

PH38 SLIDING GLASS DOOR - THREE PANEL  
LARGE MISSILE IMPACT APPROVED, MISSILE LEVEL D, WIND ZONE 4  
FOR USE INSIDE OR OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL RESIDENTIAL CODE (IRC), AND FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY OR 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE FOR WIND ZONE 4 OR LESS OR WITHIN THE HVHZ.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
  - 5.1. X: OPERABLE PANEL
  - 5.2. O: FIXED PANEL
- QUALIFIED CONFIGURATIONS INCLUDE: OXX, XXO, OXO, XXX.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK SHALL BE AS SHOWN IN INSTALLATION DETAILS. 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, AND SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- FOR 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.
- FOR 2X STUD CONSTRUCTION, ANCHORING OF THESE PRODUCTS SHALL BE THE SAME AS FOR 2X BUCK CONCRETE/MASONRY CONSTRUCTION.
- FOR INSTALLATION INTO 2X WOOD BUCK OR WOOD FRAMING, USE (2) #10 HH WOOD SCREWS PER LOCATION.
  - 7.1. MIN. EMBEDMENT = 1-1/2"
  - 7.2. MIN. EDGE DISTANCE = 3/4"
- FOR INSTALLATION INTO METAL STUD FRAMING, USE (2) #10 HWH GR. 5 SELF-DRILLING OR SELF-TAPPING SCREWS PER LOCATION.
  - 8.1. MIN. 3 THREADS PENETRATION BEYOND METAL SUBSTRATE
  - 8.2. MIN. EDGE DISTANCE = 3/4"
- FOR INSTALLATION DIRECT TO CONCRETE OR GROUT FILLED MASONRY OR WHERE A 1X WOOD BUCK IS EMPLOYED AND FASTENED THROUGH TO CONCRETE OR GROUT FILLED MASONRY, USE (2) 3/16" ELCO ULTRACONS PER LOCATION.
  - 9.1. MIN. EMBEDMENT = 1-1/4" WHEN INTO CONCRETE, 2-1/4" WHEN INTO GROUT FILLED CMU
  - 9.2. MIN. EDGE DISTANCE = 1" WHEN INTO CONCRETE, 2" WHEN INTO GROUT FILLED CMU
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
- SEE SHEETS 4 & 5 FOR MORE DETAILS OF THE INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS, EDGE DISTANCES, EMBEDMENTS, AND SHIM SPACING.

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| 6                 | BILL OF MATERIALS & COMPONENTS                          |

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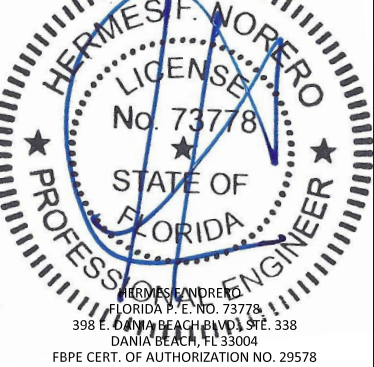
TITLE: PH 38 SLIDING GLASS DOOR -  
THREE PANEL  
(HVHZ/IMPACT)  
GENERAL NOTES &  
INSTALLATION NOTES

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Reason: I am approving this document  
Date: 2021.08.13 07:06:21 -04'00'



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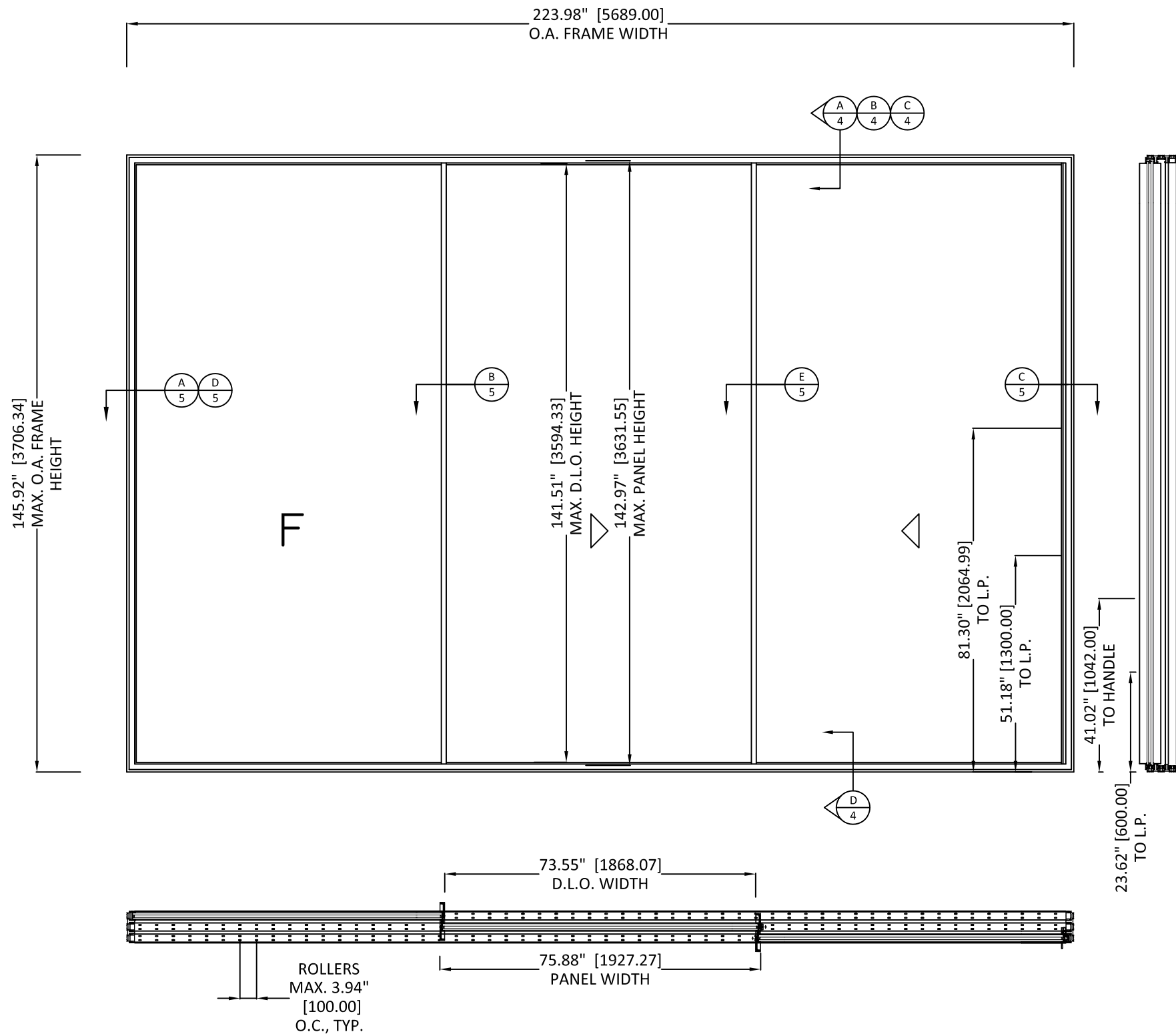
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CHK. BY: HFN

SCALE: NTS

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SHEET: OF 6



**A**  
**2** **TYP. ELEVATION**  
3 RAIL DOOR

| ALLOWABLE DESIGN PRESSURE TABLE |        |                       |         |
|---------------------------------|--------|-----------------------|---------|
| NOM. MODULE SIZE                |        | DESIGN PRESSURE (PSF) |         |
| W                               | H      | POS (+)               | NEG (-) |
| 72                              | 108    | 45.0                  | 50.0    |
| 74.66                           | 108    | 45.0                  | 50.0    |
| 78                              | 108    | 45.0                  | 50.0    |
| 84                              | 108    | 45.0                  | 50.0    |
| 90                              | 108    | 44.8                  | 50.0    |
| 96                              | 108    | 42.0                  | 47.3    |
| 72                              | 120    | 45.0                  | 50.0    |
| 74.66                           | 120    | 45.0                  | 50.0    |
| 78                              | 120    | 45.0                  | 50.0    |
| 84                              | 120    | 43.2                  | 48.6    |
| 90                              | 120    | 40.3                  | 45.4    |
| 72                              | 126    | 45.0                  | 50.0    |
| 74.66                           | 126    | 45.0                  | 50.0    |
| 78                              | 126    | 44.3                  | 49.9    |
| 84                              | 126    | 41.2                  | 46.3    |
| 72                              | 132    | 45.0                  | 50.0    |
| 74.66                           | 132    | 44.2                  | 49.7    |
| 78                              | 132    | 42.3                  | 47.6    |
| 66                              | 138    | 45.0                  | 50.0    |
| 72                              | 138    | 43.9                  | 49.3    |
| 74.66                           | 138    | 42.3                  | 47.6    |
| 78                              | 138    | 40.5                  | 45.5    |
| 60                              | 145.92 | 45.0                  | 50.0    |
| 66                              | 145.92 | 43.5                  | 49.0    |
| 72                              | 145.92 | 41.0                  | 46.1    |
| 74.66                           | 145.92 | 40.0                  | 45.0    |

- DESIGN PRESSURE TABLE NOTES
- DESIGN PRESSURES HEREIN HAVE BEEN DETERMINED IN ACCORDANCE WITH FBC SECTION 1709.5.1.
  - DESIGN PRESSURES SHALL BE COMPARED TO WIND LOADS AT THE JOBSITE IN QUESTION. WIND LOADS SHALL BE DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BUILDING CODE. WIND LOADS MAY BE MULTIPLIED BY A FACTOR OF 0.6 FOR CONVERSION TO ALLOWABLE STRENGTH DESIGN (ASD).
  - NOMINAL MODULE WITH SHALL BE DETERMINED AS FOLLOWS:  
3.1. NOMINAL WIDTH, W = OVERALL FRAME WIDTH / # OF PANELS  
3.2. NOMINAL HEIGHT, H = OVERALL FRAME HEIGHT
  - ABBREVIATION, L.P. = LOCK POINTS FOR 3 POINT 'MUSHROOM' HEAD LOCKING DEVICE.
  - REFER TO SHEET 1, GENERAL NOTE 6 FOR QUALIFIED CONFIGURATIONS.



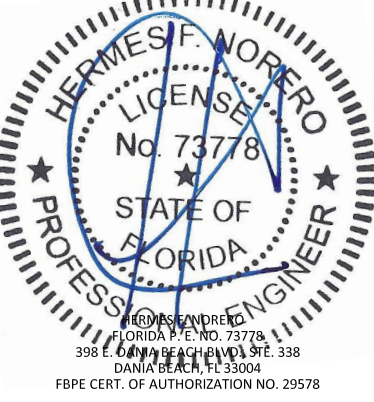
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TITLE: PH 38 SLIDING GLASS DOOR -  
THREE PANEL  
(HVHZ/IMPACT)  
TYPICAL ELEVATION & DESIGN  
PRESSURE TABLES.

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FBPE CERT. OF AUTHORIZATION NO. 29578

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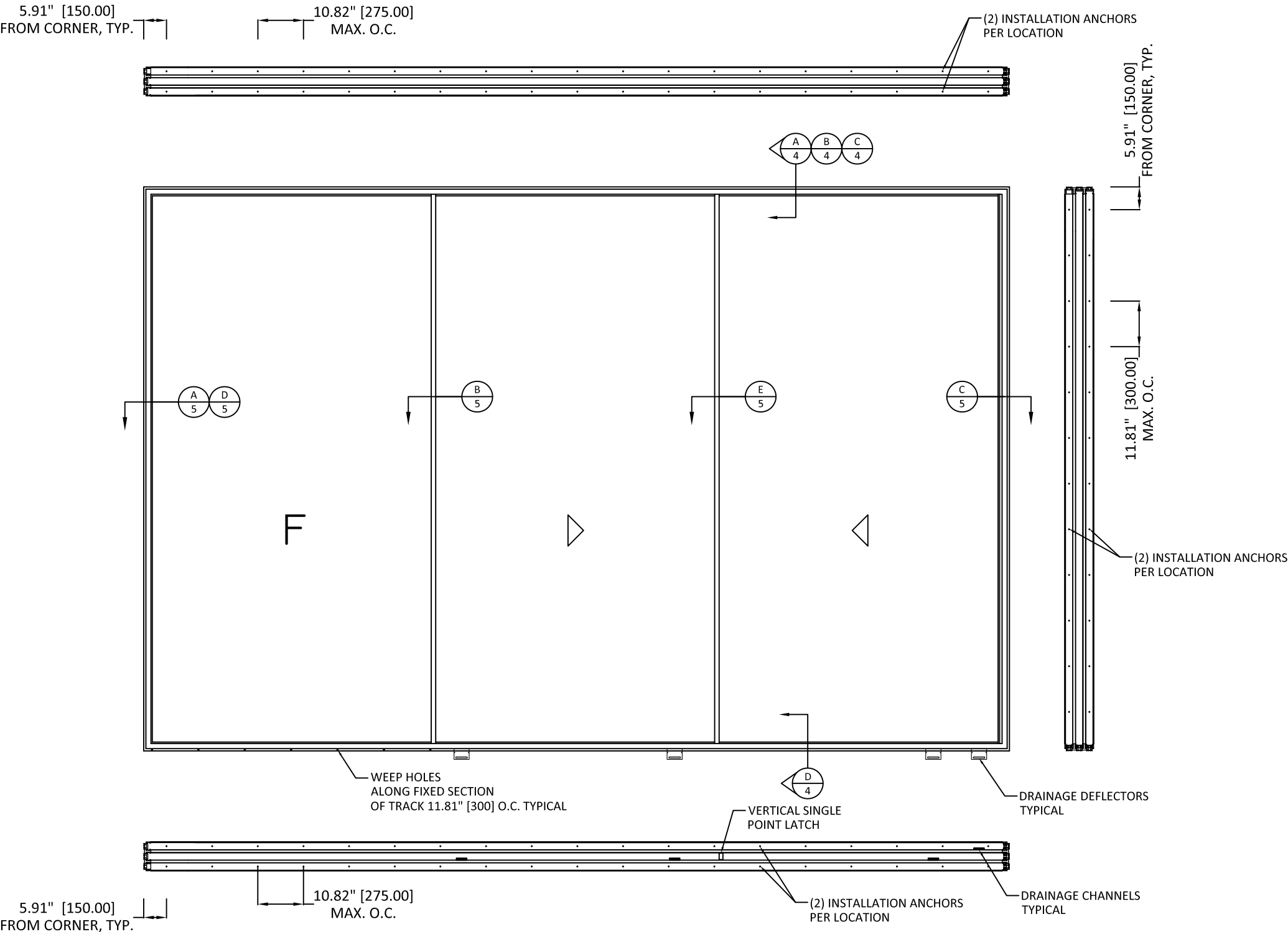
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2



**A**  
**3** **ANCHOR LAYOUT**  
3 RAIL DOOR  
DRAINAGE LOCATIONS

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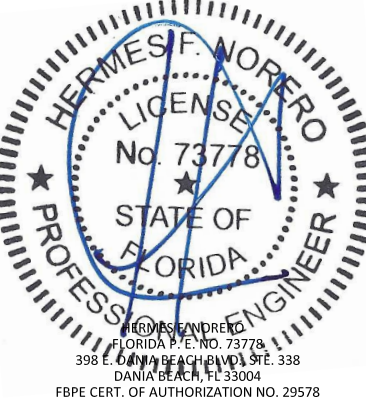
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TYPICAL ANCHOR & DRAINAGE  
LAYOUT

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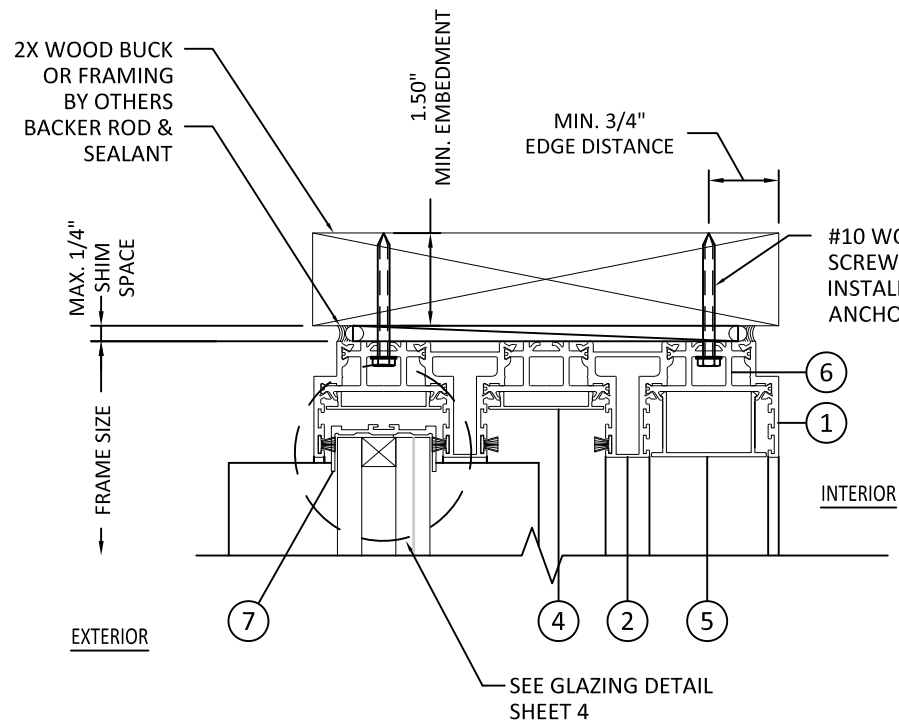
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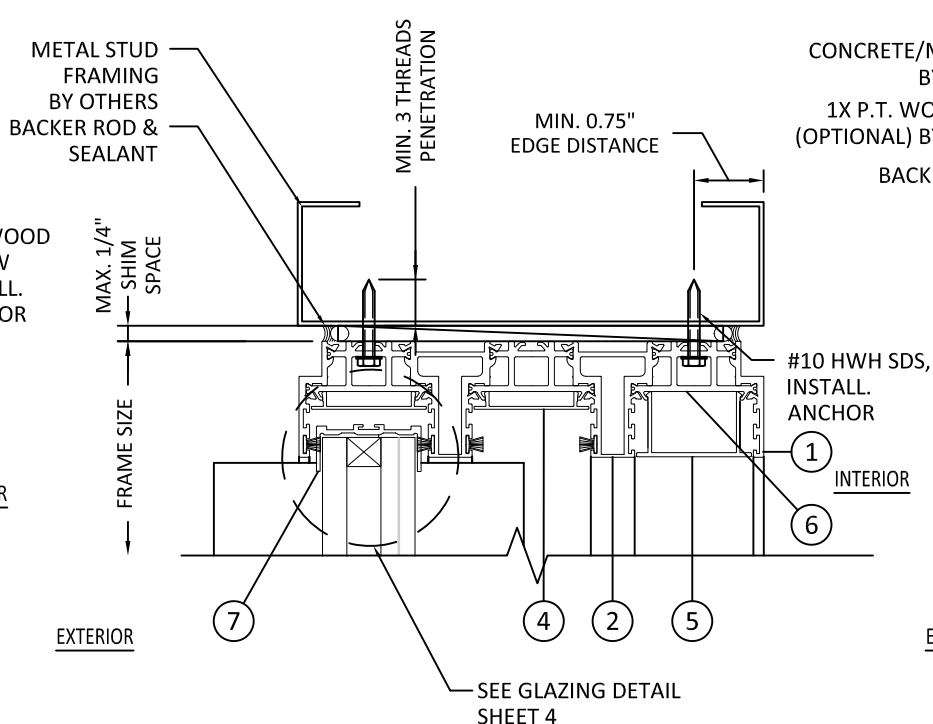
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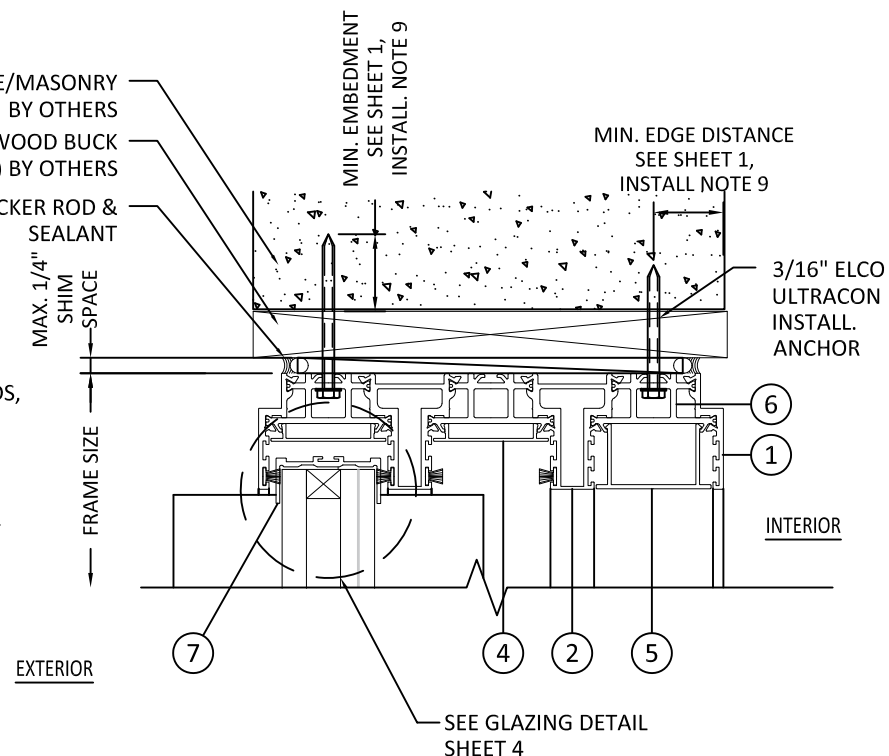
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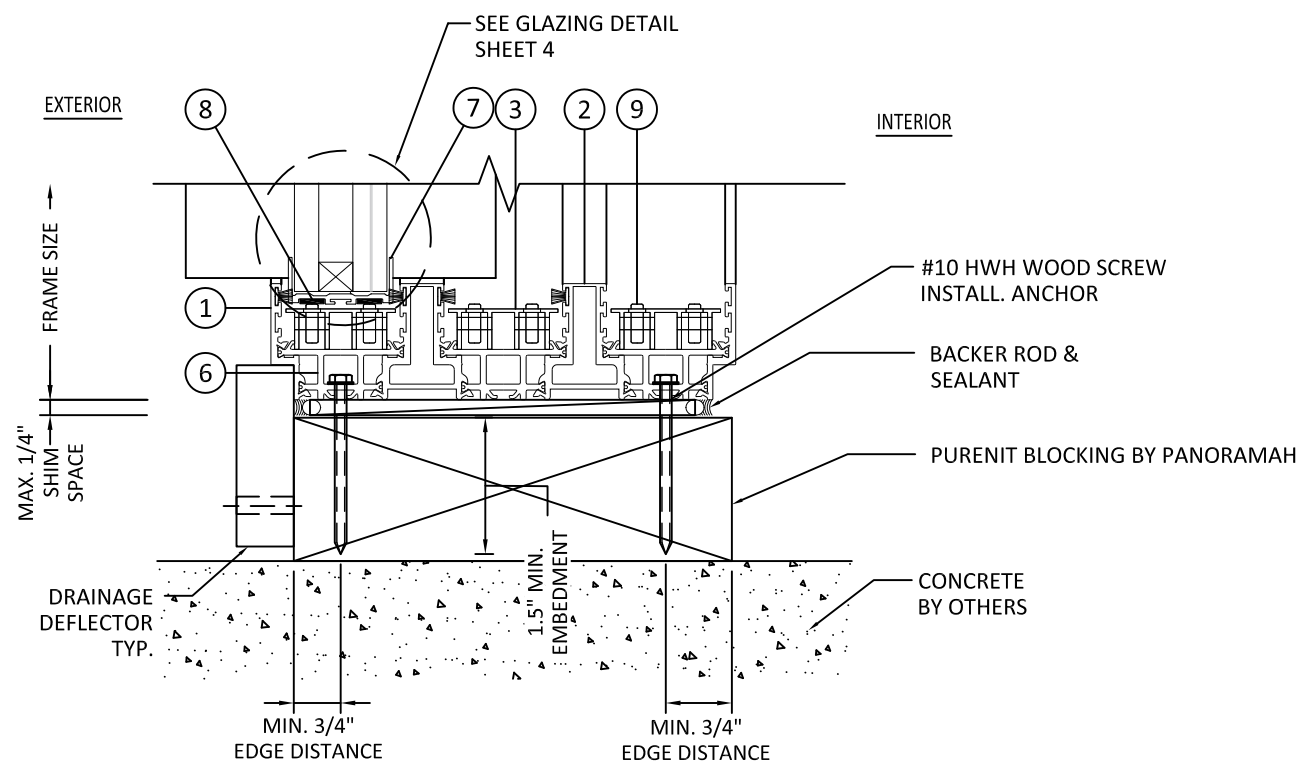
**A**  
**4** **VERTICAL SECTION**  
OPERABLE HEAD - TYP. INSTALL  
2X WOOD FRAMING



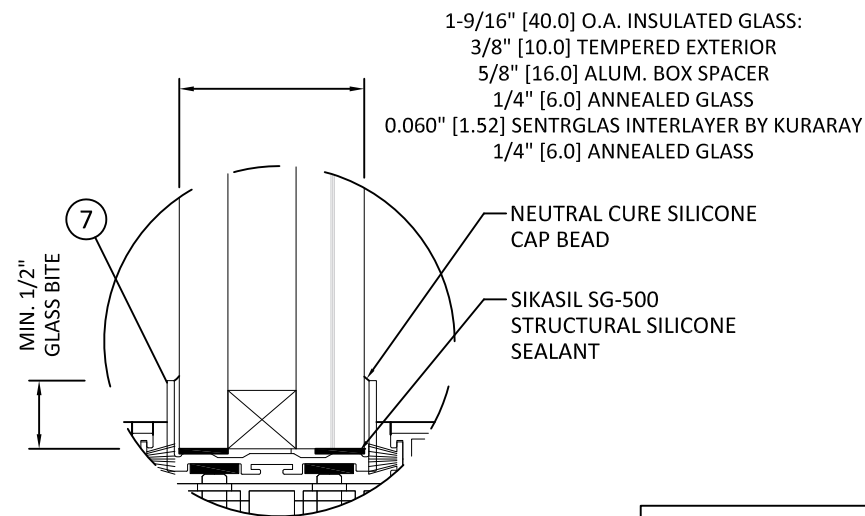
**B**  
**4** **VERTICAL SECTION**  
OPERABLE HEAD - TYP. INSTALL  
METAL STUD



**C**  
**4** **VERTICAL SECTION**  
OPERABLE HEAD - TYP. INSTALL  
1X (OPTIONAL) TO CONCRETE/MASONRY



**D**  
**4** **VERTICAL SECTION**  
OPERABLE SILL - TYP. INSTALL  
STRUCTURAL BLOCKING - CONCRETE SLAB



**GLAZING DETAIL**

- GLAZING NOTES:**
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
  - 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.
  - SIZES AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN SIZE CHARTS ON SHEET 2.

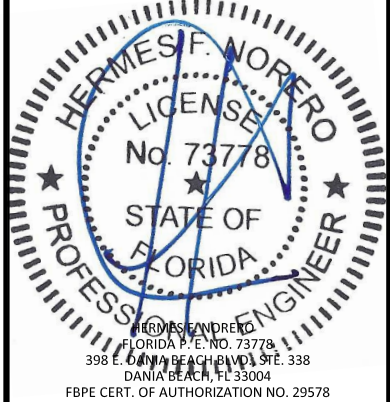
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VERTICAL SECTION INSTALLATION  
DETAILS & GLAZING DETAILS

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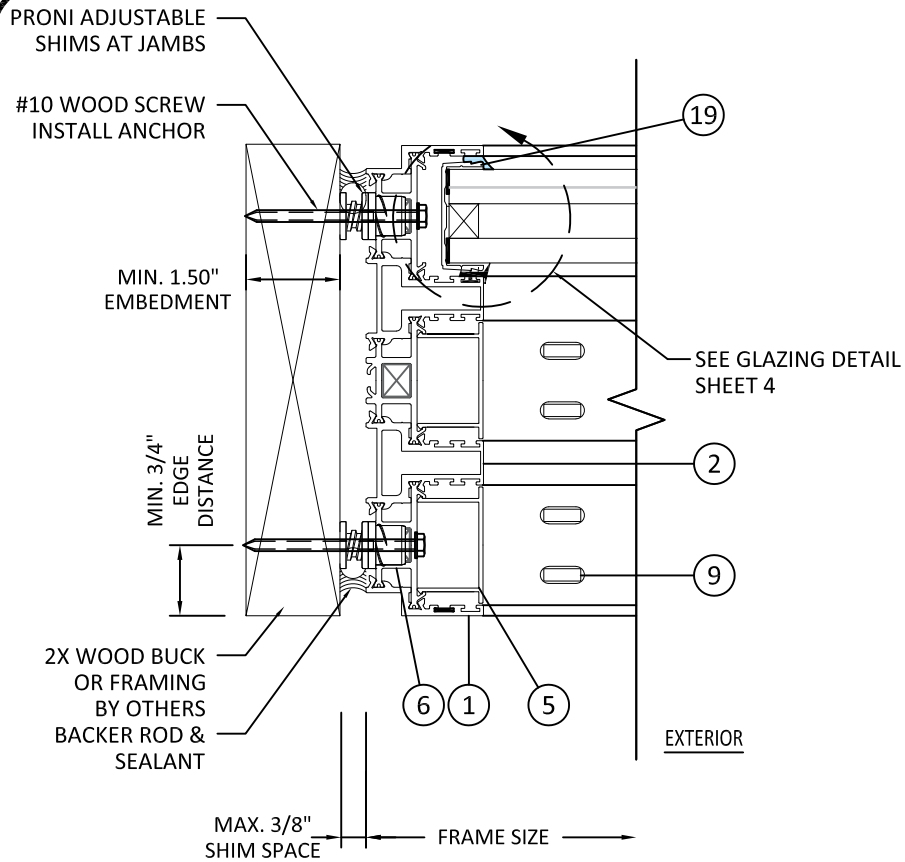
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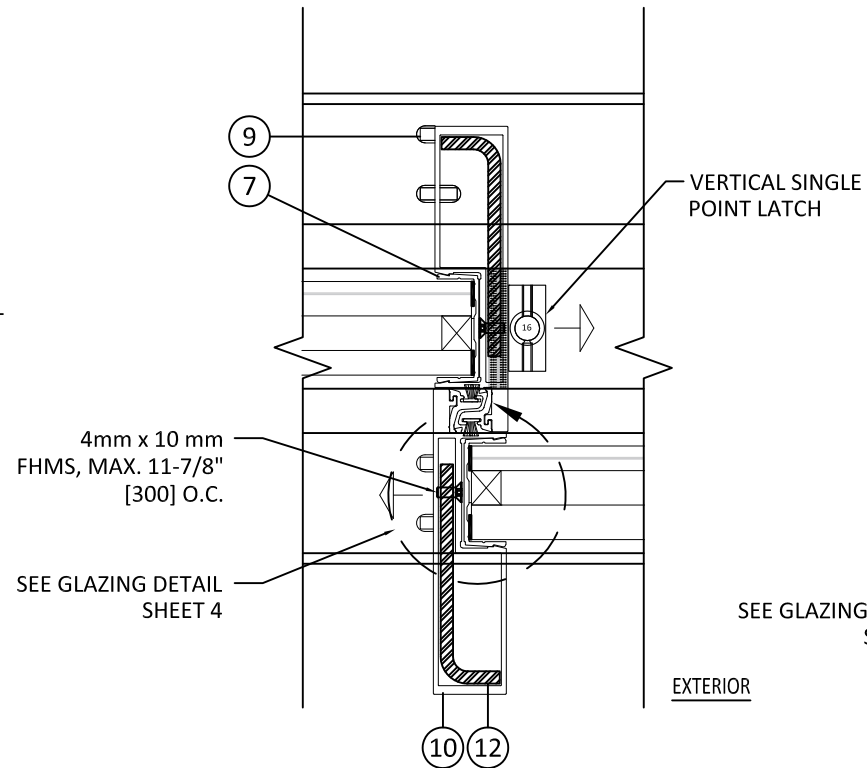


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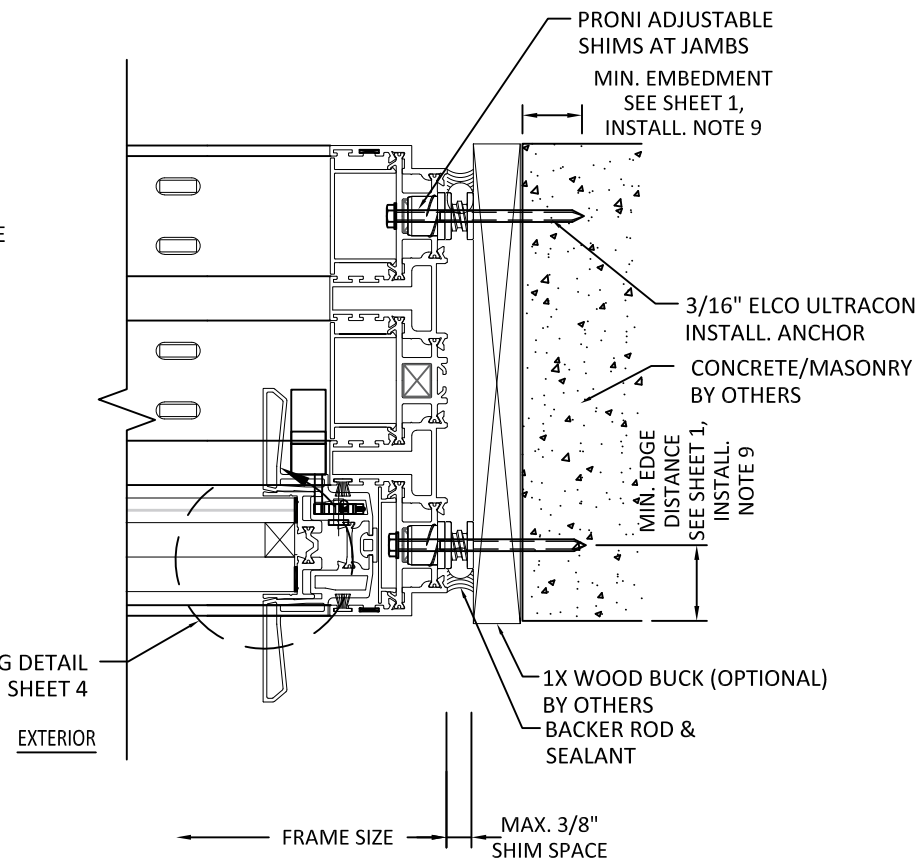
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| MSS      | HFN      |
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| DWG. #:  | PAN001   |
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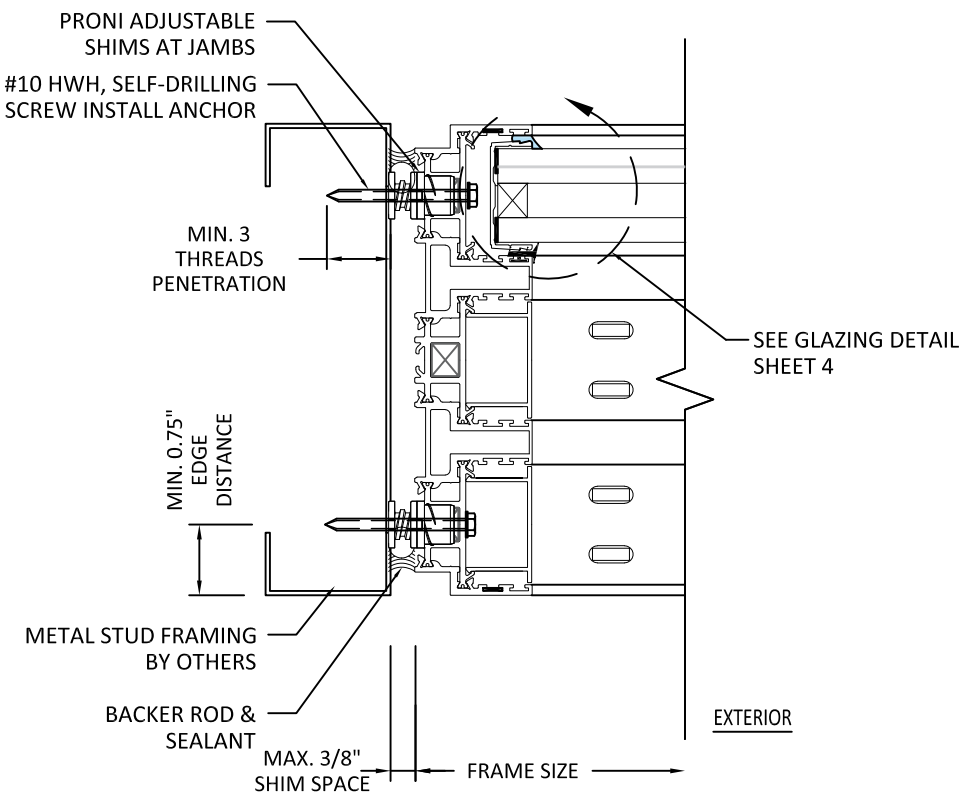
**A**  
**5** **HORIZONTAL SECTION**  
**FIXED JAMB - TYP. INSTALLATION**  
**2X WOOD FRAME**



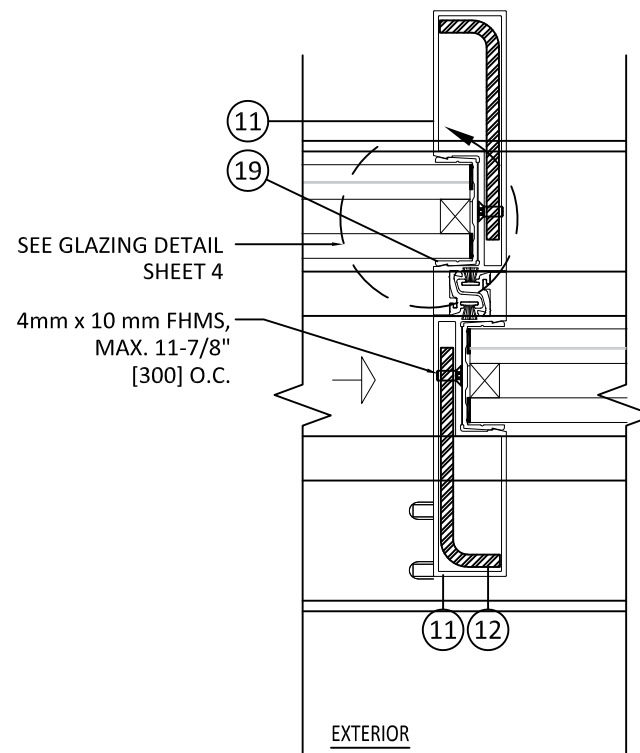
**B**  
**5** **HORIZONTAL SECTION**  
**INTERLOCK - TYPICAL**



**C**  
**5** **HORIZONTAL SECTION**  
**INTERLOCK - TYPICAL**  
**1X WOOD BUCK TO CONC/MASONRY**



**D**  
**5** **HORIZONTAL SECTION**  
**FIXED JAMB - TYP. INSTALLATION**  
**METAL STUD FRAME**



**E**  
**5** **HORIZONTAL SECTION**  
**BI-PARTING INTERLOCK**

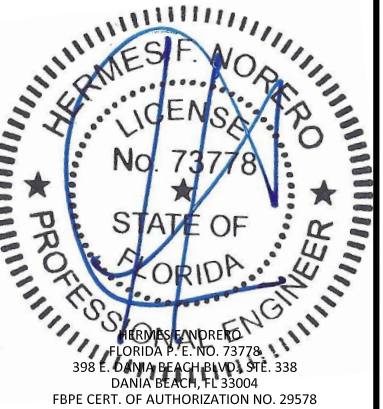
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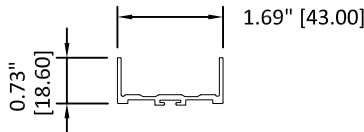


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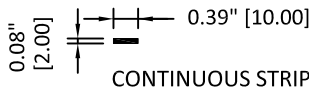
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| SHEET:   | OF 6     |

| BILL OF MATERIALS |                                  |                      |
|-------------------|----------------------------------|----------------------|
| ITEM#             | DESCRIPTION                      | MATERIAL             |
| 1                 | OUTER FRAME COMPONENT            | 6063-T5 ALUMINUM     |
| 2                 | INNER FRAME COMPONENT            | 6063-T5 ALUMINUM     |
| 3                 | ROLLER TRACK INFILL              | 6063-T5 ALUMINUM     |
| 4                 | OPERABLE TRACK INFILL            | 6063-T5 ALUMINUM     |
| 5                 | FIXED TRACK INFILL & JAMB INFILL | 6063-T5 ALUMINUM     |
| 6                 | FRAME THERMAL STRUT              | POLYAMIDE            |
| 7                 | PANEL RAIL/STILE                 | 6063-T5 ALUMINUM     |
| 8                 | RAIL ROLLER REINFORCING          | BRASS                |
| 9                 | CASTERS                          | AISI 304/316 & BRASS |
| 10                | INTERLOCK                        | 6063-T5 ALUMINUM     |
| 11                | BI-PARTING INTERLOCK             | 6063-T5 ALUMINUM     |
| 12                | INTERLOCK REINFORCEMENT          | AISI 304 SS          |
| 13                | INTERLOCK CLIP                   | POLYAMIDE            |
| 14                | OUTER LOCK STILE W/ HANDLE       | 6063-T5 ALUMINUM     |
| 15                | LOCK STILE                       | 6063-T5 ALUMINUM     |
| 16                | LOCK STILE STRUT 1               | POLYAMIDE            |
| 17                | LOCK STILE STRUT 2               | POLYAMIDE            |
| 18                | LOCK STILE STOPPER               | POLYAMIDE            |
| 19                | GLAZING CHANNEL                  | 6063-T5 ALUMINUM     |

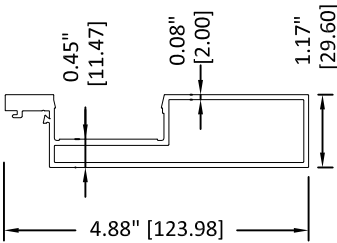
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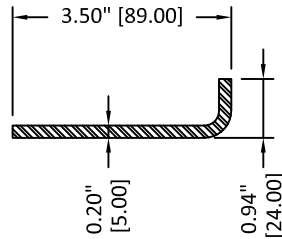
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BRASS



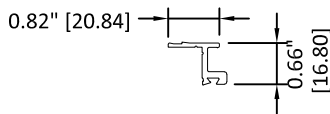
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6063-T5 ALUMINUM



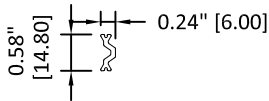
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AISI 304 SS



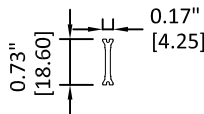
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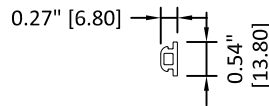
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POLYAMIDE



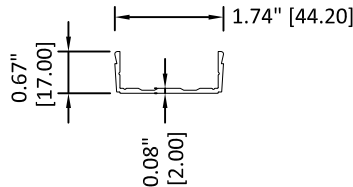
17 LOCK STILE STRUT 2  
POLYAMIDE



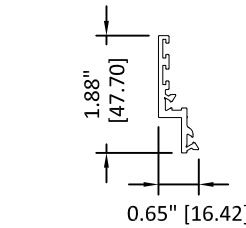
18 LOCK STILE STOPPER  
POLYAMIDE



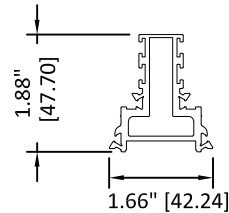
19 GLAZING CHANNEL  
6063-T5 ALUMINUM



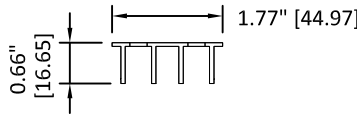
1 OUTER FRAME COMPONENT  
6063-T5 ALUMINUM



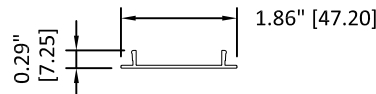
2 INNER FRAME COMPONENT  
6063-T5 ALUMINUM



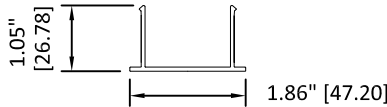
3 ROLLER TRACK INFILL  
6063-T5 ALUMINUM



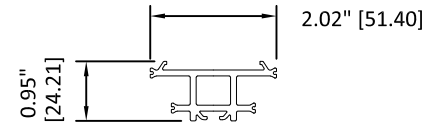
4 OPERABLE TRACK INFILL  
6063-T5 ALUMINUM



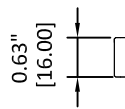
5 FIXED TRACK INFILL & JAMB INFILL  
6063-T5 ALUMINUM



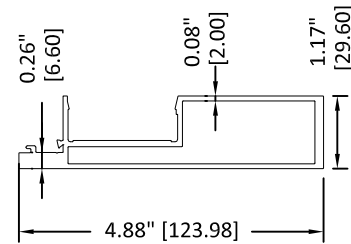
6 FRAME THERMAL STRUT  
POLYAMIDE



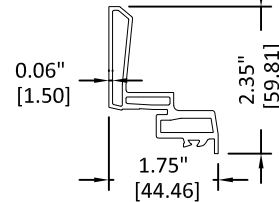
9 CASTERS  
AISI 304/316 & BRASS



10 INTERLOCK  
6063-T5 ALUMINUM



14 OUTER LOCK STILE W/ HANDLE  
6063-T5 ALUMINUM



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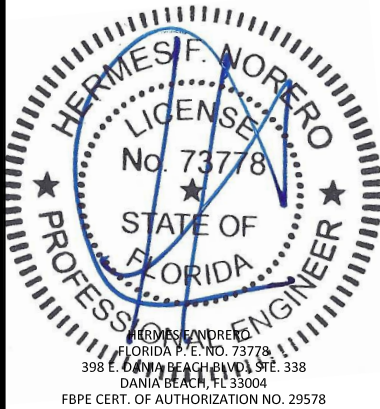
TITLE: PH 38 SLIDING GLASS DOOR -  
THREE PANEL  
(HVHZ/IMPACT)  
B.O.M. & COMPONENTS

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



| REMARKS         | BY | DATE  |
|-----------------|----|-------|
| FBC CODE UPDATE | SM | 03/19 |
| 2020 FBC UPDATE | LL | 07/21 |
|                 |    |       |
|                 |    |       |

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.



FL21091

|          |          |
|----------|----------|
| DATE:    | 02.28.20 |
| DWG. BY: | CHK. BY: |
| MSS      | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | PAN001   |
| SHEET:   | OF 6     |

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