

**General Notes**

THE FIRE PROTECTION CONTRACTOR SHOULD USE NFPA-13 (CURRENT EDITION), CHAPTER 8, "PLANS AND CALCULATIONS" AS A GUIDELINE WHEN PREPARING SUBMITTALS FOR REVIEW. DISREGARD ONLY THOSE ITEMS NOT APPLICABLE TO THE INDIVIDUAL BUILDING SYSTEM. FIRE PROTECTION MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 FOR THE INSTALLATION OF AUTOMATIC / SPRINKLER SYSTEM.

THE FIRE PROTECTION CONTRACTOR SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE, 2012 EDITION. INSTALLATION SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ).

REFER TO ARCHITECTURAL DRAWINGS FOR THE REFLECTED CEILING PLANS WHICH INDICATE CEILING HEIGHTS. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN FOR PROPOSED LOCATION OF SPRINKLER HEADS IN AREAS WITH CEILINGS. LOCATE HEADS IN AREAS WITHOUT CEILINGS AS REQUIRED BY BUILDING CODE, NFPA AND AUTHORITY HAVING JURISDICTION FOR THE APPROPRIATE HAZARD CLASSIFICATION.

THIS FACILITY IS CLASSIFIED AS GROUP A-3 AND SHALL BE A TOTALLY SPRINKLERED BUILDING. THE FIRE PROTECTION CONTRACTOR SHALL CONFIGURE BOTH WET-PIPE AND DRY-PIPE SYSTEMS TO PROVIDE COMPLETE SPRINKLER PROTECTION FOR THE ENTIRE BUILDING. SYSTEM TO BE DESIGNED AS REQUIRED BY IBC, NFPA, AND THE AUTHORITY HAVING JURISDICTION REQUIREMENTS FOR THE APPROPRIATE HAZARD CLASSIFICATION.

SPRINKLER HEAD LAYOUTS SHALL BE BASED ON OCCUPANCY HAZARD CLASSIFICATIONS OUTLINED IN NFPA-13 STANDARDS, GENERALLY, PUBLIC / OFFICE AREAS ARE BASED ON "LIGHT HAZARD", AND STORAGE / MECHANICAL AREAS ARE BASED ON "ORDINARY HAZARD". EXTENDED COVERAGE DISTRIBUTION IS NOT INDICATED, BUT MAY BE UTILIZED WHERE SPACE MEETS REQUIREMENTS SET FORTH IN NFPA-13.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HYDRAULICALLY CALCULATE SPRINKLER REQUIREMENTS PER THE APPROPRIATE HAZARD OCCUPANCY AND PROVIDE ACTUAL NUMBER OF HEADS, REQUIRED SPACING AND PIPE ROUTING AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS AND OTHER TRADES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH BUILDING CODE, NFPA AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.

FIRE PROTECTION CONTRACTOR SHOULD DETERMINE THE WATER FLOW AND PRESSURE REQUIRED FOR SIZING THE FIRE PUMP SYSTEM TO SERVE THE BUILDING. FIRE PROTECTION CONTRACTOR TO INCLUDE IN THEIR BID, ALL COSTS ASSOCIATED WITH THE FIRE PUMP SYSTEM. SUBMIT HYDRAULIC CALCULATIONS AND PLANS FOR REVIEW.

SPRINKLER CONTRACTOR SHALL DESIGN THE SYSTEM AND ROUTE PIPING AS REQUIRED FOR CONFORMANCE WITH ACTUAL BUILDING CONDITIONS AND NFPA REQUIREMENTS. COORDINATE SPRINKLER WORK WITH ALL OTHER TRADES TO AVOID CONFLICT.

REFER TO SPECIFICATION SECTIONS IN FOR ADDITIONAL INFORMATION PERTAINING TO THE FIRE PROTECTION SYSTEM.

SUPPORT ALL PIPING AND EQUIPMENT FROM STRUCTURE AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTAL STEEL TO SPAN BETWEEN PRIMARY BUILDING STRUCTURAL MEMBERS. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DESIGN OF SUPPLEMENTAL STEEL AND SUPPORTS INCLUDING REACTION LOADS AT PRIMARY BUILDING STRUCTURAL MEMBERS.

PROVIDE SPRINKLER HEADS IN CONCEALED LOCATIONS PER NFPA REQUIREMENTS.

DURING CONSTRUCTION PROCEDURES, THE ENTIRE WORK AREA SHALL BE CLEAN OF ALL DUST, DIRT, AND OTHER DEBRIS BEFORE APPLICATION OF ANY NEW MATERIALS.

THESE DRAWINGS INDICATE THE GENERAL EXTENT OF THE WORK AND ARE NOT INTENDED TO SHOW OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF CONTRACT DOCUMENTS.

PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC. REQUIRED FOR COMPLETE AND FUNCTIONAL SYSTEM AS SPECIFIED AND INDICATED ON THE DRAWINGS.

INCLUDE IN BID, ALL LICENSE, PERMIT, INSPECTION, AND OTHER FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION REQUIRED FOR COMPLETION OF WORK SO NO ADDITIONAL EXPENSES ARE INTRODUCED TO OWNER.

PROMPTLY INFORM THE ENGINEER, IN WRITING, OF ANY DEVIATIONS IN THE CONTRACT DOCUMENTS FROM REQUIREMENTS OF LOCAL MUNICIPALITIES, STATE OR FEDERAL LAWS AND REGULATIONS. PERFORM WORK IN ACCORDANCE WITH SUCH REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

FIRE PROTECTION CONTRACTOR SHALL SUBMIT COMPLETE SET(S) OF AUTOMATIC SPRINKLER SYSTEM DRAWINGS, HYDRAULIC CALCULATIONS, REQUIRED WATER FLOW AND PRESSURE, AND THE EQUIPMENT DATA BROCHURES PREPARED BY OR UNDER THE SUPERVISION OF, AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN STATE OF GEORGIA TO ALL AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. SYSTEM SHALL ALSO BE IN COMPLIANCE WITH APPLICABLE CODES.

PROVIDE FIRE STOPS / SEALANT AT ALL PIPE PENETRATIONS THROUGHOUT FIRE RATED WALLS AND FLOORS. REVIEW ARCHITECTURAL PLANS PRIOR TO BIDDING AND INDICATE PENETRATIONS ON SPRINKLER LAYOUT SUBMITTAL.

WATER FLOW AND TAMPER SWITCHES ARE TO BE PURCHASED AND INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.

WATER SERVICE AND DETECTOR TYPE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER TO BE PROVIDED, INSTALLED AND TESTED BY PLUMBING CONTRACTOR. SPRINKLER CONTRACTOR IS TO INCORPORATE ASSOCIATED PRESSURE DROP OF SELECTED BACKFLOW PREVENTER DEVICE IN HYDRAULIC CALCULATIONS.

FIRE PROTECTION CONTRACTOR SHALL FURNISH AND INSTALL ARMORER SUPPORTS FOR ALL END OF LINE BRANCH LINES PER NFPA-13, SECTION: 9.2.3.4. REFER TO A.9.2.3.4.3(B) FOR ACCEPTABLE.

THE FIRE PROTECTION CONTRACTOR SHOULD LOCATE THE INSPECTOR'S TEST CONNECTION AND MAIN DRAIN IN LOCATIONS IN ACCORDANCE WITH NFPA-13.

ALL EXPENSES CARRIED BY THE A/E IN TROUBLESHOOTING SYSTEM(S) PROBLEMS CAUSED BY INADEQUATE WORKMANSHIP, LACK OF TECHNICAL EXPERTISE OR OTHER FORMS OF POOR PERFORMANCE ON THE PART OF A CONTRACTOR, SHALL BE BORN BY THAT CONTRACTOR.

SPRINKLER HEADS SHALL BE IN A SYMMETRICAL PATTERN (NOT NECESSARILY) IN THE CENTER OF ROOMS, CORRIDORS OR CEILING TILE.

ALL DROPS TO SPRINKLER HEADS SHALL TEE / ELBOW OFF TOP OF BRANCH PIPE, EXCEPT WHERE STRUCTURAL, ARCHITECTURAL OR MECHANICAL EQUIPMENT CONDITIONS PRECLUDE CONVENTIONAL INSTALLATION.

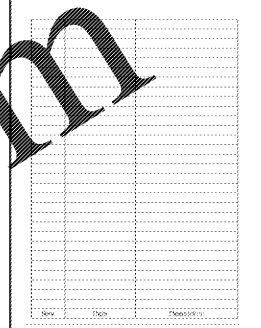
FIRE RATED WALLS PENETRATED BY FIRE SPRINKLER PIPING SHALL PROVIDE WITH AN APPROVED FIRE CAULK/SEAL AROUND THE PIPE.

**"FIRE PROTECTION DRAWINGS HAVE BEEN CREATED FOR THE SOLE PURPOSE OF COMMUNICATING DESIGN INTENT. ACTUAL SYSTEM CONFIGURATION, SIZES, DETERMINING REQUIREMENT FOR FIRE PUMP, EXACT LOCATION AND QUANTITY OF HEADS AND DEVICES, PROFESSIONAL SEAL, AND APPROVAL BY AUTHORITY HAVING JURISDICTION SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR"**

FIRE PROTECTION LEGEND		FIRE PROTECTION ABBREVIATIONS	
SYMBOL	DEFINITION	ABBREVIATION	DEFINITION
	RISER DOWN (ELBOW)	A/C	ABOVE CEILING
	RISER UP (ELBOW)	AFF	ABOVE FINISHED FLOOR
	RISE OR DROP	AFG	ABOVE FINISHED GRADE
	BRANCH - BOTTOM CONNECTION	B/F	BELOW FLOOR
	BRANCH - TO CONNECTION	B/G	BELOW GRADE
	BRANCH - SIDE CONNECTION	BLDG	BUILDING
	VALVE IN RISE	CI	CAST IRON
	ANGLE VALVE	CL	CENTER LINE
	SIDEWALL SPRINKLER	CONT	CONTINUATION
	CHECK VALVE	CONTR	CONTRACTOR
	SHUT-OFF VALVE	D	DRAIN
	GLOBE VALVE	DN	DOWN
	PRESSURE REDUCING VALVE	DTL	DETAIL
	SOLENOID OPERATED VALVE	DWGS	DRAWINGS
	UPRIGHT SPRINKLER	EL	ELEVATION
	PENDENT SPRINKLER	F	FIRE LINE
	CONCEALED SPRINKLER	FLR	FLOOR
	VALVE IN CAST IRON BOX W/ CONC. PAD	FF	FINISHED FLOOR
	FLOW SWITCH	IE	INVERT ELEVATION
	CONCENTRIC REDUCER	GEN	GENERAL
	ECCENTRIC REDUCER	LOC	LOCATION
	STRAINER	NIC	NOT IN CONTRACT
	UNION	PBLG	PLUMBING
	CAP ON END OF PIPE	SP	SPRINKLER
	PLUGGED TEE	SP/IDV	STAND PIPE / FIRE DEPT. VALVE
	PRESSURE GAUGE WITH GAUGE COCK	TSW	TAMPER SWITCH
	PIPE ANCHOR	WI	WITH
	CONNECT TO EXISTING		
	FLOW INDICATOR FOR PORTABLE METER		
	FLOW - IN DIRECTION OF ARROW		
	BACKFLOW PREVENTER W/ STRAINER		
	SIAMESE FIRE DEPARTMENT CONNECTION		
	STANDPIPE W/ FIRE DEPARTMENT VALVE		
	METER		

NOTE: THESE ARE STANDARD ABBREVIATIONS, ALL ABBREVIATIONS SHOWN ABOVE MAY NOT APPEAR ON DRAWINGS.

- FIRE PROTECTION GENERAL INFORMATION AND PERFORMANCE REQUIREMENTS
- THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE SPRINKLER REQUIREMENTS PER THE APPROPRIATE OCCUPANCY OF LIGHT AND ORDINARY HAZARD.
  - PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC. REQUIRED FOR COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, AND NFPA AND AUTHORITY HAVING JURISDICTION.
  - SPRINKLER CONTRACTOR SHALL DESIGN THE SYSTEM, LOCATE SPRINKLER HEADS AND ROUTE PIPING AS REQUIRED TO CONFORM WITH ACTUAL BUILDING CONDITIONS AND NFPA REQUIREMENTS. COORDINATE SPRINKLER WORK WITH ALL OTHER TRADES TO AVOID CONFLICT.
  - PERFORMANCE REQUIREMENTS:
    - STANDARD PRESSURE PIPING SYSTEM COMPONENT: LISTED FOR 175 PSIG MINIMUM WORKING PRESSURE.
    - SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY THE AUTHORITIES HAVING JURISDICTION.
    - SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS:
      - A. BUILDING SERVICE AREAS: ORDINARY HAZARD, GROUP 1.
      - B. ELECTRICAL EQUIPMENT ROOMS: ORDINARY HAZARD GROUP 1.
      - C. GENERAL STORAGE AREAS: ORDINARY HAZARD GROUP 1.
      - D. MECHANICAL EQUIPMENT ROOMS: ORDINARY HAZARD GROUP 1.
      - E. OFFICE AND PUBLIC AREAS: LIGHT HAZARD.
    - MINIMUM DENSITY FOR AUTOMATIC SPRINKLER PIPING DESIGN:
      - A. LIGHT HAZARD OCCUPANCY: 0.10 GPM OVER 1500 SQ. FT. AREA.
      - B. ORDINARY HAZARD, GROUP 1 OCCUPANCY: 0.15 GPM OVER 1500 SQ. FT. AREA.
    - MAXIMUM PROTECTION AREA PER SPRINKLER:
      - A. OFFICE SPACES: 120 SQ. FT. / 225 SQ. FT.
      - B. STORAGE AREAS: 130 SQ. FT.
      - C. MECHANICAL EQUIPMENT ROOMS: 130 SQ. FT.
      - D. ELECTRICAL EQUIPMENT ROOMS: 130 SQ. FT.
      - E. OTHER AREAS: ACCORDING TO NFPA RECOMMENDATIONS.
    - TOTAL COMBINED HOSE STREAM DEMAND REQUIREMENT:
      - A. LIGHT HAZARD OCCUPANCIES: 100 GPM FOR 30 MINUTES.
      - B. ORDINARY HAZARD OCCUPANCIES: 250 GPM FOR 90 TO 120 MINUTES.
  - QUALITY ASSURANCE:
    - INSTALLER QUALIFICATIONS INCLUDE DESIGNING, FABRICATING, AND INSTALLING SPRINKLER SYSTEMS AND PROVIDING PROFESSIONAL ENGINEERING SERVICES NEEDED TO ASSUME ENGINEERING RESPONSIBILITY. WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND OPERATORS ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE.
    - ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
    - NFPA STANDARDS: SPRINKLER SYSTEM EQUIPMENT, SPECIALTIES, ACCESSORIES, INSTALLATION, AND TESTING SHALL COMPLY WITH NFPA 13, "INSTALLATION OF SPRINKLER SYSTEMS".
  - FIRE PROTECTION PIPE AND FITTINGS:
    - STANDARD WEIGHT, GALVANIZED AND BLACK STEEL PIPE: ASTM A 53/A 53M, TYPE B, SCHEDULE 40.
    - SCHEDULE 40, GALVANIZED AND BLACK STEEL PIPE: ASTM A 135, ASTM A 795/A 795M, TYPE B, OR ASME B36.10M.
    - GALVANIZED AND BLACK STEEL PIPE NIPPLES: ASTM A 753, MADE OF ASTM A 53/A 53M, STANDARD WEIGHT SEAMLESS STEEL PIPE WITH THREADED ENDS.
    - GALVANIZED AND UNCOATED STEEL COUPLINGS: ASTM A 865, THREADED.
    - GALVANIZED AND UNCOATED GRAY IRON THREADED FITTINGS: ASTM A 124, CLASS 125, STANDARD PATTERN.
    - MALLEABLE OR DUCTILE IRON UNIONS: UL 860.
    - STEEL FLANGES AND FLANGED FITTINGS: ASME B16.5, CLASS 150.
    - STEEL WELDING FITTINGS: ASTM A 234/A 234M AND ASME B16.3.
    - ALL PIPING AND FITTINGS SHALL BE AS MANUFACTURED IN THE UNITED STATES OF AMERICA.
  - PIPING JOINING MATERIALS:
    - PIPE FLANGE GASKET MATERIALS: AWWA C108, RUBBER, FLAT FACE, 1/8" THICK OR ASME B16.21, NON METALLIC AND ASBESTOS FREE.
    - METAL PIPE FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL.
  - LISTED FIRE PROTECTION VALVES:
    - GENERAL REQUIREMENTS: VALVES SHALL BE LISTED OR FM APPROVED FOR A MINIMUM PRESSURE RATING FOR STANDARD PRESSURE PIPING OF 175 PSIG.
  - SPRINKLER GENERAL REQUIREMENTS:
    - STANDARD UL'S "FIRE PROTECTION EQUIPMENT DIRECTORY" LISTING OR "APPROVAL GUIDE," PUBLISHED BY FM GLOBAL, LISTING.
    - PRESSURE RATING FOR AUTOMATIC SPRINKLERS: 175 PSIG.
    - AUTOMATIC SPRINKLERS WITH HEAT RESPONSIVE ELEMENT:
      - EARLY SUPPRESSION, FAST RESPONSE APPLICATIONS: UL 1787.
      - RESIDENTIAL APPLICATIONS: UL 198.
    - TEMPERATURE CLASSIFICATION RATING UNLESS OTHERWISE INDICATED OR REQUIRED BY APPLICATION.
  - SPRINKLER FINISHES:
    - FINISH SHALL BE EITHER BRONZE OR CHROME PLATED, DEPENDING ON LOCATION.
  - PIPING INSTALLATION:
    - PIPING STANDARD: COMPLY WITH REQUIREMENTS FOR INSTALLATION OF SPRINKLER PIPING IN NFPA 13.
    - USE LISTED FITTINGS TO MAKE CHANGES IN DIRECTION, BRANCH TAKEOFFS FROM MAINS, AND REDUCTIONS IN PIPE SIZES.
    - INSTALL INSPECTOR'S TEST CONNECTIONS IN SPRINKLER SYSTEM PIPING, COMPLETE WITH SHUTOFF VALVE, AND SIZED AND LOCATED ACCORDING TO NFPA 13.
    - INSTALL SPRINKLER PIPING WITH DRAINS FOR COMPLETE SYSTEM DRAINAGE.
    - INSTALL HANGERS AND SUPPORTS FOR SPRINKLER SYSTEM PIPING ACCORDING TO NFPA13.
  - SPRINKLER INSTALLATION:
    - INSTALL SPRINKLERS IN SUSPENDED CEILINGS IN CENTER OF NARROW DIMENSION OF ACOUSTICAL CEILING PANELS.
  - FIELD QUALITY CONTROL:
    - PERFORM TESTS AND INSPECTIONS:
      - TESTS AND INSPECTIONS:
        - LEAK TEST: AFTER INSTALLATION, CHARGE SYSTEMS AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST.
        - TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
        - FLUSH, TEST, AND INSPECT SPRINKLER SYSTEMS ACCORDING TO NFPA 13, SYSTEMS ACCEPTANCE CHAPTER.
      - SPRINKLER PIPING WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
      - PREPARE TEST AND INSPECTION REPORTS.
  - PIPING SCHEDULE:
    - STANDARD PRESSURE, WET PIPE SPRINKLER SYSTEM, NPS 2 AND SMALLER, SHALL BE ONE OF THE FOLLOWING:
      - STANDARD WEIGHT, BLACK STEEL PIPE WITH THREADED ENDS; UNCOATED, GRAY IRON THREADED FITTINGS; AND THREADED JOINTS.
      - STANDARD WEIGHT, BLACK STEEL PIPE WITH CUT OR ROLL GROOVED ENDS; UNCOATED, GROOVED END FITTINGS FOR STEEL PIPING; GROOVED END PIPE COUPLINGS FOR STEEL PIPING; AND GROOVED JOINTS.
    - STANDARD PRESSURE, WET PIPE SPRINKLER SYSTEM, NPS 2-1/2 TO NPS 4, SHALL BE ONE OF THE FOLLOWING:
      - STANDARD WEIGHT, BLACK STEEL PIPE WITH THREADED ENDS; UNCOATED, GRAY IRON THREADED FITTINGS; AND THREADED JOINTS.
      - STANDARD WEIGHT, BLACK STEEL PIPE WITH CUT OR ROLLED GROOVED ENDS; UNCOATED, GROOVED END FITTINGS FOR STEEL PIPING; GROOVED END PIPE COUPLINGS FOR STEEL PIPING; AND GROOVED JOINTS.
      - STANDARD WEIGHT, BLACK STEEL PIPE WITH PLAIN ENDS; STEEL WELDING FITTINGS; AND WELDED JOINTS.
  - SPRINKLER SCHEDULE:
    - USE THE SPRINKLER TYPES LISTED BELOW FOR THE FOLLOWING APPLICATIONS:
      - ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS.
      - ROOMS WITH SUSPENDED CEILINGS: PENDANT SPRINKLERS.
      - WALL MOUNTING: SIDEWALL SPRINKLERS.
      - SPECIAL APPLICATIONS: EXTENDED COVERAGE, FLOW CONTROL, AND QUICK RESPONSE SPRINKLERS.
  - IDENTIFICATION:
    - INSTALL LABELING AND PIPE MARKERS ON EQUIPMENT AND PIPING ACCORDING TO THE REQUIREMENTS IN NFPA 13.



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