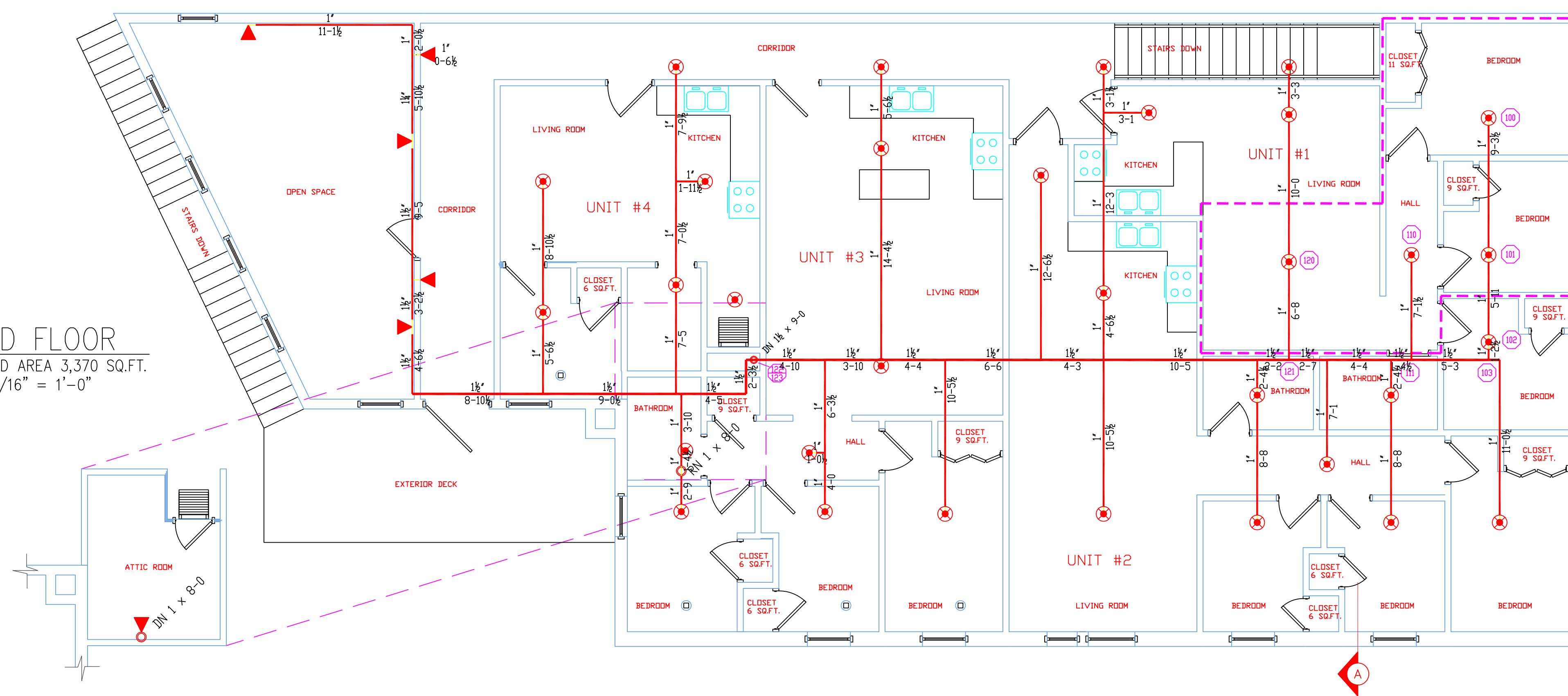
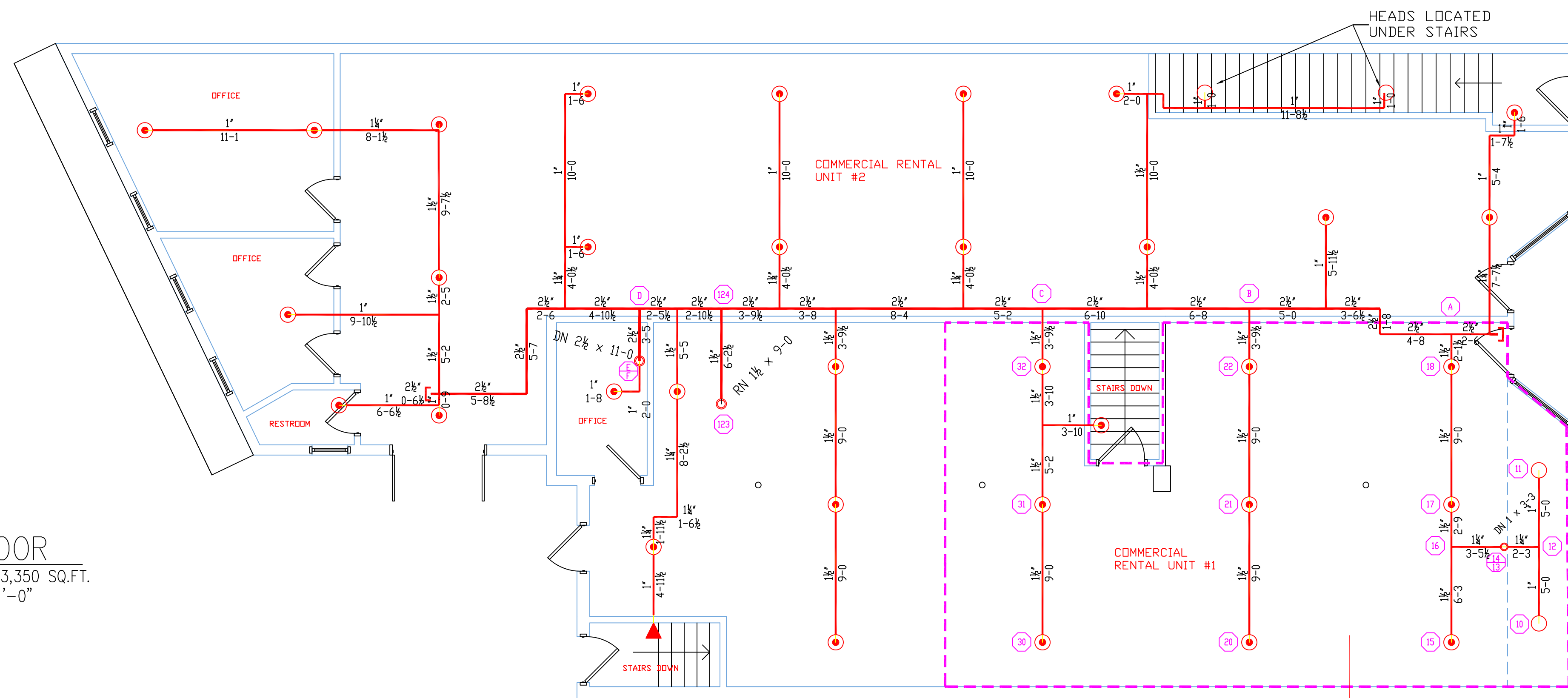


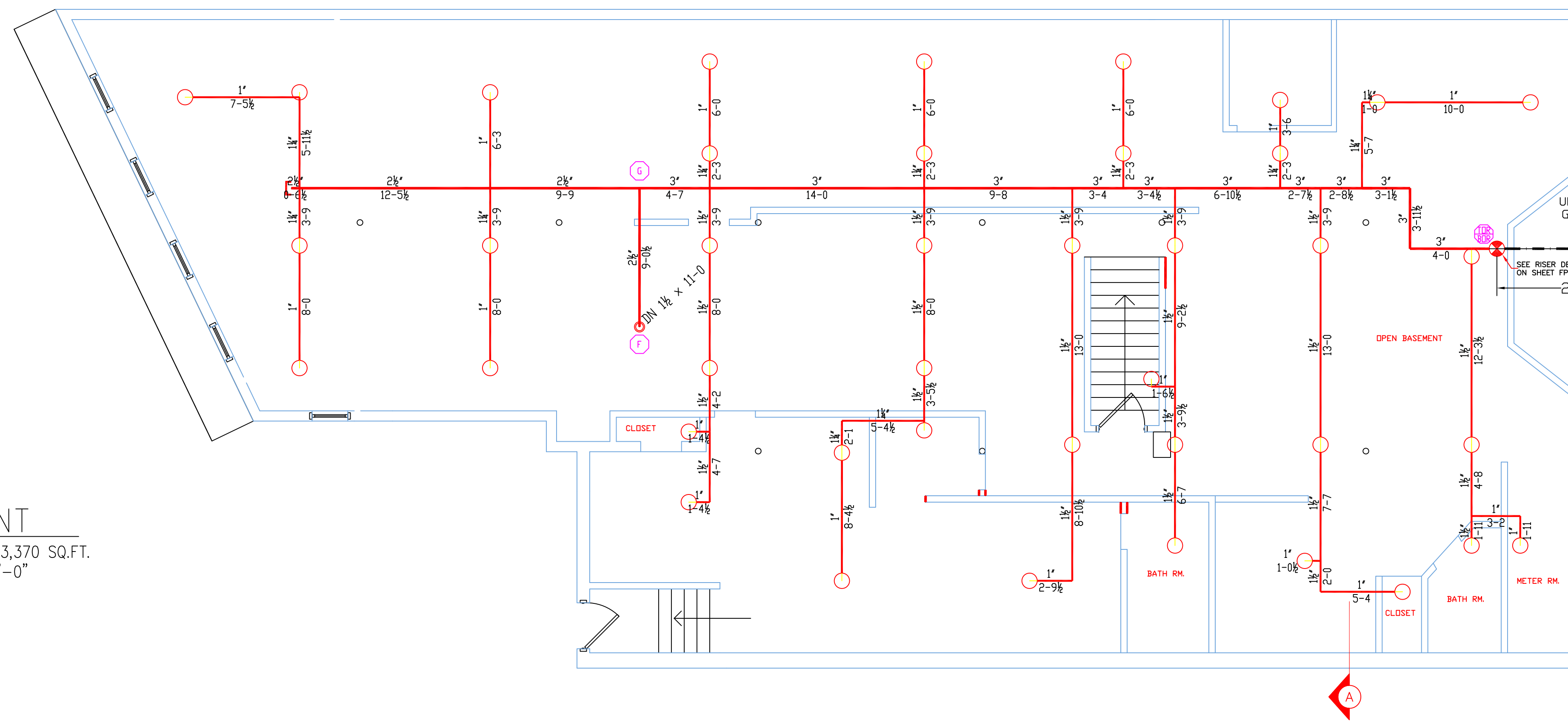
**SECOND FLOOR**  
 TOTAL PROTECTED AREA 3,370 SQ.FT.  
 SCALE 3/16" = 1'-0"



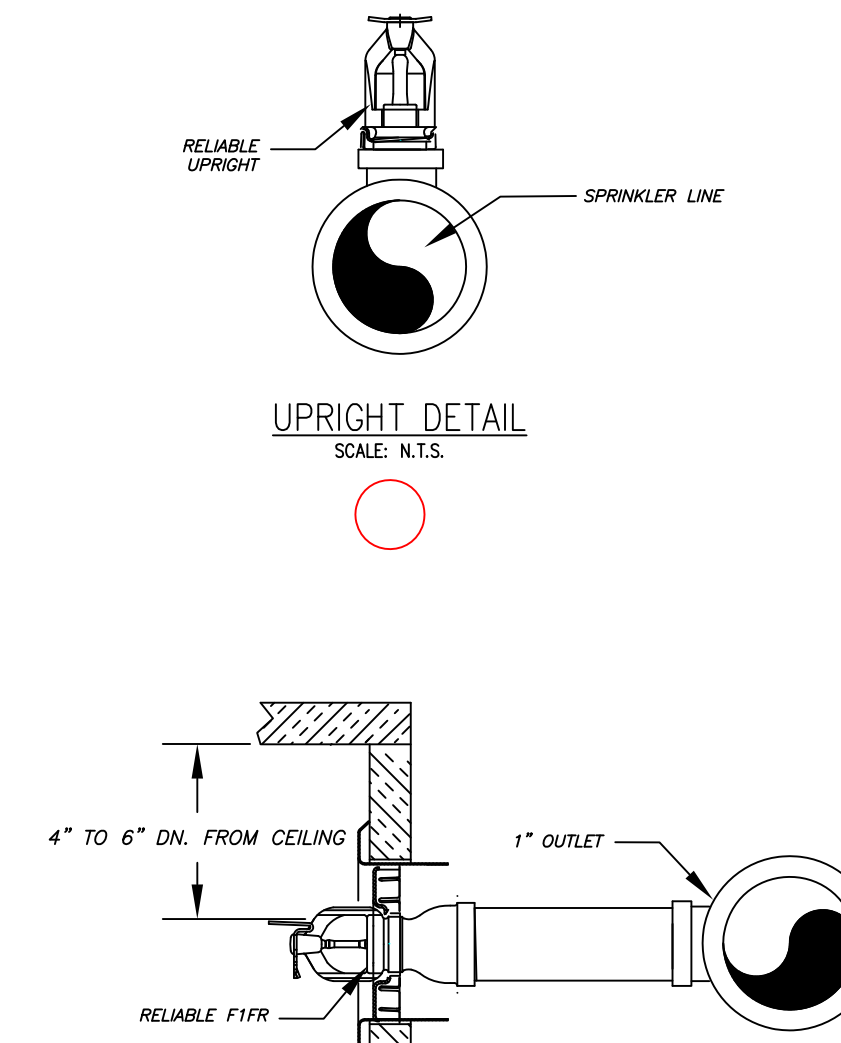
**FIRST FLOOR**  
 TOTAL PROTECTED AREA 3,350 SQ.FT.  
 SCALE 3/16" = 1'-0"



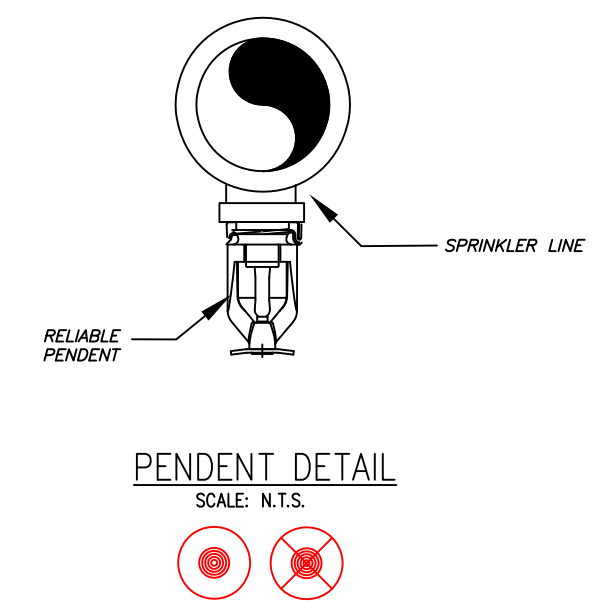
**BASEMENT**  
 TOTAL PROTECTED AREA 3,370 SQ.FT.  
 SCALE 1/4" = 1'-0"



**HYD. DESIGN CRITERIA #2**  
 (NFPA 13)  
 LOCATION=2ND FLOOR APARTMENT  
 HAZARD CLASSIFICATION: LIGHT HAZARD  
 DENSITY= 1 GPM/SQ.FT.  
 AREA OF OPERATION= 381 SQ. FT.  
 INSIDE HOSE DEMAND: 0 GPM  
 OUTSIDE HOSE DEMAND: 100 GPM  
 NO. OF SPRINKLERS=4  
 SYSTEM DEMAND (INCLUDING HOSE) @  
 BASE OF RISER= 213-GPM 86-PSI  
 SAFETY MARGIN=8.5-PSI



**RELIABLE SIDEWALL DETAIL**  
 SCALE: N.T.S.



**HYD. DESIGN CRITERIA #1**  
 (NFPA 13)  
 LOCATION=1ST FLOOR MERCHANTILE  
 HAZARD CLASSIFICATION: ORDINARY HAZARD 2  
 DENSITY= 2 GPM/SQ.FT.  
 AREA OF OPERATION= 900 SQ. FT.  
 INSIDE HOSE DEMAND: 0 GPM  
 OUTSIDE HOSE DEMAND: 250 GPM  
 NO. OF SPRINKLERS=11  
 SYSTEM DEMAND (INCLUDING HOSE) @  
 BASE OF RISER= 555-GPM 85-PSI  
 SAFETY MARGIN=8.8-PSI

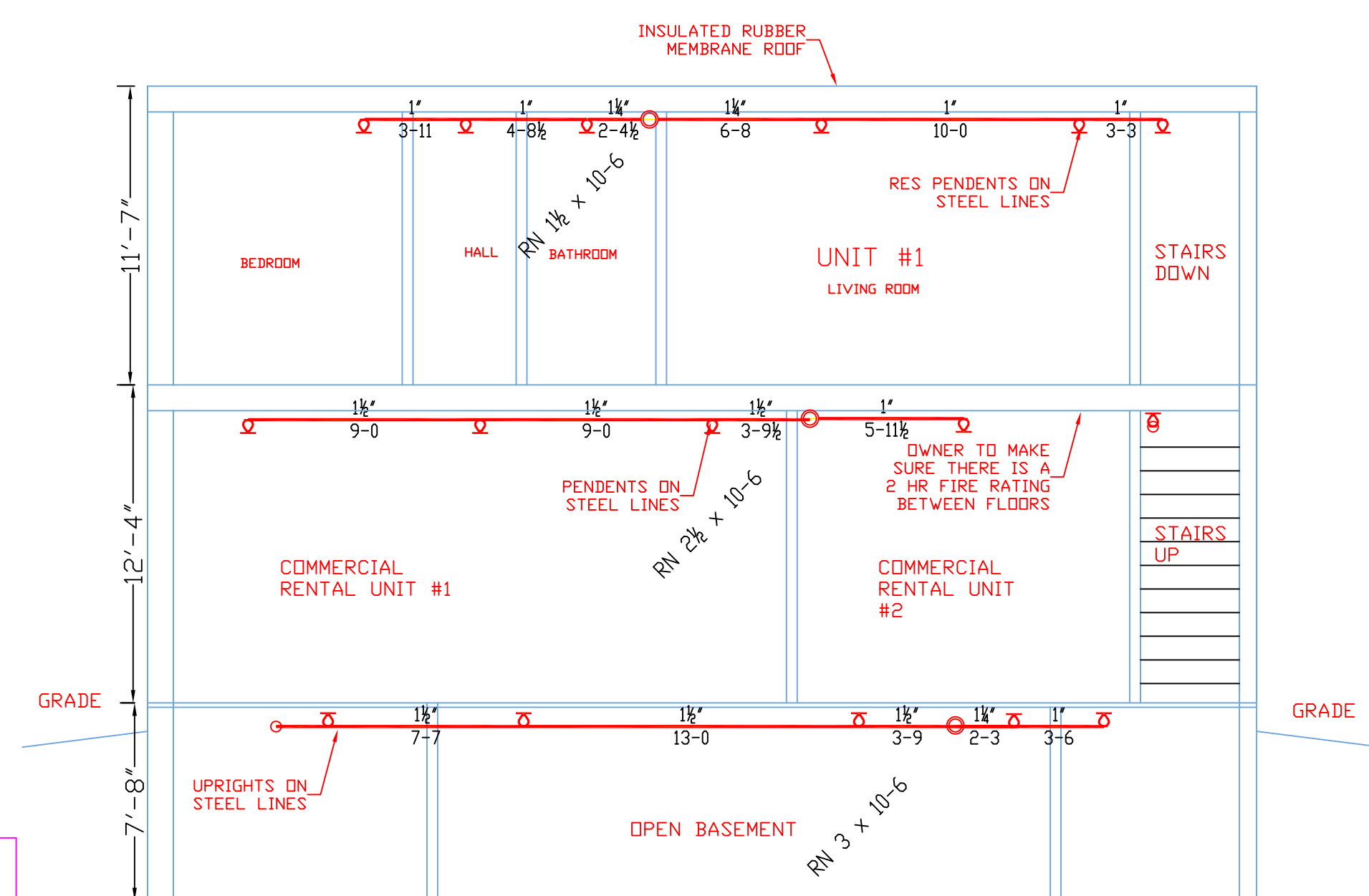
6" ELECTRIC BELL 8' ABOVE GRADE  
 4" STORZ F.D.C. 18" -36" ABOVE GRADE  
 1 1/2" MAIN DRAIN 18" ABOVE GRADE

TEST HYDRANT #1218  
 ELEVATION -8'  
 STATIC 94 PSI  
 RESIDUAL: 86 PSI  
 FLOW: 2288 GPM  
 DATE: 8/29/2008

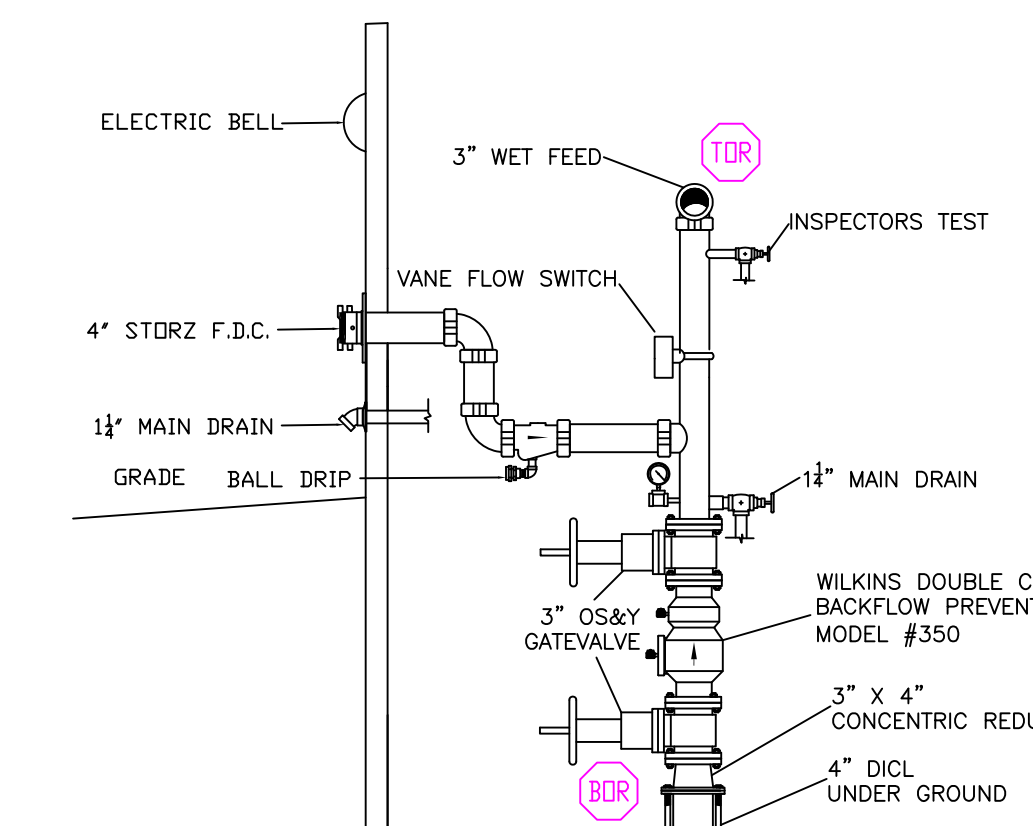


PROJECT SITE

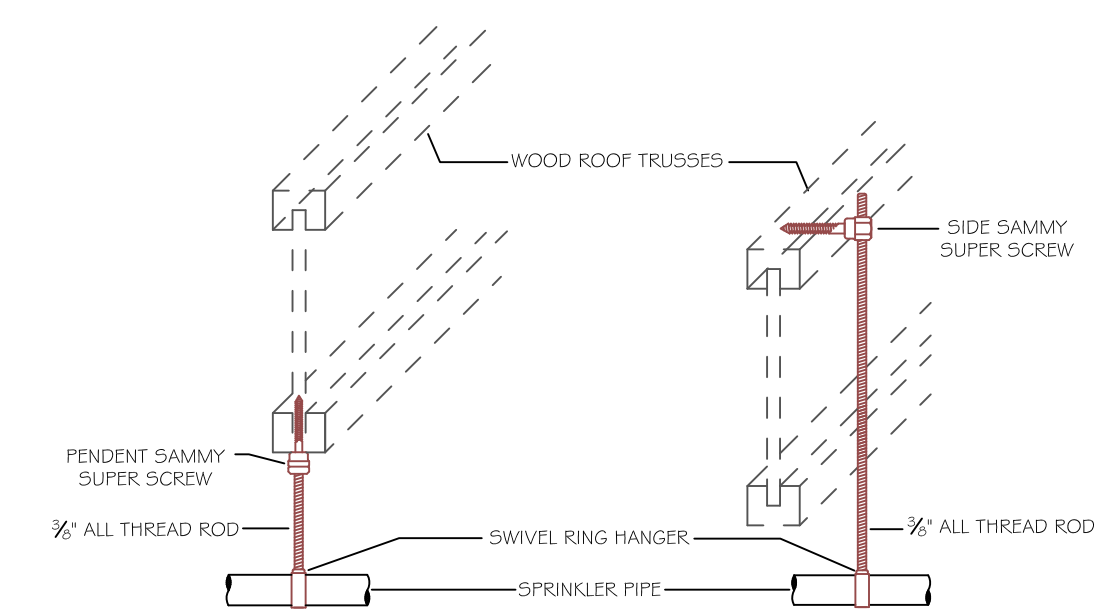
**SITE PLAN**  
 SCALE: N.T.S.



**SECTION A**  
 SCALE 3/16" = 1'-0"



**RISER DETAIL**  
 SCALE: N.T.S.



**HANGER DETAIL**  
 SCALE: N.T.S.

**PROJECT INFORMATION:**

**SCOPE:**  
 The fire protection project consists of providing a "WET" NFPA 13 sprinkler system to protect the 4 unit apartments and 2 merchantile spaces.

**WATER SUPPLY:**  
 NEW 4" underground feed by the city water supply.  
 A 4" FDC will be installed for use by the Fire Department.

**CONSTRUCTION TYPE:**  
 Construction type is "Wood and block construction with g.w.b. and a.c.t."

**CODE REFERENCES:**  
 NFPA 13 Sprinkler System

**SPRINKLER SYSTEM NOTES:**

- DESIGN AND INSTALLATION SHALL CONFORM TO NFPA #13 STANDARD AND LOCAL FIRE AND BLDG CODES.
- HANGER INSTALLATION AND SPACING SHALL BE IN ACCORDANCE WITH N.F.P.A. #13
- ALL EQUIPMENT TO BE UL LISTED FOR FIRE PROTECTION USE.
- FIELD FOREMAN TO VERIFY LOCATION OF HIGH TEMPERATURE SPRINKLERS AND INSTALL HIGH TEMPERATURE SPRINKLERS IN ACCORDANCE WITH N.F.P.A. #13
- IF REQUIRED, SLEEVES THROUGH WALLS AND FLOORS SHALL BE SCH. 10 LW. GALVANIZED AND PACKED WITH NONCOMBUSTIBLE, SMOKE PROOF, AND WATERPROOF FIRE SEALANT.
- THE OWNER SHALL HEAT THE BUILDING SO THAT THE WATER FILLED PIPE WILL NOT FREEZE.

REVISIONS:

NO.	DATE	DESCRIPTION:

SPECIAL APPLICATIONS:

NO.	DESCRIPTION:

"RELIABLE" FIFR58 PENDENT QUICK RESPONSE RESIDENTIAL SPRINKLER

35	155'	5.8
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1/2" WHITE PENDENT 16X16" SPACING

"RELIABLE" FIFR56 PENDENT QUICK RESPONSE SPRINKLER

35	155'	5.6
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1/2" WHITE PENDENT 130' SPACING

"RELIABLE" FIFR56 HSW QUICK RESPONSE SPRINKLER

6	156'	5.6
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1/2" WHITE HSW 196' SPACING

"RELIABLE" FIFR56 UPRIGHT QUICK RESPONSE SPRINKLER

42	200'	5.6
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1/2" BRASS UPRIGHT 130' SPACING

**LEGEND:**

- HYDRAULIC CALC. POINT
- STEEL PIPING
- CPVC PIPING
- PIPE RISER UP
- PIPE RISER DOWN
- SPRINKLER RISER

**Contractor:**

ALTERNATIVE SPRINKLER  
 59 JACKSON ROAD  
 POLAND SPRING, ME 04274  
 PHONE: 207-638-8930

SPRINKLER CONT. LICENSE # 905

NFPA 13 SPRINKLER SYSTEM

**Project:**  
 671 FOREST AVE  
 APARTMENT BLDG.  
 AND MERCHANTILE

**Scale:** 1/4" = 1'-0"

Drawn by: TIMOTHY FORTIN  
 RMS # 866  
 NICET LEVEL III CERT. # 122193

Date: 10/23/2014

Approval by: Local Fire Dept.  
 State of Maine

**LOCATION:**  
 671 FOREST AVE  
 PORTLAND, MAINE

**SHEET NUMBER**

**FP-1**

**1 OF 1**

NOTE: USE OF THESE PLANS BY THE INSTALLING CONTRACTOR SHALL INDICATE ACCEPTANCE OF ALL THE INFORMATION PROVIDED ON THESE PLANS AND SHALL TRANSFER FINAL RESPONSIBILITY OF THE CORRECTNESS OF THE SYSTEM TO THE INSTALLING CONTRACTOR. ANY DESIGN ERRORS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. NOTE: ADDITIONAL SPRINKLER HEADS OVER AND ABOVE THOSE SPECIFICALLY NOTED ON THESE DRAWINGS MAYBE REQUIRED DEPENDING ON THE REQUIRED ROUTING AROUND TRUSSES, HVAC DUCTWORK, HOODS AND OTHER SIMILAR OBSTRUCTIONS. FIELD VERIFY EXISTING CONDITIONS DURING CONSTRUCTION AND PROVIDE ANY AND ALL ADDITIONAL HEADS AS REQUIRED FOR FULL COVERAGE AND A COMPLETE, CODE COMPLIANT SYSTEM.