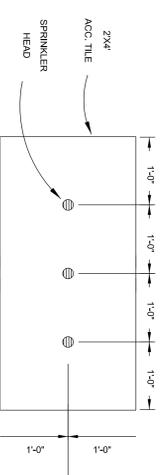
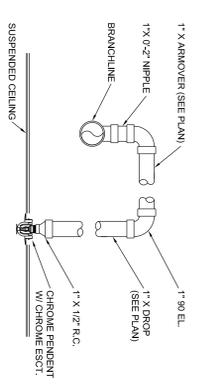


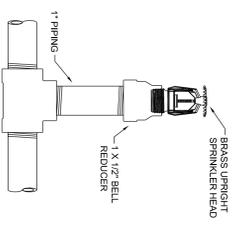
1 CENTER LINE OF TILE DETAIL  
SCALE: NONE



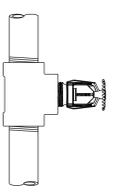
2 CENTER LINE OF TILE DETAIL  
SCALE: NONE



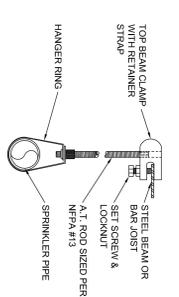
3 RETURN BEND DETAIL  
SCALE: NONE



4 UPRIGHT SPRINKLER HEAD ON SPRIG DETAIL  
SCALE: NONE



5 UPRIGHT SPRINKLER HEAD DETAIL  
SCALE: NONE



6 TOP BEAM CLAMP HANGER DETAIL  
SCALE: NONE

**FIRE PROTECTION GENERAL NOTES:**

1. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH A PRELIMINARY PUNCH LIST AND DRAWING PRIOR TO COMPLETION OF CONSTRUCTION. ALL ITEMS NOTED SHALL BE ADDRESS BY THE CONTRACTOR PRIOR TO REDISSUING PUNCH LIST BY THE ENGINEER OF RECORD.
2. ALL PIPE, DEVICES, AND INSTALLATION SHALL FULLY COMPLY WITH NFPA 13 AND ALL REQUIRED AUTHORITIES HAVING JURISDICTION.
3. REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL RENOVATION ITEMS SUCH AS CEILINGS, WALLS AND AREAS OF WORK.
5. PROVIDE CONNECTIONS TO THE EXISTING FIRE SPRINKLER SYSTEMS IN ACCORDANCE WITH RENOVATIONS TO THE SPACE. PROVIDE NEW SPRINKLER HEADS, PIPES, FITTINGS, HANGERS AND APPURTENANCES AS REQUIRED. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR SPACING THE AREA OF WORK TO DETERMINE THE SCOPE OF DEMOLITION WORK REQUIRED.
6. SPRINKLER COVERAGE SHALL NOT EXCEED 225 SQUARE FEET PER HEAD FOR LIGHT HAZARD AREAS. SPRINKLER COVERAGE SHALL NOT EXCEED 130 SQUARE FEET PER HEAD FOR ORDINARY HAZARD AREAS.
7. FIRE PROTECTION SYSTEMS, PIPING, VALVES, AND APPURTENANCES INDICATED ON THE DRAWINGS ARE DIAGNOSTIC ONLY. IN THAT ALL FITTINGS AND OFFSETS MAY NOT BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EQUIPMENT SELECTIONS, PIPE SIZES, ETC. FOR CODE COMPLIANCE. FINAL CODE COMPLIANCE AND PLUMBING (M.E.P.) CONDITIONS, EXISTING OR PLANNED, PRIOR TO BID. THERE IS VERY LIMITED SPACE AVAILABLE FOR PIPE ROUTING.
8. FIRE PROTECTION SHOP DRAWINGS SHALL INCLUDE COMPLETE SELECTED CEILING PLANS INDICATING LOCATION OF EACH SPRINKLER HEAD, AS WELL AS PIPING LAYOUTS. PROVIDE ADDITIONAL SPRINKLER HEADS (OVER CODE MINIMUM QUANTITIES) IF REQUESTED BY ARCHITECT TO OBTAIN SYMMETRICAL CEILING LAYOUTS.
9. FIRE PROTECTION SYSTEM SHALL BE COMPLETE WITH SPRINKLER PIPING AND HEADS, AND APPURTENANCES AS REQUIRED BY NFPA AND AUTHORITIES HAVING JURISDICTION. PIPE SIZES SHALL BE ESTABLISHED BY THE FIRE PROTECTION CONTRACTOR.
10. GENERAL CONTRACTOR SHALL CONDUCT A COORDINATION MEETING WITH SUBCONTRACTORS TO ESTABLISH CLEARANCE REQUIREMENTS NEEDED FOR M.E.P. WORK PRIOR TO FABRICATION OF SPRINKLER SYSTEM. ANY RELOCATION OF FIRE SPRINKLER SYSTEM REQUIRED FOR PROPER INSTALLATION OF M.E.P. SYSTEMS SHALL BE AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.
11. FIRE PROTECTION CONTRACTOR SHALL BASE BID ON CAREFUL COORDINATION OF EXISTING AND NEW MECHANICAL, DUCT, MECHANICAL AND PLUMBING PIPING, ELECTRICAL AND STRUCTURAL SYSTEMS IN THE BUILDING.
12. HYDRAULIC CALCULATIONS SHALL BE BASED ON A WATER FLOW TEST OBTAINED FROM THE CITY OF MEMPHIS BY THE FIRE PROTECTION CONTRACTOR. CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS TO THE ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 PSI SAFETY FACTOR FOR ALL HYDRAULIC CALCULATIONS. PIPE SIZES SHALL BE ESTABLISHED BY THE FIRE PROTECTION CONTRACTOR. NOTE: AVOID SYSTEM PRESSURES EXCEEDING 175 PSI.
13. AFTER THE RENOVATIONS ARE COMPLETE, THE FIRE PROTECTION CONTRACTOR IS REQUIRED TO PERFORM A PENETRANT TEST ON THE SPRINKLER SYSTEM. THE TEST SHALL BE PERFORMED HYDROSTATICALLY AT 150 PSI FOR 24 HOURS. REPAIR SYSTEM WITH NO VISIBLE LEAKAGE. THE CONTRACTOR SHALL CORRECT THESE CONDITIONS WITH THE OWNER. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO PERFORM HIS WORK AS EXPEDITIOUSLY AS POSSIBLE IN ORDER TO MINIMIZE THE LENGTH OF TIME THE SYSTEM IS SHUT DOWN.
14. FIRE PROTECTION SYSTEM SHALL INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM. REFER TO ELECTRICAL.
15. ALL CONTROL VALVES SHALL HAVE ELECTRONIC SUPERVISION.
16. SPECIAL CONSIDERATION SHALL BE GIVEN TO AREAS THROUGHOUT THE RENOVATED AREA SUCH AS PROPER SORTS, BASED, CEILINGS AND LIGHTING SORTS THAT NECESSITATE ADDITIONAL SPRINKLER HEADS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS AND BUILDING DETAILS.
17. ALL NEW SPRINKLER HEADS FOR LIGHT HAZARD AND ALL STANDARD SPRAY SPRINKLER HEADS FOR ORDINARY HAZARD SHALL BE QUICK RESPONSE.
18. ALL NEW CEILING MOUNTED SPRINKLER HEADS SHALL BE CHROME WITH CHROME RECESSED ESCUTCHEONS, UNLESS NOTED OTHERWISE ON THE PROTECTION PLANS OR SPECIFICATIONS.
19. ALL NEW SPRINKLER HEADS INSTALLED IN EXPOSED STRUCTURE SHALL BE BRASS UPRIGHT, UNLESS NOTED OTHERWISE ON THE PROTECTION PLANS OR SPECIFICATIONS.
20. ALL CEILING MOUNTED SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING TILES.
21. PROVIDE AUXILIARY DRAINS FOR ALL TRAPPED PIPING SECTIONS IN ACCORDANCE WITH NFPA 13.
22. INSTALL PIPING HORIZONTALLY AND AT RIGHT ANGLES TO WALLS AND CEILINGS.
23. ALL NEW GROOVED PIPING SHALL BE BLACK SCHEDULE 40 OR BLACK SCHEDULE 40 WITH GROOVED AND WELDED OUTLETS, UNLESS NOTED OTHERWISE. FITTINGS AND COUPLINGS SHALL BE STANDARD BLACK GRADE.
24. ALL NEW THREADED PIPING SHALL BE BLACK SCHEDULE 40, UNLESS NOTED OTHERWISE. FITTINGS SHALL BE STANDARD BLACK GRADE.
25. ALTERNATIVE STEEL PIPE SCHEDULES ALLOWED BY NFPA 13 ARE NOT ACCEPTABLE ON THIS PROJECT.
26. CPVC PIPING IS NOT ALLOWED ON THIS PROJECT.
27. FIRE PROTECTION CONTRACTOR SHALL PROVIDE PROTECTION FOR SPRINKLER HEADS IN AREAS WHERE THE CEILING AND SURROUNDING AREAS ARE TO BE PAINTED. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SPRINKLER PROTECTION AFTER PAINTING WORK IS COMPLETE. ANY SPRINKLER HEAD WITH PAINT OR TEXTURE OVERSPRAY SHALL BE REPLACED BY THE FIRE PROTECTION CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
28. PROVIDE ACCESS PANELS WHERE NECESSARY TO ACCESS FIRE PROTECTION VALVES AND EQUIPMENT FOR TESTING, MAINTENANCE, INSPECTION OR DRAINAGE. ACCESS PANELS SHALL BE RATED TO MATCH THE WALL OR CEILING IN WHICH THEY ARE INSTALLED AND TO BE OF SUFFICIENT SIZE TO FACILITATE WORK, REPAIR OR REPLACEMENT. ACCESS PANELS SHALL BE PROVIDED BY THE PROTECTION CONTRACTOR.
29. PROVIDE HEAD GUARDS ON ALL SPRINKLER HEADS AT OR BELOW AN ELEVATION OF 7'-2" AFF. OR THAT OTHERWISE MAY BE SUBJECT TO MECHANICAL DAMAGE, SUCH AS IN THE REPAIR OF WALLS.
30. FIRE PROTECTION CONTRACTOR SHALL ENSURE ALL CONNECTIONS TO THE EXISTING SPRINKLER SYSTEM DURING A SINGLE SHUT DOWN OF THE SPRINKLER SYSTEM. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SPRINKLER PROTECTION AFTER PAINTING WORK IS COMPLETE. ANY SPRINKLER HEAD WITH PAINT OR OVERNIGHT HOURS, FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE WATCH, EXCEPTON: IF THE OWNER SPECIFICALLY ALLOWS THE SHUT DOWN TO A PREDEFINED TIME AND ACCEPTED TIME FRAME, HOWEVER, IT SHALL IN NO WAY EXTEND INTO WEEKENDS OR HOLIDAYS.
31. THE RE-USE OF EXISTING SPRINKLER SYSTEM COMPONENTS IS ACCEPTABLE, WITH THE EXCEPTION OF SPRINKLER HEADS.
32. IF NEW WALL LOCATIONS CREATE A SITUATION OF OVER SPACING FOR THE ADJACENT EXISTING NONRENOVATED AREAS, REMOVE EXISTING SPRINKLER COVERAGE IN NON-RENOVATED AREAS TO BRING THESE AREAS INTO COMPLIANCE WITH NFPA SPACING RULES FOR THE GIVEN OCCUPANCY HAZARD.
33. EXISTING PIPE SIZES (AS PER NUMBER OF SPRINKLER HEADS SUPPLIED PER PIPE SIZE) SHALL NOT BE EXCEEDED. NO MORE THAN ONE (1) SPRINKLER HEAD SHALL BE SUPPLIED FROM AN EXISTING 1/2" SPRINKLER OUTLET, NO MORE THAN TWO (2) SPRINKLER HEADS SHALL BE SUPPLIED FROM AN EXISTING 1" SPRINKLER OUTLET. REMOVE AND PLUG OUTLETS FOR ALL EXISTING SPRINKLER HEAD CONNECTIONS NOT REUSED.
34. REMOVE ALL EXISTING FIRE SPRINKLER PIPING, FITTINGS AND HANGERS THAT ARE NO LONGER USEFUL TO THE FIRE SPRINKLER SYSTEM AT TIME OF COMPLETION. THE OWNER REMAINS RESPONSIBLE FOR DISPOSAL OF ALL EXISTING SPRINKLER PIPING.
35. REPAIR ALL HOLES IN WALLS, FLOORS, AND CEILINGS AND MANTAIN REQUIRED FIRE RATING OF WALL AND CEILINGS.
36. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOSPITAL'S INFECTIOUS CONTROL, RISK GUIDELINES AND/OR INTERNAL LIFE SAFETY MEASURES. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA (OCCUPATIONAL SAFETY AND HEALTH) ADMINISTRATION.
37. FIRE PROTECTION PLANS SHALL BE SUBMITTED TO ALL REQUIRED LOCAL AND STATE AUTHORITIES AS WELL AS THE ARCHITECT AND ENGINEER OF RECORD.

Revisions	Date

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Approved Project Director <b>VAPACHOS PLANNING AND ENGINEERING</b>		Location <b>MEMPHIS</b>		Building Number <b>-</b>	
Date <b>10/18/17</b>	Checked <b>TN</b>	Drawing Number <b>FO.01</b>		Sheet <b>Dwg 1 of 1</b>	
Office of <b>Construction and Facilities Management</b>					