

**Part 1            General**

**1.01            CLOSEOUT SUBMITTALS**

- .1      Submit in accordance with Section 01 78 00 - Closeout Submittals.
  - .1      As-built drawings:
    - .1      Identify each drawing in lower right hand corner in letters at least 12 mm high as follows: - "AS BUILT DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW MECHANICAL SYSTEMS AS INSTALLED" (Signature of Contractor) (Date).
    - .2      Submit to Departmental Representative for approval and make corrections as directed.
    - .3      Submit completed reproducible as-built drawings with Operating and Maintenance Manuals.
  - .2      Submit copies of as-built drawings for inclusion in the maintenance manual.

**1.02            DELIVERY, STORAGE AND HANDLING**

- .1      Deliver, store and handle materials in accordance with Section with manufacturer's written instructions.
- .2      Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3      Storage and Handling Requirements:
  - .1      Store materials off ground, indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2      Replace defective or damaged materials with new.

**Part 2            Products**

**2.01            NOT USED**

- .1      Not used.

**Part 3            Execution**

**3.01            CLEANING**

- .1      Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1      Leave Work area clean at end of each day.
- .2      Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

**3.02            PROTECTION**

- .1        Protect equipment and systems openings from dirt, dust, and other foreign materials with materials appropriate to system.

**END OF SECTION**

**Part 1 General**

**1.01 REFERENCES**

- .1 American National Standards Institute (ANSI)/American Society of Mechanical Engineers International (ASME)
  - .1 ANSI/ASME B16.22, Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.
- .2 ASTM International Inc.
  - .1 ASTM B88M, Standard Specification for Seamless Copper Water Tube (Metric).
- .3 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
  - .1 Material Safety Data Sheets (MSDS).
- .4 National Research Council (NRC)/Institute for Research in Construction
  - .1 NRCC 38728, National Plumbing Code of Canada (NPC).

**1.02 DELIVERY, STORAGE AND HANDLING**

- .1 Place materials defined as hazardous or toxic in designated containers.
- .2 Handle and dispose of hazardous materials in accordance with Regional and Municipal regulations.

**Part 2 Products**

**2.01 PIPING**

- .1 Domestic hot, cold and recirculation systems, within building.
  - .1 Above ground: copper tube, hard drawn, type L: to ASTM B88M.

**2.02 FITTINGS**

- .1 Cast copper, solder type: to ANSI/ASME B16.18.
- .2 Wrought copper and copper alloy, solder type: to ANSI/ASME B16.22.
- .3 NPS 1 and smaller: wrought copper to ANSI/ASME B16.22, cast copper to ANSI/ASME B16.18. Suitable for operating pressure to 1380 kPa.

**Part 3 Execution**

**3.01 APPLICATION**

- .1 Manufacturer's Instructions: comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions, and datasheets.

**3.02            INSTALLATION**

- .1      Install in accordance with Provincial Plumbing Code.
- .2      Assemble piping using fittings manufactured to ANSI standards.
- .3      Install CWS piping below and away from HWS and HWC and other hot piping so as to maintain temperature of cold water as low as possible.
- .4      Connect to fixtures and equipment in accordance with manufacturer's written instructions unless otherwise indicated.

**3.03            CLEANING**

- .1      Clean in accordance with Section 01 74 11 - Cleaning.

**END OF SECTION**