

FIRE PROTECTION DESIGN NOTES

1 - SPRINKLER SYSTEM INSTALLATION TO BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS, CODES AND APPROVALS:

NFPA 13 (2013) X NFPA 855 (2020) X NFPA 13D (2016) NFPA 14(2013)

NFPA 20 (2016) NFPA 30 (2012) NFPA 33 (2016) FM GLOBAL

MASSACHUSETTS BUILDING CODE 2015 CHAPTER 9, MASSACHUSETTS FIRE CODE 2015 CHAPTER 9.

2 - ALL SPRINKLER SYSTEM COMPONENTS TO BE ULC LISTED.

3 - ALL 1" PIPE TO BE SCHEDULE 40 BLACK STEEL c/w CAST IRON FITTINGS.

4 - ALL 1-1/4" AND LARGER PIPE TO BE SCHEDULE 10 BLACK STEEL c/w GROOVED FITTINGS.

5 - ALL PIPE, FITTINGS AND DEVICES TO HAVE A MINIMUM 175 PSI WORKING PRESSURE RATING.

ALL SPRINKLER TO HAVE A MAXIMUM 175 PSI AND MINIMUM OF 7 PSI WORKING PRESSURE.

6 - ALL HANGER ASSEMBLIES TO BE IN ACCORDANCE WITH NFPA 13.

7 - ALL SPRINKLER SYSTEM CONTROL VALVES TO BE PROVIDED WITH TAMPER-PROOF SWITCHES.

8 - A MINIMUM OF 6 SPARE SPRINKLERS (INCLUDING WRENCHES) TO BE LEFT ON PREMISES, LOCATED WHERE AMBIENT TEMPERATURE DOES NOT EXCEED 38C (100F).

9 - NEW WATER SUPPLY IS UNKNOWN AS UNITS WILL BE REMOTE INSTALLED AT A LATER DATE. WATER SUPPLIES TO BE VERIFIED PRIOR TO CONNECTION TO SUPPLY.

10 - SPRINKLER GUARDS TO BE INSTALLED WHERE SPRINKLERS ARE SUBJECT TO MECHANICAL DAMAGE.

11 - ADEQUATE HEAT TO BE MAINTAINED BY OWNER AT ALL TIMES FOR AREAS CONTAINING WATER-FILLED SPRINKLER PIPE.

12 - PURCHASING, FABRICATION AND INSTALLATION OF FIRE PROTECTION SYSTEM COMPONENTS SHALL NOT PROCEED UNTIL ALL APPROVALS ARE OBTAINED.

13 - BY UTILIZING THESE FIRE SPRINKLER DRAWINGS FOR INSTALLATION, THE INSTALLATION CONTRACTOR ACKNOWLEDGES THAT THEY HAVE FULLY REVIEWED THESE PLANS TO ENSURE THEY COMPLY WITH THE CONTRACT SCOPE AND HAVE READ AND UNDERSTOOD ALL CONSULTANT DRAWINGS AND SPECIFICATIONS, INCLUDING RELEVANT SYSTEM COMPONENT DESIGN AND INSTALLATION CRITERIA.

14 - THE SPRINKLER CONTRACTOR SHALL CONTACT THE REGISTERED PROFESSIONAL TO PERFORM CONSTRUCTION REVIEWS AT ROUGH-IN STAGE (PRIOR TO THE COVERING OF THE SPRINKLER PIPE); AT THE TIME OF SPRINKLER SYSTEM VERIFICATION; AND FOR FINAL REVIEW PRIOR TO OCCUPANCY.

15 - THE SPRINKLER CONTRACTOR SHALL PROVIDE COPIES OF ALL SIGN-OFF DOCUMENTATION (INCLUDING FIRE ALARM VERIFICATION, CONTRACTOR'S MATERIAL AND TEST CERTIFICATES, HYDROSTATIC PRESSURE TEST CERTIFICATE, AS BUILT DRAWING MARK-UPS, AND ALL APPLICABLE MUNICIPAL DOCUMENTS TO THE REGISTERED PROFESSIONAL PRIOR TO BUILDING OCCUPANCY.

GENERAL NOTES

1 - SPRINKLER CONTRACTOR TO ALLOW FOR ALL NECESSARY OFFSETS, FITTINGS, RISES, DROPS AND AUXILIARY DRAINS REQUIRED FOR FULL COMPLIANCE WITH NFPA 13-2013, REGARDLESS OF WHETHER SHOWN ON THESE DRAWINGS OR NOT.

2 - SPRINKLER CONTRACTOR IS TO CAREFULLY EXAMINE THE JOBSITE PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO NY ENGINEERS IMMEDIATELY.

3 - BACKGROUND DRAWINGS ARE SHOWN FOR CO-ORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR THE EXACT LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADES WORK.

OWNERSHIP OF DOCUMENTS

1 - ALL DRAWINGS, SPECIFICATIONS AND OTHER WORK PRODUCTS SUPPLIED FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE FOR THIS PROJECT ONLY, AND REMAIN AT ALL TIMES THE EXCLUSIVE PROPERTY OF NY ENGINEERS WHETHER THIS PROJECT IS COMPLETED OR NOT. REUSE OF THESE DOCUMENTS BY EITHER THE CLIENT OR A THIRD PARTY SHALL BE AT THAT PARTY'S RISK, AND THAT PARTY SHALL AGREE TO DEFEND, INDEMNIFY AND HOLD HARMLESS NY ENGINEERS FROM ALL CLAIMS, DAMAGES AND EXPENSES (INCLUDING ATTORNEY'S FEES) ARISING OUT OF THE UNAUTHORIZED REUSE OF THESE INSTRUMENTS OF SERVICE BY ANY PARTY WITHOUT DIRECT, WRITTEN PERMISSION FROM NY ENGINEERS.

Sprinkler Schedule					
No. of Sprkls	Description	SIN (Hydratec)	K-Factor	Orifice Size	Temp
2	Victaulic 1/2 Ordinary Upright - B Standard Response	V2703	5.6	1/2"	200 °F
Total No. of Sprinklers: 2					

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A) MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (in.) (B)

LESS THAN 1'-0"	0
1'-0" TO LESS THAN 1'-6"	2.5
1'-6" TO LESS THAN 2'-0"	3.5
2'-0" TO LESS THAN 2'-6"	5.5
2'-6" TO LESS THAN 3'-0"	7.5
3'-0" TO LESS THAN 3'-6"	9.5
3'-6" TO LESS THAN 4'-0"	12
4'-0" TO LESS THAN 4'-6"	14
4'-6" TO LESS THAN 5'-0"	16.5
5'-0" TO LESS THAN 5'-6"	18
5'-6" TO LESS THAN 6'-0"	20
6'-0" TO LESS THAN 6'-6"	24
6'-6" TO LESS THAN 7'-0"	30
7'-0" TO LESS THAN 7'-6"	35

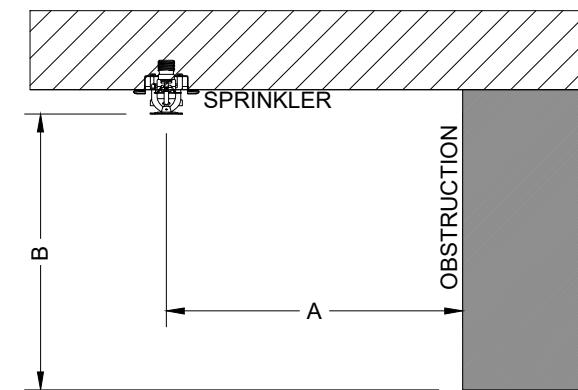


TABLE 8.6.5.1.2 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (SSU/SSP)

FIGURE 8.6.5.1.2(a) POSITION OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (SSU/SSP)

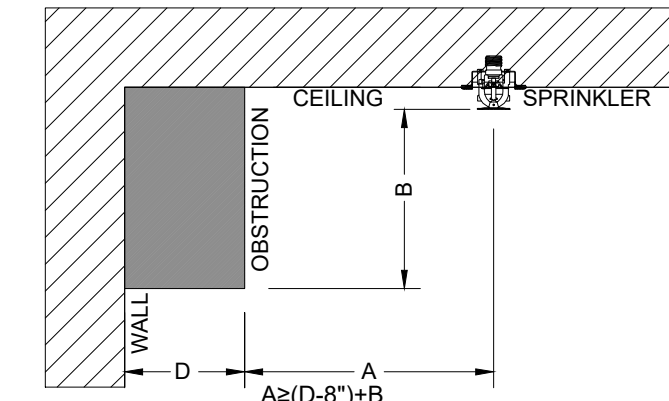
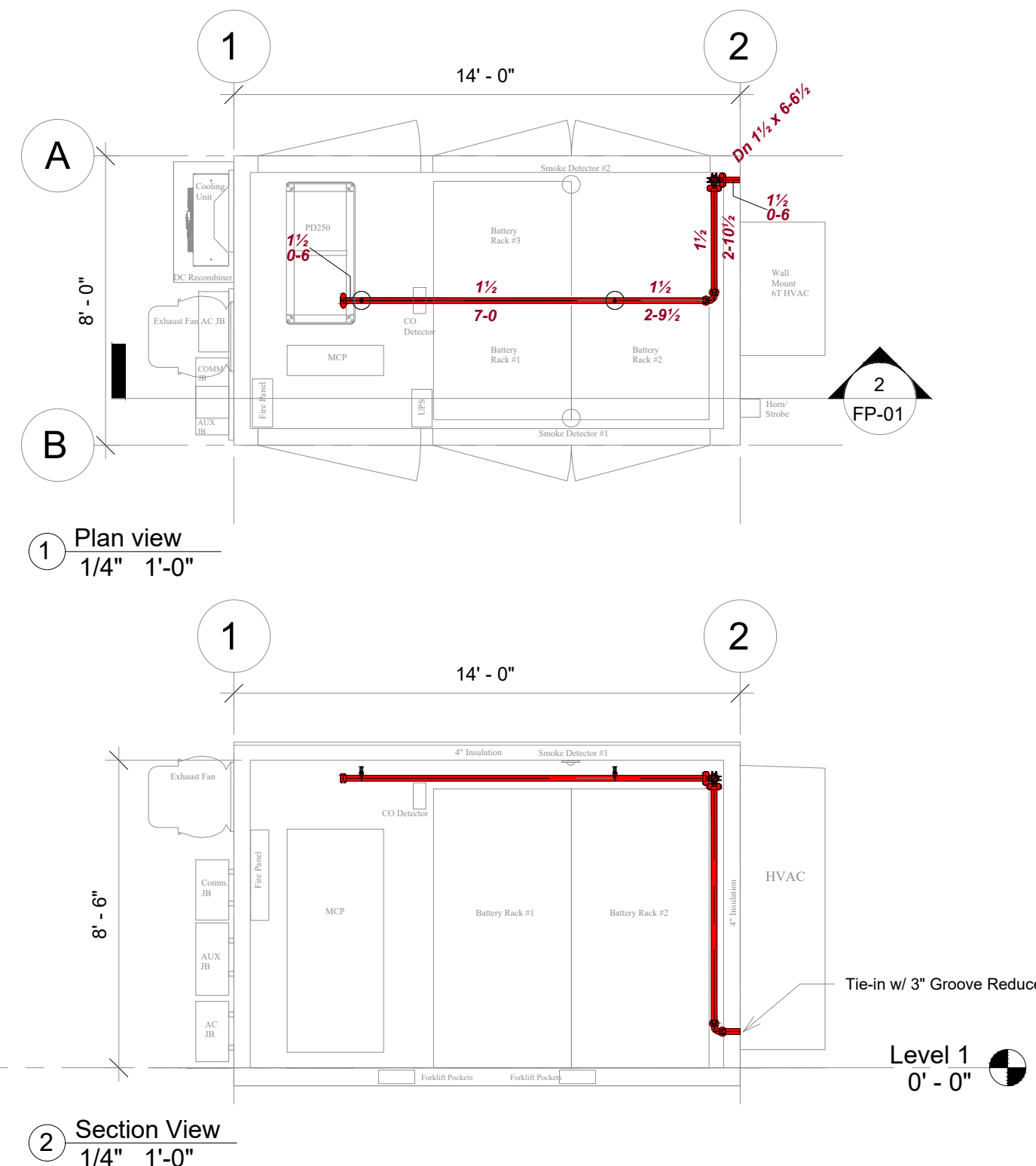


FIGURE 8.6.5.1.2(b) OBSTRUCTIONS AGAINST WALLS (SSU/SSP)

Sprinkler System Information

Name	Hazard Classification	Area
Bess Enclosure	EH1	93 SF



NO. DATE ISSUE DESCRIPTION

NY ENGINEERS
 NEARBY ENGINEERS
 382 NE 191ST STREET SUITE
 49674, MIAMI, FL 33179
 PH-914.257.3455
 WWW.NY-ENGINEERS.COM

PROJECT NAME

PHYSICAL LOCATION

DRAWING TITLE

SEAL	PROJECT NO.
	SCALE AS NOTED
	DRAWN BY NYE
	CHECKED BY NYE
	DATE 11/30/2023
	SHEET NUMBER FP-01