

FIRE PROTECTION ZONE SCHEDULE		
ITEMS	DESCRIPTION / LOCATION	APPROXIMATE AREA SERVED (SQ.FT.)
1	FIRST FLOOR LOGISTICS/SPS AREA	7,236
NOTES:		

**SPRINKLER NOTE**

SPRINKLER PLANS AS SHOWN ARE FOR BIDDING PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS TO OBTAIN A CURRENT WATER FLOW TEST AND PROVIDE HYDRAULIC CALCULATIONS FOR SYSTEM PIPE SIZING IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13. THE SPRINKLER CONTRACTOR IS TO SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATION, PIPING LAYOUT AND SIZING, SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A NICET LEVEL IV DESIGNER OR A PROFESSIONAL ENGINEER.

**FIRE PUMP TEST DATA**  
TEST DATE: OCTOBER 2021

<b>FLOW RATE - 0 GPM:</b>	
- DISCHARGE PRESSURE .....	115 PSI
<b>FLOW RATE - 750 GPM:</b>	
- DISCHARGE PRESSURE .....	110 PSI
<b>FLOW RATE - 1,125 GPM:</b>	
- DISCHARGE PRESSURE .....	95 PSI

**SPRINKLER SYSTEMS HAZARD CLASSIFICATIONS**

- DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS. OCCUPANCY CLASSIFICATION.....LIGHT HAZARD  
DESIGN DENSITY.....0.10 GPM/S.F.  
REMOTE HYDRAULIC AREA.....1,500 S.F.  
MAXIMUM SPRINKLER COVERAGE.....225 S.F.  
OUTSIDE HOSE STREAM.....100 GPM  
DURATION OF SUPPLY.....30 MINUTES
- DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS. OCCUPANCY CLASSIFICATION.....ORDINARY HAZARD, GROUP 1  
DESIGN DENSITY.....0.15 GPM/S.F.  
REMOTE HYDRAULIC AREA.....1,500 S.F.  
MAXIMUM SPRINKLER COVERAGE.....190 S.F.  
OUTSIDE HOSE STREAM.....250 GPM  
DURATION OF SUPPLY.....60-90 MINUTES
- DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS. OCCUPANCY CLASSIFICATION.....ORDINARY HAZARD, GROUP 2  
DESIGN DENSITY.....0.20 GPM/S.F.  
REMOTE HYDRAULIC AREA.....1,500 S.F.  
MAXIMUM SPRINKLER COVERAGE.....130 S.F.  
OUTSIDE HOSE STREAM.....250 GPM  
DURATION OF SUPPLY.....60-90 MINUTES
- DENOTES AREA NOT IN PROJECT SCOPE

**FIRE PROTECTION GENERAL NOTES**

- DESIGN CRITERIA:**  
REFER TO THE FOLLOWING PUBLICATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FOR THE DESIGN OF THE FIRE PROTECTION SYSTEM ON THIS PROJECT:
- NFPA 13, 2019 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
- GENERAL NOTES:**
- DESIGN THE SPRINKLER SYSTEM THROUGHOUT PROPOSED SCOPE OF WORK IN ACCORDANCE WITH NFPA 13.
  - ALL PIPING, VALVE, SPRINKLER HEADS, HANGERS, ETC. SHALL BE UL LISTED AND FM APPROVED.
  - DESIGN SHALL BE PERFORMED BY NICET LEVEL IV DESIGNER OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS AND SHALL BE SIGNED AND SEALED AS APPLICABLE. PROVIDE FIRE PROTECTION SYSTEM DESIGN AND SHOP DRAWINGS, MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
  - HYDRAULICALLY CALCULATE THE SYSTEM SIZING IN ACCORDANCE WITH NFPA 13.
  - DESIGN THE SYSTEM USING SPRINKLER HEADS THAT ARE FM APPROVED, QUICK RESPONSE TYPE, SEMI-RECESSED HEADS IN ALL AREAS, EXCEPT WHERE SPECIFICALLY PROHIBITED IN UNFINISHED AREAS WITHOUT CEILINGS. USE QUICK RESPONSE ROUGH BRASS UPRIGHT HEADS WITH FRANGIBLE GLASS ELEMENT. FLEXIBLE SPRINKLER HEADS ARE PROHIBITED.
  - ALL HEADS SHALL HAVE A K FACTOR OF 5.6 - 5.8. TEMPERATURE RATINGS OF ALL SPRINKLER HEADS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13.
  - DESIGN THE SPRINKLER SYSTEM FOR THE ENTIRE WORK AREA TO BE CLASSIFIED AS LIGHT HAZARD OCCUPANCY EXCEPT AS NOTED BY HATCHING ON THE FLOOR PLANS.
  - COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM.
  - HYDRAULIC CALCULATIONS SHALL TAKE INTO ACCOUNT ALL FITTINGS, OFFSETS, HARDWARE, DEVICES, CHARACTERISTICS AND TRIM DETERMINED NECESSARY FOR A COMPLETE SPRINKLER INSTALLATION.
  - CENTER SPRINKLER HEADS IN CEILING TILES IN AREAS WITH LAY-IN TILES AND VISUALLY ALIGN IN AREAS WITH HARD CEILINGS.
  - ELEVATIONS OF SPRINKLER PIPING AND HEADS MUST BE DETERMINED BY PROPOSED CEILING HEIGHTS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.
  - PROVIDE SEISMIC BRACING FOR ALL PIPING IN ACCORDANCE WITH NFPA 13. PROVIDE SHOP DRAWINGS OF ALL SEISMIC CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS.
  - SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING SHALL BE LOCATED AND SUPPORTED IN ACCORDANCE WITH NFPA 13.
  - TEST SPRINKLER SYSTEM, CONTROLS, PIPING, AND MONITORING IN ACCORDANCE WITH NFPA 25. SUBMIT ABOVEGROUND TEST CERTIFICATE TO A/E UPON COMPLETION OF WORK.
  - CAGES SHALL BE ADDED TO THE IT ROOMS WITH HIGHER TEMPERATURE HEADS.
  - DO NOT INTERRUPT SPRINKLER SERVICE TO OCCUPIED SPACES. NOTIFY COR NO FEWER THAN FIVE DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF SPRINKLER SERVICE. DO NOT PROCEED WITH INTERRUPTION OF SERVICE WITHOUT WRITTEN PERMISSION.
  - ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST METHODS AND PRACTICES. ANY MATERIAL WHICH DOES NOT PRESENT AN ORDERLY AND REASONABLY NEAT AND WORKMANLIKE APPEARANCE, SHALL BE REMOVED AND REPLACED WHEN SO DIRECTED BY THE VETERANS ADMINISTRATION. THE REMOVAL AND REPLACEMENT OF THIS WORK SHALL BE DONE WHEN DIRECTED IN WRITING BY THE VETERANS ADMINISTRATION AT THE CONTRACTOR'S EXPENSE.
  - INCLUDE TEMPORARY COVERAGE AND SUPPLIES SO THAT NO AREA IS LEFT IMPAIRED DURING PERIODS WHERE NO SPRINKLER WORK IS BEING PERFORMED AND ALL OCCUPIED AREAS HAVE SPRINKLER COVERAGE AT ALL TIMES. AT NO TIME MAY SPRINKLER SYSTEM AND FIRE ALARM SYSTEMS BE IMPAIRED AT THE SAME TIME. INSTALL NEW UPRIGHT HEADS DURING CONSTRUCTION WHERE CEILINGS ARE TEMPORARILY REMOVED.
  - FLEX HEADS ARE NOT ALLOWED.
  - THE HYDRAULICALLY MOST DEMANDING AREA CAN NOT BE REDUCED BY USING QUICK RESPONSE PER THE VA FIRE PROTECTION DESIGN MANUAL.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS AND LICENSES FOR THE COMPLETE INSTALLATION OF THEIR WORK.

**FIRE PROTECTION LEGEND**

PIPING SYMBOLS	MISC. SYMBOLS	ABBREVIATIONS	NOTES
FIRE PROTECTION SUPPLY PIPING FIRE PROTECTION DEMOLITION PIPING SIAMESE FIRE DEPARTMENT CONNECTION WATERFLOW DETECTOR OS&Y VALVE PLUG BACKFLOW PREVENTER Y-TYPE STRAINER Y-TYPE STRAINER WITH HOSE DRAIN VALVE FIRE PROTECTION DRAIN PRESSURE GAGE CAP ELBOW, 90° TURNED UP ELBOW, 90° TURNED DOWN ELBOW, 45° TEE TEE, OUTLET TURNED UP TEE, OUTLET TURNED DOWN CONCENTRIC REDUCER ECCENTRIC REDUCER (STRAIGHT INVERT) UNION FLEXIBLE PIPE CONNECTION ELECTRICALLY OPERATED VALVE CHECK VALVE BUTTERFLY VALVE FIRE PROTECTION COMPRESSED AIR SUPPLY	ROOM NUMBER POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK POINT BETWEEN EXISTING WORK TO REMAIN AND EXISTING WORK TO BE REMOVED HEAT DETECTOR SMOKE DETECTOR WET PIPE FIRE PROTECTION VALVE DRY PIPE FIRE PROTECTION VALVE PRE-ACTION FIRE PROTECTION VALVE FIRE DEPT HOSE VALVE W/ICAP WATER MOTOR GONG SPARE SPRINKLER CABINET FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM GRAPHIC ANNUNCIATOR PANEL	(EX), EXIST. EXISTING FLOW SWITCH TAMPER SWITCH FDV FIRE DEPARTMENT VALVE FDC FIRE DEPARTMENT CONNECTION FVC FIRE VALVE CABINET FHC FIRE HOSE CABINET MIN. MINIMUM TYP. TYPICAL U/G UNDER GROUND GPM GALLONS PER MINUTE CAP CAPACITY P.S. PRESSURE SWITCH RX REMOVE EXISTING	<ol style="list-style-type: none"> <li>SEE SHEET FX01 FOR DETAILS.</li> <li>SOME SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY NOT APPLY.</li> </ol>

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**DRAWING TITLE**  
GENERAL NOTES, SYMBOLS & LEGENDS

APPROVED

**PHASE**  
CONSTRUCTION DOCUMENTS SUBMISSION

**FULLY SPRINKLERED**

**PROJECT TITLE**  
RENOVATE SPACE FOR LOGISTICS (B-1)

**PROJECT NUMBER**  
564-24-104  
BUILDING NUMBER  
1

**LOCATION**  
FAYETTEVILLE VA MEDICAL CENTER

**ISSUE DATE**  
11 APRIL 2024

**CHECKED**  
WGG

**DRAWN**  
DM

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FX001-A

**Engineering Service**

VETERANS HEALTH CARE SYSTEM OF THE OZARKS

**VA** U.S. Department of Veterans Affairs