



## Town of Bristol

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## Summary of Changes: Appendix C Construction Specifications (December 2024 to August 2025)

### TECHNICAL SPECIFICATION ENHANCEMENTS:

#### 2. Service Line Requirements - NEW COMPREHENSIVE SECTION 2

##### 2.1 Town Side Service Connection (Distribution Main to Curb Stop)

Added detailed specifications for:

- **Lines up to 2 inches:**
  - Type K copper ONLY (confirmed from previous general requirement)
  - NSF certification requirement: minimum 250 psi pressure rating
  - Required materials: brass fittings, saddles, corporation stops, curb stops
  - Installation preferences: full-length runs preferred, compression fittings if splices required
  - Pipe diameter confirmation requirement with Water Operator
  - Repair authority at Water Operator's discretion
- **Lines over 2 inches:**
  - Ductile iron OR C-900 PVC (changed from "preferred" to specific requirement)
- **Tracer Wire Requirements (2.1.3) - NEW:**
  - Specifications: Minimum 12-gauge, 30 ml copperhead, high-strength PVC coated
  - Installation: Full length from distribution main to curb stop
  - Access points: Snake pit light duty with blue cast iron lid
  - Heavy-duty requirement for vehicle traffic areas

##### 2.2 Customer Side Service Line (Curb Stop to Building) - ENTIRELY NEW

Added comprehensive specifications for:

- **Lines up to 2 inches:**
  - Type K copper OR CTS SDR 9 HDPE piping (HDPE option newly specified)
  - NSF certification: minimum 250 psi rating
  - Special HDPE requirement: stainless steel pipe stiffeners with compression fittings
  - NL-style brass compression fittings for splices
  - Full installation and repair protocols
- **Lines over 2 inches:**
  - All C-900 PVC or CTS SDR 9 HDPE piping
- **Customer Side Tracer Wire (2.2.3) - NEW:**
  - Same specifications as town side

- Required for CTS SDR 9 HDPE piping
- Required for all C-900 PVC or HDPE lines over 2 inches
- Access point requirements identical to town side

## **2.4 Service Line Bedding Requirements**

- Maintained: 4 inches sand below, 12 inches sand above
- Now in dedicated subsection with clearer formatting

## **WATER METER SPECIFICATIONS - NEW SECTION 3:**

### **3.1 Interior Meter Touch Pad Wiring Requirements - ENTIRELY NEW**

- 1/2" conduit requirement for routing touch pad wiring
- Installation standards matching other utility services
- Continuous protection requirement for wiring runs
- Accessibility requirement for exterior reading point

### **3.2 Water Main Design Requirements**

- Retained previous requirement: Vermont Professional Engineer design
- Retained: Vermont Water Supply Rules compliance
- Now in dedicated subsection

## **MATERIAL SPECIFICATION CHANGES:**

### **3. Enhanced Material Standards**

#### **Before:**

- General statement: "Type K copper required for lines up to 2 inches"
- General statement: "Ductile iron or C-900 PVC preferred for lines over 2 inches"
- Basic tracer wire requirement

#### **After:**

- **NSF certification requirement** with 250 psi minimum rating
- **CTS SDR 9 HDPE piping option** for customer side lines
- **Stainless steel pipe stiffeners** requirement for HDPE
- **NL-style brass compression fittings** specification
- **12-gauge, 30 ml copperhead** tracer wire specification
- **Snake pit access points** with blue cast iron lids
- **Heavy-duty requirements** for traffic areas

## **CLARIFICATIONS & ADDITIONS:**

### **4. Installation Standards**

- Full-length piping runs preferred (no splices when possible)
- Specific fitting types required when splices necessary
- Water Operator confirmation required for pipe diameter
- Water Operator discretion for repairs

### **5. Access Requirements**

- Standard vs. heavy-duty access point specifications
- Blue single termination cast iron lid requirement
- Vehicle traffic area provisions

## 6. Pressure Rating Standards

- Minimum 250 psi pressure rating requirement added throughout

**Conclusion:** The August 2025 version transforms a basic outline into a comprehensive technical specification document. Key improvements include:

1. **Detailed material specifications** with NSF certification requirements
2. **Separate town-side and customer-side standards** with distinct requirements
3. **Comprehensive tracer wire specifications** with installation and access standards
4. **New HDPE piping option** for customer side with specific installation requirements
5. **Interior meter touch pad wiring standards** for accessibility
6. **Enhanced quality control** through Water Operator confirmation and discretion provisions

This represents a shift from general guidance to enforceable technical standards suitable for contractor compliance and system integrity assurance.