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# COUNTRYSIDE GLASS & MIRROR, INC

## CS5100 STOREFRONT SYSTEM

### (WZ3)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - AAMA 501-15
  - ASTM E1886-13a
  - ASTM E1996-17
  - ASTM E330-14
  - ASTM E331-00(09)
  - ASTM E283-04
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT TO BE REVIEWED BY BUILDING OFFICIAL OR AHJ.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. DOOR FRAME MATERIAL: ALUMINUM 6063-T5
8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 7 FOR GLAZING DETAIL.

| TABLE OF CONTENTS |                                             |
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| 7                 | GLAZING DETAILS AND DESIGN PRESSURE TABLES  |
| 8                 | ANCHOR NOTES, DETAILS, AND SCHEDULE         |

|                              |                               |
|------------------------------|-------------------------------|
| DESIGN PRESSURES - ALL SIZES | MISSILE IMPACT RATING         |
| SEE SHEET 6 & 7              | LARGE AND SMALL MISSILE RATED |

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 SEE CHARTS ON SHEET 7 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3 CHECK MULLION CAPACITY FOR A GIVEN SPACING, HEIGHT, SINGLE SPAN ON SHEETS 6.
- STEP 4 THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 5 SELECT ANCHOR OPTION FROM TABLE ON SHEET 8 AND USE ANCHOR SPACING SHOWN ON SHEET 3 FOR INSTALLATION.



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TITLE: CS5100 STOREFRONT SYSTEM (WZ3)/(IMPACT)  
INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

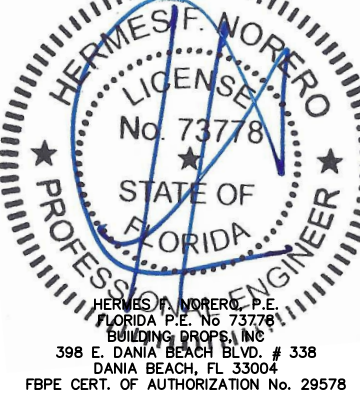
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DANIA BEACH, FL 33004  
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Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2022.06.17 18:31:04-00'



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DWG. BY: LL      CHK. BY: HFN

SCALE: NTS

DWG. #: CGM007

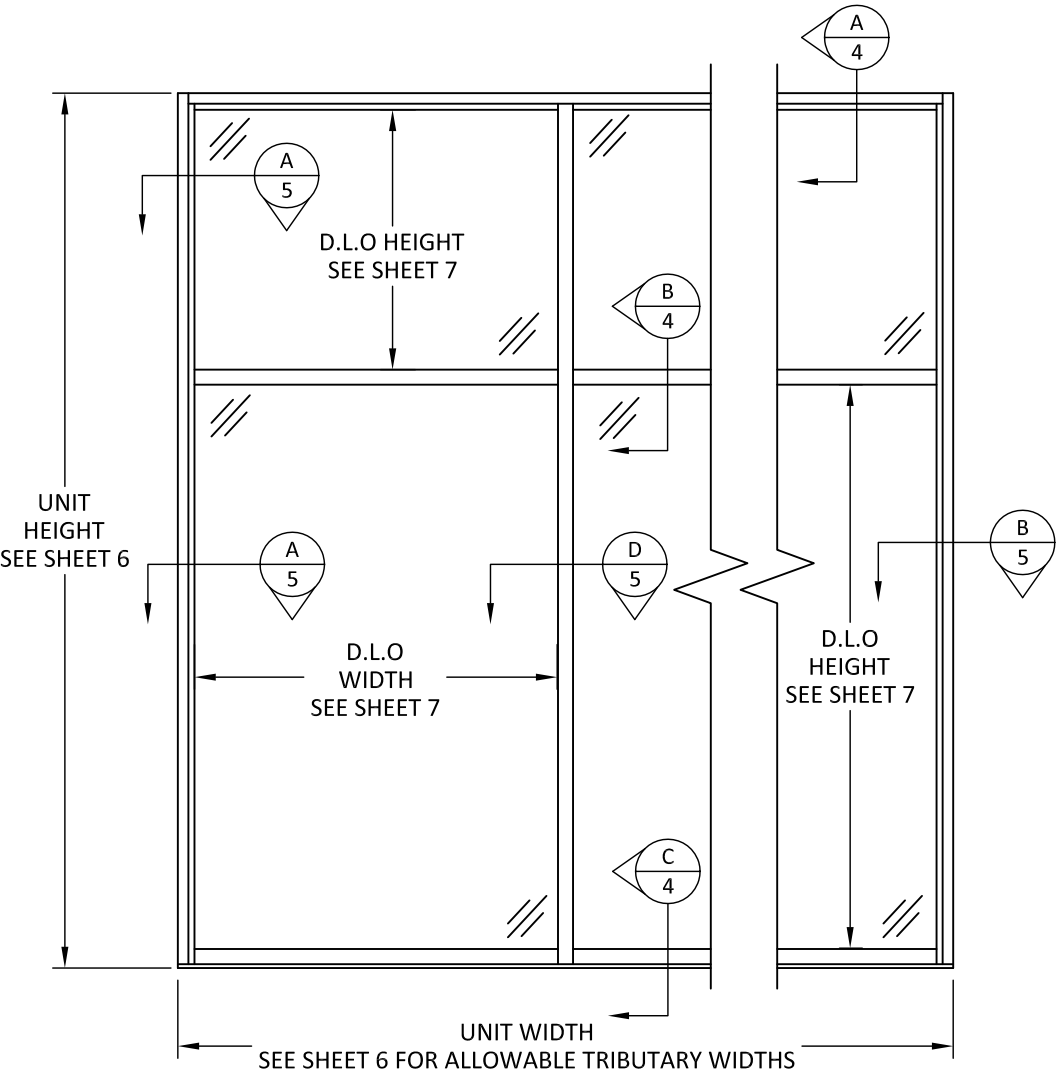
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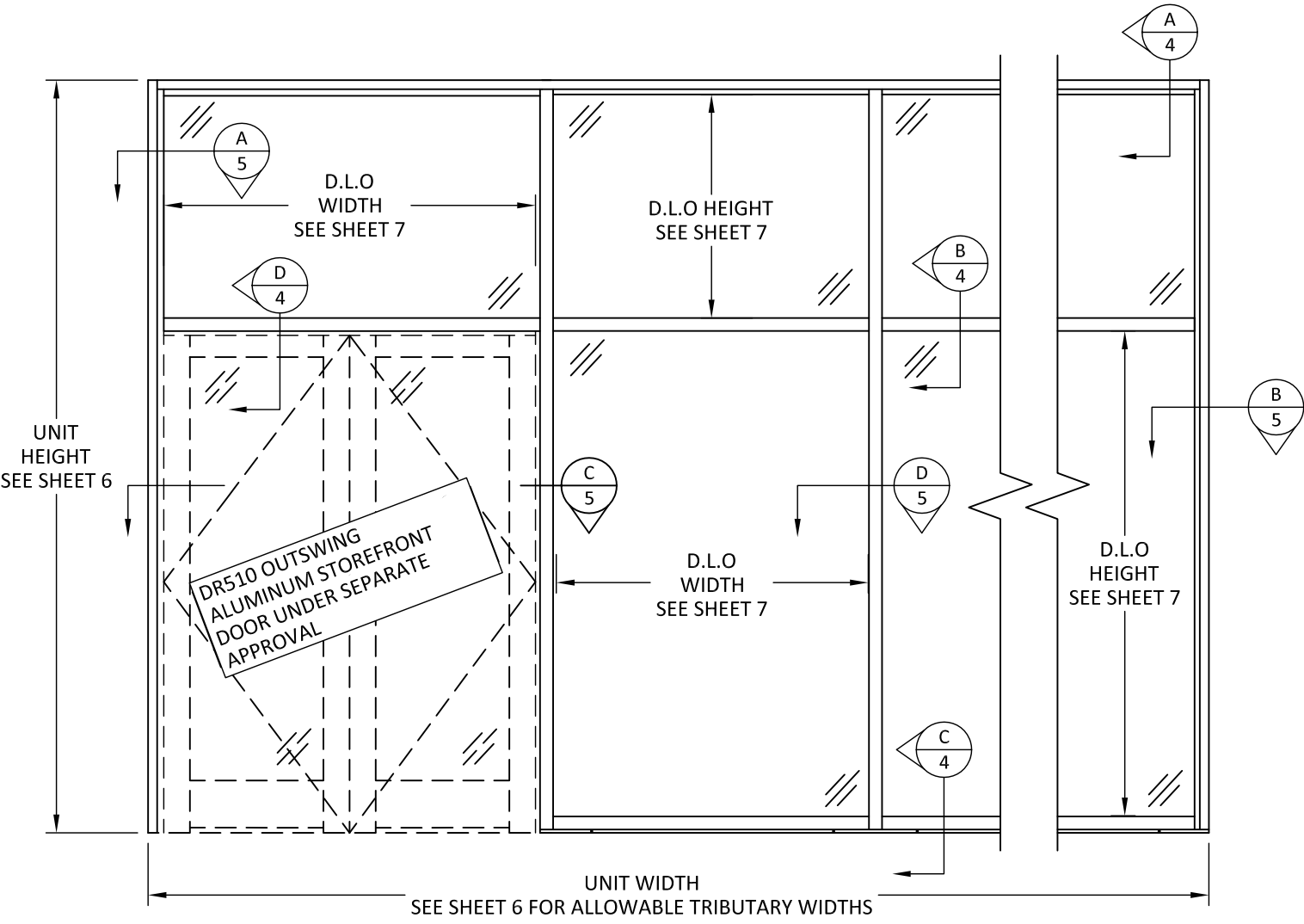
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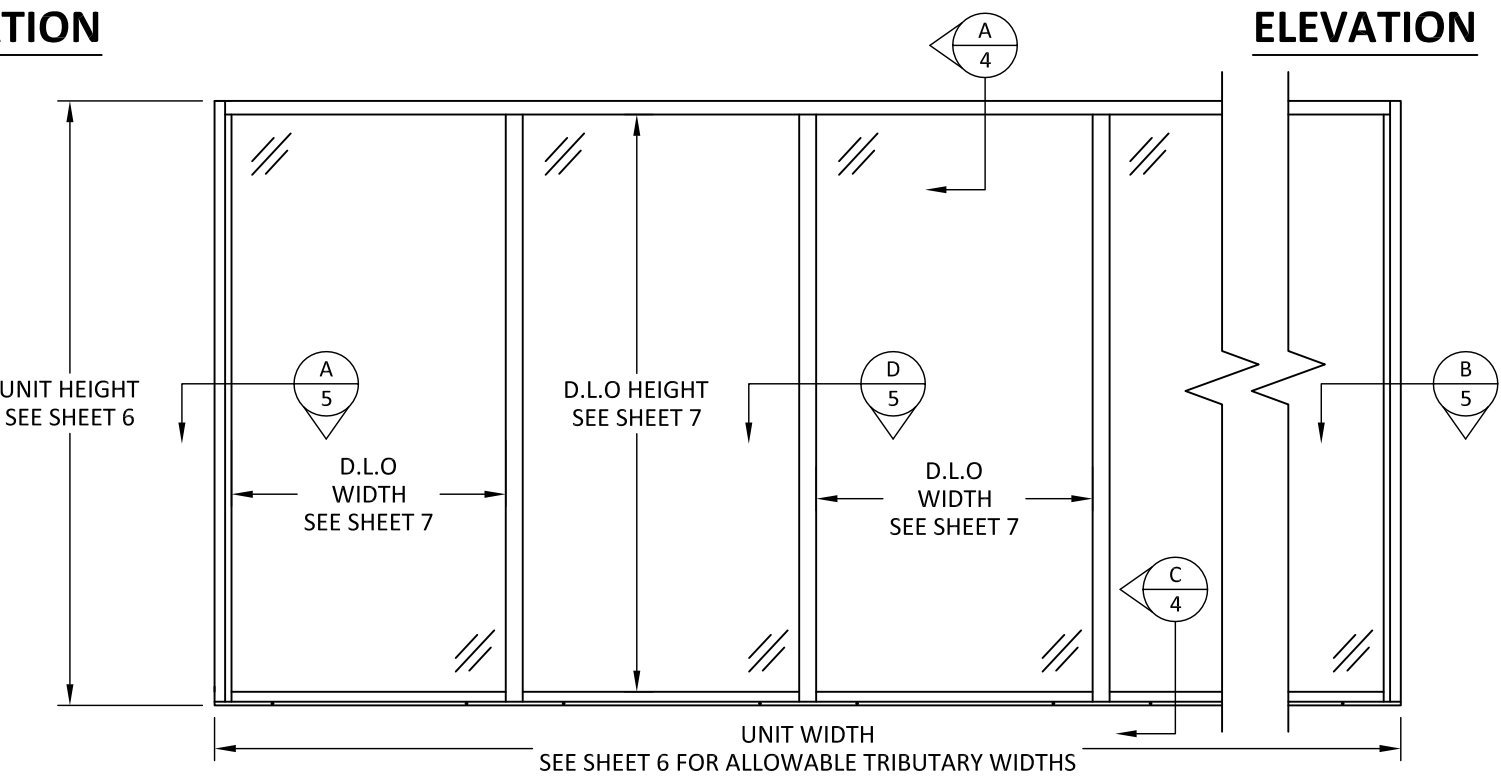
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**ELEVATION**



**ELEVATION**



**ELEVATION**



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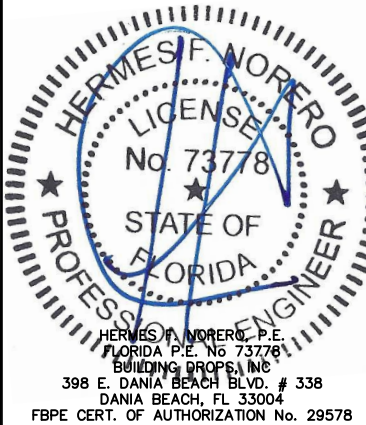
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(WZ3)/(IMPACT)  
ELEVATION

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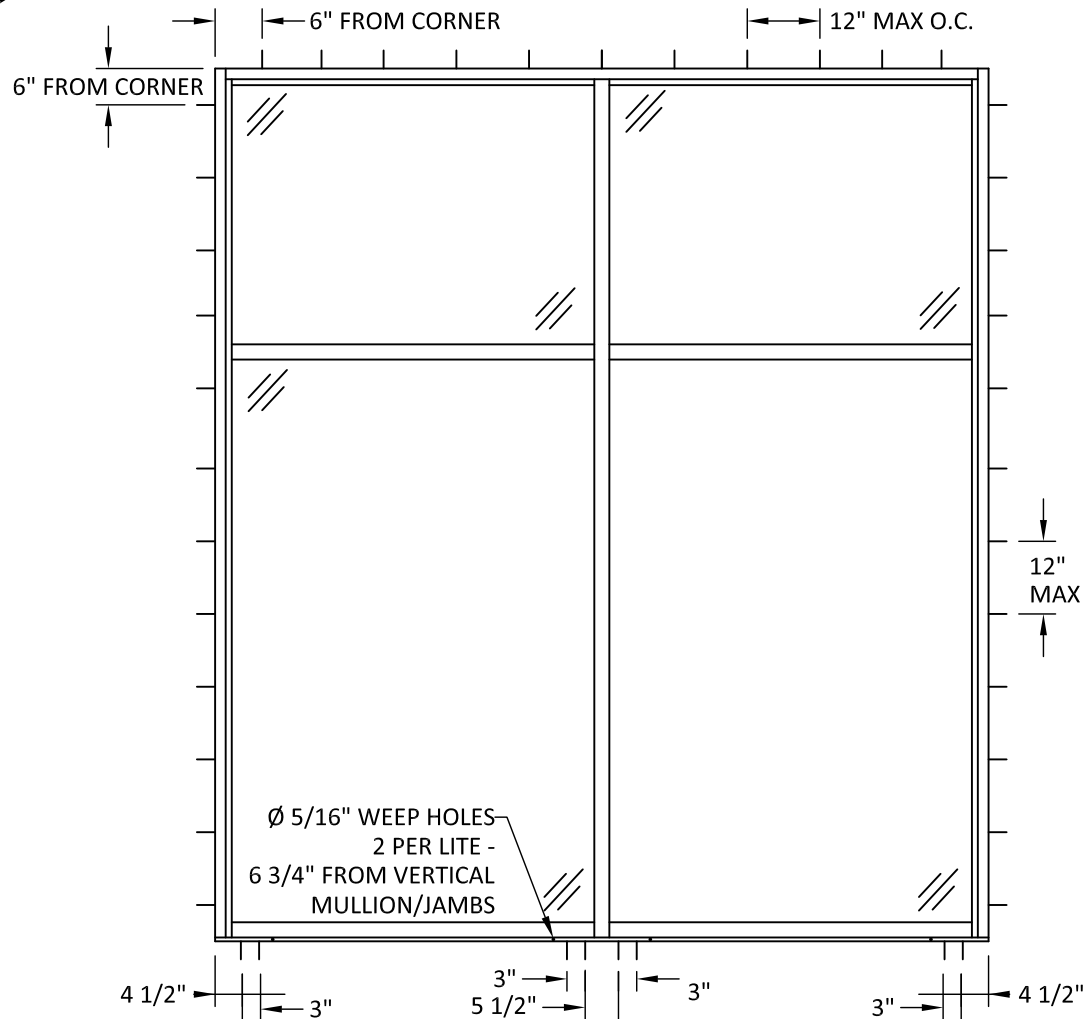
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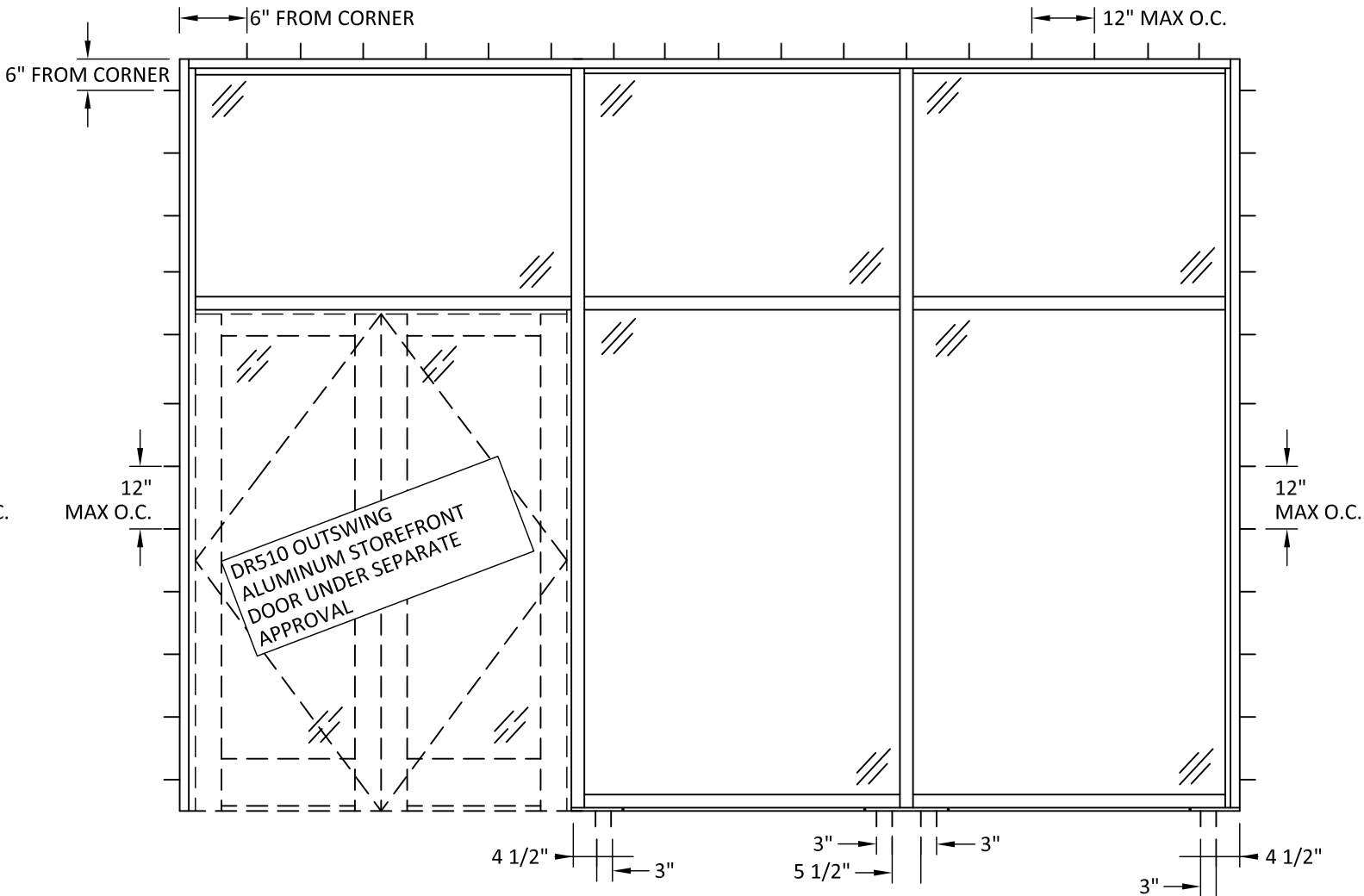
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| FL #:    | <b>FL40970</b>  |
| DATE:    | <b>06.29.21</b> |
| DWG. BY: | <b>LL</b>       |
| CHK. BY: | <b>HFN</b>      |
| SCALE:   | <b>NTS</b>      |
| DWG. #:  | <b>CGM007</b>   |
| SHEET:   | <b>2</b>        |

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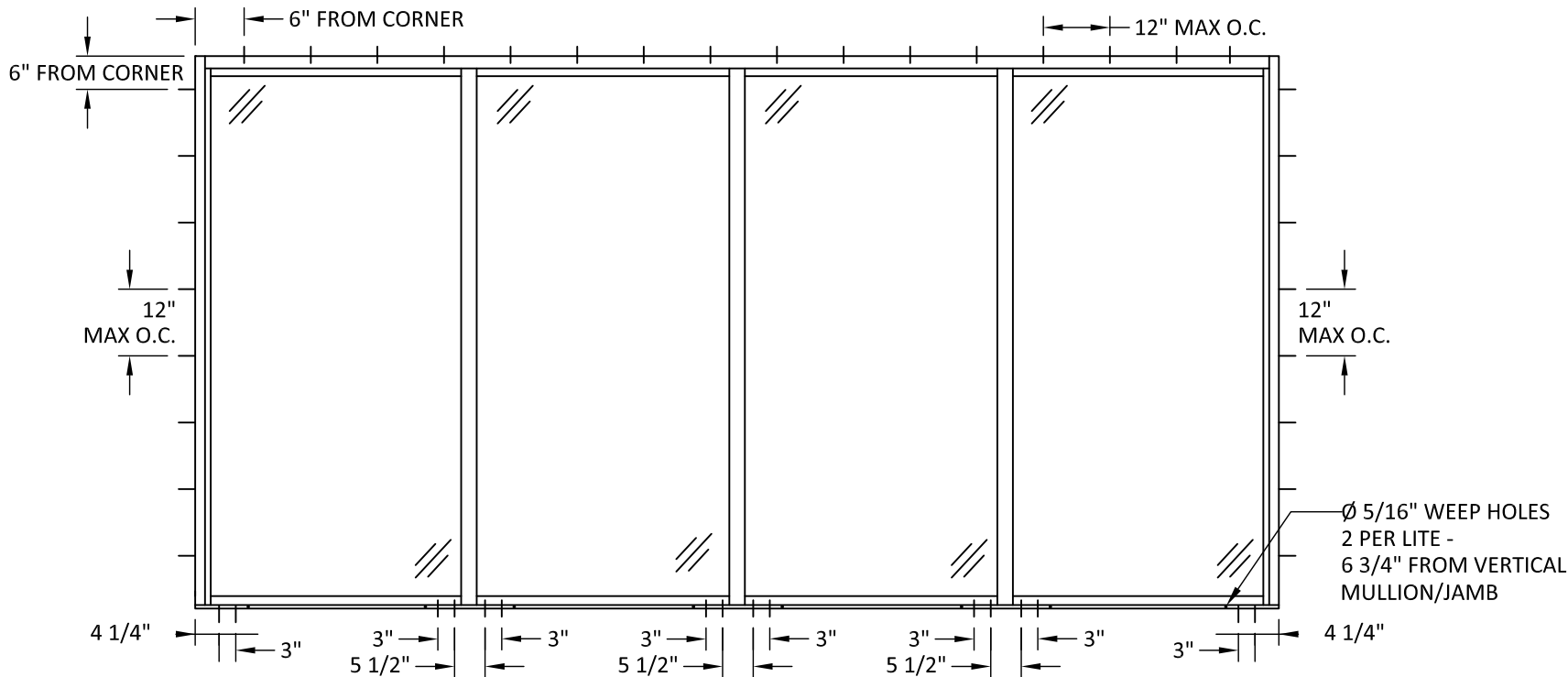
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ANCHOR LAYOUT



ANCHOR LAYOUT



ANCHOR LAYOUT



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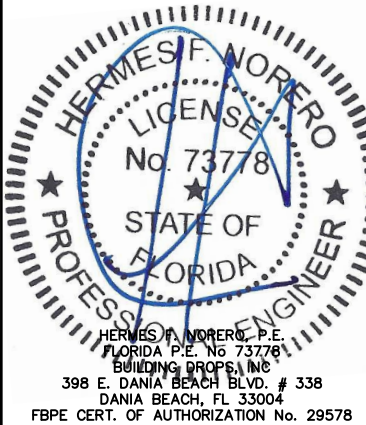
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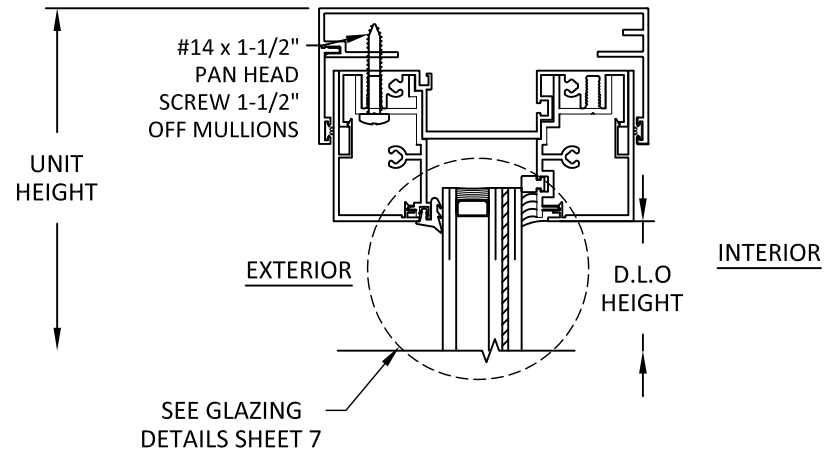
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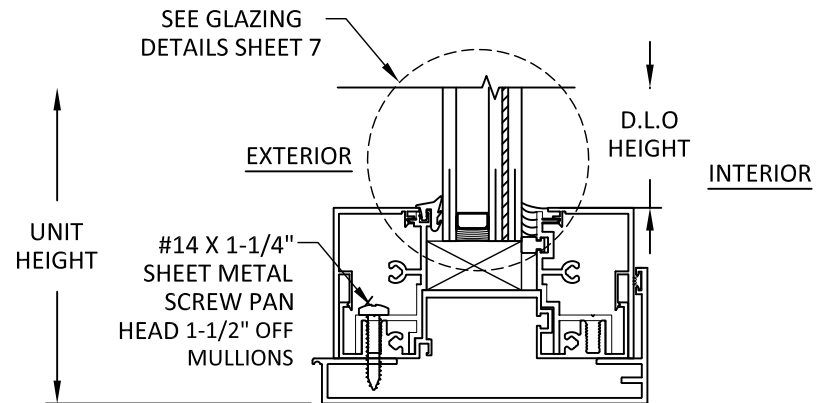
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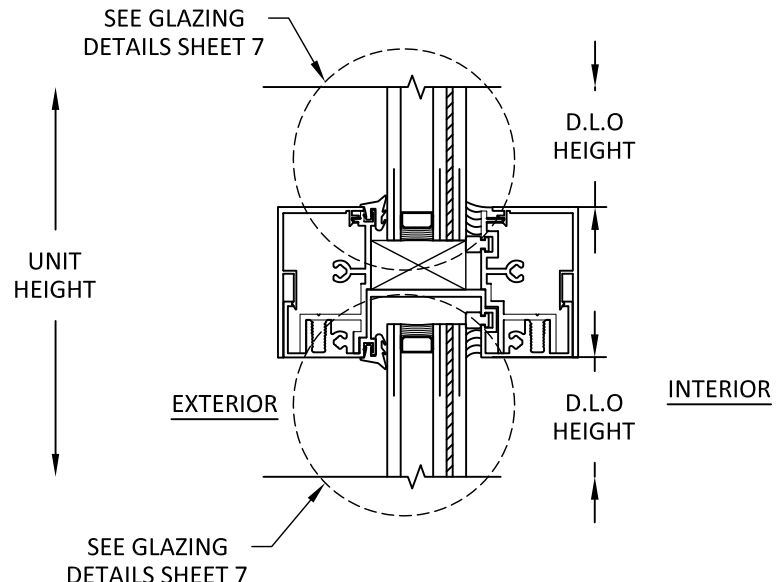
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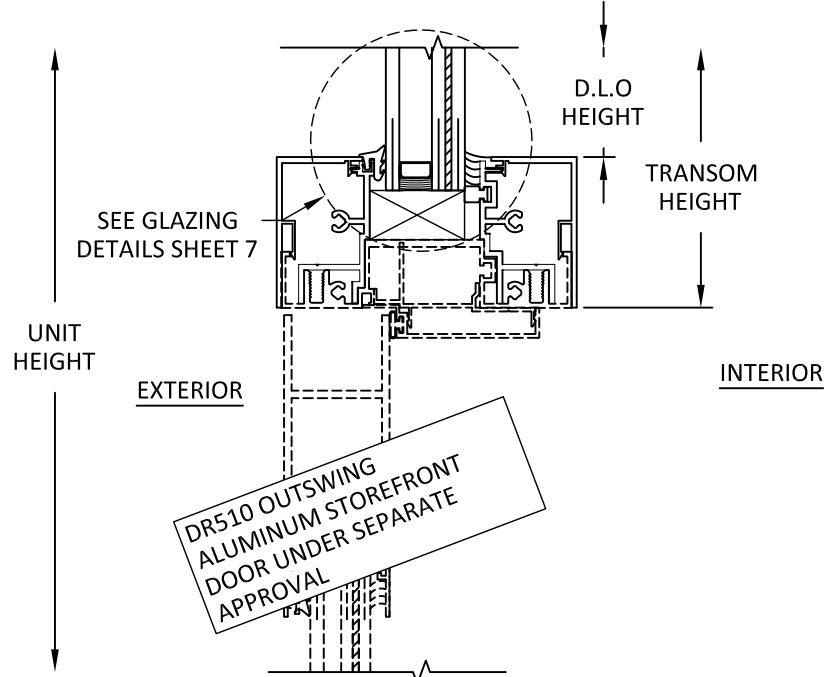
**A**  
**4** **VERTICAL SECTION**  
HEAD



**C**  
**4** **VERTICAL SECTION**  
SILL



**B**  
**4** **VERTICAL SECTION**  
HORIZONTAL MULLION



**D**  
**4** **VERTICAL SECTION**  
TRANSOM TO DOOR CONNECTION



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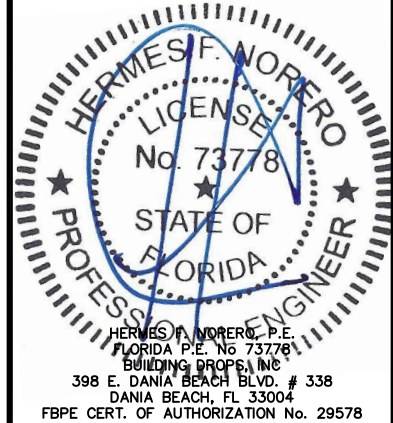
TITLE: CS5100 STOREFRONT SYSTEM  
(WZ3)/(IMPACT)  
VERTICAL SECTIONS

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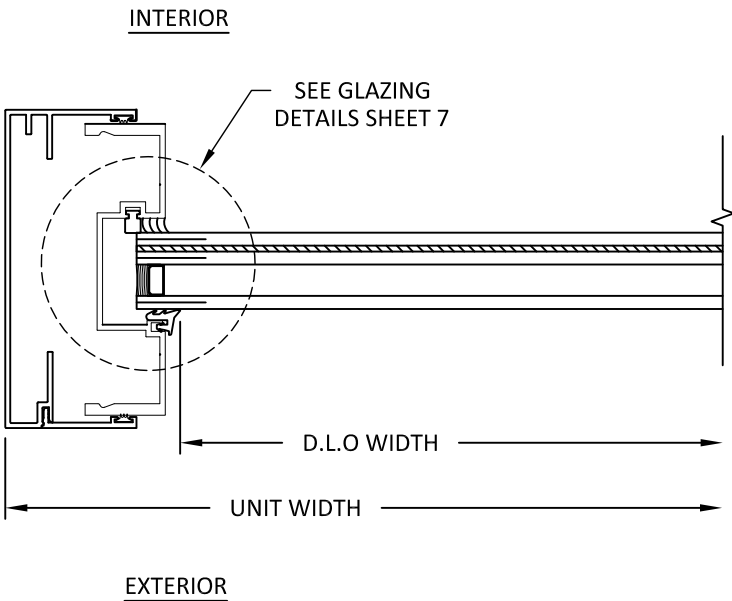
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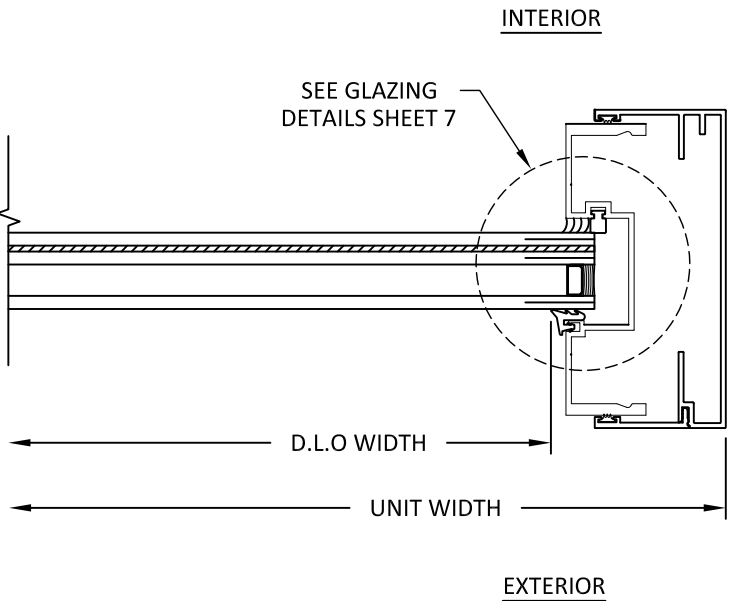


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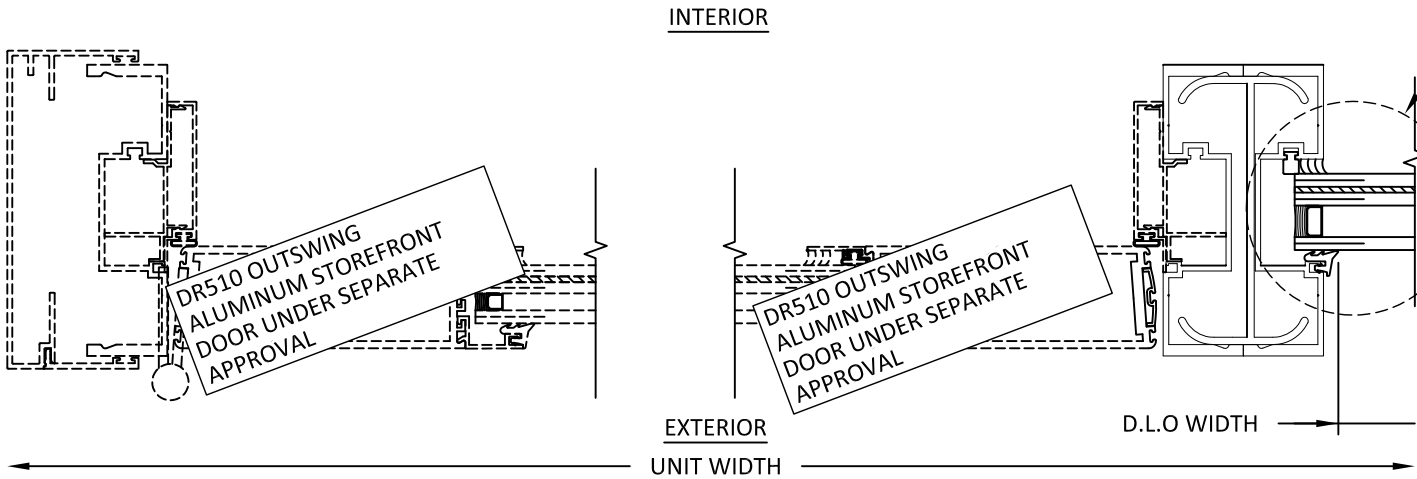
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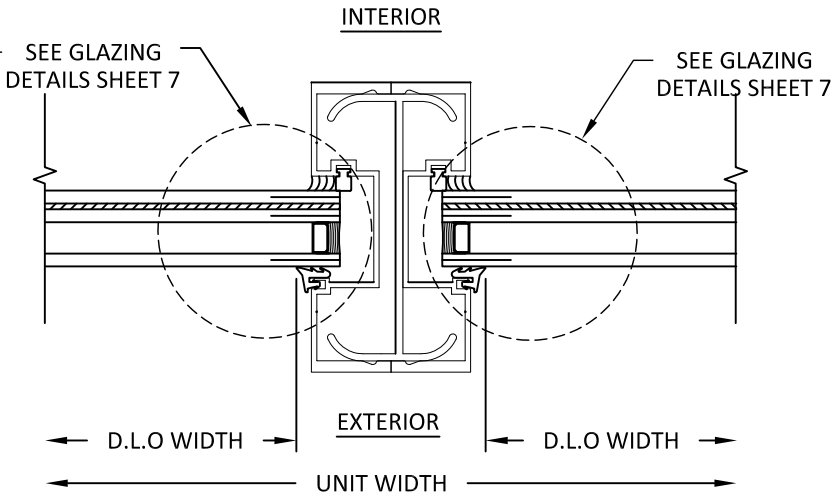
**A**  
**5** **HORIZONTAL SECTION**  
JAMB



**B**  
**5** **HORIZONTAL SECTION**  
JAMB



**C**  
**5** **HORIZONTAL SECTION**  
SIDELITE TO DOOR CONNECTION



**D**  
**5** **HORIZONTAL SECTION**  
VERTICAL MULLION



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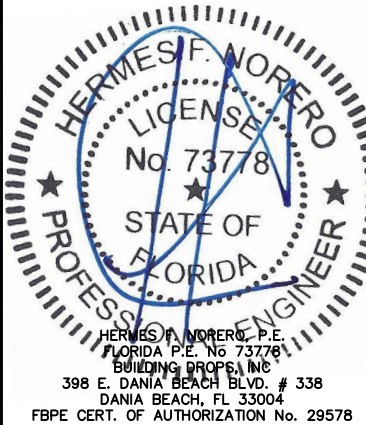
TITLE: CS5100 STOREFRONT SYSTEM  
(WZ3)/(IMPACT)  
HORIZONTAL SECTIONS

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SCALE: **NTS**

DWG. #: **CGM007**

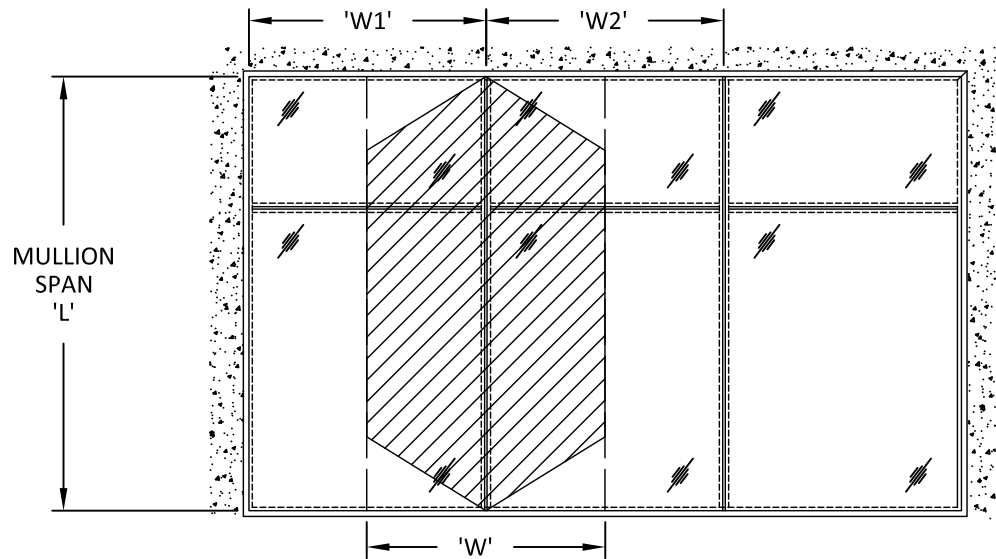
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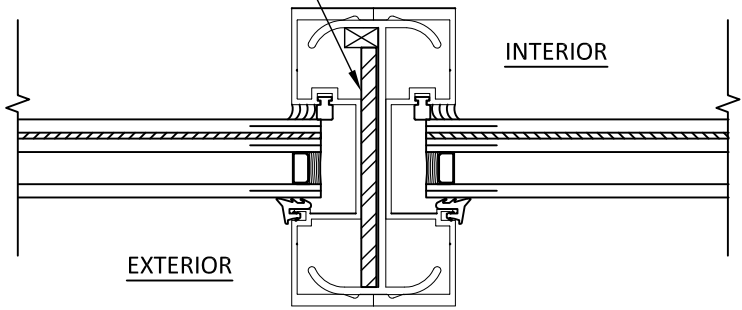
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TRIBUTARY WIDTH:  
$$W = \frac{W1 + W2}{2}$$

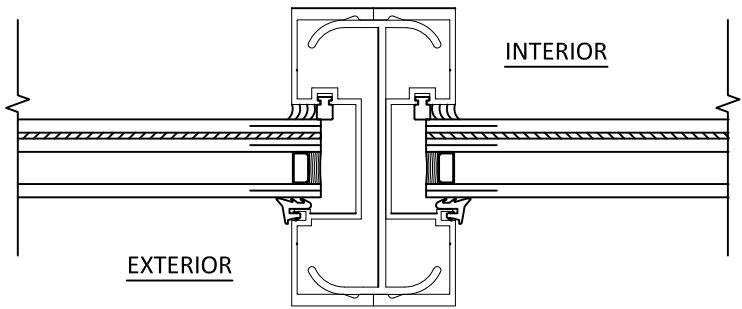
OPTIONAL 1/4" X 4" A36 STEEL BAR



**A**  
**6**

**VERTICAL MULLION**

WITH 1/4" X 4" A36 STEEL REINFORCEMENT



**B**  
**6**

**VERTICAL MULLION**

WITHOUT STEEL REINFORCEMENT

| DESIGN PRESSURE TABLE (PSF) FOR DETAIL A/6 |      |      |      |      |      |      |      |      |
|--------------------------------------------|------|------|------|------|------|------|------|------|
| TRIBUTARY WIDTH "W" (INCHES)               |      |      |      |      |      |      |      |      |
| MULLION SPAN "L" (INCHES)                  |      | 42   | 48   | 54   | 62   | 66   | 72   | 78   |
|                                            | 114  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 |
|                                            | 120  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | -    |
|                                            | 126  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | -    | -    |
|                                            | 132  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | -    | -    |
|                                            | 138  | 55.0 | 55.0 | 55.0 | 55.0 | -    | -    | -    |
|                                            | 144  | 55.0 | 55.0 | 55.0 | 55.0 | -    | -    | -    |
|                                            | 150  | 55.0 | 55.0 | 54.6 | -    | -    | -    | -    |
| 156                                        | 55.0 | 53.8 | 48.3 | -    | -    | -    | -    | -    |

| DESIGN PRESSURE TABLE (PSF) FOR DETAIL B/6 |      |      |      |      |      |      |      |      |
|--------------------------------------------|------|------|------|------|------|------|------|------|
| TRIBUTARY WIDTH "W" (INCHES)               |      |      |      |      |      |      |      |      |
| MULLION SPAN "L" (INCHES)                  |      | 42   | 48   | 54   | 62   | 66   | 72   | 78   |
|                                            | 114  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 53.1 |
|                                            | 120  | 55.0 | 55.0 | 55.0 | 55.0 | 54.1 | 51.3 | -    |
|                                            | 126  | 55.0 | 55.0 | 55.0 | 52.7 | 50.6 | -    | -    |
|                                            | 132  | 55.0 | 55.0 | 54.7 | 49.6 | 47.5 | -    | -    |
|                                            | 138  | 55.0 | 55.0 | 51.8 | 46.8 | -    | -    | -    |
|                                            | 144  | 55.0 | 53.9 | 49.1 | 44.3 | -    | -    | -    |
|                                            | 150  | 55.0 | 48.9 | 44.0 | -    | -    | -    | -    |
| 156                                        | 49.1 | 43.4 | 38.9 | -    | -    | -    | -    | -    |



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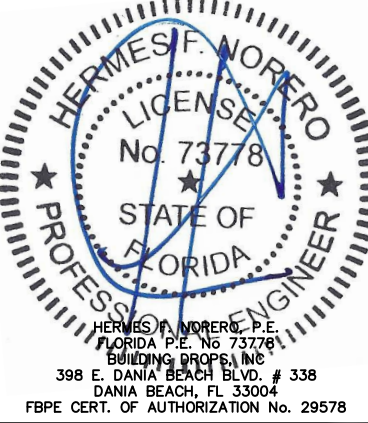
TITLE: CS5100 STOREFRONT SYSTEM  
(WZ3)/(IMPACT)  
VERTICAL MULLION AND DESIGN  
PRESSURE TABLES

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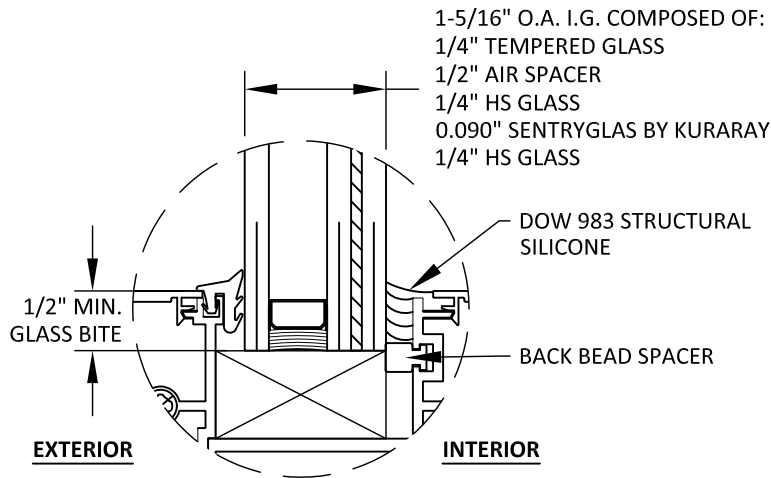


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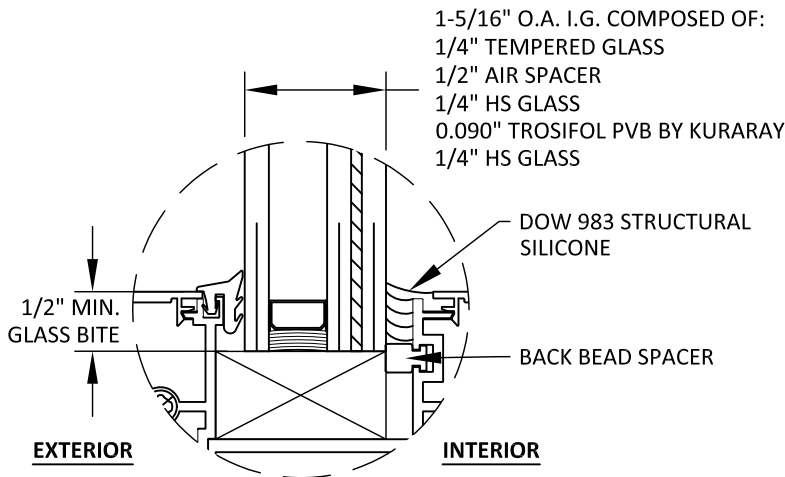
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| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | CGM007   |
| SHEET:   | 6        |



GLAZING DETAIL 1



GLAZING DETAIL 2

GLAZING NOTES:

- GLASS TYPE AND THICKNESS COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.

DESIGN PRESSURE TABLE (PSF) FOR GLAZING DETAIL 1

| D.L.O WIDTH (INCHES)  |        |        |        |        |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D.L.O HEIGHT (INCHES) |        | 35.875 | 41.875 | 47.875 | 53.875 | 59.875 | 65.875 | 71.875 | 77.875 |
|                       | 68.75  | 55.0   | 55.0   | 55.0   | 55.0   | 55.0   | 50.0   | 45.8   | 42.3   |
|                       | 74.75  | 55.0   | 55.0   | 55.0   | 55.0   | 55.0   | 50.0   | 45.8   | -      |
|                       | 80.75  | 55.0   | 55.0   | 55.0   | 55.0   | 55.0   | 50.0   | -      | -      |
|                       | 86.75  | 55.0   | 55.0   | 55.0   | 55.0   | 55.0   | -      | -      | -      |
|                       | 92.75  | 55.0   | 55.0   | 55.0   | 55.0   | 55.0   | -      | -      | -      |
|                       | 98.75  | 55.0   | 55.0   | 55.0   | 55.0   | -      | -      | -      | -      |
|                       | 104.75 | 55.0   | 55.0   | 55.0   | -      | -      | -      | -      | -      |
|                       | 110.75 | 55.0   | 55.0   | 55.0   | -      | -      | -      | -      | -      |
|                       | 116.75 | 55.0   | 55.0   | -      | -      | -      | -      | -      | -      |
|                       | 122.75 | 55.0   | 55.0   | -      | -      | -      | -      | -      | -      |
|                       | 128.75 | 55.0   | 55.0   | -      | -      | -      | -      | -      | -      |
|                       | 134.75 | 55.0   | -      | -      | -      | -      | -      | -      | -      |
|                       | 140.75 | 55.0   | -      | -      | -      | -      | -      | -      | -      |
|                       | 146.75 | 55.0   | -      | -      | -      | -      | -      | -      | -      |
|                       | 152.75 | 55.0   | -      | -      | -      | -      | -      | -      | -      |

DESIGN PRESSURE TABLE (PSF) FOR GLAZING DETAIL 2

| D.L.O WIDTH (INCHES)  |        |      |      |      |      |      |      |      |      |      |      |
|-----------------------|--------|------|------|------|------|------|------|------|------|------|------|
| D.L.O HEIGHT (INCHES) |        | 21.5 | 27.5 | 33.5 | 39.5 | 45.5 | 51.5 | 57.5 | 63.5 | 69.5 | 75.5 |
|                       | 50.25  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 48.6 | 43.5 | 39.4 | 36.0 | 33.1 |
|                       | 56.25  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 48.6 | 43.5 | 39.4 | 36.0 | -    |
|                       | 62.25  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 48.6 | 43.5 | 39.4 | -    | -    |
|                       | 68.25  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 48.6 | 43.5 | -    | -    | -    |
|                       | 74.25  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 48.6 | -    | -    | -    | -    |
|                       | 80.25  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 48.6 | -    | -    | -    | -    |
|                       | 86.25  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | -    | -    | -    | -    | -    |
|                       | 92.25  | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | -    | -    | -    | -    | -    |
|                       | 98.25  | 55.0 | 55.0 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    |
|                       | 104.25 | 55.0 | 55.0 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    |
|                       | 110.25 | 55.0 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    | -    |
|                       | 116.25 | 55.0 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    | -    |
|                       | 122.25 | 55.0 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    | -    |
|                       | 128.25 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    | -    | -    |
|                       | 134.25 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    | -    | -    |
|                       | 140.25 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    | -    | -    |
|                       | 146.25 | 55.0 | 55.0 | -    | -    | -    | -    | -    | -    | -    | -    |
|                       | 152.25 | 55.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    |



2650 GANDY BLVD NORTH.  
ST. PETERSBURG, FL 33702  
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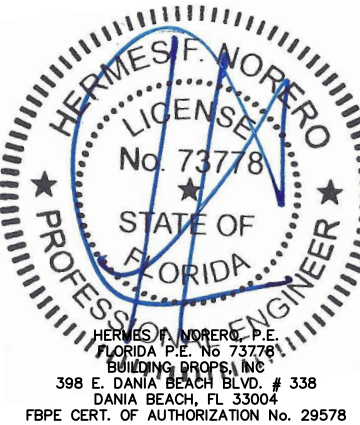
TITLE: CS5100 STOREFRONT SYSTEM (WZ3)/(IMPACT)  
GLAZING DETAILS AND DESIGN PRESSURE TABLES

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
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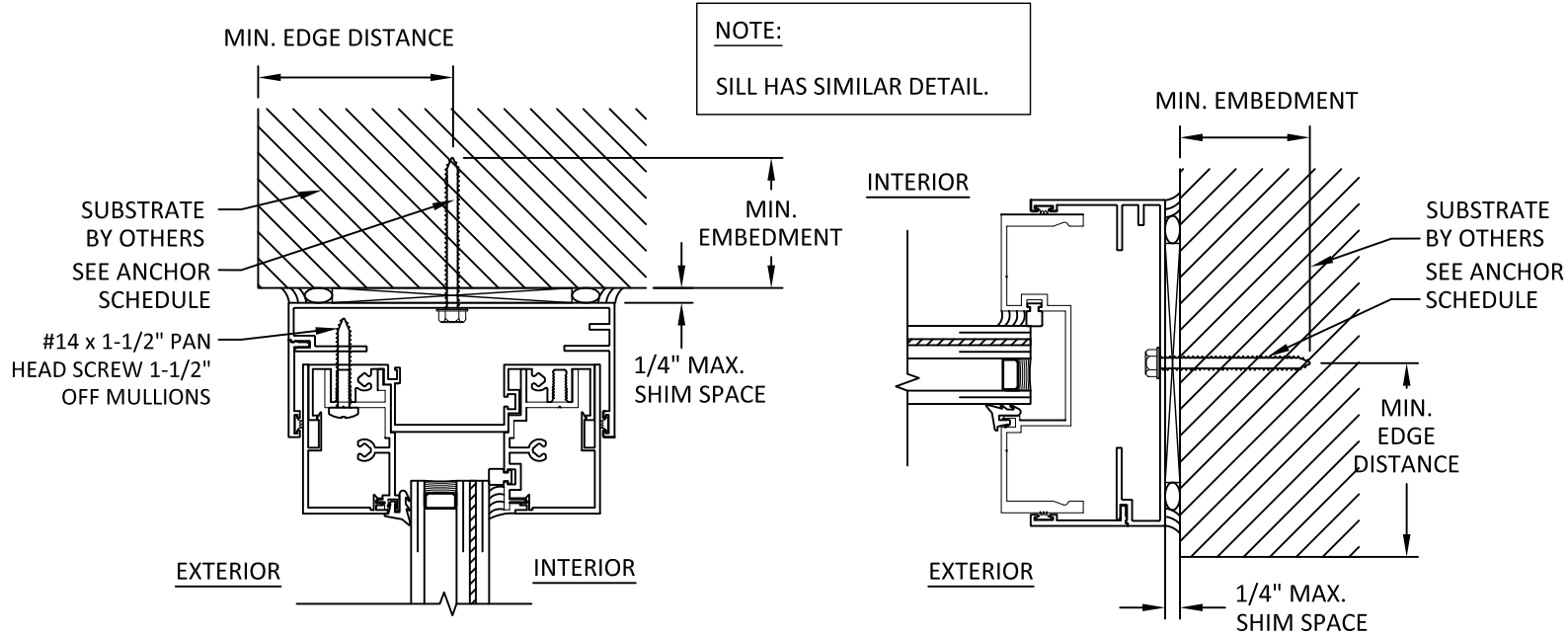


| REMARKS  | BY | DATE  |
|----------|----|-------|
| PVB EDIT | CA | 06/22 |
|          |    |       |
|          |    |       |
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THE INSTALLATION DETAILS DESCRIBED HERE IN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



|          |          |
|----------|----------|
| FL #:    | FL40970  |
| DATE:    | 06.29.21 |
| DWG. BY: | LL       |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | CGM007   |
| SHEET:   | 7        |



A  
8

ANCHOR DETAIL  
THROUGH FRAME INSTALLATION

B  
8

ANCHOR DETAIL  
THROUGH FRAME INSTALLATION

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF  $\pm 1/2$  INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAX. ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 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 BY THE ANCHOR MANUFACTURER.

| ANCHOR SCHEDULE |               |                                                  |                                                                                  |                                        |                    |
|-----------------|---------------|--------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------|--------------------|
| TYPE            | METHOD        | ANCHOR                                           | SUBSTRATE                                                                        | MIN. EMBEDMENT                         | MIN. EDGE DISTANCE |
| A               | THROUGH FRAME | 1/4" DEWALT ULTRACON (CARBON OR STAINLESS STEEL) | 2X WOOD MIN. S.G.=0.55                                                           | 1.50"                                  | 1.00"              |
| B               |               | 1/4" GR. 5 SELF-TAPPING/DRILLING SCREW           | METAL: 1/8 THCK. STEEL (MIN. $F_y = 33$ KSI), OR AL 6063-T5 (MIN $F_y = 35$ KSI) | 3 THREADS MIN PENETRATION BEYOND METAL | 1.00"              |
| C               |               | 1/4" DEWALT ULTRACON (CARBON OR STAINLESS STEEL) | 3000 PSI CONCRETE MIN.                                                           | 1.75"                                  | 2.50"              |



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TITLE: CS5100 STOREFRONT SYSTEM (WZ3)/(IMPACT)

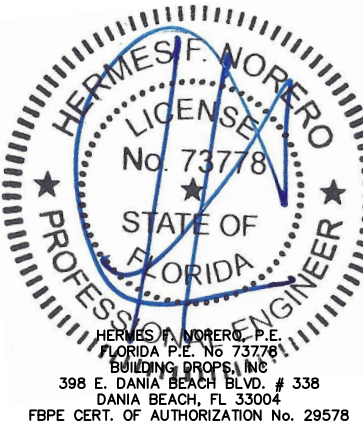
ANCHOR NOTES, DETAILS, AND SCHEDULE

PREPARED BY: BUILDING DROPS, INC.

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8