



DATA SHEET Agenda Item No. 12.A.

Meeting Date: June 7, 2018

Agenda Item:

Consider approval of Contract and Task Order No. 1 with CP&Y, Inc. related to Program Surveying Services for Lake Ralph Hall.

Placement: <input type="checkbox"/> Consent <input checked="" type="checkbox"/> Individual Consideration <input type="checkbox"/> Executive Session
Vote: <input type="checkbox"/> Non-Weighted <input checked="" type="checkbox"/> Weighted Capital
Recommending Department: Engineering & Construction

Background:

In 2004, CP&Y, Inc. (CPY) collected the original survey for the Lake Ralph Hall (LRH) project which included aerial data collection and surveying of the dam centerline and geotechnical boring locations. Since that time CPY has performed a number of parcel boundary surveys, verified the original horizontal and vertical control points and began developing a Geographic Information System (GIS) base map for the project.

The LRH project is moving forward into the preliminary design phase and additional surveying support is required. Based on CPY's LRH project experience and their highly qualified surveying capabilities, they have been selected as the surveyor for the LRH program.

Accordingly, the District staff has negotiated a Contract and Task Order No. 1 with CP&Y, Inc. for the following surveying and mapping components:

- Topographic survey for portions of the North Sulphur River and Baker Creek
- Topographic survey to support the design of the dam and mitigation areas
- Topographic survey to support the design of other project components such as (SH 34 bridge, state and county roads, drainage features, vegetation, etc.)
- Continued development of a Cadastral GIS Base map for the project
- Parcel boundary surveys as required for land acquisition

The cost to perform the work identified in Task Order No. 1 is not to exceed \$391,000.00

Financial:

Funding for the Lake Ralph Hall project is included in the Regional Treated Water System FY 2018 Capital Budget with project number 5RH. This funding was received in December 2015 from the Texas Water Development Board through the SWIFT deferred payment program.

Recommendation:

Staff recommends approval of Contract and Task Order No. 1 with CP&Y, Inc.

Enclosures:

1. Task Order No. 1.
2. The proposed contract is a standard District professional services agreement and is not enclosed. If you would like a personal copy of the contract, please contact Kurt Staller.

Submitted By:



Kurt Staller, Assistant Director, Engineering and Construction

Date: June 1, 2018

ATTACHMENT A-1

Task Order No.1

This Task Order is part of the AGREEMENT between CP&Y, Inc. ("CPY" or "ENGINEER"), and Upper Trinity Regional Water District ("OWNER"), for a project generally described as:

PROFESSIONAL SERVICES FOR THE LAKE RALPH HALL PROJECT

ARTICLE I

SCOPE OF SERVICES

CPY agrees to furnish the OWNER the following specific services:

BASIC SERVICES

A. TOPOGRAPHIC SURVEY

Task 1 - North Sulphur River and Baker Creek. CPY shall perform two (2) cross-section surveys (as shown in green on Figure A-1). The first section will begin 100 feet (+/-) upstream of the confluence of the North Sulphur River and Baker Creek, and will cross-section both the North Sulphur River and Baker Creek. The second section will begin 100 feet (+/-) downstream of the confluence of Baker Creek and the North Sulphur River (as shown in green on Figure A-1) and will cross-section only the North Sulphur River.

CPY will also collect data along the centerline profile (at 50 foot intervals) from the County Road 904 North Sulphur River bridge 1,000 (+/-) feet upstream along both the North Sulphur River and Baker Creek (as shown in yellow on Figure A-1).

Deliverables: CPY will provide OWNER one (1) electronic survey file, AutoCAD version 2016 or more recent version. The AutoCAD file should be set up to plot at a scale of 1"=200'. The topographical file shall include a 3-D surface model (TIN) compatible with AutoCAD Civil 3D software. Use clearly defined layers, point styles, and line types to identify survey features. Provide a legend which clearly distinguishes between survey features.



Figure A-1 – Cross Section/Profile locations

Task 2 – Tributary Cross-Sections and Profiles at Dam & in Mitigation Areas. CPY shall conduct standard topographic survey of up to 10,000 linear feet, (at 100 foot intervals - plus bends) of the tributaries to the North Sulphur River channel and Baker Creek to include longitudinal profile and cross-sections of channels.

Deliverables: CPY will provide OWNER one (1) electronic survey file, AutoCAD version 2016 or more recent version. The AutoCAD file should be set up to plot at a scale of 1"=200'. The topographical file shall include a 3-D surface model (TIN) compatible with AutoCAD Civil 3D software. Use clearly defined layers, point styles, and line types to identify survey features. Provide a legend which clearly distinguishes between survey features.

Task 3 - Additional Topographic Survey to Support Project. CPY shall conduct standard topographic survey of features including, but not be limited to permanent structures, edges of pavement, bridges, retaining walls, drainage structures, channels and drainage ways, slabs, utility signs and structures, fences, limits of vegetation (trees and brush), driveways, above ground utility lines, edge of water, tanks, etc.

Deliverables: CPY will provide OWNER one (1) electronic survey file, AutoCAD version 2016 or more recent version. The AutoCAD file should be set up to plot at a scale of 1"=200'. The topographical file shall include a 3-D surface model (TIN) compatible with AutoCAD Civil 3D software. Use clearly defined layers, point styles, and line types to identify survey features. Provide a legend which clearly distinguishes between survey features.

B. GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Task 4 - Maintain Cadastral Base map Geodatabase. Continued support to the OWNER during acquisition of tracts for the PROJECT. This includes the following tasks:

- Confirm coordinates
- Confirmation of adjacent boundaries
- Update the GIS base map
- Notify the OWNER of any discrepancies
- Coordinate with Surveyors and resolve the discrepancies
- Meet with the District staff to review tract acquisition and Base map on a quarterly basis.

C. PROPERTY BOUNDARY SURVEYS

Task 5 - Conventional Survey of property monuments to develop cadastral Base map. CPY shall collect data on property corner monument locations throughout the PROJECT area to aid in the development of the cadastral parcel base map.

Task 6 – Parcel Boundary (Land Title) Surveys. CPY shall perform parcel boundary surveys as requested by the OWNER. All work will be coordinated with the OWNER and the title company. If the title commitment is not complete at the time of the survey, CPY will complete the survey and add the relative title information once received (i.e. easements, etc.).

CPY shall use horizontal and vertical datum of NAD 83 and NAVD 88, respectively per the existing Primary Control set for the PROJECT. The survey drawing shall show all visible improvements and utilities. For parcels adjacent to the project boundary the survey shall show the project boundary and conservation pool contour.

CPY shall review each parcel survey request from the OWNER and provide the OWNER an estimated cost. The billed cost to the OWNER for each survey request shall be based on the actual labor hours and expenses incurred in performing the work, in accordance with Exhibit A.

Deliverables: CPY will provide the OWNER:

- Land Title Survey – Drawings at an applicable scale to fit on a 22"x34" sheet
- Digital Civil3D 2015 Drawing
- Blackline Copies – 3 hard copies and 1 electronic pdf format
- ArcGIS shapefile

ADDITIONAL SERVICES

ADDITIONAL SERVICES are activities not currently anticipated as part of this project, but which the OWNER may request. CPY will perform ADDITIONAL SERVICES only as authorized in writing by the OWNER.

ARTICLE II
COMPENSATION

BASIC SERVICES

Compensation by the OWNER to CPY for Tasks 1 through 6 of Basic Services shall be based on the actual labor hours and expenses incurred in performing the work, in accordance with Exhibit A. Total compensation for BASIC SERVICES is Task Order No. 1 shall not exceed \$356,000.00.

ADDITIONAL SERVICES

Compensation by the OWNER to CPY for any ADDITIONAL SERVICES in Task Order No. 1 shall be based on the actual labor hours and expenses incurred in performing the work, in accordance with Exhibit A. No work will be performed under this item without prior written authorization form the OWNER. The budget allocation for ADDITIONAL SERVICES for Task Order No. 1 is \$35,000.00.

COMPENSATION SUMMARY

Basic Services Subtotal	\$ 356,000.00
Additional Services Subtotal	\$ 35,000.00
TOTAL Not-to-Exceed	\$ 391,000.00

For the OWNER, UPPER TRINITY REGIONAL WATER DISTRICT dated this ____ day of _____, 2018

By: _____

Name Title

For the ENGINEER CP&Y, Inc. dated this ____ day of _____, 2018

By: _____

Name Title