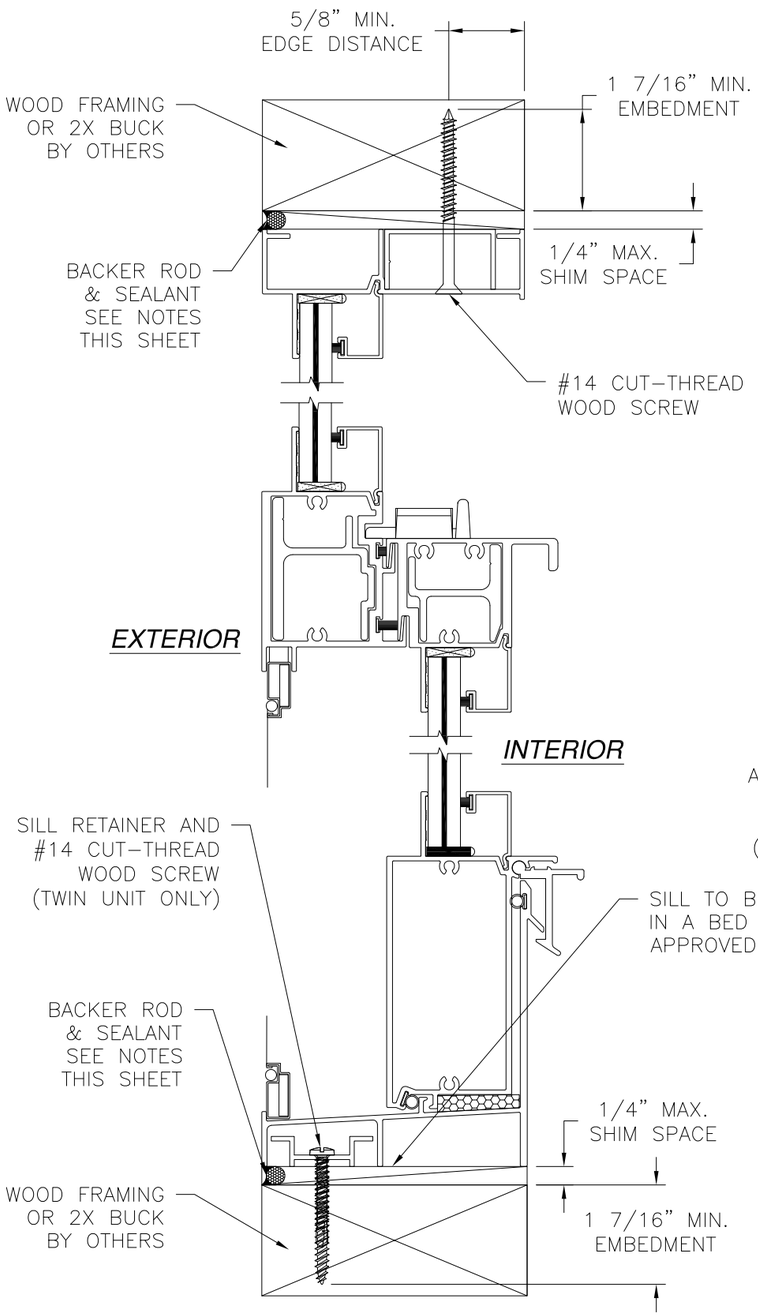
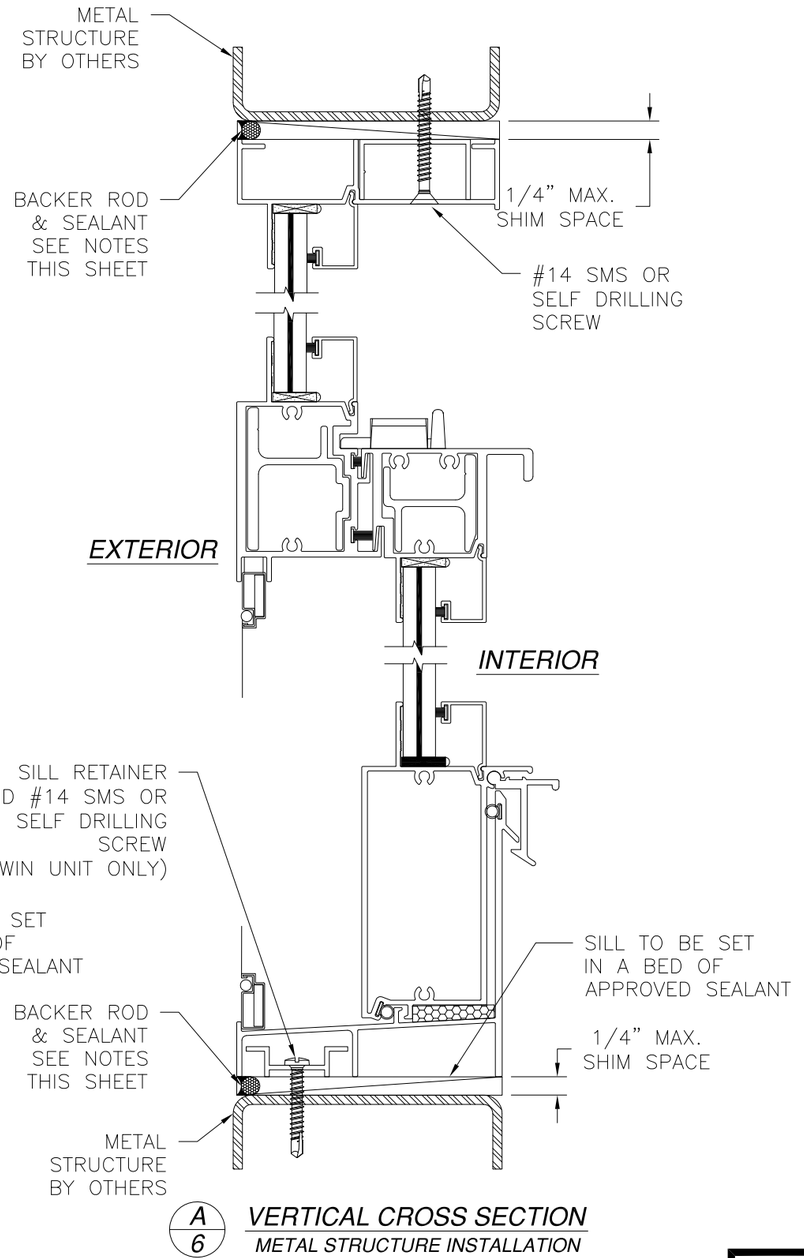
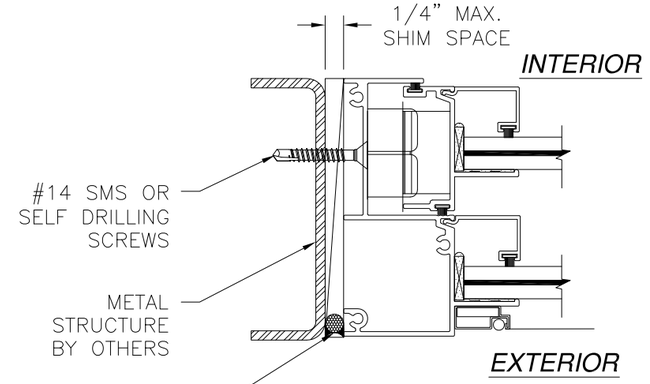


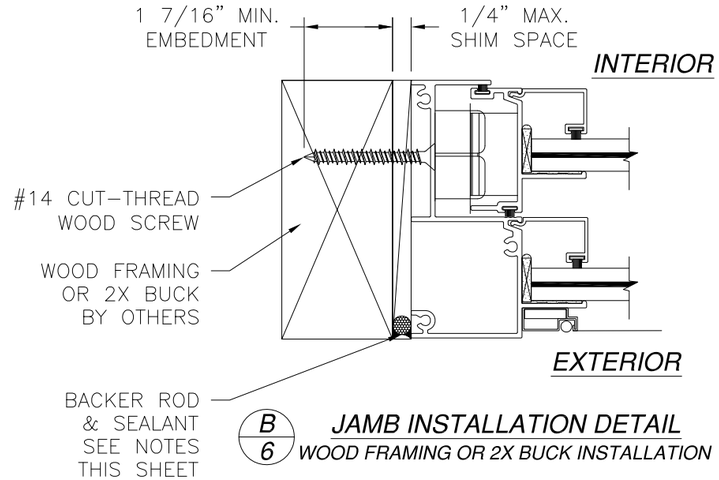
A/6 *VERTICAL CROSS SECTION*
WOOD FRAMING OR 2X BUCK INSTALLATION



A/6 *VERTICAL CROSS SECTION*
METAL STRUCTURE INSTALLATION



B/6 *JAMB INSTALLATION DETAIL*
METAL STRUCTURE INSTALLATION



B/6 *JAMB INSTALLATION DETAIL*
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTE:
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.*
3. *PERIMETER TO BE SEALED WITH APPROVED SILICONE.*

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FLUSH INSTALLATION DETAILS

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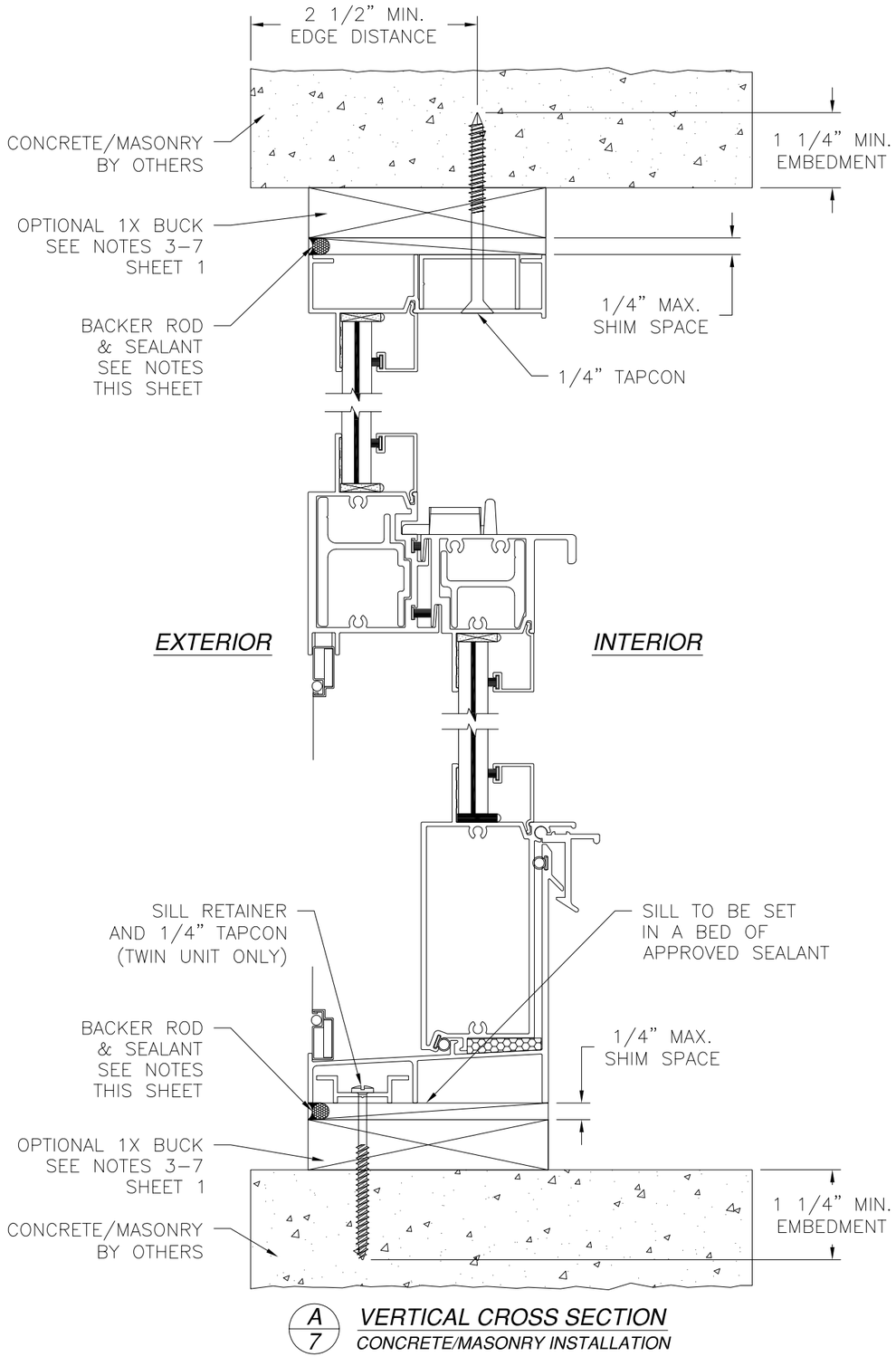
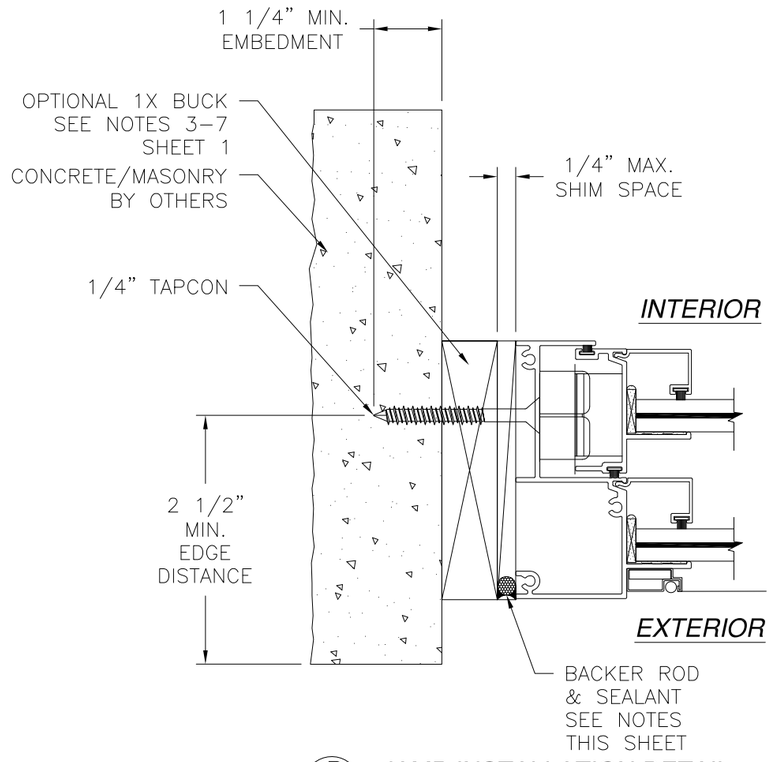


A/7 *VERTICAL CROSS SECTION*
CONCRETE/MASONRY INSTALLATION



B/7 *JAMB INSTALLATION DETAIL*
CONCRETE/MASONRY INSTALLATION

NOTE:
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.*
3. *PERIMETER TO BE SEALED WITH APPROVED SILICONE.*

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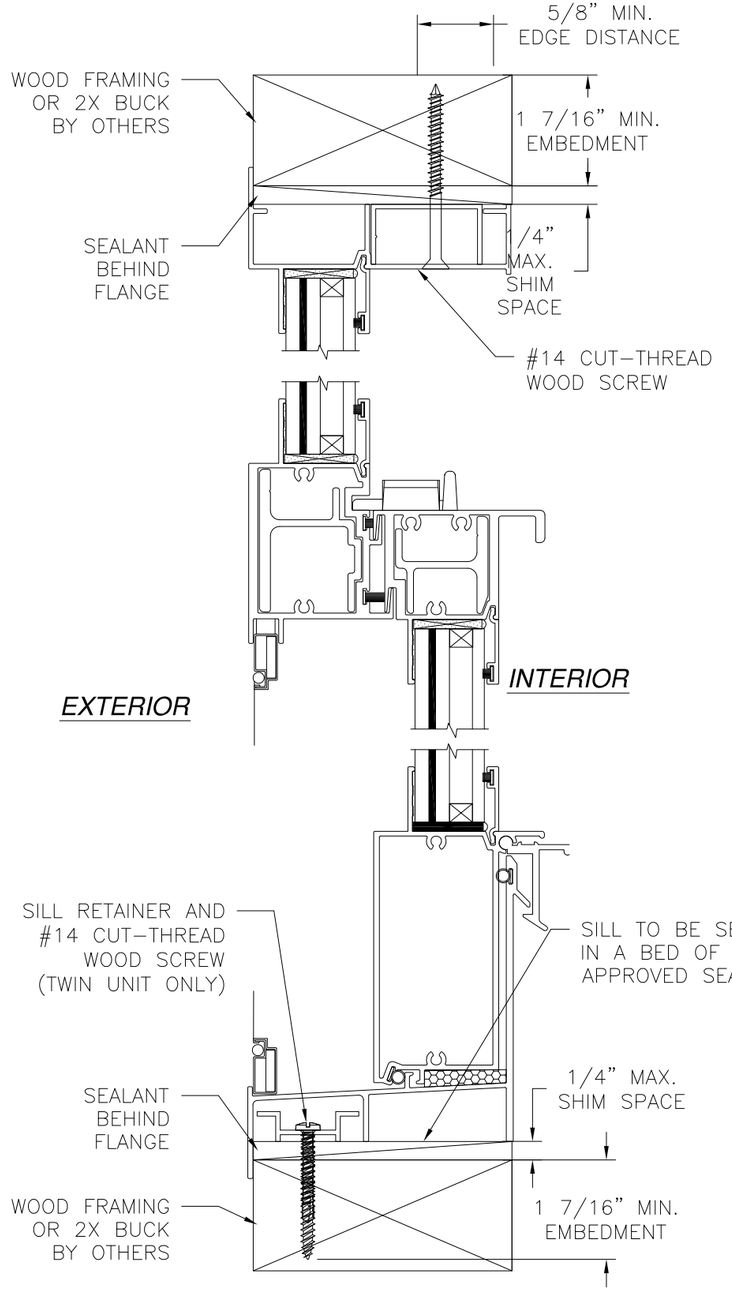
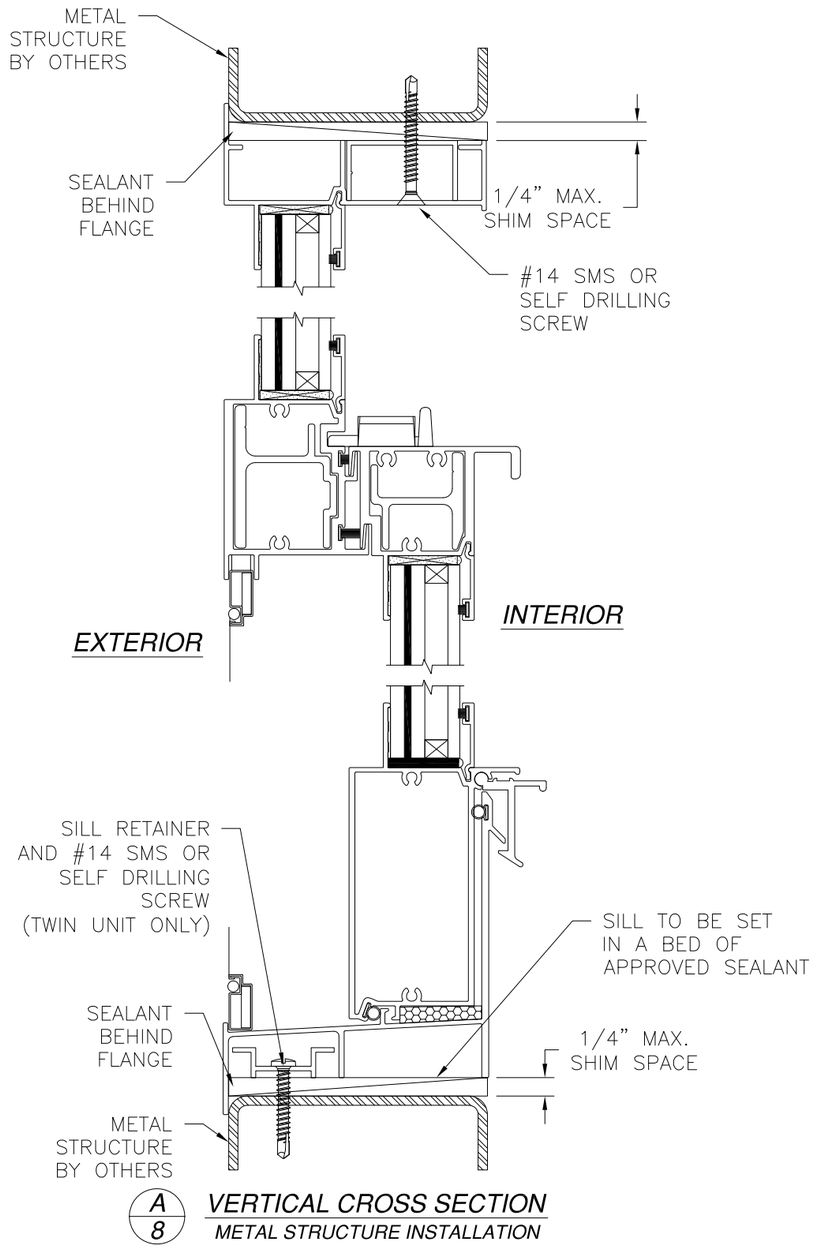
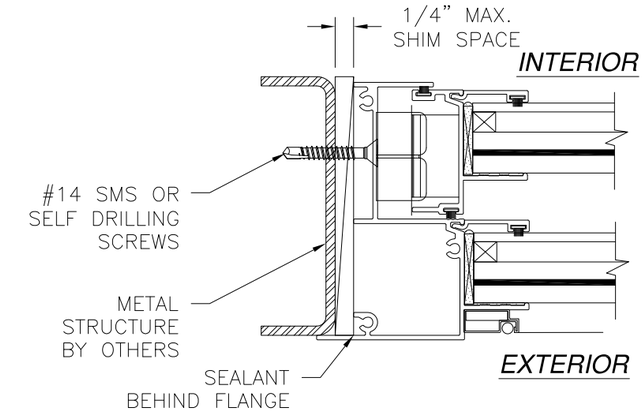


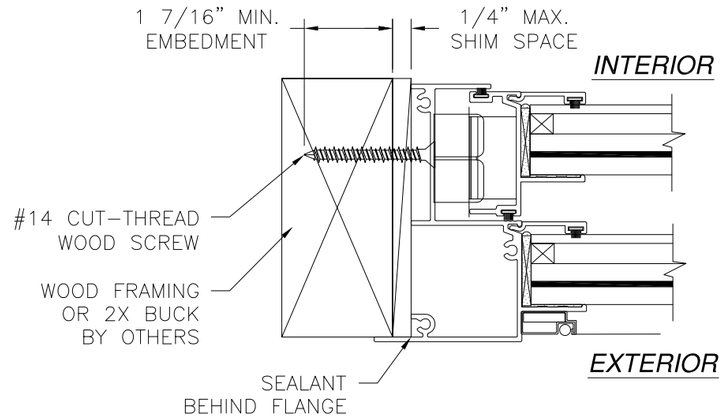
A/8 *VERTICAL CROSS SECTION*
WOOD FRAMING OR 2X BUCK INSTALLATION



A/8 *VERTICAL CROSS SECTION*
METAL STRUCTURE INSTALLATION



B/8 *JAMB INSTALLATION DETAIL*
METAL STRUCTURE INSTALLATION



B/8 *JAMB INSTALLATION DETAIL*
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTE:
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.*
3. *PERIMETER TO BE SEALED WITH APPROVED SILICONE.*

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EQUAL LEG AND FLANGE – SMI
FLANGE INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
N.G.	08–02281	–
SCALE NTS	DATE 02/06/14	SHEET 8 OF 12

STATE OF TEXAS
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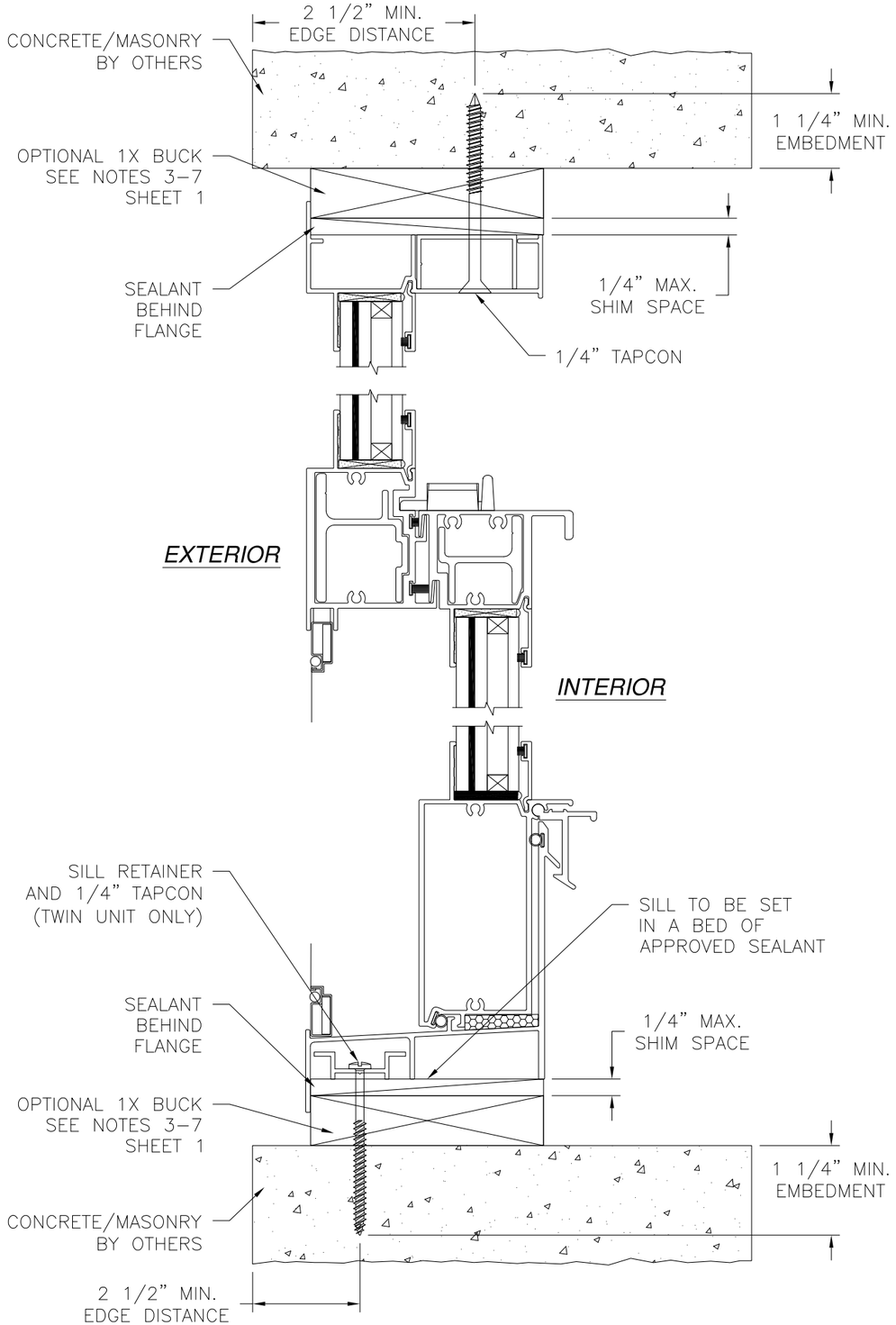
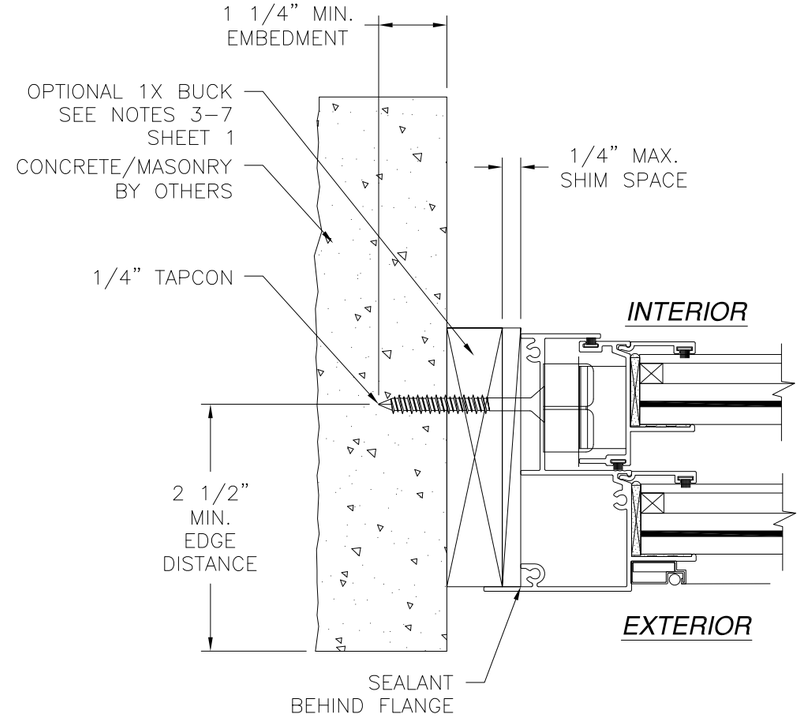
101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



A/9 *VERTICAL CROSS SECTION*
CONCRETE/MASONRY INSTALLATION



B/9 *JAMB INSTALLATION DETAIL*
CONCRETE/MASONRY INSTALLATION

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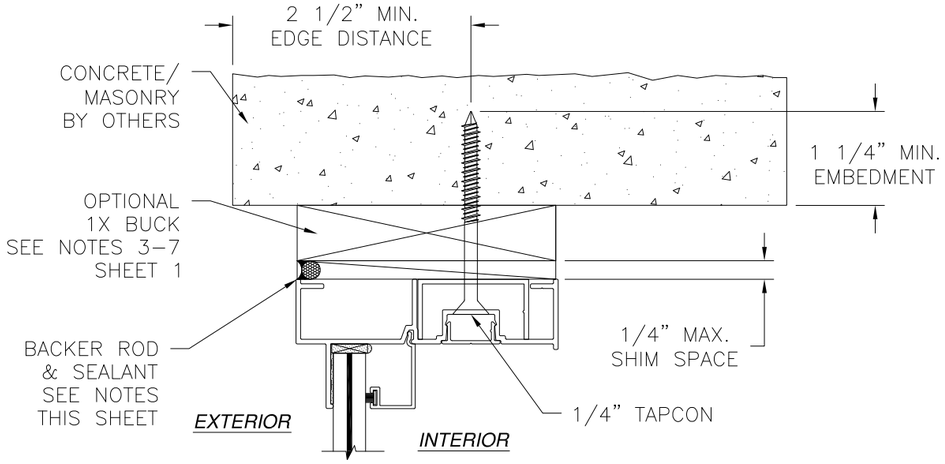
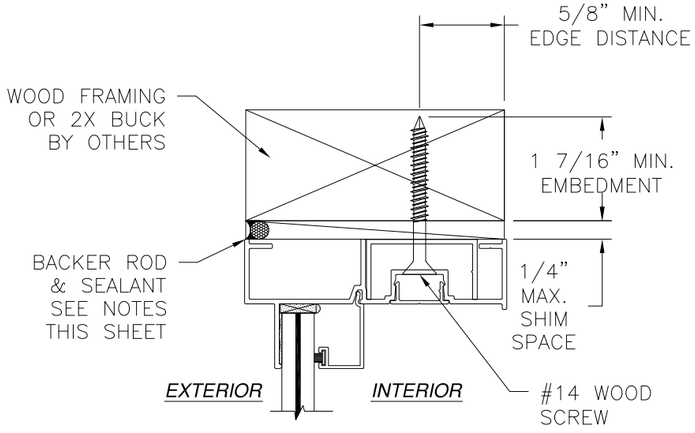
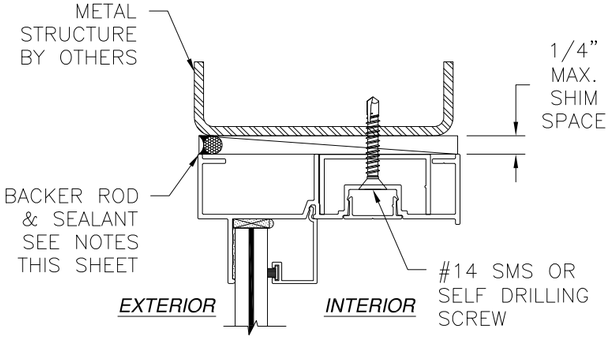


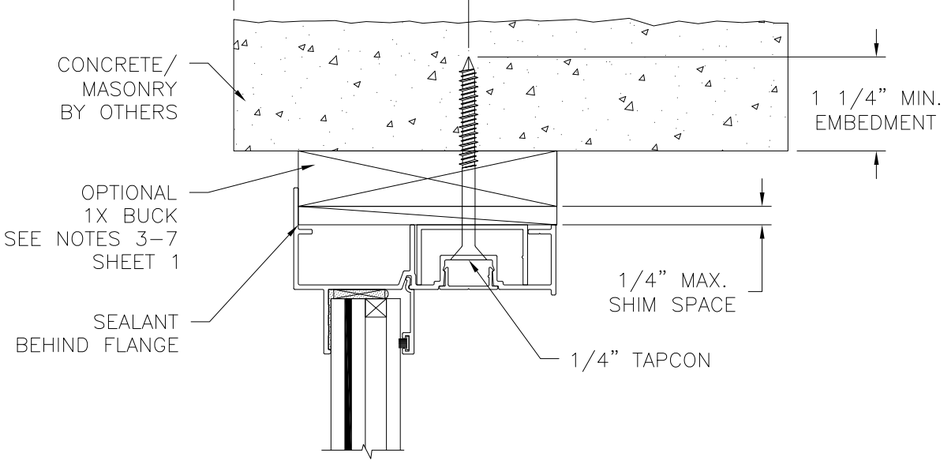
VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



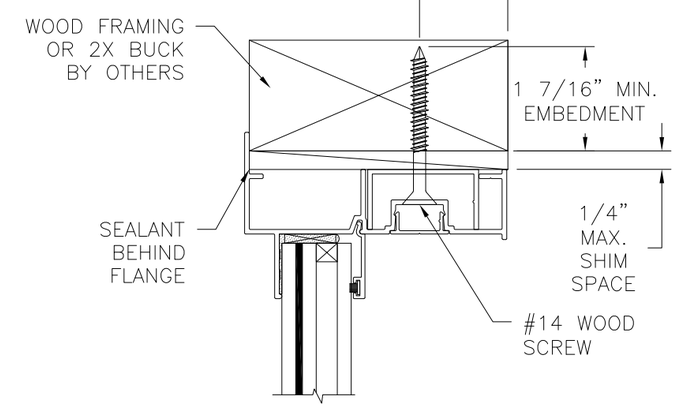
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



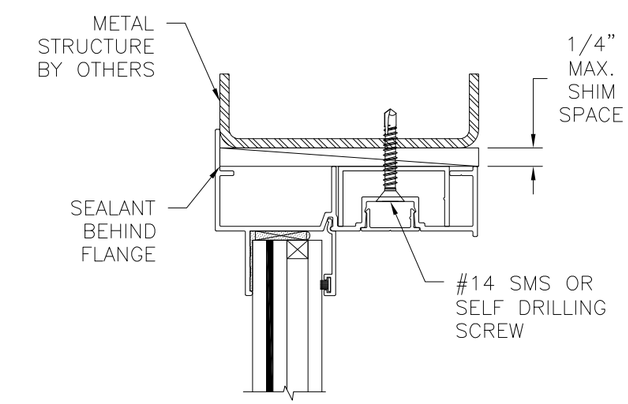
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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INSTALLATION DETAILS ALTERNATE FRAME

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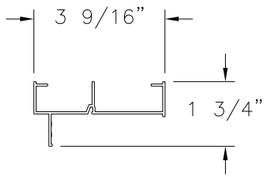
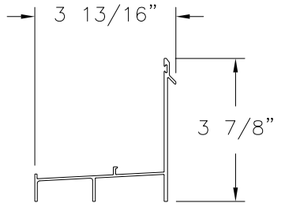
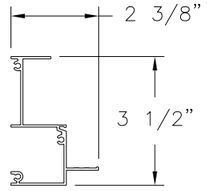


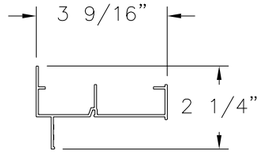
1 FRAME
ALUMINUM 6063-T6 .063" THICK



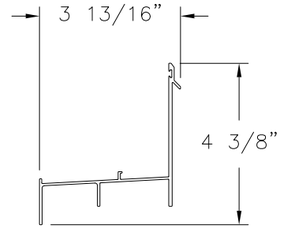
2 FRAME SILL
ALUMINUM 6063-T6 .072" THICK



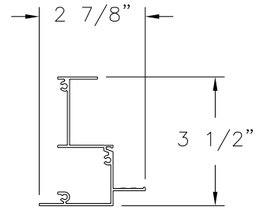
3 FRAME JAMB
ALUMINUM 6063-T6 .063" THICK



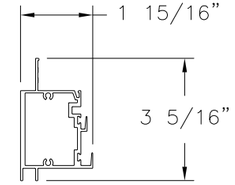
4 FRAME FLANGE
ALUMINUM 6063-T6 .063" THICK



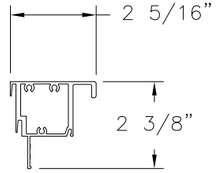
5 FRAME SILL FLANGE
ALUMINUM 6063-T6 .072" THICK



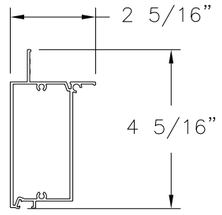
6 FRAME JAMB FLANGE
ALUMINUM 6063-T6 .063" THICK



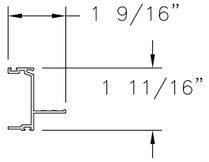
7 FIXED MEETING RAIL
ALUMINUM 6063-T6 .077" THICK



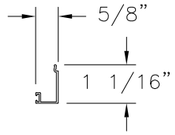
8 MEETING RAIL
ALUMINUM 6063-T6 .063" THICK



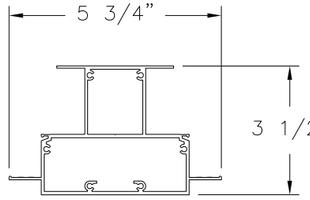
9 LIFT RAIL
ALUMINUM 6063-T6 .063" THICK



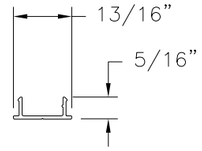
10 SASH JAMB
ALUMINUM 6005-T5 .070" THICK



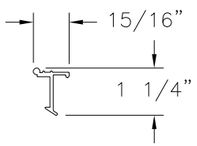
11 12 GLAZING STOP
ALUMINUM 6063-T6 .040" THICK



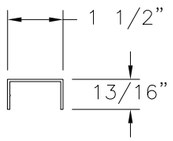
13 VERTICAL IMPOST
ALUMINUM 6005-T61 .062" THICK



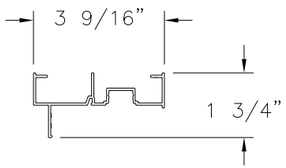
14 HEAD RECESS COVER
ALUMINUM 6063-T6 .063" THICK



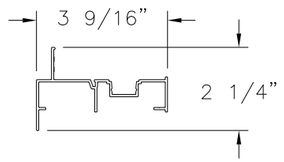
15 SILL SNAP LOCK
ALUMINUM 6063-T6 .090" THICK



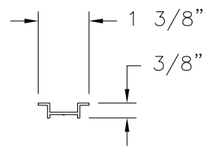
16 HEAD FILLER
ALUMINUM 6063-T6 .063" THICK



33 FRAME W/ CHANNEL
ALUMINUM 6063-T6 .063" THICK



34 FRAME W/ CHANNEL
ALUMINUM 6063-T6 .063" THICK



17 SILL RETAINER
ALUMINUM 6063-T6 .063" THICK

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SCALE NTS	DATE 02/06/14	SHEET 11 OF 12

Luis R. Lomas P.E.
Texas No. 101889

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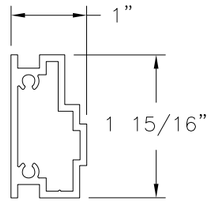
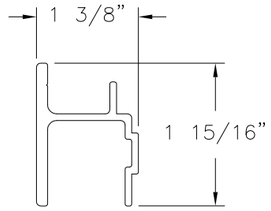
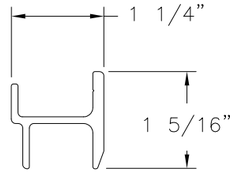


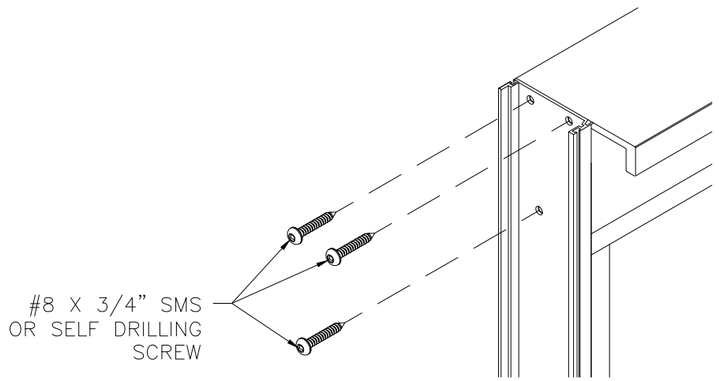
(35) *SHEAR BLOCK*
ALUMINUM 6063-T6 .090" THICK



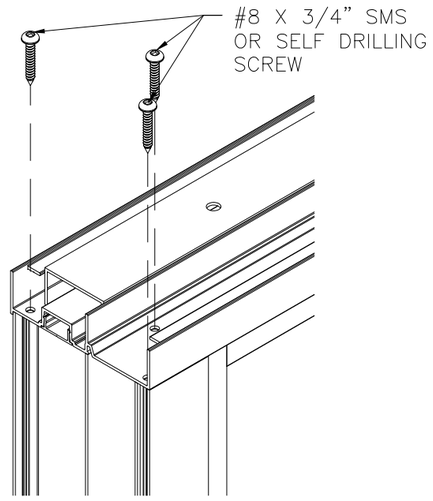
(36) *REINFORCEMENT*
ALUMINUM 6005-T61 .090" THICK



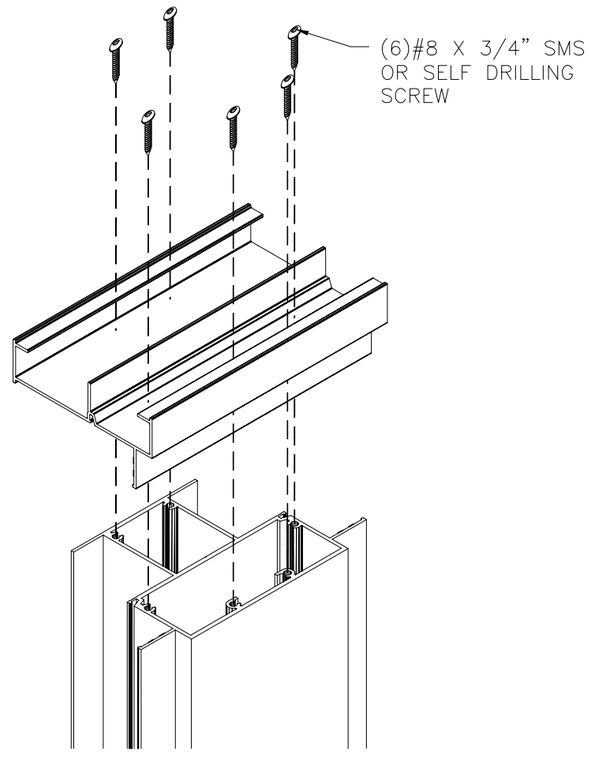
(37) *REINFORCEMENT*
ALUMINUM 6005-T61 .090" THICK



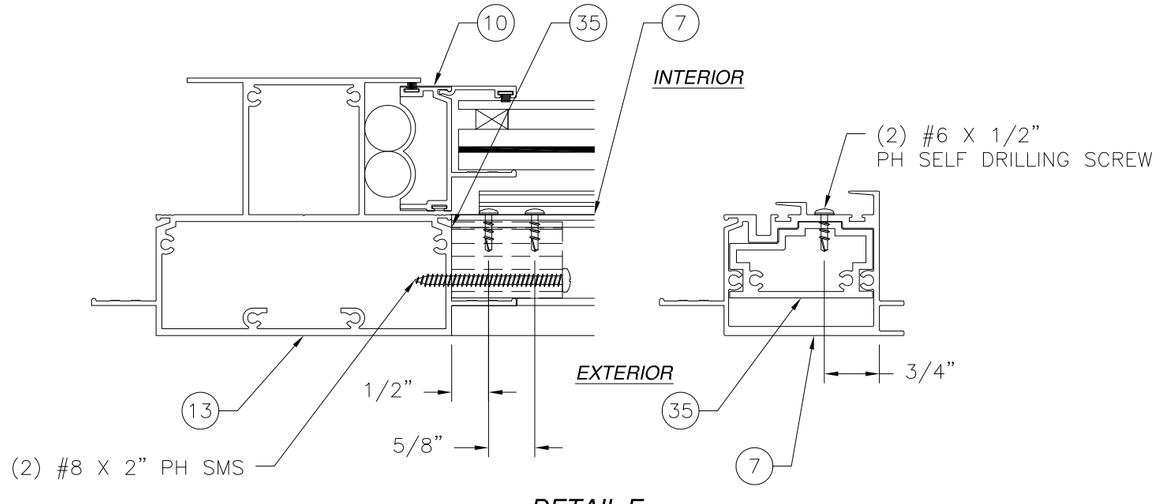
SASH CORNER DETAIL



FRAME CORNER DETAIL



IMPOST ATTACHMENT DETAIL



DETAIL E
SHEAR BLOCK INSTALLATION

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