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ALLEGION - SCHLAGE LOCK COMPANY, LLC.

INSWING & OUTSWING SINGLE FLUSH WITH SCHLAGE LM9300 SERIES

THREE POINT LOCK (HVHZ)(MISSILE LEVEL E IMPACT)

GENERAL NOTES:

- 1. THESE PRODUCTS COMPLY WITH THE CURRENT FLORIDA BUILDING CODE AND HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS 201, 202, & 203-94 AND ASTM E1886-13A, E1996-14A & E330-14.
- 2. THE DOORS ARE LARGE MISSILE IMPACT RATED.
- 3. DISSIMILAR MATERIAL IN CONTACT SHALL MEET FBC REQUIREMENTS.
- 4. ASSEMBLIES MEET FBC AIR INFILTRATION REQUIREMENTS.

NOTES:

- 1. WEATHERSTRIPPING
 - INSTALL PER SHTS. 16 & 17
- 2. ANCHOR REQUIREMENTS: SEE SHTS. 7 - 15 FOR ANCHORS AND INSTALLATION.
- 3. HINGE REQUIREMENTS: 4.5" STD WT. MIN.
 - BUTT HINGE REQUIREMENTS:
 - FOR DOOR OPENING UP TO 60" HIGH - MIN. (2) HINGES
 - FOR DOOR OPENING OVER 60" - 90" HIGH - MIN. (3) HINGES
 - FOR DOOR OPENING OVER 90" - 96" HIGH - MIN. (4) HINGES
 - LOCATIONS: 7.125" MIN. - 9.75" MAX. FROM RABBET IN HEAD TO CL OF TOP HINGE
 - 9" MIN. - 12.25" MAX. FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.
 - HINGE SPACING MAY VARY, MAXIMUM SPACE NOT TO EXCEED 35 1/2" BETWEEN HINGES.
- 4. SEE SHTS. 2, 3, 18, 19 & 20 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
- 5. INSTALLATION HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATIONS INSTRUCTIONS OR AS REQUIRED BY THIS APPROVAL.
 - 4" FACE HEAD IS AVAILABLE WHEN GROUTED FULL.
- 7. APPLY CAULK AS NEEDED.
- 8. SEE SHT. 4 FOR SECTION A-A AND B-B.
- 9. 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.
- 10. 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.

CONSTRUCTION NOTES:

- 1. DOOR CONSTRUCTION
 - 1.1. NOMINAL DOOR THICKNESS - 1 3/4"
 - 1.2. DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS
 - 1.3. ALL DOORS ARE FLUSH - NO LITES OR LOUVERS APPROVED
 - 1.4. DOOR VIEWERS ARE PERMITTED TO BE USED IN A DOOR WITH A DESIGN RATING OF +/-75 PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION. MAXIMUM 2 VIEWERS PER DOOR.
- 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 6, SHT. 18). REPUBLIC DOOR FRAME OPTIONS AVAILABLE AS ME-SERIES AND SE-SERIES (SEE TABLE 10, SHT. 20).
- 3. FOR STEELCRAFT DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 7, SHT. 18. FOR REPUBLIC DOORS DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 11 SHT. 20.
- 4. FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 18 & 20 FOR DETAIL.

DESIGN PRESSURE RATING		
	WHERE WATER INFILTRATION REQUIREMENT IS <u>NOT</u> NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS <u>NOT</u> NEEDED
	OUTSWING	INSWING
POSITIVE	+ 107 PSF	+ 107 PSF
NEGATIVE	- 107 PSF	- 107 PSF

*WATER INFILTRATION NOT APPROVED

LARGE MISSILE IMPACT RATING	
TEST STANDARD	IMPACT
FBC TAS 201/203	54.5 MPH (80 FPS)
ASTM E1886 AND ASTM E1996	LEVEL E 54.5 MPH (80 FPS)

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12	4-SIDED FRAME ANCHORS - WOOD STUD JAMB ANCHOR & STEEL STUD JAMB ANCHOR
13	4-SIDED FRAME ANCHORS - EXISTING MASONRY JAMB ANCHOR W/ LAG SCREW INTO WOOD STUD WALL & INTO CONCRETE WALL OR CMU
14	4-SIDED FRAME ANCHORS - FRAMES BOLTED TO BUILDING STRUCTURE & POURED CONCRETE TILT WALL CONSTRUCTION
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17	GASKETING DETAILS - PERIMETER SEAL CONT.
18	FRAME DETAILS & CORNER CONSTRUCTION
19	REPUBLIC DOORS: SINGLE DOORS INSWING & OUTSWING CONFIGURATIONS
20	REPUBLIC DOORS: FRAME DETAILS & CORNER CONSTRUCTION



ALLEGION-SCHLAGE LOCK COMPANY, LLC
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GENERAL NOTES & DESIGN PRESSURE TABLE

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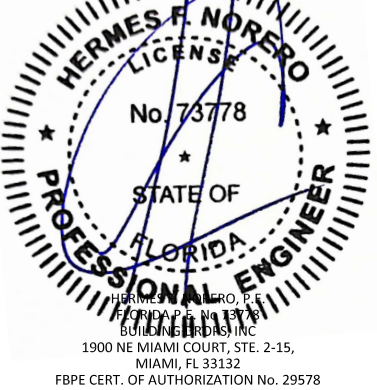
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REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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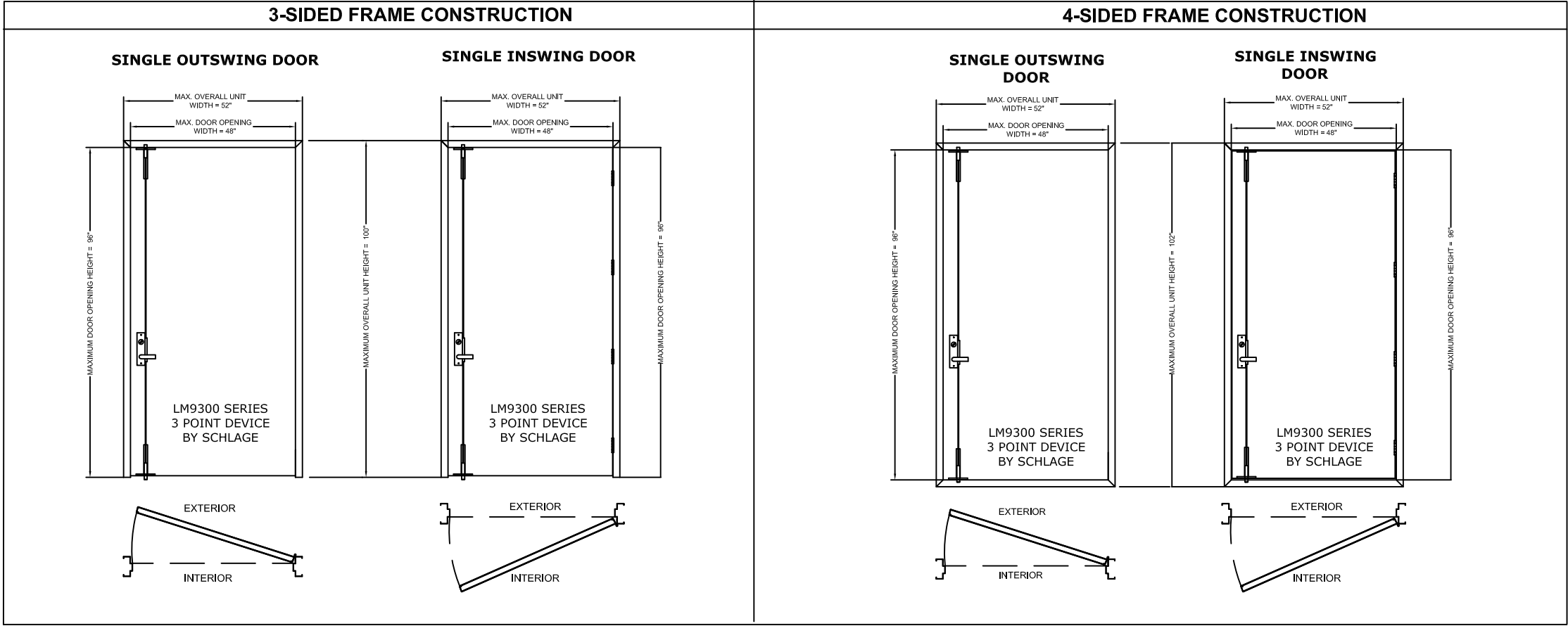
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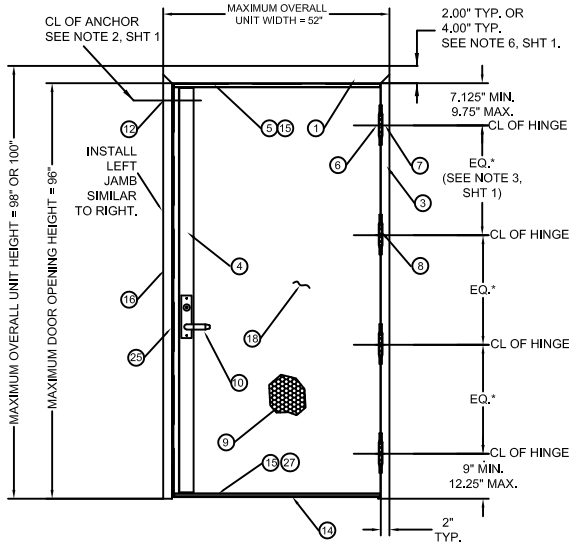
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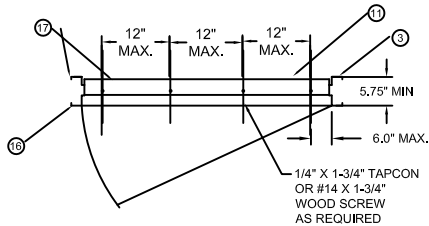
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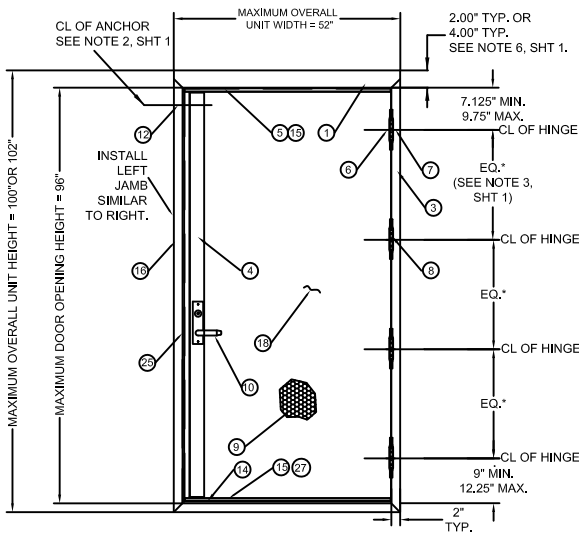
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INSWING OR OUTSWING DOOR WITH THREE SIDED FRAME
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE



DETAIL "TH"
TYPICAL THREE SIDED FRAME
SILL THRESHOLD INSTALLATION
SINGLE DOOR



INSWING OR OUTSWING DOOR WITH FOUR SIDED FRAME
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE

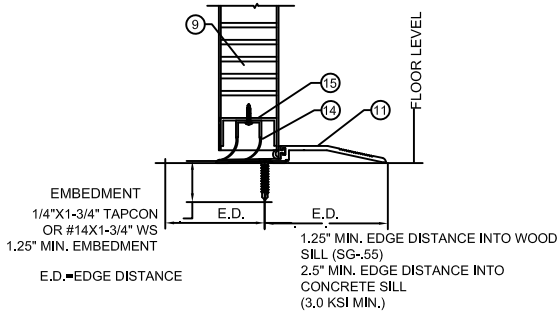


TABLE 1 (SEE TABLE 8, SHEET 17 FOR OPTION 2 CONFIGURATION)

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD (SEE SHT. 18)	.053" MIN. STL	MAX. 100"
2	1	SILL JAMB (SEE SHT. 18)	.053" MIN. STL	MAX. 100" HEIGHT.
3	1	HINGE JAMB (SEE SHT. 18)	.053" MIN. STL	MAX. 102" HEIGHT.
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5 X 93.44 MAX
5	1	TOP CHANNEL LOCK REINFORCEMENT	.093" MIN. STL	0.5" X 1.46" X 48" MAX.
6	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL.	1.23" X 9.19" MIN.
7	1	HINGE REINFORCEMENT FRAME	.167" MIN. STL.	1.5" X 9.19" MIN.
8	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES (SEE SHT. 5)	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT. 5)	.067" MIN. STL/.12 ALUM	MAX. 95"
9	1	CORE MATERIAL (SHT. 6):	D) HONEYCOMB C) STEEL STIFFENED A/F) POLYSTYRENE B/F) POLYURETHANE/POLYISOCYANURATE E) MINERAL BOARD TEMPERATURE RISE CORE	
10	1	LOCKING HARDWARE- SCHLAGE LM9300 SERIES THREE POINT LOCK THRESHOLD SILL W/BUMPER GASKET (SEE SHTS. 16 & 17)		
11	1	1) ZERO 11A-T1)566A, 11B-T3)65A, 11C)568 2) NAT'L GUARD T2)950A, T4)803V	ALUM. 6063 T5	48" MAX.
12	NOTE 2, SHT. 1	JAMB ANCHOR ASTM A924	SEE SHTS. 7 - 15	
13	1	PSO74 WEATHER STRIPPING	TPE	MAX. 24'
14	1	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.66"
15	2	END CHANNEL (16 GA - INVERTED)	.053" MIN. STL.	.62" X 1.66" X 47.66" MAX.
16	1	STRIKE JAMB (SEE SHT. 18)	.053" MIN. STL	MAX. 102" HEIGHT.
17	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE		
18	1	DOOR SLAB (16 OR 14 GA)	SEE SHT. 18	48" X 96" MAX.
19	1	BY ZERO INT'L SEAL A)188S, B)117S, C)8145S, D)8150S, E)8042S		
		BY NGP DOOR SEAL No.5020	SILICONE	MAX. 24'
20	2	BY ZERO INT'L DOOR SWEEP No.539		
		BY NGP DOOR SWEEP No.202N	TPE	MAX. 96"
21	2	BY ZERO INT'L DOOR SWEEP A)139, B) 328, C)39		
		BY NGP DOOR SWEEP No.200N	SEE SHTS. 16 & 17	MAX. 48"
22	2	BY ZERO INT'L ADJUSTABLE STOP No.475		
		BY NGP ADJUSTABLE STOP No.170N	TPE	MAX. 48"
23	1	BY ZERO INT'L DOOR SEAL No.188S	SILICONE	MAX. 24'
23A	1	BY ZERO INT'L RAIN DRIP 142	ALUMINUM	MAX. 100"
23B	1	BY ZERO INT'L RAIN DRIP 11	ALUMINUM	MAX. 48"
24	1	TOP CHANNEL REINFORCEMENT	.093" MIN. STL.	0.5" X 1.457" X 48" MAX.
25	1	STRIKE REINFORCEMENT STRIKE JAMB	.053" MIN. STL	1.31" X 8.38." MIN.
26	1	STRIKE REINFORCEMENT HEAD OR SILL	.093" MIN. STL	0.875" X 2" MIN.
27	1	BOTTOM CHANNEL PREP/ REINFORCEMENT 2-PIECES	.093" MIN. STL	1.375" X 3.5"
30		IVED DOOR VIEWER U698/698		



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STEELCRAFT SINGLE OPENING INSWING &
OUTSWING CONFIGURATIONS & BOM

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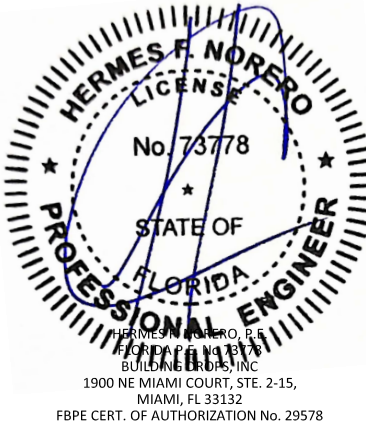
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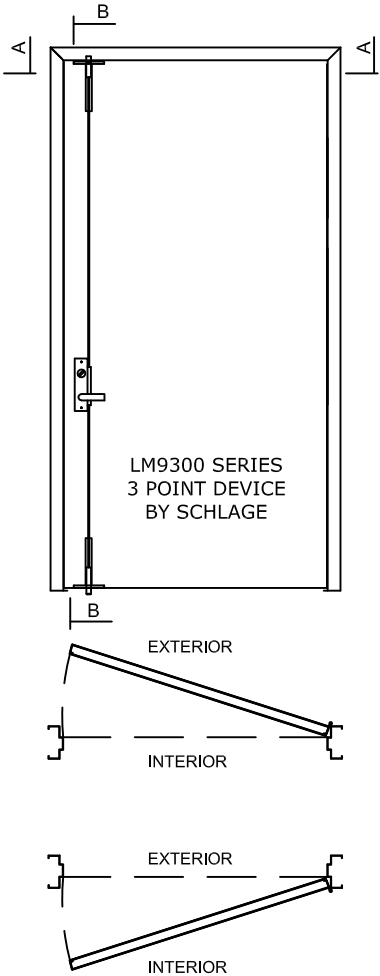
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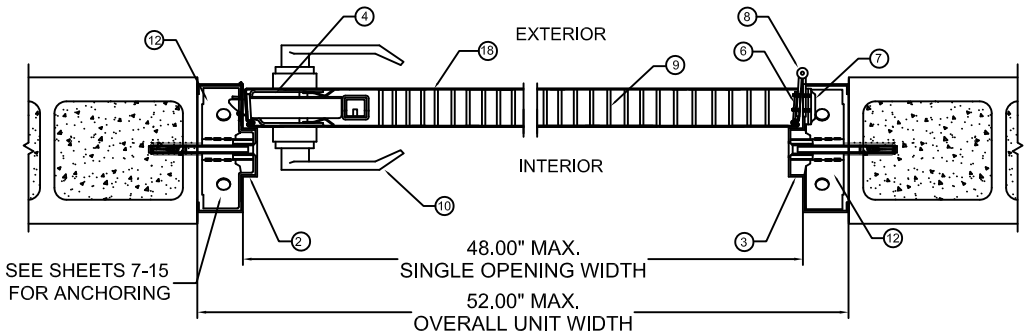
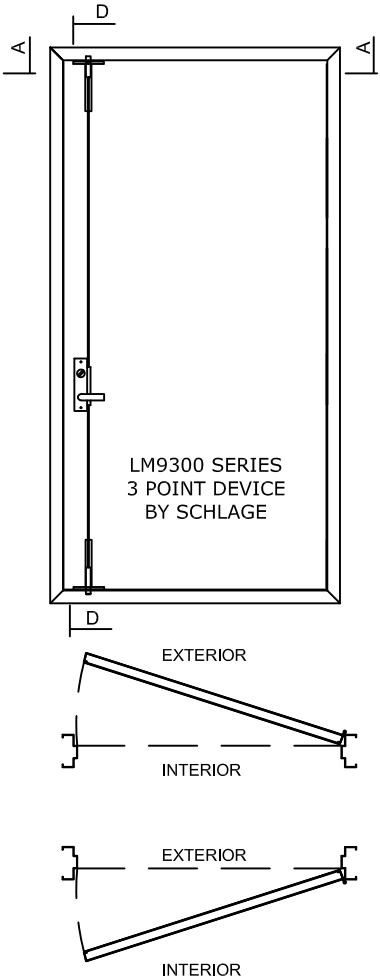
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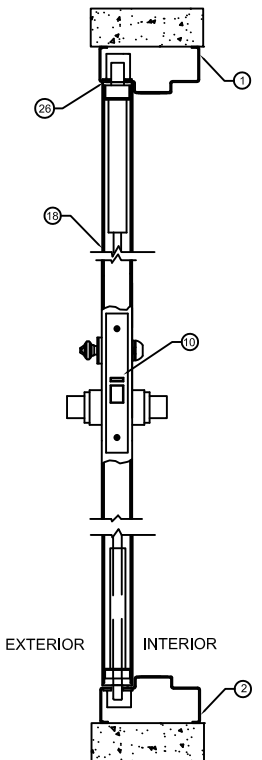
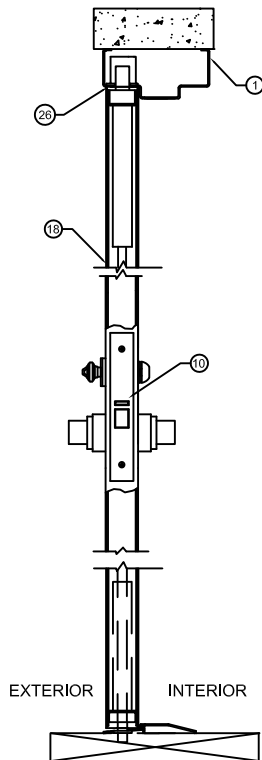
SINGLE DOOR WITH THREE SIDED FRAME



SINGLE DOOR WITH FOUR-SIDED FRAME



NOTE: OUTSWING APPLICATION SHOWN, INSWING SIMILAR.



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STEELCRAFT SINGLE OPENING INSWING & OUTSWING SECTION VIEWS

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HERMES F. NORERO, P.E.
FLORIDA PROFESSIONAL ENGINEER
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FBPE CERT. OF AUTHORIZATION No. 29578

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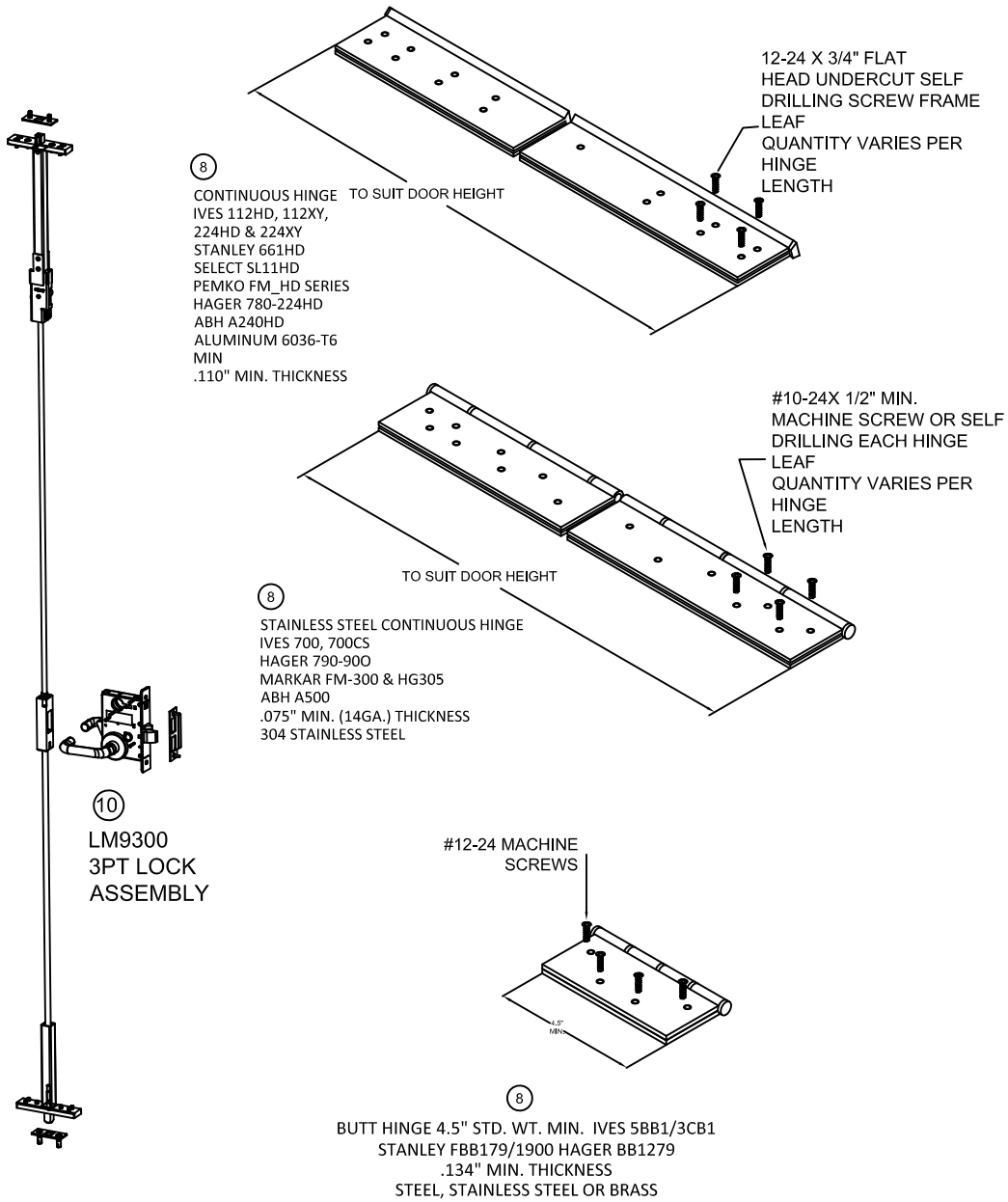
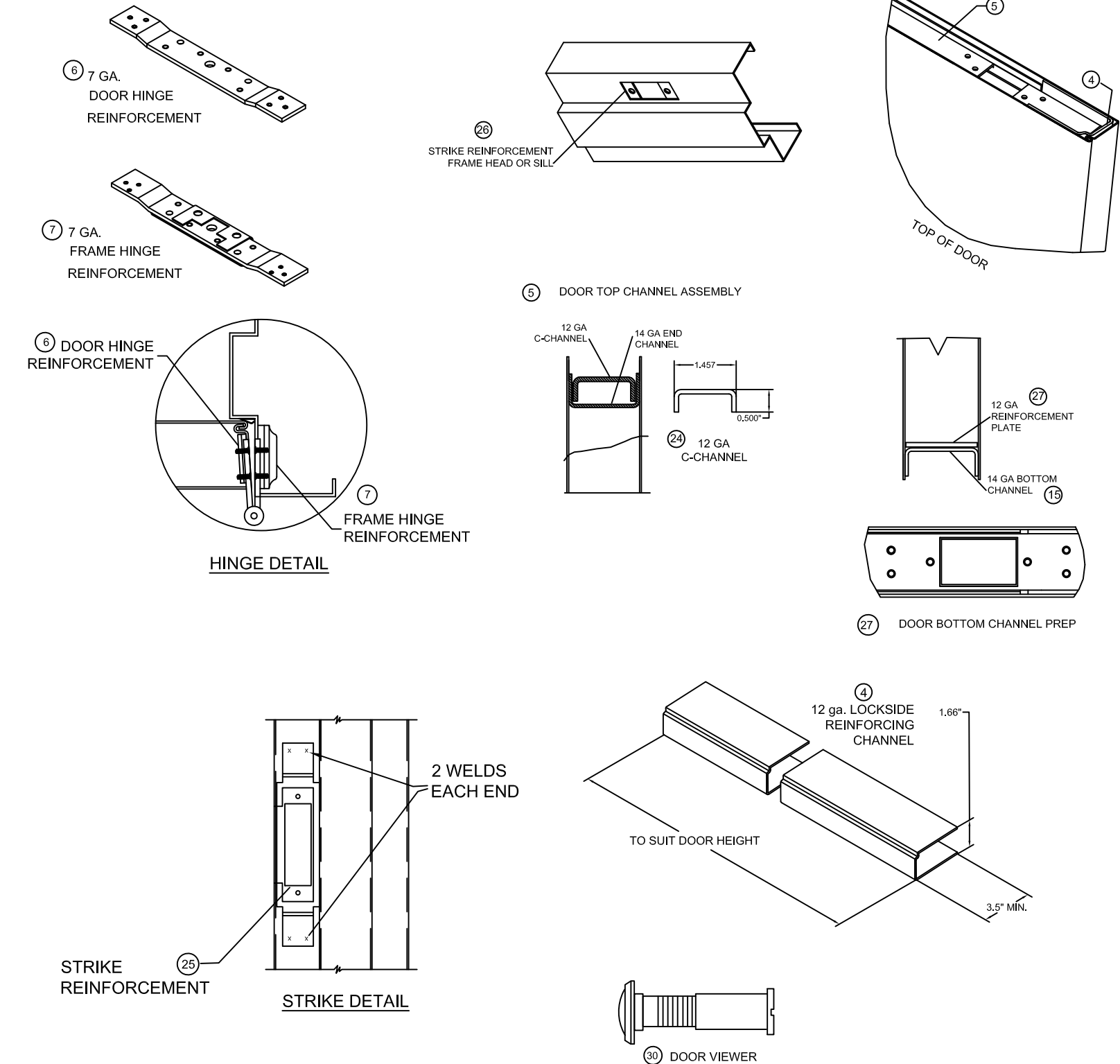
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SCALE: **NTS**

DWG. #: **F9300SF**

SHEET:



NOTES:

1. SEE SHTS. 2, 3, 4, 18, 19 & 20 FOR ELEVATION, MATERIAL AND SIZE
2. SEE SHTS. 7-15 FOR ANCHORING INFORMATION
3. SEE SHTS. 18 & 20 FOR FRAME PROFILE
4. APPROVED HARDWARE INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS
5. HEAD SECTION CAN HAVE 4" FACE DIMENSION WHEN IT'S GROUTED WITH CONCRETE

HINGE NOTES:

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



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LOCKING HARDWARE, REINFORCEMENTS & HINGE DETAILS

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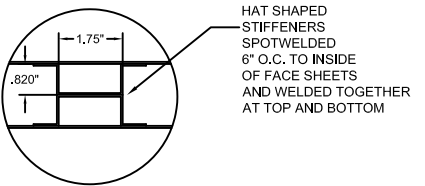
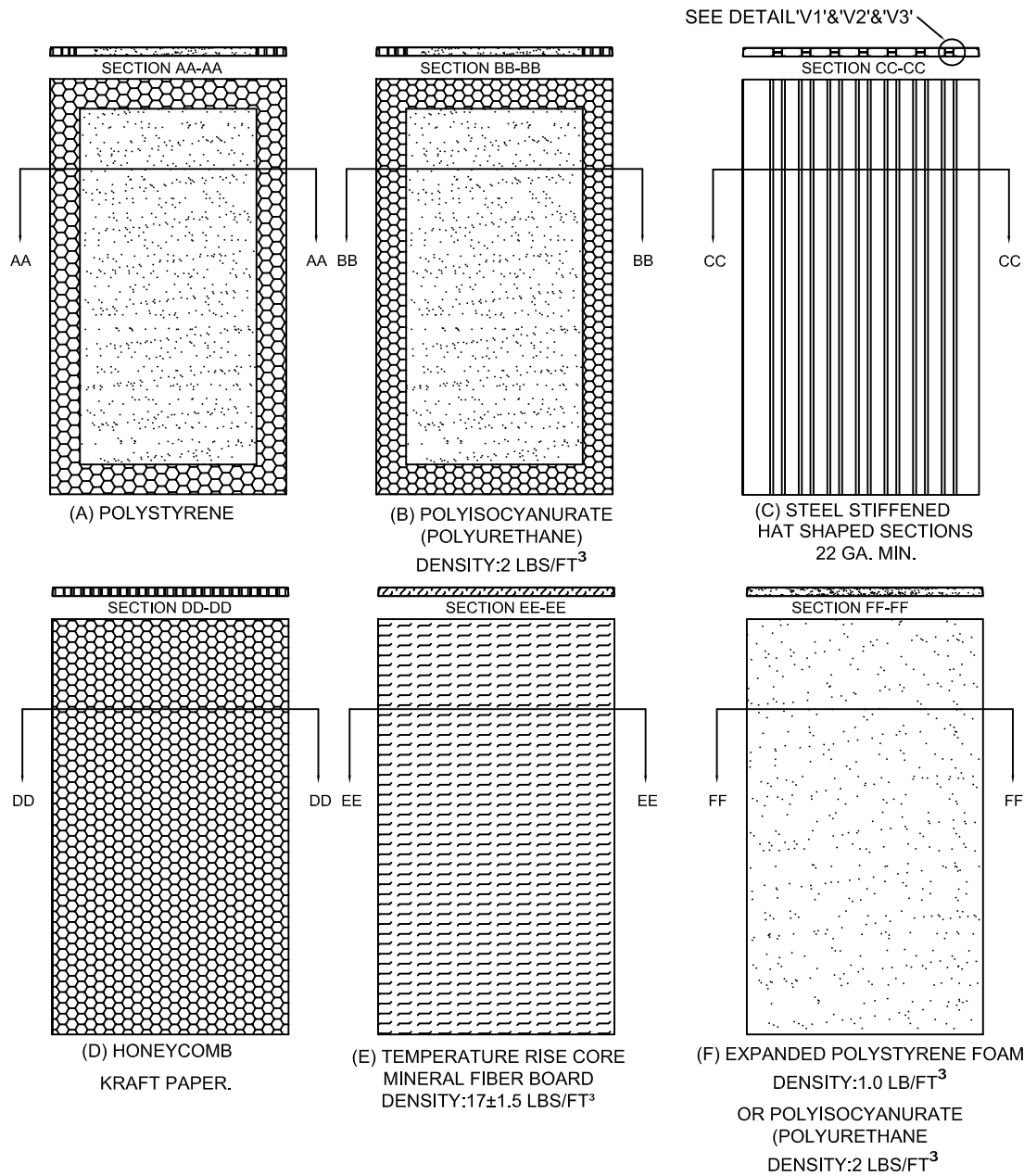
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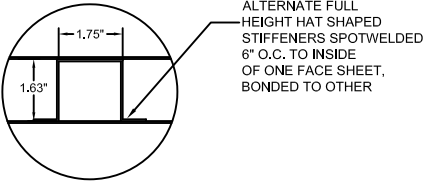
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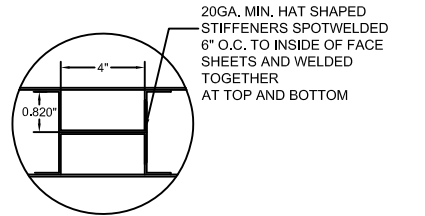
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DETAIL'V1'



DETAIL'V2'



DETAIL'V3'

NOTES:
1. CORE MATERIAL SHOWN WITHOUT DOOR CUTOUTS AND
REINFORCEMENTS.



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CORE OPTIONS

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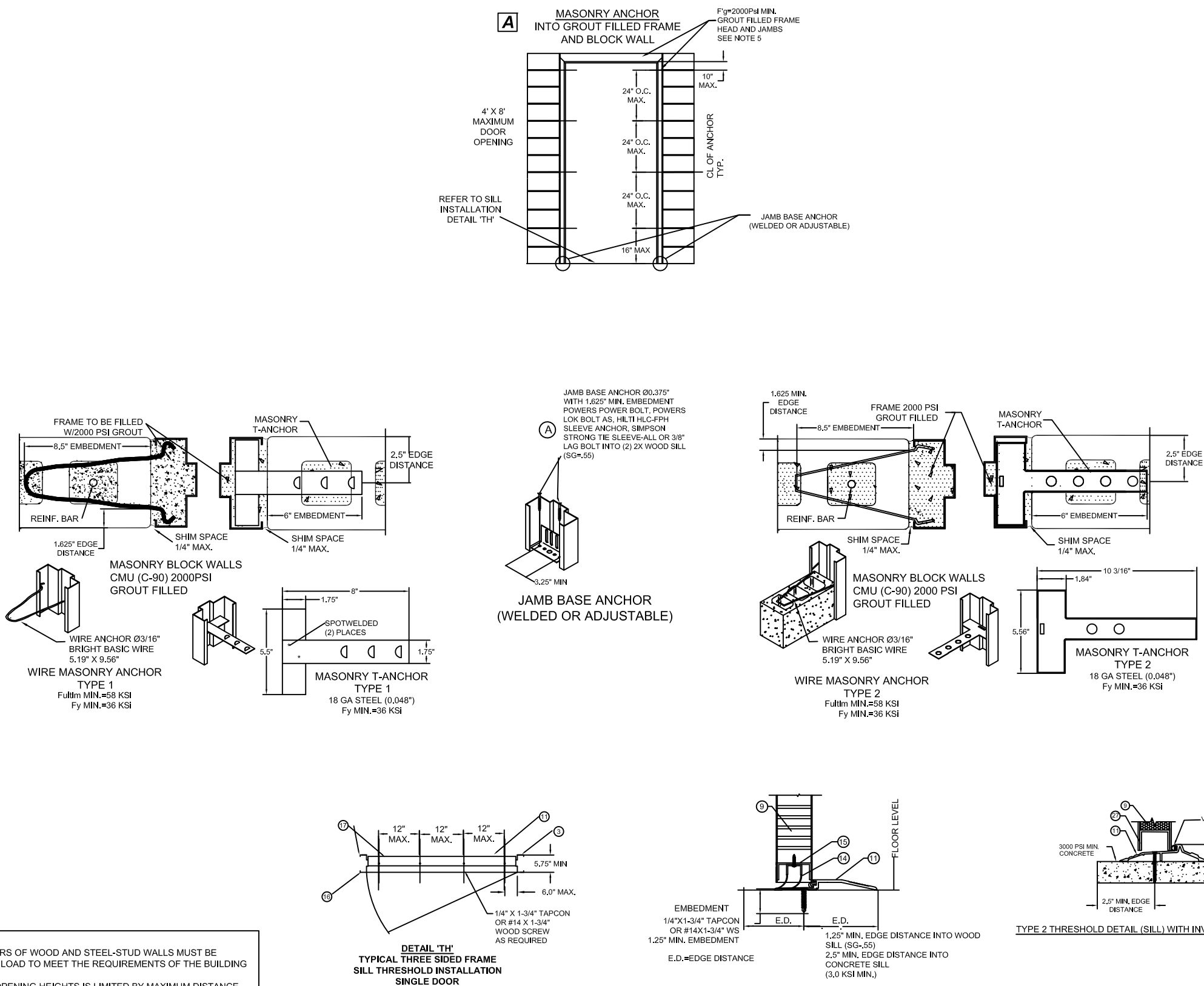
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SCALE: **NTS**

DWG. #: **F9300SF**

SHEET:

NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS. SHOWN ON THIS SHEET.
3. APPLY CAULK AS NEEDED.
4. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD CAN BE USED WITH ALL WALL TYPES.



NOTE: OUTSWING APPLICATION SHOWN, INSWING SIMILAR.



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3-SIDED FRAME ANCHORS - WIRE MASONRY JAMB ANCHOR INTO GROUT FILLED FRAME AND GROUT FILLED BLOCK WALL

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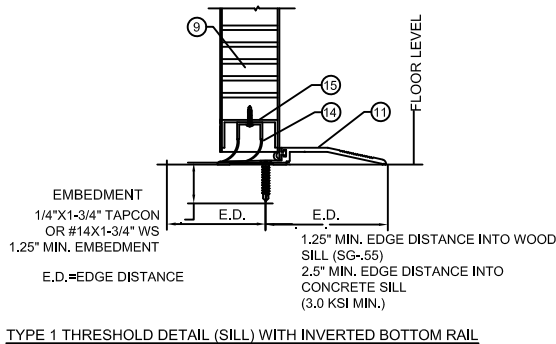
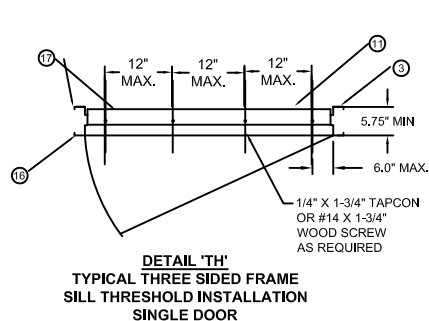
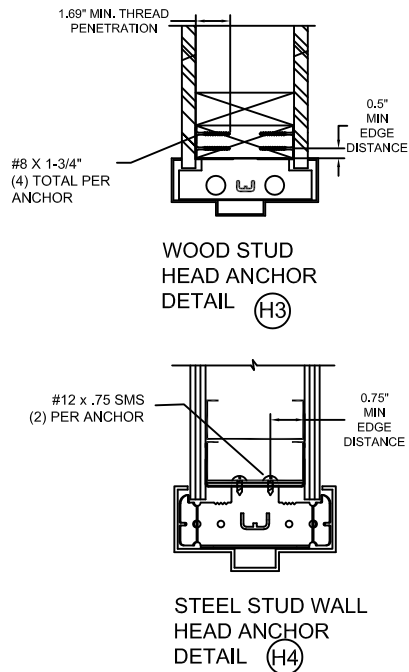
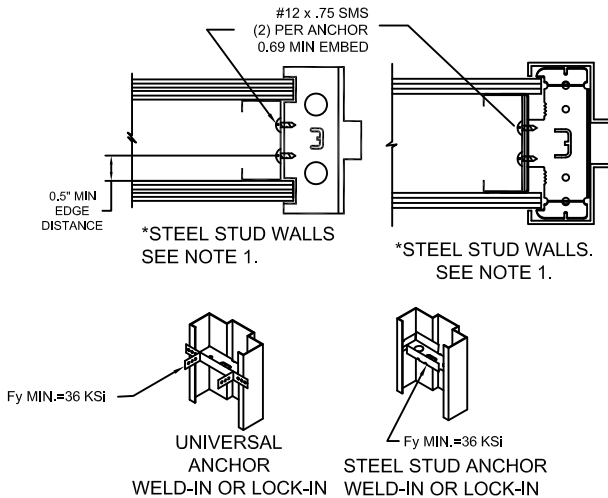
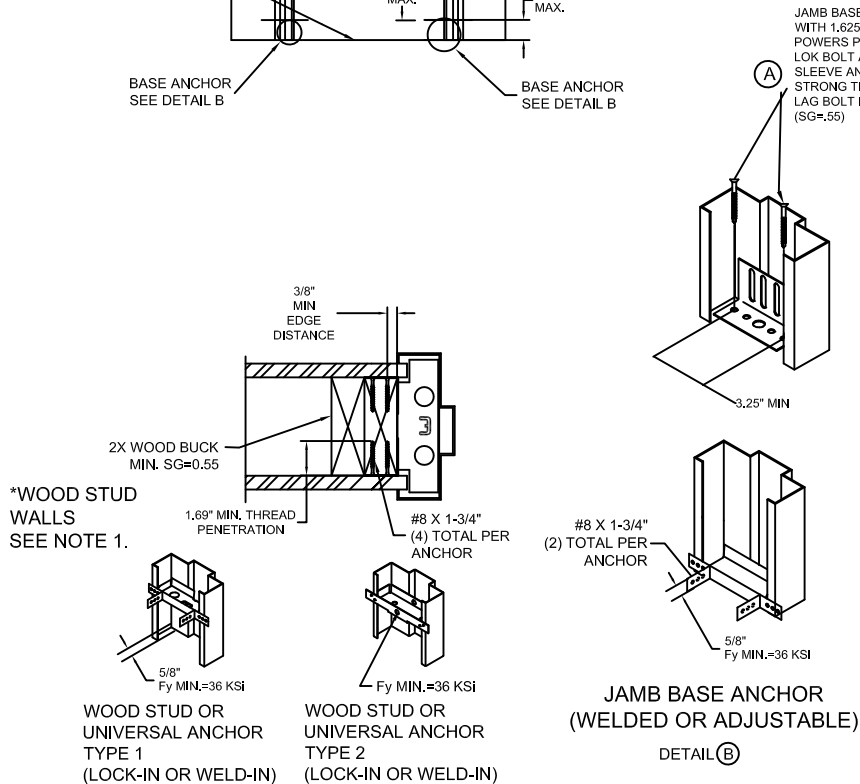
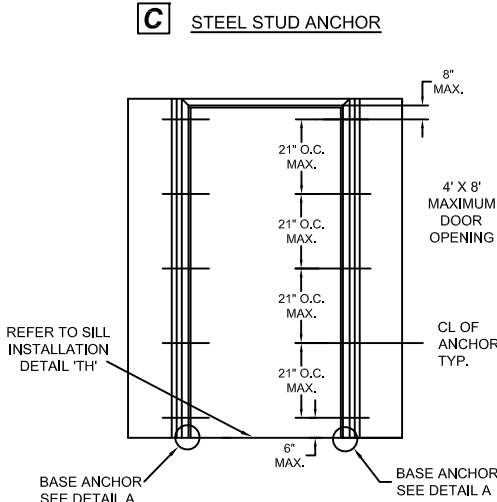
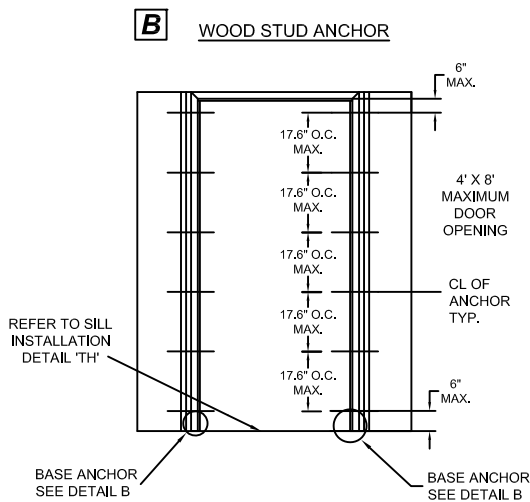


REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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FL #:		FL16740	
DATE:		09.30.2024	
DWG. BY:		CHK. BY:	
JA		HN	
SCALE:		NTS	
DWG. #:		F9300SF	
SHEET:		7	
		OF 20	



NOTES:

1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. APPLY CAULK AS NEEDED.
4. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD CAN BE USED WITH ALL WALL TYPES.

NOTE: OUTSWING APPLICATION SHOWN, INSWING SIMILAR.

HEAD ANCHOR NOTES:
HEAD ANCHOR DETAILS H2, H3 & H4 SHALL BE USED AS APPROPRIATE DEPENDING ON SUBSTRATE CONDITIONS.



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

TITLE: INSWING & OUTSWING SINGLE FLUSH WITH SCHLAGE LM9300 SERIES THREE POINT LOCK (HVHZ)(MISSILE LEVEL E IMPACT)

3-SIDED FRAME ANCHORS - WOOD STUD JAMB ANCHOR & STEEL STUD JAMB ANCHOR

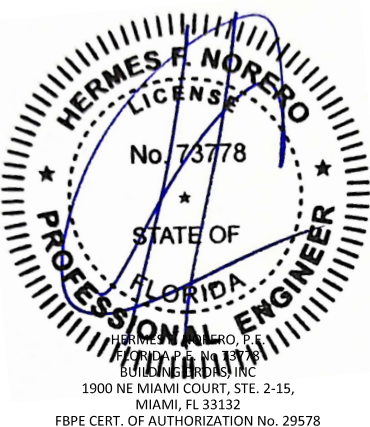
PREPARED BY:

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



REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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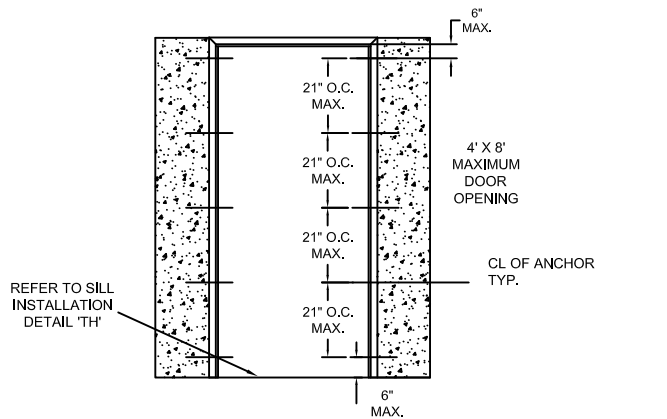


FL #:	FL16740
DATE:	09.30.2024
DWG. BY:	JA
CHK. BY:	HN
SCALE:	NTS
DWG. #:	F9300SF
SHEET:	8

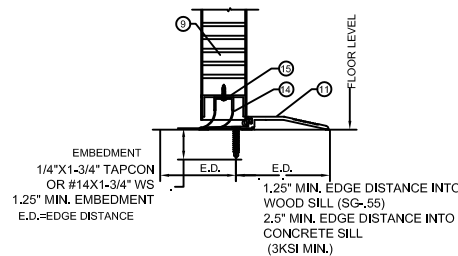
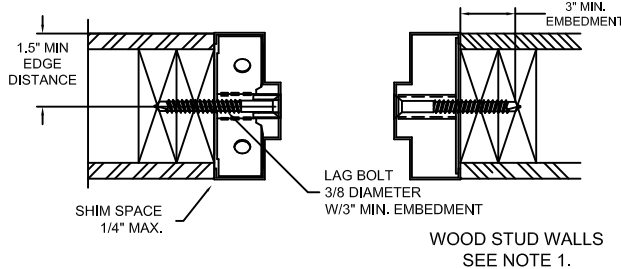
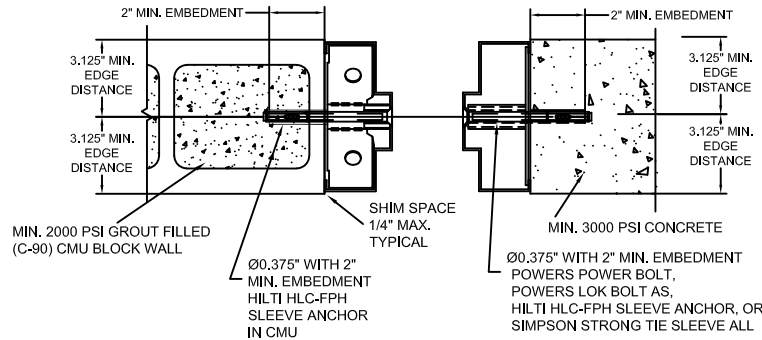
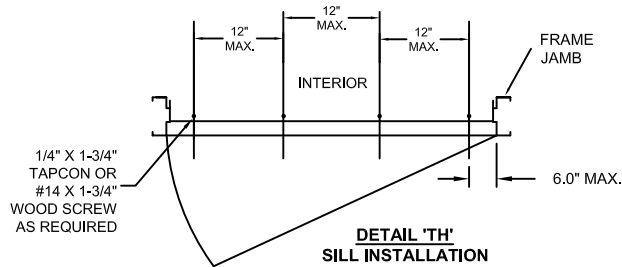
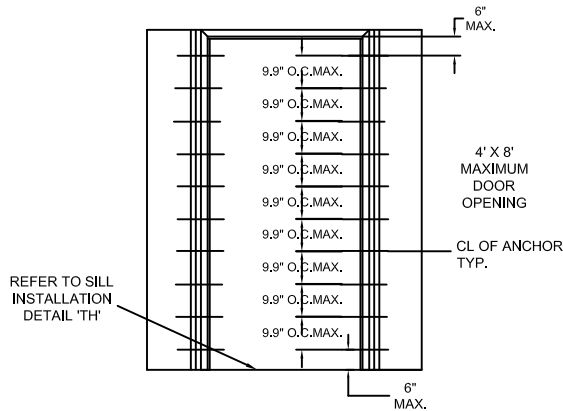
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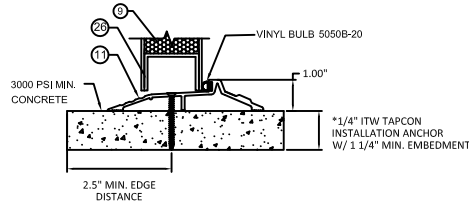
D EXISTING MASONRY ANCHOR (EMA)
INTO CONCRETE WALL OR CMU



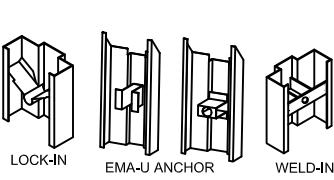
E EXISTING MASONRY ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL



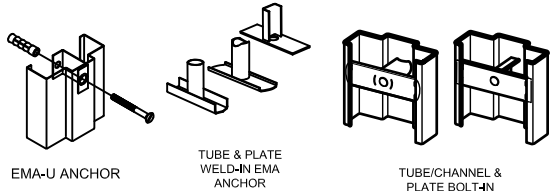
TYPE 1 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL



TYPE 2 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL



TYPE 1 EMA ANCHORS



TYPE 2 EMA ANCHORS

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

NOTE: OUTSWING APPLICATION
SHOWN, INSWING SIMILAR.

SEE SHEET 7 & 8 FOR HEAD
INSTALLATION DETAILS, H1,
H2 AND H3



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

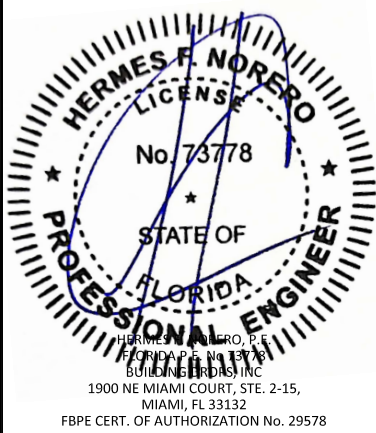
TITLE: INSWING & OUTSWING SINGLE FLUSH WITH
SCHLAGE LM9300 SERIES THREE POINT LOCK
(HVHZ)(MISSILE LEVEL E IMPACT)

3-SIDED FRAME ANCHORS - EXISTING MASONRY
JAMB ANCHOR W/ LAG SCREW INTO WOOD
STUD WALL & INTO CONCRETE WALL OR CMU

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

REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:
FL16740

DATE: 09.30.2024

DWG. BY: JA
CHK. BY: HN

SCALE: NTS

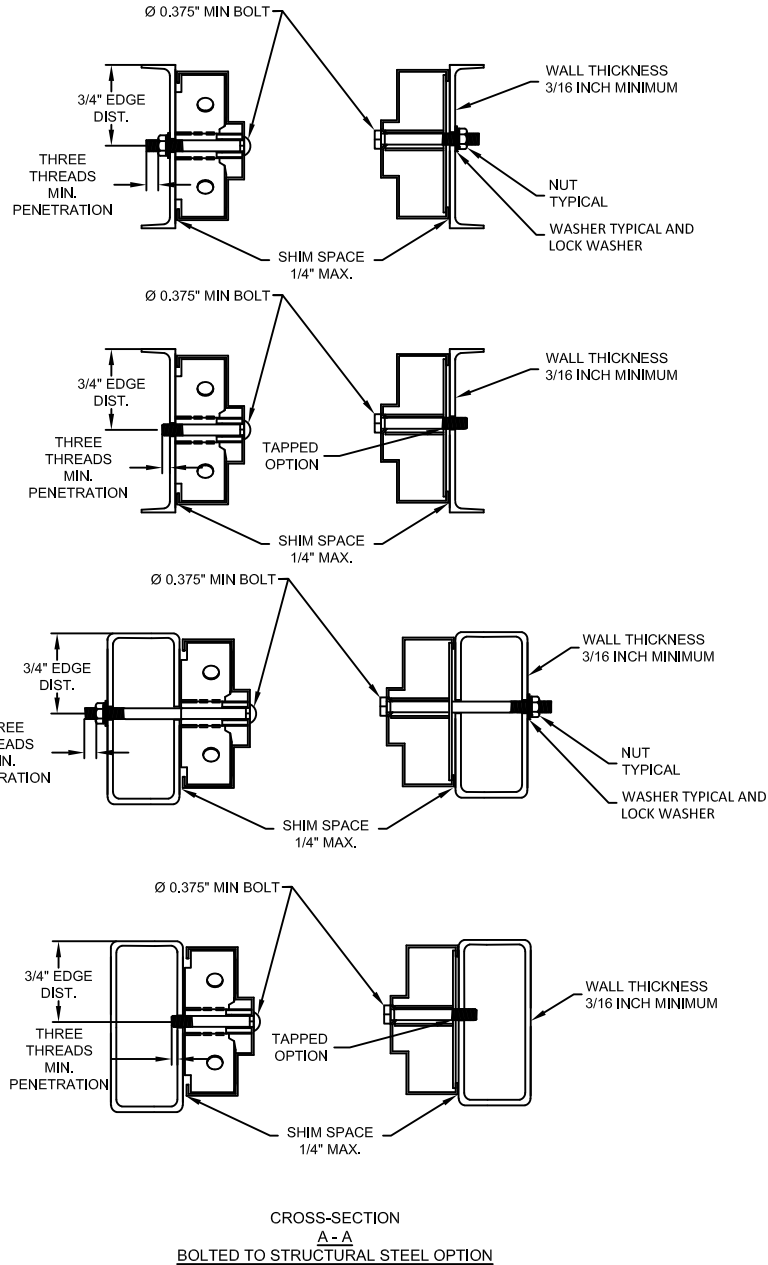
DWG. #: F9300SF

SHEET:

9

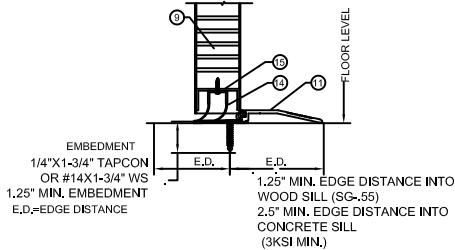
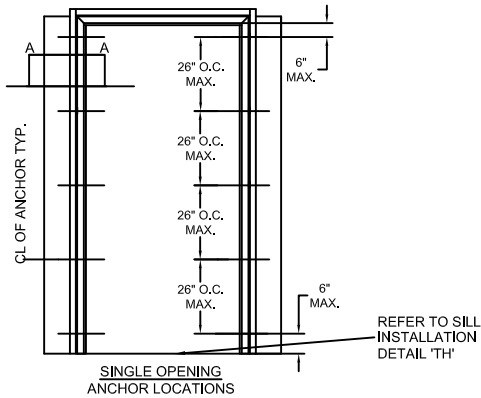
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F FRAMES BOLTED TO BUILDING STRUCTURE



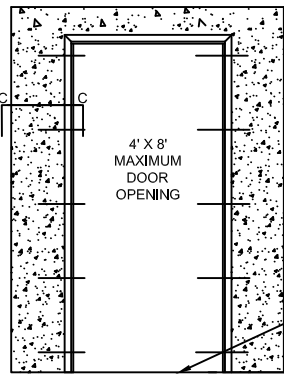
NOTE:
1. 3/8" BOLTS AND NUTS TO BE MIN. SAE GRADE 2 OR EQUIVALENT.

NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS. SHOWN ON THIS SHEET.
3. APPLY CAULK AS NEEDED.
4. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD CAN BE USED WITH ALL WALL TYPES.

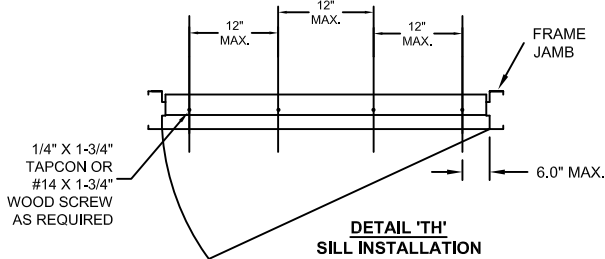


TYPE 1 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL

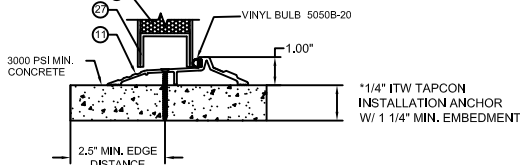
G POURED CONCRETE
TILT UP WALL



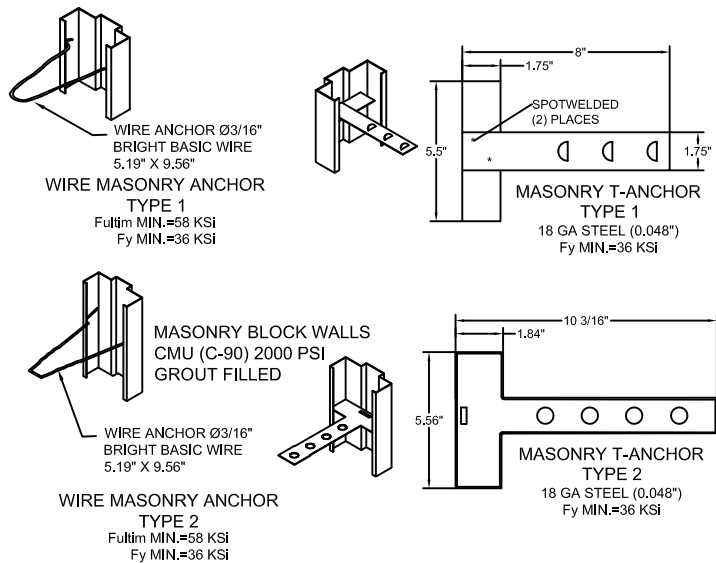
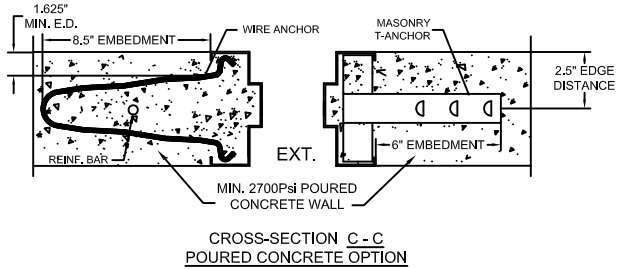
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POURED CONCRETE OPTION



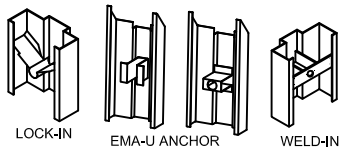
DETAIL 'TH'
SILL INSTALLATION



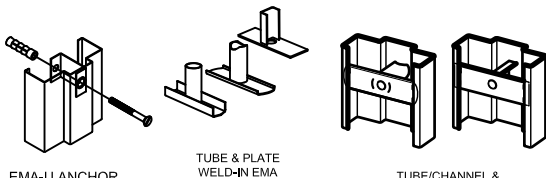
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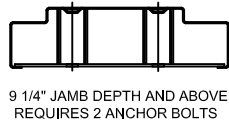
NOTE: OUTSWING APPLICATION SHOWN, INSWING SIMILAR.



TYPE 1 EMA ANCHORS



TYPE 2 EMA ANCHORS



HEAD ANCHOR NOTES:
HEAD ANCHOR DETAILS H2, H3 & H4 SHALL BE USED AS APPROPRIATE DEPENDING ON SUBSTRATE CONDITIONS.



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

TITLE: INSWING & OUTSWING SINGLE FLUSH WITH SCHLAGE LM9300 SERIES THREE POINT LOCK (HVHZ)(MISSILE LEVEL E IMPACT)

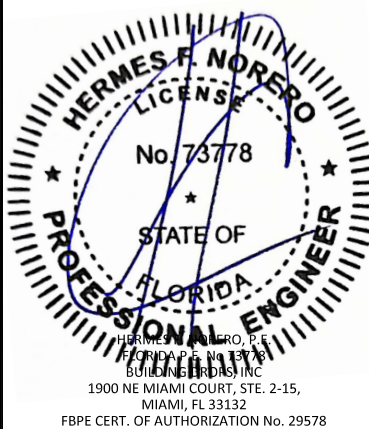
3-SIDED FRAME ANCHORS - EXISTING WALL JAMB ANCHOR W/ LAG SCREW INTO WOOD STUD WALL & INTO CONCRETE WALL OR CMU

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
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WEB: www.buildingdrops.com



REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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FL #:
FL16740

DATE: **09.30.2024**

DWG. BY: **JA** CHK. BY: **HN**

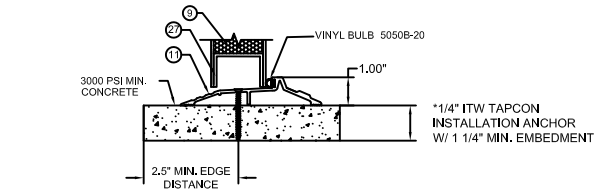
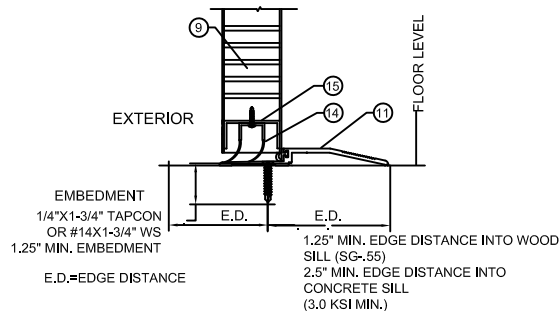
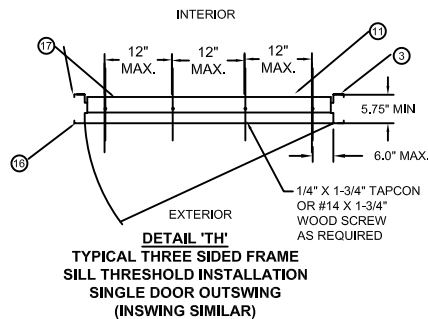
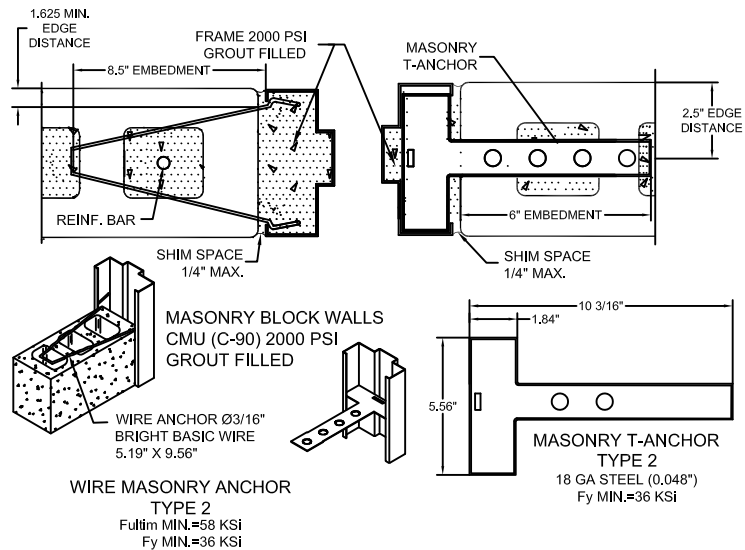
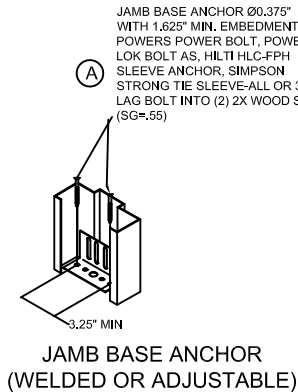
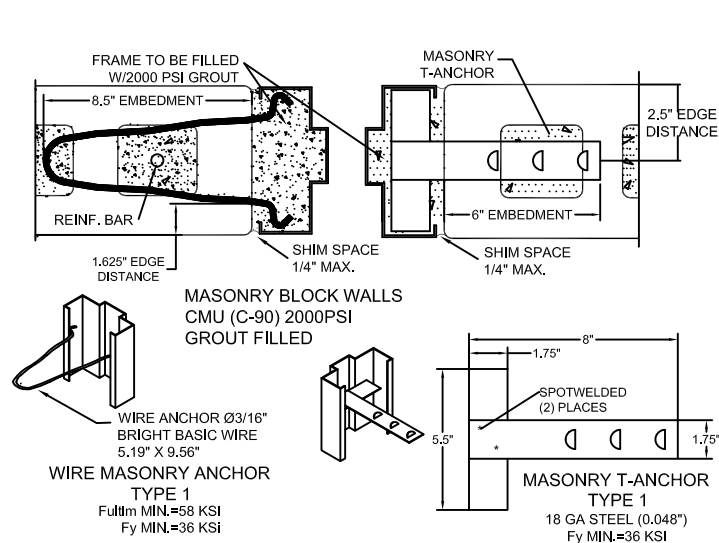
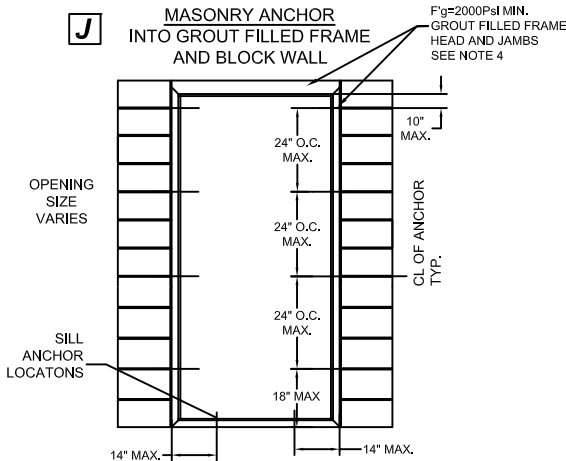
SCALE: **NTS**

DWG. #: **F9300SF**

SHEET:

10

OF 20



NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. APPLY CAULK AS NEEDED.
4. FRAMES WITH 4\"/>

NOTE: OUTSWING APPLICATION SHOWN, INSWING SIMILAR.



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

TITLE: INSWING & OUTSWING SINGLE FLUSH WITH SCHLAGE LM9300 SERIES THREE POINT LOCK (HVHZ)(MISSILE LEVEL E IMPACT)

4-SIDED FRAME ANCHORS - WIRE & MASONRY T-JAMB ANCHOR INTO GROUT FILLED FRAME AND GROUT FILLED BLOCK WALL

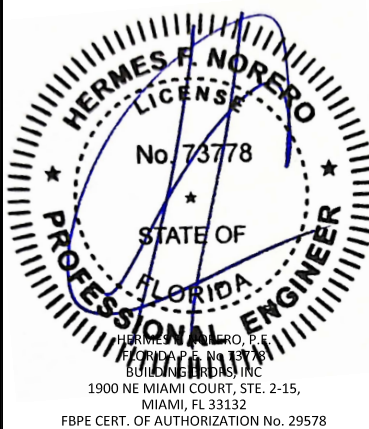
PREPARED BY:

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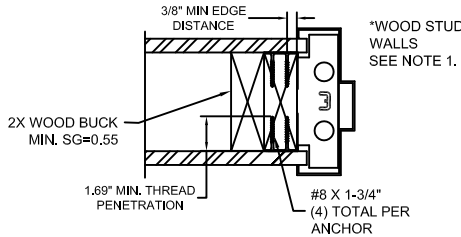
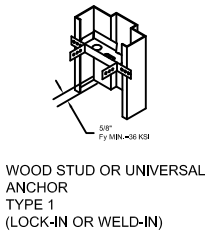
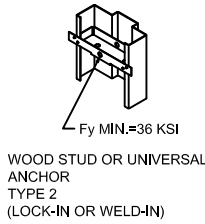
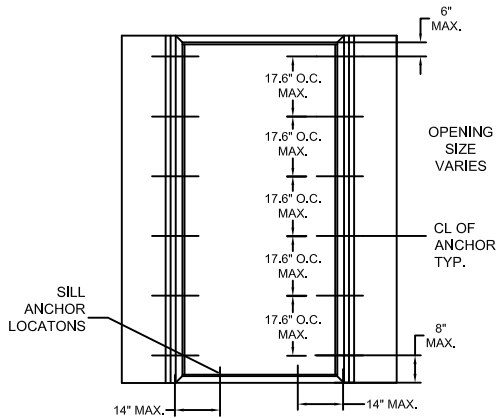
REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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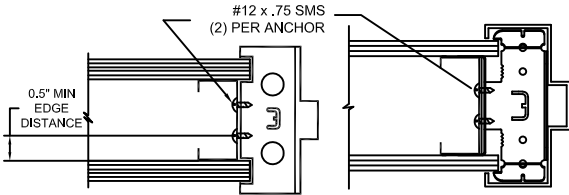
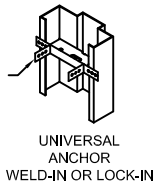
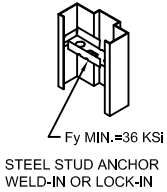
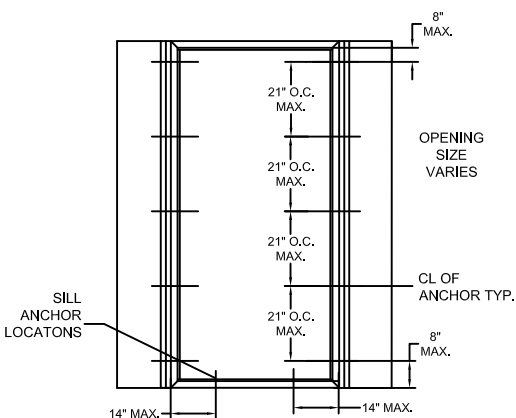


FL #:	FL16740
DATE:	09.30.2024
DWG. BY:	JA
CHK. BY:	HN
SCALE:	NTS
DWG. #:	F9300SF
SHEET:	11

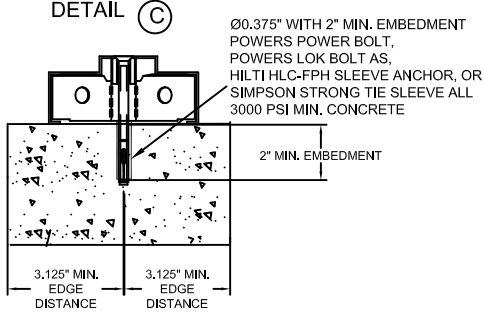
K WOOD STUD ANCHOR



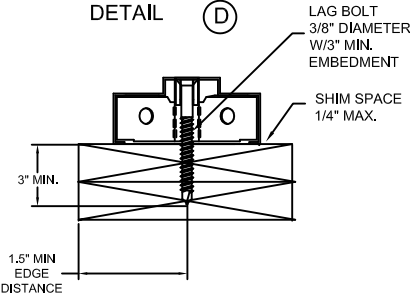
L STEEL STUD ANCHOR



SILL ANCHOR DETAIL **C**



SILL ANCHOR DETAIL **D**



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

NOTES:
1. STRUCTURAL MEMBERS MUST BE DESIGNED TO CARRY APPROPRIATE LOAD, 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. BOTH JAMBS MUST HAVE EQUAL NUMBER OF ANCHORS.
4. APPLY CAULK AS NEEDED.
5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD MAY BE USED WITH ALL JAMB ANCHOR OPTIONS.



ALLEGION-SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
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4-SIDED FRAME ANCHORS - WOOD STUD JAMB ANCHOR & STEEL STUD JAMB ANCHOR

PREPARED BY:

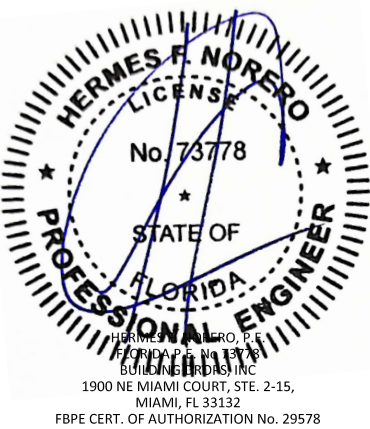
BUILDING DROPS, INC.

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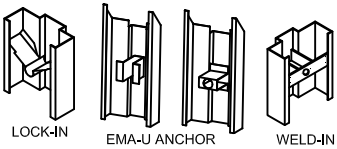
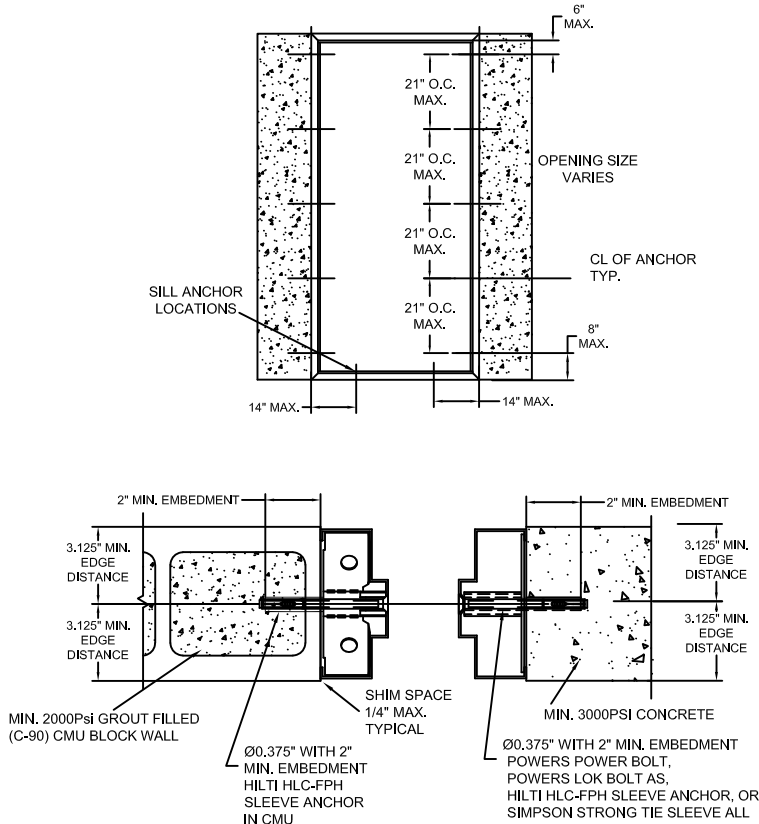
DWG. #: **F9300SF**

SHEET:

12



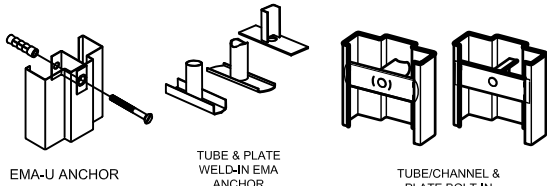
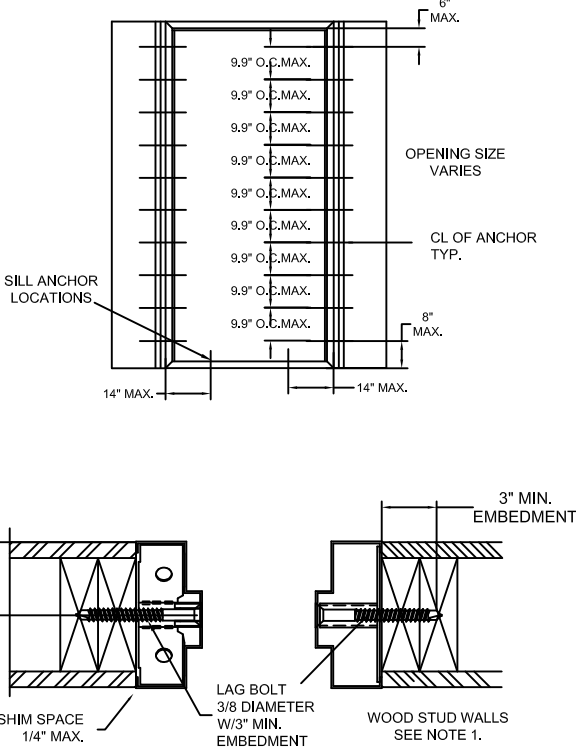
EXISTING WALL ANCHOR (EMA)
INTO CONCRETE WALL OR CMU



TYPE 1 EMA ANCHORS



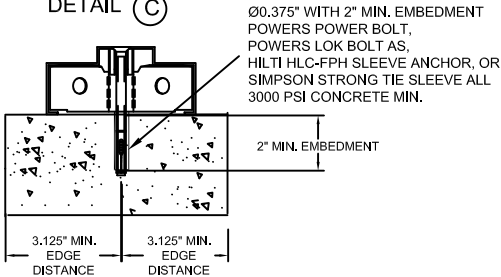
EXISTING WALL ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL



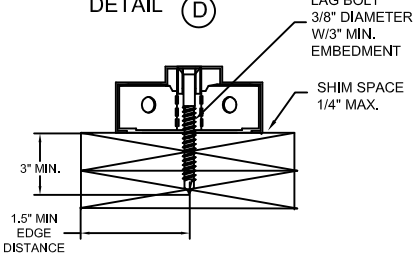
TYPE 2 EMA ANCHORS

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

SILL ANCHOR
DETAIL (C)



SILL ANCHOR
DETAIL (D)



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

TITLE: INSWING & OUTSWING SINGLE FLUSH WITH
SCHLAGE LM9300 SERIES THREE POINT LOCK
(HVHZ)(MISSILE LEVEL E IMPACT)

4-SIDED FRAME ANCHORS - EXISTING MASONRY
JAMB ANCHOR W/ LAG SCREW INTO WOOD
STUD WALL & INTO CONCRETE WALL OR CMU

PREPARED BY:

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

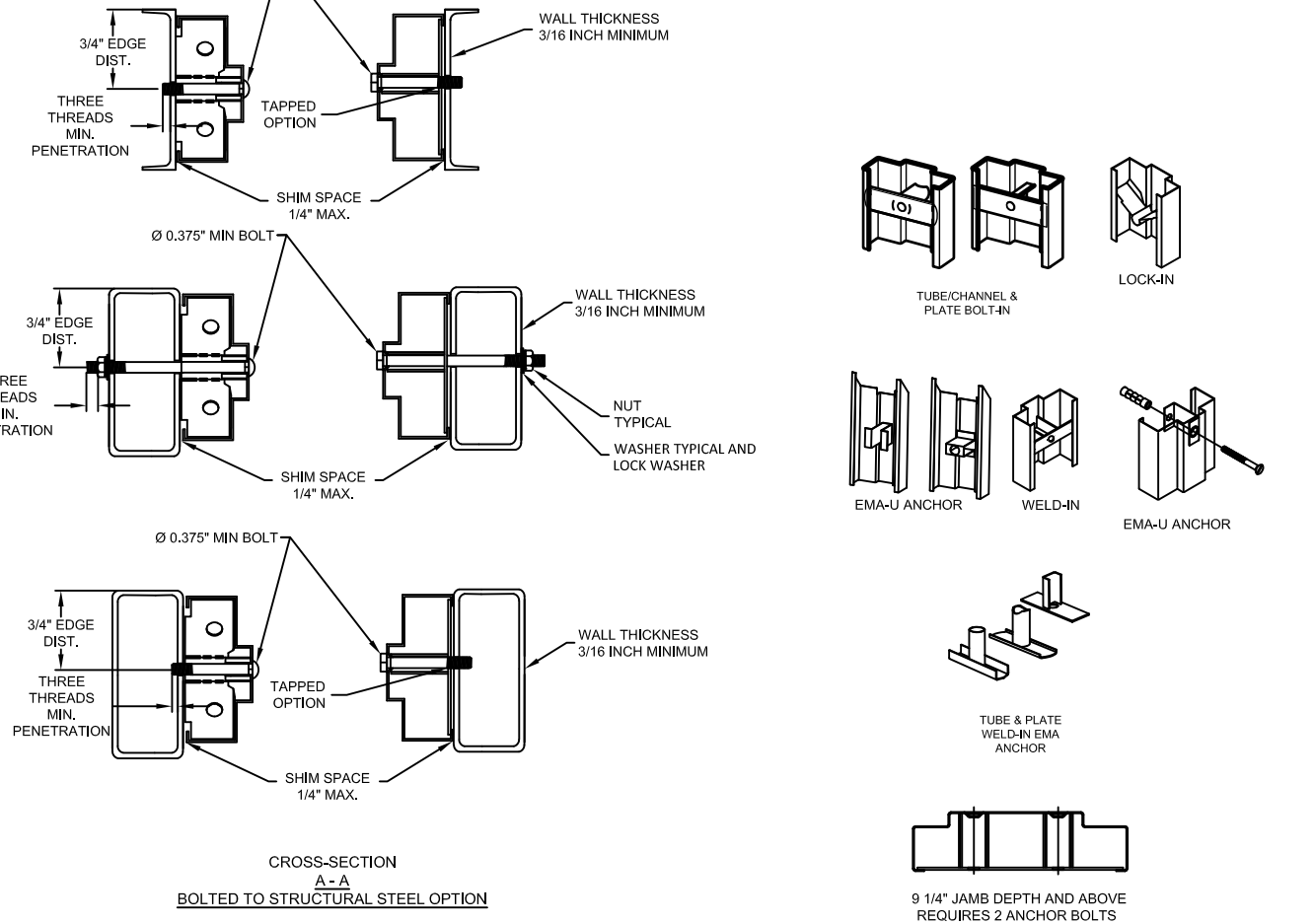
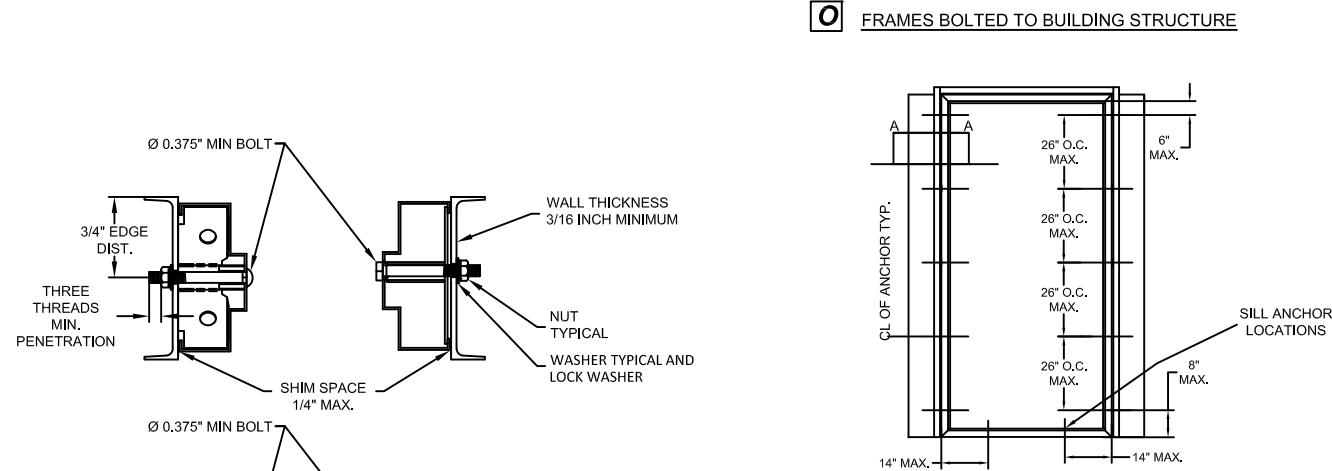


REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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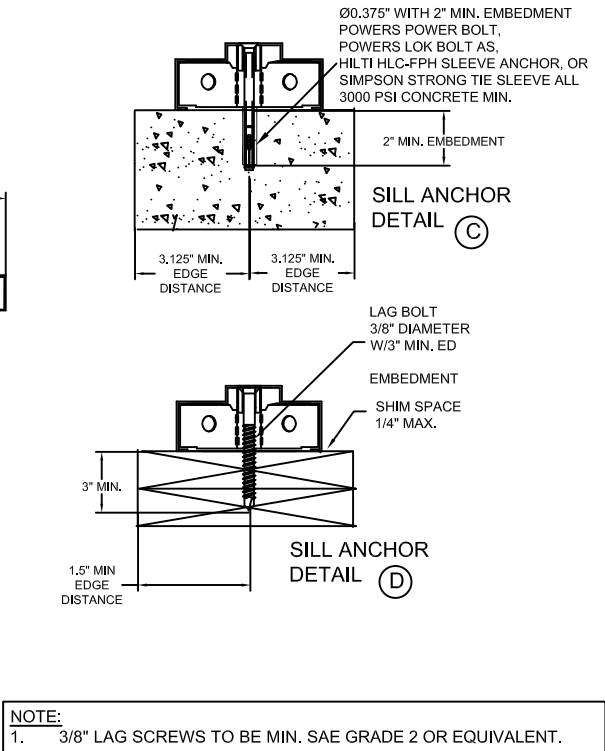
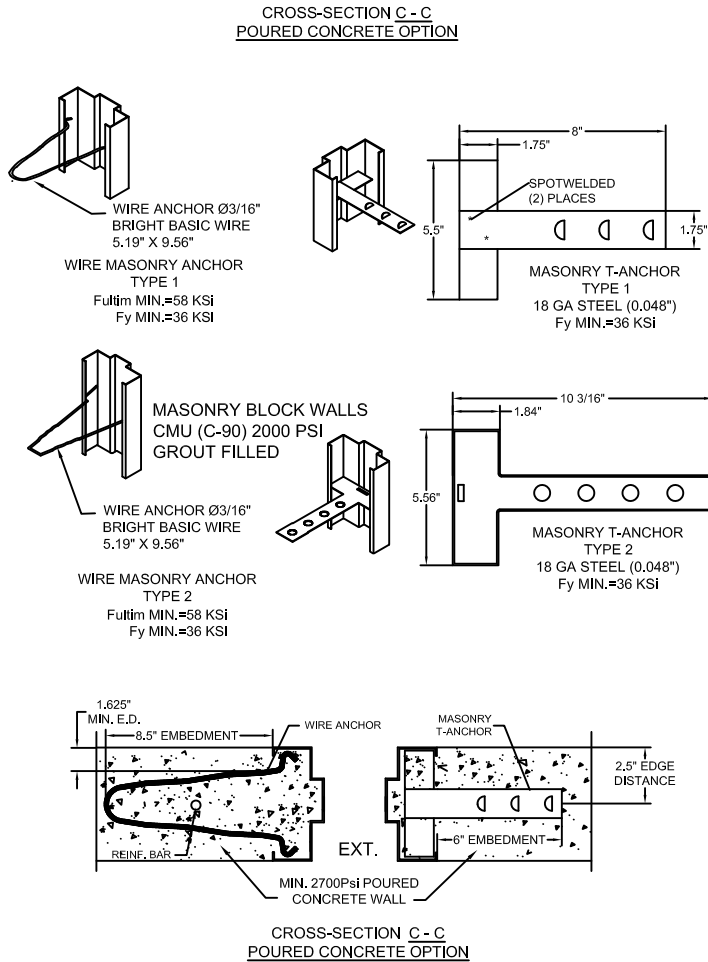
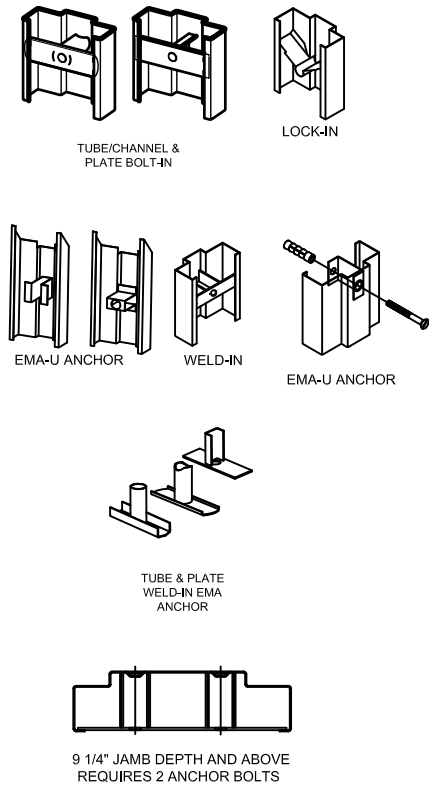


FL #:	FL16740
DATE:	09.30.2024
DWG. BY:	JA
CHK. BY:	HN
SCALE:	NTS
DWG. #:	F9300SF
SHEET:	13



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

NOTES:
1. STRUCTURAL MEMBERS MUST BE DESIGNED TO CARRY APPROPRIATE LOAD, 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. BOTH JAMBS MUST HAVE EQUAL NUMBER OF ANCHORS.
4. APPLY CAULK AS NEEDED.
5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD MAY BE USED WITH ALL JAMB ANCHOR OPTIONS.



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



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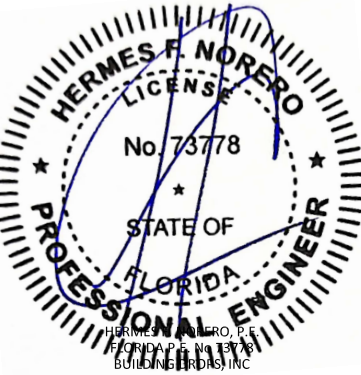
4-SIDED FRAME ANCHORS - FRAMES BOLTED TO BUILDING STRUCTURE & POURED CONCRETE TILT WALL CONSTRUCTION

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
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FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15,
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL16740

DATE: **09.30.2024**

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JA

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HN

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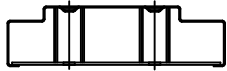
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OF 20

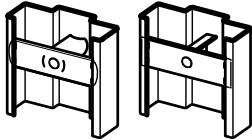
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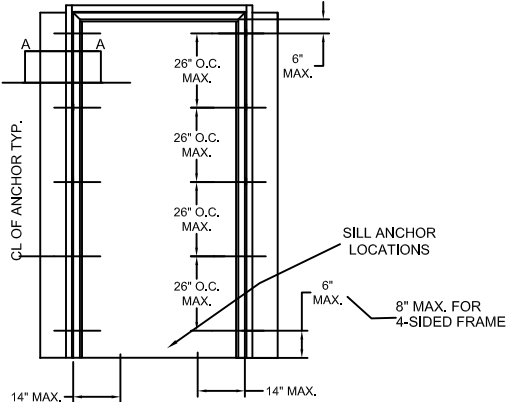
9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



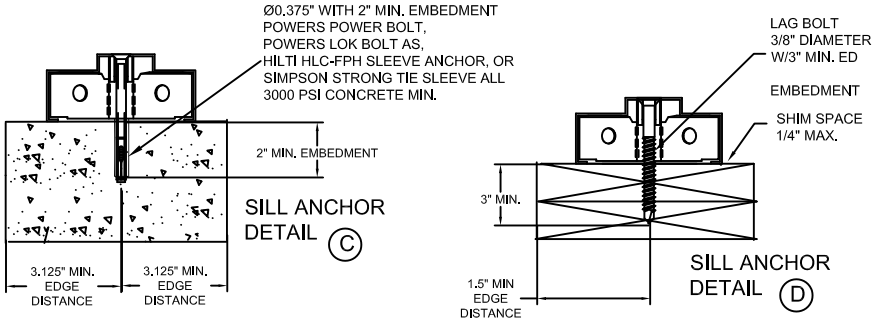
TUBE/CHANNEL &
PLATE BOLT-IN

Q

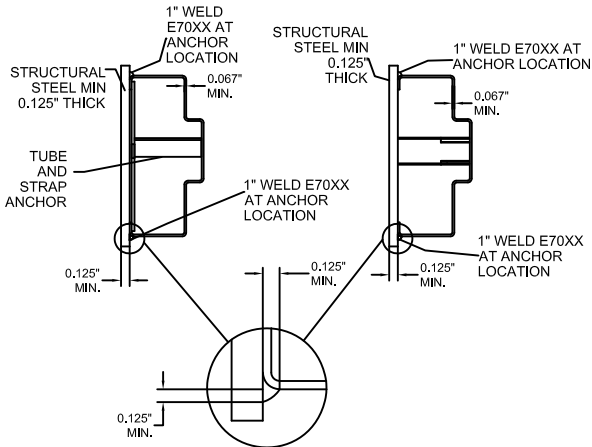
WELDED ANCHOR
SHIM OR STEEL BUILDING
STRUCTURE



NOTES:
- 3-SIDED FRAME SHOWN, 4-SIDED FRAME
REQUIRES SILL ANCHORS AS SHOWN ON
THE ELEVATION.
- 4-SIDED FRAME MAY ALSO BE WELDED TO
STEEL STRUCTURE AT THE SILL



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



CROSS-SECTION
A-A
WELDED TO STRUCTURAL STEEL OPTION



ALLEGION-SCHLAGE LOCK COMPANY, LLC
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SCHLAGE LM9300 SERIES THREE POINT LOCK
(HVHZ)(MISSILE LEVEL E IMPACT)

3-SIDED OR 4-SIDED FRAME ANCHORS -
FRAMES WELDED TO STEEL STRUCTURE
BUILDING

PREPARED BY:

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SCALE: **NTS**

DWG. #: **F9300SF**

SHEET:

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OF 20

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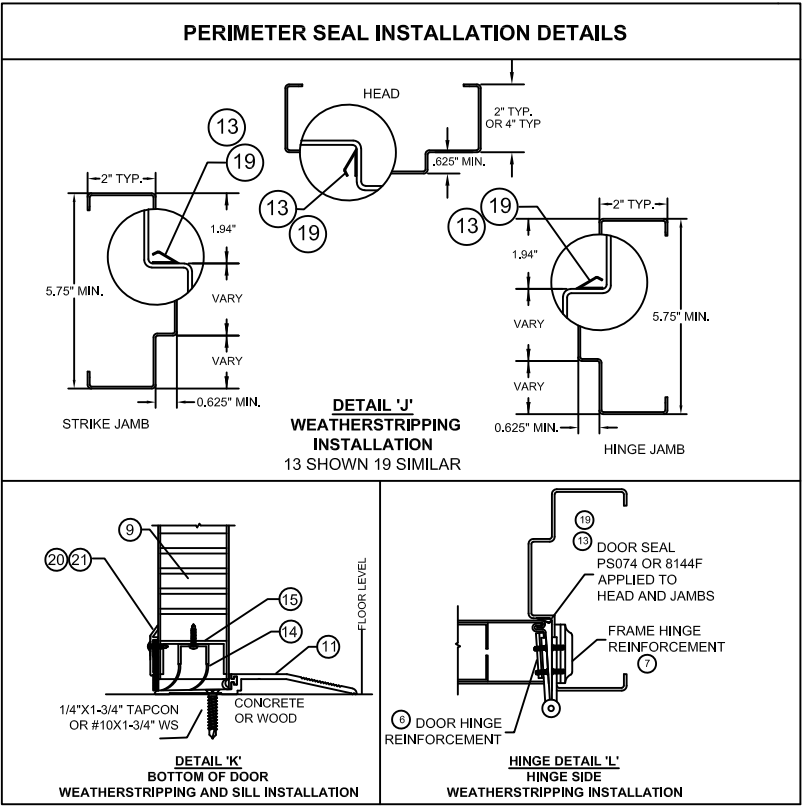
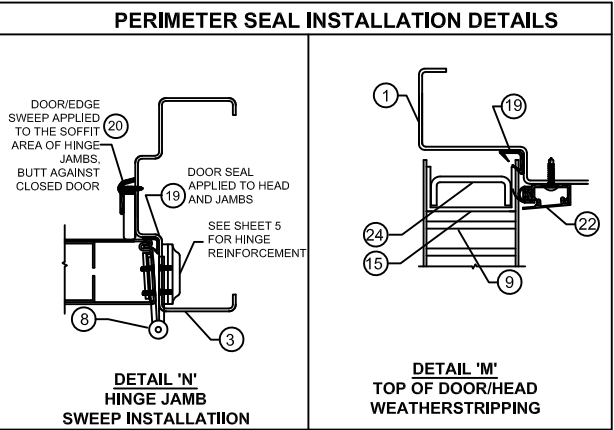
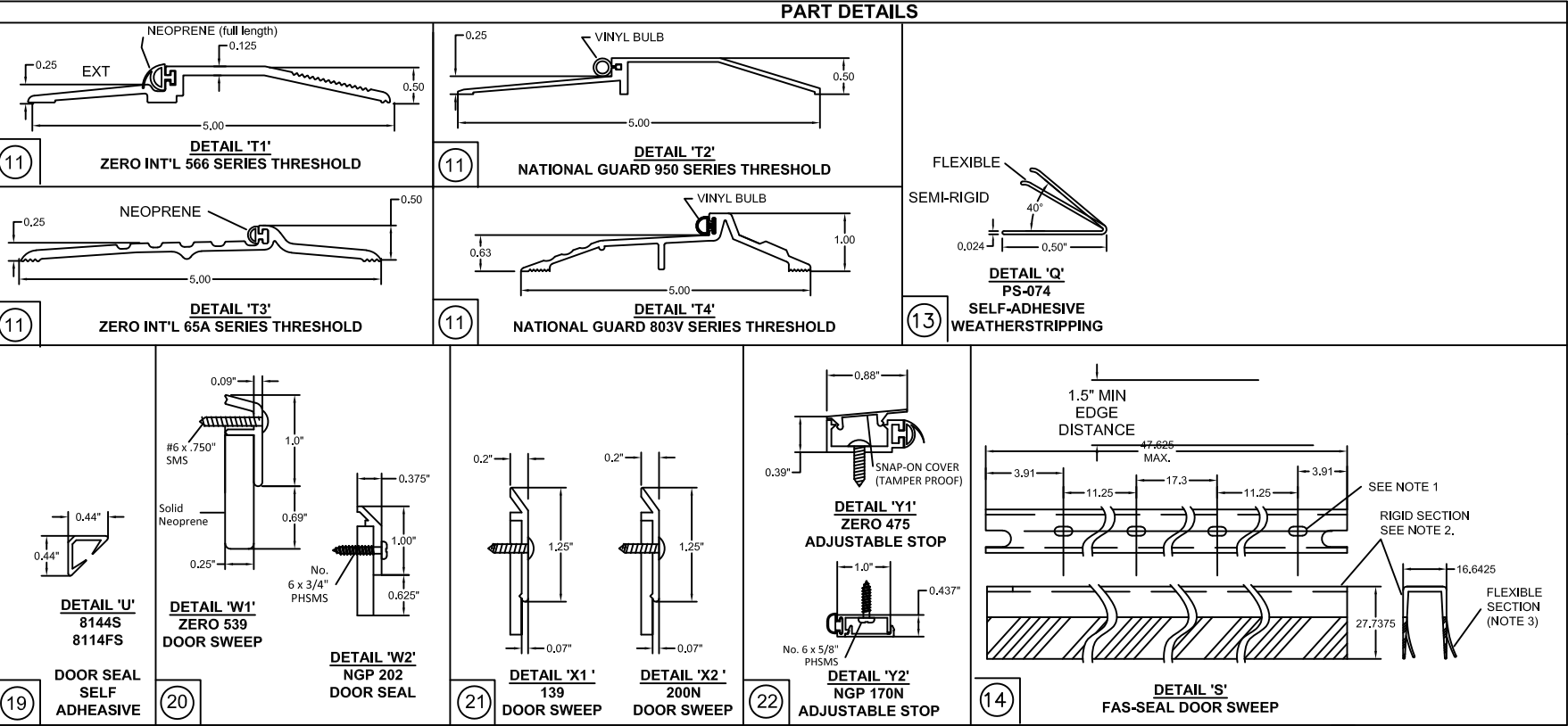
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TABLE 2.

MINIMUM PERIMETER SEAL OPTIONS				
ITEM NUMBER SHT. 3 TABLE 1	DESCRIPTION	MODEL No./ MANUFACTURER	PART DETAIL	INSTALLATION DETAIL
11	THRESHOLD	566/ZERO INT'L	'T1'	'K'
		950/NGP	'T2'	
		65A ZERO INT'L	'T3'	
		803V NGP	'T4'	
14	FAS-SEAL SWEEP	REPUBLIC	'S'	'K'
19 OR 13	SELF ADHESIVE DOOR SEAL	8144S, 8144FS/ZERO INT'L	'U'	'J', 'M' & 'N'
		PS074/REPUBLIC	'Q'	

TABLE 3.

OPTIONAL PERIMETER SEALS				
ITEM NUMBER SHT. 3 TABLE 1	DESCRIPTION	MODEL No. MANUFACTURER	PART DETAIL	INSTALLATION DETAIL
20 OR 21	DOOR SWEEP	539/ZERO INT'L	'W1'	'K'
		202N/NGP	'W2'	
		139/ZERO INT'L	'X1'	
		200N/NGP	'X2'	
20	DOOR SWEEP APPLIED TO JAMBS	539/ZERO INT'L	'W1'	'N'
		202N/NGP	'W2'	
22	ADJUSTABLE STOP	475/ZERO INT'L	'Y1'	'M'
		170N/NGP	'Y2'	



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
 2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
 3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
 4. STEELCRAFT INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (14), DOOR SEAL (13, 19A, 19B, 19C, 19D, 19E) AND THRESHOLD (11A, 11B, 11C) AS APPLICABLE.
 5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH CAULK
 6. INSTALL THRESHOLD INTO BEAD OF CAULK FULL LENGTH OF SILL
 7. REPUBLIC INSTALLATIONS REQUIRE DOOR SEAL (13, 19A, 19B, 19C, 19D, 19E) AND THRESHOLD (11A, 11B, 11C) AS APPLICABLE.
 8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE



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SCHLAGE LM9300 SERIES THREE POINT LOCK
(HVHZ)(MISSILE LEVEL E IMPACT)

GASKETING DETAILS - PERIMETER SEAL

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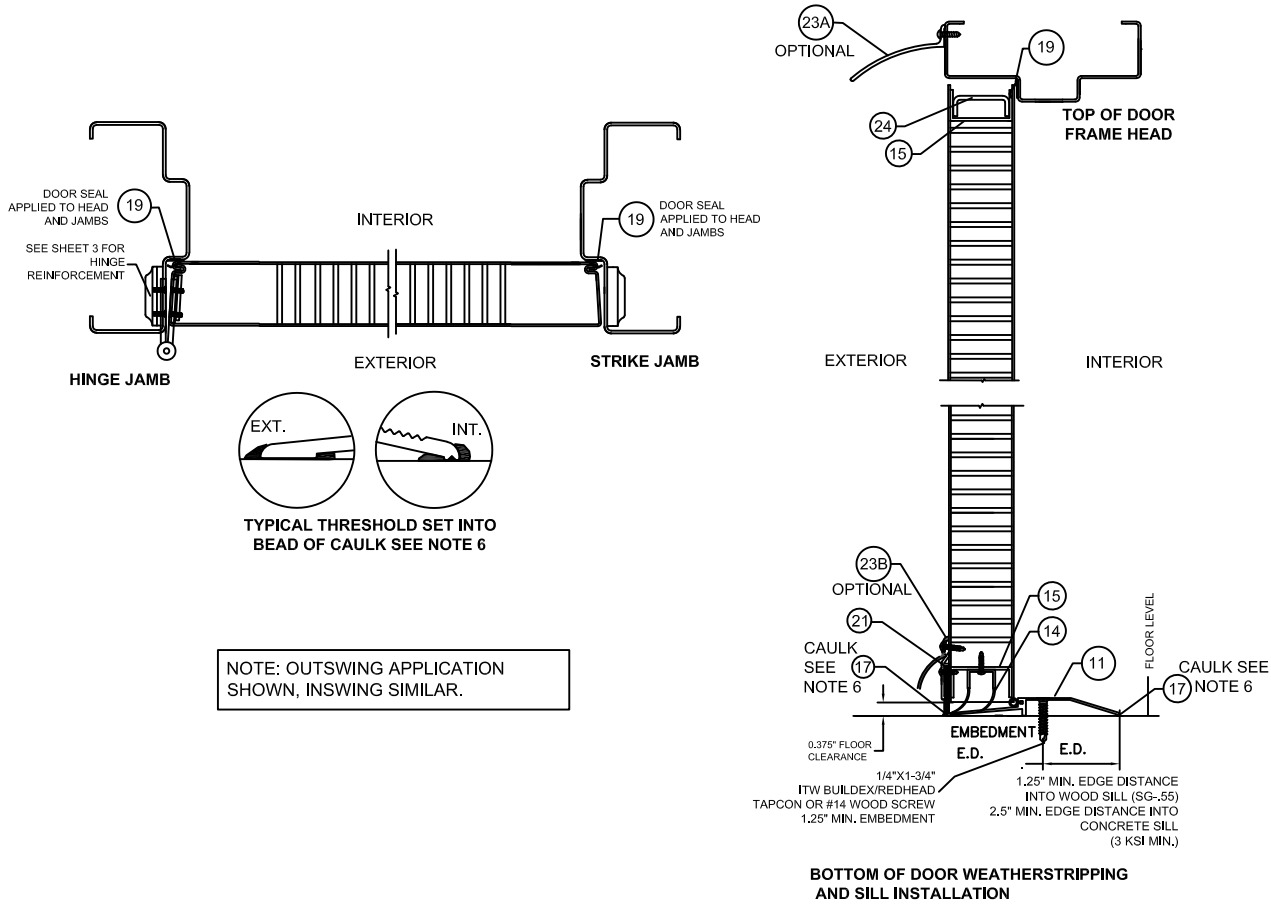
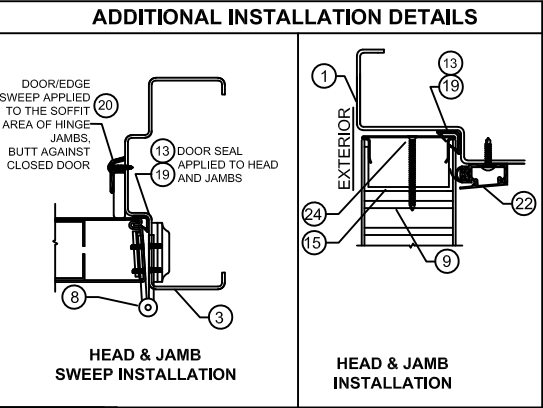
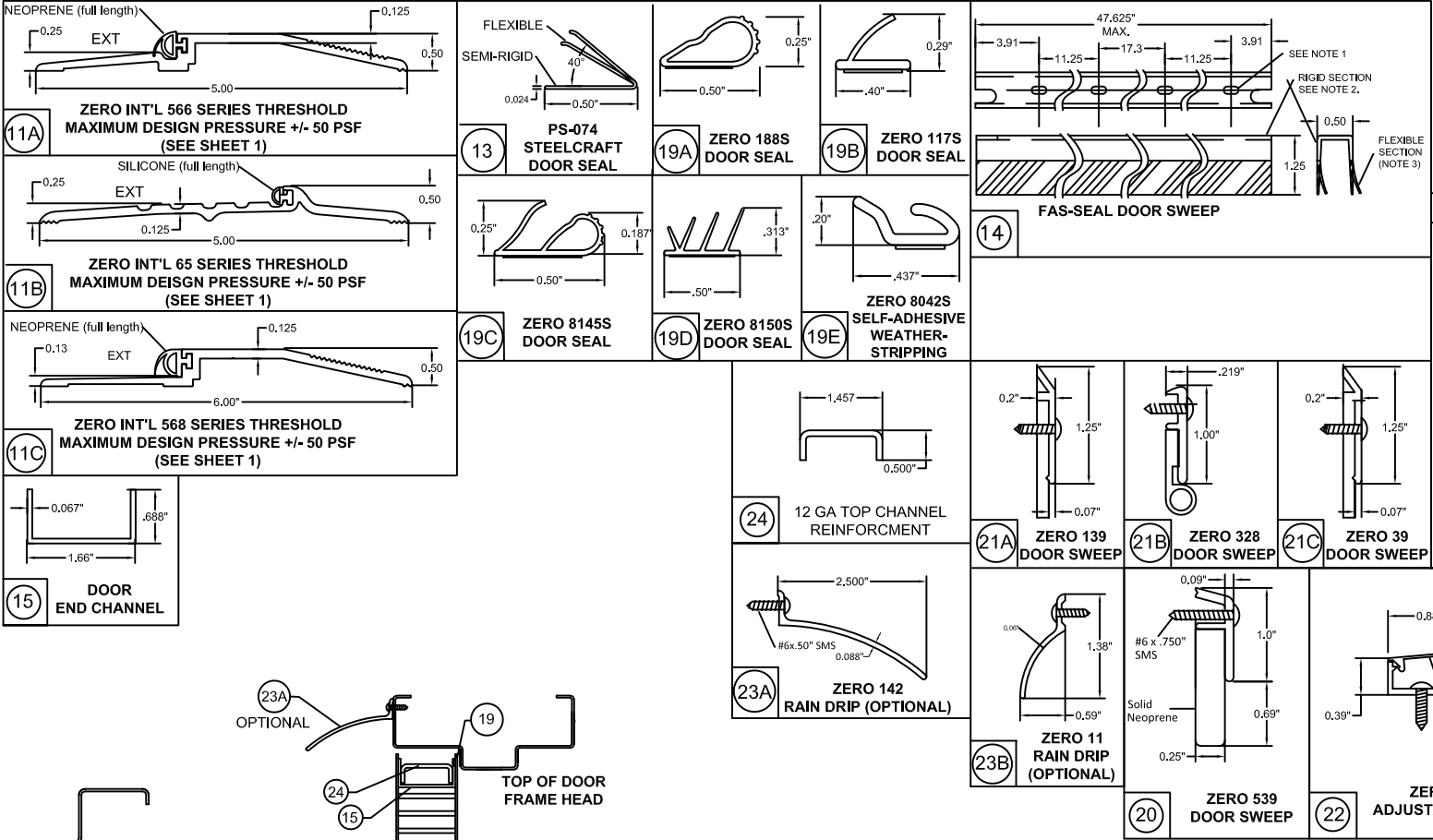


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TABLE 4 NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11	11A 566 THRESHOLD	ZERO INT'L
	11B 65 THRESHOLD	ZERO INT'L
	11C 568 THRESHOLD	ZERO INT'L
13	PS074 DOOR SEAL	STEELCRAFT
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
16	Z ASTRAGAL	STEELCRAFT
19	19A 188S DOOR SEAL	ZERO INT'L
	19B 117S DOOR SEAL	ZERO INT'L
	19C 8145S DOOR SEAL	ZERO INT'L
	19D 8150S DOOR SEAL	ZERO INT'L
	19E 8042S DOOR SEAL	ZERO INT'L
20	539 DOOR SWEEP	ZERO INT'L
21A	139 DOOR SWEEP	ZERO INT'L
21B	328 DOOR SWEEP	ZERO INT'L
21C	39 DOOR SWEEP	ZERO INT'L
22	475 ADJUSTABLE STOP	ZERO INT'L
23A	142 RAIN DRIP	ZERO INT'L
23B	11 RAIN DRIP	ZERO INT'L
24	12 GA C-CHANNEL	STEELCRAFT



NOTES:

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6. INSTALL THRESHOLD INTO BEAD OF CAULK FULL LENGTH OF SILL
7. REPUBLIC INSTALLATIONS REQUIRE (13, 19A, 19B, 19C, 19D, 19E) AND THRESHOLD (11A, 11B, 11C) AS APPLICABLE.
8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE



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GASKETING DETAILS - PERIMETER SEAL CONT.

PREPARED BY:

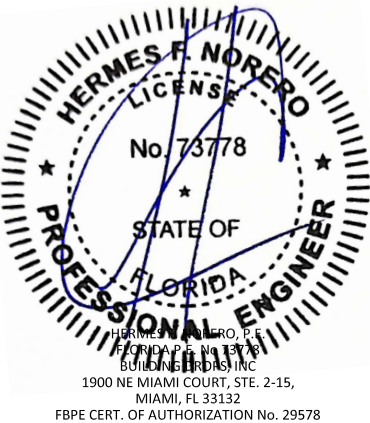
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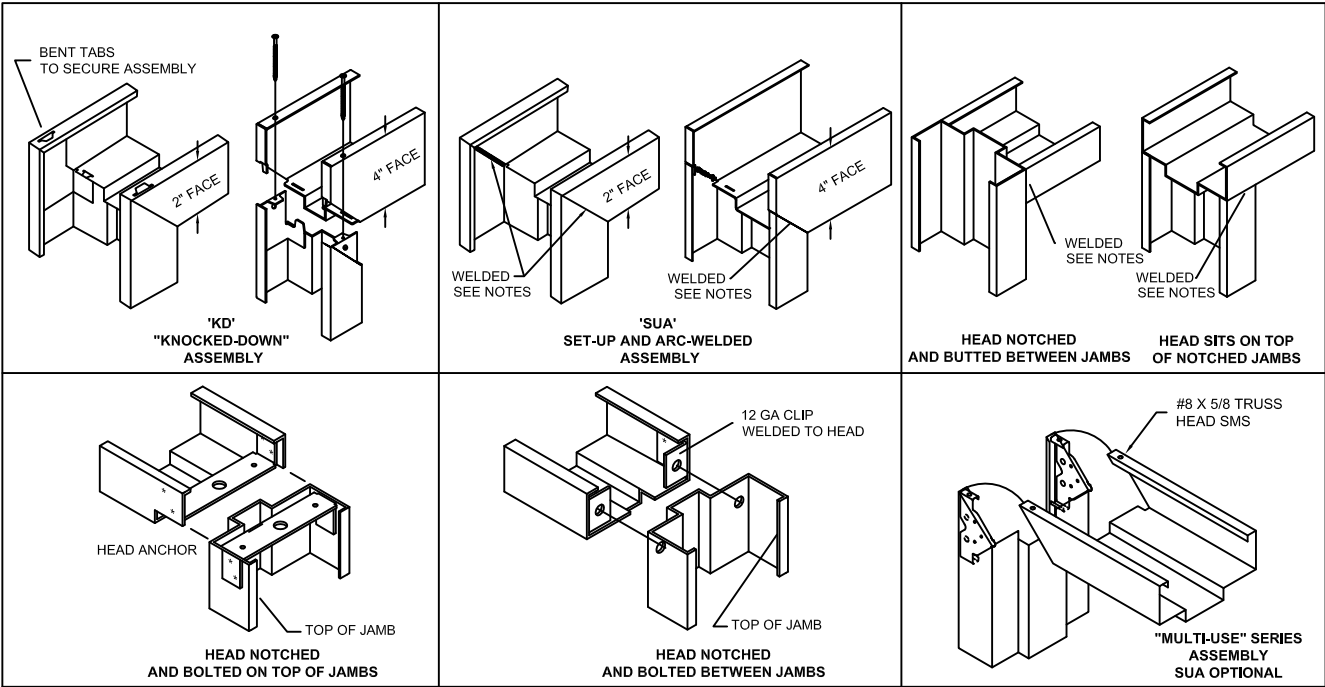
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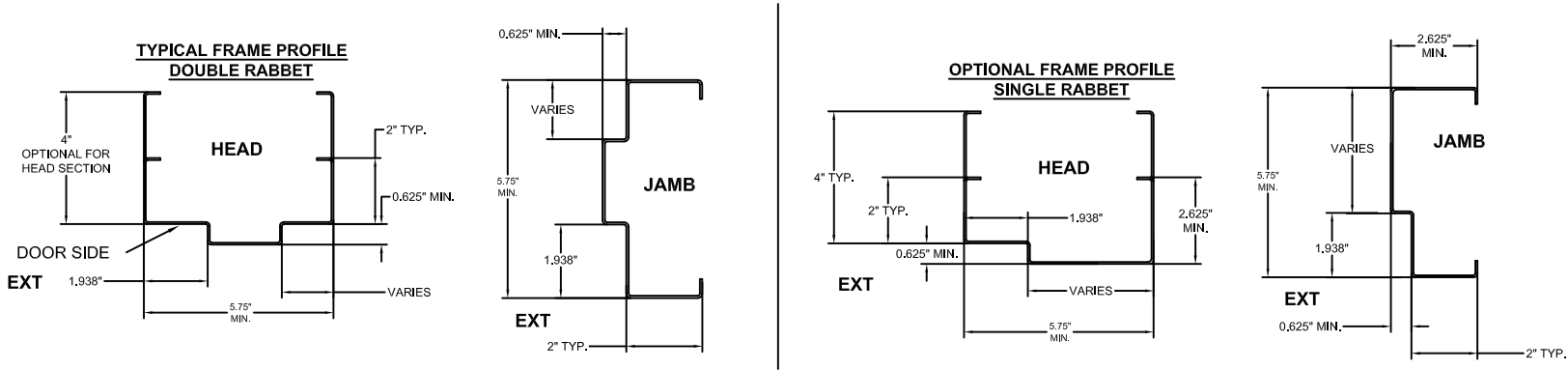


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WELDING NOTES:
1. CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM, GRIND SMOOTH AND PRIME PAINT. WELD CLASSIFICATION - E70XX



AVAILABLE DOOR PANEL CONFIGURATIONS

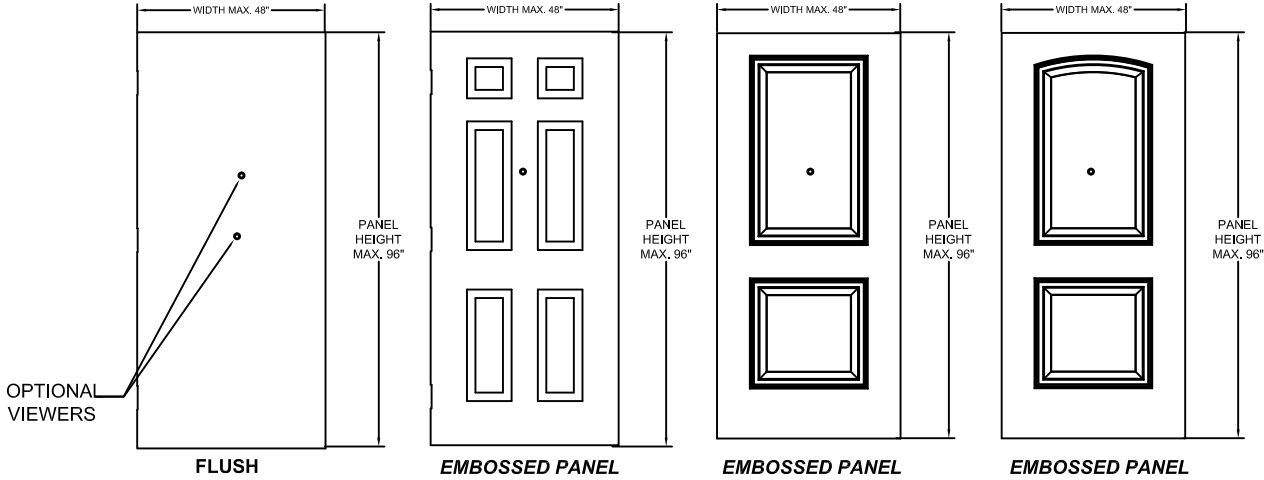


TABLE 5. AVAILABLE STEELCRAFT H-SERIES DOOR CONFIGURATIONS

STEELCRAFT H-SERIES DOOR CORE MATERIAL PER SHT. 5	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	8'-0"	8'-0"	CRS GALV	16/.053" 14/.067"

TABLE 6. AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

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

TABLE 7. STEEL MECHANICAL PROPERTIES

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

NOTE: OUTSWING APPLICATION SHOWN, INSWING SIMILAR.



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FRAME DETAILS & CORNER CONSTRUCTION

PREPARED BY:

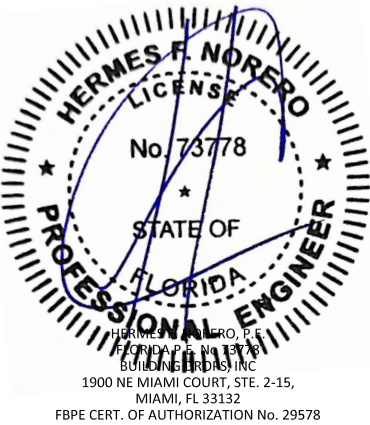
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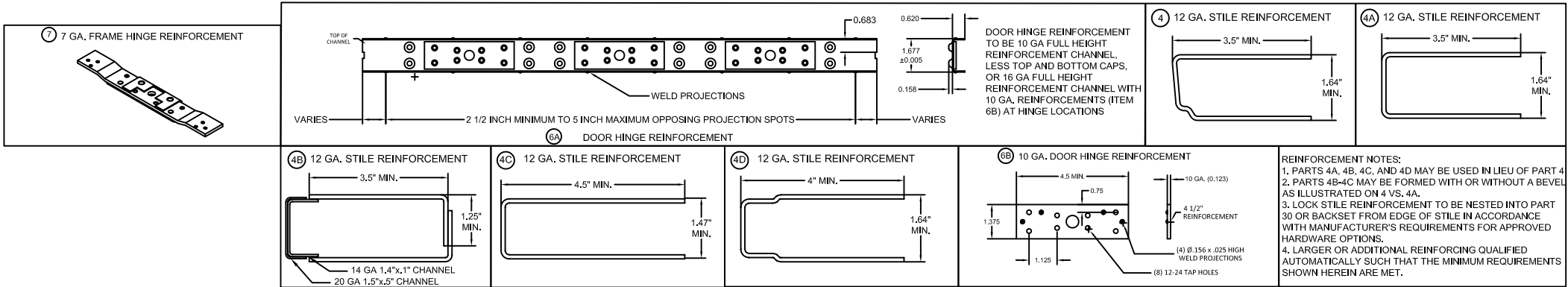
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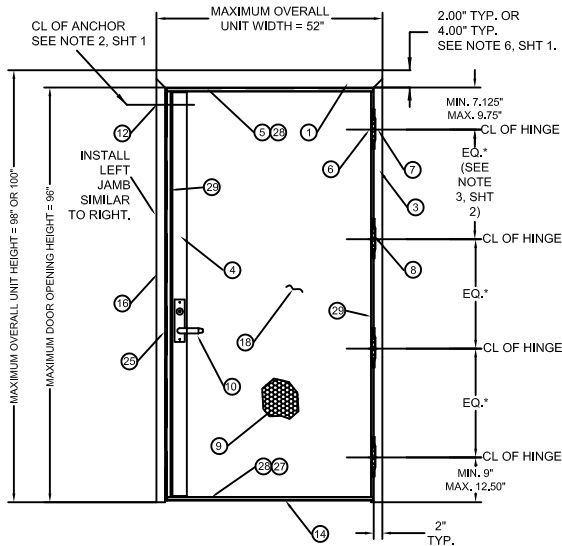
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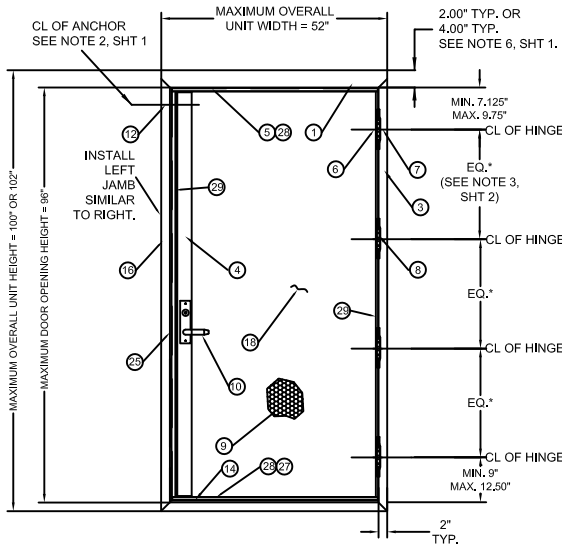
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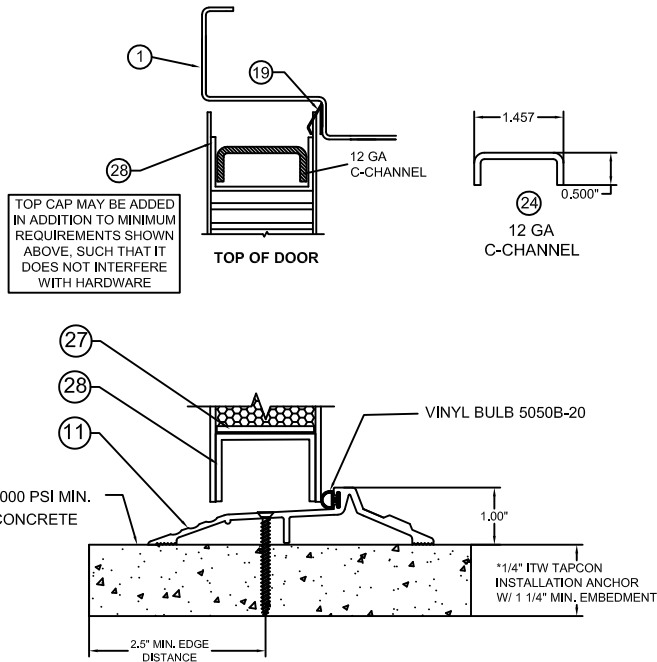
REINFORCEMENT NOTES:
1. PARTS 4A, 4B, 4C, AND 4D MAY BE USED IN LIEU OF PART 4
2. PARTS 4B-4C MAY BE FORMED WITH OR WITHOUT A BEVEL AS ILLUSTRATED ON 4 VS. 4A.
3. LOCK STILE REINFORCEMENT TO BE NESTED INTO PART 30 OR BACKSET FROM EDGE OF STILE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR APPROVED HARDWARE OPTIONS.
4. LARGER OR ADDITIONAL REINFORCING QUALIFIED AUTOMATICALLY SUCH THAT THE MINIMUM REQUIREMENTS SHOWN HEREIN ARE MET.



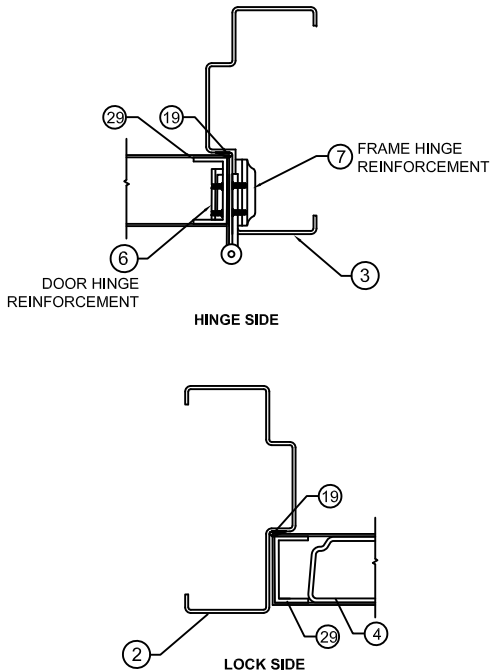
INSWING OR OUTSWING DOOR WITH THREE SIDED FRAME
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE



INSWING OR OUTSWING DOOR WITH FOUR SIDED FRAME
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE



OPTIONAL THRESHOLD DETAIL (SILL) WITH
INVERTED BOTTOM RAIL



NOTE: OUTSWING APPLICATION
SHOWN, INSWING SIMILAR.

TABLE 8 (SEE TABLE 1, SHEET 3 FOR OPTION 1 CONFIGURATION)

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD (SEE SHT. 20)	.053" MIN. STL	MAX. 100"
2	1	SILL JAMB (SEE SHT. 20)	.053" MIN. STL	MAX. 100" HEIGHT.
3	1	HINGE JAMB (SEE SHT. 20)	.053" MIN. STL	MAX. 102" HEIGHT.
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5 X 93.44 MAX
5	1	TOP CHANNEL LOCK REINFORCEMENT	.093" MIN. STL	0.5" X 1.46" X 48" MAX.
6	NOTE 3, SHT 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL.	1.23" X 9.19" MIN.
6A	NOTE 3, SHT 1	HINGE REINFORCEMENT DOOR	.053" MIN. STL.	1.676" X FULL LENGTH - END CHNLS
6B	NOTE 3, SHT 1	HINGE REINFORCEMENT DOOR	.123" MIN. STL.	1.375" X 4.5" MIN.
7	1	HINGE REINFORCEMENT FRAME	.167" MIN. STL.	1.5" X 9.19" MIN.
8	NOTE 3, SHT 1	4.5" MIN. BUTT HINGES (SEE SHT. 5)	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT. 5)	.067" MIN. STL/.12 ALUM	MAX. 95"
9	1	CORE MATERIAL (SHT 6):	D) HONEYCOMB C) STEEL STIFFENED A/F) POLYSTYRENE B/F) POLYURETHANE/POLYISOCYANURATE E) MINERAL BOARD TEMPERATURE RISE CORE	
10	1	LOCKING HARDWARE- SCHLAGE LM9300 SERIES THREE POINT LOCK		
12		JAMB ANCHOR	SEE SHEETS 7-15	
13	1	PSOT4 WEATHER STRIPPING	TPE	MAX. 24'
14	1	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.66"
15	2	END CHANNEL (16 GA - INVERTED)	.053" MIN. STL.	.62" X 1.66" X 47.66" MAX.
16	1	STRIKE JAMB SEE SHT. 20	.053" MIN. STL	MAX. 102" HEIGHT.
17	AS NEEDED	BUTYL RUBBER, SILICONE OR LATEX W/ SILICONE		
18	1	DOOR SLAB (16 OR 14 GA)	SEE SHEET 20	48" X 96" MAX.
19	1	BY ZERO INT'L SEAL A)188S, B)117S, C)8145S, D)8150S, E)8042S	SILICONE	MAX. 24'
20	1	BY NGP DOOR SEAL No.5020		
		BY ZERO INT'L DOOR SWEEP No.539	TPE	MAX. 96"
21	1	BY NGP DOOR SWEEP No.202N		
		BY ZERO INT'L DOOR SWEEP A)139, B) 328, C)39	SEE SHEETS 16 & 17	MAX. 48"
22	1	BY NGP DOOR SWEEP No.200N		
		BY ZERO INT'L ADJUSTABLE STOP No.475	TPE	MAX. 48"
		BY NGP ADJUSTABLE STOP No.170N		
23A	1	BY ZERO INT'L RAIN DRIP 142	ALUMINUM	MAX. 100"
23B	1	BY ZERO INT'L RAIN DRIP 11	ALUMINUM	MAX. 48"
24	1	TOP CHANNEL REINFORCEMENT	.093" MIN. STL	48" MAX.
25	1	STRIKE REINFORCEMENT STRIKE JAMB	.053" MIN. STL	1.31" X 8.38." MIN.
26	1	STRIKE REINFORCEMENT HEAD OR SILL	.093" MIN. STL	0.875" X 2" MIN.
27	1	BOTTOM CHANNEL PREP/ REINFORCEMENT 2-PIECES	.093" MIN. STL	1.375" X 3.5"
28	2	END CHANNEL (16 GAUGE-INVERTED OR FLUSH)	.053" MIN. STL.	.62" X 1.66" X 48" MAX.
29	2	EDGE CHANNEL (16 GAUGE MIN)	.053" MIN. STL.	.62" X 1.677"
30	1	IVES DOOR VIEWER U698/698		
31	NOTE3,SHT1	HINGE REINFORCEMENT FRAME	.149" MIN. STL.	1.23" X 9.19" MIN.



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

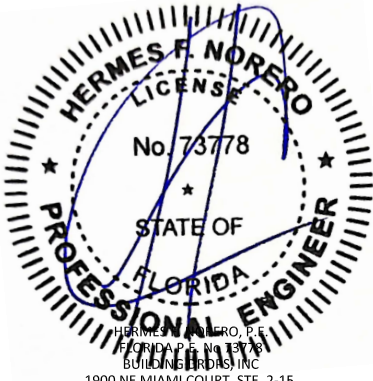
TITLE: INSWING & OUTSWING SINGLE FLUSH WITH
SCHLAGE LM9300 SERIES THREE POINT LOCK
(HVHZ)(MISSILE LEVEL E IMPACT)

REPUBLIC DOORS: SINGLE DOORS INSWING &
OUTSWING CONFIGURATIONS

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



REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26
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.		



HERMES F. NORERO, P.E.
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BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15,
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL16740

DATE: **09.30.2024**

DWG. BY: **JA** CHK. BY: **HN**

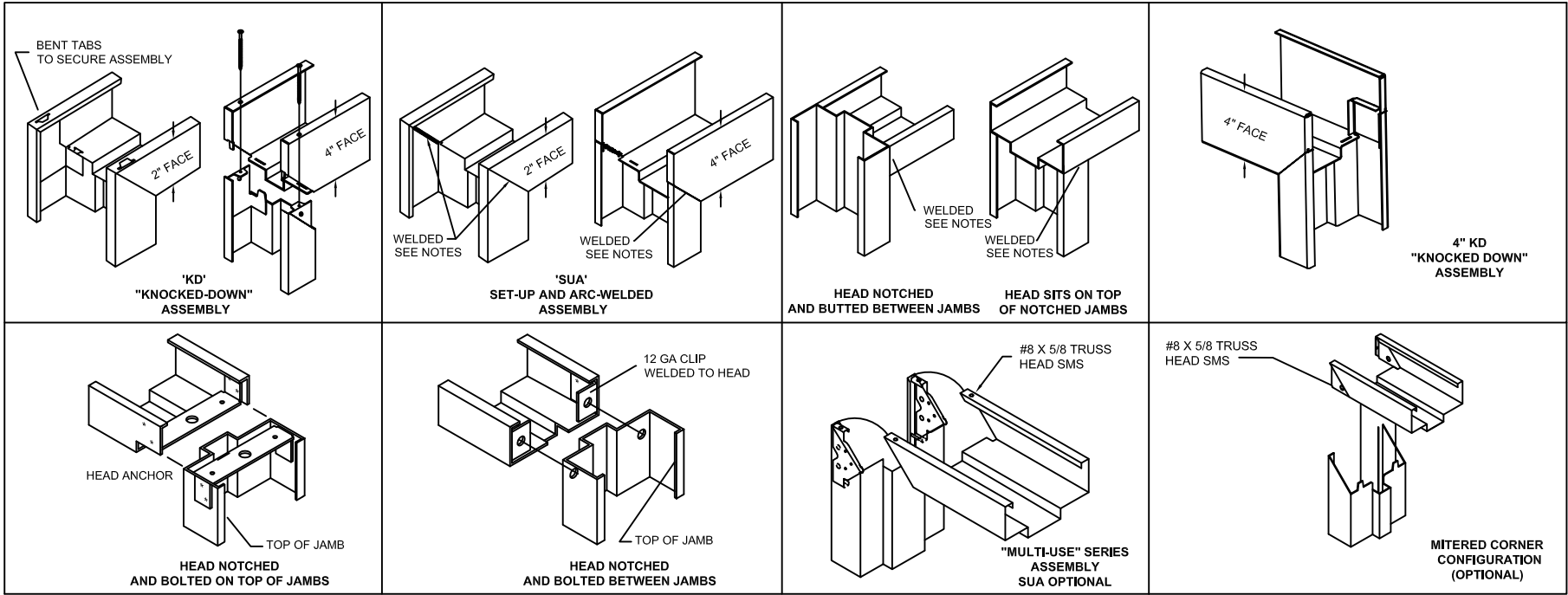
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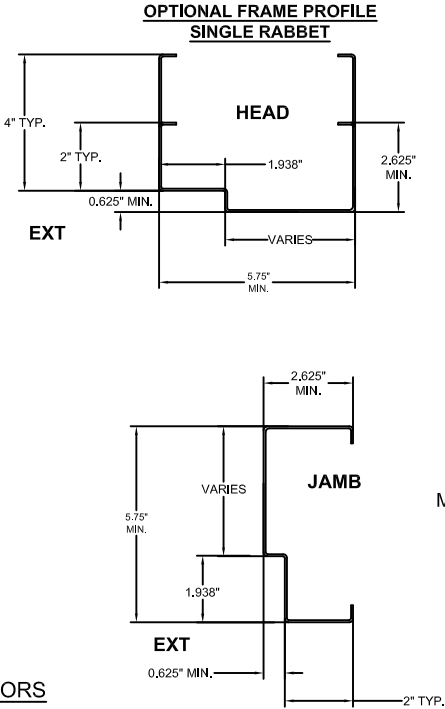
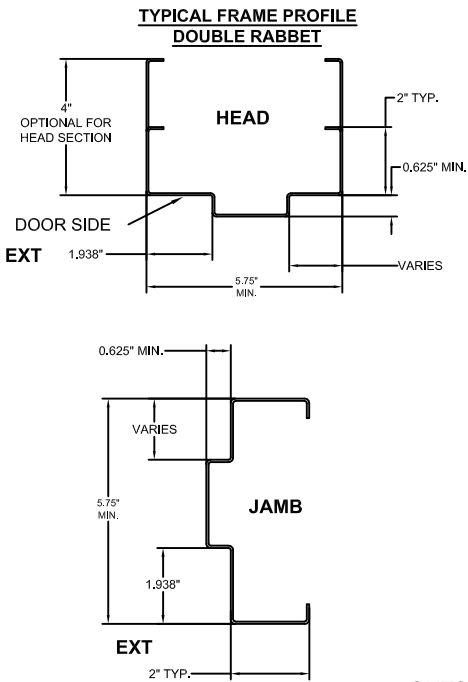
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WELDING NOTES:
1. CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM, GRIND SMOOTH & PRIME PAINT. WELD CLASSIFICATION - E70XX



AVAILABLE DOOR PANEL CONFIGURATIONS

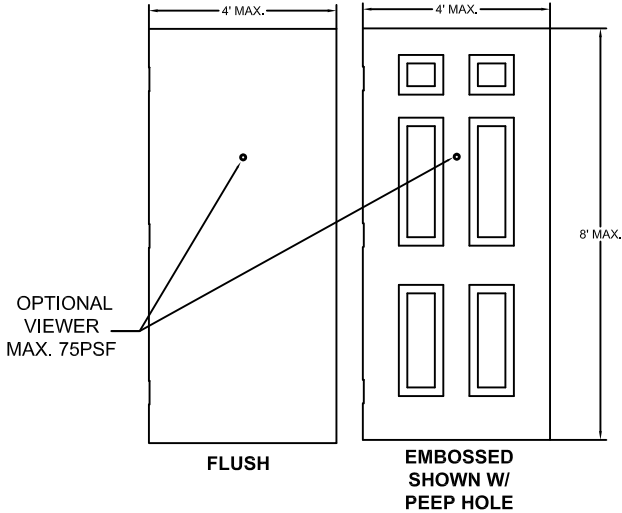


TABLE 9. AVAILABLE REPUBLIC DOOR CONFIGURATIONS

REPUBLIC DOOR SERIES	DOOR CORE MATERIAL PER SHT. 6	MAXIMUM OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
DL	HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	4'-0"	8'-0"	CRS. GALV.	16/.053"
DE		4'-0"	8'-0"	CRS. GALV.	16/.053" 14/.067"

TABLE 10. AVAILABLE REPUBLIC FRAME CONFIGURATIONS

REPUBLIC FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
ME / SE	5.75" MIN.	4'-0"	8'-0"	CRS/HRS GALV	16/.053" 14/.067"
SE	5.75" MIN.	4'-0"	8'-0"	CRS/HRS GALV	12/.093"

TABLE 11. STEEL MECHANICAL PROPERTIES

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



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REPUBLIC DOORS: FRAME DETAILS & CORNER CONSTRUCTION

PREPARED BY:

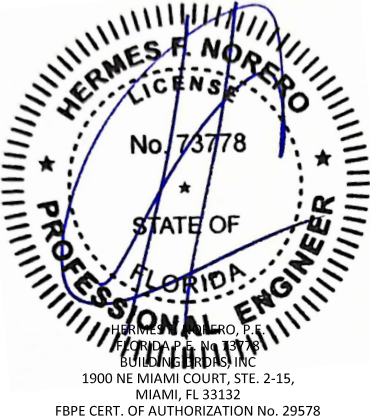
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