1. **PART 1 – GENERAL**
   1. **References**
      1. All work shall be in conformance to the latest revision of « Quebec Building Code – Chapter I», unless otherwise indicated.
      2. All work shall conform to the latest revised codes and standards that having jurisdiction, including but not limited to:
         1. ANSI / ASME B16.34, Valves – Flanged, Threaded and Welding Ends.
         2. ANSI / API 609, Lug and Wafer Type Butterfly Valves.
         3. ASTM A126, Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings.
         4. MSS-SP-67, Butterfly Valves.
   2. **Submittals**
      1. Product Data:
         1. Submit shop drawings and technical data in conformance with client’s instructions.
   3. **Instruction and Maintenance Manual**
      1. Submit manufacturer’s installation and start-up instructions.
      2. The maintenance manual will comprise of or indicate the following:
         1. A description of the major components; the manufacturer, series or model reference number;
         2. All details relating to the operation, care and maintenance of component;
         3. A list of equivalent component replacements.
2. **PART 2 – PRODUCTS**
   1. **Butterfly Valve**
      1. Butterfly valves 2” to 24”, lugged type:
         1. The valves shall be of heavy-duty cast iron construction suitable for standard ANSI connections. Construction of the shaft will be in 316 stainless steel and disc in 304 stainless steel with seat in EPDM. Valve sizes 6” shall have memory stopper with set screw.
         2. Maximum working pressure:
            1. Size 2” to 12”: 1379 kPa (200 psi);
            2. Size 14” to 24”: 1034 kPa (150 psi).
         3. Maximum working temperature: 108°C (225°F).
         4. Acceptable component: Flo Fab series LBFVZ.
3. **PART 3 – EXECUTION**
   1. **Installation**
      1. Unless otherwise indicated, butterfly valves should be installed with the stem in a vertical position pointing up or horizontal position.
      2. Install shutoff valves along the supply line, upstream and downstream of major components that may require serving and as indicated on the piping diagram.
   2. **Tests**
      1. Test system piping as required.
      2. In the case of system containing a water-glycol solution, re-test after rinsing with a solution of ethylene glycol, according to ASTM E202, inhibited, suitable for building networks. Correct any leaks at joints, fittings, and valves.
   3. **Cleaning and rinsing**
      1. Comply with section titled: Cleaning and Disinfection of Pipes, Fittings and Components.

**End of Section**