



**HYDRAULIC CALCULATIONS DATA:**

OCCUPANCY: ORD. HAZ. GRP. 2

DESIGN DENSITY: 0.20 GPM/S.F.

AREA OF OPERATION: 1500 S.F.

HOSE STREAM ALLOWANCE: 250 GPM

SPRINKLER COVERAGE: 130 S.F. MAX.

(PROVIDE A 10% SAFETY FACTOR BETWEEN HYDRAULIC DESIGN REQUIREMENTS AND AVAILABLE SUPPLY)

**AVAILABLE PRESSURES:**

- STATIC PRESSURE: 54 PSI
- RESIDUAL PRESSURE: 50 PSI AT 876 GPM.

DATA WAS OBTAINED FROM HYDRAULIC CALCULATIONS FOR SECOND FLOOR PACU UNIT CURRENTLY UNDER CONSTRUCTION. FIELD VERIFY PIPE SIZES AND ROUTING TO DESIGN AREA.

- GENERAL NOTES:**
1. PROVIDE A HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA REQUIREMENTS.
  2. SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13, LIGHT HAZARD OCCUPANCY CLASSIFICATION EXCEPT AS FOLLOWS:
    - ORDINARY GROUP 1 HAZARD CLASSIFICATION
      - MECHANICAL ROOMS
      - CLEAN LINEN ROOMS
      - EMPLOYEE LOCKER ROOMS
    - ORDINARY GROUP 2 HAZARD CLASSIFICATION
      - STORAGE ROOMS
      - SOILED LINEN ROOMS
      - LABORATORY AREAS
      - TRASH ROOMS
  3. AVOID RUNNING PIPING ABOVE NEW OR EXISTING ELECTRICAL PANELS, COORDINATE WITH ELECTRICAL CONTRACTOR.
  4. COORDINATE PIPING INSTALLATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.
  5. ADDITION AND ALL WORK ASSOCIATED WITH CONTRACT SHALL BE FULLY SPRINKLERED AND INSTALLED PER NFPA REQUIREMENTS (PERFORMANCE SPECIFICATION) AND AS OUTLINED BY CONTRACT SPECIFICATIONS.
- KEYED NOTES:**
- ① AREA OF BUILDING TO BE SPRINKLERED.
  - ② CONNECT NEW SPRINKLER MAIN, WITH SUPERVISED BUTTERFLY VALVE, CHECK VALVE AND FLOOR CONTROL RISER MANIFOLD ASSEMBLY, CONSISTING OF FLOW SWITCH, TEST AND DRAIN FITTING AND PRESSURE GAUGE, TO NEW STANDPIPE PIPING.
  - ③ THIS ROOM HAS EXPOSED STRUCTURE AND MULTIPLE EXPOSED MECHANICAL, ELECTRICAL AND PLUMBING INSTALLATIONS. SPRINKLER CONTRACTOR TO COORDINATE WITH ALL NEW DUCTWORK, PIPING, CONDUIT AND EQUIPMENT TO ENSURE THAT NO OBSTRUCTION TO SPRINKLER SPRAY PATTERNS OCCUR. PROVIDE ADDITIONAL SPRINKLERS AS REQUIRED TO ACHIEVE COVERAGE IN ACCORDANCE WITH NFPA 13.
  - ④ DISCONNECT EXISTING STANDPIPE AND REVISE PIPING TO RELOCATE RISER TO FLOOR ABOVE AS INDICATED. CONNECT NEW STANDPIPE PIPING TO REVISED PIPING.

**BASEMENT SPRINKLER PIPING PLAN - WING B**  
SCALE: 1/8" = 1'-0"

FINAL DESIGN (100%)  
FULLY SPRINKLERED

FFA #7451

<b>CONSULTANTS:</b>  Quality Service Since 1944 FRIEDMAN FISHER ASSOCIATES, P.C. CONSULTING ENGINEERS 22 Aviation Road, Albany, New York 12206 TEL (518) 458-7040 FAX (518) 458-7043 mailto:info@friedmanfisher.com   EBERLIN AND EBERLIN, P.C. 247 ROUTE 100 SUITE 1003 SOMERS NEW YORK 10589 CONSULTING ENGINEERS, PLANNERS, LANDSCAPE ARCHITECTS 914.232.8421 PHONE 914.232.6827 FAX		 RYAN-BIGGS ASSOCIATES, P.C. 291 River Street p 518.272.6266 Troy, NY 12180 f 518.272.4467 www.ryanbiggs.com		 <b>ARCHITECT/ENGINEERS:</b>  <b>Hyman Hayes</b> ASSOCIATES 6 WENDLEY COURT, ALBANY, NEW YORK 12205 (518) 452-3470 (518) 452-3783 Fax HHA Proj. 10046		<b>Drawing Title</b> <b>FIRE PROTECTION:</b> <b>BASEMENT SPRINKLER PIPING PLAN - WING B</b>  <b>Approved Project Director</b>		<b>Project Title</b> <b>NEW EMERGENCY DEPARTMENT</b> <b>Stratton VA Medical Center</b>  <b>Location</b> <b>Albany, New York</b>  <b>Date</b> JULY 24, 2012 <b>Checked</b> BJF <b>Drawn</b> GJF		<b>Project Number</b> <b>VA 528-809</b> <b>Building Number</b> <b>95</b>  <b>Drawing Number</b> <b>FP1.1</b> <b>Dwg. 87 of 115</b>		<b>Office of Construction and Facilities Management</b> 	
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