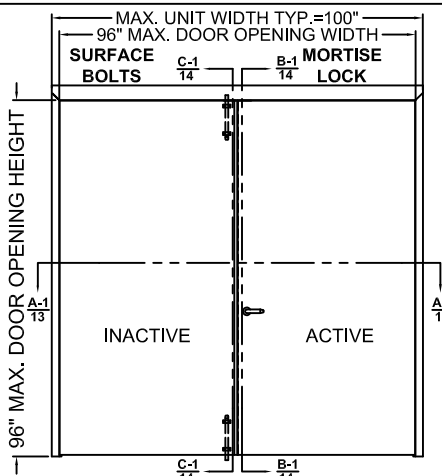
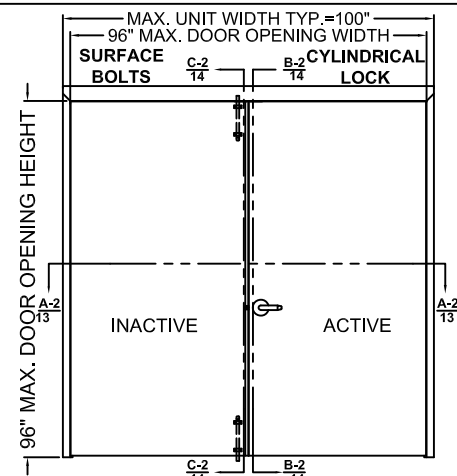


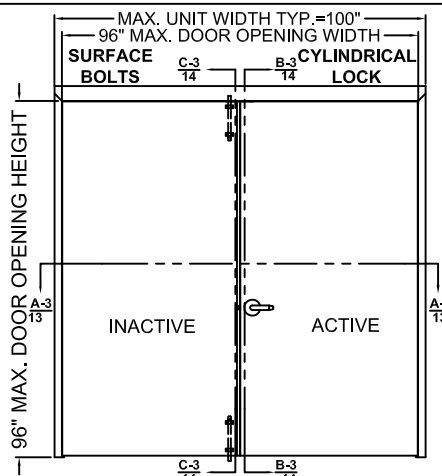
CONFIG. 1	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±75</b>	SEE TABLE 3.1 ON SHT. 5	SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8



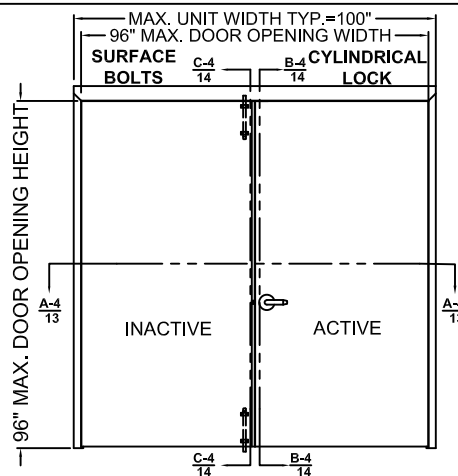
CONFIG. 1A	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±60</b>	SEE TABLE 3.1 ON SHT. 5	SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8



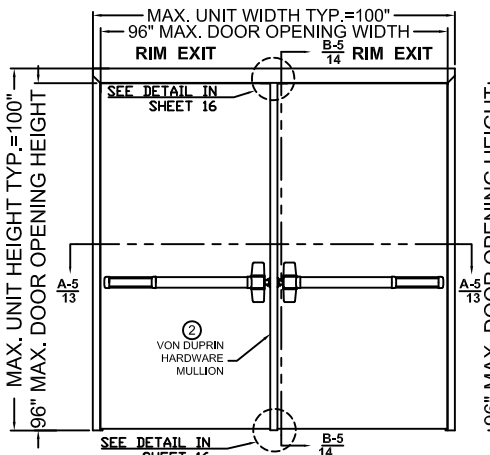
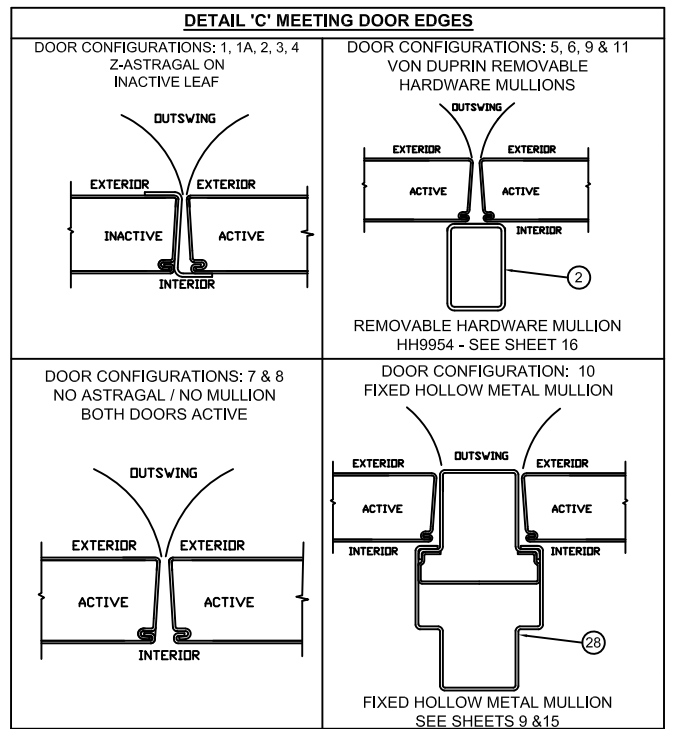
CONFIG. 2	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±55</b>	SEE TABLE 3.1 ON SHT. 5	SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8



CONFIG. 3	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±65</b>	SEE TABLE 3.1 ON SHT. 5	SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8

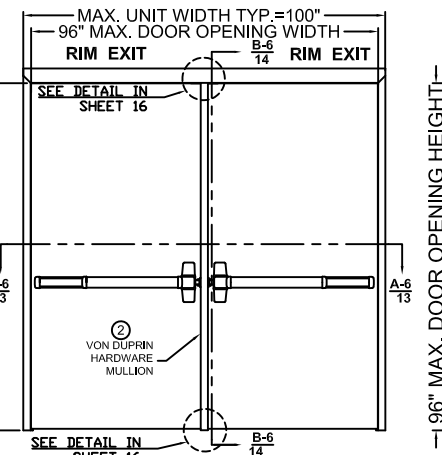


CONFIG. 4	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±75</b>	SEE TABLE 3.1 ON SHT. 5	SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8

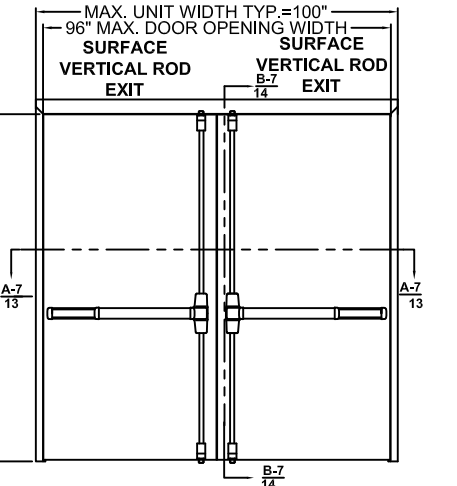


CONFIG. 5	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±75</b>	SEE TABLE 3.1 ON SHT. 5	<b>±90*</b> SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8

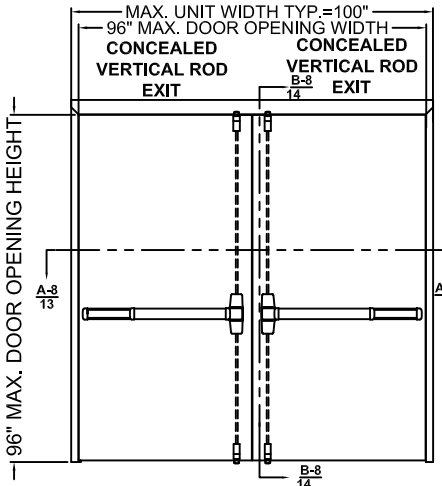
\* SEE NOTE 4 ON SHEET 2



CONFIG. 6	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±70</b>	SEE TABLE 3.1 ON SHT. 5	<b>±70</b> SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8



CONFIG. 7	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±70</b>	SEE TABLE 3.1 ON SHT. 5	<b>±70</b> SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8



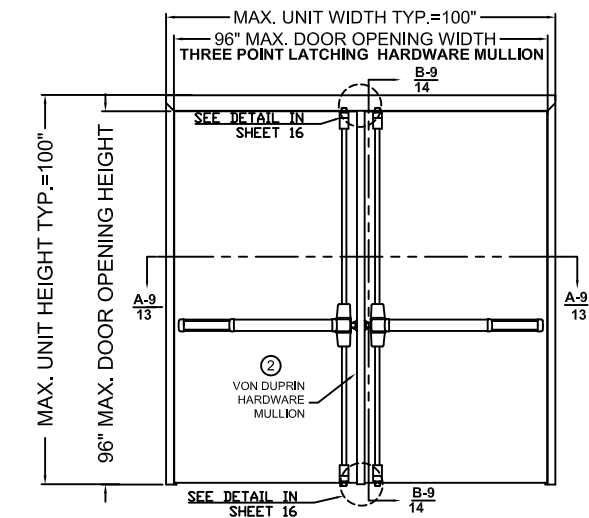
CONFIG. 8	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±70</b>	SEE TABLE 3.1 ON SHT. 5	<b>±70</b> SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8

**COMPLIANCE STATEMENT:**

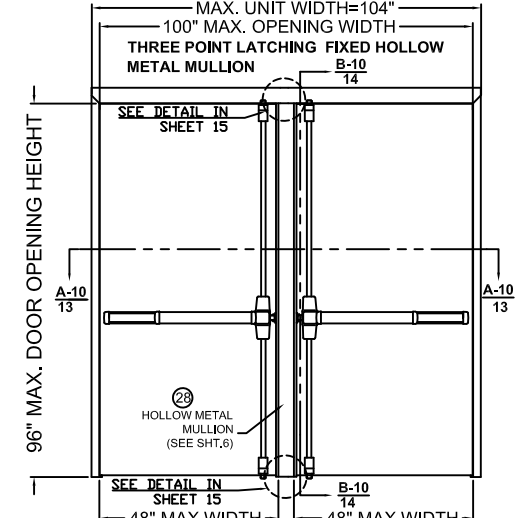
1. THESE PRODUCTS HAVE BEEN TESTED TO PROTOCOLS TAS 201, 202 & 203-94, ASTM PROTOCOLS E283-04(12), E330-14 AND E331-00(09), AND COMPLY WITH THE 2018 IBC & IRC.

**NOTES:**

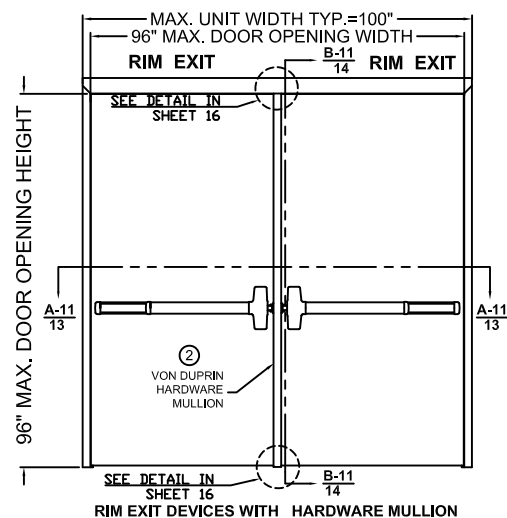
1. INTERIOR VIEWS ARE SHOWN FOR ALL ELEVATIONS (OUTSWING DOORS)
2. SEE TABLE 1 ON SHEET 2 FOR HARDWARE APPLICATIONS AND LIMITATIONS
3. SEE SHEET 3 & 16 FOR HINGE REQUIREMENTS
4. SEE SHEETS 4 & 17 FOR ANCHORING TYPES AND LIMITATIONS AND SHEETS 15 & 16 FOR MULLION INSTALLATION.
5. SEE SHEET 5 TABLE 3.1 AND SHEET 6 TABLES 3.2 & 3.3 FOR WATER RATED THRESHOLDS AND WEATHERSTRIPPING INSTALLATION AND LIMITATIONS
6. SEE SHEET 7 TABLE 4.1 AND SHEET 8 TABLE 4.2 FOR NON WATER RATED THRESHOLDS AND WEATHERSTRIPPING INSTALLATION AND LIMITATIONS
6. SEE SHEETS 3 - 8, & 17 FOR SILL INSTALLATION INFORMATION
7. ALL CONFIGURATIONS MEET LARGE AND SMALL MISSILE IMPACT REQUIREMENTS - LARGE MISSILE IMPACT AT (50 F/S)



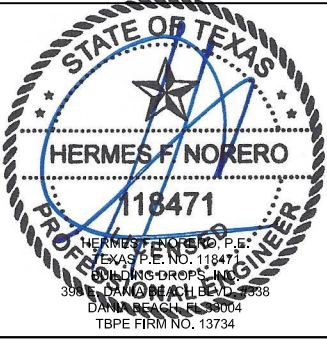
CONFIG. 9	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±70</b>	SEE TABLE 3.1 ON SHT. 5	<b>±70</b> SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8



CONFIG. 10	THREE POINT LATCHING FIXED HOLLOW METAL MULLION		
	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>±70</b>	SEE TABLE 3.2 ON SHT. 6	<b>±70</b> SEE TABLE 4.1 ON SHT.7
	<b>+50/-50</b>	NGP 950 (11B) SEE TABLES 3.3 ON SHT. 6	<b>±70</b> SEE TABLE 4.2 ON SHT.8



CONFIG. 11	DESIGN PRESSURE RATING, PSF	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
	<b>+70/-55</b>	SEE TABLE 3.1 ON SHT. 5	<b>+70/-55</b> SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8

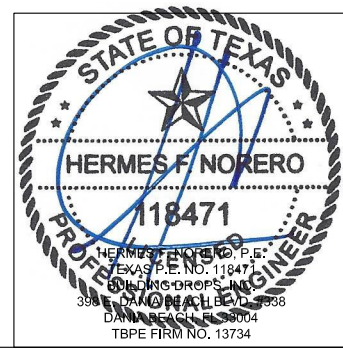


BEND RADIUS	SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032		
THIRD ANGLE PROJECTION	TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES		
DRAWN YMF	DATE 05/20/07	FLUSH OUTSWING, DOUBLE DOORS AND HARDWARE CONFIGURATIONS.	
CHECKED		SIZE FLAT	DWG NO. IRFD07-T
APPROVED		SCALE NTS	REV B 1-8-20
ENG. APPVL JPD	10/12/07	AUTOCAD	SHEET 1 OF 17

Door Configuration	Maximum Design Pressure, PSF		Maximum Door Opening Size, in.		Locking Hardware Description				Comments
	Positive	Negative	Width	Height	Hardware Family	Model/Series	Strike Models	Brand	
1	75	75	96	96	Mortise Lock	L/LV9400, AD-MD & CO-MD	10-072	Schlage	Function with deadbolt, 3/4" min. throw latch & 1" min throw deadbolt
						LE-MD, LEB-MD	10-072	Schlage	
						MA	ANSI	Falcon	
1A	60	60	96	96	Mortise Lock	L/LV9000, AD-MS, & CO-MS	10-072	Schlage	Function without deadbolt, 3/4" min. throw latch
						LE-MS, LEB-MS LE-MB, LEB-MB	10-072	Schlage	
2	55	55	96	96	Cylindrical Lock	AL	10-025	Schlage	1/2" min. throw latch
3	65	65	96	96	Cylindrical Lock	D, ND, NDE, NDEB, AD-CY & CO-CY	10-025	Schlage	1/2" min. throw latch
						ALX	ANSI		1/2" throw latch (13-247, 14-028)
4	75	75	96	96	Cylindrical Lock	D, ND, NDE, NDEB, AD-CY & CO-CY	10-025	Schlage	3/4" min. throw latch
						ALX	ANSI		3/4" min. throw latch (14-042)
						T	ANSI	Falcon	3/4" min. throw latch
5	90 SEE NOTE 4.	90 SEE NOTE 4.	96	96	Rim Exit Device	XP98/99 & XP98/99-F	909/954	Von Duprin	for pairs use HH9954 mullion by Von Duprin
6	70	70	96	96	Rim Exit Device	88-F	268/468	Von Duprin	for pairs use HH9954 mullion by Von Duprin
						98/99 & 98/99-F	299F/499F	Von Duprin	
7	70	70	96	96	Surface Vertical Rod Exit Device	98/9927 & 98/9927-F	299F/499F Top, 304L Bottom	Von Duprin	
						F-25-V & 25-V	3788 Top, 2130 Bottom	Falcon	
8	70	70	96	96	Concealed Vertical Rod Exit Device	98/9947-F & HH98/9947	338 Top, 385A or 304L Bottom	Von Duprin	HH98/9947 devices have a 2-3/4" backset
						F-25-C	4188 Top, 2130 Bottom	Falcon	
9	70	70	96	96	Three-Point Latching Device	98/9957 & 98/9957-F	299F/499F Top/Middle, 304L Bottom	Von Duprin	for pairs use HH9954 mullion by Von Duprin
10	70	70	48	96		98/9957 & 98/9957-F	299F/499F Top/Middle, 304L Bottom	Von Duprin	See note #2
11	70	55	96	96	Rim Exit Device	F-25-R & 25-R	299F/499F	Falcon	for pairs use HH9954 mullion by Von Duprin

**TABLE 1.**

- NOTES:**
- FOR DOOR CONFIGURATIONS 1, 1A, 2, 3, & 4, INACTIVE LEAF REQUIRES IVES SB360 SURFACE BOLTS IN TOP AND BOTTOM, EACH ATTACHED WITH (4) #12-24 OVAL HEAD MACHINE SCREWS AND SEX BOLTS.
  - DOOR CONFIGURATION 10 IS USING FIXED HOLLOW METAL MULLION BETWEEN TWO DOORS (SEE MULLION DETAIL IN SHEET 15)
  - SEE SHEETS 10 THROUGH 16 FOR LOCKING HARDWARE AND HARDWARE MULLION DETAILS
  - DOOR CONFIGURATION 5 IS RATED FOR MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD 11A OR FOR DOOR OPENINGS UP TO 3'-0" X 7'-0" WITH NGP THRESHOLD 11B AND ±50 PSF FOR DOOR OPENINGS UP TO 4'-0" X 8'-0" WITH NGP THRESHOLD 11B WHEN WATER INFILTRATION REQUIREMENT IS NEEDED. SEE SHEETS 5 AND 6.
  - DOOR CONFIGURATION 5 IS WATER RATED FOR A MAXIMUM DESIGN PRESSURE UP TO ±75 WITH ZERO INT'L THRESHOLD (11A) OPTIONS AND UP TO ±90 PSF WITH THE NON-WATER RATED NGP 950 THRESHOLD (12B) OPTIONS WHEN WATER INFILTRATION REQUIREMENT IS NOT REQUIRED. SHEET 8.
  - SCHLAGE AL-SERIES CYLINDRICAL LOCK (DOOR CONFIGURATION 2) IS LIMITED TO ±55 PSF MAXIMUM DESIGN PRESSURE



BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN YMF	DATE 05/20/07	FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS COMMERCIAL DOOR OPENING DOUBLE FLUSH DOORS.	
CHECKED		SIZE FLAT	DWG NO. IRFD07-T
APPROVED		SCALE: NTS	REV B 1-8-20
ENG. APPVL JPD	10/12/07	AUTOCAD	SHEET 2 OF 17

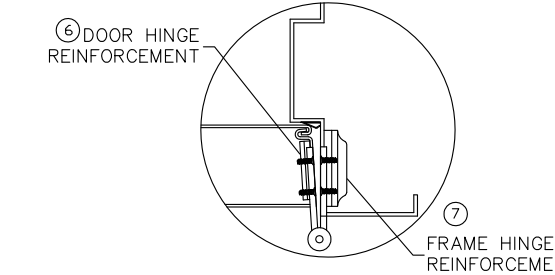
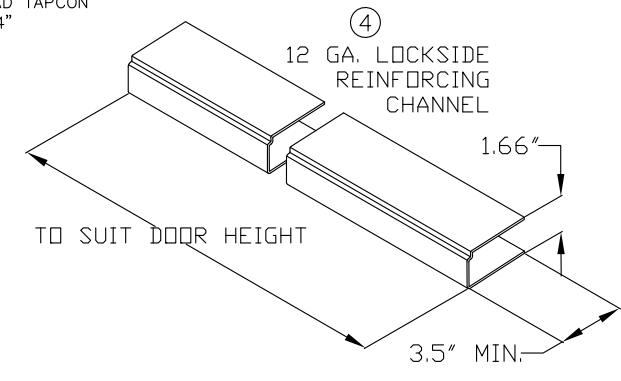
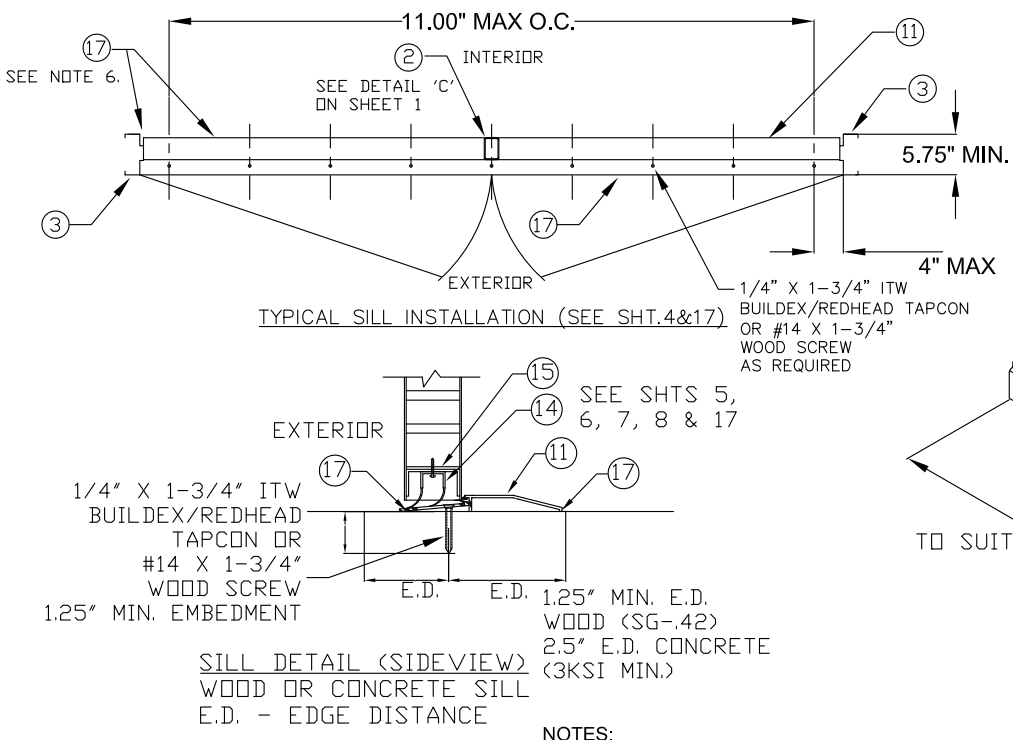
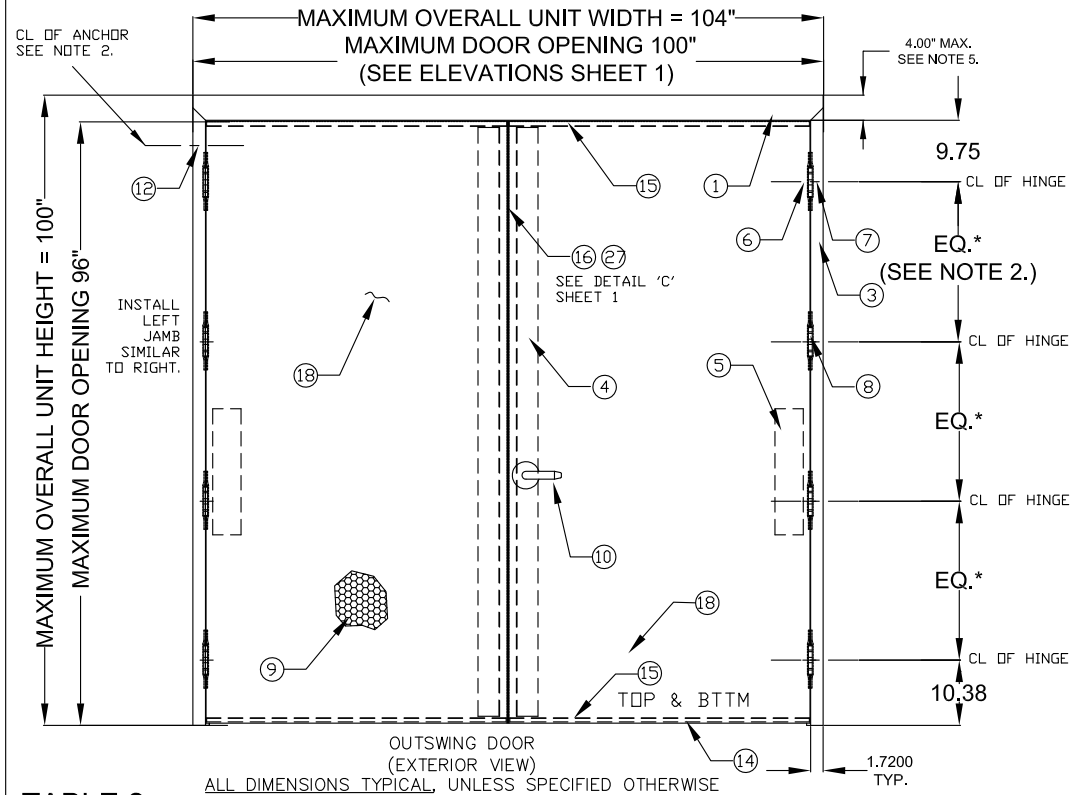
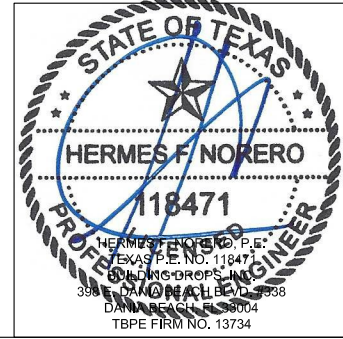
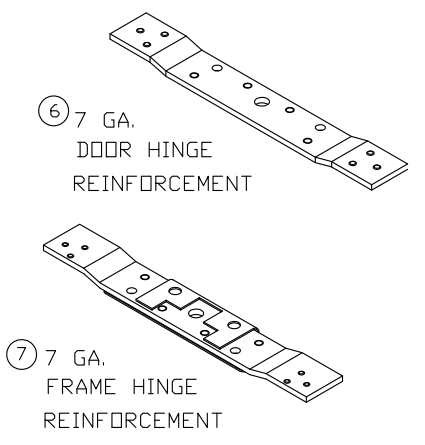


TABLE 2

QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	HEAD SEE SHT 9 ASTM A366	.053" MIN. STL	MAX. 100"
2	VON DUPRIN HH9954 HARDWARE MULLION	.312" A500 STL	MAX. 96" HEIGHT.
3	HINGE JAMB SEE SHT 9 ASTM A366	.053" MIN. STL	MAX. 100" HEIGHT.
4	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5 X 93.44 MAX
5	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"
6	NOTE 2. HINGE REINFORCEMENT DOOR ASTM A621	.167" MIN. STL.	1.23" X 9.19" MIN.
7	NOTE 2. HINGE REINFORCEMENT FRAME ASTM A621	.167" MIN. STL.	1.5" X 9.19" MIN.
8	NOTE 2. 4.5" X 4.5" BUTT HINGES (SEE SHT.16) OPTIONAL CONTINUOUS HINGE (SEE SHT.16)	.134 MIN. .750" MIN. STL/.12 ALUM	(8) #12-24 MS PER HINGE MAX. 95"
9	2 CORE MATERIAL (SHT15): D) HONEYCOMB C) STEEL STIFFENED B/F) POLYURETHANE/POLYISOCYANURATE E) MINERAL BOARD TEMPERATURE RISE CORE	A/F) POLYSTYRENE	
10	2 LOCKING HARDWARE - SEE SHEETS 2, 10, 11 & 12 THRESHOLD SILL W/BUMPER GASKET (SEE SHTS. 5, 6, 7, & 8)		
11	1 11A) 566 ZERO WATER RATED SHTS 5&6 NON WATER SHT 7 11B) 950A NGP WATER RATED SHT 6 NON WATER SHT 8 11C) 65 ZERO NON WATER RATED SHEET 7 11D) 568 ZERO NON WATER RATED SHEET 7	.125" ALUM. 6063 T5 .078" ALUM. 6063 T5 .125" ALUM. 6063 T5 .125" ALUM. 6063 T5	5.0"x0.5"x96"MAX. 6.0"x0.5"x96"MAX.
12	NOTE 1. JAMB ANCHOR ASTM A924	SEE SHEET 7	
13	SEE SHTS 6, 7 & 8 13A) PSD74 DOOR SEAL STEELCRAFT 13B)188S, 13C)117S, 13D)8144S, 13E)8150S DOOR SEAL ZERO	TPE SILICONE	VARIES
14	2 FAS-SEAL DOOR SWEEP SEE SHTS 5,6,7&8	TPE	MAX. 47.66"
15	4 END CHANNEL ASTM A924 (14 GA - INVERTED)		.69" X 1.66" X 47.66" MAX.
16	1 16A) 328 SPLIT ASTRAGAL BY ZERO INT'L 16B) 137 SPLIT ASTRAGAL BY NGP	SEE SHEETS 5 & 7 SEE SHEETS 8	
17	AS NEEDED CAULK - BUTYL RUBBER OR SILICONE	SEE SHTS 5,6,7&8	
18	2 DOOR SLAB (16 OR 14 GA)	SEE SHEET 9	4' X 8' MAX.
19	1 19A) 8150S DOOR SEAL BY ZERO INT'L SEE SHTS 5 & 7 19B) 188S DOOR SEAL BY ZERO INT'L SEE SHTS 6 & 7	TPE	MAX. 24'
20	4 202N DOOR SEAL BY NGP SEE SHEET 6	TPE	MAX. 96"
21	2 21A) 139 DOOR SWEEP BY ZERO INT'L 21B) 328 DOOR SWEEP BY ZERO INT'L 21C) 200N DOOR SWEEP BY NGP	SEE SHEETS 5 & 6	MAX. 96" FOR VERTICAL MAX. 48" FOR HORIZONTAL
22	2 22A) 475 ADJUSTABLE SEAL BY ZERO INT'L SEE SHEET 6 22B) 170N ADJUSTABLE SEAL BY NGP SEE SHEET 6	TPE	MAX. 48"
23	1 23A) 142 RAIN DRIP BY ZERO INT'L 2 23B) 11 RAIN DRIP BY ZERO INT'L 23C) 16A RAIN DRIP BY NGP	SEE SHEETS 5 & 6	MAX. 104" MAX. 48"
24	2 TOP CAP GALV. A60 ASTM A924	.020" MIN. STL	0.5" X 1.76" X 48" MAX.
25	2 IVES 360 12" SURFACE BOLT		
26	1 ASA STRIKE		
27	1 Z-ASTRAGAL	.067" MIN. STL	MAX. 95.5
28	1 HOLLOW METAL MULLION (SINGLE OR DOUBLE RABBET)	SEE SHEET 9	MAX. 96"
29	1 IVES 698/U698 DOOR VIEWER	BRASS	

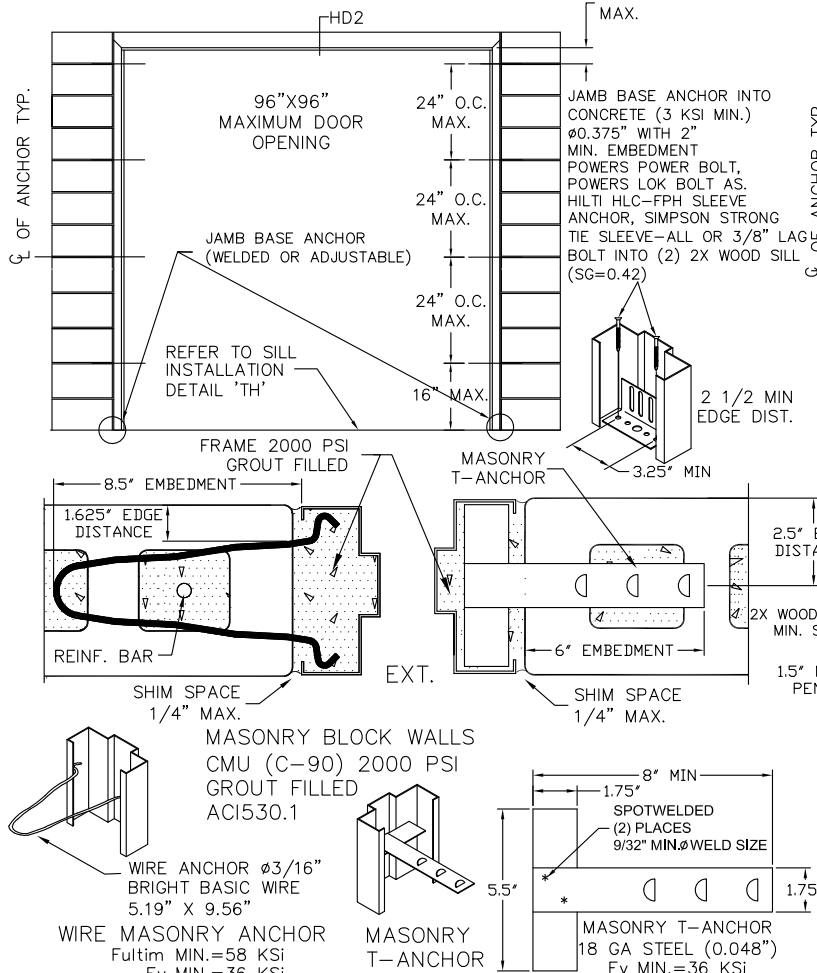
- NOTES:
- ANCHOR REQUIREMENTS: SEE SHEETS 4 & 17 FOR APPROVED ANCHORS AND INSTALLATION REQUIREMENTS. SEE SHEETS 15 & 16 FOR MULLION INSTALLATION.
  - HINGE REQUIREMENTS:  
FOR DOOR OPENING UP TO 90" HIGH - MIN. (3) BUTT HINGES  
FOR DOOR OPENING OVER 90" - 96" HIGH - MIN. (4) BUTT HINGES  
LOCATIONS: 9.75" FROM RABBET IN HEAD TO CL OF TOP HINGE  
10.38" FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.  
HINGE LOCATIONS MAY VARY, MAX SPACING NOT TO EXCEED 35.5" FOR THREE HINGES.  
FOR APPROVED CONTINUOUS HINGE MODELS SEE SHEET 16.
  - SEE SHEETS 1, 2 & 9 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
  - HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.  
5.4" FACE FRAME HEAD IS AVAILABLE. SEE SHEETS 4 AND 17.
  - APPLY CAULK TO FULL LENGTH OF SILL AND ENTIRE PERIMETER OF FRAME. SEE SHEETS 5, 6, 7, & 8.
  - SEE SHEET 13 FOR HORIZONTAL SECTION A-A, SEE SHEET 14 FOR VERTICAL SECTIONS B-B AND C-C.
  - EXIT HARDWARE OPTIONS:  
FOR 98/99 & XP98/99 SERIES - OPTIONS E, QEL, RX, LX, SS, EL, CX, F, ALK, CD, LD, PN  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
FOR 88-F SERIES - OPTION E  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
PN MODEL OFFERED.  
FOR 2670 GUARD-X  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
FOR 25-R, 25-C & 25-V SERIES - OPTIONS DM, LM, KOR, MEL, EA, FSA, FSE, CD, RX, LD, AE  
TRIM: ALL APPLICABLE TRIMS AVAILABLE
  - PN MODEL OFFERED.
  - ELECTRICAL INSTALLATION AND FIR RATINGS ARE UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
  - OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTARY MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND IT DOES NOT EFFECT THE MECHANICAL PROPERTIES OF EXIT DEVICE AND/OR INHIBIT EGRESS, TO BE REVIEWED BY BUILDING OFFICIAL.
  - WEATHERSTRIPPING:  
- WHEN WATER INFILTRATION IS REQUIRED INSTALL PER SHEETS 5 OR 6 AS APPLICABLE  
- WHEN WATER INFILTRATION IS NOT REQUIRED INSTALL PER SHEETS 7 OR 8 AS APPLICABLE
  - SILL SHALL BE ANCHORED PER INSTALLATION DETAIL ON THIS SHEET AND SHEETS 4 & 17.
  - GASKETING QUANTITY WILL INCREASE WHEN USED WITH HOLLOW METAL MULLION. SEE SHEET 6, 7 & 8 FOR DETAILS.



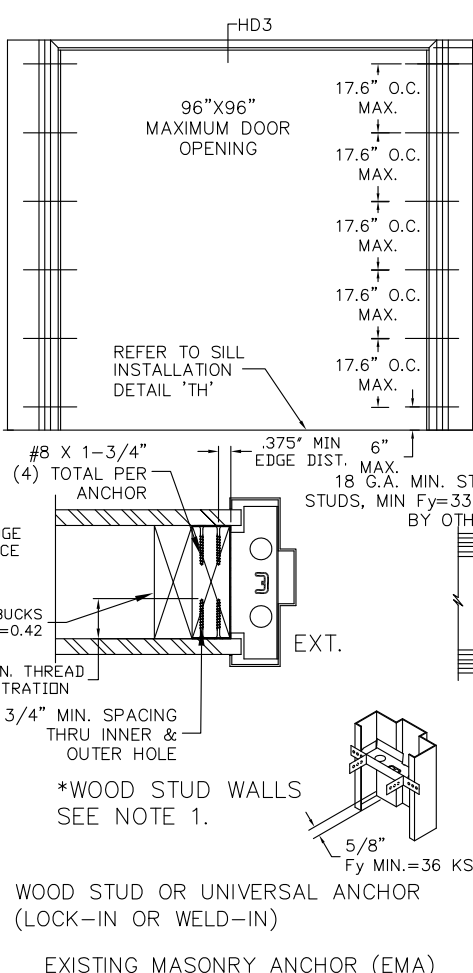
BEND RADIUS	SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032		
THIRD ANGLE PROJECTION	TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES		
DRAWN YMF	DATE 05/20/07	H SERIES FLUSH DOUBLE DOORS OUTSWING CONFIGURATIONS	
CHECKED		SIZE FLAT	DWG NO. IRFD07-T
APPROVED		SCALE: NTS	REV B 1-8-20
ENG. APPVL JPD	10/12/07	AUTOCAD	SHEET 3 OF 17



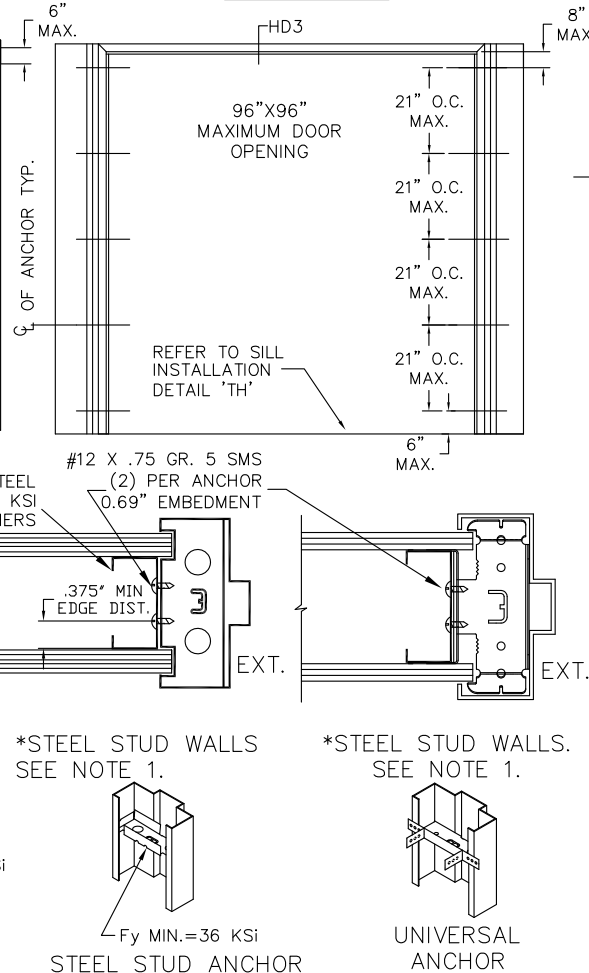
**A** WIRE OR T MASONRY ANCHOR INTO GROUT FILLED FRAME AND BLOCK WALL UP TO 75 PSF



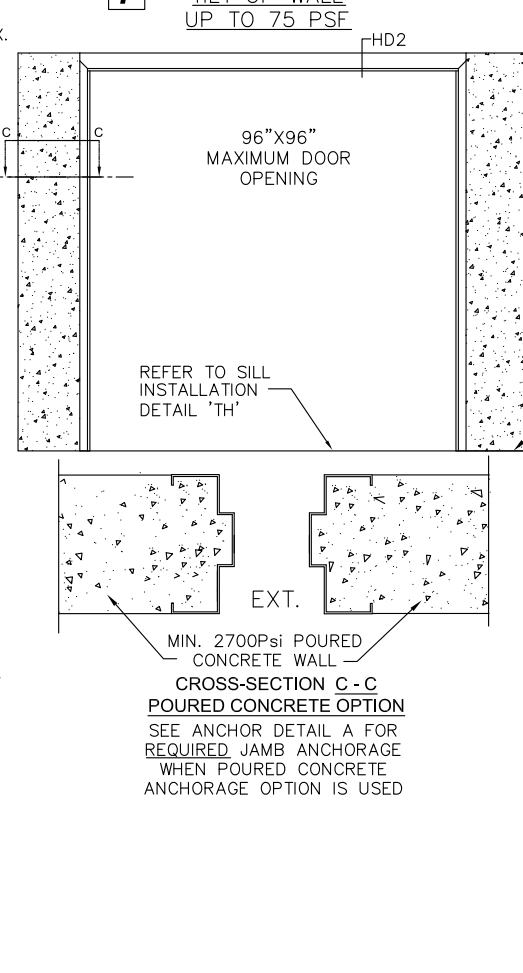
**B** WOOD STUD ANCHOR UP TO 75 PSF



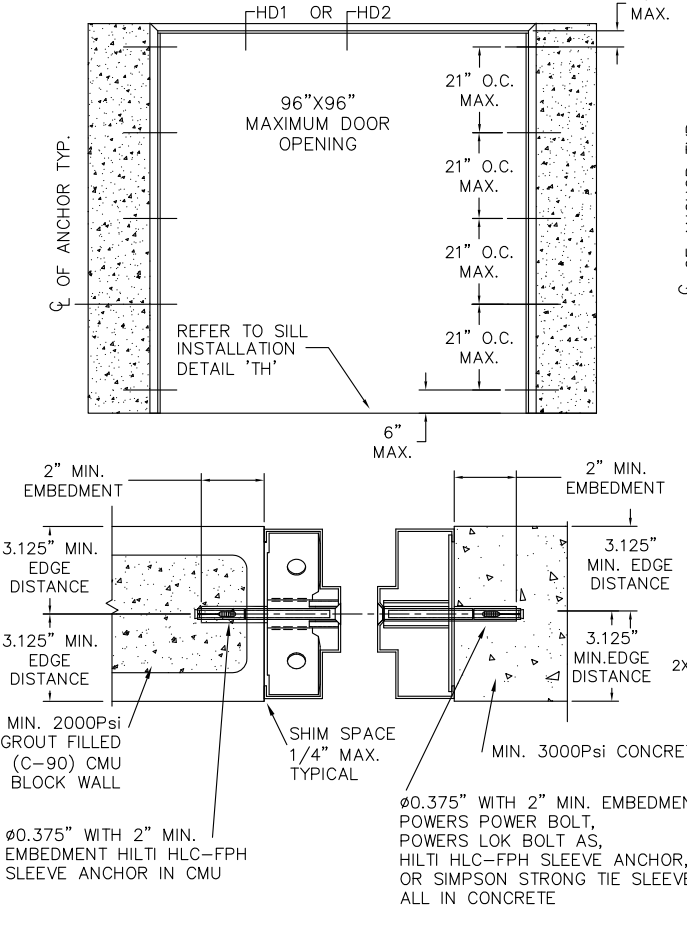
**C** STEEL STUD ANCHOR UP TO 75 PSF



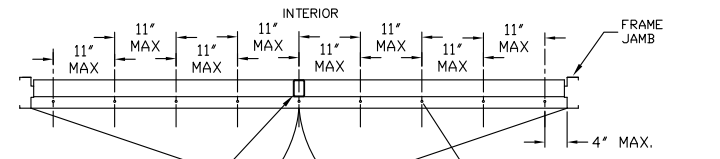
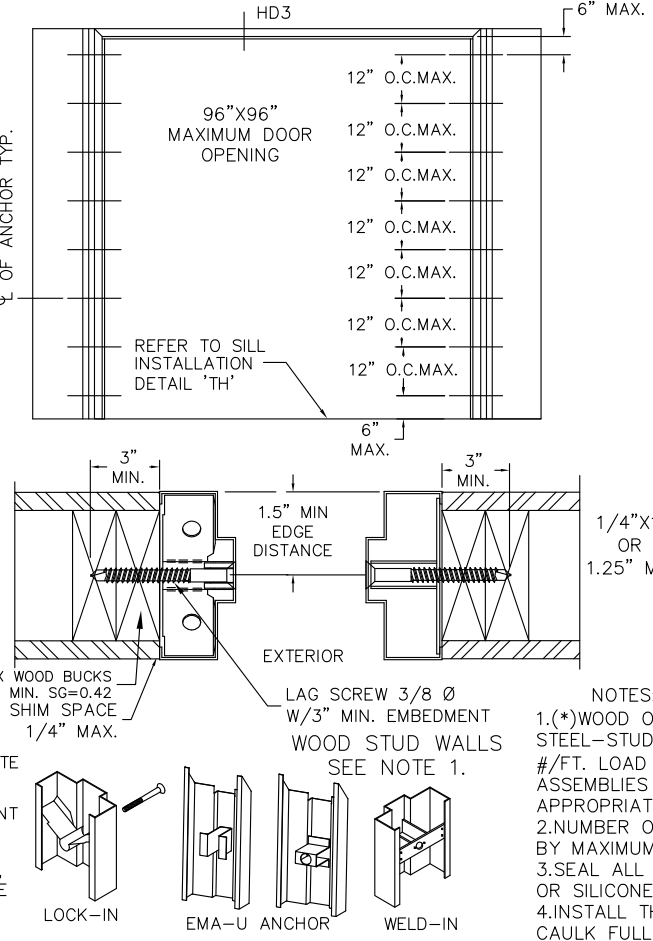
**F** POURED CONCRETE TILT UP WALL UP TO 75 PSF



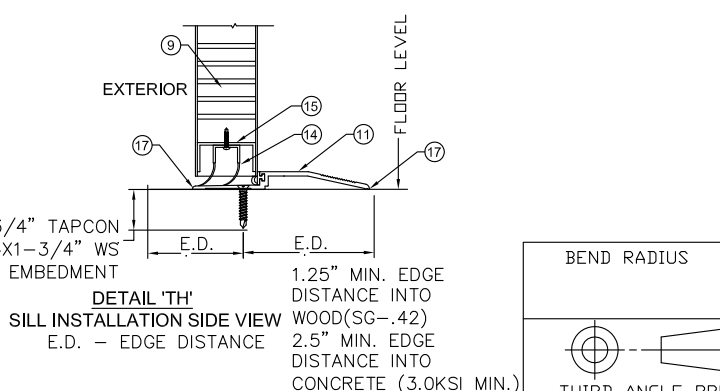
**D** EXISTING MASONRY ANCHOR (EMA) INTO CONCRETE WALL OR CMU UP TO 75 PSF



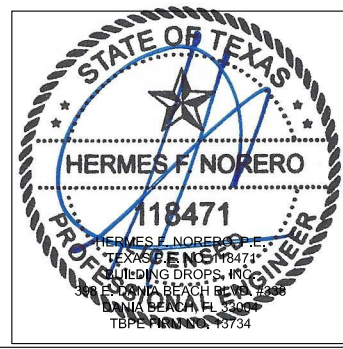
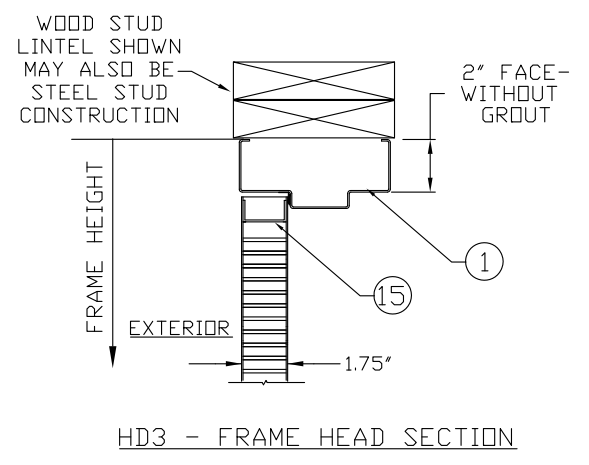
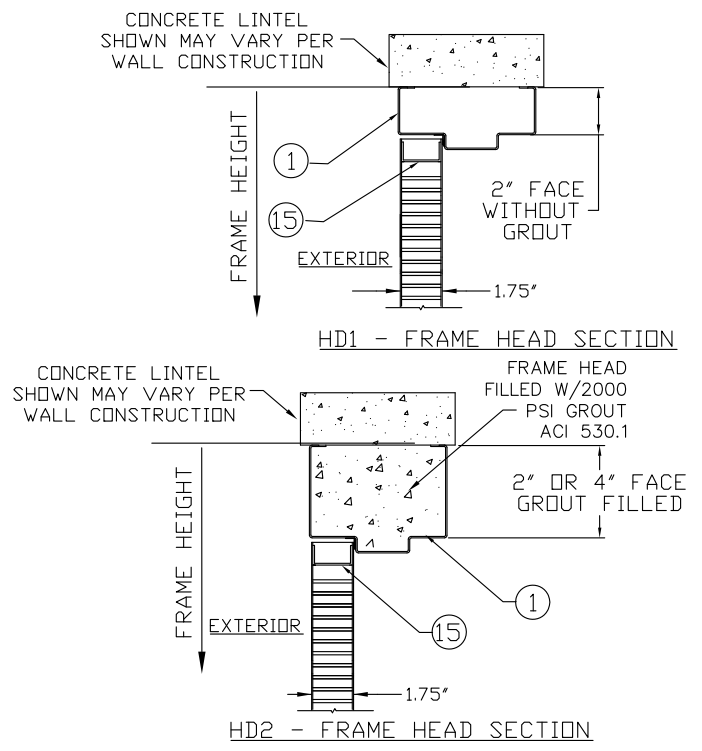
**E** EXISTING MASONRY ANCHOR (EMA) WITH LAG BOLT INTO WOOD STUD WALL UP TO 75 PSF



**DETAIL 'TH'**  
SILL INSTALLATION  
DOUBLE OUTSWING DOORS  
ALSO SEE SHEETS 3, 5, & 17



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



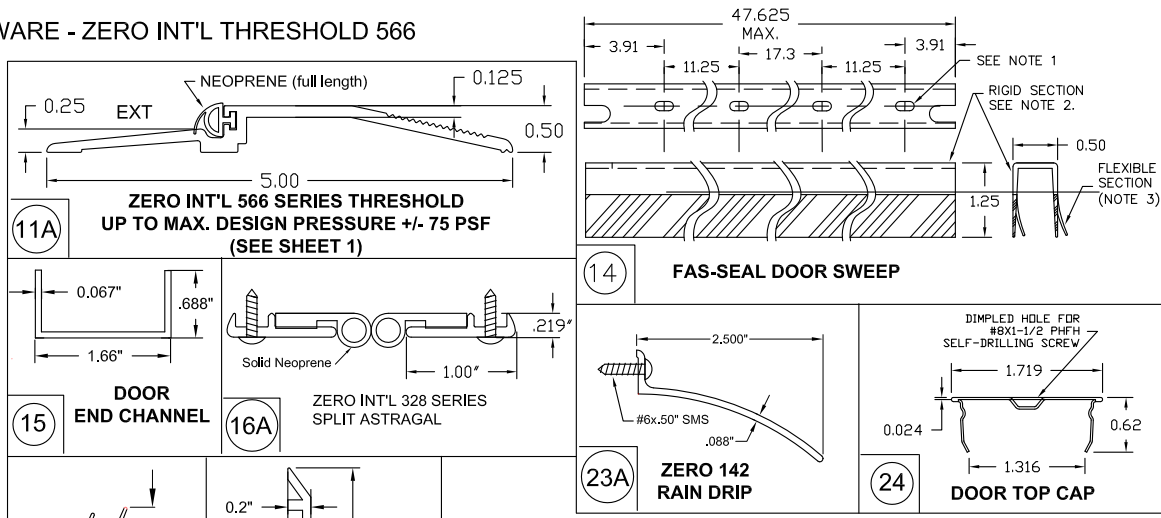
BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN YMF	DATE 05/20/07	ANCHOR DETAILS / INSTALLATION CONDITIONS FOR ASSEMBLIES WITH A DESIGN PRESSURE RATING OF 75 PSF OR LESS	
CHECKED		SIZE FLAT	DWG NO. IRFD07-T
APPROVED		SCALE: NTS	REV B 1-8-20
ENG. APPVL JPD	10/12/07	AUTOCAD	SHEET 4 OF 17

**TABLE 3.1 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566**

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

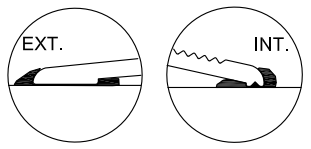
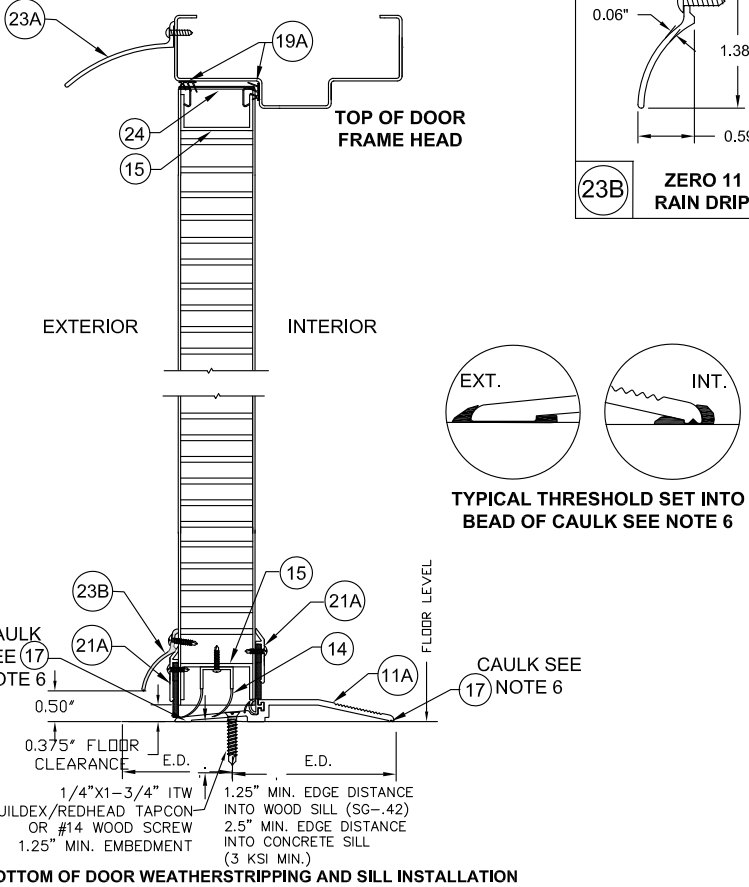
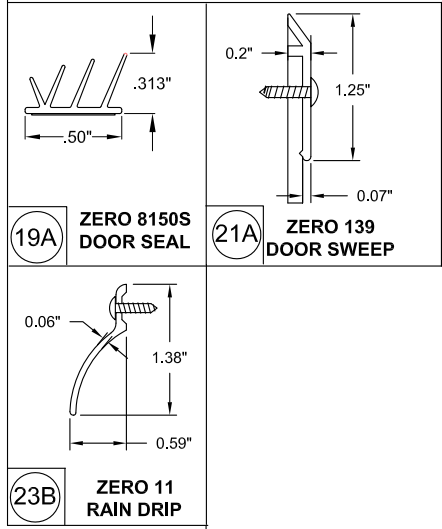
**ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE ELEVATIONS SHEET 1)**

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



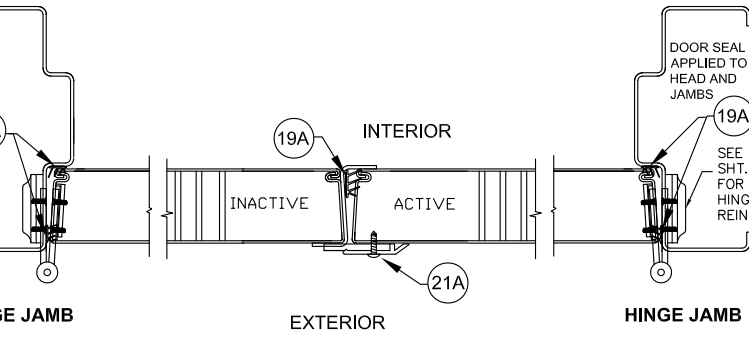
**ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE ELEVATIONS SHEET 1)**

**FOR CONFIGURATIONS: 5, 6, 9, & 11 (SEE ELEVATIONS SHEET 1)**

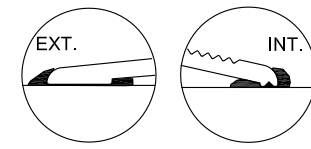
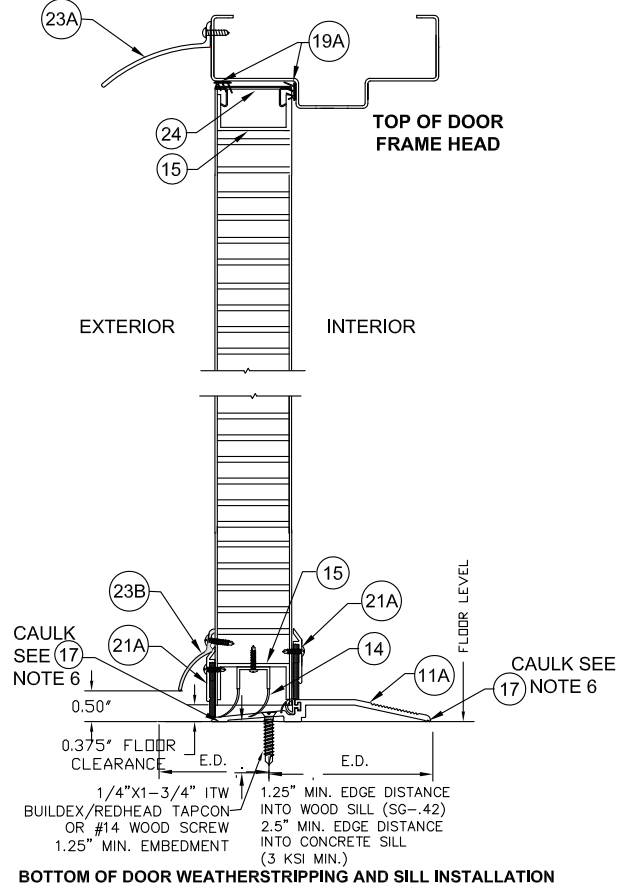


TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6

**BOTTOM OF DOOR WEATHERSTRIPPING AND SILL INSTALLATION**

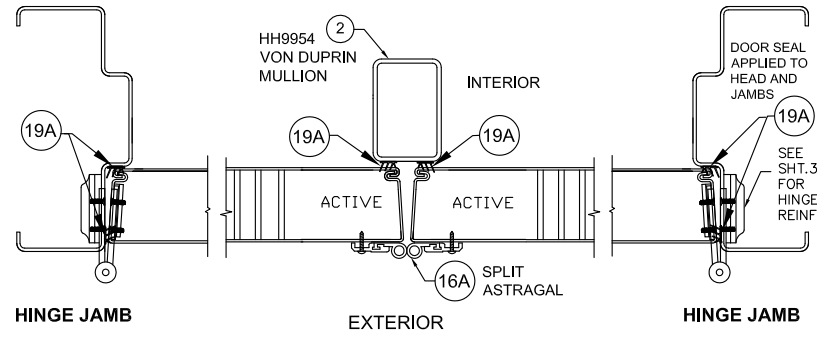


HINGE JAMB INTERIOR HINGE JAMB EXTERIOR



TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6

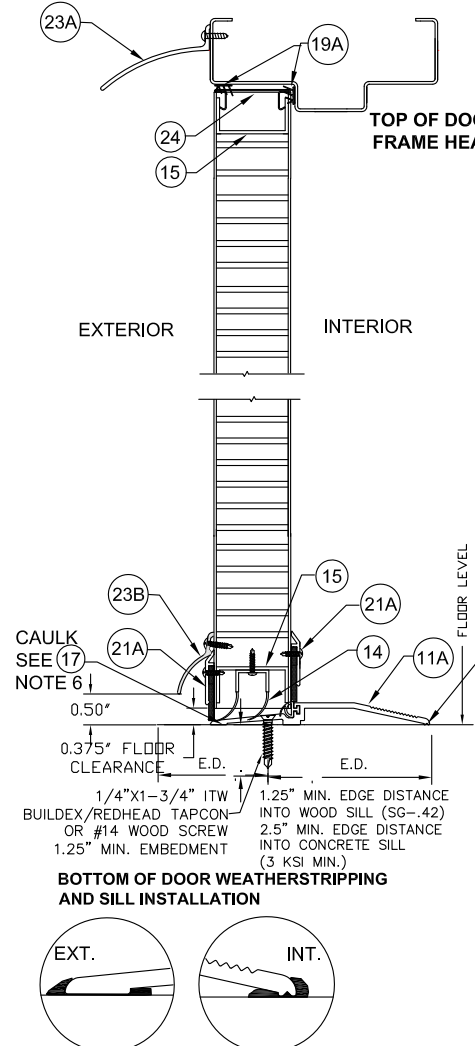
**BOTTOM OF DOOR WEATHERSTRIPPING AND SILL INSTALLATION**



HINGE JAMB INTERIOR HINGE JAMB EXTERIOR HINGE JAMB

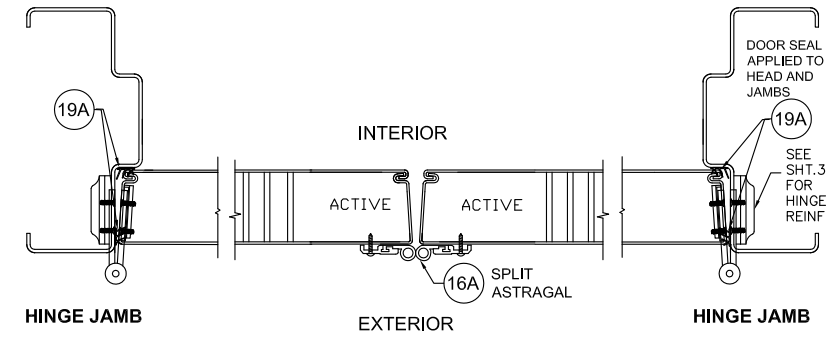
**ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE ELEVATIONS SHEET 1)**

**FOR CONFIGURATIONS: 7 & 8 (SEE ELEVATIONS SHEET 1)**

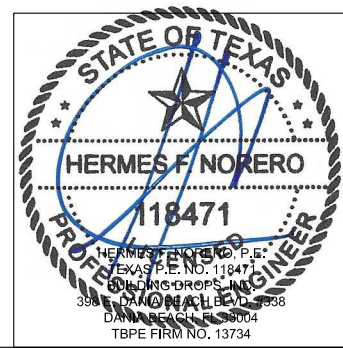


**TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6**

- 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. FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11A) ARE REQUIRED 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



HINGE JAMB INTERIOR HINGE JAMB EXTERIOR



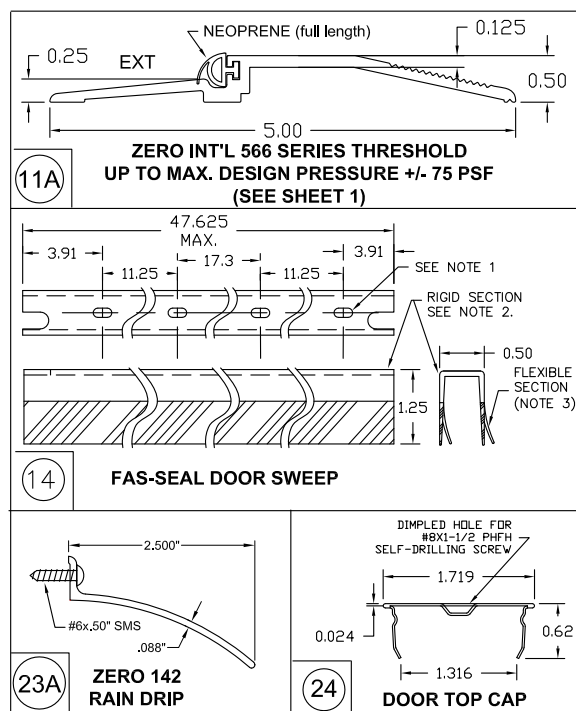
BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN	DATE	DOUBLE FLUSH DOOR PERIMETER SEAL HARDWARE APPROVED WHERE WATER INFILTRATION IS REQUIRED	
YMF	05/20/07	SIZE	FLAT
CHECKED		DWG NO.	IRFD07-T
APPROVED		REV	B 1-8-20
ENG. APPVL	10/11/07	SCALE:	NTS AUTOCAD
JPD		SHEET	5 of 17



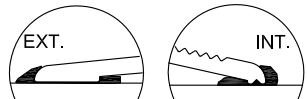
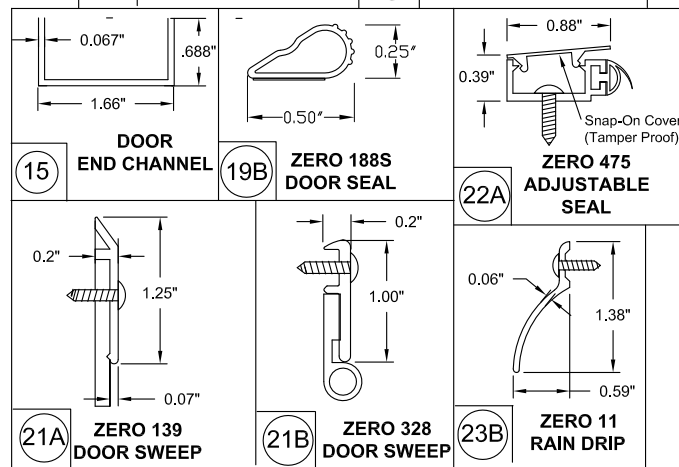
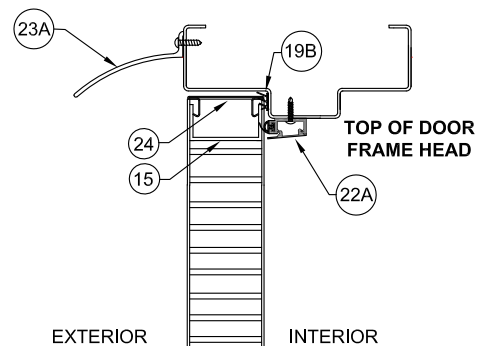
**TABLE 3.2 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566**

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

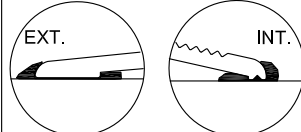
**ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 70 PSF - (SEE CONFIGURATION 10, ELEVATIONS SHEET 1)**



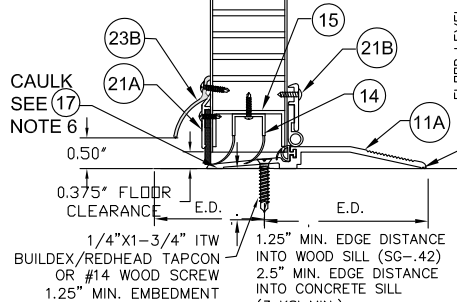
**FOR CONFIGURATION: 10 (SEE ELEVATIONS SHEET 1)**



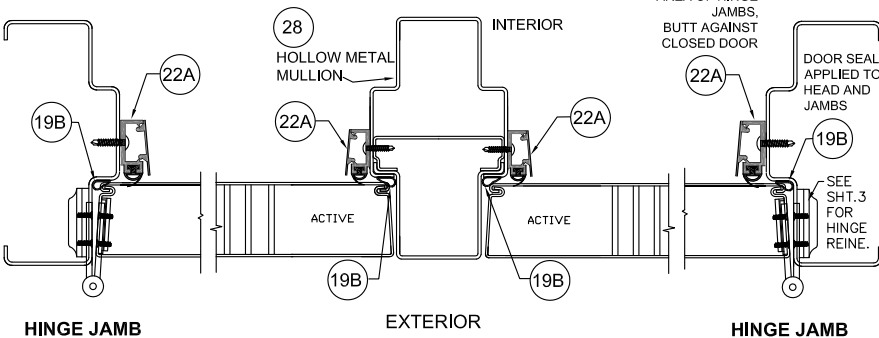
**TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6**



**TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6**



**BOTTOM OF DOOR WEATHERSTRIPPING AND SILL INSTALLATION**



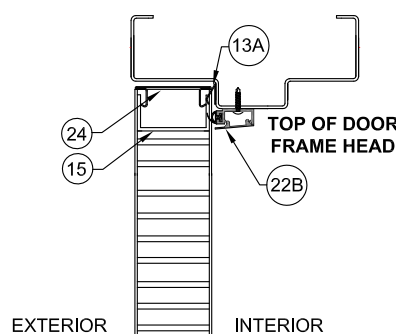
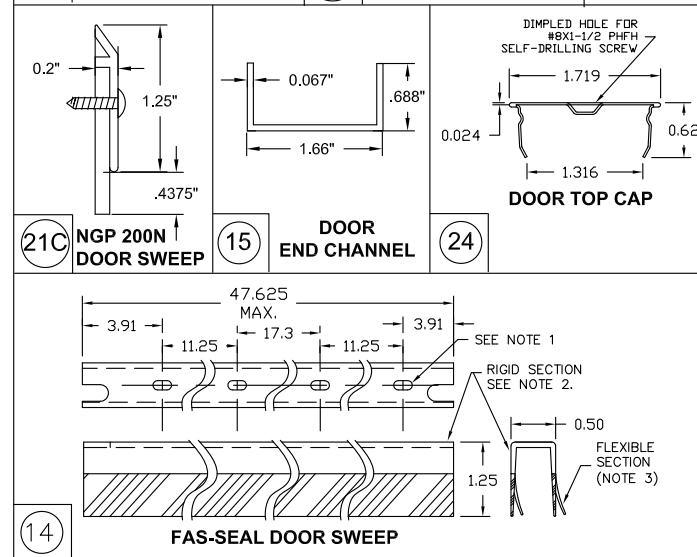
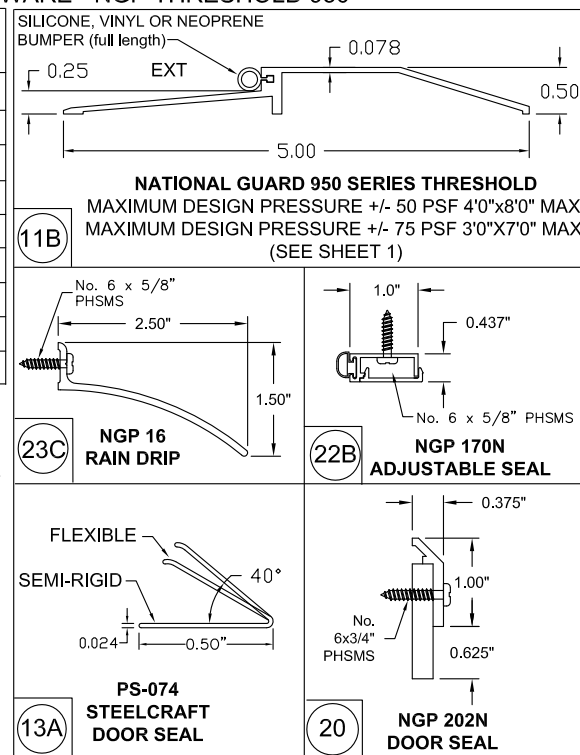
APPLIED TO THE SOFFIT AREA OF HINGE JAMBS, BUTT AGAINST CLOSED DOOR

**TABLE 3.3 WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950**

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

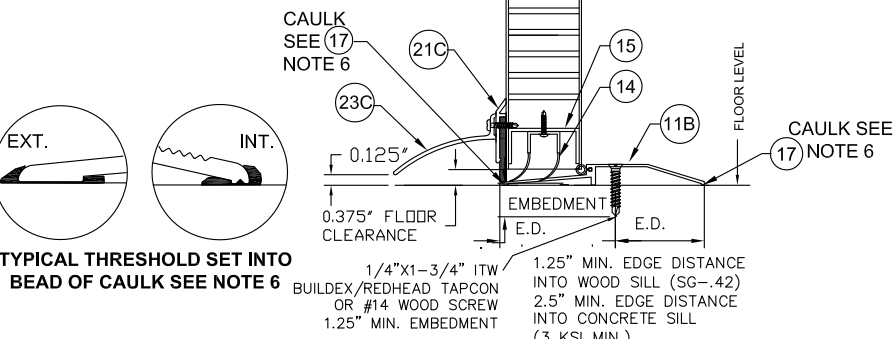
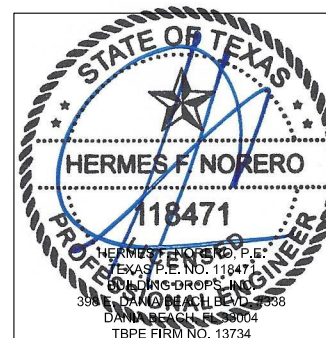
**NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING ±70 PSF FOR MAXIMUM DOOR SIZE OF 3'-0" X 7'-0" MAXIMUM DESIGN PRESSURE +50/-50 PSF FOR MAXIMUM DOOR SIZE OF 4'-0" X 8'-0" (SEE CONFIGURATION 10, ELEVATIONS SHEET 1)**

**FOR CONFIGURATION: 10 (SEE ELEVATIONS SHEET 1)**

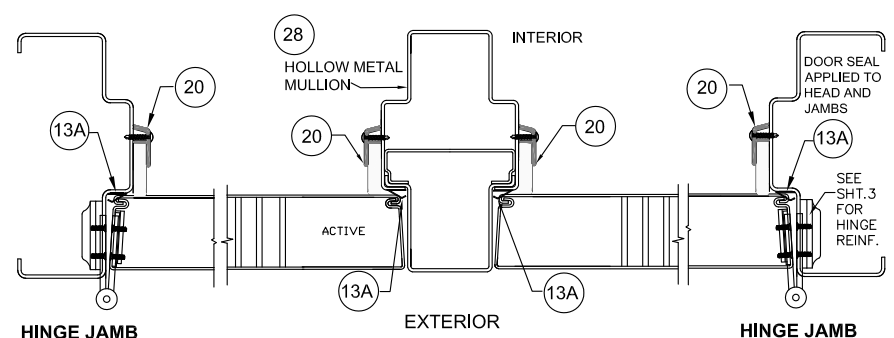


**NOTES:**

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. FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11A OR 11B) AS APPLICABLE ARE REQUIRED 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



**BOTTOM OF DOOR WEATHERSTRIPPING AND SILL INSTALLATION**

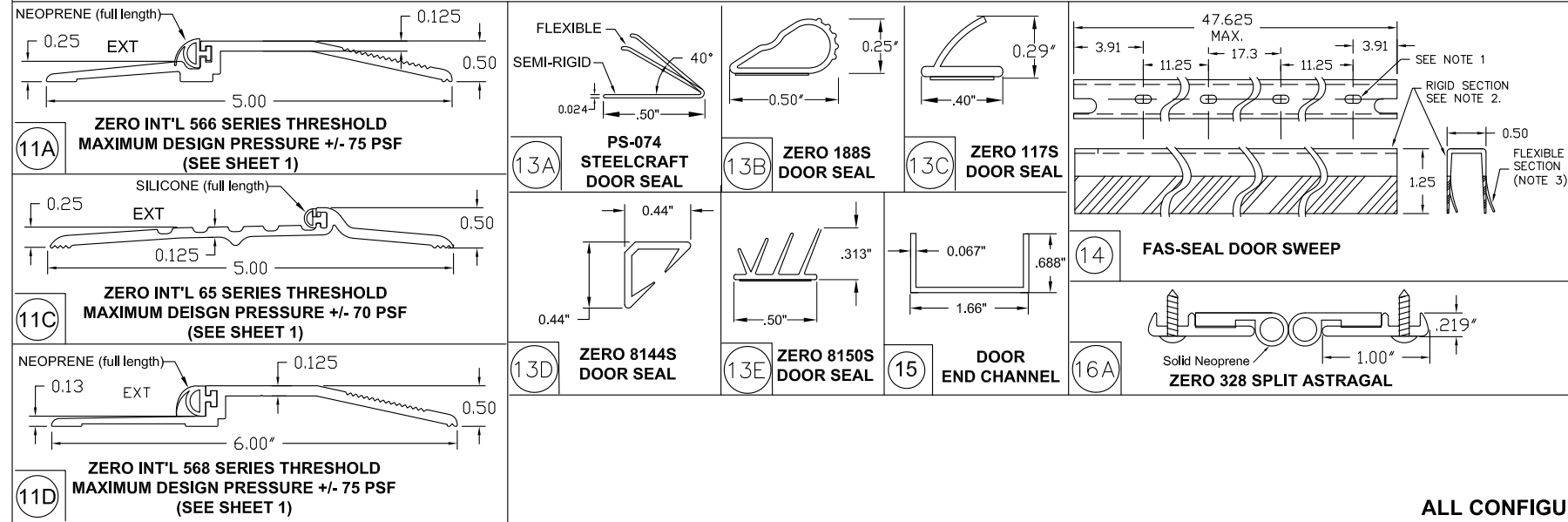


BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	
THIRD ANGLE PROJECTION	DATE	TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN	05/20/07	DOUBLE FLUSH DOOR PERIMETER SEAL HARDWARE APPROVED WHERE WATER INFILTRATION IS REQUIRED	
CHECKED		SIZE	REV
APPROVED		FLAT	DWG NO.
ENG. APPVL	10/11/07	SCALE: NTS	IRFD07-T
JPD		AUTOCAD	B 1-8-20
			SHEET 6 of 17

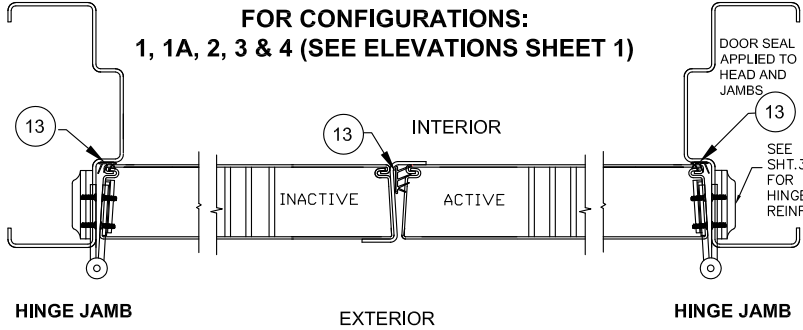
**TABLE 4.1 NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS**

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

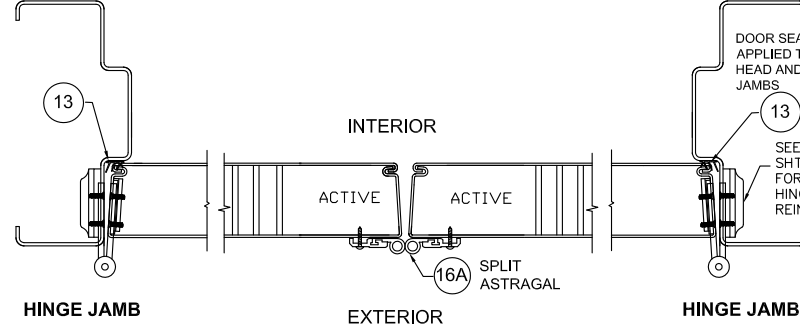
**ZERO INT'L 566 AND 568 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED**  
**MAXIMUM DESIGN PRESSURE RATING 75 PSF.**  
**EXCEPT CONFIGURATION 10 LIMITED TO 70 PSF**  
**ZERO INT'L 65 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED**  
**MAXIMUM DESIGN PRESSURE RATING 70 PSF**  
**MAXIMUM DOOR SIZE 4'-0" X 8'-0".**  
**(SEE ELEVATIONS SHEET 1)**



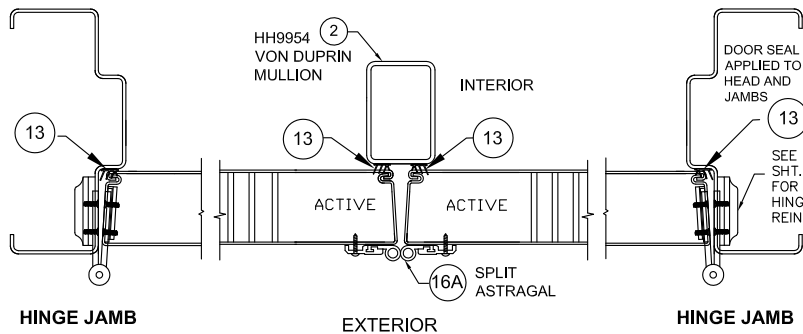
**FOR CONFIGURATIONS: 1, 1A, 2, 3 & 4 (SEE ELEVATIONS SHEET 1)**



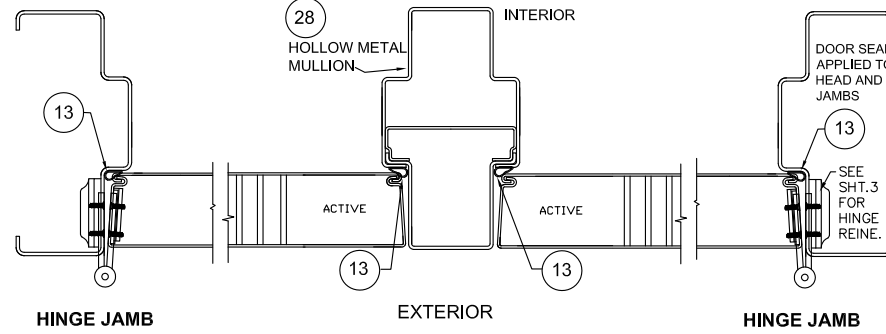
**FOR CONFIGURATIONS: 7 & 8 (SEE ELEVATIONS SHEET 1)**



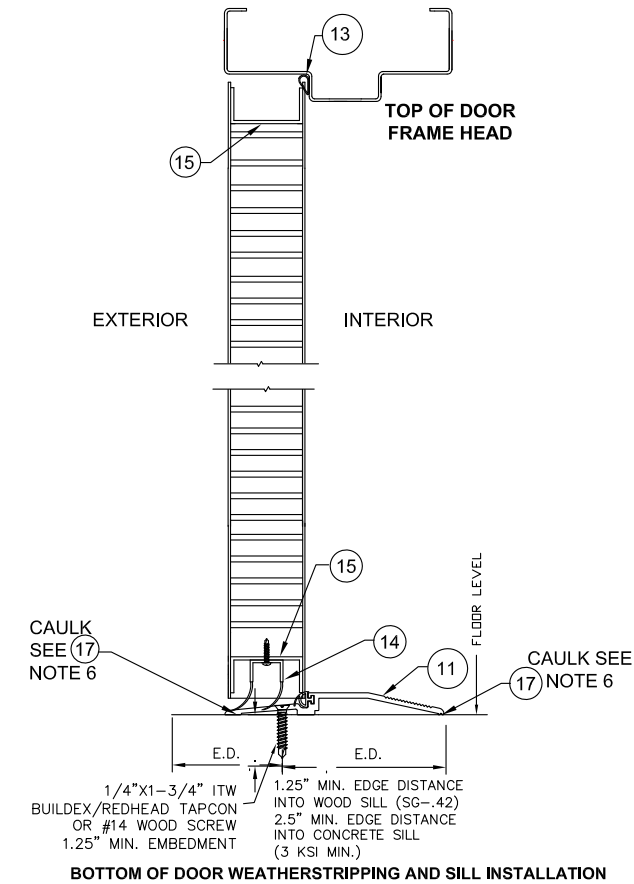
**FOR CONFIGURATIONS: 5, 6, 9, & 11 (SEE ELEVATIONS SHEET 1)**



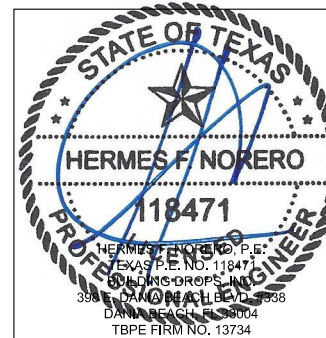
**FOR CONFIGURATION: 10 (SEE ELEVATIONS SHEET 1)**



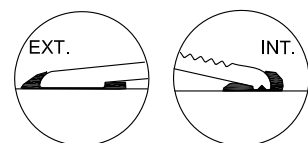
**ALL CONFIGURATIONS**



1/4"x1-3/4" ITW BUILDEX/REDHEAD TAPCON OR #14 WOOD SCREW INTO CONCRETE SILL 1.25" MIN. EMBEDMENT  
 1.25" MIN. EDGE DISTANCE INTO WOOD SILL (SG-.42)  
 2.5" MIN. EDGE DISTANCE INTO CONCRETE SILL (3 KSI MIN.)



- 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. FAS-SEAL DOOR SWEEP (14), DOOR SEAL (13A, 13B, 13C, 13D, 13E) AND THRESHOLD (11A, 11C, 11D) AS APPLICABLE, ARE REQUIRED 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



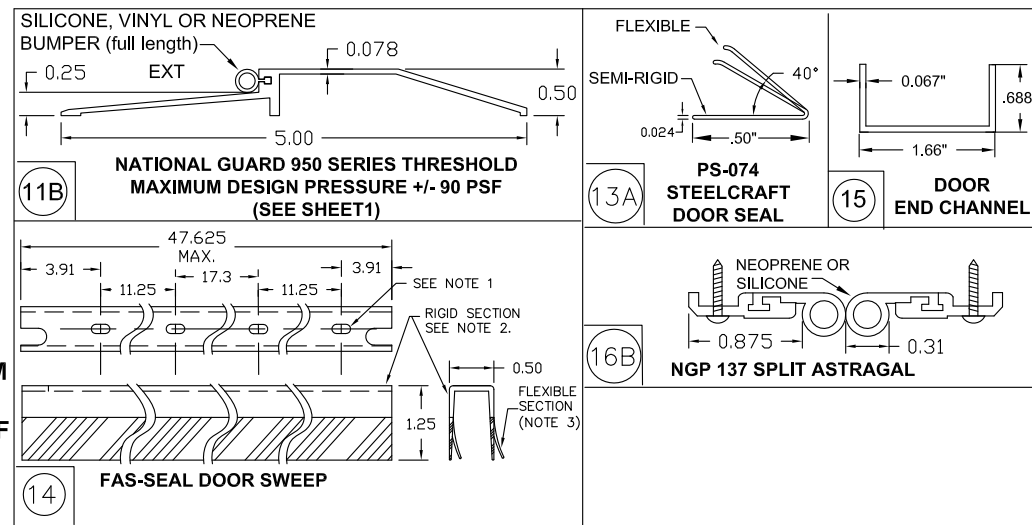
**TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6**

BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN YMF	DATE 05/20/07	DOUBLE FLUSH DOOR PERIMETER SEAL ZERO INT'L HARDWARE APPROVED WHERE WATER INFILTRATION IS NOT REQUIRED	
CHECKED		SIZE FLAT	DWG NO. IRFD07-T
APPROVED		SCALE: NTS	REV B 1-8-20
ENG. APPVL JPD	10/11/07	AUTOCAD	SHEET 7 of 17

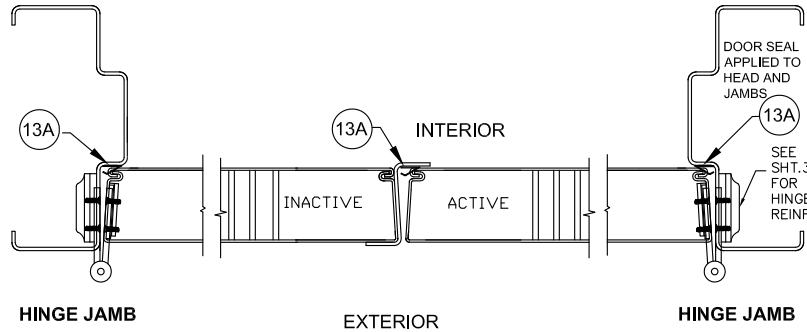
**TABLE 4.2 NON WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD**

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11B	950 THRESHOLD	NGP
13A	PS074 DOOR SEAL	STEELCRAFT
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
16B	137 SPLIT ASTRAGAL	NGP

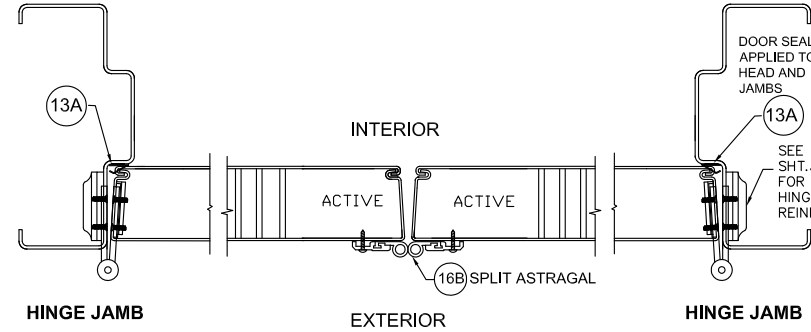
**NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED - MAXIMUM DESIGN PRESSURE 90 PSF FOR MAXIMUM DOOR SIZE OF 4'-0" X 8'-0" EXCEPT CONFIGURATION 10 LIMITED TO MAX 70 PSF (SEE ELEVATIONS SHEET 1)**



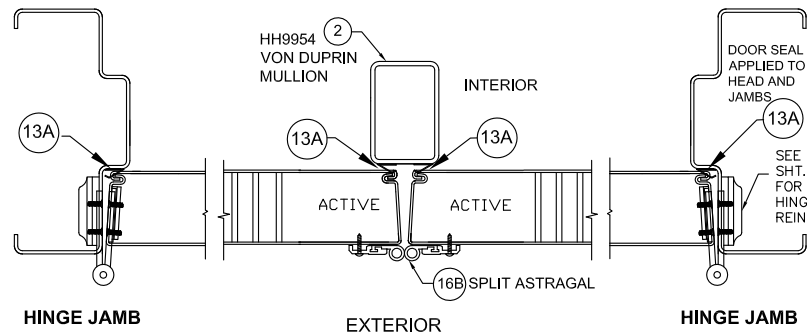
**FOR CONFIGURATIONS: 1, 1A, 2, 3 & 4 (SEE ELEVATIONS SHEET 1)**



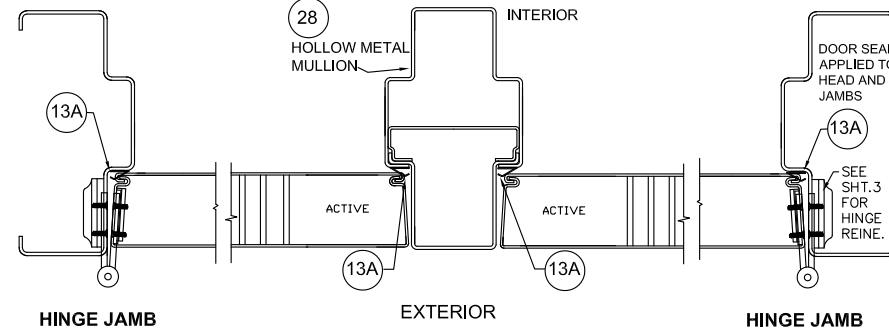
**FOR CONFIGURATIONS: 7 & 8 (SEE ELEVATIONS SHEET 1)**



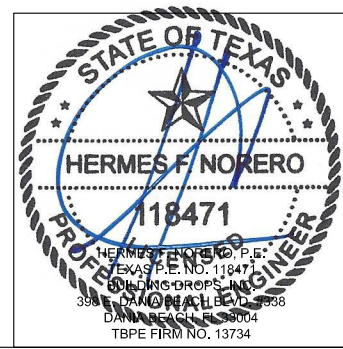
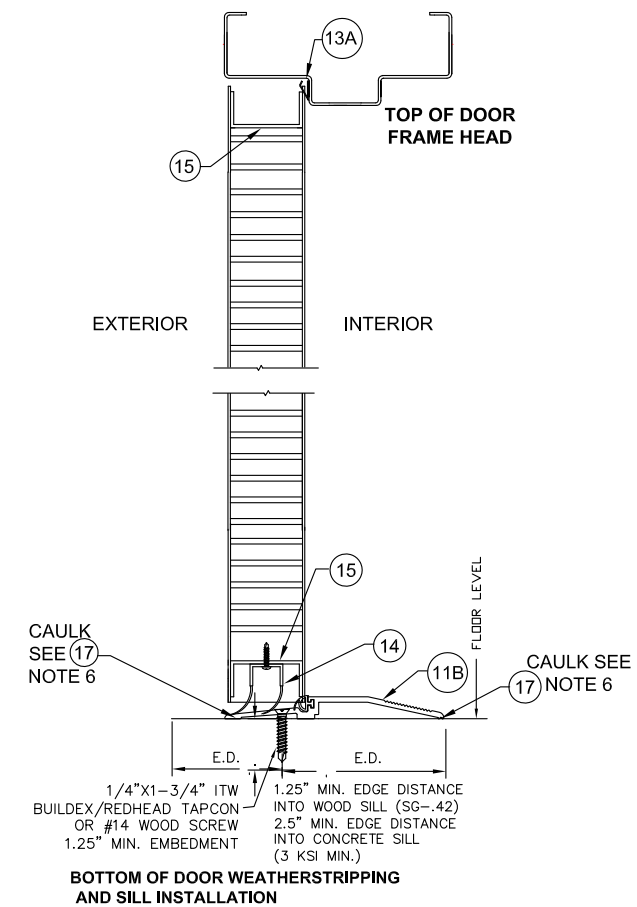
**FOR CONFIGURATIONS: 5, 6, 9, & 11 (SEE ELEVATIONS SHEET 1)**



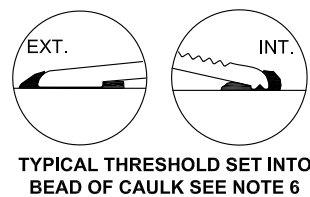
**FOR CONFIGURATION: 10 (SEE ELEVATIONS SHEET 1)**



**ALL CONFIGURATIONS**



- NOTES:**
- SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  - DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
  - DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
  - FAS-SEAL DOOR SWEEP (14), DOOR SEAL (13A) AND THRESHOLD (11B) AS APPLICABLE, ARE REQUIRED FOR ALL INSTALLATIONS.
  - SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
  - INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL



BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES			
DRAWN YMF	DATE 05/20/07	DOUBLE FLUSH DOOR PERIMETER NGP SEAL HARDWARE APPROVED WHERE WATER INFILTRATION IS NOT REQUIRED			
CHECKED		SIZE	FLAT	DWG NO.	REV
APPROVED				IRFD07-T	B 1-8-20
ENG. APPVL JPD	10/11/07	SCALE:	NTS	AUTOCAD	SHEET 8 of 17



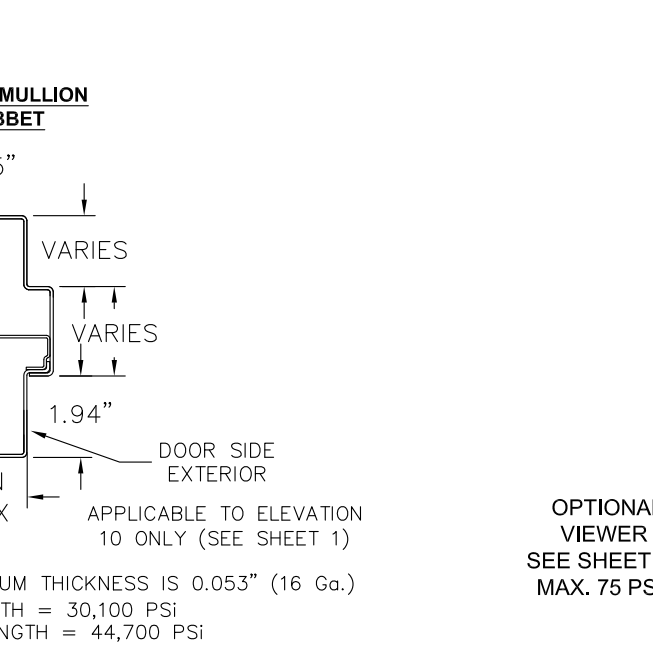
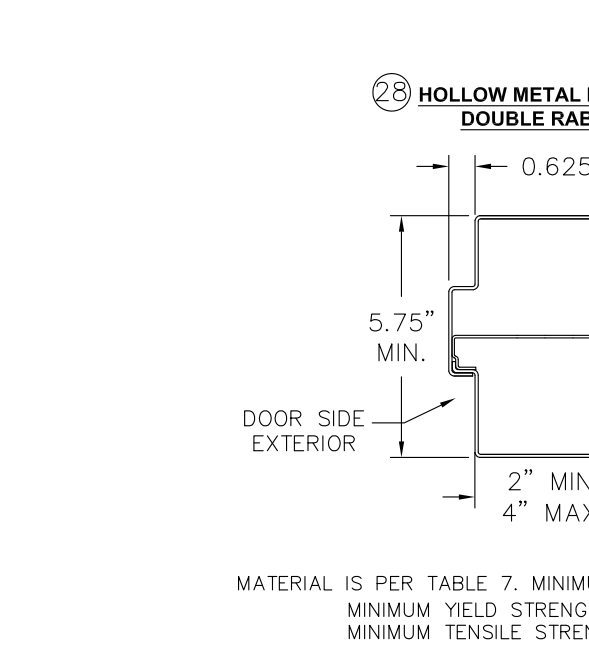
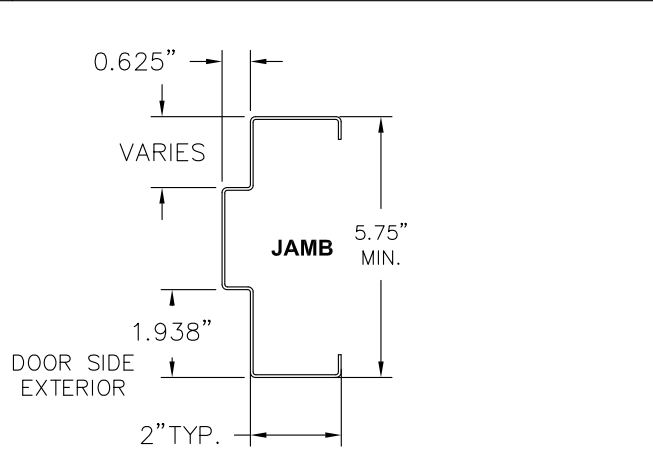
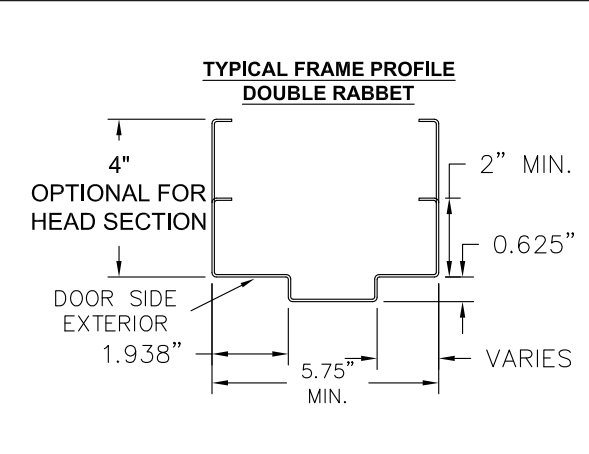
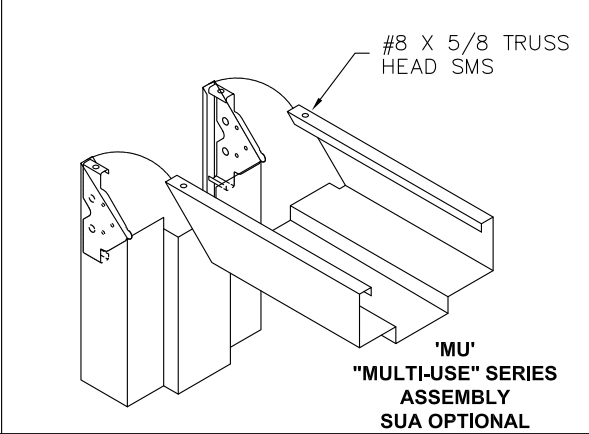
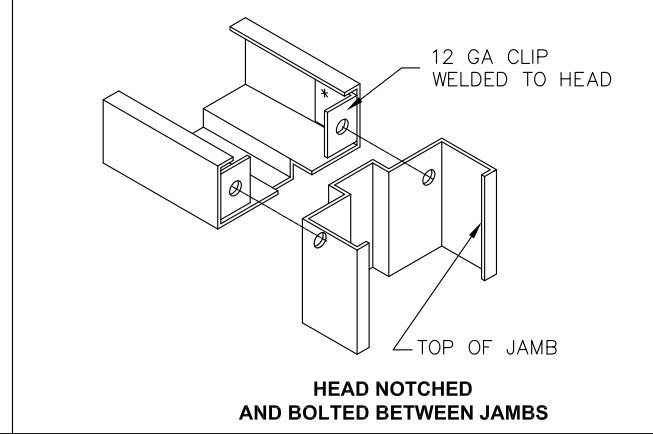
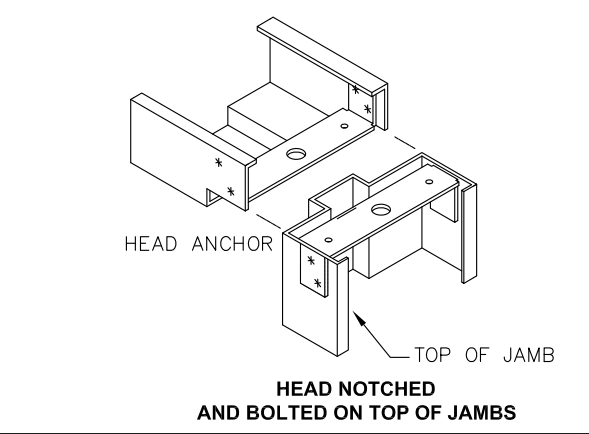
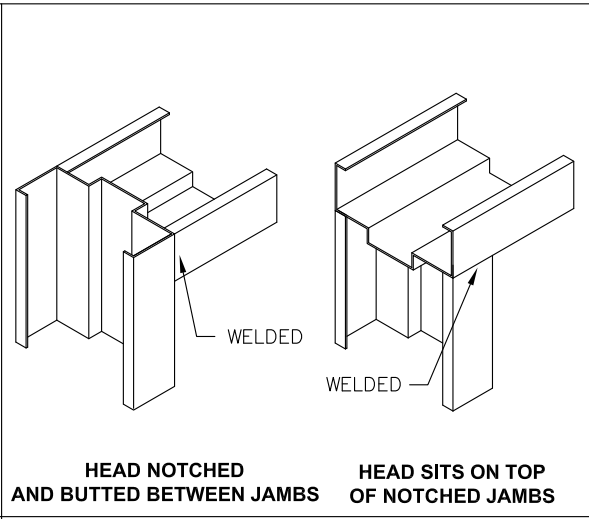
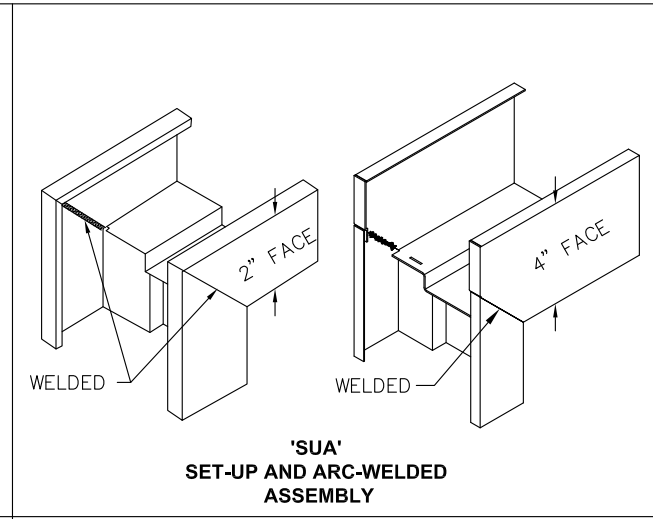
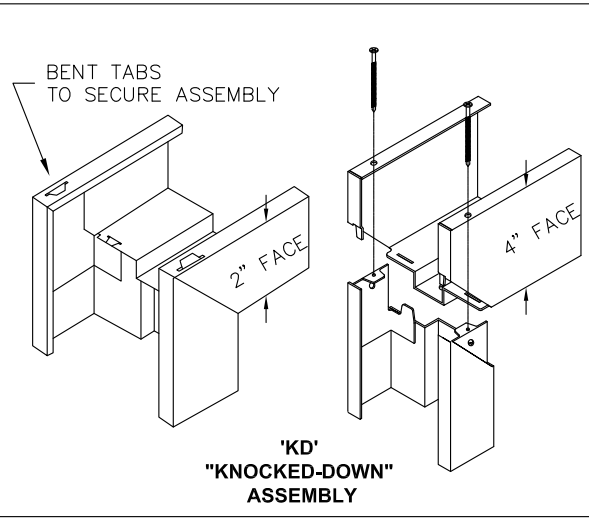


TABLE 7. STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSi	TENSILE KSi
CRS	A366	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV: A60	A924	MIN. 31.2	MIN. 73.2
SS: 304,306	A240		

TABLE 6. AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

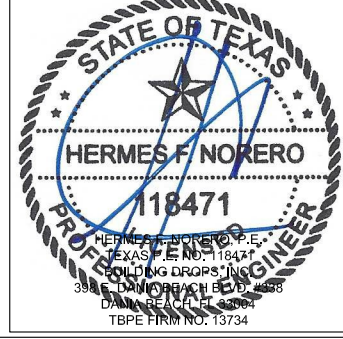
FRAME SERIES	JAMB DEPTH	MAX. OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067"

TABLE 5. AVAILABLE STEELCRAFT DOOR CONFIGURATIONS

CORE MATERIAL PER SHT.15	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	VARIES SEE SHEET 2 TABLE 1		CRS GALV	16/.053" 14/.067"
HONEYCOMB POLYSTYRENE POLYURETHANE	VARIES SEE SHEET 2 TABLE 1		STAINLESS STEEL	16/.053"

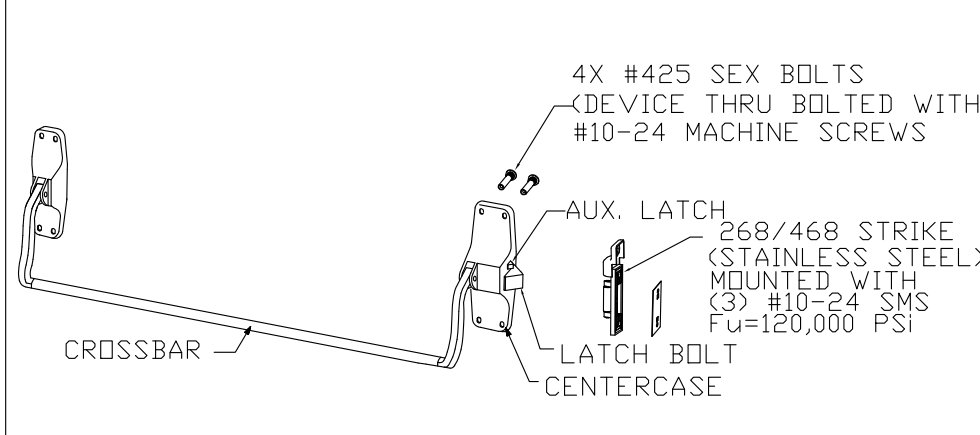
**NOTES:**

1. DOOR CONSTRUCTION
  - 1.1. MINIMUM DOOR THICKNESS - 1 3/4"
  - 1.2. DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT AVAILABILITY FROM MANUFACTURER (SEE SHEET 2 FOR AVAILABLE HARDWARE)
  - 1.3. PEEP-HOLES AND DOOR VIEWERS ARE PERMITTED TO BE USED IN DOORS WITH A MAXIMUM DESIGN PRESSURE OF +/- 75 PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION.
2. FRAME CONSTRUCTION
  - 2.1. MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
  - 2.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE 6)
3. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 7.

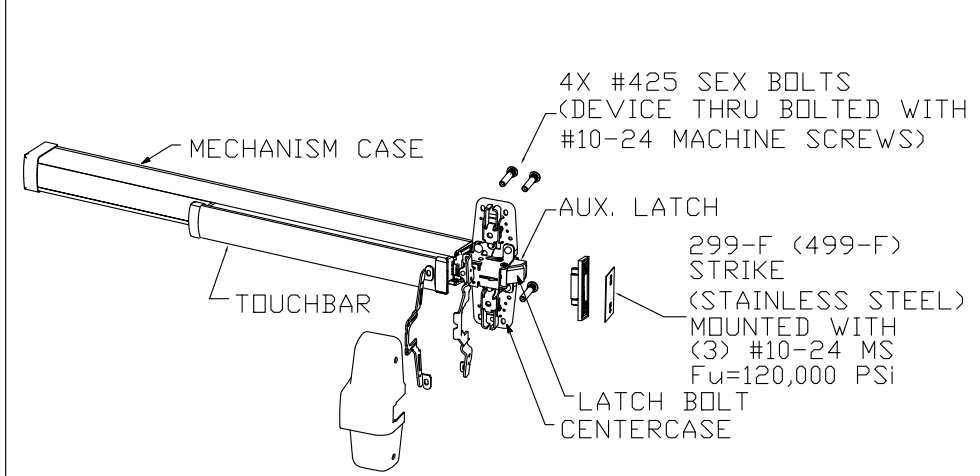


BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES			
DRAWN YMF	DATE 05/20/07	FRAME PROFILE, CORNER DETAILS AND DOOR FRAME MATERIAL, AND SIZE OPTIONS			REV B 1-8-20
CHECKED		SIZE FLAT	DWG NO. IRFD07-T	SHEET 9 OF 17	
APPROVED		SCALE: NTS	AUTOCAD		
ENG. APPVL JPD	10/12/07				

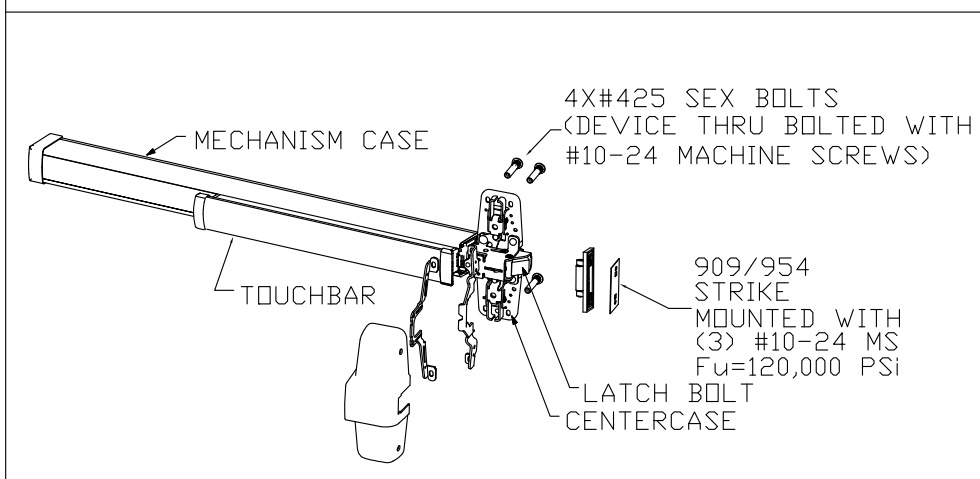
MATERIAL IS PER TABLE 7. MINIMUM THICKNESS IS 0.053" (16 Ga.)  
MINIMUM YIELD STRENGTH = 30,100 PSI  
MINIMUM TENSILE STRENGTH = 44,700 PSI



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

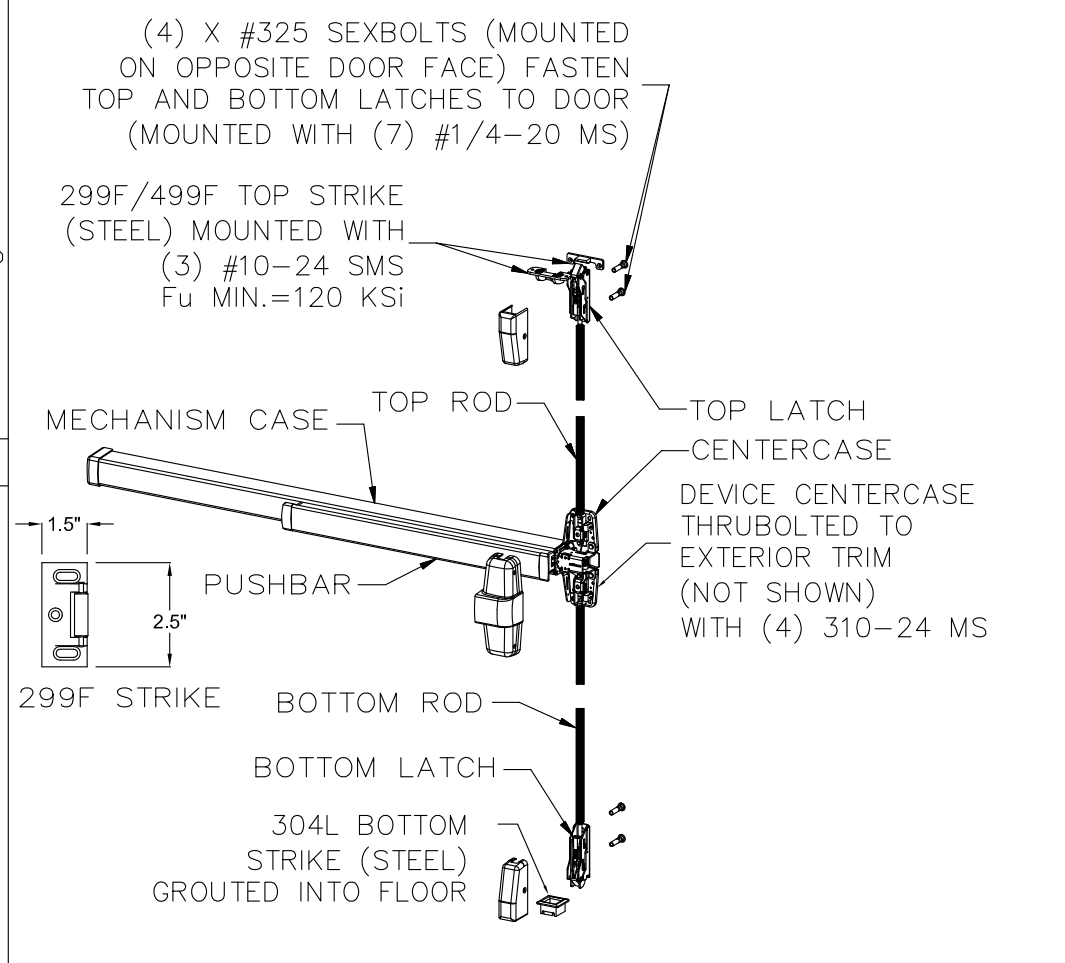


VON DUPRIN 98/99 & 98/99-F RIM DEVICE  
USED IN CONFIGURATION: 6

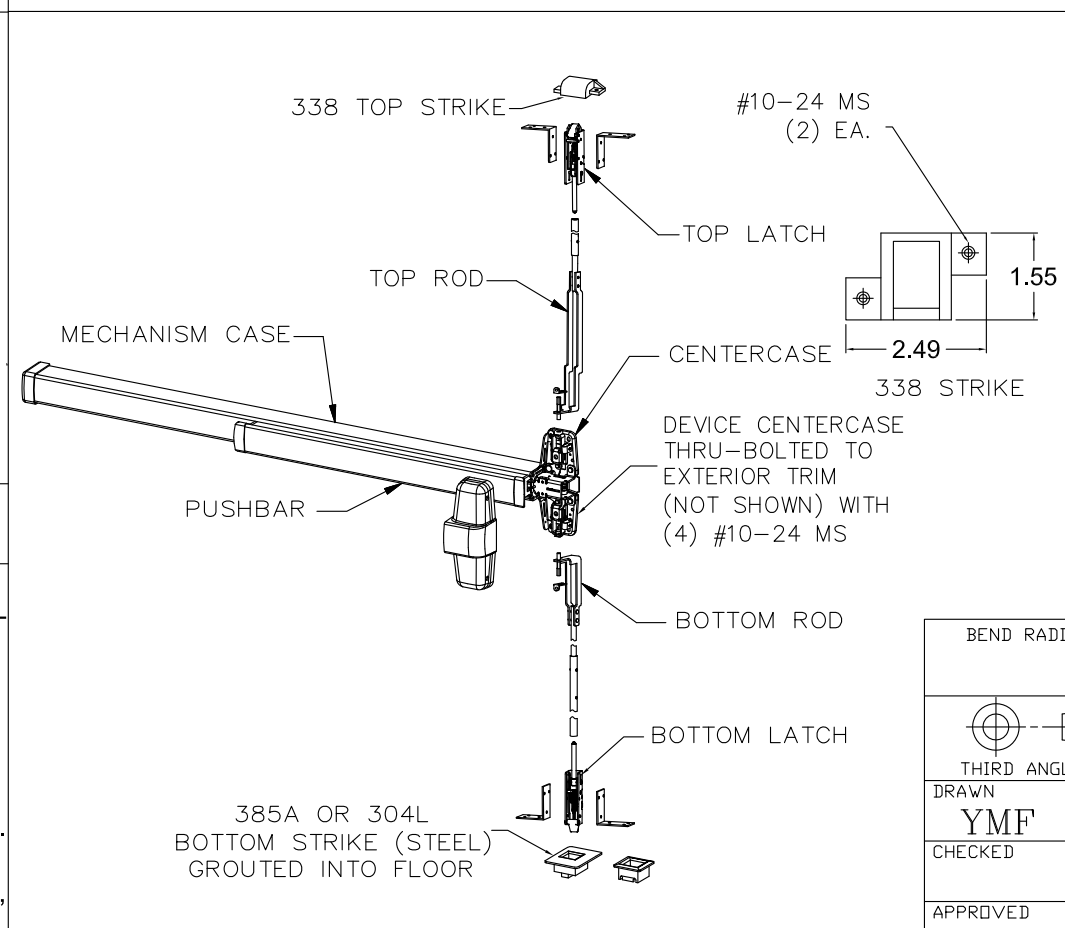


VON DUPRIN XP98/99 & XP98/99-F  
USED IN CONFIGURATION: 5

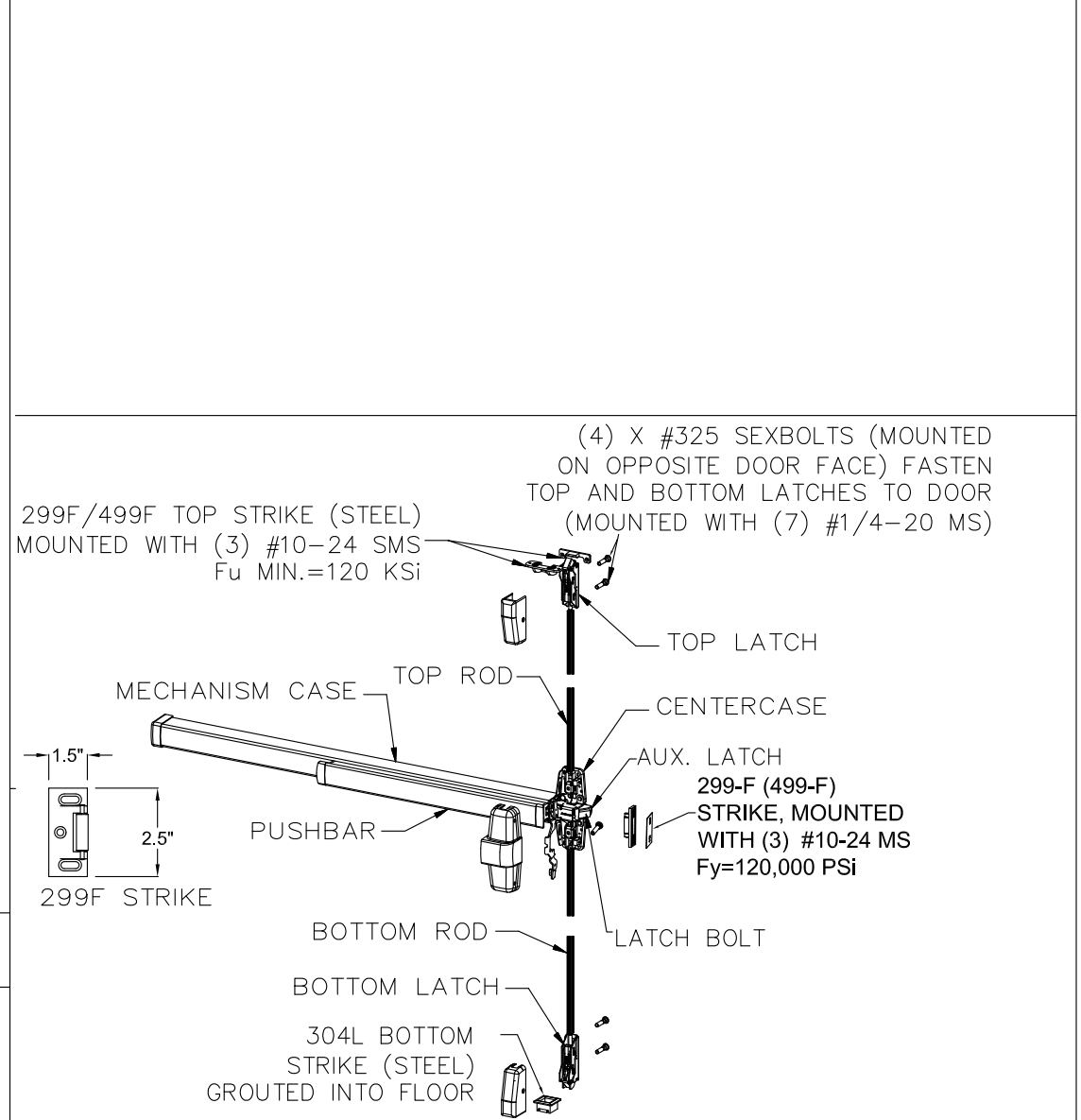
**NOTES:**  
 1. ELECTRICAL FUNCTIONS/INSTALLATION AND FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND TO BE REVIEWED AND APPROVED BY BUILDING OFFICIAL.  
 2. EXIT HARDWARE OPTIONS:  
 FOR 98/99 & XP98/99 SERIES - OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN; TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
 FOR 88-F SERIES - OPTION E; TRIM: ALL APPLICABLE TRIMS AVAILABLE. PN MODEL OFFERED.  
 FOR 33/35-F SERIES - OPTIONS RX, LX, EL, SS, ALK, CD, CX, E, F, LD, PN, QEL; TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
 FOR 2670 GUARD-X; TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
 TRIM: ALL APPLICABLE TRIMS AVAILABLE.



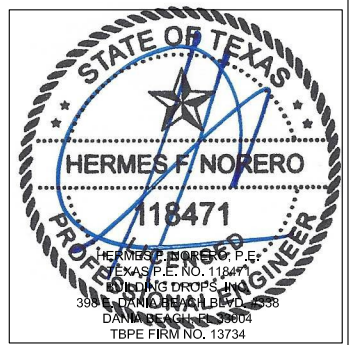
VON DUPRIN 98/9927 & 98/9927-F SURFACE VERTICAL ROD EXIT DEVICE  
USED IN CONFIGURATION: 7



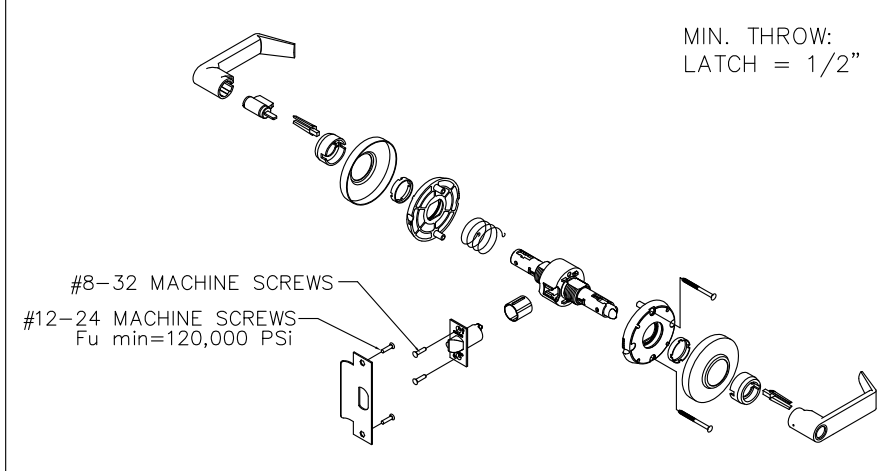
VON DUPRIN 98/9947-F & HH98/9947 WITH 2-3/4" BACKSET  
CONCEALED VERTICAL ROD EXIT DEVICE  
USED IN CONFIGURATION: 8



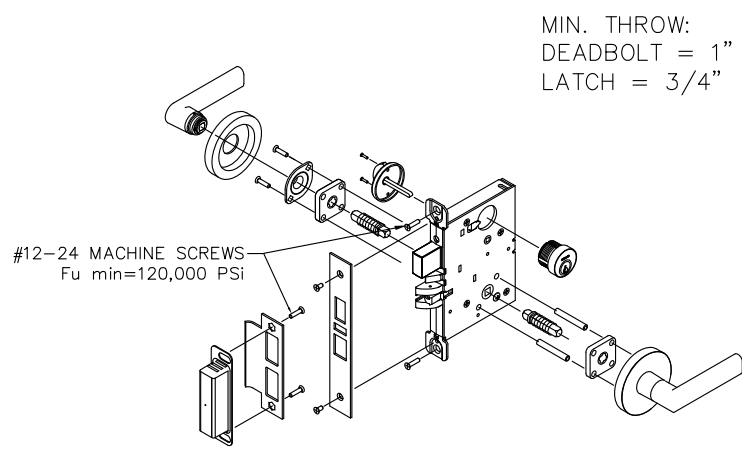
VON DUPRIN 98/9957 OR 98/9957-F THREE-POINT LATCHING DEVICE  
USED IN CONFIGURATIONS: 9 & 10



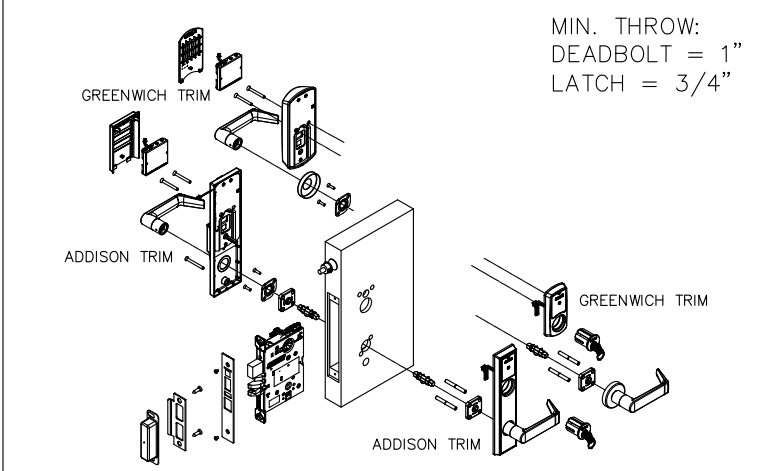
BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES.	
DRAWN YMF	DATE 05/20/07	EXIT HARDWARE FOR FLUSH DOUBLE DOORS.	
CHECKED	CDATE	SIZE FLAT	DWG NO. IRFD07-T
APPROVED	ADATE	SCALE: NTS	REV B 1-8-20
ENG. APPVL JPD	EDATE 10/12/07	AUTOCAD	SHEET 10 OF 17



MIN. THROW:  
LATCH = 1/2"



MIN. THROW:  
DEADBOLT = 1"  
LATCH = 3/4"

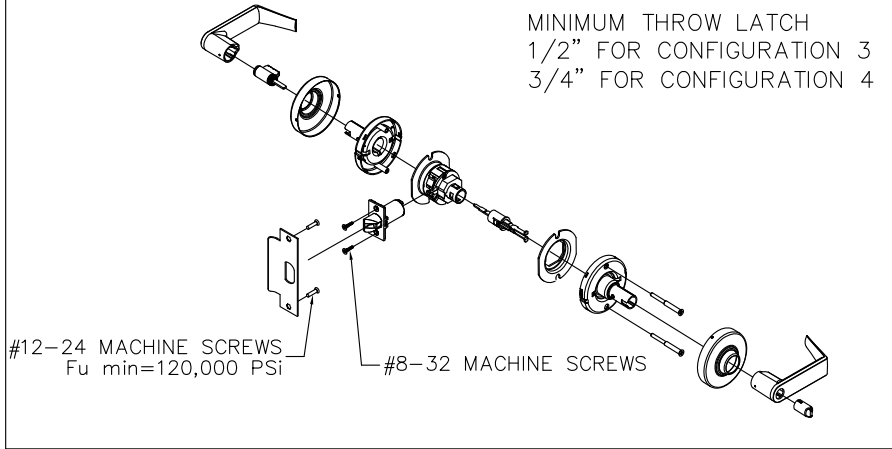


MIN. THROW:  
DEADBOLT = 1"  
LATCH = 3/4"

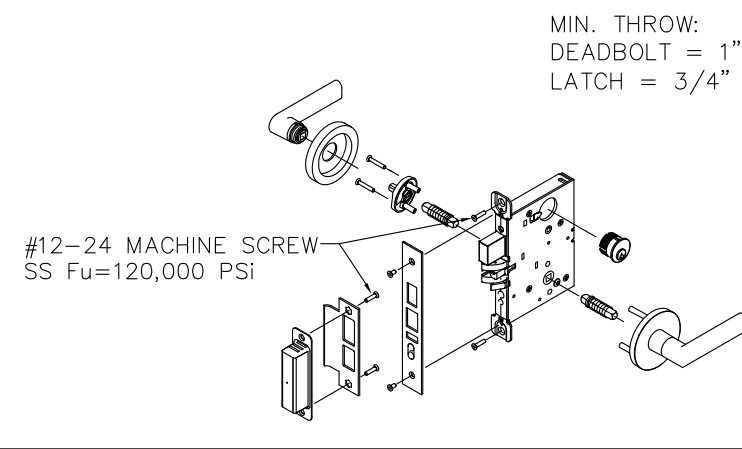
SCHLAGE AL SERIES  
CYLINDRICAL LEVER LOCKSET WITH 1/2" THROW LATCH  
USED IN CONFIGURATION: 2

SCHLAGE L/LV 9400 SERIES MORTISE LOCKSET  
W/ DEADBOLT. USED IN CONFIGURATION: 1

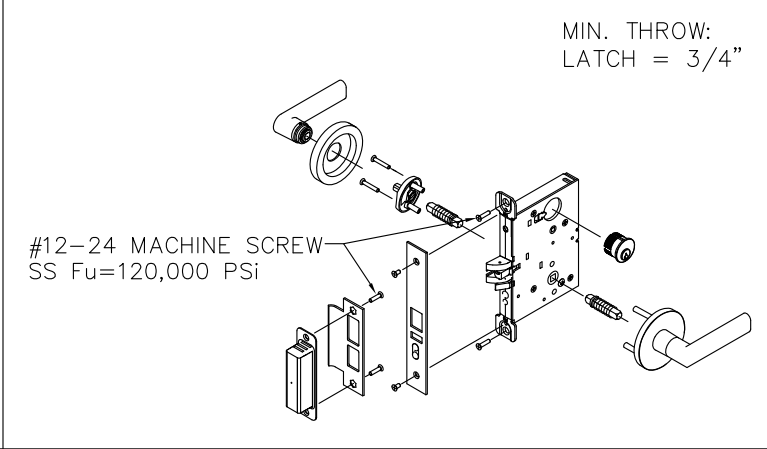
SCHLAGE LE-MD, LEB-MD SERIES MORTISE LOCKSET  
W/ DEADBOLT. USED IN CONFIGURATION: 1



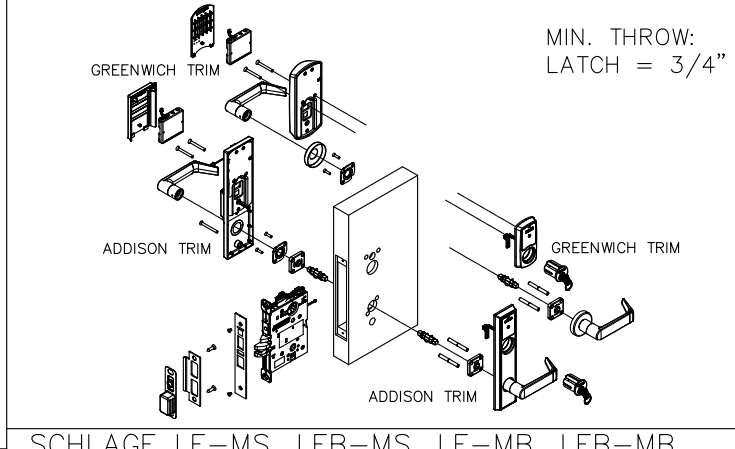
MINIMUM THROW LATCH  
1/2" FOR CONFIGURATION 3  
3/4" FOR CONFIGURATION 4



MIN. THROW:  
DEADBOLT = 1"  
LATCH = 3/4"



MIN. THROW:  
LATCH = 3/4"



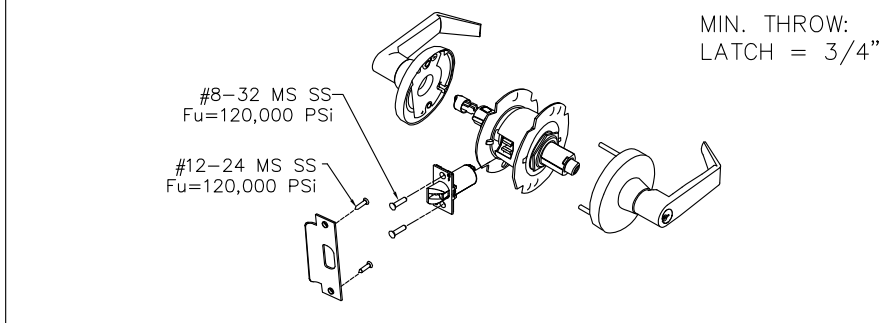
MIN. THROW:  
LATCH = 3/4"

SCHLAGE D/ND-SERIES CYLINDRICAL LOCKSET.  
USED IN CONFIGURATIONS: 3 & 4

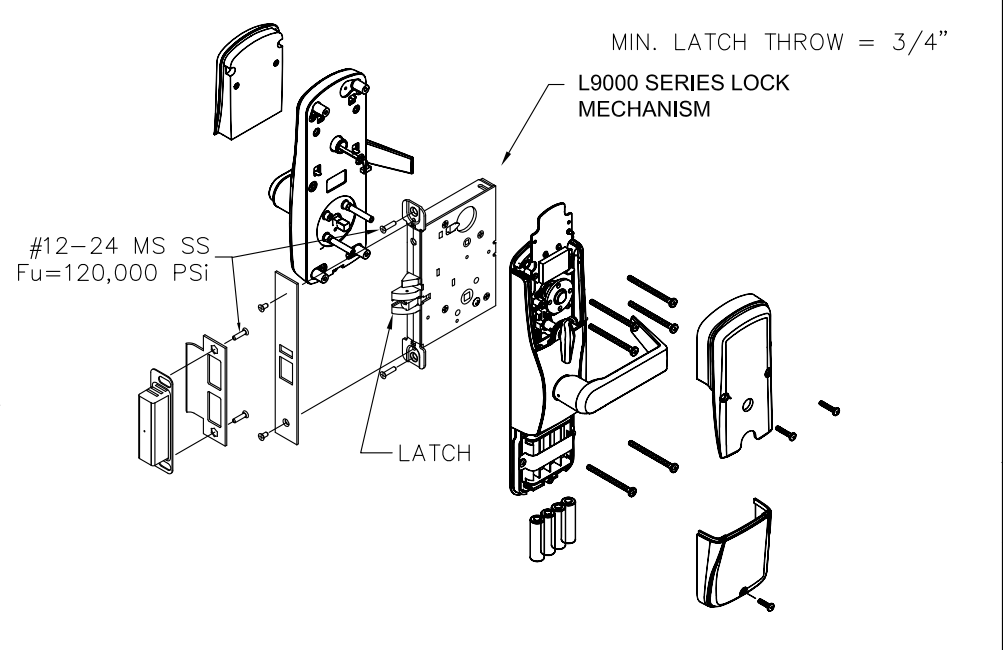
FALCON MA-SERIES MORTISE LOCKSET W/ DEADBOLT  
USED IN CONFIGURATION: 1

FALCON MA-SERIES MORTISE LOCKSET W/O DEADBOLT  
USED IN CONFIGURATION: 1A

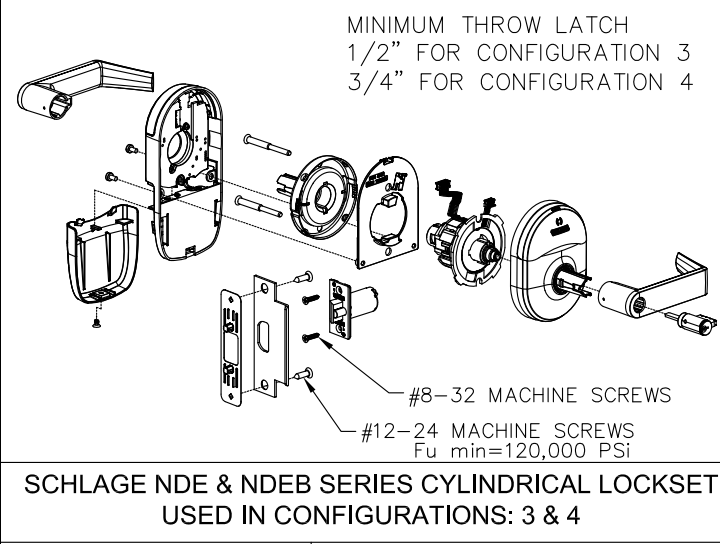
SCHLAGE LE-MS, LEB-MS, LE-MB, LEB-MB  
SERIES MORTISE LOCKSET  
W/O DEADBOLT. USED IN CONFIGURATION: 1A



MIN. THROW:  
LATCH = 3/4"



MIN. LATCH THROW = 3/4"

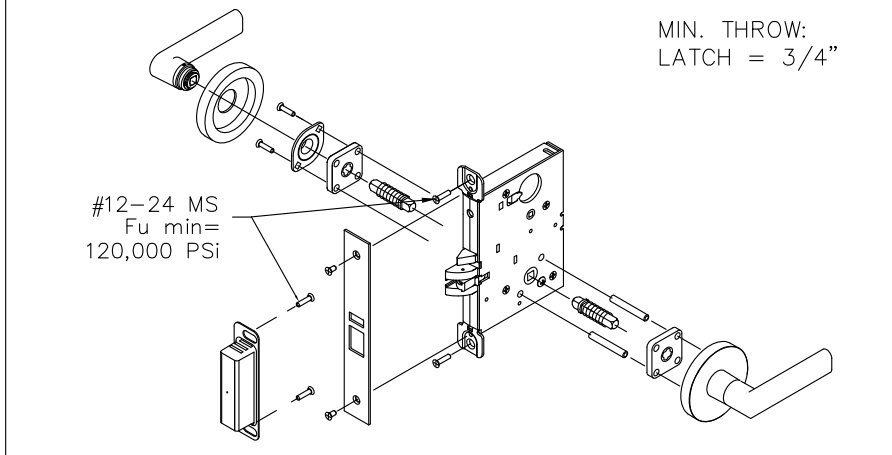
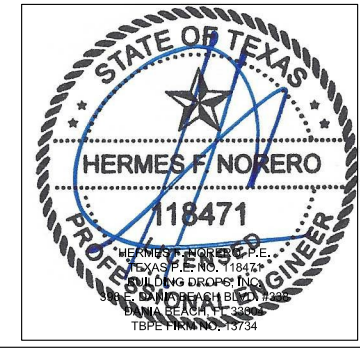


MINIMUM THROW LATCH  
1/2" FOR CONFIGURATION 3  
3/4" FOR CONFIGURATION 4

FALCON, T-SERIES CYLINDRICAL LEVER LOCKSET  
USED IN CONFIGURATION: 4

SCHLAGE AD-MS & CO-MS SERIES MORTISE LOCK WITHOUT DEADBOLT  
USED IN CONFIGURATION: 1A

SCHLAGE NDE & NDEB SERIES CYLINDRICAL LOCKSET  
USED IN CONFIGURATIONS: 3 & 4



MIN. THROW:  
LATCH = 3/4"

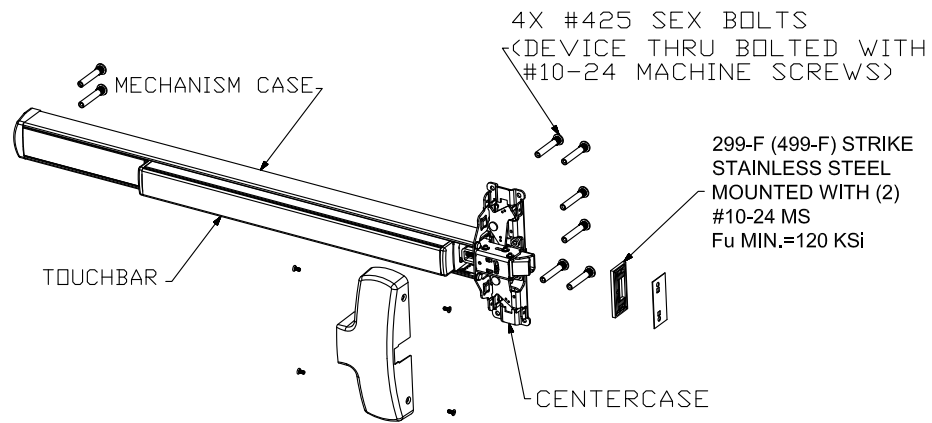
NOTES:  
1. INSTALLATION AND FIRE RATINGS ARE NOT PART OF THIS APPROVAL  
AND TO BE REVIEWED AND APPROVED BY BUILDING OFFICIAL.  
2. ELECTRIFIED FUNCTIONS APPROVED , BUT NOT SHOWN ABOVE.

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN YMF	DATE 05/20/07
CHECKED	
APPROVED	
ENG. APPVL JPD	10/12/07

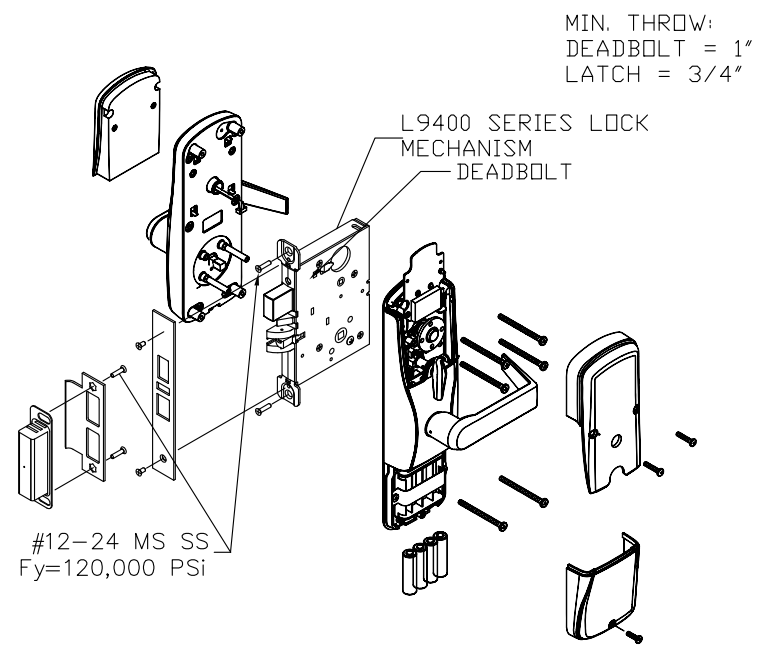
SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
TITLE: STEELCRAFT H SERIES DOUBLE FLUSH COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES			
HARDWARE FOR FLUSH DOUBLE DOORS.			
SIZE	FLAT	DWG NO.	REV
		IRFD07-T	B 1-8-20
SCALE:	NTS	AUTOCAD	SHEET 11 OF 17

SCHLAGE L/LV 9000 SERIES MORTISE LOCK WITHOUT DEADBOLT  
USED IN CONFIGURATION: 1A

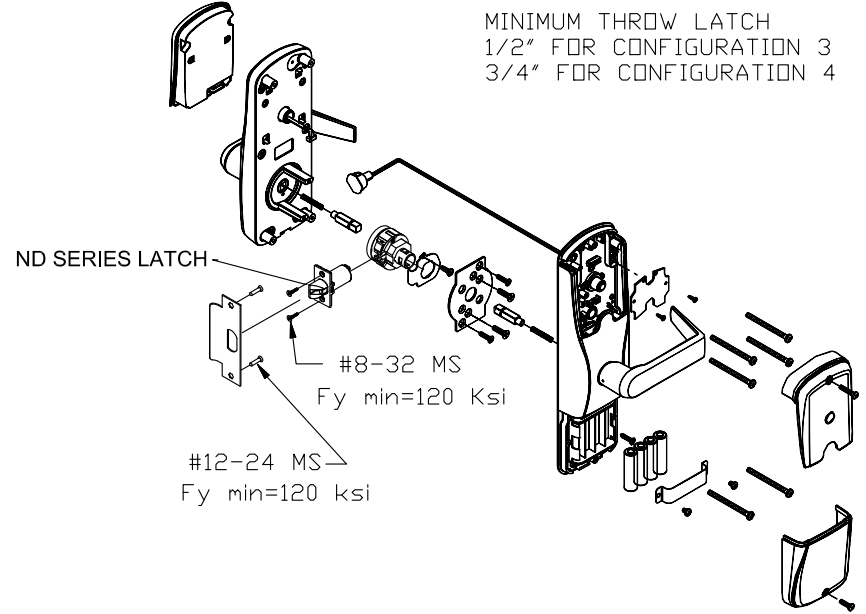




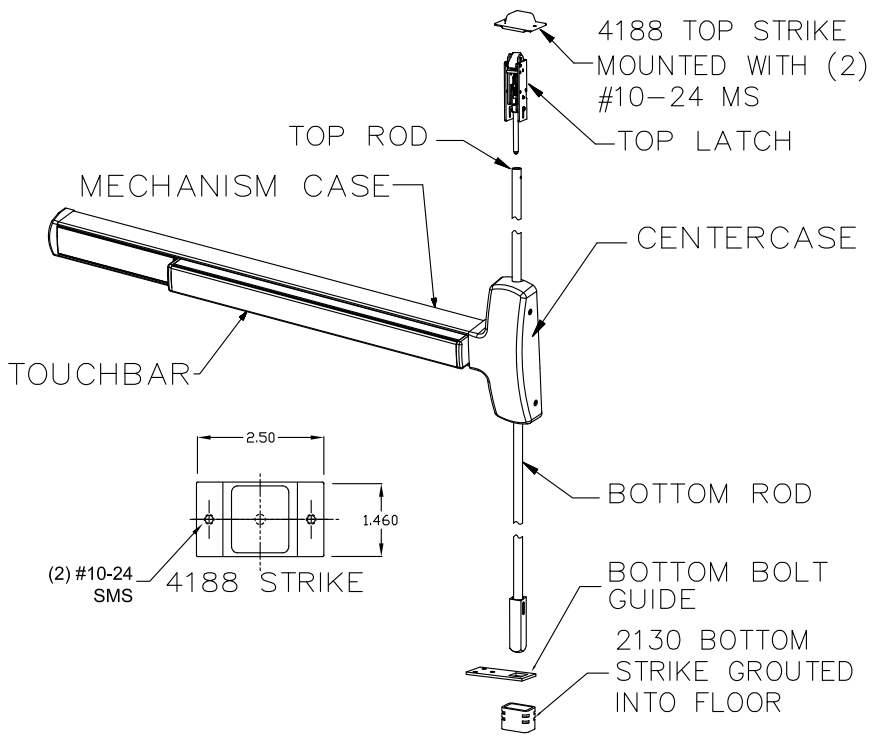
FALCON (F)25-R RIM EXIT DEVICE  
USED IN DOOR CONFIGURATION 11 (SEE SHT.1)



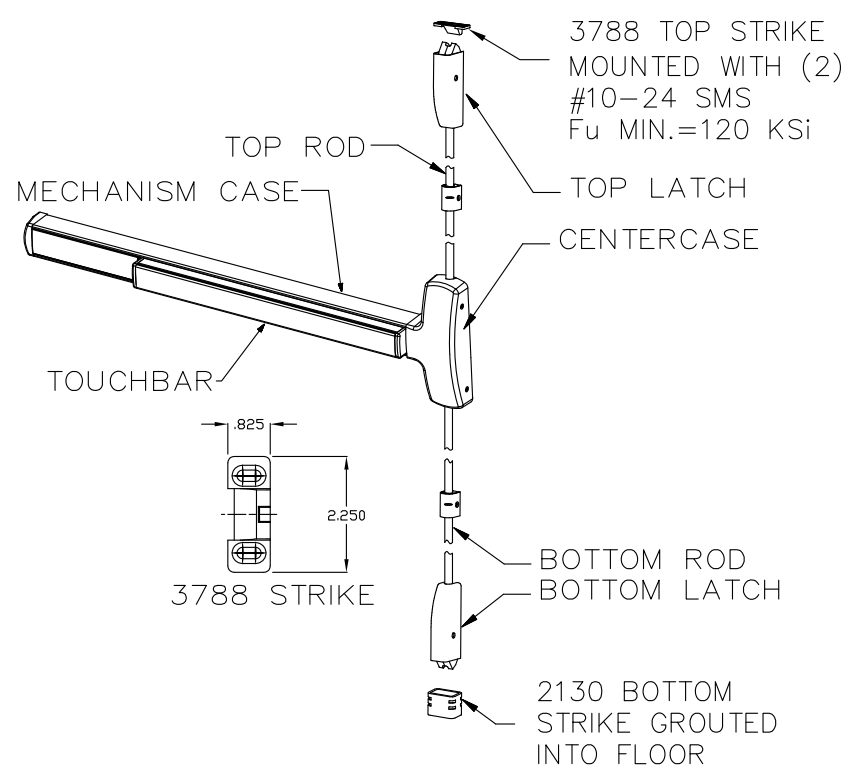
SCHLAGE AD-MD & CO-MD SERIES MORTISE LOCKSET WITH DEADBOLT  
USED IN CONFIGURATIONS: 1 (SEE SHT.1)



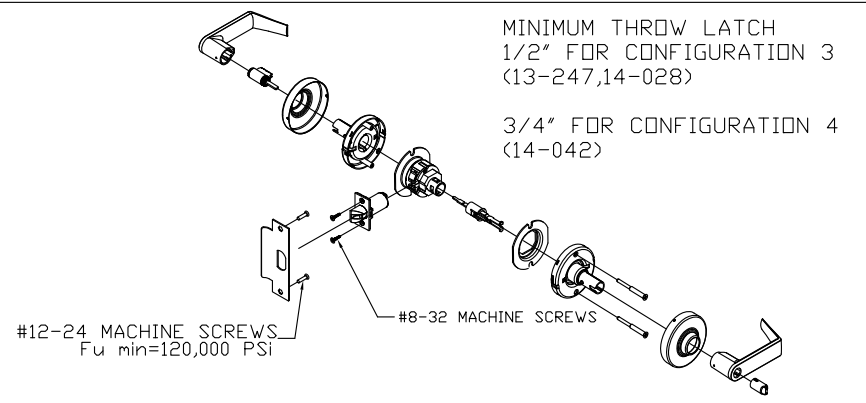
SCHLAGE AD-CY & CO-CY SERIES CYLINDRICAL LOCKSET  
USED IN CONFIGURATIONS: 3&4 (SEE SHT.1)



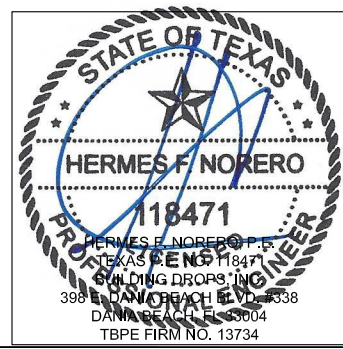
FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE  
USED IN DOOR CONFIGURATION 8 (SEE SHT.1)



FALCON (F)25-V SURFACE VERTICAL ROD EXIT DEVICE  
USED IN DOOR CONFIGURATION 7 (SEE SHT.1)



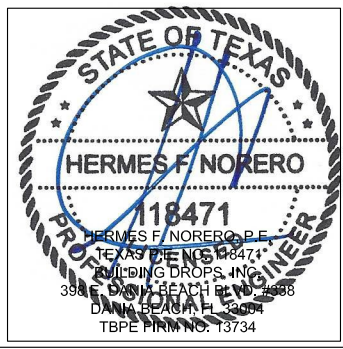
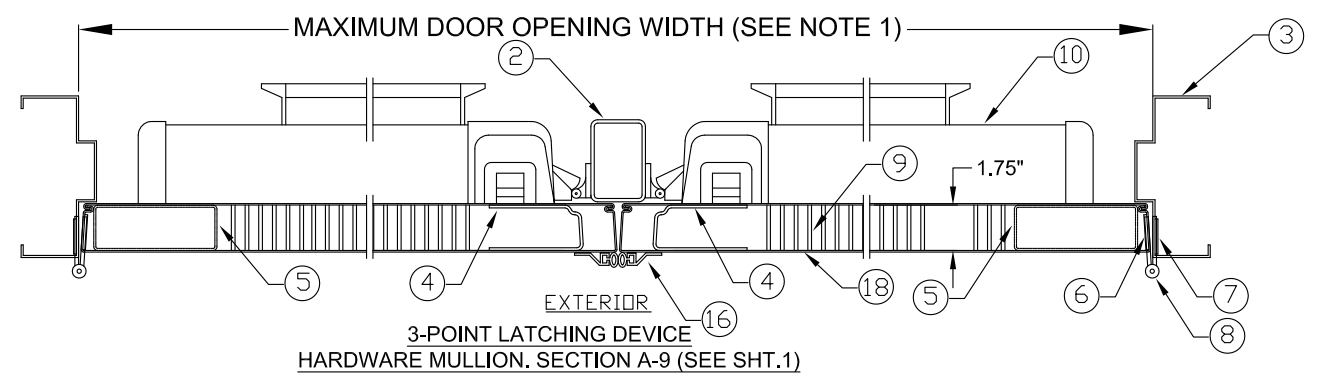
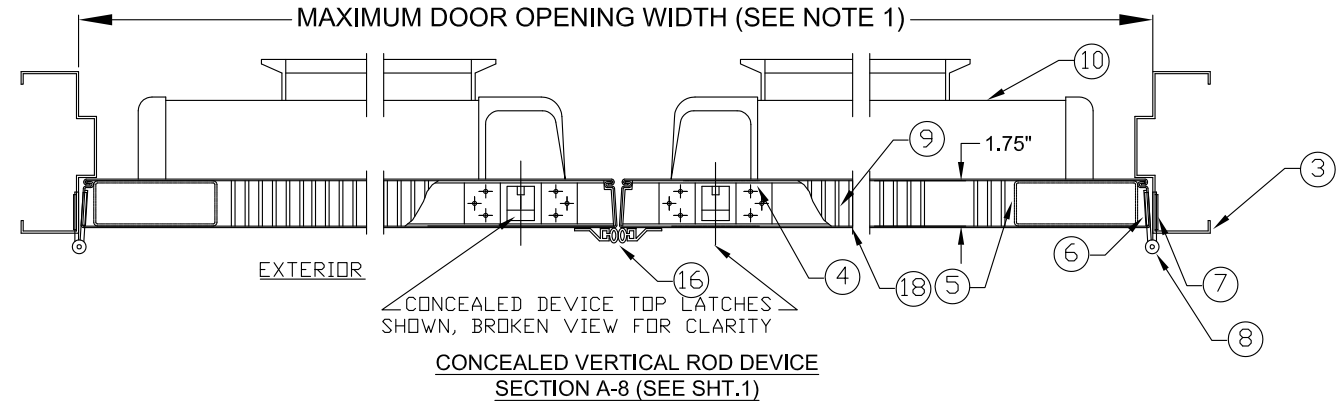
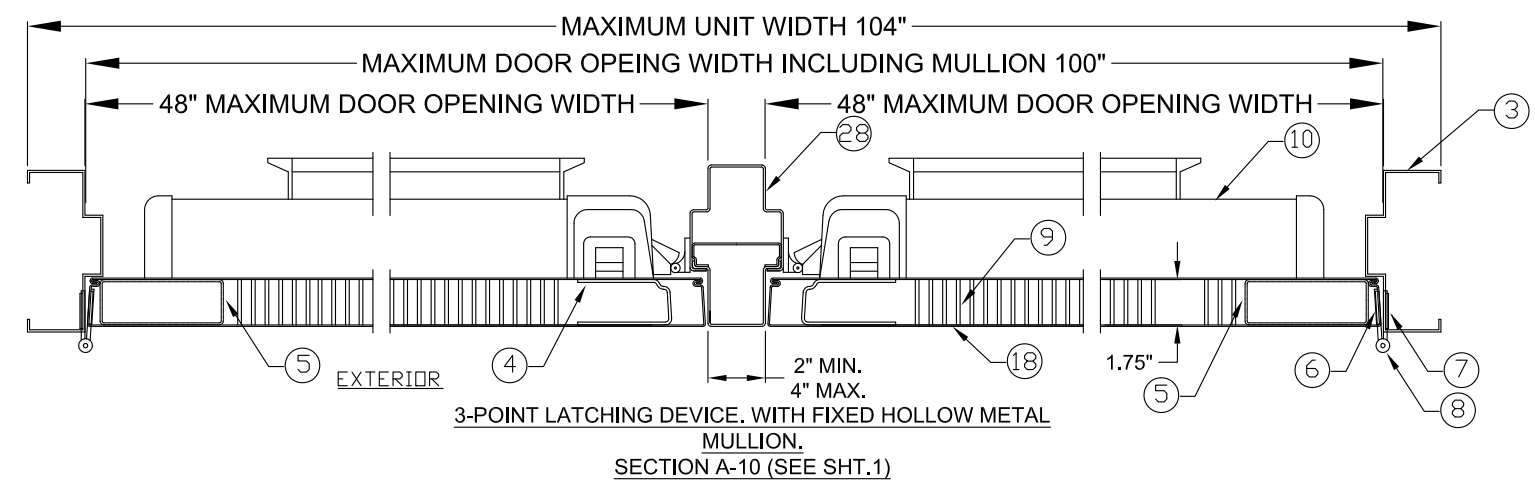
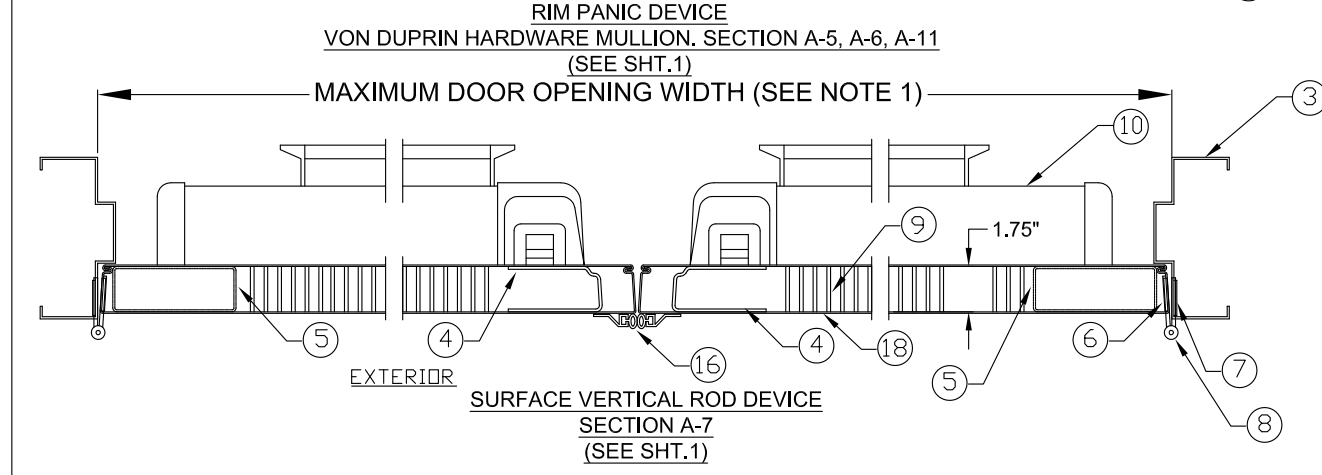
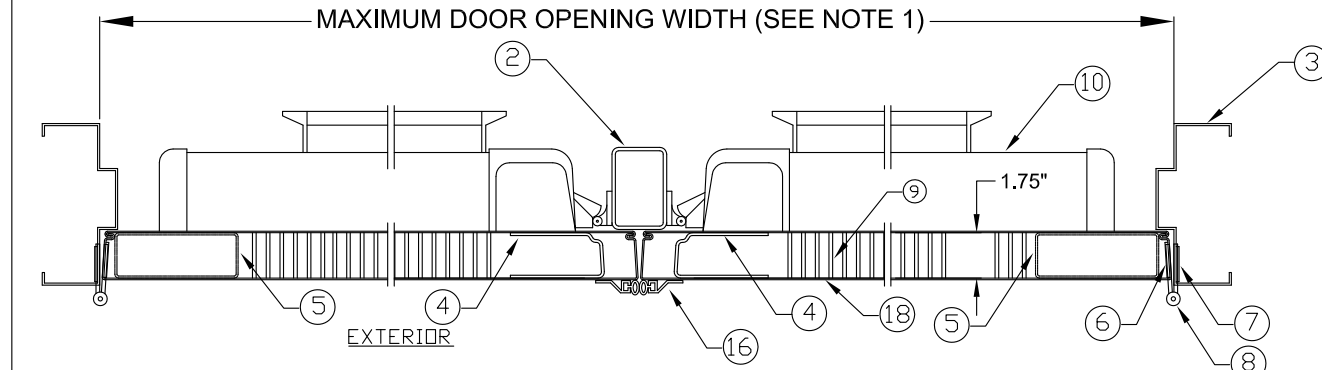
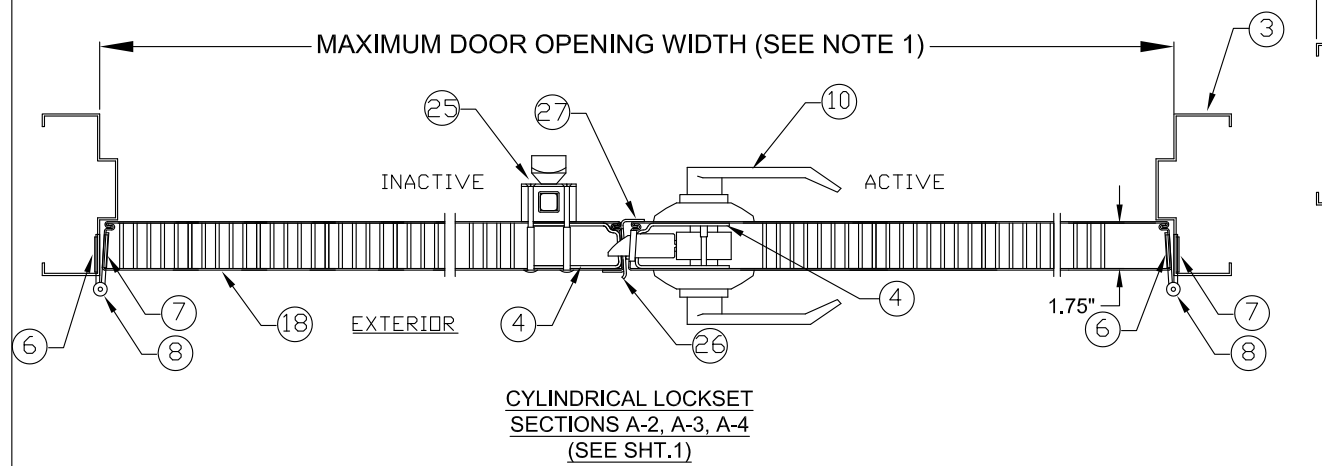
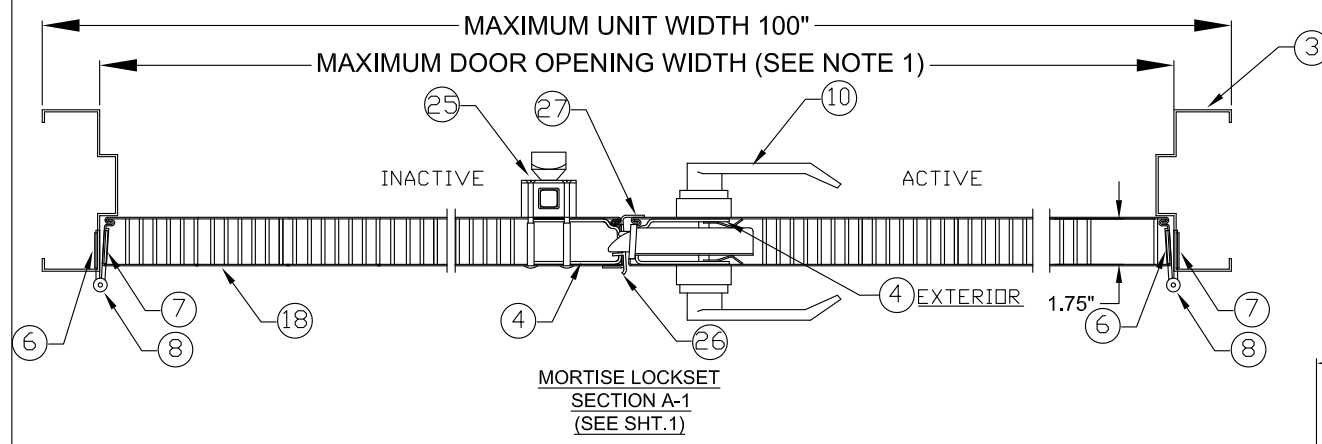
SCHLAGE ALX SERIES CYLINDRICAL LOCKSET.  
USED IN CONFIGURATIONS: 3 & 4



NOTES:  
FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND TO BE REVIEWED AND APPROVED BY BUILDING OFFICIAL.

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

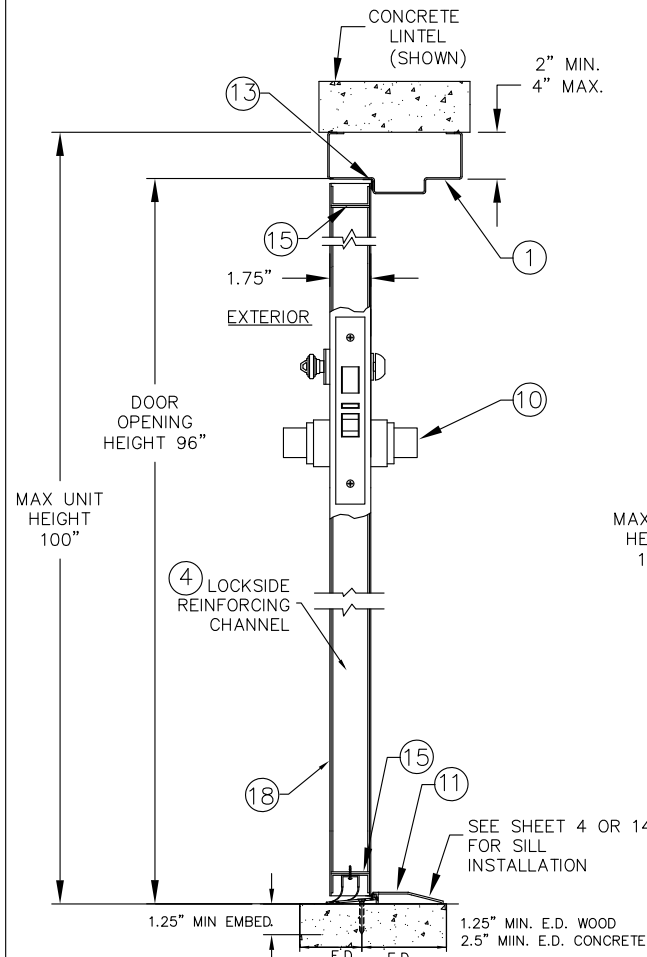
BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN YMF	DATE 05/20/07	HARDWARE FOR FLUSH DOUBLE DOORS.	
CHECKED	CDATE	SIZE FLAT	DWG NO. IRFD07-T
APPROVED	ADATE	SCALE: NTS	REV B 1-8-20
ENG. APPVL JPD	EDATE 10/12/07	AUTOCAD	SHEET 12 OF 17



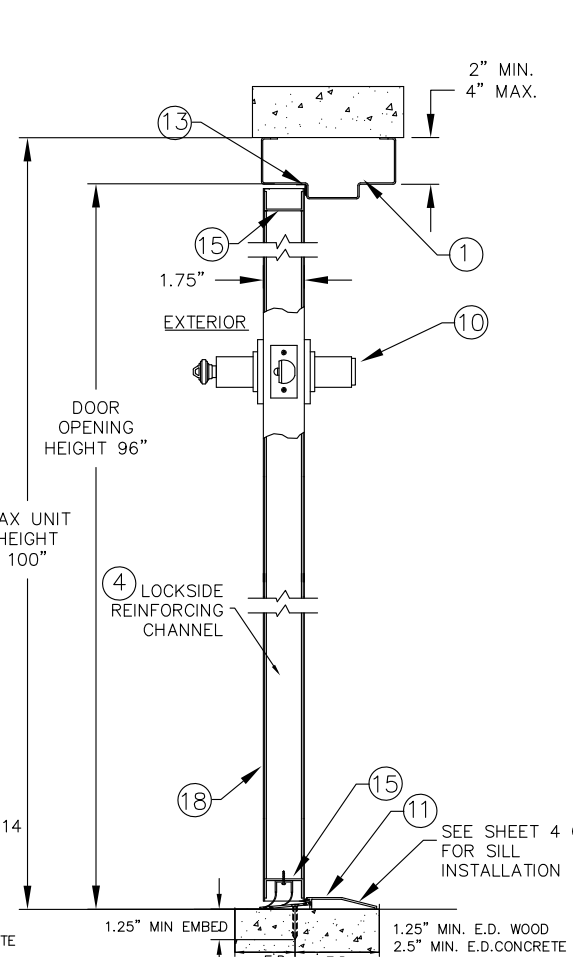
NOTES:

1. FOR MAXIMUM OPENING SIZE SEE TABLE 1 ON SHEET 2.
2. SEE SHEET 4 & 17 FOR ANCHOR INSTALLATION AND SHEETS 3, 4, 5, 6 & 17 FOR SILL INSTALLATION DETAILS.

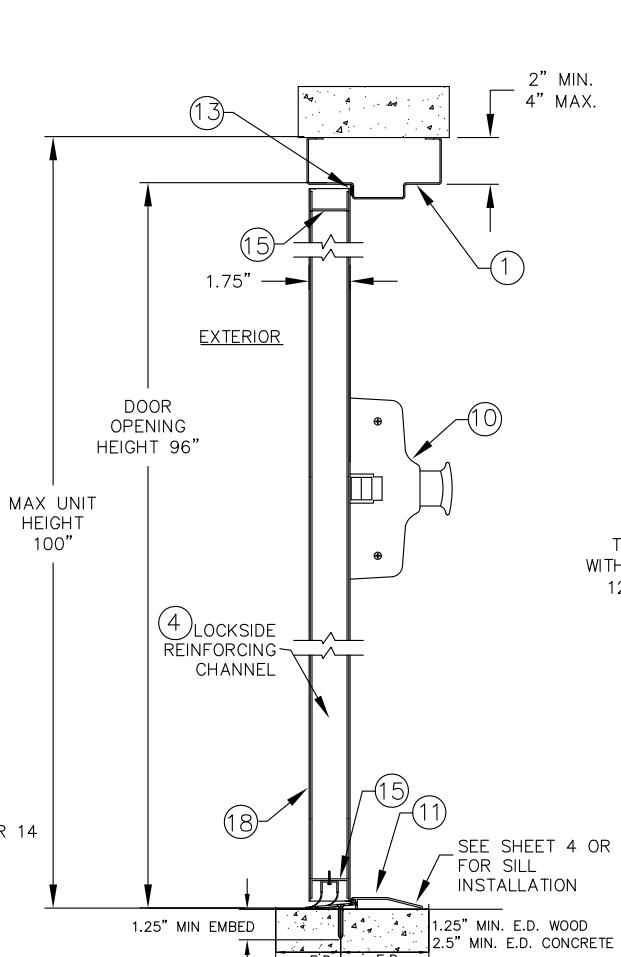
BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES			
DRAWN YMF	DATE 05/20/07	HORIZONTAL CROSS SECTIONS FOR FLUSH DOUBLE DOORS.			
CHECKED		SIZE FLAT	DWG NO. IRFD07-T	REV B 1-8-20	
APPROVED		SCALE: NTS	AUTOCAD		SHEET 13 OF 17
ENG. APPVL					



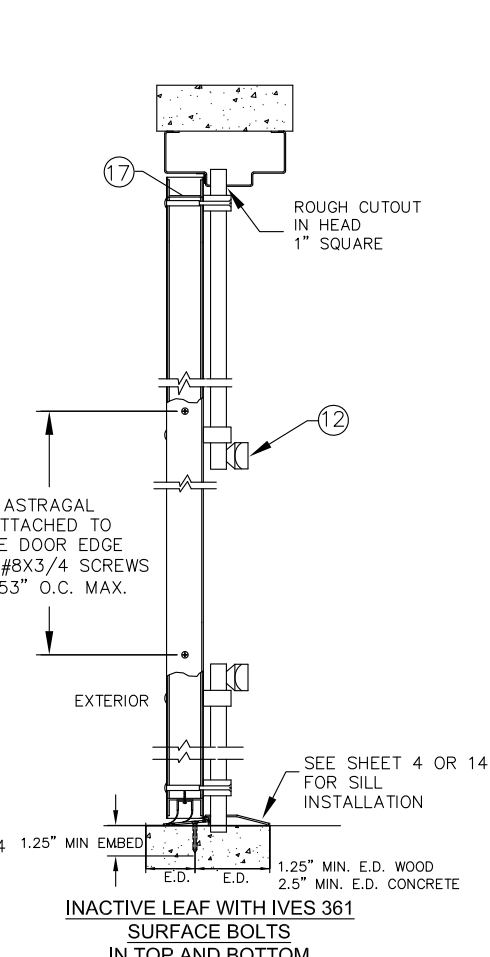
**MORTISE LOCK SECTION B-1 (SEE SHT.1)**



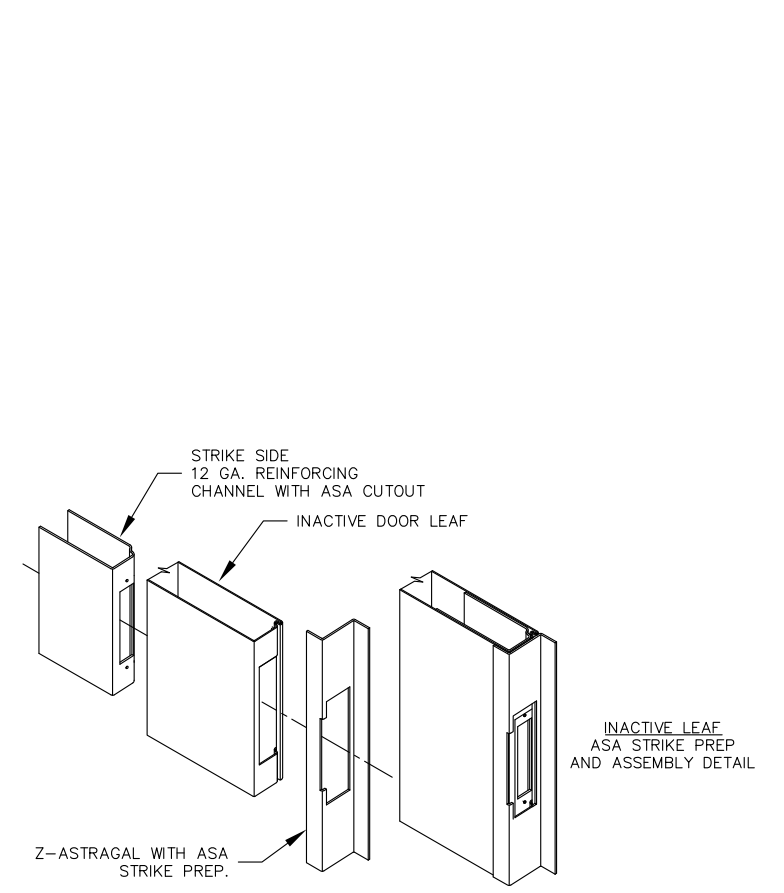
**CYLINDRICAL LOCK SECTIONS B-2, B-3, B-4 (SEE SHT.1)**



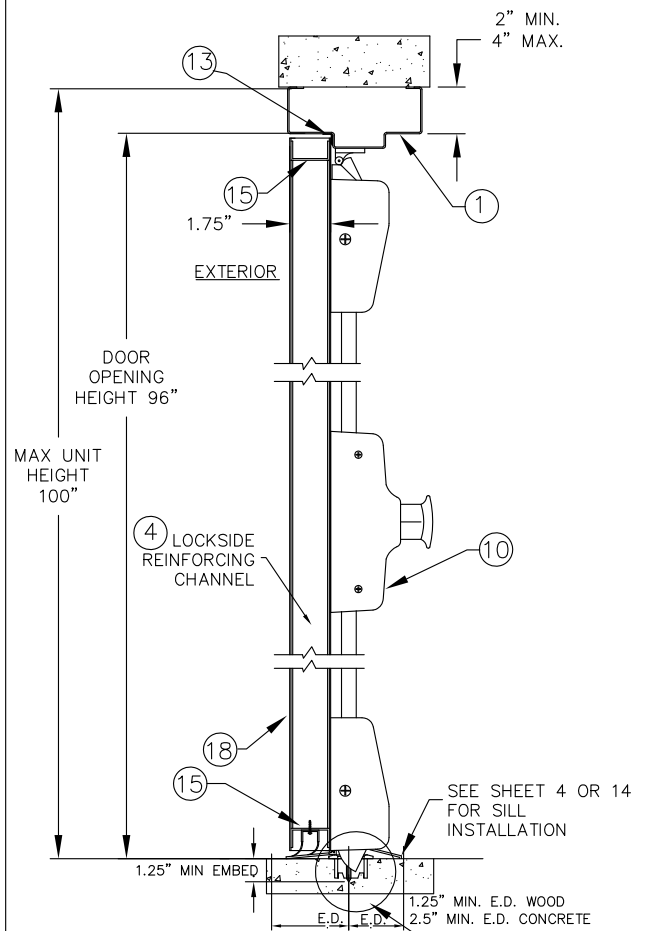
**RIM EXIT DEVICE SECTIONS B-5, B-6, B-11 (SEE SHT.1)**



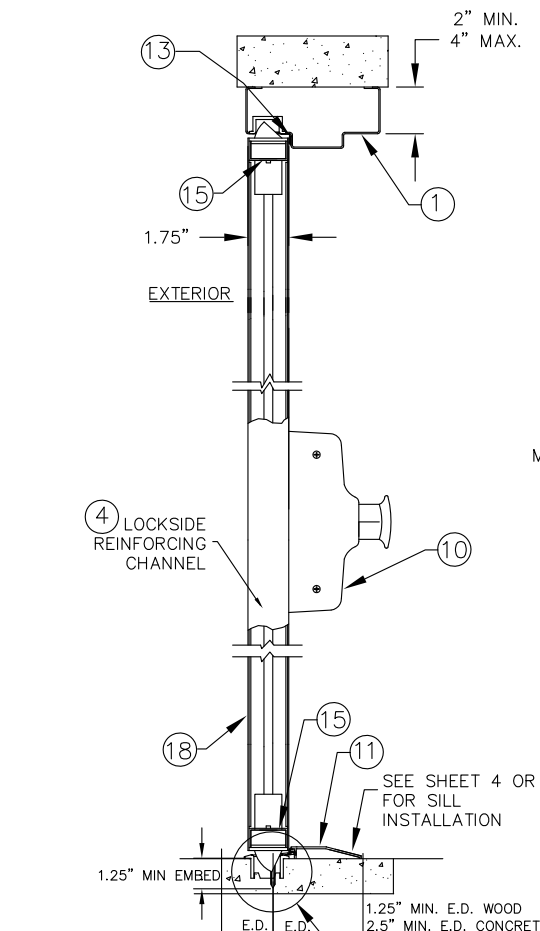
**INACTIVE LEAF WITH IVES 361 SURFACE BOLTS IN TOP AND BOTTOM SECTIONS C-1, C-2, C-3, C-4 (SEE SHT. 1)**



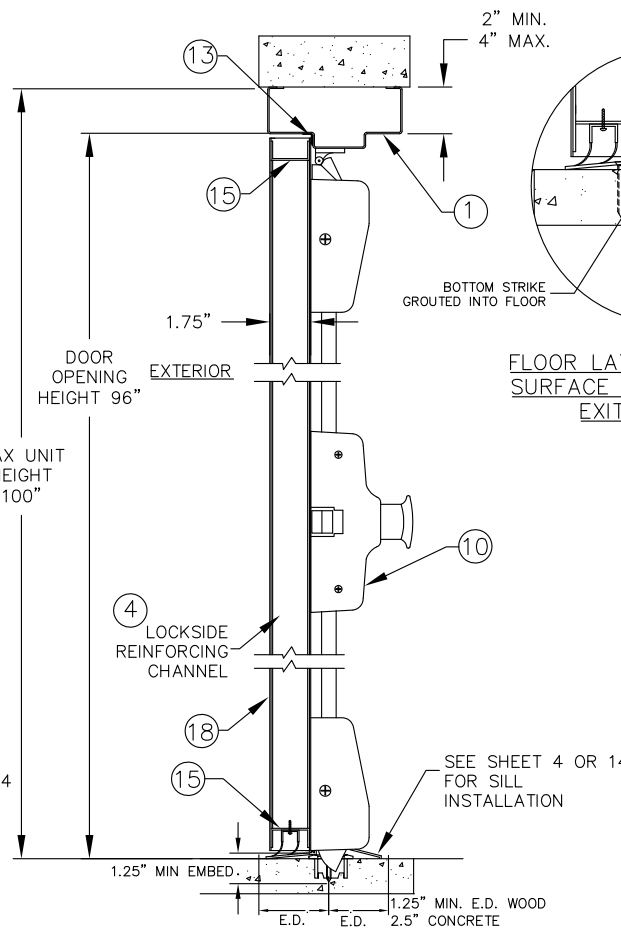
**INACTIVE LEAF ASA STRIKE PREP AND ASSEMBLY DETAIL**



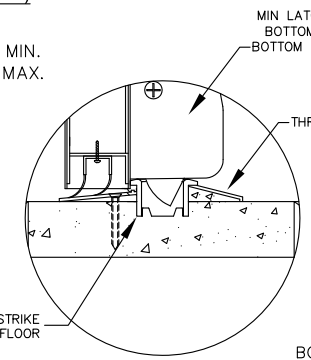
**SURFACE VERTICAL ROD EXIT DEVICE SECTION B-7 (SEE SHT.1)**



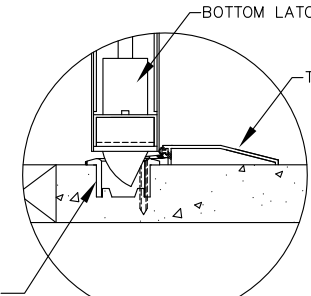
**CONCEALED VERTICAL ROD EXIT DEVICE SECTION B-8 (SEE SHT.1)**



**THREE-POINT LATCHING EXIT DEVICE SECTIONS B-9, B-10 (SEE SHT.1)**

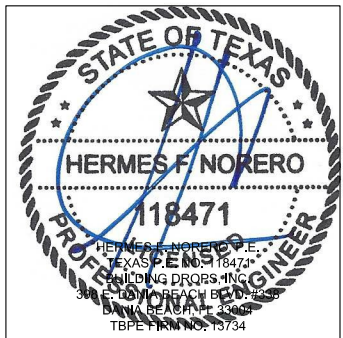


**FLOOR LATCHING DETAIL SURFACE VERTICAL ROD EXIT DEVICE**



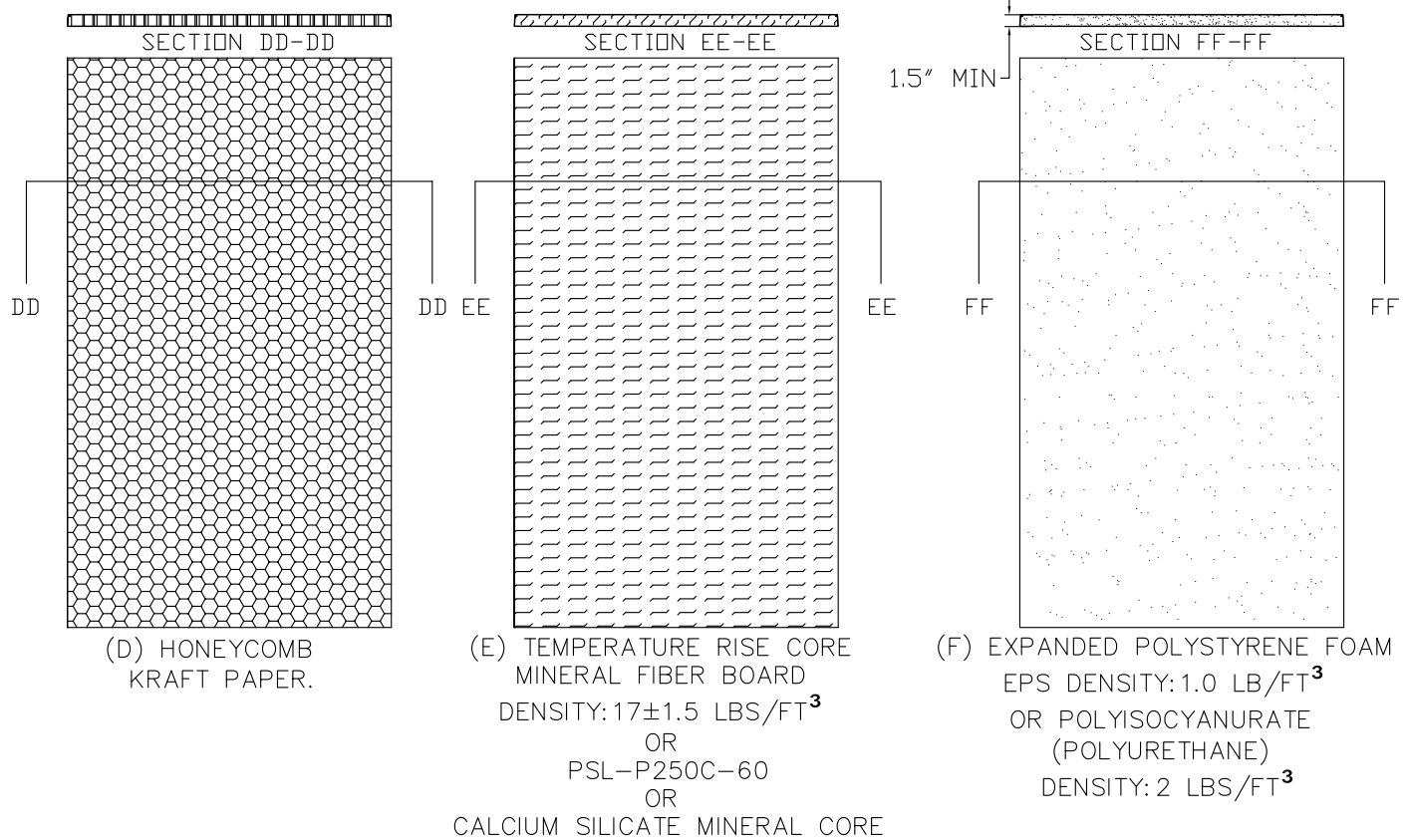
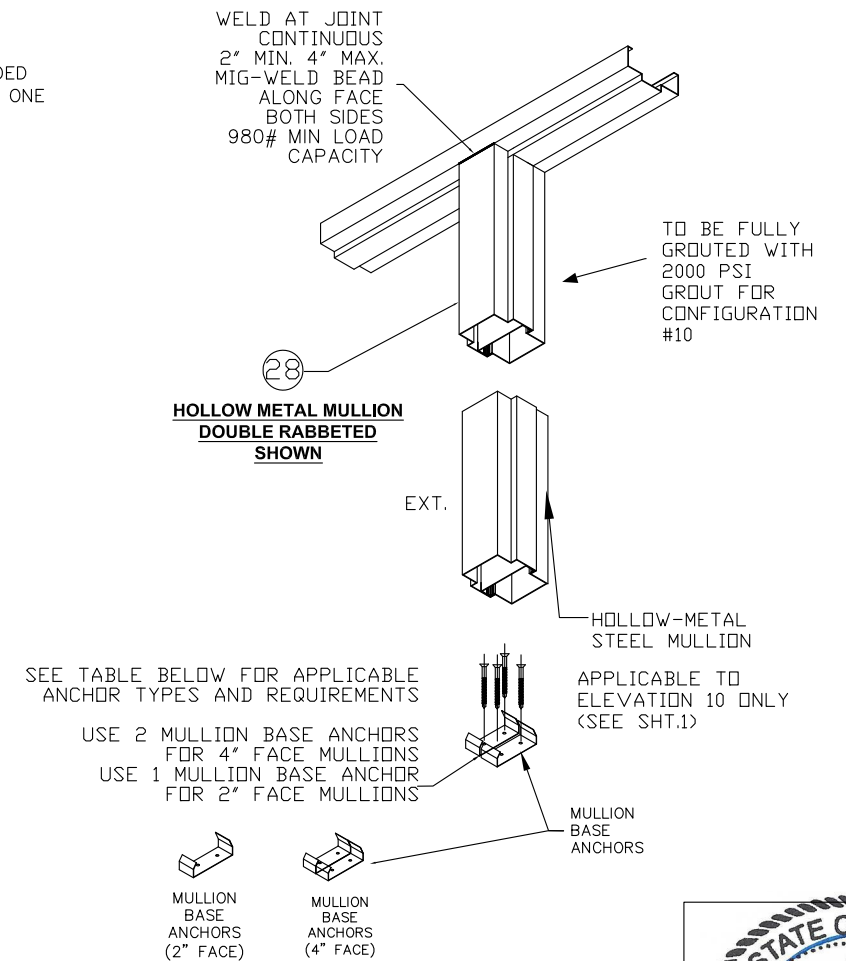
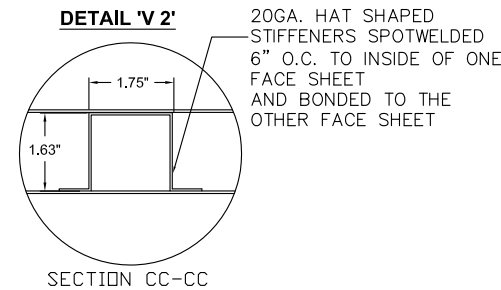
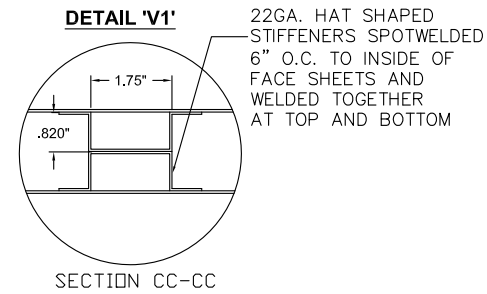
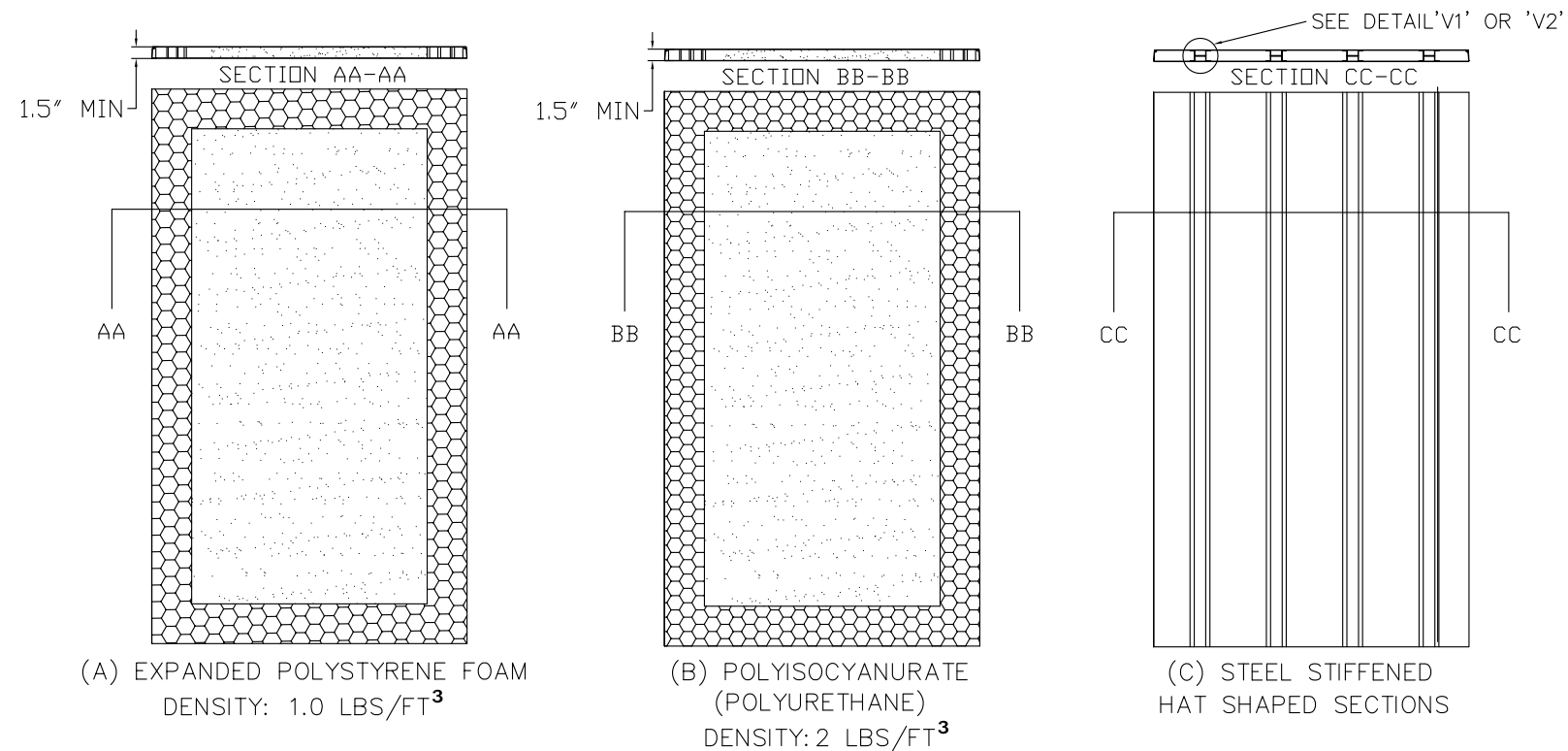
**FLOOR LATCHING DETAIL CONCEALED VERTICAL ROD EXIT DEVICE**

- NOTES:**
- FOR MAXIMUM DOOR AND UNIT OPENING SIZES SEE ELEVATION SHEET 1 AND TABLE 1 ON SHEET 2.
  - SEE SHEET 4 & 17 FOR ANCHOR INSTALLATION AND SHEETS 3, 4, 5, 6 & 17 FOR SILL INSTALLATION DETAILS

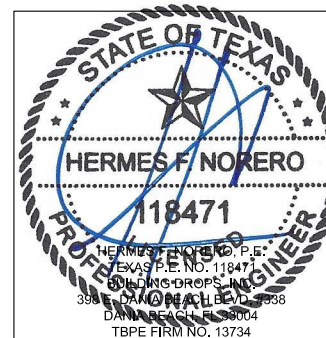


BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES			
DRAWN YMF	DATE 05/20/07	VERTICAL CROSS SECTIONS FOR FLUSH DOUBLE DOORS.			
CHECKED		SIZE	FLAT	DWG NO.	REV
APPROVED				IRFD07-T	B 1-8-20
ENG. APPVL JPD	10/12/07	SCALE:	NTS	AUTOCAD	SHEET 14 OF 17



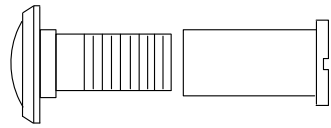


Anchor	Embedment	Edge Distance	Conc. Strength	Spacing	Quantity
Elco 5/16" Ultracon	2"	3.75"	3515 psi	3-3/8" Thru Base Anchor	2 per Base Anchor (2 for 2" Face 4 for 4" Face)
Powers 3/8" Power-Bolt	2"		3000 psi		
Powers 3/8" Lok Bolt AS	1-1/4"				
Hilti 3/8" Kwik Bolt 3	1-5/8"				
Dewalt 3/8" Screw-Bolt+	2"				



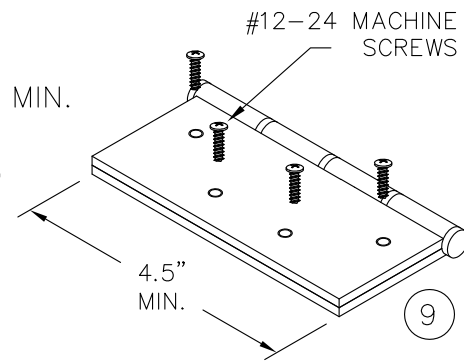
**NOTES:**  
1. CORE MATERIAL SHOWN WITHOUT CUTOUTS FOR REINFORCEMENTS

BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES			
DRAWN JPD	DATE 02/03/14	DOOR CORE OPTIONS AND HOLLOW METAL AND HARDWARE MULLION INSTALLATION			
CHECKED		SIZE	FLAT	DWG NO. IRFD07-T	REV B 1-8-20
APPROVED		SCALE:	NTS	AUTOCAD	SHEET 15 of 17
ENG. APPVL					

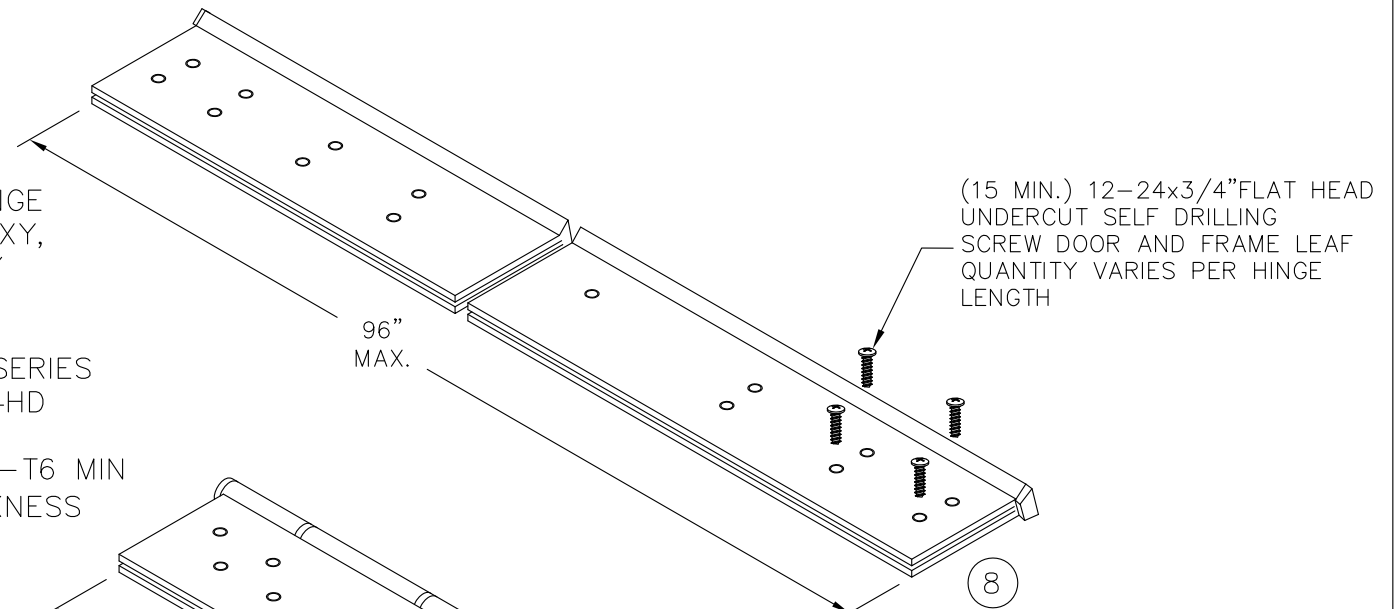


29 IVES 698/U698 DOOR VIEWER  
APPLICATION LIMITED TO +/- 75  
PSF DESIGN PRESSURE OR LESS

BUTT HINGE  
4.5" X 4.5" STD. WT. MIN.  
IVES 5BB1/3CB1  
STANLEY FBB179/1900  
HAGER BB1279  
.134" MIN. THICKNESS  
Fy MIN. = 36ksi

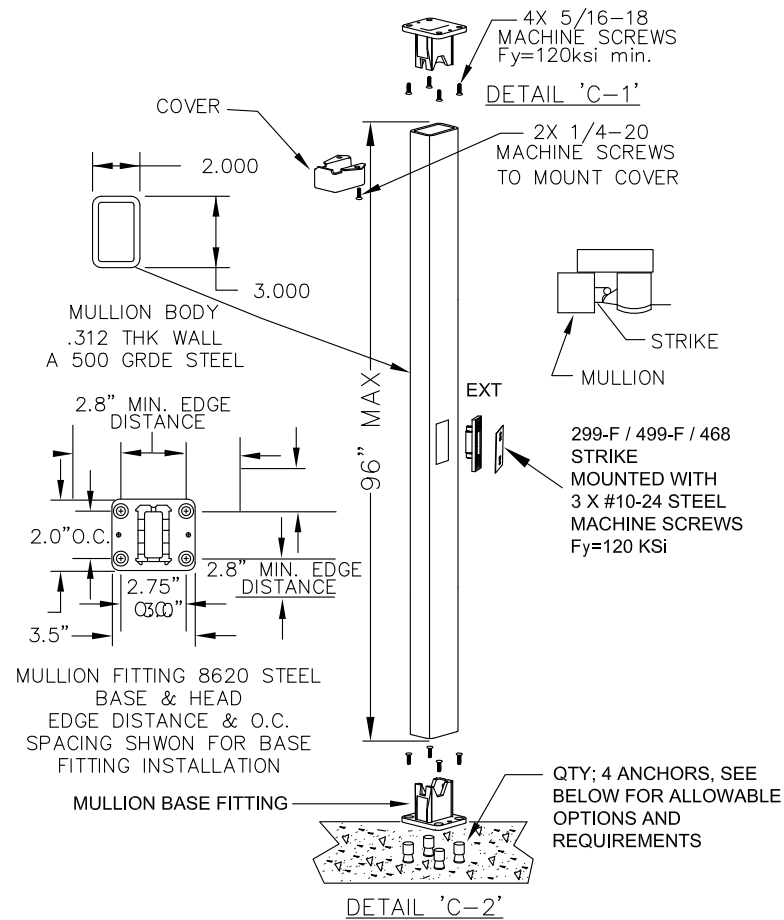


CONTINUOUS HINGE  
IVES 112HD, 112XY,  
224HD & 224XY  
STANLEY 661HD  
SELECT SL11HD  
PEMCO FM\_HD SERIES  
HAGER 780-224HD  
ABH A240HD  
ALUMINUM 6036-T6 MIN  
.110" MIN. THICKNESS



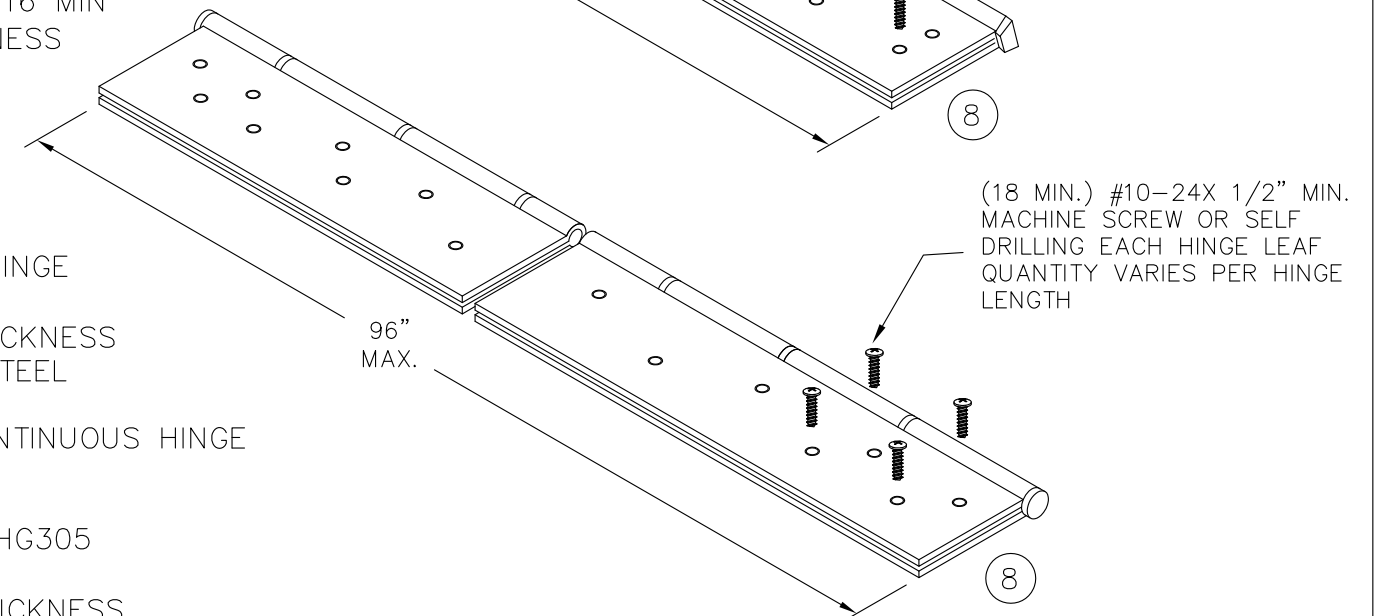
VON DUPRIN MULLION  
2

HH9954 MULLION

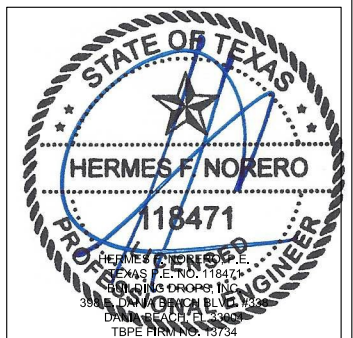


MULLION EXPANSION ANCHOR NOTES:  
ANCHORS SHALL BE INSTALLED IN 3000 PSI CONCRETE (SEE ABOVE FOR SPACING  
REQUIREMENTS), ALLOWABLE ANCHOR TYPES ARE:  
1/4" POWERS SMART DI+ EXPANSION ANCHORS WITH MIN 1" EMBEDMENT  
OR  
1/4" HILTI KWIK BOLT 3 EXPANSION BOLTS WITH MIN 1-1/8" EMBEDMENT

STEEL CONTINUOUS HINGE  
IVES 600  
.075 (14GA.) MIN. THCKNESS  
1012 COLD ROLLED STEEL  
Fy MIN. 45ksi  
STAINLESS STEEL CONTINUOUS HINGE  
IVES 700, 700CS  
HAGER 790-900  
MARKAR FM-300 & HG305  
ABH A500  
.075 (14GA.) MIN. THICKNESS  
304 STAINLESS STEEL  
Fy MIN. 31ksi

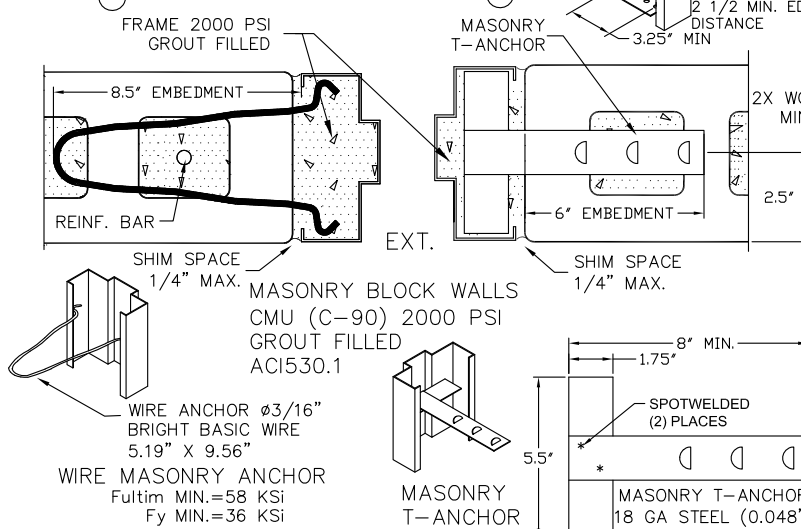
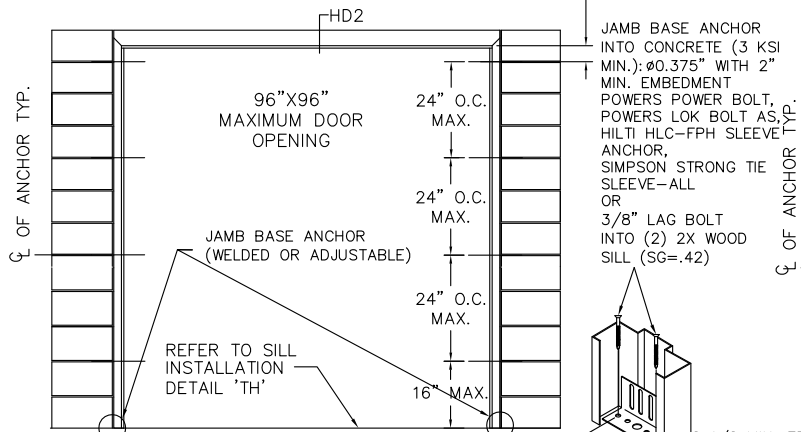


CONTINUOUS HINGE NOTES:  
1. QUANTITY OF SCREWS VARIES PER HINGE  
LENGTH, MANUFACTURER AND MODEL NUMBER  
2. SCREW SPACING VARIES PER HINGE LENGTH,  
MANUFACTURER AND MODEL NUMBER  
3. INSTALL HINGES PER THE MANUFACTURERS  
INSTALLATION INSTRUCTIONS

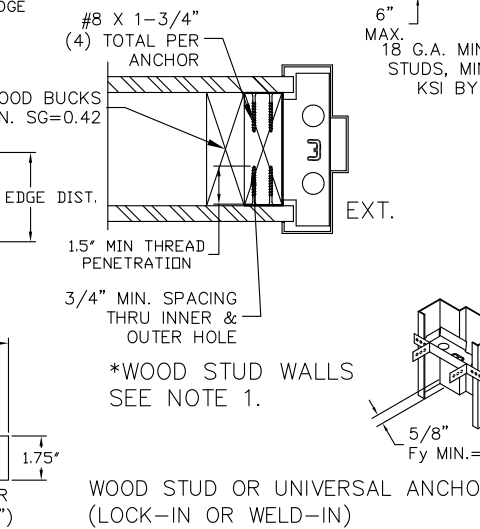
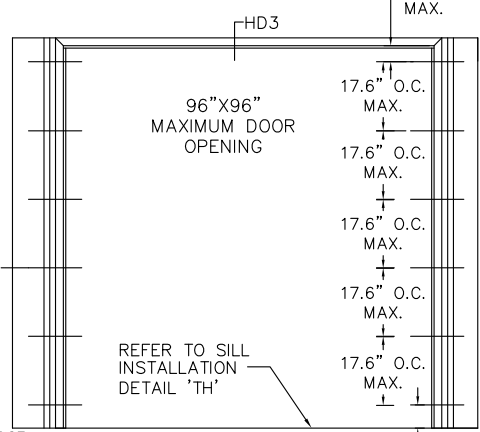


BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES			
DRAWN JPD	DATE 02/03/14	HINGE OPTIONS			
CHECKED		SIZE	FLAT	DWG NO.	REV
APPROVED				IRFD07-T	B 1-8-20
ENG. APPVL		SCALE:	NTS	AUTOCAD	SHT 16 OF 17

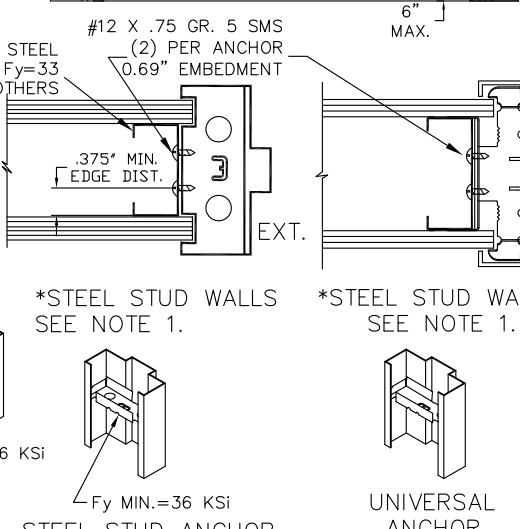
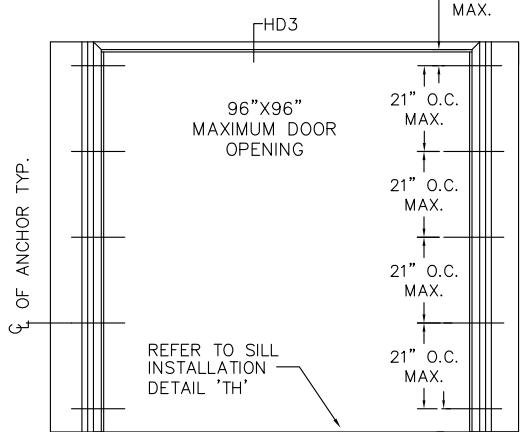
**A2** WIRE OR T MASONRY ANCHOR INTO GROUT FILLED FRAME AND BLOCK WALL UP TO 90 PSF



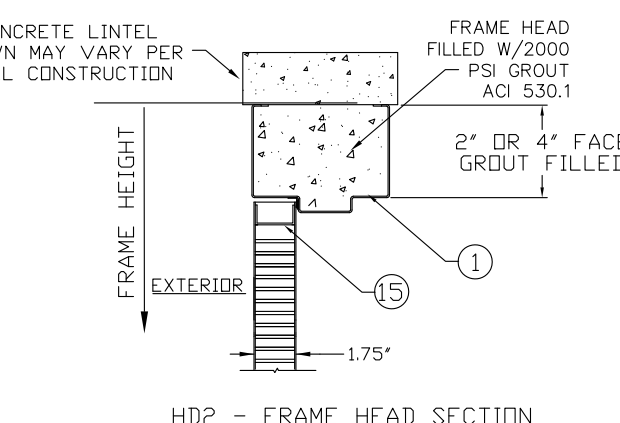
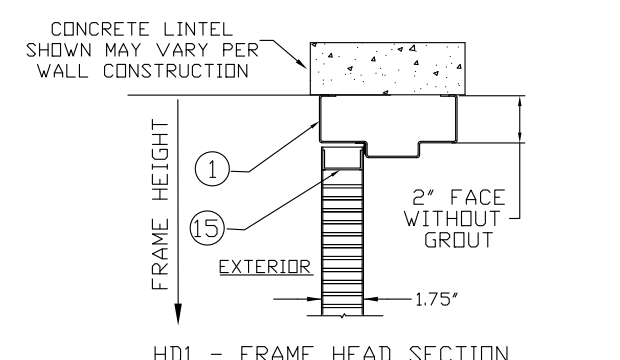
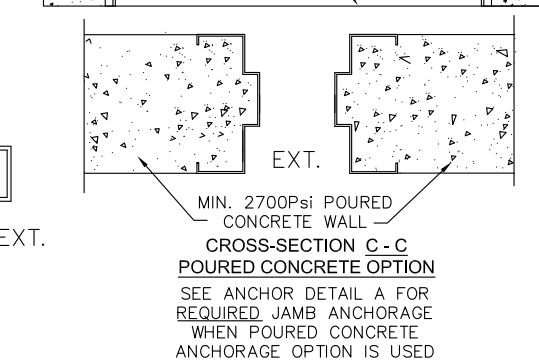
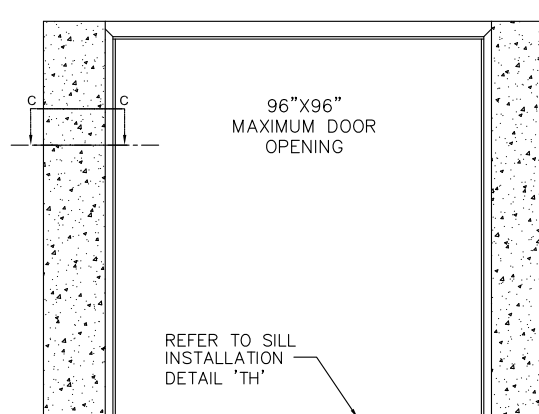
**B2** WOOD STUD ANCHOR UP TO 90 PSF



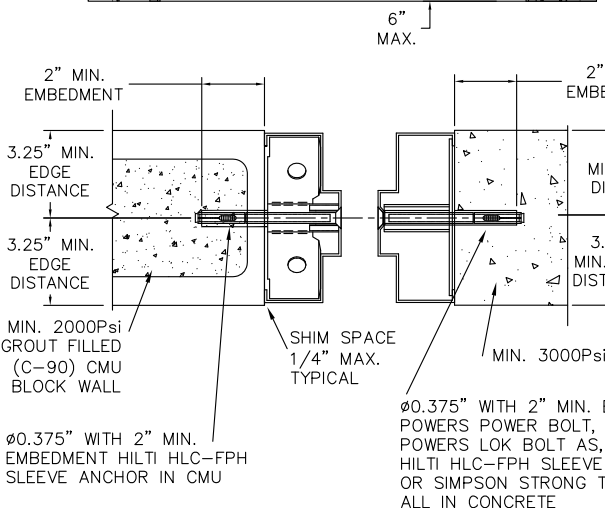
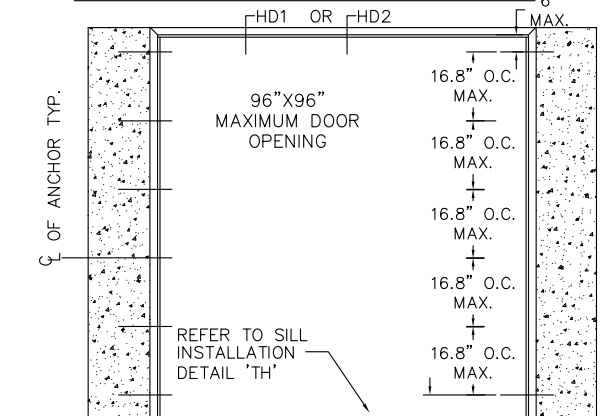
**C2** STEEL STUD ANCHOR UP TO 90 PSF



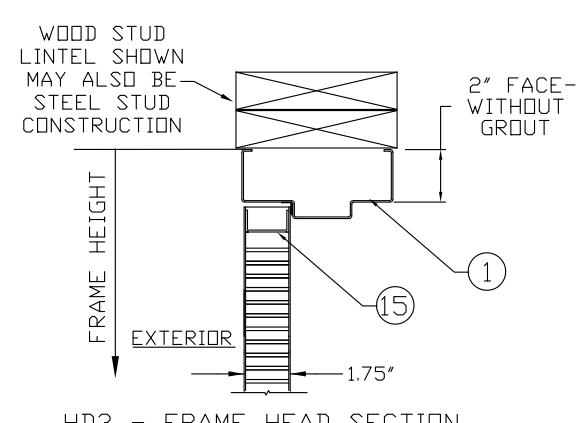
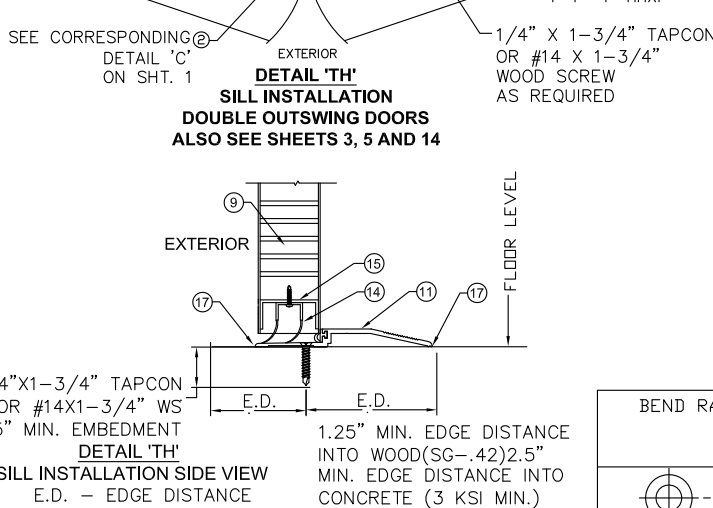
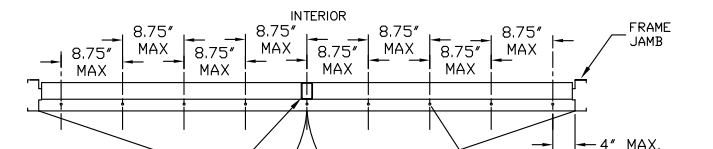
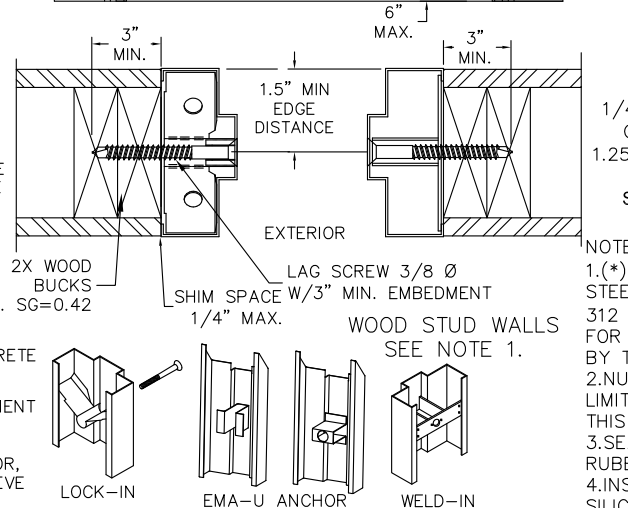
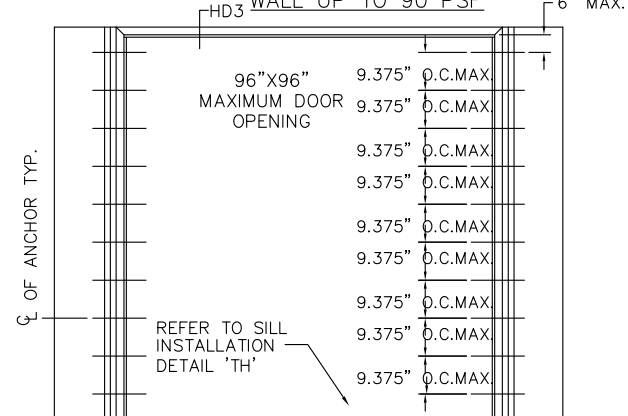
**F2** POURED CONCRETE TILT UP WALL UP TO 90 PSF



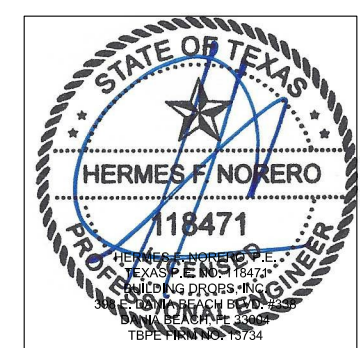
**D2** EXISTING MASONRY ANCHOR (EMA) INTO CONCRETE WALL OR CMU UP TO 90 PSF



**E2** EXISTING MASONRY ANCHOR (EMA) WITH LAG BOLT INTO WOOD STUD WALL UP TO 90 PSF



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



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THIRD ANGLE PROJECTION		TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN	DATE	ANCHOR DETAILS / INSTALLATION CONDITIONS FOR ASSEMBLIES WITH A DESIGN PRESSURE RATING GREATER THAN 75 PSF UP TO AND INCLUDING 90 PSF	
YMF	05/20/07	SIZE	FLAT
CHECKED		DWG NO.	IRFD07-T
APPROVED		REV	B 1-8-20
ENG. APPVL	10/12/07	SCALE:	NTS AUTOCAD
JPD			SHEET 17 OF 17