

# ALLEGION - SCHLAGE LOCK COMPANY, LLC.

## LOUVERED OUTSWING/INSWING COMMERCIAL STEEL DOUBLE DOOR SYSTEMS (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

- 1. THESE PRODUCTS HAVE BEEN TESTED TO ASTM PROTOCOLS E330-14 AND COMPLY WITH THE CURRENT FLORIDA BUILDING CODE.
- 2. THE DOORS ARE NON-IMPACT RATED.

NOTES:

- 1. ALL DIMENSIONS SHOWN MAX. AND TYP. FOR ALL DOOR/FRAME MODELS, UNLESS OTHER INDICATED.
- 2. ANCHOR REQUIREMENTS: SEE SHEETS 11-15 & 25-29 FOR APPROVED ANCHORS AND INSTALLATION.
- 3. HINGE REQUIREMENTS: 4.5" STD WT. MIN. (MIN. 3 HINGES) BUTTS OR CONTINUOUS HINGE FOR DOOR OPENING UP TO 7'0" HIGH - MIN (3) 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. NOT TO EXCEED 35.5" FOR THREE HINGES
- 4. APPROVED CONTINUOUS HINGE MODELS: SEE SHEET 19
- 5. SEE SHEETS 2, 3, 4, 9, 10, 22 AND 24 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
- 6. HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
- 7. HEAD SECTION CAN HAVE 4" FACE DIMENSIONS WHEN IT'S GROUTED WITH CONCRETE.
- 8. APPLY CAULK AS NEEDED
- 9. WHEN WATER INFILTRATION RATING IS NOT REQUIRED, INSTALL GASKETING PER SHEET 17 & 18.
- 10. MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED IN MIN. 2700PSI POURED CONCRETE TILT UP WALLS.
- 11. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN
- 12. 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 NOT PART OF THIS APPROVAL, CONSULT MANUFACTURER FOR APPROVED CONFIGURATIONS.
- 13. 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.
- 14. INSTALL REINFORCEMENT CHANNELS (ITEM #23) AROUND EACH LOUVER-CUTOUT

| DESIGN PRESSURE RATING |                                                                          |                                                                         |                                                                        | IMPACT RATING    |
|------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|------------------|
| CONFIGURATION          | WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE NEEDED (OUTSWING ONLY) | WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE NOT NEEDED (OUTSWING) | WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE NOT NEEDED (INSWING) |                  |
| 1                      | -                                                                        | +50/-50                                                                 | +50/-50                                                                | NON-IMPACT RATED |
| 2                      | -                                                                        | +50/-50                                                                 | +50/-50                                                                |                  |
| 3                      | -                                                                        | +50/-50                                                                 | +50/-50                                                                |                  |
| 4                      | -                                                                        | +50/-50                                                                 | +50/-50                                                                |                  |
| 5                      | -                                                                        | +50/-50                                                                 | +50/-50                                                                |                  |
| 6                      | -                                                                        | +50/-50                                                                 | +50/-50                                                                |                  |

CONSTRUCTION NOTES:

- 1. DOOR CONSTRUCTION
  - 1.1. NOMINAL DOOR THICKNESS - 1 3/4"
  - 1.2. LOUVER OPENING SIZE TESTED (SEE SHEET 20 & 21) IS MAX AVAILABLE FOR 8'0" X 8'0" OPENING. ALL SMALLER SIZES ARE ACCEPTABLE.
  - 1.3. MAXIMUM LOUVER OPENING SIZES WILL CHANGE IN PROPORTION WITH DOOR SIZE, KEEPING THE SAME STILE AND RAIL MINIMUM DIMENSIONS SPECIFIED IN ELEVATION. (SEE SHEET 4 & 22)
- 2. FRAME CONSTRUCTION
  - 2.1. MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
  - 2.2. STEELCRAFT FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 4, SHT. 10). REPUBLIC FRAME OPTIONS AVAILABLE AS ME-SERIES AND SE-SERIES (SEE TABLE 9, SHT. 24).
- 3. FOR STEELCRAFT DOOR SPECIFICATIONS REFERENCE SEE TABLE 3, SHT. 9. FOR REPUBLIC DOORS DOOR SPECIFICATIONS REFERENCE SEE TABLE 8, SHT. 24.
- 4. FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 10 & 24 FOR DETAIL.

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TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES &  
DESIGN PRESSURE TABLE

PREPARED BY: BUILDING DROPS, INC.

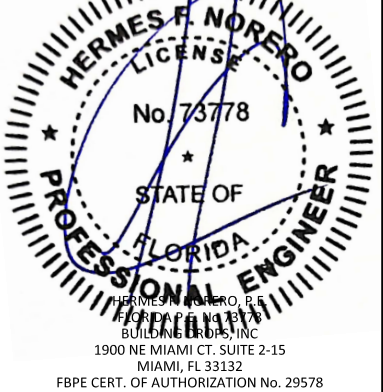
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| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.06.25 |

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Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2025.12.10 18:59:52 -05'00'



FL10356

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|----------|----------|
| DATE:    | 04.20.23 |
| DWG. BY: | DI       |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | LDDA330  |

SHEET:  
1  
OF 30

TABLE 1: DOOR CONFIGURATIONS AND LOCKING HARDWARE

| DOOR<br>CONFIGURATION | MAXIMUM DESIGN PRESSURE, PSF |           | MAXIMUM DOOR OPENING<br>SIZE, IN |        | LOCKING HARDWARE DESCRIPTION |                                  |                                                                                                                          |                             |                                                                             |            | COMMENTS                                                                     |
|-----------------------|------------------------------|-----------|----------------------------------|--------|------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------|------------|------------------------------------------------------------------------------|
|                       | OUTSWING                     | INSWING   | WIDTH                            | HEIGHT | HARDWARE ACTIVE<br>LEAF      | MODEL/SERIES                     | STRIKE MODELS                                                                                                            | BRAND                       | HARDWARE<br>INACTIVE LEAF                                                   | BRAND      |                                                                              |
| 1                     | +50 / -50                    | +50 / -50 | 96                               | 96     | MORTISE LOCK                 | L/LV9400, AD-MD,<br>CO-MD, PM400 | STANDARD                                                                                                                 | SCHLAGE                     | FLUSH BOLTS:<br>FB31P & FB51P<br>SURFACE BOLTS:<br>SB360, SB453 &<br>SB1630 | IVES       | FUNCTIONS WITH DEADBOLT 3/4"<br>MIN. THROW LATCH &<br>1" MIN. THROW DEADBOLT |
|                       |                              |           |                                  |        |                              | LE-MD, LEB-MD                    |                                                                                                                          |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | XE360-M-D                        |                                                                                                                          |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | MA                               |                                                                                                                          |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | L/LV9000, AD-MS,<br>CO-MS, PM    | STANDARD                                                                                                                 | SCHLAGE                     |                                                                             | IVES       | FUNCTIONS WITHOUT DEADBOLT<br>3/4" MIN. THROW LATCH                          |
|                       |                              |           |                                  |        |                              | LE-MS, LEB-MS, LE-MB,<br>LEB-MEB |                                                                                                                          |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | XE360-M-B & XE360-M-I            |                                                                                                                          |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | MA                               |                                                                                                                          |                             |                                                                             |            |                                                                              |
| 2                     | +50 / -50                    | +50 / -50 | 96                               | 96     | CYLINDRICAL<br>LOCK          | ND, NDE, NDEB, A, AL, S          | STANDARD                                                                                                                 | SCHLAGE                     | FLUSH BOLTS:<br>FB31P & FB51P<br>SURFACE BOLTS:<br>SB360, SB453 &<br>SB1630 | IVES       | 1/2" MIN. THROW LATCH                                                        |
|                       |                              |           |                                  |        |                              | AD-CY, CO-CY                     |                                                                                                                          |                             |                                                                             |            | 1/2" MIN. THROW LATCH<br>(13-247,14-028)                                     |
|                       |                              |           |                                  |        |                              | ALX, PC                          |                                                                                                                          |                             |                                                                             |            | 1/2" MIN. THROW LATCH                                                        |
|                       |                              |           |                                  |        |                              | B, X                             |                                                                                                                          | 1/2" MIN. THROW LATCH       |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | T, TM                            |                                                                                                                          | 1/2" THROW LATCH (23981145) |                                                                             |            |                                                                              |
| 3                     | +50 / -50                    | +50 / -50 | 96                               | 96     | RIM EXIT<br>DEVICE           | 22, 22-F                         | STL MULLION: 299/299-F x<br>4954, 299/299-F, 499-F x<br>9954, 1606 x 1654<br>AL MULLION: 299/299-F x<br>5654, 1408x 5754 | VON DUPRIN                  | RIM EXIT<br>DEVICE                                                          | VON DUPRIN | (KR) OPTION AVAILABLE FOR STEEL<br>MULLIONS                                  |
|                       |                              |           |                                  |        |                              | 98/99 &<br>98/99-F               |                                                                                                                          |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | HW78, HW78-F                     |                                                                                                                          |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | 33A, 35A, 33A-F, 35A-F           | STL MULLION: 299/299-F x<br>4954, 299/299-F, 499-F x<br>9954, 1606 x 1654<br>AL MULLION: 299/299-F x<br>5654, 1408x 5754 |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | HW75, HW75-F                     | AL MULLION: 299/299-F x<br>5654, 1408x 5754                                                                              |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | 88, 88-F                         | STL MULLION: 299/299-F x<br>4954, 299/299-F, 268 x<br>9954, 1606 x 1654<br>AL MULLION: 299/299-F x<br>5654               |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | 55                               | AL MULLION:<br>1408x 5754                                                                                                |                             |                                                                             |            |                                                                              |
|                       |                              |           |                                  |        |                              | XP98/99 &<br>XP98/99-F           | STL MULLION: 299/299-F x<br>4954, 299/299-F, 268 x<br>9954, 1606 x 1654<br>AL MULLION: 299/299-F x<br>5654               |                             |                                                                             |            | (KR) OPTION AVAILABLE FOR STEEL<br>MULLIONS                                  |
|                       |                              |           |                                  |        |                              | 19-R, F-19-R                     | STL MULLION:<br>F570/F490 x 2923,<br>F570/F490 x 4023,<br>F570/F490 x F4023                                              | FALCON                      |                                                                             | FALCON     | (KR) OPTION AVAILABLE FOR 4023<br>& F4023 MULLIONS                           |
|                       |                              |           |                                  |        |                              | 24-R, F-24-R                     | STL MULLION:<br>299/299-F x 2923,<br>299/299-F x 4023,<br>299/299-F x F4023                                              |                             |                                                                             |            |                                                                              |



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TABLE 1: DOOR CONFIGS.  
& LOCKING HARDWARE

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| REMARKS           | BY | DATE     |
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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

FL10356

DATE: 04.20.23

|             |              |
|-------------|--------------|
| DWG. BY: DI | CHK. BY: HFN |
|-------------|--------------|

SCALE: NTS

DWG. #: LDDA330

SHEET: 2 OF 30

TABLE 1: DOOR CONFIGURATIONS AND LOCKING HARDWARE CONT.

| DOOR<br>CONFIGURATION | MAXIMUM DESIGN PRESSURE, PSF |           | MAXIMUM DOOR OPENING<br>SIZE, IN |        | LOCKING HARDWARE DESCRIPTION             |                                        |                                                                                                                                                             |            |                                              |            | COMMENTS                                             |
|-----------------------|------------------------------|-----------|----------------------------------|--------|------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------|------------|------------------------------------------------------|
|                       | OUTSWING                     | INSWING   | WIDTH                            | HEIGHT | HARDWARE ACTIVE<br>LEAF                  | MODEL/SERIES                           | STRIKE MODELS                                                                                                                                               | BRAND      | HARDWARE<br>INACTIVE LEAF                    | BRAND      |                                                      |
| 4                     | +50 / -50                    | +50 / -50 | 96                               | 96     | THREE-POINT<br>LATCHING<br>DEVICE        | 98/9957, 98/9957-F                     | TOP: 299F/499F<br>STL MULLION:<br>299/299-F x 4954, 299/299-F.<br>499-F x 9954, 1606 x 1654<br>AL MULLION:<br>299/299-F x 5654, 1408 x 5754<br>BOTTOM: 304L | VON DUPRIN | 3 PONT EXIT DEVICE<br>OR<br>360 SURFACE BOLT | VON DUPRIN | (KR) OPTION AVAILABLE FOR<br>STEEL MULLIONS          |
| 5                     | +50 / -50                    | +50 / -50 | 96                               | 96     | SURFACE<br>VERTICAL ROD<br>EXIT DEVICE   | 2227, 2227-F                           | TOP: 299F-499F<br>BOTTOM: 304L                                                                                                                              | VON DUPRIN | SVR EXIT DEVICE                              | VON DUPRIN | -                                                    |
|                       |                              |           |                                  |        |                                          | 3327A, 3527A,<br>3327A-F, 3357A-F      |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | HW75, HW75-F                           |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | 8827                                   |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | 98/9927 &<br>98/9927-F                 |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | HW78, HW78-F                           |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | 24-V, F-24-V                           | TOP: 3788<br>BOTTOM: 2130                                                                                                                                   | FALCON     |                                              | FALCON     | -                                                    |
|                       |                              |           |                                  |        |                                          | 25-V, F-25-V                           |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | 19-V, F-19-V                           |                                                                                                                                                             |            |                                              |            |                                                      |
| 6                     | +50 / -50                    | +50 / -50 | 96                               | 96     | CONCEALED<br>VERTICAL ROD<br>EXIT DEVICE | 33/3547A,<br>33/3547A-F,<br>HH33/3547A | TOP: 338<br>BOTTOM: 304L                                                                                                                                    | VON DUPRIN | CVR EXIT DEVICE                              | VON DUPRIN | HH33/3547 & HH98/9947<br>DEVICE HAS A 2-3/4" BACKSET |
|                       |                              |           |                                  |        |                                          | HW7547, HW7547-F                       |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | 98/9947, 98/9947-F,<br>HH98/9947       |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | HW7847, HW7847-F                       |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | 94/9547, 94/9547-F                     |                                                                                                                                                             |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | 5547                                   | TOP: 471U<br>BOTTOM: 304L                                                                                                                                   | FALCON     |                                              | FALCON     |                                                      |
|                       |                              |           |                                  |        |                                          | 24-C, F-24-C                           | TOP: 4188<br>BOTTOM: 2130                                                                                                                                   |            |                                              |            |                                                      |
|                       |                              |           |                                  |        |                                          | 25-C, F-25-C                           |                                                                                                                                                             |            |                                              |            |                                                      |

NOTES:

1. FOR DOOR CONFIGURATIONS 1 & 2, INACTIVE LEAF REQUIRES SURFACE BOLTS OR FLUSH BOLTS IN TOP AND BOTTOM.  
SURFACE BOLTS INSTALLED WITH SEX BOLTS  
SB360 - #12-24 OHMS  
SB453 - #10-24 FHMS  
SB1630 - 1/4"-20 FHMS
2. SEE SHEETS 19 FOR HARDWARE MULLION DETAILS
3. EXIT HARDWARE OPTIONS:  
FOR 98/99, XP98/99, 94/95, 33A/35A, HW75, HW78, AND 22 SERIES -OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, LD, PN  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
FOR 88 AND 55 SERIES - OPTION E  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
PN MODEL OFFERED.  
FOR FALCON 24 AND 25 SERIES - OPTIONS DM, LM, RX, KOR, MEL, EA, FSA, FSE, CD, LD  
FOR FALCON 19 SERIES  
TRIM: ALL APPLICABLE TRIMS AVAILABLE



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| LOCK UPDATE       | JA | 09.09.24 |
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FL10356

|                 |              |
|-----------------|--------------|
| DATE: 04.20.23  |              |
| DWG. BY: DI     | CHK. BY: HFN |
| SCALE: NTS      |              |
| DWG. #: LDDA330 |              |
| SHEET: 3        |              |

OF 30



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STEELCRAFT: OPENING DIMENSIONS  
& BOM

PREPARED BY:

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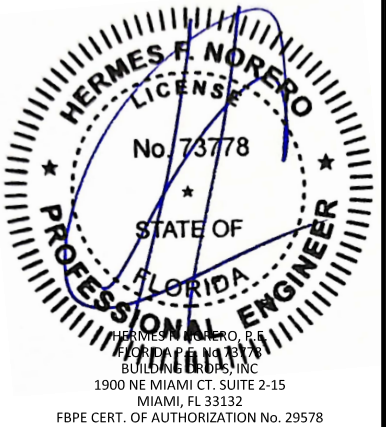
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|          |          |
|----------|----------|
| DATE:    | 04.20.23 |
| DWG. BY: | DI       |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | LDDA330  |
| SHEET:   |          |

4

OF 30

OUTSWING AND INSWING DOOR  
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE

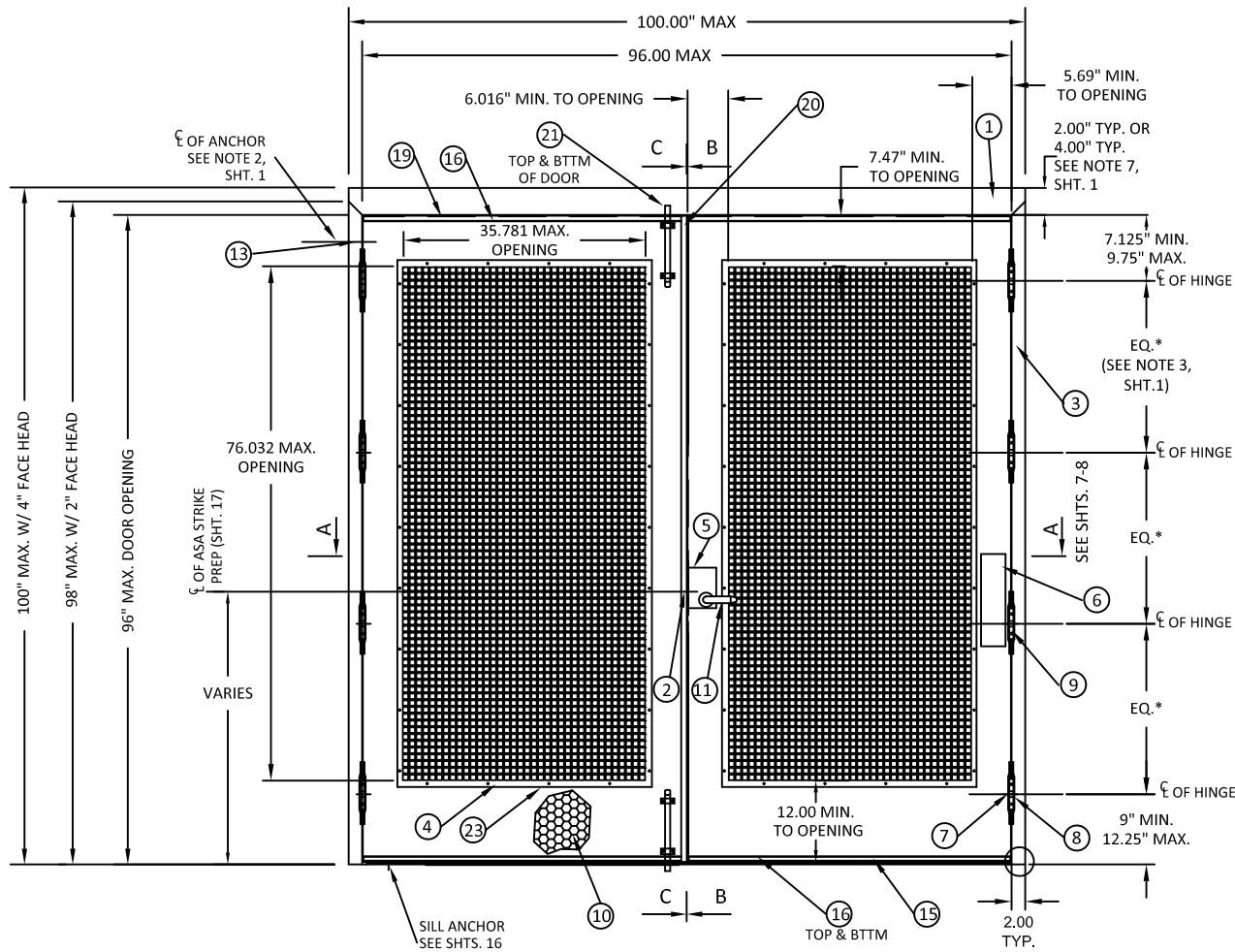


TABLE 2: ( FOR OPTION 2 CONFIGURATION SEE TABLE 7 SHT. 22)

| ITEM | QUANTITY         | DESCRIPTION                                                                                                                                                | MATERIAL                                                                                                          | SIZE                                   |
|------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1    | 1                | HEAD                                                                                                                                                       | .053" MIN. STL                                                                                                    | MAX. 100"                              |
| 2    | 1                | HARDWARE MULLION USED W/ RIM EXIT OR THREE POINT LATCHING EXIT DEVICE                                                                                      | STL OR ALUM                                                                                                       | MAX. 96" HEIGHT                        |
| 3    | 2                | HINGE JAMB                                                                                                                                                 | .053" MIN. STL                                                                                                    | MAX. 100" HEIGHT                       |
| 4    | VAIRES           | FIXED DOOR LOUVER:<br>ANEMOSTAT PLSL<br>AIR LOUVERS, INC. - 1500-A<br>NATIONAL GUARD PRODUCTS - L-VRSG-2<br>ANEMOSTAT FLDL-UL-SG1 OR FLDL-UL-SG2           | SEE SHT. 20 & 21                                                                                                  | SEE SHT. 20 & 21                       |
| 5    | 2                | LOCK REINFORCEMENT TO SUIT HARDWARE                                                                                                                        | .053" MIN. STL                                                                                                    | VARIES                                 |
| 6    | AS NEEDED        | HINGE SIDE PANIC REINFORCEMENT AS REQUIRED                                                                                                                 | .067" MIN. STL                                                                                                    | MAX. 20"                               |
| 7    | NOTE 3, SHT. 1   | HINGE REINFORCEMENT DOOR                                                                                                                                   | .167" MIN. STL                                                                                                    | 1.23" X 9.19" MIN.                     |
| 8    | NOTE 3, SHT. 1   | HINGE REINFORCEMENT FRAME                                                                                                                                  | .167" MIN. STL                                                                                                    | 1.5" X 9.19" MIN.                      |
| 9    | NOTE 3, SHT. 1   | 4.5" MIN. BUTT HINGES (SEE SHT. 19)                                                                                                                        | .134 MIN. STL                                                                                                     | (8) #12-24 MS PER HINGE                |
|      |                  | OPTIONAL CONTINUOUS HINGE (SEE SHEET 19)                                                                                                                   | .075" MIN. STL / .110" ALUM.                                                                                      | MAX. 95"                               |
| 10   | 2                | CORE MATERIAL:<br>D) HONEYCOMB C) STEEL STIFFENED<br>A&F) POLYSTYRENE B&F) POLYURETHANE/POLYISOCYANURATE<br>E) MINERAL BOARD TEMPERATURE RISE CORE         | SEE SHT. 9                                                                                                        |                                        |
| 11   | 2                | LOCKING HARDWARE - LOCKSET                                                                                                                                 | SEE SHEET 2 & 3, TABLE 1                                                                                          |                                        |
| 12   | 1                | THRESHOLD SILL W/BUMPER GASKET<br>12A) 566 BY ZERO 12F) 565 ZERO<br>12B) 950A BY NGP<br>12C) 65 BY ZERO 12G) 560 ZERO<br>12D) 568 BY ZERO<br>12E) 803V NGP | .125" ALUM. 6063 T5<br>.078" ALUM. 6063 T5<br>0.125" ALUM. 6063 T5<br>0.125" ALUM. 6063 T5<br>.100" ALUM. 6063 T5 | 96" MAX                                |
| 13   | NOTE 2, SHT. 1   | JAMB ANCHOR                                                                                                                                                | SEE SHTS. 11-15 & 25-29                                                                                           | -                                      |
| 14   | SEE SHT. 17 & 18 | 14A) PS074 DOOR SEAL<br>14B) 188S, 14C) 117S, 14D) 8145S, 14E) 8150S, 14F) 8042S                                                                           | TPE<br>SILICONE                                                                                                   | VARIES<br>-                            |
| 15   | 2                | FAS-SEAL DOOR SWEEP. SEE SHT. 17 & 18                                                                                                                      | TPE                                                                                                               | MAX. 48"                               |
| 16   | 4                | END CHANNEL (14 GAGE - INVERTED)                                                                                                                           | .067" MIN. STL                                                                                                    | .69" X 1.66" X 48" MAX.                |
| 17   | 1                | 17A) 328 SPLIT ASTRAGAL BY ZERO INT'L<br>17B) 137 SPLIT ASTRAGAL BY NGP                                                                                    | SEE SHT. 17 & 18<br>SEE SHT. 17 & 18                                                                              | -                                      |
| 18   | AS NEEDED        | CAULK - BUTYL RUBBER OR SILICONE                                                                                                                           | SEE SHT. 17 & 18                                                                                                  | -                                      |
| 19   | 2                | 19A) TOP CAP. GALV. (OPTIONAL)<br>19B) 18 GA DOOR FLUSH TOP CAP                                                                                            | .020" MIN. STL<br>.047" MIN. STL                                                                                  | MAX. 48"                               |
| 20   | 1                | Z-ASTRAGAL REQUIRED FOR CONFIGS. 1 & 2                                                                                                                     | .067" MIN. STL                                                                                                    | MAX. 95.5"                             |
| 21   | 2                | 21A) IVES 360 SURFACE BOLT<br>21B) IVES 453 12" SURFACE BOLT<br>21C) IVES 1630 12" SURFACE BOLT                                                            | STEEL<br>-<br>-                                                                                                   | 12" MIN. - 24" MAX. LENGTH<br>-<br>-   |
| 22   | 1                | ASA STRIKE                                                                                                                                                 | -                                                                                                                 | -                                      |
| 23   | AS NEEDED        | 18 GAUGE LOUVER CUTOUT REINFORCEMENT                                                                                                                       | -                                                                                                                 | 0.5" MIN. X 1.66" X 35.5" & 75.5" MAX. |
| 25   | 2                | DOOR SLAB                                                                                                                                                  | SEE SHT. 9                                                                                                        | -                                      |



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COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)/(NON-IMPACT)  
DOOR & FRAME OUTSWING  
VERTICAL SECTION VIEWS

PREPARED BY:

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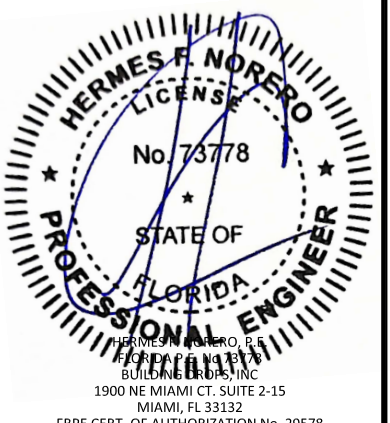
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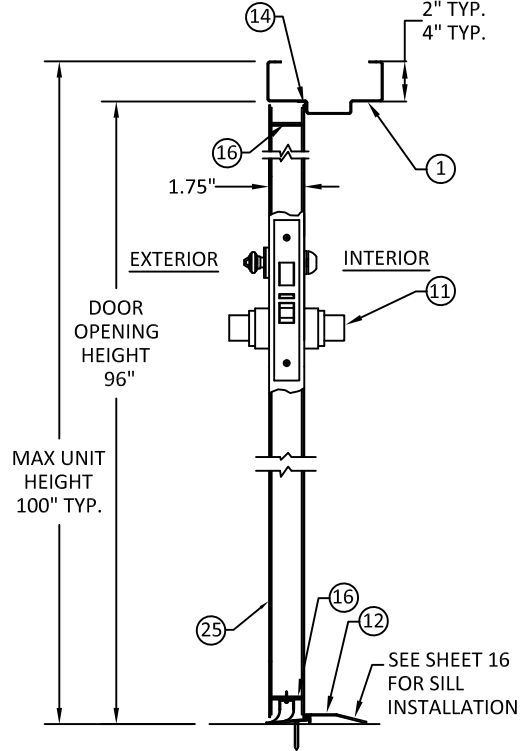


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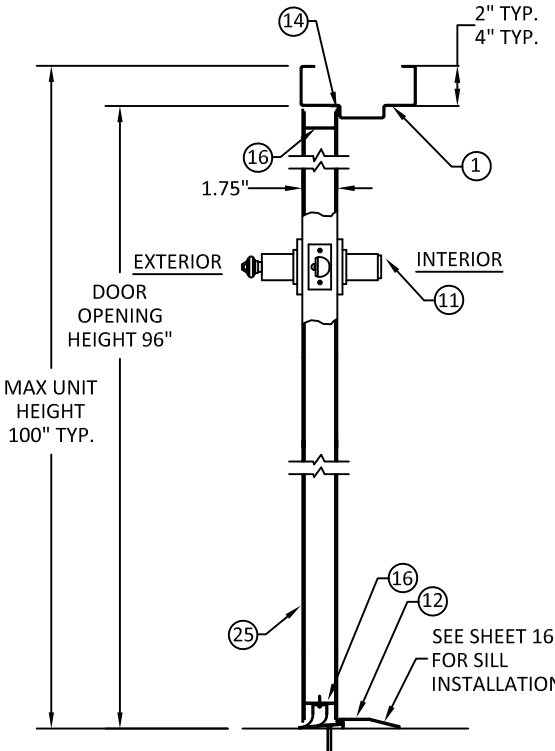
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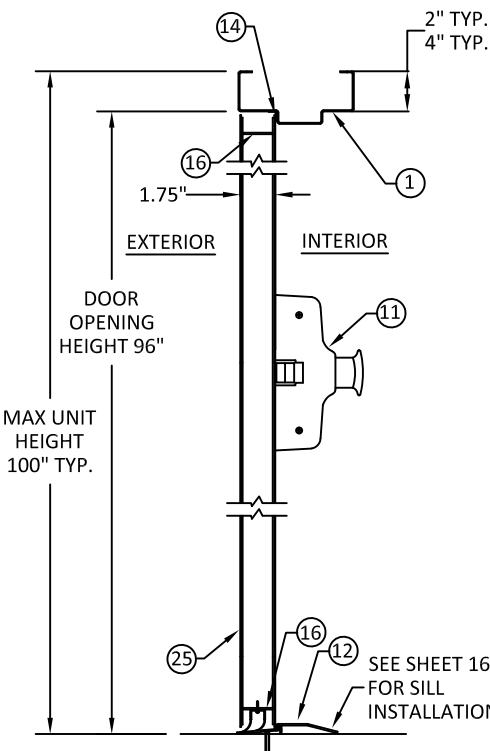
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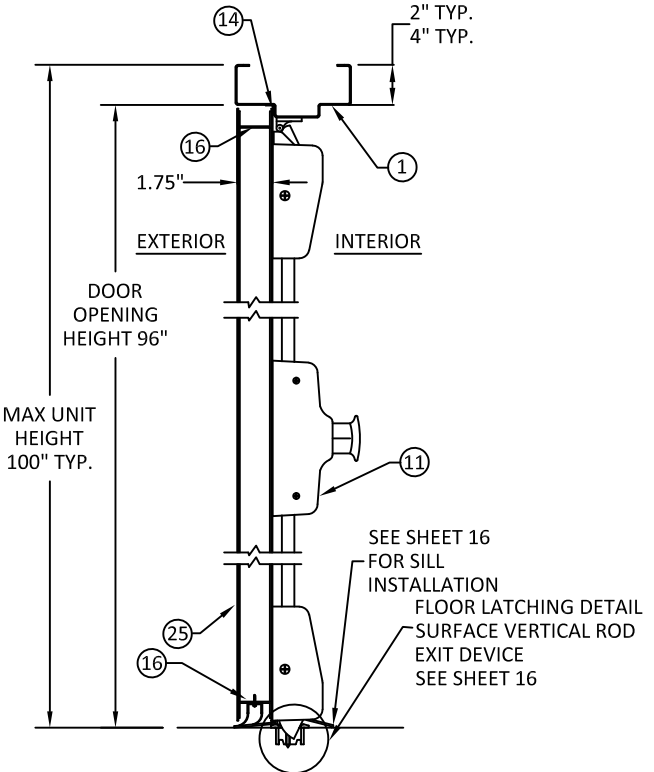
MORTISE LOCK  
SECTION B-B  
(SEE SHT. 2)



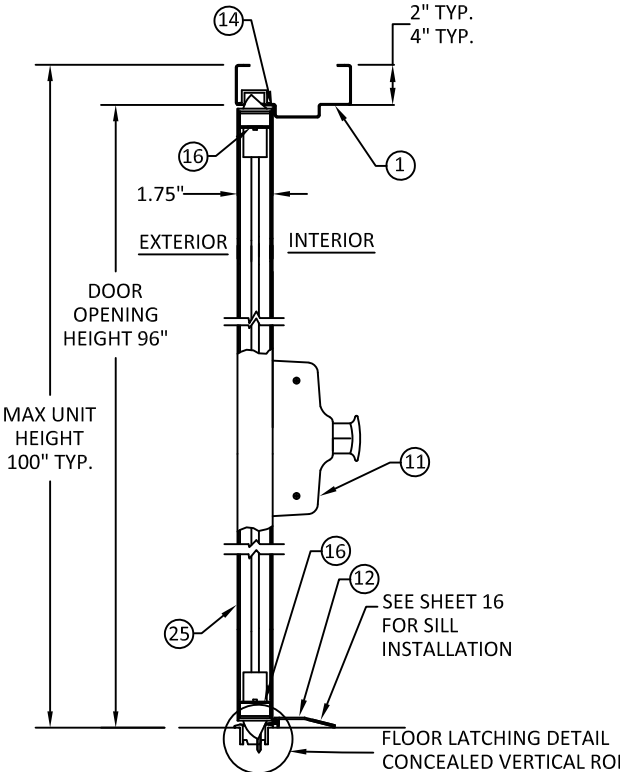
CYLINDRICAL LOCK  
SECTIONS B-B  
(SEE SHT. 2)



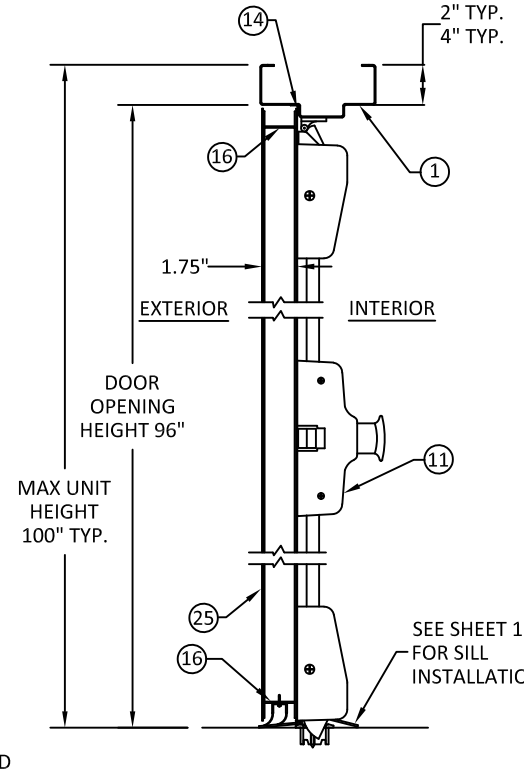
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(SEE SHT. 2)



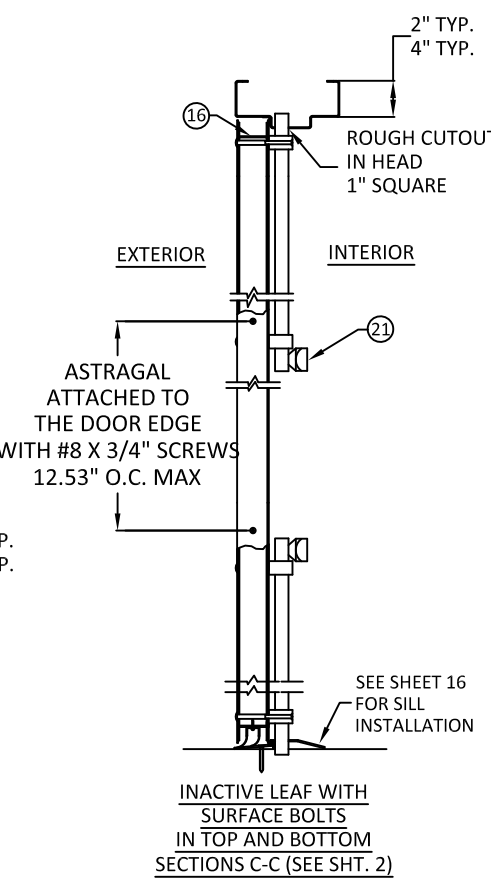
SURFACE VERTICAL ROD EXIT DEVICE  
SECTION B-B  
(SEE SHT. 3)



CONCEALED VERTICAL  
ROD EXIT DEVICE  
SECTION B-B  
(SEE SHT. 3)



THREE-POINT LATCHING EXIT DEVICE.  
SECTIONS B-B  
(SEE SHT. 3)





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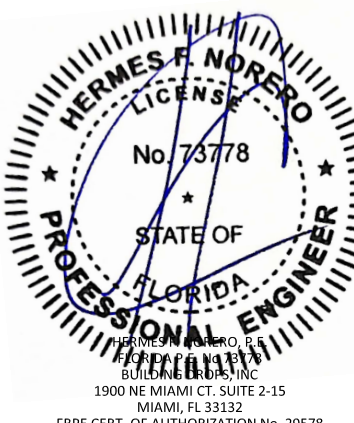
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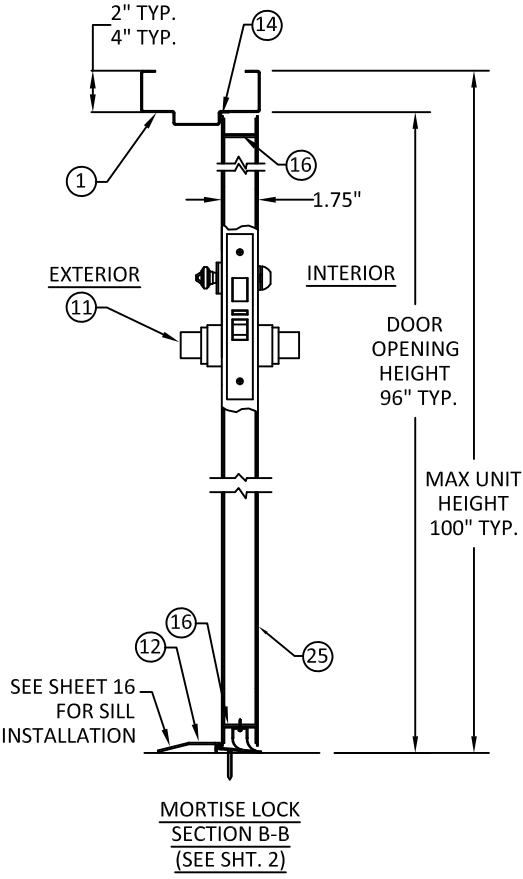


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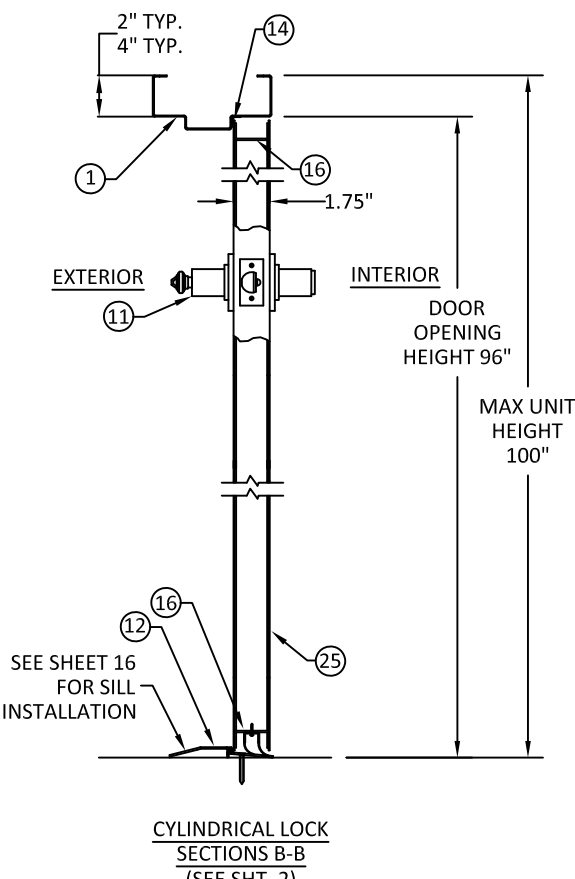
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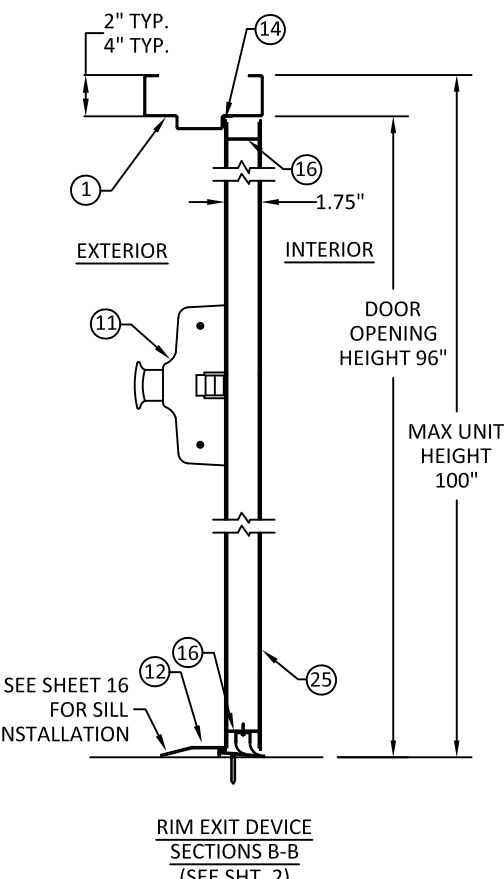
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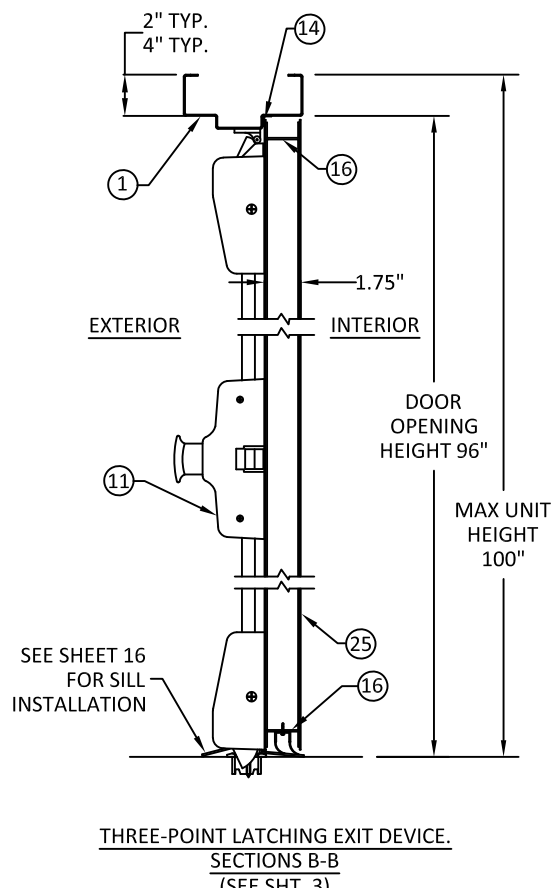
MORTISE LOCK  
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(SEE SHT. 2)



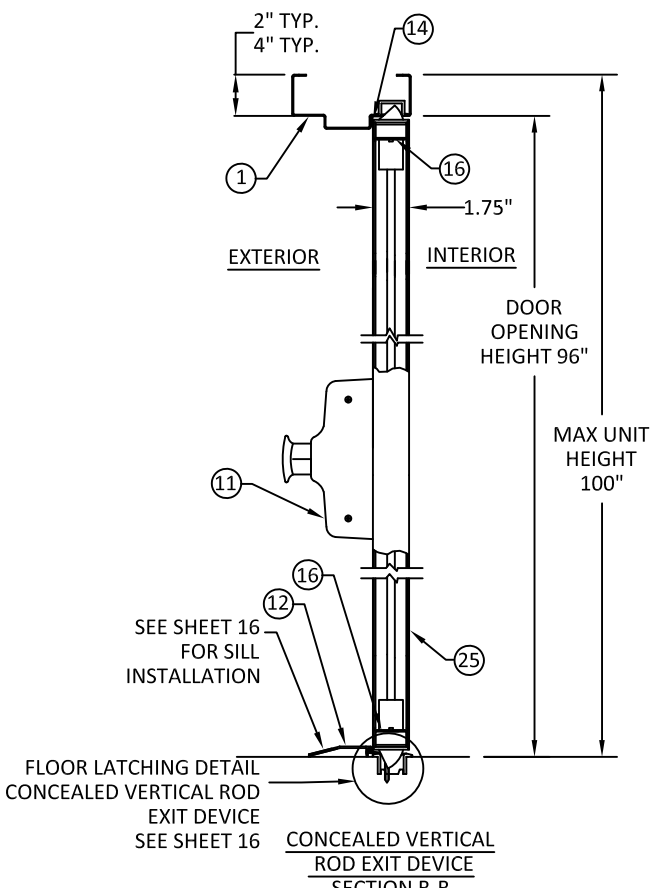
CYLINDRICAL LOCK  
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(SEE SHT. 2)



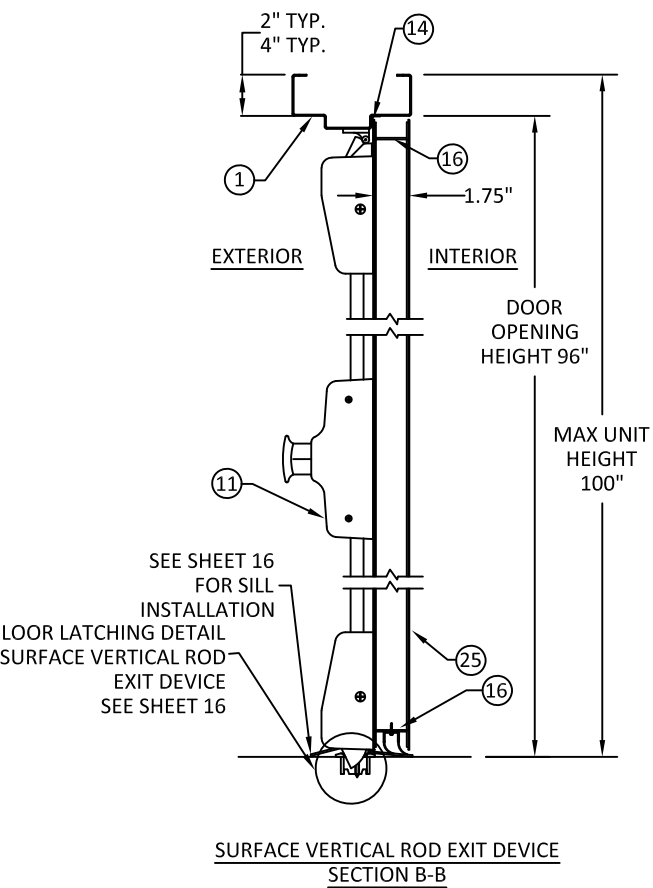
RIM EXIT DEVICE  
SECTIONS B-B  
(SEE SHT. 2)



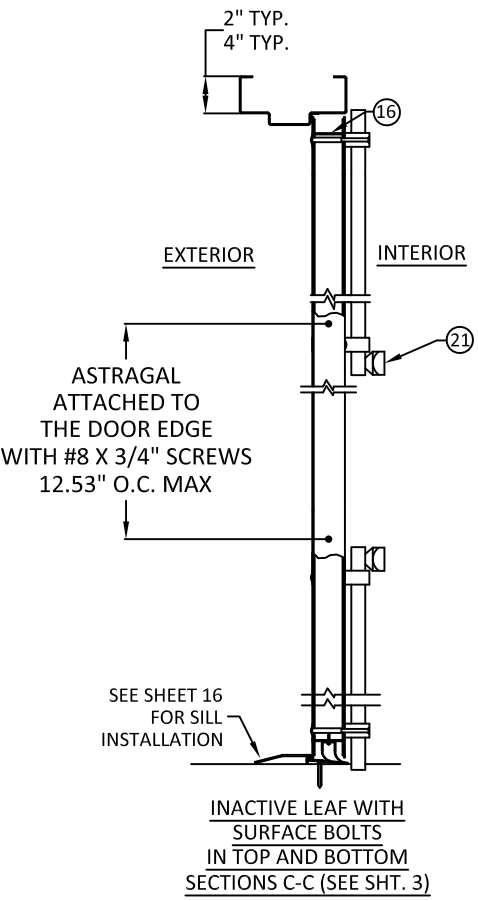
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SECTIONS B-B  
(SEE SHT. 3)

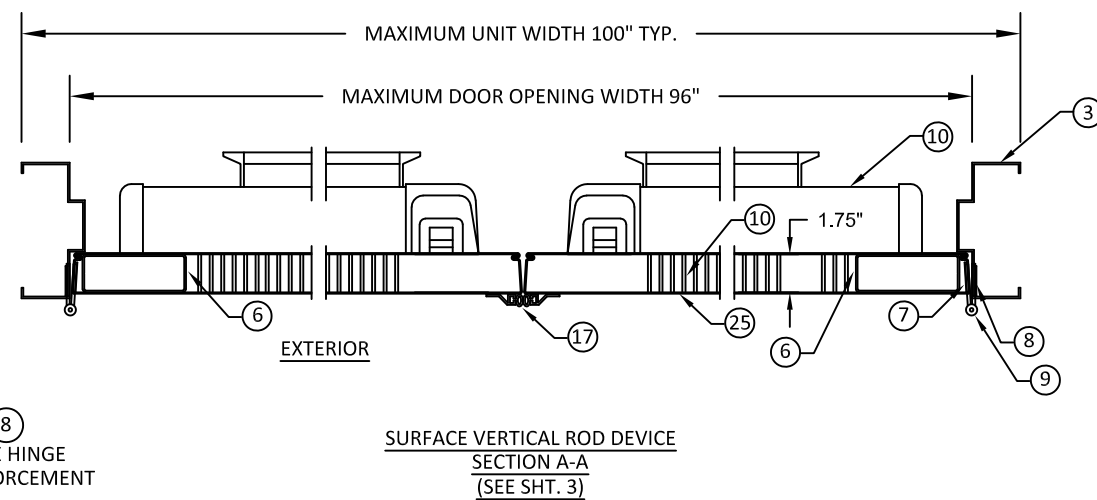
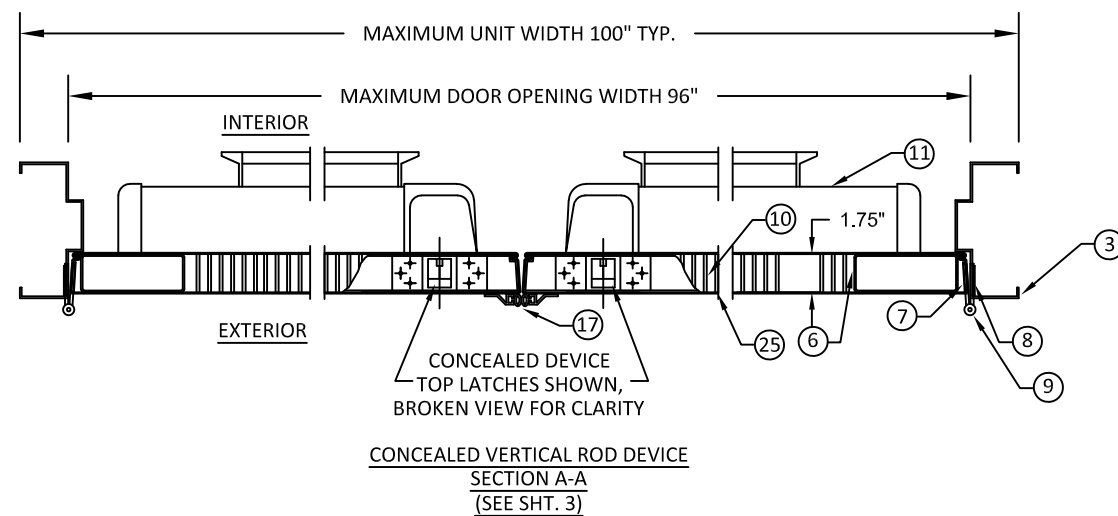
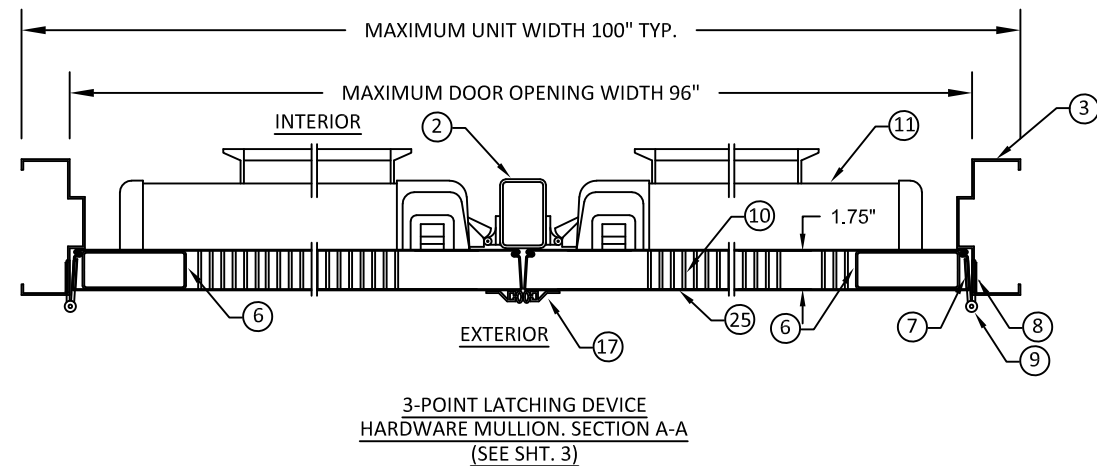
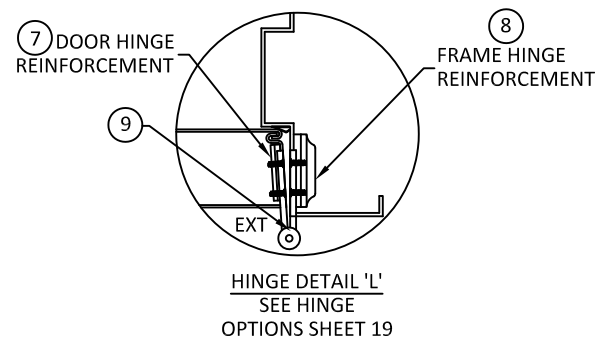
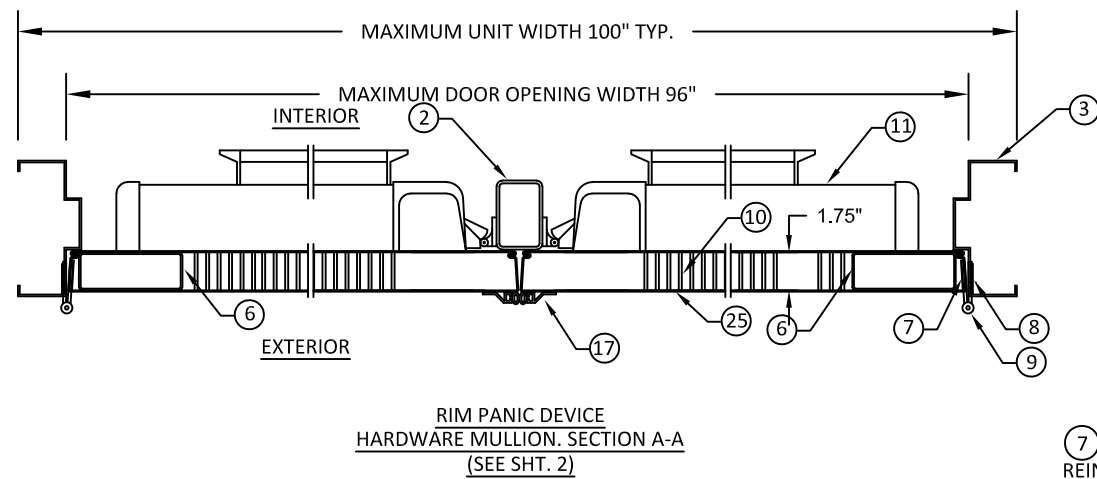
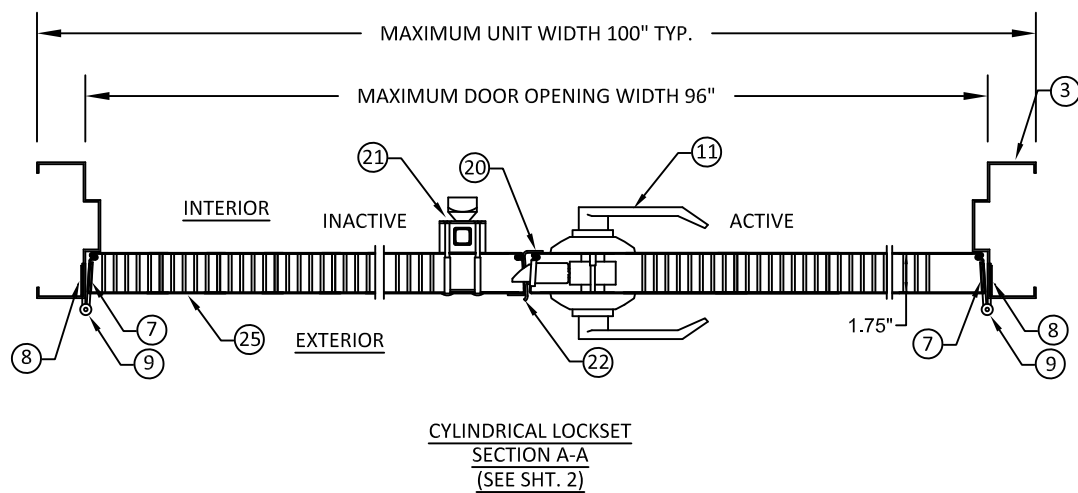
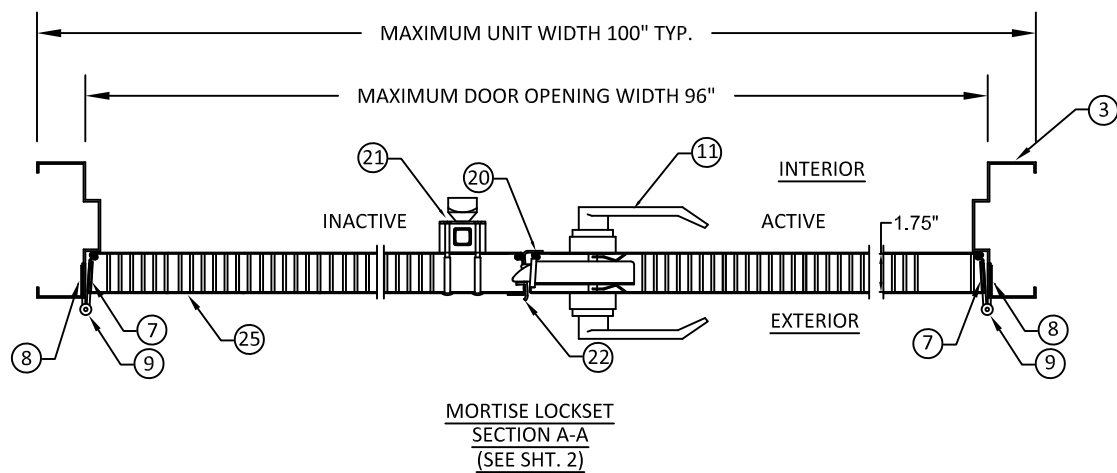


CONCEALED VERTICAL  
ROD EXIT DEVICE  
SECTION B-B  
(SEE SHT. 3)



SURFACE VERTICAL ROD EXIT DEVICE  
SECTION B-B  
(SEE SHT. 3)





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HORIZONTAL SECTION VIEWS

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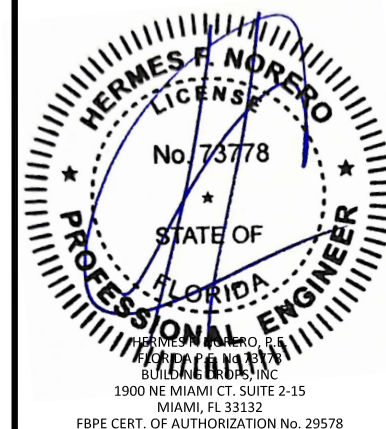
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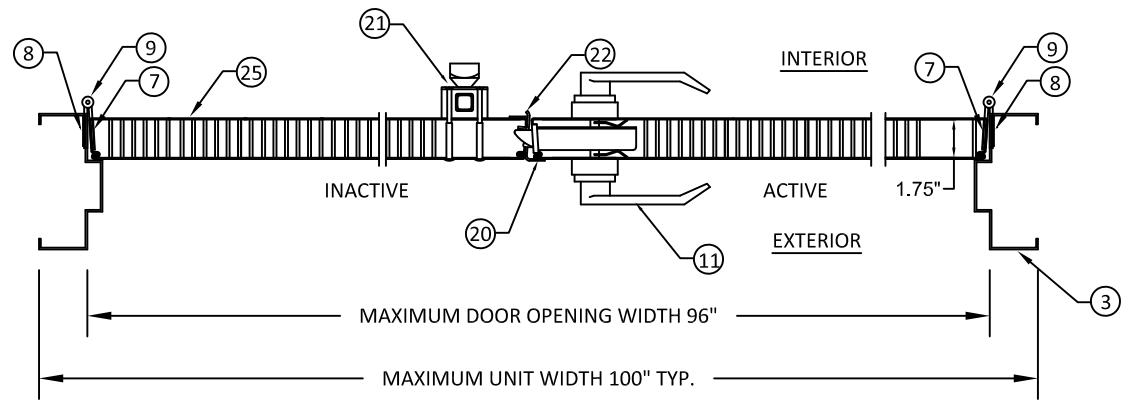
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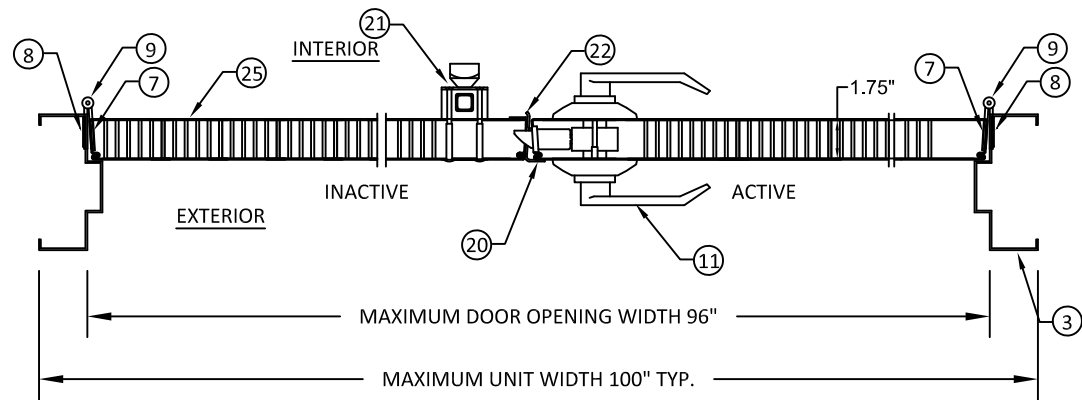
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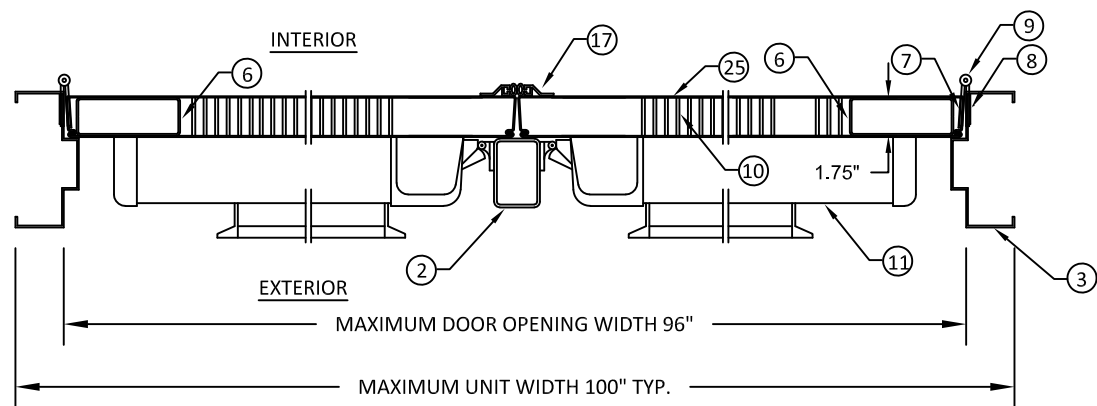
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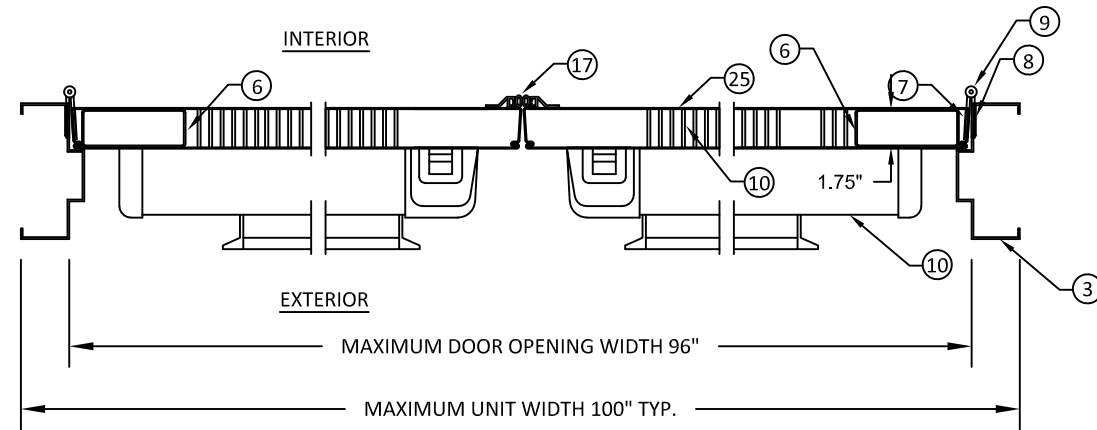
MORTISE LOCKSET  
SECTION A-A  
(SEE SHT. 2)



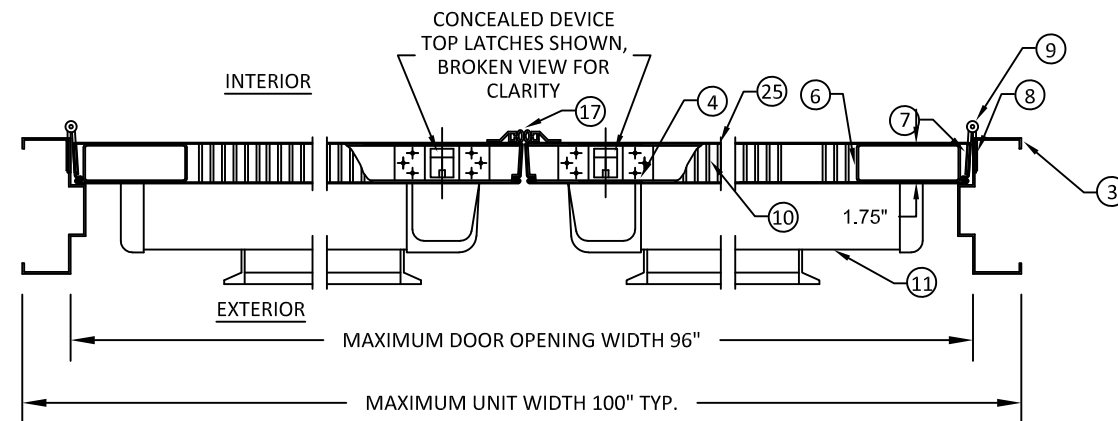
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SECTION A-A  
(SEE SHT. 2)



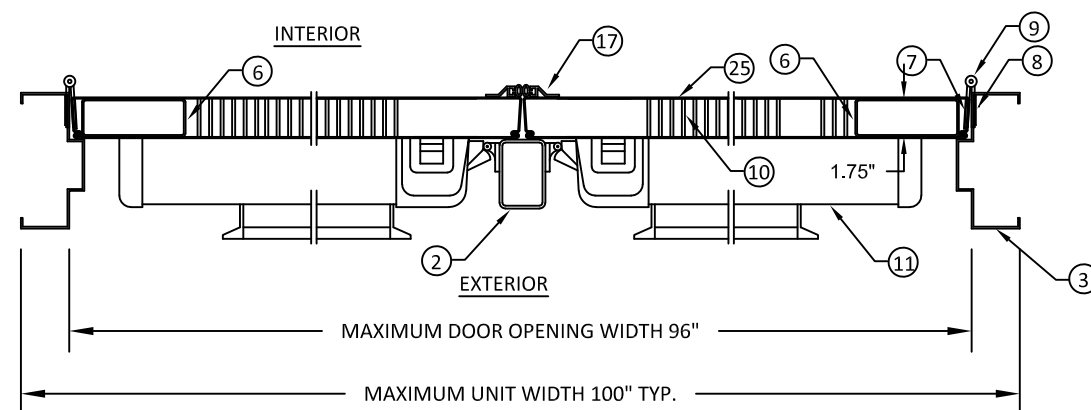
RIM PANIC DEVICE  
HARDWARE MULLION. SECTION A-A  
(SEE SHT. 2)



SURFACE VERTICAL ROD DEVICE  
SECTION A-A  
(SEE SHT. 3)



CONCEALED VERTICAL ROD DEVICE  
SECTION A-A  
(SEE SHT. 3)



3-POINT LATCHING DEVICE  
HARDWARE MULLION. SECTION A-A  
(SEE SHT. 3)



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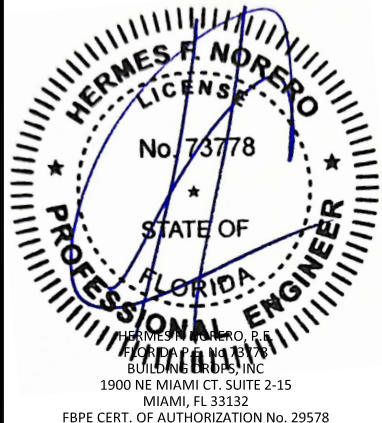
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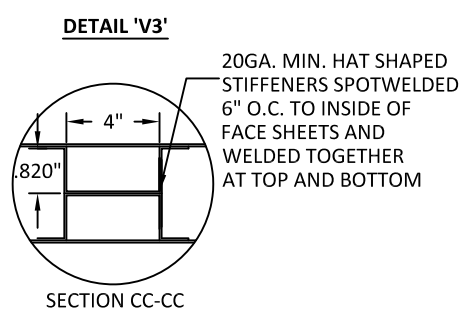
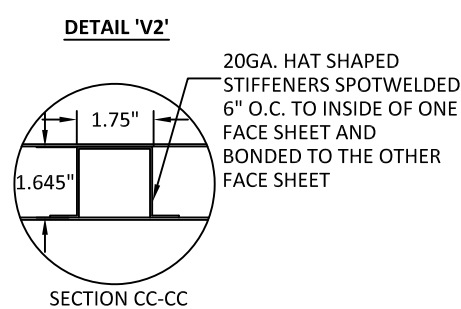
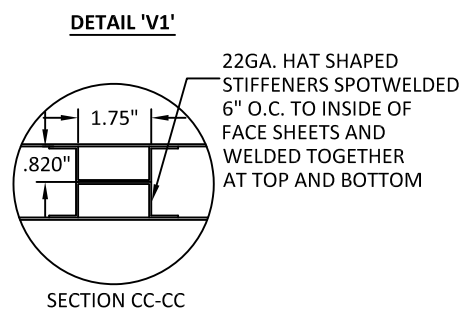
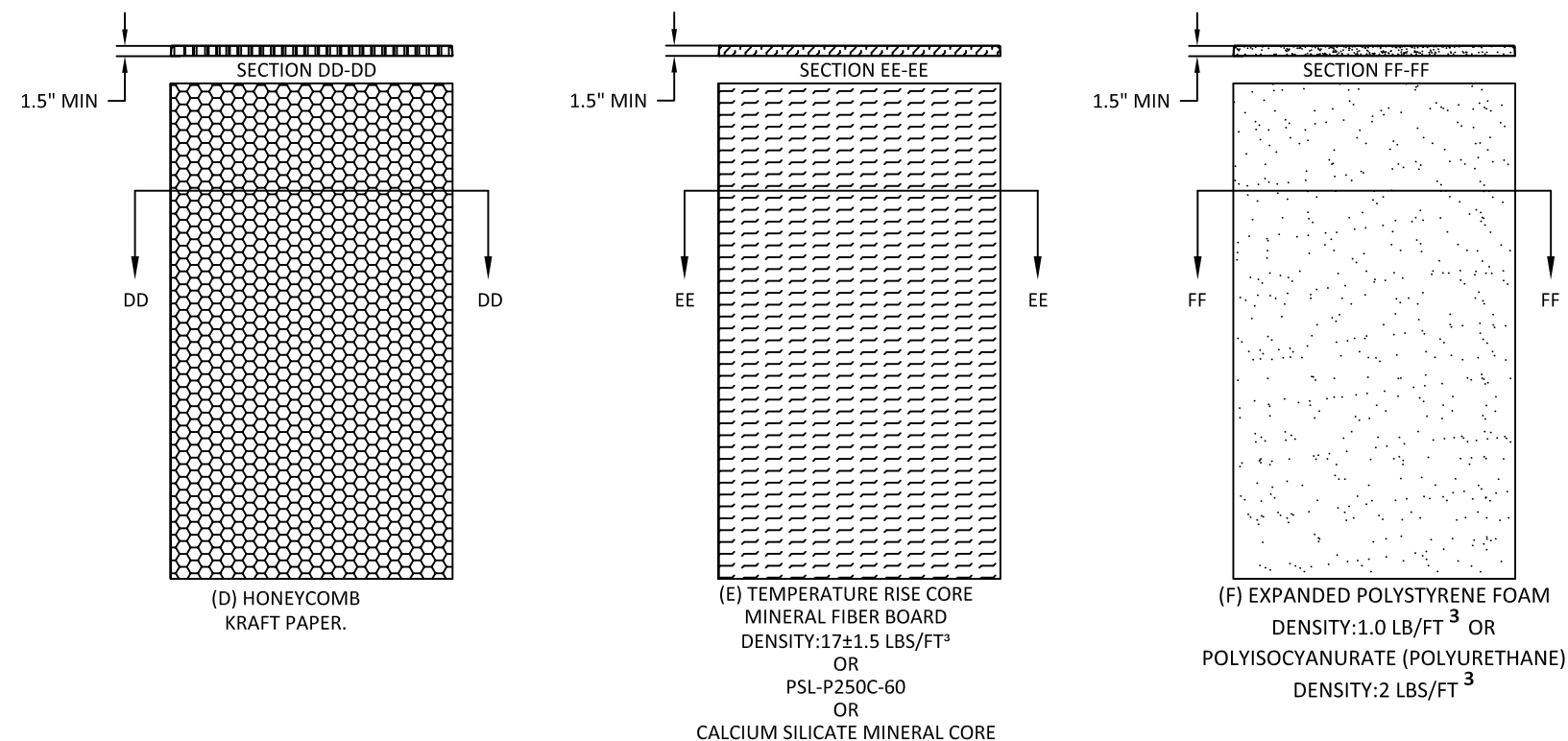
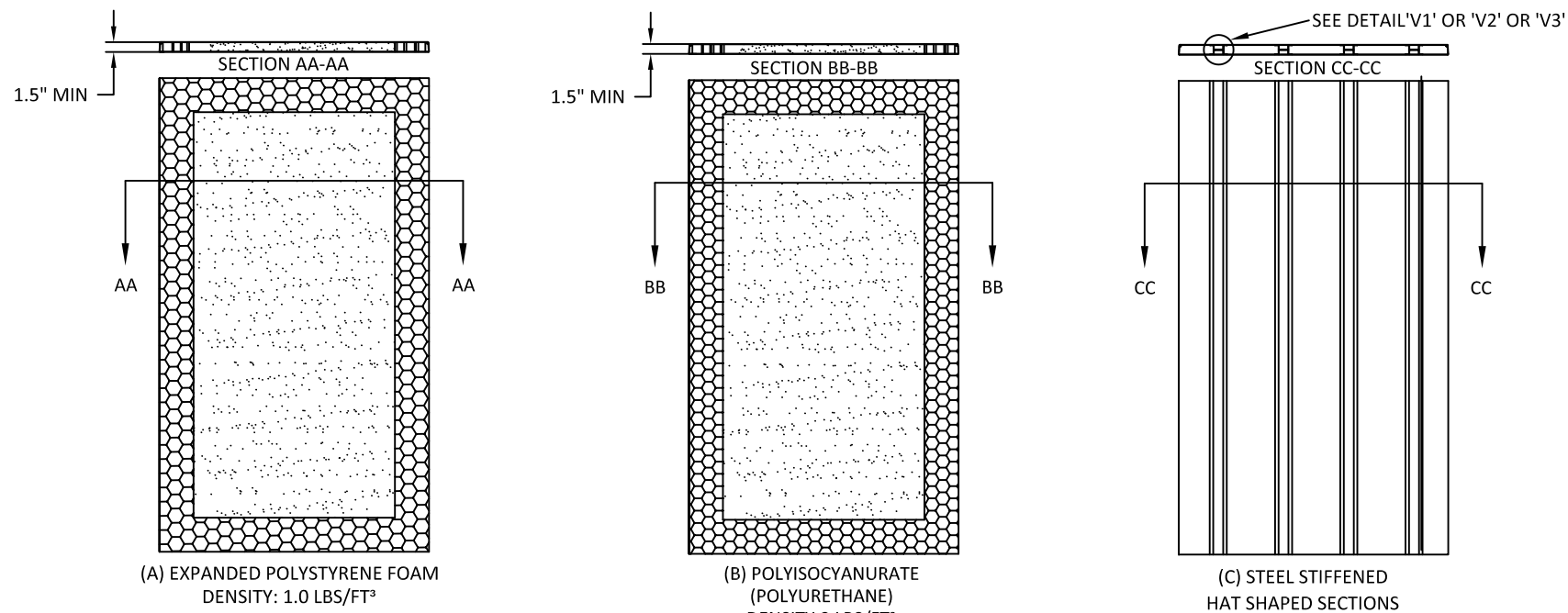
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DWG. #: LDDA330

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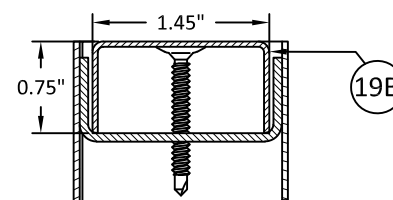
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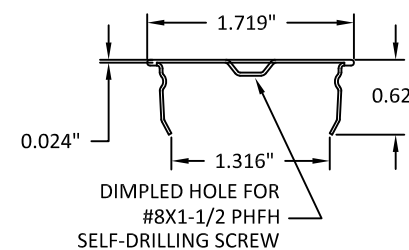
- NOTES:
1. CORE MATERIAL SHOWN WITHOUT CUTOUTS FOR REINFORCEMENTS
  2. STIFFENER QUANTITY VARIES PER DOOR WIDTH

TABLE 3: AVAILABLE STEELCRAFT DOOR CONFIGURATIONS

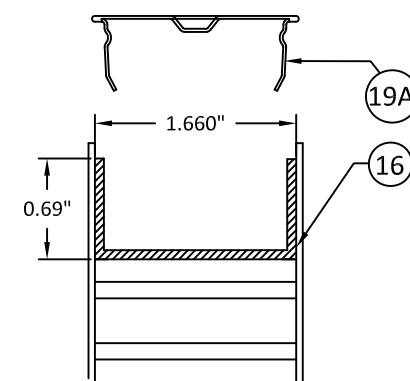
| STEELCRAFT DOOR SERIES | DOOR CORE MATERIAL PER SHT. 9      | MAXIMUM OPENING SIZE |        | SKIN MATERIAL |                                  |
|------------------------|------------------------------------|----------------------|--------|---------------|----------------------------------|
|                        |                                    | WIDTH                | HEIGHT | DESCR.        | GA./MIN. THK                     |
| L                      | HONEYCOMB POLYSTYRENE POLYURETHANE | 8'-0"                | 8'-0"  | CRS. GALV.    | 18/.044"<br>16/.053"<br>14/.067" |
| B                      | STEEL STIFFENED                    | 8'-0"                | 8'-0"  | CRS. GALV.    | 18/.044"<br>16/.053"<br>14/.067" |
| SL/SZ                  | HONEYCOMB POLYSTYRENE POLYURETHANE | 8'-0"                | 8'-0"  | CRS. GALV.    | 18/.044"<br>16/.053"             |
| T                      | MINERAL FIBER                      | 8'-0"                | 8'-0"  | CRS. GALV.    | 18/.044"<br>16/.053"<br>14/.067" |
| CE                     | POLYSTYRENE                        | 8'-0"                | 8'-0"  | GALV.         | 18/.044"<br>16/.053"             |



19B STEELCRAFT: 18 GA FLUSH TOP CAP (OPTIONAL)



19A STEELCRAFT: 24 GA TOP CAP (OPTIONAL)



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



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

TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

DOOR PANEL & CORE DETAILS

PREPARED BY:

BUILDING DROPS, INC.

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

PH: (954) 399-8478

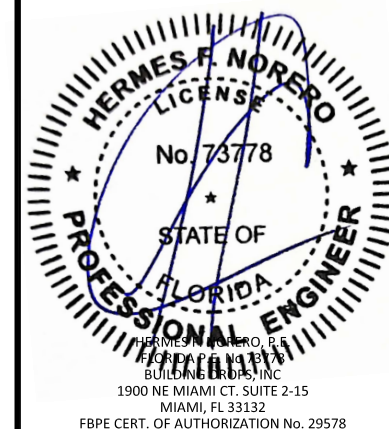
FAX: (954) 744-4738

WEB: www.buildingdrops.com



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.06.25 |

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FL10356

DATE: 04.20.23

DWG. BY: DI

CHK. BY: HFN

SCALE: NTS

DWG. #: LDDA330

SHEET:

9

OF 30

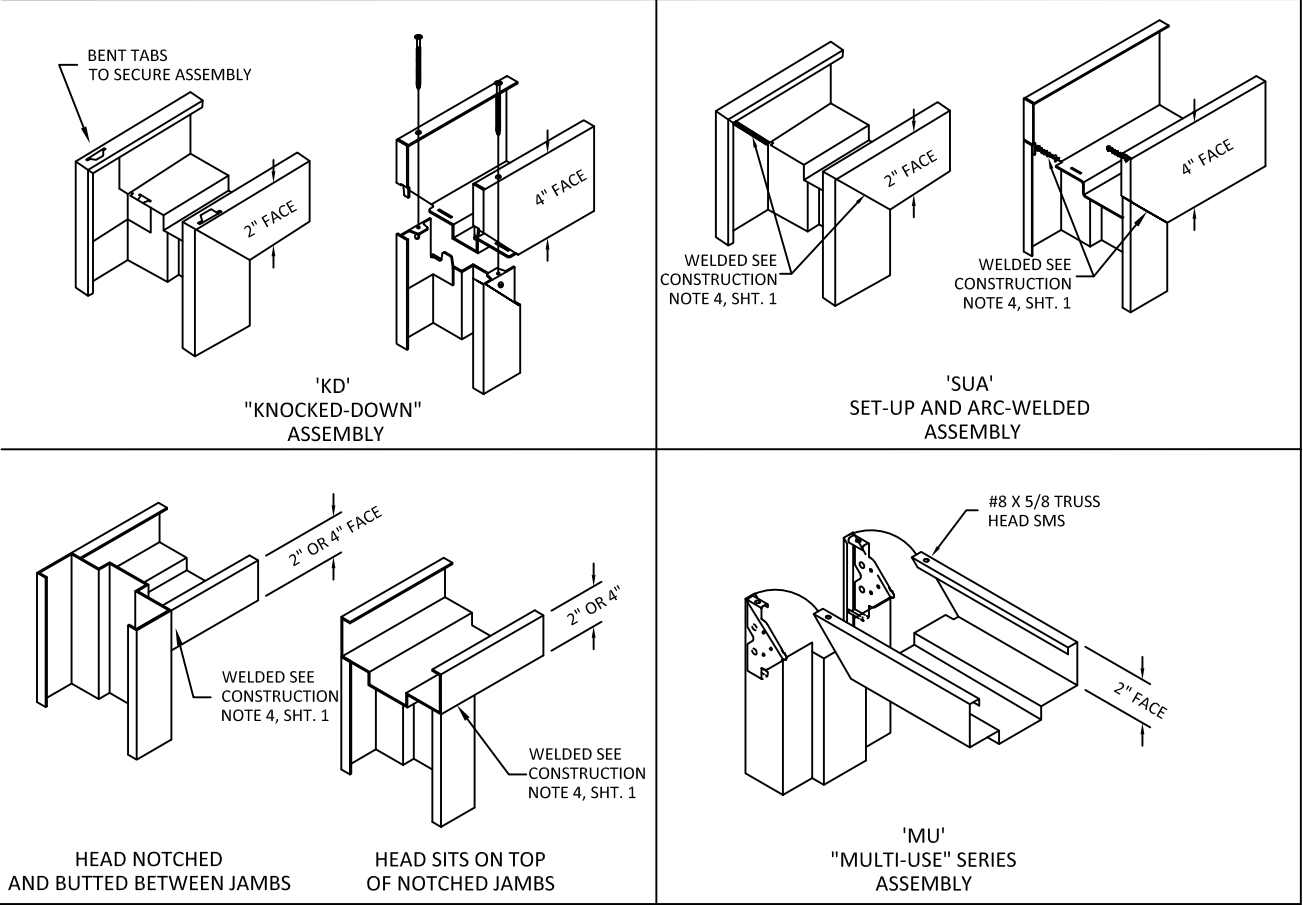


TABLE 4: AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

| 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: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-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

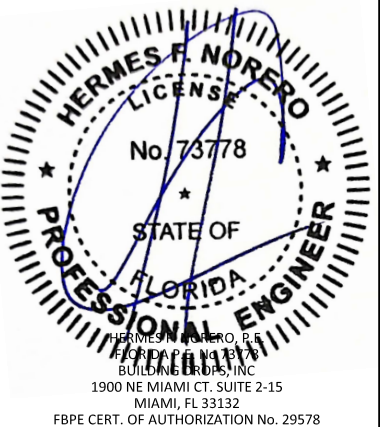
FAX: (954)744-4738

WEB: www.buildingdrops.com



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
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HFN

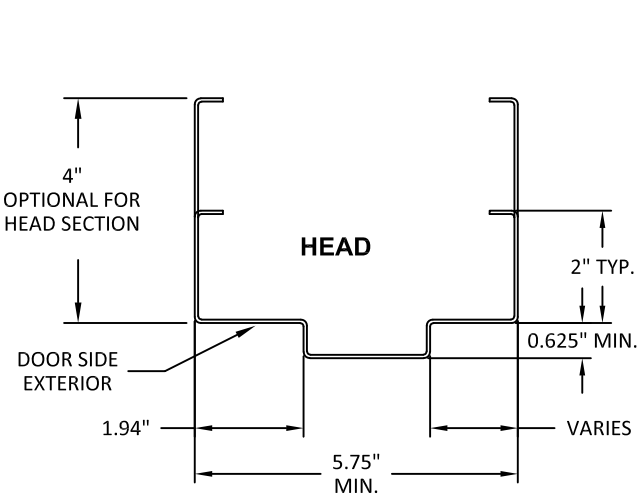
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DWG. #: LDDA330

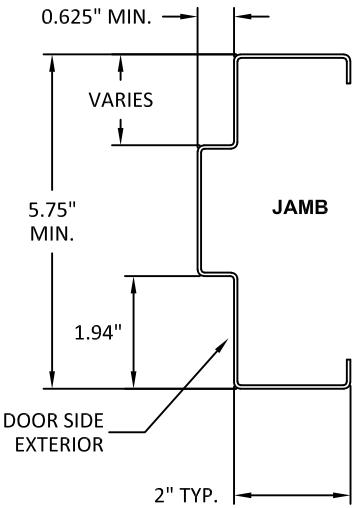
SHEET:

10

OF 30

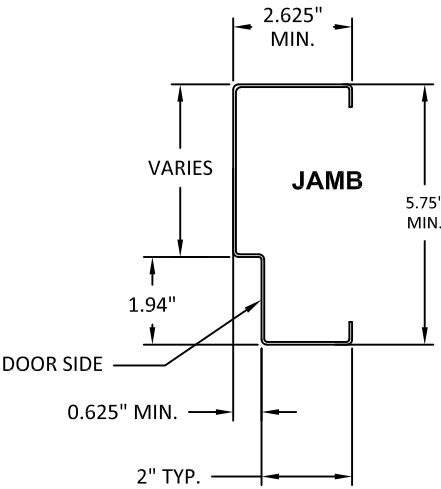
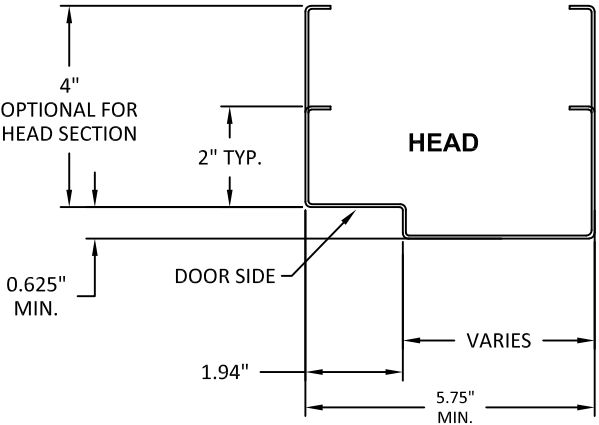


TYPICAL FRAME PROFILE  
DOUBLE RABBET

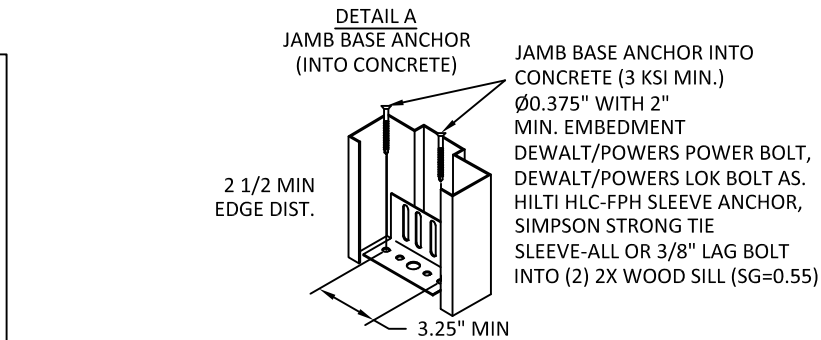
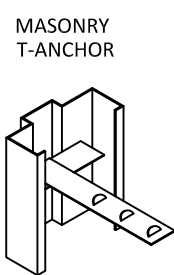
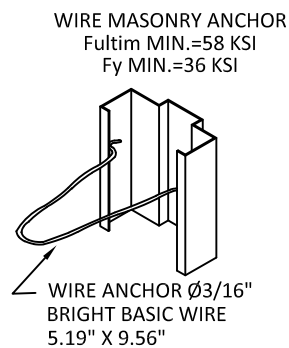
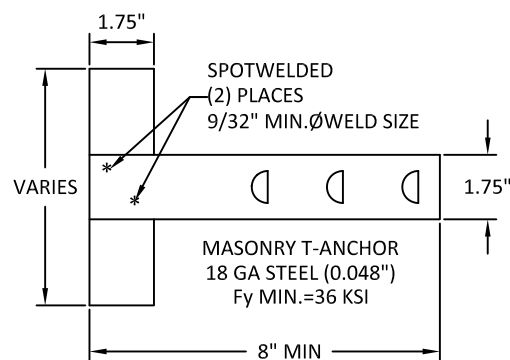
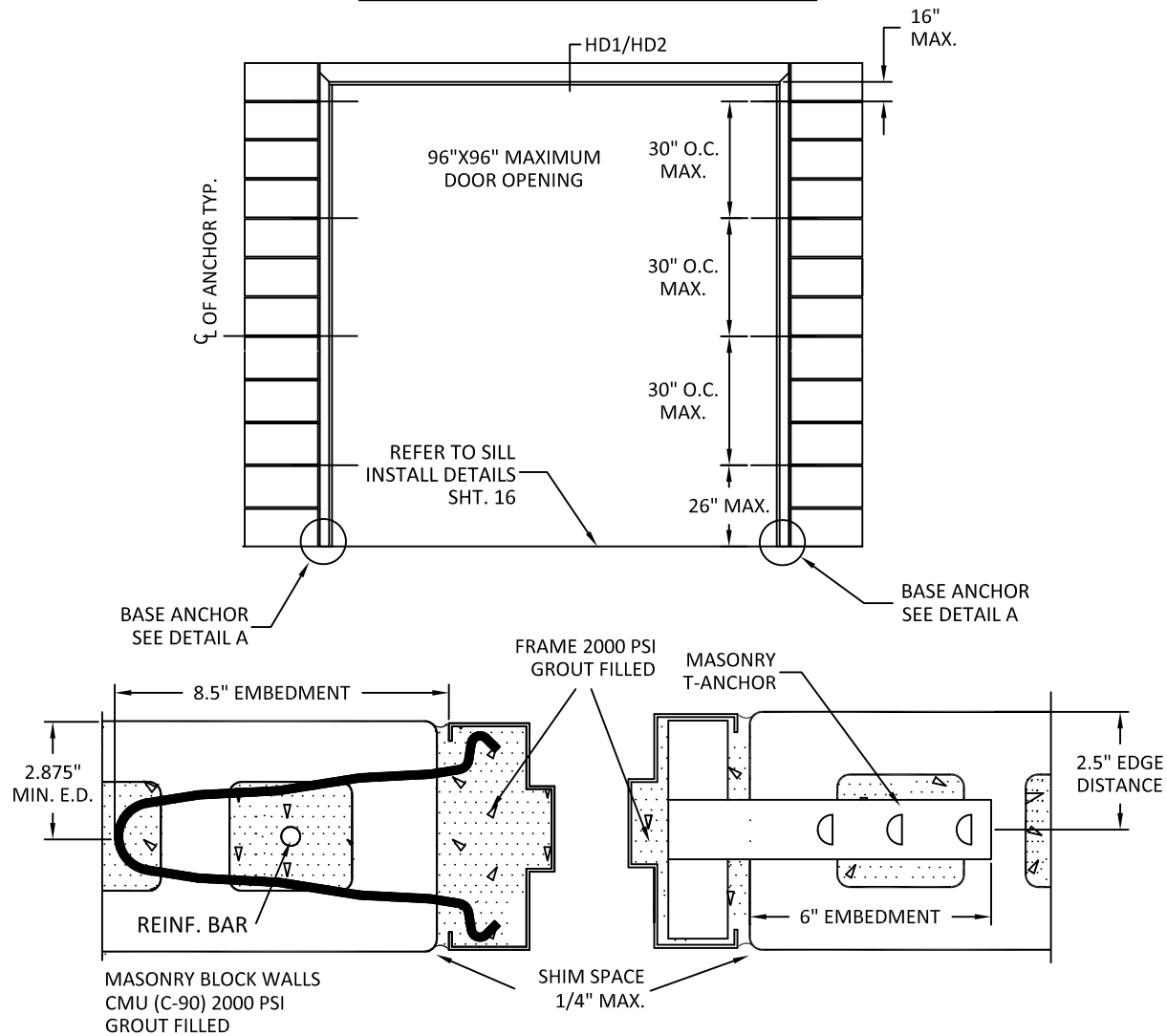


TYPICAL FRAME PROFILE  
DOUBLE RABBET

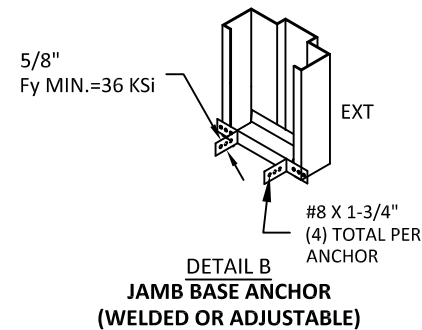
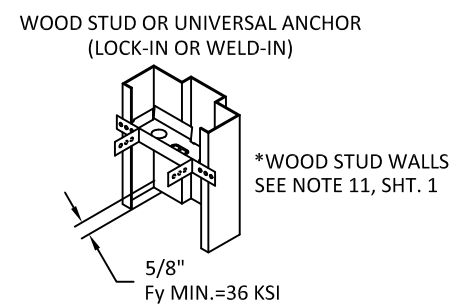
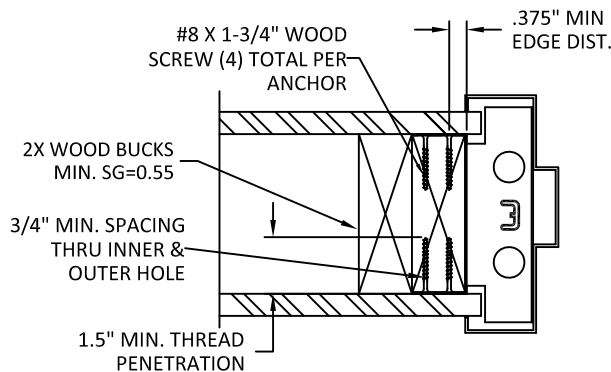
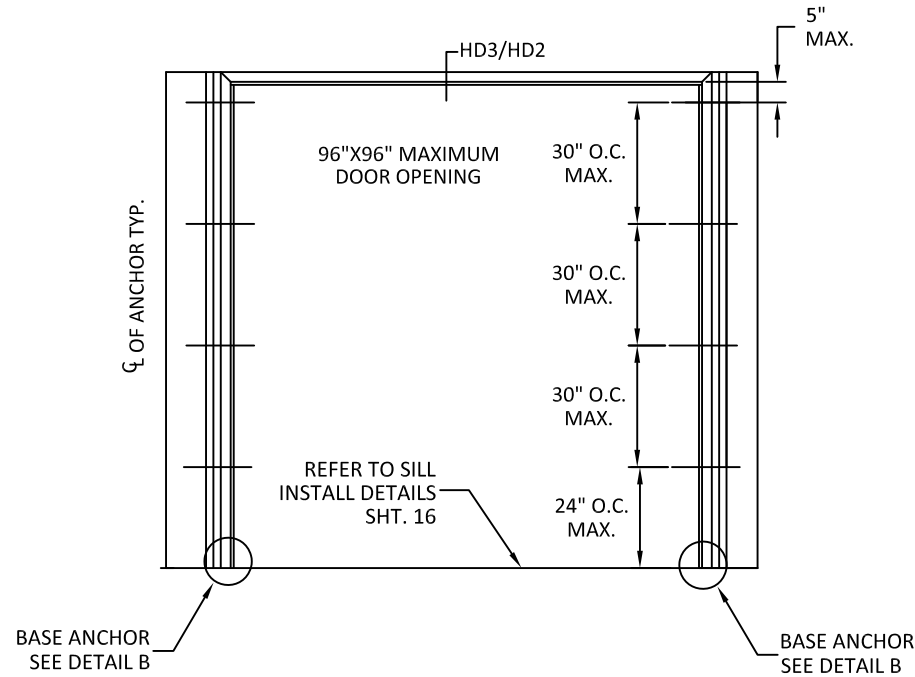
OPTIONAL FRAME PROFILE  
SINGLE RABBET



# **A** WIRE OR T MASONRY ANCHOR INTO GROUT FILLED FRAME AND BLOCK WALL



# **B** WOOD STUD ANCHOR



NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 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 ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

SEE SHEET 25 FOR  
OPTION 2 ANCHOR DETAILS



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

TITLE: LOUVERED OUTSWING/  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

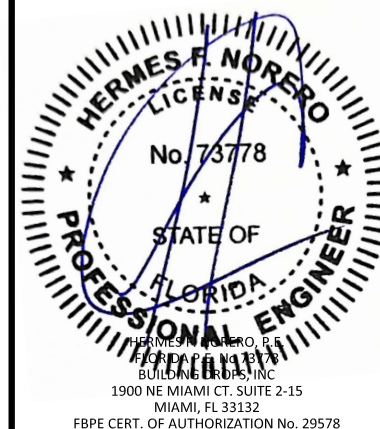
STEELCRAFT: ANCHORS - WIRE OR  
T MASONRY ANCHOR & WOOD STUD

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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FL10356

DATE: 04.20.23

DWG. BY: DI  
CHK. BY: HFN

SCALE: NTS

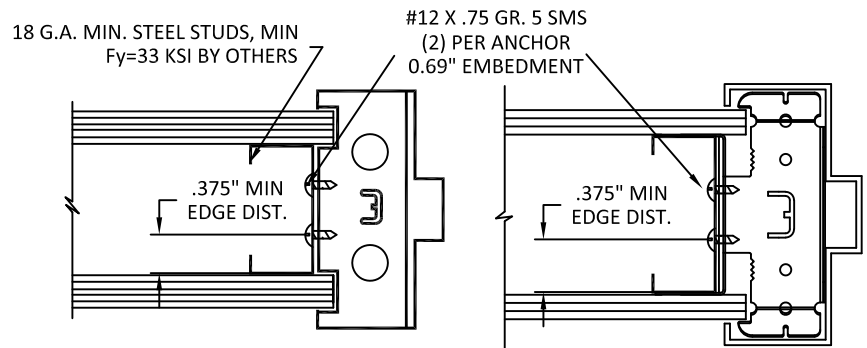
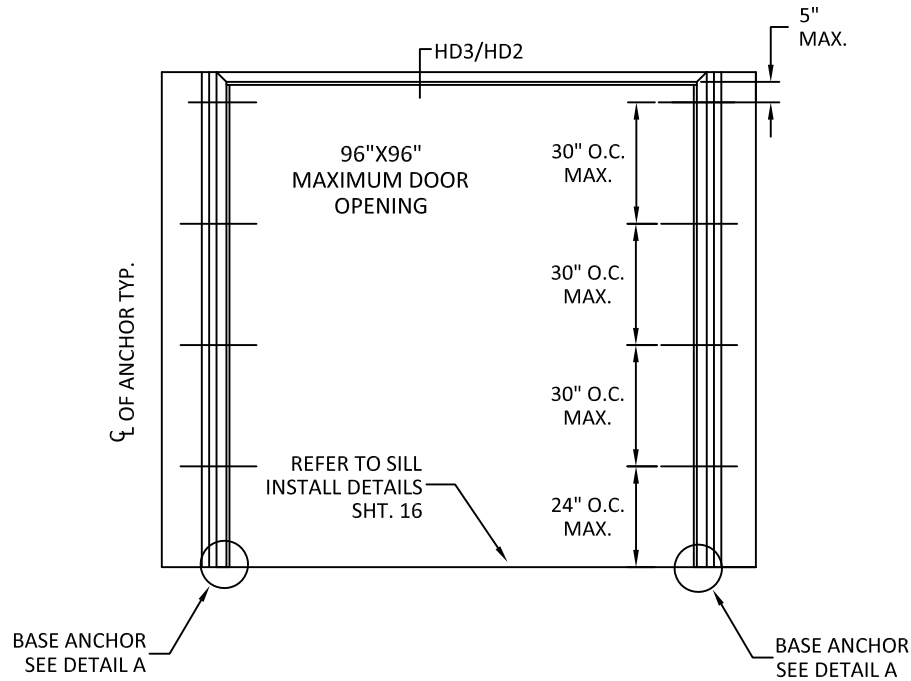
DWG. #: LDDA330

SHEET:

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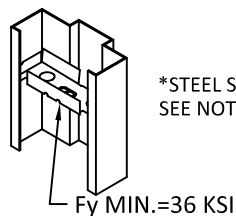
OF 30

# C STEEL STUD ANCHOR

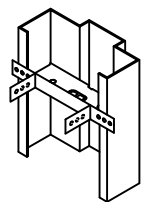


STEEL STUD ANCHOR  
WELD-IN OR LOCK-IN

UNIVERSAL ANCHOR  
WELD-IN OR LOCK-IN

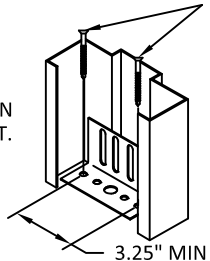


\*STEEL STUD WALLS  
SEE NOTE 11, SHT. 1



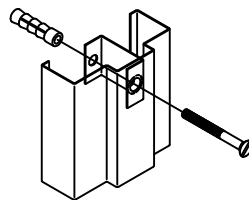
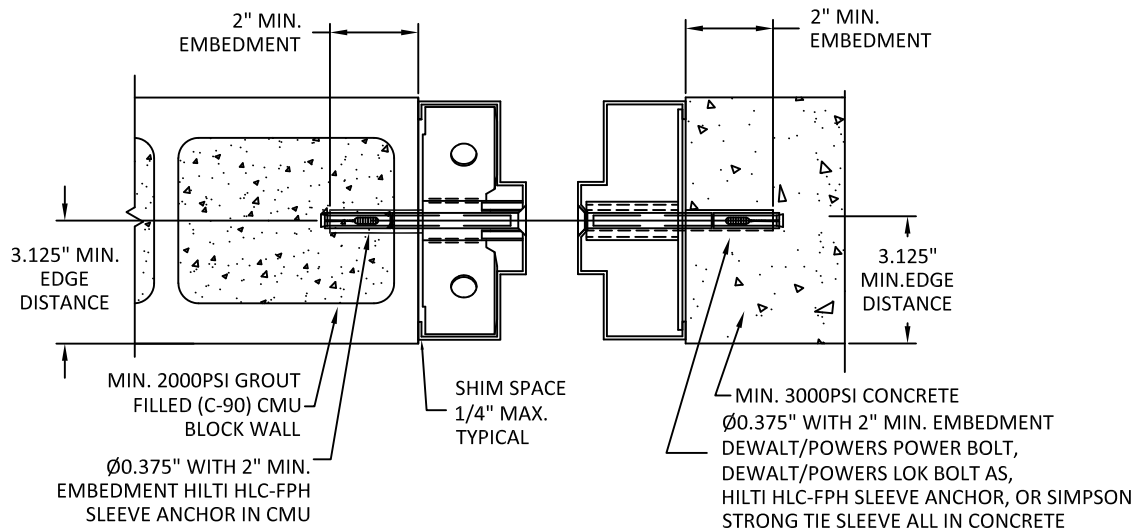
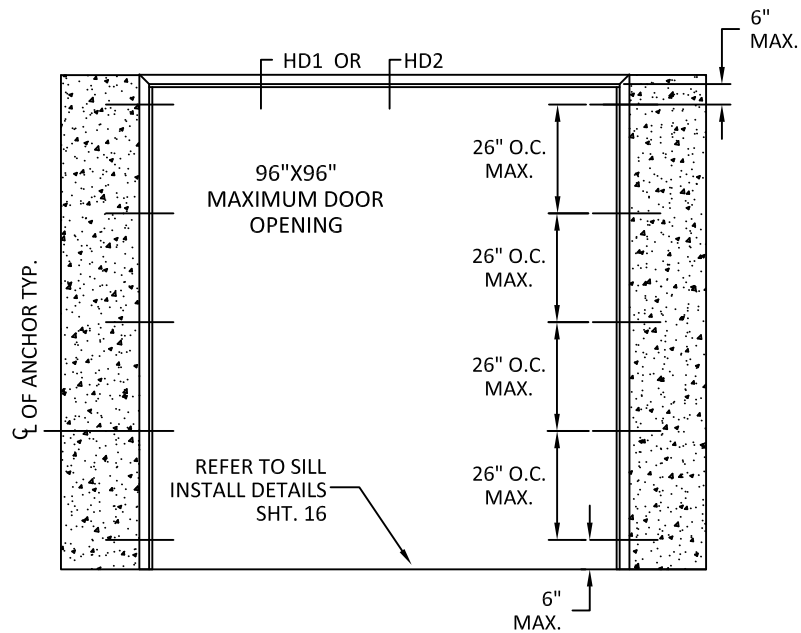
DETAIL A  
JAMB BASE ANCHOR  
(INTO CONCRETE)

2 1/2 MIN  
EDGE DIST.

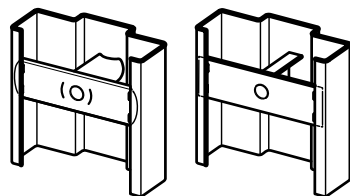


JAMB BASE ANCHOR INTO  
CONCRETE (3 KSI MIN.)  
Ø0.375" WITH 2"  
MIN. EMBEDMENT  
DEWALT/POWERS POWER BOLT,  
DEWALT/POWERS LOK BOLT AS,  
HILTI HLC-FPH SLEEVE ANCHOR,  
SIMPSON STRONG TIE  
SLEEVE-ALL OR 3/8" LAG BOLT  
INTO (2) 2X WOOD SILL (SG=0.55)

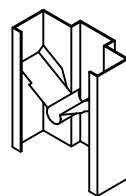
# D EXISTING MASONRY ANCHOR (EMA) INTO CONCRETE WALL OR CMU



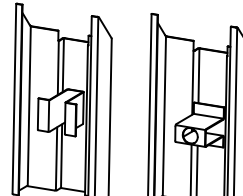
EMA-U ANCHOR



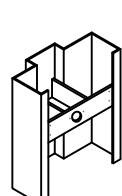
TUBE/CHANNEL &  
PLATE BOLT-IN



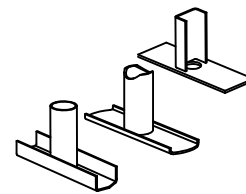
LOCK-IN



EMA ANCHOR



WELD-IN



TUBE & PLATE  
WELD-IN EMA  
ANCHOR

SEE SHEET 26 FOR  
OPTION 2 ANCHOR DETAILS



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

TITLE: LOUVERED OUTSWING/  
INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

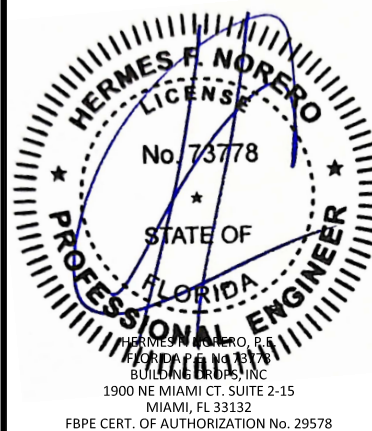
STEELCRAFT: ANCHORS - STEEL STUD &  
EMA INTO CONCRETE OR CMU

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



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FL10356

DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: NTS

DWG. #: LDDA330

SHEET:

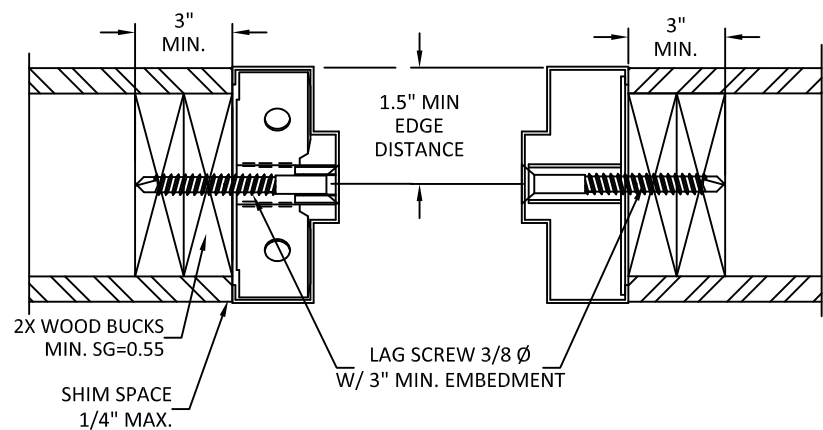
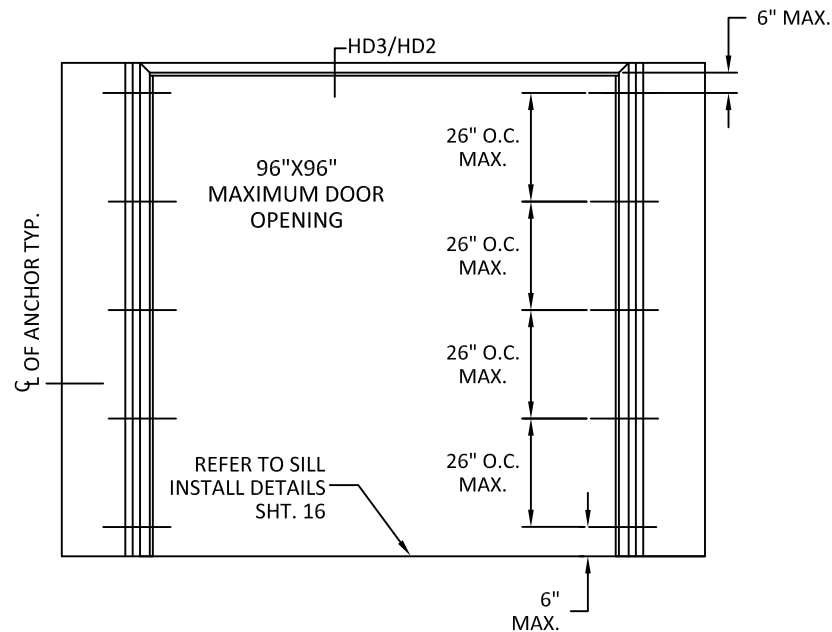
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OF 30

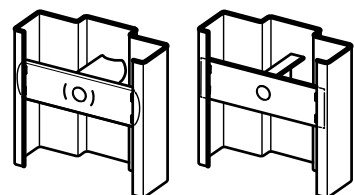
## NOTES:

1. (\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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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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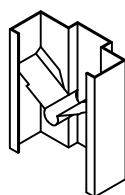
**E** EXISTING MASONRY ANCHOR (EMA)  
WITH LAG BOLT INTO WOOD STUD WALL



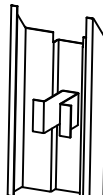
\*WOOD STUD WALLS  
SEE NOTE 11, SHT. 1



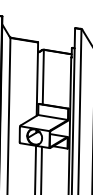
TUBE/CHANNEL &  
PLATE BOLT-IN



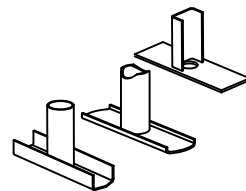
LOCK-IN



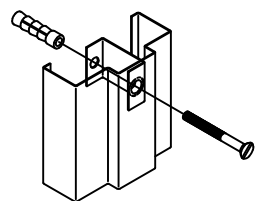
EMA ANCHOR



WELD-IN



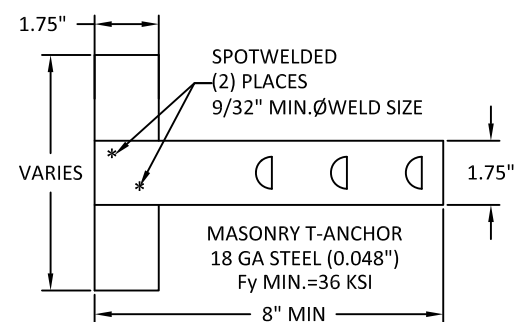
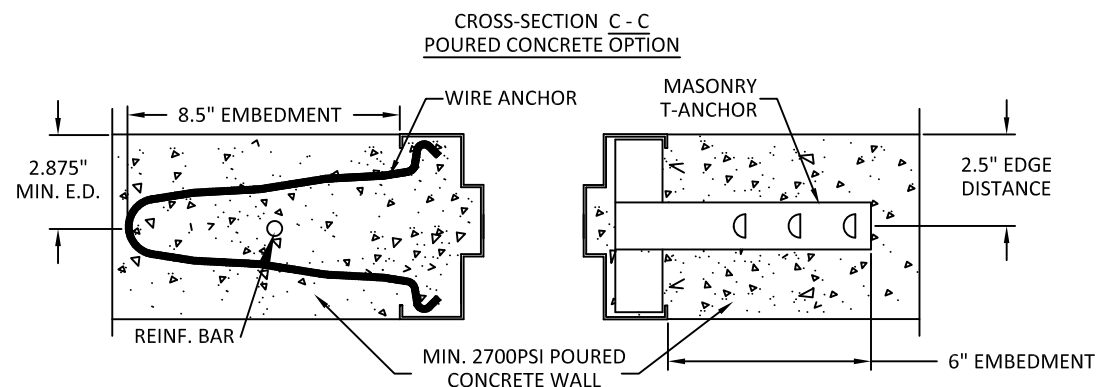
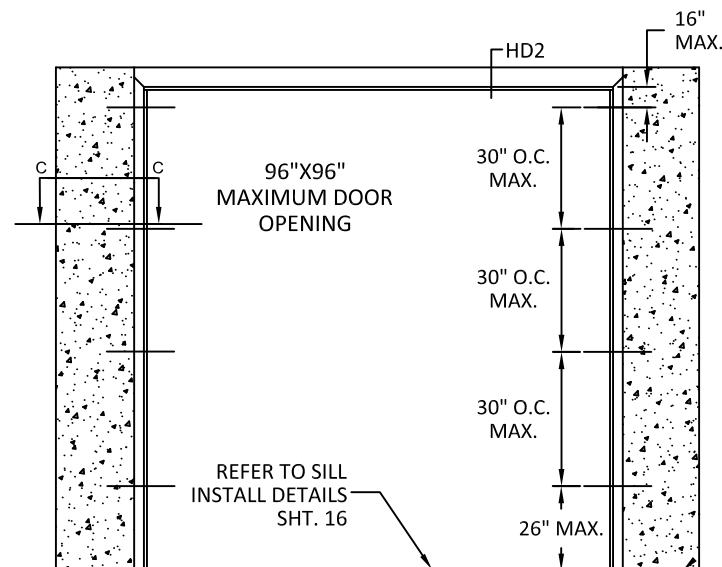
TUBE & PLATE  
WELD-IN EMA  
ANCHOR



EMA-U ANCHOR

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

**F** POURED CONCRETE  
TILT UP WALL



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

SEE SHEET 27 FOR  
OPTION 2 ANCHOR DETAILS



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

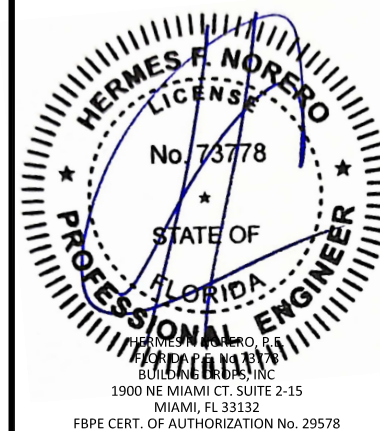
TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)  
STEELCRAFT: ANCHORS - EMA W/ LAG  
BOLT IN WOOD STUD WALL &  
POURED CONCRETE TILT UP WALL

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



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DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: NTS

DWG. #: LDDA330

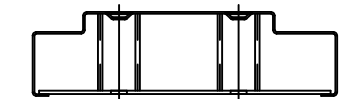
SHEET:

13

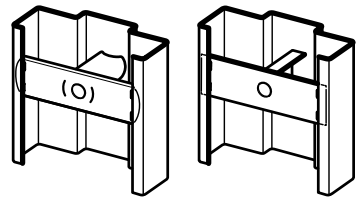
OF 30

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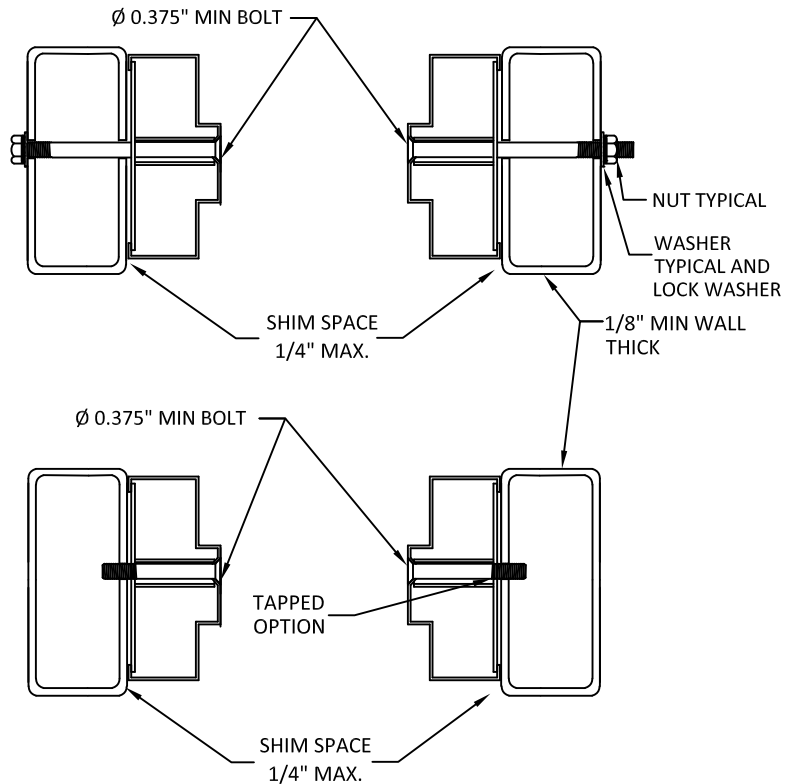
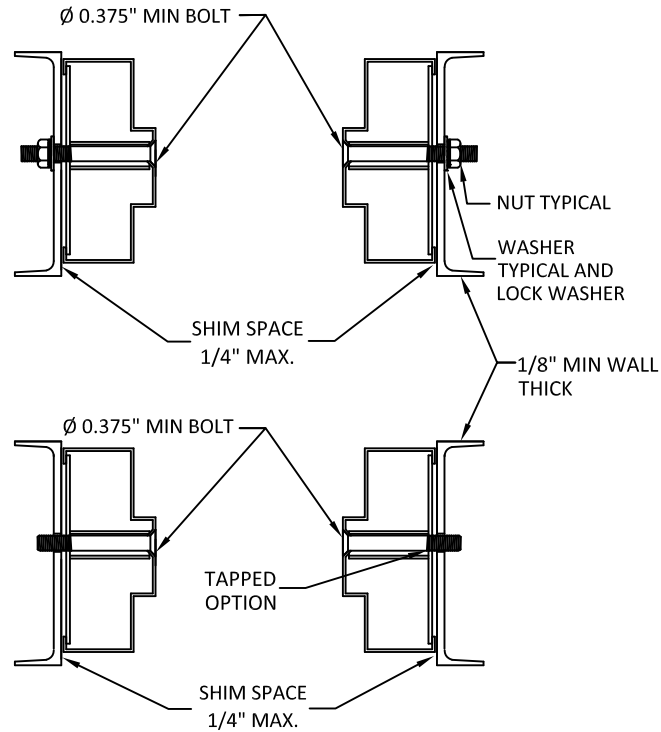
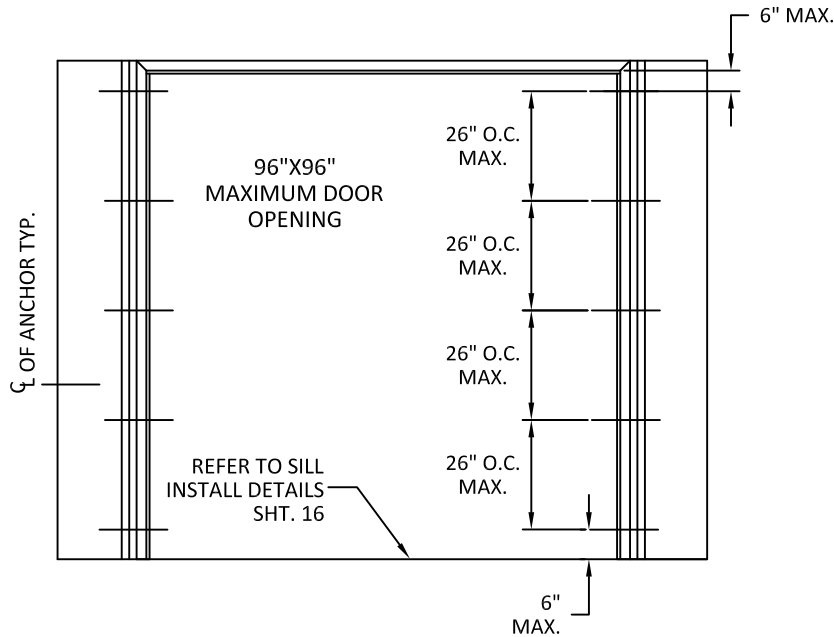
FRAMES BOLTED TO BUILDING STRUCTURE



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 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 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 ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE 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: LOUVERED OUTSWING/  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-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

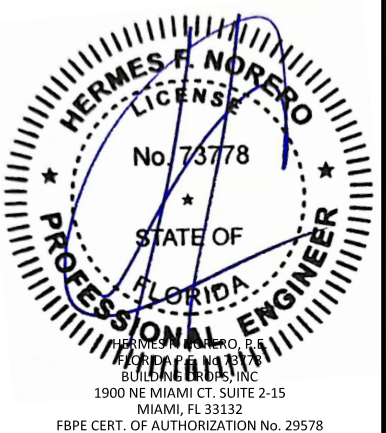
FAX: (954)744-4738

WEB: www.buildingdrops.com



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.06.25 |

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FL10356

DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: NTS

DWG. #: LDDA330

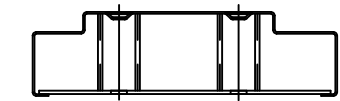
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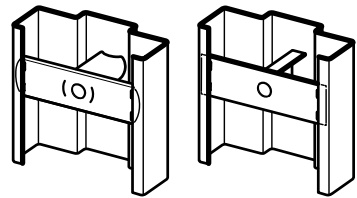
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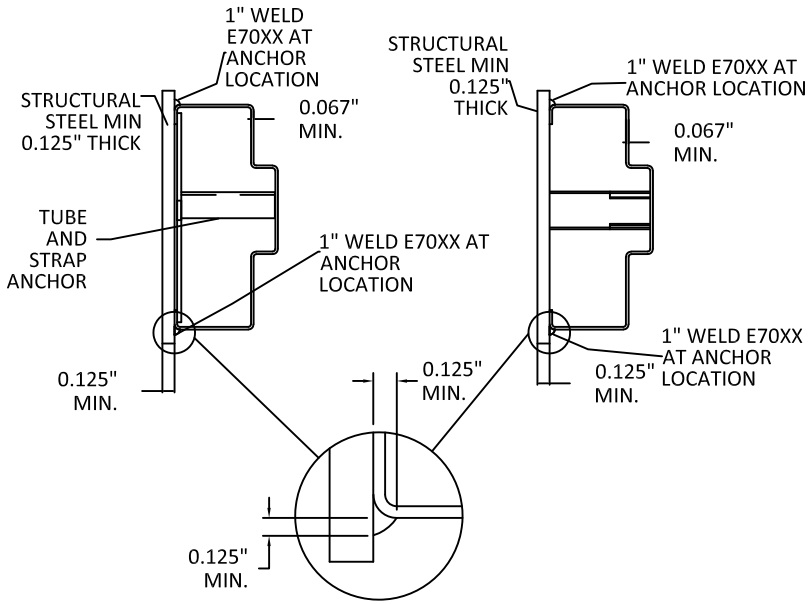
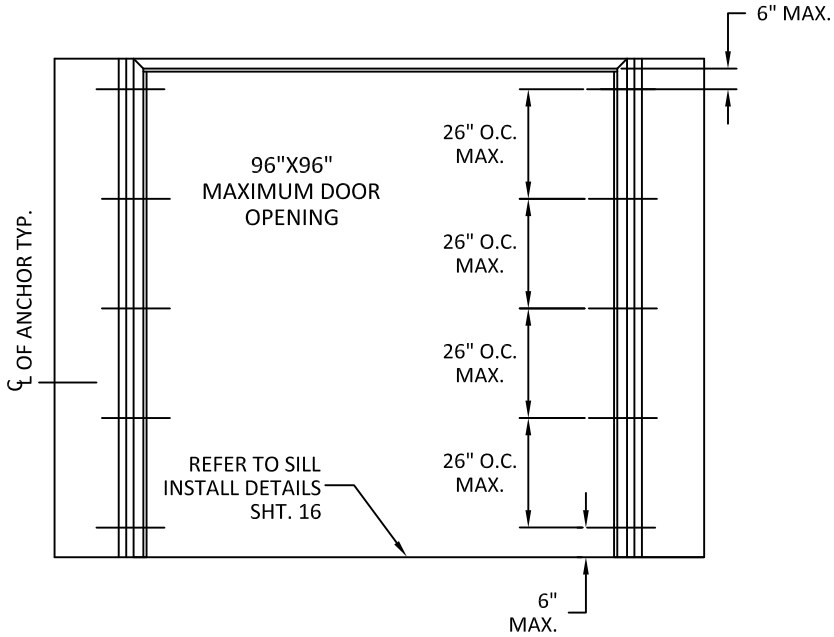
WELDED ANCHOR  
SHIM OR STEEL BUILDING  
STRUCTURE



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 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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PH: (317) 715-4073

TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)  
STEELCRAFT: 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  
FAX: (954)744-4738  
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DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: NTS

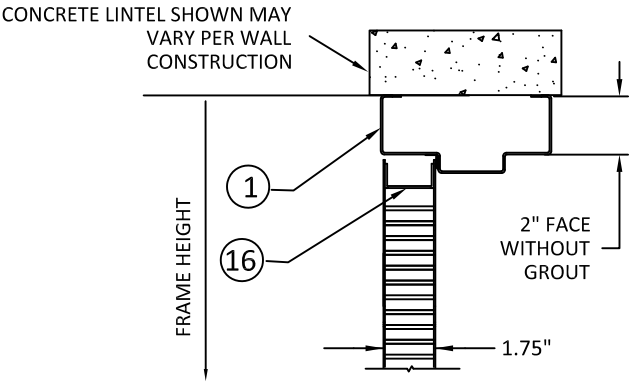
DWG. #: LDDA330

SHEET:

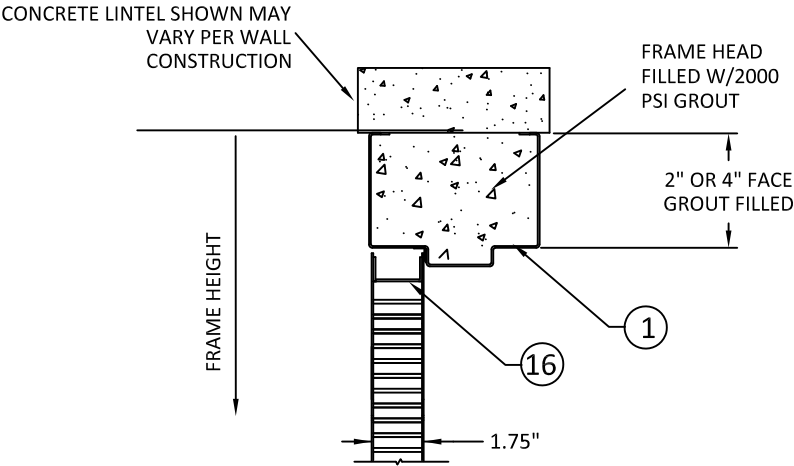
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OF 30

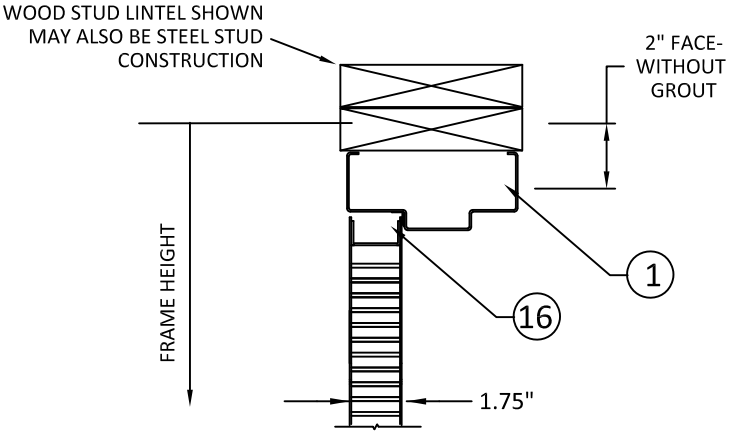
SEE SHEET 30 FOR  
OPTION 2 ANCHOR DETAILS



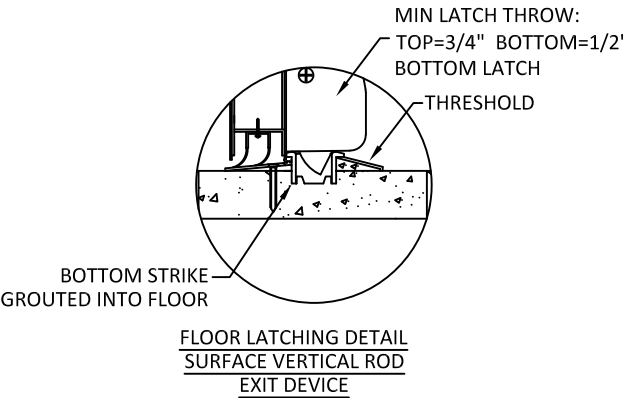
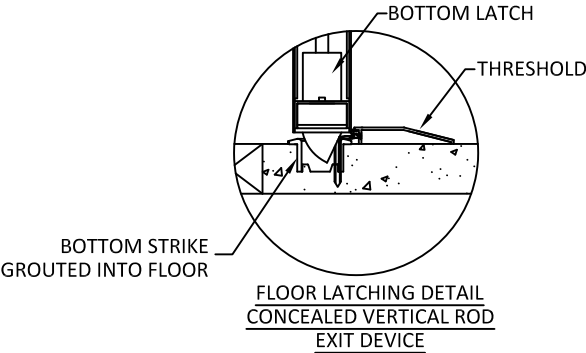
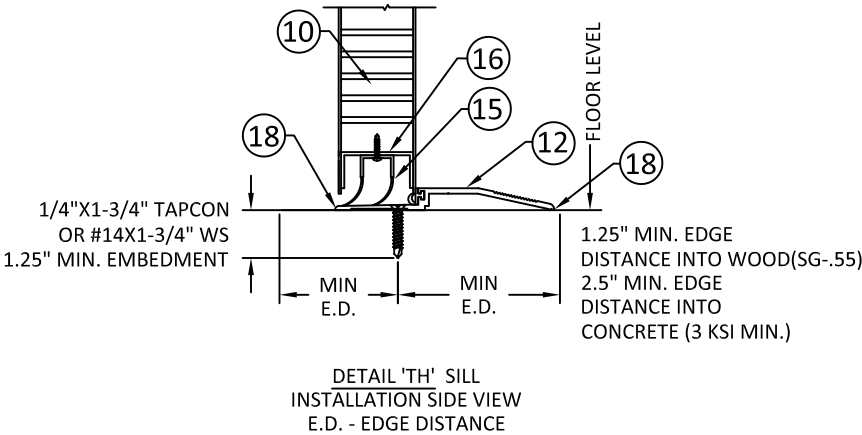
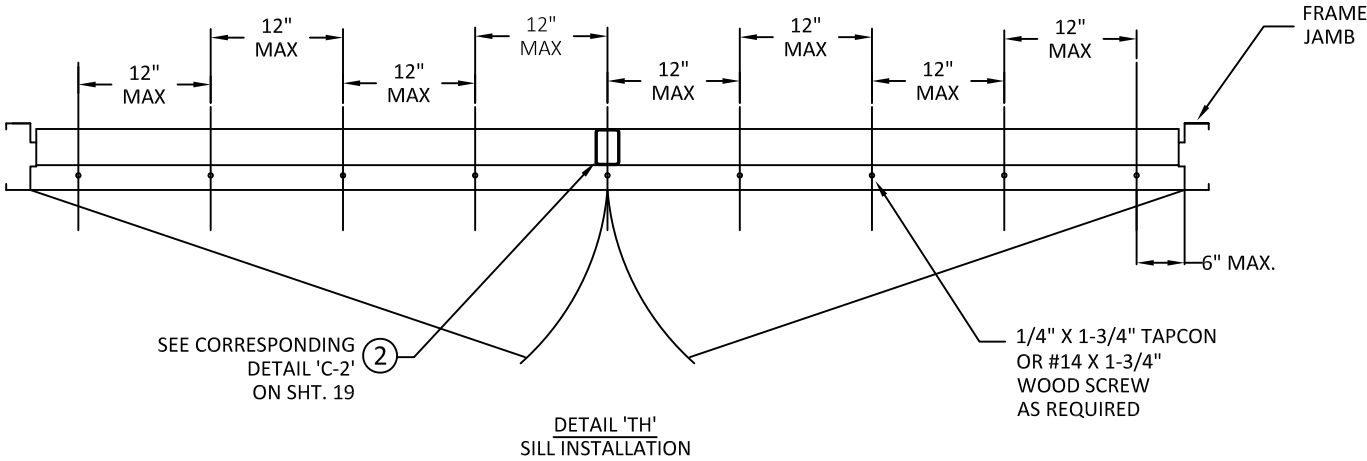
HD1 - FRAME HEAD SECTION



HD2 - FRAME HEAD SECTION



HD3 - FRAME HEAD SECTION



NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 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 ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE 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: LOUVERED OUTSWING/  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)  
STEELCRAFT: FRAME HEAD  
& SILL ANCHOR DETAILS

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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FL10356

DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: NTS

DWG. #: LDDA330

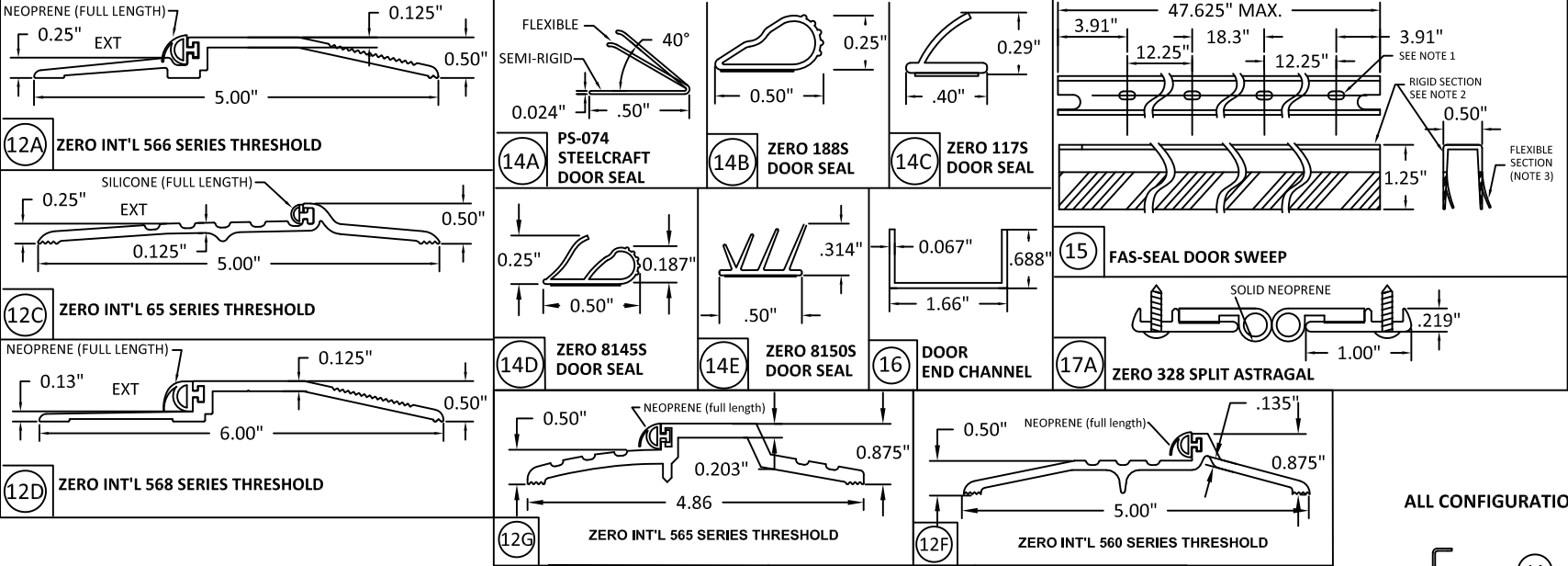
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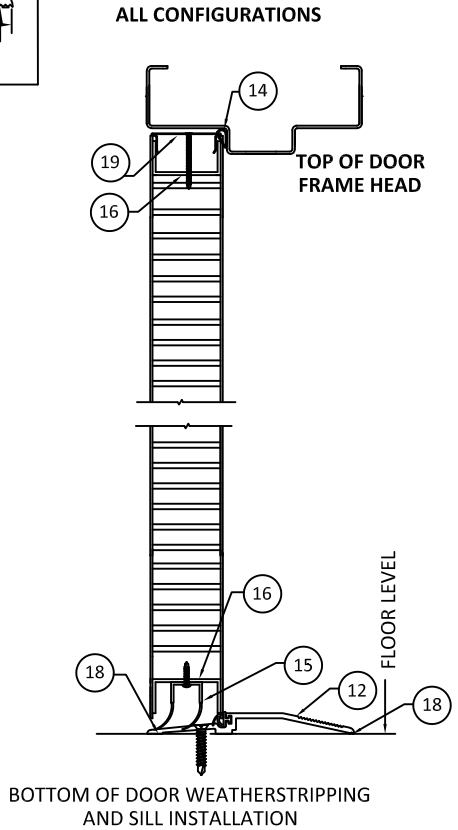
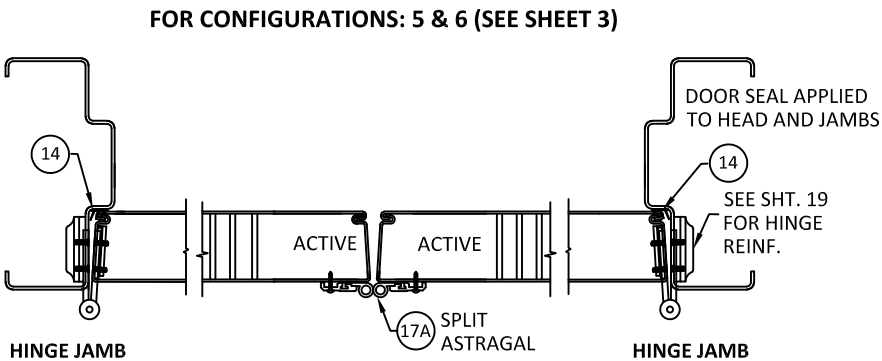
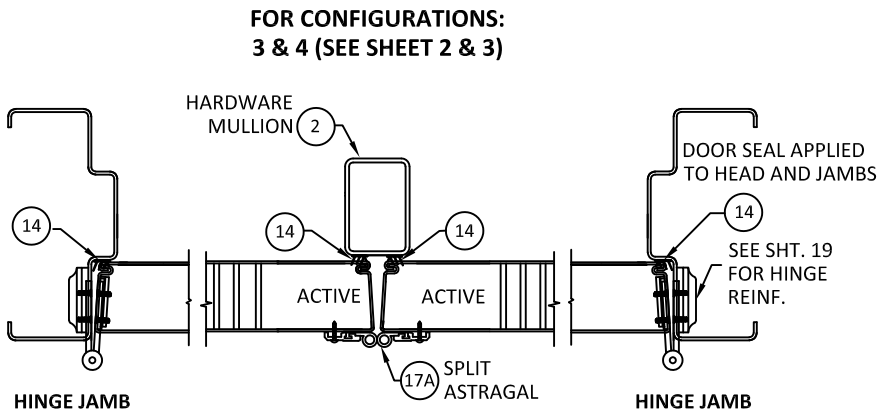
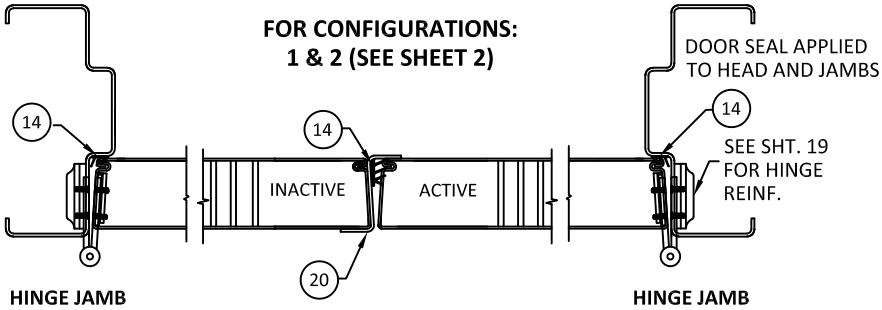
OF 30

TABLE 6.1 NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS

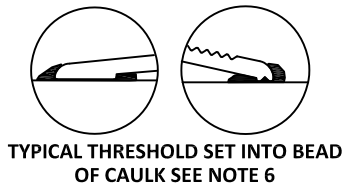
| ITEM NUMBER | MODEL NO./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 12          | 12A 566 THRESHOLD      | ZERO INT'L |
|             | 12C 65 THRESHOLD       | ZERO INT'L |
|             | 12D 568 THRESHOLD      | ZERO INT'L |
|             | 12F 560 THRESHOLD      | ZERO INT'L |
|             | 12G 565 THRESHOLD      | ZERO INT'L |
| 14          | 14A PS074 DOOR SEAL    | STEELCRAFT |
|             | 14B 188S DOOR SEAL     | ZERO INT'L |
|             | 14C 117S DOOR SEAL     | ZERO INT'L |
|             | 14D 8145S DOOR SEAL    | ZERO INT'L |
|             | 14E 8150S DOOR SEAL    | ZERO INT'L |
|             | 14F 8042S DOOR SEAL    | ZERO INT'L |
| 15          | FAS-SEAL SWEEP         | STEELCRAFT |
| 16          | END CHANNEL            | STEELCRAFT |
| 19          | 19A DOOR TOP CAP       | STEELCRAFT |
|             | 19B FLUSH TOP CAP      | STEELCRAFT |



WHEN WATER INFILTRATION IS NOT REQUIRED -  
MAXIMUM DESIGN PRESSURE 50 PSF FOR  
MAXIMUM DOOR SIZE OF 8'-0" X 8'-0"



- 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 ASSEMBLIES REQUIRE FAS-SEAL DOOR SWEEP (15), DOOR SEAL (14A, 14B, 14C, 14D, 14E) AND THRESHOLD (12A, 12C, 12D) AS APPLICABLE, FOR ALL INSTALLATIONS.
  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 ASSEMBLIES REQUIRE DOOR SEAL (14) AND THRESHOLD (12) AS APPLICABLE
  8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE
  9. CONFIGURATION SHOWN APPLY TO BOTH INSWING AND OUTSWING.



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

TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

GASKETING DETAILS FOR  
NON WATER INFILTRATION

PREPARED BY:

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

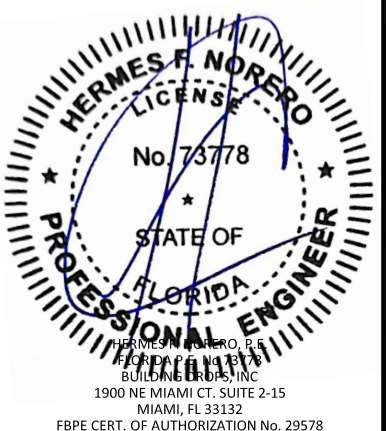
PH: (954)399-8478  
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| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
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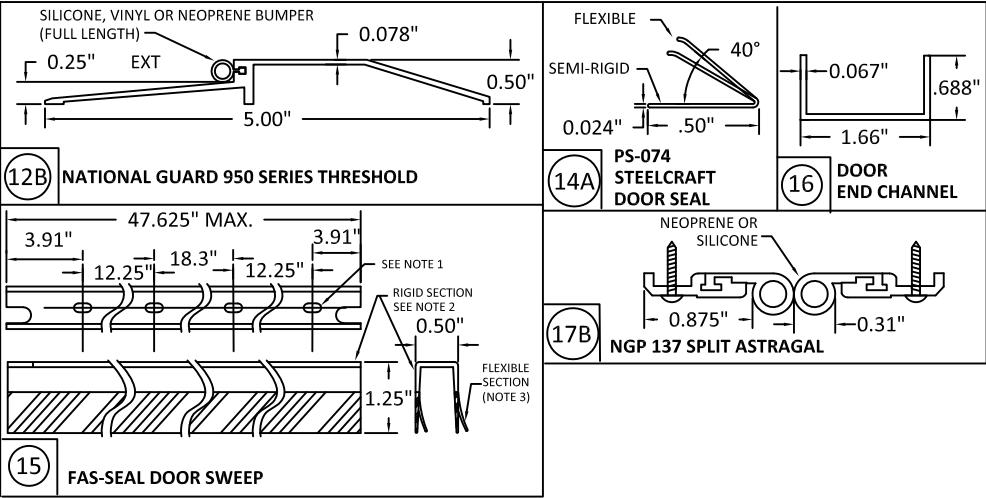


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|-----------------|--------------|
| FL10356         |              |
| DATE: 04.20.23  |              |
| DWG. BY: DI     | CHK. BY: HFN |
| SCALE: NTS      |              |
| DWG. #: LDDA330 |              |
| SHEET: 17       |              |
| OF 30           |              |

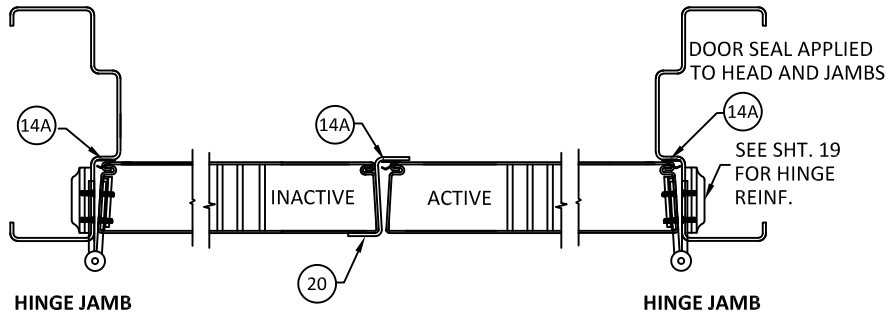
TABLE 6.2 NON WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD

| ITEM NUMBER | MODEL NO./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 12B         | 950 THRESHOLD          | NGP        |
| 14A         | PS074 DOOR SEAL        | STEELCRAFT |
| 15          | FAS-SEAL SWEEP         | STEELCRAFT |
| 16          | END CHANNEL            | STEELCRAFT |
| 17B         | 137 SPLIT ASTRAGAL     | NGP        |

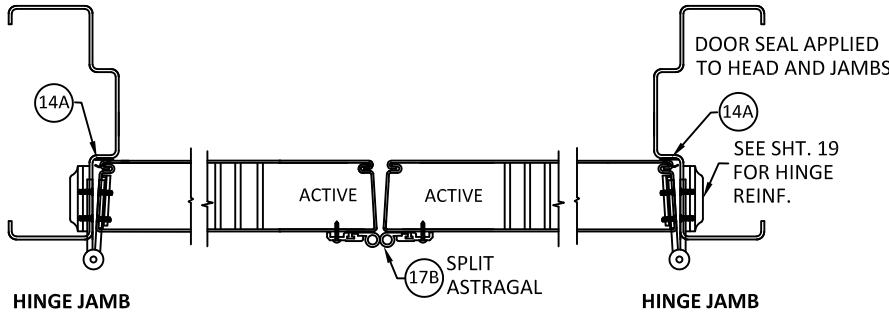
WHEN WATER INFILTRATION IS NOT REQUIRED -  
MAXIMUM DESIGN PRESSURE 50 PSF FOR MAXIMUM  
DOOR SIZE OF 8'-0" X 8'-0"



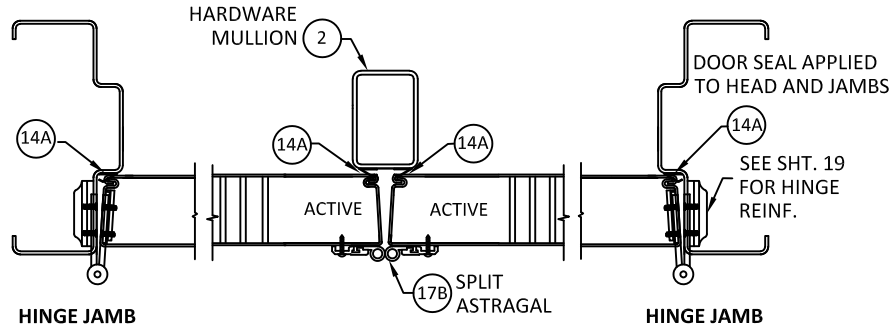
FOR CONFIGURATIONS: 1 & 2 (SEE SHEET 2)



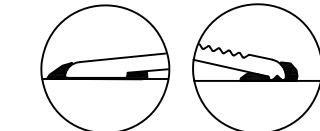
FOR CONFIGURATIONS: 5 & 6 (SEE SHEET 3)



FOR CONFIGURATIONS: 3 & 4 (SEE SHEET 2 & 3)

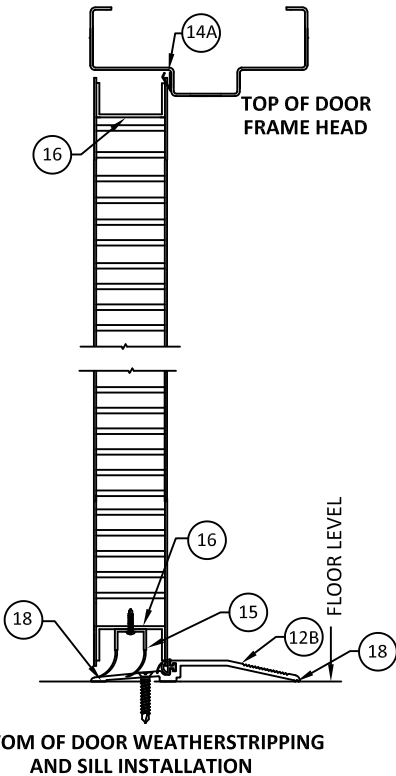


- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
  3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
  4. STEELCRAFT ASSEMBLIES REQUIRE FAS-SEAL DOOR SWEEP (15), DOOR SEAL (14A, 14B, 14C, 14D, 14E) AND THRESHOLD (12B) AS APPLICABLE, FOR ALL INSTALLATIONS.
  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 ASSEMBLIES REQUIRE DOOR SEAL (14) AND THRESHOLD (12) AS APPLICABLE
  8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE
  9. CONFIGURATION SHOWN APPLY TO BOTH INSWING AND OUTSWING.



TYPICAL THRESHOLD SET INTO BEAD OF  
CAULK SEE NOTE 6

ALL CONFIGURATIONS



BOTTOM OF DOOR WEATHERSTRIPPING  
AND SILL INSTALLATION



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

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SYSTEMS (NON-HVHZ)(NON-IMPACT)

GASKETING DETAILS FOR  
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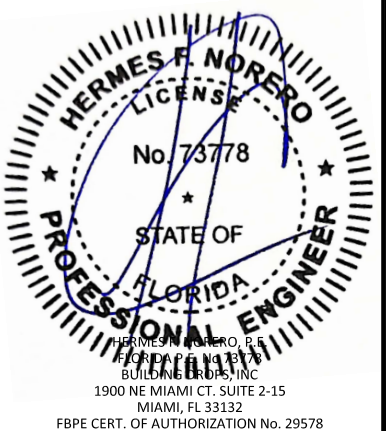
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WEB: www.buildingdrops.com



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FL10356

DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: NTS

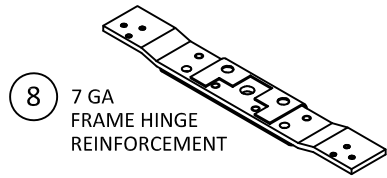
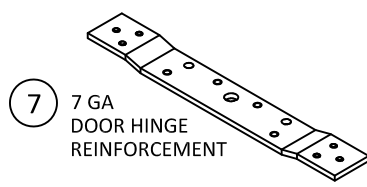
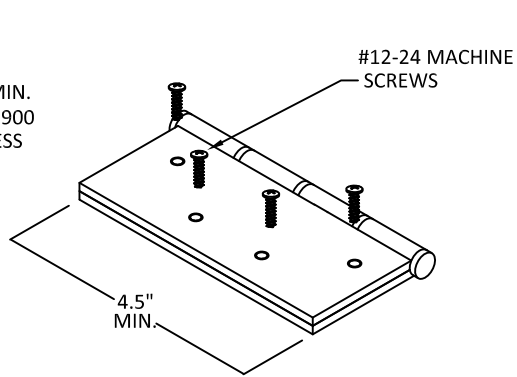
DWG. #: LDDA330

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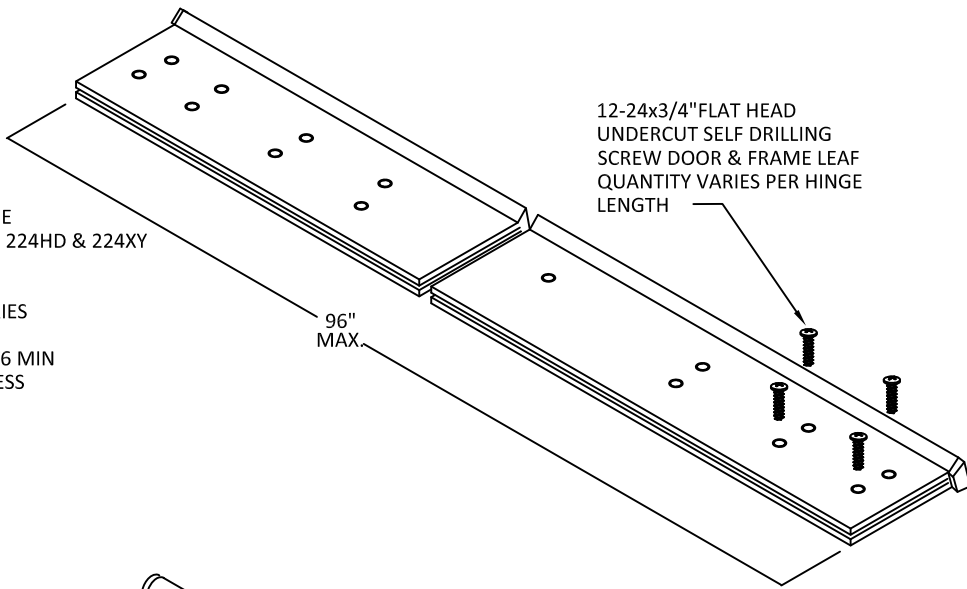
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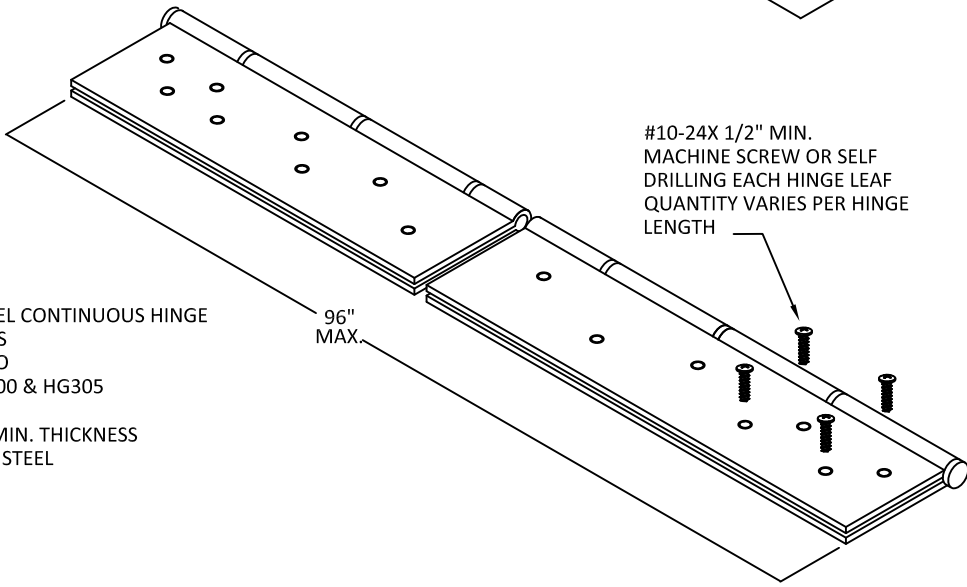
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STEEL, STAINLESS STEEL, OR BRASS  
BUTT HINGE 4.5" X 4.5" STD. WT. MIN.  
IVES 5BB1/3CB1 STANLEY FBB179/1900  
HAGER BB1279 .134" MIN. THICKNESS



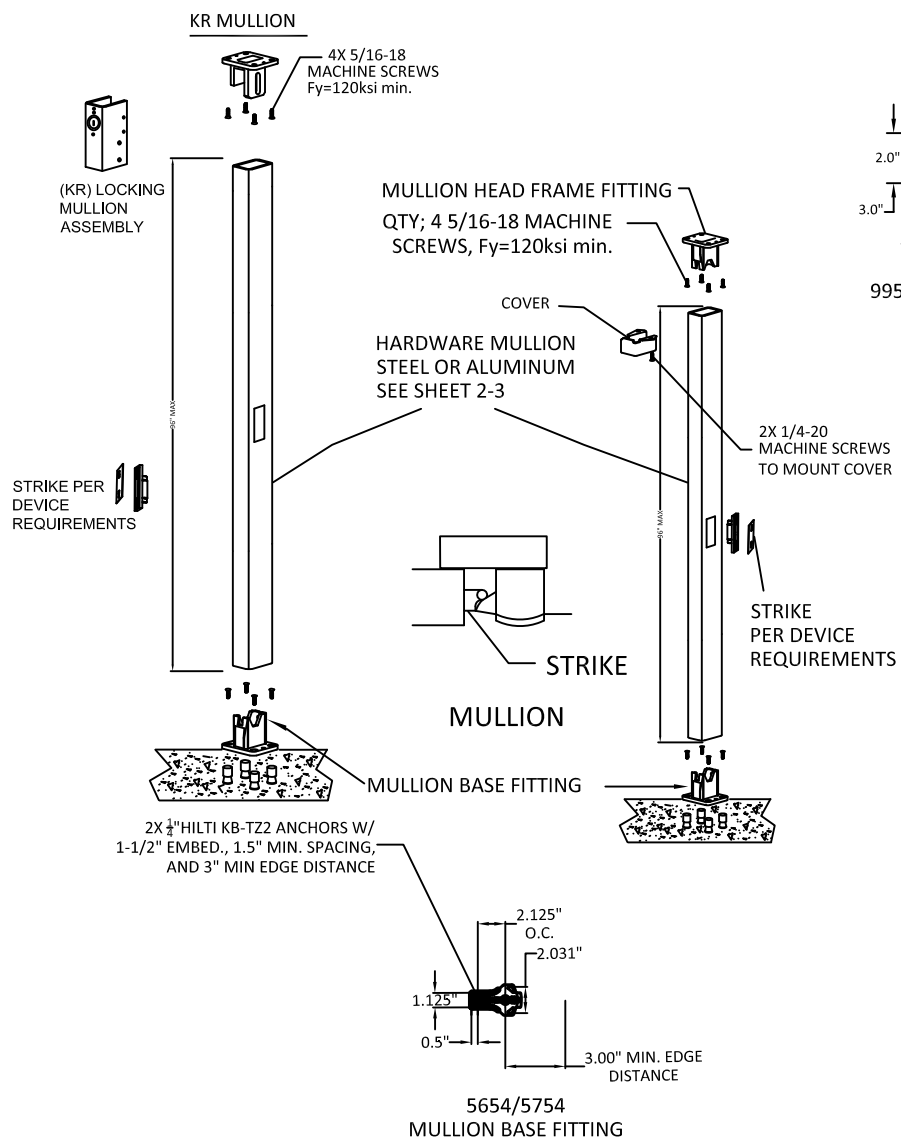
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CONTINUOUS HINGE  
IVES 112HD, 112XY, 224HD & 224XY  
STANLEY 661HD  
SELECT SL11HD  
PEMCO FM\_HD SERIES  
HAGER 780-224HD  
ALUMINUM 6036-T6 MIN  
.110" MIN. THICKNESS



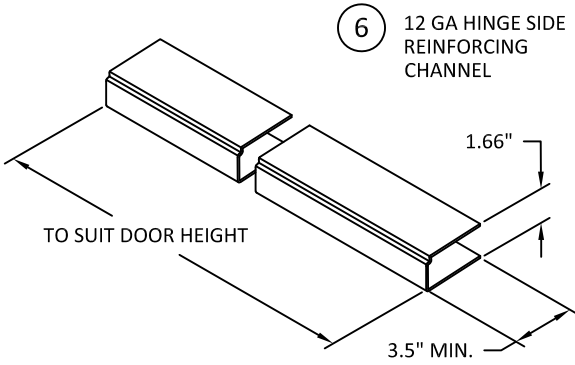
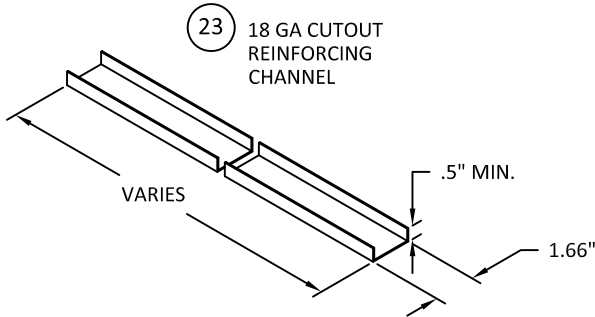
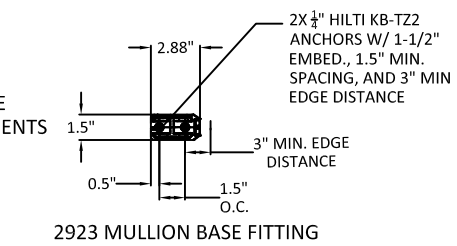
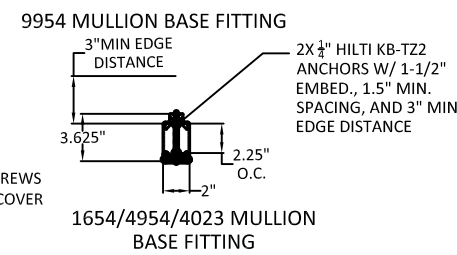
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STAINLESS STEEL CONTINUOUS HINGE  
IVES 700, 700CS  
HAGER 790-900  
MARKAR FM-300 & HG305  
ABH A-500  
.075" (14GA.) MIN. THICKNESS  
304 STAINLESS STEEL



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. REINFORCE DOOR FOR CONTINUOUS HINGE MANUFACTURERS RECOMMENDATION. FRAME DOES NOT REQUIRE ANY ADDITIONAL REINFORCEMENT.



ALLOWABLE ANCHOR TYPES  
ARE: 4X 1/4" DEWALT/POWERS  
SMART DI+ EXPANSION  
ANCHORS WITH MIN 1"  
EMBEDMENT AND 2.8" EDGE  
DISTANCE IN 3000 PSI  
CONCRETE  
OR  
4X 1/4" HILTI KB-TZ2 (CS OR SS)  
1-1/2" EMBEDMENT WITH MIN  
3.25" EDGE DISTANCE IN 4000  
PSI CONCRETE  
OR  
4X 1/4" CS SIMPSON TITEN HD  
(316 SS) SCREW ANCHOR WITH  
MIN 2.8" EDGE DISTANCE IN  
3000 PSI CONCRETE



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

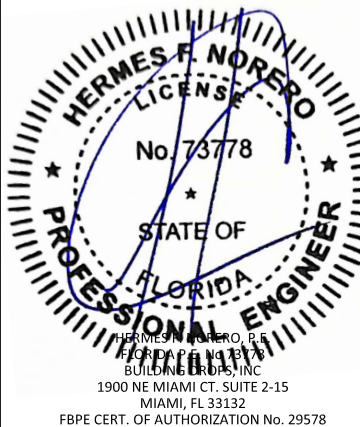
TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)  
HINGES, MULLIONS, CHANNELS,  
& STRIKE REINFORCEMENTS

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     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.06.25 |

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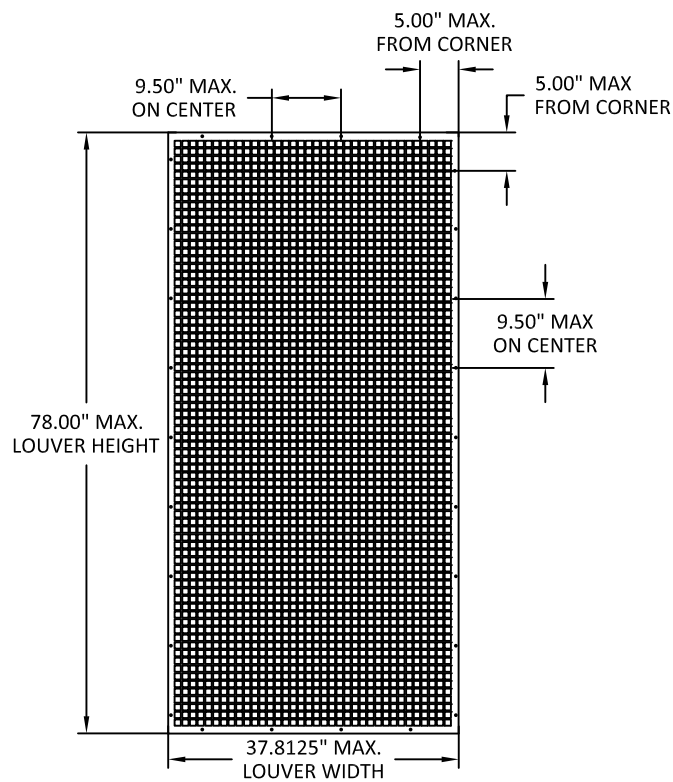
DATE: 04.20.23

DWG. BY: DI CHK. BY: HFN

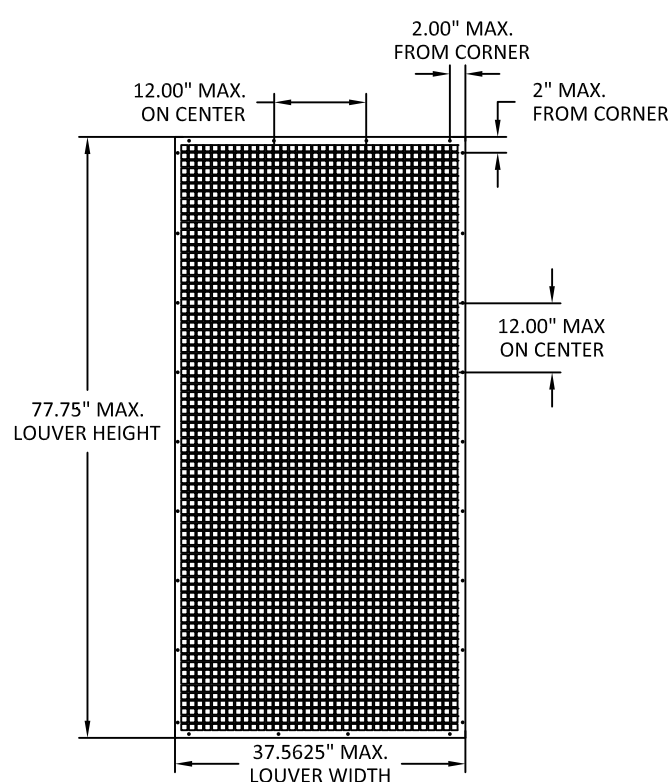
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DWG. #: LDDA330

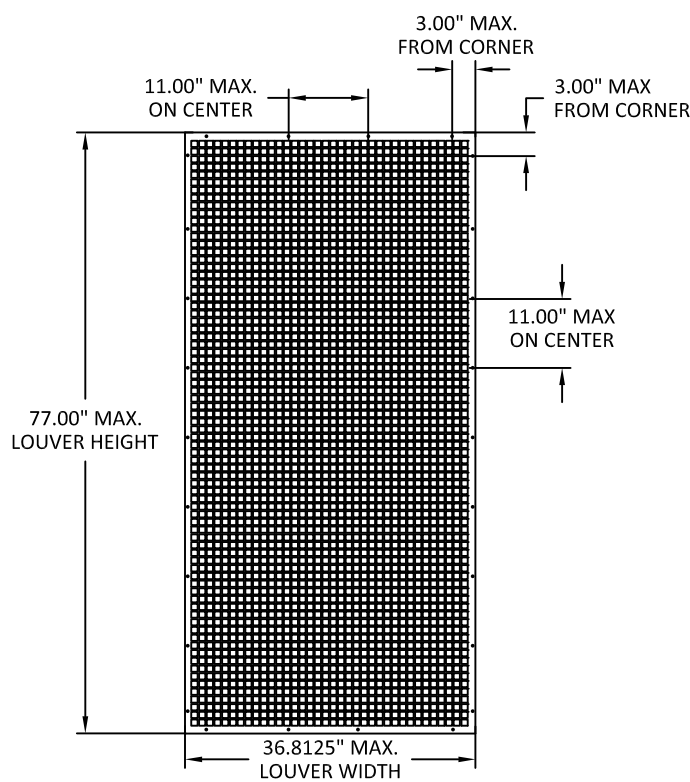
SHEET: 19 OF 30



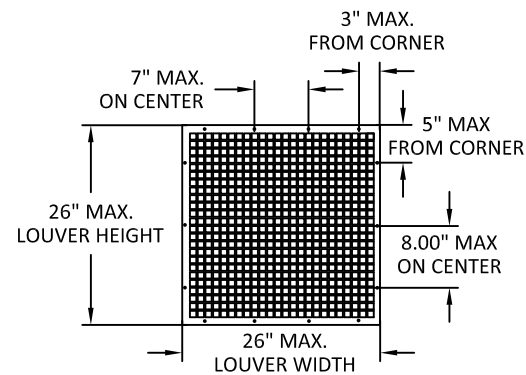
ANEMOSTAT  
SECURITY LOUVER  
PLSL



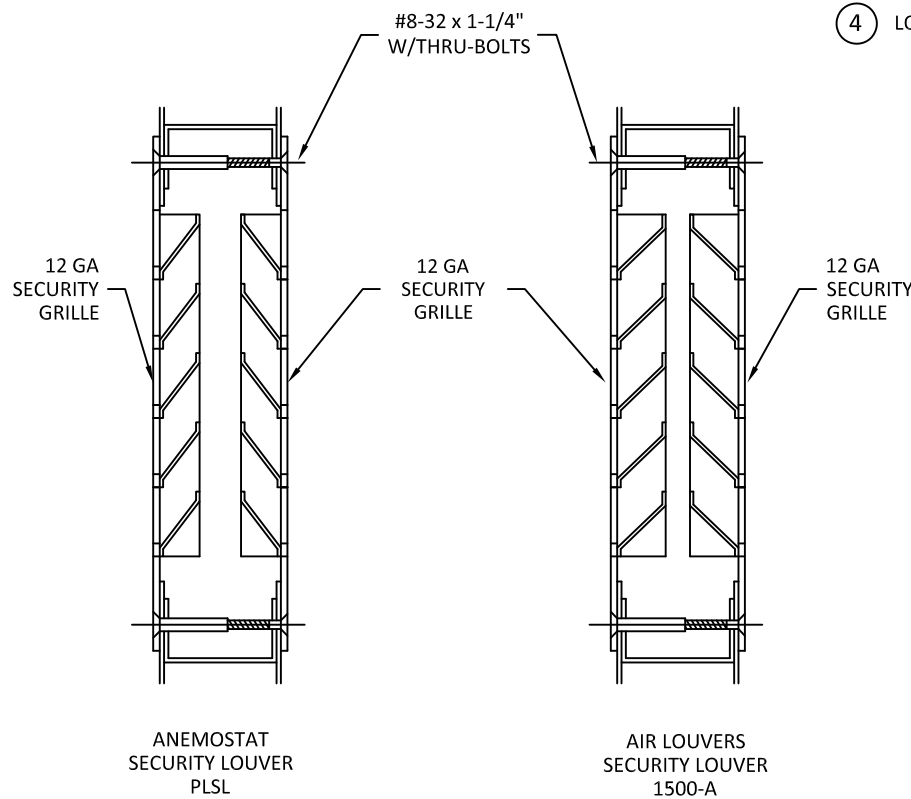
AIR LOUVERS  
SECURITY LOUVER  
1500-A



NATIONAL GUARD  
SECURITY LOUVER  
L-VRSG-2

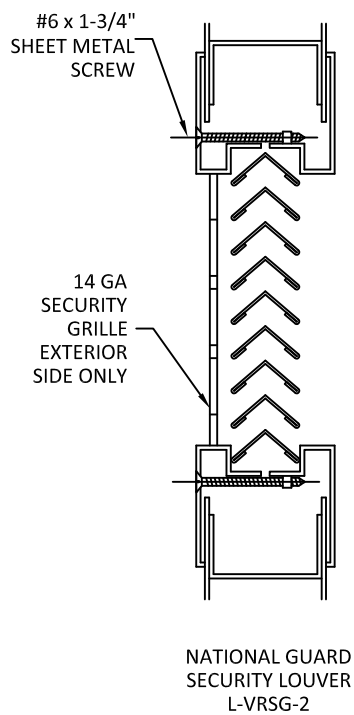


ANEMOSTAT  
FUSIBLE LINK  
SECURITY LOUVER  
FLDL-UL-SG1  
OR FLDL-UL-SG2

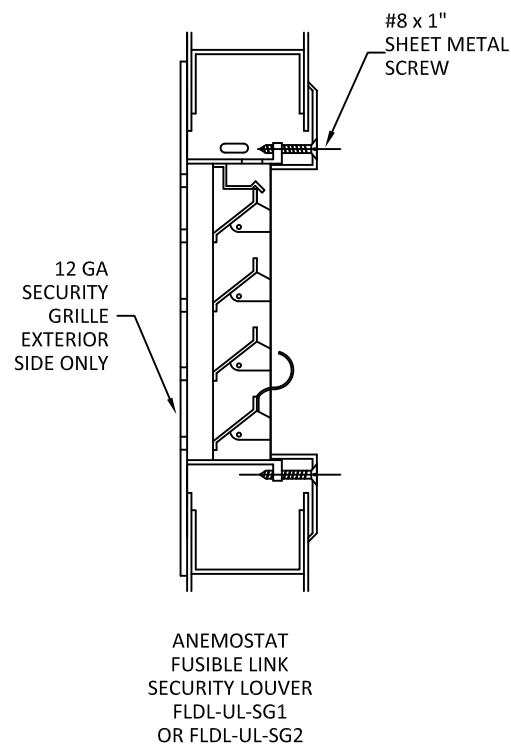


ANEMOSTAT  
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PLSL

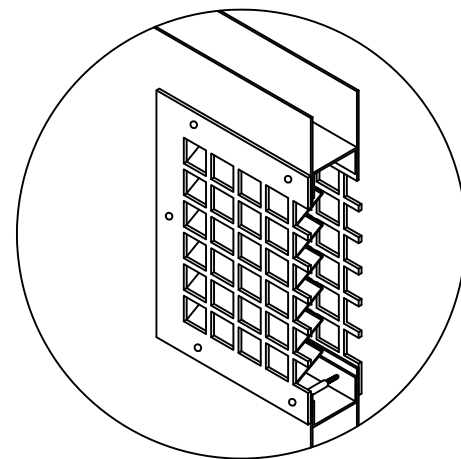
AIR LOUVERS  
SECURITY LOUVER  
1500-A



NATIONAL GUARD  
SECURITY LOUVER  
L-VRSG-2



ANEMOSTAT  
FUSIBLE LINK  
SECURITY LOUVER  
FLDL-UL-SG1  
OR FLDL-UL-SG2



SECURITY LOUVER DETAIL  
LOUVERS: NATIONAL GUARD L-VRSG-2  
AIR LOUVERS 1500-A  
ANEMOSTAT PLSL  
ANEMOSTAT FLDL-UL-SG1 OR SG2

- NOTES:
1. SCREW SPACING MAY VARY WITH LOUVER HEIGHT AND WIDTH.
  2. MAXIMUM LOUVER SIZE VARIES BASED ON DOOR SIZE AND MANUFACTURER'S LIMITATIONS.
  3. CUT OUT REINFORCEMENT CHANNEL MAY BE INSTALLED INVERTED OR FLUSH.



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PH: (317) 715-4073

TITLE: LOUVERED OUTSWING/  
INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

LOUVER OPTIONS

PREPARED BY:

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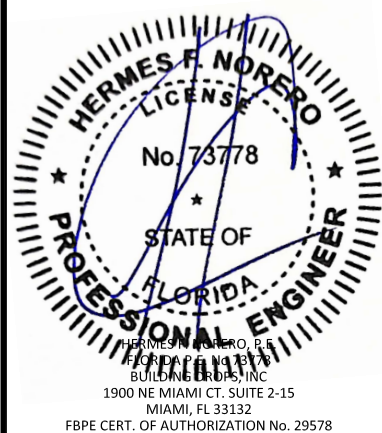
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DWG. BY:  
DI

CHK. BY:  
HFN

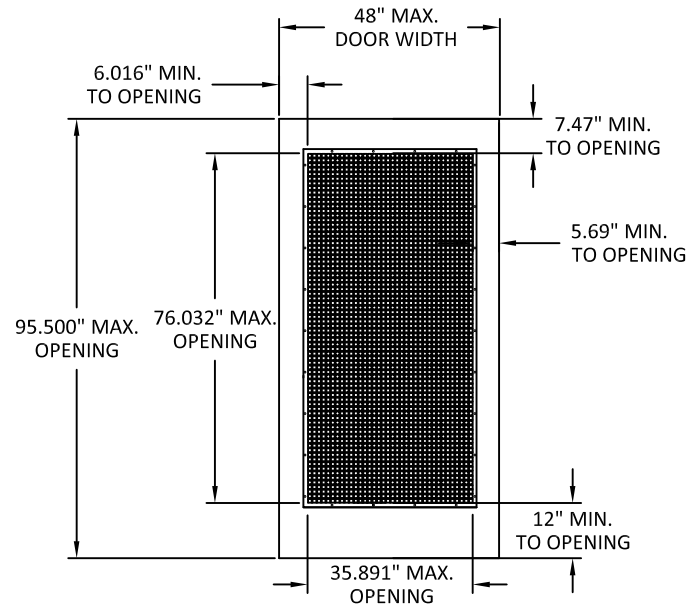
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DWG. #: LDDA330

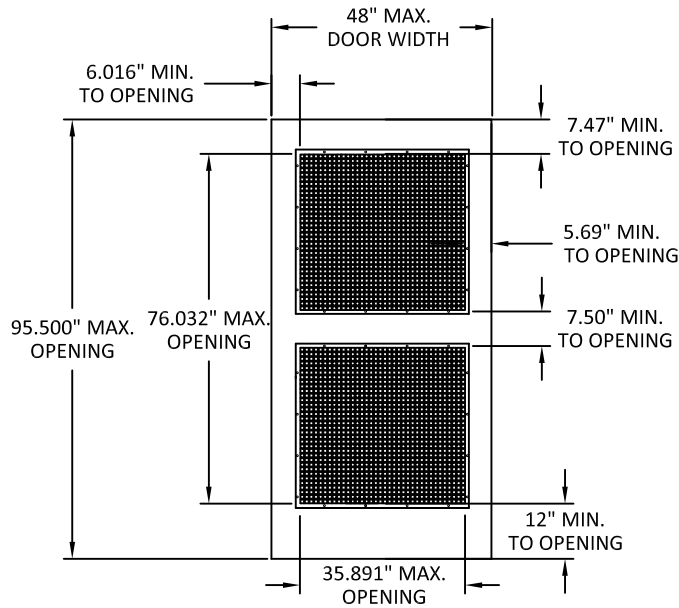
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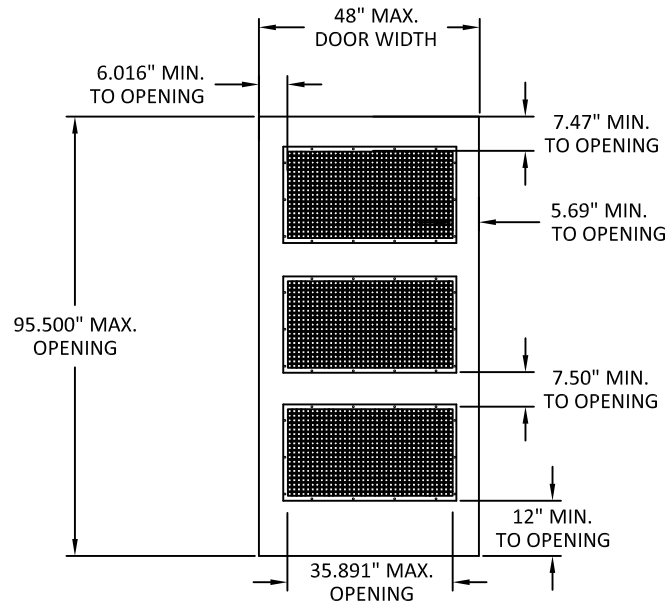
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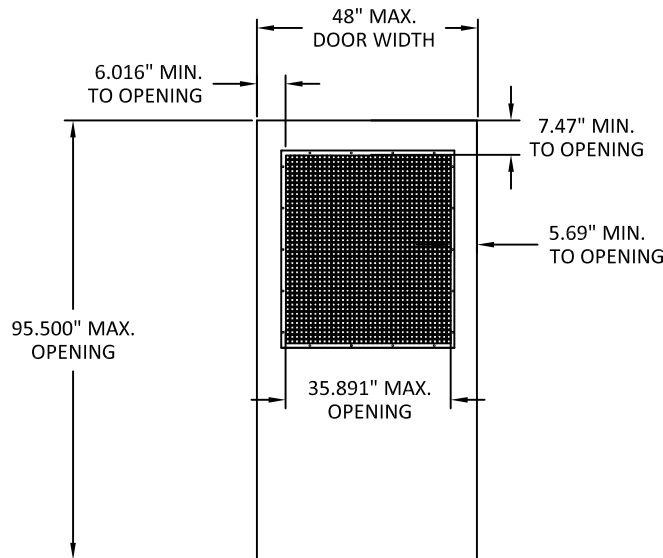
FL - FULL LOUVER



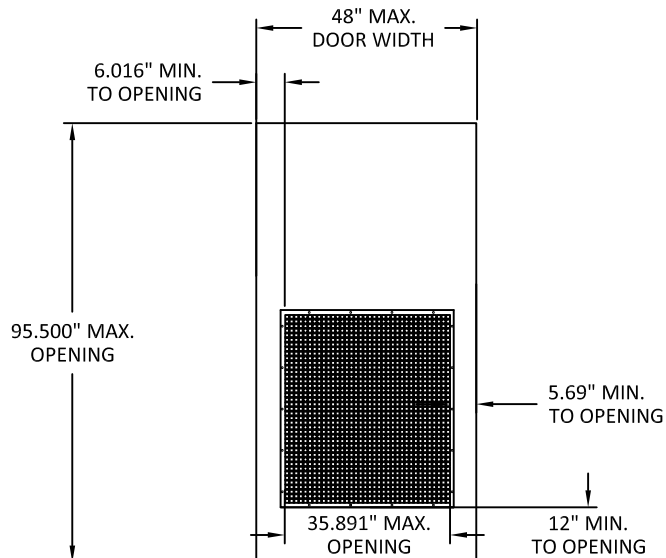
LL - TWO LOUVER



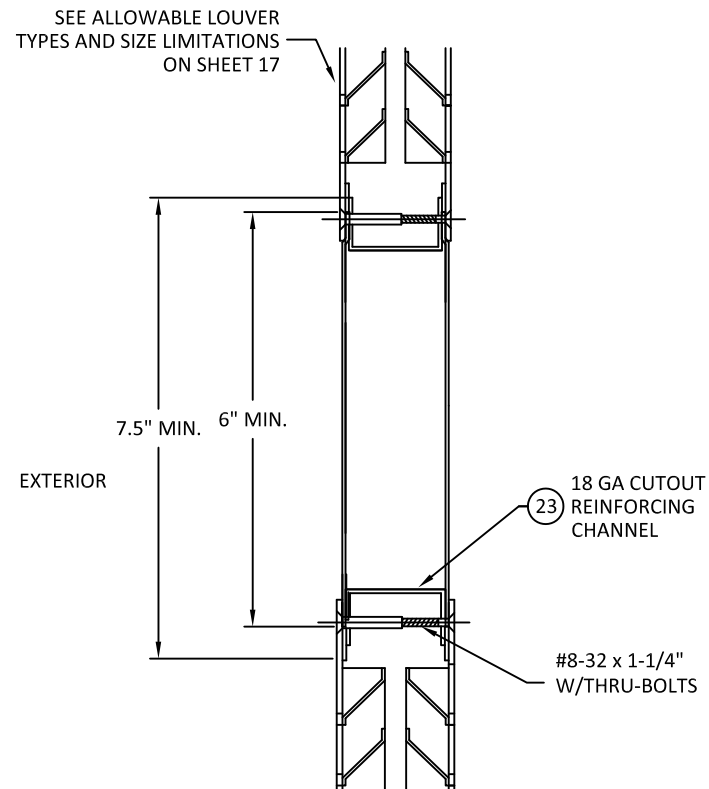
LLL - THREE LOUVER



TL - FULL LOUVER



BL - BOTTOM LOUVER



HORIZONTAL  
MID-RAIL SECTION

- NOTES:
1. MAXIMUM LOUVER SIZE VARIES BASED ON DOOR SIZE AND MANUFACTURER'S LIMITATIONS.
  2. MINIMUM LOCK STILE 6.016 FROM EDGE OF DOOR TO OPENING FOR STEELCRAFT AND REPUBLIC
  3. MINIMUM HINGE STILE 6.016 FROM EDGE OF DOOR TO OPENING FOR STEELCRAFT DOOR WITH BUTT HINGES
  4. MINIMUM HINGE STILE 5.69 FROM EDGE OF DOOR TO OPENING FOR STEELCRAFT DOOR WITH CONTINUOUS HINGE
  5. MINIMUM HINGE STILE 5.875 FROM EDGE OF DOOR TO OPENING FOR REPUBLIC DOOR WITH BUTT OR CONTINUOUS HINGE
  6. CUT OUT REINFORCEMENT CHANNEL MAY BE INSTALLED INVERTED OR FLUSH



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

TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

LOUVER PANEL OPTIONS

PREPARED BY: BUILDING DROPS, INC.

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MIAMI, FL 33132  
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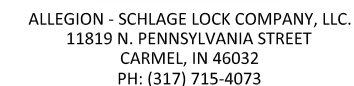
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21

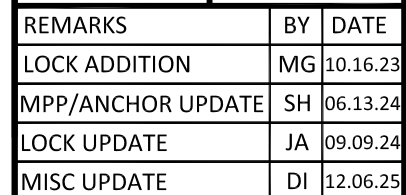
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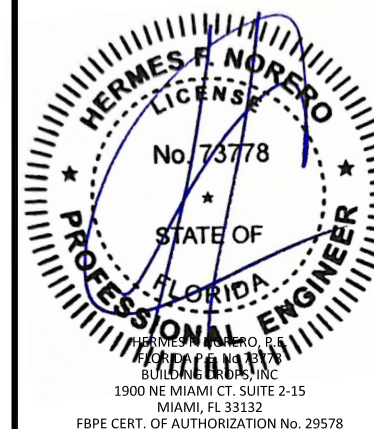
**TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)/(NON-IMPACT)**

PUBLIC DOORS: OPENING  
DIMENSIONS & BOM

PREPARED BY: BUILDING DROPS, INC.



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| DWG. BY:<br><b>DI</b> | CHK. BY:<br><b>HFN</b> |
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SCALE: NTS

DWG. #: LDDA330

SHEET:

22

OF 30

## OUTSWING AND INSWING DOORS

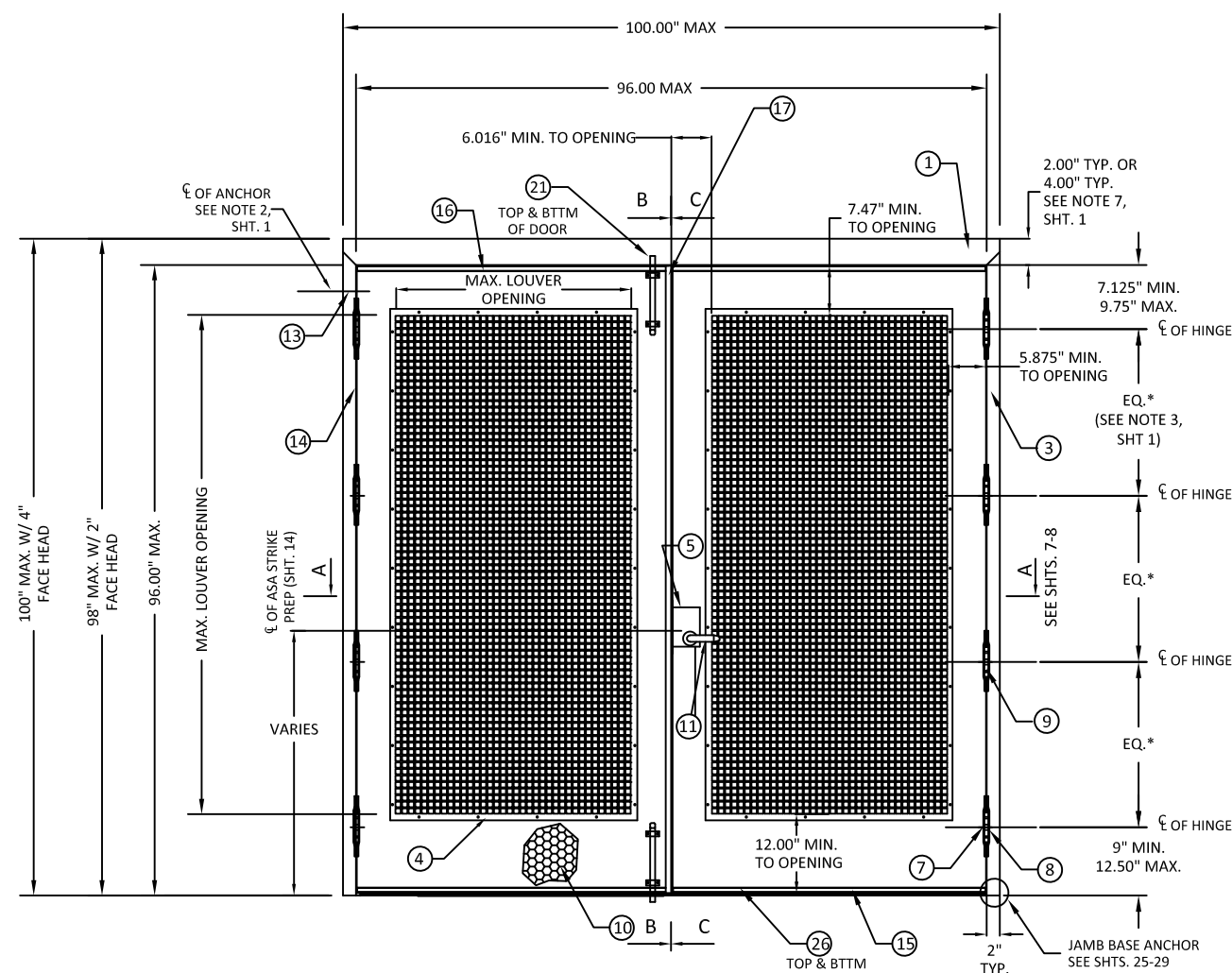
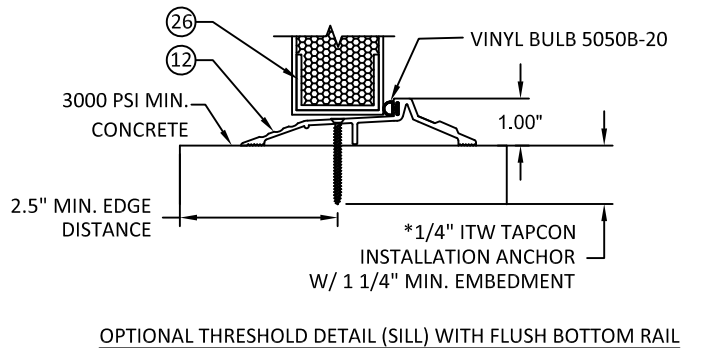
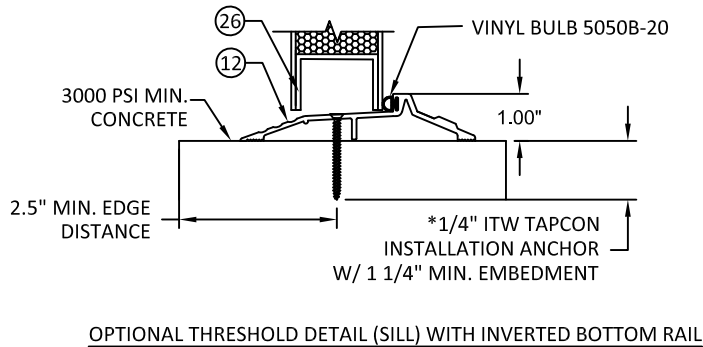
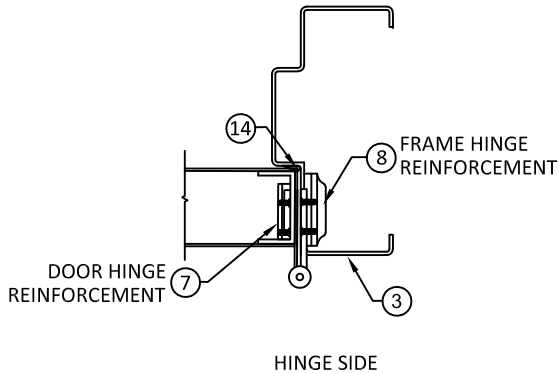
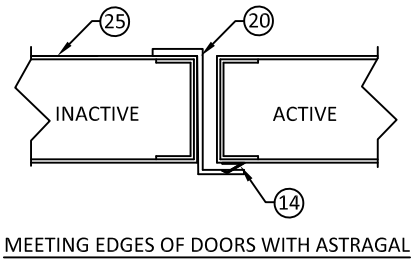
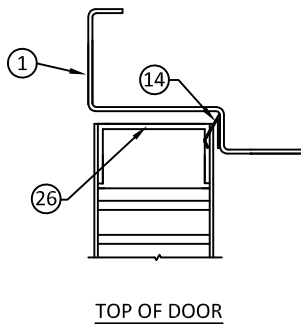
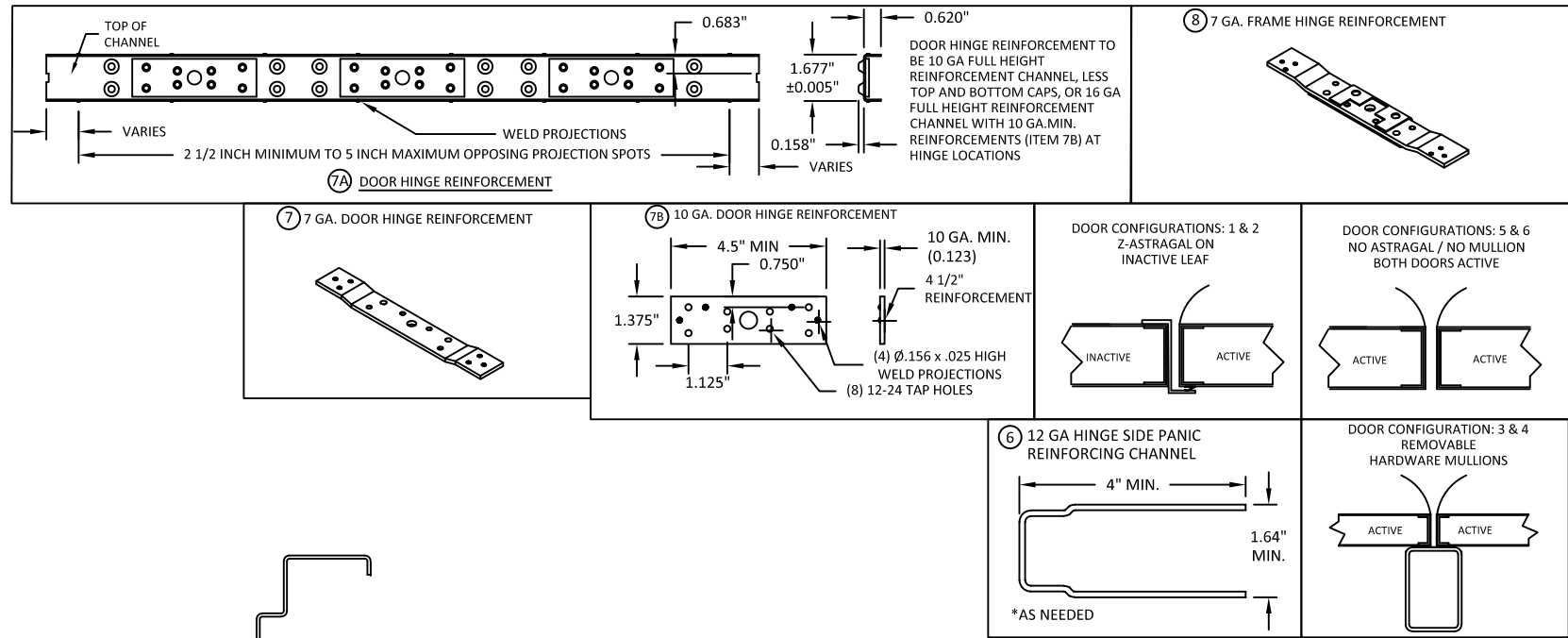


TABLE 7: (FOR OPTION 2 CONFIGURATION SEE TABLE 2 SHT. 4)

| ITEM | QUANTITY         | DESCRIPTION                                                                                                                                        | MATERIAL                                                                                                          | SIZE                                   |
|------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1    | 1                | HEAD                                                                                                                                               | .053" MIN. STL                                                                                                    | MAX. 100"                              |
| 2    | 1                | HARDWARE MULLION USED W/ RIM EXIT OR THREE POINT LATCHING EXIT DEVICE                                                                              | STL OR ALUM                                                                                                       | MAX. 96"                               |
| 3    | 2                | HINGE JAMB                                                                                                                                         | .053" MIN. STL                                                                                                    | MAX. 100"                              |
| 4    | VARIES           | FIXED DOOR LOUVER:<br>ANEMOSTAT PLSL<br>AIR LOUVERS, INC. - 1500-A<br>NATIONAL GUARD PRODUCTS - L-VRSG-2<br>ANEMOSTAT FLDL-UL-SG1 OR FLDL-UL-SG2   | SEE SHT. 20 & 21                                                                                                  | SEE SHT. 20 & 21                       |
| 5    | 2                | LOCK REINFORCEMENT                                                                                                                                 | .053" MIN. STL                                                                                                    | VARIES                                 |
| 6    | AS NEEDED        | HINGE SIDE PANIC REINFORCEMENT                                                                                                                     | .067" MIN. STL                                                                                                    | MAX. 20"                               |
| 7    | NOTE 3, SHT. 1   | HINGE REINFORCEMENT DOOR                                                                                                                           | .167" MIN. STL                                                                                                    | 1.23" X 9.19" MIN.                     |
| 7A   | NOTE 3, SHT.1    | HINGE REINFORCEMENT DOOR                                                                                                                           | .053" MIN. STL                                                                                                    | 1.67" X FULL HEIGHT - END CHANNELS     |
| 7B   | NOTE 3, SHT. 1   | HINGE REINFORCEMENT DOOR                                                                                                                           | .123" MIN. STL                                                                                                    | 1.375" X 9.19" MIN.                    |
| 8    | NOTE 3, SHT. 1   | HINGE REINFORCEMENT FRAME                                                                                                                          | .167" MIN. STL                                                                                                    | 1.5" X 9.19" MIN.                      |
| 9    | NOTE 3, SHT. 1   | 4.5" MIN. BUTT HINGES (SEE SHT. 19)<br>OPTIONAL CONTINUOUS HINGE (SEE SHT. 19)                                                                     | .134 MIN. STL<br>.750" MIN. STL / .110 ALUM.                                                                      | (8) #12-24 MS PER HINGE<br>MAX. 95"    |
| 10   | 2                | CORE MATERIAL:<br>D) HONEYCOMB C) STEEL STIFFENED<br>A&F) POLYSTYRENE B&F) POLYURETHANE/POLYISOCYANURATE<br>E) MINERAL BOARD TEMPERATURE RISE CORE | SEE SHEET 9                                                                                                       |                                        |
| 11   | 2                | LOCKING HARDWARE - LOCKSET                                                                                                                         | SEE SHEET 2 & 3, TABLE 1                                                                                          |                                        |
| 12   | 1                | THRESHOLD SILL W/BUMPER GASKET<br>12A) 566 ZERO 12F) 565 ZERO<br>12B) 950A NGP<br>12C) 65 ZERO 12G) 560 ZERO<br>12D) 568 ZERO<br>12E) 803V NGP     | .125" ALUM. 6063 T5<br>.078" ALUM. 6063 T5<br>0.125" ALUM. 6063 T5<br>0.125" ALUM. 6063 T5<br>.100" ALUM. 6063 T5 | 96" MAX                                |
| 13   | NOTE 2, SHT. 1   | JAMB ANCHOR                                                                                                                                        | SEE SHTS. 11-15 & 25-29                                                                                           | -                                      |
| 14   | SEE SHT. 17 & 18 | 14A) PS074 DOOR SEAL<br>14B) 188S, 14C) 117S, 14D)8145S, 14E)8150S, 14F) 8042S                                                                     | TPE<br>SILICONE                                                                                                   | VARIES                                 |
| 15   | -                | -                                                                                                                                                  | -                                                                                                                 | -                                      |
| 16   | -                | -                                                                                                                                                  | -                                                                                                                 | -                                      |
| 17   | 1                | 17A) 328 SPLIT ASTRAGAL BY ZERO INT'L<br>17B) 137 SPLIT ASTRAGAL BY NGP                                                                            | SEE SHTS. 17 & 18                                                                                                 | -                                      |
| 18   | AS NEEDED        | CAULK - BUTYL RUBBER OR SILICONE                                                                                                                   | SEE SHTS. 17 & 18                                                                                                 | -                                      |
| 19   | -                | -                                                                                                                                                  | -                                                                                                                 | -                                      |
| 20   | 1                | Z-ASTRAGAL REQUIRED FOR CONFIGS. 1 & 2                                                                                                             | .067" MIN. STL                                                                                                    | MAX. 95.5"                             |
| 21   | 2                | 21A) IVES 360 SURFACE BOLT<br>21B) IVES 453 12" SURFACE BOLT<br>21C) IVES 1630 12" SURFACE BOLT                                                    | STEEL<br>-                                                                                                        | 12" MIN. - 24" MAX. LENGTH<br>-        |
| 22   | 1                | ASA STRIKE                                                                                                                                         | -                                                                                                                 | -                                      |
| 23   | AS NEEDED        | 18 GAUGE LOUVER CUTOUT REINFORCEMENT                                                                                                               | -                                                                                                                 | 0.5" MIN. X 1.66" X 35.5" & 75.5" MAX. |
| -    | -                | -                                                                                                                                                  | -                                                                                                                 | -                                      |
| 25   | 2                | DOOR SLAB                                                                                                                                          | SEE SHT. 9                                                                                                        | -                                      |
| 26   | 4                | END CHANNEL (16 GA. INVERTED OR FLUSH)                                                                                                             | .053" MIN. STL                                                                                                    | .62" X 1.66" X 47.66" MAX              |
| 28   | 4                | EDGE CHANNEL 16 GA                                                                                                                                 | .053" MIN. STL                                                                                                    | 0.62" X 1.66"                          |



\*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.



TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

REPUBLIC DOORS: SILL &  
REINFORCEMENT DETAILS

PREPARED BY:

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MIAMI, FL 33132

PH: (954)399-8478

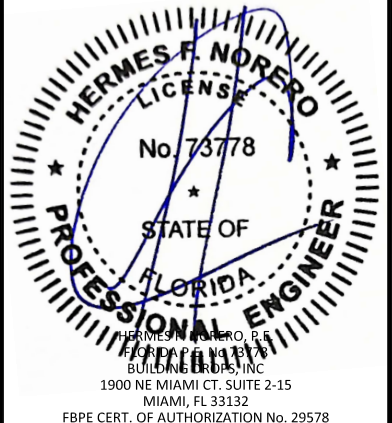
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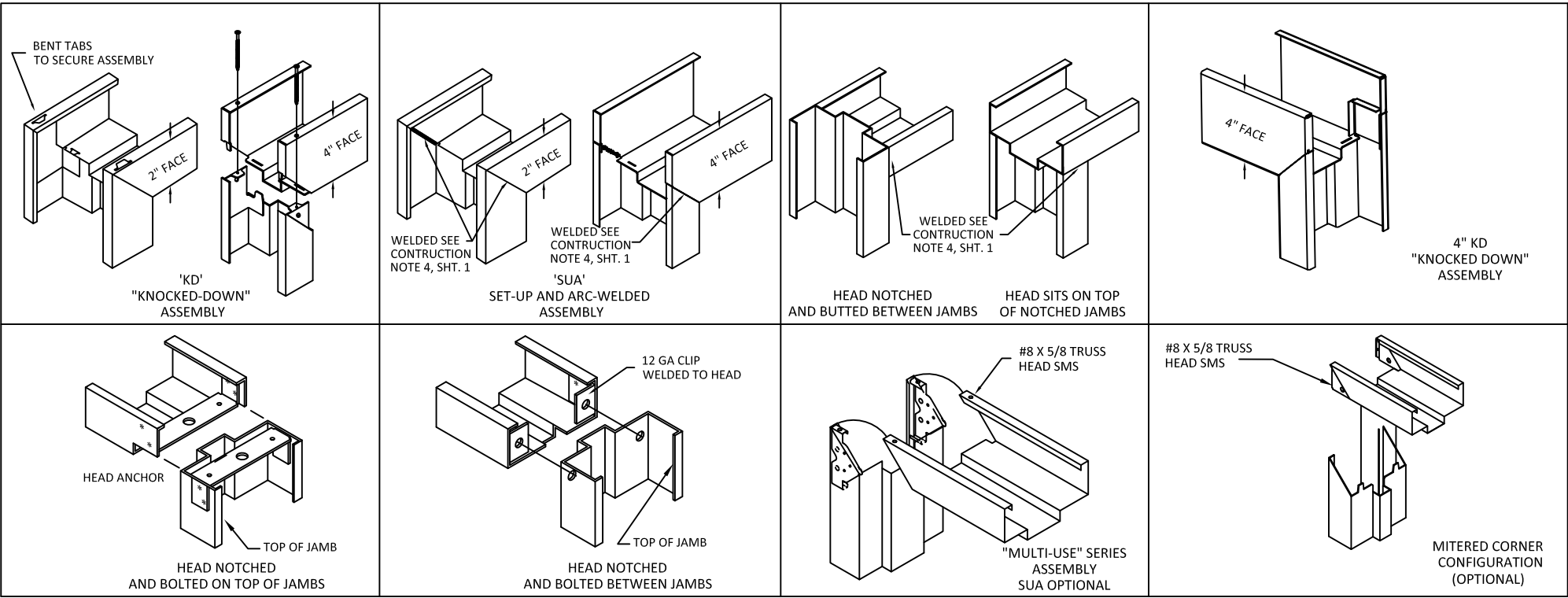
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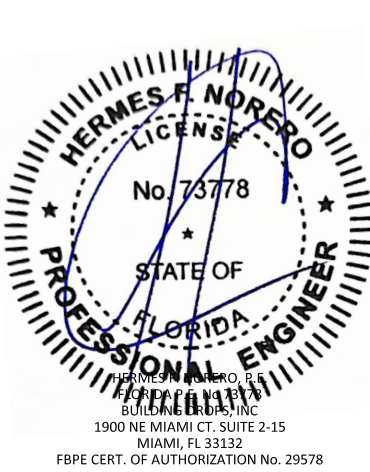
23

OF 30



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
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DWG. BY: DI

CHK. BY: HFN

SCALE: NTS

DWG. #: LDDA330

SHEET: 24

OF 30

TABLE 8: AVAILABLE REPUBLIC DOOR CONFIGURATIONS

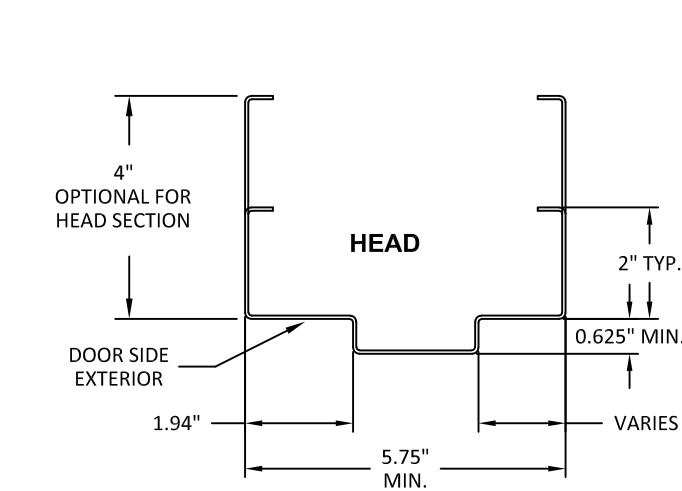
| REPUBLIC DOOR SERIES | DOOR CORE MATERIAL PER SHT. 9                                                          | MAXIMUM OPENING SIZE |        | SKIN MATERIAL |                      |
|----------------------|----------------------------------------------------------------------------------------|----------------------|--------|---------------|----------------------|
|                      |                                                                                        | WIDTH                | HEIGHT | DESCR.        | GA./MIN. THK         |
| DL                   | HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED | 8'-0"                | 8'-0"  | CRS. GALV.    | 18/.044"<br>16/.053" |
| DE                   |                                                                                        | 8'-0"                | 8'-0"  | CRS. GALV.    | 14/.067"             |
| DP                   | HONEYCOMB POLYSTYRENE                                                                  | 8'-0"                | 8'-0"  | CRS. GALV.    | 18/.044"             |

TABLE 9: AVAILABLE REPUBLIC FRAME CONFIGURATIONS

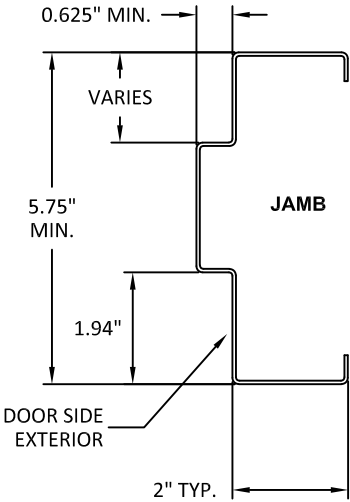
| REPUBLIC FRAME SERIES | JAMB DEPTH | MAXIMUM OPENING SIZE |        | MATERIAL     |                      |
|-----------------------|------------|----------------------|--------|--------------|----------------------|
|                       |            | WIDTH                | HEIGHT | DESCR.     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

TABLE 10: STEEL MECHANICAL PROPERTIES

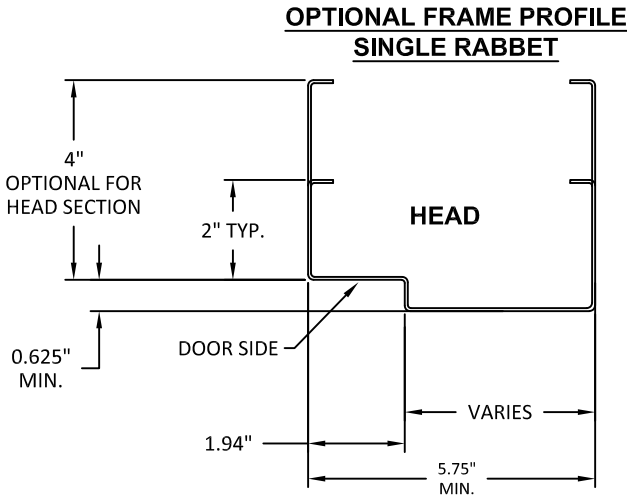
| MATERIAL | ASTM REF. | YIELD (KSI) | TENSILE (KSI) |
|----------|-----------|-------------|---------------|
| CRS      | A1008     | MIN. 30.1   | MIN. 44.7     |
| HRS      | A1011     |             |               |
| GALV.    | A924/A653 |             |               |



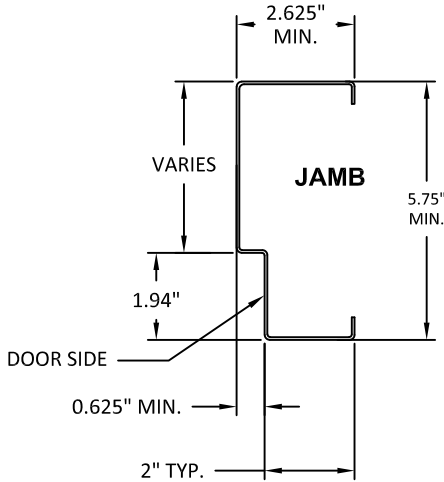
TYPICAL FRAME PROFILE  
DOUBLE RABBET



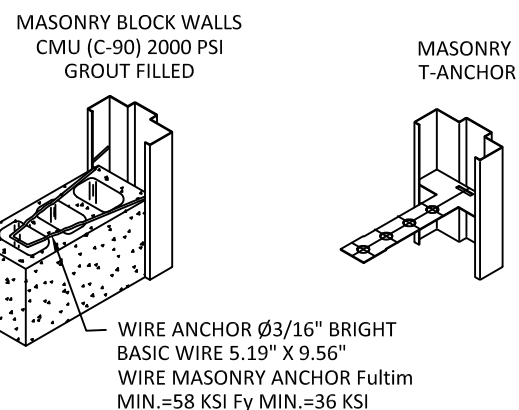
TYPICAL FRAME PROFILE  
DOUBLE RABBET



OPTIONAL FRAME PROFILE  
SINGLE RABBET



WIRE OR T MASONRY ANCHOR  
INTO GROUT FILLED FRAME  
AND BLOCK WALL

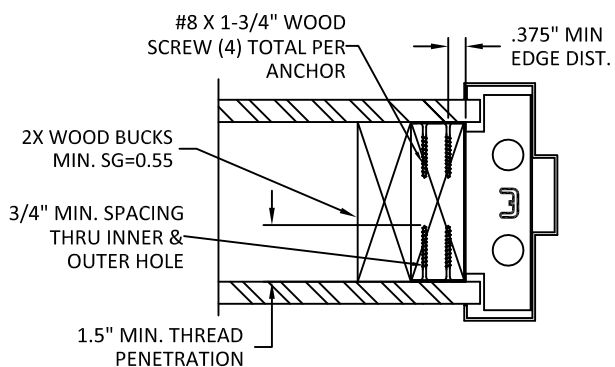


**NOTES:**

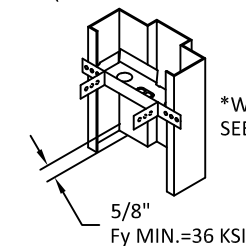
1. (\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, 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 ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

WOOD STUD ANCHOR

SEE PAGE 11 FOR  
OPTION 1 ANCHOR DETAILS

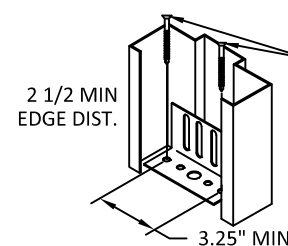


WOOD STUD OR UNIVERSAL ANCHOR  
(LOCK-IN OR WELD-IN)



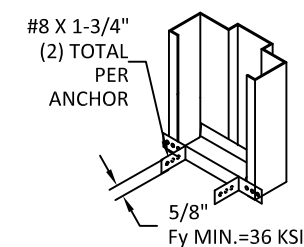
\*WOOD STUD WALLS  
SEE NOTE 11, SHT. 1

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)

DETAIL B  
JAMB BASE ANCHOR  
(WELDED OR ADJUSTABLE)



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

**TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)**

**REPUBLIC DOORS:  
ANCHORS - WIRE OR T MASONRY ANCHOR  
& WOOD STUD; REPUBLIC OPTIONS**

PREPARED BY:

BUILDING DROPS, INC.  
1900 NE MIAMI CT. SUITE 2-15

MIAMI, FL 33132

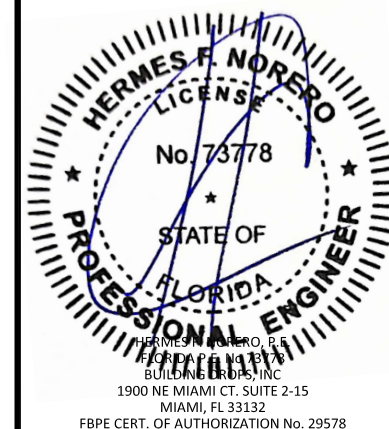
PH: (954)399-8478  
AX: (954)744.4738

FAX: (934) 444-7138  
WEB: [www.buildingdrops.com](http://www.buildingdrops.com)



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.06.25 |

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.



FL10356

DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: NTS

DWG. #: LDDA330

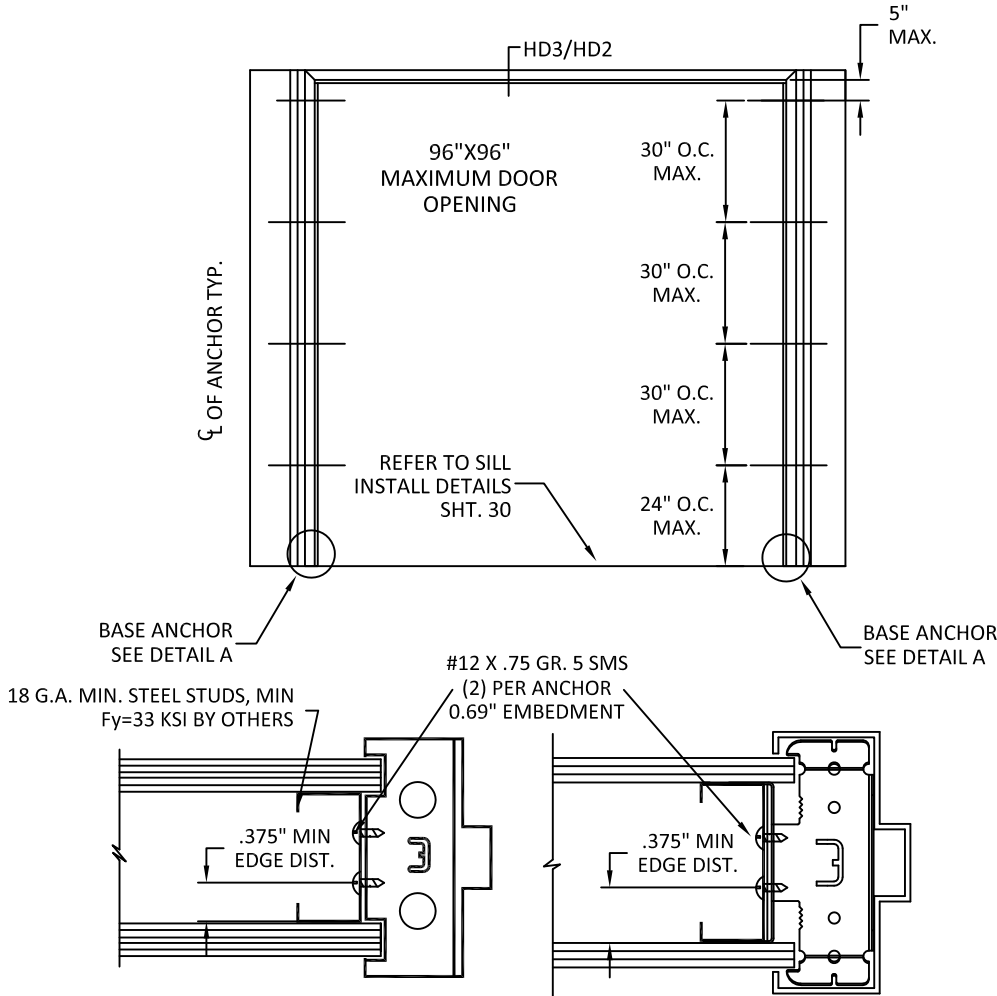
SHEET:

25

OF 30

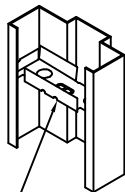
3

STEEL STUD ANCHOR

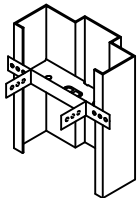


STEEL STUD ANCHOR WELD-IN OR LOCK-IN

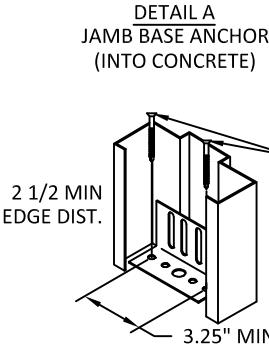
UNIVERSAL ANCHOR WELD-IN OR LOCK-IN



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



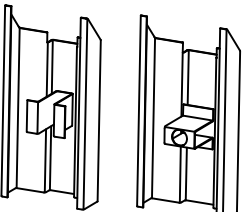
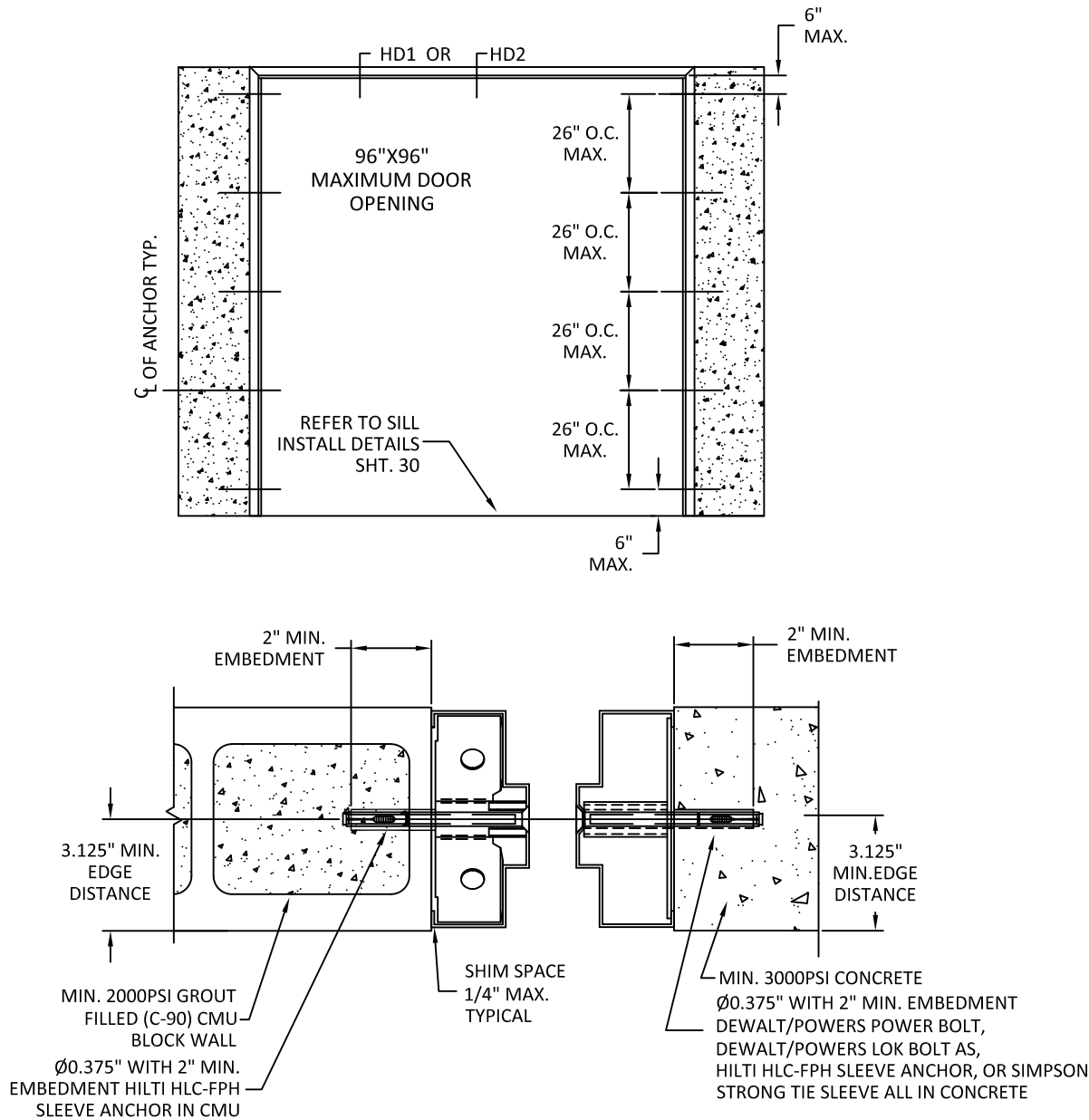
NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.  
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN 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 ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.



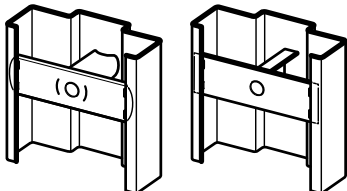
(3 KSI MIN.)  
Ø0.375" WITH 2" MIN. EMBEDMENT  
DEWALT/POWERS POWER BOLT, DEWALT/POWERS LOK BOLT AS, HILTI HLC-FPH SLEEVE ANCHOR, SIMPSON STRONG TIE SLEEVE-ALL OR 3/8" LAG BOLT INTO (2) 2X WOOD SILL (SG=0.55)

4

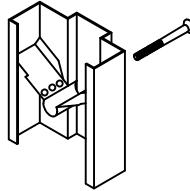
PREPARED OPENING ANCHOR (POA) INTO CONCRETE WALL OR CMU



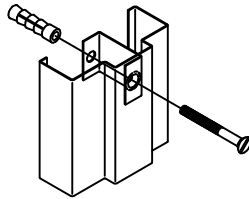
POA ANCHOR



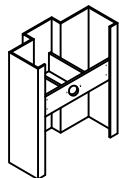
TUBE/CHANNEL & PLATE BOLT-IN



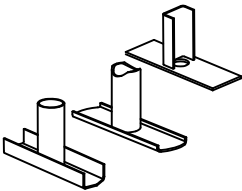
LOCK-IN



POA ANCHOR



TUBE AND STRAP



TUBE & PLATE WELD-IN EMA ANCHOR

SEE PAGES 12 FOR OPTION 1 ANCHOR DETAILS



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

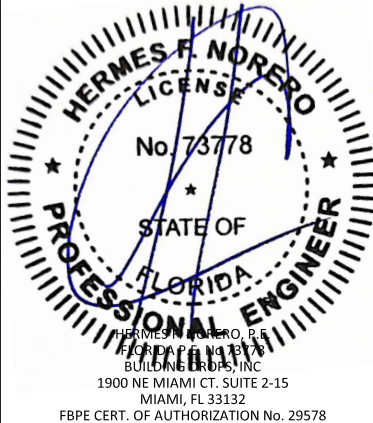
TITLE: LOUVERED OUTSWING/INSWING COMMERCIAL STEEL DOUBLE DOOR SYSTEMS (NON-HVHZ)(NON-IMPACT)  
REPUBLIC DOORS: ANCHORS - STEEL STUD & EMA INTO CONCRETE OR CMU

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



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.06.25 |

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FL10356

DATE: 04.20.23

DWG. BY: DI CHK. BY: HFN

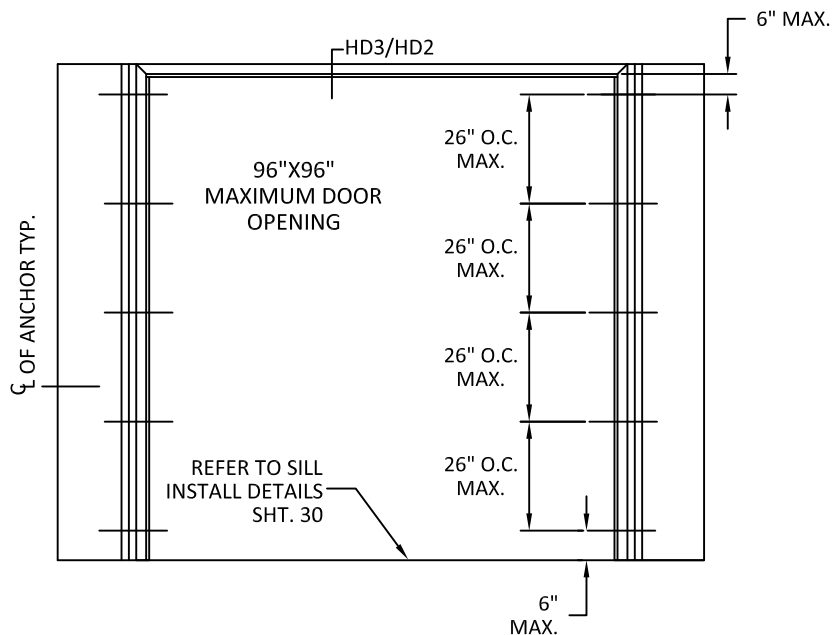
SCALE: NTS

DWG. #: LDDA330

SHEET: 26 OF 30

5

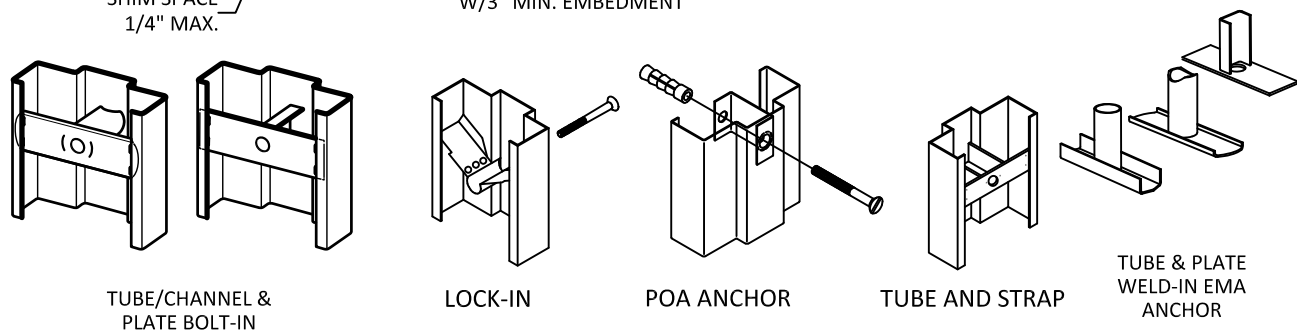
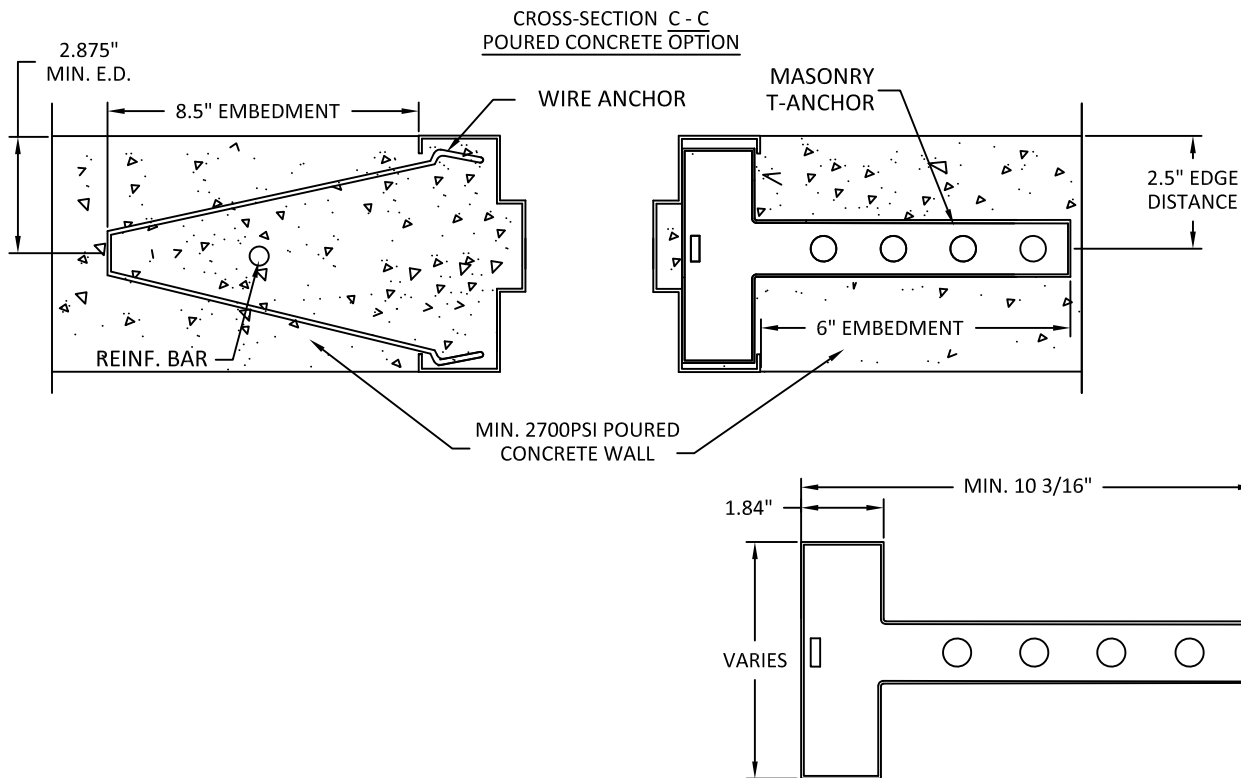
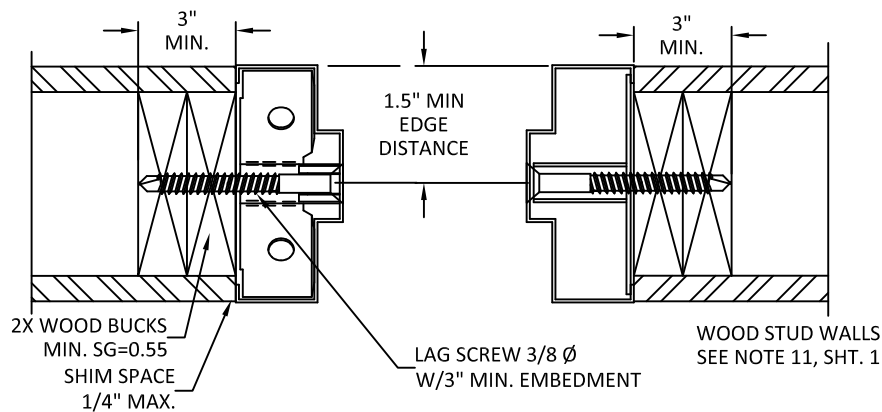
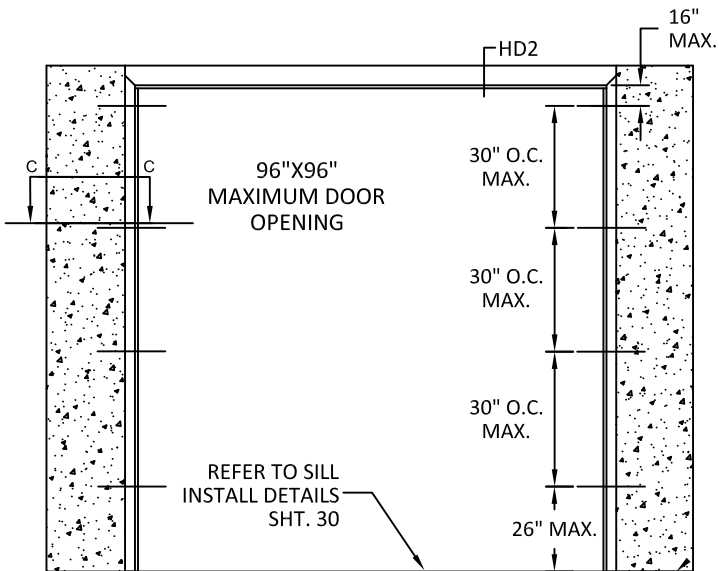
PREPARED OPENING ANCHOR (POA) WITH LAG BOLT INTO WOOD STUD WALL



6

POURED CONCRETE TILT UP WALL

SEE PAGES 13 FOR  
OPTION 1 ANCHOR DETAILS



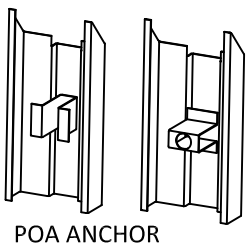
LOCK-IN

POA ANCHOR

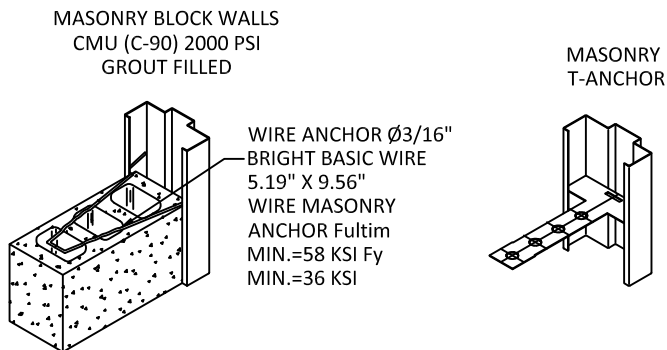
TUBE AND STRAP

TUBE & PLATE  
WELD-IN EMA  
ANCHOR

NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.  
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4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.  
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NOTE:  
1. 3/8" LAG SCREWS TO BE MIN SAE GRADE 2 OR EQUIVALENT.

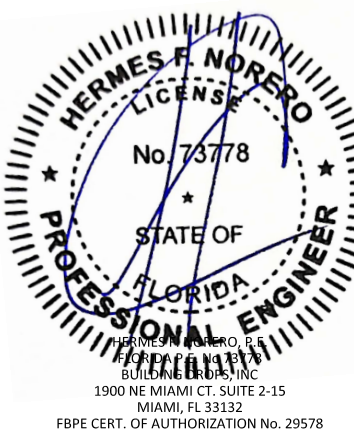


ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-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

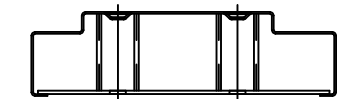
| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.06.25 |

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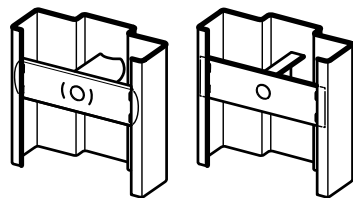


FL10356  
DATE: 04.20.23  
DWG. BY: DI  
CHK. BY: HFN  
SCALE: NTS  
DWG. #: LDDA330  
SHEET: 27  
OF 30

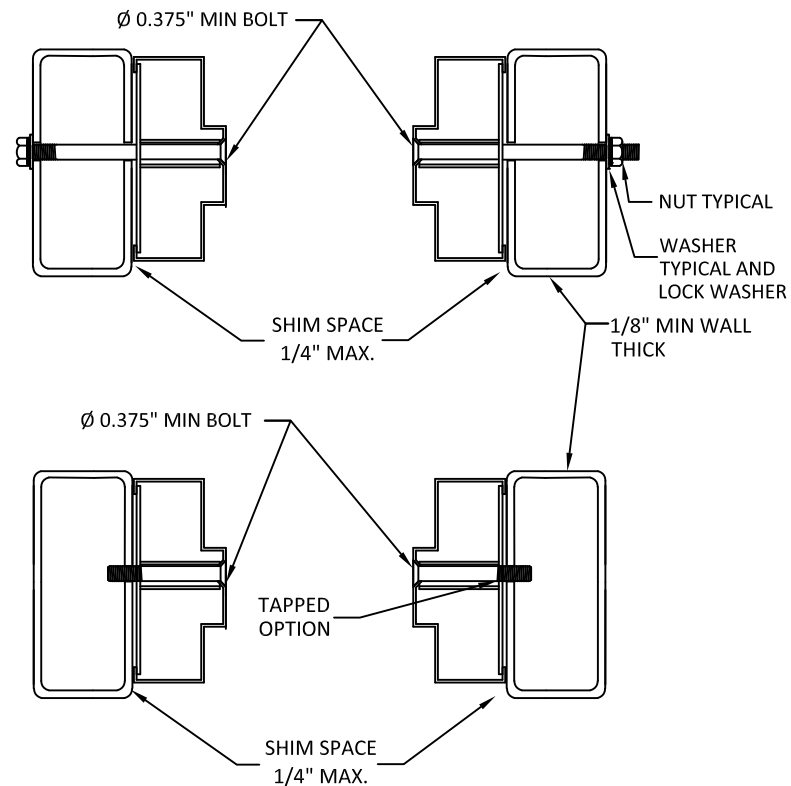
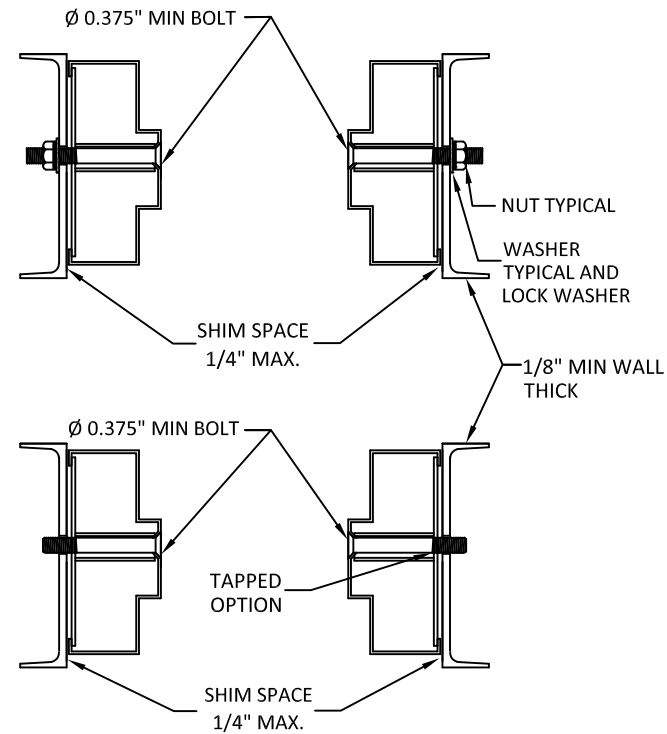
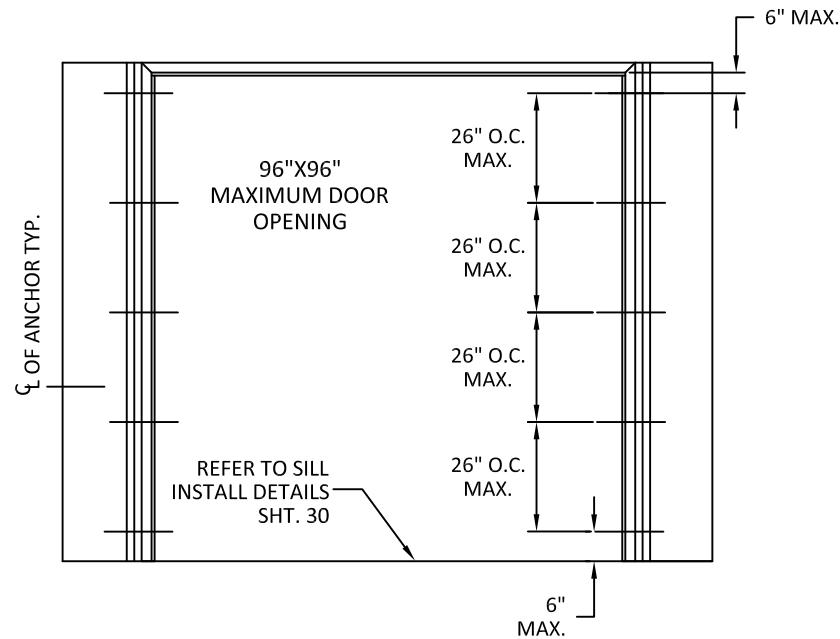
7 FRAMES BOLTED TO BUILDING STRUCTURE



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 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 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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ALLEGION - SCHLAGE LOCK COMPANY, LLC.  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032  
PH: (317) 715-4073

TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-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

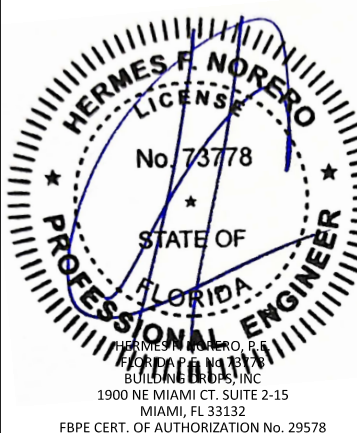
FAX: (954)744-4738

WEB: www.buildingdrops.com



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
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FL10356

DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: NTS

DWG. #: LDDA330

SHEET:

28

OF 30

SEE PAGES 15 FOR  
OPTION 1 ANCHOR DETAILS



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

TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

REPUBLIC DOORS: ANCHORS - FRAMES  
WELDED TO STEEL STRUCTURE BUILDING

**BUILDING DROPS, INC.**  
1900 NE MIAMI CT. SUITE 2-15  
MIAMI, FL 33132

MIAMI, FL 33132  
PH: (954)399-8478

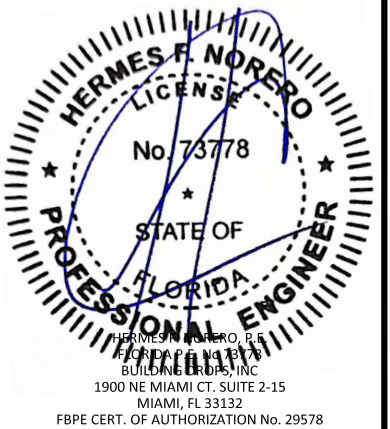
AX: (954)744.4738

WEB: [www.buildingarops.com](http://www.buildingarops.com)



| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
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FL10356

DATE: 04.20.23

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

SCALE: **NTS**

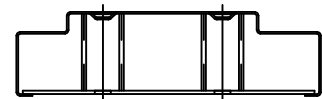
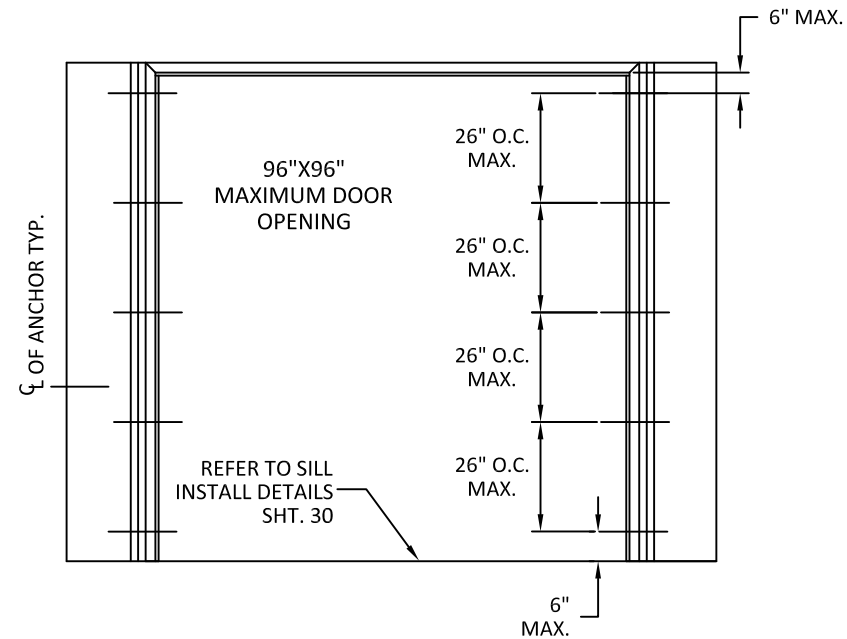
DWG. #: LDDA330

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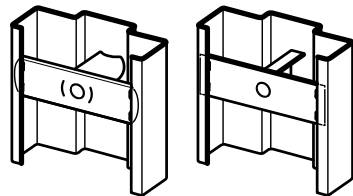
29

OF 30

## 8 WELDED ANCHOR SHIM OR STEEL BUILDING STRUCTURE



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 208 #/FT. LOAD FOR ASSEMBLIES RATED @ 50 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 ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

SEE PAGE 16 FOR  
OPTION 1 ANCHOR DETAILS



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

TITLE: LOUVERED OUTSWING/INSWING  
COMMERCIAL STEEL DOUBLE DOOR  
SYSTEMS (NON-HVHZ)(NON-IMPACT)

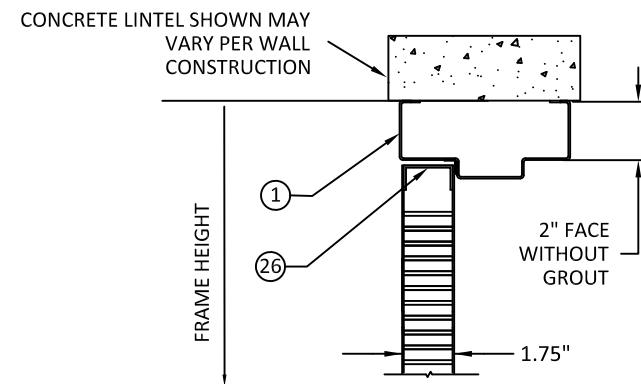
## REPUBLIC DOORS: FRAME HEAD & SILL DETAILS

PREPARED BY: BUILDING DROPS, INC.

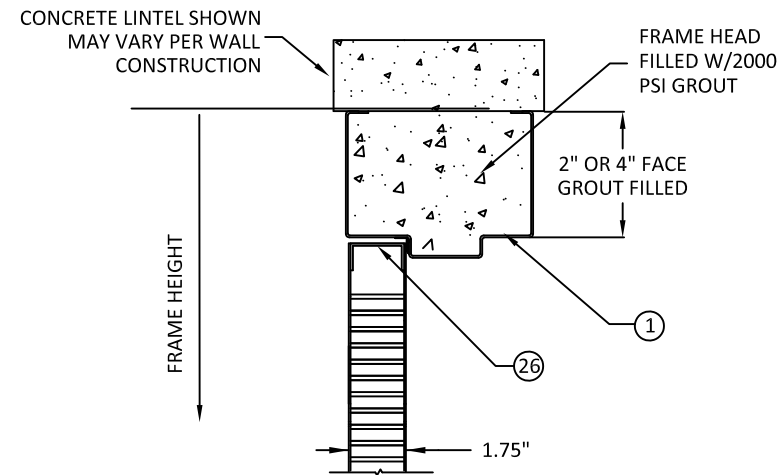
MIAMI, FL 33132

PH: (954)399-8478  
FAX: (954)744.4738

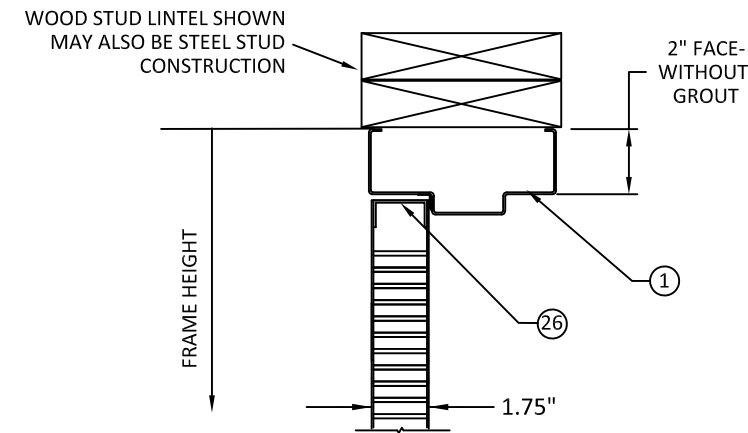
WEB: [www.buildingdrops.com](http://www.buildingdrops.com)



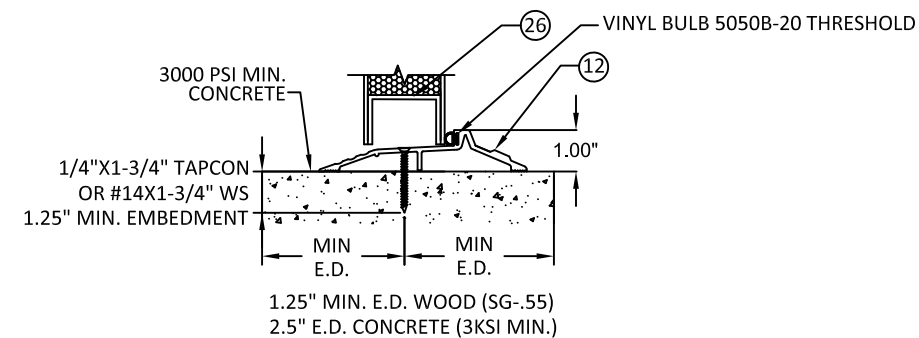
## HD1 - FRAME HEAD SECTION



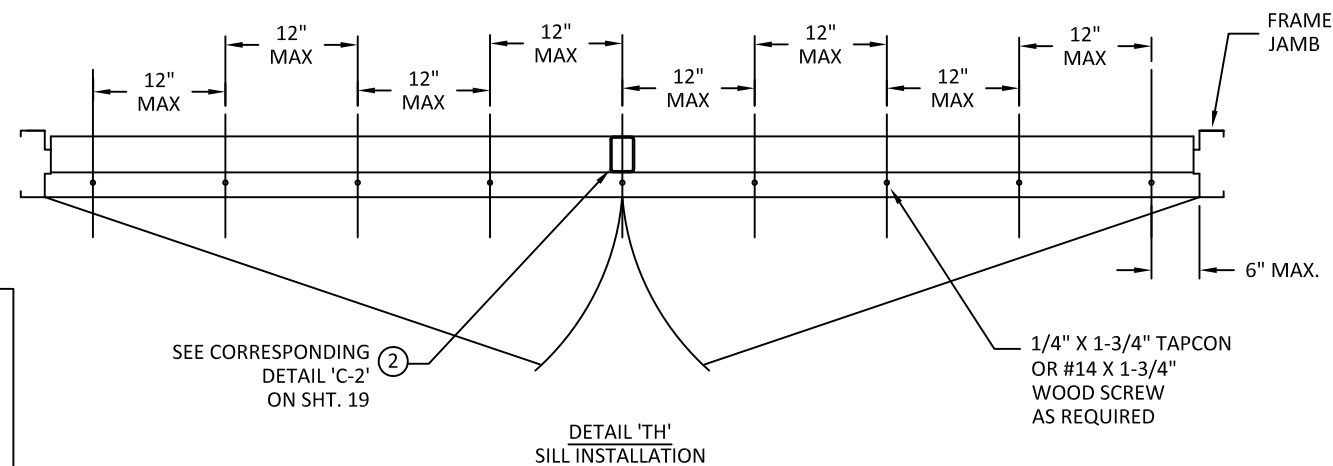
## HD2 - FRAME HEAD SECTION



### HD3 - FRAME HEAD SECTION



SILL DETAIL 'TH' (SIDEVIEW)  
WOOD OR CONCRETE SILL  
E.D. - EDGE DISTANCE

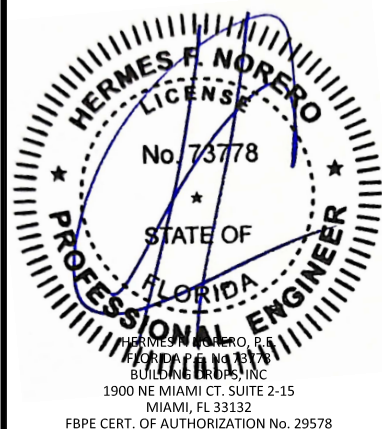


**NOTES:**

1. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
2. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
3. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

| REMARKS           | BY | DATE     |
|-------------------|----|----------|
| LOCK ADDITION     | MG | 10.16.23 |
| MPP/ANCHOR UPDATE | SH | 06.13.24 |
| LOCK UPDATE       | JA | 09.09.24 |
| MISC UPDATE       | DI | 12.06.25 |

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.



FL10356

DATE: 04.20.23

DWG. BY:  
DI

CHK. BY:  
HFN

SCALE: **NTS**

DWG. #: LDDA330

SHEET:

30

OF 30