

FRAME WITH SIDELITES AND TRANSOM FOR USE WITH  
18 GAUGE STEEL DOORS  
(NON-HVHZ)(NON-IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- 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 ±1/16 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.
- FOR INSTALLATION INFORMATION AND ANCHOR LAYOUTS REFER TO SHEET 2.
- 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 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.
- STEEL COMPONENTS SHALL BE COATED OR PROVIDED WITH CORROSION RESISTANCE PROTECTION IN CONFORMANCE WITH THE MATERIAL PROTECTION PROVISIONS OF FBC SECTION 2220.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - GROUT-FILLED CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 & GROUT CONFORMS TO ASTM C 476. GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, EXCLUDING HVHZ, AND HAS BEEN EVALUATED TO THE FOLLOWING:
  - ASTM E283-04(12)
  - ASTM E330-14
  - ASTM E331-00(09)
  - AAMA 501-15
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL STUD 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.
- 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.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC 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 REQUIRED** TO PROTECT SYSTEM IN AREAS REQUIRING IMPACT PROTECTION.
- FRAME MATERIAL:  
REPUBLIC DOORS AND FRAMES - ME & SE SERIES: STEEL 16 GAUGE (0.053") MIN.  
STEELCRAFT MANUFACTURING: F & MU SERIES: STEEL 16 GAUGE (0.053") MIN.  
DOOR MATERIAL (UNDER SEPARATE APPROVAL): STEEL 18 GAUGE (0.042") MIN.
- ALTERNATE LOCKING AND OPERATING HARDWARE MAY BE USED SUCH THEY ARE CURRENTLY APPROVED UNDER A SEPARATE APPROVAL. INSTALLATION SHALL MAINTAIN THE MINIMUM REQUIREMENTS & LIMITATIONS OF USE OF THE SEPARATE COMPONENT APPROVAL AND THE DETAILS HEREIN. THE LESSER DESIGN PRESSURE AND RATING OF THE COMPONENT APPROVAL AND APPROVAL HEREIN SHALL GOVERN.

FRAME CONSTRUCTION:

THE FRAMES & MULLIONS ARE CONSTRUCTED FROM **16 GAUGE** (0.053" MIN. THICK) CRS, HRS, GLV, AND HAVE A DEPTH OF 5.75". THE CORNERS ARE MITERED KNOCK DOWN AND WELDED. THE FRAME CORNER REINFORCEMENTS ARE KNOCK DOWN WITH SLOT AND TAB TYPE CONSTRUCTION. THE DOOR FRAME HINGE REINFORCEMENTS ARE 1.5" X 9.19" AND ARE CONSTRUCTED OF **7 GAUGE** (0.167" MIN.) CRS. THE FRAME HEADER SLEEVE REINFORCEMENT IS **14 GAUGE** (0.072" MIN.) X 5.6875" X FULL LENGTH OF HEADER. THE BASE ANCHORS ARE 1.875" X 1.875" AND ARE CONSTRUCTED OF **16 GAUGE** (0.053" THICK MIN.) FORMED STEEL. THE MULLION REINFORCEMENTS ARE 5.750" X 0.750" X 120" C-CHANNELS CONSTRUCTED OF **16 GAUGE** (0.053" THICK MIN.) CRS, HRS, GLV, AND ARE FOR USE IN ALL MULLIONS GREATER THAN 4' IN LENGTH.

| TABLE OF CONTENTS |                                                      |
|-------------------|------------------------------------------------------|
| SHEET             | SHEET DESCRIPTION                                    |
| 1                 | INSTALLATION & GENERAL NOTES                         |
| 2                 | ELEVATION, ANCHOR LAYOUT, BOM & DETAILS              |
| 3                 | VERTICAL SECTIONS                                    |
| 4                 | HORIZONTAL SECTIONS                                  |
| 5                 | INSTALLATION, REINFORCEMENT, & GLAZING DETAILS       |
| 6                 | REPUBLIC MULLION DETAILS AND COMPONENTS              |
| 7                 | QUALIFIED CONFIGURATIONS & BOM                       |
| 8                 | STEELCRAFT MULLION DETAILS AND COMPONENTS            |
| 9                 | REPUBLIC & STEELCRAFT MULLION DETAILS AND COMPONENTS |

| DESIGN PRESSURE RATING FOR<br>STOREFRONT ASSEMBLY |                          |
|---------------------------------------------------|--------------------------|
| DESIGN PRESSURE                                   | MISSILE IMPACT<br>RATING |
| +50/-50 PSF*                                      | NON-IMPACT               |

\*DESIGN PRESSURE RATING APPLIES TO STOREFRONT TRANSOM AND SIDELITE FRAMING. DOORS UNDER SEPARATE APPROVAL SHALL BE GOVERNED BY SEPARATE RATING. LOWEST RATING OF BOTH PRODUCTS SHALL GOVERN ALLOWABLE DP RATING OF OVERALL ASSEMBLY.

Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2023.10.04 08:14:08 -04'00'

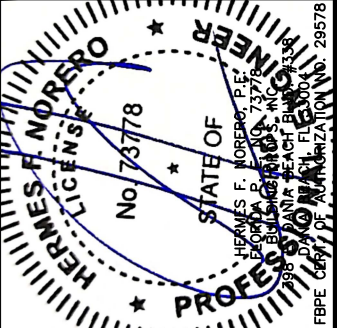
ALLEGION - SCHLAGE LOCK  
COMPANY, LLC

11819 N. PENNSYLVANIA ST  
CARMEL, IN 46032  
PH: (800) 799-3667 FX: (731) 352-2556

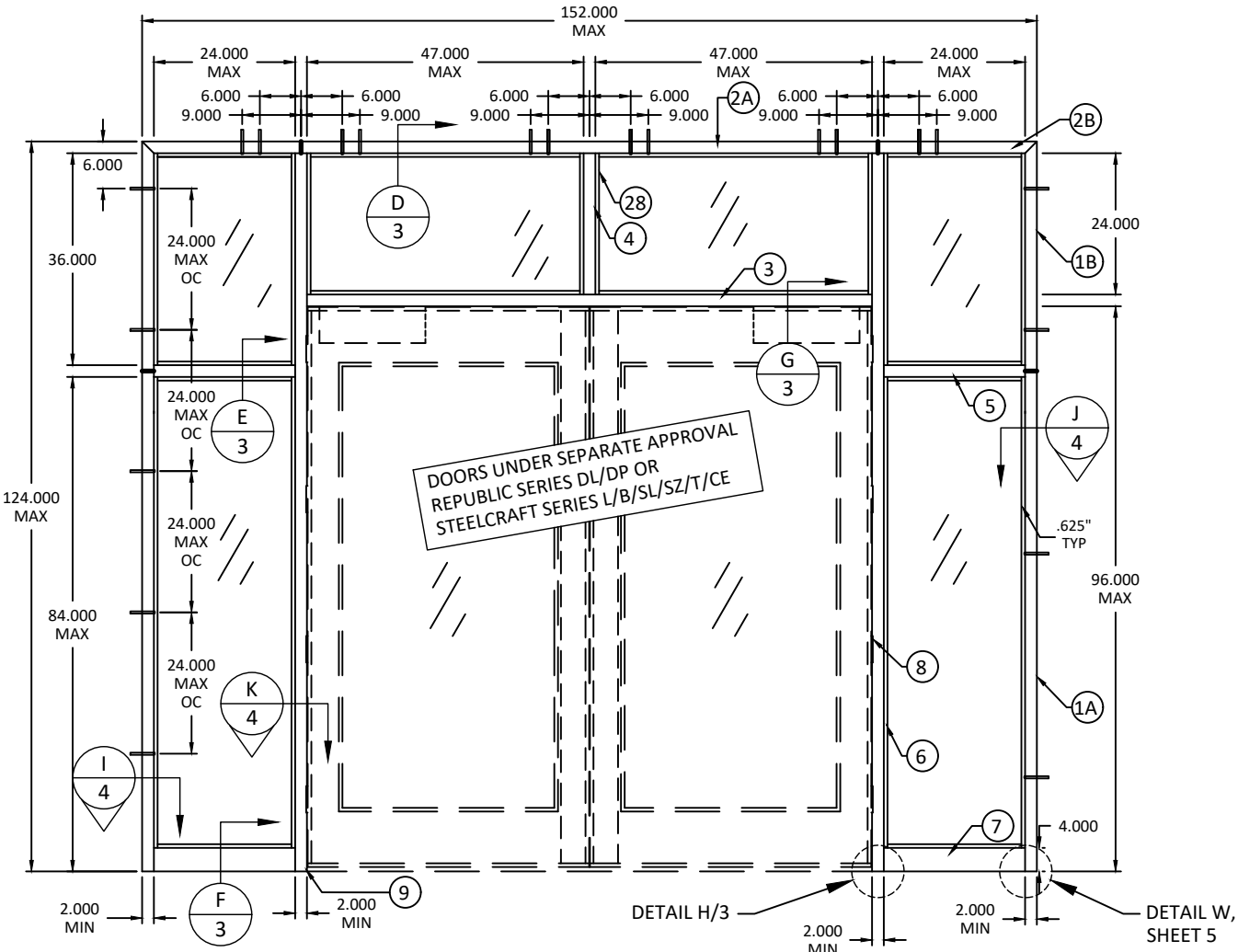
TITLE: FRAME WITH SIDELITES  
AND TRANSOM  
INSTALLATION & GENERAL NOTES

PREPARED BY:  
 BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD. #338  
DANIA BEACH, FL 33004  
PH: (954) 395-8478 FX: (954) 744-4738

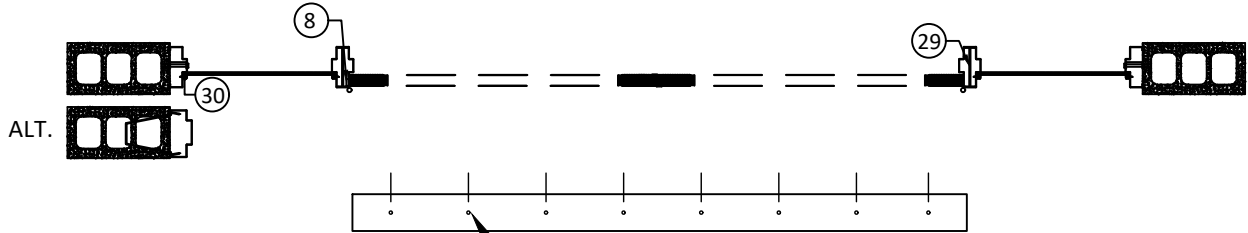
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**ELEVATION**  
**PAIR DOOR W/ SIDELITES & TRANSOMS**



THRESHOLD INSTALLATION  
UNDER SEPARATE APPROVAL

**SILL**

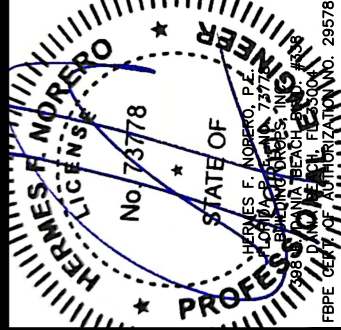
| BILL OF MATERIALS |                                             |                        |                                      |
|-------------------|---------------------------------------------|------------------------|--------------------------------------|
| Item              | Description                                 | Material               | Dimensions (in.)                     |
| 1A                | 70 5.750 DOUBLE SWING JAMB PAIR             | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 86.000 (formed)  |
| 1B                | 30 5.750 DOUBLE SWING JAMB PAIR             | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 36.000 (formed)  |
| 2A                | 98" 5.750 2" FACE DOUBLE OPENING HEADER     | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 98.000 (formed)  |
| 2B                | 27" 5.750 2" FACE DOUBLE OPENING HEADER     | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 27.000 (formed)  |
| 3                 | MULLION 96" X 2" FACE                       | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 96.000 (formed)  |
| 4                 | MULLION 24" X 2" FACE                       | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 24.000 (formed)  |
| 5                 | MULLION 24" X 2" FACE                       | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 24.000 (formed)  |
| 6                 | MULLION 122" X 2" FACE                      | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 122.000 (formed) |
| 7                 | 4" SILL                                     | 16 GA CRS, HRS, OR GLV | .053 min. X 5.750 X 24.000 (formed)  |
| 8                 | HINGE REINFORCING FRAME                     | 9 GA CRS, HRS, OR GLV  | .132 min. x 7.50 x 1.625             |
| 9                 | BASE ANCHOR                                 | 16 GA CRS, HRS, OR GLV | .053 min. X 1.875 X 1.875 (formed)   |
| 28                | GLAZING BEAD                                | STEEL                  | .042 X .750 X .625                   |
| 29                | "C" CHANNEL                                 | 16 GA CRS, HRS, OR GLV | 5.75 X .750 X 120                    |
| 30                | #8 OVAL HEAD TEK SCREW (12" OC/6" FROM STOP | STEEL                  | #8 X 1.500                           |

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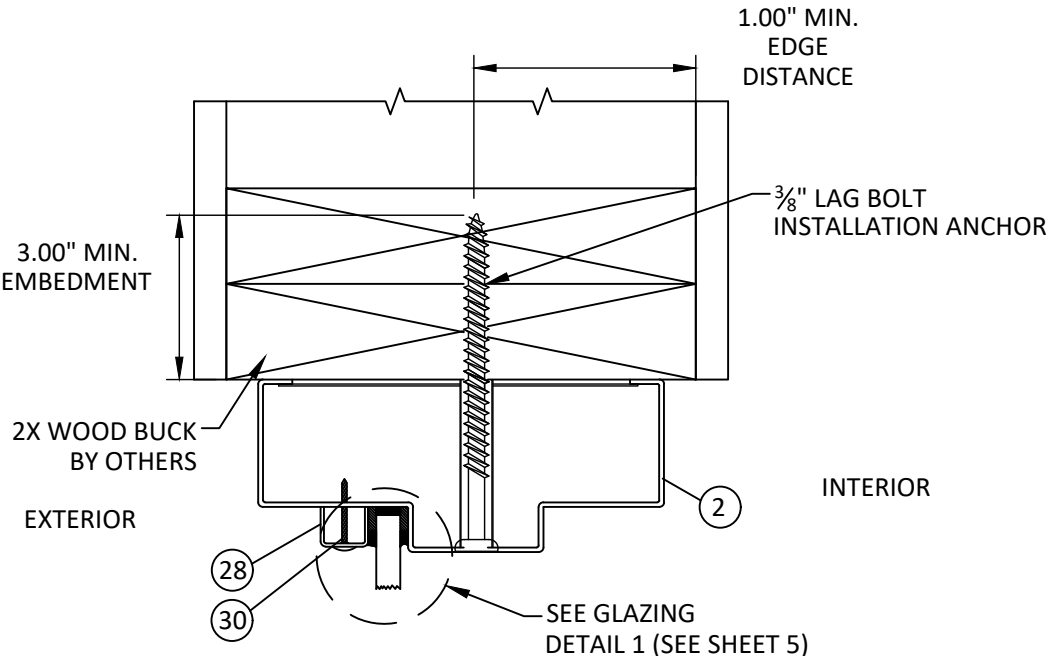
TITLE: FRAME WITH SIDELITES  
AND TRANSOM  
ML ELEVATION, ANCHOR LAYOUT,  
BOM & DETAILS  
PREPARED BY:  
BD BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD. #338  
DANIA BEACH, FL 33004  
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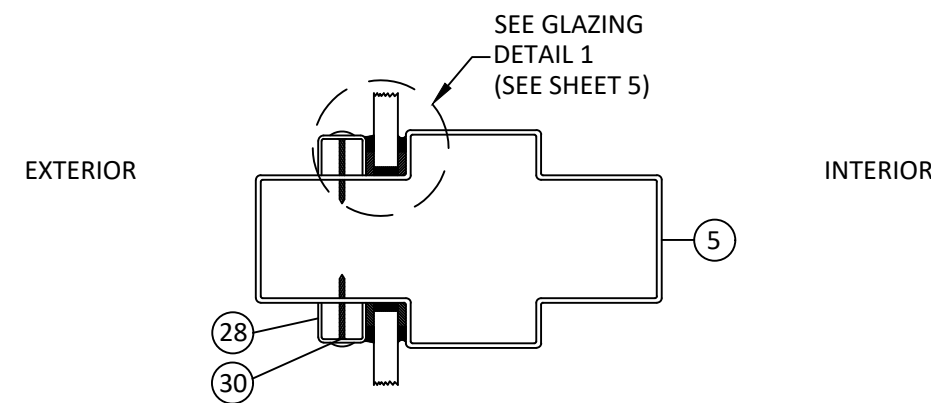
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CHK BY: SM  
SCALE: NTS

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**RDF023**  
SHEET: 2 OF 9



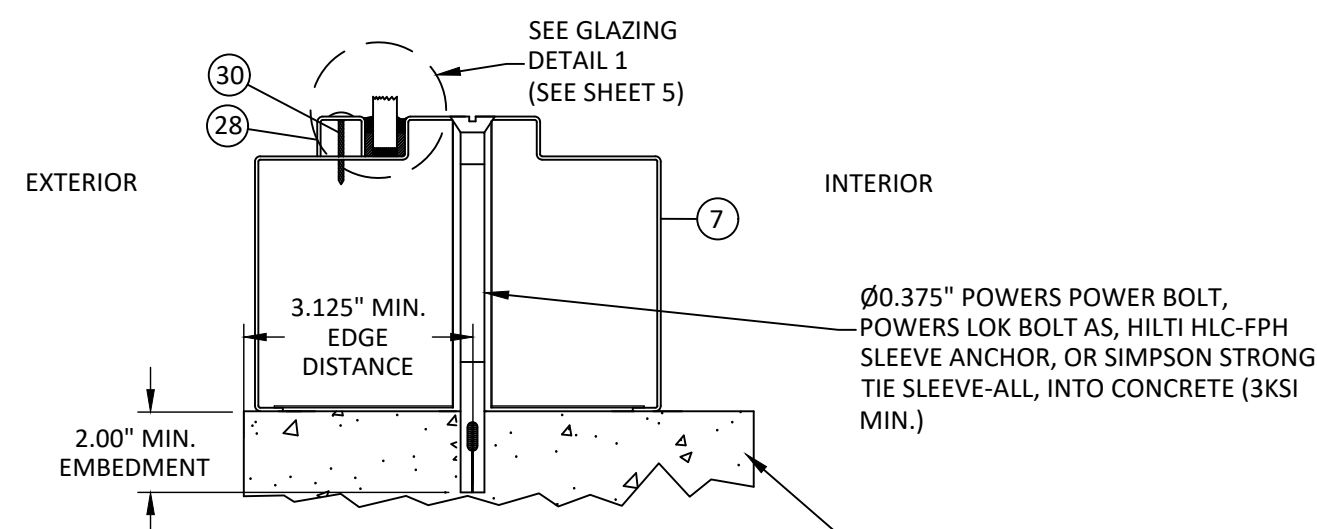
**D**  
**3**  
**VERTICAL SECTION**

HEAD  
2X WOOD BUCK



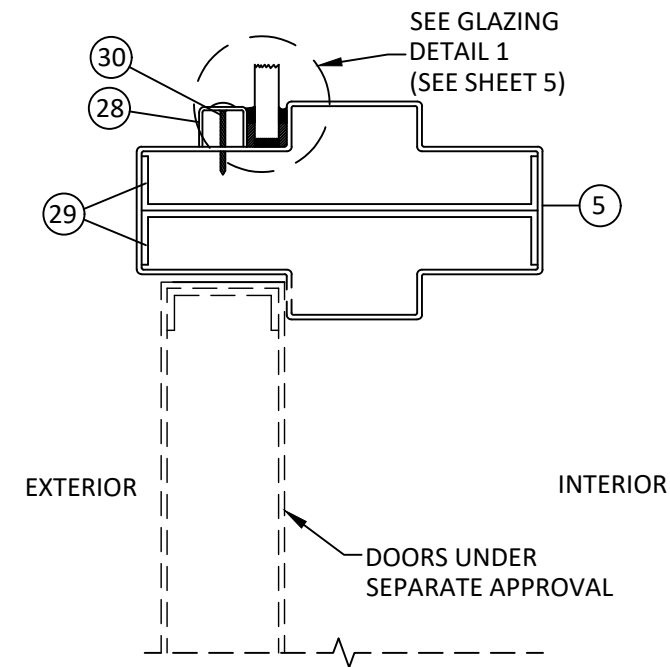
**E**  
**3**  
**VERTICAL SECTION**

HORIZONTAL MULLION  
SPAN <= 4'



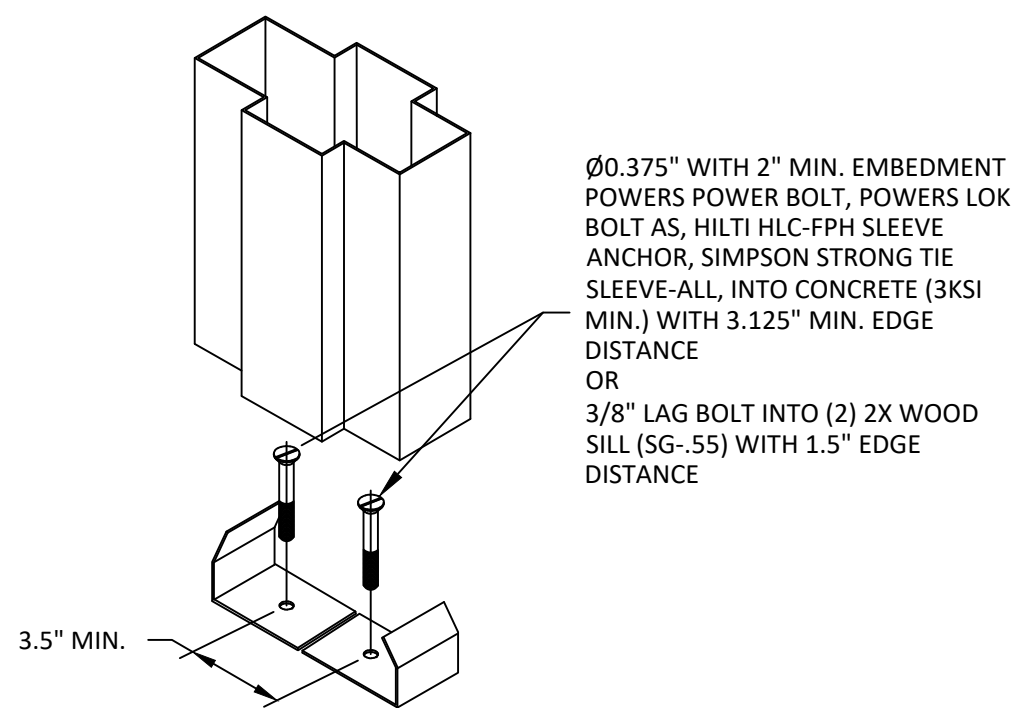
**F**  
**3**  
**VERTICAL SECTION**

SILL  
CONCRETE/MASONRY



**G**  
**3**  
**VERTICAL SECTION**

HORIZONTAL MULLION  
SPAN > 4'



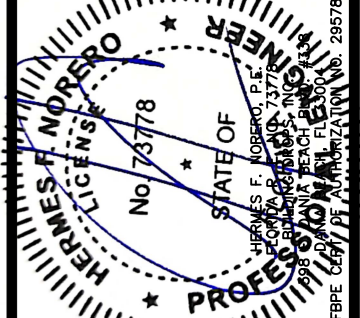
**H**  
**3**  
**BASE ANCHOR DETAIL**

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COMPANY, LLC

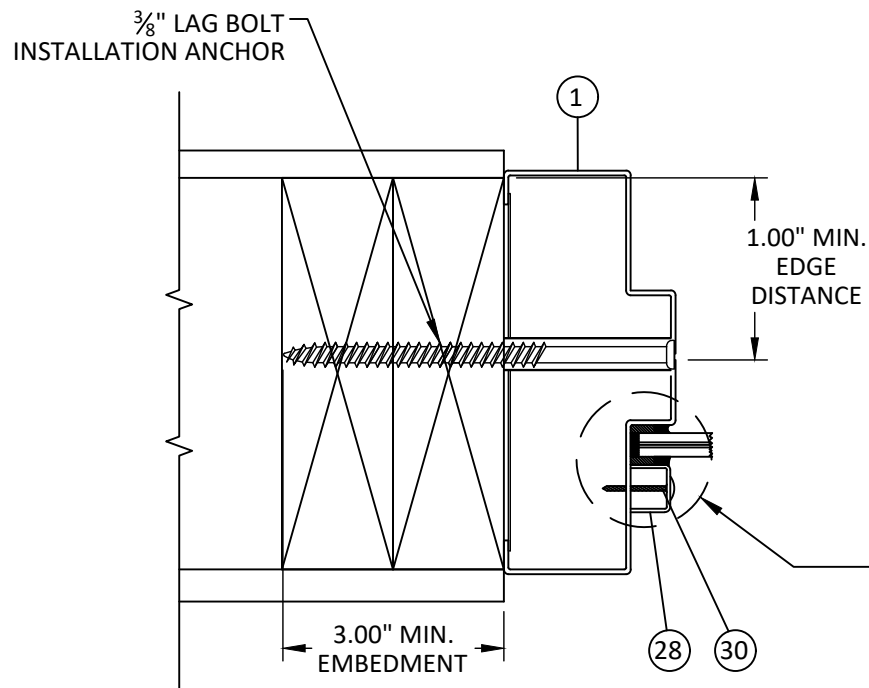
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|                                            |                   |                                                                                   |                    |  |
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| TITLE: FRAME WITH SIDELITES<br>AND TRANSOM | VERTICAL SECTIONS |                                                                                   |                    |  |
|                                            | PREPARED BY:      | BD BUILDING DROPS, INC.<br>398 E. DANIA BEACH BLVD. #338<br>DANIA BEACH, FL 33004 |                    |  |
|                                            |                   | PH: (954) 399-8478                                                                | FX: (954) 744-4738 |  |

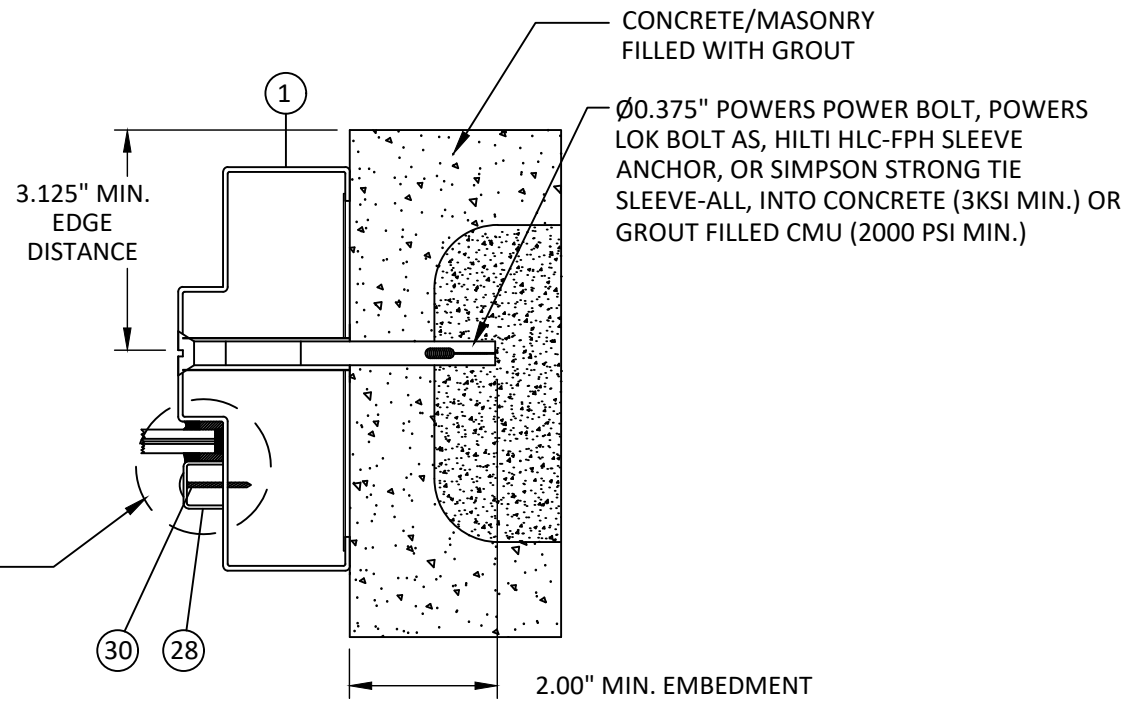
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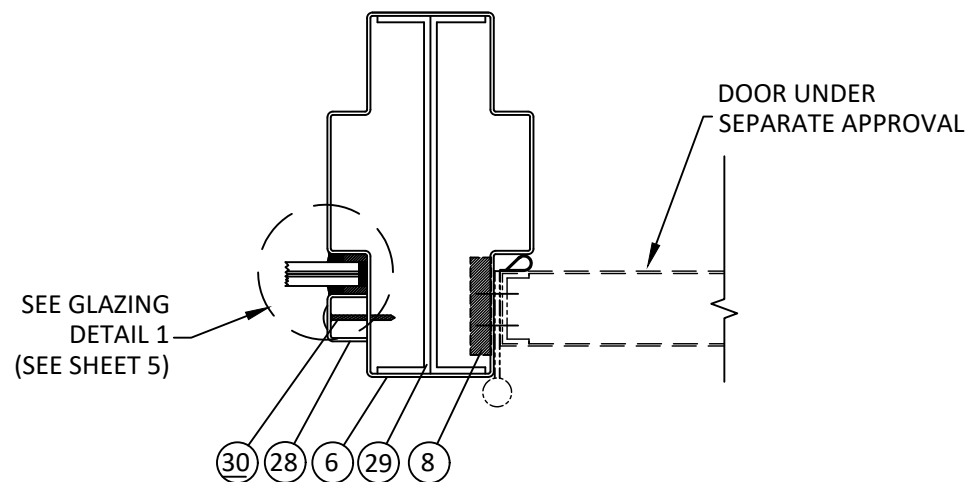
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| SHEET: <b>3 OF 9</b>    |               |               |               |



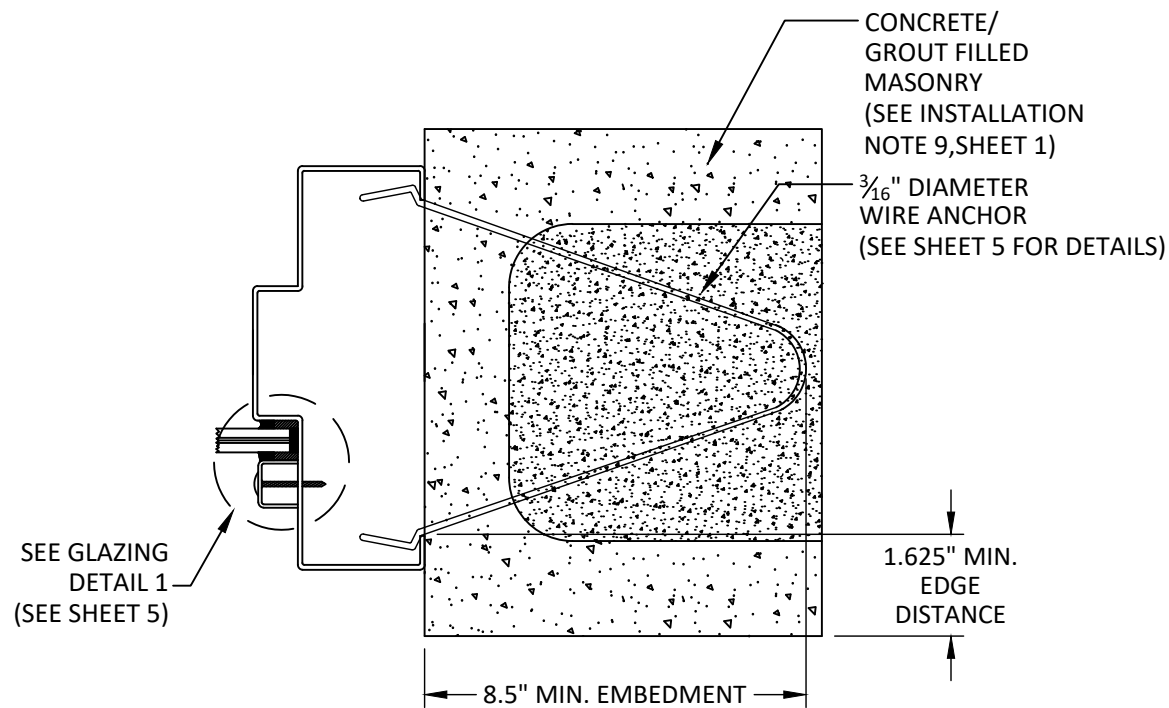
**I**  
**4** **HORIZONTAL SECTION**  
3/8" X 5" LAG BOLT  
JAMB - 2X WOOD FRAME



**J**  
**4** **HORIZONTAL SECTION**  
EXPANSION BOLT WITH PIPE AND STRAP  
JAMB - CONCRETE/MASONRY



**K**  
**4** **HORIZONTAL SECTION**  
VERTICAL MULLION



**L**  
**4** **HORIZONTAL SECTION**  
JAMB - CONCRETE/MASONRY  
WIRE ANCHOR

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TITLE: FRAME WITH SIDELITES  
AND TRANSOM

HORIZONTAL SECTIONS

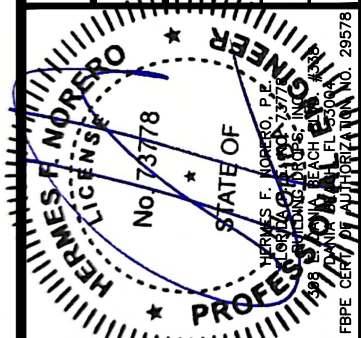
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**BD** BUILDING DROPS, INC.  
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DANIA BEACH, FL 33004

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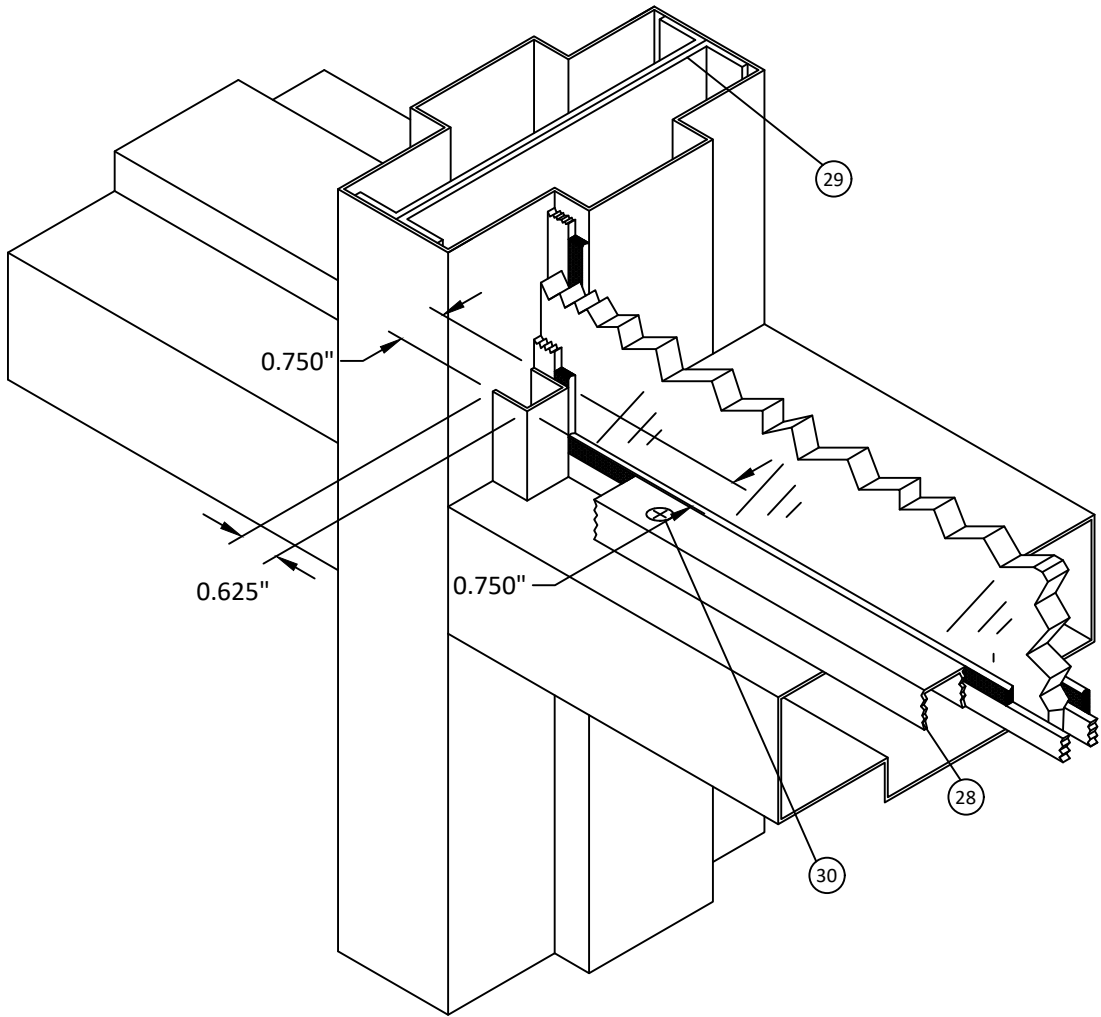


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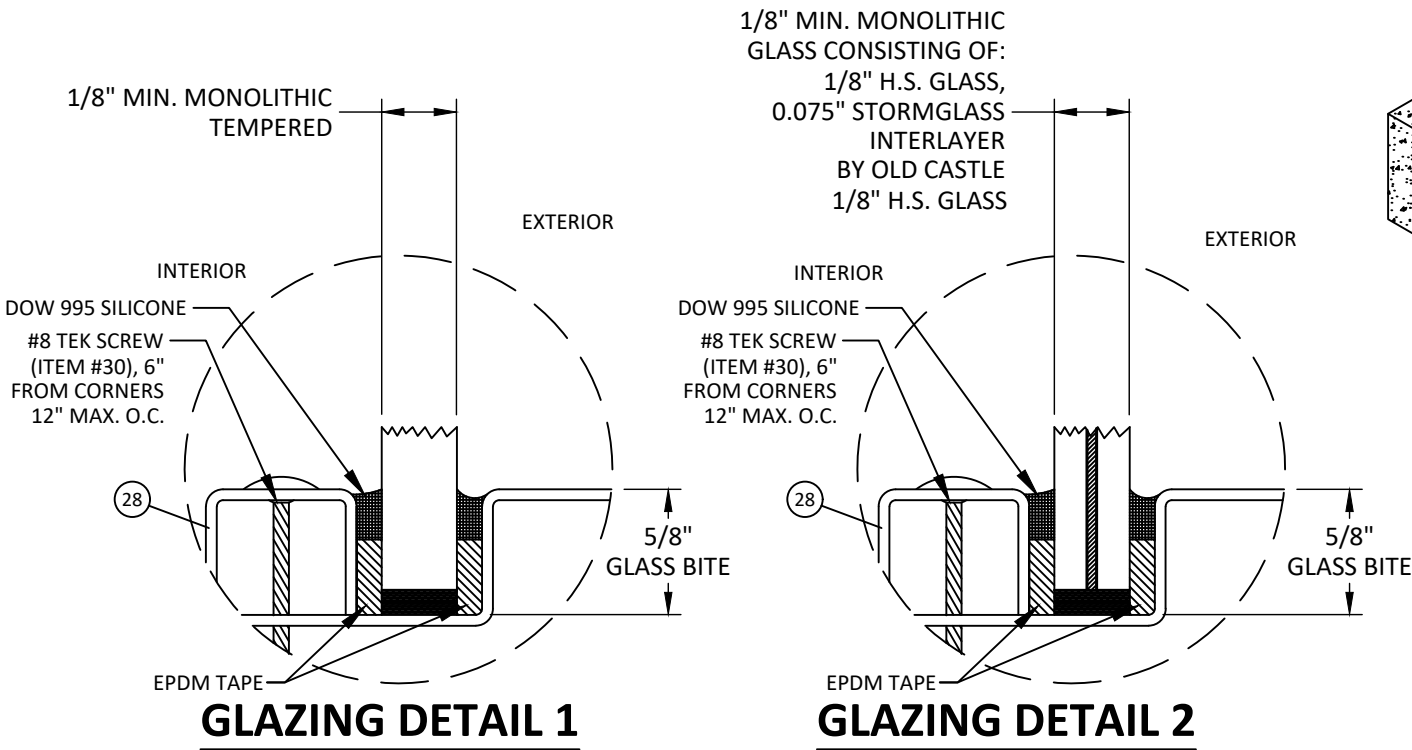
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**RDF023**

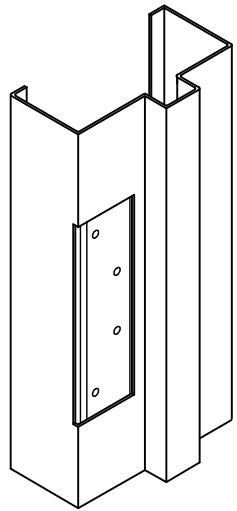
SHEET: **4 OF 9**



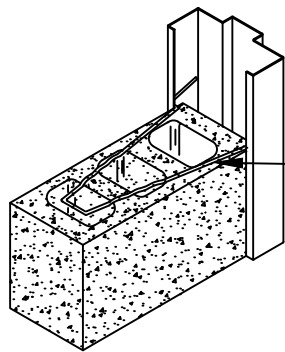
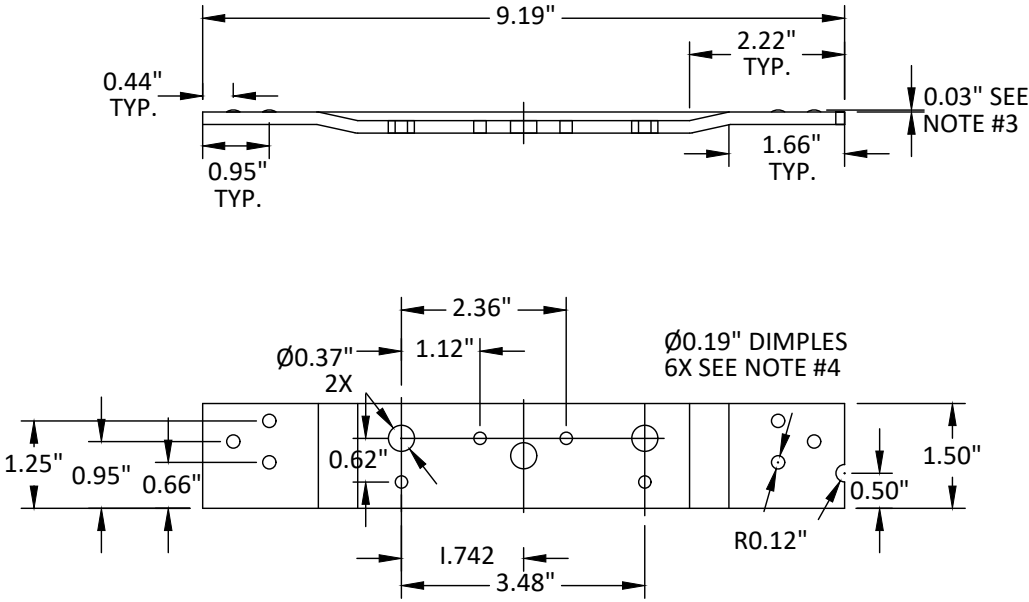
**GLAZING CROSS SECTION**



NOTE: GLAZING OPTIONS SHALL COMPLY WITH ASTM E1300 AND FBC SAFETY GLAZING REQUIREMENTS

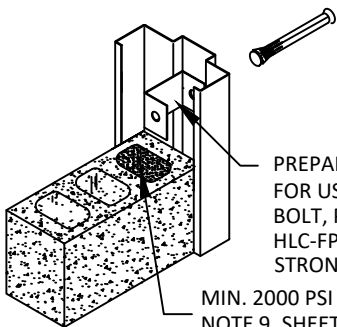


**DETAIL Z**  
ITEM #8  
FRAME HINGE REINFORCEMENT



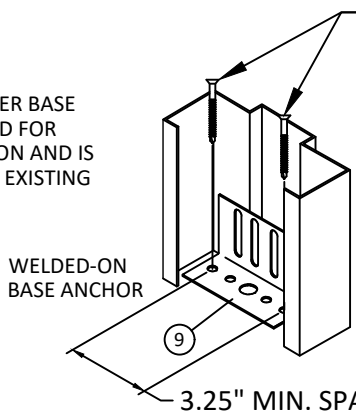
3/16" DIA. WIRE x 8-3/4" LONG  
WIRE MASONRY ANCHOR  
APPLICATION FOR FULLY GROUTED  
FRAME JAMBS 2000 PSI GROUT  
FILLED (SEE INSTALLATION NOTE 9,  
SHEET 1) & STEEL REINFORCING  
BAR AS REQUIRED BY CODE

**DETAIL D3**  
WIRE MASONRY ANCHOR



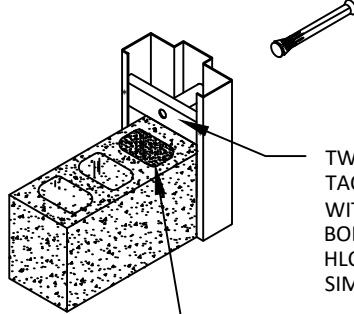
PREPARED OPENING CHANNEL ANCHOR  
FOR USE WITH Ø0.375" POWERS POWER  
BOLT, POWERS LOK BOLT AS, HILTI  
HLC-FPH SLEEVE ANCHOR, OR SIMPSON  
STRONG TIE SLEEVE-ALL  
MIN. 2000 PSI GROUT FILLED (SEE INSTALLATION  
NOTE 9, SHEET 1) & STEEL REINFORCING BAR AS  
REQUIRED BY CODE

**DETAIL D1**  
INSTALLATION ANCHOR W/ CHANNEL



JAMB BASE ANCHOR INTO  
CONCRETE (3 KSI MIN.):  
Ø0.375" WITH 2" EMBEDMENT  
POWERS POWER BOLT,  
POWERS LOK BOLT AS, HILTI  
HLC-FPH SLEEVE ANCHOR,  
SIMPSON STRONG TIE  
SLEEVE-ALL  
OR  
3/8" LAG BOLT  
INTO (2) 2X WOOD  
SILL (SG=.55)

**DETAIL W**  
JAMB CORNER BASE PLATE



TWIST-IN PREPARED PIPE ANCHORS  
TACK WELDED INTO PLACE FOR USE  
WITH Ø0.375" POWERS POWER  
BOLT, POWERS LOK BOLT AS, HILTI  
HLC-FPH SLEEVE ANCHOR, OR  
SIMPSON STRONG TIE SLEEVE-ALL  
MIN. 2000 PSI GROUT FILLED (SEE INSTALLATION  
NOTE 9, SHEET 1) & STEEL REINFORCING BAR AS  
REQUIRED BY CODE

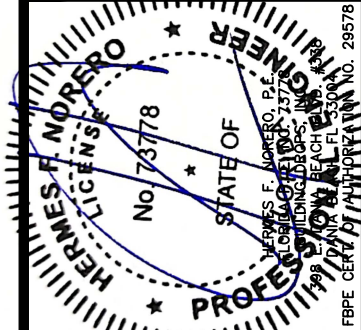
**DETAIL D2**  
INSTALLATION ANCHOR PIPE STRAP

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COMPANY, LLC

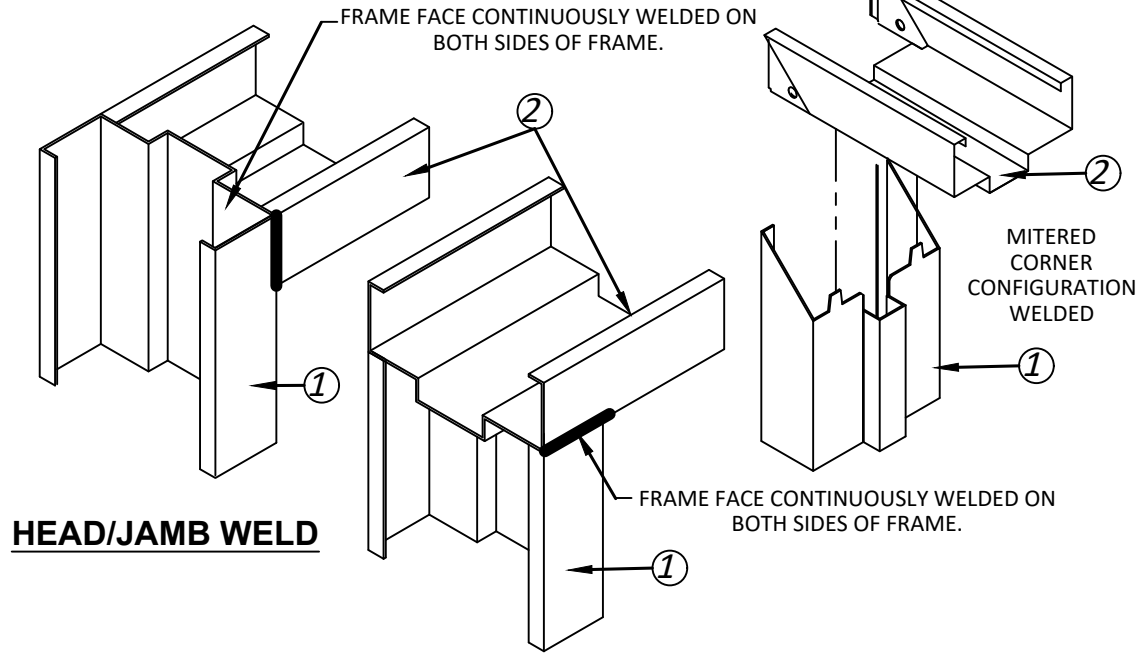
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PH: (800) 799-3667 FX: (731) 352-2556

|                                                                                                   |                                                                                                                                            |  |  |  |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| TITLE: FRAME WITH SIDELITES<br>AND TRANSOM<br>INSTALLATION, REINFORCEMENT,<br>AND GLAZING DETAILS | PREPARED BY:<br>BD BUILDING DROPS, INC.<br>398 E. DANIA BEACH BLVD. #338<br>DANIA BEACH, FL 33004<br>PH: (954) 399-8478 FX: (954) 744-4738 |  |  |  |
|                                                                                                   |                                                                                                                                            |  |  |  |

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| SHEET: 5 OF 9           |               |               |               |

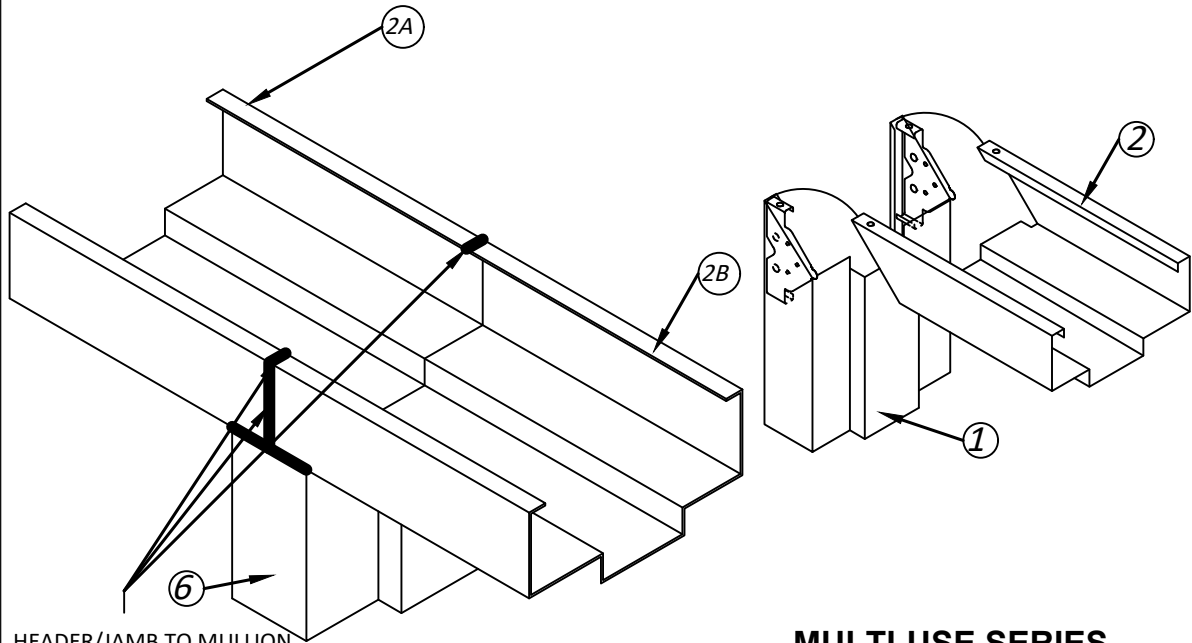


HEAD/JAMB WELD

FRAME FACE CONTINUOUSLY WELDED ON BOTH SIDES OF FRAME.

MITERED CORNER CONFIGURATION WELDED

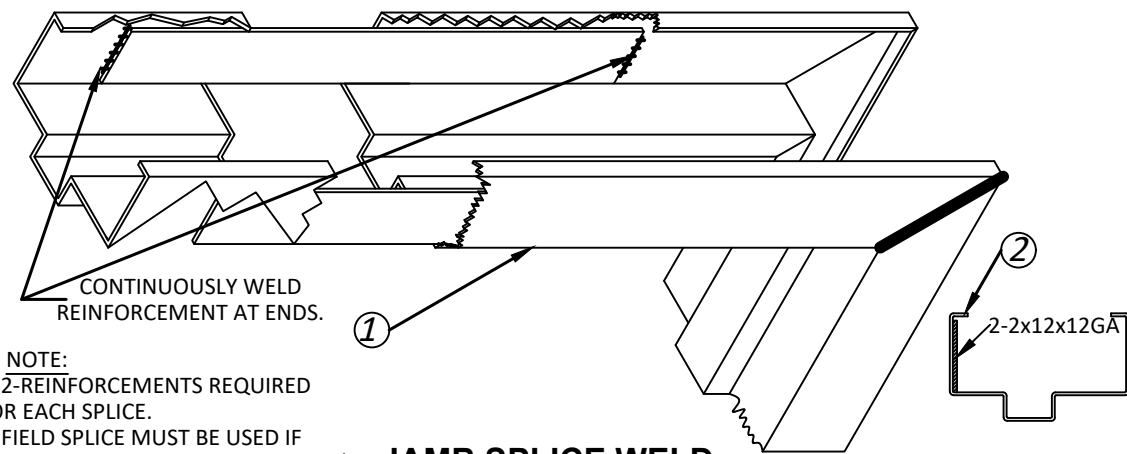
FRAME FACE CONTINUOUSLY WELDED ON BOTH SIDES OF FRAME.



HEADER/JAMB TO MULLION WILL BE CONTINUOUSLY WELDED ON FACE ON BOTH SIDES OF FRAME AND MULLION.

HEAD/MULLION WELD

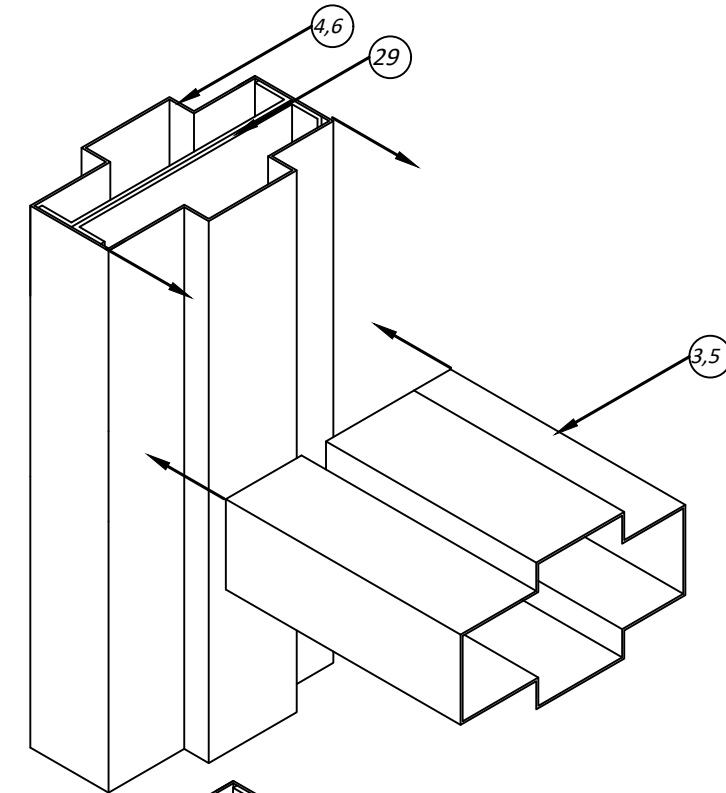
MULTI-USE SERIES WELDED CORNER OPTIONAL



NOTE:  
1. 2-REINFORCEMENTS REQUIRED FOR EACH SPLICE.  
2. FIELD SPLICE MUST BE USED IF JAMB LENGTHS ARE IN EXCESS OF 10'.

JAMB SPLICE WELD

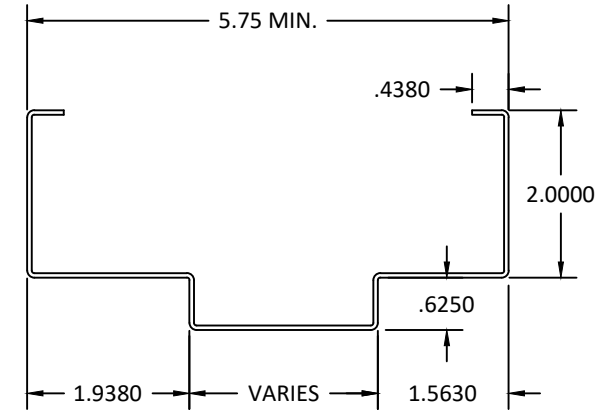
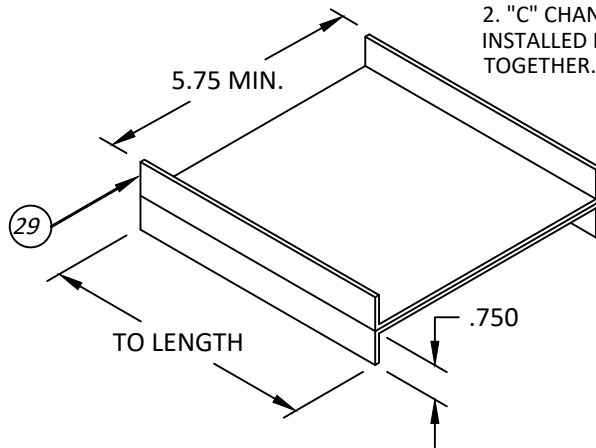
2-2x12x12GA



MULLION/MULLION WELD W/ REINFORCEMENT

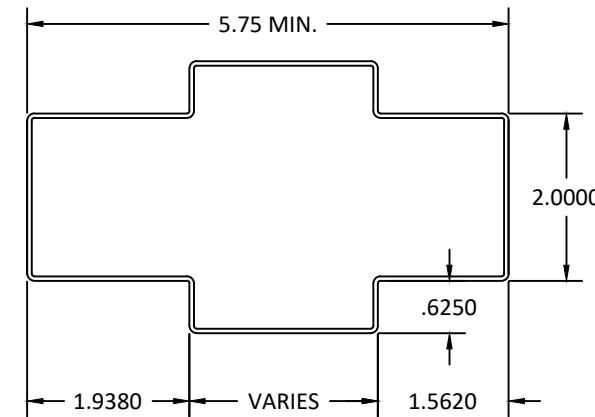
MULLION TO MULLION WILL BE CONTINUOUSLY WELDED ON FACE ON BOTH SIDES OF MULLION.

NOTE:  
1. MULLIONS MUST BE REINFORCED IF GREATER THAN 4'.  
2. "C" CHANNELS MUST BE INSTALLED BEFORE WELDING TOGETHER.



1,2

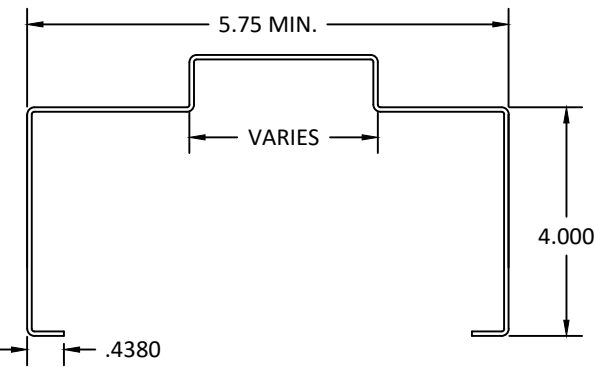
FRAME HEAD/JAMB



3,5

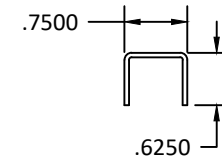
4,6

FRAME HORIZONTAL/VERTICAL MULLION



7

4" BOTTOM SILL



28

5/8" GLAZING BEAD

ALLEGION - SCHLAGE LOCK COMPANY, LLC

11819 N. PENNSYLVANIA ST  
CARMEL, IN 46032

PH: (800) 799-3667 FX: (731) 352-2556

TITLE: FRAME WITH SIDELITES AND TRANSOM  
REPUBLIC MULLION DETAILS AND COMPONENTS

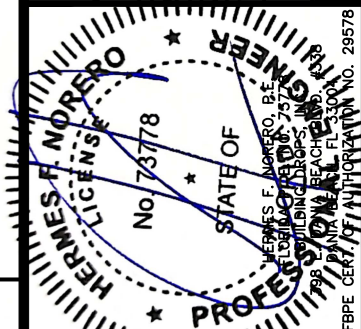
PREPARED BY:

BD BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD. #338  
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

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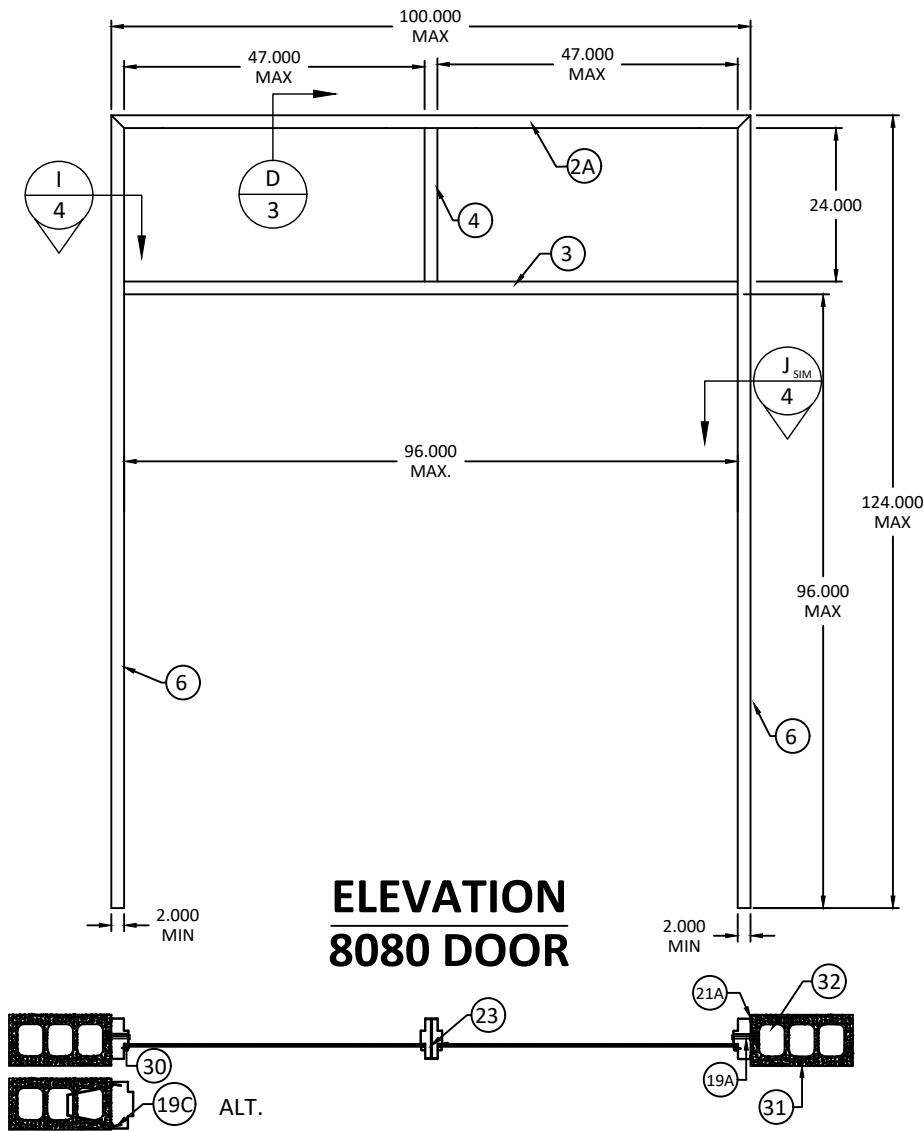
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RDF023

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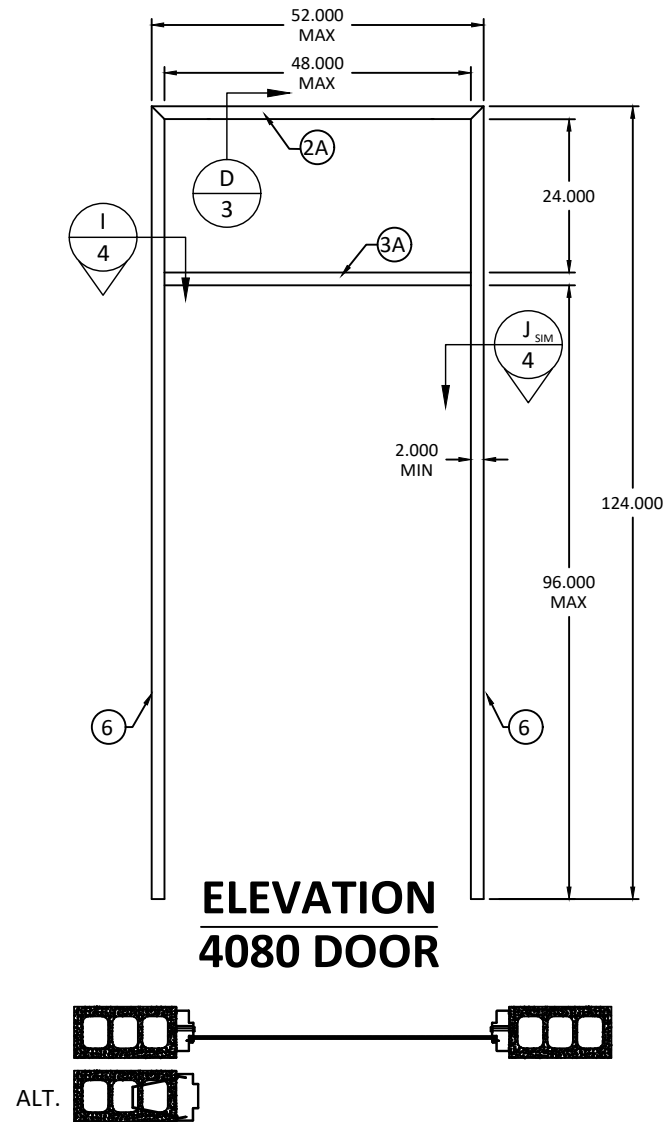
6 OF 9

ALTERNATE ELEVATIONS

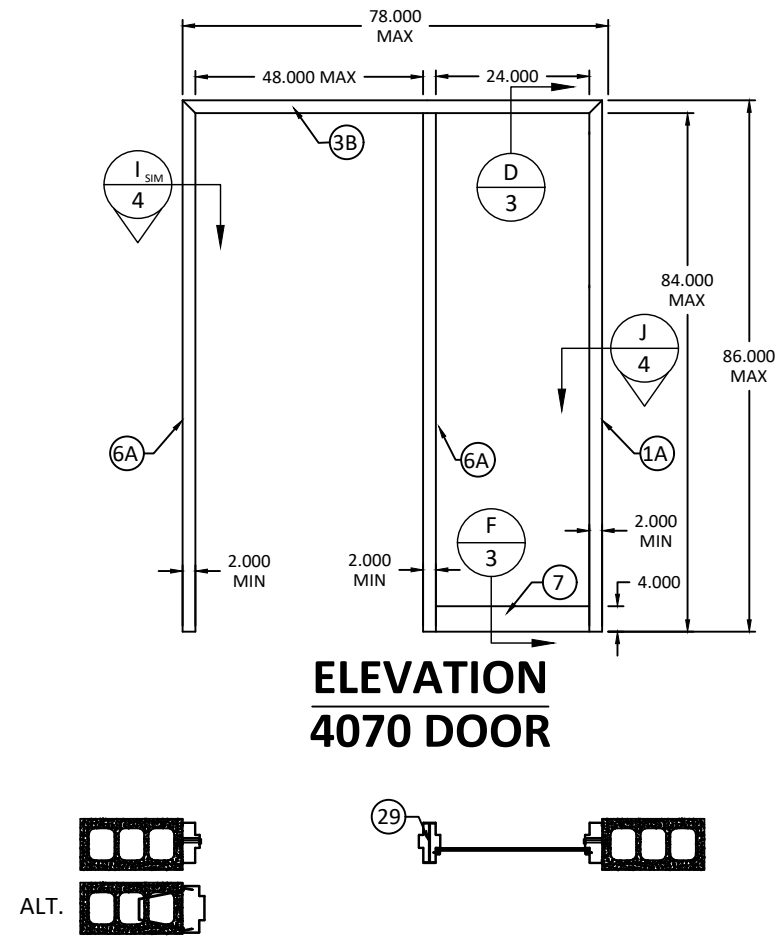


ELEVATION  
8080 DOOR

- QUALIFIED CONFIGURATION NOTES:
- 1) OVERALL UNIT DIMENSIONS AND PANEL DIMENSIONS SHALL NOT EXCEED THOSE SHOWN.
  - 2) ANCHOR LOCATIONS AND SPACING SHOWN IN ELEVATION ON SHEET 2 RESPECTIVELY APPLY TO CONFIGURATIONS SHOWN HEREIN.



ELEVATION  
4080 DOOR



ELEVATION  
4070 DOOR

ALLEGION - SCHLAGE LOCK  
COMPANY, LLC

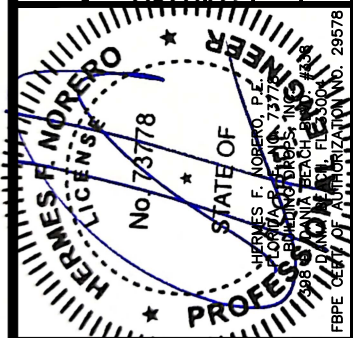
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AND TRANSOM

QUALIFIED CONFIGURATIONS

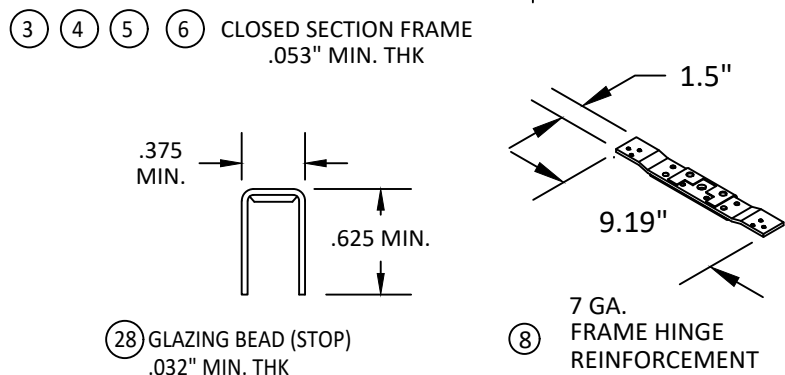
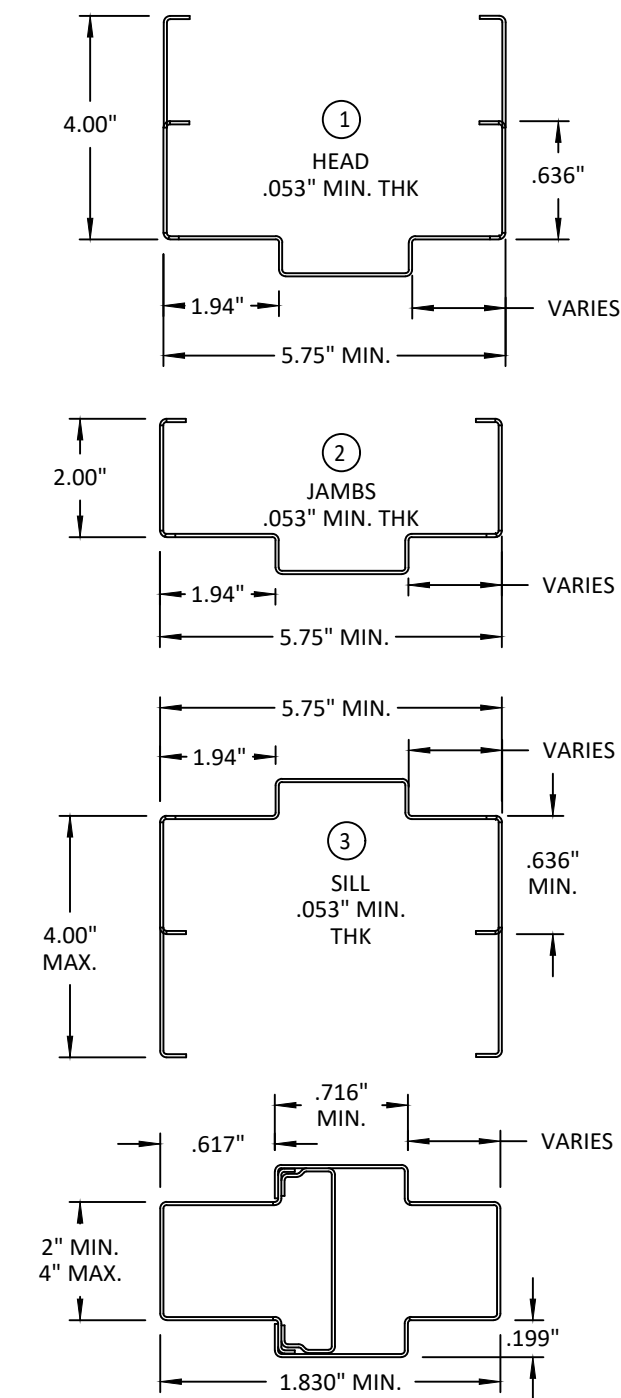
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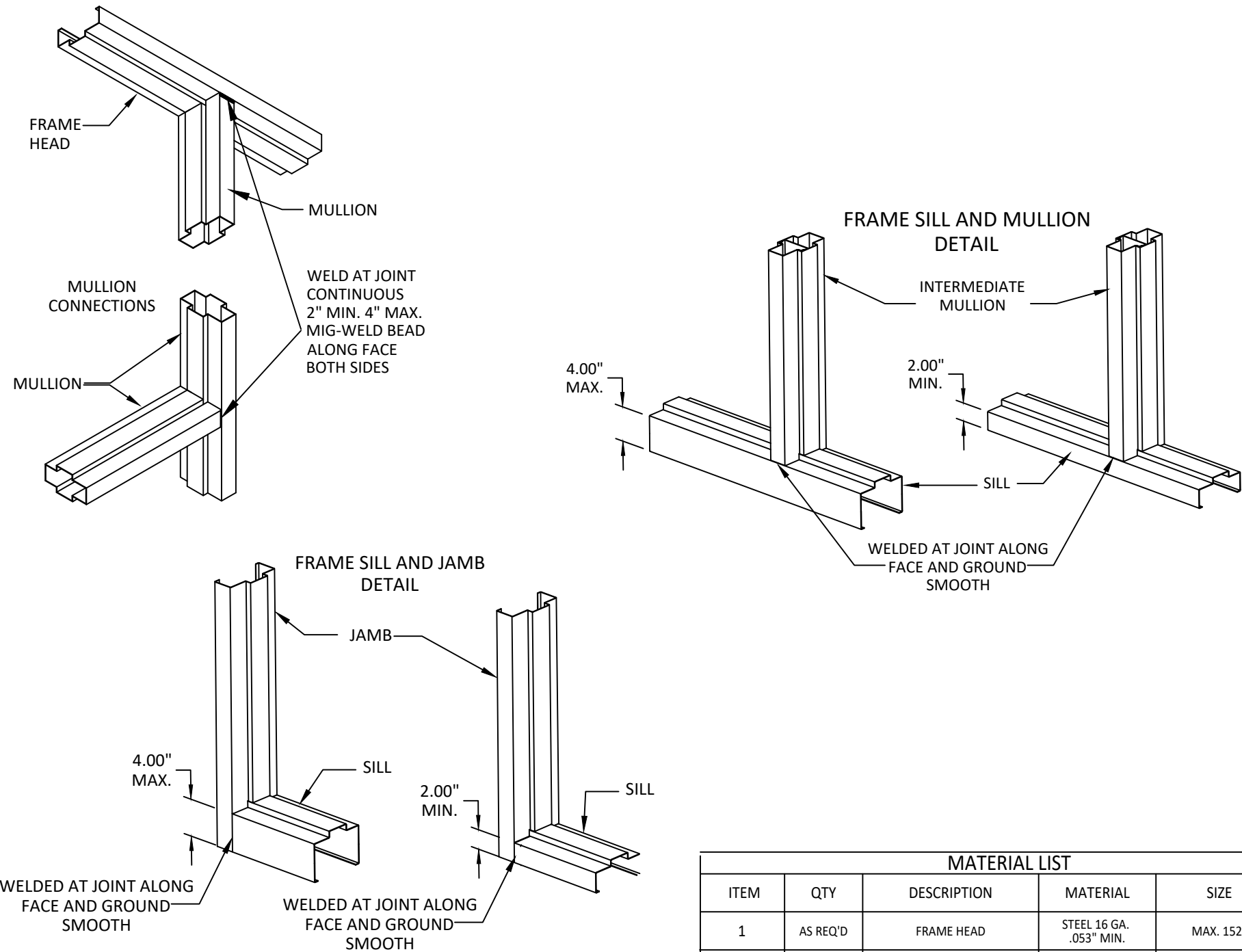


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SHEET: 7 OF 9



NOTE: FRAME HEAD FACE DIMENSION GREATER THAN 2" MUST BE FULLY GROUTED DURING INSTALLATION



| MATERIAL LIST |          |                                      |                         |                          |
|---------------|----------|--------------------------------------|-------------------------|--------------------------|
| ITEM          | QTY      | DESCRIPTION                          | MATERIAL                | SIZE                     |
| 1             | AS REQ'D | FRAME HEAD                           | STEEL 16 GA. .053" MIN. | MAX. 152"                |
| 2             | AS REQ'D | FRAME JAMBS                          | STEEL 16 GA. .053" MIN. | MAX. 124"                |
| 7             | AS REQ'D | FRAME SILL                           | STEEL 16 GA. .053" MIN. | MAX. 118"                |
| 3,4,5,6       | AS REQ'D | CLOSED SECTION FRAME MULLION/TRANSOM | STEEL 16 GA. .053" MIN. | MAX. 118"                |
| 28            | AS REQ'D | GLAZING BEAD (STOP)                  | STEEL 20 GA. .034" MIN. | MAX. 118"                |
| 30            | AS REQ'D | GLAZING BEAD SCREW                   | 8-18 x 1-1/4 POHB       | @ 5" FROM ENDS, 10" O.C. |
| 31            | AS REQ'D | SIKAFLEX 552 GLAZING COMPOUND        | POLYURETHANE BASED      | -                        |
| 8             | AS REQ'D | HINGE REINFORCEMENT                  | STEEL 7 GA. .167" MIN.  | 1.5" X 9.19"             |

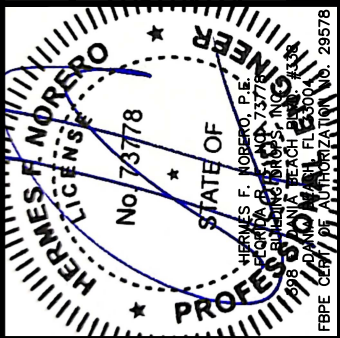
ALLEGION - SCHLAGE LOCK COMPANY, LLC

11819 N. PENNSYLVANIA ST  
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PH: (800) 799-3667 FX: (731) 352-2556

TITLE: FRAME WITH SIDELITES AND TRANSOM  
STEELCRAFT MULLION DETAILS AND COMPONENTS

PREPARED BY:  
BD BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD. #338  
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PH: (954) 395-8478 FX: (954) 744-4738

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SHEET: 8 OF 9

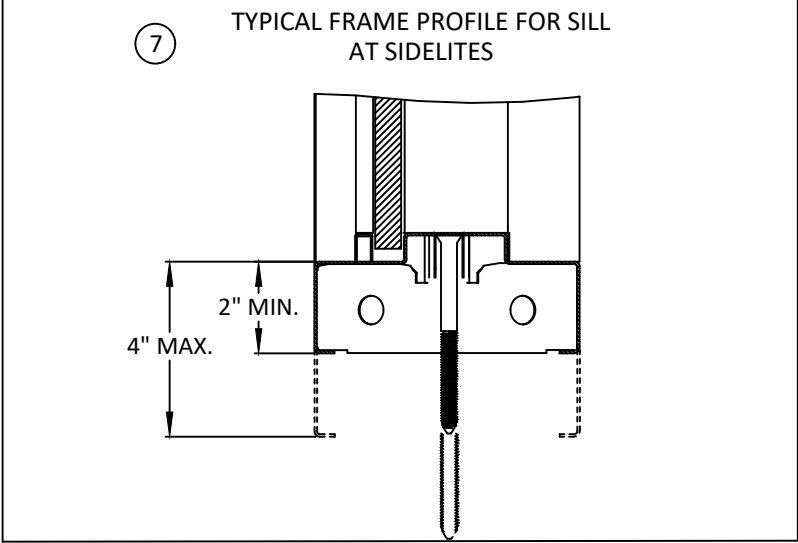
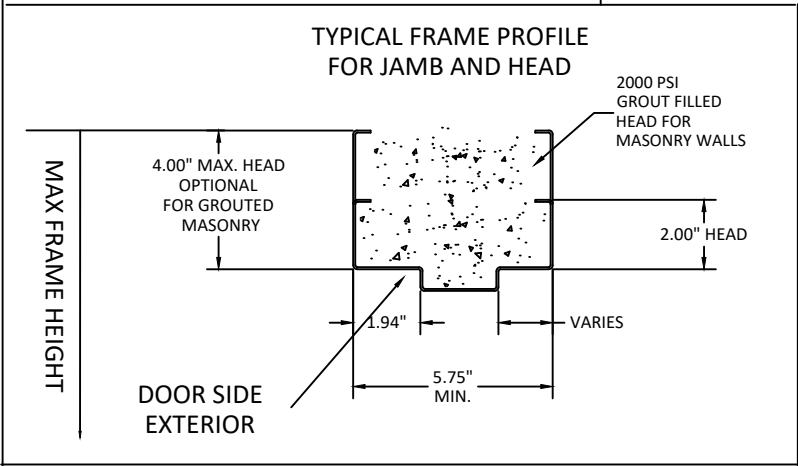
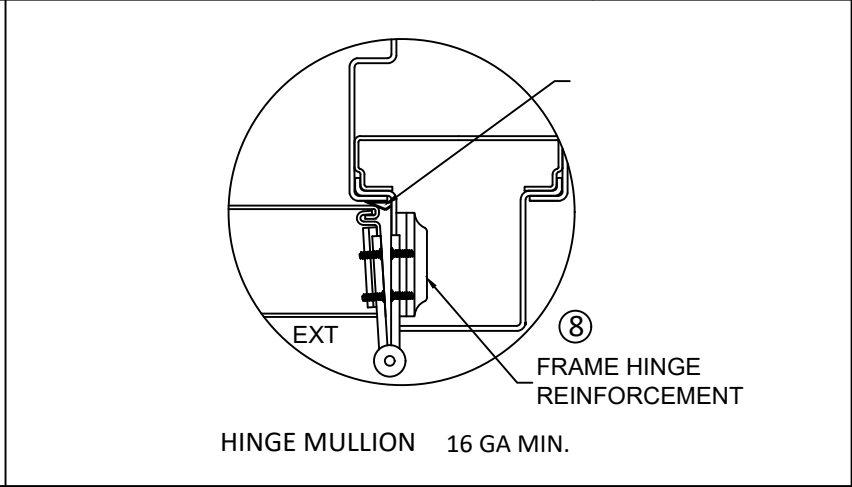
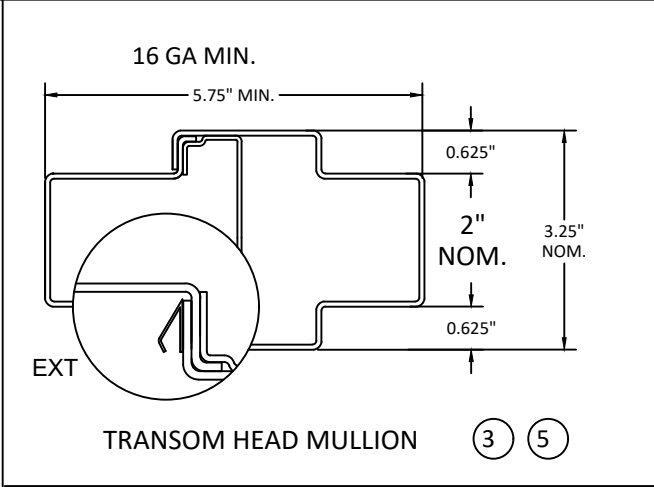
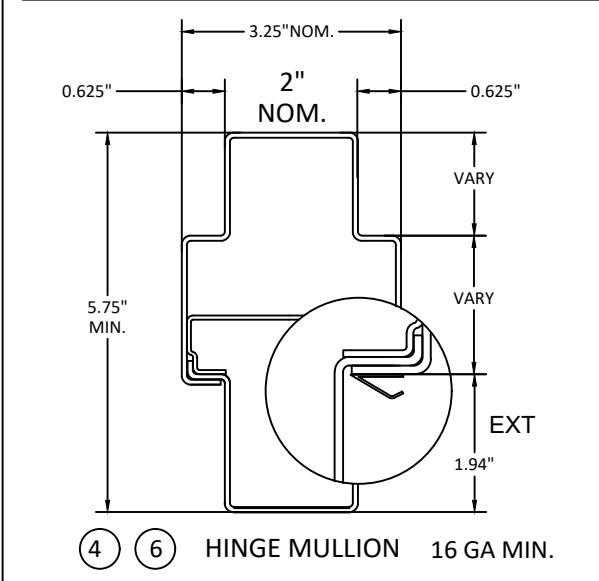
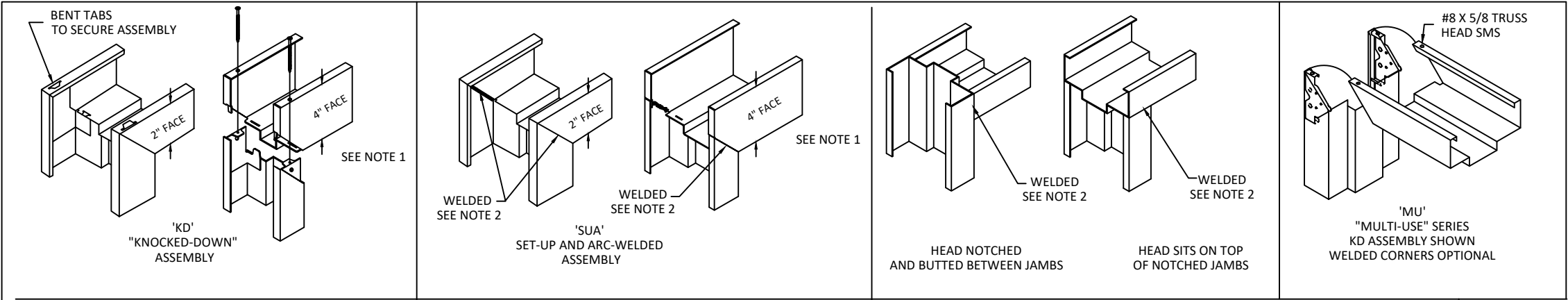


TABLE A. AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

| FRAME SERIES | JAMB DEPTH | MAXIMUM DOOR OPENING SIZE |             | MATERIAL     |                                  |
|--------------|------------|---------------------------|-------------|--------------|----------------------------------|
|              |            | SINGLE                    | PAIR        | DESCR.       | GA./MIN. THK                     |
| F            | 5.75" MIN. | 4'0" X 8'0"               | 8'0" X 8'0" | CRS/HRS GALV | 16/.053"<br>14/.067"<br>12/.099" |
| MU           | 5.75" MIN. | 4'0" X 8'0"               | 8'0" X 8'0" | CRS/HRS GALV | 16/.053"<br>14/.067"             |

TABLE B. AVAILABLE REPUBLIC FRAME CONFIGURATIONS

| FRAME SERIES | JAMB DEPTH | MAXIMUM DOOR OPENING SIZE |             | MATERIAL     |                      |
|--------------|------------|---------------------------|-------------|--------------|----------------------|
|              |            | SINGLE                    | PAIR        | DESCR.       | GA./MIN. THK         |
| ME/SE        | 5.75" MIN. | 4'0" X 8'0"               | 8'0" X 8'0" | CRS/HRS GALV | 16/.053"<br>14/.067" |
| SE           | 5.75" MIN. | 4'0" X 8'0"               | 8'0" X 8'0" | CRS/HRS GALV | 12/.093"             |

- NOTES:
1. GROUTED 4" FACE HEAD MAY BE USED WITHIN MAXIMUM FRAME HEIGHT LIMITATIONS.
  2. CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM, GRIND SMOOTH & PRIME PAINT. WELD CLASSIFICATION - E70XX

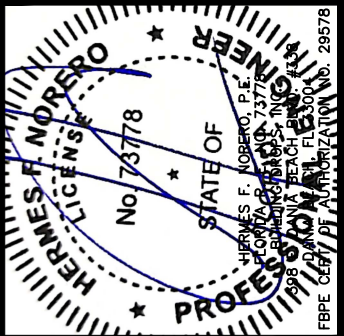
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