

**CITY OF ROCK FALLS, ILLINOIS  
WATER SYSTEM IMPROVEMENTS  
IEPA PROJECT NOS. IL175718, 5719, 5720, 5721, and 5722**

**IEPA PUBLIC WATER SUPPLY  
REVOLVING FUND LOAN PROGRAM  
PROJECT SUMMARY AND PRELIMINARY  
ENVIRONMENTAL IMPACTS DETERMINATION**

**PUBLIC HEARING  
DECEMBER 15, 2020  
6:30 P.M.**



**WILLETT HOFMANN  
& ASSOCIATES INC**

ENGINEERING ARCHITECTURE LAND SURVEYING

809 EAST 2ND STREET, DIXON, IL 61021-0367  
T: 815-284-3381 DESIGN FIRM: #184-000918

## **INTRODUCTION**

The purpose of this Public Hearing is to satisfy a public participation requirement for eligibility in the Illinois Environmental Protection Agency (IEPA) Public Water Supply Revolving Fund (PWSRF) Loan Program for the Water System Improvements projects.

Documents available on the Water System Improvements projects that are available for public inspection are:

1. Project Plan Report
2. IEPA Project Summary and Preliminary Environmental Impacts Determination letter dated November 10, 2020.

The IEPA has reviewed the Project Plan Report and has determined the project to be technically sound and cost effective. The IEPA will approve the Project Plan at the close of the public comment period unless new information is received from public comments that would cause the IEPA to reconsider.

## **PROJECT NEED**

The City has invested significantly in their water supply, water treatment, and water storage facilities over the last 20 years but needs to put a greater emphasis on the water distribution system. According to the Illinois State Water Survey, the City's water system was originally constructed in 1885, so the existing water distribution system has some water mains that are over 100 years old. An IEPA Water System Inspection Report from May 20, 2016 indicated that some water mains are undersized and may not provide the required minimum system pressure. The report also noted that the unaccounted-for water of the system is greater than 15%, which indicates that leaks are present in the water distribution system. The City records the location of all water main repairs and the proposed water main replacements are located in frequently repaired sections of the water distribution system. The water main replacements will eliminate aging water mains and reduce the amount of unaccounted-for water use.

## **PROJECT SCOPE**

The recommended improvements will include the replacement of approximately 30,775 linear feet of aging, undersized, deteriorated water main and appurtenances over a 5-year period. The locations for the proposed improvements for each phase are shown on the attached map and are as follows:

### **Phase I – 5,470 L.F. of Water Main and Appurtenances**

Project 1: 3<sup>rd</sup> Avenue, W. 6<sup>th</sup> Street, and W. 3<sup>rd</sup> Street – 1<sup>st</sup> Avenue to W. 2<sup>nd</sup> Street

Project 2: 2<sup>nd</sup> Avenue – 1<sup>st</sup> Avenue to W. 5<sup>th</sup> Street

Project 3: Hudson Drive – 5<sup>th</sup> Avenue to W. 10<sup>th</sup> Street

Project 4: W. 13<sup>th</sup> Street – 5<sup>th</sup> Avenue to 1<sup>st</sup> Avenue

Project 5: 6<sup>th</sup> Avenue – W. 14<sup>th</sup> Street to W. 13<sup>th</sup> Street

### **Phase II – 5,740 L.F. of Water Main and Appurtenances**

Project 6: 7<sup>th</sup> Avenue, 8<sup>th</sup> Avenue, and W. 10<sup>th</sup> Street – W. 12<sup>th</sup> Street to W. 10<sup>th</sup> Street

Project 7: Flock Avenue – Roberts Street to U.S. Route 30

Project 8: W. 14<sup>th</sup> Street – 13<sup>th</sup> Avenue to 12<sup>th</sup> Avenue

Phase III – 6,635 L.F. of Water Main and Appurtenances

- Project 9: W. 18<sup>th</sup> Street, 12<sup>th</sup> Avenue, and W. 17<sup>th</sup> Street – East of 13<sup>th</sup> Avenue
- Project 10: 13<sup>th</sup> Avenue, W. 20<sup>th</sup> Street, and 11<sup>th</sup> Avenue – North of W. 21<sup>st</sup> Street
- Project 11: Bennett Drive – 14<sup>th</sup> Avenue to U.S. Route 30
- Project 12: 10<sup>th</sup> Avenue – W. 10<sup>th</sup> Street to W. 7<sup>th</sup> Street
- Project 13: 7<sup>th</sup> Avenue – W. 6<sup>th</sup> Street to W. 7<sup>th</sup> Street

Phase IV – 5,950 L.F. of Water Main and Appurtenances

- Project 14: W. 8<sup>th</sup> Street – 6<sup>th</sup> Avenue to 5<sup>th</sup> Avenue
- Project 15: Stanley Court to Garden Circle
- Project 16: E. 13<sup>th</sup> Street and Avenue C – Mary Avenue to E. 11<sup>th</sup> Street
- Project 17: Burlington Terrace and E. 6<sup>th</sup> Street – E. 5<sup>th</sup> Street to Avenue C
- Project 18: Smith Court and Goodell Court
- Project 19: Avenue C – Dixon Avenue to E. 4<sup>th</sup> Street
- Project 20: Avenue E – E. 7<sup>th</sup> Street to E. 6<sup>th</sup> Street

Phase V – 6,980 L.F. of Water Main and Appurtenances

- Project 21: Circle Drive to Martin Road – North of Dixon Avenue
- Project 22: Wiker Drive – Franklin Drive to Dixon Avenue
- Project 23: Marsha Lane – Meadow Court to Dixon Avenue
- Project 24: Keith Drive to Wiker Drive

**PROJECT COST ESTIMATE**

The probable cost estimate for each phase of the Water System Improvements is as follows:

|                     | COST        |
|---------------------|-------------|
| Phase I             | \$2,032,000 |
| Phase II            | \$1,982,000 |
| Phase III           | \$2,159,000 |
| Phase IV            | \$1,555,000 |
| Phase V             | \$1,941,000 |
| Total of all Phases | \$9,669,000 |

**PROJECT FINANCING AND IMPACTS TO USERS**

The project will be funded with an IEPA Public Water Supply Revolving Fund Loan. The IEPA loan will be a 20-year loan for each phase. The current IEPA loan interest rate is 1.35% and the annual loan repayment for all five phases would be approximately \$551,919, or approximately \$12.17 per month per user.

Currently, the City is eligible for a reduced interest rate of 1.01% (Small Community Rate), \$400,000 in principal forgiveness, and a loan term up to 30 years. The debt service charge would be approximately \$7.90 if these terms are utilized. Whichever terms the City agrees to will result in the debt service charge being added to the existing monthly user fees in order to repay the loans.

**ENVIRONMENTAL IMPACTS**

1. Illinois Department of Natural Resources (IDNR)

State Historic Preservation Office (SHPO) has concluded that adverse effects are unlikely. IDNR EcoCAT indicated the presence of the Northern long-eared bat within the project area and if trees are to be removed, a field visit should be performed by a qualified individual to determine if suitable trees are present that will provide habitat for the Northern long-eared bat. If suitable trees are present to provide habitat, they should be flagged and/or clearly marked and not be cut April 1<sup>st</sup> – October 31<sup>st</sup>.

2. U.S. Army Corps of Engineers (USACE)

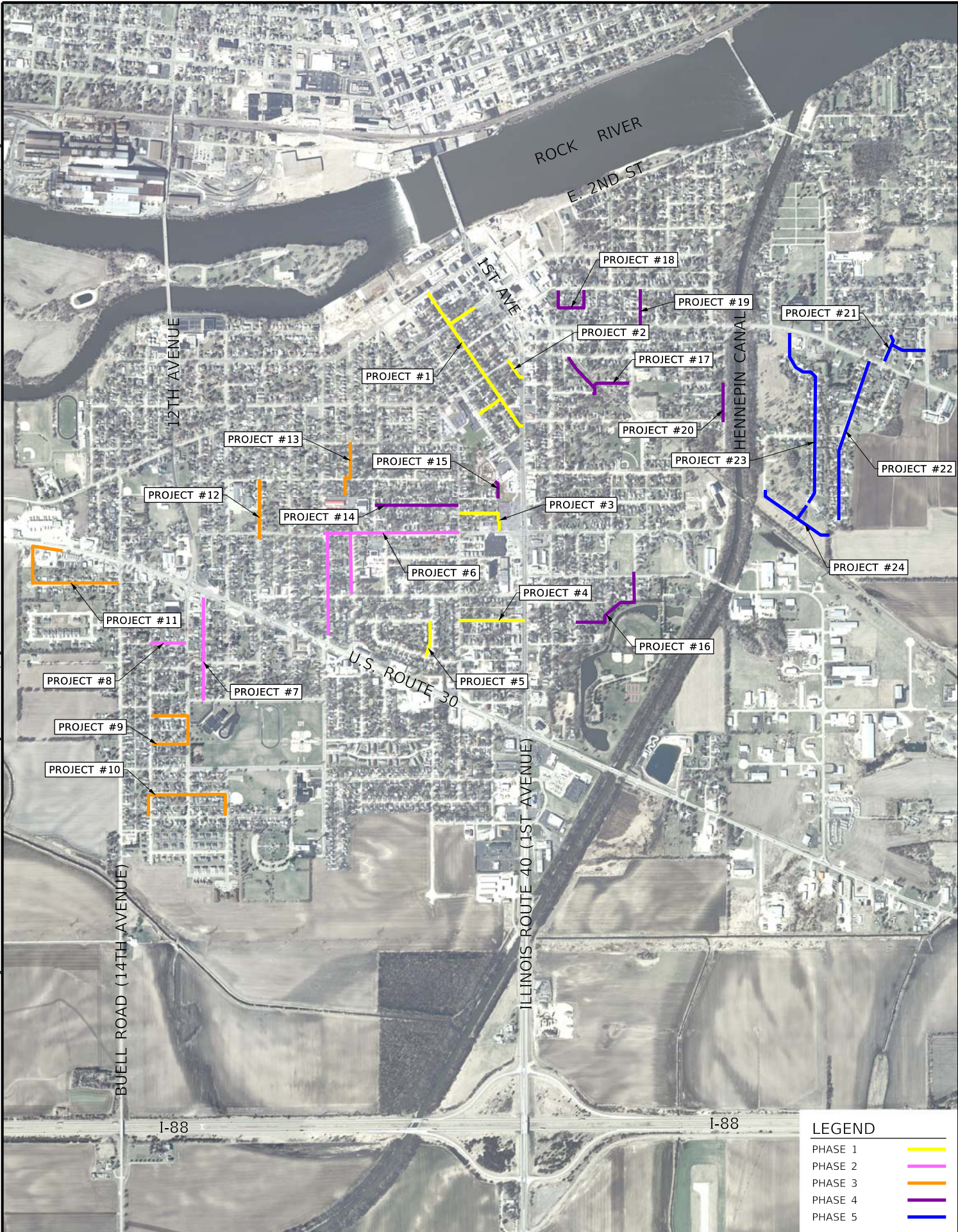
No construction will occur at or near a body of water that will require review or sign-off from USACE.

**PROJECT SCHEDULE**

| EVENT              | Phase I        | Phase II   | Phase III  | Phase IV   | Phase V    |
|--------------------|----------------|------------|------------|------------|------------|
| Construction Start | September 2021 | March 2023 | March 2024 | March 2025 | March 2026 |
| Construction End   | June 2022      | Dec. 2023  | Dec. 2024  | Dec. 2025  | Dec. 2026  |

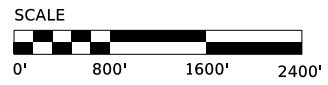
**PUBLIC COMMENTS**

The City will receive public comments concerning this project for a period of 10 days after the public hearing. Public comments can be made in writing to Ms. Michelle Conklin, Business Office Supt., City of Rock Falls, 603 W. 10<sup>th</sup> Street, Rock Falls, IL 61071 or to Ms. Lanina Clark, Infrastructure Financial Assistance Section, Illinois Environmental Protection Agency, Bureau of Water, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, IL 62794-9276, (217) 782-2027.



**LEGEND**

|         |  |
|---------|--|
| PHASE 1 |  |
| PHASE 2 |  |
| PHASE 3 |  |
| PHASE 4 |  |
| PHASE 5 |  |



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**PROJECT PLAN REPORT - WATER SYSTEM IMPROVEMENTS**

EXHIBIT D - PROJECT LOCATION MAP