



- LEGEND:**
- ⊙ RECESSED PENDENT SPRINKLER ON A 1" DROP
 - ⊗ CONCEALED SPACE SPRINKLER ON A BRANCHLINE
 - ⬆ HEADS ABOVE AND BELOW CEILING
 - ⬆ K=4.4 RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER
 - ⬆ K=5.8 RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER
 - ⊙ RESIDENTIAL UPRIGHT SPRINKLER ON A BRANCH LINE
 - ⊙ CONCEALED SPACE SPRINKLER ON A 1" SPRIG
 - ⊕ RISE OR DROP
 - GROOVED RIGID COUPLING
 - GROOVED FLEXIBLE COUPLING
 - ⊙ HYDRAULIC REFERENCE POINT
 - ⊙ CEILING HEIGHT
 - HANGER
 - FF ℄= X'-X" FINISHED FLOOR TO PIPE CENTERLINE
 - LF ℄= X'-X" LOFT FLOOR TO PIPE CENTERLINE
 - C ℄= X'-X" CEILING TO PIPE CENTERLINE
 - FHV FIRE HOSE VALVE

GENERAL NOTES:

ALL 1" TO 2" PIPE IS TO BE SCH. 40 BLACK STEEL U/N.
 ALL 2 1/2" TO 6" PIPE IS TO BE SCH. 10 BLACK STEEL U/N.
 ALL THREADED PIPE FITTINGS ARE TO BE BLACK CAST IRON, CLASS 125 U/N.
 DIMENSIONS SHOWN ON THREADED PIPE ARE CENTER TO CENTER U/N.
 DIMENSIONS SHOWN ON GROOVED PIPE ARE "CUT" LENGTHS U/N.
 SUFFICIENT HEAT TO PREVENT FREEZING OF THE WET PIPE SPRINKLER SYSTEM IS REQUIRED TO BE FURNISHED BY THE BUYER/OWNER.

SYSTEM CLASSIFICATION:

THE WET PIPE SYSTEM OF AUTOMATIC SPRINKLERS IS DESIGNED IN ACCORDANCE WITH NFPA-13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION. OCCUPANCY IS RESIDENTIAL APARTMENTS-LIGHT HAZARD. THE SYSTEM IS HYDRAULICALLY CALCULATED TO PROVIDE A DENSITY OF 0.10 GPM PER SQUARE FOOT FOR THE MOST DEMANDING FOUR SPRINKLERS PER PARA. 11.3.1.1, WITH A HOSE ALLOWANCE OF 100 GPM.

THE STANDPIPE SYSTEM IS DESIGNED IN ACCORDANCE WITH NFPA-14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2016 EDITION AND THE CITY OF PORTLAND FIRE DEPARTMENT RULES AND REGULATIONS. THE STANDPIPE SYSTEM IS A CLASS 1 MANUAL-WET SYSTEM THAT IS CONNECTED TO THE CITY WATER SUPPLY BUT REQUIRES WATER FROM A FIRE DEPARTMENT PUMPER TO BE PUMPED INTO THE FIRE DEPARTMENT CONNECTION TO SUPPLY THE SYSTEM DEMAND. THE SYSTEM IS HYDRAULICALLY CALCULATED TO PROVIDE 65 PSI AT THE TOPMOST HOSE STATION WITH A SUPPLY OF 750 GPM AT 150 PSI AT THE FIRE DEPARTMENT CONNECTION.

SCOPE OF WORK:

DESIGN AND INSTALL A COMBINED STANDPIPE AND WET PIPE SPRINKLER SYSTEM ON THE THIRD AND FOURTH FLOORS OF 10 EXCHANGE STREET.
 THE BASEMENT, FIRST AND SECOND FLOORS OF THIS BUILDING ARE PROTECTED BY AN EXISTING WET PIPE SPRINKLER SYSTEM.

FIRE PROTECTION SUBCONTRACTOR: DEAN & ALLYN, INC.
 STATE OF MAINE CONTRACTOR'S LICENSE NUMBER 262
 EXPIRATION DATE: JUNE 30, 2017

WORKING DRAWINGS PREPARED BY:
 THEODORE E. CLARKE
 NICET LEVEL IV
 CERTIFICATION #71654
 STATE OF MAINE RMS LICENSE NUMBER 208
 EXPIRATION DATE: JUNE 30, 2017

DEAN & ALLYN, INC.
 FIRE PROTECTION - SPECIAL HAZARD
 116 LEWISTON ROAD, GRAY, MAINE 04039
 (207)657-5646 FAX:(207)657-5647

SCALE 1/32"=1'-0"	SCALE 1/8"=1'-0"	SCALE 3/16"=1'-0"	SCALE 1/4"=1'-0"	SCALE 3/8"=1'-0"	DANA A. STEWART NICET IV - #064544	DRAWING TITLE: FEED MAIN AND STANDPIPE LAYOUT FIRE PROTECTION SYSTEM	REV. 0
APPROVED BY	DATE	SURVEYED BY	TEC 7/6/16	DRAWN BY	TEC 7/18/16	JOB: 10 EXCHANGE STREET 10 EXCHANGE STREET PORTLAND, MAINE	NO. OF SPRINKLERS SHOWN ON THIS SHEET 0
		CHECKED BY	DAS	AT DEAN & ALLYN, INC			NO. OF SPRINKLERS FOR JOB 308
		SCALE	3/16"=1'-0" U/N	CONTRACT WITH:	10 EXCHANGE STREET LLC.		CONTRACT NO.
		SHEET NO.	FP-103		865 SPRING STREET, WESTBROOK, MAINE 04092		C161341