


COUNCIL COMMUNICATION

	Number:	19-467	Meeting:	November 4, 2019
	Agenda Item:	7B	Roll Call:	19-1695
	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: S.E. 9th Street Storm Water Pump Station and Improvements - Receiving bids, (11-19-19), and Setting date of hearing, (12-16-19). Construction Estimate - \$7,450,000.

SYNOPSIS:

Recommend the City Council proceed with 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. The improvement includes construction of a replacement storm water pump station at 1030 S.E. 9th Street on the north side of the Des Moines River levee and construction of a storm water detention basin at 505 S.E. 10th Street to mitigate flooding in the area of S.E. 11th and Maury Streets.

FISCAL IMPACT:

Amount: \$7,450,000 City Engineer's Estimate

Funding Source: 2019-2020 CIP, Page Storm – 6, Flood Mitigation Improvements, SM087, Being: State Sales Tax Increment

ADDITIONAL INFORMATION:

- The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the S.E. 9th Street Storm Water Pump Station and Improvements, 08-2017-006. The improvement includes construction of a storm water pump station including the installation of pumps, mechanical bar screens, electrical and controls building, standby power generator, modification of existing gatewell structure, 12-inch to 78-inch diameter Reinforced Concrete Pipe (RCP) storm sewer, Portland Cement Concrete (PCC) pavement, PCC sidewalk, earthwork, landscaping, Hot Mix Asphalt (HMA) trail, and miscellaneous associated work including cleanup, erosion control, and seeding of disturbed areas and other incidental items; all in accordance with the contract documents, including Plan File Nos. 612-102/195, with improvements located at 1030 S.E. 9th Street, 505 S.E. 10th Street and along the Maury Street from S.E. 10th Street to S.E. 11th Street.
- The estimated construction cost is \$7,450,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.

- The S.E. 9th Street Storm Water Pump Station and Improvements include:
 - Demolition of the existing storm water pump station at S.E. 9th Street, and construction of a new storm water pump station at 1030 S.E. 9th Street. The existing pump station, originally constructed in 1977, only has a single-pump system with 48 cubic-feet-per-second pump capacity (no redundancy or backup capacity), does not have a control building (equipment is exposed to the elements), does not have a backup electric power source, and the discharge lines are 3-feet below the levee line of protection. The new pump station will be a 3-pump system with approximately 140 cubic-feet-per-second total pump capacity, provide a control building and backup generator, and elevate the discharge lines to satisfy FEMA Levee System Accreditation Requirements.
 - Levee Improvements adjacent to the pump station site, including construction of a seepage relief trench and raising the section of levee to meet FEMA Levee System Accreditation Requirements.
 - Construction of a new storm water detention basin at 505 S.E. 10th Street (located north of Cohen Park at the southeast corner of Martin Luther King Jr. Parkway and S.E. 10th Street), approximately 1.5-acres in size and 8-feet in maximum depth, to provide approximately 50,000 cubic feet of storage for a 100-year (1% annual exceedance probability) storm event, to alleviate flooding in the area of 11th Street and Maury Street. An 8-foot wide sidewalk will be constructed around the south and east perimeter of the basin and grading will be completed for a future gazebo and fountain to expand park and recreational use north of Cohen Park.
 - Installation of a new 30-inch diameter storm sewer on Maury Street between S.E. 10th Street and S.E. 11th Street to improve storm water conveyance.
 - Replacement of a 78-inch depressed sewer (an inverted siphon) that is located underneath an existing sanitary trunk sewer that has recently been abandoned to improve storm water conveyance.



PREVIOUS COUNCIL ACTION(S):

Date: December 17, 2018

Roll Call Number: [18-2044](#)

Action: [Approving](#) Supplemental Agreement No. 2 to the Professional Services Agreement with Stantec Consulting Services, Inc. for additional design and construction administration services for the SE 9th Street Storm Water Pump Station, not to exceed \$301,000. ([Council Communication No. 18-671](#)) Moved by Boesen to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S):

Board: Urban Design Review Board

Date: January 24, 2017

Resolution Number: N/A

Action: Motion was made by Tim Hielkema to approve final design noting the Board's comments to rework the landscape design; seconded by Dennis Reynolds. Motion passed 6:0.

Board: Zoning Board of Adjustments

Date: January 25, 2017

Resolution Number: N/A

Action: Vote on Decision and Order to allow construction subject to conditions. Approved 6:0.

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

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

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