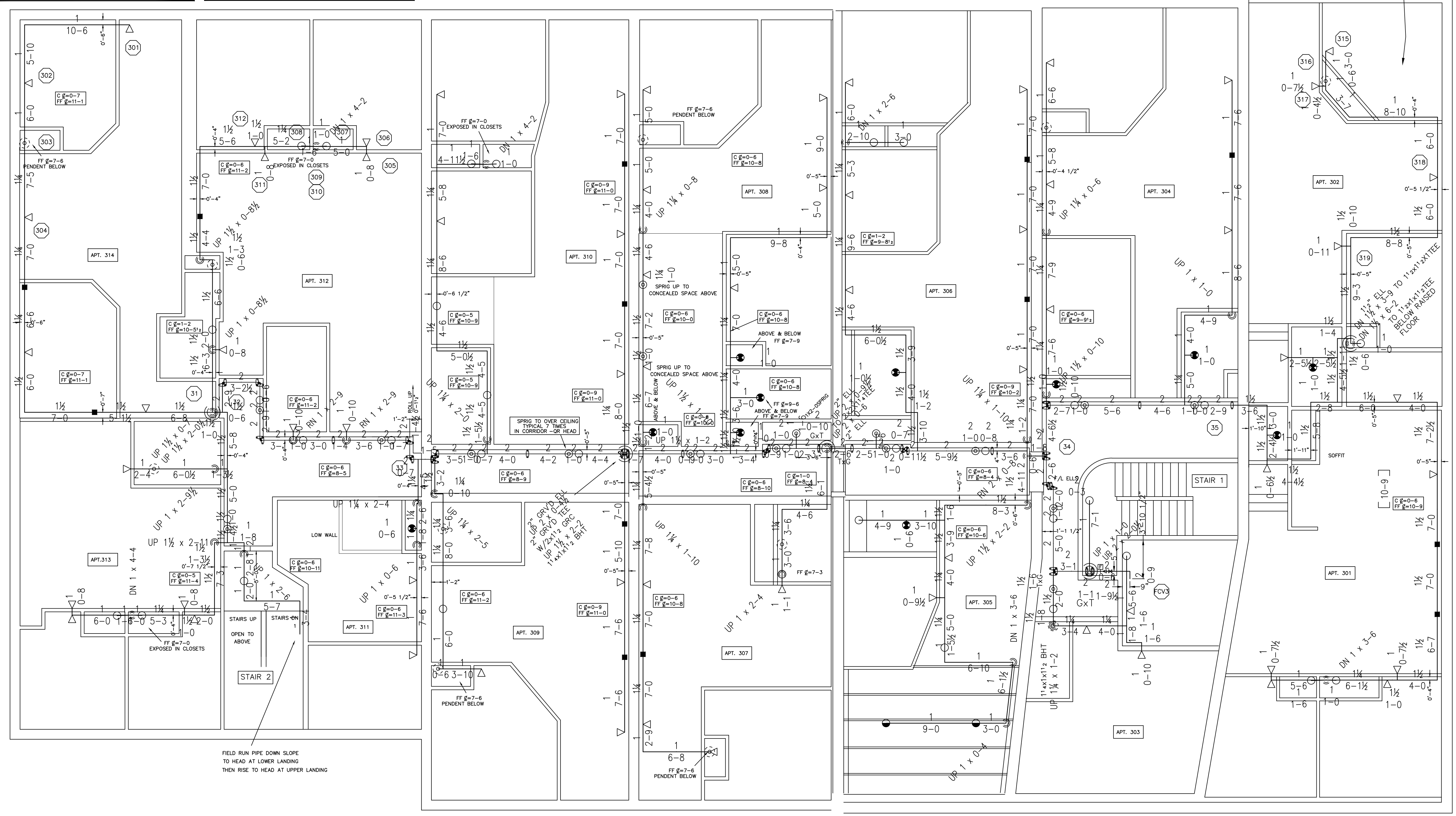


REMOTE AREA-4 HEADS
 CALC FILE: 3RD FLOOR AREA 3-1.WX1
 Design Area No. WX1 - LIGHT HAZ
 Density .10 Area 4 HEADS
 Flow 174.9 gpm @ 70.9 psi
 Includes 100 gpm Hose allowance

REMOTE AREA-4 HEADS
 CALC FILE: 3RD FLOOR AREA 3-2.WX2
 Design Area No. WX2 - LIGHT HAZ
 Density .10 Area 4 HEADS
 Flow 175.8 gpm @ 71.9 psi
 Includes 100 gpm Hose allowance

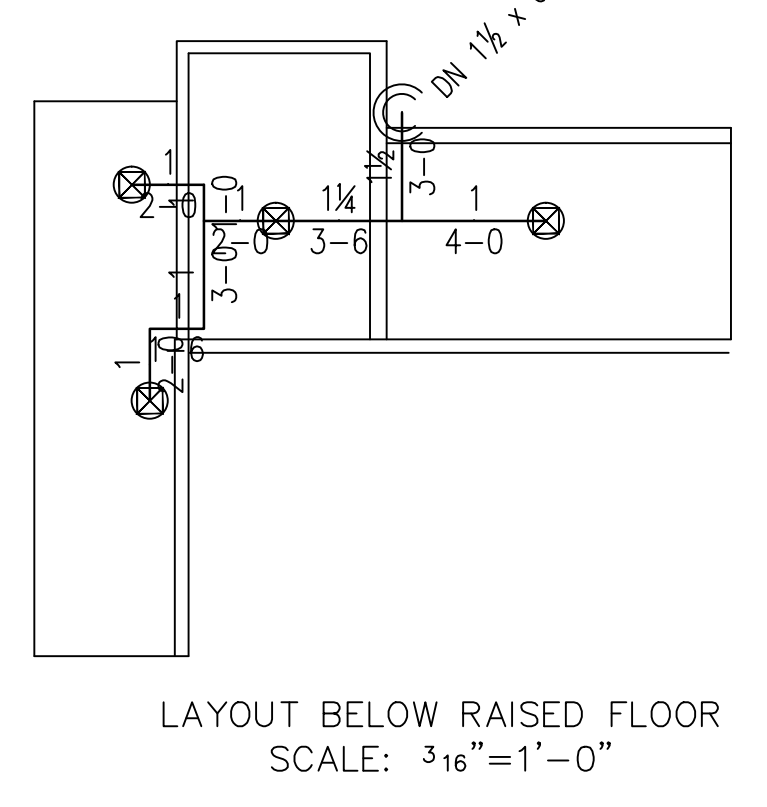
REMOTE AREA-4 HEADS
 CALC FILE: 3RD FLOOR AREA 3-3.WX4
 Design Area No. WX4 - LIGHT HAZ
 Density .10 Area 900
 Flow 174.5 gpm @ 74.1 psi
 Includes 100 gpm Hose allowance



3RD FLOOR LAYOUT
 SCALE: 3/16"=1'-0"
 NO PAINT MARK

- 24
155'
 - 31
212'
 - 66
155'
 - 36
155'
- RELIABLE MODEL F1 RES 49 RESIDENTIAL RECESSED PENDENT W/WHITE F1 ESCUTCHEON
 K=4.9, 1/2" NPT, SIN RA3516
- RELIABLE MODEL F1 RES 44 HSW RESIDENTIAL HORIZONTAL SIDEWALL, WHITE
 K=4.4, 1/2" NPT, SIN RA3531
- RELIABLE MODEL KFR-CCS COMBUSTIBLE CONCEALED SPACE SPRINKLER
 K=5.6, 1/2" NPT, SIN RA4454
- VIKING VK467 FREEDOM RESIDENTIAL UPRIGHT
 WHITE
 K=4.9, 1/2" NPT, SIN VK467

- 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'-" FINISHED FLOOR TO PIPE CENTERLINE
 - LF @ 'X'-" LOFT FLOOR TO PIPE CENTERLINE
 - C @ '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 I 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: THIRD FLOOR LAYOUT FIRE PROTECTION SYSTEM	REV. 2
DATE	DATE	DATE	DATE	DATE	SURVEYED BY TEC 5/10/16	JOB: 10 EXCHANGE STREET 10 EXCHANGE STREET PORTLAND, MAINE	NO. OF SPRINKLERS SHOWN ON THIS SHEET 157
					DRAWN BY TEC 5/12/16		NO. OF SPRINKLERS FOR JOB 308
					CHECKED BY DAS		CONTRACT NO. C161341
					AT DEAN & ALLYN, INC		
					SCALE 3/16"=1'-0" U/N	CONTRACT WITH: 10 EXCHANGE STREET LLC	
					SHEET NO. FP-100	865 SPRING STREET, WESTBROOK, MAINE 04092	