

PART 1 General

1.1 REFERENCES

- .1 American National Standards Institute/National Fire Prevention Association (ANSI/NFPA)
 - .1 ANSI/NFPA 13-2016 - Installation of Sprinkler Systems.

1.2 SHOP DRAWINGS AND PRODUCT DATA

- .1 Submit shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures and in accordance with ANSI/NFPA 13, working plans and design requirements.

1.3 ENGINEERING DESIGN CRITERIA

- .1 Design system in accordance with ANSI/NFPA 13, using following parameters:
 - .1 Hazard:
 - .1 To suit occupancy as indicated.
 - .2 Pipe size and layout:
 - .1 Pipe schedule sizing design.
 - .2 Sprinkler head layout: to ANSI/NFPA 13.
 - .3 Water supply:
 - .1 Conduct flow and pressure test of water supply in vicinity of project to obtain criteria for bases of design in accordance with ANSI/NFPA 13.
 - .2 Base design on ANSI/NFPA 13.
 - .4 Zoning:
 - .1 System zoning as indicated.

1.4 CLOSEOUT SUBMITTALS

- .1 Provide maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.5 EXTRA MATERIALS

- .1 Provide maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Provide spare sprinklers and tools as required by ANSI/NFPA 13.

PART 2 Products

2.1 PIPE, FITTINGS AND VALVES

- .1 Pipe:

- .1 Ferrous: to ANSI/NFPA 13.
- .2 Copper tube: to ANSI/NFPA 13.
- .2 Fittings and joints to ANSI/NFPA 13:
 - .1 Ferrous: screwed, welded, flanged or roll grooved.
 - .2 Copper tube: screwed, soldered, brazed.
- .3 Valves:
 - .1 ULC listed for fire protection service.
 - .2 Up to NPS 2: bronze, screwed ends, OS & Y; gate.
 - .3 NPS 2 1/2 and over: cast iron, flanged or roll grooved ends, indicating butterfly valve.
 - .4 Swing check valves.
 - .5 Ball drip.
- .4 Pipe hangers:
 - .1 ULC listed for fire protection services.

2.2 SPRINKLER HEADS

- .1 General: to ANSI/NFPA 13 and ULC listed for fire services.

2.3 SPRINKLER HEAD TYPE A

- .1 Upright bronze.

2.4 SPRINKLER HEAD TYPE B

- .1 Pendant chrome link and lever type.

2.5 SPRINKLER HEAD TYPE C

- .1 Pendant chrome glass bulb type.

2.6 SPRINKLER HEAD TYPE D

- .1 Recessed chrome fusible link type with ring and cup.

2.7 SPRINKLER HEAD TYPE E

- .1 Flush chrome link and lever type.

PART 3 Execution

3.1 INSTALLATION

- .1 Install, inspect and test to acceptance in accordance with ANSI/NFPA 13.
- .2 Testing to be witnessed by Fire Commissioner of Canada.

END OF SECTION