



IOWA DEPARTMENT OF NATURAL RESOURCES  
 WATER SUPPLY ENGINEERING SECTION  
**CONSTRUCTION PERMIT APPLICATION**  
 SCHEDULE-2a, Water Mains, General

Date Prepared  _____	Project Name/Description  _____
Date Revised  _____	

1. List the purpose of the project (e.g., expand service area, improve system pressures or flows): \_\_\_\_\_

2. Does the water system have adequate source, treatment, and storage capacity to serve the additional demand resulting from the proposed project?  N/A  Yes  No  
**If No, explain:** \_\_\_\_\_

3. Proposed Piping Inventory: (attach additional sheets if necessary)

Material (Designate Alternates)	AWWA or ASTM Standard	Pipe Class	Pipe Pressure Rating (psi)	Maximum System Pressure (psi)	Nominal Diameter (inches)	Length of Water Main (feet)

4. Provide an aerial image or screenshot from Facility Explorer showing any leaking underground storage tank (LUST) sites within 500 feet of the proposed water main(s). Known LUST sites are shown at <https://facilityexplorer.iowadnr.gov/facilityexplorer>. Are there any LUST sites within 500 feet of the proposed water main?  Yes  No  
**If "Yes",**  
 a. List the LUST sites within 500 feet: \_\_\_\_\_  
 b. List the LUST sites with plumes the proposed water main passes through: \_\_\_\_\_  
 Archived notification forms and plume maps may be obtained by contacting the DNR Records Center at 515-725-8480. If a notification was not prepared for a LUST site, the Records Center will provide you with pertinent documentation.  
**NOTE:** Where distribution systems are installed in areas where groundwater is contaminated by organic compounds, pipe and joint materials which do not allow permeation of the organic compounds must be used.

5. This project will result in a minimum pressure of \_\_\_\_\_ psi to develop in the system under all conditions of flow. (e.g., peak instantaneous demand, fire flow, and flushing flow). Source of pressure data \_\_\_\_\_

6. What is the minimum size of water main serving fire hydrant? \_\_\_\_\_ Inches  N/A

7. What is the minimum size of fire hydrant lead? \_\_\_\_\_ Inches  N/A

8. Are all hydrant leads valved?  N/A  Yes  No

9. Minimum depth of cover from the springline of the pipe: \_\_\_\_\_ Feet

10. Does each water main deadend have a fire hydrant, flushing hydrant, or blow off for flushing purposes?  N/A  Yes  No

11. Minimum horizontal (center to center) separation distance between water main and existing or future sanitary sewer \_\_\_\_\_ ft., storm sewer \_\_\_\_\_ ft.

12. Where water mains cross over sewers, the minimum vertical separation distance (edge to edge) is \_\_\_\_\_ inches.

13. Where water mains cross under sewers, the minimum vertical separation distance (edge to edge) is \_\_\_\_\_ inches.

14. Is there a history of corrosive problems with buried pipes in the project area?  Yes  No  
**If Yes, explain corrosion protection measures:** \_\_\_\_\_

15. Will this project utilize temporary water mains to serve connections during construction?  Yes  No  
**If Yes, temporary water mains shall be disinfected, flushed, and tested for bacteriological quality in accordance with AWWA C651 prior to use, shall be certified by an ANSI accredited third party for conformance with NSF/ANSI Standard 61 specifications, and shall be properly equipped with appropriate backflow prevention devices.**

16. Are DNR-approved Standard Specifications being applied on this project?  Yes  No  
**If Yes, Approved Standard Specifications of (name of municipality or firm) \_\_\_\_\_**

Date Approved: \_\_\_\_\_

**If No, Schedule 2b must also accompany this application.**

**NOTE:** If the applicant for this Construction Permit is someone other than the supplier of water (the water utility), a properly executed **Water Supply Service Agreement (DNR Form 542-3121)** must accompany this application.

**NOTE:** If this is a joint Water –Wastewater project, a construction permit application should be submitted separately to the Wastewater Engineering Section of the Iowa Department of Natural Resources.