



# CITY OF MCKINNEY, TEXAS

## Legislation Text

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**File #:** 13-1188, **Version:** 1

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Consider/Discuss/Act on a Resolution Authorizing the City Manager to Execute a Contract with Birkhoff, Hendricks & Carter, L.L.P. to Provide Consulting Engineering Services for the University Pump Station 10 MG Ground Storage Tank Project and Authorizing any Supplemental Agreements

**MEETING DATE:** November 19, 2013

**DEPARTMENT:** Development Services/Engineering

**CONTACT:** Paul Tucker, PE, Senior Utility Engineer

**RECOMMENDED CITY COUNCIL ACTION:**

- Approval of Resolution.

**ITEM SUMMARY:**

- This Resolution authorizes the City Manager to execute a contract in the amount of \$320,050, as well as all required supplemental agreements thereto, with Birkhoff, Hendricks & Carter, L.L.P. (BHC) for professional consulting engineering services for the 10 MG Ground Storage Tank Project at the University Pump Station Facility, for a total aggregate contract amount, inclusive of any supplemental agreements, not to exceed \$355,000.

**BACKGROUND INFORMATION:**

- Per the 2012-2013 Water Master Plan, the additional 10 MG Ground Storage Tank to improve water storage capacity for the growing City population and businesses.
- Birkhoff, Hendricks & Carter, L.L.P. submitted a response to 13-10RFQ for Major Utility Design. They were one of four firms shortlisted by City Council on February 5, 2013. They were selected from this group based on their availability to perform the project, their experience and knowledge with the University Pump Station site and facilities and other similar projects in the DFW metroplex.
- Birkhoff, Hendricks & Carter, L.L.P. submitted a proposal for this project in the amount of \$320,050. Their scope includes the following elements:
  - Topographical survey, establish horizontal and vertical control network and project control baseline;
  - Geotechnical analysis of the tank site derived from five (5) borings at the location of proposed Ground Storage Reservoir No. 3;
  - Design a 10.0 MG AWWA D110, Type III, Prestressed Concrete Ground Storage Reservoir with 40-foot side water depth and associated appurtenances, water mixing

system, tank level telemetry, water quality monitor, reservoir mixing system, electrical system and supply, and connections to the existing yard piping;

- Integration of control and monitoring system into City's existing system;
  - Update existing site plan to include location of Ground Storage Reservoir No. 3, proposed pump suction line loop, proposed ground storage tank supply line extension, stubouts for future ground storage reservoir connections and associated parking lot replacement and parking layout, grading and drainage improvements, and gate improvements;
  - Prepare plans for proposed pump suction line loop, proposed ground storage tank supply line extension, tank overflow line, tank under-drain system (if required by geotechnical analysis) and drainage lines.
  - Design permanent reinforced concrete parking lot to include accessible route and accessible parking to access the existing building per Texas Department of Licensing and Regulation (TDLR) rules;
  - Engineering analysis to verify pipe sizing utilizing the Master Plan existing and buildout water models;
  - Preparation of a complete bid package, including plans, specifications, and contract documents;
  - Bid phase assistance to the City; and
  - Construction phase assistance to the City including quality control and materials testing.
- Construction of this project is estimated to cost approximately \$5,200,000 and is currently funded in the FY2014 Capital Improvement Program. Construction is anticipated to be complete in August 2015.
  - Upon approval of the engineering services contract, BHC will prepare the design and provide administration services during construction.

#### **FINANCIAL SUMMARY:**

- This Resolution authorizes a contract with BHC, for an amount not to exceed \$355,000.
- Funds are available in the Capital Improvements Program in WA6116.

**BOARD OR COMMISSION RECOMMENDATION:** N/A