

WORK ORDER No.9 FOR PROFESSIONAL SERVICES

TO: A.D.A. Engineering, Inc.
8550 NW 33 Street, Suite 202
Doral, FL 33122
Phone: (305) 551-4608

DATE: June 12, 2019

The City of Doral authorizes the firm of A.D.A. Engineering, Inc. to provide professional engineering services associated with the geotechnical engineering services and design of the truck pad for the Miami-Dade Fire Rescue Department along the Dressel's Dairy Canal shared use maintenance/bicycle/pedestrian path. The scope of services includes, project coordination and design plans preparation and permitting coordination. The work should be performed in accordance with the contract provisions contained in the Continuing Professional Services Final Agreement between ADA Engineering, and the City of Doral dated January 30, 2018, and the attached Proposal dated June 11, 2019 and submitted by your firm for the above referenced project.

SCOPE OF SERVICES AND SCEHDULE:

The scope of the project will be as described in the attached proposal from A.D.A. Engineering, Inc. The schedule of the work to be provided is six (6) weeks from NTP. The performance of services associated with this Work Order will be executed on a time and material basis with a not to exceed amount of \$13,434.20.

You are required by the Continuing Service Agreement to begin work subsequent to the execution of this Work Order, or as directed otherwise. If you fail to begin work subsequent to the execution of this Work Order, the City of Doral will be entitled to disqualify the Proposal, and revoke the award.

This Work Order incorporates the terms and conditions set forth in the Continuing Services Agreement dated January 30, 2018 between the parties as though fully set forth herein. In the event that any terms or conditions of this Work Order conflict with the Continuing Services Agreement, the provisions of this specific Work Order shall prevail and apply

Work Order is not binding until the City of Doral agrees and approves this Work Order.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and date first above written, in three (3) counterparts, each of which shall, without proof or accounting for the other counterpart be deemed an original Contract.

CONSULTANT: A.D.A. Engineering, Inc.

WITNESSES: SEAL:

BY: [Signature]
NAME: Alex Vazquez
TITLE: Vice-President

1. [Signature]
2. [Signature]



OWNER: City of Doral
BY: [Signature]
NAME: Albert P. Childress
TITLE: City Manager

AUTHENTICATION:
BY: [Signature]
NAME: Connie Diaz
TITLE: City Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE SOLE USE OF THE CITY OF DORAL:

BY: [Signature]
NAME: Luis Figueredo, ESQ.
TITLE: City Attorney



Corporate Office
8550 NW 33rd Street, Suite 202
Doral, Florida 33122
T 305.551.4608
F 305.551.8977
www.adaengineering.com

June 12, 2019

Stephanie Bortz, CFM
Stormwater Manager
City of Doral
8401 NW 53 Terrace
Doral, FL 33166

**Reference: WORK ORDER NO 8. MIAMI-DADE FIRE RESCUE DEPARTMENT TRUCK PAD
GEOTECHNICAL ENGINEERING SERVICES AND DESIGN**

Dear Ms. Bortz:

Per your request, A.D.A. Engineering, Inc. (ADA) is pleased to submit this Service Order proposal for Professional Engineering Services associated with the Geotechnical Engineering Services and Design of the truck pad for the Miami-Dade Fire Rescue Department, in accordance with City of Doral Continuing Professional Services Final Agreement January 30, 2018. . The truck pad is proposed to be within the canal maintenance easement of the Miami-Dade Fire Rescue Department property. The following sections outline the scope of work, schedule of work (time performance), and compensation associated with this work order.

I. SCOPE OF WORK

ADA will retain Terracon to provide all the necessary geotechnical engineering services in accordance with the attached proposal, budget estimate and scope of services provided by Terracon. As part of this work order, ADA will not attend any onsite meetings, perform any field inspections, or perform any field testing. All field activities, testing and reporting will be performed by Terracon.

ADA's Scope of Work is comprised of the following essential tasks:

- Task 1 – Project coordination and Design Plans Preparation
- Task 2 – Permitting Coordination

Below is a description of the level of effort associated with each of these tasks.

Task 1 – Project Coordination and Design Plans Preparation

ADA will provide required data and files of the proposed Miami-Dade Fire Rescue Department truck pad to Terracon. With the required data, Terracon will perform the stability loading analysis of the proposed truck pad adjacent to the canal bank stabilization. Based on the findings from Terracon's stability loading analysis, ADA will design the truck pad and prepare the following design plan sheets:

RER Submittal

- a) One (1) – Summary of Quantities Sheet
- b) One (1) - Plan Sheet (1" = 40')
- c) One (1) - Cross Section Sheet
- d) One (1) - Detail Sheet

ADA will also prepare an opinion of probable construction cost for the City's review.

Task 2 – Permitting Coordination

ADA will assist the City in processing a modification to the existing Class III permit from Miami-Dade County Department of Regulatory and Economic Resources (RER). As part of this task, ADA will attend one (1) meeting with RER to address any potential permit issues that could arise during the permit modification review process. ADA will address comments, if any, from RER staff until the permit is acquired.

II. SCHEDULE OF WORK – TIME OF PERFORMANCE

ADA will complete the work outlined in Tasks 1 and 2 of the Scope of Works within six (6) weeks from notice to proceed and in accordance with the construction schedule.

III. COMPENSATION

ADA will be compensated on a time and materials basis of \$13,434.20 for performing the work detailed in the Scope of Work. The fee breakdown between ADA and Terracon are as follows:

| | |
|----------|--|
| Terracon | \$7,110.00 (See attached scope and fee proposal as a lump sum basis) |
| ADA | \$6,324.20 (ADA Fee Estimate) |

We look forward to assisting the City on this important project assignment. If you have any questions or need additional information, please do not hesitate to contact Carlos Ortega or me at (305) 551-4608.

Sincerely,

A.D.A. ENGINEERING, INC.



Alex Vazquez, PE, CFM
Vice President/Project Manager

Enclosures:

Man-hour / Fee Estimate
Terracon Proposal



**CITY OF DORAL
GENERAL ENGINEERING/ARCHITECTURAL SERVICES RFQ 2017-21**

**Canal Bank Remediation and Stabilization Design Services - Year 5B:
Truck Pad Geotechnical Engineering Services and Design Coordination**

FEE ESTIMATE

Date: 06/07/2019

| WORK ACTIVITY | Principal/QC | Senior Engineer | Project Engineer | CADD Technician | Inspector | TOTAL HOURS | TOTAL ADA LABOR COST | ESTIMATED EXPENSES ¹ | TOTAL FEE |
|---|--------------|-----------------|------------------|-----------------|-----------|-------------|----------------------|---------------------------------|------------|
| | HOURLY RATE | \$200.00 | \$160.00 | \$130.00 | \$80.00 | | | | |
| Task 1 - Project Coordination and Design Plans Preparation | 2 | 6 | 16 | 16 | | 40 | \$4,720.00 | \$141.60 | \$4,861.60 |
| 1.1 Provide required data and files to Terracon | | | 2 | 2 | | 4 | \$420.00 | \$12.60 | \$432.60 |
| 1.2 Geotechnical engineering stability loading analysis by Terracon | | | | | | | | | |
| 1.3 Review stability loading analysis from Terracon | | 2 | 2 | | | 4 | \$580.00 | \$17.40 | \$597.40 |
| 1.4 Design truck pad based on Terracon's findings | 1 | 2 | 4 | 2 | | 9 | \$1,200.00 | \$36.00 | \$1,236.00 |
| 1.5 Prepare design plan and detail sheet (2 sheets) | 1 | 1 | 6 | 10 | | 18 | \$1,940.00 | \$58.20 | \$1,998.20 |
| 1.6 Prepare opinion of probable construction cost | | 1 | 2 | 2 | | 5 | \$580.00 | \$17.40 | \$597.40 |
| Task 2 - Permitting Coordination | | 4 | 6 | | | 10 | \$1,420.00 | \$42.60 | \$1,462.60 |
| 2.1 Attend one (1) Meeting with DRER for submittal of Class III permit modification | | 2 | 2 | | | 4 | \$580.00 | \$17.40 | \$597.40 |
| 2.2 Submit design plans to DRER for Class III permit modification | | | 2 | | | 2 | \$260.00 | \$7.80 | \$267.80 |
| 2.3 Address comments or RFIs from DRER for Class III permit submittal | | 2 | 2 | | | 4 | \$580.00 | \$17.40 | \$597.40 |
| Total Hours | 2 | 10 | 22 | 16 | | | | | |
| Total Fee | \$400.00 | \$1,600.00 | \$2,860.00 | \$1,280.00 | | 50 | \$6,140.00 | \$184.20 | \$6,324.20 |

Notes: 1- Expenses assumed at 3% of labor

| SUMMARY OF TOTALS | | | | |
|-------------------|--------------------|----------------|------------|-----------------------|
| Sub Consultant | Sub Consultant Fee | Management Fee | Total Fee | Notes |
| Geotechnical | \$7,110.00 | - | \$7,110.00 | See attached proposal |
| TOTALS | \$7,110.00 | | \$7,110.00 | |

TOTAL FEE WORK AUTHORIZATION = **\$13,434.20**

May 8, 2019



A.D.A. Engineering, Inc.
8550 NEW 33rd Street
Doral, Florida 33122

Attn: Mr. Carlos Ortega, P.E.
P: (305) 551-4608
E: COrtega@adaeng.net

Re: Proposal for Geotechnical Engineering Services
Dressel's Canal – Proposed Truck Pad
Between NW 97th Avenue and NW 87th Avenue South of Doral Blvd.
City of Doral, Miami-Dade County, FL
Terracon Proposal No. PH8195023

Dear Mr. Ortega:

We appreciate the opportunity to submit this proposal to A.D.A. Engineering, Inc. (ADA) to provide Geotechnical Engineering services for the above referenced project. The following exhibits are attached and are part of this proposal..

| | |
|-----------|-----------------------------------|
| Exhibit A | Project Understanding |
| Exhibit B | Scope of Services |
| Exhibit C | Compensation and Project Schedule |
| Exhibit D | Site Location |
| Exhibit E | Anticipated Exploration Plan |

Our base fee to perform the Scope of Services described in this proposal is \$6,210.00. In addition, the private utility locates services will be provided for a fee of \$900. Total fees for the project \$7,110.00. See Exhibit C for more details of our fees and consideration of additional services.

Your authorization for Terracon to proceed in accordance with this proposal can be issued by providing an amendment to the existing Task Order agreement between ADA and Terracon for the City of Doral Year 5B project.

Sincerely,
Terracon Consultants, Inc.

Rutu Nulkar, P.E.
Senior Engineer

Kevin E. Aubry, P.E.
Principal Geotechnical Engineer

Proposal for Geotechnical Engineering Services

Dressel's Canal – Proposed Truck Pad ■ City of Doral, Miami-Dade County, FL

May 8, 2019 ■ Terracon Proposal No. PH8195023



EXHIBIT A - PROJECT UNDERSTANDING

Our Scope of Services is based on our understanding of the project as described by ADA and the expected subsurface conditions as described below. We have not visited the project site to confirm the information provided. Aspects of the project, undefined or assumed, are highlighted as shown below. We request the design team verify all information prior to our initiation of field exploration activities.

Other portions of the Year 5 Canals were explored by Terracon in 2015. Geotechnical information from those explorations will be utilized for this study. However, the proposed fire truck pad is located in area where we do not have subsurface data. For that reason, this proposal includes an allowance for drilling a single exploratory boring at the location of the truck pad.

Site Location and Anticipated Conditions

| Item | Description |
|---|--|
| Parcel Information | The project is located along Dressel's Canal Between NW 97th Avenue and NW 87th Avenue South of Doral Blvd. in City of Doral, Miami-Dade County, FL. (See Exhibit D) |
| Existing Improvements | Land surrounding the project site is developed with commercial businesses. The Dressels Canal is fairly linear, with relatively steep banks which are to be stabilized as part of the project. |
| Current Ground Cover | Grass and slightly vegetated. |
| Existing Topography (from google earth) | The project site along the edge of the canal seems to be fairly level. |
| Site Access | We expect the site, and the exploration location, is accessible with our truck-mounted drilling equipment. |
| Expected Subsurface Conditions | Our experience near the vicinity of the proposed canal bank stabilization indicates subsurface conditions consist of 8 inches or less of topsoil underlain by 2 to 4 feet of fill materials comprised of sand-gravel and silt mixtures. This fill material is underlain by limestone formation that extends to a depth of 25 feet below existing grade. Some locations may indicate intermittent sandy soils within the limestone formation. |

Proposal for Geotechnical Engineering Services

Dressel's Canal – Proposed Truck Pad ■ City of Doral, Miami-Dade County, FL

May 8, 2019 ■ Terracon Proposal No. PH8195023



Planned Construction

| Item | Description |
|-----------------------------|---|
| Information Provided | The information was provided via emails dated March 27 and March 29, 2019 |
| Project Description | The project site is along Dressel's canal. It is proposed to construct a fire truck pad between cross sections 32+50 and 33+00 adjacent to the geoweb canal bank stabilization for the Year 5B project that is currently being constructed. The proposed section of the truck pad is 2.5" asphalt, 8" limerock, and 12" subbase. Miami Dade Fire Department will be using this pad for practice with the fire truck with their personnel. |

EXHIBIT B - SCOPE OF SERVICES

Our proposed Scope of Services consists of field exploration, laboratory testing, and engineering/project delivery. These services are described in the following sections.

1. File Review - We will complete a review of geotechnical engineering reports related to canal bank stabilization projects previously completed by this office for the Canal Stabilization project for Year 5.
2. Additional Field Exploration – Drill one (1) Standard Penetration Test (SPT) boring to a depth of 25 feet as described in the Field Exploration Section below.
3. Evaluation of Slope Stability
 - We will work with ADA in the design of typical section at the truck pad for the canal bank stabilization.
 - The canal bank slope stability will be checked using the typical section, the subsurface data from subsurface explorations, and the existing canal cross sections (provided by others). The computer program Slope/W will be utilized to determine the slope stability at the specific location.
 - Modifications to the typical section, if any, will be provided within a brief technical memorandum (i.e. report).

Field Exploration

The field exploration program consists of the following:

| Number of Borings | Planned Boring Depth (feet) ¹ | Planned Location |
|-------------------|--|--------------------|
| 1 | 25 | Proposed Truck pad |

¹. Below ground surface.

Boring Layout and Elevations: We will use handheld GPS equipment to locate borings with an estimated horizontal accuracy of +/-20 feet. Field measurements from existing site features may be utilized.

Subsurface Exploration Procedures: We will advance the soil boring with a truck-mounted drill rig using rotary drilling. Four samples will be obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. Soil sampling is typically performed using thin-wall tube and/or split-barrel sampling procedures. The split-barrel samplers are driven in accordance with the standard penetration test (SPT). The samples will be placed in appropriate containers, taken to our soil laboratory for testing, and classified by a Geotechnical Engineer. In addition, we will observe and record groundwater levels during drilling and sampling.

Proposal for Geotechnical Engineering Services

Dressel's Canal – Proposed Truck Pad ■ City of Doral, Miami-Dade County, FL

May 8, 2019 ■ Terracon Proposal No. PH8195023



Our exploration team will prepare a field boring log as part of standard drilling operations including sampling depths, penetration distances, and other relevant sampling information. The field log includes visual classifications of materials encountered during drilling, and our interpretation of subsurface conditions between samples. The final boring log, prepared from the field log, represent the Geotechnical Engineer's interpretation, and include modifications based on observations and laboratory tests.

Property Disturbance: We will backfill borings with grout upon completion.

Private Utility Locates: Terracon will assist the owner/client by coordinating or subcontracting with a private utility locating services. Fees associated with the additional services are included in our current Scope of Services. Please refer to Exhibit C. The utility locates are performed using Ground Penetrating Radar (GPR). The detection of underground utilities is dependent upon the composition and construction of the utility line; some utilities are comprised of non-electrically conductive materials and may not be readily detected. The use of a private utility locate service would not relieve the owner of their responsibilities in identifying private underground utilities.

Safety

Terracon is not aware of environmental concerns at this project site that would create health or safety hazards associated with our exploration program; thus, our Scope considers standard OSHA Level D Personal Protection Equipment (PPE) appropriate. Our Scope of Services does not include environmental site assessment services, but identification of unusual or unnatural materials encountered while drilling will be noted on our logs and discussed in our report.

Exploration efforts require borings (and possibly excavations) into the subsurface, therefore Terracon will comply with local regulations to request a utility location service through Sunshine One Call. We will consult with the owner/client regarding potential utilities, or other unmarked underground hazards. Based upon the results of this consultation, we will consider the need for alternative subsurface exploration methods, as the safety of our field crew is a priority.

Site Access: Terracon must be granted access to the site by the property owner. By acceptance of this proposal, without information to the contrary, we consider this as authorization to access the property for conducting field exploration in accordance with the Scope of Services.

Laboratory Testing

The project engineer will review field data and assign laboratory tests to understand the engineering properties of various soil and rock strata. Exact types and number of tests cannot be defined until completion of field work. The anticipated laboratory testing may include the following:

- Water content
- Grain size analysis

Proposal for Geotechnical Engineering Services

Dressel's Canal – Proposed Truck Pad ■ City of Doral, Miami-Dade County, FL
May 8, 2019 ■ Terracon Proposal No. PH8195023



- Organic content

Our laboratory testing program often includes examination of soil samples by an engineer. Based on the material's texture and plasticity, we will describe and classify soil samples in accordance with the Unified Soil Classification System (USCS).

Boring log rock classification is determined using the Description of Rock Properties.

Engineering and Project Delivery

Results of our field and laboratory programs will be evaluated by a professional engineer. The engineer will develop a geotechnical site characterization, perform the engineering calculations necessary to evaluate foundation alternatives, and develop appropriate geotechnical engineering design criteria for earth-related phases of the project.

Your project will be delivered using our **GeoReport®** system. Upon initiation, we provide you and your design team the necessary link and password to access the website (if not previously registered). Each project includes a calendar to track the schedule, an interactive site map, a listing of team members, access to the project documents as they are uploaded to the site, and a collaboration portal. The typical delivery process includes the following:

- Project Planning – Proposal information, schedule and anticipated exploration plan will be posted for review and verification
- Site Characterization – Findings of the site exploration
- Geotechnical Engineering – Recommendations and geotechnical engineering report

When utilized, our collaboration portal documents communication, eliminating the need for long email threads. This collaborative effort allows prompt evaluation and discussion of options related to the design and associated benefits and risks of each option. With the ability to inform all parties as the work progresses, decisions and consensus can be reached faster. In some cases, only minimal uploads and collaboration will be required, because options for design and construction are limited or unnecessary. This is typically the case for uncomplicated projects with no anomalies found at the site.

When services are complete, we upload a printable version of our completed geotechnical engineering report, including the professional engineer's seal and signature, which documents our services. Previous submittals, collaboration and the report are maintained in our system. This allows future reference and integration into subsequent aspects of our services as the project goes through final design and construction.

The geotechnical engineering report will provide the following:

- Site Location and Exploration Plans

Proposal for Geotechnical Engineering Services

Dressel's Canal – Proposed Truck Pad ■ City of Doral, Miami-Dade County, FL
May 8, 2019 ■ Terracon Proposal No. PH8195023



- Subsurface exploration procedures
- Description of subsurface conditions
- Groundwater levels observed during and after the completion of drilling
- A description of the slope stability analysis for the cross section including the proposed bank stabilization and the launch pad.
- Results of the stability analysis and recommendations for design and construction of a truck pad that will provide a reasonable factor of safety for canal slope stability.

Additional Services

In addition to the services noted above, the following are often associated with geotechnical engineering services. Fees for services noted above do not include the following:

Observation and Testing of Pertinent Construction Materials: Development of our geotechnical engineering recommendations and report relies on an interpretation of soil conditions. This is based on widely spaced exploration locations, and assuming construction methods will be performed in a manner sufficient to meet our expectations, and is consistent with recommendations made at the time the geotechnical engineering report is issued. We should be retained to conduct construction observations, and perform/document associated materials testing, for site preparation, foundation, and pavement construction. This allows a more comprehensive understanding of subsurface conditions and necessary documentation of construction, to confirm and/or modify (when necessary) the assumptions and recommendations made by our engineers.

Proposal for Geotechnical Engineering Services

Dressel's Canal – Proposed Truck Pad ■ City of Doral, Miami-Dade County, FL
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EXHIBIT C - COMPENSATION AND PROJECT SCHEDULE

Compensation

Based upon our understanding of the site, the project as summarized in Exhibit A, and our planned Scope of Services outlined in Exhibit B, our base fee is shown in the following table:

| Task | Lump Sum Fee |
|---|---------------------|
| Subsurface Exploration, Laboratory Testing, Geotechnical Consulting & Reporting | \$6,210.00 |
| Private Utility Locate Service | \$900 |
| TOTAL PROJECT FEES | \$ 7,110.00 |

Additional services not part of the base fee include the following:

| Additional Services (see Exhibit B) | Lump Sum Fee | Initial for Authorization |
|--|---------------------|----------------------------------|
| Construction Materials Testing Services | TBD | |

Our Scope of Services does not include services associated with site clearing, wet ground conditions, tree or shrub clearing, or repair of/damage to existing landscape. If such services are desired by the owner/client, we should be notified so we can adjust our Scope of Services.

Unless instructed otherwise, we will submit our invoice(s) to the address shown at the beginning of this proposal. If conditions are encountered that require Scope of Services revisions and/or result in higher fees, we will contact you for approval, prior to initiating services. A supplemental proposal stating the modified Scope of Services as well as its effect on our fee will be prepared. We will not proceed without your authorization.

Project Schedule

We developed a schedule to complete the Scope of Services based upon our existing availability and understanding of your project schedule. However, this does not account for delays in field exploration beyond our control, such as weather conditions, permit delays, or lack of permission to access the boring locations. In the event the schedule provided is inconsistent with your needs, please contact us so we may consider alternatives.

Proposal for Geotechnical Engineering Services

Dressel's Canal – Proposed Truck Pad ■ City of Doral, Miami-Dade County, FL

May 8, 2019 ■ Terracon Proposal No. PH8195023



| <i>GeoReport</i> ® Delivery | Posting Date from Notice to Proceed ^{1, 2} |
|-----------------------------|---|
| Project Planning | 2-3 days |
| Site Characterization | 7-8 days |
| Geotechnical Engineering | 20 days |

1. Upon receipt of your notice to proceed we will activate the schedule component of our *GeoReport*® website with specific, anticipated business days for the three delivery points noted above as well as other pertinent events such as field exploration crews on-site, etc.
2. We will maintain a current calendar of activities within our *GeoReport*® website. In the event of a need to modify the schedule, the schedule will be updated to maintain a current awareness of our plans for delivery.

SITE LOCATION
Dressel's Canal Proposed Truck Pad ■ Doral, FL
April 23, 2019 ■ Terracon Project No. PH8195023

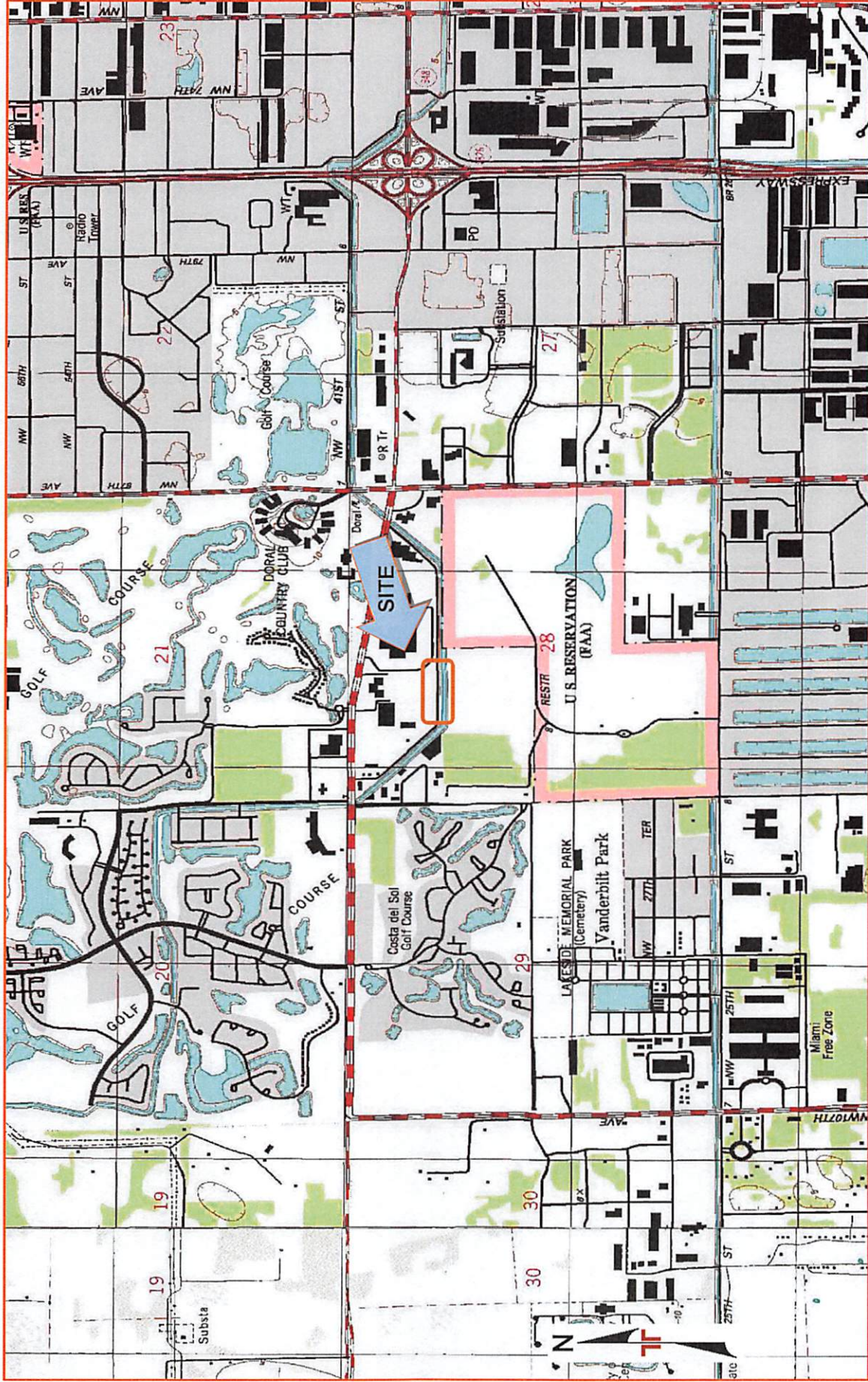


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT
INTENDED FOR CONSTRUCTION PURPOSES

TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: HIALEAH SW, FL (1/11/1995) and HIALEAH, FL (1/11/1994).

EXPLORATION PLAN
Dressel's Canal Proposed Truck Pad ■ Doral, FL
April 23, 2019 ■ Terracon Project No. PH8195023



AERIAL PHOTOGRAPHY PROVIDED BY
MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT
INTENDED FOR CONSTRUCTION PURPOSES

ATTACHMENT 1

| | | | | | | | | | | | | | |
|---|--|---|------|------------|-------------------|---------------------------------|---------------|-------------------------------|--------------------|--------------------------|-------------------------------|------------------------------|-------------------|
| Project Name: | | Dressel's Canal - Proposed Fire Truck Pad | | | | Terracon Consultants, Inc. | | | | | | | |
| Client: | | A.D.A. Engineering Inc. | | | | 16200 NW 59th Avenue, Suite 106 | | | | | | | |
| Dunkelberger Project No.: | | | | | | Miami Lakes, FL 33014 | | | | | | | |
| Date: | | April 5, 2019 | | | | Ph: (305) 820-1997 | | | Fx: (305) 820-1998 | | Contact: Kevin E. Aubry, P.E. | | |
| Geotechnical Services | | Contract Amount | | | | Previously Completed | | Completed This Invoice | | Completed to Date | | Remaining on Contract | |
| | | Qty | Unit | Price | Amount | Qty | Amount | Qty | Amount | Qty | Amount | Qty | Amount |
| Task 1- File Review | | | | | | | | | | | | | |
| Sen. Project Engineer/Scientist | | 2 | HR | \$140.00 | \$280.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$280.00 |
| Subtotal | | | | | \$280.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$280.00 |
| Task 2 - Additional Subsurface Exploration | | | | | | | | | | | | | |
| Stake Borings and Utility Clearance | | 6 | HR | \$85.00 | \$510.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 6 | \$510.00 |
| Drilling Rig Mobilization | | 1 | EA | \$350.00 | \$350.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 1 | \$350.00 |
| SPT Borings | | 25 | FT | \$15.00 | \$375.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 25 | \$375.00 |
| Grout Seal Boreholes | | 25 | FT | \$5.00 | \$125.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 25 | \$125.00 |
| Moisture Content Tests | | 4 | EA | \$10.00 | \$40.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 4 | \$40.00 |
| Organic Content Tests | | 2 | EA | \$35.00 | \$70.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$70.00 |
| Grain Size Tests | | 2 | EA | \$65.00 | \$130.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$130.00 |
| Tech Memo - Factual Data Report | | 0 | LS | \$1,000.00 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Subtotal | | | | | \$1,600.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$1,600.00 |
| Task 3 - Evaluation of Slope Stability | | | | | | | | | | | | | |
| Principal Engineer | | 2 | HR | \$165.00 | \$330.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$330.00 |
| Sen. Project Engineer/Scientist | | 8 | HR | \$140.00 | \$1,120.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 8 | \$1,120.00 |
| Project Engineer/Scientist | | 12 | HR | \$125.00 | \$1,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 12 | \$1,500.00 |
| Staff Engineer/Scientist | | 0 | HR | \$85.00 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| CADD Drafting | | 0 | HR | \$80.00 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Word Processing & Clerical | | 0 | HR | \$50.00 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Subtotal | | | | | \$2,950.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$2,950.00 |
| Task 4 - Report | | | | | | | | | | | | | |
| Principal Engineer | | 2 | HR | \$165.00 | \$330.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$330.00 |
| Sen. Project Engineer/Scientist | | 6 | HR | \$140.00 | \$840.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 6 | \$840.00 |
| Project Engineer/Scientist | | 0 | HR | \$125.00 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| CADD Drafting | | 2 | HR | \$80.00 | \$160.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$160.00 |
| Word Processing & Clerical | | 1 | HR | \$50.00 | \$50.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 1 | \$50.00 |
| Subtotal | | | | | \$1,380.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$1,380.00 |
| Task 5 - Meetings | | | | | | | | | | | | | |
| Principal Engineer (1 meeting) | | 0 | HR | \$165.00 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Travel Expenses | | 0 | EA | \$75.00 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Subtotal | | | | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 |

Total Fee Estimate \$6,210.00