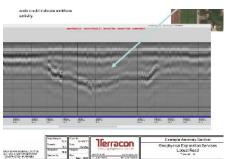
## LOCUST ROAD IMPROVEMENTS

DECORAH, IOWA







COMPLETION DATE 2020

## **REFERENCE**

Jeremy Bril, PE City Engineer P 563.382.3651 cityengineer@decorahia.org

## **PROJECT DESCRIPTION**

McClure was contracted in August 2019 by the City of Decorah, lowa to prepare preliminary and final plans for the reconstruction of approximately 1.3 miles of roadway and improvements to storm sewer and construction of sidewalk. The work involves replacing all culverts and pipes, providing erosion control in a drainage ditch in limestone that is being eroded due to severe water flows and reconstructing the existing 24 feet roadway to a new 40 feet wide section with bike lanes on both sides within the available right-of-way. The City and Alliant Energy are also collaborating to install a joint utility trench under the roadway to place all overhead utilities underground. The project is a part of the SWAP funding. McClure was responsible for all aspects of the design from traffic studies, concept preparation, survey, geotechnical, preliminary and final roadway and traffic design, permitting, etc. Construction was completed in 2020 and road was opened for traffic in November 2020.

McClure was also responsible for designing the drainage and stormwater system to address not only the additional stormwater due to a wider pavement surface but also the global stormwater and flooding issues that were being caused due to development in the surrounding area since the original road was constructed. This increased flow has caused severe erosion along ditch channels through limestone bedrock and created a significant drop of about 10 feet at a culvert outlet. To address these issues, project plans propose a series of gabion walls and erosion stone ditch protection. This erosion protection will continue for a length of approximately 600 feet along the drainage ditch to prevent further erosion and stabilize the ditch banks. Additionally, to avoid impacts to the existing right -of-way, the 25 feet high embankment along this culvert is being proposed to be reconstructed as a reinforced soil slope.

## **PROJECT HIGHLIGHTS**

- Street lighting, rumble strips in the rural sections, flashing radar-controlled speed limit signs, and a lowered speed limit throughout the corridor.
- The majority of the work will be performed under local detours with truck traffic diverted along a global detour.
- City received praise from Decorah Historic Preservation Commission for preventing impacts to historic "Goat Cave" during design and construction.