



LOWER PLATTE SOUTH natural resources district

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Memorandum

Date: November 14, 2022
To: Urban Subcommittee
From: Mark Lindemann, District Engineer
Subject: Urban Subcommittee Meeting Minutes – November 2022

The Urban Subcommittee met on Monday, November 14, 2022, at the NRD Office, at 5:30 pm. Subcommittee members participating included Tom Green- committee chair, Gary Aldridge, Lisa Lewis, Larry Ruth, and John Yoakum. Others participating included NRD staff Paul Zillig, David Potter, Al Langdale, Mike Murren, and Mark Lindemann. Ross Lawrence with JEO Consulting Group, Inc., Mike Boehm and Chad Wemhoff with Pine Lake HOA, and Gordon Coke with The Flatwater Group, were also in attendance. Director Green called the meeting to order at 5:30pm. There were six (6) items the Subcommittee took action on, and three reports. A quorum was present for the meeting.

8a. Consideration of Bids for the Salt Creek Levee Pipe Removal Project on Innovation Campus (STA 289+30R) . [ACTION] – Lindemann described the Salt Creek Levee Pipe Removal Project and the bid opening on November 3, 2022. Five bids received from contractors, with a low bid of \$67,520.00 from K2 Construction. Bids were reviewed by Ross Lawrence of JEO, with the bid recommendation letter informing that K2 Construction has performed similar work and meet the qualifications for the project. JEO has recommended the acceptance of the low bid of \$67,520.00 by K2 Construction

It was moved by Lewis, seconded by Yoakum, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the low bid of \$67,520.00 by K2 Construction, for the Salt Creek Levee Pipe Removal Project at Innovation Campus (STA 289+30R).

8b Consideration of a Professional Services Agreement with JEO Consulting Group for the Salt Creek Levee Bank Repair & Toe Protection Project – Yolande Ave. (STA 299+00 -301+25 L&R). [ACTION] – Lindemann discussed the proposed bank repair and toe protection project for the Salt Creek Levee near Yolande Avenue. The proposal from JEO, with a cost not to exceed \$72,735, will perform design work, develop plans, and bidding documents for the left and right bank of Salt Creek Levee that has undergone scour damage near the existing weirs. Rock toe protection will also be added to prevent future deterioration.

It was moved by Landis, seconded by Yoakum, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Professional Services Agreement with JEO Consulting Group, in an amount not to exceed \$72,735 for engineering services on the Salt Creek Levee Bank Repair and Toe Protection Project at Yolande Avenue (STA 299+00 – 301+25 Left and Right Bank).

8c. Consideration of a Professional Services Agreement with JEO Consulting Group for Drainage Pipe O&M Addendums for the Antelope Creek Flood Reduction Project. [ACTION] –Langdale explained that there are six drainage pipes that were added after the completion of the Antelope Creek Flood Reduction Project. The USACE’s (U.S. Army Corps of Engineers) inspection has identified these pipes as undocumented encroachments with an Unacceptable, or “U” rating. JEO’s proposal, at a cost not to exceed \$15,920, will investigate and survey pipes that have no plans or information available, and submit design details and the available plans for the pipes as an addendum to the USACE’s Operation and Maintenance (O&M) Manual. This will remove the Unacceptable inspection rating by the USACE.

It was moved by Yoakum, seconded by Landis, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Professional Services Agreement with JEO Consulting Group, in an amount not to exceed \$15,920 for engineering services for the Drainage Pipe O&M Addendums for the Antelope Creek Flood Damage Reduction Project.

8d. Consideration of a Community Assistance Program Application with Foreman Ridge Home Owners Association for the Retention Pond Dam Rehabilitation Project. [ACTION] – Murren explained that in June of 2020, the Foreman Ridge Homeowners Association (HOA) had previously been approved for a Community Assistance Program (CAP) cost-share request for design and plans development for the repair of the HOA’s the dam outlet structures for the two ponds that ultimately drain to Cardwell Branch. Ross Lawrence, the engineer of record for the project, provided background of the intent of the designed repairs. With design now complete and bids received, the Foreman Ridge HOA has requested a cost-share for the eligible construction costs for the outlet structure repairs. The total eligible costs for construction is \$97,691.79, and the NRD’s cost-share of 50% would be \$48,845.90.

It was moved by Lewis, seconded by Yoakum, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Community Assistance Program application request from Foreman Ridge HOA, for cost-share of the Retention Pond Dam Rehabilitation Project, at a cost-share amount of 50% of the total eligible cost of \$97,691.79, not to exceed \$48,845.90 in NRD funds, pending legal counsel review.

8e. Consideration of a Community Assistance Program Application for Additional Assistance, from the Pine Lake Home Owners Association, for the Pine Lake Dam Outlet Structure Design. [ACTION] – Murren described the previous cost-share request from Pine Lake HOA and approved by the NRD to perform emergency repairs in 2020. In June of 2022, a cost-share application was approved by the NRD for the Pine Lake HOA watershed analysis and dam outlet structure design. Gordon Coke, engineer from the Flatwater Group (TFG), mentioned that the dam is classified as high hazard and the Nebraska Department of Natural Resources (NeDNR) has noted some deficiencies of concern in previous inspections. Coke’s assessment of the outlet structure and has provided the HOA two options to repair the dam’s outlet structure. Option 1 would replace the outlet riser only and provide an additional dam design life of 30-40 years. Option 2 would provide the dam an additional 100 years of design life by replacing the entire outlet structure (60-inch riser pipe and 50-inch outlet pipe) and include installing seepage protection and armor protection at the plunge pool, which is considered standard in current dam design. The HOA has voted on Option 2, which will require an additional \$30,000 of engineering design by TFG. The Pine Lake HOA as requested the NRD to cost-share 50% of the additional cost of \$30,000, for an NRD total cost of \$15,000.

It was moved by Yoakum, seconded by Landis, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Community Assistance Program application for additional assistance request from Pine Lake HOA, for cost-share for the design of Pine Lake Dam Outlet Structure Design, at a cost-share amount of 50% of the total cost of \$30,000, not to exceed \$15,000 of NRD funds, pending legal counsel review.

8f. Consideration of Amendment #2 to the Dead Man’s Run Flood Reduction Project Agreement for the 38th Street Bridge with the University of Nebraska-Lincoln. [ACTION] – Lindemann explained that the Agreement with the University of Nebraska-Lincoln (UNL) and the NRD is set to expire at the end of 2022. This agreement is for the Dead Man’s Run Flood Reduction Project work that will take place within the UNL East Campus property. Amendment #1 of the agreement was previously performed to update the estimated completion date of the 38th Street Bridge as well as the costs. At the time, it was thought the bridge would be completed by the end of 2022 and the cost was estimated at \$2.3 million, based on the best available information at the time. Amendment # 2, which was brought to the subcommittee, has updated the completion date to December 31, 2025, and the cost has been increased 20-percent to \$2.76 million.

It was moved by Landis, seconded by Ruth, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve Amendment #2 to the Dead Man’s Run Flood Reduction Project Agreement for the 38th Street Bridge with the University of Nebraska-Lincoln.

Reports

Dead Man’s Run Section 205 Flood Reduction Project

1. Lindemann described the Dead Man’s Run Section 205 Flood Reduction Project (FRP) progress. After last week’s bi-weekly meeting with the USACE, a new project schedule has been provided and 65% plans and updated project costs are expected from USACE the week of December 5th. After plans are received and reviewed, several meetings will take place to coordinate ROW acquisition and the design and construction of the local projects for 48th Street and 38th Street Bridges. Construction for the 48th Street Bridge is expected to start in spring of 2023 and final plans for the Dead Man’s Run FRP are expected the summer of 2023. Mike Boehm, Vice President of Agriculture and Natural Resources and Vice Chancellor for the Institute for Agriculture and Natural Resources at UNL, who was present for the CAP application request by Pine Lake HOA (item #8g), provided some insight on the University’s vision for the north entrance to the East Campus location after completion of the FRP as well as the benefits of removing University property and over 480 residences and businesses from the floodplain.

Salt Creek Levee PL 84-99 Repair Project

2. Langdale briefed the subcommittee that the USACE has provided the NRD 90% plans and met with NRD staff on site in late October. This project will repair the left levee bank of Salt Creek near the UNL’s Soccer and Tennis complex and upstream of Cornhusker Highway. Slopes will be set back at a 2.5 to 1 (H:V) and more robust turf reinforcement mat will be utilized. Langdale has initiated contact with landowners for construction access easements for the project, as required by the local sponsor. Minor amounts of imported clay and topsoil is also the responsibility of the NRD. An interagency agreement will also be required between USACE and the NRD for the project.

Flood and Water Quality Protection Manual

3. Lindemann explained that the City Watershed Division has been in the process of updating the City’s Drainage Criteria Manual, renamed the Flood and Water Quality Protection (F&WQP) Manual, since 2017. Through several meetings and workshops with stakeholders, and using information from the Salt Creek Floodplain Resiliency Study, the manual has made key changes to:
 - The use of current rainfall data (NOAA Atlas 14).
 - Minimum flood corridor requirements

- Detention cell design flexibilities
- New BMPs, and surety requirements with final plats
- Grades specified for curb and gutters to limit ponding water
- Erosion and Sediment Control Permits in line with new State requirements
- A temporary 2-foot freeboard requirement within the flood plain until completion of new floodplain maps for the City.
- A No-Net rise of no greater than 0.05-feet of the 100-year water surface elevation within Salt Creek floodplain.

The F&WQP Manual will be up for approval at the Planning Commission on November 16th, and at City Council, December 12th. The NRD will submit a letter of recommendation for the changes made to the F&WQP Manual and will be present for testimony at the Planning and City Council meetings. Directors discussed the importance of the new changes.

Meeting adjourned at 6:24 pm.

cc: Deb Eagan
Steve Seglin
Corey Wasserburger