

SCOTT COUNTY ENGINEER'S OFFICE

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MEMO

TO: Mahesh Sharma
County Administrator

FROM: Angie Kersten, P.E.
County Engineer

SUBJ: Professional Design Services for Storm Sewer Analysis in Park View

DATE: July 14, 2020

One of the top priorities in the Scott County Iowa Strategic Plan for FY 2021 and FY 2022 is to determine Park View's service/infrastructure needs vs. resources to address. In order to prioritize and plan roadway improvements in Park View, it is critical that we know what the condition and capacity of the existing storm sewers are. The existing storm sewer ranges from 2 years old to over 50 years old. The storm sewer was designed by the developer not the County Engineer and was designed to control storm water runoff during the time period it was built. As surrounding land use has changed and design practices have improved based on data collected from past storm occurrences, it is reasonable to assume that the existing system is expected to carry more water than initially designed.

We requested proposals from four qualified engineering firms to provide professional design services for storm sewer analysis in Park View. The intent of this project is to determine the condition of the existing storm sewers, the existing capacity, the recommended pipe sizes based on current and future conditions, and incorporate the information into our existing GIS database. We received one proposal from IIW, P.C., of Davenport.

Based on their experience and expertise with similar projects, the experience of their proposed project team and key members, the overall quality of their deliverable documents, their ability to perform work within the given time-frame, and fees, I recommend that IIW, P.C., of Davenport, be selected to perform the professional design services for storm sewer analysis in Park View. The contract estimate is \$83,500 for storm sewer analysis. The scope of work includes:

- Assembling a Request for Proposal (RFP) document that characterizes pipe televising. Submitting the RFP to a minimum of three qualified contractors and administering the quoting process. I estimate that pipe televising will cost an additional \$15,000 - \$20,000.
- Performing a topographic survey of storm sewer outlet flow line elevation, storm structure rim elevation, storm sewer pipe elevation inside structures, cross sections of

existing drainage ditches and swales at key locations and known problem flooding areas. Combining information with provided Scott County GIS data and creating a comprehensive storm sewer map.

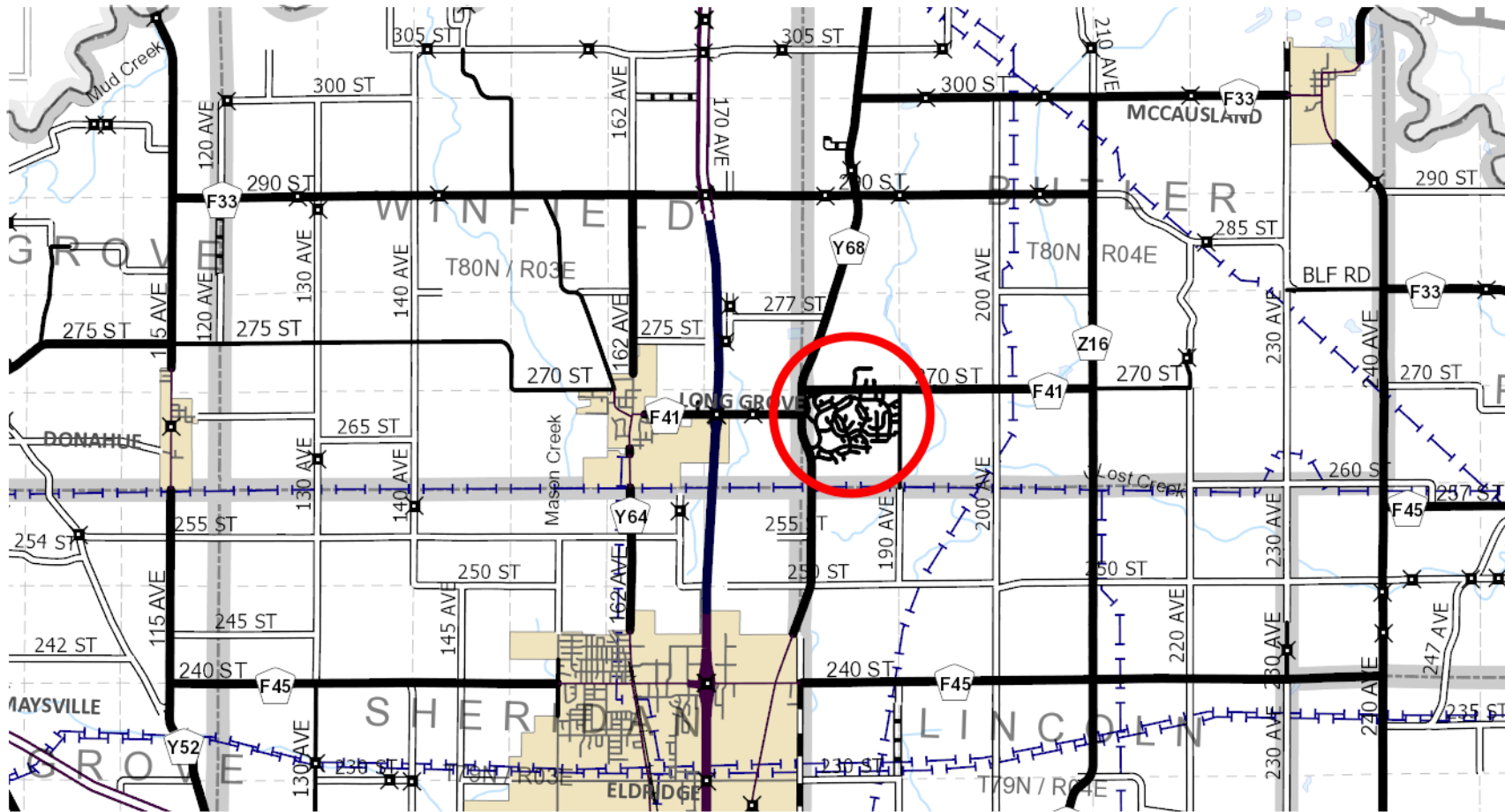
- Creating a model of existing pipe network including proposed improvements. Identifying areas of flooding concern and determining if pipes are undersized.
- Reviewing pipe condition assessment ratings from the televising data and modeling results. Prioritizing pipes for repair or replacement based on the condition of the pipes, impact of flooding, proximity to other failing pipes, location within the drainage basin, consequences of failure, and proximity to upcoming road work.

The fee to perform this work is included in our FY2020 and FY2021 budgets. I will carry-over the unspent budgeted dollars from FY2020 into FY2021 and amend the budget in FY2021. I recommend that Scott County enter into an agreement with, IIW, P.C., to perform this work. Included with this memo is a location map.

Park View Storm Water Drainage System Analysis

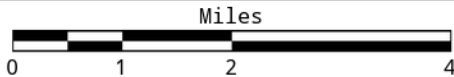
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Scott - ICEASB Easy Map



Feature Key

- | | | | | |
|-------------|------------|-----------|-----------------|----------------|
| Earth | Gravel | Seal Coat | County Pavement | State Pavement |
| Divided Hwy | Water | City | Township | Railroad |
| Bridge | County Hwy | State Hwy | US Hwy | |



THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT
THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY
THE BOARD OF SUPERVISORS ON _____
DATE

SCOTT COUNTY AUDITOR

R E S O L U T I O N

SCOTT COUNTY BOARD OF SUPERVISORS

July 23, 2020

APPROVAL OF THE CONTRACT TO PERFORM PROFESSIONAL DESIGN SERVICES
FOR STORM SEWER ANALYSIS IN PARK VIEW

BE IT RESOLVED by the Scott County Board of Supervisors as
follows:

Section 1. That Scott County enters into a contract with
IIW, P.C., to perform professional design services
for storm sewer analysis in Park View.

Section 2. That the County Engineer be authorized to sign
the contract document on behalf of the Board.

Section 3. That this resolution shall take effect
immediately.