

FIRE PROTECTION PLAN
GRAPHIC SCALE SPRINKLER NUMERIC SCALE
0 4 8 16'
SCALE: 1/8" = 1'-0"

GENERAL NOTES

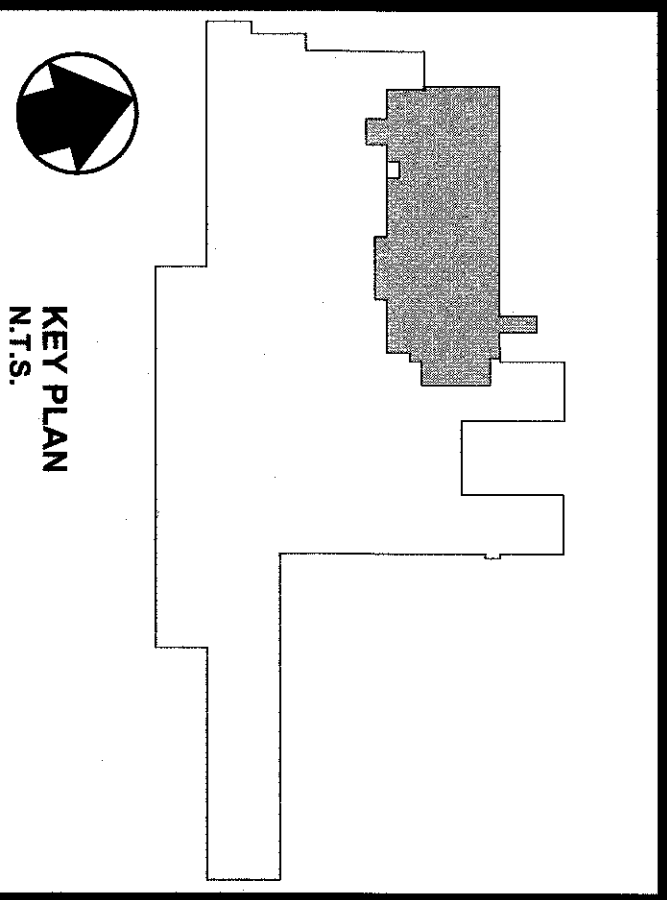
1. DESIGN DRAWINGS ARE DIAGRAMMATIC AND APPROXIMATE, ONLY FOR PIPE SIZING, GENERAL ROUTING, LAYOUT AND BASIC SYSTEM CONFIGURATION.
2. THE CONTRACTOR SHALL PROVIDE A COMPLETE SHOP DRAWING SUBMITTAL INCLUDING ALL INFORMATION REQUIRED BY NFPA 13, SECTION 22.1.3 (2010 EDITION).
3. THE CONTRACTOR SHALL FIELD VERIFY ALL PIPE ROUTING PRIOR TO SUBMITTAL OF SHOP DRAWINGS OR COMMENCING SYSTEM FABRICATION.
4. THE CONTRACTOR IS TO PROVIDE A COMPLETE AS-BUILT DRAWING SUBMITTAL, INCLUDING ALL PIPE LENGTHS, ELEVATIONS, HANGER LOCATIONS, HANGER DETAILS, AND OFFSETS AS COORDINATED WITH THE BUILDING STRUCTURE AND OTHER BUILDING TRADES. THE AS-BUILT DRAWINGS SHALL BE 20'-6".
5. ANY MATERIALS AND ACCESSORIES NECESSARY SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2010 EDITION).
6. PIPING SHALL BE RUN ON A LEVEL HORIZONTAL PLANE. IF TRAPPED PIPING OVER 5 GALLONS OCCURS, A MINIMUM OF A 3/4" BALL VALVE SHALL BE PROVIDED.
7. ALL SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS PUT FORTH BY NFPA 13 (2010 EDITION). THE VA DESIGN STANDARDS, THE PROJECT TECHNICAL SPECIFICATIONS, AND ALL APPLICABLE LOCAL AND STATE LAWS AND REGULATIONS.
8. ALL ABOVE GROUND PIPING 2"-1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH ROLL GROOVED ENDS AND GROOVED FITTINGS UNLESS NOTED OTHERWISE.
9. ALL ABOVE GROUND PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 WITH THREADED CAST IRON FITTINGS.
10. ALL SPRINKLERS SHALL BE UL LISTED, FM APPROVED, QUICK RESPONSE, SEMI-RECESSED, CHROME FINISH, UNLESS NOTED OTHERWISE. REFERENCE SPECIFICATIONS FOR SPECIFIC SPRINKLER APPLICATIONS AND TEMPERATURES.
11. SPRINKLERS IN THE TRANSFORMER ROOM SHALL BE STANDARD RESPONSE.
12. ALL CONTROL VALVES SHALL BE SUPERVISED BY THE BUILDING FIRE ALARM SYSTEM.
13. ALL VALVES (BRANS, INSPECTOR'S TEST, CONTROL) SHALL BE IDENTIFIED AS REQUIRED BY NFPA 13 (2010 EDITION).
14. ALL VALVES AND WATERFLOW SWITCHES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.
15. SPRINKLER PROTECTION SHALL BE PROVIDED BENEATH ALL CONTINUOUS OBSTRUCTIONS 4'-0" AND GREATER IN WIDTH AS REQUIRED BY NFPA 13 (2010 EDITION).
16. SOME WORK UNDER THIS CONTRACT WILL REQUIRE WORK DUTIES TO BE PERFORMED AFTER NORMAL WORKING HOURS. DETERMINATION OF SPECIFIC WORK DUTIES TO BE PERFORMED AFTER HOURS SHALL BE MADE BY VA STAFF AT THEIR CONVENIENCE. POSSIBLE WORK REQUIRING AFTER HOURS APPROVAL INCLUDES, BUT IS NOT LIMITED TO: POWER OUTAGES AND DISRUPTION OF SERVICES, EXTREME NOISE AND/OR VIBRATION, CUTTING AND PATCHING OF CONCRETE, AND DELIVERIES OF EQUIPMENT.

KEYNOTES

1. CONNECT TO EXISTING STANDPIPE AND PROVIDE NEW WET SPRINKLER ZONE CONTROL STATION COMPLETE WITH WATERFLOW SWITCH, INSPECTOR'S TEST AND DRAIN VALVE TO APPROVED LOCATION. FLOW SWITCH SHALL BE INTEGRATED INTO THE BUILDING FIRE ALARM SYSTEM.
2. EXISTING FIRE HOSE VALVE TO REMAIN.
3. RELOCATE EXISTING FIRE HYDRANT AND ISOLATION VALVE AS SHOWN.
4. EXISTING 6" FEED MAIN TO REMAIN.
5. FEED MAIN FROM EXISTENT AND FIRE PUMP. SEE PP.1 FOR CONTINUATION AND LATEST FLOW TEST REPORT FOR EXISTING FIRE PUMP.
6. REMOVE AND INSTALL A NEW ANTIFREEZE SYSTEM TO PROTECT THE VARIOUS ENCLOSURE, ANTIFREEZE SYSTEM SHALL BE COMPLETE WITH ISOLATION VALVES, AND RPZ, AS WELL AS OTHER COMPONENTS REQUIRED BY NFPA 13. INSTALL AIR GAP ASSEMBLY AT RPZ AND PIPE DISCHARGE TO EXTERIOR.

- ORDINARY HAZARD GROUP 1
0.15 GPM/SQ FT OVER 1500 SQ FT
- ORDINARY HAZARD GROUP 2
0.20 GPM/SQ FT OVER 1500 SQ FT
- INDICATES AREA TO BE SPRINKLER ZONE
- INDICATES AREA TO BE SPRINKLER ZONE

- INDICATES EXISTING ZONE ADDED/RELOCATED AS REQUIRED.
- INDICATES EXISTING ZONE ADDED/RELOCATED AS REQUIRED.



FULLY SPRINKLERED BUILDING
BID DOCUMENTS

REVISIONS	DATE
1	
2	
3	
4	
5	
6	
7	
8	



Department of
Veterans Affairs

UPGRADE SPD AND SECURITY DOCK
PROJECT: 646-367
**VA PITTSBURGH
HEALTHCARE SYSTEM**
UNIVERSITY DRIVE C
PITTSBURGH, PENNSYLVANIA 15240

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