

# ALLEGION - SCHLAGE LOCK COMPANY, LLC.

## OUTSWING DOUBLE FLUSH COMMERICAL STEEL DOOR

### (HVHZ)(IMPACT)

GENERAL NOTES:

- THESE PRODUCTS HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS 201, 202, 203-94, ASTM PROTOCOLS E283-04(12), E330-14, E331-00(09) AND COMPLY WITH THE CURRENT FLORIDA BUILDING CODE.
- THE DOORS ARE LARGE AND SMALL MISSILE IMPACT RATED.

NOTES:

- ALL DIMENSIONS SHOWN MAX. AND TYP. FOR ALL DOOR/FRAME MODELS UNLESS OTHER INDICATED.
- ANCHOR REQUIREMENTS: SEE SHEET 11 - 16 & 29 - 34 FOR APPROVED ANCHORS AND INSTALLATION.
- HINGE REQUIREMENTS:  
FOR DOOR OPENING UP TO 90" HIGH - MIN. (3) BUTT HINGES  
FOR DOOR OPENING OVER 90" - 96" HIGH - MIN (4) BUTT HINGES  
LOCATIONS: 7.125" MIN - 9.75" MAX. FROM RABBET IN HEAD TO CL OF TOP HINGE  
9" MIN. -12.25" MAX. FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.  
HINGE LOCATIONS MAY VARY, MAX SPACING NOT TO EXCEED 35.5" FOR THREE HINGES.
- APPROVED CONTINUOUS HINGE MODELS: SEE SHEET 21
- SEE SHEET 2, 6, 26, AND 28 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
- HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
- HEAD SECTION CAN HAVE 4" FACE DIMENSIONS WHEN IT'S GROUTED WITH CONCRETE.
- APPLY CAULK AS NEEDED
- WHEN WATER INFILTRATION RATING IS NOT REQUIRED, INSTALL GASKETING PER SHEETS 19 - 20.
- WHEN WATER INFILTRATION RATING IS REQUIRED, INSTALL GASKETING PER SHEETS 17 - 18
- WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN
- ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY. FIRE RATING IS NOT PART OF THIS APPROVAL, CONSULT MANUFACTURER FOR APPROVED CONFIGURATIONS.
- OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTAL MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND DOES NOT EFFECT THE MECHANICAL PROPERTIES OF HARDWARE AND OR INHIBIT EGRESS. TO BE REVIEWED BY THE BUILDING OFFICIAL.
- GASKETING QUANTITY WILL INCREASE WHEN USED WITH HOLLOW METAL MULLION. SEE SHTS 17-20 FOR DETAILS.

| DESIGN PRESSURE RATING |                                                          |                                                              | IMPACT RATING                                               |
|------------------------|----------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|
| CONFIGURATION          | WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE NEEDED | WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE NOT NEEDED | LARGE AND SMALL MISSILE IMPACT, LARGE MISSILE IMPACT 50 F/S |
| 1                      | +75/-75                                                  | +75/-75                                                      |                                                             |
| 1A                     | +60/-60                                                  | +60/-60                                                      |                                                             |
| 2                      | +55/-55                                                  | +55/-55                                                      |                                                             |
| 3                      | +65/-65                                                  | +65/-65                                                      |                                                             |
| 4                      | +75/-75                                                  | +75/-75                                                      |                                                             |
| 5                      | +75/-75                                                  | +90/-90                                                      |                                                             |
| 5A                     | +70/-70                                                  | +70/-70                                                      |                                                             |
| 6                      | +70/-70                                                  | +70/-70                                                      |                                                             |
| 7                      | +70/-70                                                  | +70/-70                                                      |                                                             |
| 8                      | +70/-70                                                  | +70/-70                                                      |                                                             |
| 9                      | +70/-70                                                  | +70/-70                                                      |                                                             |
| 10                     | +70/-70                                                  | +70/-70                                                      |                                                             |
|                        | (ZERO INT'L 566)                                         | (ZERO INT'L 566)                                             |                                                             |
|                        | +50/-50 (NGP 950)                                        | +50/-50 (NGP 950)                                            |                                                             |
| 11                     | +70/-55                                                  | +70/-55                                                      |                                                             |

CONSTRUCTION NOTES:

- DOOR CONSTRUCTION
  - NOMINAL DOOR THICKNESS - 1 3/4"
  - DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS
  - ALL DOORS ARE FLUSH - NO LITES OR LOUVERS APPROVED
  - DOOR VIEWERS ARE PERMITTED TO BE USED IN A DOOR WITH A DESIGN RATING OF +/-75 PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION. MAXIMUM 2 VIEWERS PER DOOR.
- FRAME CONSTRUCTION
  - MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
  - STEELCRAFT FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 4, SHT. 10). REPUBLIC DOORS FRAME OPTIONS AVAILABLE AS ME-SERIES AND SE-SERIES (SEE TABLE 11, SHT. 28).
- FOR STEELCRAFT DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3, SHT. 9. FOR REPUBLIC DOORS DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 10, SHT. 28.
- FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 10 & 28 FOR DETAIL.

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11819 N. PENNSYLVANIA STREET  
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PH: (317) 715-4073

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GENERAL NOTES & DESIGN PRESSURE TABLE

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954)399-8478

FAX: (954)744-4738

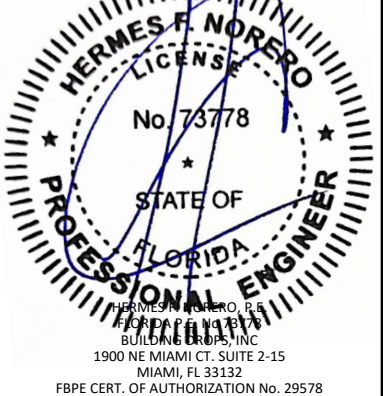
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| REMARKS           | BY | DATE     |
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| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2025.12.11 13:44:00 -0500'



FL12400

DATE: 04.13.22

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CHK. BY: HFN

SCALE: NTS

DWG. #: IRFD07

SHEET:

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TABLE 1: DOOR CONFIGURATIONS AND LOCKING HARDWARE

| DOOR CONFIGURATION | MAXIMUM DESIGN PRESSURE, PSF |                       | MAXIMUM DOOR OPENING SIZE, IN |        | LOCKING HARDWARE DESCRIPTION       |                                |                                         |            | COMMENTS                                                               |
|--------------------|------------------------------|-----------------------|-------------------------------|--------|------------------------------------|--------------------------------|-----------------------------------------|------------|------------------------------------------------------------------------|
|                    | POSITIVE                     | NEGATIVE              | WIDTH                         | HEIGHT | HARDWARE FAMILY                    | MODEL/SERIES                   | STRIKE MODELS                           | BRAND      |                                                                        |
| 1                  | 75                           | 75                    | 96                            | 96     | MORTISE LOCK                       | L/LV9400, AD-MD, CO-MD, PM400  | 10-072                                  | SCHLAGE    | FUNCTIONS WITH DEADBOLT 3/4" MIN. THROW LATCH & 1" MIN. THROW DEADBOLT |
|                    |                              |                       |                               |        |                                    | LE-MD, LEB-MD                  | 10-072                                  | SCHLAGE    |                                                                        |
|                    |                              |                       |                               |        |                                    | XE360-M-D                      | 10-072                                  | SCHLAGE    |                                                                        |
|                    |                              |                       |                               |        |                                    | MA                             | ANSI                                    | FALCON     |                                                                        |
| 1A                 | 60                           | 60                    | 96                            | 96     | MORTISE LOCK                       | L/LV9000, AD-MS, CO-MS, PM     | 10-072                                  | SCHLAGE    | FUNCTIONS WITHOUT DEADBOLT, 3/4" MIN. THROW LATCH                      |
|                    |                              |                       |                               |        |                                    | LE-MS, LEB-MS, LE-MB, LEB-MEB  | 10-072                                  | SCHLAGE    |                                                                        |
|                    |                              |                       |                               |        |                                    | XE360-M-B & XE360-M-I          | 10-072                                  | SCHLAGE    |                                                                        |
|                    |                              |                       |                               |        |                                    |                                |                                         |            |                                                                        |
| 2                  | 55                           | 55                    | 96                            | 96     | CYLINDRICAL LOCK                   | AL                             | 10-025                                  | SCHLAGE    | 1/2" MIN. THROW LATCH                                                  |
| 3                  | 65                           | 65                    | 96                            | 96     | CYLINDRICAL LOCK                   | D, ND, NDE, NDEB, AD-CY, CO-CY | 10-025                                  | SCHLAGE    | 1/2" MIN. THROW LATCH                                                  |
|                    |                              |                       |                               |        |                                    | ALX, PC                        | ANSI                                    |            | 1/2" MIN. THROW LATCH (13-247, 14-028)                                 |
|                    |                              |                       |                               |        |                                    | T, TM                          | ANSI                                    | FALCON     | 1/2" THROW LATCH (23981145)                                            |
| 4                  | 75                           | 75                    | 96                            | 96     | CYLINDRICAL LOCK                   | D, ND, NDE, NDEB, AD-CY, CO-CY | 10-025                                  | SCHLAGE    | 3/4" MIN. THROW LATCH                                                  |
|                    |                              |                       |                               |        |                                    | ALX, PC                        | ANSI                                    |            | 3/4" MIN. THROW LATCH (14-042)                                         |
|                    |                              |                       |                               |        |                                    | T, TM                          | ANSI                                    | FALCON     | 3/4" MIN. THROW LATCH (23981152)                                       |
| 5                  | 90 SEE NOTE 4, SHT. 2        | 90 SEE NOTE 4, SHT. 2 | 96                            | 96     | RIM EXIT DEVICE                    | XP98, XP99, XP98-F, XP99-F     | 909/954                                 | VON DUPRIN | FOR PAIRS USE HH9954 MULLION BY VON DUPRIN                             |
| 5A                 | 70                           | 70                    | 96                            | 96     | RIM EXIT DEVICE                    | XP98, XP99, XP98-F, XP99-F     | 909/954                                 | VON DUPRIN | FOR PAIRS USE 9964 OR KR9964 MULLION BY VON DUPRIN                     |
| 6                  | 70                           | 70                    | 96                            | 96     | RIM EXIT DEVICE                    | 88-F                           | 468                                     | VON DUPRIN | FOR PAIRS USE VON DUPRIN HARDWARE MULLION                              |
|                    |                              |                       |                               |        |                                    | 98, 99, 98-F, 99-F             | 499F                                    | VON DUPRIN |                                                                        |
|                    |                              |                       |                               |        |                                    | HH78, HH78-F                   | 499F                                    | VON DUPRIN |                                                                        |
| 7                  | 70                           | 70                    | 96                            | 96     | SURFACE VERTICAL ROD EXIT          | 98/9927 & 98/9927-F            | 299F/499F TOP, 304L BOTTOM              | VON DUPRIN | -                                                                      |
|                    |                              |                       |                               |        |                                    | HH7827, HH7827-F               | 299F/499F TOP, 304L BOTTOM              | VON DUPRIN | -                                                                      |
|                    |                              |                       |                               |        |                                    | F-25-V & 25-V                  | 3788 TOP, 2130 BOTTOM                   | FALCON     | -                                                                      |
| 8                  | 70                           | 70                    | 96                            | 96     | CONCEALED VERTICAL ROD EXIT DEVICE | 9847-F, 9947-F, HH9847, HH9947 | 338 TOP, 304L BOTTOM                    | VON DUPRIN | HH998/9947 DEVICES HAVE A 2-3/4" BACKSET                               |
|                    |                              |                       |                               |        |                                    | HH7847, HH7847-F               | 338 TOP, 304L BOTTOM                    | VON DUPRIN | HH7847 DEVICES HAVE A 2-3/4" BACKSET                                   |
|                    |                              |                       |                               |        |                                    | F-25-C                         | 4188 TOP, 2130 BOTTOM                   | FALCON     | -                                                                      |
| 9                  | 70                           | 70                    | 96                            | 96     | THREE-POINT LATCHING DEVICE        | 9857, 9957, 9857-F, 9957-F     | 299F/499F TOP, 499F MIDDLE, 304L BOTTOM | VON DURPIN | FOR PAIRS USE VON DUPRIN HARDWARE MULLION                              |
| 10                 | 70                           | 70                    | 48                            | 96     |                                    | 9857, 9957, 9857-F, 9957-F     | 299F/499F TOP/MIDDLE, 304L BOTTOM       | VON DUPRIN | SEE NOTE 2, SHT. 2                                                     |
| 11                 | 70                           | 55                    | 96                            | 96     | RIM EXIT DEVICE                    | F-25-R & 25-R                  | 499F                                    | FALCON     | FOR PAIRS USE VON DUPRIN HARDWARE MULLION                              |

NOTES:

1. FOR DOOR CONFIGURATIONS 1, 1A, 2, 3, & 4, INACTIVE LEAF REQUIRES A Z-ASTRAGAL AND IVES SB360 SURFACE BOLTS IN TOP AND BOTTOM, EACH ATTACHED WITH 4X #12-24 OVAL HEAD MACHINE SCREWS AND SEX BOLTS.
2. DOOR CONFIGURATION 10 IS USING FIXED HOLLOW METAL MULLION BETWEEN TWO DOORS (SEE MULLION DETAIL IN SHEET 22)
3. SEE SHEETS 23-25 FOR LOCKING HARDWARE AND SHT. 22 HARDWARE MULLION DETAILS
4. DOOR CONFIGURATION 5 IS RATED FOR MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD 11A OR FOR DOOR OPENINGS UP TO 3'-0" X 7'-0" WITH NGP THRESHOLD 11B AND ±50 PSF FOR DOOR OPENINGS UP TO 4'-0" X 8'-0" WITH NGP THRESHOLD 11B WHEN WATER INFILTRATION REQUIREMENT IS NEEDED. SEE SHEETS 17 AND 18.
- 4.1 DOOR CONFIGURATION 5 IS WATER RATED FOR A MAXIMUM DESIGN PRESSURE UP TO ±75 WITH ZERO INT'L THRESHOLD (11A) OPTIONS AND UP TO ±90 PSF WITH THE NON-WATER RATED NGP 950 THRESHOLD (11B) OPTIONS WHEN WATER INFILTRATION REQUIREMENT IS NOT REQUIRED. SHEETS 19 & 20.
5. SCHLAGE AL-SERIES CYLINDRICAL LOCK (DOOR CONFIGURATION 2) IS LIMITED TO ±55 PSF MAXIMUM DESIGN PRESSURE



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TABLE 1: DOOR CONFIG.  
& LOCKING HARDWARE

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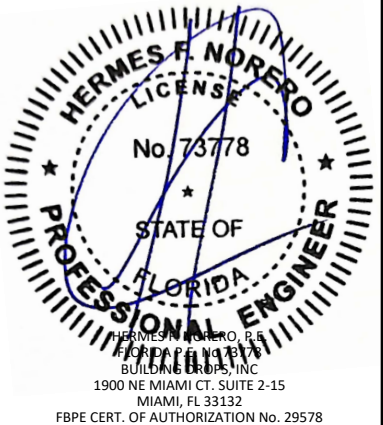
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| CHK. BY: | HFN      |
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| DWG. #:  | IRFD07   |
| SHEET:   |          |

2



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DOOR CONFIGURATIONS 1-3

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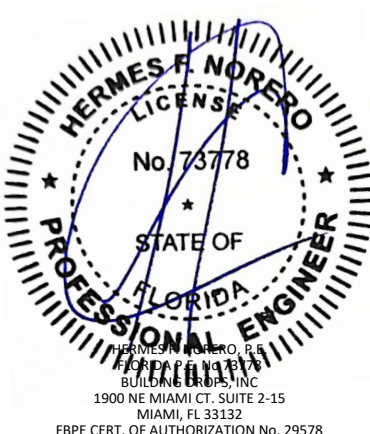
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CHK. BY:  
HFN

SCALE: NTS

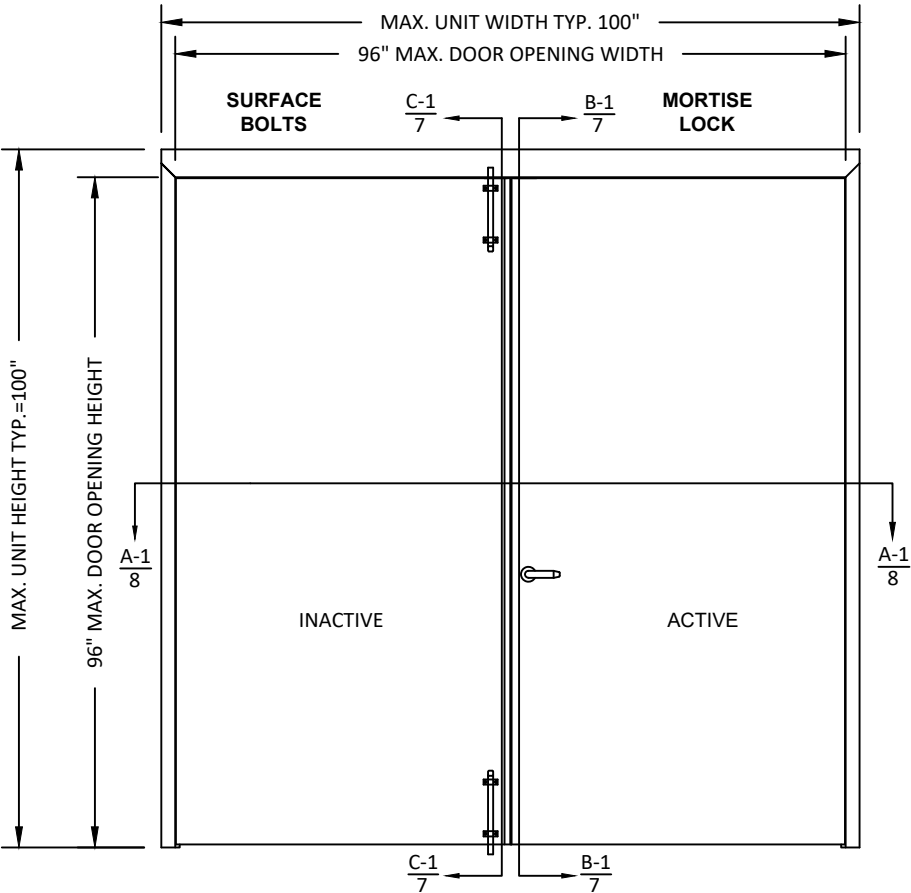
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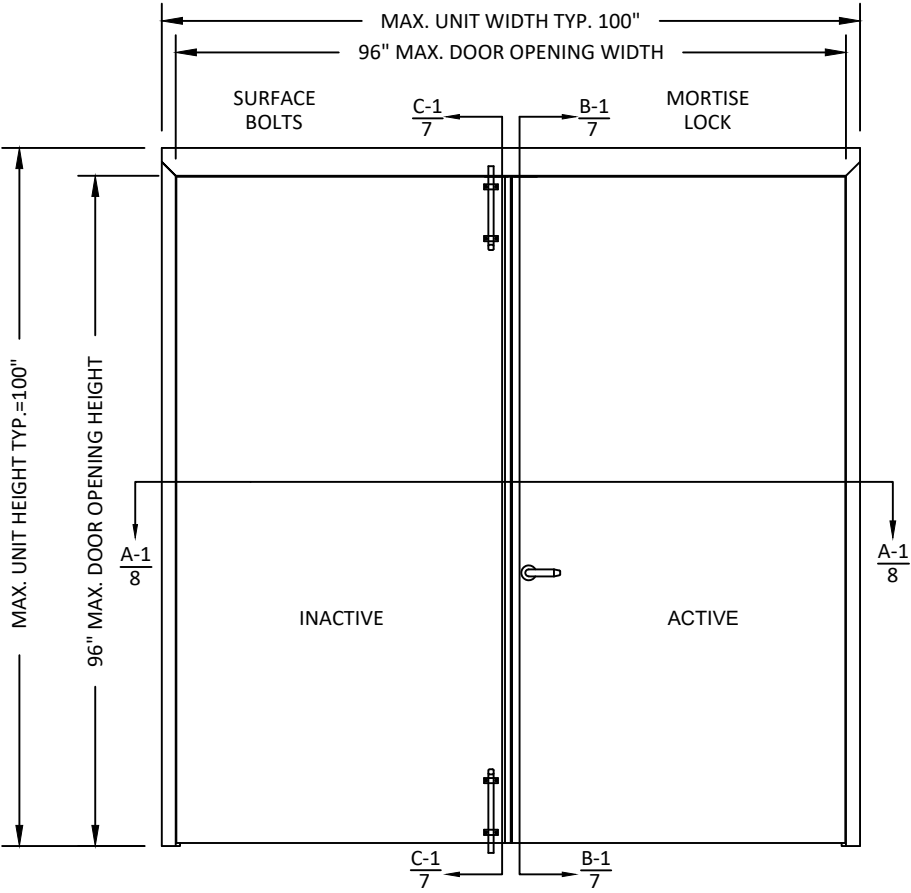
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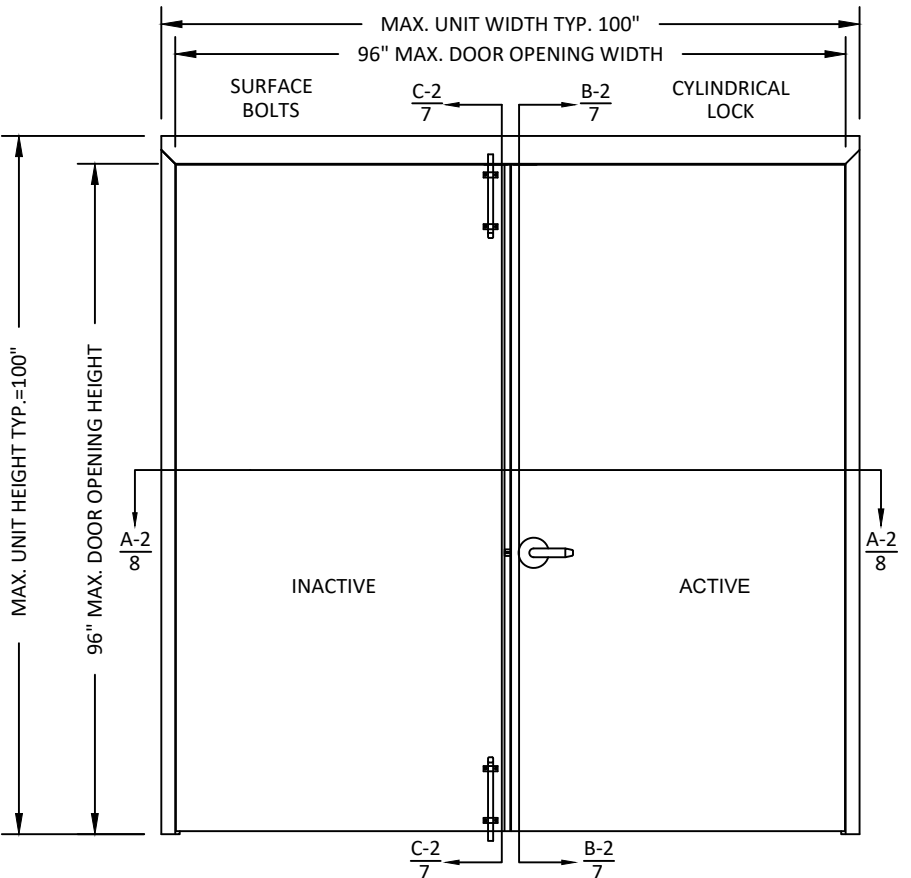
CONFIGURATION 1



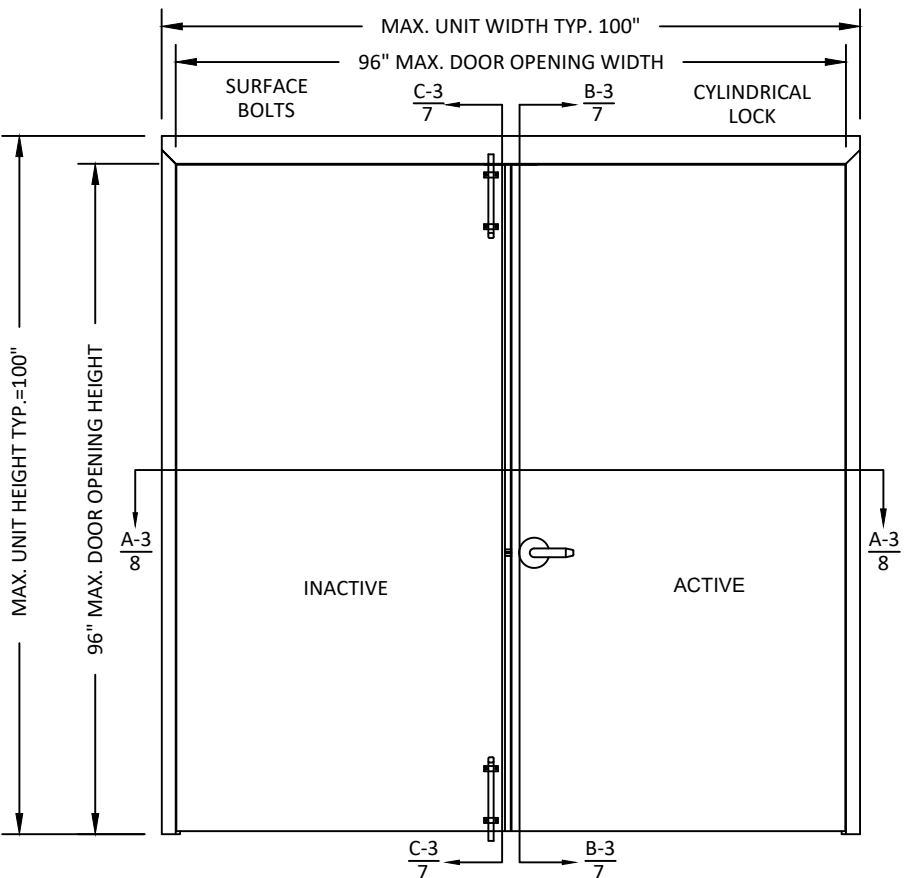
CONFIGURATION 1A

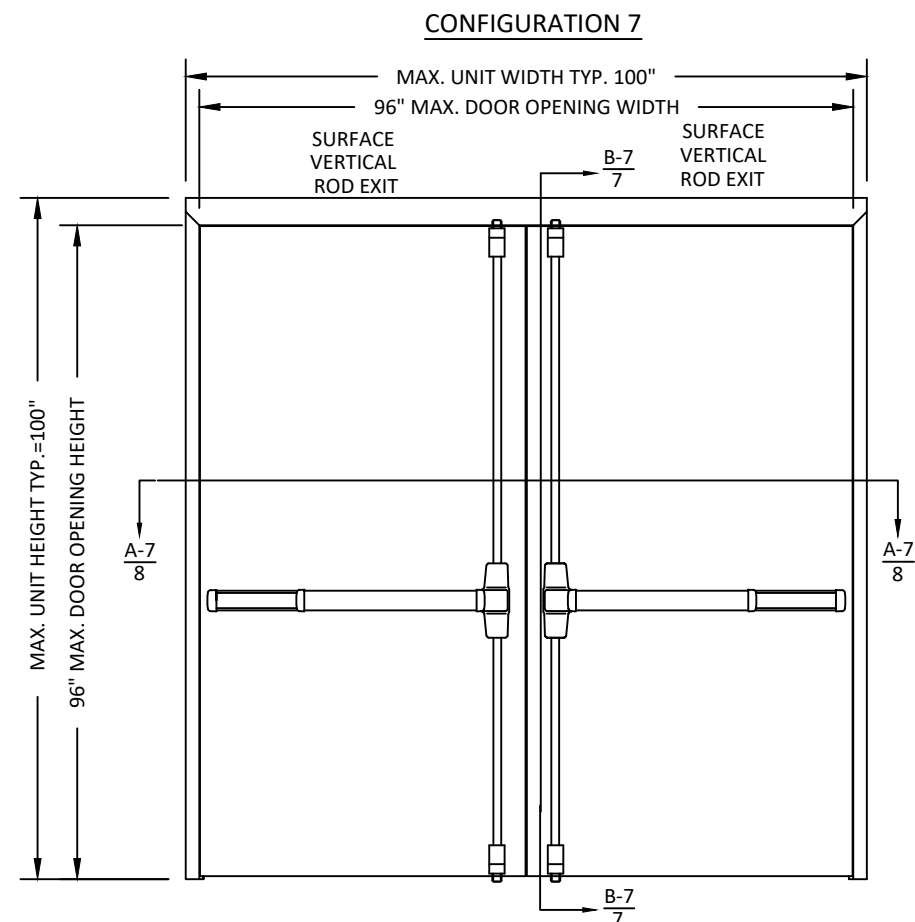
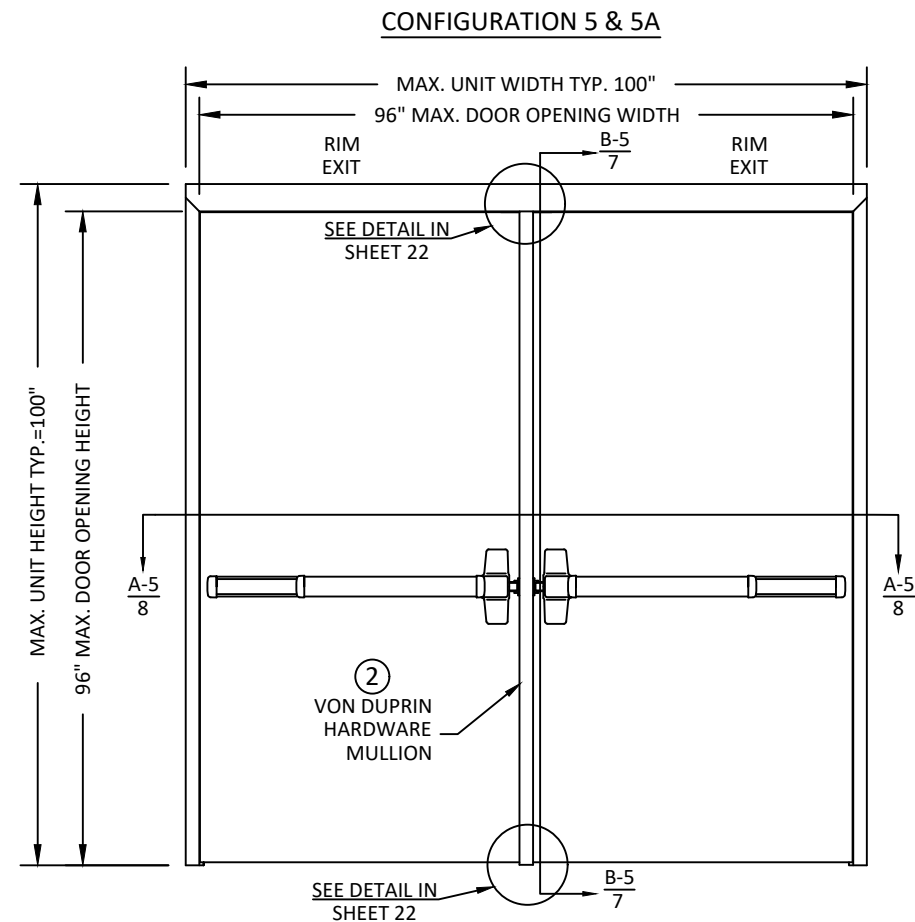
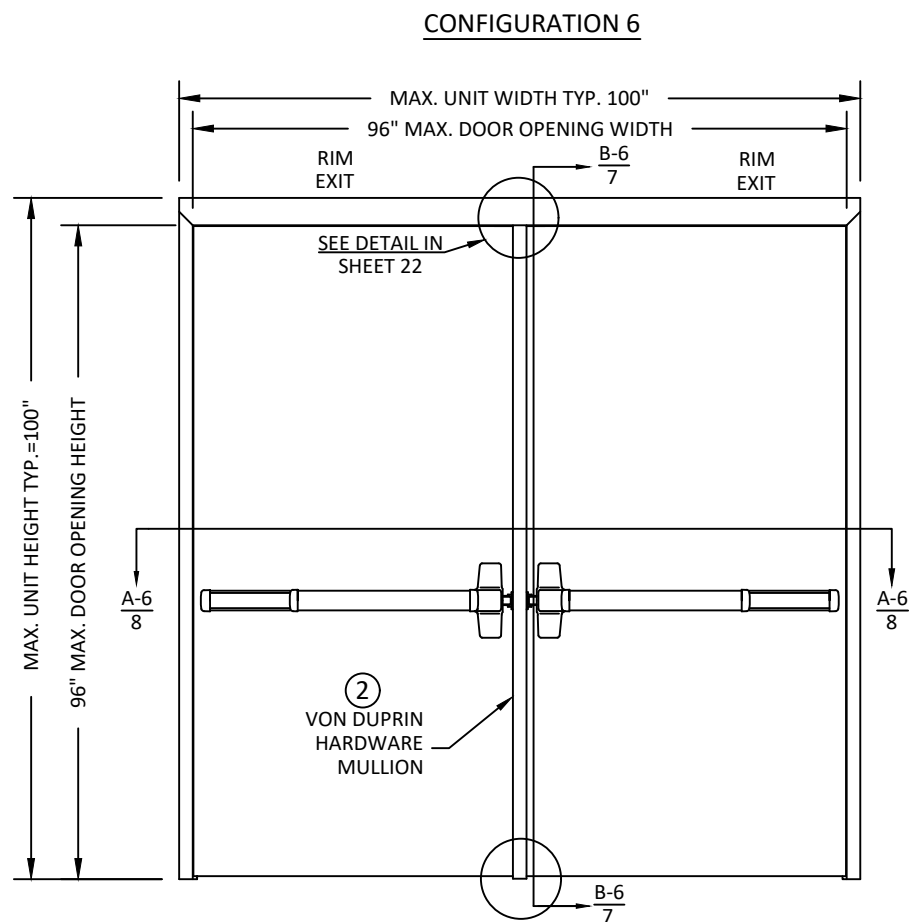
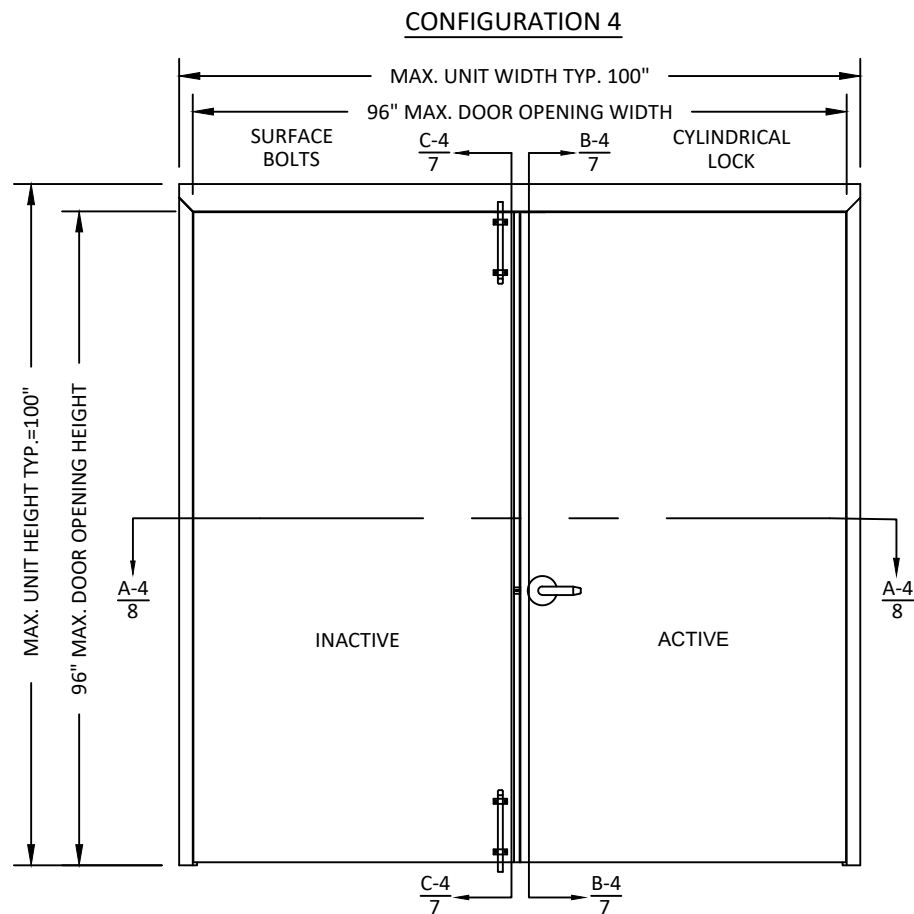


CONFIGURATION 2



CONFIGURATION 3





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DOOR CONFIGURATIONS 4-7

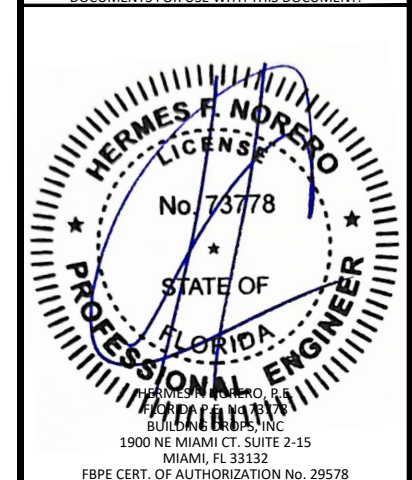
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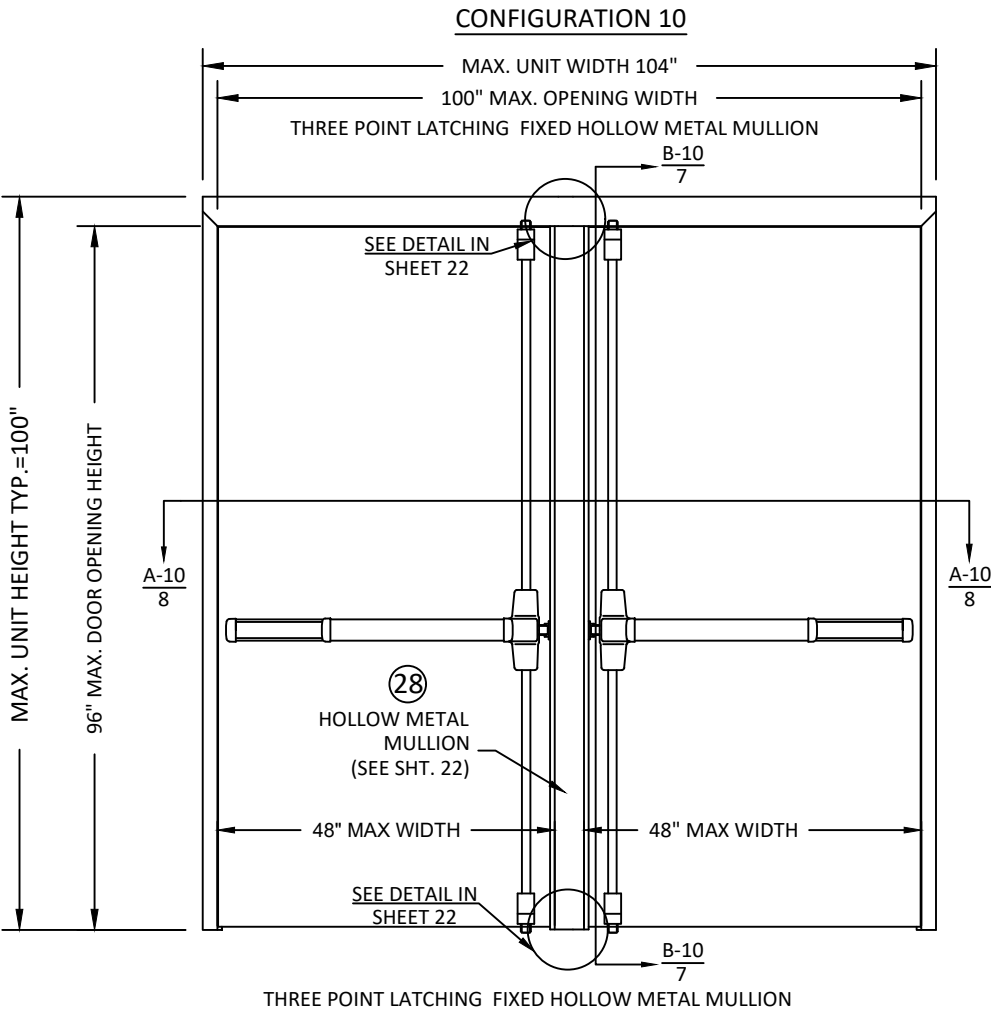
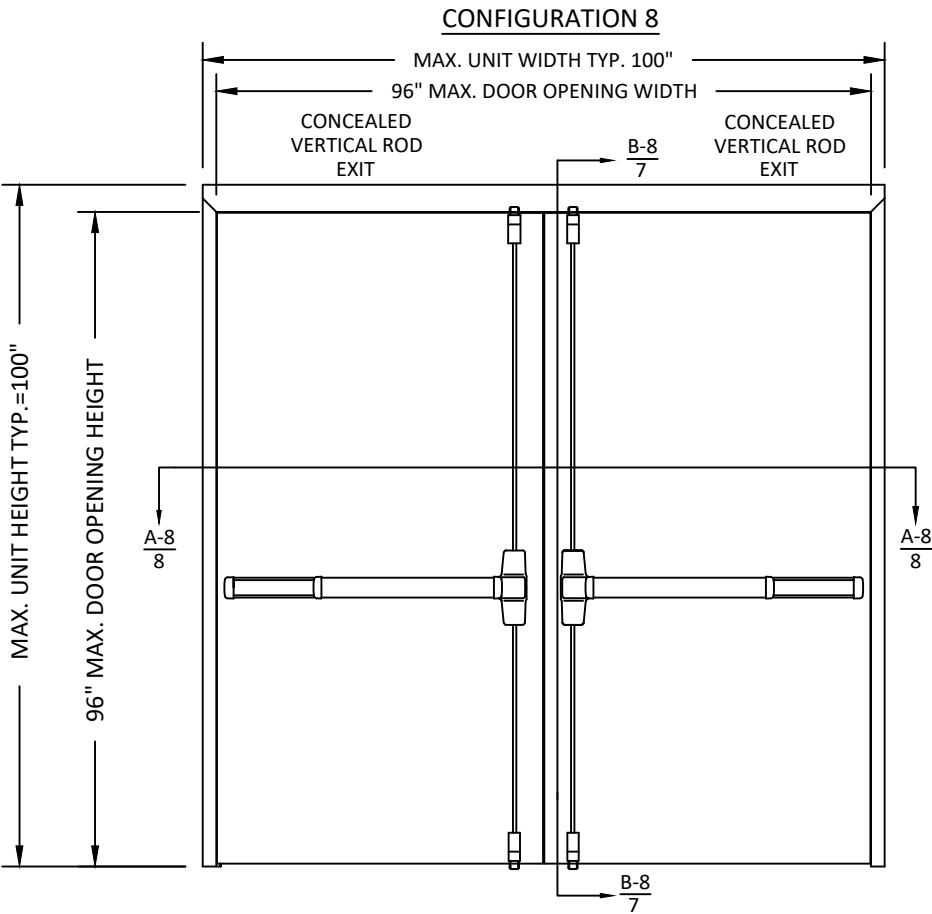
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DWG. #: IRFD07

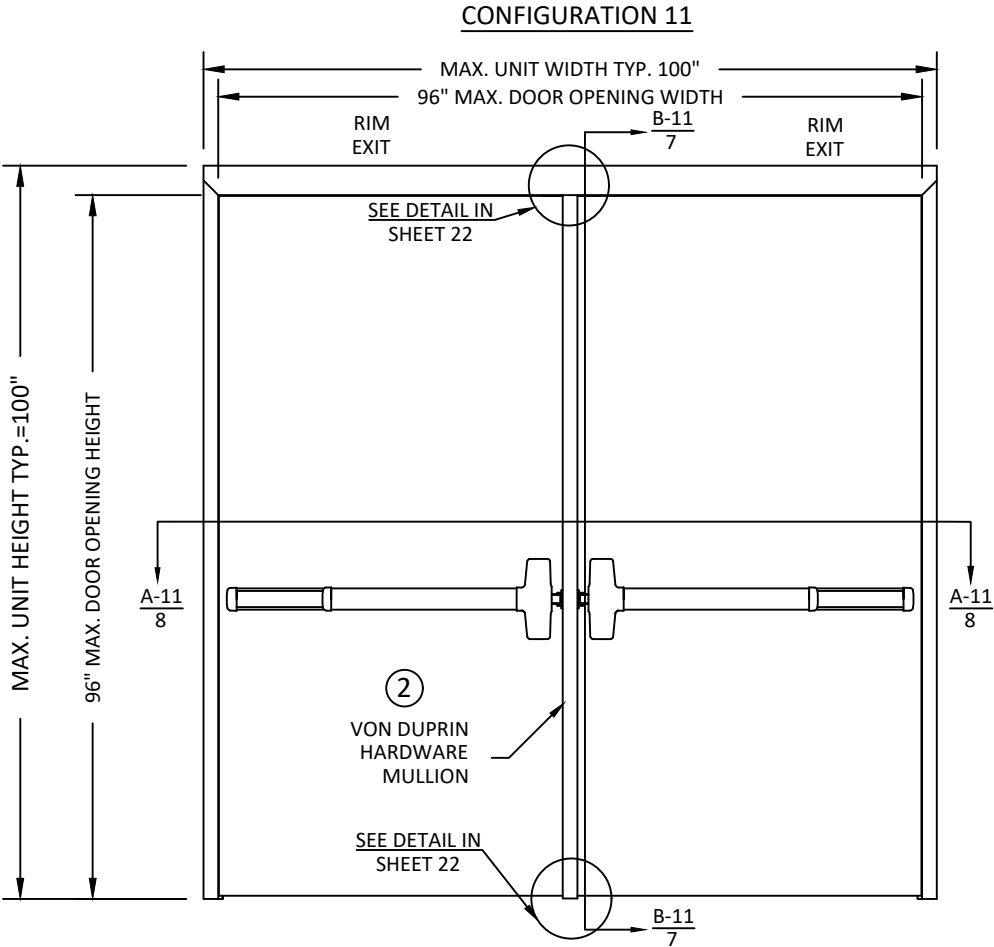
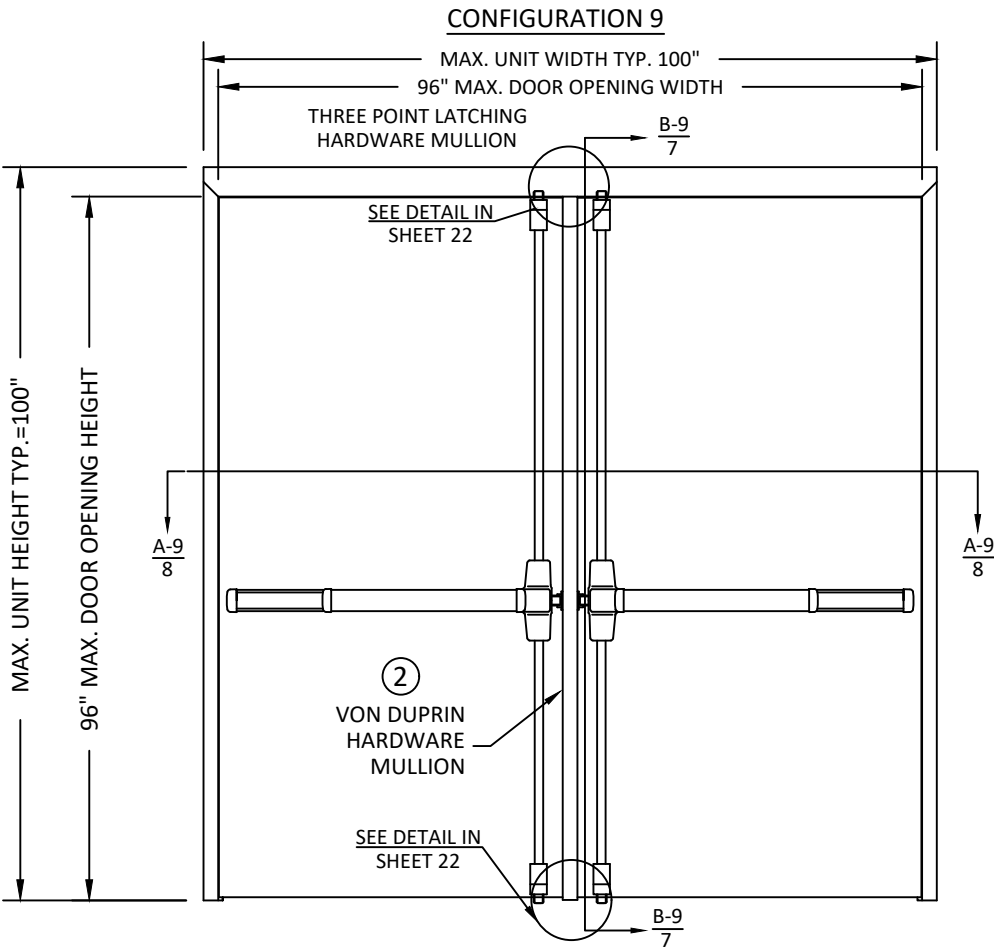
SHEET:

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THREE POINT LATCHING FIXED HOLLOW METAL MULLION



RIM EXIT DEVICES WITH HARDWARE MULLION



ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

DOOR CONFIGURATIONS 8-11

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



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| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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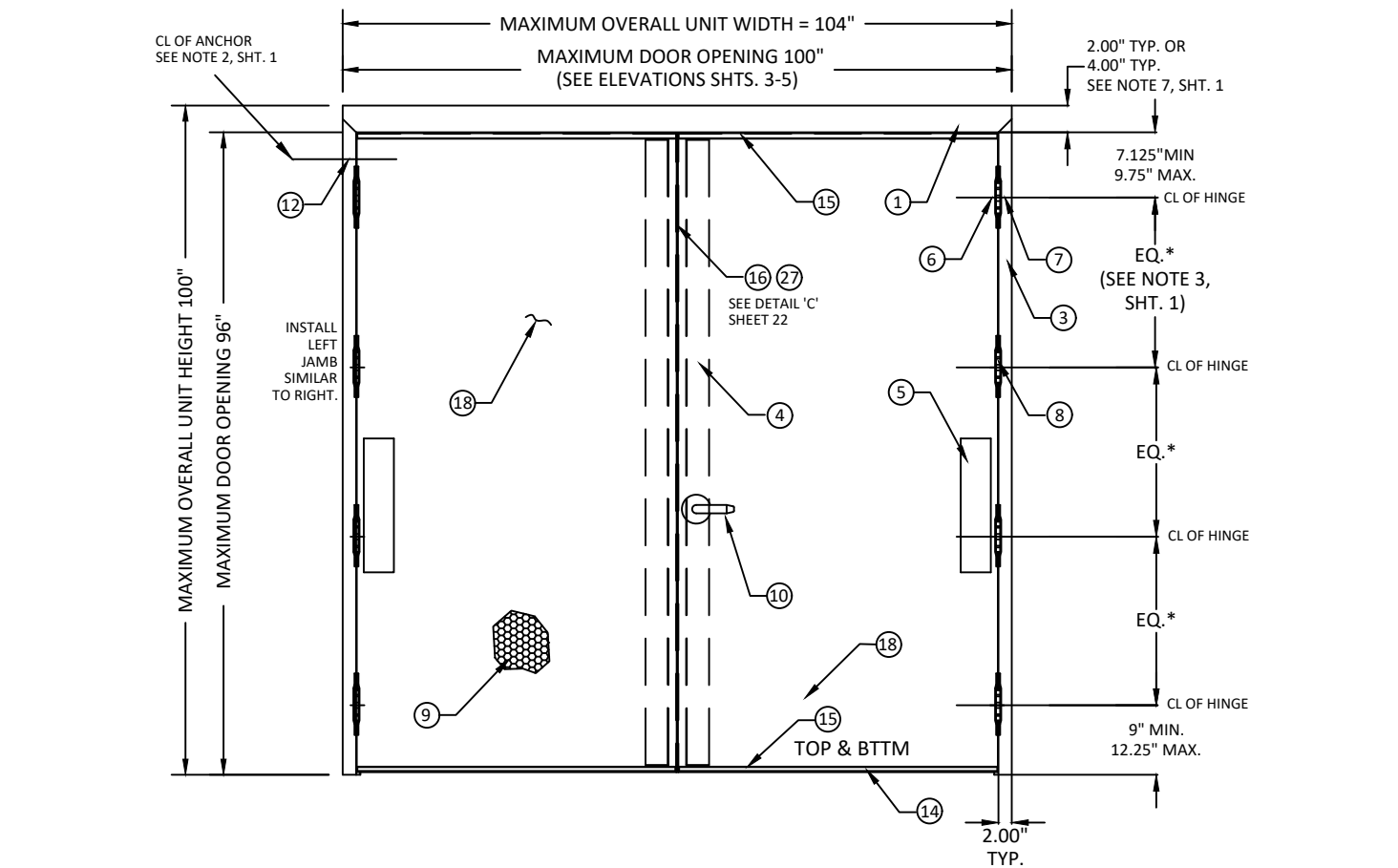
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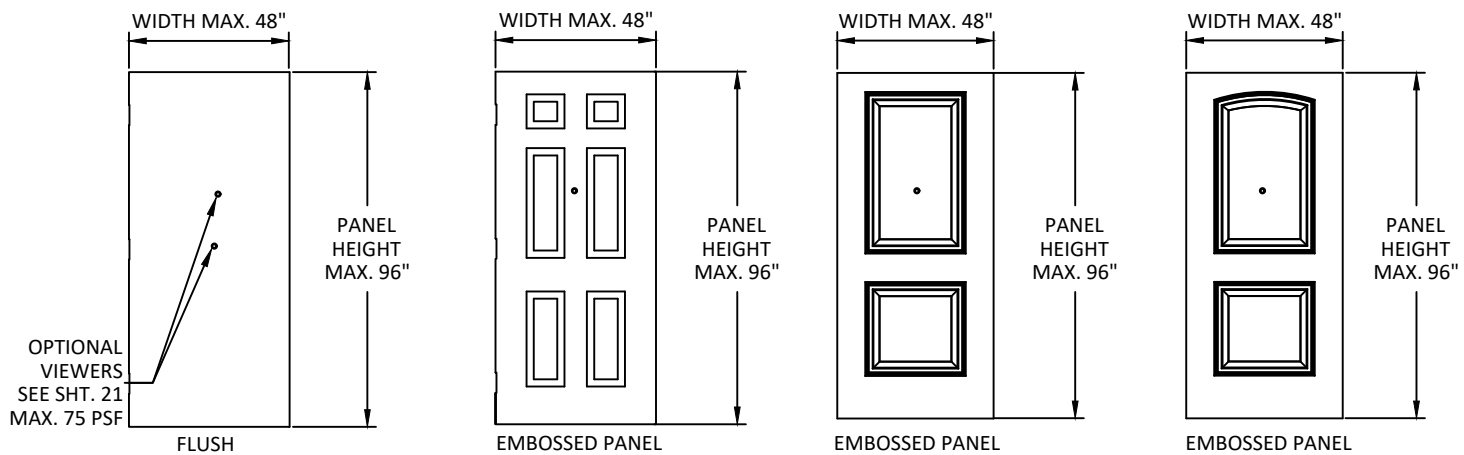
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OUTSWING DOOR  
(EXTERIOR VIEW)  
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE



AVAILABLE DOOR PANEL CONFIGURATIONS



1. DOOR CONSTRUCTION
- 1.1. MINIMUM DOOR THICKNESS - 1 3/4"
- 1.2. DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT AVAILABILITY FROM MANUFACTURER (SEE SHEET 2 FOR AVAILABLE HARDWARE)
- 1.3. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION. MAXIMUM 2 VIEWERS PER DOOR

TABLE 2: (FOR OPTION 2 SEE TABLE 9 SHEET 26)

| ITEM | QUANTITY        | DESCRIPTION                                                 | MATERIAL                  | SIZE                                           |
|------|-----------------|-------------------------------------------------------------|---------------------------|------------------------------------------------|
| 1    | 1               | HEAD, SEE SHT. 10                                           | .053" MIN. STL            | MAX. 100"                                      |
| 2    | 1               | 2A) VON DUPRIN HH9954 HARDWARE MULLION                      | .312" A500 STL            | MAX. 96" HEIGHT                                |
|      |                 | 2B) VON DUPRIN 9964 OR KR9964 HARDWARE MULLION              | .118" A500 STL            |                                                |
| 3    | 2               | HINGE JAMB, SEE SHT. 10                                     | .053" MIN. STL            | MAX. 100" HEIGHT                               |
| 4    | 2               | LOCK SIDE REINFORCEMENT CHANNEL                             | .093" MIN. STL            | 3.5" X 93.44" MAX.                             |
| 5    | AS NEEDED       | HINGE SIDE PANIC REINFORCEMENT                              | .067" MIN. STL            | MAX. 20"                                       |
| 6    | NOTE 3, SHT. 1  | HINGE REINFORCEMENT DOOR                                    | .167" MIN. STL            | 1.23" X 9.19" MIN.                             |
| 7    | NOTE 3, SHT. 1  | HINGE REINFORCEMENT FRAME                                   | .167" MIN. STL            | 1.5" X 9.19" MIN.                              |
| 8    | NOTE 3, SHT. 1  | 4.5" MIN. BUTT HINGES (SEE SHT. 21)                         | .134 MIN.                 | (8) #12-24 MS PER HINGE                        |
|      |                 | OPTIONAL CONTINUOUS HINGE (SEE SHEET 21)                    | .075" MIN.STL /.110 ALUM. | MAX. 95"                                       |
| 9    | 2               | CORE MATERIAL:                                              |                           |                                                |
|      |                 | D) HONEYCOMB                      C) STEEL STIFFENED        | SEE SHT. 9                |                                                |
|      |                 | A&F) POLYSTYRENE    B&F) POLYURETHANE/POLYISOCYANURATE      |                           |                                                |
|      |                 | E) MINERAL BOARD TEMPERATURE RISE CORE                      |                           |                                                |
| 10   | 2               | LOCKING HARDWARE - LOCKSET                                  | SEE SHTS. 2, 23-25        |                                                |
| 11   | 1               | THRESHOLD SILL W/BUMPER GASKET                              |                           | 5.0" X 0.5" X 96" MAX                          |
|      |                 | 11A) 566 ZERO WATER RATED, SHTS. 17 & 18, NON WATER SHT. 19 | .125" ALUM. 6063 T5       |                                                |
|      |                 | 11B) 950A NGP WATER RATED SHT. 18, NON WATER SHT. 20        | .078" ALUM. 6063 T5       |                                                |
|      |                 | 11C) 65 ZERO NON WATER RATED SEE SHT. 19                    | 0.125" ALUM. 6063 T5      |                                                |
|      |                 | 11D) 568 ZERO NON WATER RATED SEE SHT. 19                   | 0.125" ALUM. 6063 T5      | 6.0" X 0.5" X 96" MAX.                         |
| 12   | NOTE 2, SHT. 1  | JAMB ANCHOR                                                 | SEE SHTS. 11-15 & 29-33   | -                                              |
| 13   | SEE SHTS. 17-20 | 13A) PS074 DOOR SEAL                                        | TPE                       | VARIES                                         |
|      |                 | 13B) 188S, 13C) 117S, 13D)8144S, 13E)8150S, DOOR SEAL ZERO  | SILICONE                  | -                                              |
| 14   | 2               | FAS-SEAL DOOR SWEEP. SEE SHTS. 17-20                        | TPE                       | MAX. 48"                                       |
| 15   | 4               | END CHANNEL (14 GAGE - INVERTED)                            | .067" MIN. STL            | .69" X 1.66" X 48" MAX.                        |
| 16   | 1               | 16A) 328 SPLIT ASTRAGAL BY ZERO INT'L                       | SEE SHTS. 17 & 19         | -                                              |
|      |                 | 16B) 137 SPLIT ASTRAGAL BY NGP                              | SEE SHT. 20               |                                                |
| 17   | AS NEEDED       | CAULK - BUTYL RUBBER OR SILICONE                            | SEE SHTS. 17-20           | -                                              |
| 18   | 2               | DOOR SLAB (16 OR 14 GA)                                     | SEE SHT. 9                | 4' BY 8' MAX                                   |
| 19   | 1               | 19A) 8150S DOOR SEAL BY ZERO INT'L SEE SHTS. 17             | TPE                       | MAX 24'                                        |
|      |                 | 19B) 188S DOOR SEAL BY ZERO INT'L SEE SHTS. 18              |                           |                                                |
| 20   | 4               | 202N DOOR SWEEP BY NGP, SHT. 18                             | TPE                       | MAC 48"                                        |
| 21   | 1               | 21A) 139 DOOR SWEEP BY ZERO INT'L                           | SEE SHTS. 17 & 18         | MAX 96" FOR VERTICAL<br>MAX 48" FOR HORIZONTAL |
|      |                 | 21B) 328 DOOR SWEEP BY ZERO INT'L                           |                           |                                                |
|      |                 | 21C) 200N DOOR SWEEP BY NGP                                 |                           |                                                |
| 22   | 2               | 22A) 475 ADJUSTABLE SEAL BY ZERO INT'L SEE SHT. 18          | TPE                       | MAX 48"                                        |
|      |                 | 22B) 170N ADJUSTABLE SEAL BY NGP SEE SHT. 18                |                           |                                                |
| 23   | 1               | 23A) 142 RAIN DRIP BY ZERO INT'L                            | -                         | MAX. 104"                                      |
|      | 2               | 23B) 11 RAIN DRIP BY ZERO INT'L                             | SEE SHTS. 17 & 18         | MAX. 48"                                       |
|      |                 | 23C) 16A RAIN DRIP BY NGP                                   |                           |                                                |
| 24   | 2               | 24A) TOP GALV. A60 ASTM A924                                | .020" MIN. STL            | MAX. 48"                                       |
|      |                 | 24B) 18 GA DOOR FLUSH TOP CAP                               | .047" MIN. STL            |                                                |
| 25   | 2               | IVES SB360 SURFACE BOLT                                     | STEEL                     | 12" MIN. - 24" MAX. LENGTH                     |
| 26   | 1               | ASA STRIKE                                                  | -                         | -                                              |
| 27   | 1               | Z-ASTRAGAL AS REQUIRED FOR CONFIGS. 1, 1A, 2, 3 & 4         | .067" MIN. STL            | MAX. 95.5"                                     |
| 28   | 1               | HOLLOW METAL MULLION (SINGLE OR DOUBLE RABBET)              | SEE SHT. 10               | MAX. 96"                                       |
| 29   | 1               | IVES 698/U698 DOOR VIEWER                                   | BRASS                     | -                                              |



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COMMERCIAL STEEL DOOR  
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STEELCRAFT: OPENING DIMENSIONS  
& BOM

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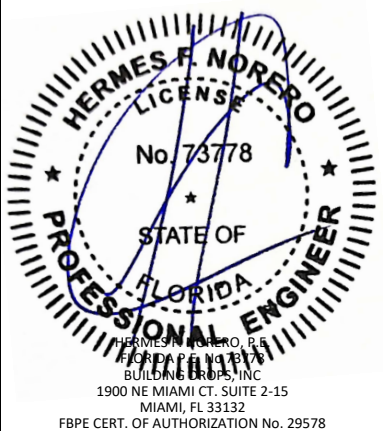
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OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

DOOR & FRAME VERTICAL  
SECTION VIEWS

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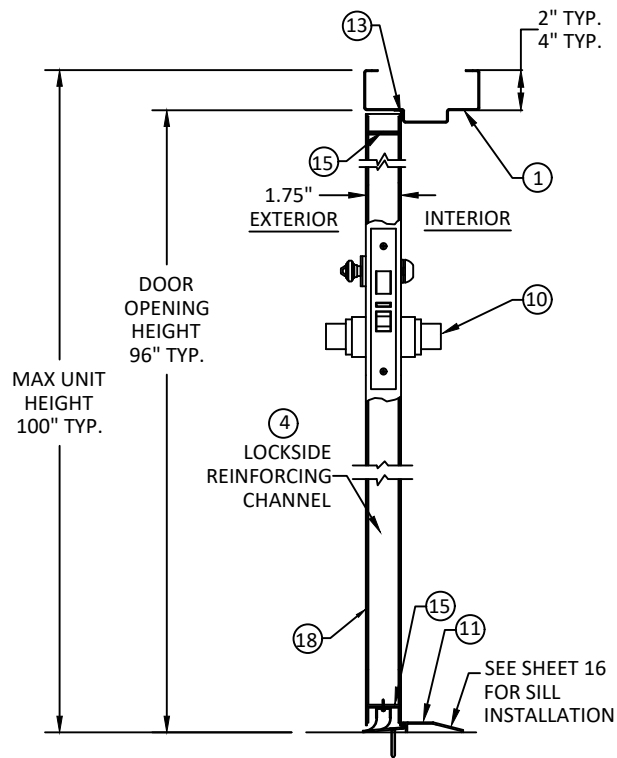
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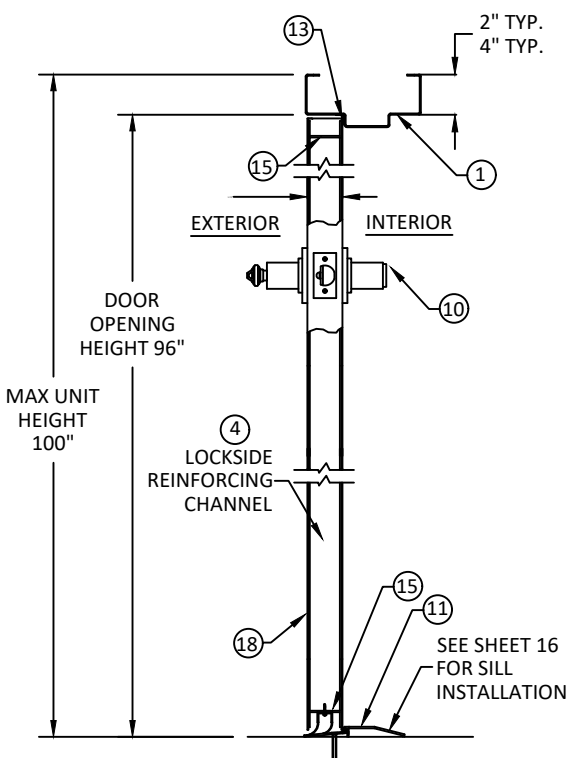
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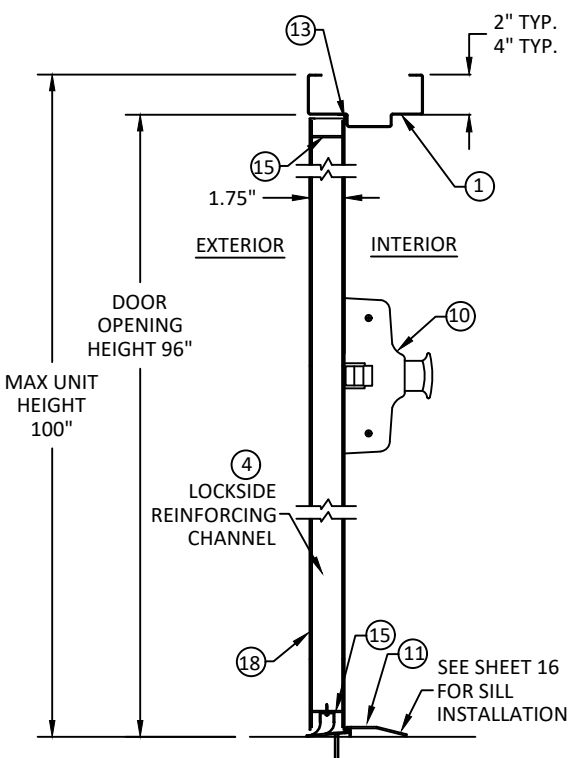
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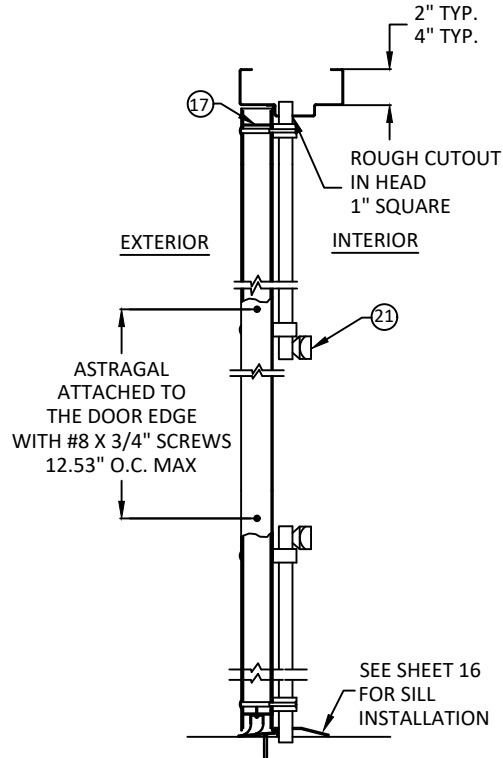
MORTISE LOCK  
SECTION B-1  
(SEE SHT. 3)



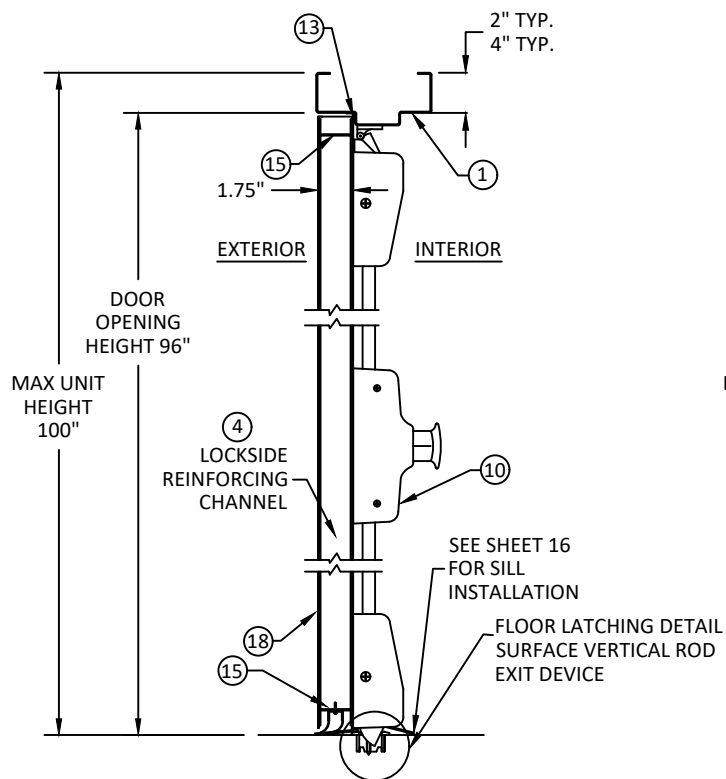
CYLINDRICAL LOCK  
SECTIONS B-2, B-3, B-4 (SEE SHTS. 3 & 4)



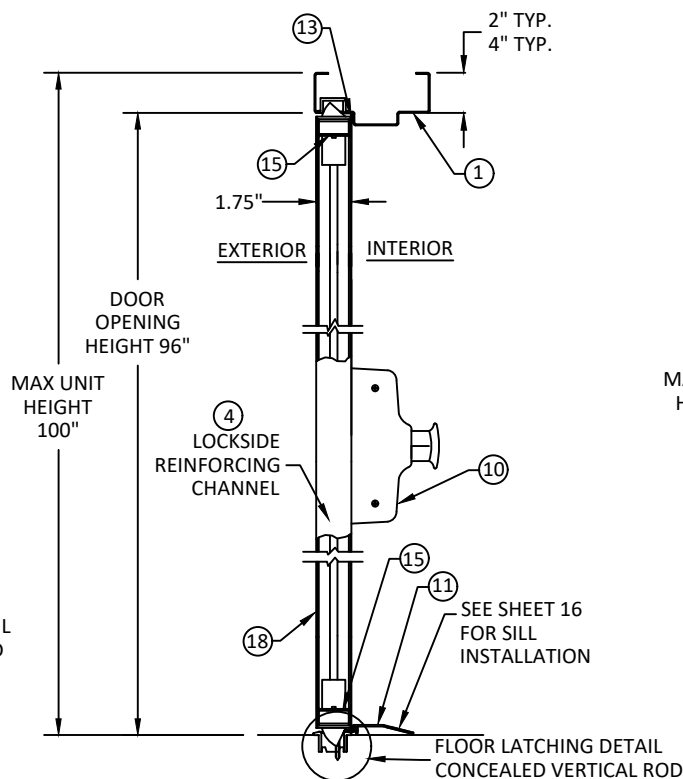
RIM EXIT DEVICE  
SECTIONS B-5, B-6, B-11 (SEE SHT. 4)



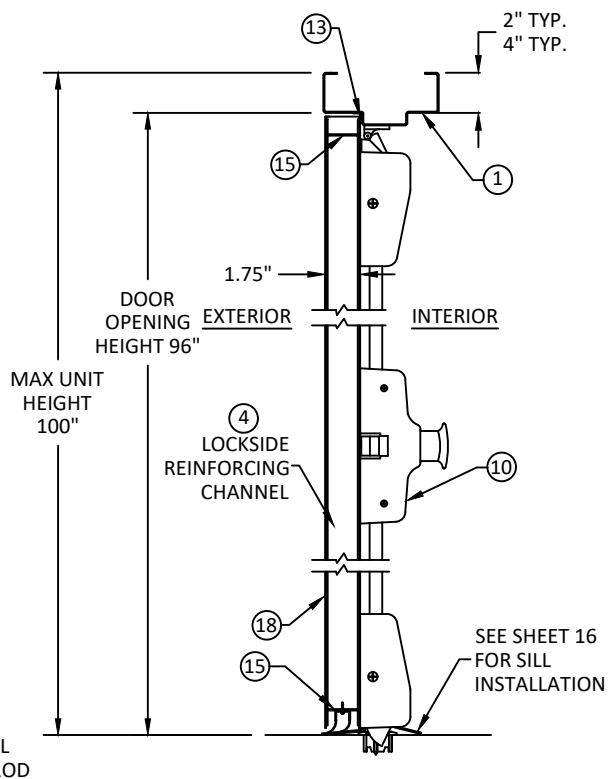
INACTIVE LEAF WITH IVES 360  
SURFACE BOLTS  
IN TOP AND BOTTOM  
SECTIONS C-1, C-2, C-3, C-4 (SEE SHTS. 3 & 4)



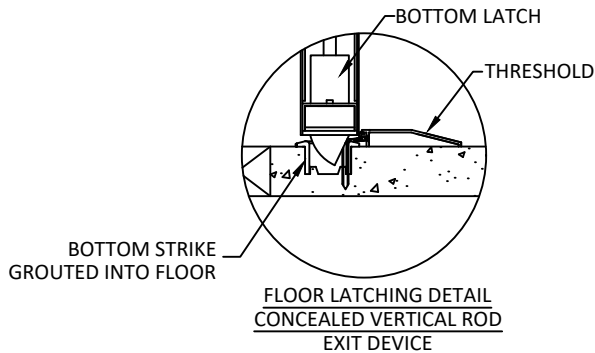
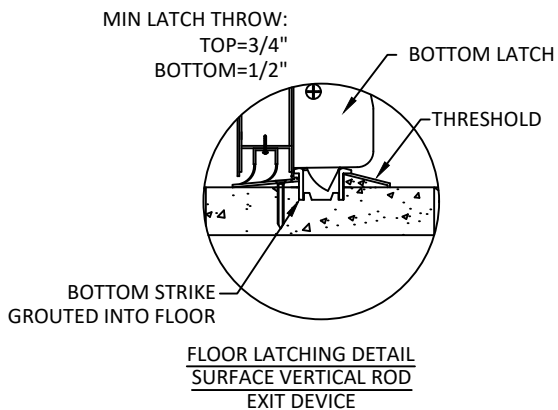
SURFACE VERTICAL ROD EXIT DEVICE  
SECTION B-7 (SEE SHT. 4)

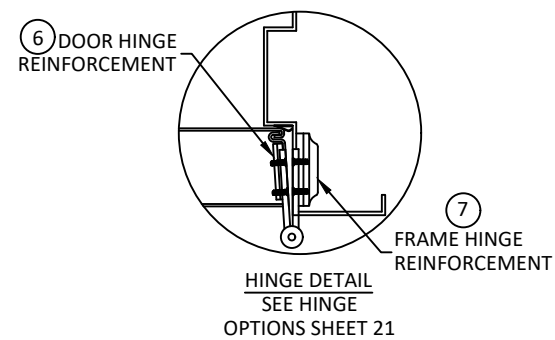
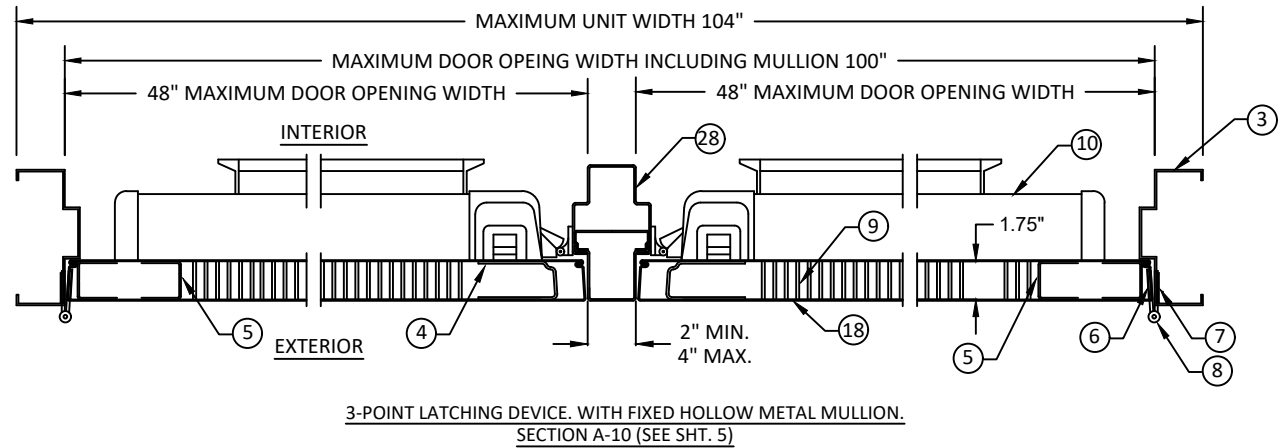
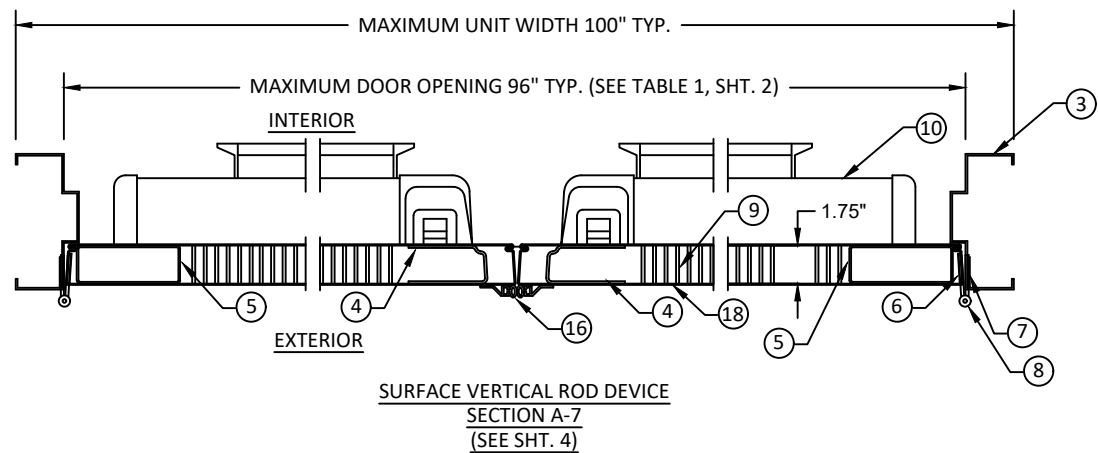
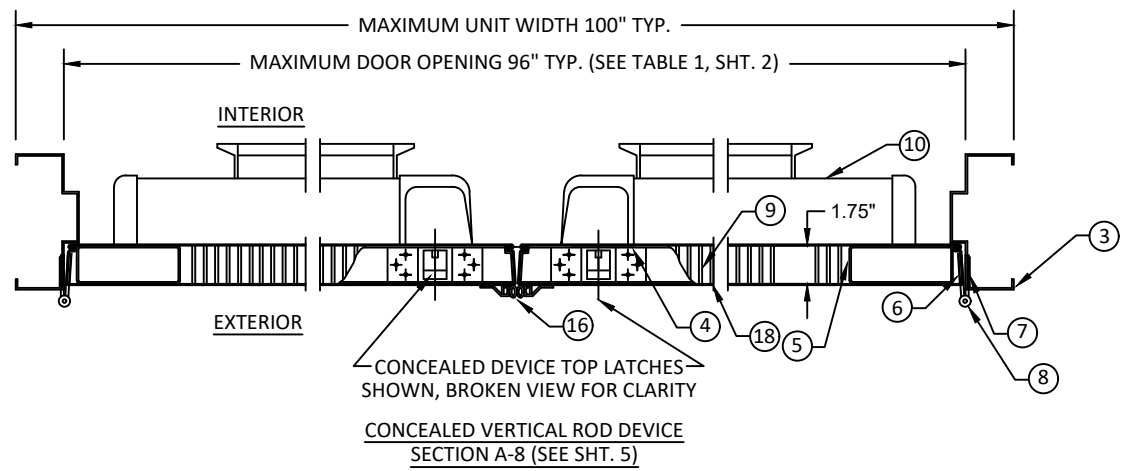
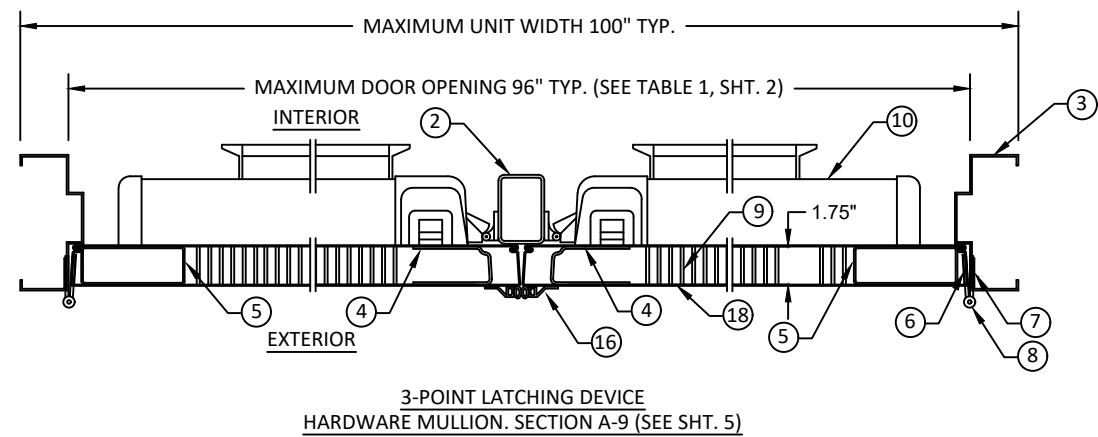
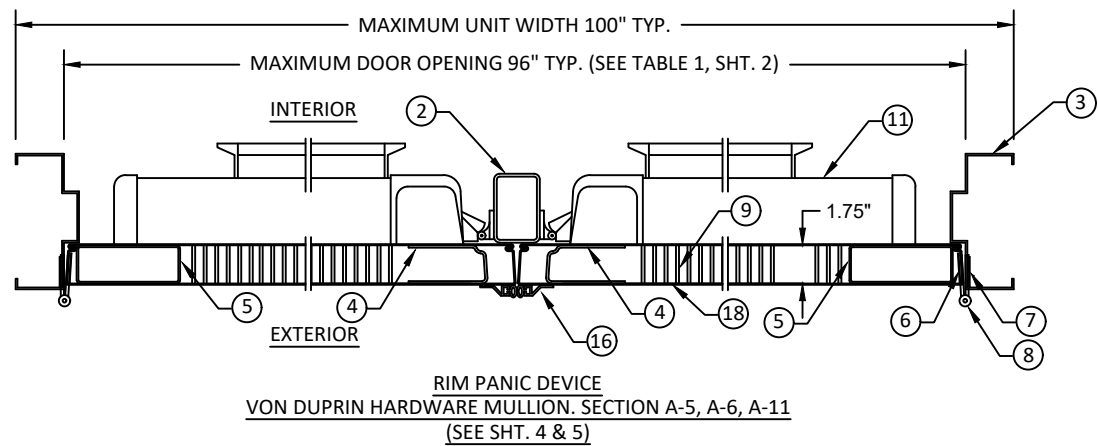
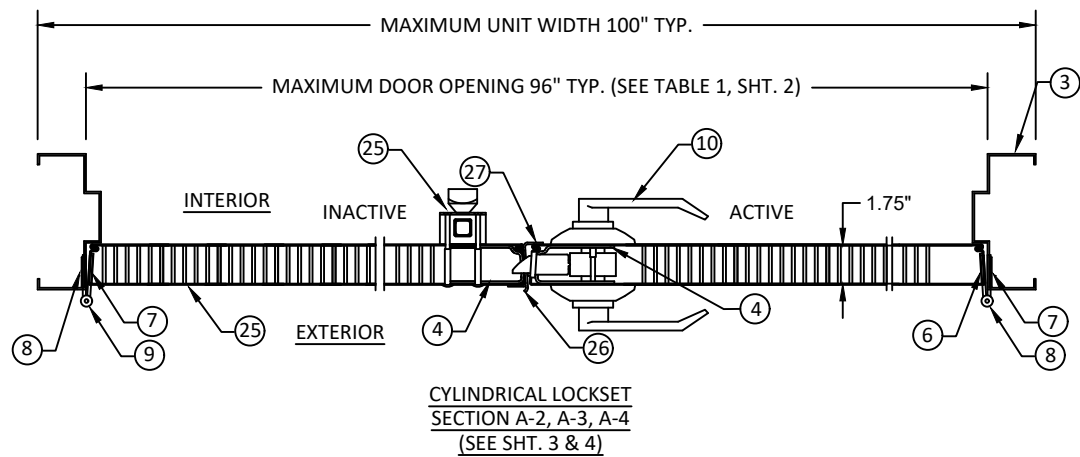
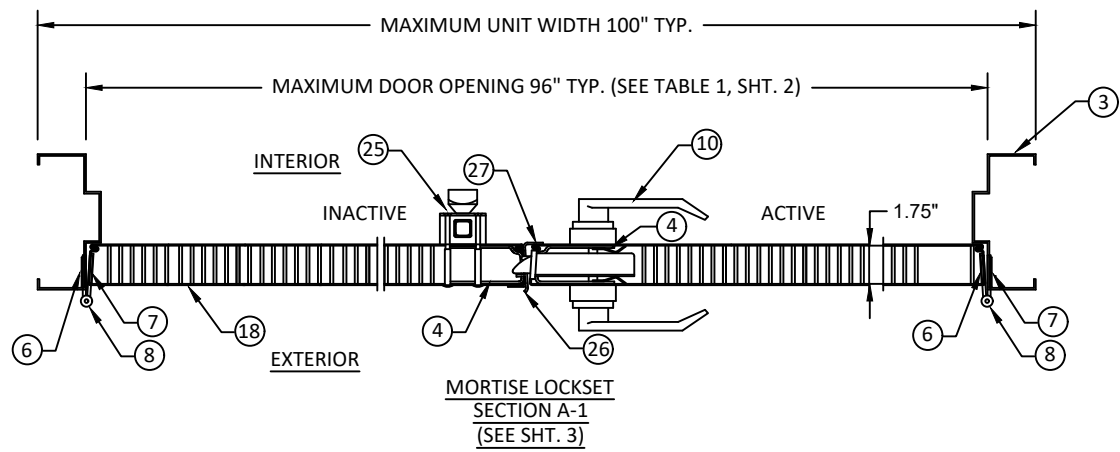


CONCEALED VERTICAL  
ROD EXIT DEVICE  
SECTION B-8 (SEE SHT. 5)



THREE-POINT LATCHING EXIT DEVICE.  
SECTIONS B-9, B-10 (SEE SHT. 5)





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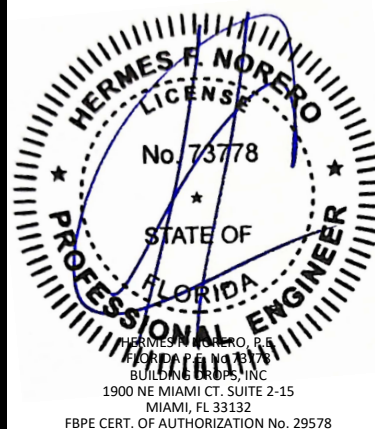
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SECTION VIEWS

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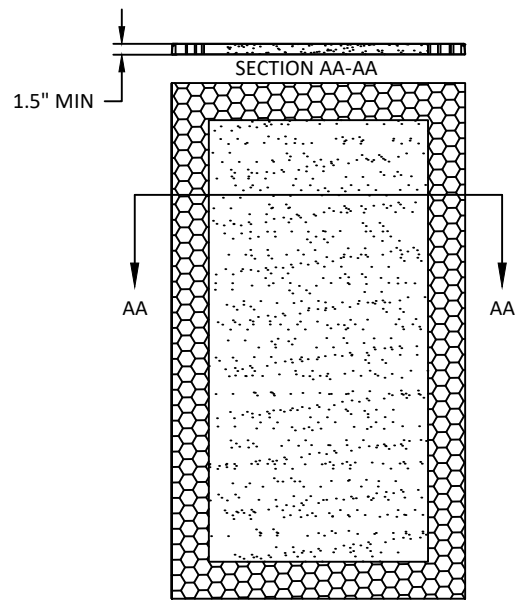
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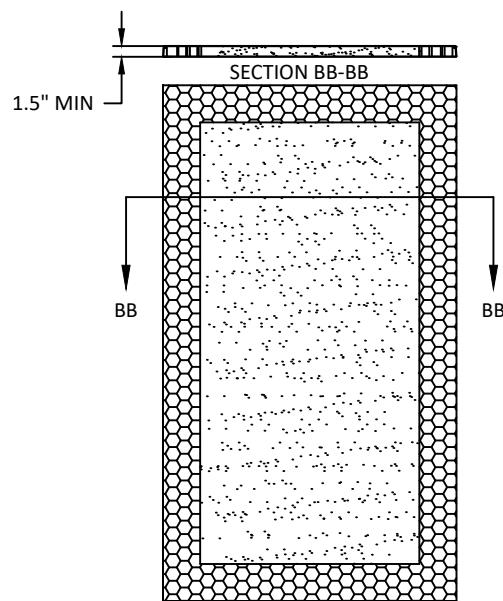
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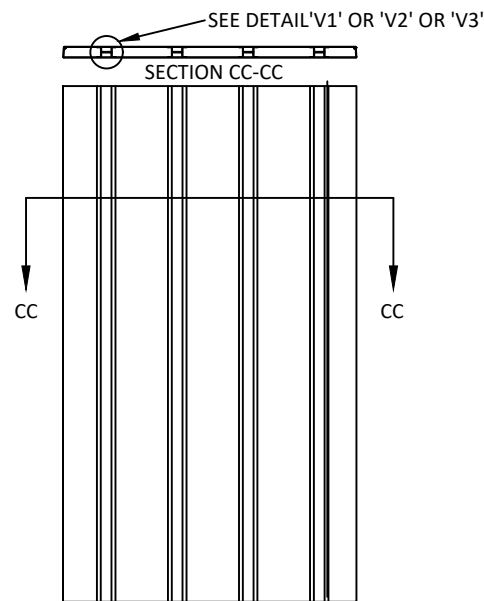
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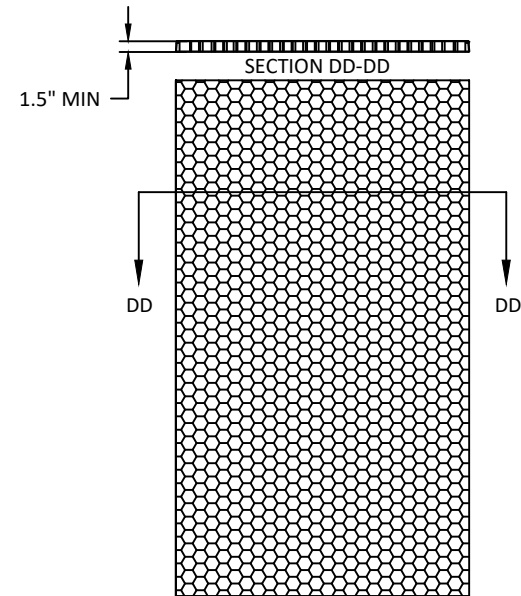
(A) EXPANDED POLYSTYRENE FOAM  
DENSITY: 1.0 LBS/FT<sup>3</sup>



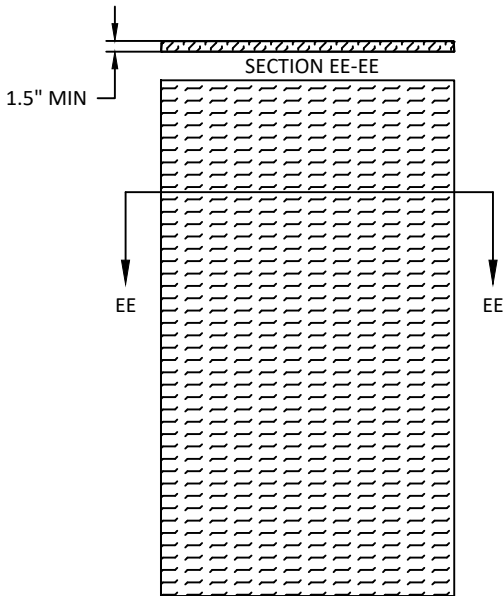
(B) POLYISOCYANURATE  
(POLYURETHANE)  
DENSITY: 2 LBS/FT<sup>3</sup>



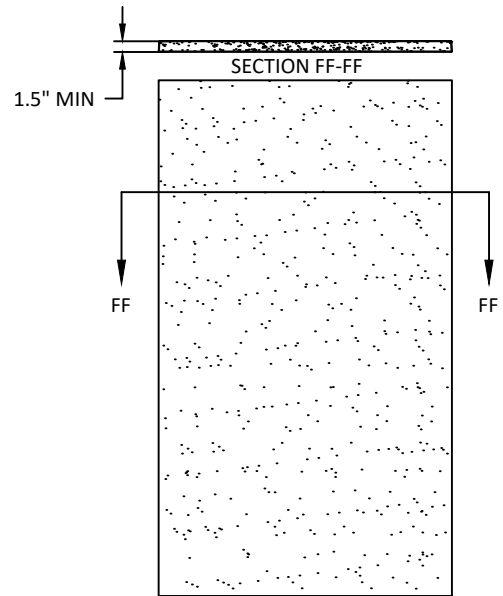
(C) STEEL STIFFENED  
HAT SHAPED SECTIONS



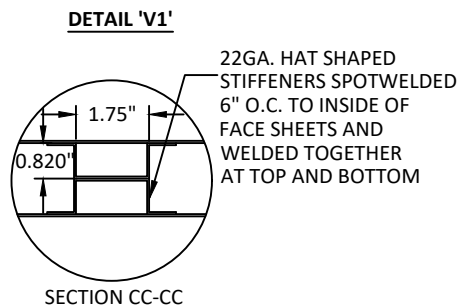
(D) HONEYCOMB  
KRAFT PAPER.



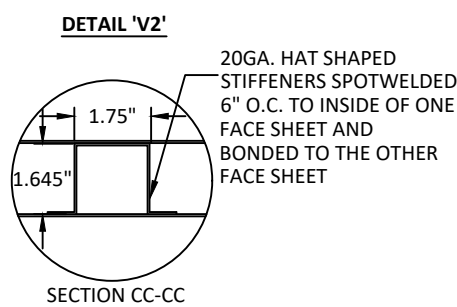
(E) TEMPERATURE RISE CORE  
MINERAL FIBER BOARD  
DENSITY: 17±1.5 LBS/FT<sup>3</sup>  
OR  
PSL-P250C-60  
OR  
CALCIUM SILICATE MINERAL CORE



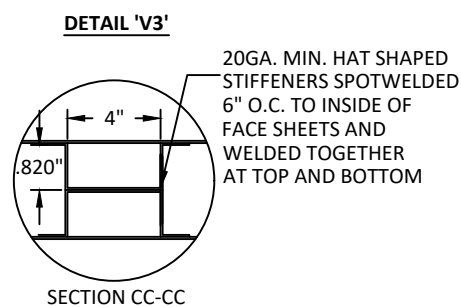
(F) EXPANDED POLYSTYRENE FOAM  
DENSITY: 1.0 LB/FT<sup>3</sup> OR  
POLYISOCYANURATE (POLYURETHANE)  
DENSITY: 2 LBS/FT<sup>3</sup>



SECTION CC-CC



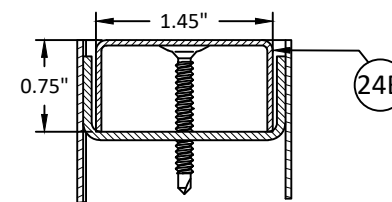
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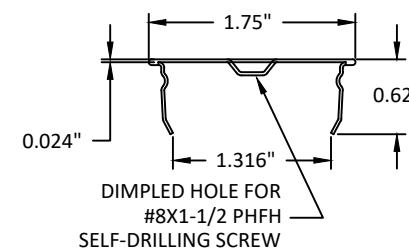
SECTION CC-CC

TABLE 3: AVAILABLE STEELCRAFT H-SERIES DOOR CONFIGURATIONS

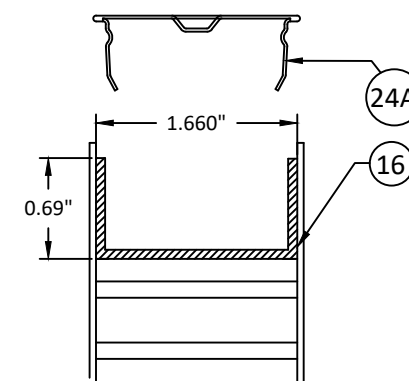
| CORE MATERIAL                                                                                         | MAXIMUM OPENING SIZE             |        | SKIN MATERIAL |                      |
|-------------------------------------------------------------------------------------------------------|----------------------------------|--------|---------------|----------------------|
|                                                                                                       | WIDTH                            | HEIGHT | DESCR.        | GA./MIN. THK         |
| HONEYCOMB<br>POLYSTYRENE<br>POLYURETHANE<br>(POLYISOCYANURATE)<br>TEMPERATURE RISE<br>STEEL STIFFENED | VARIES<br>SEE SHEET 2<br>TABLE 1 |        | CRS<br>GALV   | 16/.053"<br>14/.067" |



24B STEELCRAFT: 18 GA  
FLUSH TOP CAP  
(OPTIONAL)



24A STEELCRAFT: 24 GA TOP CAP  
(OPTIONAL)



15 STEELCRAFT: TOP & BOTTOM CHANNEL  
L=FULL DOOR WIDTH  
14 GAGE

- NOTES:
- CORE MATERIAL SHOWN WITHOUT CUTOUTS FOR REINFORCEMENTS
  - STIFFENER QUANTITY VARIES PER DOOR WIDTH



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DOOR PANEL & CORE DETAILS

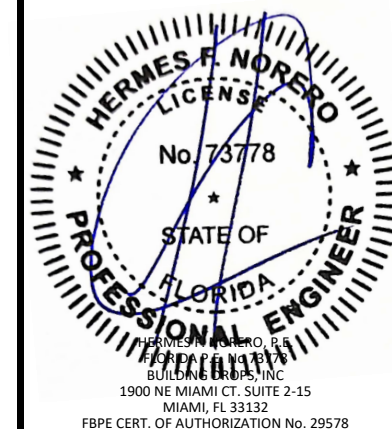
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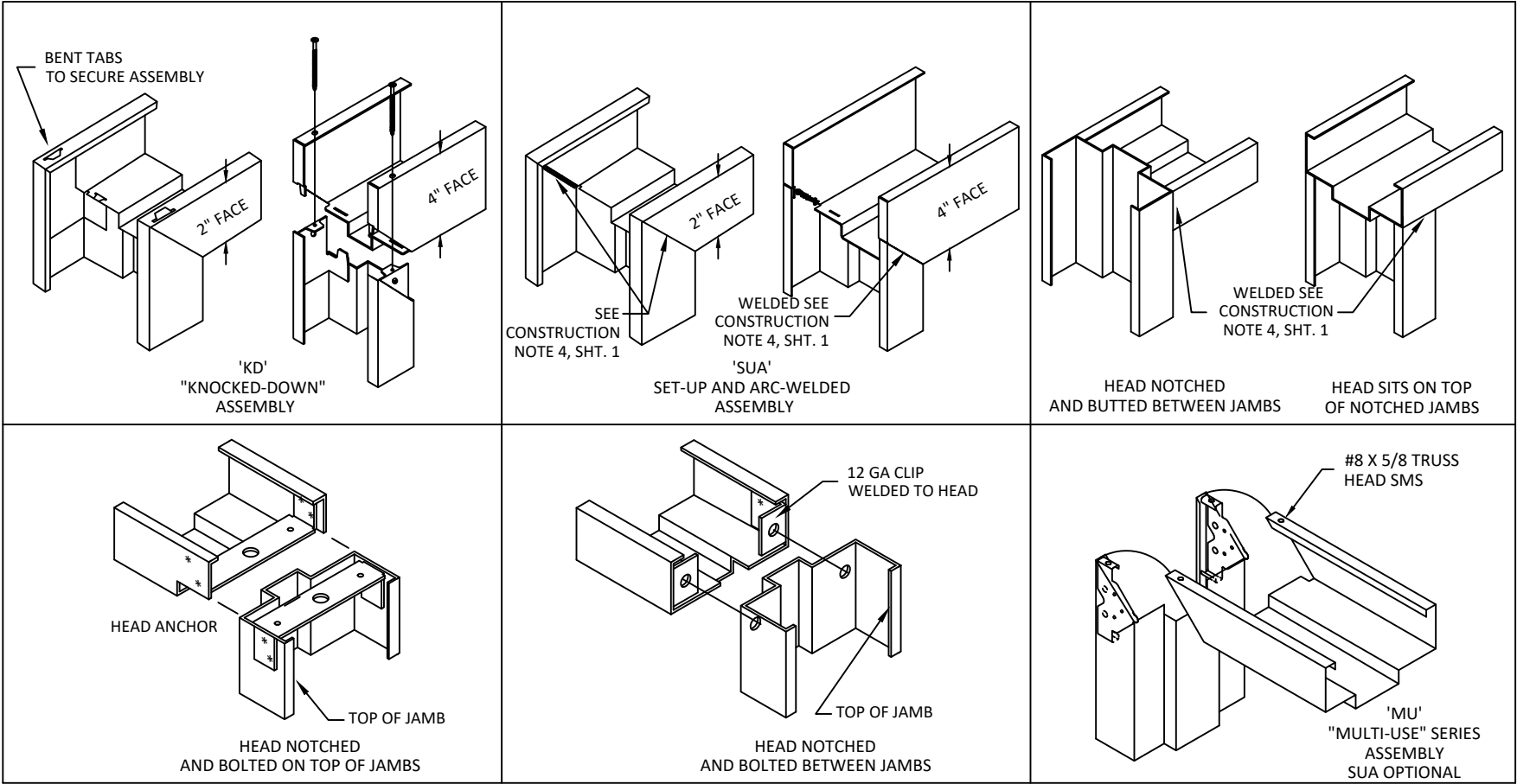
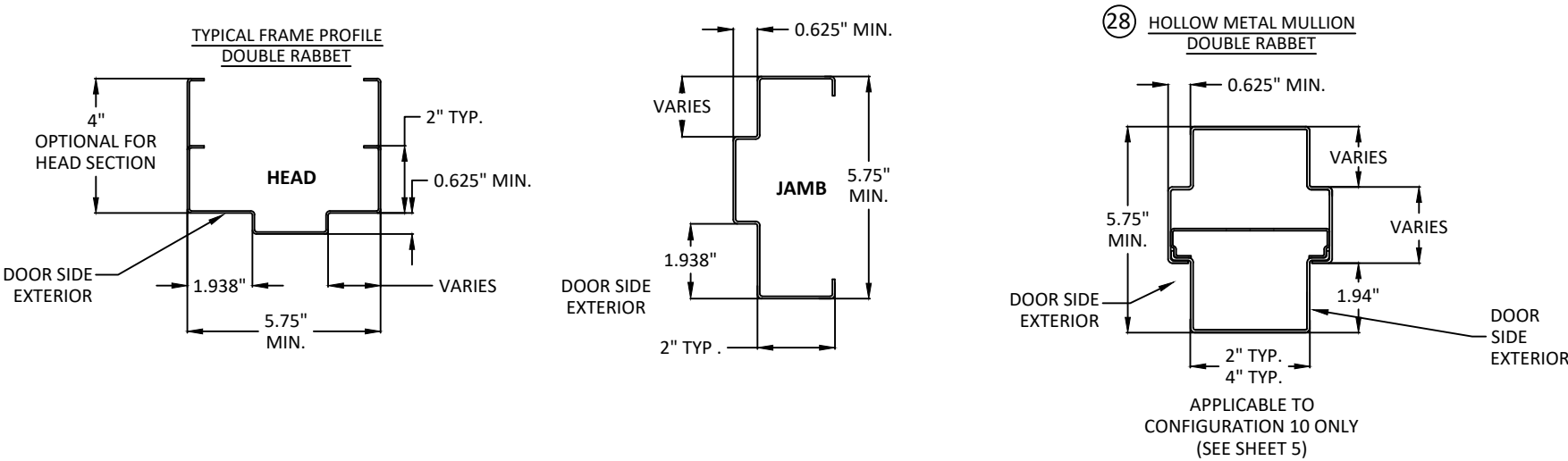


TABLE 4: AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

| FRAME SERIES | JAMB DEPTH | MAX. OPENING SIZE |        | MATERIAL     |                                  |
|--------------|------------|-------------------|--------|--------------|----------------------------------|
|              |            | WIDTH             | HEIGHT | DESCR.       | GA./MIN. THK                     |
| F            | 5.75" MIN. | 8'0"              | 8'0"   | CRS/HRS GALV | 16/.053"<br>14/.067"<br>12/.099" |
| MU           | 5.75" MIN. | 8'0"              | 8'0"   | CRS/HRS GALV | 16/.053"<br>14/.067"             |

TABLE 5: STEEL MECHANICAL PROPERTIES

| MATERIAL | ASTM REF. | YIELD KSI | TENSILE KSI |
|----------|-----------|-----------|-------------|
| CRS      | A1008     | MIN. 30.1 | MIN. 44.7   |
| HRS      | A1011     |           |             |
| GALV.    | A924/A653 |           |             |



ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

STEELCRAFT: FRAME DETAILS &  
CORNER CONSTRUCTION

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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DATE: 04.13.22

DWG. BY: CPA

CHK. BY: HFN

SCALE: NTS

DWG. #: IRFD07

SHEET:

10





ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)  
STEELCRAFT: ANCHORS - STEEL STUD &  
EMA INTO CONCRETE WALL OR CMU  
PREPARED BY: BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
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| REMARKS           | BY | DATE     |
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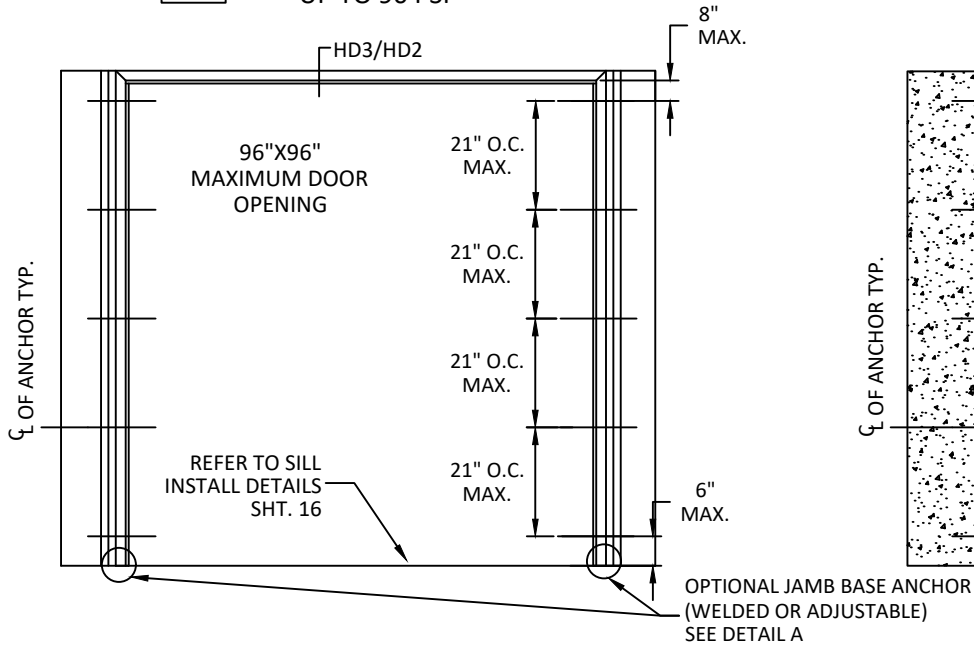
FL12400

|          |          |
|----------|----------|
| DATE:    | 04.13.22 |
| DWG. BY: | CPA      |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | IRFD07   |
| SHEET:   |          |

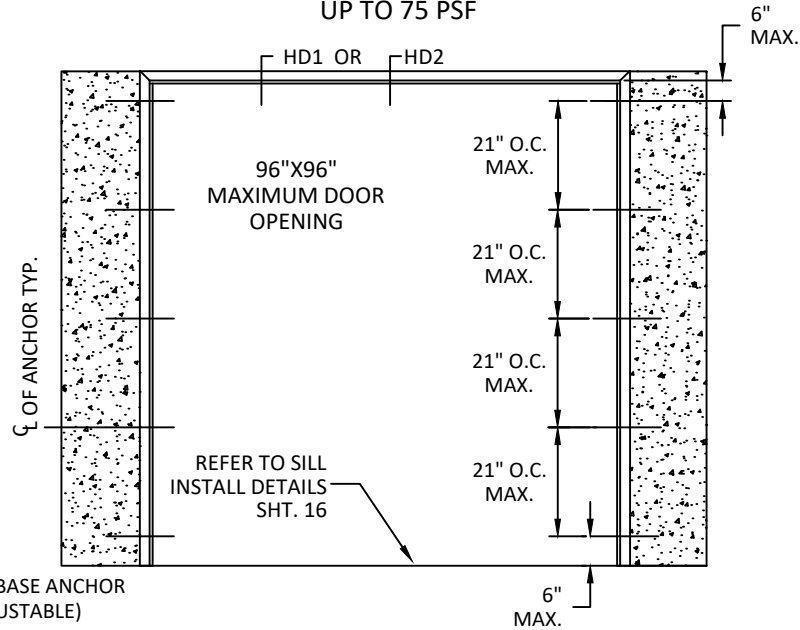
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OF 34

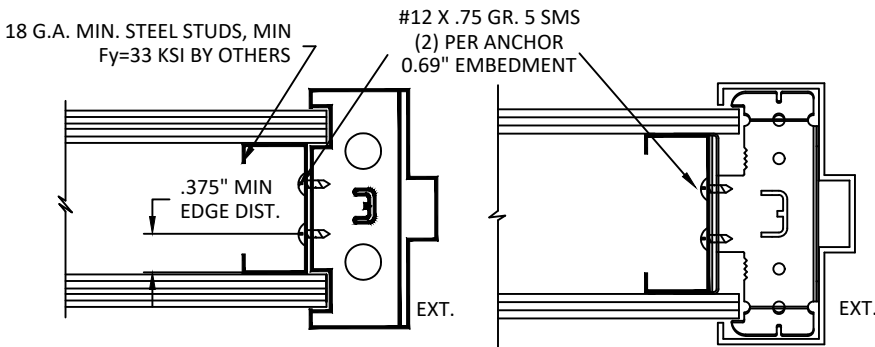
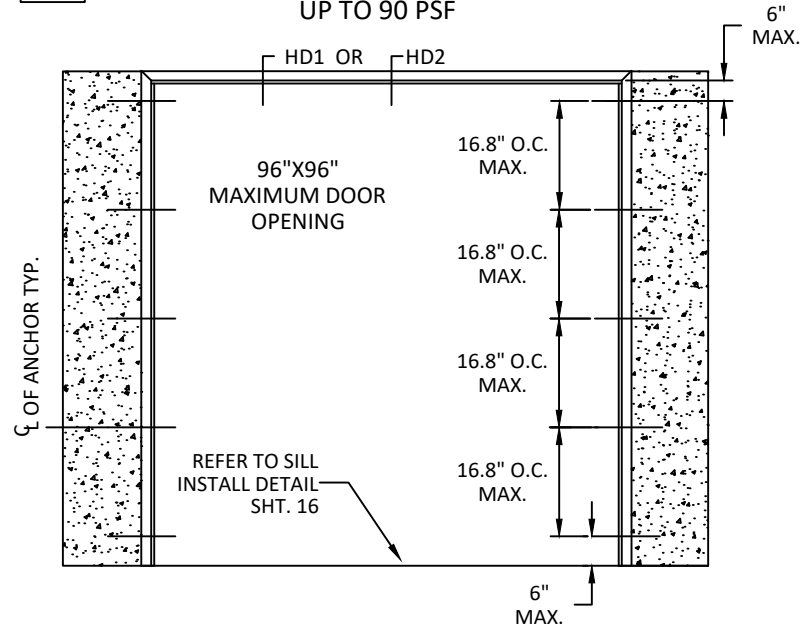
**C2** STEEL STUD ANCHOR  
UP TO 90 PSF



**D** EXISTING MASONRY ANCHOR (EMA) INTO  
CONCRETE WALL OR CMU  
UP TO 75 PSF

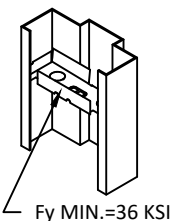


**D2** EXISTING MASONRY ANCHOR (EMA) INTO  
CONCRETE WALL OR CMU  
UP TO 90 PSF

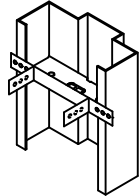


STEEL STUD ANCHOR  
WELD-IN OR LOCK-IN

UNIVERSAL ANCHOR  
WELD-IN OR LOCK-IN



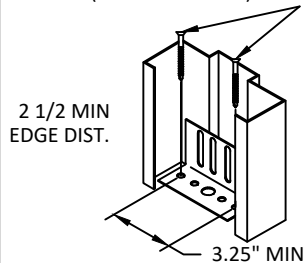
\*STEEL STUD WALLS  
SEE NOTE 12, SHT. 1



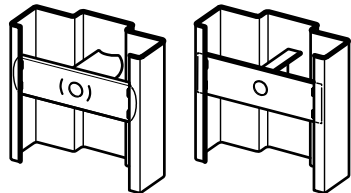
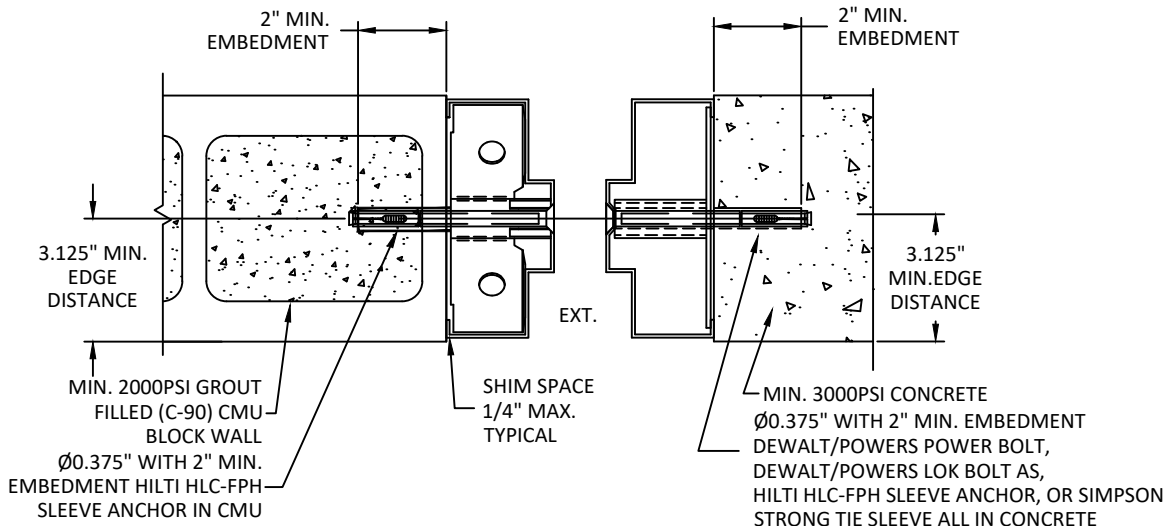
NOTES:

- (\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
- NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
- SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
- INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
- THE INSTALLATION DETAILS DESCRIBED HEREIN MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

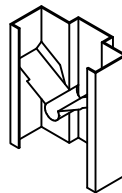
DETAIL A  
JAMB BASE ANCHOR  
(INTO CONCRETE)



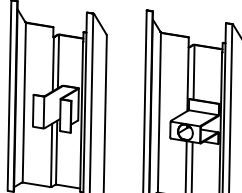
JAMB BASE ANCHOR INTO  
CONCRETE (3 KSI MIN.)  
Ø0.375" WITH 2" MIN. EMBEDMENT  
DEWALT/POWERS POWER BOLT,  
DEWALT/POWERS LOK BOLT AS,  
HILTI HLC-FPH SLEEVE ANCHOR,  
SIMPSON STRONG TIE  
SLEEVE-ALL OR 3/8" LAG BOLT  
INTO (2) 2X WOOD SILL (SG=0.55)



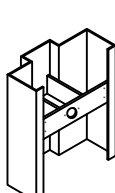
TUBE/CHANNEL &  
PLATE BOLT-IN



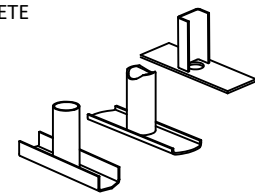
LOCK-IN



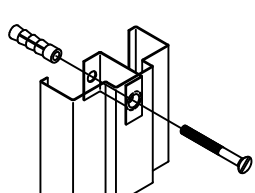
EMA-U ANCHOR



WELD-IN



TUBE & PLATE  
WELD-IN EMA  
ANCHOR



EMA-U ANCHOR

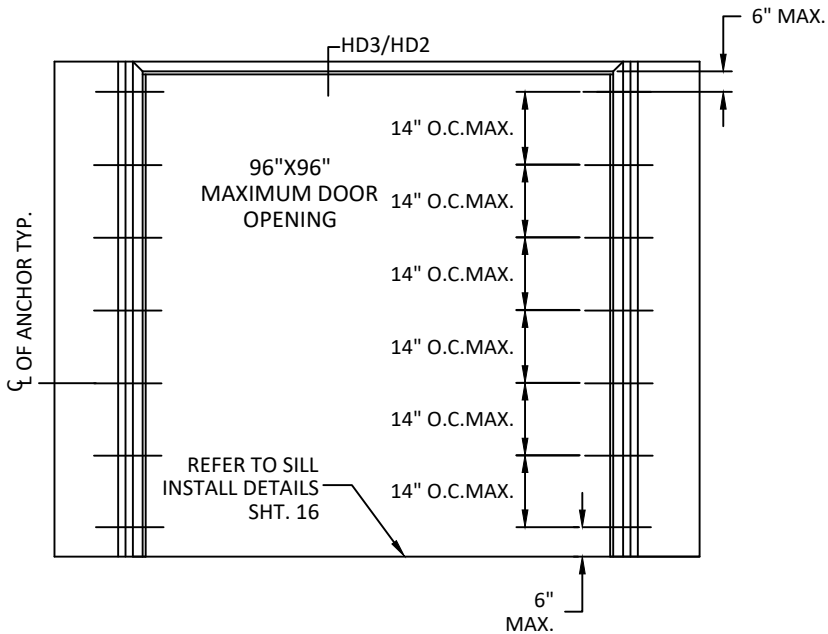
SEE PAGE 31 FOR  
OPTION 2 ANCHOR DETAILS



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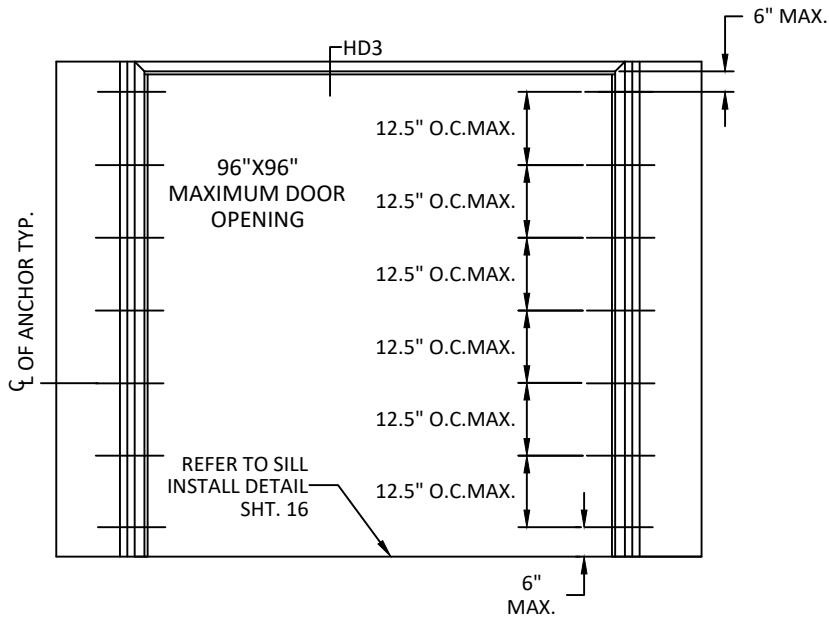
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EXISTING MASONRY ANCHOR (EMA)  
WITH LAG BOLT INTO WOOD STUD WALL  
UP TO 75 PSF



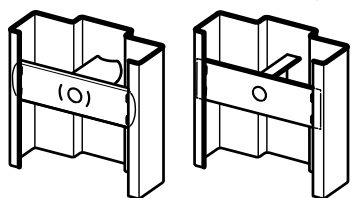
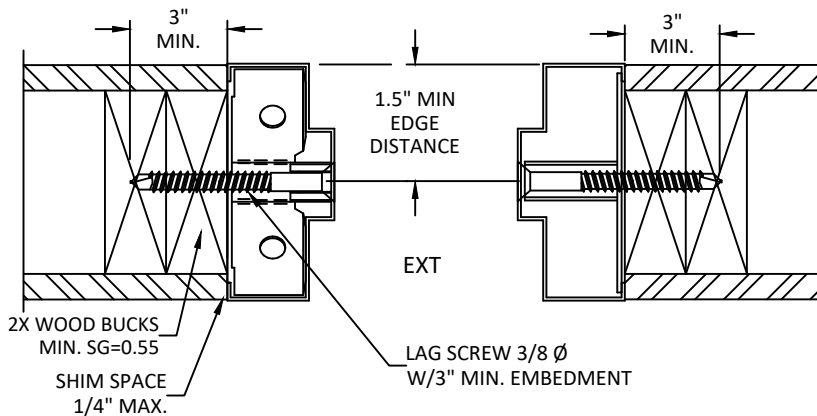
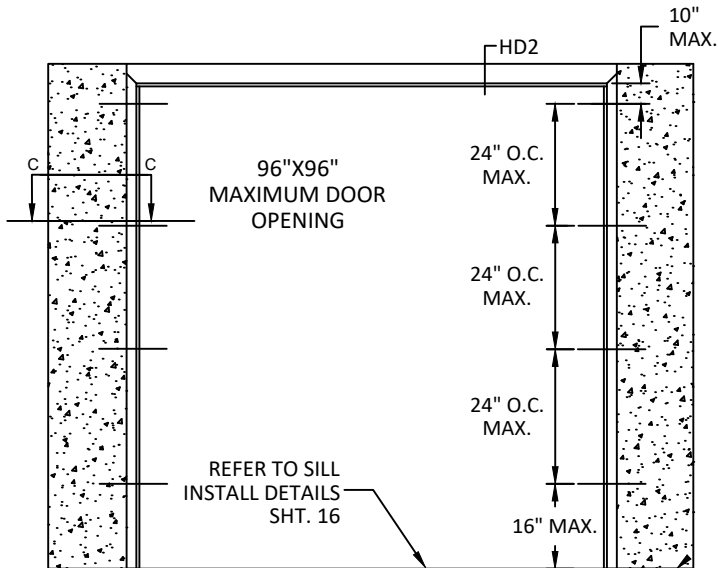
E2

EXISTING MASONRY ANCHOR (EMA) WITH LAG  
BOLT INTO WOOD STUD WALL  
UP TO 90 PSF

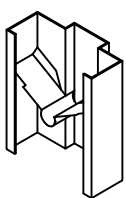


F2

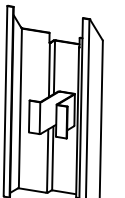
POURED CONCRETE  
TILT UP WALL  
UP TO 90 PSF



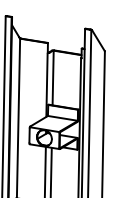
TUBE/CHANNEL &  
PLATE BOLT-IN



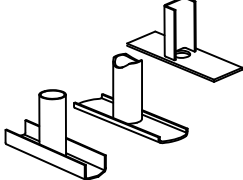
LOCK-IN



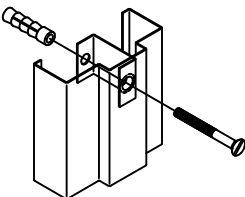
EMA-U ANCHOR



WELD-IN



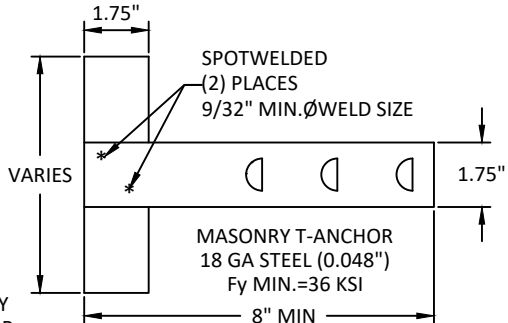
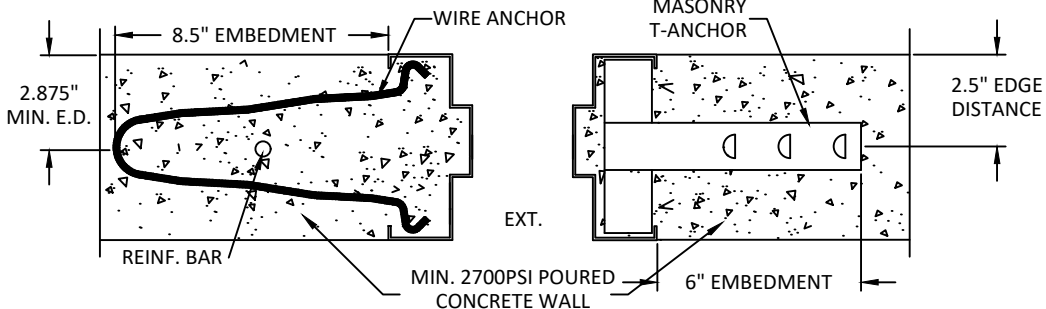
TUBE & PLATE  
WELD-IN EMA  
ANCHOR



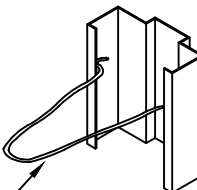
EMA-U ANCHOR

NOTE:  
1. 3/8" LAG SCREWS TO BE MIN. SAE GRADE 2 OR  
EQUIVALENT.

CROSS-SECTION C-C  
POURED CONCRETE OPTION

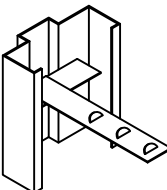


WIRE MASONRY ANCHOR  
Fultim MIN.=58 KSI  
Fy MIN.=36 KSI



WIRE ANCHOR Ø3/16"  
BRIGHT BASIC WIRE  
5.19" X 9.56"

MASONRY  
T-ANCHOR



NOTES:

- (\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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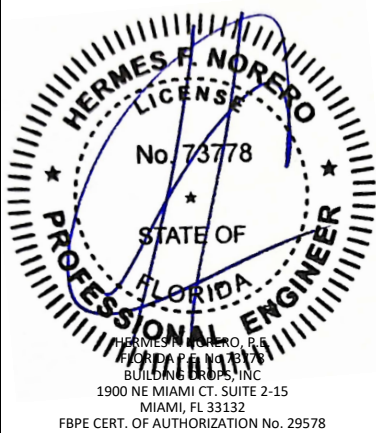
TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)  
STEELCRAFT: ANCHORS - EMA W/  
LAG BOLT IN WOOD STUD WALL  
& POURED CONCRETE TILT UP WALL

PREPARED BY:  
**BUILDING DROPS, INC.**  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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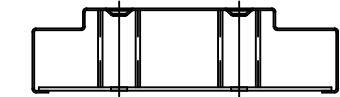
FL12400

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|----------|----------|
| DATE:    | 04.13.22 |
| DWG. BY: | CPA      |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | IRFD07   |
| SHEET:   |          |

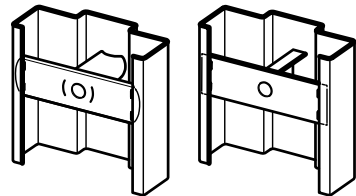
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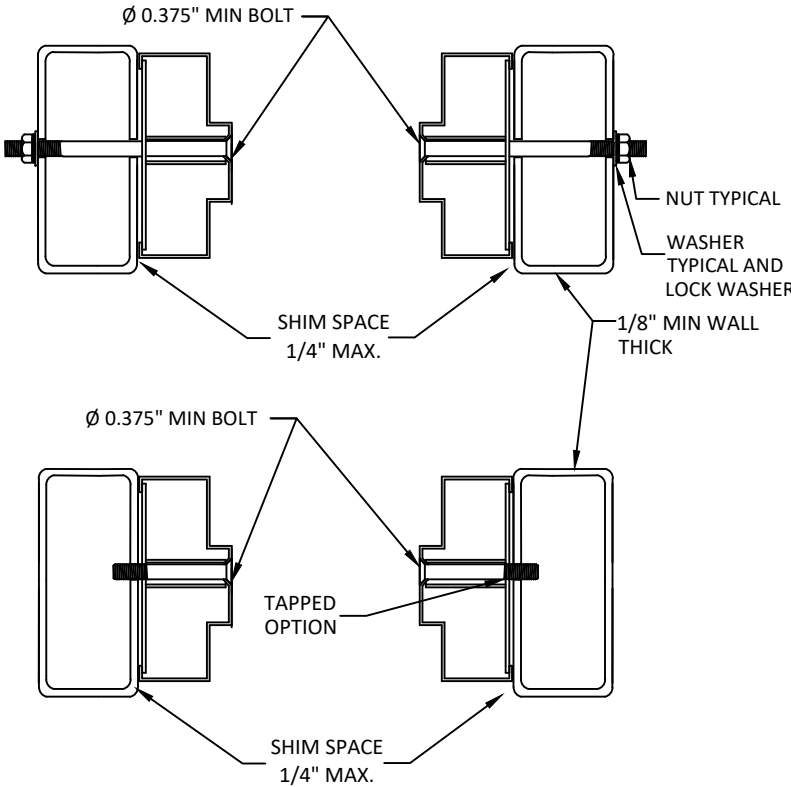
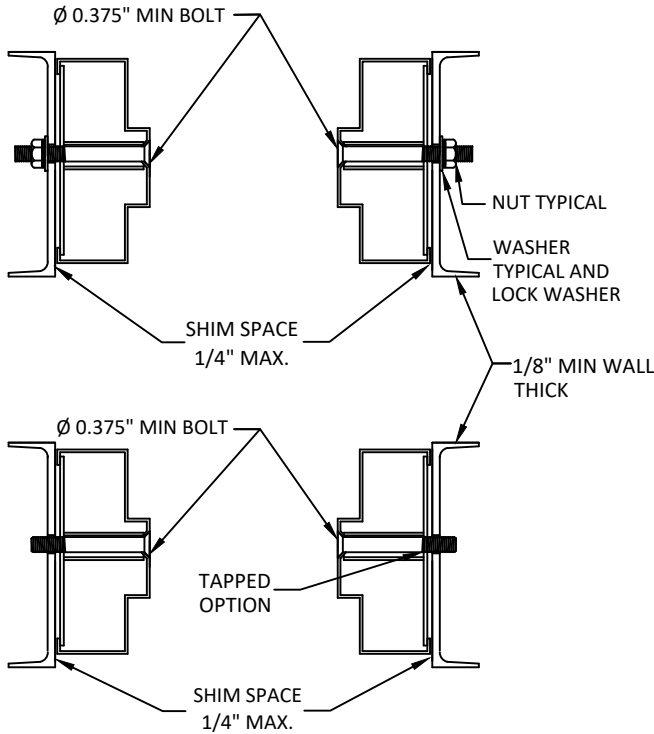
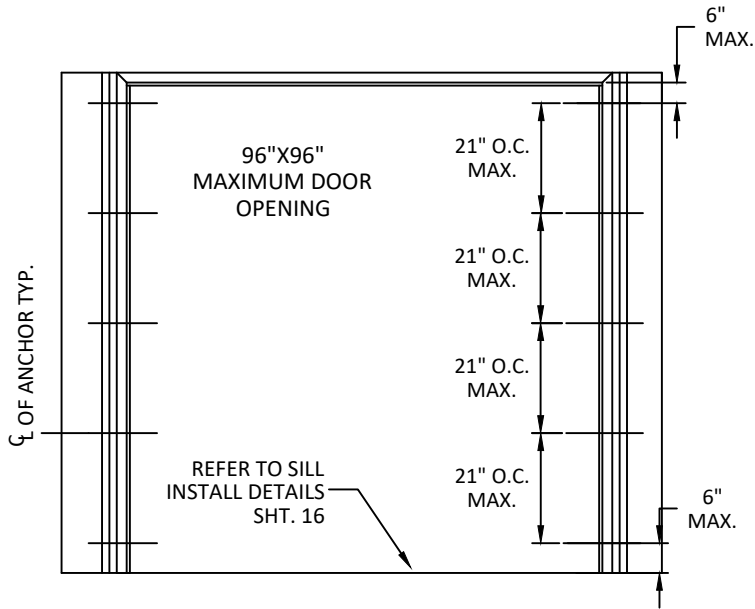
FRAMES BOLTED TO BUILDING STRUCTURE  
UP TO 90 PSF



9 1/4" JAMB DEPTH AND ABOVE  
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &  
PLATE BOLT-IN



NOTE:  
1. 3/8" BOLTS AND NUTS TO BE MIN. SAE GRADE 2 OR  
EQUIVALENT.

NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD  
WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR  
ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF,  
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2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY  
MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.  
3.SEALE ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR  
SILICONE CAULK.  
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL  
LENGTH OF SILL.  
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ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

STEELCRAFT: ANCHORS - FRAMES  
BOLTED TO BUILDING STRUCTURE

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132

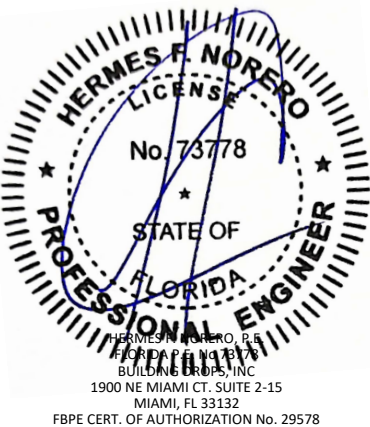
PH: (954)399-8478  
FAX: (954)744-4738

WEB: www.buildingdrops.com



| REMARKS           | BY | DATE     |
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FL12400

DATE: 04.13.22

DWG. BY:  
CPA

CHK. BY:  
HFN

SCALE: NTS

DWG. #: IRFD07

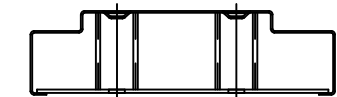
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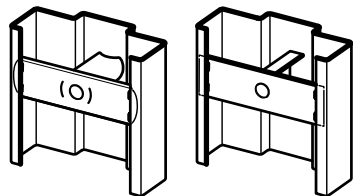
OF 34



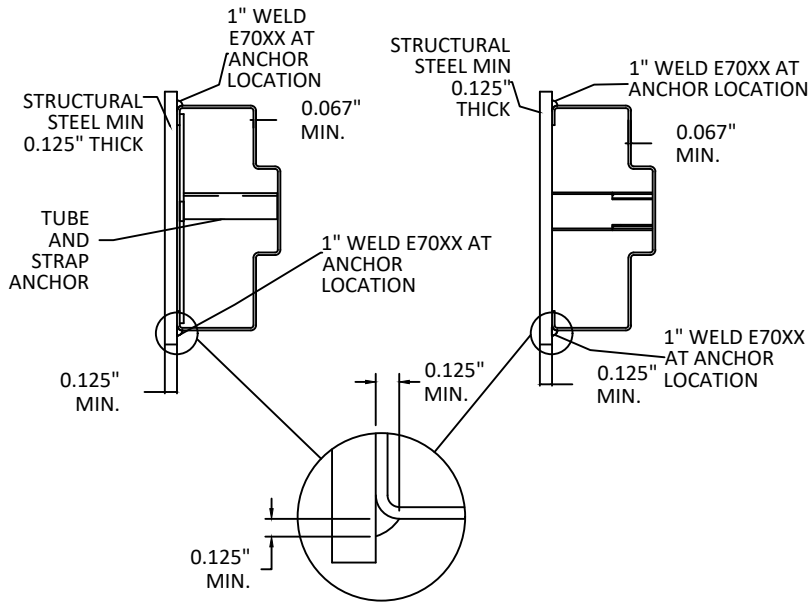
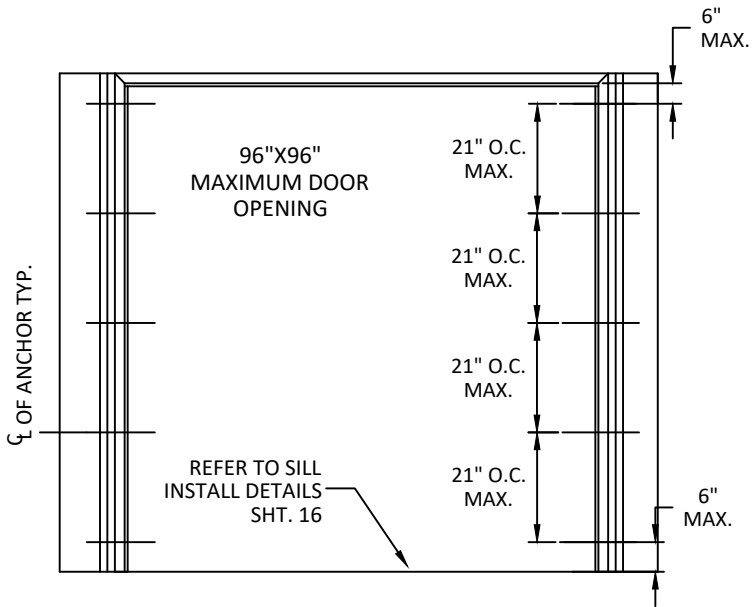
WELDED ANCHOR  
SHIM OR STEEL BUILDING STRUCTURE  
UP TO 90 PSF



9 1/4" JAMB DEPTH AND ABOVE  
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &  
PLATE BOLT-IN



NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.  
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.  
3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.  
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.  
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11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

STEELCRAFT: ANCHORS - FRAMES  
WELDED TO STEEL STRUCTURE BUILDING

PREPARED BY: BUILDING DROPS, INC.  
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HERMES F. NORERO, P.E.  
BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

FL12400

DATE: 04.13.22

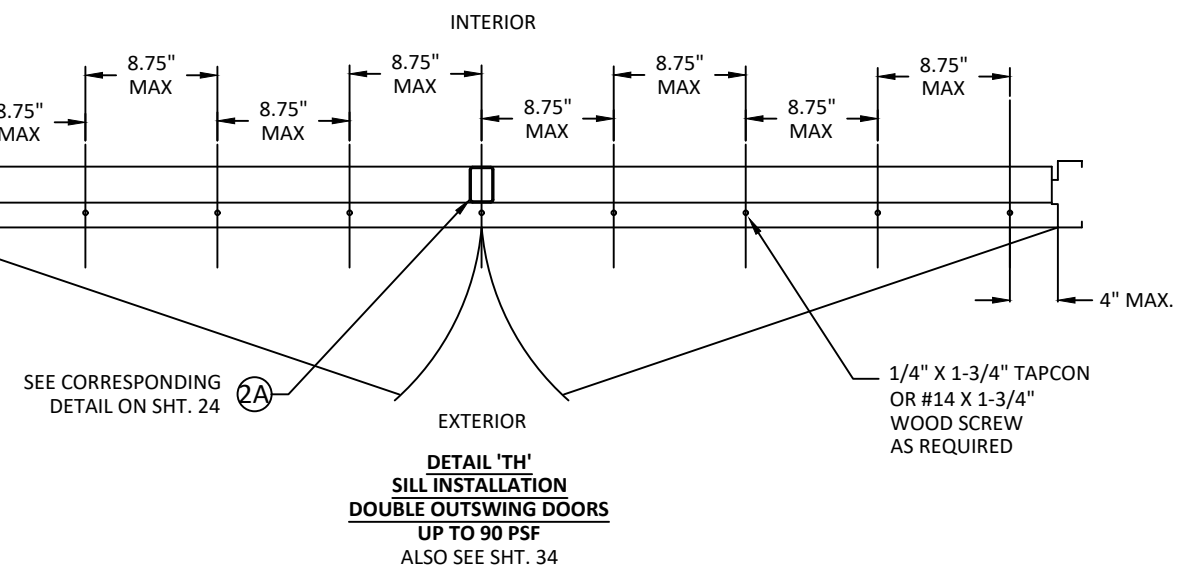
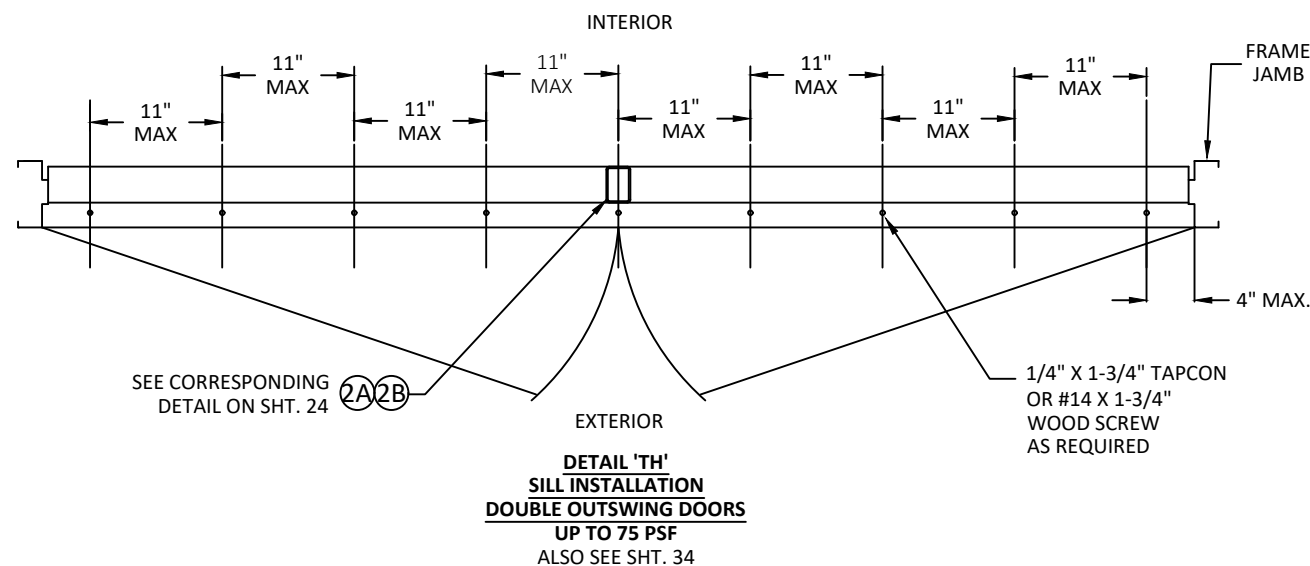
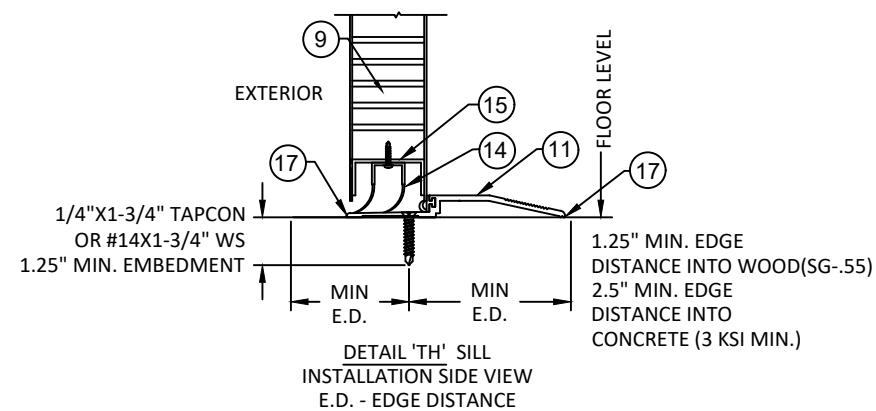
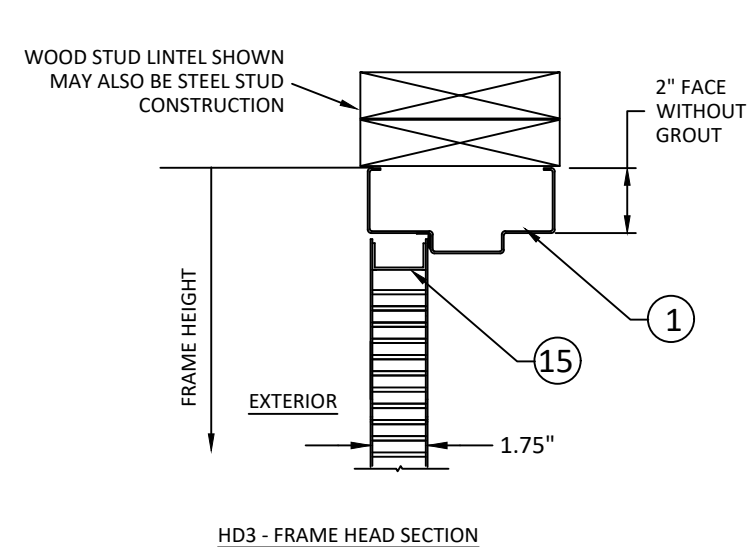
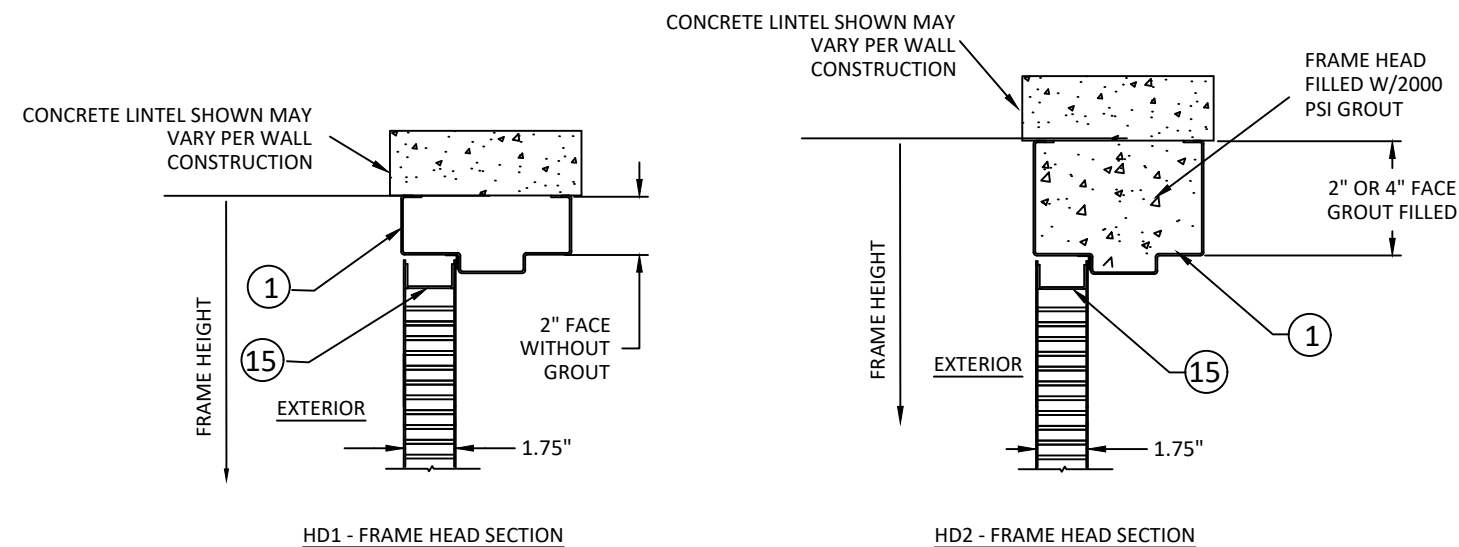
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|-----------------|-----------------|
| DWG. BY:<br>CPA | CHK. BY:<br>HFN |
|-----------------|-----------------|

SCALE: NTS

DWG. #: IRFD07

SHEET:

15 OF 34



NOTES:

1. (\*) WOOD OR (\*) STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @ 75 PSF, AND 375 #/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.

2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.

3. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.

4. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.

5. THE INSTALLATION DETAILS DESCRIBED HEREIN MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

**OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)**

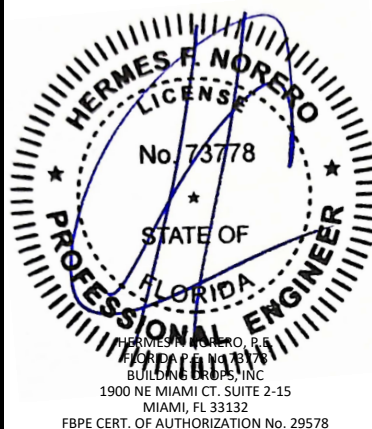
PREPARED BY: **BUILDING DROPS, INC.**

1900 NE MIAMI CT. SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744.4738  
WEB: [www.buildingdrops.com](http://www.buildingdrops.com)



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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.



FL12400

DATE: 04.13.22

|                        |                        |
|------------------------|------------------------|
| DWG. BY:<br><b>CPA</b> | CHK. BY:<br><b>HFN</b> |
|------------------------|------------------------|

SCALE: NTS

DWG. #: IRFD07

SHEET:

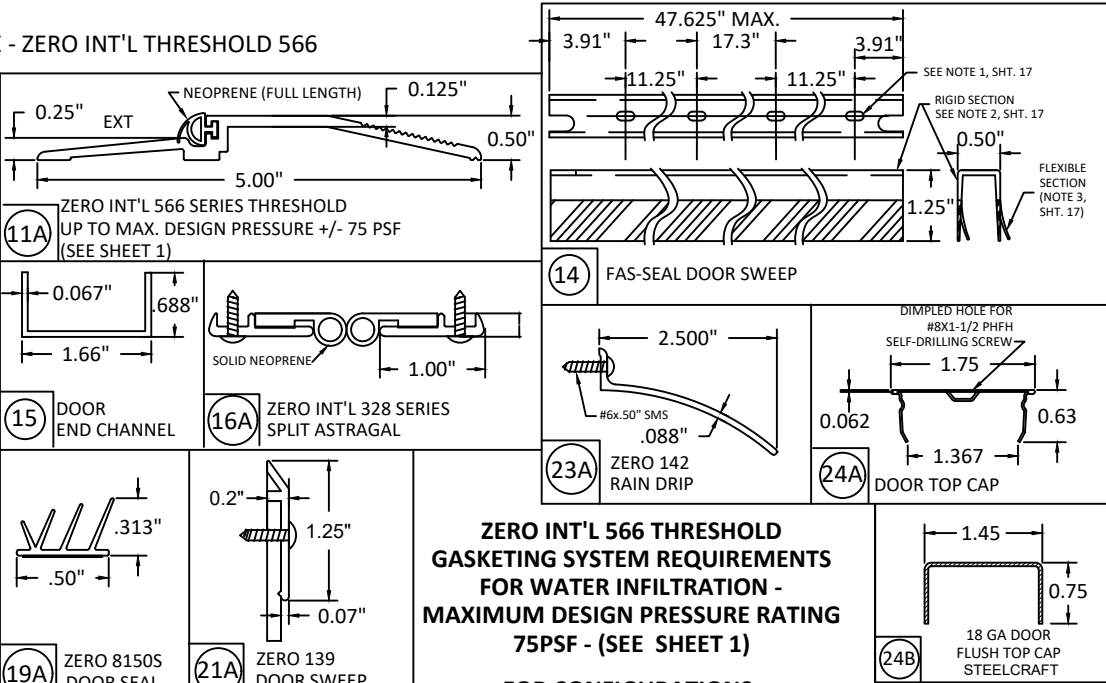
16

DF 34

TABLE 6.1 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566

| ITEM NUMBER | MODEL NO./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 11A         | 566 THRESHOLD          | ZERO INT'L |
| 14          | FAS-SEAL SWEEP         | STEELCRAFT |
| 15          | END CHANNEL            | STEELCRAFT |
| 16A         | 328 SPLIT ASTRAGAL     | ZERO INT'L |
| 19A         | 8150S DOOR SEAL        | ZERO INT'L |
| 21A         | 139 DOOR SWEEP         | ZERO INT'L |
| 23A         | 142 RAIN DRIP          | ZERO INT'L |
| 23B         | 11 RAIN DRIP           | ZERO INT'L |
| 24A         | DOOR TOP CAP           | STEELCRAFT |
| 24B         | FLUSH TOP CAP          | STEELCRAFT |

ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE SHEET 1)

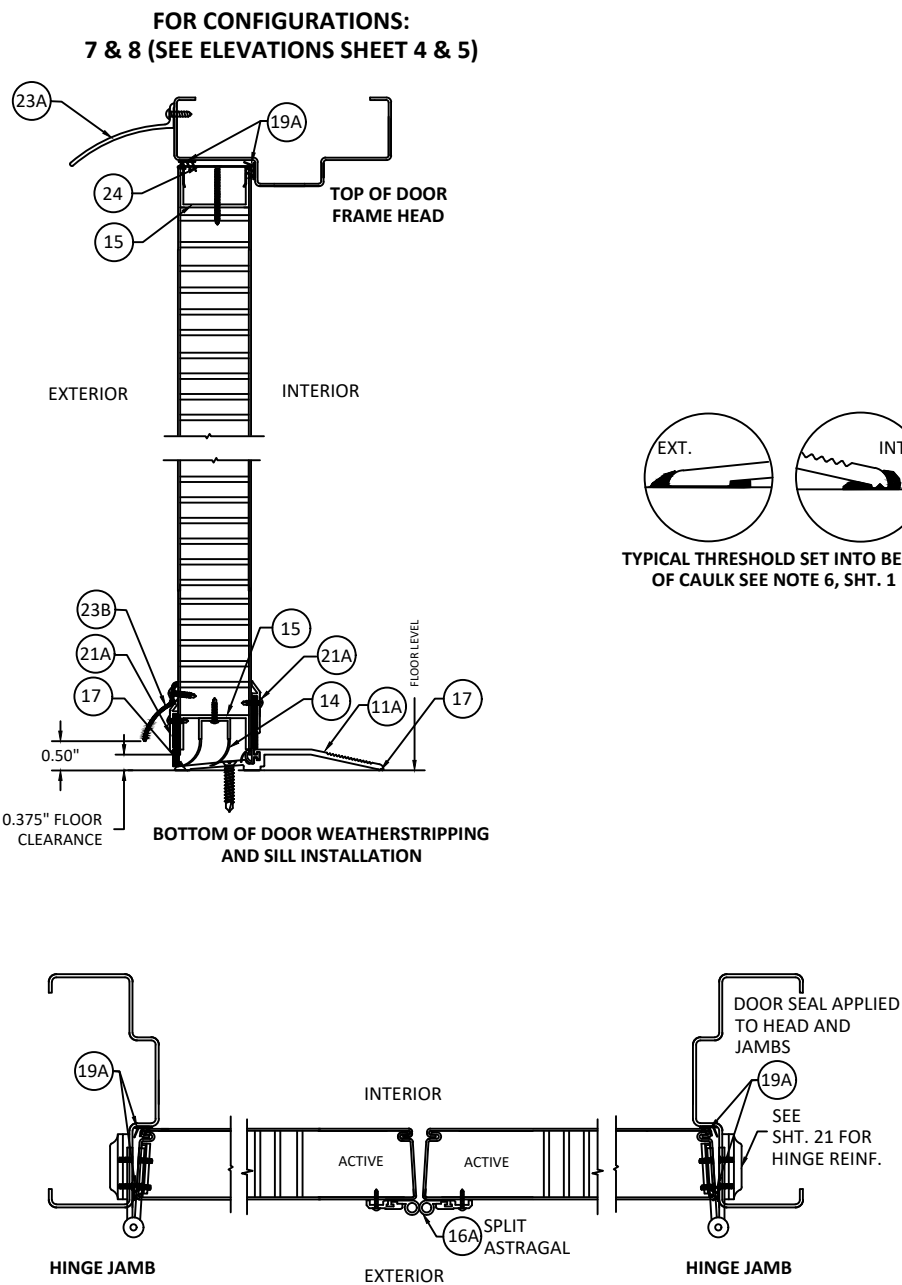
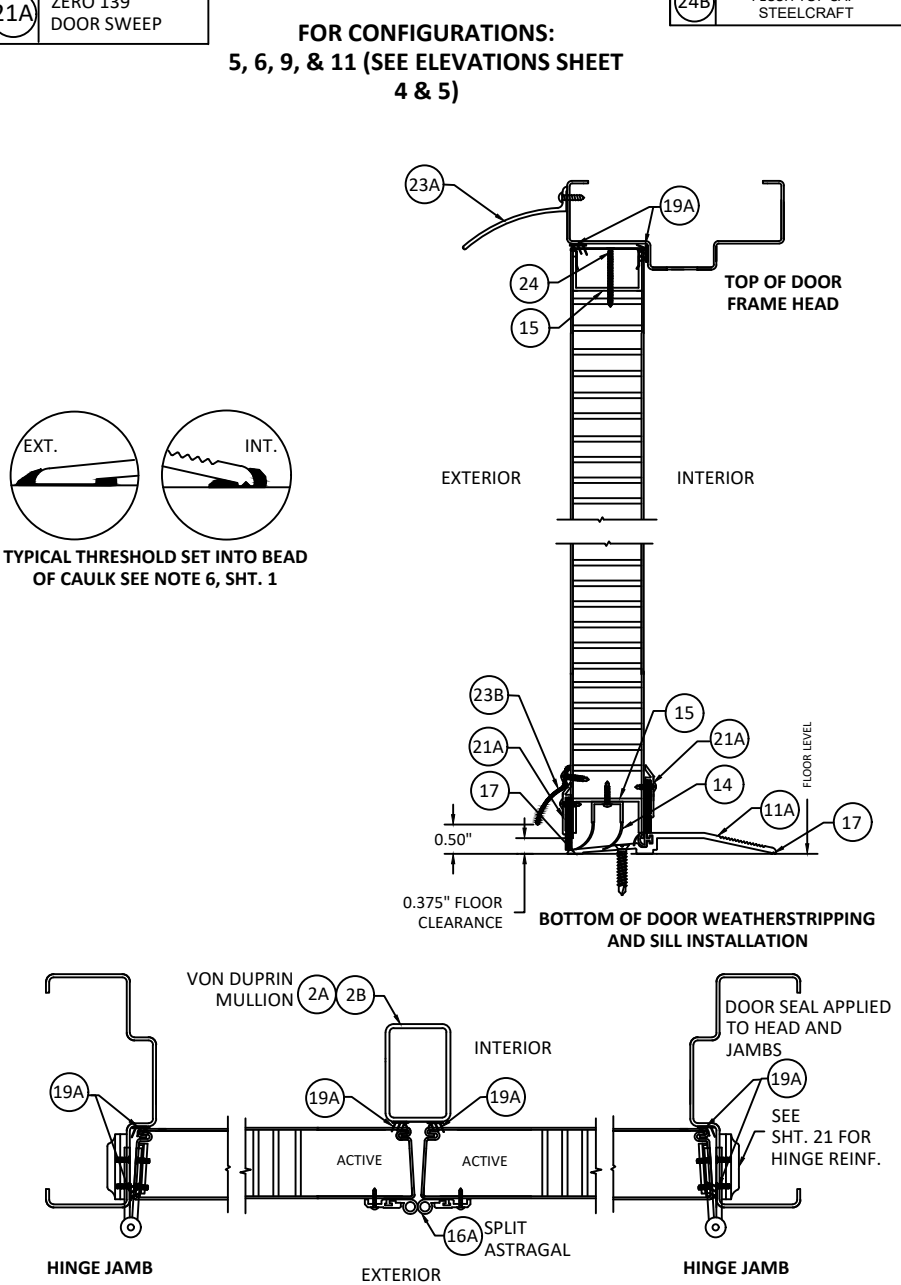
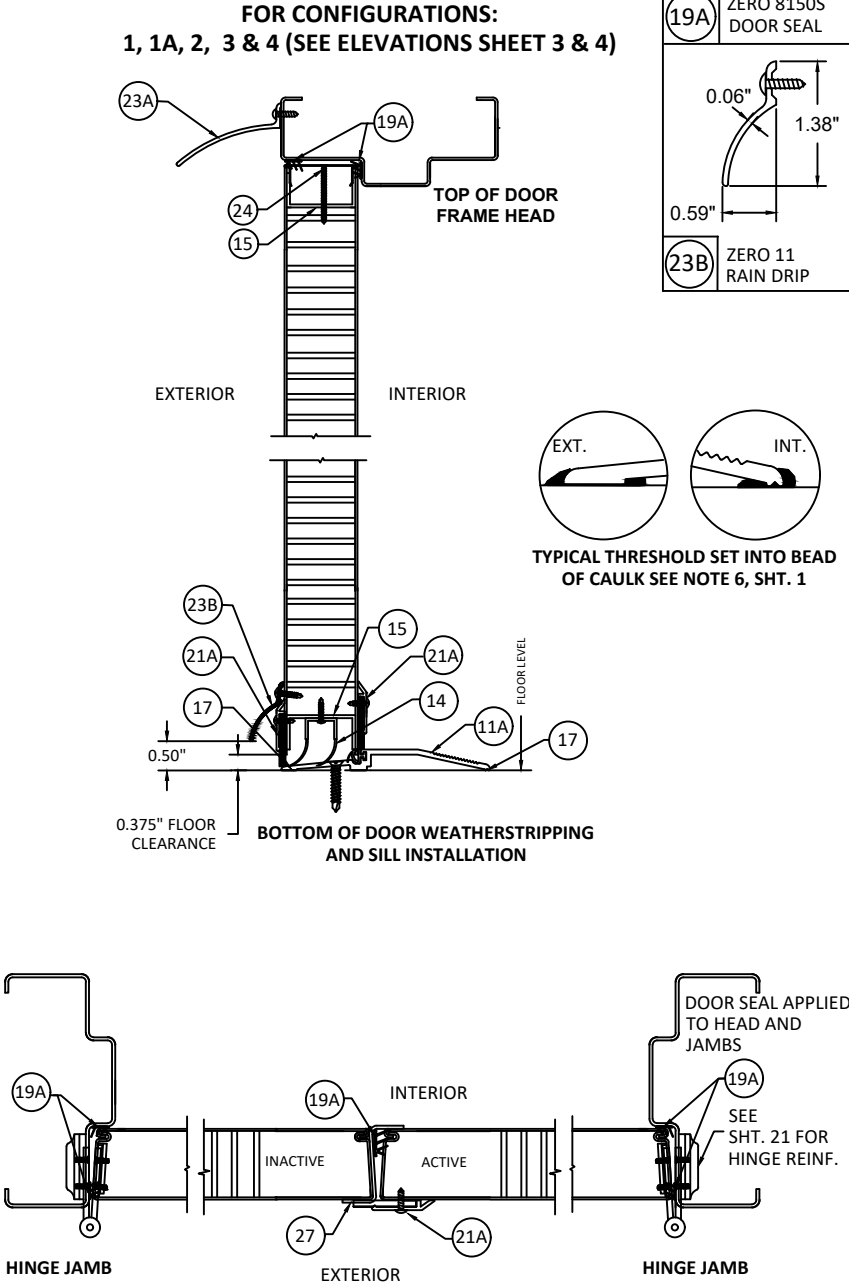


ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE SHEET 1)

FOR CONFIGURATIONS: 5, 6, 9, & 11 (SEE ELEVATIONS SHEET 4 & 5)

ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE SHEET 1)

FOR CONFIGURATIONS: 7 & 8 (SEE ELEVATIONS SHEET 4 & 5)



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
  3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
  4. STEELCRAFT INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11A) AS APPLICABLE.
  5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
  6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
  7. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE.



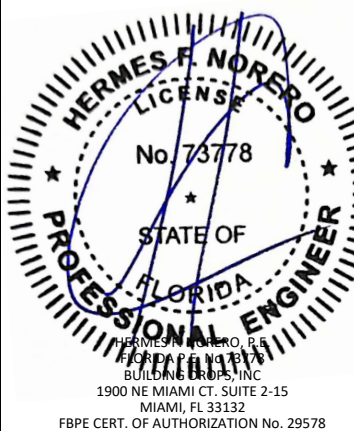
ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH COMMERCIAL STEEL DOOR (HVHZ)(IMPACT) GASKETING DETAILS FOR WATER INFILTRATION

PREPARED BY: BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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.



FL12400

DATE: 04.13.22

DWG. BY: CPA CHK. BY: HFN

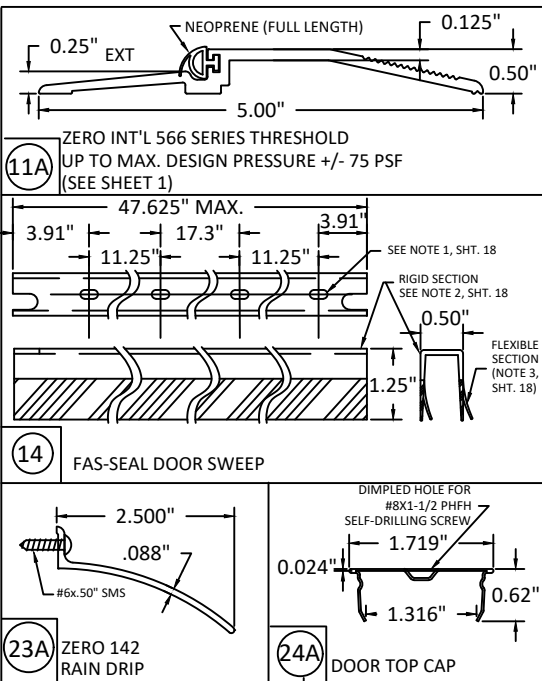
SCALE: NTS

DWG. #: IRFD07

SHEET: 17 OF 34

TABLE 6.2 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566

| ITEM NUMBER | MODEL NO./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 11A         | 566 THRESHOLD          | ZERO INT'L |
| 14          | FAS-SEAL SWEEP         | STEELCRAFT |
| 15          | END CHANNEL            | STEELCRAFT |
| 19B         | 188S DOOR SEAL         | ZERO INT'L |
| 21A         | 139 DOOR SWEEP         | ZERO INT'L |
| 21B         | 328 DOOR SWEEP         | ZERO INT'L |
| 22A         | 475 ADJUSTABLE SEAL    | ZERO INT'L |
| 23A         | 142 RAIN DRIP          | ZERO INT'L |
| 23B         | 11 RAIN DRIP           | ZERO INT'L |
| 24A         | DOOR TOP CAP           | STEELCRAFT |
| 24B         | FLUSH TOP CAP          | STEELCRAFT |



ZERO INT'L 566 THRESHOLD GASKETING SYSTEM  
REQUIREMENTS FOR WATER INFILTRATION -  
MAXIMUM DESIGN PRESSURE RATING 70 PSF - (SEE  
CONFIGURATION 10, SHEET 1)

FOR CONFIGURATION:  
10 (SEE ELEVATIONS SHEET 5)

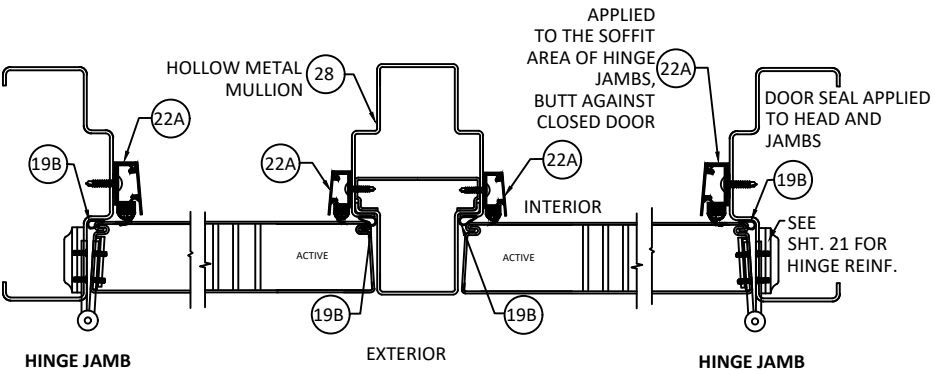
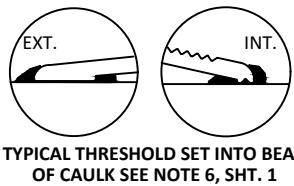
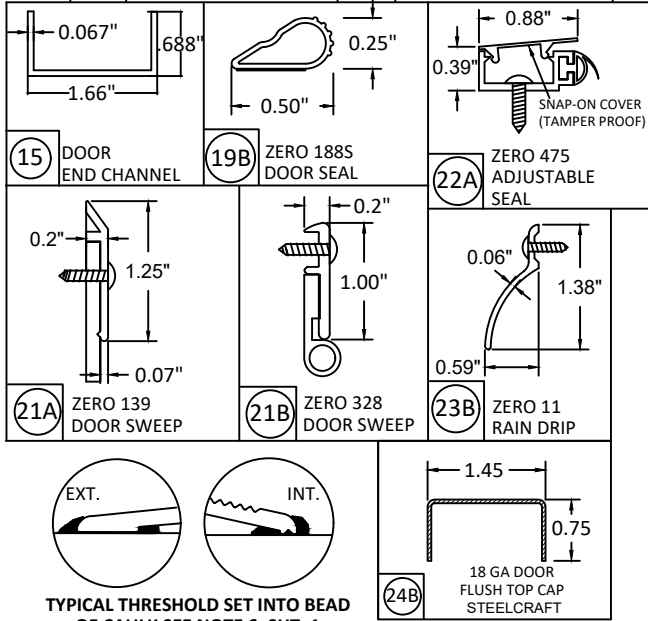
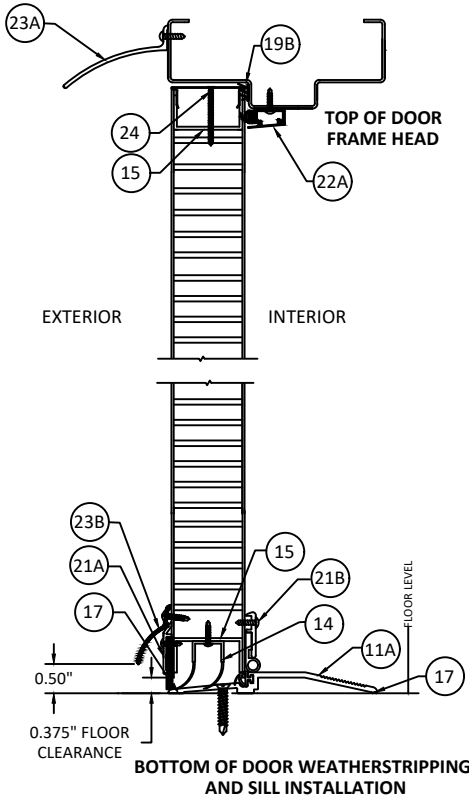
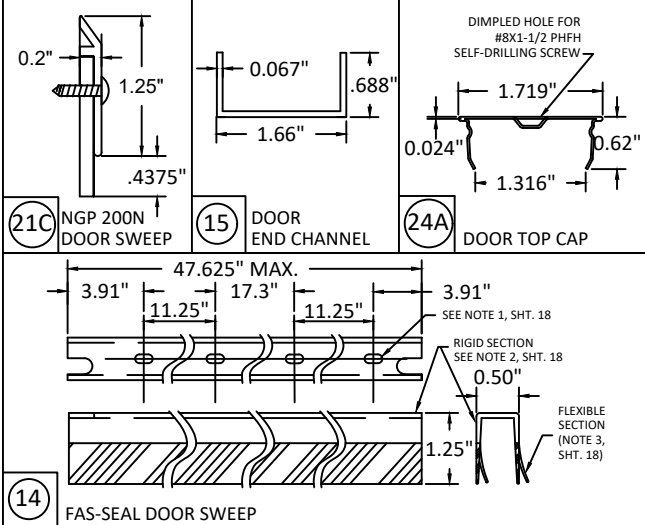
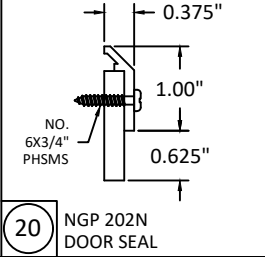
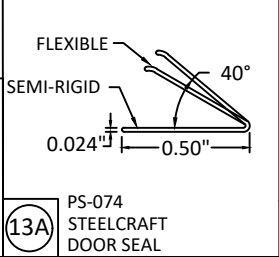
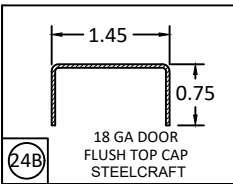
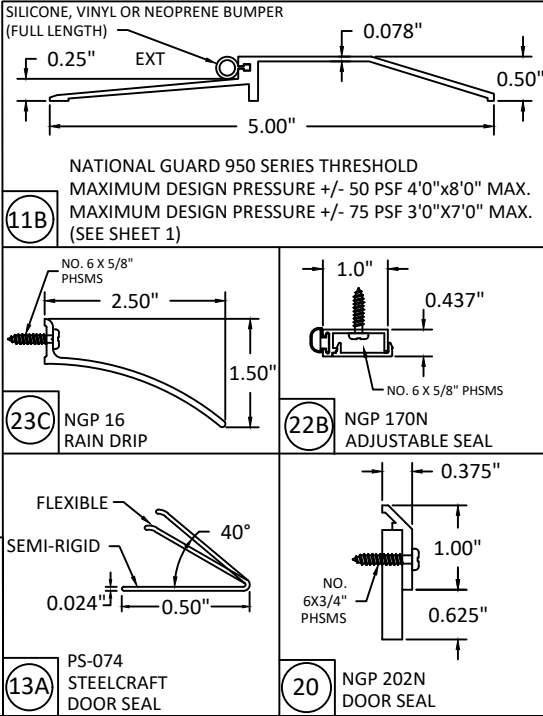
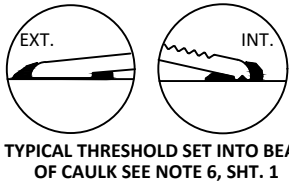
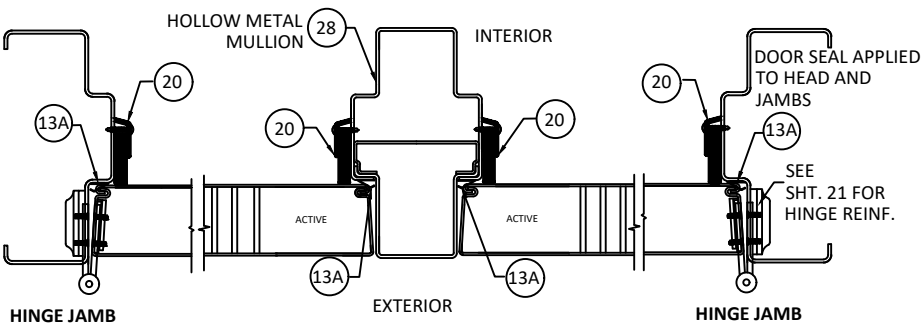
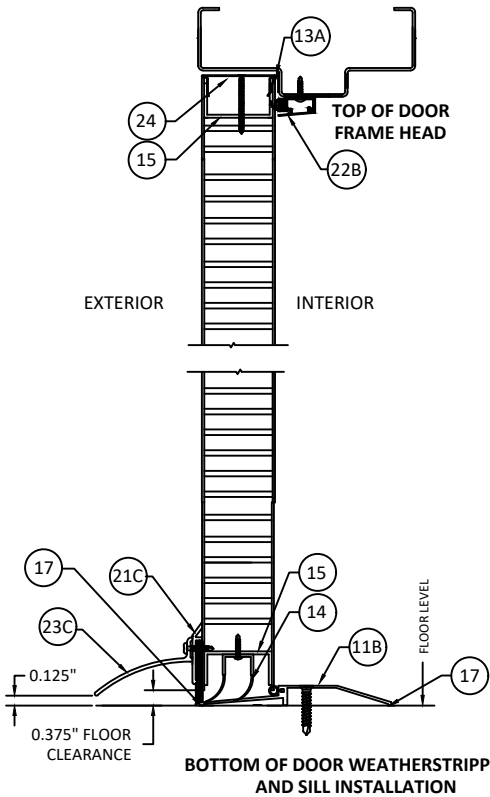


TABLE 6.3 WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950

| ITEM NUMBER | MODEL NO./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 11B         | 950 THRESHOLD          | NGP        |
| 14          | FAS-SEAL SWEEP         | STEELCRAFT |
| 15          | END CHANNEL            | STEELCRAFT |
| 13A         | PS074 DOOR SEAL        | STEELCRAFT |
| 20          | 202N DOOR SEAL         | NGP        |
| 21C         | 200N DOOR SWEEP        | NGP        |
| 22B         | 170N ADJUSTABLE SEAL   | NGP        |
| 23C         | 16A RAIN DRIP          | NGP        |
| 24A         | DOOR TOP CAP           | STEELCRAFT |
| 24B         | FLUSH TOP CAP          | STEELCRAFT |

NGP 950 THRESHOLD GASKETING SYSTEM  
REQUIREMENTS FOR WATER INFILTRATION -  
MAXIMUM DESIGN PRESSURE RATING ±70 PSF FOR  
MAXIMUM DOOR SIZE OF 3'-0" X 7'-0"  
MAXIMUM DESIGN PRESSURE +50/-50 PSF FOR  
MAXIMUM DOOR SIZE OF 4'-0" X 8'-0"  
(SEE CONFIGURATION 10, SHEET 1)

FOR CONFIGURATION:  
10 (SEE ELEVATIONS SHEET 5)



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
  3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
  4. STEELCRAFT INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11A & 11B) AS APPLICABLE.
  5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
  6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
  7. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE.



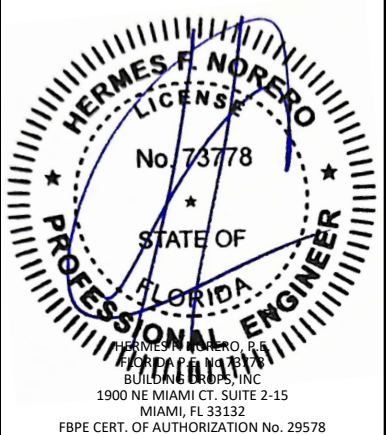
ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)  
GASKETING DETAILS FOR  
WATER INFILTRATION CONT.

PREPARED BY: BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

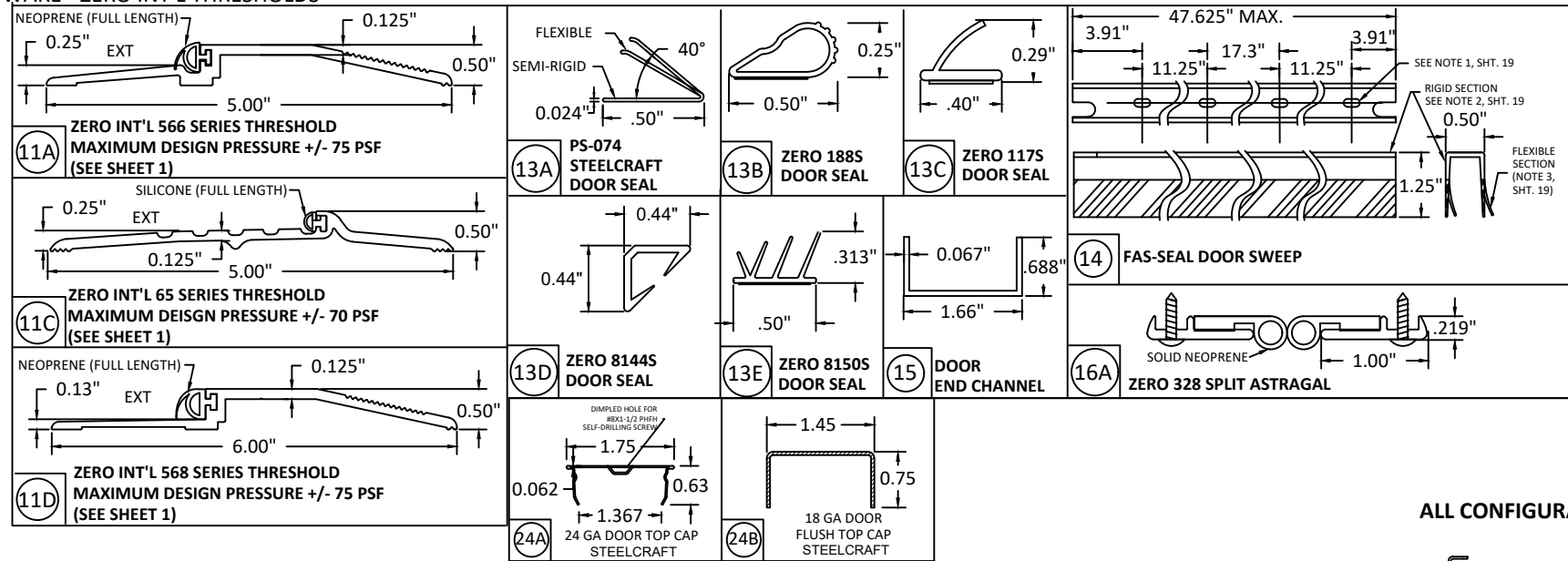
| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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.



|                |              |
|----------------|--------------|
| FL12400        |              |
| DATE: 04.13.22 |              |
| DWG. BY: CPA   | CHK. BY: HFN |
| SCALE: NTS     |              |
| DWG. #: IRFD07 |              |
| SHEET: 18      | OF 34        |

| ITEM NUMBER | MODEL NO./ DESCRIPTION |                 | MFG.       |
|-------------|------------------------|-----------------|------------|
| 11          | 11A                    | 566 THRESHOLD   | ZERO INT'L |
|             | 11C                    | 65 THRESHOLD    | ZERO INT'L |
|             | 11D                    | 568 THRESHOLD   | ZERO INT'L |
| 13          | 13A                    | PS074 DOOR SEAL | STEEECRAFT |
|             | 13B                    | 188S DOOR SEAL  | ZERO INT'L |
|             | 13C                    | 117S DOOR SEAL  | ZERO INT'L |
|             | 13D                    | 8144S DOOR SEAL | ZERO INT'L |
|             | 13E                    | 8150S DOOR SEAL | ZERO INT'L |
| 14          | FAS-SEAL SWEEP         |                 | STEEECRAFT |
| 15          | END CHANNEL            |                 | STEEECRAFT |
| 16A         | 328 SPLIT ASTRAGAL     |                 | ZERO INT'L |
| 24A         | OPTIONAL TOP CAP       |                 | STEELCRAFT |
| 24B         | FLUSH TOP CAP          |                 | STEELCRAFT |



**FOR CONFIGURATIONS:  
1, 1A, 2, 3 & 4 (SEE ELEVATIONS SHEETS 3 & 4)**

DOOR SEAL APPLIED TO HEAD AND JAMBS

13

INTERIOR

INACTIVE

ACTIVE

27

SEE SHT. 21 FOR HINGE REINF.

HINGE JAMB

EXTERIOR

HINGE JAMB

Diagram illustrating the door assembly components and labels:

- HINGE JAMB** (Left side)
- INTERIOR** (Left side of the door)
- ACTIVE** (Left side of the door)
- EXTERIOR** (Right side of the door)
- HINGE JAMB** (Right side)
- DOOR SEAL APPLIED TO HEAD AND JAMBS** (Right side)
- 13** (Right side)
- 16A** (Right side)
- SPLIT ASTRAGAL** (Right side)
- SEE SHT. 3 FOR HINGE REINF.** (Right side)

VON DUPRIN MULLION

2A 2B

INTERIOR

DOOR SEAL APPLIED TO HEAD AND JAMBS

13

ACTIVE

16A

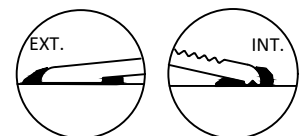
SPLIT ASTRAGAL

HINGE JAMB

SEE SHT. 21 FOR HINGE REINF.

Diagram illustrating the door assembly details, showing the hinge jamb, exterior, and interior views. The diagram includes the following components and callouts:

- HINGE JAMB**: The vertical frame on the left side of the door.
- EXTERIOR**: The outer side of the door assembly.
- INTERIOR**: The inner side of the door assembly.
- HOLLOW METAL MULLION**: The vertical structural member separating the exterior and interior.
- DOOR SEAL APPLIED TO HEAD AND JAMBS**: The seal located at the top and sides of the door frame.
- ACTIVE**: The area of the door that is active during operation.
- SEE SHT. 21 FOR HINGE REINF.**: Reference to the next sheet for hinge reinforcement details.
- Callouts**:
  - 13**: Points to the hinge jamb and the active area.
  - 28**: Points to the hollow metal mullion.



NOTES:

1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
4. STEELCRAFT INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (14), DOOR SEAL (13A, 13B, 13C, 13D & 13E) AND THRESHOLD (11A, 11C & 11D) AS APPLICABLE.
5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
7. REPUBLIC INSTALLATIONS REQUIRE DOOR SEAL (13A, 13B, 13C, 13D & 13E) AND THRESHOLD (11A, 11C & 11D) AS APPLICABLE.
8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE.



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.

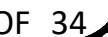
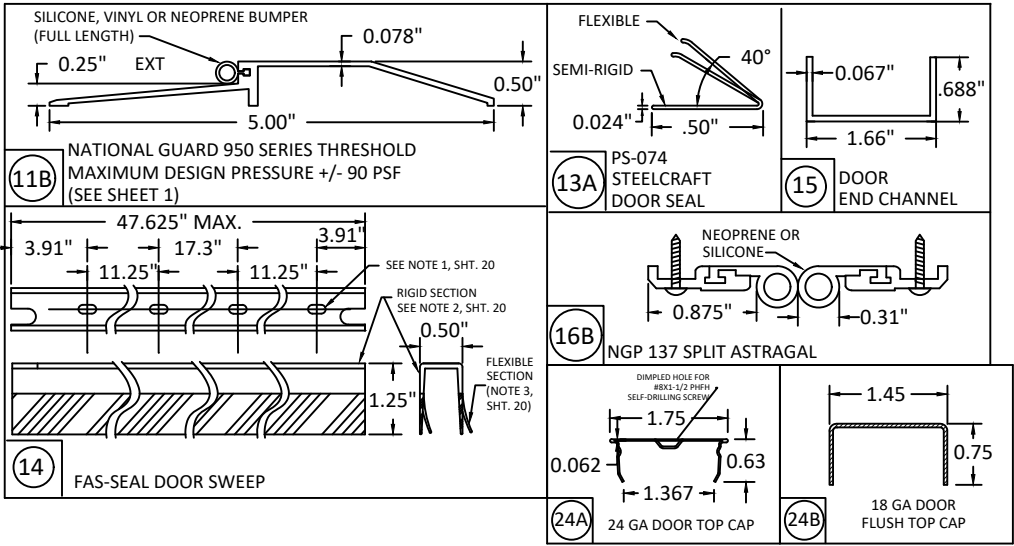


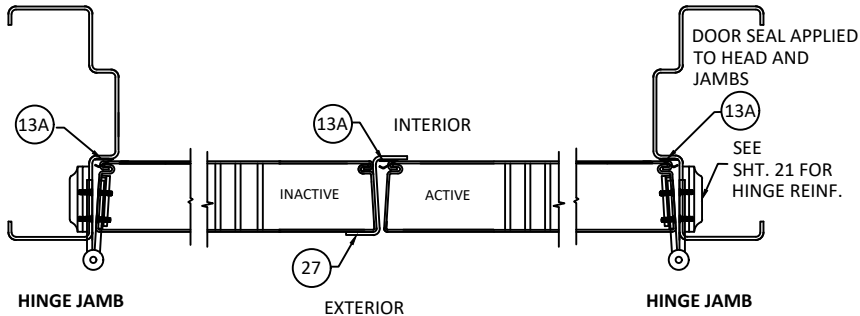
TABLE 7.2 NON WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD

| ITEM NUMBER | MODEL NO./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 11B         | 950 THRESHOLD          | NGP        |
| 13A         | PS074 DOOR SEAL        | STEELCRAFT |
| 14          | FAS-SEAL SWEEP         | STEELCRAFT |
| 15          | END CHANNEL            | STEELCRAFT |
| 16B         | 137 SPLIT ASTRAGAL     | NGP        |
| 24A         | OPTIONAL TOP CAP       | STEELCRAFT |
| 24B         | FLUSH TOP CAP          | STEELCRAFT |

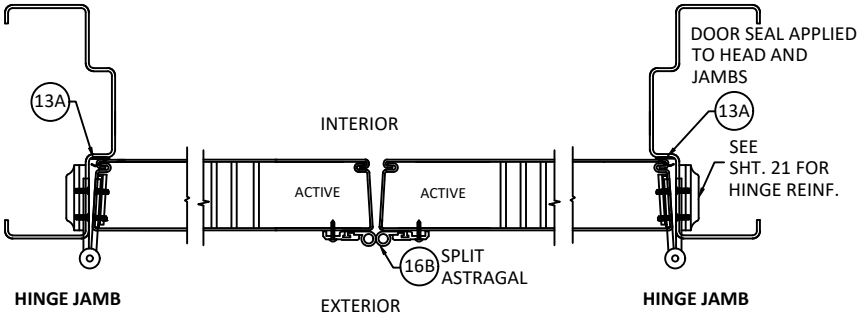
NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED - MAXIMUM DESIGN PRESSURE 90 PSF FOR MAXIMUM DOOR SIZE OF 4'-0" X 8'-0" EXCEPT CONFIGURATION 10 LIMITED TO MAX 70 PSF (SEE SHEET 1)



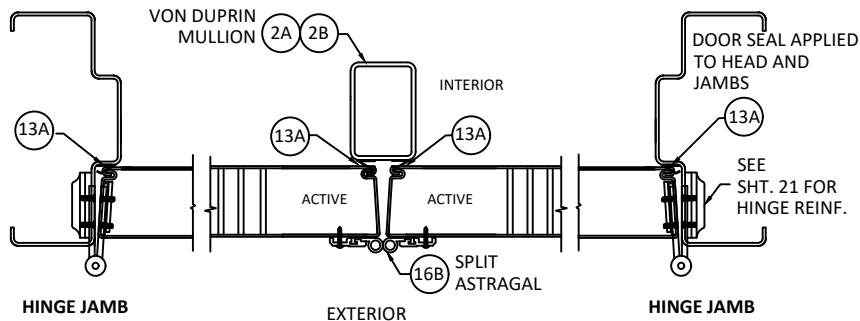
FOR CONFIGURATIONS: 1, 1A, 2, 3 & 4 (SEE ELEVATIONS SHEET 3 & 4)



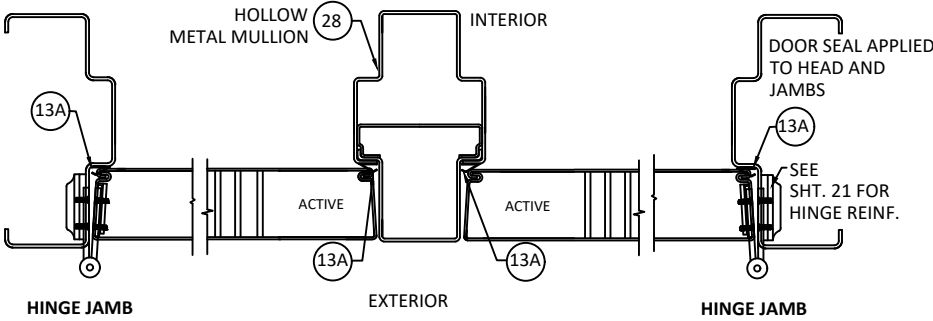
FOR CONFIGURATIONS: 7 & 8 (SEE ELEVATIONS SHEET 4 & 5)



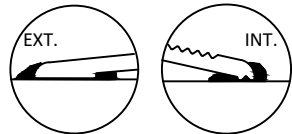
FOR CONFIGURATIONS: 5, 6, 9, & 11 (SEE ELEVATIONS SHEET 4 & 5)



FOR CONFIGURATION: 10 (SEE ELEVATIONS SHEET 5)

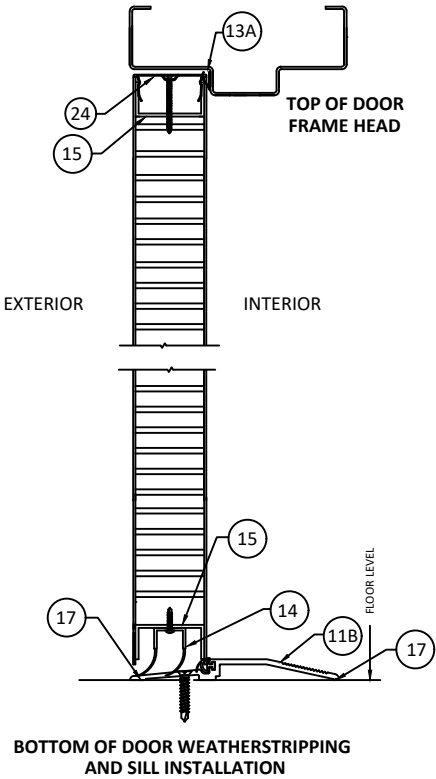


- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
  3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
  4. STEELCRAFT INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (14), DOOR SEAL (13A) AND THRESHOLD (11B) AS APPLICABLE.
  5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
  6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SLICONE CAULK FULL LENGTH OF SILL.
  7. REPUBLIC INSTALLATIONS REQUIRE DOOR SEAL (13A) AND THRESHOLD (11B) AS APPLICABLE.
  8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE.



TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6, SHT. 1

ALL CONFIGURATIONS



ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH COMMERCIAL STEEL DOOR (HVHZ)(IMPACT)  
NGP GASKETING DETAILS FOR NO WATER INFILTRATION

PREPARED BY: BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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DATE: 04.13.22

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CHK. BY: HFN

SCALE: NTS

DWG. #: IRFD07

SHEET:

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ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)  
HINGES, TRESHOLDS, CHANNELS,  
& STRIKE REINFORCEMENTS

PREPARED BY: BUILDING DROPS, INC.  
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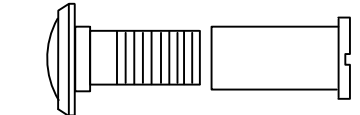
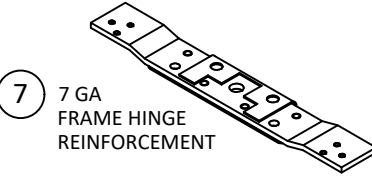
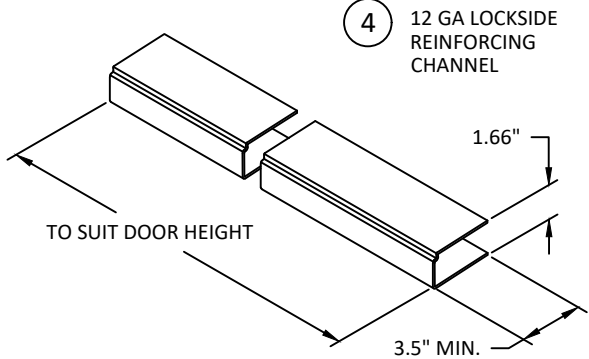
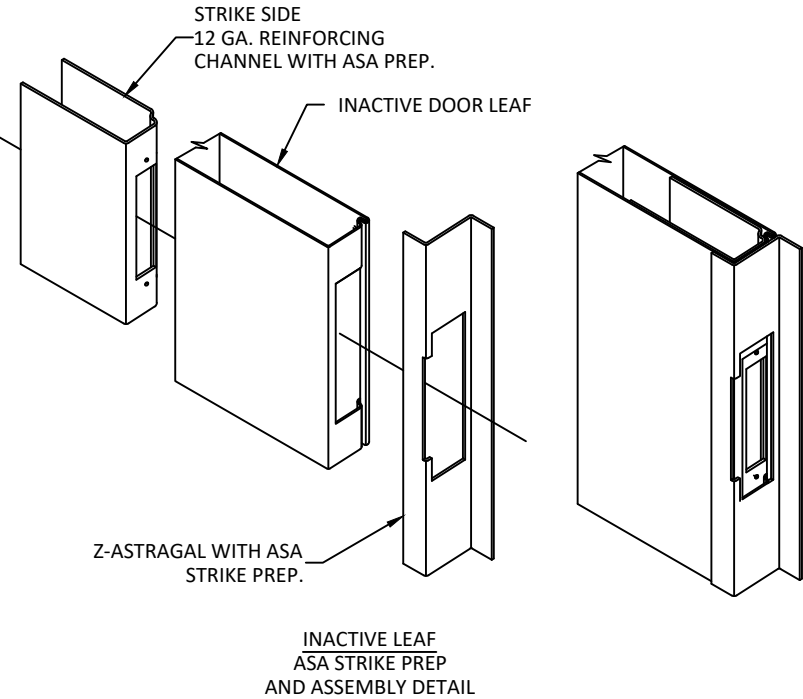
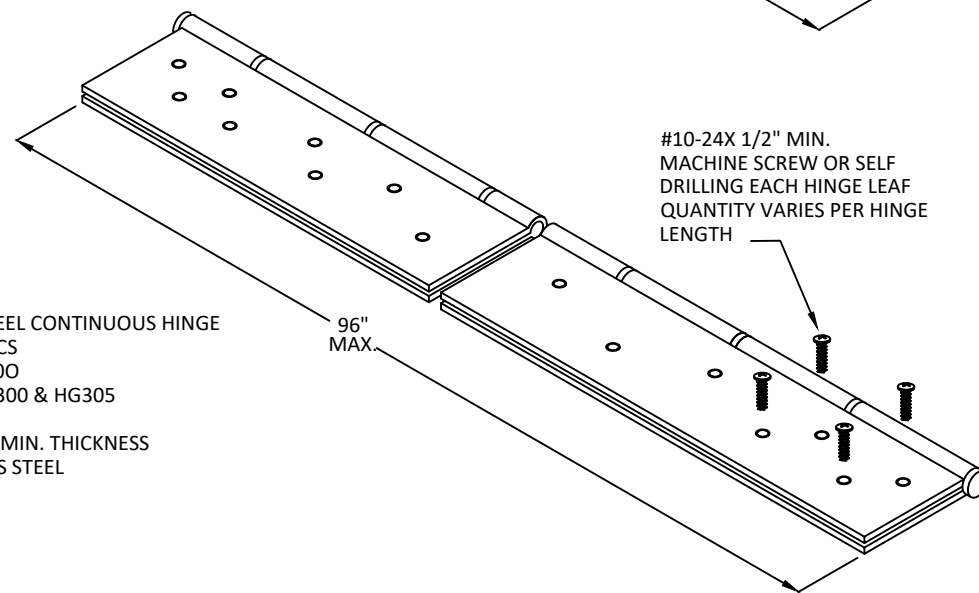
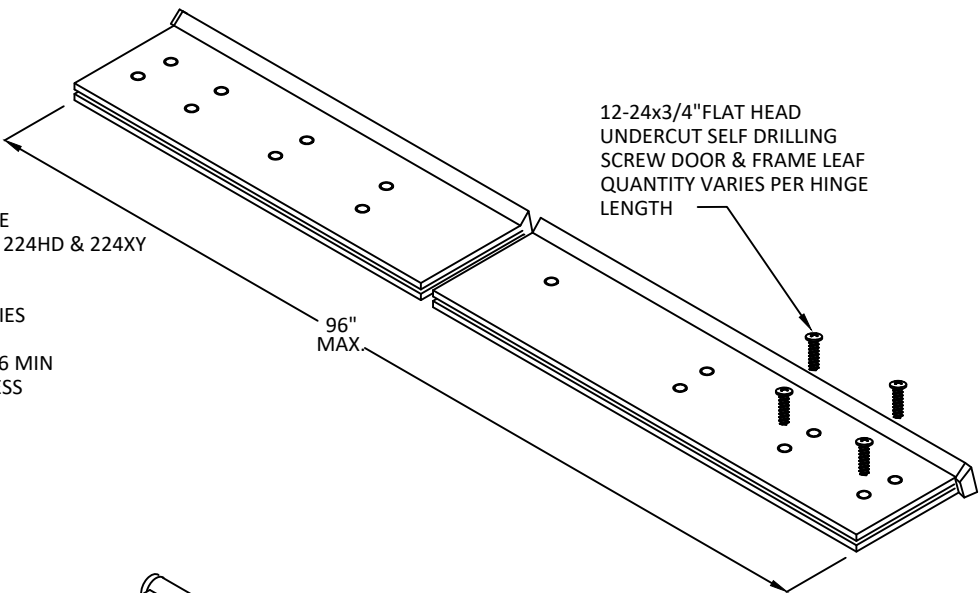
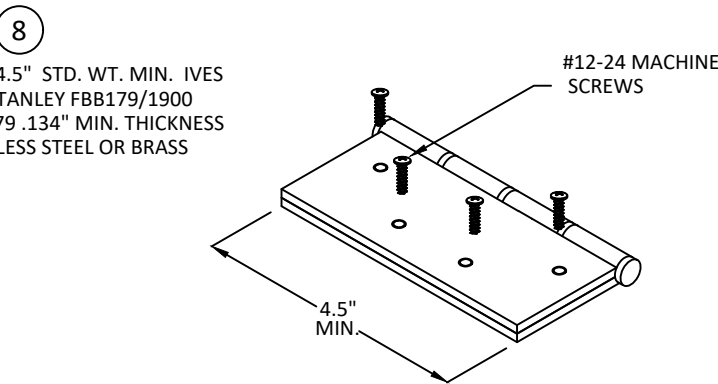
SCALE: NTS

DWG. #: IRFD07

SHEET:

21

OF 34



HINGE NOTES:  
1. QUANTITY OF SCREWS VARIES PER HINGE LENGTH, MANUFACTURER AND MODEL NUMBER  
2. SCREW SPACING VARIES PER HINGE LENGTH, MANUFACTURER AND MODEL NUMBER  
3. INSTALL HINGES PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS  
4. BUTT AND CONTINUOUS HINGES MAY INCLUDE ELECTRICAL THROUGH-WIRE, POWER TRANSFER AND MONITORING  
5. DOORS AND FRAMES DO NOT REQUIRE ADDITIONAL REINFORCEMENT WITH A CONTINUOUS HINGE.



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COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

MULLION DETAILS

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**HOLLOW METAL MULLION  
DOUBLE RABBETED  
SHOWN**

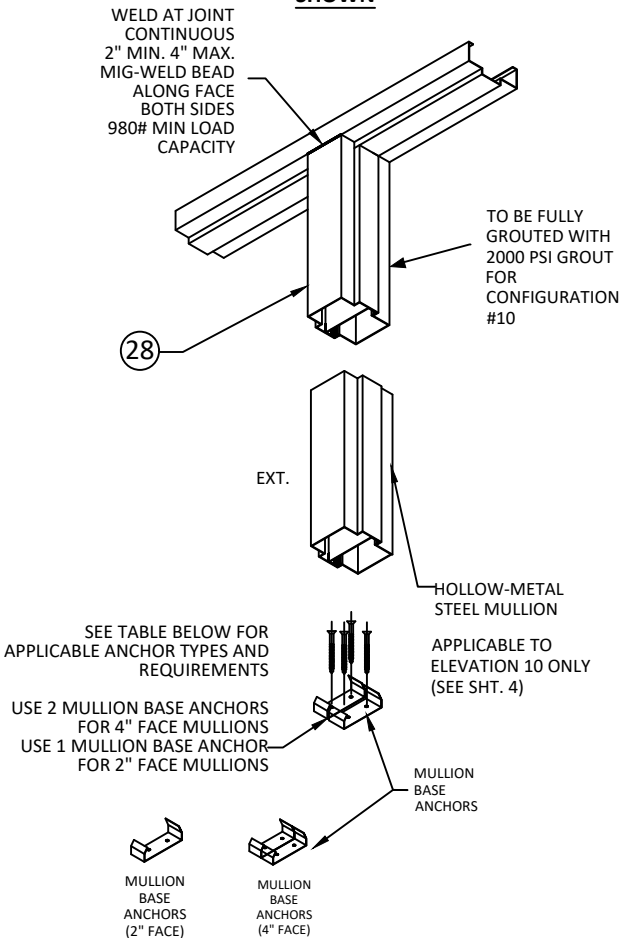
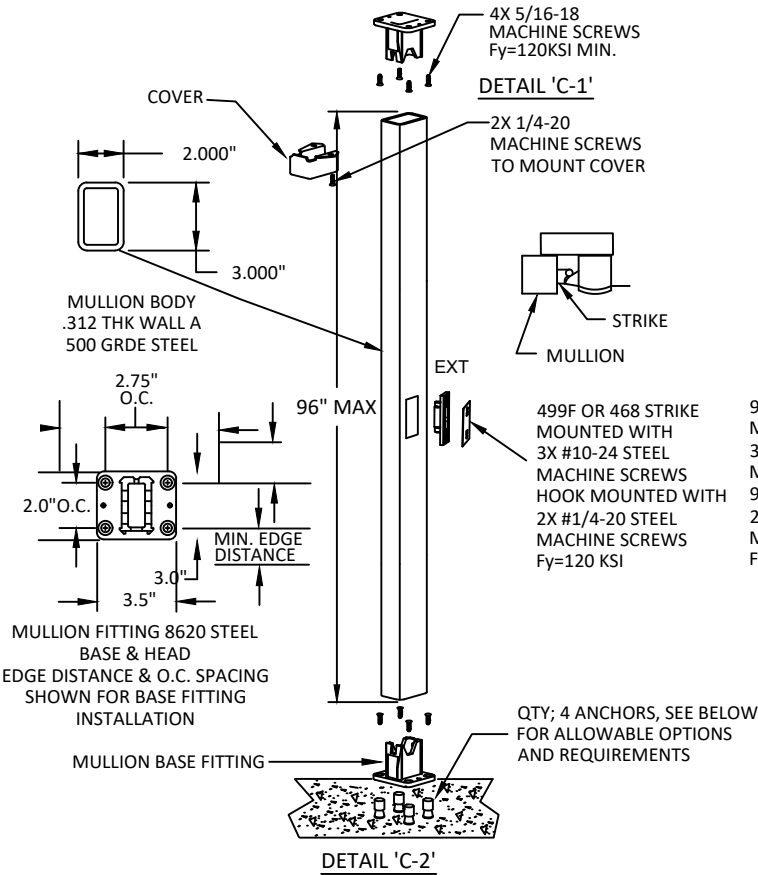


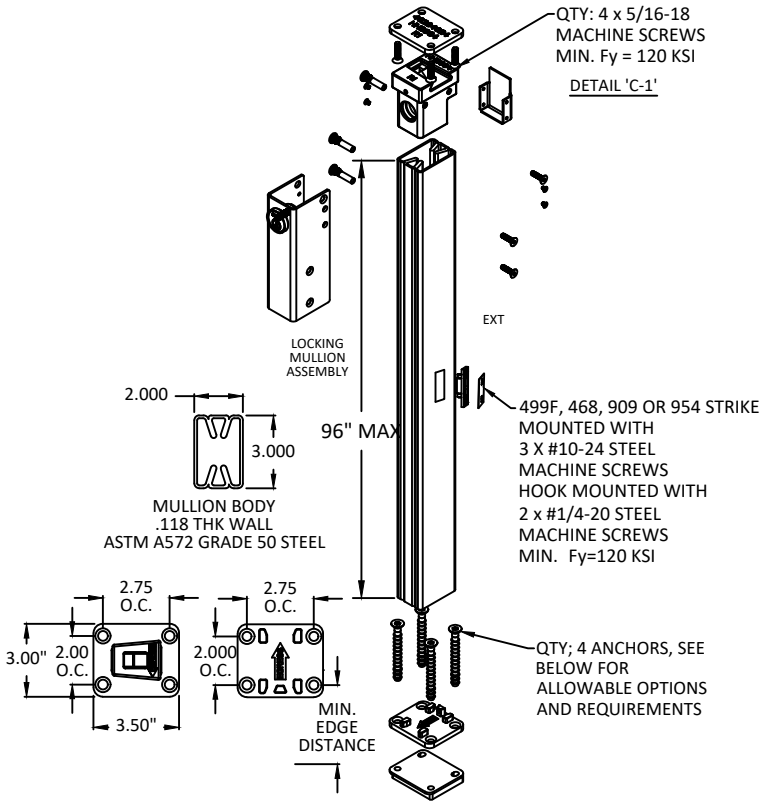
TABLE 8: ANCHOR TYPES AND REQUIREMENTS FOR HOLLOW METAL MULLION

| ANCHOR                         | EMBEDMENT | EDGE DISTANCE | CONC. STRENGTH | SPACING | QUANTITY                                        |
|--------------------------------|-----------|---------------|----------------|---------|-------------------------------------------------|
| ELCO 5/16" ULTRACON            | 2"        | 3.75"         | 3515 PSI       | 3-3/8"  | 2 PER BASE ANCHOR (2 FOR 2" FACE 4 FOR 4" FACE) |
| DEWALT/POWERS 3/8" POWER-BOLT  | 2"        |               | 3000 PSI       |         |                                                 |
| DEWALT/POWERS 3/8" LOK BOLT AS | 1-1/4"    |               |                |         |                                                 |
| HILTI 3/8" KWIK BOLT TZ2       | 2"        |               |                |         |                                                 |

**VON DUPRIN MULLION  
2A  
HH9954 MULLION**

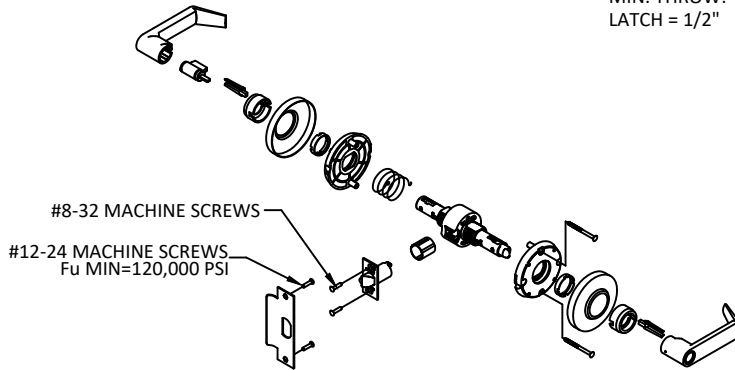
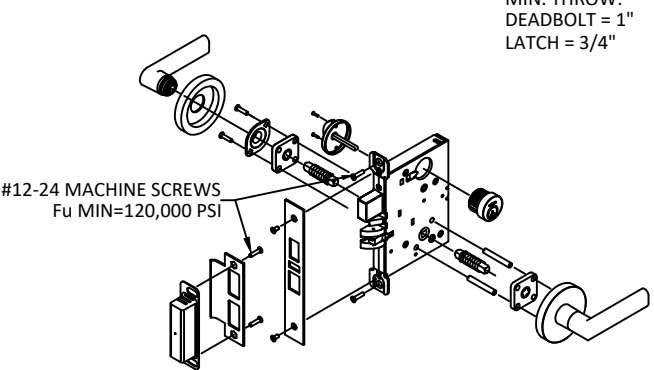
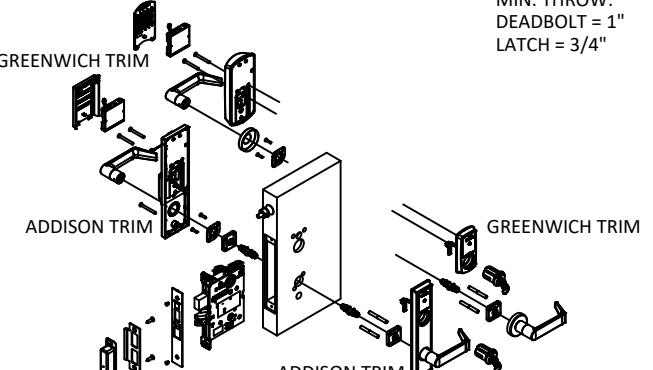
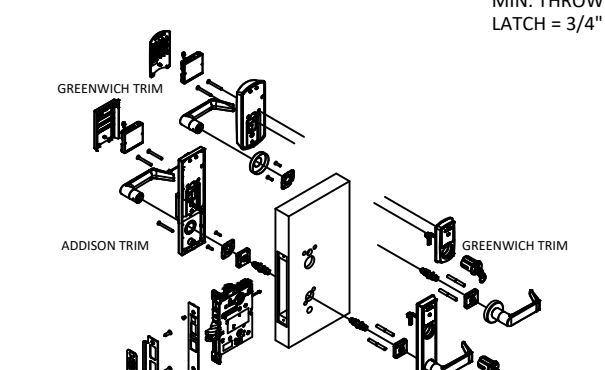
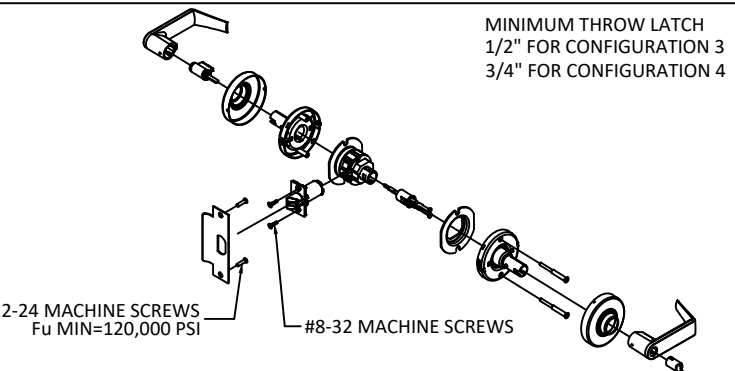
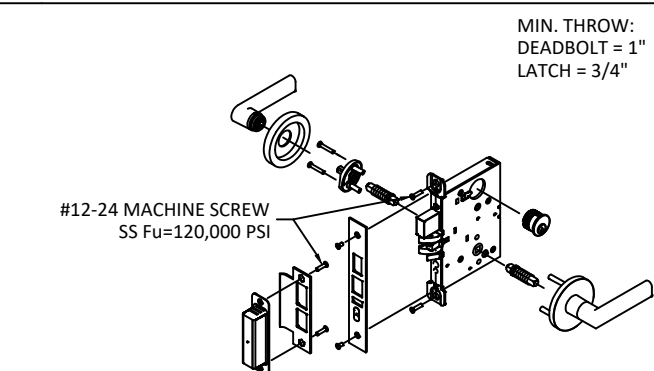
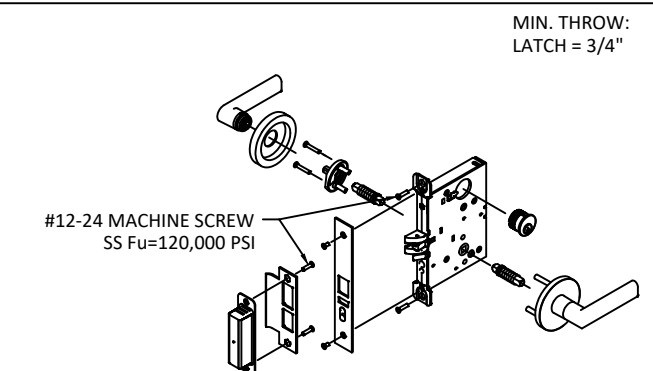
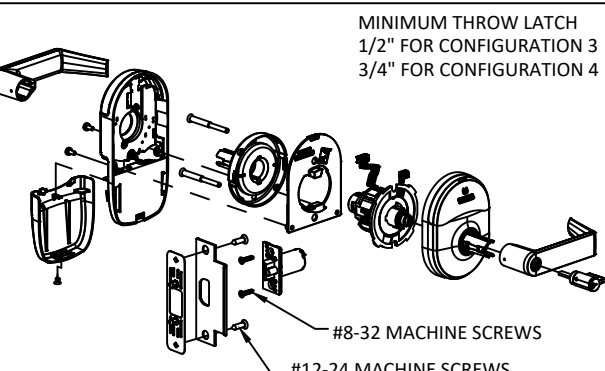
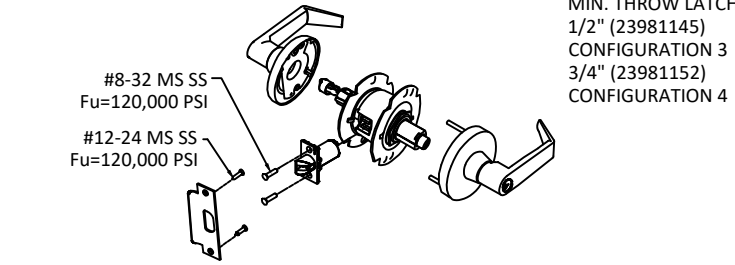
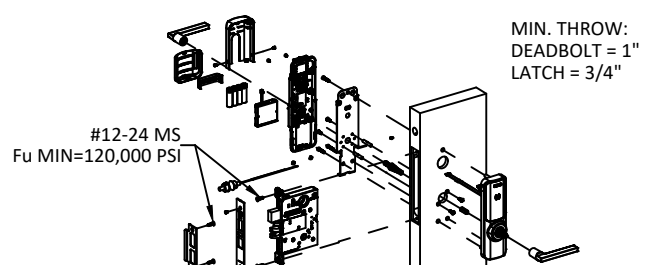
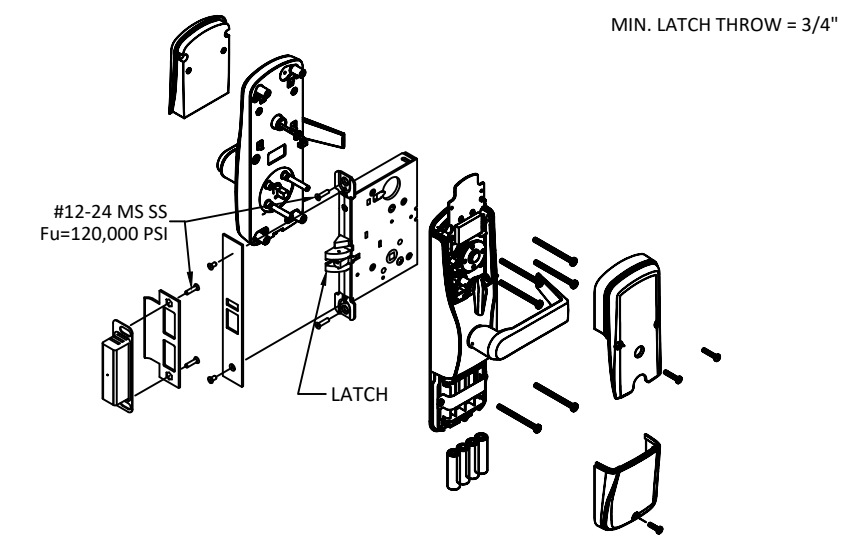
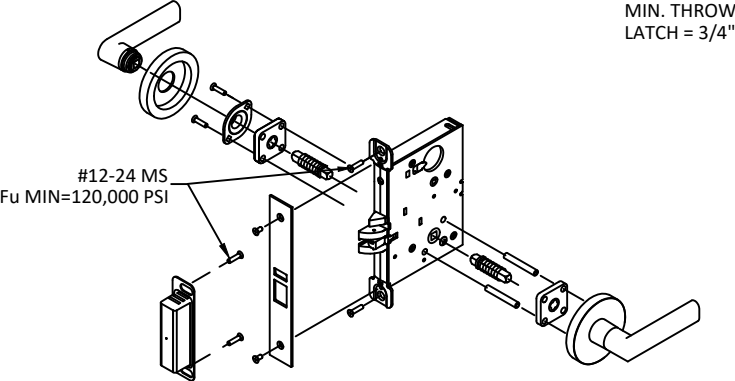
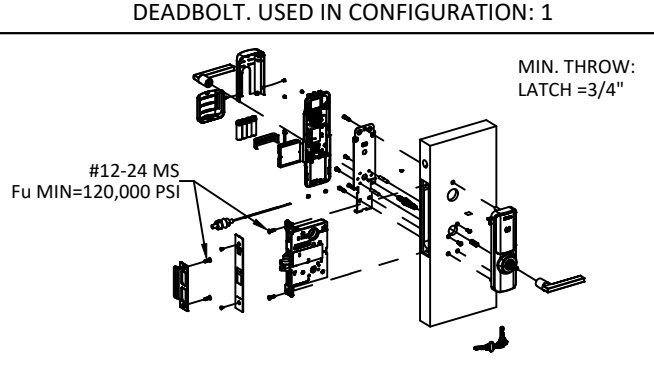


**2B VON DUPRIN MULLION  
9964 OR KR9964 MULLION**



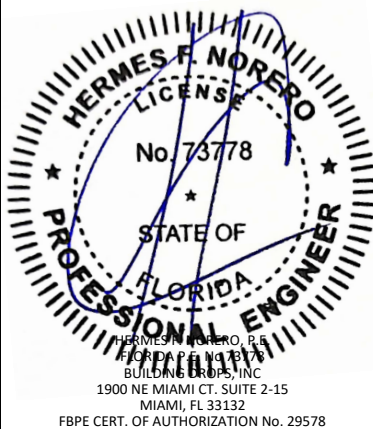
**MULLION EXPANSION ANCHOR NOTES:**

ALLOWABLE ANCHOR TYPES ARE (SEE ABOVE FOR SPACING REQUIREMENTS):  
1/4" DEWALT/POWERS SMART DI+ EXPANSION ANCHORS WITH MIN 1" EMBEDMENT AND 2.8" EDGE  
DISTANCE IN 3000 PSI CONCRETE  
OR  
1/4" HILTI KB-TZ2 (CS OR SS) 1-1/2" EMBEDMENT WITH MIN 3.25" EDGE DISTANCE IN 4000 PSI  
CONCRETE  
OR  
1/4" CS SIMPSON TITEN HD (316 S.S.) HEAVY-DUTY WITH MINIMUM 2.8" MIN. EDGE DISTANCE IN  
3000 PSI CONCRETE

|                                                                                                                                                                                             |                                                                                                                                            |                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>MIN. THROW:<br/>LATCH = 1/2"</p>                                                                        |  <p>MIN. THROW:<br/>DEADBOLT = 1"<br/>LATCH = 3/4"</p>   |  <p>MIN. THROW:<br/>DEADBOLT = 1"<br/>LATCH = 3/4"</p>                                                                                                                                                                |  <p>MIN. THROW:<br/>LATCH = 3/4"</p>                                                  |
| SCHLAGE AL SERIES<br>CYLINDRICAL LEVER LOCKSET WITH 1/2" THROW LATCH<br>USED IN CONFIGURATION: 2                                                                                            | SCHLAGE L/LV 9400 & PM400 SERIES MORTISE<br>LOCKSET W/ DEADBOLT. USED IN CONFIGURATION: 1                                                  | SCHLAGE LE-MD & LEB-MD SERIES MORTISE LOCKSET<br>W/ DEADBOLT. USED IN CONFIGURATION: 1                                                                                                                                                                                                                   | SCHLAGE LE-MS, LEB-MS, LE-MB, & LEB-MB<br>SERIES MORTISE LOCKSET<br>W/O DEADBOLT. USED IN CONFIGURATION: 1A                                                              |
|  <p>MINIMUM THROW LATCH<br/>1/2" FOR CONFIGURATION 3<br/>3/4" FOR CONFIGURATION 4</p>                       |  <p>MIN. THROW:<br/>DEADBOLT = 1"<br/>LATCH = 3/4"</p>   |  <p>MIN. THROW:<br/>LATCH = 3/4"</p>                                                                                                                                                                                  |  <p>MINIMUM THROW LATCH<br/>1/2" FOR CONFIGURATION 3<br/>3/4" FOR CONFIGURATION 4</p> |
| SCHLAGE D/ND-SERIES CYLINDRICAL LOCKSET.<br>USED IN CONFIGURATIONS: 3 & 4                                                                                                                   | FALCON MA-SERIES MORTISE LOCKSET W/<br>DEADBOLT USED IN CONFIGURATION: 1                                                                   | FALCON MA-SERIES MORTISE LOCKSET W/O<br>DEADBOLT USED IN CONFIGURATION: 1A                                                                                                                                                                                                                               | SCHLAGE NDE & NDEB SERIES CYLINDRICAL LOCKSET<br>USED IN CONFIGURATIONS: 3 & 4                                                                                           |
|  <p>MIN. THROW LATCH:<br/>1/2" (23981145)<br/>CONFIGURATION 3<br/>3/4" (23981152)<br/>CONFIGURATION 4</p> |  <p>MIN. THROW:<br/>DEADBOLT = 1"<br/>LATCH = 3/4"</p> |  <p>MIN. LATCH THROW = 3/4"</p>                                                                                                                                                                                     |                                                                                                                                                                          |
| FALCON, T & TM -SERIES CYLINDRICAL LEVER LOCKSET<br>USED IN CONFIGURATIONS: 3 & 4                                                                                                           | SCHLAGE XE360-M-D SERIES MORTISE LOCKSET W/<br>DEADBOLT. USED IN CONFIGURATION: 1                                                          | SCHLAGE AD-MS & CO-MS SERIES MORTISE LOCK WITHOUT DEADBOLT<br>USED IN CONFIGURATION: 1A                                                                                                                                                                                                                  |                                                                                                                                                                          |
|  <p>MIN. THROW:<br/>LATCH = 3/4"</p>                                                                      |  <p>MIN. THROW:<br/>LATCH = 3/4"</p>                   | <p>NOTE:<br/>1. ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE.<br/>INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE<br/>CORRESPONDING AUTHORITY. FIRE RATING NOT PART OF THIS APPROVAL, CONSULT<br/>MANUFACTURER FOR APPROVED CONFIGURATIONS.</p> |                                                                                                                                                                          |
| SCHLAGE L/LV 9000 & PM SERIES MORTISE LOCK WITHOUT DEADBOLT<br>USED IN CONFIGURATION: 1A                                                                                                    | SCHLAGE XE360-M-B & XE360-M-I SERIES MORTISE<br>LOCKSET W/O DEADBOLT USED IN CONFIGURATION: 1A                                             |                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                          |

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COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

LOCKING HARDWARE CONT.

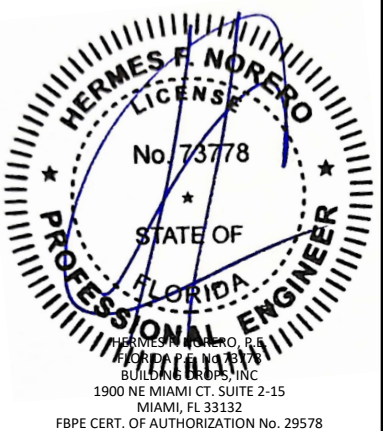
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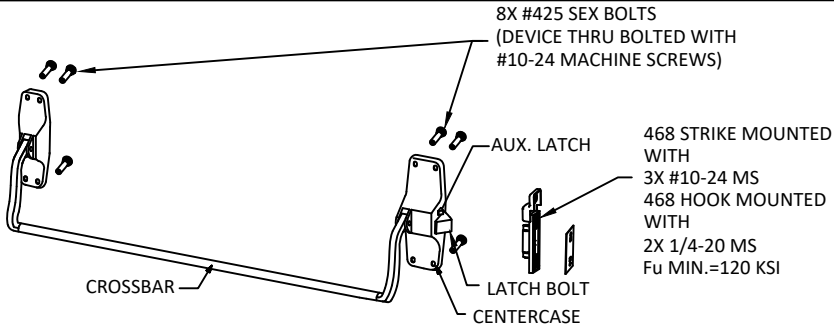


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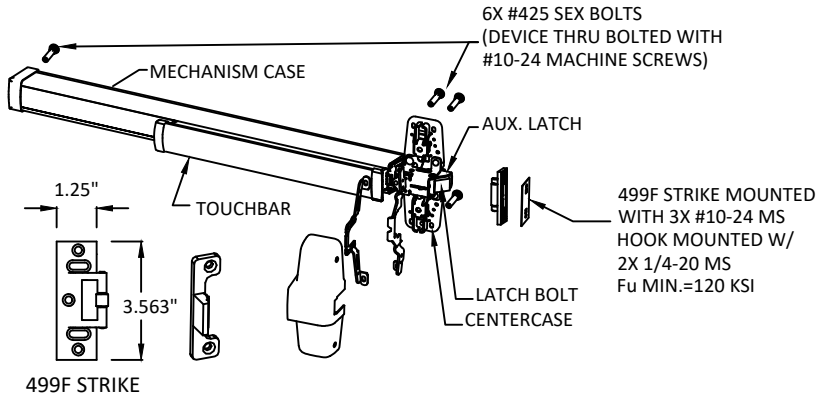
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|----------|----------|
| DATE:    | 04.13.22 |
| DWG. BY: | CPA      |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | IRFD07   |
| SHEET:   |          |

24

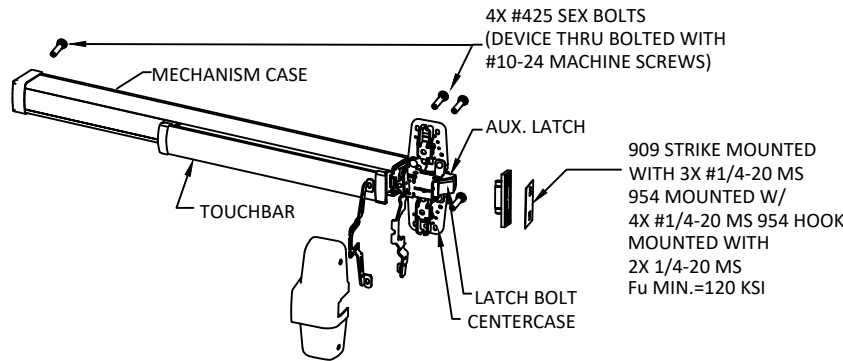
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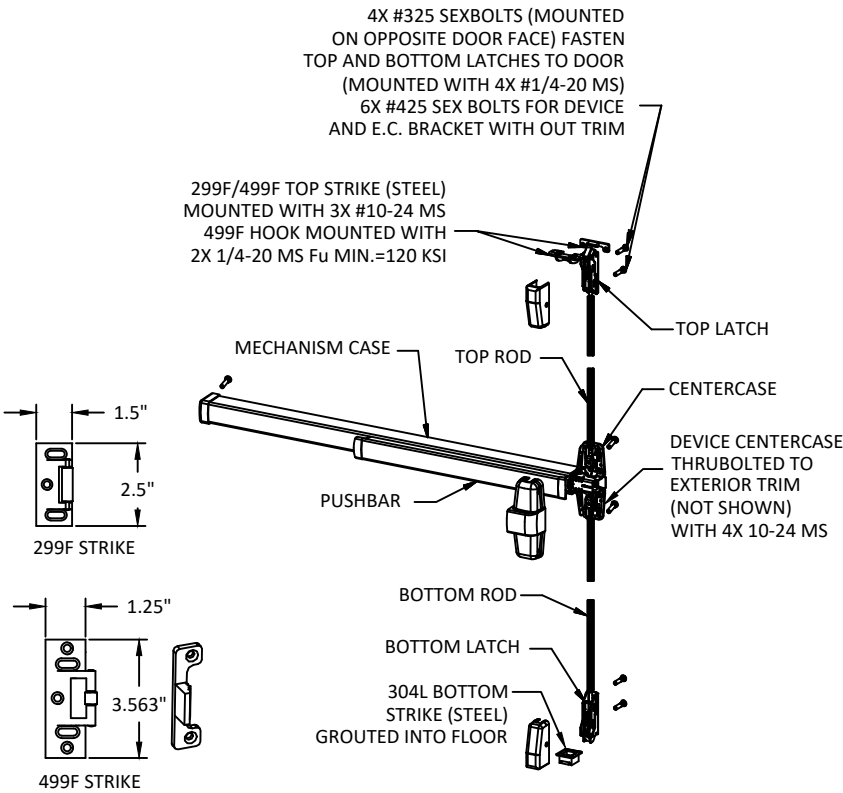
VON DUPRIN 88-F RIM DEVICE  
USED IN CONFIRATION: 6



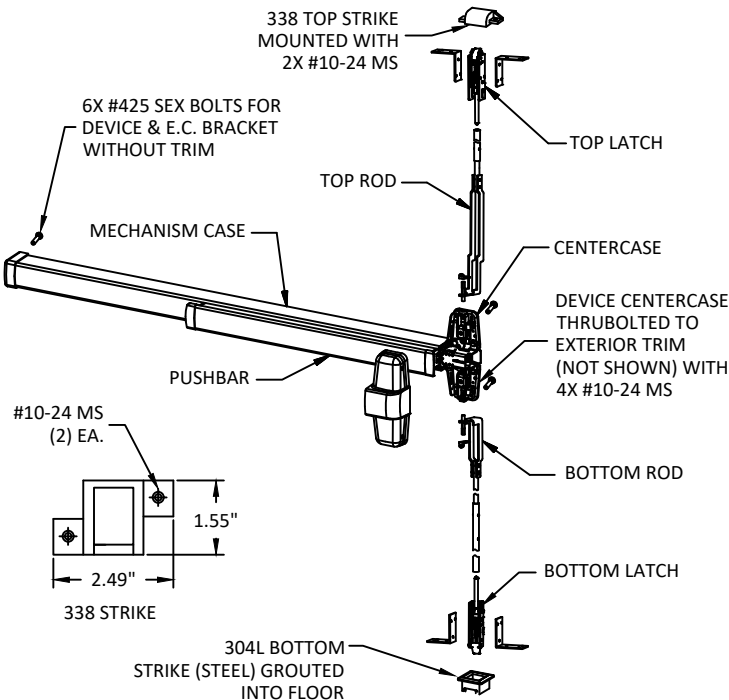
VON DUPRIN 98, 99, 98-F, 99-F, HH78 & HH78-F  
RIM DEVICE USED IN CONFIGURATION: 6



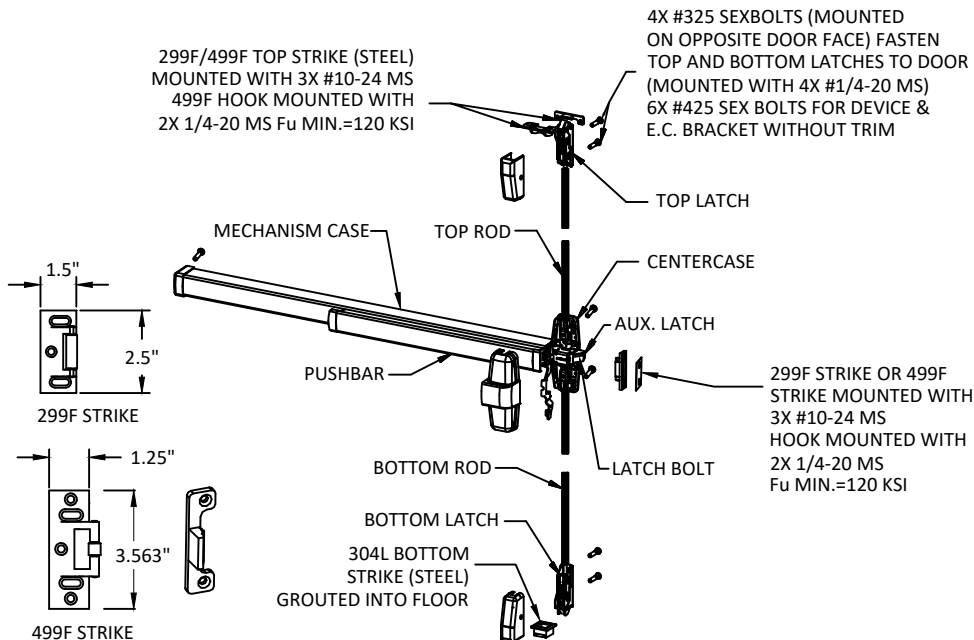
VON DUPRIN XP98, XP99, XP98-F, XP99-F  
USED IN CONFIGURATION: 5



VON DUPRIN 98/9927, 98/9927-F, HH7827 & HH7827-F  
SURFACE VERTICAL ROD EXIT DEVICE  
USED IN CONFIGURATION: 7



VON DUPRIN 98/9947-F, HH98/9947, HH7847, HH7847-F WITH 2-3/4" BACKSET  
CONCEALED VERTICAL ROD EXIT DEVICE  
USED IN CONFIGURATION: 8



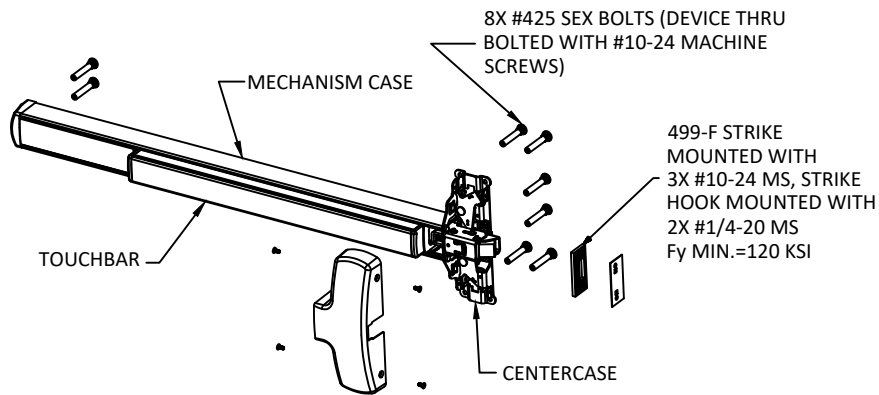
VON DUPRIN 98/9957 OR 98/9957-F THREE-POINT LATCHING DEVICE  
USED IN CONFIGURATIONS: 9 & 10

NOTE:

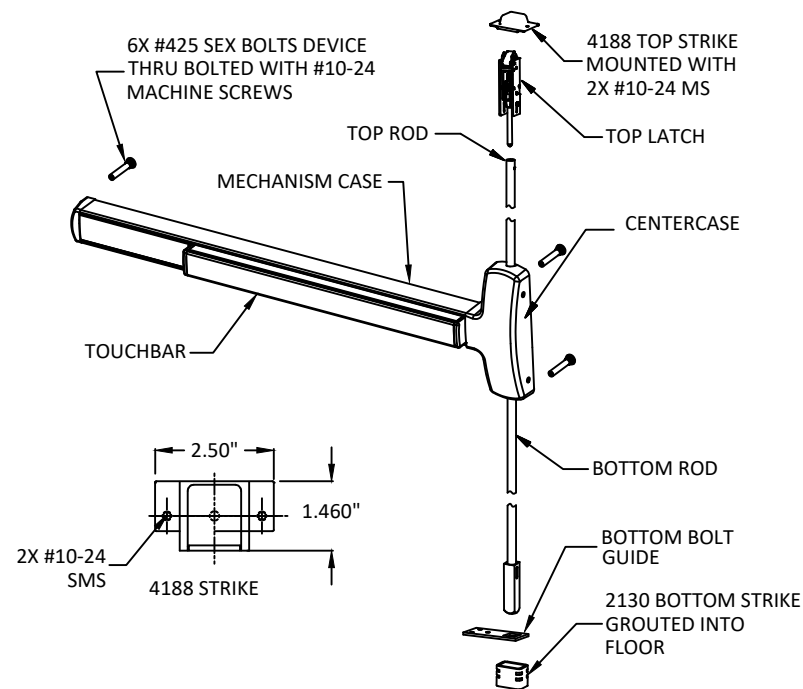
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EXIT HARDWARE OPTIONS:

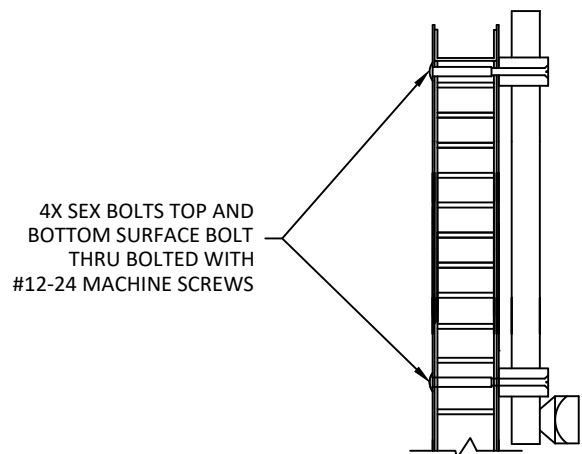
- FOR 98/99, HH78 & XP98/99 SERIES - OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN;  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.
- FOR 88-F SERIES - OPTIONS E; TRIM: ALL APPLICABLE TRIMS AVAILABLE. PN MODEL OFFERED.



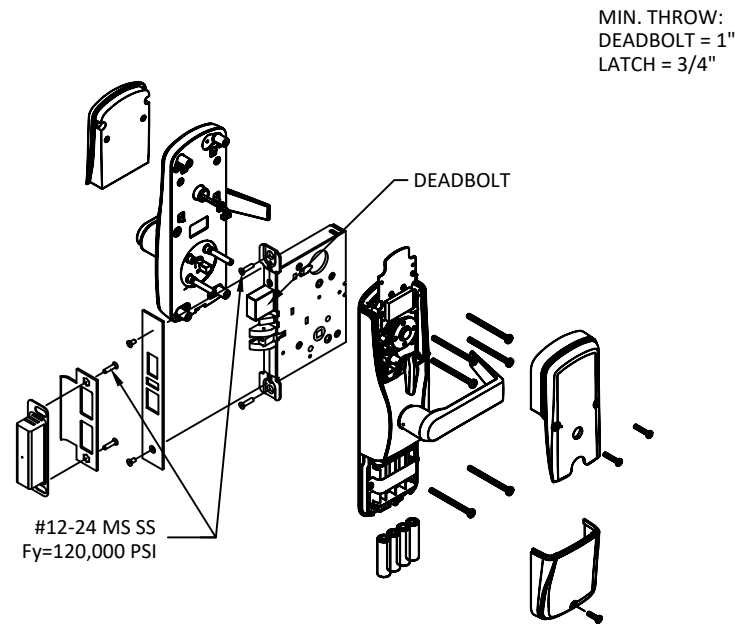
FALCON F-25-R, 25-R RIM EXIT DEVICE  
USED IN DOOR CONFIGURATION 11 (SEE SHT. 5)



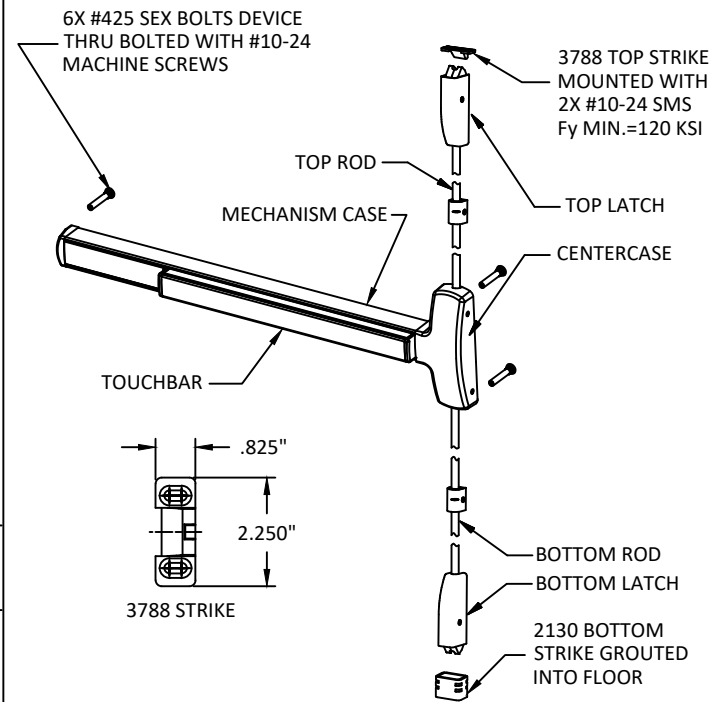
FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE  
USED IN DOOR CONFIGURATION 8 (SEE SHT. 5)



IVES SURFACE BOLT SB360  
USED ON INACTIVE DOOR FOR CONFIGURATIONS: 1, 1A, 2, 3, 4



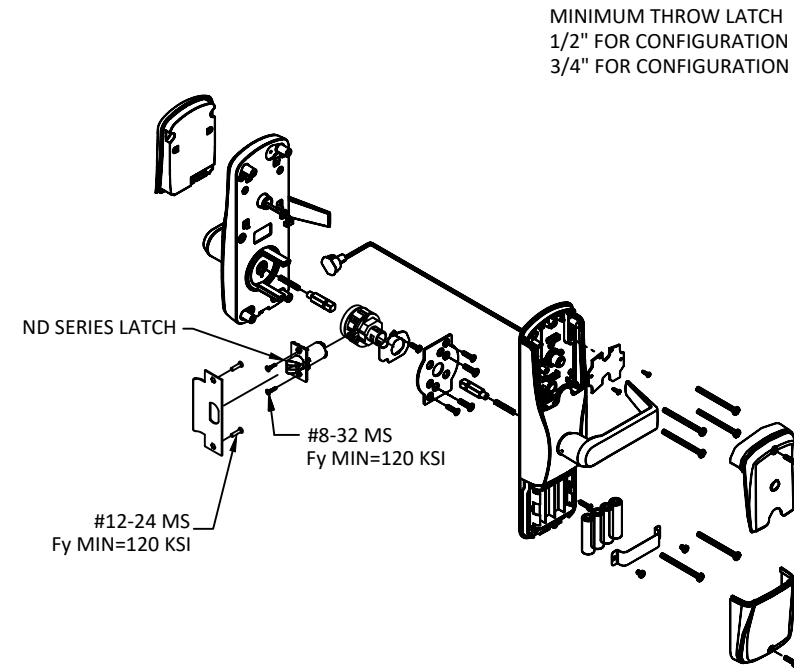
SCHLAGE AD-MD & CO-MD SERIES MORTISE LOCKSET WITH DEADBOLT  
USED IN CONFIGURATIONS: 1 (SEE SHT. 3)



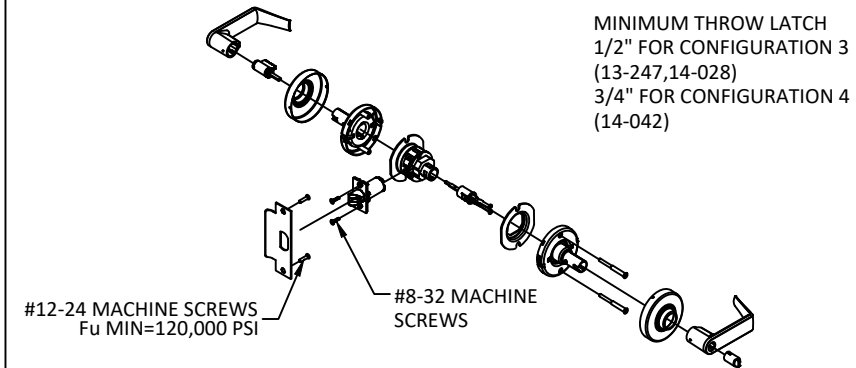
FALCON F-25-V, 25-V SURFACE VERTICAL ROD EXIT DEVICE  
USED IN DOOR CONFIGURATION 7 (SEE SHT. 4)

NOTE:  
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EXIT HARDWARE OPTIONS:  
1. F-25-C & (F)25-V (F) 25-R SERIES - OPTIONS AE, DM, LM,KOR, MEL, EA, FSA, FSE, CD, RX, LD  
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.



SCHLAGE AD-CY & CO-CY SERIES CYLINDRICAL LOCKSET  
USED IN CONFIGURATIONS: 3 & 4 (SEE SHTS. 3 & 4)



SCHLAGE ALX & PC SERIES CYLINDRICAL LOCKSET  
USED IN CONFIGURATIONS: 3 & 4



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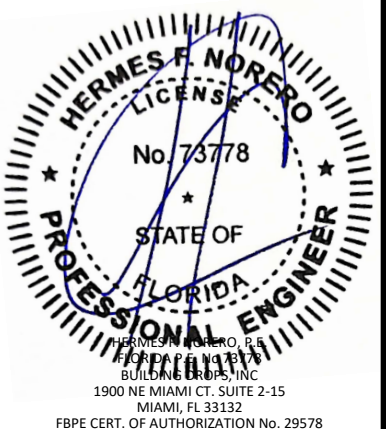
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| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

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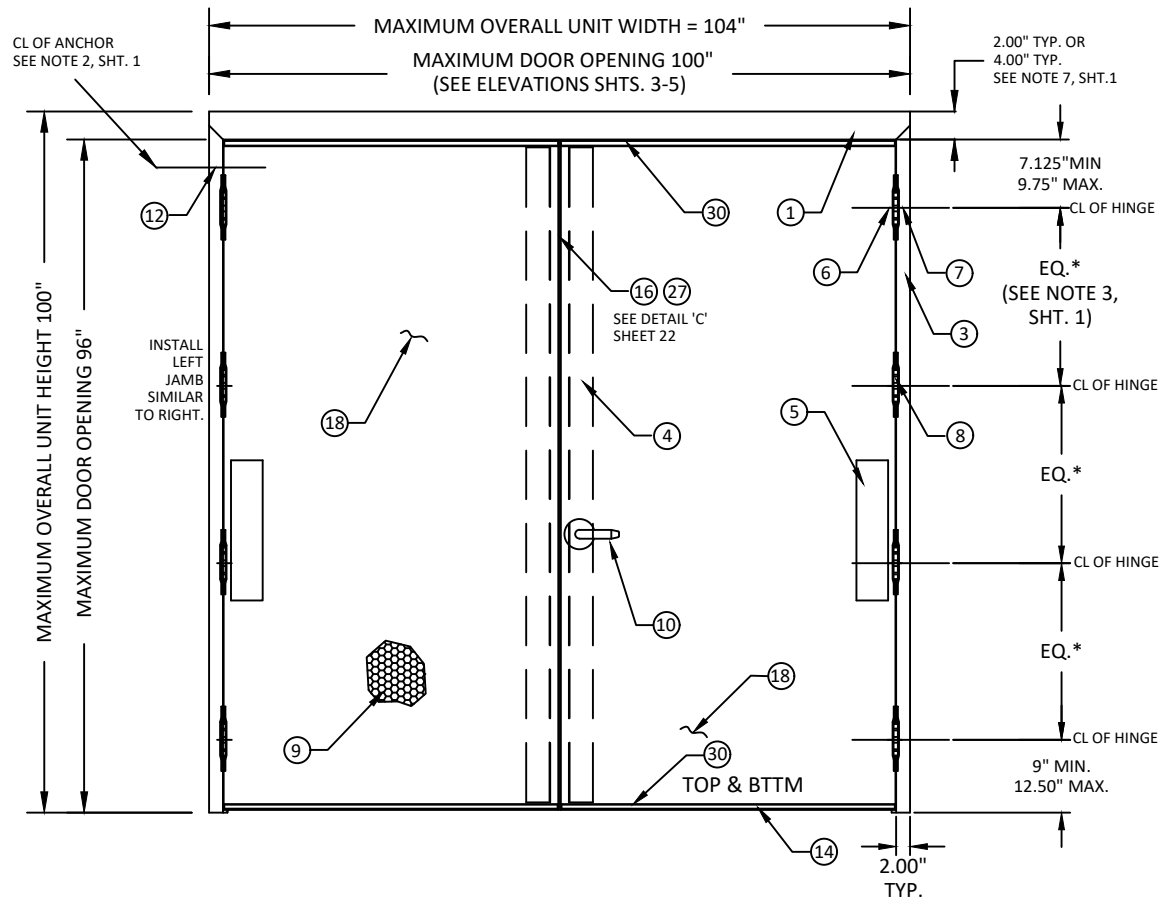
DWG. #: IRFD07

SHEET:

25

OF 34

OUTSWING DOOR  
(EXTERIOR VIEW)  
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE



AVAILABLE DOOR PANEL CONFIGURATIONS

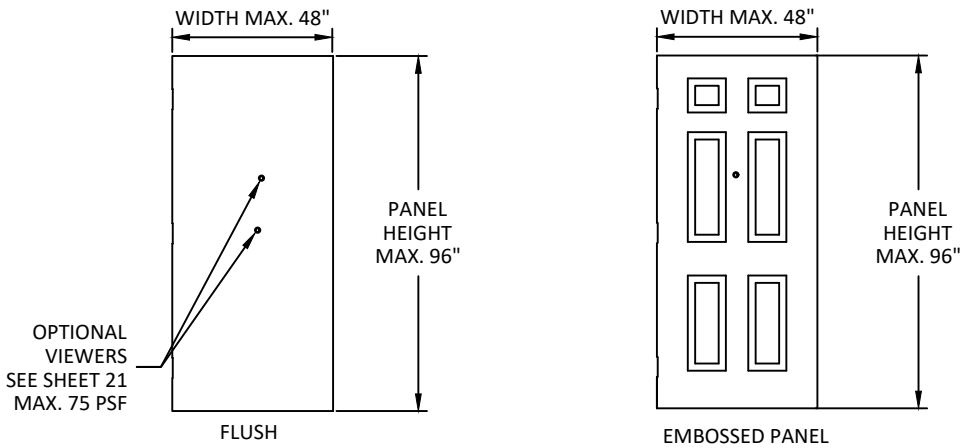


TABLE 9: (FOR OPTION 1 SEE TABLE 2 SHEET 6)

| ITEM | QUANTITY        | DESCRIPTION                                                 | MATERIAL                 | SIZE                                           |
|------|-----------------|-------------------------------------------------------------|--------------------------|------------------------------------------------|
| 1    | 1               | HEAD, SEE SHT. 28                                           | .053" MIN. STL           | MAX. 100"                                      |
| 2    | 1               | 2A) VON DUPRIN HH9954 HARDWARE MULLION                      | .312" A500 STL           | MAX. 96" HEIGHT                                |
|      |                 | 2B) VON DUPRIN 9964 OR KR9964 HARDWARE MULLION              | .118" A500 STL           |                                                |
| 3    | 2               | HINGE JAMB, SEE SHT. 28                                     | .053" MIN. STL           | MAX. 100" HEIGHT                               |
| 4    | 2               | LOCK SIDE REINFORCEMENT CHANNEL                             | .093" MIN. STL           | 3.5" X 93.44" MAX.                             |
| 5    | AS NEEDED       | HINGE SIDE PANIC REINFORCEMENT                              | .067" MIN. STL           | MAX. 20"                                       |
| 6    | NOTE 3, SHT. 1  | HINGE REINFORCEMENT DOOR                                    | .167" MIN. STL           | 1.23" X 9.19" MIN.                             |
| 6A   | NOTE 3, SHT.1   | HINGE REINFORCEMENT DOOR                                    | .053" MIN. STL.          | 1.67" X FULL HEIGHT - END CHANNELS             |
| 6B   | NOTE 3, SHT. 1  | HINGE REINFORCEMENT DOOR                                    | .123" MIN. STL           | 1.375" X 9.19" MIN.                            |
| 7    | NOTE 3, SHT. 1  | HINGE REINFORCEMENT FRAME                                   | .167" MIN. STL           | 1.5" X 9.19" MIN.                              |
| 8    | NOTE 3, SHT. 1  | 4.5" MIN. BUTT HINGES (SEE SHT. 21)                         | .134 MIN.                | 8X #12-24 MS PER HINGE                         |
|      |                 | OPTIONAL CONTINUOUS HINGE (SEE SHEET 21)                    | .075" MIN.STL/.110 ALUM. | MAX. 95"                                       |
| 9    | 2               | CORE MATERIAL:                                              |                          |                                                |
|      |                 | D) HONEYCOMB                                                | C) STEEL STIFFENED       | SEE SHT. 9                                     |
|      |                 | A&F) POLYSTYRENE    B&F) POLYURETHANE/POLYISOCYANURATE      |                          |                                                |
|      |                 | E) MINERAL BOARD TEMPERATURE RISE CORE                      |                          |                                                |
| 10   | 2               | LOCKING HARDWARE - LOCKSET                                  | SEE SHTS. 2, 23-25       |                                                |
| 11   | 1               | THRESHOLD SILL W/BUMPER GASKET                              |                          | 5.0" X 0.5" X 96" MAX                          |
|      |                 | 11A) 566 ZERO WATER RATED, SHTS. 17 & 18, NON WATER SHT. 19 | .125" ALUM. 6063 T5      |                                                |
|      |                 | 11B) 950A NGP WATER RATED SHT. 16, NON WATER SHT. 20        | .078" ALUM. 6063 T5      |                                                |
|      |                 | 11C) 65 ZERO NON WATER RATED SEE SHT. 19                    | 0.125" ALUM. 6063 T5     | 6.0" X 0.5" X 96" MAX.                         |
|      |                 | 11D) 568 ZERO NON WATER RATED SEE SHT. 19                   | 0.125" ALUM. 6063 T5     |                                                |
| 12   | NOTE 2, SHT. 1  | JAMB ANCHOR                                                 | SEE SHTS. 11-15 & 29-33  | -                                              |
| 13   | SEE SHTS. 17-20 | 13A) PS074 DOOR SEAL                                        | TPE                      | VARIES                                         |
|      |                 | 13B) 188S, 13C) 117S, 13D)8144S, 13E)8150S, DOOR SEAL ZERO  | SILICONE                 | -                                              |
| 14   | 2               | FAS-SEAL DOOR SWEEP. SEE SHTS. 17-20                        | TPE                      | MAX. 48"                                       |
| 15   | 4               | END CHANNEL (14 GAGE - INVERTED)                            | .067" MIN. STL           | .69" X 1.66" X 48" MAX.                        |
| 16   | 1               | 16A) 328 SPLIT ASTRAGAL BY ZERO INT'L                       | SEE SHTS. 17 & 19        | -                                              |
|      |                 | 16B) 137 SPLIT ASTRAGAL BY NGP                              | SEE SHT. 20              |                                                |
| 17   | AS NEEDED       | CAULK - BUTYL RUBBER OR SILICONE                            | SEE SHTS. 17-20          | -                                              |
| 18   | 2               | DOOR SLAB (16 OR 14 GA)                                     | SEE SHT. 28              | 4' BY 8' MAX                                   |
| 19   | 1               | 19A) 8150S DOOR SEAL BY ZERO INT'L SEE SHTS. 17             | TPE                      | MAX 24'                                        |
|      |                 | 19B) 188S DOOR SEAL BY ZERO INT'L SEE SHTS. 18              |                          |                                                |
| 20   | 4               | 202N DOOR SWEEP BY NGP, SHT. 18                             | TPE                      | MAC 48"                                        |
| 21   | 1               | 21A) 139 DOOR SWEEP BY ZERO INT'L                           | SEE SHTS. 17 & 18        | MAX 96" FOR VERTICAL<br>MAX 48" FOR HORIZONTAL |
|      |                 | 21B) 328 DOOR SWEEP BY ZERO INT'L                           |                          |                                                |
|      |                 | 21C) 200N DOOR SWEEP BY NGP                                 |                          |                                                |
| 22   | 2               | 22A) 475 ADJUSTABLE SEAL BY ZERO INT'L SEE SHT. 18          | TPE                      | MAX 48"                                        |
|      |                 | 22B) 170N ADJUSTABLE SEAL BY NGP SEE SHT. 18                |                          |                                                |
| 23   | 1               | 23A) 142 RAIN DRIP BY ZERO INT'L                            | -                        | MAX. 104"                                      |
|      | 2               | 23B) 11 RAIN DRIP BY ZERO INT'L                             | SEE SHTS. 17 & 18        | MAX. 48"                                       |
|      |                 | 23C) 16A RAIN DRIP BY NGP                                   |                          |                                                |
| 24   | -               | -                                                           | -                        | -                                              |
| 25   | 2               | IVES SB360 SURFACE BOLT                                     | STEEL                    | 12" MIN. - 24" MAX. LENGTH                     |
| 26   | 1               | ASA STRIKE                                                  | -                        | -                                              |
| 27   | 1               | Z-ASTRAGAL REQUIRED FOR CONFIGS. 1, 1A, 2, 3 & 4            | .067" MIN. STL           | MAX. 95.5"                                     |
| 28   | 1               | HOLLOW METAL MULLION (SINGLE OR DOUBLE RABBET)              | SEE SHT. 10              | MAX. 96"                                       |
| 29   | 1               | IVES 698/U698 DOOR VIEWER                                   | BRASS                    | -                                              |
| 30   | 4               | END CHANNEL (16 GAUGE-INVERTED OR FLUSH)                    | .053" MIN. STL           | .62" X 1.677"                                  |
| 31   | 4               | HOLLOW METAL MULLION                                        | SEE SHT. 22              | MAX. 96"                                       |
| 32   | 4               | EDGE CHANNEL (16 GAUGE)                                     | .053" MIN. STL           | .62" X 1.677"                                  |



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CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

REPUBLIC DOORS: OPENINGS &BOM

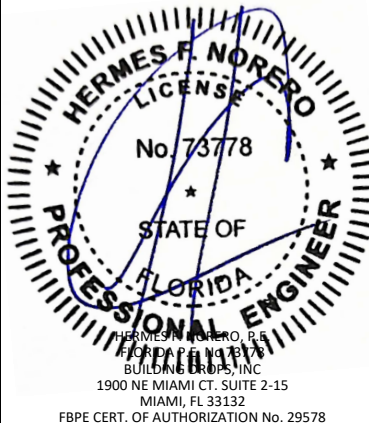
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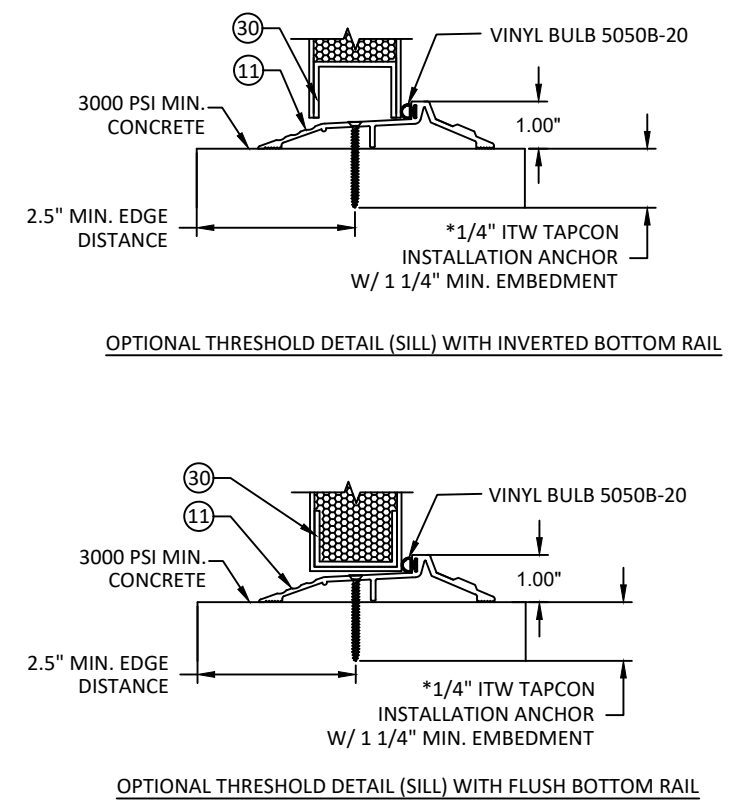
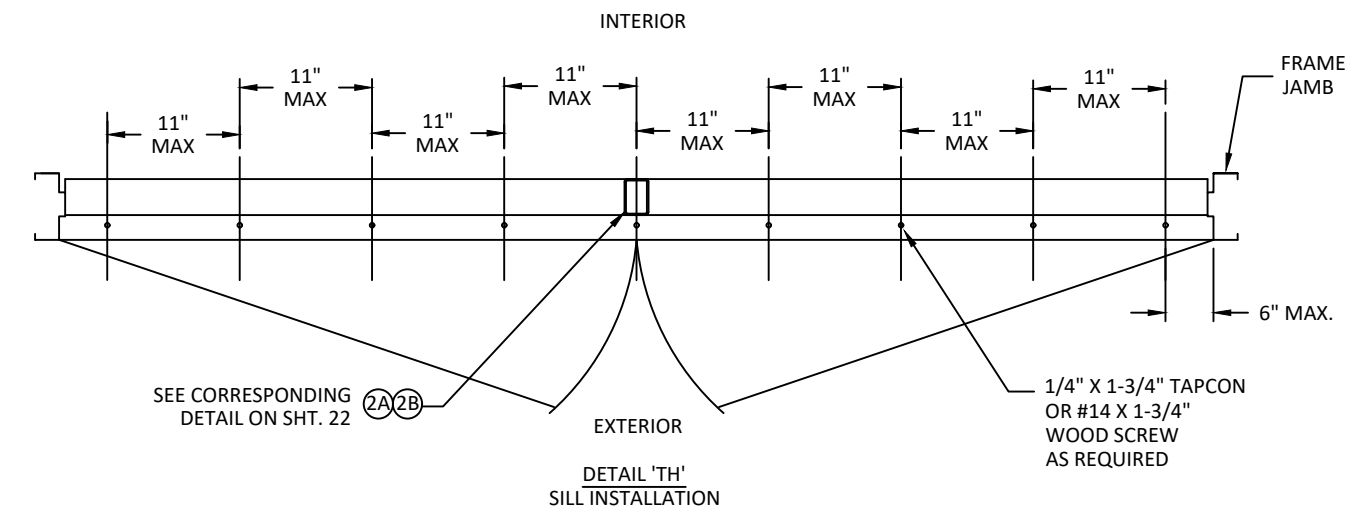
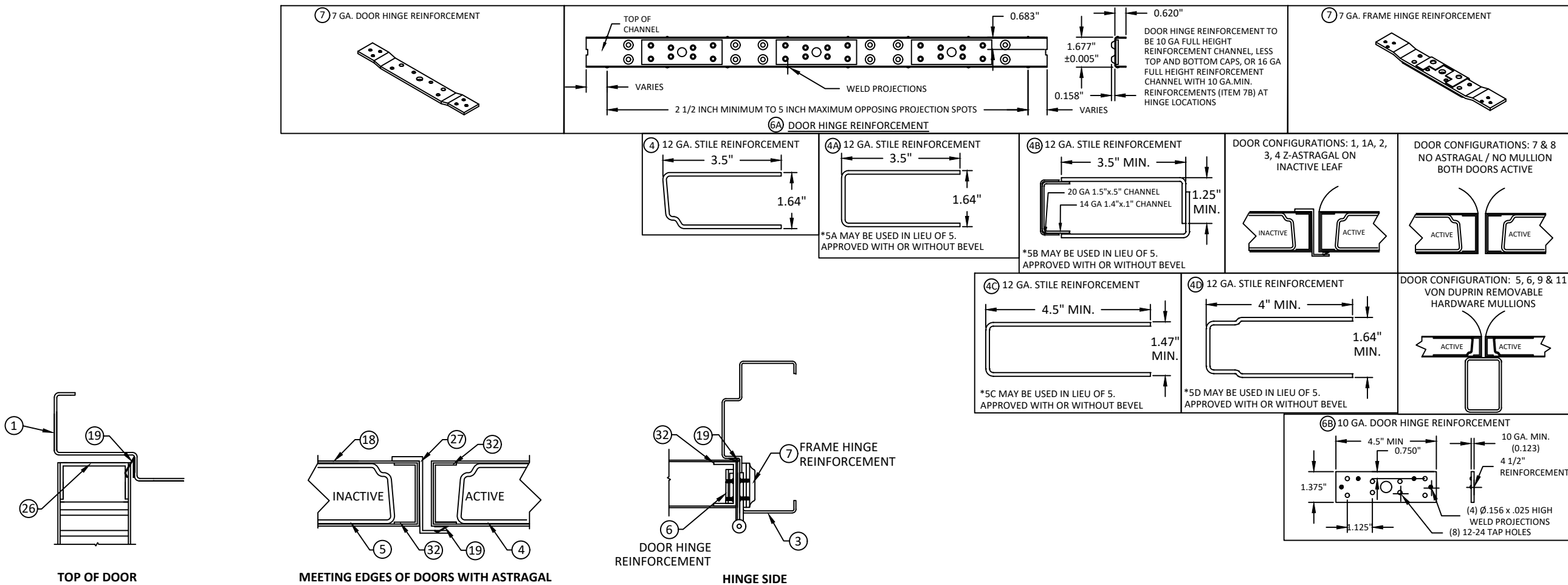
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| SCALE: NTS     |              |
| DWG. #: IRFD07 |              |
| SHEET:         |              |

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\*NOTE: 803V THRESHOLD MAY BE INSTALLED WITH #12 WOOD SCREW TYPE INSTALLATION ANCHORS WHEN INTO 2X WOOD BUCK SUBSTRATES (MIN. SG= 0.55) WITH MINIMUM 1-1/2" EMBEDMENT AND MINIMUM 3/4" EDGE DISTANCE.

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CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH COMMERCIAL STEEL DOOR (HVHZ)(IMPACT)  
REPUBLIC DOORS: SILL & REINFORCEMENT DETAILS

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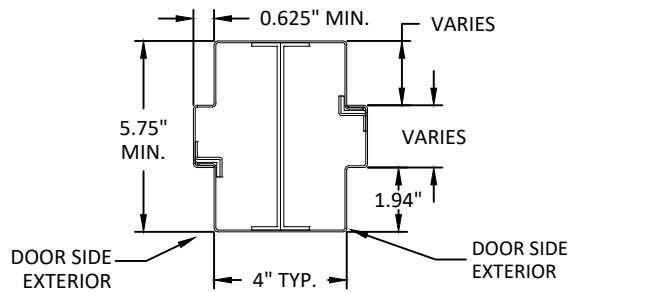
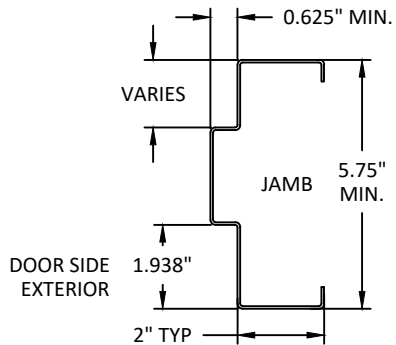
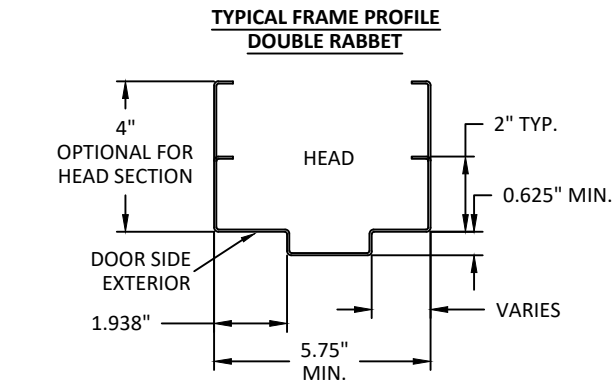
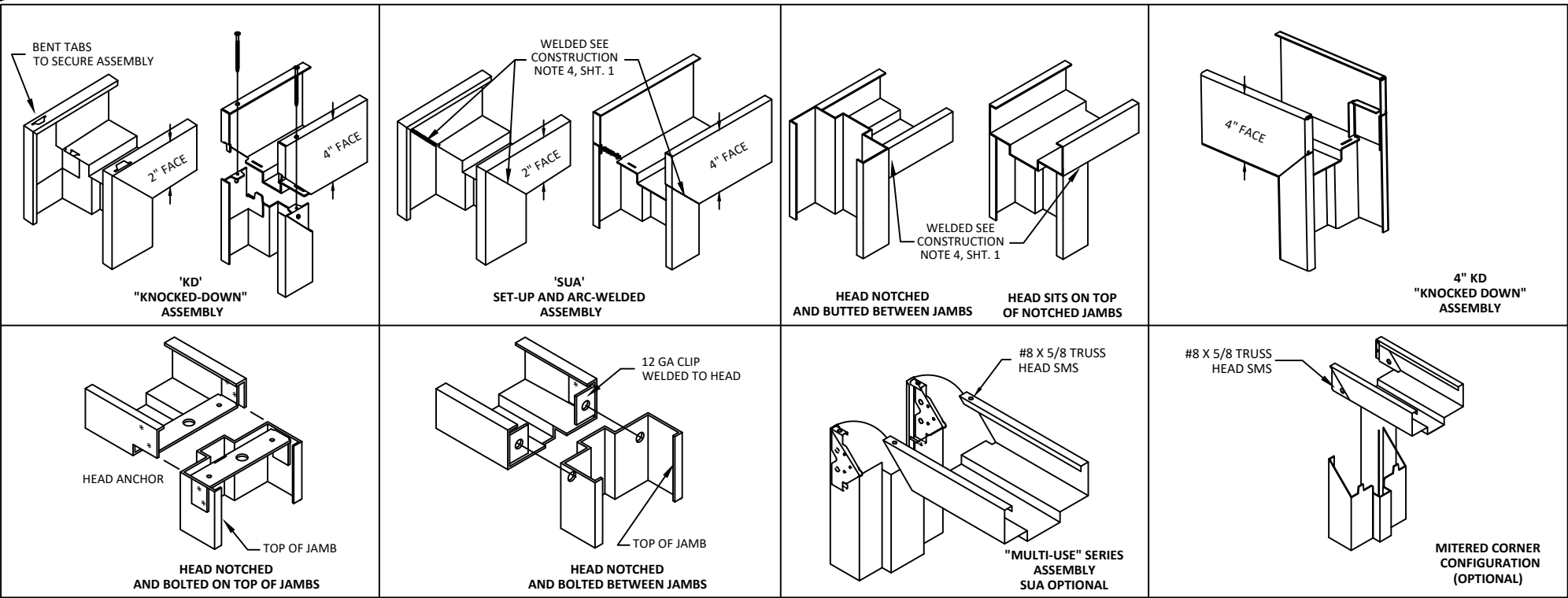
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SCALE: NTS

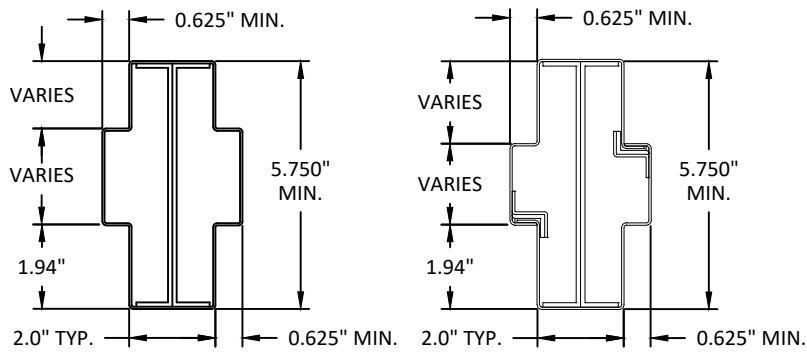
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28 HOLLOW METAL MULLION  
DOUBLE RABBIT

APPLICABLE TO ELEVATION  
10 ONLY (SEE SHEET 5)



28 CLOSED SECTION FRAME  
.053" MIN. THK

TABLE 10: AVAILABLE REPUBLIC DOOR CONFIGURATIONS

| REPUBLIC<br>DOOR<br>SERIES | DOOR CORE<br>MATERIAL<br>PER SHT. 9                                                                   | MAXIMUM OPENING SIZE |        | SKIN MATERIAL |                      |
|----------------------------|-------------------------------------------------------------------------------------------------------|----------------------|--------|---------------|----------------------|
|                            |                                                                                                       | WIDTH                | HEIGHT | DESCR.        | GA./MIN. THK         |
| DL                         | HONEYCOMB<br>POLYSTYRENE<br>POLYURETHANE<br>(POLYISOCYANURATE)<br>TEMPERATURE RISE<br>STEEL STIFFENED | 8'-0"                | 8'-0"  | CRS.<br>GALV. | 16/.053"             |
| DE                         |                                                                                                       | 8'-0"                | 8'-0"  | CRS.<br>GALV. | 16/.053"<br>14/.067" |

TABLE 11: AVAILABLE REPUBLIC FRAME CONFIGURATIONS

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

TABLE 12: STEEL MECHANICAL PROPERTIES

| MATERIAL | ASTM REF. | YIELD<br>KSI | TENSILE<br>KSI |
|----------|-----------|--------------|----------------|
| CRS      | A1008     | MIN. 30.1    | MIN. 44.7      |
| HRS      | A1011     |              |                |
| GALV.    | A924/A653 |              |                |



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TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

REPUBLIC DOORS: FRAME DETAILS  
& CORNER CONSTRUCTION

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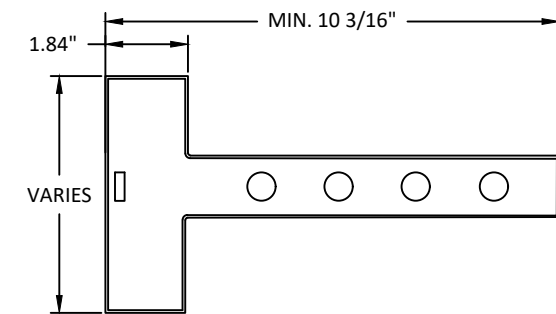
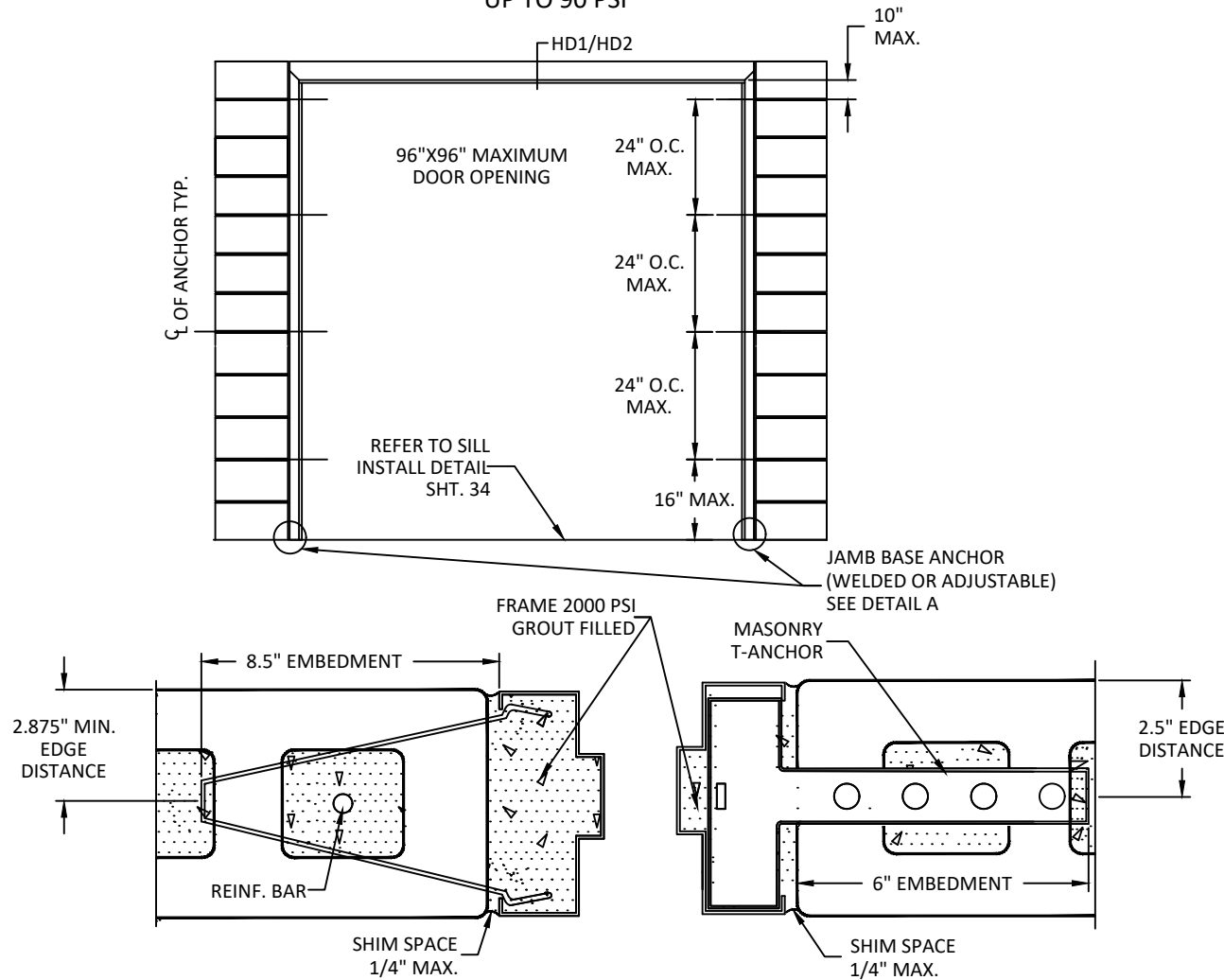
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28

1A

WIRE OR T MASONRY ANCHOR  
INTO GROUT FILLED FRAME  
AND BLOCK WALL  
UP TO 90 PSF



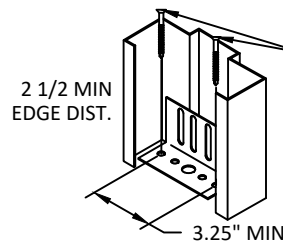
NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.  
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.  
3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.  
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.  
5.THE INSTALLATION DETAILS DESCRIBED HEREIN MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

MASONRY BLOCK WALLS  
CMU (C-90) 2000 PSI  
GROUT FILLED

MASONRY  
T-ANCHOR

WIRE ANCHOR Ø3/16"  
BRIGHT BASIC WIRE 5.19"  
X 9.56"  
WIRE MASONRY ANCHOR  
Fultim MIN.=58 KSI Fy  
MIN.=36 KSI

DETAIL A  
JAMB BASE ANCHOR  
(INTO CONCRETE)

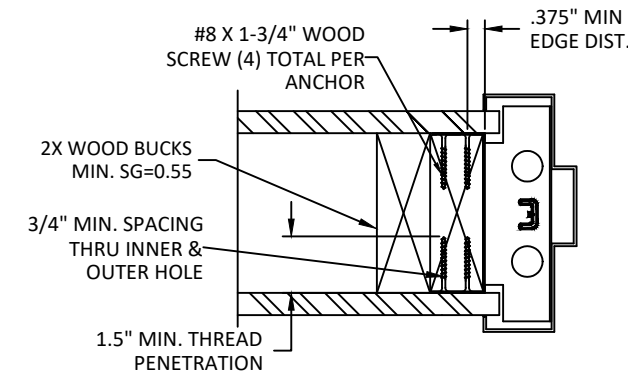
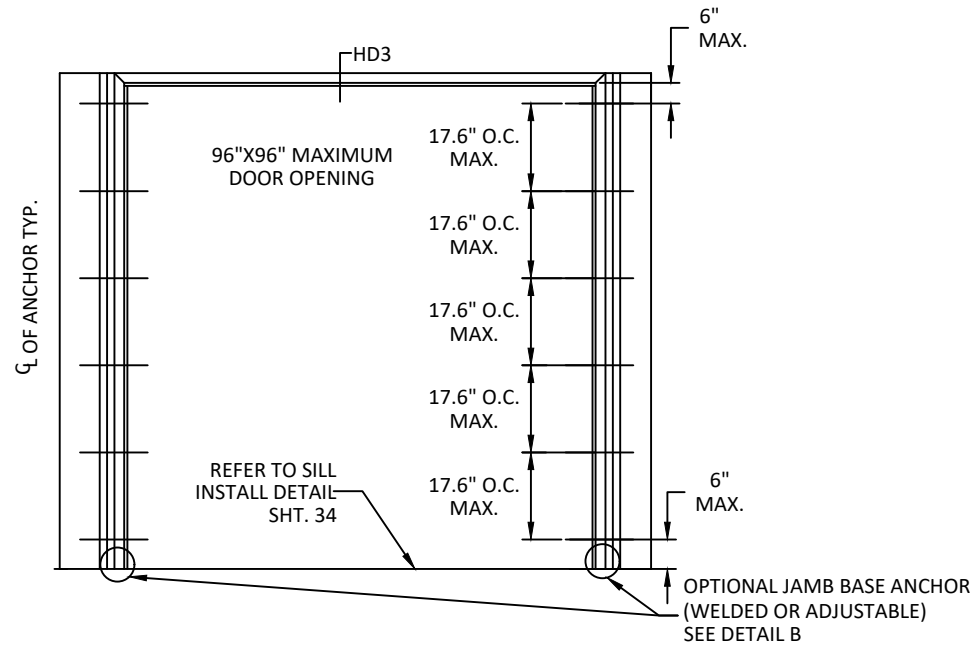


(3 KSI MIN.)  
Ø0.375" WITH 2"  
MIN. EMBEDMENT  
DEWALT/POWERS POWER  
BOLT, DEWALT/POWERS  
LOK BOLT AS.  
HILTI HLC-FPH SLEEVE  
ANCHOR, SIMPSON STRONG  
TIE SLEEVE-ALL OR 3/8" LAG  
BOLT INTO (2) 2X WOOD  
SILL (SG=0.55)

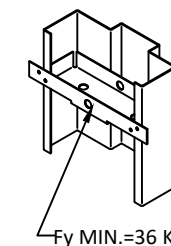
2A

WOOD STUD ANCHOR  
UP TO 90 PSF

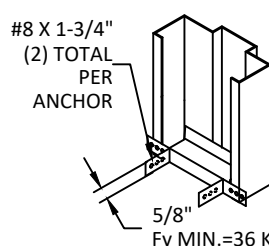
SEE PAGE 11 FOR  
OPTION 1 ANCHOR DETAILS



WOOD STUD OR UNIVERSAL ANCHOR  
(LOCK-IN OR WELD-IN)



DETAIL B  
JAMB BASE ANCHOR  
(WELDED OR ADJUSTABLE)



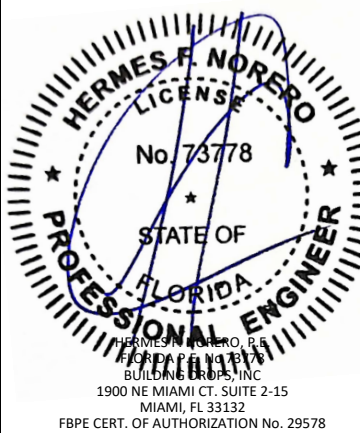
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COMMERCIAL STEEL DOOR  
(HYHZ)(IMPACT)  
REPUBLIC DOORS: ANCHORS - WIRE OR T  
MASONRY ANCHOR &  
WOOD STUD

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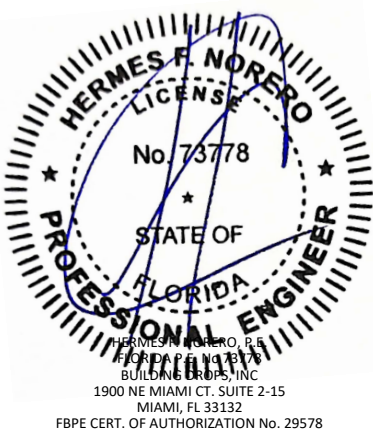
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(HVHZ)(IMPACT)  
REPUBLIC DOORS: ANCHORS -  
STEEL STUD & EMA INTO  
CONCRETE WALL OR CMU

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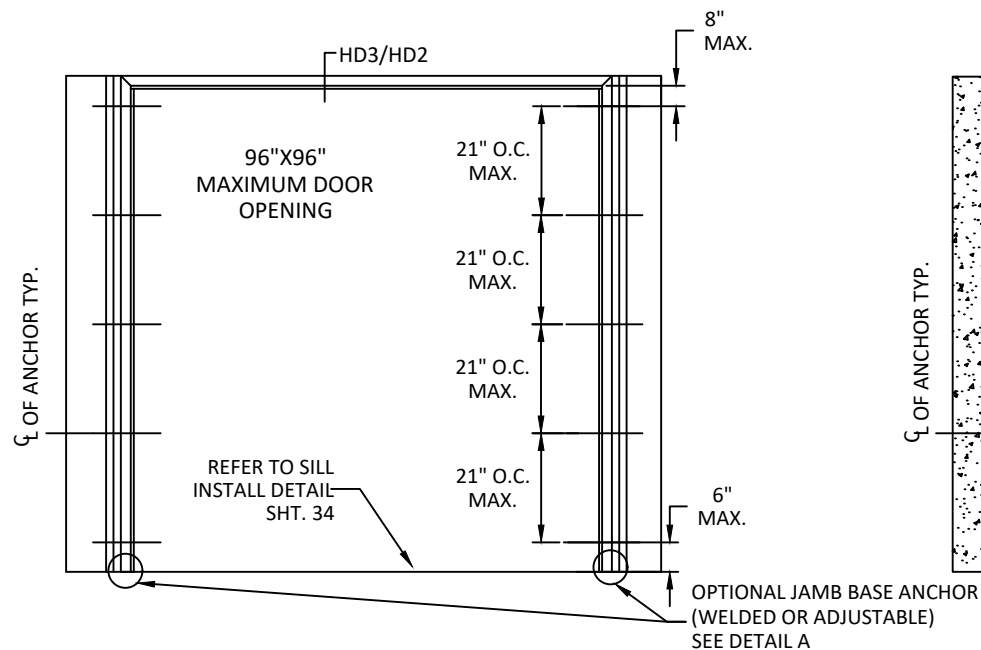
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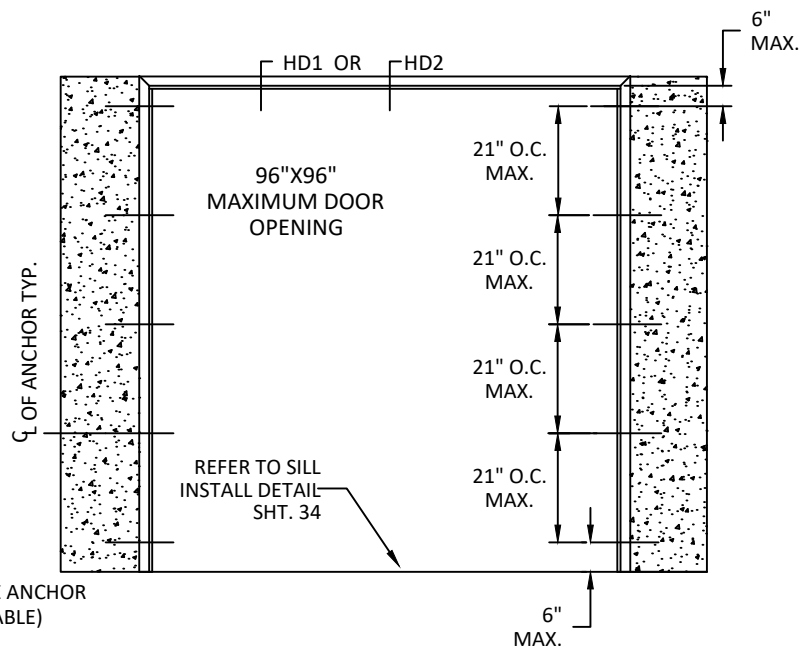
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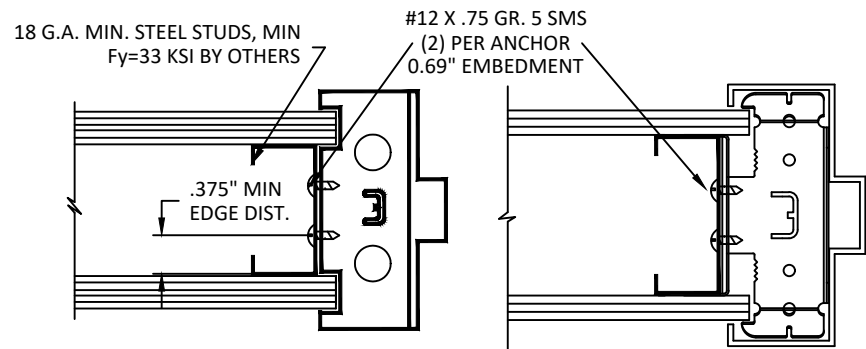
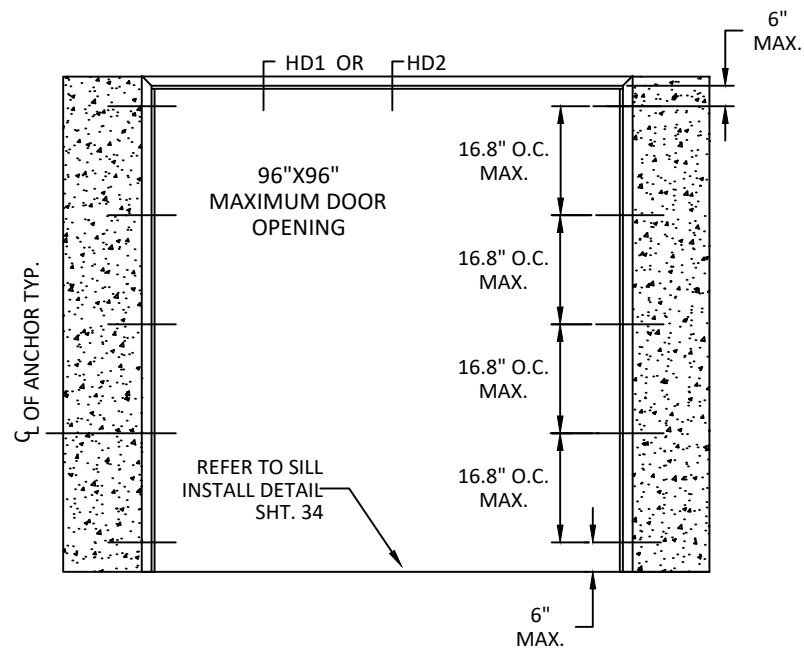
### 3A STEEL STUD ANCHOR UP TO 90 PSF



### 4 PREPARED OPENING ANCHOR (POA) INTO CONCRETE WALL OR CMU UP TO 75 PSF

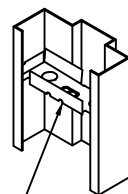


### 4A PREPARED OPENING ANCHOR (POA) INTO CONCRETE WALL OR CMU UP TO 90 PSF

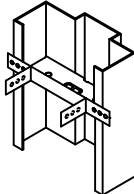


STEEL STUD ANCHOR  
WELD-IN OR LOCK-IN

UNIVERSAL ANCHOR  
WELD-IN OR LOCK-IN



\*STEEL STUD WALLS  
SEE NOTE 11, SHT. 1

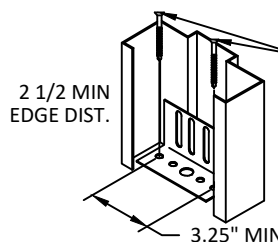


Fy MIN.=36 KSI

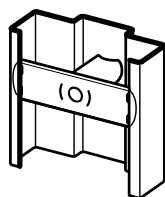
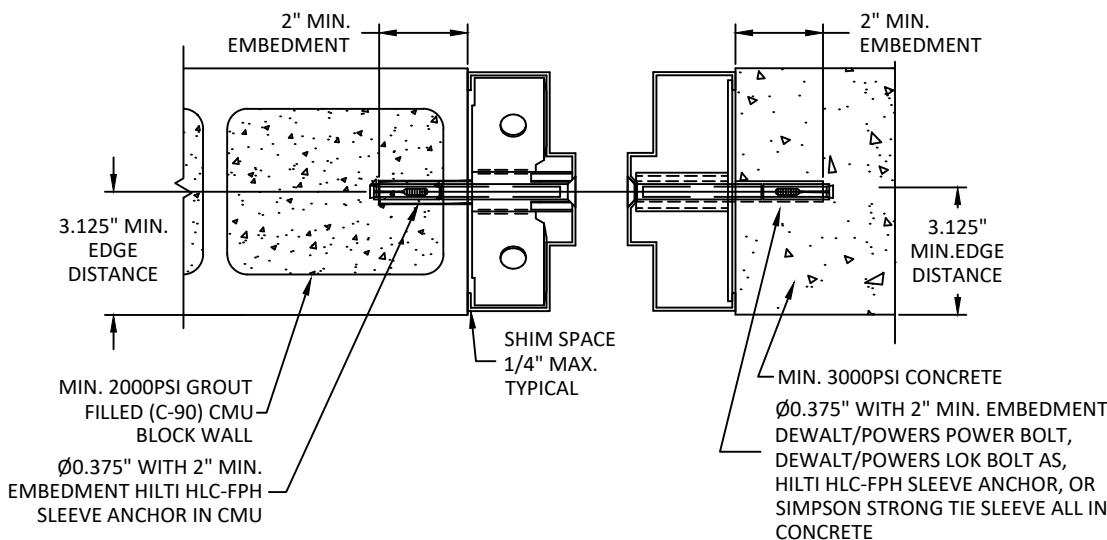
#### NOTES:

- (\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
- NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
- SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
- INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
- THE INSTALLATION DETAILS DESCRIBED HEREIN MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

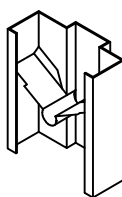
#### DETAIL A JAMB BASE ANCHOR (INTO CONCRETE)



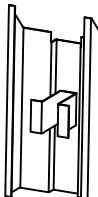
(3 KSI MIN.)  
Ø0.375" WITH 2"  
MIN. EMBEDMENT  
DEWALT/POWERS POWER  
BOLT, DEWALT/POWERS  
LOK BOLT AS,  
HILTI HLC-FPH SLEEVE  
ANCHOR, SIMPSON STRONG  
TIE SLEEVE-ALL OR 3/8" LAG  
BOLT INTO (2) 2X WOOD  
SILL (SG=0.55)



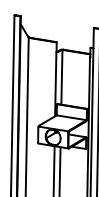
TUBE/CHANNEL &  
PLATE BOLT-IN



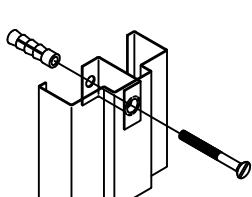
LOCK-IN



POA ANCHOR



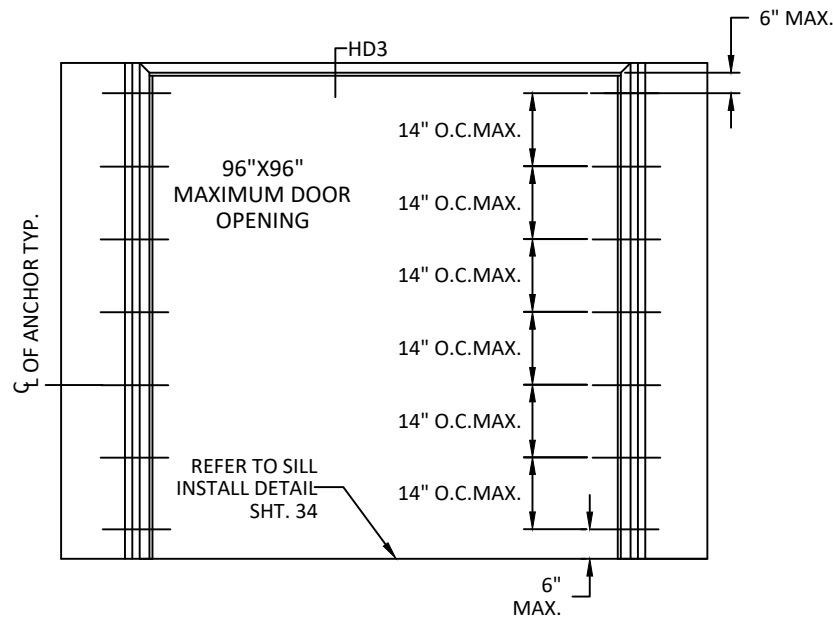
WELD-IN



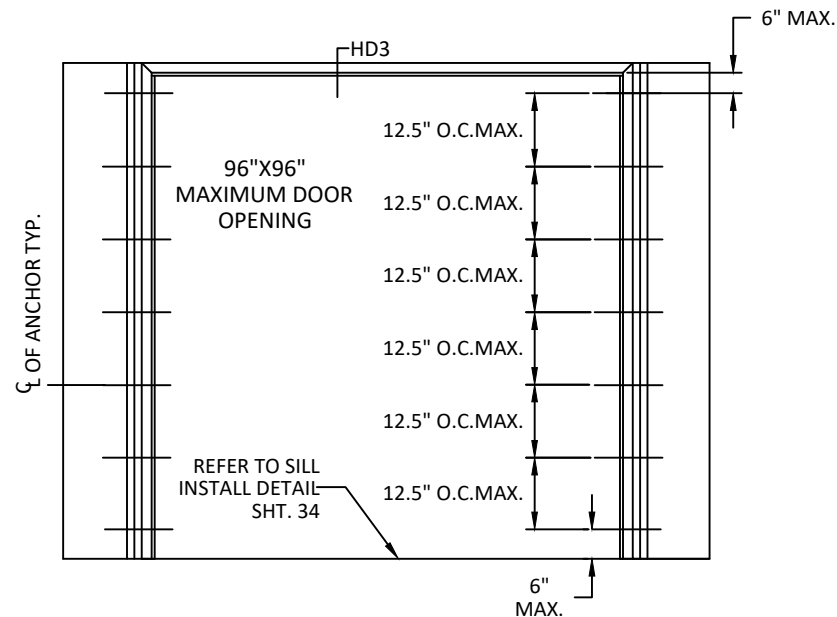
POA ANCHOR

TUBE & PLATE  
WELD-IN EMA  
ANCHOR

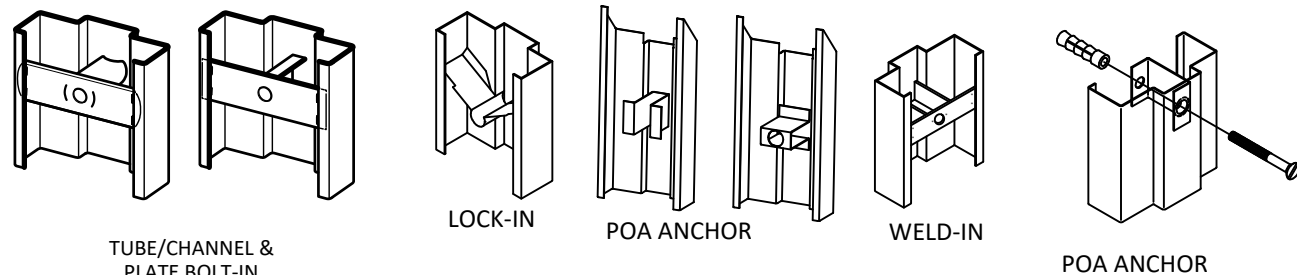
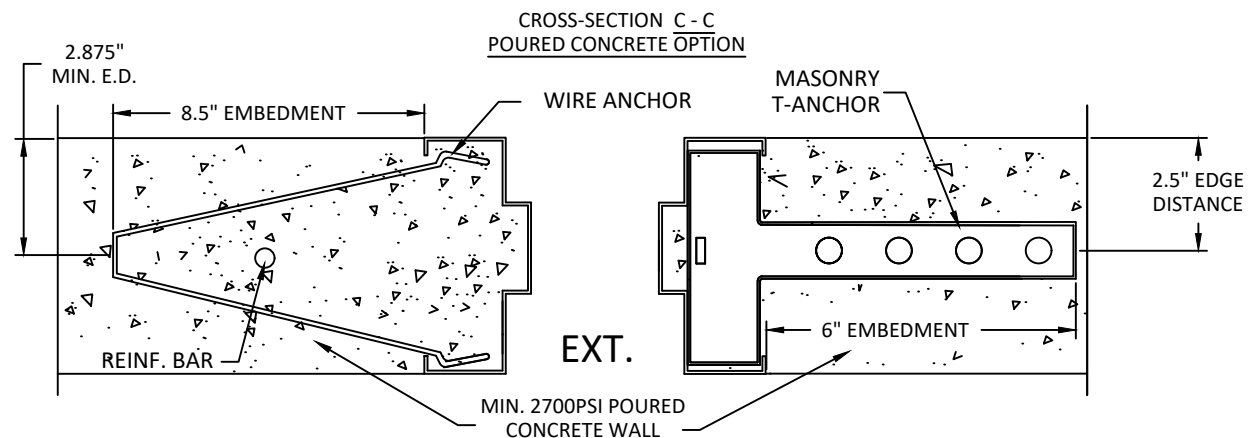
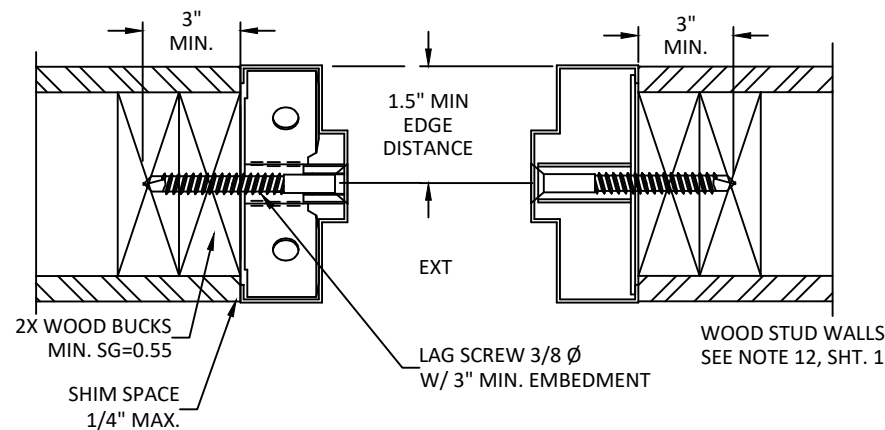
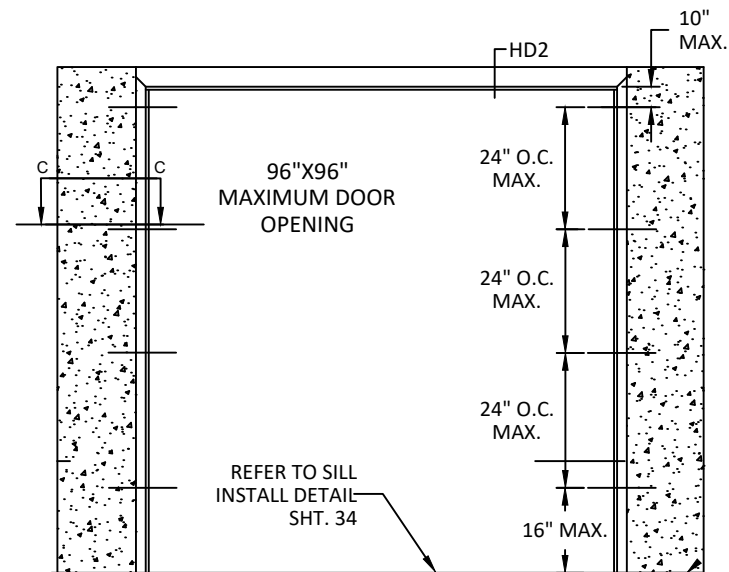
**5** PREPARED OPENING ANCHOR (POA) WITH LAG  
BOLT INTO WOOD STUD WALL UP TO 75 PSF



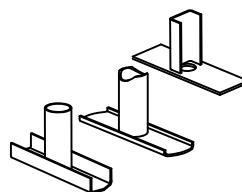
**5A** PREPARED OPENING ANCHOR (POA) WITH LAG  
BOLT INTO WOOD STUD WALL UP TO 90 PSF



**6** POURED CONCRETE  
TILT UP WALL  
UP TO 90 PSF

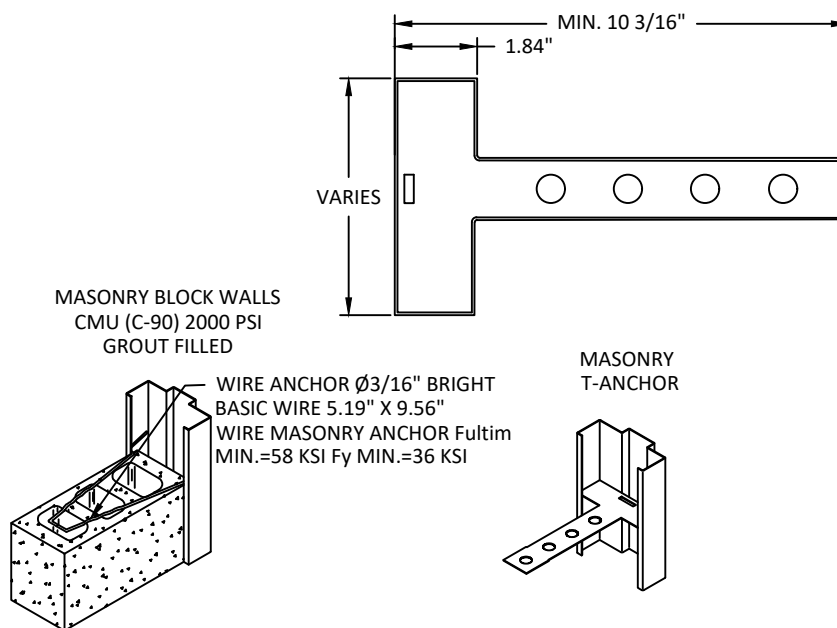


**NOTES:**  
1. (\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.  
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.  
3. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.  
4. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.  
5. THE INSTALLATION DETAILS DESCRIBED HEREIN MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.



TUBE & PLATE  
WELD-IN EMA  
ANCHOR

**NOTE:**  
1. 3/8" LAG SCREWS TO BE MIN. SAE GRADE 2 OR EQUIVALENT.

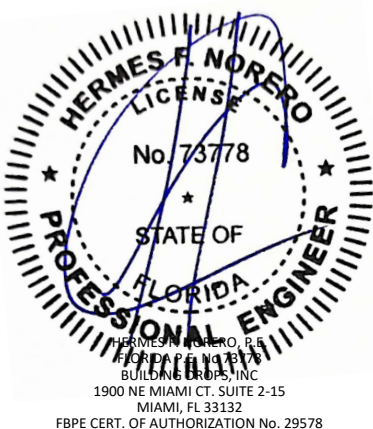


**TITLE:** OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)  
REPUBLIC DOORS: ANCHORS -  
EMA W/ LAG BOLT IN WOOD STUD WALL  
& POURED CONCRETE TILT UP WALL

**PREPARED BY:** BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| HINGE UPDATE      | SM | 02.26.24 |
| MPP/ANCHOR UPDATE | SH | 06.14.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.09.25 |

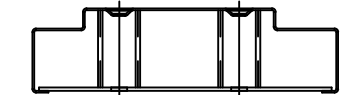
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



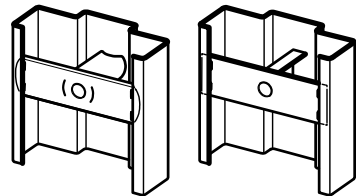
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| FL12400  |          |
| DATE:    | 04.13.22 |
| DWG. BY: | CPA      |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | IRFD07   |
| SHEET:   | 31       |

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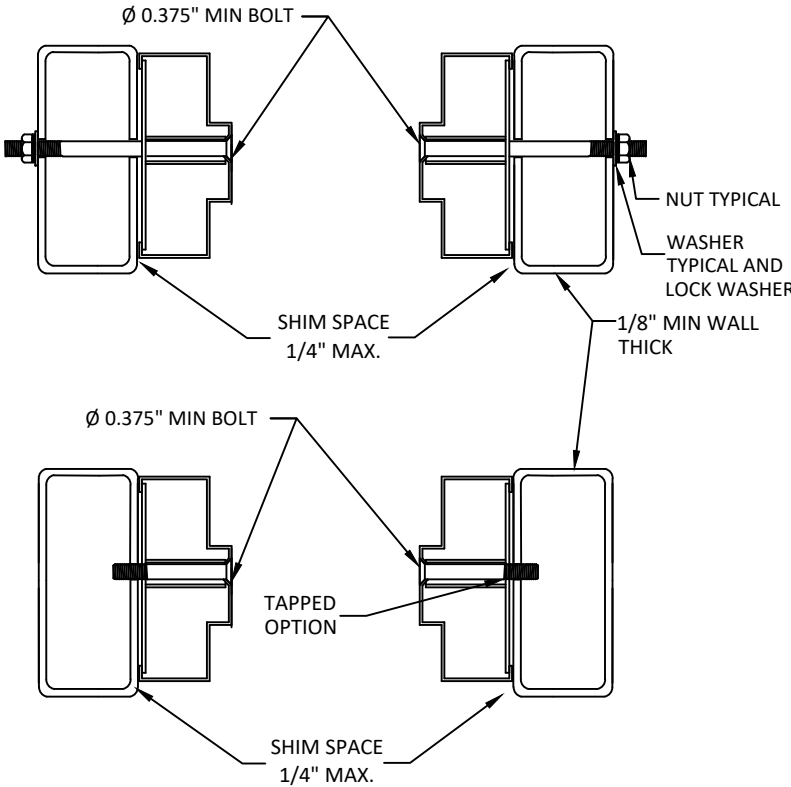
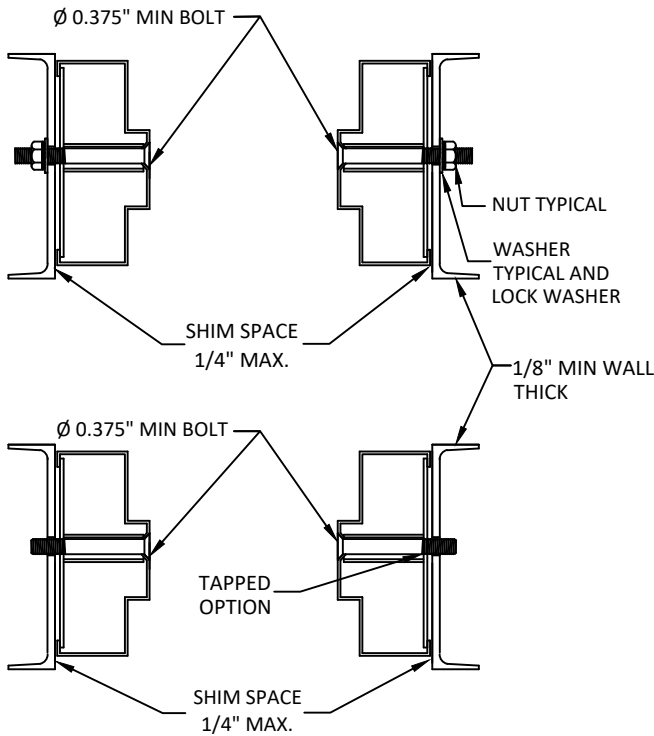
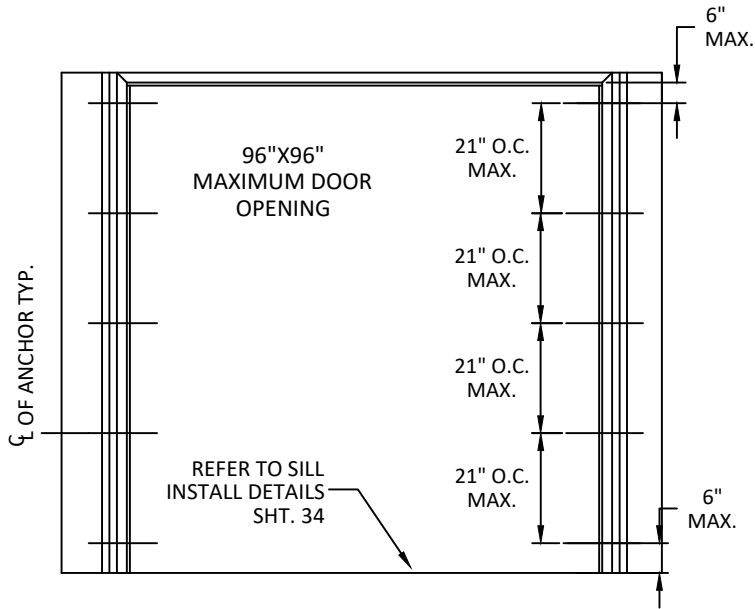
FRAMES BOLTED TO BUILDING STRUCTURE  
UP TO 90 PSF



9 1/4" JAMB DEPTH AND ABOVE  
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &  
PLATE BOLT-IN



NOTE:  
1. 3/8" BOLTS AND NUTS TO BE MIN. SAE GRADE 2 OR  
EQUIVALENT.

NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD  
WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR  
ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF,  
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2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY  
MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.  
3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR  
SILICONE CAULK.  
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL  
LENGTH OF SILL.  
5.THE INSTALLATION DETAILS DESCRIBED HEREIN MAY NOT REFLECT ACTUAL  
CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED  
HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC  
DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)  
REPUBLIC DOORS: ANCHORS - FRAMES  
BOLTED TO BUILDING STRUCTURE  
PREPARED BY: BUILDING DROPS, INC.  
1900 NE MIAMI CT. SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

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| MISC UPDATE       | DI | 12.09.25 |

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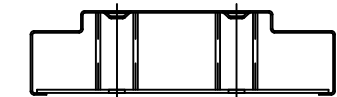


FL12400  
DATE: 04.13.22  
DWG. BY: CPA  
CHK. BY: HFN  
SCALE: NTS  
DWG. #: IRFD07  
SHEET:

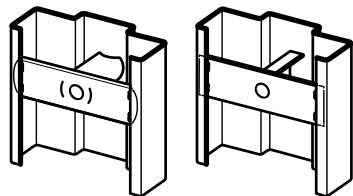
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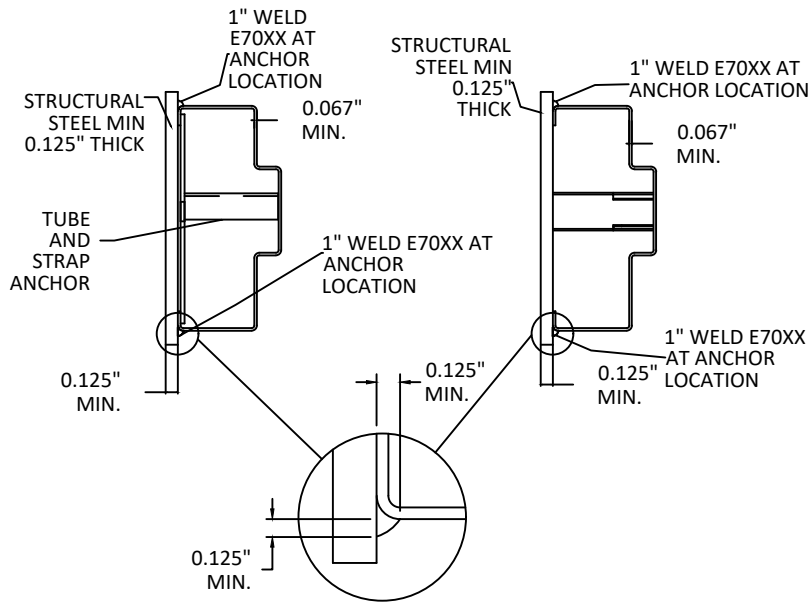
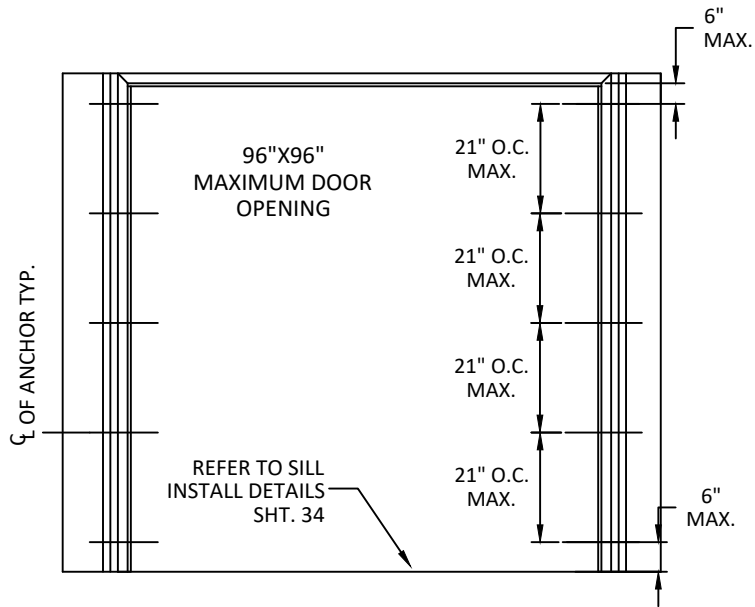
WELDED ANCHOR  
SHIM OR STEEL BUILDING STRUCTURE  
UP TO 90 PSF



9 1/4" JAMB DEPTH AND ABOVE  
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &  
PLATE BOLT-IN



NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.  
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ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)

REPUBLIC DOORS: ANCHORS - FRAMES  
WELDED TO STEEL STRUCTURE BUILDING

PREPARED BY:  
**BUILDING DROPS, INC.**  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
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HERMES F. NORERO, P.E.  
BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

FL12400

DATE: 04.13.22

|                 |                 |
|-----------------|-----------------|
| DWG. BY:<br>CPA | CHK. BY:<br>HFN |
|-----------------|-----------------|

SCALE: NTS

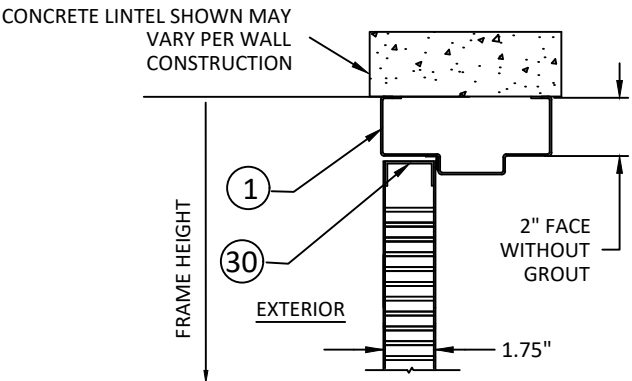
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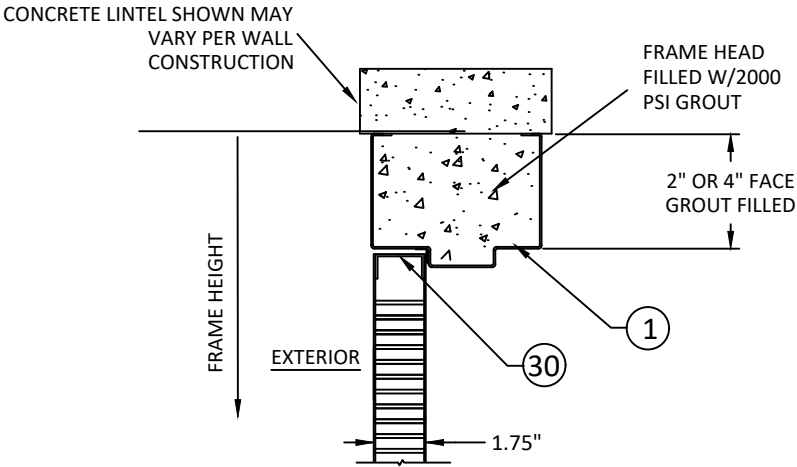
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OF 34

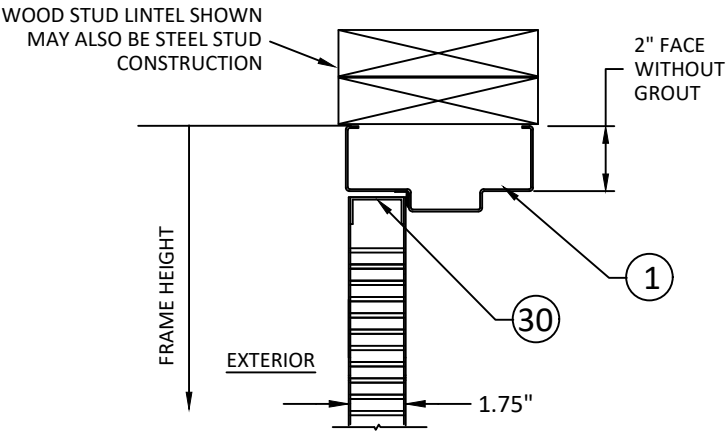
SEE PAGE 16 FOR OPTION 1  
DETAILS



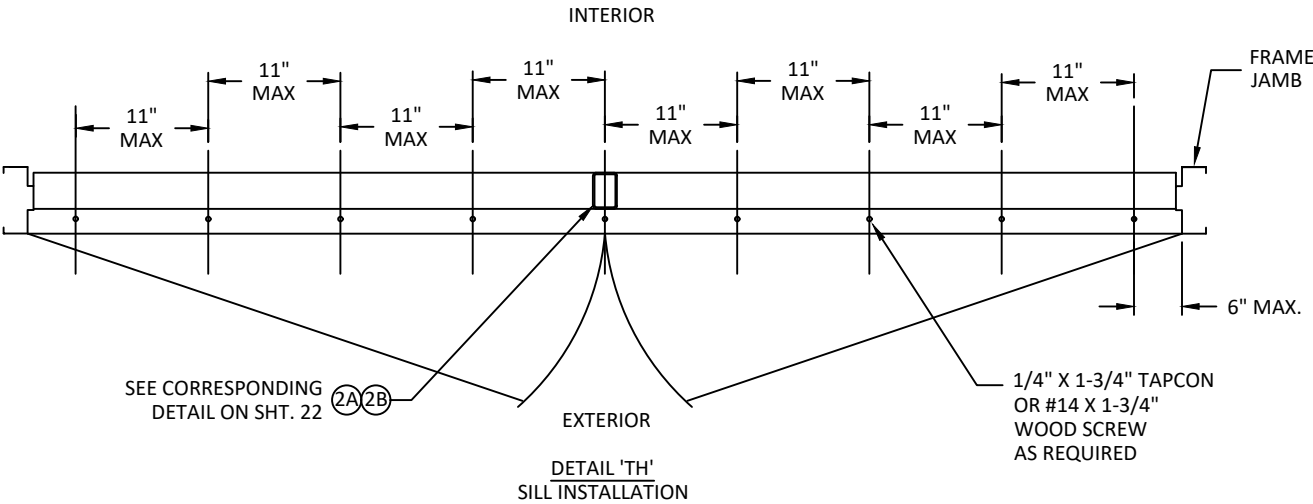
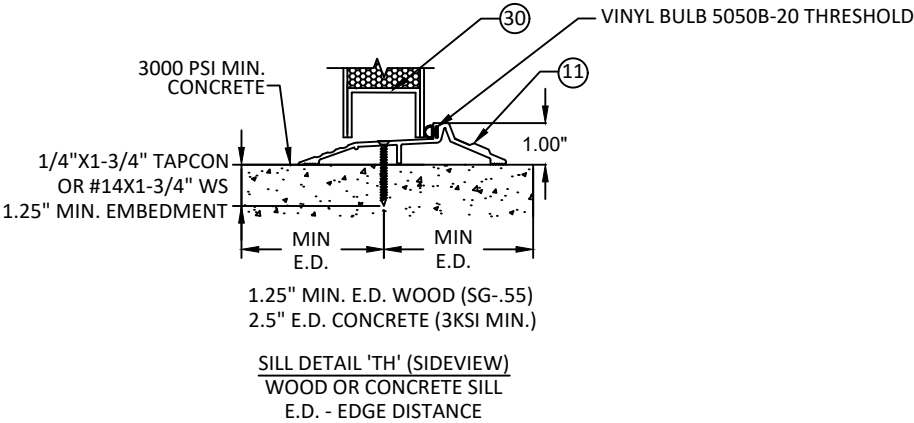
HD1 - FRAME HEAD SECTION



HD2 - FRAME HEAD SECTION



HD3 - FRAME HEAD SECTION



NOTES:  
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11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE FLUSH  
COMMERCIAL STEEL DOOR  
(HVHZ)(IMPACT)  
REPUBLIC DOORS: FRAME &  
HEAD DETAILS

PREPARED BY: BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
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FL12400

DATE: 04.13.22

DWG. BY: CPA  
CHK. BY: HFN

SCALE: NTS

DWG. #: IRFD07

SHEET:

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OF 34