

[Delivery by Email: [dbutler@wilco.org](mailto:dbutler@wilco.org) ]

Proposal No. PAA18-034-00  
February 27, 2018

Raba Kistner  
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Mr. Dale Butler  
Project Manager  
Williamson County Facilities  
3101 SE Inner Loop  
Georgetown, Texas 78626

**RE: Geotechnical Engineering Study  
River Ranch County Park Interpretive Center  
Williamson County, Texas**

In accordance with your request, RABA KISTNER Consultants Inc. (RKCI) is pleased to submit this proposal for Geotechnical Engineering Services for the referenced project. The broad objectives of our study will be to determine soil conditions at the site and to develop foundation design recommendations for a new interpretive center at River Ranch County Park in Williamson County, Texas. Described in this letter are:

- our understanding of pertinent project characteristics;
- our proposed scope for field and laboratory study;
- our proposed scope for engineering evaluation and reporting;
- our tentative project schedule; and
- our lump sum study cost.

### **Project Description**

Under consideration in this study is a new, single story Interpretive Center facility to be located within the existing River Ranch County Park in Williamson County, Texas. Based on information provided by the structural engineer, Mr. Vic Winter, P.E., with Winter Engineering, we understand shallow foundations are preferred provided expansive soil-related movements do not pose a concern. We also understand building pad preparation for the proposed 5,500 square foot building should result in a potential vertical rise (PVR) of 1 in. or less.

### **Field Study**

To explore subsurface conditions in the vicinity of the new Interpretive Center, RKCI recommends one (1) soil boring to a depth of 15 ft below the existing ground surface.

Samples will be taken using conventional split-spoon, Shelby-tube and/or NX rock core sampling techniques. The boring will be located in the field utilizing a recreation grade hand-held GPS device and/or tape and right angle measurements from existing benchmarks. Our scope of service does not include surveying in the boring location.

Upon completion of drilling, the boring will be backfilled utilizing auger cuttings and bentonite hole plug.

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### **Engineering Deliverable**

The field and laboratory phases of the study will be reviewed by our staff of engineers and geologists. The results of our review, together with the supporting field and laboratory data, will be presented in a written engineering letter with attachments to include the following:

- Boring Location Map;
- Log of Boring;
- Estimated PVR;
- Required building pad preparation to reduce RVR to 1 in.; and
- Shallow foundation recommendations.

Since site grading plans can result in changes in the foundation subgrade conditions, final site grading plans will be helpful information in the preparation of engineering recommendations. In the absence of site grading information, we will prepare recommendations based on the existing topography.

The final letter will be reproduced in an electronic PDF will be delivered via email.

### **Tentative Project Schedule**

Based on our present workload, we anticipate that we could begin the field exploration phase of this study within 3 to 4 working days of receiving your written authorization. The field exploration and laboratory testing phase of the study is expected to take approximately 1 to 1-1/2 weeks to complete. Engineering analyses and preparation of the engineering letter is expected to take an additional 1 to 2 weeks to complete. We will be pleased to provide the design team with verbal design information as the data becomes available.

### **Project Cost**

The cost plus max for the base study scope outlined herein is **\$2,462.71**.

Should unusual soil conditions be encountered in the field that indicates the desirability of significantly broadening the scope of the study, we will contact you to receive authorization before proceeding with any additional work.

Any additional professional time or travel expenses for participation in design team meetings, if required, will be billed at our approved billing rates for professional time plus expenses.

### **Acceptance**

We appreciate the opportunity of submitting this proposal and look forward to working with you, which will be carried out in accordance with the *ON CALL GEOTECHNICAL AND LAB TESTING SERVICES* contract between Williamson County and Raba Kistner Consultants, Inc., executed on February 5, 2016.

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Please return one signed copy of this letter proposal to provide written authorization for our firm to complete work on the services outlined herein.

RKCI considers the data and information contained in this proposal to be proprietary. This statement of qualifications and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part of any purpose other than to evaluate this proposal.

Very truly yours,

**RABA KISTNER CONSULTANTS, INC.**

Accepted  
By:

\_\_\_\_\_  
Signature

*Yvonne G. Thomas*  
Yvonne Garcia Thomas, P.E.  
Associate

\_\_\_\_\_  
Typed or Printed Name

YGT: tlc

\_\_\_\_\_  
Title

Copies Submitted: Above (1)

\_\_\_\_\_  
Date