

CITY OF TOLEDO OHIO



FIRE AND RESCUE DEPARTMENT

FIRE SPRINKLER SYSTEM ROUGH INSPECTION TMC 1512.08 (3)

The installing contractor must have a valid City of Toledo business license & a construction permit. Approved plans shall be on site. Fire inspections cannot be conducted until the license and permit are obtained.

Consult the approved plans for the following:

- Proper *type* of piping is being used.
- Proper *size* of piping.
- Piping installation does not have excess change of direction not indicated on the approved plans (this may adversely effect hydraulic calculations).
- Proper hangers and supports correctly spaced as indicated on drawings. (NFPA 13 Table 9.2.2.1 A or B)
- Riser supports are installed to NFPA 13. (NFPA 13 9.2.5)
- Backflow device...correct size, type and orientation (horizontal or vertical).
- Proper type and temperature of sprinkler heads (listed on drawings. Also, See NFPA 13 Table 6.2.5.1).
- Proper clearance of sprinkler heads from obstructions. (Depends on sprinkler type and obstruction).
- Proper distance between sprinklers off the wall, max. coverage area per sprinkler head and distance below roof deck
- Installation of inspectors' test (shall be the same size as the orifice of the smallest sprinkler head in the system).
- Sprinkler heads are not painted. Painted heads must be replaced- there is no provision in the code for cleaning heads. (NFPA 13 6.2.6.2)
- All water control, flow, auxiliary and inspectors' test valves are located where readily accessible. (NFPA 13 8.16.1.1.7)
- Minimum 12" x 36" access panels are provided for all valves inside walls or concealed spaces. Signage shall be provided on the outside of access panels indicating type of valve located within
- Hydraulic information plates complete with design density and total system demand are affixed to each Riser.* (NFPA 13 25.5.1)

Note: Work installed contrary to the approved drawings is a violation of the OBC Section 108.6.1

General guide lines for FDC placement/location

- Located along normal route of fire vehicle access unless otherwise approved (see the drawings)(OFC 912.1)
- Installed between 18" and 48" above finished grade.
- Has outside water flow alarm device above it.* (OFC 903.4.2)
- Has proper signage installed as follows:*
 - "FDC"—red w/white letters min. 6" tall x 2" wide attached to the building 7 to 10" above grade
 - directly above the connection. Sign must be clearly visible from the street or access road.
 - Additional signs of the same color and description as required to direct fire personnel to the location of the connection (example: "FDC at rear of building ")
- FDC is not blocked by obstructions such as bushes, other equipment such as AC units or transformers or locked gates or fences. (OFC 912.4)

For a remotely located FDC, confirm caps of connection face the street or access road. Also, protection from vehicular damage may be required.

Hydrostatic test of the piping @200psi for 2 hours or 50psi above working pressure, whichever is greater is required and should be recorded on the *Contractors Material and Test Certificate Form*. (NFPA 13-25.2.1)

Pressure relief after the hydrostatic test shall be done and confirm the gauge returns to zero.

* These items may be incomplete for the rough but **must be completed** for the final sprinkler inspection.