



- ① CONNECT TO EXISTING TWELVE (12) INCH WATER MAIN THIS VICINITY. CONTRACTOR SHALL PAY ALL COSTS AND COMPLY WITH ALL REQUIREMENTS OF WATER SUPPLIER. EXTEND EIGHT (8) INCH C900 DR18 PVC PIPE TO SPRINKLER RISER ROOM. PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION. ROUTE PIPE TO AVOID CONFLICTS WITH ALL EQUIPMENT, STRUCTURES, AND UNDERGROUND UTILITIES. MINIMUM BURIAL DEPTH FORTY TWO (42) INCHES.
- ② INSULATED HEATED ALUMINUM ENCLOSURE (ASSE CLASS I) FOR FIRELINE DOUBLE DETECTOR CHECK VALVE ASSEMBLY AND DOMESTIC WATER BACKFLOW ASSEMBLY. SIZE BOX TO HOLD BOTH BACK FLOWS WITH PROPER CLEAR WORK SPACE.
- ③ EIGHT (8) INCH DOUBLE DETECTOR CHECK VALVE ASSEMBLY IN INSULATED HEATED ENCLOSURE.
- ④ TWO (2) WAY FREESTANDING FIRE DEPARTMENT CONNECTION.
- ⑤ CHECK VALVE WITH AUTOMATIC DRIP VALVE LOCATED ON FDC LINE AT LOW POINT. PROVIDE VALVE BOX MARKED "FIRE VALVE" AT VALVE LOCATION.
- ⑥ CONTINUED ON FIRE PROTECTION SHEET PP-101

PRELIMINARY FLOW TEST INFORMATION:
DATE: 12-05-2025
STATIC: 75 PSI
RESIDUAL: 59 PSI
FLOW RATE: 995 GPM

1. FP SHEETS INTENDED AS CONCEPTUAL DRAWINGS AND ARE FOR INFORMATION ONLY TO SHOW POTENTIAL SYSTEM ARRANGEMENTS. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND FIELD VERIFY ALL INFORMATION CONTAINED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS, INCLUDING BUT NOT LIMITED TO NFPA AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
2. ALL ABOVE GROUND PIPE FOR PROJECT WETPIPE SYSTEM 1-1/2" AND LESS IN DIAMETER IS TO BE SCHEDULE 40 BLACK STEEL AND SHALL UTILIZE CUT THREADS AND CLASS 150 MALLEABLE IRON FITTINGS. ALL PIPE GREATER THAN 1-1/2" AND LESS THAN 6" IN DIAMETER SHALL BE SCHEDULE 40 BLACK STEEL AND SHALL UTILIZE ROLLED GROOVES AND LISTED GROOVED END FITTINGS WITH RUBBER GASKETS. LISTED WELDED FITTINGS MAY ALSO BE UTILIZED. PIPE 6" AND GREATER IN DIAMETER SHALL BE SCHEDULE 10 BLACK STEEL PIPE AND SHALL USE ROLLED GROOVES AND LISTED ROLLED GROOVE FITTINGS WITH RUBBER GASKETS.
3. EXCEPT WHERE NOTED, SPRINKLER HEADS ARE TO BE LOCATED IN CENTER OF CEILING TILES.
4. PROVIDE SPARE HEADS AND WRENCHES IN CABINET MOUNTED ADJACENT TO SPRINKLER ENTRY AS PER NFPA 13 2016 EDITION.
5. RUN SPRINKLER PIPE AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH DUCTWORK, ACCESS TO MECHANICAL EQUIPMENT, ETC. PROVIDE COORDINATION DRAWINGS SHOWING ANY POTENTIAL CONFLICT WITH OTHER CONSTRUCTION INSTALLATIONS. SPRINKLER INSTALLATIONS THAT PREVENT THE INSTALLATION OF OTHER UTILITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE RELOCATED AT THE SPRINKLER CONTRACTORS EXPENSE.
6. ALL STORAGE SHALL BE MAINTAINED AT 18 INCHES OR GREATER BELOW CEILING.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
8. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL FLOOR PLANS FOR FLOOR PLAN LAYOUTS. PRIOR TO SUBMISSION OF SHOP DRAWINGS, REVIEW ARCHITECTURAL LAYOUTS. FURNISH HEADS AS REQUIRED BY ARCHITECTURAL SHEETS, BY NFPA 13 2016 EDITION, AND AS SHOWN ON FIRE PROTECTION PLANS FOR A COMPLETE SYSTEM FULLY COVERING WORK AREAS IDENTIFIED ON ARCHITECTURAL DRAWINGS. COORDINATE EXACT HEAD LOCATIONS WITH JOB CONDITIONS, STRUCTURAL, PIPING, CONDUIT, ETC. AS WELL AS FINAL REFLECTED CEILING LAYOUTS. COORDINATE WITH OTHER CONTRACTORS THROUGH GENERAL CONTRACTOR WHERE CONFLICTS ARISE BETWEEN DUCTWORK OR GRAVITY PIPING SYSTEMS. OFFSET SPRINKLER PIPING AS REQUIRED FOR CONFLICT RESOLUTION.
9. PROVIDE UPRIGHT QUICK RESPONSE HEADS WITH WIRE GUARDS BENEATH ALL EXPOSED DUCTWORK OR OBSTRUCTIONS FOUR (4) FEET OR GREATER IN WIDTH.
10. FOR DESIGN PURPOSES, THE SYSTEM DESIGNER SHALL REDUCE THE AVAILABLE FLOW IN GPM BY TEN (10) PERCENT AND THE STATIC AND RESIDUAL PRESSURES BY 5 PSI BELOW THAT OBTAINED DURING FLOW TEST. EXAMPLE, 1,000 GPM FLOW WOULD BE 900 GPM, 52 PSI STATIC IS 47 PSI FOR DESIGN PURPOSES AND 41 PSI RESIDUAL WOULD BE 36 PSI. UTILIZE ADJUSTED PRESSURES FOR HYDRAULIC DESIGN.
11. THE BUILDING IS TO BE FULLY SPRINKLED, INCLUDING ANY AREAS WITH CONCEALED COMBUSTIBLE CONSTRUCTION.
12. ALL PIPE, FITTINGS, VALVES, ETC. SHALL BE LISTED FOR A MINIMUM OF 175 PSI.
13. PROVIDE 24V. ELECTRIC SPRINKLER WATERFLOW ALARM BELL TO INDICATE SPRINKLER FLOW. BELL ACTIVATED BY FIRE ALARM PANEL ON SPRINKLER FLOW.
14. PROVIDE AUXILIARY DRAINS AS REQUIRED BY NFPA 13 2016 EDITION TO DRAIN TRAPPED SECTIONS OF PIPING. EXTEND DRAINS TO EXTERIOR AND TERMINATE AT GRADE.
15. ALL SPRINKLER HEADS IN ELEC./TEL. ROOMS SHALL BE 200 DEGREE FAHRENHEIT RATED.
16. CONTRACTOR SHALL PROVIDE AND INSTALL, SPRINKLER HEADS, PIPING, VALVES, HANGERS, ETC. AS REQUIRED FOR COMPLIANCE WITH NFPA 13 2016 EDITION AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
17. PROVIDE FLOW AND TAMPER SWITCHES AS REQUIRED TO ELECTRONICALLY SUPERVISE SYSTEM. WET PIPE SYSTEMS AND ALARM PRESSURE SWITCHES, HIGH LOW AIR PRESSURE SWITCHES AND TAMPER SWITCHES AS REQUIRED TO ELECTRONICALLY SUPERVISE DRY PIPE AND PREACTION SYSTEMS.
18. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PREPARATION OF FIRE PROTECTION SHOP DRAWINGS, CALCULATIONS, AND FEES AS REQUIRED FOR FINAL APPROVAL OF SYSTEM BY ALL AUTHORITIES HAVING JURISDICTION.
19. DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF NFPA 13 2016 EDITION.
20. EXCEPT WHERE NOTED, ALL SPRINKLER HEADS SHALL BE LISTED QUICK RESPONSE TYPE.
21. CONNECT ALL DRAINS TO COMMON HEADER AND TERMINATE THROUGH WALL 6"(150) ABOVE GRADE.
22. UNDERGROUND FIRE LINE PIPE SHALL BE C900 DR 18 PVC PIPE TO LISTED STAINLESS STEEL "IN BUILDING RISER".
23. CONTRACTOR SHALL INSTALL A POTTER MODEL "P4V" AUTOMATIC AIR RELEASE VALVE AT THE HIGH POINTS OF THE WET PIPE SPRINKLER SYSTEM. (MINIMUM OF ONE (1) PER RISER). CONTRACTOR SHALL ALSO INCLUDE ONE (1) POTTER RBVS-T BALL VALVE WITH TAMPER SWITCH IN LINE TO THE AUTOMATIC AIR RELEASE VALVE. PIPE DISCHARGE TO EXTERIOR OR FLOOR DRAIN IN MECHANICAL ROOM.
24. PROVIDE PROPER NUMBER OF WET PIPE RISERS SO THAT THE MAXIMUM FLOOR AREA PROTECTED BY ONE SPRINKLER RISER DOES NOT EXCEED THE CRITERIA OF NFPA 13.
25. ALL PENDANT AND DRY PENDANT SPRINKLER HEADS IN AREAS WITH CEILINGS SHALL BE CONCEALED HEADS WITH FLAT COVER PLATES.
26. CONTRACTOR SHALL NOT USE BEAM CLAMPS TO HANG PIPE FROM METAL PURLINGS. USE SAMMY SUPER SCREW ONLY INSTALLED ON SIDE OF PURLING.
27. SPRINKLER CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ON ALL ELECTRICAL EQUIPMENT AND PANEL LOCATIONS, AS TO AVOID ROUTING SPRINKLER PIPING IN CLEAR WORK SPACE.
28. "PROVIDE" SHALL MEAN "FURNISH AND INSTALL" WHERE USED.

Project No. 25326

NEW CONSTRUCTION
FORD PRO
FOR
MIKE WILLIS
2010 PATTON ST.


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FIRE PROTECTION
SITE PLAN