


COUNCIL COMMUNICATION

	Number:	21-127	Meeting:	March 22, 2021
	Agenda Item:	6D	Roll Call:	21-0448
	Submitted by:	Jonathan A. Gano, P.E., Public Works Director and Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Ordering construction of the following: Closes Creek Storm Sewer Improvements Phase 2A and 2B - Receiving bids, (4-6-21), and Setting date of hearing, (5-10-21). Construction Estimate - \$8,000,000.

SYNOPSIS:

Recommend the City Council order construction of the improvement and set dates to receive bids and hold a public hearing, as required by Iowa Code, utilizing the method of financing referenced below. This project provides for storm water improvements as part of the City's multi-year plan to mitigate flooding in the Closes Creek Watershed, and includes:

- *(Phase 2A)* Construction of two (2) 84-inch storm sewer culverts across Beaver Avenue and adding additional intake capacity along Beaver Avenue just east of Witmer Parkway.
- *(Phase 2A)* Construction of a 72-inch storm sewer culverts across 34th Street from Witmer Parkway to the north and east to the storm sewer outlet location just north of the intersection of 33rd Street and Mondamin Avenue.
- *(Phase 2B)* Construction of a storm water detention basin upstream of the intersection of 41st Street and College Avenue, between Perkins Elementary School and Leonard Place. A storm sewer box culvert will be construction from this new detention basin to north of Northwest Drive, providing a connection for the next phase of the Closes Creek Watershed Improvements.

FISCAL IMPACT:

Amount: \$8,000,000 City Engineer's Estimate

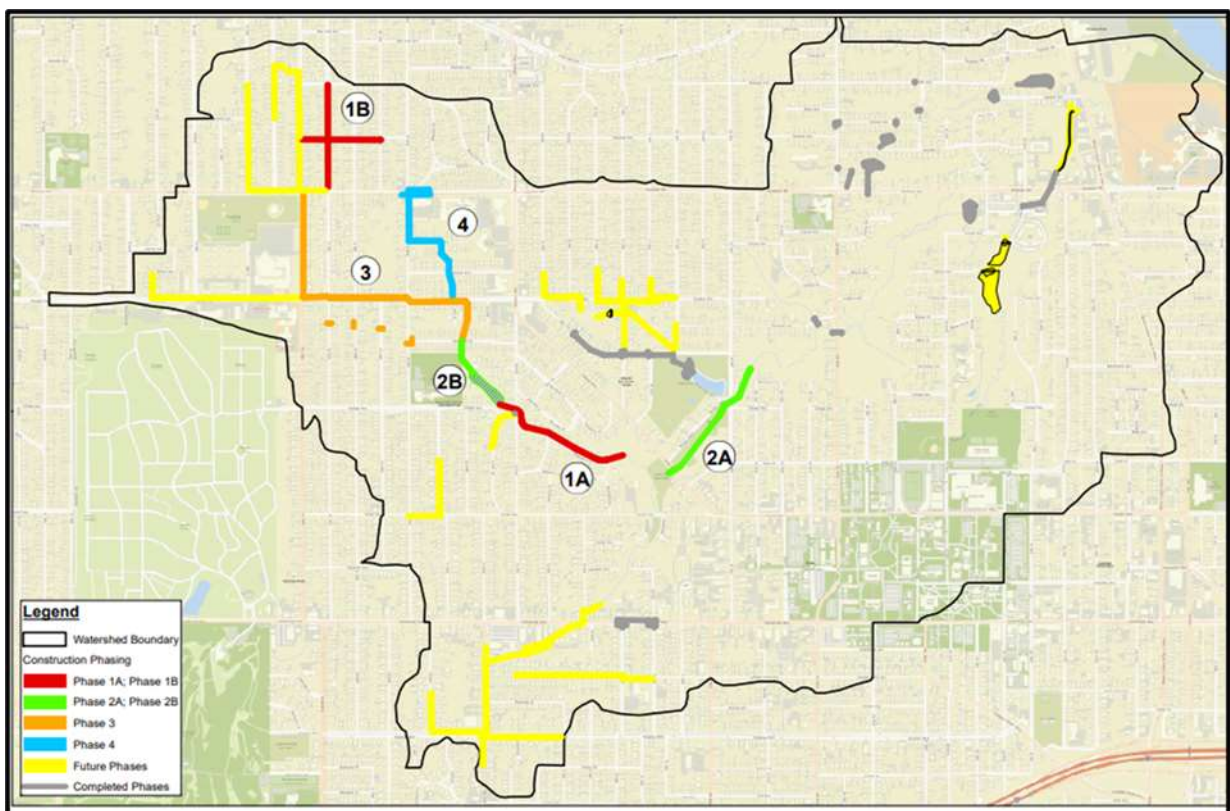
Funding Source: Recommended 2021-2022 CIP, Page Storm – 98, Closes Creek Watershed Improvements, SM068, Storm Water Utility Funds, Being: \$1,870,700 of Stormwater Utility Bonds Issued; \$6,000,000 Stormwater Utility Bonds to be issued; and the remaining \$129,300 from Des Moines Water Works.

ADDITIONAL INFORMATION:

- The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the Closes Creek Storm Sewer Improvements Phase 2A and 2B, 08-2021-003. The improvement includes constructing new Reinforced Concrete Box (RCB) storm sewer sizes 6-feet by 4-feet, 6-feet by 6-feet, and 8-feet by 6-feet, Reinforced Concrete Pipe (RCP) storm sewer sizes 15-inches to 84-inches, trenchless

storm sewer sizes 72-inches and 84-inches, precast manholes, cast-in-place manholes and intakes, Poly Vinyl Chloride (PVC) sanitary sewer sizes 10-inch, 15-inch, and 24-inch, Polypropylene Pipe (PP) storm sewer, cementitious storm sewer lining, Ductile iron (DI) water main, 4-inch and 6-inch Portland Cement Concrete (PCC) pavement, Hot-Mix Asphalt (HMA) paving, PCC curb and gutter, subdrain and footing drains, earthwork and grading, gabions, erosion control, fencing, restoration, and other associated and incidental items; all in accordance with contract documents, including Plan File Nos. 628-019/112, generally located from Beaver Avenue south of Witmer Parkway northeasterly to 33rd Street and Mondamin Avenue and also from College Avenue and 41st Street northerly to Northwest Drive.

- The estimated construction cost is \$8,000,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.



- With the stormwater rates approved in August of 2018, the City made a goal to construct the following phases in the Clones Creek Watershed Improvements Plan by the end of 2023:
 - *Phase 1A* - Maquoketa Drive Storm Sewer Box Replacement (*completed in 2020*).
 - *Phase 1B* - 47th and Holcomb Storm Sewer Improvements (*completed in 2020*).
 - *Phase 2A* - Construction of two (2) 84-inch storm sewer culverts across Beaver Avenue and adding additional intake capacity along Beaver Avenue just east of Witmer Parkway. Construction of a 72-inch storm sewer culverts across 34th Street from Witmer Parkway to the north and east to the storm sewer outlet location just north of the intersection of 33rd Street and Mondamin Avenue.
 - *Phase 2B* - Detention basin between College Avenue and Leonard Place and box culvert improvements from Leonard Place to Northwest Drive.

- *Phase 2C* - Detention basins north of Drake University, south of Hickman Road, east of 27th Street.
 - *Phase 3* - Storm sewer system replacement from Northwest Drive to Franklin Avenue and along Franklin Avenue, west to 48th Street. New storm sewer system on 48th Street from Franklin Avenue to Hickman Road. Partial reconstruction of Franklin Avenue from Beaver Avenue to 48th Street. Reconstruction of low point intakes on 44th Street, 45th Street, 46th Street and 47th Street, south of Franklin Avenue.
 - *Phase 4* - Storm sewer system improvements in the area north of Franklin Avenue, east of 44th Street, south of Hickman Road, and west of Beaver Avenue.
- On November 4, 2019, by Roll Call Number 19-1698, City Council approved the Professional Services Agreement with Snyder & Associates, Inc. for design phase services for Closes Creek Storm Sewer Improvements Phase 2A, 2B, 3, and 11.
 - A public informational meeting was held August 6, 2020, by Zoom online meeting platform, to present and discuss the Phase 2B Improvements.
 - A public informational meeting was held November 18, 2020, by Zoom online meeting platform, to present and discuss the Phase 2A Improvements.
 - This project includes construction of Phase 2A and 2B of the Closes Creek Watershed Improvements.
 - Construction of this project is anticipated to start early summer 2021 and be completed in the fall 2022.



PREVIOUS COUNCIL ACTION(S):

Date: November 4, 2019

Roll Call Number: [19-1698](#)

Action: [Approving](#) exception to request for proposal process for good cause and approving Professional Services Agreement with Snyder & Associates, Inc. for design phase services for the Closes Creek Storm Sewer Improvements Phase 2A, 2B, 3 and 11, not to exceed \$916,161. ([Council Communication No. 19-460](#)) Moved by Gatto to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Anticipated actions include public hearing, receive and file bids, designate lowest bidder, and approve contract and bond; also, partial payments to the contractor and final acceptance of work.

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