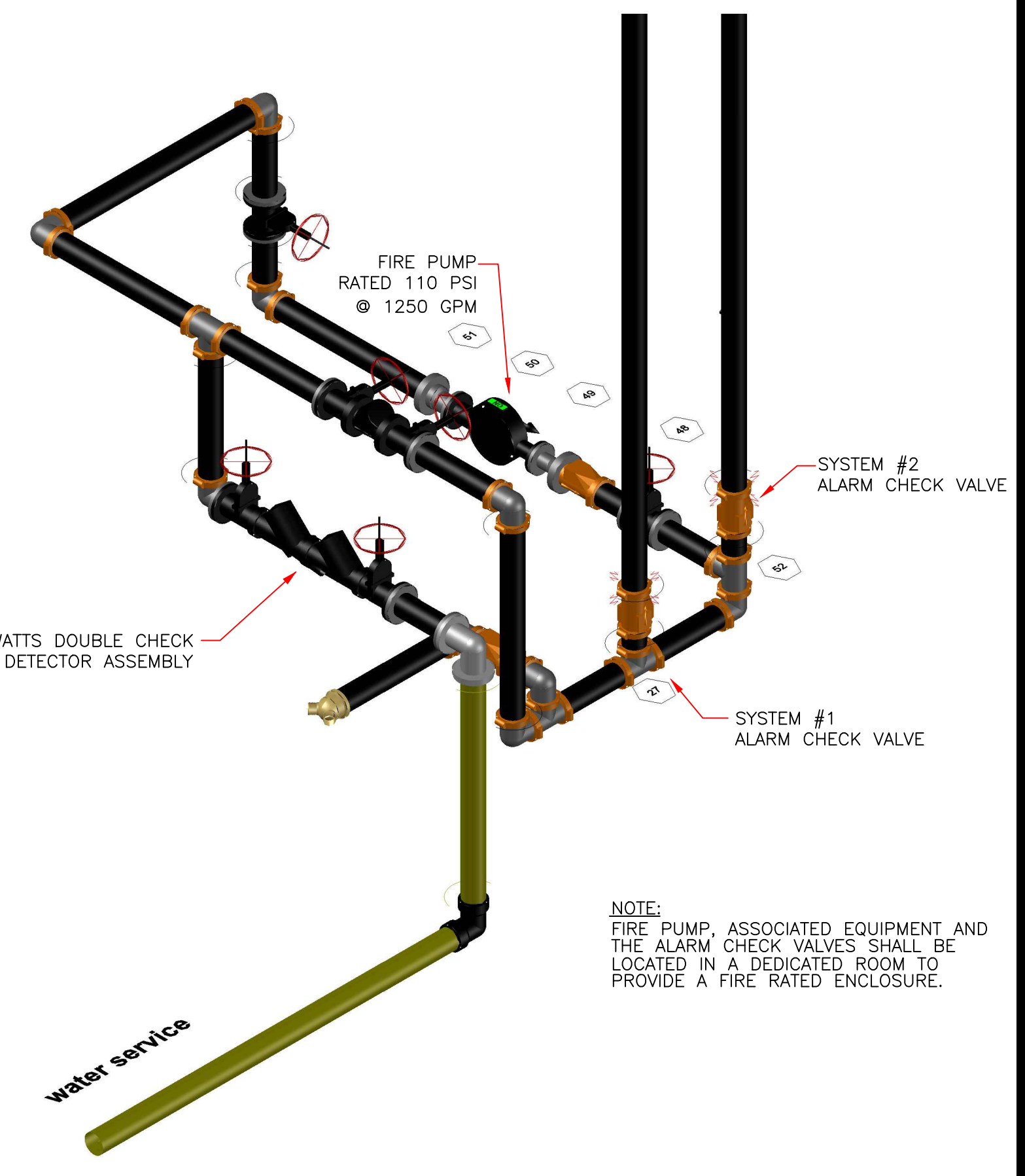


1. WET PIPE SPRINKLER SYSTEM HYDRAULICALLY CALCULATED AS PER NFPA 13 (EDITION 2013)
2. MAXIMUM HEAD SPACING IS 100 SQ. FT.
3. MAXIMUM STORAGE HEIGHT MUST BE 3'-0" BELOW THE FIRE SPRINKLER DEFLECTOR LEVEL. THEREFORE STORAGE HEIGHT MAY VARY BETWEEN 22'-6" TO 24'-6" IN HEIGHT DEPENDING ON THE COMMODITY LOCATION.
4. THE SYSTEM PROTECTION APPLIES TO:
  - 4A. - PALLETIZED AND SOLID-PILED STORAGE OF CLASS I, II, III AND IV ENCAPSULATED AND NON-ENCAPSULATED COMMODITIES, AS PER TABLE 14.4.1 OF NFPA 13 (EDITION 2013).
  - 4B. - PALLETIZED AND SOLID PILE STORAGE (NO OPEN TOP) OF CARTONED UNEXPANDED AND EXPOSED UNEXPANDED PLASTICS, AS PER TABLE 15.4.1 OF NFPA 13 (EDITION 2013).
  - 4C. - CLASS I THROUGH IV ENCAPSULATED OR NON-ENCAPSULATED COMMODITIES STORED ON SINGLE ROW, DOUBLE ROW AND MULTIPLE ROW RACKS WITH NO IN-RACK SPRINKLER REQUIREMENT AS PER NFPA 13 (EDITION 2013).
  - 4D. - CARTONED NON-EXPANDED, EXPOSED NON-EXPANDED AND CARTONED EXPANDED PLASTICS STORED IN SINGLE, DOUBLE AND MULTIPLE ROW RACKS WITH NO IN-RACK SPRINKLER REQUIREMENT AS PER NFPA 13 (EDITION 2013).
  - 4E. - RUBBER TIRE STORAGE ON SIDE OR ON THREAD IN PALLETIZED PORTABLE RACKS OR FIXED RACKS WITHOUT SOLID SHELVES AS PER TABLE 18.4 (d) OF NFPA 13 (EDITION 2013).
  - 4F. - HEAVY AND MEDIUM WEIGHT ROLL PAPER AS PER TABLE 19.1.2.3 OF NFPA 13 (EDITION 2013).

- SCOPE OF WORK**
1. ALL SPRINKLER HEADS TO BE RELIABLE JL-17 ESRF
  2. INSTALL NEW PIPING AS PER PLAN
- SYSTEM GENERAL NOTES**
1. SYSTEM IS A WET PIPE SPRINKLER SYSTEM
  2. PIPE AND FITTINGS 1" TO BE BLACK SCHEDULED 40 WITH THREADED CAST IRON FITTINGS. 2" TO BE SCH. 40 GROOVED, 2 1/2" AND LARGER TO BE SCHEDULED 40 WITH GROOVED FITTINGS
  3. ALL HANGER MATERIAL TO BE LISTED FOR FIRE PROTECTION USE
  4. SYSTEM TO BE MONITORED (ALARM & TROUBLE) BY BLDG. FIRE ALARM SYSTEM (WIRING TO SYSTEM BY OTHERS)
  5. ALL MATERIALS TO BE LISTED FOR FIRE PROTECTION USE.

HYDRAULIC SYSTEM		WATER FLOW DATA	
LOCATION: WAREHOUSE	STATIC: 60 PSI	RESIDUAL: 45 PSI	FLOW: 1186 GPM
NO. OF SPRINKLERS: 482	TEST DATE: 02/12/14	TEST CONDUCTED BY:	
BASIS OF DESIGN:	12 SPRINKLERS AT 35 PSI OF 16.8 K FACTOR	PUMP RATED: 110 PSI AT 1250 GPM	SYSTEM DEMAND AT PUMP: 1210 GPM @ 92 PSI
2. DESIGNED AREA OF DISCHARGE: 1096 SQ. FT.		AVAILABLE PRESSURE AT PUMP: 1210 GPM @ 115.9 PSI	AVAILABLE PRESSURE AT SOURCE: 1710 GPM @ 30.5 PSI
3. AREA PER SPRINKLER: 91.3 SQ. FT.		OUTSIDE HOSE ALLOWANCE: 500 GPM	SYSTEM SAFETY MARGIN: 23.6 PSI

IMPORTANT TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPE ARE INSTALLED.



WAREHOUSE FIRE SPRINKLER PLAN VIEW  
SCALE: 1/8" = 1'-0"

**FP SYMBOL LEGEND:**

- = UPRIGHT SPRINKLER
- △ = SIDEWALL SPRINKLER
- ◇ = DRY SIDEWALL SPRINKLER
- ◊ = PENDENT SPRINKLER
- ⊙ = RISE/DROP FROM 90°
- (with dot) = HYDRAULIC REF. POINT
- = PIPE RISE TO NEXT FLOOR
- (with line) = RISE/DROP FROM TEE
- (with T) = DROP WITH DIAMETER
- (solid) = NEW SPRINKLER PIPE
- (dashed) = EXISTING SPRINKLER PIPE

**SPRINKLER SCHEDULE & SYMBOL LEGEND**

NO.	SYMBOL	DESCRIPTION	SIZE	TEMP.	FERR.	QTY.	
RA1914	○	RELIABLE MODEL JL-17 UPRIGHT	3/4"	16.8	165 F	Bronze	482

HEAD CAPS & WRENCHES PROVIDED

TOTAL COUNT THIS PLAN = 482

MULTI-TENANT WAREHOUSE  
FIRE SPRINKLER PLAN

**NORTH**

DRAWN BY: S.P.  
SCALE: 1/8" = 1'-0"  
DESIGN BY:  
FILE NUMBER:  
APPROVAL:  
DATE:  
DRAWING NO. **SP.1**