

SLIDING GLASS DOOR - IMPACT

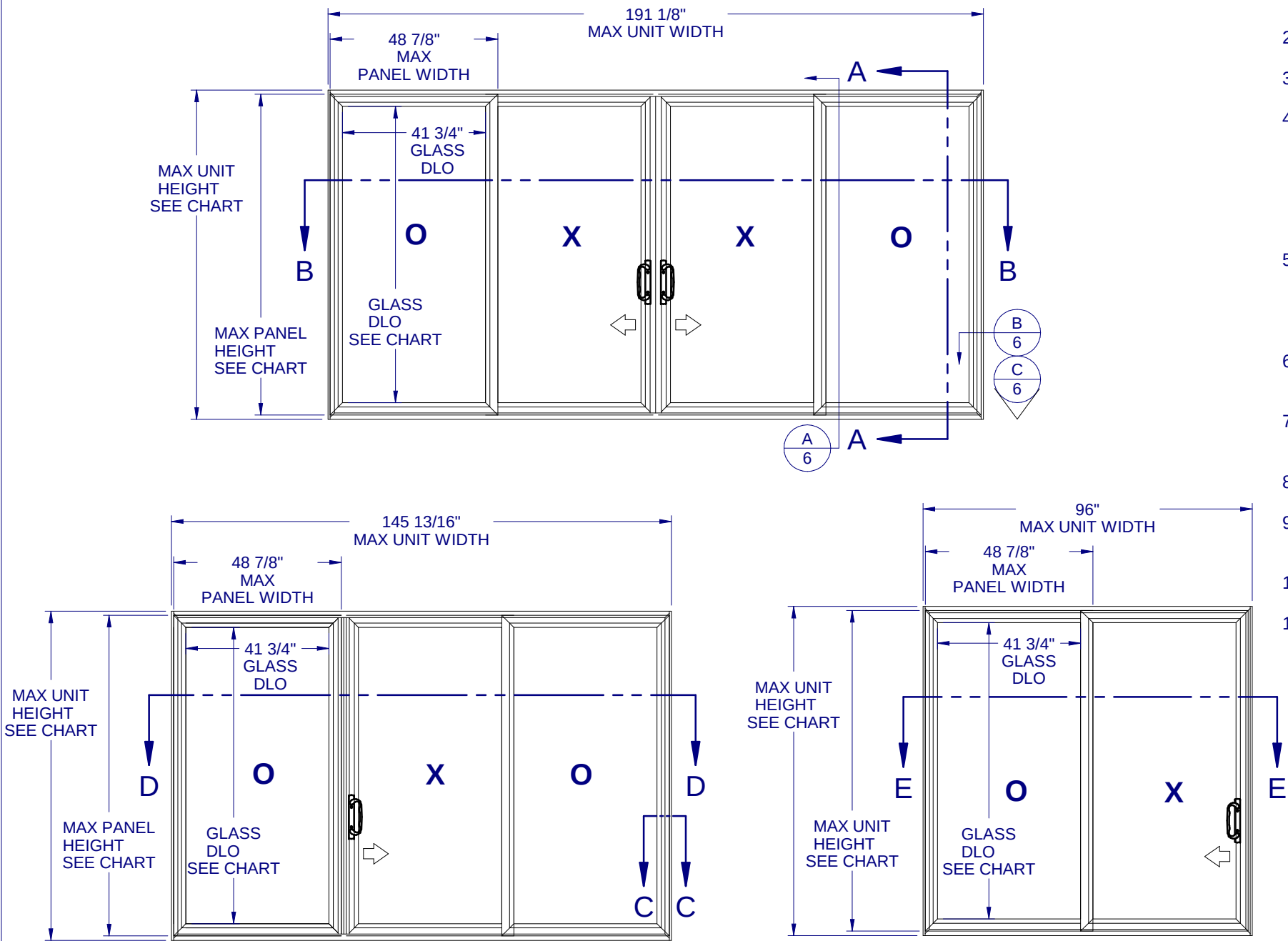


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| CONFIG. | MAX. UNIT SIZE   | MAX. PANEL SIZE                            | DESIGN PRESSURE RATING | GLAZING TYPE (Sht.2) | IMPACT RATING        |
|---------|------------------|--------------------------------------------|------------------------|----------------------|----------------------|
| XO      | 96" x 96"        | 48-7/8" x 93-1/2"<br>DLO 41-3/4" x 86-3/8" | +/-60 PSF              | A                    | LARGE MISSILE IMPACT |
| OXO     | 145-13/16" x 96" |                                            |                        | A                    |                      |
| OXXO    | 191-1/8" x 96"   |                                            |                        | A                    |                      |
| XO      | 96" x 80"        | 48-7/8" x 77-1/2"<br>DLO 41-3/4" x 70-1/4" | +/-60 PSF              | B                    | LARGE MISSILE IMPACT |
| OXO     | 145-13/16" x 80" |                                            |                        | B                    |                      |
| OXXO    | 191-1/8" x 80"   |                                            |                        | B                    |                      |

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION AND IS RATED FOR IMPACT USE IN WIND ZONE 4 AND HIGH VELOCITY HURRICANE ZONE (HVHZ) AREAS AS DEFINED IN ASTM E 1996 PER THE FBC.
2. GLAZING DETAIL: (SEE SHEET 2)
3. APPROVED CONFIGURATIONS: "OXXO", "OXO", "XO", "OX"
4. DESIGN PRESSURES:  
-NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.  
-POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE, AND GLASS TABLES ASTM E-1300-04e01/09.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 6 FOR INSTALLATION DETAIL WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCTS APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
7. FRAMES ARE PROCESSED AND SCREWED TOGETHER. VENTS FULLY WELDED.
8. SERIES / MODEL DESIGNATION: SGD-8900.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:  
X=OPERABLE SASH, O=FIXED SASH.
10. SECTION CALLOUTS APPLY TO ALL CONFIGURATIONS.
11. EXTERNAL WEEP SLOT = 1/4 x 1" LOCATED 4" FROM BOTH ENDS.

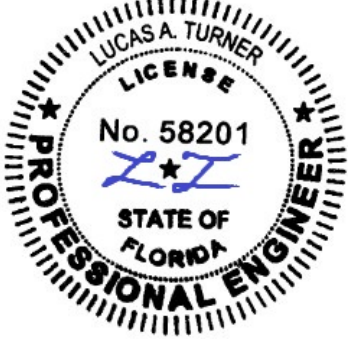
Custom WINDOW SYSTEMS

1900 SW 44TH AVE.  
OCALA, FLORIDA 34474  
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8900 PVC  
SLIDING GLASS  
DOOR - IMPACT

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7/21/2020

LUCAS A. TURNER, P.E.  
FL PE # 58201  
2428 Old Natchez Trc Trl  
Camden, TN 38320  
PH. 941-380-1574

SHEET DESCRIPTION:  
GENERAL NOTES AND ELEVATIONS

DRAWN BY:  
ADE

DATE:  
06/03/08

DWG #:  
CWS-298

REV.:  
E

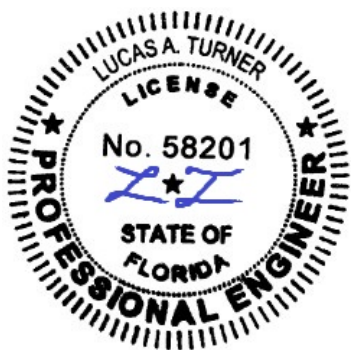
SCALE:  
1:33.33

SHEET  
1 OF 6

8900 PVC  
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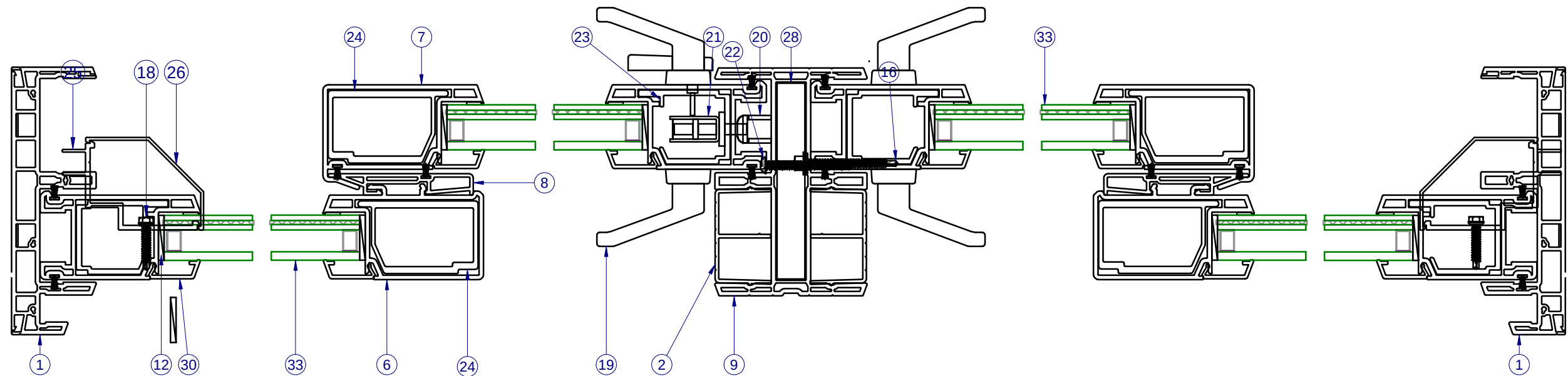
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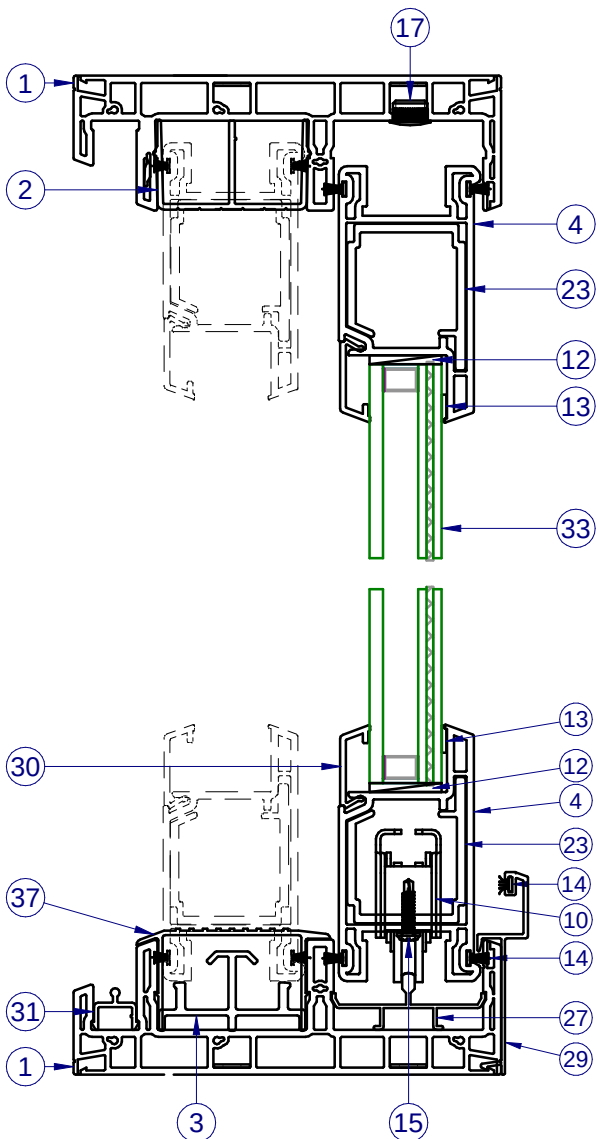
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SECTION VIEWS - OXO  
AND GLAZING DETAIL

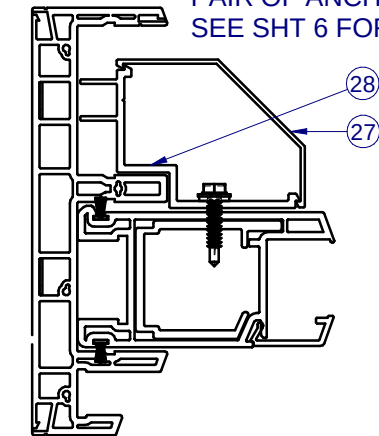
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| ADE       | 06/03/08 |
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| CWS-298   | E        |
| SCALE:    | SHEET    |
| 1:2.63    | 2 OF 6   |



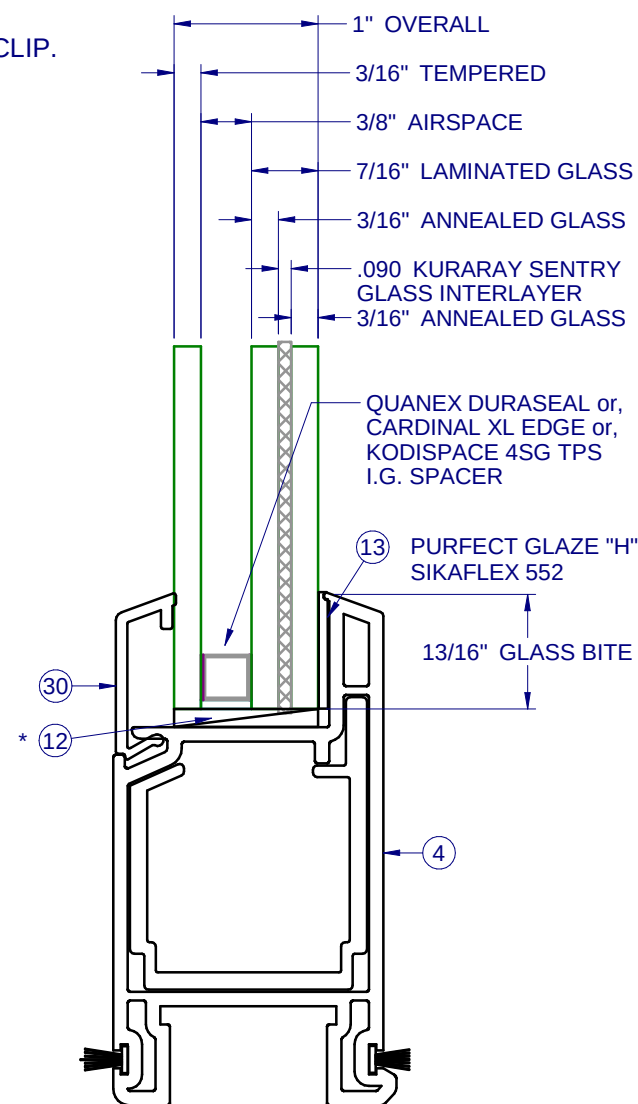
SECTION B-B



PAIR OF ANCHORS AT EACH CLIP.  
SEE SHT 6 FOR SPACING

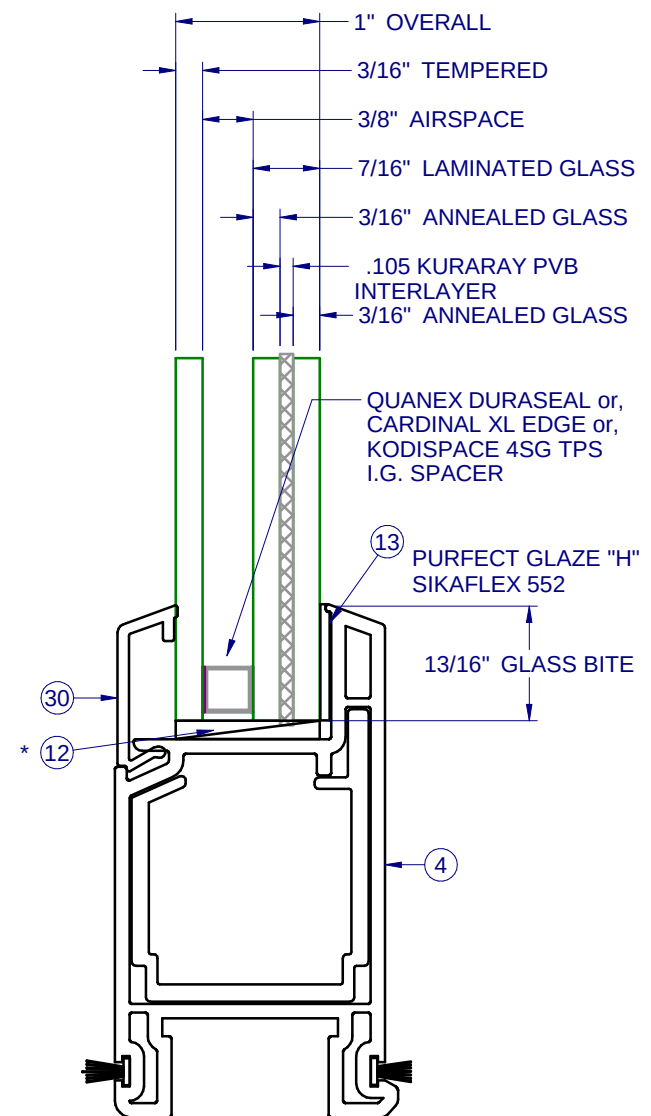


SECTION C-C  
FIXED PANEL ATTACHMENT



1:1.33

GLASS TYPE A

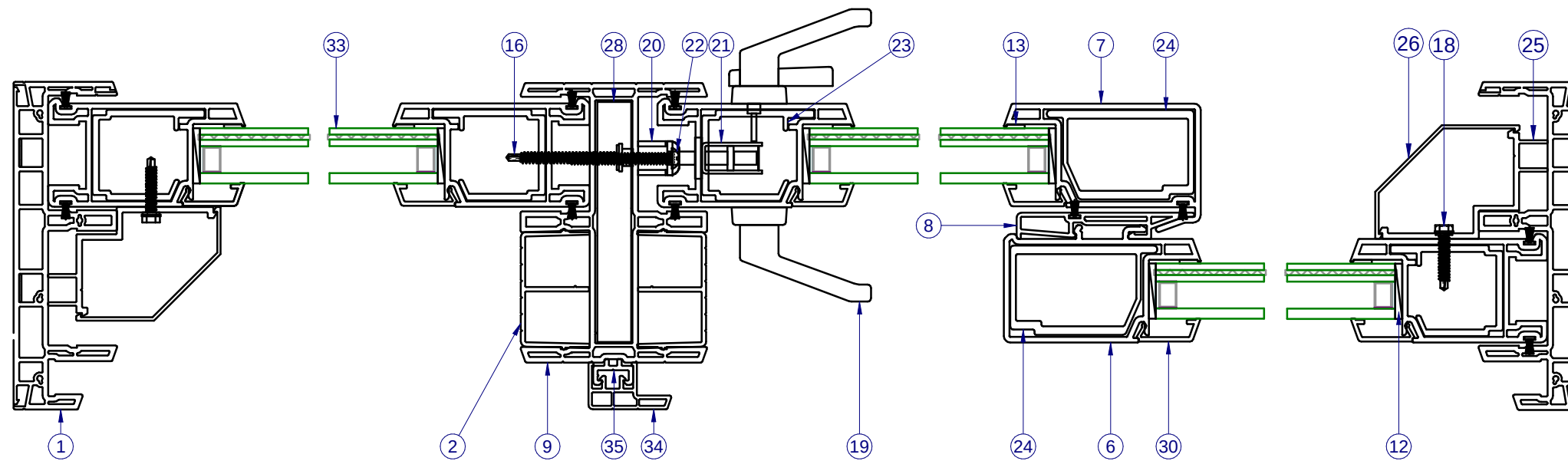


1:1.33

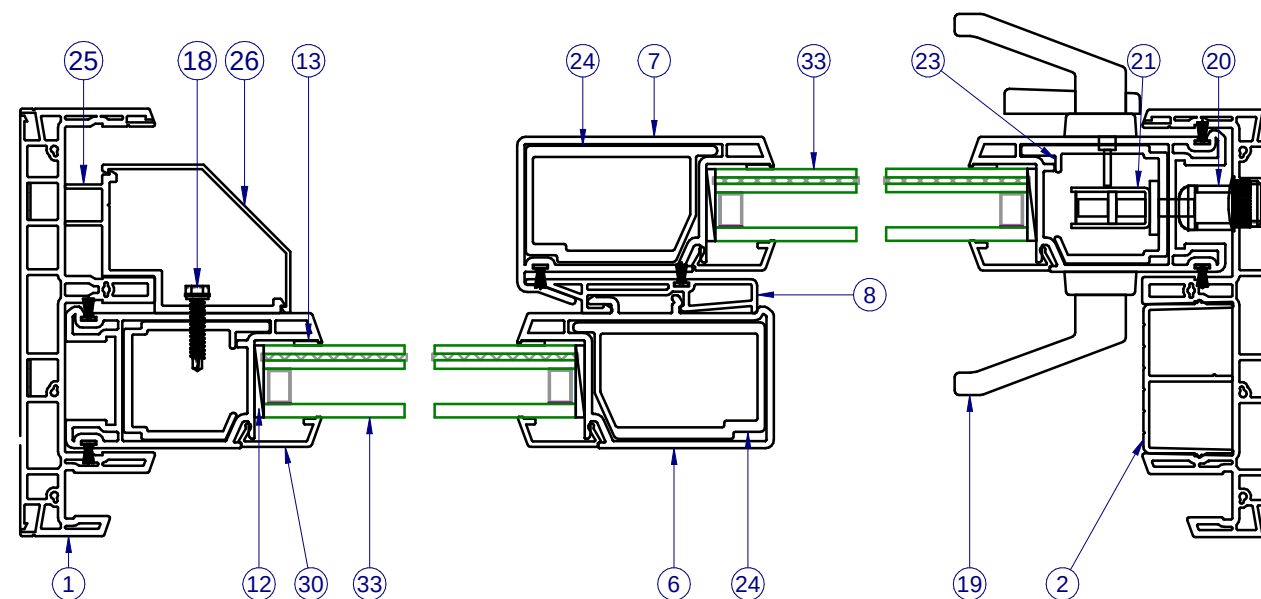
GLASS TYPE B

NOTE:  
INSTALLATION WITH NO SILL RISER ALLOWED ONLY WHERE  
WATER INFILTRATION RESISTANCE IS NOT REQUIRED.

\* SETTING BLOCKS PER FBC 2411.3.3.1



SECTION D-D



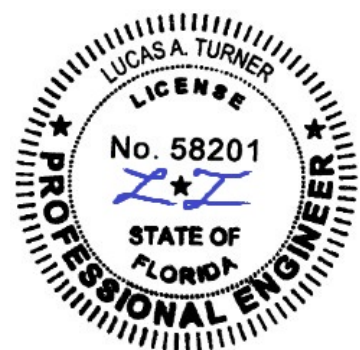
SECTION E-E

NOTES;  
1. ITEMS NOT SHOWN FOR CLARITY: 10, 26-32  
2. VERTICAL SECTION CAN BE SEEN ON SHEET 2.

## 8900 PVC SLIDING GLASS DOOR - IMPACT

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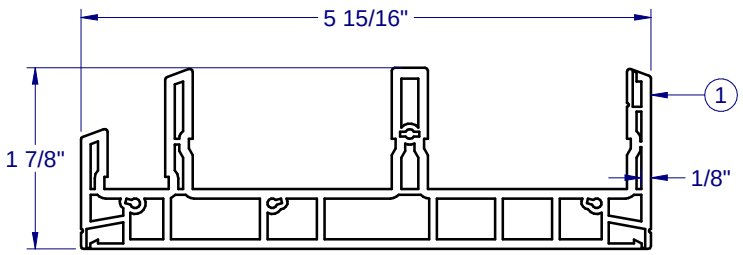
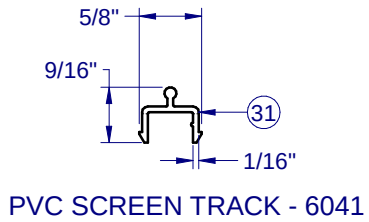
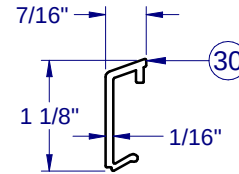
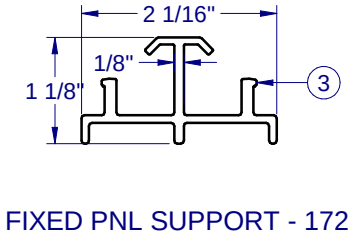
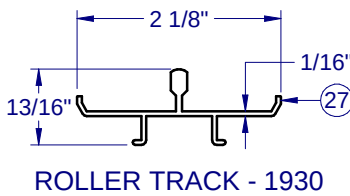
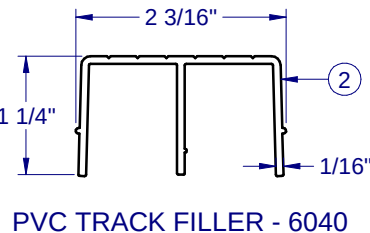
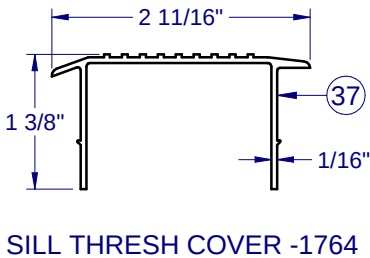
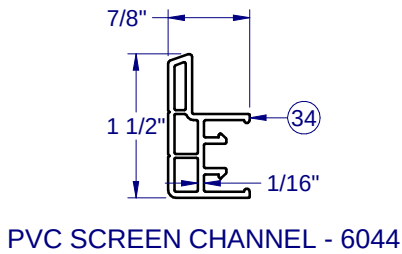
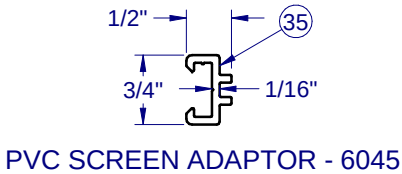
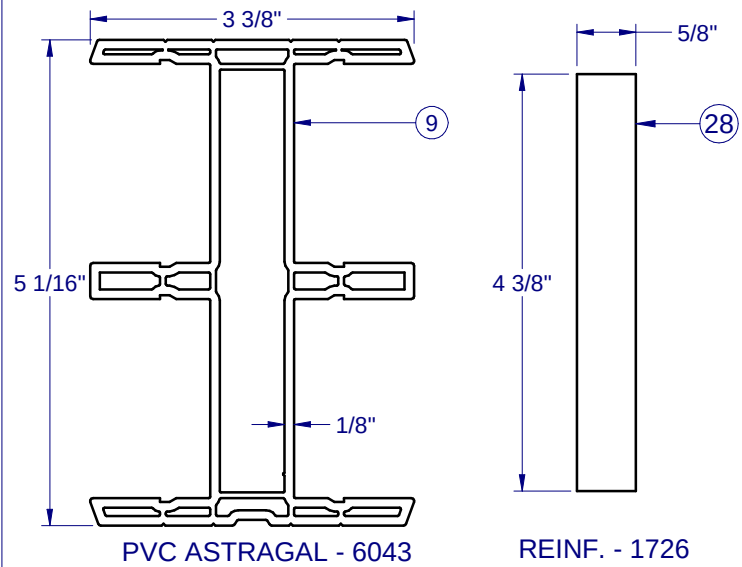
SHEET DESCRIPTION:

SECTION VIEWS - OXO  
AND XO/OX

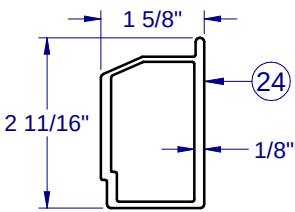
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| CWS-298   | E        |
| SCALE:    | SHEET    |
| 1:2.63    | 3 OF 6   |



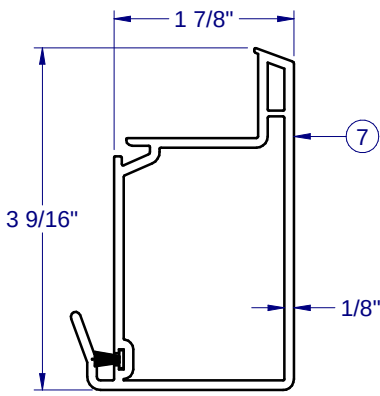
| PARTS LIST |          |                                    |          |
|------------|----------|------------------------------------|----------|
| ITEM       | PART NO. | DESCRIPTION                        | MATERIAL |
| 1          | H-6042   | FRAME, MAIN, SGD                   | PVC      |
| 2          | S-6040   | THRESHOLD/FILLER, SGD              | PVC      |
| 3          | S-1722   | SUPPORT BLOCK, FIXED, SGD          | ALUM     |
| 4          | H-6059   | PANEL TOP/BOTTOM RAIL, SGD         | PVC      |
| 5          | H-6059   | PANEL SIDE RAIL, SGD               | PVC      |
| 6          | H-6033   | PANEL, INTERLOCK, FIXED            | PVC      |
| 7          | H-6060   | PANEL, INTERLOCK, OPERABLE         | PVC      |
| 8          | H-6061   | INTERLOCK, SNAP-ON                 | PVC      |
| 9          | H-6043   | ASTRAGAL, SGD,                     | PVC      |
| 10         | P-3142   | ROLLER, TANDEM                     | STEEL    |
| 11         | P-3342   | SEAM SEALER, SM-5504               |          |
| 12         | P-5615   | SET. BLOCK, 85 DUR. 1/8" X 1" X 2" | RUBBER   |
| 13         | P-3438   | SIKAFLEX 552 OR PURFECT GLAZE "H"  |          |
| 14         | P-3429   | WSTP., 0.270 X .187, BACK FINSEAL  |          |
| 15         | P-3539   | #8 X 3/4" QUAD PHILIPS, TEK        | ZINC     |
| 16         | P-3557   | #10 x 2, HEXHEAD, TEK              | ZINC     |
| 17         | P-5588   | CAP PLUG, 1/2" HOLE                | NYLON    |
| 18         | P-3767   | #10 X 1" HEX WASHER HEAD, TEK      | ZINC     |
| 19         | P-5535   | LOCK & HANDLE KIT, PVC, SGD        | STEEL    |
| 20         | P-3792   | 3/4" KEEPER                        | SS       |
| 21         | P-3793   | MORTISE LOCK                       | SS       |
| 22         | P-4136   | #10 x 2, PAN HEAD PHIL, SMS        | STEEL    |
| 23         | S-1775   | REINFORCEMENT, ALUM., PANEL        | ALUM     |
| 24         | H-1993   | REINFORCEMENT, ALUM., PANEL        | ALUM     |
| 25         | P-4295   | FIXED PANEL CLIP                   | ALUM     |
| 26         | S-1597   | COVER, FIXED PANEL CLIP            | ALUM     |
| 27         | S-1930   | PANEL TRACK, ALUMINUM, SGD, SILL   | ALUM     |
| 28         | S-1726   | REINFORCEMENT, ASTRAGAL, SGD       | ALUM     |
| 29         | S-1737   | HIGHRISE SILL, ALUMINUM            | ALUM     |
| 30         | S-6037   | GLAZING BEAD 1.00", SGD            | PVC      |
| 31         | S-6041   | TRACK, SCREEN, SGD                 | PVC      |
| 33         |          | GLASS (SEE SHEET 2)                |          |
| 34         | H-6044   | SCREEN CHANNEL                     | PVC      |
| 35         | S-6045   | SCREEEN ADAPTOR                    | PVC      |
| 36         | P-4278   | WSTP., 0.2" X 1.25" DUST PLUG      |          |
| 37         | S-1764   | SILL THRESHOLD COVER (8900)        | ALUM     |
| 38         | P-4366   | WSTP., 1" X 7.1" X 0.7" DUST PLUG  |          |
| 39         | P-3302   | WSTP., 0.330" X 0.187" BACK FIN    |          |
| 40         | P-4479   | WEEP HOLE COVER                    | PVC      |



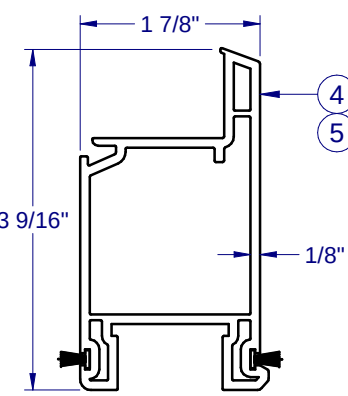
PVC OUTER FRAME - 6042



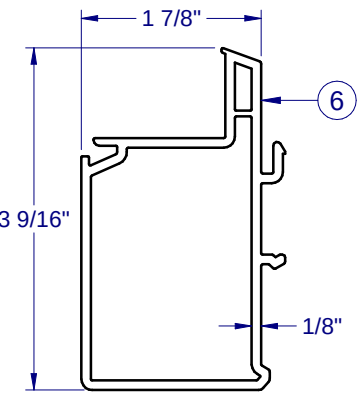
REINF. - 1993



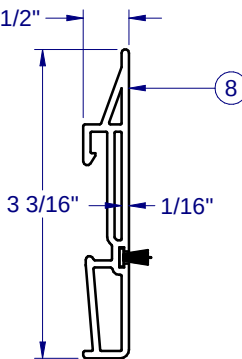
PVC PNL INTERLOCK - 6060



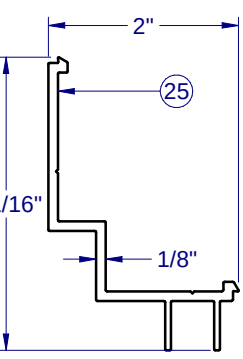
PVC PNL LOCKSTILE - 6059



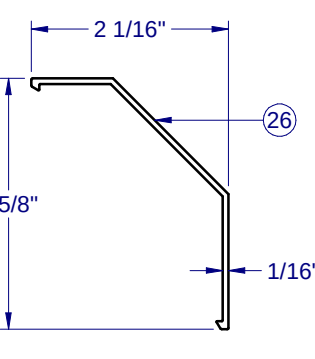
PVC PNL INTERLOCK - 6033



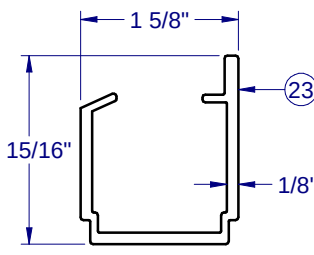
PVC INTERLOCK SNAP - 6061



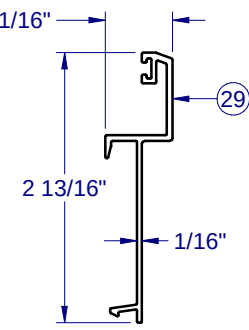
FIXED PNL CLIP - 4295



FIXED PNL COVER - 1597



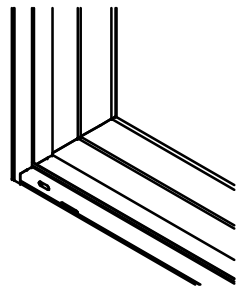
REINF. - 1775



HIGHRISE - 1737

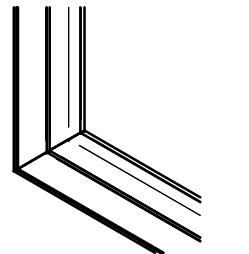
NOTE: ALL EXTRUSIONS ARE ALUMINUM 6063-T6 UNLESS OTHERWISE SPECIFIED.

FRAME CONSTRUCTION



FRAME CORNERS  
SCREWED TOGETHER  
1:10

VENT CONSTRUCTION



VENTS FULLY WELDED  
1:10

**Custom**  
**WINDOW SYSTEMS**

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**8900 PVC  
SLIDING GLASS  
DOOR - IMPACT**

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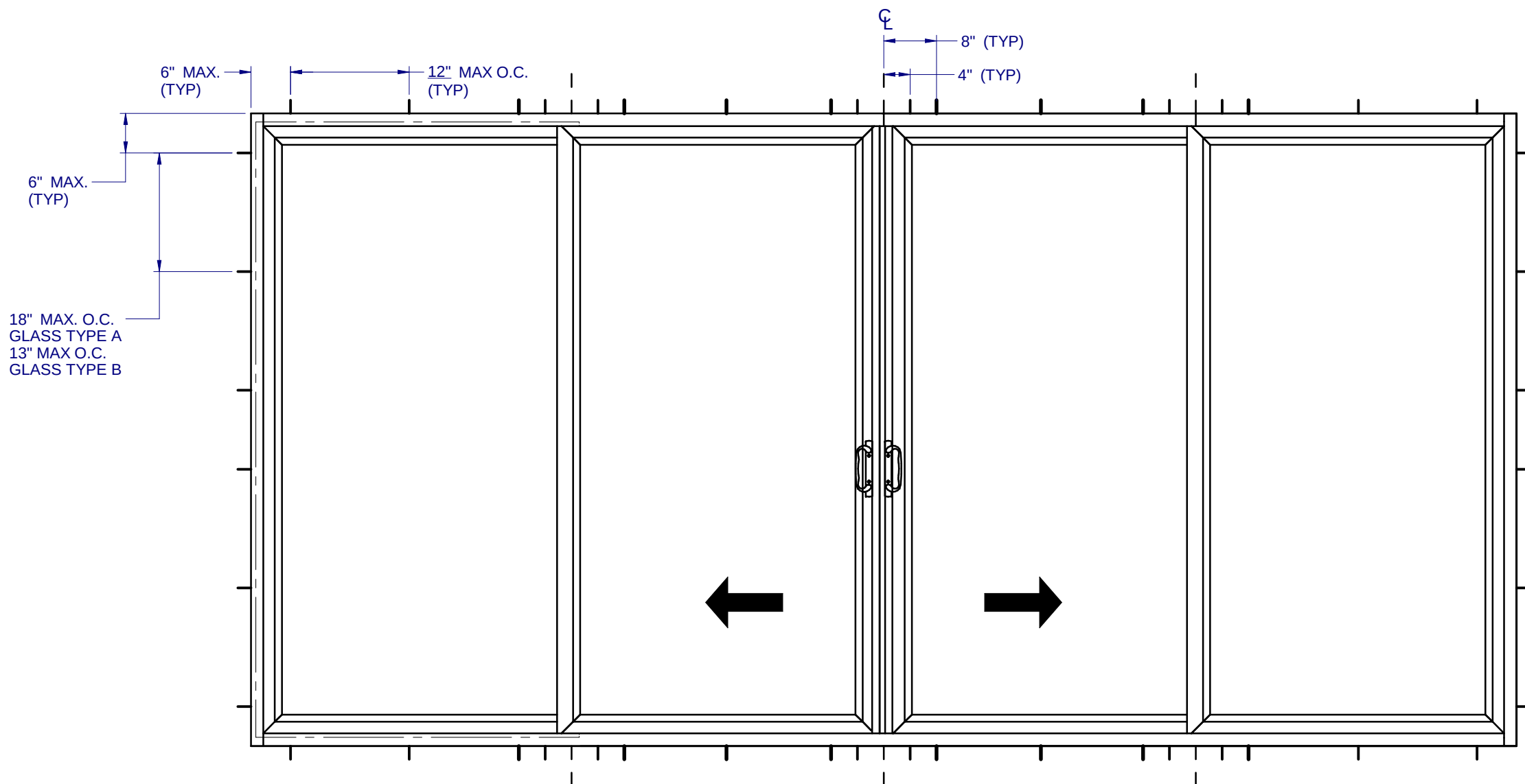
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2428 Old Natchez Trc Trl  
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SHEET DESCRIPTION:

BOM AND EXTRUSIONS

|           |          |
|-----------|----------|
| DRAWN BY: | DATE:    |
| ADE       | 06/03/08 |
| DWG #:    | REV.:    |
| CWS-298   | E        |
| SCALE:    | SHEET    |
| 1:2       | 4 OF 6   |



ANCHOR LAYOUT

NOTES:

1. INSTALL TWO ANCHORS AT EACH LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ'D AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 6.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 6.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 2" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 6. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS).

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LUCAS A. TURNER

LICENSE

No. 58201

STATE OF FLORIDA

PROFESSIONAL ENGINEER

7/21/2020

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PH. 941-380-1574

|                           |          |
|---------------------------|----------|
| SHEET DESCRIPTION:        |          |
| ANCHOR SCHEDULE AND NOTES |          |
| DRAWN BY:                 | DATE:    |
| ADE                       | 06/03/08 |
| DWG #:                    | REV.:    |
| CWS-298                   | E        |
| SCALE:                    | SHEET    |
| 1:20                      | 5 OF 6   |

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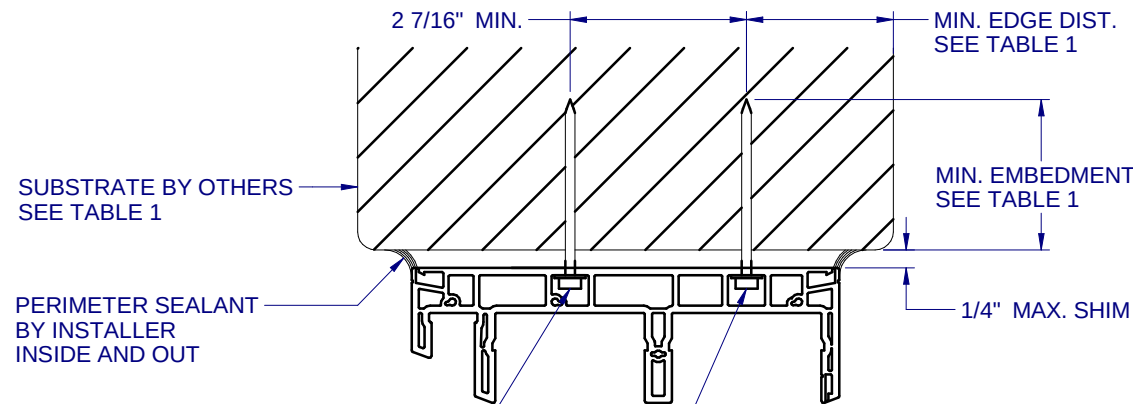
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SHEET DESCRIPTION:

### GENERAL NOTES AND ELEVATIONS

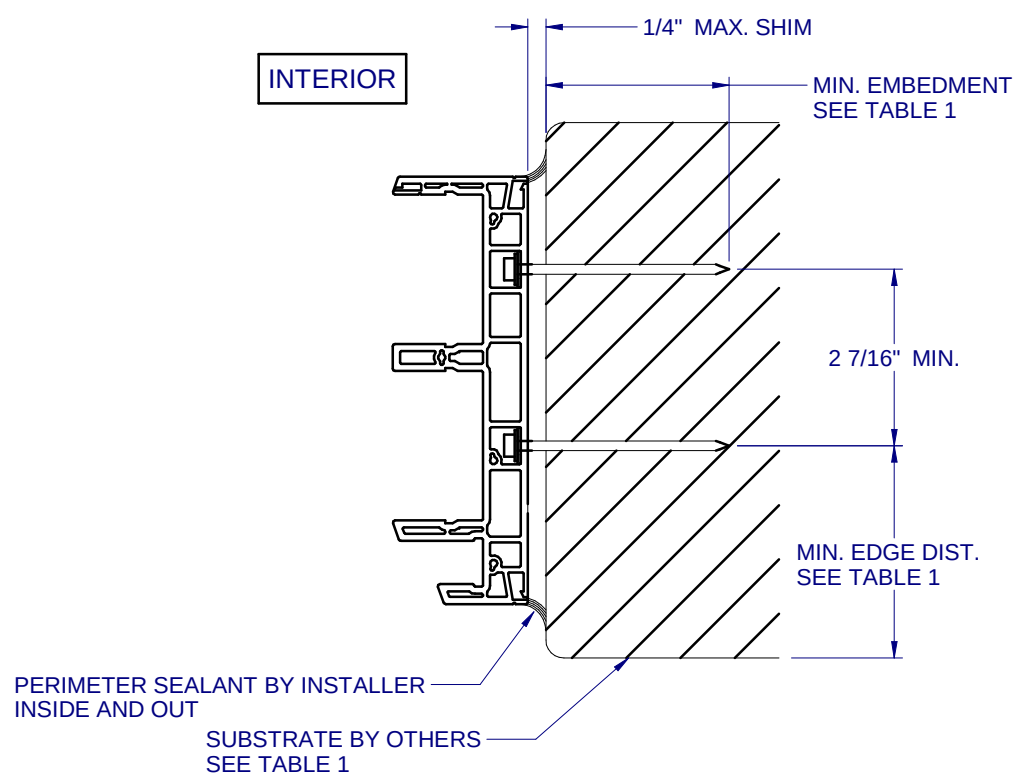
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| SCALE:    | SHEET    |
| 1:2.67    | 6 OF 6   |

### TYPICAL HEAD ANCHORAGE



A  
6 VERTICAL SECTION  
TYPICAL SILL ANCHORAGE

INTERIOR

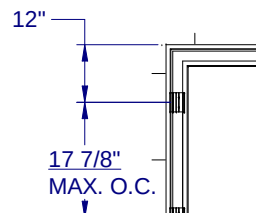


B  
6 HORIZONTAL SECTION  
TYPICAL JAMB ANCHORAGE

TABLE 1: APPROVED INSTALLATION FASTENERS

| SUBSTRATE TYPE                                                                                      | ANCHOR TYPE                                            | MIN. EMBEDMENT          | MIN. EDGE DIST. |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|-----------------|
| CONCRETE (2.0 KSI MIN.)                                                                             | 3/16" ITW TAPCON                                       | 1"                      | 3"              |
| CONCRETE (2.85 KSI MIN.)                                                                            | 3/16" ELCO ULTRACON                                    | 1-3/4"                  | 1"              |
| HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)                                                           | 3/16" ITW TAPCON                                       | 1"                      | 3"              |
| HOLLOW OR GROUT-FILLED CMU (ASTM C-90)                                                              | 3/16" ELCO ULTRACON                                    | 1-1/4"                  | 2-1/2"          |
| 2X MIN. SOUTHERN PINE (G=0.55)                                                                      | 3/16" ITW TAPCON                                       | 1-3/8"                  | 1"              |
| 2X MIN. SOUTHERN PINE (G=0.55)                                                                      | #10 WOOD SCREW                                         | 1-3/8"                  | 1"              |
| 16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN)                                                | #10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW | FULL THREAD THRU 0.060" | 7/16"           |
| 1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)                                               | #10 GRADE 5 SELF-TAPPING / DRILLING SCREW              | FULL THREAD THRU 0.125" | 7/16"           |
| FIXED PANEL CLIP ANCHORS INTO: CONCRETE (2.0 KSI MIN.) OR HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.) | 3/16" ITW TAPCON                                       | 1"                      | 3"              |
| FIXED PANEL CLIP ANCHORS INTO: CONCRETE (2.85 KSI MIN.) OR HOLLOW OR GROUT-FILLED CMU (ASTM C-90)   | 3/16" ELCO ULTRACON                                    | 1-1/4"                  | 2-1/2"          |

NOTE: FIXED PANEL CLIP ANCHORS INTO WOOD OR METAL SHALL FOLLOW THE ANCHOR TYPE, MIN. EMBEDMENT AND MIN. EDGE DISTANCE LISTED IN TABLE 1.



FIXED PANEL CLIP  
CLIP ANCHORS MUST  
BE LOCATED A MINIMUM  
DISTANCE OF 3" AWAY  
FROM ANY MAIN FRAME  
ANCHOR.

INSTALLATION  
ANCHOR (TYP)

FIXED PANEL CLIP DETAIL

C  
6 HORIZONTAL SECTION  
FIXED PANEL ANCHORAGE