




LOWER PLATTE SOUTH natural resources district

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Memorandum

Date: July 11, 2023
To: Urban Subcommittee 
From: Mark Lindemann, District Engineer
Subject: Urban Subcommittee Meeting Minutes – July 2023

The Urban Subcommittee met on July 11, 2023, at the NRD Office, at 5:00 pm. Subcommittee members participating included John Yoakum- committee chair, Gary Aldridge, Melissa Baker, Deborah Eagan, Larry Ruth, Susan Seacrest, Stacie Sinclair, and Ray Stevens. Others participating included Board Chair Dave Landis, NRD staff Paul Zillig, Al Langdale, Mike Murren, Drew Ratkovec, and Mark Lindemann. Director Yoakum called the meeting to order at 5:00 pm. There were three (3) items the Subcommittee took action on and an update on two projects. A quorum was present for the meeting.

A. Consideration of Bids for the Lynn Creek Master Plan Stream Stability Project #9 – Near North 9th Street [ACTION] – Lindemann described the stream stability project is master plan project #9 for the Lynn Creek Watershed. The location is near North 9th and Nance Avenue, just 7 blocks west and 4 blocks south of the NRD office. This portion of Lynn Creek runs through the Parkview Apartments property and has undergone bank erosion and caused damage to a stormwater pipe outfall and irrigation lines. The apartment complex owners have been willing partners with the NRD on this project and have an agreement with the NRD for a temporary access easement during construction and also a permanent easement to maintain the channel in future. The NRD will also have a temporary easement in Roper Park with City Parks and Recreation for access and staging during construction. Intuition and Logic Engineering, Inc., who was involved in the original watershed master plan for Lynn Creek, developed the plans and specifications for the project. The advertisement for bids were posted in the Lincoln Journal Star on June 14th, 21st, and 28th, with the bid opening on July 6th, 2023, at 3:00 pm. Two bids received from contractors, with a low bid of \$240,960.00 from H.R. Bookstrom, Inc. The second bid from Yost Construction was \$318,190. Bids were reviewed by Mark Meyer at Intuition & Logic, who provided a bid recommendation memo noting that H.R. Bookstrom Construction, Inc. and its subcontractor have performed similar work and meets the qualifications for the project. Intuition & Logic has recommended the acceptance of the low bid of \$240,960.00 from Bookstrom Construction, Inc. Questions were asked if the project is budgeted for FY24 and possible reasons for the difference between the engineer's estimate and bids received. It was noted that the project is budgeted for FY24 and explained that inflation and increases in materials and construction costs and contractor availability continue to affect bid prices.

It was moved by Stevens, seconded by Baker, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the low bid of \$240,960.00 by H.R. Bookstrom Construction, Inc., for the Lynn Creek Master Plan Stream Stability Project #9.

B. Consideration of a Professional Services Agreement with Intuition & Logic Engineering, Inc. for Construction Management Services on Lynn Creek Master Plan Stream Stability Project #9 – Near North 9th Street [ACTION] – Lindemann noted that the stream stability project for Lynn Creek discussed in action item **A** will require construction management and observation services during construction. It was explained that in addition to typical construction methods (bank repair, rock armoring, and grade controls), installation of live stake planting and other vegetation are a critical component in the design for the project. The NRD has worked with Intuition and Logic Engineering, Inc. to provide a proposal for professional services, with a cost not to exceed \$37,740, to perform construction management and observation services through construction project completion. Questions were asked on the details of Intuition & Logic's scope that was provided in the proposal and their capabilities. It was noted that some of the generalized references in the scope refer to the more detailed specifications and that Intuition & Logic has had a very good track record with the NRD and City for stream stability projects.

It was moved by Seacrest, seconded by Stevens, and approved by the Subcommittee (7 voting "Yes", Aldridge "Not Voting") to recommend that the Board of Directors approve the Professional Services Agreement with Intuition & Logic Engineering, Inc., in an amount not to exceed \$37,740 for Construction Management and Observation Services for the Lynn Creek Master Plan Stream Stability Project #9, pending legal counsel review.

C. Consideration of a Contract Extension for Research Agreement #146033 with the University of Nebraska – Lincoln, Office of Sponsored Programs- Dead Man's Run Flume Model [ACTION] – Lindemann explained to the Directors that in July of 2022, the Board approved a Research Agreement with the University of Nebraska – Lincoln (UNL) to perform additional work on the flume model for the Deadmans Run Section 205 Flood Reduction Project (FRP). The U.S. Army Corps of Engineers (USACE) currently proposes constructing a flume beneath the two Railroad Bridges that cross Deadmans Run Channel west of 33rd Street. The existing bridges restrict flows during significant rain events and the flume helps to efficiently convey water flows through the bridges and avoid the backup of water upstream. The work by UNL involves modifying the model downstream of the flume to simulate different riprap sizes to control stream velocities and reduce scour potential. The results of analysis performed may reduce the current conservative riprap design sizing in the flume area and reduce project costs. Drone video footage from earlier work on the flume model was shared with the Directors to help explain the project. The Agreement with UNL expired June 30, 2023, and there have been delays in the ability perform the flume model work due to construction activities taking place in UNL's lab. Dr. Admiraal, the lead researcher, has asked for no-cost time extension to December 31, 2023, to complete the work. Directors asked questions on ownership and durability of the actual flume to be constructed for the Deadmans Run FRP. Lindemann noted that the NRD will take ownership and operate and maintain the project, including the flume, once construction is complete. He also noted that the design of the flume is very robust, consisting of concrete, steel, and pile foundations. Conversations with the Papio-Missouri River NRD, who own and operate two flumes constructed in the 1960's have required minimum maintenance. It was also noted that delays by UNL's work on the flume model will have no impact on the Deadmans Run FRP design and construction schedule.

It was moved by Stevens, seconded by Sinclair, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the no cost extension to Research Agreement #146033 with the University of Nebraska – Lincoln, Office of Sponsored Programs, pending legal counsel review.

Reports

Antelope Creek Bank Repair Project- 40th to Scott Avenue

Langdale provided an update of the Antelope Creek Bank Repair project status. Channel liner has been placed up to 39th Street and wall construction is about 70% complete. Because of recent rains, the water levels and flow rates of Antelope Creek have hindered the Contractor's ability to complete the three remaining concrete channel liner pours. Langdale has worked with the USACE to temporarily draw down Holmes Lake water levels about 1-1/2 feet. He explained that after the Corps drawdown is complete at the end of the week, Antelope Creek water levels decrease enough to allow the Contractor to finish the channel liner (pending any more significant rains). The Contractor remains on schedule and seeding is expected to be completed in September 2023.

Salt Creek Levee PL 84-99 Repair Project

Langdale briefed the subcommittee that the USACE had a bid opening this afternoon for the Salt Creek Levee PL 84-99 Bank Repair Project. This project will repair the left levee bank of Salt Creek near UNL's Soccer and Tennis complex and between Cornhusker Highway and 27th Street. These areas are locations from a 2019 PL 84-99 project where vegetation did not establish, and bank erosion has occurred. Langdale noted that the lowest bidder was Mount Farm Drainage, with a bid of \$392,886. USACE's estimate for construction was \$1,385,509. Construction is expected to start in September of 2023. Langdale noted that PL 84-99 projects are funded by the USACE.

Meeting adjourned at 5:46 pm.

cc: Dave Landis
Steve Seglin
Corey Wasserburger