

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works
Pete Neuberger, Staff Engineer
Sue Olson, Staff Engineer

DATE: December 3, 2018

RE: Award of 2019E Stormwater Consulting Services Contract for K2 Drainage Study to McMahon, Inc. in an amount not to exceed \$29,700.

The Department of Public Works is requesting approval of the 2019E Stormwater Consulting Services Contract for K2 Drainage Study to McMahon, Inc. in an amount not to exceed \$29,700. After this contract, \$621,070 will remain in the 2019 stormwater consulting services budget.

The City's Southpoint Commerce Park consists of approximately 350 acres of commercial/light industrial parcels, most of which are not yet developed, and supporting public roadway, stormwater, water, and sanitary infrastructure. In the early 2000's, post-construction stormwater management for all lots in the Southpoint Commerce Park, as well as some tributary offsite areas, was designed to be provided by four regional stormwater ponds: Coop Pond, Plank Road Pond, K2A (a.k.a. Southpoint Commerce Park North) Pond, and K2B (a.k.a. Southpoint Commerce Park South) Pond.

Ultimately, the City constructed two regional stormwater ponds to serve new development within the K2 Drainage areas—the K2A and K2B stormwater ponds, which are named for the drainage subbasins in which they are located.

Several variables within the drainage subbasins tributary to K2A and K2B Ponds have changed since the original pond designs, and the City desires to re-evaluate the function of the ponds and stormwater conveyances to the ponds to verify the City's/DNR's standards will continue to be met as the Southpoint Commerce Park and nearby areas develop. Known changes within the watershed include include:

- USDA revision of some soil types from Hydrologic Soil Group (HSG) C to HSG D.
- Changes in assumed imperviousness/land use of tributary parcels.
- Changes in annexation status of some tributary parcels, impacting planned onsite stormwater management of said parcels.
- Changes to rainfall data tables.

The proposed scope of work includes:

- Developing XP-SWMM modeling and report for the K2A and K2B Ponds that analyzes pond performance for peak flow control, using both the SCS Type II and Atlas 14 rainfall and distribution data.
- Developing a WinSLAMM model to verify water quality performance.
- Verifying the ponds and stormwater conveyance meet City and DNR standards for new development.
- If the standards are not met, developing concept-level alternatives with budget-level cost estimates for possible modifications to the ponds and/or conveyance system for meeting the standards.

If modifications are determined necessary by the City, the City anticipates a future contract with the selected consultant to model and design such modifications, without an RFP process, subject to future committee and council approval.

DPW solicited proposals from five engineering firms and received proposals from all five firms. Proposals were rated on a 100-point scale on the following criteria: Related Experience, Project Team, Project Understanding and Approach, and Schedule. Technical Proposals were evaluated by a City review team consisting of Ross Buetow, City Engineer; Pete Neuberger, Staff Engineer; and Sue Olson, Staff Engineer.

<u>Rank</u>	<u>Firm</u>	<u>Technical Score</u>	<u>Cost Proposal</u>	<u>Price Per Point</u>
1.	Brown & Caldwell	96.50	\$37,395	\$388
2.	McMahon	95.50	\$29,700	\$311
3.	AECOM	94.00	\$36,924	\$393
4.	Strand	91.50	\$35,000	\$383
3.	raSmith	88.50	\$29,012	\$328

During Technical Scoring, DPW Staff determined that Brown & Caldwell, McMahon, and AECOM scored a virtual tie in providing the best technical proposals. After technical scoring was completed, the City reviewed the cost proposal associated with each technical proposal. Once cost was factored in, McMahon was identified as the most cost-effective proposal measured by price-per-point.

Therefore, the Department of Public Works is requesting approval of the 2019E Stormwater Consulting Services Contract for K2 Drainage Study to McMahon, Inc, in an amount not to exceed \$29,700.