



FIRE PROTECTION NOTES

GENERAL REQUIREMENTS

- 1. PROVIDE A COMPLETE HYDRAULICALLY CALCULATED AUTOMATIC SPRINKLER SYSTEM. INCLUDING ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO DELIVER ALL SYSTEMS COMPLETE, IN PERFECT WORKING ORDER AND IN FULL ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, 24, THE OWNER'S INSURANCE UNDERWRITER AND LOCAL AUTHORITIES.
- 2. OBTAIN CURRENT WATER FLOW TEST INFORMATION FROM THE LOCAL WATER UTILITY BEFORE STARTING ANY SPRINKLER SHOP DRAWINGS.
- 3. OBTAIN A COMPLETE AND CURRENT SET OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL MECHANICAL. ELECTRICAL, PLUMBING DRAWINGS AND COORDINATE SPRINKLER SHOP DRAWINGS WITH ALL TRADES PRIOR TO CONSTRUCTION.
- 4. PROVIDE SHOP DRAWINGS INCLUDING BUT NOT LIMITED TO ALL ITEMS WHICH APPLY AS OUTLINED IN NFPA-13 SECTION 6-1; "WORKING PLANS" AND IN NFPA 13 SECTION 6-2; "HYDRAULIC CALCULATIONS".
- 5. THE SPRINKLER CONTRACTOR SHALL DETERMINE AND NOTE ON THE DRAWINGS; THE HAZARD CLASSIFICATION USED TO DETERMINE SPRINKLER SPACING AND DESIGN DENSITIES.
- PRIOR TO THE START OF CONSTRUCTION, THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND SUBMITTING TO ALL AUTHORITIES HAVING JURISDICTION AND THE DESIGN ENGINEER/ARCHITECT COMPLETE DESIGN/SHOP DRAWINGS AND HYDRAULIC CALCULATIONS BEARING A CURRENT NICET LEVEL 3 OR 4 SIGNATURE.
- 7. OBTAIN A PERMIT FROM THE LOCAL AUTHORITIES PRIOR TO THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEM.
- 8. PROVIDE ALL NECESSARY OFFSETS, RISES OR DROPS IN THE PIPING AND AUXILIARY DRAINS AS REQUIRED BY ALL APPLICABLE CODES WHETHER OR NOT SHOWN ON THE PLANS.
- 9. THE DESIGN, MATERIALS, AND INSTALLATION SHALL MEET OR EXCEED ALL REQUIREMENTS OF THEN.F.P.A. CODES, STATE FIRE MARSHAL, LOCAL FIRE MARSHAL HAVING JURISDICTION, OWNERS INSURANCE CARRIER, AND GOVERNING CITY AND COUNTY CODES.
- 10. WARRANTY THE SYSTEM, LABOR, MATERIALS AND EQUIPMENT FOR ONE YEAR AFTER OWNERS ACCEPTANCE. REPLACE OR REPAIR DEFECTIVE WORKMANSHIP, EQUIPMENT AND MATERIALS AT NO ADDITIONAL TO THE OWNER.
- 11. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SEISMIC PROTECTION REQUIREMENTS FOR THE PROJECT AND THE SEISMIC DESIGN CONFORMING TO ALL APPLICABLE CODES.
- 12. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING APPARATUS EQUIPMENT, ETC. IN ACCORDANCE WITH ALL APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.
- 13. ALL SPRINKLE ALARM, TAMPER AND DETECTION SYSTEMS ARE TO BE CONNECTED TO THE BUILDINGS CENTRAL FIRE ALARM
- 14. VALVES, HEADS, FLOW SWITCHES, ETC., SHALL CARRY EITHER THE F.M. OR U.L. APPROVAL AND CONFORM TO ALL REQUIREMENTS AS LISTED IN THE LATEST EDITION OF THE NFPA CODES.
- 15. ABOVE GRADE AND FITTINGS: BLACK STEEL CONFORMING TO ASTM SPECIFICATIONS FOR BLACK AND HOT DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS STEEL PIPE FOR ORDINARY USES, ANSI/ASTM A53, FITTINGS SHALL BE WELDED, SCREWED, OR GROOVED MECHANICAL JOINT.
- 16. PIPE HANGER: SHALL CONFORM TO N.F.P.A. AND U.L. STANDARDS FOR SPACING, NUMBER, SIZE, AND TYPE. PIPE TO BE GENERALLY SUPPORTED BY CLAMPS AND RODS SECURED TO OVERHEAD CONSTRUCTION.
- 17. ESCUTCHEON PLATES: PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH
- FINISHED WALLS, FLOORS, OR CEILING. PROVIDE PRIME COAT PAINTED ESCUTCHEON PLATES WHEREVER PIPES PASS THROUGH THE WALLS. FLOOR. OR CEILINGS IN UNFURNISHED EXPOSED AREAS.
- 18. TESTING AND FLUSHING: OVERHEAD SPRINKLER PIPING: TESTED FOR A PERIOD OF TWO HOURS AT A HYDROSTATIC PRESSURE OF 200 LBS. AND ALL PIPING, VALVES, HEADS, ECT. SHALL BE WATERTIGHT FOR ALL SYSTEMS BELOW LOWER LEVEL ROOF OR SECOND LEVEL SILO. SYSTEM SHALL BE TESTED AT 300 LBS FOR SILO HIGH PRESSURE SYSTEM.
- 19. CUTTING AND PATCHING OF ANY EXISTING CONDITIONS INCLUDING FLOORS, WALLS AND CEILINGS DUE TO THE INSTALLATION OF THE FIRE PROTECTION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
- 20. PAINT ALL EXPOSED PIPING IN CLOSETS, STAIRWELLS, MECHANICAL ROOM, ETC. COLOR TO BE RED. ALL HIGH PRESSURE PIPING FROM PUMP TO TOP OF TOWER SHALL BE RED WITH WHITE STRIPS WHICH CAN BE EITHER PAINTED ON OR WITH HIGH QUALITY TAPE.
- 21. HEAD LOCATIONS ARE TO BE IN CENTER OF THE CEILING TILE USING THE REFLECTIVE CEILING PLANS IN THE CONTRACT DOCUMENTS, AND AS COORDINATED WITH THE CEILING CONTRACTOR.
- 22. PROVIDE RECORD DRAWINGS WHICH CLEARLY SHOW ALL UNDERGROUND PIPING DIMENSIONED FROM ANY PERMANENT STRUCTURE, AND ALL WORK ADDED TO THE CONTRACT DOCUMENTS.

DESIGNCRITERIA

- 1. SPRINKLER HEADS SHALL BE SPACED **IN** ACCORDANCE WITH NFPA-13 AND THE MANUFACTURER'S APPROVAL LISTING.
- 2. SPRINKLER HEADS SPACING SHALL NOT EXCEED 130 SQ. FT. PER HEAD FOR LIGHT HAZARD AREAS AND ORIDINARY HAZARD AREAS. THE SPRINKLER SPACING SHALL NOT EXCEED 15 FT. DESIGN DENSITY FOR AREA 1 LIGHT HAZARD .10/1500 + 100 HOSE MINIMUM. DESIGN DENSITY FOR AREA 3 ORDINARY HAZARD 1 .15/1500 + 250 HOSE MINIMUM. DESIGN DENSITY FOR AREA 2 COMMODITY HAZARD I .29/2000 + 400 HOSE MINIMUM. DESIGN DENSITY FOR AREA 4 ORDINARY HAZARD II .20/1500 + 250 HOSE MINIMUM.
- 3. DESIGN AND HYDRAULICALLY CALCULATE THE SPRINKLER SYSTEM UTILIZING THE INFORMATION INCLUDED HEREIN AND MEET ALL NFPA-13 & 24 STANDARDS. THE CONTRACTOR SHALL TERMINATE THE HYDRAULIC CALCULATIONS AT THE CITY CONNECTION MINIMUM.



B COR3 Design, LLC

Commercial, Office, Retail, Restaurant, Real Estate Development

125 Rhett Street

Suite 101Greenville, SC 29601

E Phone: 864.451.5288 E Fax: 864.990.3085

www.cor3design.com

Consultants:
STRUCTURAL

Taylor and Viola Structural Engineers
PO Box 2616
Hickory, NC 28603
828.328.6331

☐ PLUMBING
☐ LWI Consulting Engineers
☐ 870 Cleveland St, STE 1D

Greenville, SC 29601 864.271.6535 MECHANICAL

MECHANICAL
LWI Consulting Engineers
870 Cleveland St, STE 1D
Greenville, SC 29601
864.271.6535

ELECTRICAL
Matrix Engineering, INC
912 S Pine Street
Spartanburg, SC 29302
864.583.6274

HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,

HOME

GREENWOOD, SC 29649



10.16.2024 Issue For Permit 03.20.2025 100% Issue For Hilton

Project Number:
23112
Phase:
CD
Date:

Date : 04.22.2024
Drawn By : Checked By :

FP-100

Sheet Title :

FIRE PROTECTION NOTES AN

DETAILS