

<p align="center"><u>SPRINKLER NOTE:</u></p>	
<p>SPRINKLER PLANS AS SHOWN ARE FOR BIDDING PURPOSES ONLY. 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. CONTRACTOR IS TO SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATION, PIPING LAYOUT AND SIZING, SHOP DRAWINGS AND CALCULATION SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER.</p>	


NOTE:
CONTRACTOR TO CONTRACT WITH SIMPLEX/GRINNELL TO DISCONNECT THE FIRE ALARM SYSTEM BEFORE REMOVAL OF ANY FIRE ALARM DEVICES. UPON COMPLETION OF REINSTALLATION, SIMPLEX/GRINNELL WILL BE CONTRACTED TO RECONNECT THE SYSTEM AND PERFORM TESTING OF SYSTEM.

LIGHT HAZARD OCCUPANCY	ORDINARY HAZARD GROUP 1 OCCUPANCY
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> DESIGN DENSITY.....0.10 GPM/SQ. FT. HYDRAULICALLY MOST DEMANDING AREA.....1,500 SQ. FT. SPRINKLER ORIFICE SIZE.....1/2" DURATION OF SUPPLY.....30 MIN. MAXIMUM COVERAGE/SPRINKLER HEAD.....225 SQ. FT. </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> DESIGN DENSITY.....0.15 GPM/SQ. FT. HYDRAULICALLY MOST DEMANDING AREA.....1,500 SQ. FT. SPRINKLER ORIFICE SIZE.....1/2" DURATION OF SUPPLY.....60 – 90 MIN. MAXIMUM COVERAGE/SPRINKLER HEAD.....130 SQ. FT. </div>
<p><u>DESIGN CRITERIA</u></p> <p>THE FOLLOWING PUBLICATIONS AND AUTHORITIES HAVING JURISDICTION SHALL BE REFERENCED FOR THE DESIGN OF THE FIRE PROTECTION SYSTEM ON THIS PROJECT:</p> <ol style="list-style-type: none"> 1. NFPA 13, VERSION 2010 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2. NFPA 14, VERSION 2010 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS. 3. NFPA 291, 2010 – RECOMMENDED PRACTICE FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS 	
<p><u>GENERAL NOTES:</u></p> <ol style="list-style-type: none"> 1. THE SPRINKLER HEAD LAYOUT THROUGHOUT PROPOSED SCOPE OF WORK SHALL BE BASED ON THE LATEST EDITION OF NFPA 13. 2. THE NEW SPRINKLER SYSTEM SHALL BE SIZED IN ACCORDANCE WITH NFPA 13 AND SHALL BE HYDRAULICALLY CALCULATED TO MEET THE REQUIREMENTS OF THE NFPA, AND ALL LOCAL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FLOW TEST DATA TO PERFORM AS A BASIS OF THEIR CALCULATIONS. 3. SPRINKLER HEADS SHALL BE QUICK RESPONSE CHROME-PLATED RECESSED HEADS, WITH FRANGIBLE GLASS ELEMENT IN ALL SUSPENDED CEILING APPLICATIONS. 4. ALL UNFINISHED AREAS WITHOUT CEILING SHALL BE EQUIPPED WITH QUICK RESPONSE ROUGH BRASS UPRIGHT HEADS WITH FRANGIBLE GLASS ELEMENT. 5. ALL HEADS SHALL HAVE A K FACTOR OF 5.6 – 5.8. TEMPERATURE RATINGS SHALL BE 155 DEGREES F FOR ALL EXCEPT HEADS IN MECHANICAL ROOMS. 6. ENTIRE FACILITY IS CLASSIFIED AS LIGHT HAZARD, EXCEPT AS NOTED ON THE FLOOR PLAN. 7. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM. NOTIFY ARCHITECT OF ANY CONFLICTS. 8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE PROTECTION SYSTEM DESIGN AND SHOP DRAWINGS. CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE DATA LISTED IN THE CONTRACT DOCUMENTS. 9. CONCEALED PENDANT SPRINKLERS SHALL BE CENTERED IN CEILING TILES WITH LAY-IN TILES AND VISUALLY ALIGNED IN AREAS WITH HARD PLASTER CEILINGS. ALL SPRINKLERS SHALL BE FM/UL LISTED. 10. PROVIDE SEISMIC BRACING FOR ALL PIPING PER NFPA-13. PROVIDE SHOP DRAWINGS OF ALL CALCULATIONS. 11. MECHANICAL ROOMS, STORAGE ROOMS, ELECTRICAL ROOMS, ETC. SHALL BE CLASSIFIED AS ORDINARY HAZARD GROUP 1 OCCUPANCY. 12. DURING DESIGN CALCULATIONS, AN ALLOWANCE SHALL BE MADE FOR A 100 GPM HOSE STREAM. 13. THE CONTRACTOR IS TO FURNISH A SET OF HYDRAULIC CALCULATIONS THAT TAKES INTO ACCOUNT ALL FITTINGS, OFFSETS, HARDWARE, DEVICES, CHARACTERISTICS AND TRIM THAT HE/SHE MAY DETERMINE NECESSARY FOR A COMPLETE SPRINKLER INSTALLATION. 14. SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING SHALL BE PROVIDED AND LOCATED IN ACCORDANCE WITH NFPA 13 AND ALL PREVAILING CODES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM LOCATIONS FOR COMPLIANCE WITH CODE REQUIREMENTS. 15. WHEN THE PRESSURE DROP AT ANY HOSE STATION OUTLET EXCEEDS 175 PSI, AN APPROVED DEVICE SHALL BE INSTALLED AT THE OUTLET TO REDUCE THE PRESSURE AT THE OUTLET TO 100 PSI. 16. PENDANT SPRINKLERS SHALL BE CENTERED IN CEILING TILES WITH LAY-IN TILES AND VISUALLY ALIGNED IN AREAS WITH HARD PLASTER CEILING. 17. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING CURRENT FIRE FLOW TEST DATA IN CONFORMANCE WITH NFPA 291, UTILIZING A MINIMUM OF TWO FIRE HYDRANTS ON WHICH TO BASE HYDRAULIC CALCULATIONS. 18. EACH FLOOR CONTROL VALVE IS INTENDED TO CONTROL THE SPRINKLERS IN AN INDIVIDUAL SMOKE ZONE. REFER TO ARCHITECTURAL LIFE SAFETY PLAN FOR SMOKE ZONE LIMITS. 19. PROVIDE SPRINKLER PROTECTION FOR THE SCOPE OF WORK SHOWN ON THESE CONTRACT DOCUMENTS. 20. QUICK RESPONSE SPRINKLER HEADS SHALL BE USED IN AREAS WITH PATIENT ACCESS. CONCEALED HEADS SHALL BE CENTERED IN CEILING TILES AND SHALL BE WHERE THERE IS A DROP-IN CEILING. 21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE SPRINKLER SYSTEM DESIGN AND SHOP DRAWINGS. CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE DATA LISTED IN THIS SHEET, IN THE CONTRACT SPECIFICATION AND ALL STANDARDS AND ORDINANCES APPLICABLE TO THIS WORK. 22. SPRINKLERS SHALL BE CENTERED IN CEILING TILES IN AREAS WITH LAY-IN TILES AND DIMENSIONALLY ALIGNED IN AREAS WITH SMOOTH CEILINGS, UNLESS NOTED OTHERWISE. 	

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO FURNISHING AND INSTALLING A FIRE PROTECTION SYSTEM, AS INDICATED ON THE CONTRACT DRAWINGS AND/OR CALLED FOR IN THE SPECIFICATIONS.
2. MAKE CONNECTION TO THE EXISTING SYSTEM AS SHOWN ON DRAWINGS.
3. THE CONTRACTOR SHALL EXAMINE THE PREMISES AND OBSERVE CONDITIONS UNDER WHICH THE WORK SHALL BE DONE OR OTHER CIRCUMSTANCES WHICH WILL AFFECT THE COMPLETED WORK.
4. ALL FIRE PROTECTION WORK SHALL BE MADE IN ACCORDANCE WITH RULES AND REGULATIONS OF GOVERNING AUTHORITIES, THE OWNER'S INSURANCE POLICY NUMBER, AND NFPA 13. THE ENTIRE FIRE PROTECTION SYSTEM SHALL BE TESTED AND INSPECTED BY THE INSURANCE COMPANY'S REPRESENTATIVE AND THE WORK MUST BE AS APPROVED BY THEM.
5. SCHEDULE
 - a. THE CONTRACTOR SHALL SUBMIT A SCHEDULE SHOWING MAKE, TYPE, MANUFACTURER'S NAME AND TRADE DESIGNATION OF ALL PIECES OF MATERIAL AND EQUIPMENT.
 - b. THE SCHEDULE SHALL BE ACCOMPANIED BY MANUFACTURER'S SPECIFICATIONS AND SHALL GIVE DIMENSIONS, KIND OF MATERIAL, FINISH, ETC., AND SUCH OTHER DETAIL INFORMATION AS MAY BE REQUIRED TO PERMIT VERIFICATION OF THE QUALITY AND CONSTRUCTION OF THE PRODUCT.
6. WORKING PLANS
 - a. THIS CONTRACTOR SHALL PREPARE COMPLETE SHOP DRAWINGS WHICH SHALL COMPLY WITH APPLICABLE CODES. THE CONTRACTOR SHALL INCORPORATE REVIEW COMMENTS FROM THE OWNER'S INSURANCE CARRIER BEFORE SUBMITTING TO THE ARCHITECT.
7. SCOPE
THE CONTRACTOR SHALL REMOVE EXISTING SPRINKLER SYSTEM IN AREA INDICATED ON THE DRAWINGS EXCEPT WHERE OTHERWISE NOTED.
8. ALL MATERIALS, PIPING, FITTINGS, VALVES, AND APPLIANCES HEREINAFTER SPECIFIED AND THOSE WHICH ARE ESSENTIAL BUT HAVE NOT BEEN SPECIFIED SHALL BE NEW AND OF THE HIGHEST GRADE AND QUALITY, FREE FROM DEFECTS AND SUCH AS BREAKS, FLAWS, AND IMPERFECTIONS.
9. ALL APPLIANCES AND APPURTENANCES SHALL BEAR LABEL OF F.M. OR U.L.
10. THROUGH PENETRATION ASSEMBLIES SHALL BE PROVIDED AT EACH OPENING WHERE EXPOSED SPRINKLER PIPES PASS THROUGH RATED WALLS, FLOORS, AND PARTITIONS.
11. PIPE HANGERS SHALL BE OF TYPE APPROVED AND LISTED IN NFPA 13.
12. ALL HANGERS SHALL BE FASTENED BY MEANS OF BEAM CLAMPS, CONCRETE INSERTS, OR OTHER APPROVED DEVICES, INSTALLED BY THIS CONTRACTOR.
13. SPRINKLER HEADS SHALL BE AS APPROVED BY F.M. SPRAY TYPE HEADS OR ORDINARY TEMPERATURE RATING SHALL BE INSTALLED WITH THE EXCEPTION OF THOSE AT OR NEAR ULT. HEATERS OR AT ANY OTHER LOCATION WHERE ABOVE ORDINARY TEMPERATURE MAY BE ANTICIPATED. SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE CONCEALED PENDANT WITH PAINTED COVE PLATE OR AS REQUIRED BY THE OWNER. REGULAR PENDANT HEADS IN FINISHED SPACES SHALL BE CHROME PLATED WITH CHROME PLATED CEILING PLATES UNLESS OTHERWISE NOTED. NEW HEADS SHALL MATCH EXISTING.
14. PROVIDE SPRINKLER HEAD WIRE GUARDS FOR ALL SPRINKLER HEADS. HEADS SHALL BE LOCATED 7'-FEET OR LESS ABOVE THE FLOOR LEVEL.
15. ALL TESTS SHALL BE MADE BY THIS CONTRACTOR AS REQUIRED PER NFPA 13.
16. BEFORE ASKING FINAL APPROVAL OF THE AUTOMATIC SPRINKLER EQUIPMENT, THE CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT THAT THE WORK HAS BEEN COMPLETED AND TESTED IN ACCORDANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.
17. ALL MATERIALS AND DEVICES SHALL BE INSTALLED AND COMPLETED IN A FIRST-CLASS WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST MODERN METHODS AND PRACTICES. ANY MATERIAL WHICH SHALL NOT PRESENT AN ORDERLY AND REASONABLE HEAT AND/OR WORKMANLIKE APPEARANCE, SHALL BE REMOVED AND REPLACED WHEN SO DIRECTED BY THE ARCHITECT. THE REMOVAL AND REPLACEMENT OF THIS WORK SHALL BE DONE WHEN DIRECTED IN WRITING BY THE ARCHITECT, AT THE CONTRACTOR'S EXPENSE.
18. CONTRACTOR SHALL NOTIFY HOSPITAL, FIRE ALARM CONTRACTOR, AND G.C. ONE WEEK BEFORE TO ANY SHUT DOWN OR INTERRUPTIONS OF SERVICE.
19. DRAWINGS TO BE SUBMITTED FOR APPROVAL. THE WORK SHALL INCLUDE ALL COMPONENTS REQUIRED TO PROVIDE A COMPLETE SYSTEM. SPRINKLER MAINS AND BRANCHES SHALL BE RUN CONCEALED IN CEILINGS AND FURRED SPACES.
20. THIS CONTRACTOR SHALL PROVIDE LOW POINT DRAINS WHEREVER NECESSARY. HE SHALL AT ALL TIMES COOPERATE WITH ALL OTHER TRADES AS SPRINKLER WORK IS INSTALLED.
21. LONG RUNS OF PIPE SHALL BE PROVIDED WITH SUITABLE MEANS TO PERMIT FREE MOVEMENT RESULTING FROM EXPANSION AND CONTRACTION OF THE PIPE. REDUCTION IN PIPE SIZES SHALL BE MADE WITH ONE-PIECE REDUCTION FITTINGS.
22. COUPLINGS SHALL NOT BE USED EXCEPT WHERE LENGTH OF PIPE BETWEEN SPACE FITTINGS EXCEED 20'-FEET.
23. THE SPRINKLER HEAD LAYOUT THROUGHOUT PROPOSED SCOPE OF WORK SHALL BE BASED ON THE REQUIREMENTS OF NFPA.
24. SPRINKLER HEAD LAYOUTS FOR ALL AREAS NOT DEPICTED IN THESE DRAWINGS SHALL CONFORM TO THE CONTRACT DOCUMENTS AND NFPA 13.
25. THE CONTRACTOR IS TO FURNISH A SET OF HYDRAULIC CALCULATIONS THAT TAKES INTO ACCOUNT ALL FITTINGS, OFFSETS, HARDWARE, DEVICES, CHARACTERISTICS AND TRIM THAT HE/SHE MAY DETERMINE NECESSARY FOR A COMPLETE AND FIRST CLASS SPRINKLER INSTALLATION.
26. THESE ENGINEERING DRAWINGS ARE DIAGRAMMATIC. IT IS THE INTENTION OF THESE DRAWINGS TO COVER ALL WORK AND MATERIAL FOR A COMPLETE FIRST CLASS INSTALLATION. MAKE PROPER FIRE PROTECTION PIPING CONNECTIONS TO ALL ACCESSORIES AND EQUIPMENT. ALTHOUGH ALL FITTINGS AND CONNECTIONS ARE NOT SHOWN, THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING TO INCLUDE, BUT NOT LIMITED TO THE DRAIN OUTLET, WATER FLOW DETECTOR, CHECK VALVES(S), SPLIT WATER GATE AND VALVE/TAMPER SWITCHES, CONTROL VALVES, ETC., IN QUANTITIES ADEQUATE TO SATISFY THE INTENT OF THE ENGINEER'S DOCUMENTS. ANY EQUIPMENT, VALVES, ACCESSORIES AND/OR DEVICES USUALLY UTILIZED IN THIS CLASS OF WORK, BUT WHICH MAY BE NECESSARY FOR SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.
27. THE CONTRACTOR PROVIDE SPRINKLER LAYOUT, INCLUDING THE LOCATION OF UPRIGHT AND PENDANT HEADS FOR WORK SCOPE SHOWN ON THESE CONTRACT DOCUMENTS. IN ADDITION, FURNISH A SET OF HYDRAULIC CALCULATIONS THAT TAKES INTO ACCOUNT ALL FITTINGS, OFFSETS, HARDWARE, DEVICES, CHARACTERISTICS AND TRIM THAT HE/SHE MAY DETERMINE NECESSARY FOR A COMPLETE SPRINKLER INSTALLATION.
28. CORE DRILL, EXISTING MASONRY AND SHEETROCK WALLS FOR NEW PIPING, SEAL PENETRATIONS AS NECESSARY TO MAINTAIN INTEGRITY OF EXISTING WALLS.
29. ALL CUTTING, PATCHING, AND REPAINTING OF NEW PLASTER AND SHEETROCK CEILING NECESSARY FOR INSTALLATION OF NEW SYSTEMS SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
30. SPRINKLER PIPING SHOULD BE ROUTED AS HIGH AS POSSIBLE WHILE STILL COORDINATING WITH OTHER TRADES. ELEVATIONS OF SPRINKLER PIPING AND HEAD MUST BE DETERMINED BY PROPOSED CEILING HEIGHTS, REFER TO ARCHITECTURAL DRAWINGS.
31. REMOVAL AND REINSTALLATION OF LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES AS REQUIRED FOR THE NEW FIRE PROTECTION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
32. ALL MATERIALS AND ITS INSTALLATION SHALL BE IN COMPLETE COMPLIANCE WITH ALL APPLICABLE SECTIONS OF THE LATEST EDITION OF NFPA.
33. PRESSURE GAUGES SHALL BE INSTALLED ON THE INLET AND OUTLET SIDE OF EACH PRESSURE-REDUCING VALVE.
34. THE CONTROL VALVE SHOULD BE OF THE INDICATING TYPE THAT IS READILY VISIBLE TO AN OBSERVER AT FLOOR LEVEL AS TO WHETHER THE VALVE IS OPEN OR CLOSED.
35. ELECTRICAL WIRING: VERIFY THAT ALL TAMPER SWITCHES AND FLOW SWITCHES ARE CONNECTED TO A U.L. LISTED FIRE ALARM CONTROL PANEL BY THE ELECTRICAL CONTRACTOR.
36. THE FIRE PROTECTION CONTRACTOR WILL BE REQUIRED TO COORDINATE ACCEPTANCE FOR VARIATION OF EQUIPMENT LOCATION AND EQUIPMENT CONFIGURATIONS WITH THE UTILITY, THE OWNER AND THE ARCHITECT.
37. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING CHANGES IN ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
38. SUPPLY ALL SPRINKLER EQUIPMENT ACCESSORIES AS REQUIRED.
39. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING AUTOMATIC SPRINKLERS, SPARE HEADS, SENSORS, PIPE ESCUTCHEONS, DIELECTRIC UNIONS, DRIP PANS, PIPE LABELS, VALVE TAGS, SPRINKLER CABINET(S) AND WRENCH(ES), ANCHORS, SUPPORTS, SLEDS, SLEEVES, SLEEVE SEALS, ETC., IN QUANTITIES ADEQUATE TO SATISFY THE INTENT OF THE ENGINEER DOCUMENTS.
40. COORDINATE WITH OTHER WORK, INCLUDING HVAC, PLUMBING PIPING, ELECTRICAL AS NECESSARY TO INTERFACE COMPONENTS OF THE FIRE SPRINKLER PIPING PROPERLY WITH OTHER WORK.
41. INSTALL VALVE INSPECTOR'S TEST CONNECTION ON SPRINKLER ZONES AT ITS RESPECTIVE HYDRAULICALLY MOST REMOTE ARE AT THE ENDS OF THE BRANCH LINES AND CROSS-MAINS, IN ADDITION, TO LOCATIONS INDICATED ON THE PLANS. TEST CONNECTIONS SHOULD BE ACCESSIBLE AND BE PIPED TO A LOCATION CAPABLE OF MANAGING DRAIN-OFF FROM MAXIMUM TEST FLOWS.
42. DESIGN AND INSTALLATION OF FIRE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH DEPARTMENT OF VETERAN AFFAIRS FIRE PROTECTION DESIGN MANUAL, FIFTH EDITION, APRIL 2009.

SEISMIC USE GROUP	SEISMIC DESIGN CATEGORY	OCCUPANCY CATEGORY
III	C	III
IMPORTANCE FACTOR = 1.25		
<p>SEISMIC RESTRAINT IS REQUIRED FOR ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION SYSTEM COMPONENTS.</p> <p>SYSTEM COMPONENTS SHALL INCLUDE: MEDICAL GAS PIPING, SANITARY PIPING, FIRE PROTECTION PIPING, PLUMBING WATER PIPING, ELECTRICAL CONDUIT, DUCTWORK, MECHANICAL EQUIPMENT, AND MECHANICAL PIPING.</p>		

44. VARIATION FROM SPECIFIED PHYSICAL EQUIPMENT APPEARANCE SHALL TO BE APPROVED THROUGH THE ARCHITECT.
45. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR REQUIRED TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
46. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR A COMPLETE AND FUNCTIONAL SYSTEM, INSTALLED AS PER THE APPLICABLE CODES WITH ALL FINISHED WORK TESTED AND READY FOR OPERATION.
47. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO INSURE THAT ITEMS FURNISHED UNDER HIS CONTRACT WILL FIT IN THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS AND ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SERVICE REQUIREMENTS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.
48. THE FIRE PROTECTION CONTRACTOR SHALL SEAL ALL OF HIS PENETRATIONS OF FIRE RATED WALL USING U.I. PENETRATION ASSEMBLIES AS INDICATED ON THESE DRAWINGS.
49. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL OPENINGS IN THE WALLS AND FLOORS REQUIRED TO COMPLETE HIS WORK UNLESS NOTED OTHERWISE. HE SHALL VERIFY THE LOCATION AND SIZE OF ALL OPENINGS REQUIRED UNDER THIS CONTRACT WITH THE GENERAL CONTRACTOR.
50. EACH CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHOULD BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.



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