

# Huxley, Iowa Standard Specifications for Utility Connections

## Sanitary Sewer Service

### Service pipe:

(PVC) SDR 23.5 with gasketed joints.

Minimum size: 4" residential and 6" commercial or industrial.

Minimum slope: 1/8 inch per foot.

Provide flexible watertight connections at all transitions in pipe size and type.

**When tapping sewer use ROMAC CB463UN for 4 inch and ROMAC CB666UN for 6 inch.**

Service connections to manholes are not permitted.

Use wye or tee fittings for service connections.

All fittings will conform to SDR 23.5 Pipe.

All fittings will be bell and gasket fit unless approved by water superintendent.

No glue joints allowed.

Bottom trench for pipe will be of granular material as approved by inspector. No pea rock or river rock.

Clean out wye will be placed 18" to 48" off interior finished floor.

Compact excavated ditch to 95 percent compaction in right of way and public utility easement to eliminate any settlement. Any settlement in this area in the future will be owner/contractor liability.

All lines will be inspected by the city by means of televising after line is placed and backfilled and wye installed.

## Sump Pump Connections:

Schedule 40 PVC.

## Water Services:

**Water service pipe:** 1 inch minimum; Type K copper for 2 inch and smaller, ductile iron or C900 PVC for larger than 2 inch. Commercial Buildings will be determined during site plan review.

**Service Saddles:** ductile iron body, double stainless steel strap, corrosion resistant nylon coating, design for use on PVC pipe; 1 inch minimum outlet; Rockwell Type 317 or approved equal.

**Corporation Stops:** conform with AWWA C800, ball type, Teflon-coated ball, flare outlet; 1 inch minimum; Ford FB600 or approved equal.

**Curb Stops:** conform with AWWA C800, heavy cast bronze body, ball type, Teflon-coated ball, O-ring seals, ¼ turn open, 200 psi working pressure, flare ends, pattern; 1 inch minimum; Ford B22 series or approved equal.

Do not locate service under driveway or driveway approach.

Use service saddle for connections to PVC water mains.

Install corporation stop, service line, curb stop and curb box as shown on standard drawings.

Install copper service pipe with 1-1/2 feet minimum extra length and install by waving in trench.

Minimum 5 feet depth of cover.

No solder joints underground; use flare couplings. Brass fittings only.

**Curb Box:** All curb stop boxes will be placed at final grade height. No couplings or extension are allowed on curb stop box.

All bent or damaged curb stop boxes will be replaced before inspection is made.

Curb Box shall be arch pattern with stainless steel rod with two-hole lid.

No curb stops should be located in sidewalks or driveways. If this cannot be avoided the curb stop shall be supported by a cast iron receptacle. A.Y. McDonald Curb Stop Receptacle #5639

**Meter valves:** Use Ford KV23-342W lockable meter angle valve, 1 inch flare x ¾ inch meter thread. On existing ¾ inch service lines use Ford KV23-332W lockable meter angle valve ¾ inch flare x ¾ inch meter thread.

**Over →**

***Approved equal means approved by the City in writing. All underground work shall be inspected and approved before covering.***

**METER ACCESSORIES**

1. **Bypass.** A valved bypass line shall be provided for every water meter installation 2 inch diameter and larger so that the meter can be removed without interrupting service to the customer. It is recommended that valved bypass lines be provided for smaller meter installations where interruption of service is not acceptable to the customer. A inline lockable valve will be installed on the bypass line. All valved bypass lines shall be closed and sealed by the Water Department. If the seal is broken for any reason except as may be authorized by the Water Department, the customer shall be billed for unauthorized use. All bypass lines will be approved by the Water Department before installation.
2. **Jumper wire.** All water services shall have a jumper wire installed to ground the water service when the water meter is removed for testing or maintenance. The use of the water service as a primary ground for the electrical, telephone, cable TV, or other systems is prohibited.
3. **Water Meter Supports.** If plastic or PVC pipe materials are used for the interior plumbing, the water meter shall be supported or mounted in an approved manner. Acceptable supports include a shelf attached/anchored to the building wall or a steel support anchored in the concrete floor. The support shall be of sufficient strength to hold the weight of the meter and accessories.

**PROTECTION OF METERS**

1. Protection of the meter from freezing or any other damage shall be the obligation of the owners and occupants of the premises for which installed. Cost of any repairs for damaged meters shall be assessed to the property owner.
2. Unprotected meters during construction will only be set between May 1<sup>st</sup> through October 20<sup>th</sup>. If the construction is protected from the elements, a meter can be set at any time.

**TAPPING**

Direct tap services on ductile iron pipe 6” or greater. Saddle ductile iron pipe 4” or less. All taps will be tapped live. No shutdowns of water mains for taps will be permitted.

**SERVICE LINES**

No couplings allowed on water service line unless over 100 feet in length from curb stop box. If placed in same trench as sewer. Water line shall be placed 18” above and 18” over on solid shelf. If this cannot be done, water line will be dug in separate trench 10’ from sewer ditch. Make sure connections are leak free on both sides of curb stop and at meter valve. During inspection water line will be turned on and allowed to flush for a minimum of 30 seconds or more depending on size of line, length and time necessary to flush out any debris and blow off air in line. Line will then be turned off at meter valve and connections and line checked for leaks.

**METER INSTALLATION**

A floor drain shall be located in the room containing the meter. Place meter within 30” and no more than 42” from where the water service first penetrates the floor or wall of structure. There shall also be a valve installed on the discharge side of the meter.