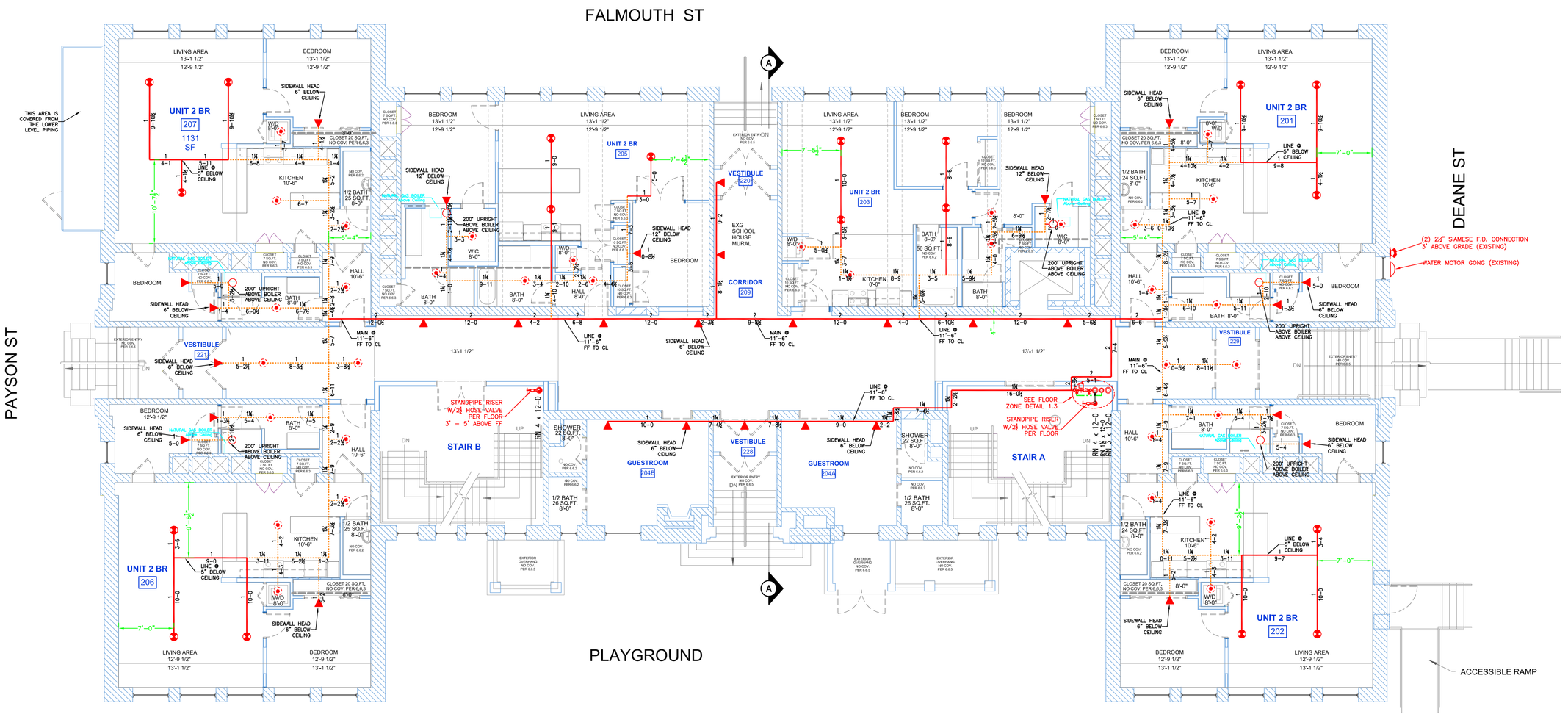
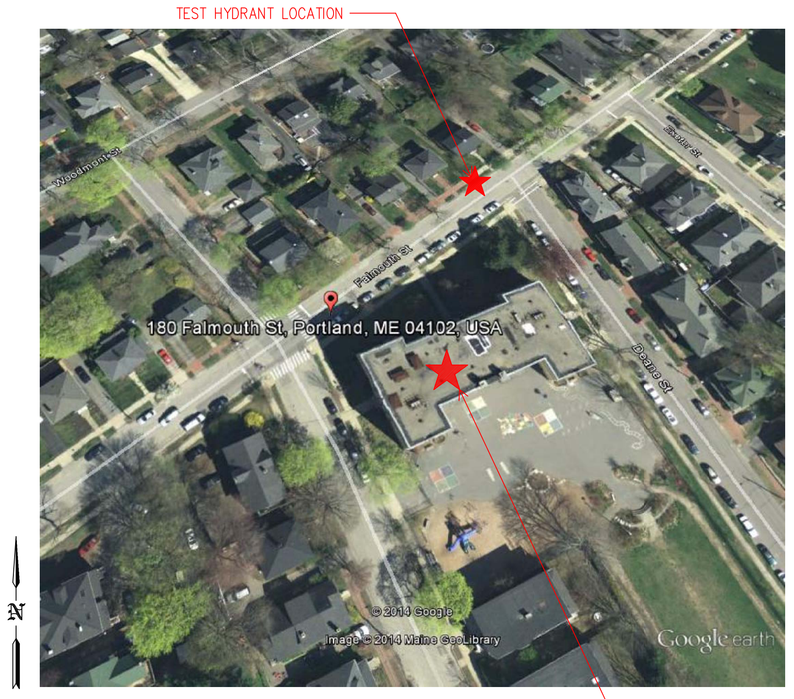
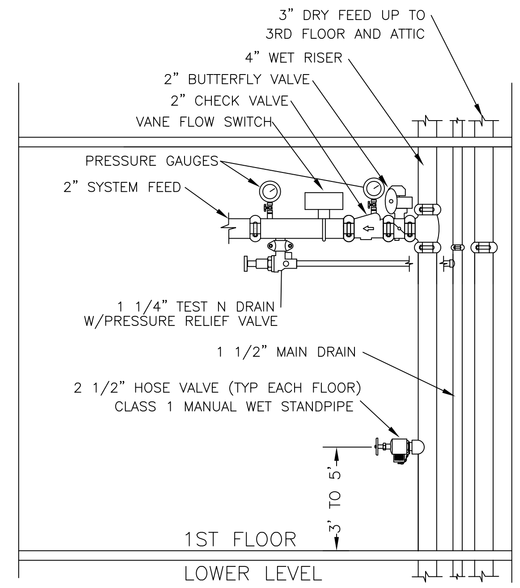


1.1 FIRST FLOOR (ZONE 2)
TOTAL PROTECTED AREA 10,300 SQ.FT.
SCALE 1/8" = 1'-0"



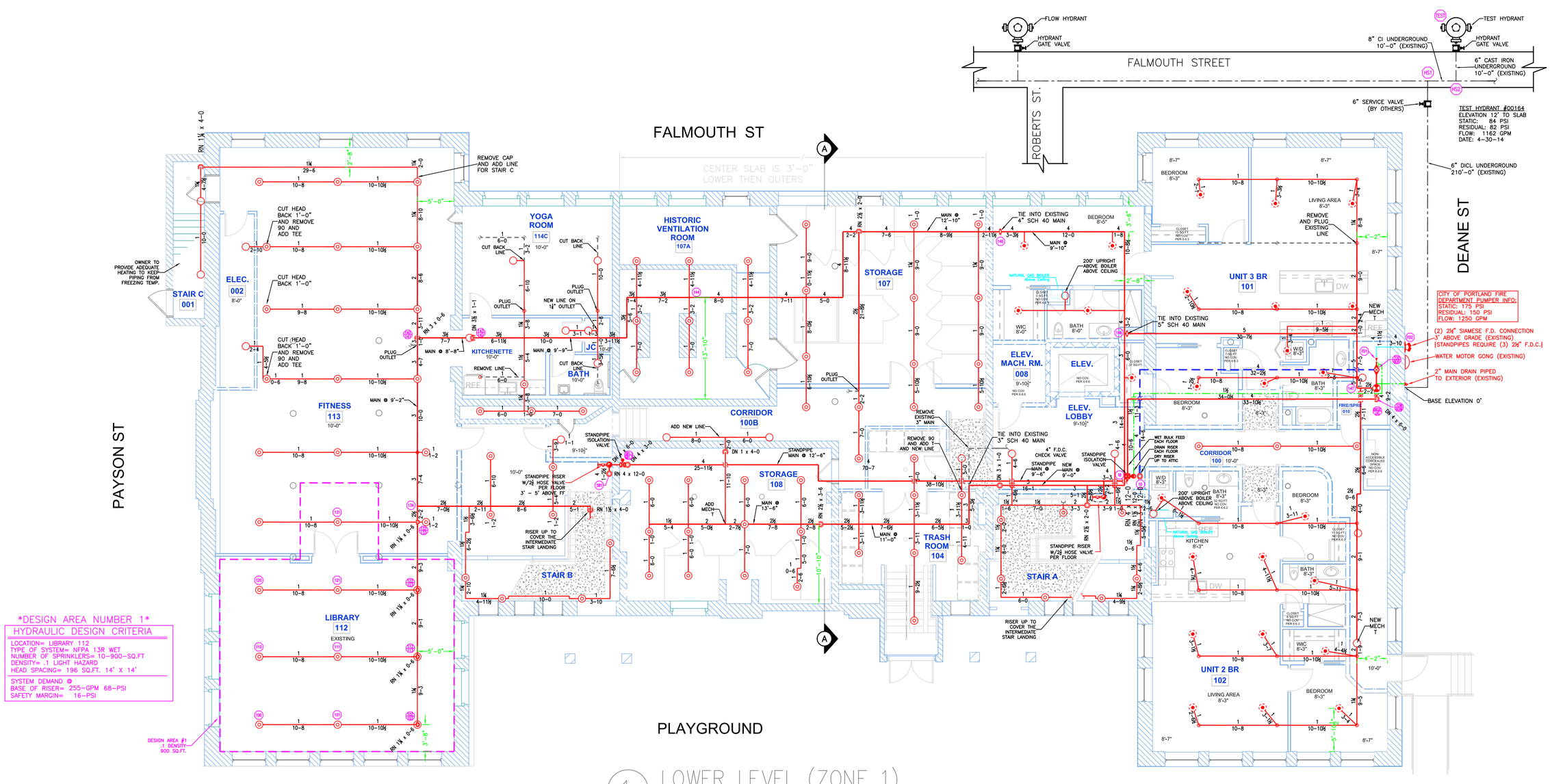
1.4 PLOT PLAN
SCALE: N.T.S.



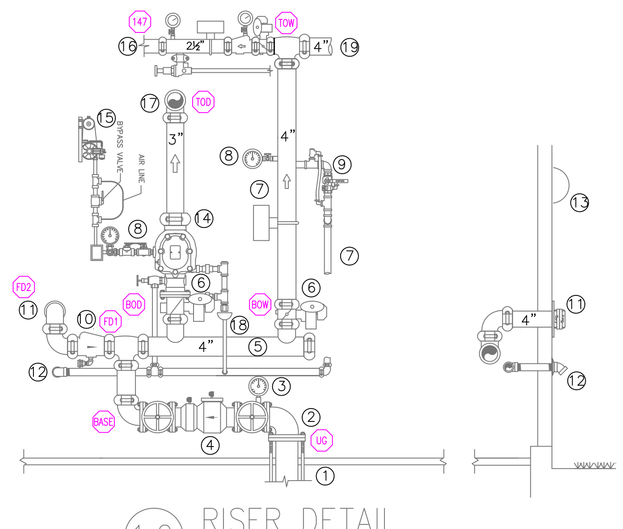
1.3 FLOOR ZONE DETAIL
SCALE: N.T.S.

SPRINKLER SYSTEM RISER DETAIL DESCRIPTIONS

1. 6" DICL UNDERGROUND (EXISTING)
2. 6" X 4" FLANGED DUCTILE IRON 90°
3. 4" OS&Y GATE VALVE WITH PRESSURE GAUGE & POTTER OSYSU-1 TAMPER SWITCH
4. 4" WILKINS 350 BACKFLOW PREVENTER.
5. 4" HEADER TO FEED DRY AND WET SYSTEM
6. BUTTERFLY VALVE WITH TAMPER SWITCH
7. POTTER VSR VANE FLOW SWITCH
8. WATER PRESSURE GAUGE
9. INSPECTORS TEST N DRAIN VALVE WITH RELIEF VALVE (ZONE 1)
10. 4" SWING CHECK VALVE FOR F.D.C. FEED 48" MINIMUM FROM EXTERIOR W BALL DRIP
11. (2) 2 1/2" SIAMESE F.D.C. FOR SPRINKLER SYSTEM (EXISTING LOCATION) STANDPIPES REQUIRE (3) 2 1/2" CONNECTIONS ARCH TO ADVISE.
12. 2" MAIN DRAIN PIPED TO EXTERIOR (EXISTING LOCATION)
13. 6" ELECTRIC BELL FOR SPRINKLER SYSTEM ON EXTERIOR OF BUILDING
14. 4" RELIABLE MODEL D DRY VALVE (250 GALLON SYSTEM CAPACITY)
15. GAST AIR COMPRESSOR 1/2 HP RISER MOUNT (250 GALLON SYSTEM VOLUME.)
16. TO 5" WET FEED TO SPRINKLER SYSTEM ZONE 1 LOWER LEVEL.
17. 4" DRY FEED UP TO 3RD FLOOR AND ATTIC LEVEL.
18. 1" DRIP CUP DRAIN WITH CHECK VALVE
19. 4" WET BULK FEED TO STANDPIPE IN STAIR A & B ZONE 2 THROUGH ZONE 4



1 LOWER LEVEL (ZONE 1)
TOTAL PROTECTED AREA 10,500 SQ.FT.
SCALE 1/8" = 1'-0"



1.2 RISER DETAIL
SCALE: N.T.S.

HIGH TECH FIRE PROTECTION
P.O. BOX 156
MINOT, ME. 04258-0258
TEL:(207) 998-2551 FAX:(207) 998-4187
MAINE LICENSE # 102

GENERAL CONTRACTOR ON RECORD:
CCB 65 BRADLEY DRIVE WESTBROOK.
HEATHER LUMB: PM # 887-3228
JAMES TREMBLAY: JS # 615-8704

SPECIAL APPLICATIONS:

LEGEND:
- RN/DN PIPE RISER UP OR DOWN
- PROPOSED DRAIN PIPE
- PROPOSED WET STEEL PIPE
- PROPOSED CPVC PIPE
- PROPOSED DRY STEEL PIPE
- SYSTEM RISER
- PIPE PITCH ¼ MAINS ½ LINES
- HYDRAULIC CALC. POINT

DESIGN & SYSTEM NOTES:

ALL PIPING 1 1/2" & LARGER TO BE SCHEDULE 10 WITH GROOVED DUCTILE IRON FITTING OR CPVC.

ALL PIPING 1 1/4" & SMALLER TO BE SCHEDULE 40 WITH APPROPRIATE FITTING OR CPVC.

POSITION, LOCATION, SPACING, AND USE OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13R.

POSITION, LOCATION, SPACING, AND USE OF HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13R.

HYDRAULIC CALCULATION PROCEDURES HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13R. (SEE PLANS FOR LOCATION OF REMOTE AREAS, HYDRAULIC REFERENCE POINTS, AND SYSTEM DEMANDS.)

HIGH TECH FIRE PROTECTION IS TO BEGIN WORK AT 6" MAIN 1' AFF INSIDE OF BUILDING.

DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER HEADS AND PIPE MAY VARY TO ACCOMMODATE ACTUAL FIELD CONDITIONS.

OWNER TO PROVIDE ADEQUATE HEAT THROUGHOUT BUILDING TO PROTECT WATER FILLED PIPING AND EQUIPMENT FROM FREEZING TEMPERATURES.

ONLY TRI-SEAL TYPE COUPLINGS TO BE INSTALLED ON DRY AND OR PRE-ACTION SYSTEMS.

OWNER IS RESPONSIBLE TO MAINTAIN THE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 25, "INSPECTION, TESTING, & MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS" AND/OR ALL APPLICABLE FEDERAL, STATE, AND/OR LOCAL LAWS, CODES AND ORDINANCES.

ALL MECHANICAL, ELECTRICAL AND PLUMBING TRADES TO COORDINATE THEIR WORK WITH SPRINKLER CONTRACTOR.

ALL ELECTRIC WORK IS TO BE DONE BY OTHERS.

HEAD LEGEND:

ON A SPRIG — GLOBE* MODEL GL5601 (108/155'&200' K=5.6) — ON THE LINE
1/2" BRASS UPRIGHT ON THE LINE OR SPRIG
DEFLECTORS 1" TO 12" BELOW NON-COMBUSTIBLE CEILINGS

RELIABLE* MODEL FIRES44 (29/155' K=4.4)
1/2" WHITE HORIZONTAL SIDEWALL SEMI-RECESSED ESC.
14' X 14' MAX SPACING
4" TO 6" BELOW CEILING TYPICAL
6" TO 12" BELOW WHERE NOTED

RELIABLE* MODEL FIRES49 (59/155' K=4.9)
1/2" RESIDENTIAL WHITE CONCEALED PENDENT IN GWB
16' X 16' MAX SPACING

VIKING* MODEL VK467 (19/155' K=4.9)
1/2" RESIDENTIAL CHROME UPRIGHT EXPOSED ON THE LINE
14' X 14' MAX SPACING
5" TO 10" BELOW CEILING

OR APPROVED EQUAL

TOTAL HEADS ON THIS SHEET: 215

SCALE: 1/8"=1'-0"

REVISIONS:
NO. DATE: DESCRIPTION:

DATE: APRIL 30, 2014
DESIGNER: ED POULIN (RMS# 515)
NICET LEVEL: IV CERT # 108534
CHECKED BY: J. FOSS

LOCATION:
180 FALMOUTH STREET
PORTLAND, ME

DRAWING TITLE:
NATHAN CLIFFORD RESIDENCE
LOWER LEVEL & 1ST FL.
FIRE PROTECTION PLAN
(NFPA 13R 2010ed.)

DRAWING NO.:
FP-01

EDWARD M POULIN LEVEL IV NICET MAINE RMS #515 FIRE PROTECTION ENGINEERING