NEW THIS YEAR
PVC WATER MAIN!

C 900 PVC (DR 18) will be allowed for residential and commercial development under the following:

- More than 1,000-ft from contaminated site.
- Less than 100 PSI System pressure
- Sizes 4 thru 12 inch, Open-Trench installation
- Protect from extended exposure to UV light.
- Joint Deflection 4-inches max.
- Pipe cannot be bent, Fittings must be used.
- Same Tapping Saddles as DIP
- NO PVC for Hydrant Branches, CIP Projects (City Contracts) or Industrial sites.
Other CR SUDAS Water Specification Revisions

- Ductile Iron Pipe (DIP) Class 52 is min. thru 24-in.
- Maintenance Bonds: Now also 4 Years for Water
- Valve Boxes: Heavy Duty, Min. 1/4-inch thick wall (3-piece)
- Water Service Saddles: Single or Double Strap (stainless) w/ 4 bolts Same Saddle for DIP & PVC
- Cor-Blue Bolts (many contractors already using these)
REMINDER

‘STAND-BY’ REQUIRED

‘Stand-By’ Water Personnel are REQUIRED On-Site when working within 6-feet of LIVE Water Mains 16-inch or larger. Call: 319-286-5950 to schedule

HDD Operations:
• Vac. Excavate & Expose Main

Open Cut Construction
• Use Caution to expose Main

Designers have been requested to show Water and Sewer Utilities on their plan and include ‘NOTES’ regarding ‘Stand-By’.
Water Main Cathodic Protection

Cedar Rapids has been installing Cathodic Protection (CP) on NEW Water Mains 16-inch and Larger.

- Cathodic Protection Specifications are contained in the CR SUDAS Supplement, Sec. CR-5910
- Water Division will provide 4-hr Installation training; You MUST HAVE your CP Materials.
- Our CP Consultant will provide operational testing at Punch List time.
- CP Must Function Properly to be eligible for payment.
General Reminders:

Water NOTES are Modified

NOTES on CIP Plans are Coordinated with SUDAS:

- Water Inspection Services are provided by Water Division Personnel;
- Contact Water Engineering: Call: 319-286-5950
- or e-mail: Water-Engineering-Admin@Cedar-Rapids.Org

Five (5) days notice required for:
- Water Construction Start

48-hour MINIMUM notice required for:
- Water Shut-Down or Supply Interruption

24-Hour MINIMUM notice required for each of the following:
- Water Tap
- Water Main Fill & Flush
- Bacteria Testing
- Pressure Testing
- Other Water System related services.

Water Engineering issues Work Orders for Water Inspectors who will contact you.
Water Construction Start

Do Not Call for Construction Start until your Water Material Submittals (Pipe, Gaskets, Valves, Fire Hydrants and CP Materials) have been approved. Pay attention to the NOTES (Previous Slide) regarding how much notice is needed to schedule staff to the job.

- 5-days Notice for Water Construction Start
- 48-hours for Service Interruption (Shut-Down)
- 24-hours for Taps and Testing Services
Water “Shut-Down” Scheduling

Except for Emergencies, the Water Dept. is REQUIRED to give our Customers 24 hour notice if their service will be interrupted.

Water Maintenance personnel generally go door-to-door to make these notifications.

• If you have a ‘Shut-Down’ scheduled and need to change it, PLEASE notify us ASAP. Do Not wait for the Valve Crew to show up at the job site. They could be working elsewhere.

• Scheduled Service Interruptions for some business and industry customers may take weeks to coordinate.
Water Inspection

Poly-Wrap No Cuts or Tears.
Dig Bell Hole with machine!
Stop Cutting Poly at the Bell.
Do not pre-wrap and stack pipe
Lift wrapped pipe with Strap or Padded Forks.

TESTING:
Be prepared & ready at requested time.
• Flush & Fill. 24-hr wait before next step
• Bac-T Tests (48 hours for results)
Chlorine injection required if you fail Bac-T two times.
• Pressure Testing. Have equipment ready
Water Main Flushing
Reminder that Contractors are responsible to furnish their own equipment for: Water Main Pressure Testing and Flushing.

- This equipment may include: Pumps, Fittings, Hoses, Diffusers and De-Chlorination Chemicals.
- Pressure testing or flushing may be cancelled if contractor does not have adequate equipment and manpower available.
- Be ready at the time you requested. Have a plan for disposal of flush water, have hoses laid out. Call inspector if you are running late.
Water Service Lines & Curb Stops

Lead services will be replaced whenever encountered during construction even if there is no water scope included in project.

Notify PW or Water Inspector when you encounter lead service lines.

- Meter Shop will be inspecting service lines
- New, replaced or repaired lines are inspected; including repairs made to the customer side.
- New service lines are to have 4-feet of Polywrap
- Excavation is to remain open until inspected
- Call Meter Shop (319) 286-5930 for inspection.
Valves in Sidewalk

On occasions when the Water Service ‘Stop Box’ will fall in a new sidewalk, plan to install a 9-inch locking lid Meter Box cover over the top of the Stop Box.

These are NOT rated for traffic so they should not be used in streets or driveways.

For City CIP Projects, the Water Division will furnish a 9-inch Diameter Locking Lid ‘Meter Box’ Cover for Service Stop Boxes. Provide the City CIP Number when you contact the Meter Shop (319) 286-5930 ask for Lonnie or Craig.

If you are installing sidewalk for a homeowner or homebuilder (non-City project), You can purchase these covers from your local Pipe Materials Supplier.
Thank You!

Questions?

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