

Demetria R Kimball

From: Greg Isaacs [GIsaacs@palmernet.com]
Sent: Thursday, January 08, 2015 2:11 PM
To: Demetria R Kimball
Subject: FW: Wolf Run - Scope

Demetria,

To follow up from our meeting with you concerning the scope and fees associated with the Wolf Run Improvements project, we feel that we can include the geotechnical visual inspection, a total of 3 public meetings, 2 meetings with the Wolf Run Watershed Council, and the conceptual evaluation of the Cross Keys storm sewer rerouting for the fees we submitted of **\$238,297.45**. Based on our discussion our understanding of the modification of the scope include:

1. Cross Keys pond would be designed so as to not change the floodplain and that no changes to the dam or spillway are anticipated. Design of the improvements to the pond are intended to be within the confines of the existing pond, with the exception that a fore bay may be considered upstream of the pond on the existing stream. Although minor repair to erosion areas or minor surface repair to spillway may be included.
2. The progress meetings outlined in the request for proposal are intended to be site visits which would not require agendas or meeting minutes.
3. Two (2) public meeting and two (2) meetings with the Wolf Run Watershed Council will be included.
4. Up to three (3) meetings with affected property owners will be included.
5. The design of the Big Elm section of the Picadome project does not need to address the overland flooding of the golf course.
6. The geotechnical inspection will include a site reconnaissance by a Senior Geotechnical Engineer to observe the general conditions of the pond; pond dam/spillway structures; sinkhole vicinity; and stream reach - from a geotechnical perspective. This phase will include a meeting with the Design Team to discuss potential improvements to the pond, dam/spillway, sinkhole vicinity, and stream. A report will be prepared and submitted which includes geotechnical conclusions and recommendations for geotechnical explorations during the design phase of the project.

LFUCG had requested that we include an allowance/placeholder for additional geotechnical services during the design phase. This phase of the project will include performance of geotechnical field explorations outlined in the Preliminary Phase report. Field work may consist of exploratory rock line soundings (up to 10) in the vicinity of the sinkhole and/or proposed water quality structure locations; geotechnical test borings (up to 5 TB's, including up to 25 feet of rock coring); hand sampling within the pond (up to 10) to determine depths of silt and clay liner materials); applicable laboratory testing of soil samples to determine overburden soil classifications; and preparation of a geotechnical engineering report, which will include conclusions and recommendations for design and construction of the water quality improvements. It should be noted that this anticipated scope of work is preliminary and estimated costs are based on the assumption that no significant problems exist within the pond dam/spillway structures, sinkhole, and stream reach which would require more extensive geotechnical explorations. If such conditions are encountered during the preliminary phase of the project, Thelen Associates, Inc. will work with the Design Team to identify additional scope items required to perform the geotechnical explorations.

Estimated Cost = \$10,000.00

Additionally LFUCG requested that we include allowances for DOW and FEMA permit fees. The list is entended to include those fees we anticipate, but may not include all fees that could arise during the course of the project.

Anticipate one FEMA CLOMR permit fee at \$4,400.

Anticipate one FEMA LOMR permit fee at \$5,400.

Anticipate preparation for CLOMR/LOMR permit submittal at \$4000.

Anticipate two DOW Water Quality permit fee at \$2,500 each.

Anticipate two public advertisement fees at \$500 each.

Estimated Cost = \$19,800

Engineering Fees	\$238,297.45
Geotechnical Allowance	\$10,000
Permitting Allowance	\$19,800
Total Contract amount	\$268,097.45.

Thanks,

Greg Isaacs, PE
Branch Manager

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