

COUNCIL COMMUNICATION

	Number:	26-192	Meeting:	June 8, 2026
	Agenda Item:	7	Roll Call:	26-0648
	Submitted by:	Jonathan A. Gano, P.E., Public Works Director, and Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Approving Supplemental Agreement No.1 to the Professional Services Agreement (PSA) with HDR Engineering, Inc. for professional services for Citywide Sanitary Sewer System Inflow and Infiltration (I&I) Program, not to exceed \$486,917.

SYNOPSIS:

Recommend approval of Supplemental Agreement No. 1 Professional Services Agreement (PSA) with HDR Engineering, Inc., 1917 S. 67th Avenue, Omaha, Nebraska, 68106; Neil A. Graff, President for a total cost not to exceed \$486,917, based on hourly rates and reimbursable costs, to provide professional services for the Citywide Sanitary Sewer System Inflow and Infiltration (I&I) Program.

FISCAL IMPACT:

Amount: \$486,917

Funding Source: FY 2026-27 CIP, Page 104, Sanitary Sewer Lining and Repairs, SS049

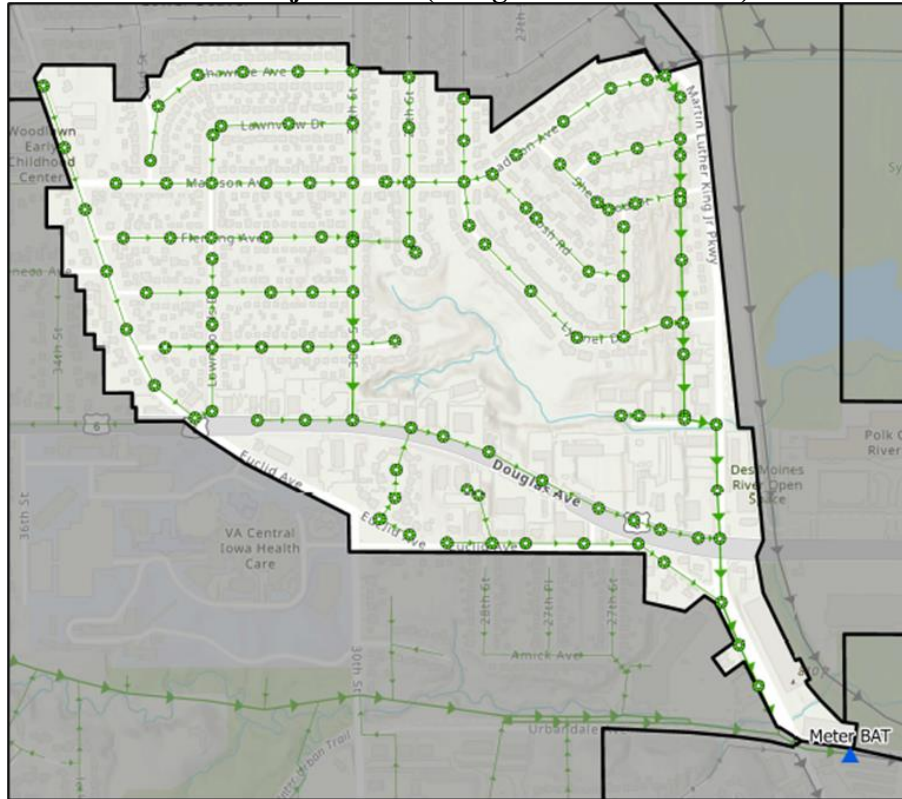
ADDITIONAL INFORMATION:

- Inflow & Infiltration (I&I) is the unintended entry of groundwater and stormwater into sanitary sewer systems. I&I strains existing sewer systems by increasing flows in the sewer systems, reducing capacity, increasing risks of sewer overflows, and increasing flow to the wastewater treatment facility resulting in higher operational and treatment costs.
- Inflow occurs when water directly enters the collection system through improper or unauthorized connections (such as sump pump connections, drain spout connections, open or faulty cleanout covers or manhole covers). Infiltration happens when groundwater seeps into the collection system through cracks, pipe defects, deteriorated joints, and other openings.
- It is economically infeasible to remove all I&I from a large, aging sanitary sewer system, so the City of Des Moines has begun the process of developing strategies related to initiating a Sanitary Sewer Inflow and Infiltration (I&I) Program.
- The initial phase of this project reviewed existing data related to the management, operations, and maintenance practices for the sanitary sewer collection system in order to develop an initial

prioritization of sewer basins, based on available data such as age of collection system, history of sewer overflows, rate of sewer flow per capita, and wet weather peaking factor.

- The Douglas Avenue sanitary sewer basin has been identified as the best option to move forward with development of a pilot project, as it ranked in the top three in prioritization metrics as well as being of a size and configuration that is best suited for sewer flow monitoring that is needed to assess the benefits of a pilot project.
- This next phase of the project being accomplished by Supplemental Agreement No. 1 will include development of a full Sanitary Sewer Evaluation Study (SSES) of the pilot project area which includes the following tasks and services:
 - Detailed precipitation and flow monitoring for the sewer basin,
 - Collection system modeling and capacity analysis related to wet weather flows,
 - Associated field work including tasks such as smoke testing, manhole inspections, and dyed water testing to identify sources of public and private inflow and infiltration,
 - Assist in the review and selection of hydraulic modeling software to be used,
 - Development of a hydraulic model for the existing sanitary sewer collection system within the pilot sewer basin,
 - Development of a dynamic model using the selected hydraulic modeling software to simulate current dry and wet weather conditions,
 - Calibration of the hydraulic model for dry weather and wet weather flow conditions,
 - Evaluation of the existing system capacity,
 - Development of a Private Entity I&I program that will include recommendations for addressing private sources of inflow and infiltration, and
 - Development of a conceptual plan and cost estimate for necessary improvements to the sanitary sewer collection system to address inflow and infiltration within the pilot project area.

Pilot Project Area (Douglas Avenue Basin)



PREVIOUS COUNCIL ACTION(S):

Date: September 8, 2025

Roll Call Number: [25-1179](#)

Action: [Approving](#) Professional Services Agreement with HDR Engineering, Inc. for professional services for Citywide Sanitary Sewer System Inflow and Infiltration (I&I) Program, not to exceed \$135,550. ([Council Communication No. 25-342](#)) Moved by Gatto to adopt. Second by Voss. Motion Carried 7-0

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

- Approval of recommended pilot project and normal actions for final design, bidding, and award of contract.

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