

 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date: September 25, 2017
	Agenda Item No. 42F Roll Call No. <u>17-1672</u> Communication No. <u>17-682</u> Submitted by: Benjamin R. Page, Park and Recreation Director

AGENDA HEADING:

Approval of funding for and purchase of a concrete block erosion matting system from International Erosion Control Systems (IECS), 3030 N. Rocky Point Drive, Tampa, FL 33607, Charles Chase, President at a total cost of \$30,228.50, for stream bank stabilization work to be performed along the Des Moines River and the Neal Smith Trail.

SYNOPSIS:

The Parks and Recreation Department requested the Finance Department Procurement Division to solicit bids for concrete erosion control mats to stabilize and protect an area of Des Moines River stream bank, beside a segment of the Neal Smith Trail reconstructed in 2016. International Erosion Control Systems (IECS) provided the low dollar compliant bid.

Continued erosion of the stream bank at this location has necessitated earthwork to restore approximately 10 feet of bank loss shown on the Figure below from 2000 (blue line on Figure) to 2014 (red line on Figure). With the earthwork complete, the reinvestment in this section of the Neal Smith Trail is secure; however, the bare clay soil will be eroded by the Des Moines River if not property protected.

A concrete block erosion control matting system was selected to protect the riverbank and purchased at a cost of \$23,684.00. The original purchase was under \$25,000 and did not require Council approval. Additional grade work at this site resulted in the need for more erosion control matting in the amount of \$6,544.50, increasing the total cost to \$30,228.50; as a result, City Council approval is required now to authorize the original and supplemental purchases.

FISCAL IMPACT:

Amount: \$30,228.50

Funding Source: FY 2018 CIP, Page Park Improvements – 8, Multi Use Trails, PK045, Being: \$30,228.50 in G.O. Bonds.

ADDITIONAL INFORMATION:



- Parks and Recreation Department staff coordinated with Engineering Department staff to evaluate alternative solutions for the stream bank repair. As an additional cost savings measure, it was proposed that the medium equipment operators from the Parks and Recreation Department perform the earthwork and install any erosion control measures.
- Another limiting condition of this project is the timeline, concrete erosion control mats need to be installed and protected below the normal water level. As a result, this project must be completed when water levels are at their lowest. Water levels typically reach the annual low point after flashboards are removed from the Center Street Dam in late October. Given this known factor and the unpredictability of fall precipitation regimes, this project must be completed within a two (2) to three (3) day time window near the end of October 2017.
- These limitations were carefully considered while developing bid specification for the erosion control product to be used here. Due to these limitations, it was critical that the specified concrete erosion control mat system use integral cabling. As can be seen in Figure 2 below, the integral cabling allows large 8-foot by 16-foot mats to be installed by equipment operators.

- As can be seen in Figure 3, equipment operators used excess clay soil from another site to build the stream bank back out to its pre-2000 condition.



PREVIOUS COUNCIL ACTION(S): NONE

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE

For more information on this and other agenda items, please call the City Clerk's Office at 515-283-4209 or visit the Clerk's Office on the first floor of City Administration Building, 400 E. Court Avenue Ste.116. Council agendas are available to the public at the City Clerk's Office on Thursday afternoon preceding Monday's Council meeting. Citizens can also request to receive meeting notices and agendas by email by calling the Clerk's Office or sending their request via email to cityclerk@dmgov.org.