



Marion County Board of County Commissioners

Procurement Services

2631 SE Third St.
Ocala, FL 34471
Phone: 352-671-8444
Fax: 352-671-8451

CHANGE ORDER FORM

This form is to be used when a Purchase Order has a change in scope, amount or date. Amounts exceeding 10% of original award requires BCC approval. Some fields may not be applicable and may be left blank. Use your cursor to hover over a field for help.

Date 05/03/2023 Department Utilities Change Order # X 2

Additional Days Only Is Board Action Required? No

Bid/Contract/Quote Number & Project Title:
19Q-270-CA-1 / SE Regional WTP Design

Vendor (Name & Address):
Kimley Horn and Associates, Inc.
101 E Silver Springs Blvd.
Ocala, FL 34470

Project Code: UTC000136

PO Number: 02300760

Contract Amount: 136,933

GL Account Number (ORG/OBJECT):
ZF448536-55102

Have you sent Procurement the revised P&P Bond? Yes No N/A

Contingency Amount Using (if requesting use):

Is the change order amount from Contingency? Yes No

DESCRIPTION OF CHANGE

Requesting additional geotechnical engineering services to better understand subsurface conditions at anomalies identified in the aquifer performance test discharge area. These additional services will assist in finalizing plans to avoid sink holes developing during the testing of proposed Lower Floridan Aquifer test well.

* BACKUP DOCUMENTATION MUST BE ATTACHED CLARIFYING CHANGE

Original PO Amount:	\$136,933.00
The Current PO Amount (includes all previous change orders):	\$136,933.00
The PO will be increased/decreased by this change order in the amount of: (Do not put contingency amount)	Increase <input checked="" type="checkbox"/> Decrease <input type="checkbox"/> \$6,600.00
The new PO amount including this change order will be: (PO amount will not change if it comes from contingency)(auto calculated)	\$143,533.00
Contract time will be increased/decreased by _____	DAYS
Prior Substantial Completion Date	Revised Substantial Completion Date
Prior Final Completion Date	Revised Final Completion Date

Approval:

Department Head [Signature] Date 6/1/23
 Project Mgr. [Signature] Date 5/31/23
 Administration (If Applicable) _____ Date _____
 Procurement: [Signature] Date _____

BCC Approval (when applicable):

Chairman, BCC [Signature] Date June 20, 2023
 Attest: Clerk of Court [Signature] Date June 20, 2023
 County Administrator _____ Date _____

**AMENDMENT NUMBER 1 TO AN AGREEMENT
BETWEEN KIMLEY-HORN AND ASSOCIATES, INC.
AND MARION COUNTY UTILITIES**

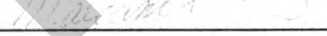
AMENDMENT NUMBER 1 DATED May 31, 2023, to an Agreement between Marion County Utilities. ("the Client") and Kimley-Horn and Associates, Inc., ("Kimley-Horn or Consultant") dated December 22, 2022 ("Agreement") concerning Purchase Order (PO) 02300760 for the SE Regional WTP Lower Floridan Test Well (the "Project").

Kimley-Horn has entered into an Agreement with the Client for the furnishing of professional services, and the parties now desire to amend the Agreement.

Therefore, it is mutually agreed that Agreement is amended to include Additional Services to be performed by Kimley-Horn and provisions for additional compensation by the Client to Kimley-Horn, all as set forth in Exhibit A hereto. The parties ratify the terms and conditions of the Agreement not inconsistent with this Amendment, all of which are incorporated by reference.

Attachments: CPT Sounding Locations; Andreyev Engineering Proposal dated May 17, 2023

KIMLEY-HORN AND ASSOCIATES, INC.

BY: 
Malcolm Lewis Bryant, P.E.

TITLE: Sr. Vice President

DATE: May 31, 2023

Consultant shall perform the following Additional Services:

Project Understanding

Andreyev Engineering, Inc. (AEI) was hired by Kimley-Horn to provide geotechnical, hydrogeological, and geophysical investigations for the Project. The Ground Penetrating Radar (GPR) portion of the study indicated a total of 21 anomaly areas and centers, with 20 falling in the vicinity of the proposed aquifer performance test aquifer performance test (APT) discharge area. It has been recommended to better understand the subsurface conditions at these anomalies to determine if project planning and design changes are needed. Cone Penetration Testing (CPT) soundings can be a more time and cost-effective alternative to Standard Penetration Test (SPT) borings when it comes to assessing subsurface conditions for sinkhole potential at this site. Due to the size and orientation of certain anomalies, multiple CPT soundings within one anomaly area could be considered to further evaluate subsurface stability. The CPT soundings do not collect samples, and the depth of CPT soundings will be limited to the first encounter of hard soil conditions (which the cone cannot be pushed thru) and CPT sounding depths will vary.

The purpose of this additional testing is to gain general insights as to the potential for sinkholes to form on the discharge site, resulting from the pumping test during well construction.

Scope of Services

Task 1 – Additional Geotechnical Services

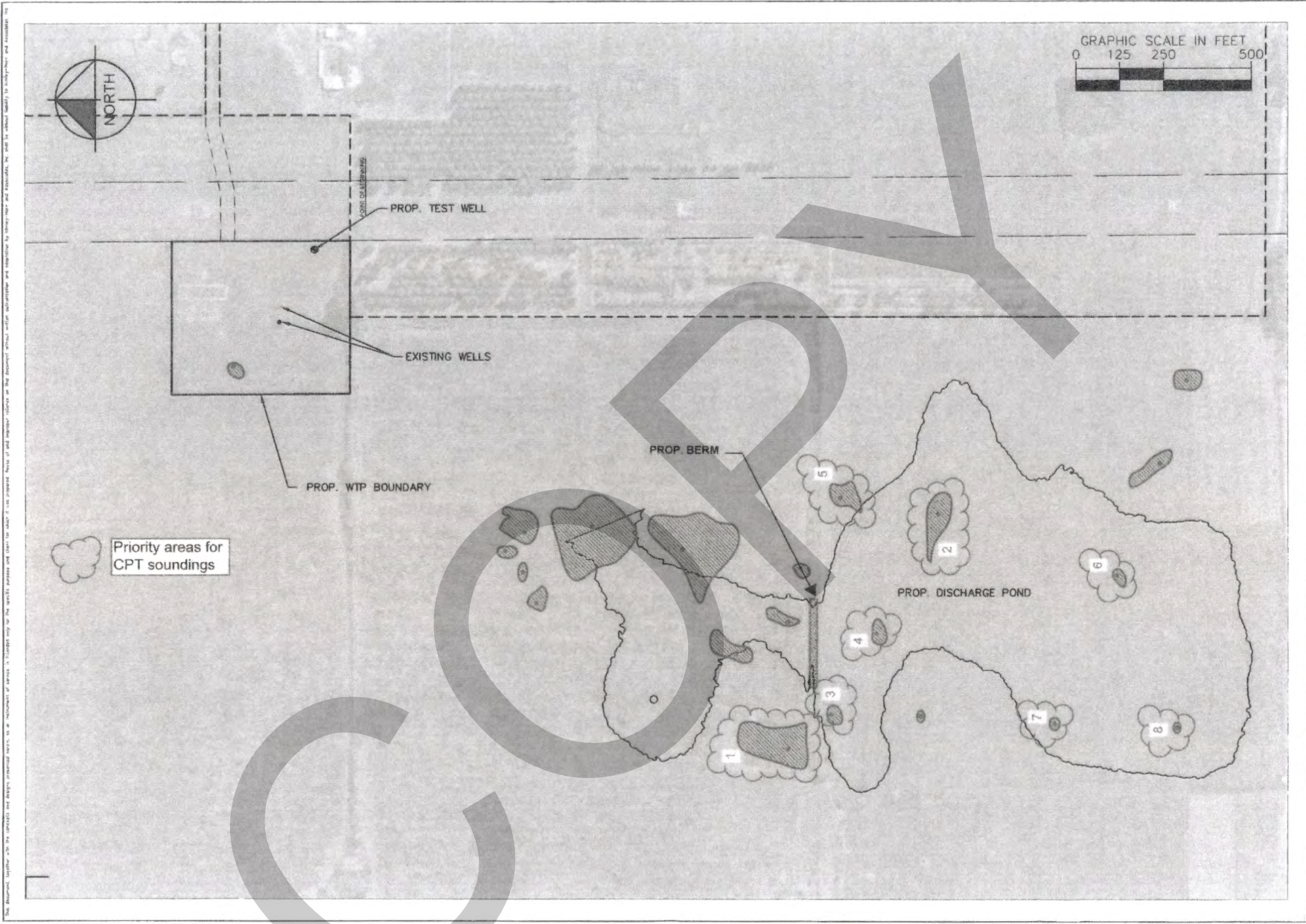
- A. Kimley-Horn will hire AEI to perform CPT soundings at the project location. The CPT soundings will likely reach refusal conditions in the range of 30 to 50 feet below existing ground surface. With this depth range it is estimated that eight to ten (8-10) CPT soundings can be completed in one (1) day.
- B. CPT data will be processed and analyzed.
- C. AEI will prepare a summary report with the results of the exploration.

Additional Services If Required

Services requested that are not specifically included will be provided under a new and separate IPO agreement or can be performed on an hourly basis upon written authorization.

Fee and Billing

The Scope of Services will be performed on a lump sum basis of \$6,600.00 for one day of CPT testing.



The information contained on this drawing was prepared by the engineer and is not to be construed as a warranty, express or implied, of the accuracy or completeness of the information provided. The engineer and its associated, PC, shall be held liable to the extent of the professional and engineering services provided.

SE REGIONAL LFA TEST WELL MARION COUNTY		SITE PLAN		Kimley»Horn <small>© 2013 KIMLEY HORN AND ASSOCIATES, INC. 1402 E. CENTRAL EXPRESSWAY, SUITE 200, WALKER, LA 70471 WWW.KIMLEYHORN.COM 504.938.0000</small>	
SHEET NUMBER FIGURE 4	LICENSED PROFESSIONAL MALCOLM L. BRYANT, P.E. <small>FLORIDA LICENSE NUMBER 65582</small>	PROJECT NUMBER 042889013	DATE 01-09-2013	SCALE AS SHOWN	DRAWN BY BJ
CHECKED BY BJ	DATE 01-09-2013	REVISIONS	No.	DATE	BY



Andreyev Engineering, Inc.

SANFORD OFFICE
4055 St. John's Parkway
Sanford, Florida 32771
407-330-7763
Fax: 407-330-7765

▼ Groundwater ▼ Environmental ▼ Geotechnical ▼ Construction Materials Testing

Date: May 17, 2023

To: Kimley - Horn and Associates, Inc.
101 East Silver Springs Boulevard, Suite 400
Ocala, Florida 34470
Attn.: Mrs. Kim Arnold, P.G.

Subject: Proposal for CPT Soundings at GPR Anomaly Areas, SE Regional WTP & Discharge Area, Marion County, Florida

Dear Mrs. Arnold:

At your request, Andreyev Engineering, Inc. (AEI) is pleased to provide the following proposal to perform Cone Penetration Test (CPT) soundings at the SE Regional 5-acre WTP site and 35+ acre aquifer performance test (APT) discharge area. The project areas are undeveloped parcels located in Summerfield, Marion County, Florida. This proposal serves as an alternative to the **Task 3** additional investigation work presented in our proposal dated November 16, 2022, and presents a time and cost estimate for providing the additional services.

AEI has recently completed geotechnical, hydrogeological, and geophysical investigations at the subject sites. The Ground Penetrating Radar (GPR) portion of the study indicated a total of twenty-one (21) anomaly areas and centers, with twenty (20) falling in the vicinity of the proposed APT discharge area. It has been recommended to better understand the subsurface conditions at these anomalies to determine if project planning and design changes are needed. CPT soundings can be a more time and cost-effective alternative to Standard Penetration Test (SPT) borings when it comes to assessing subsurface conditions for sinkhole potential at this site. Due to the size and orientation of certain anomalies, multiple CPT soundings within one anomaly area could be considered to further evaluate subsurface stability. A full copy of the GPR study report provided by GeoView, Inc. was included as an attachment to our report dated May 8, 2023. The GeoView report contains coordinates of the encountered GPR anomaly centers.

Based on the previous investigation results, we estimate that the CPT soundings will reach refusal conditions in the range of 30 to 50 feet below existing ground surface. With this depth range it is estimated that eight to ten (8-10) CPT soundings can be completed in one (1) day.

The proposed scope of services will be supervised by a geotechnical engineer licensed in the state of Florida. The CPT data will be processed and analyzed, and the results of the exploration will be presented in a geotechnical report. We estimate that we can locate, stake, and perform the first 8-10 CPTs, process & analyze the CPT results, and prepare a summary report for the cost of **\$6,000 per day** (this equates to approximately \$600-\$750 per boring). If desired, most (if not all) of the identified anomalies could be at least preliminarily investigated with CPT soundings in a period of 2 to 3 days (additional subsequent days would be charged at \$5,500 per day). Please also note, that detailed delineation of the extents of excessively loose or soft subsurface conditions in specified anomaly areas could take additional time. However, at this stage it is our understanding that we would be primarily looking to gain general insights as to the potential for sinkholes to form on the discharge site, resulting from the pumping test during well construction.

As previously discussed, the CPT soundings do not collect samples, and the depth of CPT soundings will be limited to the first encounter of hard soil conditions (which the cone cannot be pushed thru) and CPT sounding depths will vary. We anticipate that we can begin the field investigations within 15 days of receiving your authorization and estimate report completion within 7 to 10 working days thereafter.

We appreciate the opportunity to submit this proposal for your review and consideration and look forward to working with you on this project. If you have any questions concerning this proposal, please feel free to contact our office.

Sincerely,

ANDREYEV ENGINEERING, INC.



Raymond W. Jones, P.E.
Vice President

Attachment: Scope of Work and Fee Estimate

Conditions of Acceptance: The above proposal is acceptable. The proposal constitutes a binding contract between AEI and the Client. It is agreed by the Client and AEI that there are no additional terms, conditions, or agreements with respect to the project, other than the items referenced in this proposal and identified here in these Conditions of Acceptance. Payment shall be due within 30 days after the date of each invoice. For past due invoices, interest shall accrue at 18% per annum (or the highest rate allowable by law). All attorneys' fees and expenses associated with AEI's collection of past due invoices shall be paid by Client. The parties agree that any actions brought to enforce any provision of this Agreement shall only be brought in a court of competent jurisdiction located in Orlando, Orange County, Florida. Whether this proposal is executed or not, the ordering of, acceptance of, or reliance on services performed by AEI constitutes acceptance of these Conditions of Acceptance.

AUTHORIZATION:

CPT Soundings at GPR Anomaly Areas, SE Regional WTP & Discharge Area, Marion County, Florida.

Estimated Fee: \$6,000.00 per day for first day (\$5,500 for subsequent days under same mobilization)

ACCEPTED BY: Name: _____ Signature: _____

TITLE: _____ DATE: _____

BILLING ADDRESS: _____

PHONE: _____ CELL: _____ FAX: _____

EMAIL ADDRESS: _____