COON CREEK WATERSHED DISTRICT

Request for Board Action

MEETING DATE: October 9, 2017
AGENDA NUMBER: 15
ITEM: Request to Seek Quotes-Peters-Anderson Bank Stab Project

FISCAL IMPACT: $20,850
POLICY IMPACT: Policy

REQUEST
Authorize staff to seek quotes for project

BACKGROUND
On January 31, 2007 the resident at 9760 Vale St Coon Rapids (LaVay) contacted the District concerning bank erosion on the property. Staff observed an approximately 125 linear foot slightly eroded bank along an outside bend of Coon Creek. Staff recommended the resident attempt vegetating the slope to encourage deep roots to prevent or at least slow future erosion. The bank was surveyed and photographed to monitor the rate of erosion. The site was added to the District’s list of potential bank stabilization projects in the event vegetation alone did not stabilize the bank.

On May 18, 2009 LaVay applied for Technical Assistance for bank erosion on the property. Staff inspected the site and found that LaVay was successful in establishing deep rooted vegetation stabilizing the upper portion of the slope (shoulder). However, the lower portion of the slope (toe) remained bare and continued to actively erode. Although the shoulder was vegetated it remained vulnerable without a stable toe to provide a supporting foundation. The active toe erosion will likely, in time, result in a catastrophic sloughing failure. Staff concluded that a hard armoring bank stabilization project is needed to stabilize the bank toe but the slow rate of erosion and distant proximity to any structures did not warrant a District project at that time. Staff installed bank pins to better monitor the rate of erosion and encouraged the continued effort to maintain vegetation on the slope until it can be armored.

At the May 23, 2011 Board meeting Kelly informed the Board of LaVay’s bank stabilization concerns. Kelly met with LaVay to evaluate the bank and it does not warrant a District project at this time. Featherston, LaVay’s neighbor, called inquiring about bank stabilization as well. District staff will meet with LaVay and Featherston to provide technical assistance in design, which can be taken to a contractor for private construction. The final design would be brought before the Board.

At the December 12, 2011 Board meeting Kelly updated the Board on this project in the Coon Hollow area in Coon Rapids. The bank issues do not rank high enough within the District for CCWD cover the project cost. The District worked with the property owners developing designs that were appropriate for their banks. LaVay has made the decision to not move ahead with her part of the project. Featherstone is still discussing the project.
with the District; however, he will have to fill out a permit application if he chooses to move ahead.

In March 2012 the neighboring property (Featherstone) completed a private bank stabilization with District technical assistance. A portion of this project was to install a stream barb on the upstream end to direct flow into the center of the channel and reduce erosion on the LaVay property.

In 2014 LaVay sold 9760 Vale Street Coon Rapids to Scott Peters and Sandra Anderson (Peters-Anderson). Staff has been in communication with the new landowners about the history of the erosion issue and options to consider to address the issue.

As part of the Comprehensive and Capital Improvement planning process, the LaVay (renamed Peters-Anderson) Bank Stabilization project was prioritized and budgeted $20,850 for work in 2017 as part of the District Bank Stabilization Program.

On September 12, 2016 the Board approved the 2017 budget. Including $20,850 for the LaVay (renamed Peters-Anderson) Bank Stabilization Project.

At the January 23, 2017 Board meeting the board received an itemization of projects commencing in 2017 including the LaVay/Anderson (Peters-Anderson) Bank Stabilization.

On September 28, 2017 Staff met with the residents of 9760 Vale St (Scott Peters and Sandra Anderson) to discuss the project. The residents agreed to the design and executed a cooperators agreement.

**ISSUES/CONCERNS**

**Project in the making.** This project was first identified 10 years ago as slight bank erosion. Since then the erosion has continued at the same slight rate. This has been a low priority site that has taken time to justify and complete.

**Project budget** of $20,850 for mobilization, boulder wall and access restoration.

**Engineers estimate** $23,517.50 engineers estimate is $2,667.50 over budget. The estimate utilizes higher than expected costs, includes a 15% contingency and an added stream barb that was not in the original budget.

**Access** to the project area is through a manicured lawn with an irrigation system. The awarded contractor may need to access on part of the neighboring property as well. A quote line item for site restoration is included to discourage any damages and will be repaired by the awarded contractor.

**Failure.** Although the erosion to date has been slow it has been gradually removing the foundation for the overall bank. The project is to armor the toe of slope to halt existing erosion and prevent catastrophic bank sloughing.
**Trees.** Currently no trees are anticipated to be removed. However certain trees may need to be trimmed or removed depending on how the awarded contractor plans to access the bank. The residents have agreed to tree removal as necessary.

**Stream barb** creates a local dead zone and diverts flow into the center of the channel. An upstream stream barb was added to the project design to prevent creek flow from eroding behind the boulder wall and causing further erosion.

**RECOMMENDATION**
Authorize staff to seek quotes from pre-qualified contractors
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