



March 1, 2021

MACKENZIE REED-KADOW CLERK  
CITY OF MANITOWOC  
900 QUAY ST  
MANITOWOC WI 54220

Project Number: W-2021-0073  
PWSID#: 43603648  
DNR Region: NER  
County: Manitowoc

### WATER MAIN PLAN AND SPECIFICATION APPROVAL

The Wisconsin Department of Natural Resources, Division of Environmental Management, Bureau of Drinking Water and Groundwater, is conditionally approving plans and specifications for the following project. An engineering report or information of sufficient detail to meet the requirements of s. NR 811.09(3), Wis. Adm. Code, was submitted along with the plans and specifications.

**Water system name:** Manitowoc Waterworks

**Date received:** 01/26/2021

**Engineering firm:** Manitowoc Public Utilities

**Professional Engineer:** Robert D. Michaelson, P.E.

**DNR Plan Reviewer:** Jim Witthuhn, 101 South Webster Street, Madison, WI 53703, (608) 225-9283, james.witthuhn@wisconsin.gov

**Location(s):** Water main replacement on Quay Street from South 8<sup>th</sup> Street to South 6<sup>th</sup> Street

Private water mains and water services may require plan review by Department of Safety and Professional Services (DSPS), and are not reviewed or approved by the Department of Natural Resources. Service connections that will have static pressures exceeding 80 psi should have an individual pressure reducing valve installed in accordance with DSPS requirements. Contact DSPS at 608-267-9421 for further information on potential need for plan review.

Alternative design criteria were requested and are being granted to exceed the maximum separation distance for hydrants (s. NR 811.71(1), Wis. Adm. Code) in the project area.

#### Alternative Design Criteria:

1. Hydrant spacing will exceed the maximum spacing of 600 feet pers s. NR 811.71(1), Wis. Adm. Code. Hydrants have been spaced at a maximum of 700 feet intervals. The City of Manitowoc's Fire Department Chief indicate the fire department has the equipment to handle the proposed spacing.

**Condition(s) of approval:**

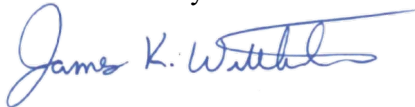
1. A resident project representative shall be designated by the water supply owner or by the agent retained by the owner. The resident project representative shall be knowledgeable regarding the proposed construction and be able to ensure the improvements are being constructed in accordance with the department approved plans, specifications, and conditions of the approval. The project representative shall be present on the work site as need to assure proper construction and installation of the improvements. (s. NR 811.11, Wis. Adm. Code)
2. After construction, maintenance, repair or modification, waterworks facilities shall be disinfected by procedure outlined in the applicable A.W.W.A. standards for wells, water mains, storage facilities or treatment facilities. Waterworks may not be placed in service until bacteriological samples have established that the water is bacteriologically safe. (s. NR 810.09(4), Wis. Adm. Code)
3. Whenever water mains cross over sewers a minimum vertical clearance of 6 inches from the bottom of the water main to the top of the sewer shall be maintained, and wherever water mains cross under sewers a minimum vertical clearance of 18 inches from the top of the water main to the bottom of the sewer shall be maintained, and at crossings one full length of water pipe shall be centered on the sewer so that both joints are as far from the sewer as possible. (s. NR 811.74 (3), Wis. Adm. Code)
4. Water mains shall meet horizontal separation distance requirements from sanitary and storm sewers and manholes and according to s. NR 811.74(2)(b), Wis. Adm. Code.
5. The appropriate Water Management Specialist from the Department shall be contacted to determine whether a Chapter 30 permit is required. Any required Chapter 30 permit shall be obtained prior to construction. (ch. 30, Wis. Stats.) County designation, contact information, and additional guidance can be found by going to <http://dnr.wi.gov/topic/Waterways/contacts.html> or calling the waterway and wetland information line at (920) 662-5452.

**Approval constraints:** The project was reviewed in accordance with s. 281.41, Wis. Stats. for compliance with Chapters NR 108, NR 810 and NR 811, Wis. Adm. Code and is hereby approved in accordance with s. 281.41, Wis. Stats. subject to the conditions listed above. This approval is valid for four years from the date of approval.

**Appeal rights:** If you believe that you have a right to challenge this decision, you should know that the Wisconsin Statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. Requests for contested case hearings must be made in accordance with ch. NR 2, Wis. Adm. Code. Filing a request for a contested case hearing does not extend the 30 day period for filing a petition for judicial review. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you must file your petition with the appropriate circuit court and serve the petition on the Department within 30 days after the decision is mailed. A petition for judicial review must name the Department of Natural Resources as the respondent.

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES

For the Secretary

A handwritten signature in blue ink that reads "James K. Witthuhn". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

James K. Witthuhn, PE  
Public Water Engineering Section  
Bureau of Drinking Water and Groundwater  
(608) 225-9283

cc: Robert D. Michaelson, P.E. - Manitowoc Public Utilities (by email)