

February 23, 2026

**Kyle B. Arrison, Director**  
**Transportation, Stormwater, Construction Services**  
**City of Pinellas Park**  
Public Works Operation Center  
6250 82nd Ave,  
Pinellas Park, FL 33781

Subject: **Proposal for Jan Cory Subdivision Stormwater Improvements Design**  
Professional Services Continuing Contract 23.004  
Pinellas Park, Florida

Dear Mr. Arrison

Geosyntec Consultants, Inc. (Geosyntec) is pleased to provide this proposal for providing our services for the above referenced project.

## **BACKGROUND**

The project area is in the neighborhood bounded to the north by 90<sup>th</sup> Avenue North, to the south by 86<sup>th</sup> Avenue and Pinellas Park Ditch 1, the east by 66<sup>th</sup> Street, and the west by 70<sup>th</sup> Street North.

Geosyntec previously completed a feasibility study to develop four (4) improvement alternatives to alleviate flooding at the intersections of 88<sup>th</sup> Avenue North and 68<sup>th</sup> Street North, and 88<sup>th</sup> Avenue North and 67<sup>th</sup> Way North, and stormwater conveyance issues within the ditch along the east side of 68<sup>th</sup> Street North. The selected design consists of installing approximately 2-3 inlets per intersection as well as converting the existing roadside swales into a closed pipe system. Additionally, the design involves installing a Nutrient Separating Baffle Box (NSBB) at the existing outfall on 68<sup>th</sup> Street North to provide water quality benefit in addition to the water quantity benefit. The other outfalls within the project area are proposed to be re-directed to the NSBB to provide one outfall for the project area.

The City has requested that Geosyntec prepare an additional scope of work for the design effort associated with the selected improvement alternative.

## **SCOPE OF WORK**

The consultant shall perform the following scope of services to meet the goals of the project.

### **1. TASK 1: Project Kick-off**

- 1.1. Attend a **Project Kick-off Meeting** to discuss problem issues with the City to discuss project scope and goals.
- 1.2. Prepare email meeting summary.

### **2. TASK 2: Geotechnical Evaluation** - Perform subsurface soil investigation and groundwater level determination within the project corridor. This work will be conducted by *Tierra* in accordance with their subconsultant proposal included in **Attachment B**. Geosyntec will provide QA/QC review of

subconsultant work product. The scope will include borings and soil laboratory tests to confirm field conditions. Construction recommendations will also be provided based on conditions. Geosyntec will prepare a summary of the geotechnical finding for the drainage report

3. **TASK 3: Topographic Survey** – Perform a detailed topographic survey of the project area to support development of the proposed design. This work will be conducted by *ECHO UES* in accordance with their subconsultant proposal included in **Attachment B**. This will include setting benchmarks, marking identified utilities, and locating right-of-way. Geosyntec will provide QA/QC review of subconsultant work product.
4. **TASK 4: Prepare 60% Construction Plans and Cost Estimate** - for the City’s review based on the selected improvement alternative from the draft feasibility study.
  - 4.1. Geosyntec will prepare 60% plans which will be 11”x17” format and are anticipated to include the following sheets:
    - Cover Sheet with Location and Benchmark References – 1 sheet
    - General Notes, Summary of Quantities, and Summary of Pay Items – 3 sheet
    - Project Survey Layout, Benchmark, and Reference Ties Sheet – 2 sheet
    - Plan and Profile– 6 sheets @ 1”=20’ scale
    - Cross-Sections – 4 per sheet – 3 sheets @ key locations
    - Drainage & Miscellaneous Details – 3 sheets
    - Stormwater Pollution Prevention and Control Plan (SWPPP) and Temporary Erosion Control Plan – 2 sheets
    - Maintenance of Traffic and Access Control – 1 sheet
  - 4.2 Geosyntec staff will prepare an engineer’s Cost Estimate and construction quantities computation.
  - 4.3 Geosyntec staff will update the Jan Cory Subdivision Stormwater Improvements feasibility study technical memorandum and modify as necessary to generate the drainage report for permitting. This will be submitted to the City with each of the interval submittals.
  - 4.4 Senior review of 60% Design Deliverables.
  - 4.5 Geosyntec staff will assemble and transmit Plans and Cost Estimates for City review at 90% and Final plans intervals. Submittals will be electronically in PDF.
  - 4.6 Small group meetings with the City to review any comments. Meeting coordination, meeting agendas, and meeting summaries.
5. **TASK 5: Utility Coordination** - Geosyntec staff will forward copies of 90% plans to identified utilities to solicit input on possible conflicts. Responses will be compiled and forwarded to the City. Utility markups will be incorporated into the final plans if necessary.
  - 5.1. Prepare utility coordination correspondence – Identify utility companies and contacts by obtaining a design ticket from Sunshine State One Call of Florida for utilities in the vicinity of project. Prepare and send out coordination emails to identified utility company contacts.
  - 5.2. Prepare Utility Coordination Summary Memo.

5.3. Small group meetings with the City to review any comments. Meeting coordination, meeting agendas, and meeting summaries.

6. **TASK 6: Prepare Draft SWFWMD Permit Application Documents** – including Drainage Report (based on Technical Memorandum from previously completed feasibility study with updates related to design specifics) and permit application forms (assume a general permit for stormwater retrofit based on pre-application meeting held with SWFWMD as part of the feasibility study). The draft permit package will be submitted to the City for review at the same time as the 90% plans submittal.

6.1. Permit Application Forms

6.2. Compile Figures, Tables, and Appendices

6.3. Senior review of Draft SWFWMD Permit Application

6.4. Assemble Permit Application Forms in PDF for City review

7. **TASK 7: Prepare 90% Construction Plans, Cost Estimate, and Technical Specifications** - for the City's review based on the selected improvement alternative from the draft feasibility study.

7.1. Incorporate City Comments on 60% Construction Plans, Cost Estimate and Drainage Report.

7.2. Preparation of Technical Specifications (General and Standard) will be done by Geosyntec staff.

7.3. Senior review of 90% Design Deliverables

7.4. Small group meetings with the City to review any comments. Meeting coordination, meeting agendas, and meeting summaries.

*It is assumed that the technical specifications will be standard City provisions for standard pay items. Any non-standard specifications for drainage improvements will be prepared by Geosyntec.*

*It is assumed that no additional sheets will be created beyond what is defined above and submitted as part of the 90% submittal based on City comments. Should efforts require the creation of additional sheets this additional effort will be performed under a change order..*

8. **TASK 8: Prepare Final SWFWMD Permit Application Documents** – incorporating City comments on the draft permit package. This will include application forms and include the final plans. Note that this will be an electronic “ePermitting” submittal to SWFWMD. It is assumed that the City will pay the permit fee. Addressing any requests for additional information (RAIs) issued by the SWFWMD will be included.

8.1. Permit Forms Revisions

8.2. Senior review of Final SWFWMD Permit Application

8.3. Up to 2 meetings with SWFWMD

8.4. Prepare and submit electronic “ePermitting” submittal to SWFWMD, address RAIs. It is noted that the City will not provide a change order to address additional RAIs beyond what is budgeted for here.

9. **TASK 9: Final Construction Plans, Cost Estimate, and Technical Specifications** - for the City's review based on the selected improvement alternative from the draft feasibility study.

9.1. Incorporate City and SWFWMD Comments on 90% Construction Plans, Cost Estimate, Drainage Report, and Technical Specifications.

9.2. Senior Review

9.3. Small group meetings with the City to review any comments. Meeting coordination, meeting agendas, and meeting summaries

*Note that it is assumed that any revisions to the Final Construction Plans submittal will consist of minor updates based on optional permit review and nominal City comments. It is assumed that no significant design changes will be required after this submittal. Should efforts require more than 8 hours to address comments this additional effort will be performed under a change order*

10. **TASK 10: Project Management** - consisting of the following tasks:

10.1 Project administration setup

10.2 Management and QA/QC of project staff

10.3 Management of Subconsultants

10.4 Project tracking, schedule updates, miscellaneous project meetings, status reports, etc.

11. **TASK 11: Post Design Services** - to include pre-bid meeting, pre-construction meeting, shop drawing review, RAI from contractor, construction meetings, and final walkthrough

11.1 Pre-Bid Meeting with City – Schedule and attend one (1) pre-bid meeting with City staff and assist the City with preparation of any required bid addendums. This meeting is assumed to be remote.

11.2 Pre-Construction Meeting with City and Contractor – Schedule and attend one (1) pre-construction meeting with City staff and contractor. This meeting is assumed to be remote.

11.3 Respond to request for information (RFI) from Contractor – Respond to RFIs from the Contractor.

11.4 Review shop drawings – Review and provide comments on shop drawings from Contractor.

11.5 Construction observation events – Perform site meetings to review construction work during construction activities. A summary of the observations will be provided by Geosyntec to the City. Three (3) field truck days assumed to support this.

11.6 Final Walkthrough – Perform final walkthrough, develop punch list to closeout project. One (1) field truck day assumed to support this.

11.7 Review as-built drawings – Review the as-built drawings and certify the project was built in general accordance with the design plans. It is assumed that the contractor will supply the as-built drawings for Geosyntec to review. This is to include the construction completion certification required for the SWFWMD permit.

*Note that post design is limited to field participate and not full time construction engineering and inspection.*

**DELIVERABLES**

a) 60%, 90% and Final Plans – All submittals are assumed to be electronic.

b) 60%, 90% and Final Engineer's Opinion of Probable Cost, technical specifications, and bid package technical provisions – Digital Excel and PDF copies shall be submitted for the City's review with any relevant data supporting the electronic deliverables.

c) Draft Permit Package – Digital PDF copy shall be submitted for the City's review.

- d) Final Permit Package – Digital PDF copy shall be submitted for the City’s records.
- e) Utility Coordination Memorandum – Digital PDF shall be submitted to for the City’s records.
- f) Final Plans, Engineer’s Opinion of Probable Cost, and Technical Specifications – digital Excel and PDF copies shall be submitted for the City’s use with any relevant data supporting the electronic deliverables.
- g) If any changes are made to the StormWise model from the feasibility study, updated StormWise files and GIS feature classes will be provided to the City.

### **SCOPE ASSUMPTIONS**

- i. The City will make all pertinent data available to Geosyntec, including copies of all scanned documents. Hard copy documents will be made available for scanning.
- ii. This scope of services has assumed that the consultant will not be involved in any public involvement meetings during the duration of the project, **except for that identified above**.
- iii. Additional assumptions are provided in the subconsultants proposals attached.
- iv. The scope does not include the preparation of an N.P.D.E.S. permit application for construction.
- v. It is assumed that no utility adjustments will be necessary for the construction of this project. No utility adjustment plans are included in the scope. If this service is determined necessary, it can be provided through an additional scope of work.

### **BUDGET ESTIMATE**

Geosyntec proposes to provide the services discussed herein for **\$213,822.83** on a lump sum basis, in accordance with the terms and conditions specified herein and pursuant to Professional Services Continuing Contract 23.004. The lump sum amount is based on our estimated budget for performing these services, which includes the labor and other direct costs necessary to complete the work scope described in the proposal, as detailed in **Attachment A**.

Project efforts will be billed to the City on a lump sum task percent complete basis, based on the major tasks defined in the cost build-up spreadsheet in **Attachment A**. Invoices will be structured to list project tasks (and subconsultant / combined other direct cost) with accomplished percent complete, then corresponding budget invoiced, overall budget expended and overall budget remaining.

## SCHEDULE

Geosyntec can begin work immediately upon receipt of the Notice to Proceed (NTP) and proceed per the estimated schedule below. We expect completion within approximately 280 days from NTP.

	<u>Number of Weeks From NTP</u>
Task 1 – Project Kick-off	1
Task 2 – Geotechnical Investigation	9
Task 3 – Topographic Survey	9
Task 4 – 60% Design, Drainage Report, and Draft Permit Package	26
Task 5 – Utility Coordination	30
Task 6 – 90% Design, Drainage Report, and Draft Permit Package	36
Task 7 – Address RAI’s Submit Final Design	40

*Note: Project schedule does not include post design.*

## CLOSURE

We appreciate the opportunity to work with the City on this project. Should you have any questions or comments regarding this proposal, please do not hesitate to contact us at (727) 330-9964.

Sincerely,  
**Geosyntec Consultants, Inc.**



Scott M. Deitche, ENV SP  
Senior Principal, Project Manager  
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Nick Hartshorn, PE  
Water Resources Engineer  
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Attachments

- A – Manhour and Fee Estimate
- B – Subconsultant Scope and Fees

**ATTACHMENT A**

**MANHOUR AND FEE ESTIMATE**

**EXHIBIT A1 - FEE ESTIMATE**

**JAN CORY SUBDIVISION STORMWATER IMPROVEMENTS DESIGN**

Pinellas Park, Florida

Date: 02/18/26

Contract: Professional Services Continuing Contract 23.004

Task	Activity	Senior Principal		Senior Professional		Project Professional		Senior Staff Professional		Staff Professional		Senior Drafter/Senior CADD Operator		Clerical		Basic Activity Amount	Man-hours by Activity	Average Hourly Rate
		Rate =	Cost	Rate =	Cost	Rate =	Cost	Rate =	Cost	Rate =	Cost	Rate =	Cost	Rate =	Cost			
		Manhours		Manhours		Manhours		Manhours		Manhours		Manhours		Manhours				
<b>1 Project Kick-off</b>																		
1.1	Project Kick-off Meeting	1	\$295.00	2	\$510.00	2	\$460.00		\$0.00		\$0.00		\$0.00		\$0.00	\$1,265.00	5	\$253.00
1.2	Email Meeting Summary	1	\$295.00		\$0.00	1	\$230.00		\$0.00		\$0.00		\$0.00	1	\$70.00	\$595.00	3	\$198.33
<b>SUBTOTAL</b>		<b>2</b>	<b>\$590.00</b>	<b>2</b>	<b>\$510.00</b>	<b>3</b>	<b>\$690.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>1</b>	<b>\$70.00</b>	<b>\$1,860.00</b>	<b>8</b>	<b>\$232.50</b>
<b>2 Geotechnical Investigation</b>																		
2.1	Coordination of Geotechnical Investigation		\$0.00		\$0.00	2	\$460.00	2	\$360.00	10	\$1,550.00		\$0.00		\$0.00	\$2,370.00	14	\$169.29
<b>SUBTOTAL</b>		<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>2</b>	<b>\$460.00</b>	<b>2</b>	<b>\$360.00</b>	<b>10</b>	<b>\$1,550.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$2,370.00</b>	<b>14</b>	<b>\$169.29</b>
<b>3 Topographical Survey</b>																		
3.1	Coordination of Topographical Survey		\$0.00		\$0.00	2	\$460.00	2	\$360.00	10	\$1,550.00		\$0.00		\$0.00	\$2,370.00	14	\$169.29
<b>SUBTOTAL</b>		<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>2</b>	<b>\$460.00</b>	<b>2</b>	<b>\$360.00</b>	<b>10</b>	<b>\$1,550.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$2,370.00</b>	<b>14</b>	<b>\$169.29</b>
<b>4 60% Design Plans and Cost Estimate</b>																		
4.1	Prepare 60% Design Plans																	
	Cover Sheet with Location and Benchmark References - 1 sheet		\$0.00	1	\$230.00	2	\$360.00		\$0.00	2	\$290.00		\$0.00		\$880.00	5	\$176.00	
	General Notes, Summary of Qtys and Pay Items - 3 sheets		\$0.00	3	\$690.00	2	\$360.00		\$0.00	2	\$290.00		\$0.00		\$1,340.00	7	\$191.43	
	Project Layout, Benchmark, and Reference Ties Sheet - 1 sheet		\$0.00	3	\$690.00	2	\$360.00		\$0.00	2	\$290.00		\$0.00		\$1,340.00	7	\$191.43	
	Plan and Profile - 2 sheets		\$0.00	10	\$2,300.00	17	\$3,060.00	15	\$2,325.00	12	\$1,740.00		\$0.00		\$9,425.00	54	\$174.54	
	Cross-Sections - 4 per sheet - 2 sheets		\$0.00	5	\$1,150.00	8	\$1,440.00		\$0.00	6	\$870.00		\$0.00		\$3,460.00	19	\$182.11	
	Drainage & Miscellaneous Details - 3 sheets		\$0.00	18	\$4,140.00	18	\$3,240.00		\$0.00	28	\$4,060.00		\$0.00		\$11,440.00	64	\$178.75	
	SWPPP and Temporary Erosion Control Plan - 2 sheets		\$0.00	6	\$1,380.00	5	\$900.00	5	\$775.00	2	\$290.00		\$0.00		\$3,345.00	18	\$185.83	
	Maintenance of Traffic and Access Control - 1 sheet		\$0.00	10	\$2,300.00	8	\$1,440.00	4	\$620.00	4	\$580.00		\$0.00		\$4,940.00	26	\$190.00	
4.2	Cost Estimate and Construction Quantities		\$0.00	5	\$1,275.00	8	\$1,840.00	10	\$1,800.00	9	\$1,395.00	10	\$1,450.00		\$7,760.00	42	\$184.76	
4.3	Prepare and Update Drainage Report		\$0.00	5	\$1,275.00	16	\$3,680.00	30	\$5,400.00	8	\$1,240.00		\$0.00		\$11,595.00	59	\$196.53	
4.5	Senior Review	4	\$1,180.00	3	\$765.00	4	\$920.00		\$0.00	1	\$155.00		\$0.00		\$3,020.00	12	\$251.67	
4.6	Assemble and Transmit 60% Deliverable		\$0.00	3	\$765.00	2	\$460.00		\$0.00	6	\$930.00		\$0.00	3	\$210.00	\$2,365.00	14	\$168.93
<b>SUBTOTAL</b>		<b>4</b>	<b>\$1,180.00</b>	<b>16</b>	<b>\$4,080.00</b>	<b>86</b>	<b>\$19,780.00</b>	<b>102</b>	<b>\$18,360.00</b>	<b>48</b>	<b>\$7,440.00</b>	<b>68</b>	<b>\$9,860.00</b>	<b>3</b>	<b>\$210.00</b>	<b>\$60,910.00</b>	<b>327</b>	<b>\$186.27</b>
<b>5 Utility Coordination</b>																		
5.1	Prepare Utility Coordination Correspondence		\$0.00	8	\$2,040.00		\$0.00		\$0.00	14	\$2,170.00		\$0.00		\$4,210.00	22	\$191.36	
5.2	Prepare Utility Coordination Summary Memo		\$0.00	4	\$1,020.00		\$0.00		\$0.00	4	\$620.00		\$0.00		\$1,640.00	8	\$205.00	
<b>SUBTOTAL</b>		<b>0</b>	<b>\$0.00</b>	<b>12</b>	<b>\$3,060.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>18</b>	<b>\$2,790.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$5,850.00</b>	<b>30</b>	<b>\$195.00</b>
<b>6 Draft SWFWMD Permitting</b>																		
6.1	Permit Application Forms		\$0.00	2	\$510.00	8	\$1,840.00		\$0.00	18	\$2,790.00		\$0.00		\$5,140.00	28	\$183.57	
6.2	Compile Figures, Tables, Appendices		\$0.00	2	\$510.00	12	\$2,760.00		\$0.00	25	\$3,875.00		\$0.00		\$7,145.00	39	\$183.21	
6.3	Senior Review	2	\$590.00	4	\$1,020.00		\$0.00		\$0.00		\$0.00		\$0.00		\$1,610.00	6	\$268.33	
6.4	Assemble Permit Application for City Review		\$0.00	2	\$510.00	2	\$460.00		\$0.00	2	\$310.00		\$0.00	1	\$70.00	\$1,350.00	7	\$192.86
<b>SUBTOTAL</b>		<b>2</b>	<b>\$590.00</b>	<b>10</b>	<b>\$2,550.00</b>	<b>22</b>	<b>\$5,060.00</b>	<b>0</b>	<b>\$0.00</b>	<b>45</b>	<b>\$6,975.00</b>	<b>0</b>	<b>\$0.00</b>	<b>1</b>	<b>\$70.00</b>	<b>\$15,245.00</b>	<b>80</b>	<b>\$190.56</b>

**EXHIBIT A1 - FEE ESTIMATE**

**JAN CORY SUBDIVISION STORMWATER IMPROVEMENTS DESIGN**

Pinellas Park, Florida

**Date:** 02/18/26  
**Contract:** Professional Services Continuing Contract 23.004

Task	Activity	Senior Principal		Senior Professional		Project Professional		Senior Staff Professional		Staff Professional		Senior Drafter/Senior CADD Operator		Clerical		Basic Activity Amount	Man-hours by Activity	Average Hourly Rate
		Rate =	Cost	Rate =	Cost	Rate =	Cost	Rate =	Cost	Rate =	Cost	Rate =	Cost	Rate =	Cost			
		\$295.00		\$255.00		\$230.00		\$180.00		\$155.00		\$145.00		\$70.00				
<b>7 90% Design Plans, Cost Estimate, and Technical Specifications</b>																		
7.1	Address City Comments on 60% Deliverable		\$0.00	3	\$765.00	10	\$2,300.00		\$0.00	20	\$3,100.00		\$0.00		\$0.00	\$6,165.00	33	\$186.82
7.2	Preparation of Technical Specifications		\$0.00	4	\$1,020.00	15	\$3,450.00	16	\$2,880.00	14	\$2,170.00	6	\$870.00		\$0.00	\$10,390.00	55	\$188.91
7.3	Senior Review	2	\$590.00	4	\$1,020.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$1,610.00	6	\$268.33
7.4	Small Group Meetings		\$0.00	2	\$510.00	2	\$460.00		\$0.00	2	\$310.00		\$0.00	1	\$70.00	\$1,350.00	7	\$192.86
7.5	Assemble and Transmit 90% Design Deliverable		\$0.00	2	\$510.00	2	\$460.00		\$0.00	2	\$310.00		\$0.00	1	\$70.00	\$1,350.00	7	\$192.86
<b>SUBTOTAL</b>		<b>2</b>	<b>\$590.00</b>	<b>15</b>	<b>\$3,825.00</b>	<b>29</b>	<b>\$6,670.00</b>	<b>16</b>	<b>\$2,880.00</b>	<b>38</b>	<b>\$5,890.00</b>	<b>6</b>	<b>\$870.00</b>	<b>2</b>	<b>\$140.00</b>	<b>\$20,865.00</b>	<b>108</b>	<b>\$193.19</b>
<b>8 Final SWFWMD Permitting</b>																		
8.1	Permit Forms Revisions		\$0.00	1	\$255.00	2	\$460.00		\$0.00	6	\$930.00		\$0.00		\$0.00	\$1,645.00	9	\$182.78
8.2	Senior Review		\$0.00	1	\$255.00	1	\$230.00		\$0.00		\$0.00		\$0.00		\$0.00	\$485.00	2	\$242.50
8.3	Submit to SWFWMD and address RAIs	1	\$295.00	1	\$255.00	2	\$460.00		\$0.00	12	\$1,860.00		\$0.00		\$0.00	\$2,870.00	16	\$179.38
<b>SUBTOTAL</b>		<b>1</b>	<b>\$295.00</b>	<b>3</b>	<b>\$765.00</b>	<b>5</b>	<b>\$1,150.00</b>	<b>0</b>	<b>\$0.00</b>	<b>18</b>	<b>\$2,790.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$5,000.00</b>	<b>27</b>	<b>\$185.19</b>
<b>9 Final Design Plans, Cost Estimate, and Technical Specifications</b>																		
9.1	Address City Comments on 90% Deliverable		\$0.00	2	\$510.00	2	\$460.00		\$0.00	4	\$620.00		\$0.00		\$0.00	\$1,590.00	8	\$198.75
9.2	Senior Review	2	\$590.00	4	\$1,020.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$1,610.00	6	\$268.33
9.3	Small Group Meetings		\$0.00	2	\$510.00	2	\$460.00		\$0.00	2	\$310.00		\$0.00	1	\$70.00	\$1,350.00	7	\$192.86
9.4	Assemble and Transmit Final Design Deliverable		\$0.00	2	\$510.00	2	\$460.00		\$0.00	2	\$310.00		\$0.00	1	\$70.00	\$1,350.00	7	\$192.86
<b>SUBTOTAL</b>		<b>2</b>	<b>\$590.00</b>	<b>10</b>	<b>\$2,550.00</b>	<b>6</b>	<b>\$1,380.00</b>	<b>0</b>	<b>\$0.00</b>	<b>8</b>	<b>\$1,240.00</b>	<b>0</b>	<b>\$0.00</b>	<b>2</b>	<b>\$140.00</b>	<b>\$5,900.00</b>	<b>28</b>	<b>\$210.71</b>
<b>10 Project Management</b>																		
10.1	Project Administration Setup	1	\$295.00	1	\$255.00	3	\$690.00		\$0.00		\$0.00		\$0.00	3	\$210.00	\$1,450.00	8	\$181.25
10.2	Management and QA/QC of project staff	9	\$2,655.00	11	\$2,805.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$5,460.00	20	\$273.00
10.3	Management of Subconsultants	4	\$1,180.00	4	\$1,020.00	8	\$1,840.00	8	\$1,440.00		\$0.00		\$0.00	12	\$840.00	\$6,320.00	36	\$175.56
10.4	Project tracking, schedule updates, meetings, status reports, etc.	9	\$2,655.00		\$0.00	20	\$4,600.00		\$0.00		\$0.00		\$0.00	8	\$560.00	\$7,815.00	37	\$211.22
<b>SUBTOTAL</b>		<b>23</b>	<b>\$6,785.00</b>	<b>16</b>	<b>\$4,080.00</b>	<b>31</b>	<b>\$7,130.00</b>	<b>8</b>	<b>\$1,440.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>23</b>	<b>\$1,610.00</b>	<b>\$21,045.00</b>	<b>101</b>	<b>\$208.37</b>
<b>11 Post Design Services</b>																		
11.1	Pre-Bid Meeting with City	1	\$295.00	2	\$510.00	2	\$460.00	2	\$360.00		\$0.00		\$0.00		\$0.00	\$1,625.00	7	\$232.14
11.2	Pre-Construction Meeting with City	1	\$295.00	3	\$765.00	4	\$920.00	4	\$720.00		\$0.00		\$0.00		\$0.00	\$2,700.00	12	\$225.00
11.3	Respond to Request for Information (RFI) from Contractor	2	\$590.00	4	\$1,020.00	5	\$1,150.00	7	\$1,260.00		\$0.00		\$0.00		\$0.00	\$4,020.00	18	\$223.33
11.4	Review Shop Drawings	2	\$590.00	4	\$1,020.00	5	\$1,150.00	7	\$1,260.00		\$0.00		\$0.00		\$0.00	\$4,020.00	18	\$223.33
11.5	Construction Observation Events	2	\$590.00	2	\$510.00	2	\$460.00	7	\$1,260.00		\$0.00		\$0.00		\$0.00	\$2,820.00	13	\$216.92
11.8	Final Walkthrough	1	\$295.00	2	\$510.00	2	\$460.00	4	\$720.00		\$0.00		\$0.00		\$0.00	\$1,985.00	9	\$220.56
11.7	Review As-Built Drawings	2	\$590.00	3	\$765.00	3	\$690.00	4	\$720.00		\$0.00		\$0.00		\$0.00	\$2,765.00	12	\$230.42
<b>SUBTOTAL</b>		<b>11</b>	<b>\$3,245.00</b>	<b>20</b>	<b>\$5,100.00</b>	<b>23</b>	<b>\$5,290.00</b>	<b>35</b>	<b>\$6,300.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$19,935.00</b>	<b>89</b>	<b>\$223.99</b>
<b>SUB-TOTAL (LUMP SUM FEE):</b>		<b>47</b>	<b>\$13,865.00</b>	<b>104</b>	<b>\$26,520.00</b>	<b>209</b>	<b>\$48,070.00</b>	<b>165</b>	<b>\$29,700.00</b>	<b>195</b>	<b>\$30,225.00</b>	<b>74</b>	<b>\$10,730.00</b>	<b>32</b>	<b>\$2,240.00</b>	<b>\$161,350.00</b>	<b>826</b>	

SUBCONSULTANTS				
	Name	M/WBE/ SDV Status	Amount	Percentage
1	ECHO UES, Inc.		\$38,450.76	18.0%
2	Tierra, Inc.		\$13,215.32	6.2%
<b>Total Subconsultant Fees:</b>			<b>\$51,666.08</b>	<b>24.2%</b>

TOTAL LUMP SUM FEE COMPUTATIONS	
(1) Salary Cost (from above)	= \$161,350.00
(2) Other Direct Costs (0.5% of Salary Cost)	+ \$806.75
(3) Subtotal (Consultant's Fees) [(1)+(2)]	= \$162,156.75
(4) Subconsultant's Fees (from left)	+ \$51,666.08
<b>Proposed Total Lump Sum Fee [(3)+(4)]</b>	<b>= \$213,822.83</b>

**ATTACHMENT B**  
**SUBCONSULTANT SCOPE AND FEES**

# TIERRA

February 17, 2026

Geosyntec Consultants, Inc.  
11301 Corporate Blvd., Building 400, Suite 305  
Orlando, FL 32817

Attn: Ms. Karli Mahoney, EI

**RE: Proposal for Geotechnical Engineering Services  
Jan Cory Improvements  
Pinellas County, Florida  
Proposal No. 65-25-107**

Ms. Mahoney:

Tierra, Inc. appreciates the opportunity to submit this proposal to provide geotechnical engineering services for the project.

## **Project Information**

The project, as Tierra understands it, is to develop drainage improvements (approximately 0.35 miles) between 90<sup>th</sup> Ave and 86<sup>th</sup> Ave in Pinellas County. An alternative site plan is included as an Attachment. This proposal has been developed to support the project development, as Tierra understands the current concept plans. Depending on final design plans, additional geotechnical services may be required.

Based on a review of aerial information, the project area is accessible once coordination and notification to property owners have occurred.

## **Scope of Services**

The objective of our study will be to obtain information concerning subsurface conditions at the site to base engineering estimates and recommendations in each of the following areas, as also described on the attached Alternative Infrastructure Map in the Attachments:

1. General location and description of potentially deleterious materials or conditions discovered in the borings which may interfere with design or construction progress including, clays, existing fills, and/or organic soils.
2. Provide geotechnical design parameters to support the drainage design. Parameters will include:
  - a. In-situ soil vertical and horizontal hydraulic conductivity (permeability) rates
  - b. Effective fillable porosity
  - c. Identify depth of surficial aquifer base (i.e. confining layer).
  - d. Identification of soils and groundwater levels and estimation of the Seasonal High Groundwater Table (SHGWT).

3. Provide design recommendations and considerations for potential baffle box structure.
4. Provide a geotechnical report summarizing the field and laboratory test results along with our geotechnical recommendations.

In order to meet the preceding objectives, we propose to provide the following services.

1. Review published soils and topographic information. This published information will be obtained from the appropriate Florida Quadrangle Map published by the United States Geological Survey (USGS) and the Soil Survey of Pinellas County, Florida, published by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS).
2. Execute a program of subsurface exploration consisting of the following:
  - a. Perform one (1) Standard Penetration Test (SPT) borings to a depth of 25 feet below grade at the proposed baffle box location.
  - b. Perform three (3) SPT borings to depths on the order of 20 feet below grade to identify soil types and estimate the SHGWT. Field permeability tests will be performed at each boring location along the alignment.
3. Visually classify the samples in the laboratory using the Unified Soil Classification System. Identify soil conditions at each boring location.
4. Prepare an engineering report which will summarize the course of study pursued, the field data generated, subsurface conditions encountered and our considerations to support the design.
5. Provide a final Sign and Sealed geotechnical report by a Professional Engineer.

### **Limitations/Basis of Proposal**

The geotechnical services herein are intended to broadly cover the project concept design. As the project and the design progress, additional geotechnical support may be required.

### **Service Fee**

It is proposed that the fee to perform the geotechnical services for the project is **\$13,215.32**. A breakdown of estimated fees is attached. We will immediately notify you should conditions impacting our scope, schedule, or cost of services occur. The proposal is based on the assumption that no hazardous materials exist on-site that would impact our investigation.

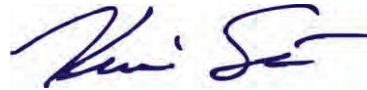
We appreciate the opportunity to offer our services to you. We look forward to working with you. Should you have any questions in regard to this proposal, please do not hesitate to contact this office.

Respectfully Submitted,

**TIERRA, INC.**



Daniel R. Ruel, P.E.  
Geotechnical Engineer



Kevin H. Scott, P.E.  
Senior Geotechnical Engineer

Attachment: Fee Schedule  
Project Site Map

Item Description	Unit	Unit Price	Quantity	Total
101-Aggregate Carbonates & Organic Matter FM 5-514	Test	\$ 157.00		\$ -
102-Aggregate Org. Impurities S& for Concrete AASHTO T21	Test	\$ 85.00		\$ -
103-Aggregate Shell Content of Coarse Aggregate FM 5-555	Test	\$ 118.00		\$ -
104-Aggregate Sieve Anlys of Fine & Coarse AASHTO T27	Test	\$ 90.00		\$ -
105-Aggregate Soundness AASHTO T104	Test	\$ 353.00		\$ -
106-Aggregate Specific Gravity/Absorption Coarse AASHTO T85	Test	\$ 110.00		\$ -
107-Aggregate Total Moisture Content by Drying AASHTO T255	Test	\$ 56.00		\$ -
108-Aggregate Unit Mass & Voids AASHTO T19	Test	\$ 59.00		\$ -
109-Aggregate Specific Gravity/Absorption Fine AASHTO T84	Test	\$ 131.00		\$ -
200-Asphalt Bulk Specific Gravity FM 1-T166	Test	\$ 68.00		\$ -
201-Asphalt Content FM 5-563	Test	\$ 159.00		\$ -
204-Asphalt Gradation FM 1-T030	Test	\$ 98.00		\$ -
206-Asphalt Los Angeles (LA) Abrasion Coarse Agg FM 3-C535	Test	\$ 408.00		\$ -
207-Asphalt Los Angeles (LA) Abrasion Small Agg FM 1-T096	Test	\$ 346.00		\$ -
209-Asphalt Pavement Coring – 4” dia with Base Depth Check	Each	\$ 258.00		\$ -
210-Asphalt Pavement Coring – 4” dia without Base Depth Check	Each	\$ 200.00		\$ -
211-Asphalt Pavement Coring – 6” dia with Base Depth Check	Each	\$ 292.00		\$ -
212-Asphalt Pavement Coring – 6” dia without Base Depth Check	Each	\$ 232.00		\$ -
300-Concrete Beam Flexural Testing ASTM C78	Test	\$ 63.00		\$ -
301-Concrete Compressive Strength of Grout/Mortar ASTM C109	Test	\$ 36.00		\$ -
302-Concrete Cylinder Curing, Capping & Breaking ASTM C39	Test	\$ 45.00		\$ -
303-Concrete Drilled Cores & Sawed Beams ASTM C42	Test	\$ 65.00		\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 239.00		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 268.00		\$ -
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 12.00		\$ -
402-Geo Auger Borings- Track	LF	\$ 17.00		\$ -
403-Geo Backhoe (Owned)	Day	\$ 1,300.00		\$ -
405-Geo Barge (Owned)	Day	\$ 4,073.00		\$ -
407-Geo Chainsaw (Owned)	Day	\$ 119.00		\$ -
415-Geo Double Ring Infiltration ASTM D3385	Each	\$ 620.00		\$ -
416-Geo Dozer (Owned)	Day	\$ 1,700.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 280.00	1	\$ 280.00
421-Geo Dynamic Pile Testing/Pile Driving Analyzer	Day	\$ 600.00		\$ -
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 110.00		\$ -
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 110.00		\$ -
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	\$ 125.00		\$ -
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	\$ 125.00		\$ -
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 110.00		\$ -
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 110.00		\$ -
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 125.00		\$ -
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 125.00		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 379.00	4	\$ 1,516.00
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 375.00		\$ -

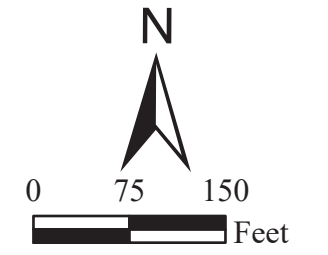
Item Description	Unit	Unit Price	Quantity	Total
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 9.00		\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 12.00		\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 18.00		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 26.00		\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 7.00	85	\$ 595.00
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 14.00		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 19.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 39.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 53.00		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 63.00		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 79.00		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 86.00		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 110.00		\$ -
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	\$ 49.00		\$ -
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	\$ 56.00		\$ -
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	\$ 64.00		\$ -
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 24.00		\$ -
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 33.00		\$ -
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	\$ 54.00		\$ -
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	\$ 71.00		\$ -
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 17.00	85	\$ 1,445.00
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 20.00		\$ -
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 33.00		\$ -
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 44.00		\$ -
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 15.00		\$ -
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 18.00		\$ -
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	\$ 22.00		\$ -
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	\$ 28.00		\$ -
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 11.00	40	\$ 440.00
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	\$ 15.00		\$ -
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	\$ 18.00		\$ -
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 23.00		\$ -
514-Geo Truck/Mud Bug Mobil (30 miles straightline distance)	Each	\$ 700.00		\$ -
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 231.00		\$ -
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 269.00		\$ -
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 310.00		\$ -
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 379.00		\$ -
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	\$ 210.00		\$ -
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	\$ 215.00		\$ -
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 241.00		\$ -
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 266.00		\$ -
525-Geo Well Development	Hour	\$ 192.00		\$ -
531-Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	\$ 252.00		\$ -
532-Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	\$ 320.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
533-Geo Track/Barge Drill Rig and Crew (2-person)	Hour	\$ 269.00		\$ -
534-Geo Track/Barge Drill Rig and Crew (3-person)	Hour	\$ 355.00		\$ -
535-Geo Clearing Equip- Tractor, Bush Hog Attachment	Day	\$ 1,523.00		\$ -
536-Geo Clearing Equip-Skid Steer/ASV, ForestMulching Attach	Day	\$ 2,195.00		\$ -
537-Geo Clearing Equip-Skid Steer/ASV, Brush Cutter Attach	Day	\$ 1,692.00		\$ -
538-Geo Clearing Equipment	Day	\$ 2,180.00		\$ -
539-Geo Wash Boring for Rock Cores 0-50 Ft	LF	\$ 13.00		\$ -
540-Geo Wash Boring for Rock Cores 50-100 Ft	LF	\$ 14.00		\$ -
541-Geo Wash Boring for Rock Cores 100-150 Ft	LF	\$ 23.00		\$ -
542-Geo Wash Boring for Rock Cores 150-200 Ft	LF	\$ 26.00		\$ -
602-Mobilization-Vibration Monitoring Equipment	Each	\$ 380.00		\$ -
603-Mobilization Asphalt Coring Equipment	Each	\$ 444.00		\$ -
606-Mobilization Concrete Coring	Each	\$ 434.00		\$ -
608 Mobilization Drill Rig Amphibious	Each	\$ 11,100.00		\$ -
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 11,125.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 580.00	1	\$ 580.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 1,170.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 625.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,658.00		\$ -
620-Mobilization of Clearing Equipment	Each	\$ 658.00		\$ -
701-MOT Attenuator Truck	Hour	\$ 271.00		\$ -
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 5.00		\$ -
706-MOT Portable Sign	Each	\$ 50.00	8	\$ 400.00
708-MOT Provide Channelizing Devices - Cone	Each	\$ 8.00	30	\$ 240.00
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 280.00		\$ -
712-MOT Support Vehicle	Hour	\$ 155.00	8	\$ 1,240.00
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 110.00		\$ -
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 595.00		\$ -
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Day	\$ 174.00		\$ -
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 305.00		\$ -
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 391.00		\$ -
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	\$ 410.00		\$ -
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 66.00	4	\$ 264.00
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 51.00	12	\$ 612.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 19.00	7	\$ 133.00
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 53.00	1	\$ 53.00
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 200.00		\$ -
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 84.00		\$ -
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 411.00		\$ -
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 341.00		\$ -
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 49.00		\$ -
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 71.00	4	\$ 284.00
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 143.00		\$ -
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 143.00		\$ -
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 65.00		\$ -
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 168.00		\$ -
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 71.00		\$ -
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 210.00		\$ -
Arsenic (Method 6010/7471)	Each	\$ 9.00		\$ -
Asbestos Samples	Each	\$ 15.00		\$ -
BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
Drilling Permit Costs IE DEP	Each	\$ 250.00		\$ -



**Geotech Needs:**

- assess soil and groundwater conditions in area
- sufficient borings in project area for soil conditions and groundwater table conditions
- need seasonal high groundwater conditions
- need vertical and horizontal permeability
- need effective (fillable) porosity
- need depth to surficial aquifer base
- construction recommendations associated with installation of baffle box structure
- construction recommendations associated with pavement, compaction, and excavation

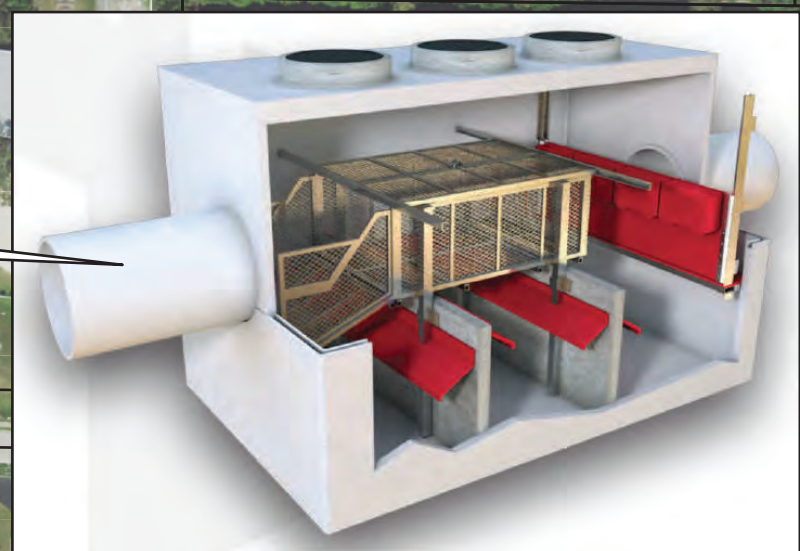


- Legend**
- Project Area
  - Parcels
  - Proposed
    - Inlet/Outlet
    - Manhole
    - Baffle Box
    - Pipe
  - Existing
    - Control Structure
    - Inlet/Outlet
    - Manhole

Sources:  
 Aerial: FDOT, 2023  
 Roads: Pinellas County, 2024  
 Parcels: Pinellas County, 2024  
 Drainage Infrastructure: Geosyntec, 2025

Figure 4-7

**Alternative 4  
 Proposed  
 Infrastructure Map**  
 Jan Cory Subdivision Stormwater Improvements



February 16, 2026

Karli Mahoney, EI  
Geosyntec Consultants, Inc.  
3504 Lake Lynda Drive, Suite 155  
Orlando, FL 32817  
[NHartshorn@Geosyntec.com](mailto:NHartshorn@Geosyntec.com)

## PROPOSAL FOR TOPOGRAPHIC & UTILITY SURVEY SERVICES

**Project: Pinellas Park Jan Cory Design, City of Pinellas Park, Pinellas County, FL**

Dear Ms. Mahoney:

At ECHO UES, Inc. (ECHO), we value your consideration and appreciate the opportunity to provide a technical proposal for the provision of professional services. This technical proposal, including our estimated fee, details the approach we consider the most suitable for this project.

**Project Synopsis:** Based on the information available to ECHO, we understand the project involves design and construction services for stormwater infrastructure improvements in Pinellas Park. ECHO's professional services were requested to provide topographic survey and subsurface utility engineering support.

**Project Limits:** Outlined in blue on the attached exhibit, and more specifically described as extending from right-of-way to right-of-way along all streets and extending to the middle of the ditch/creek on the south side of 86<sup>th</sup> Avenue.

### Project Scope

#### 1. Topographic and Utility Survey

- Set horizontal and vertical control.
- Collect aboveground, visible features and improvements.
- Collect utility information as identified per the steps noted below.
- Detail and survey gravity stormwater and sanitary systems.
- Collect sufficient elevation data to create a digital terrain model (DTM) of the site.
- Survey individual trees that are 4" and larger as measured at chest height.
- The survey will be based on the North American Datum of 1983, 2011 Adjustment (NAD83/2011), Florida State Plane Coordinate System, West Zone.
- Elevations will be referenced to the North American Vertical Datum 1988 (NAVD 88).
- Recover and tie down sufficient monumentation in the field to calculate the existing apparent R/W lines.

## 2. Property Line and Easement Calculation

- Calculate existing right-of-way, property lines, and easements that are publicly available through the Pinellas County Property Appraiser's website.
- This estimate does not include preparing title searches for the parcels.

## 3. Subsurface Utility Engineering Services: Using a combination of field investigative techniques and technologies, including surface geophysical instruments and ground-penetrating radar (GPR), ECHO will perform the following services.

- **Identification and marking of existing utilities.** Utilities within the project limits will be investigated to determine their horizontal positions. The results will be marked on the ground surface using the most appropriate method (e.g., pin flags or paint) and will indicate the approximate positions of the identified utilities.

***ECHO will attempt to identify and mark detectable utilities within the project limits, excluding irrigation lines, service lines, and sewer laterals.***

- **Verification of utility location and characteristics.** At specific locations, ECHO will attempt to expose utilities using minimally intrusive methods (e.g., vacuum excavation) to confirm their characteristics (e.g., type, size, material, direction, configuration) and provide an accurate location. At completion of each excavation (test hole), ECHO will record all verifiable utility information, mark the utility location with the most appropriate method (e.g., wooden lathes, "X" mark on concrete, nail, and disk on asphalt), and restore the field to as close to its original conditions as possible.

***This proposal includes up to ten (10) test holes to confirm the horizontal alignment and depth of existing target utilities within the project limits.***

All survey efforts will be conducted in accordance with the Standards of Practice set forth in Rule Chapter 5J-17, F.A.C., pursuant to Section 472.027, F.S.

### **Deliverables:**

- Field deliverables will consist of field marks (e.g., pin flags, paint marks, wooden lathes, nails/discs, etc.) showing the position of the designated and located utilities.
- Office deliverables will consist of a digital CADD file and a certified PDF of the survey on 11x17 sheets at a scale appropriate to best fit the sheets.

**Proposed Schedule:** To be discussed and agreed upon with the client following acceptance of this proposal.

### **Notes and Limitations:**

1. The client shall facilitate access to the site and provide any relevant project information.
2. The site must be clear of obstacles impeding access to any portion of the project limits.
3. Standard work hours are from 7:00 am to 4:00 pm, Monday through Friday; additional charges may occur (following discussion with the Client) in case of weekend or nighttime work.
4. ECHO will not work on any site that is known to be contaminated with any hazardous or harmful substance.

5. FDOT Design Standards (Index 600 Series) will be utilized for the Maintenance of Traffic (MOT). Should the site require modification to the Index 600 for non-standard MOT arrangements, ECHO will seek the Client's concurrence to obtain signed and sealed project's specific MOT plans (to be provided by others).
6. Unless otherwise stated within this proposal, test holes have a standard depth of up to eight (8) feet from the ground surface, and a diameter of up to one (1) foot. Should deeper or wider excavations be required, additional charges may apply.
7. The original ground surface at each test hole location will be restored as close as possible to its original conditions, using concrete mix or asphalt cold patch as applicable. Any deviation from this standard (e.g., use of hot asphalt, flowable fill, etc.) may require additional charges and the use of specialty subcontractors.
8. Regardless of the type of estimate proposed (e.g., lump sum, time, and materials, etc.), such an estimate should be considered indicative and based on preliminary information. Should any situation out of ECHO's control heavily impact ECHO's field work performance (e.g., adverse site conditions), ECHO reserves the right to seek additional funds to complete the work.
9. The exact location of any underground utility is not guaranteed unless clearly exposed and visually verified at a specific location. Utility characteristics, installation methods, soil conditions, and the surrounding environment can all adversely affect the results of any utility investigation using surface geophysical instruments. No guarantee is made that all utilities will be found and identified.
10. Subsurface Utility Engineering, Designating and Locating terms all refer to the American Society of Civil Engineers / Construction Institute Standard for the Collection and Depiction of Subsurface Utility Data (ASCE/CI 38-02). Should ECHO adopt this standard for the performance of the scope of work and the preparation of deliverables, a clear reference to the Standard shall be included throughout the deliverables.

**Fee:** ECHO's competitive offer, which is inclusive of all field, office, materials, supplies, and equipment costs, is **\$38,450.76 (lump sum)**.

**Acceptance:** We will honor this proposal for 60 days. If accepted, please return this to our attention along with a professional services agreement, a task work order authorization, and an official Notice to Proceed.

At ECHO UES, Inc., we believe in collaborating with our clients and are driven to understand their needs and deliver time- and cost-efficient solutions. ECHO strives to provide high-quality and reliable data to design better, build faster, and safely enhance Engineering, Design, Construction and Maintenance of infrastructure.

Thank you for considering ECHO for this important project. Please do not hesitate to contact me directly if you have any questions or concerns.

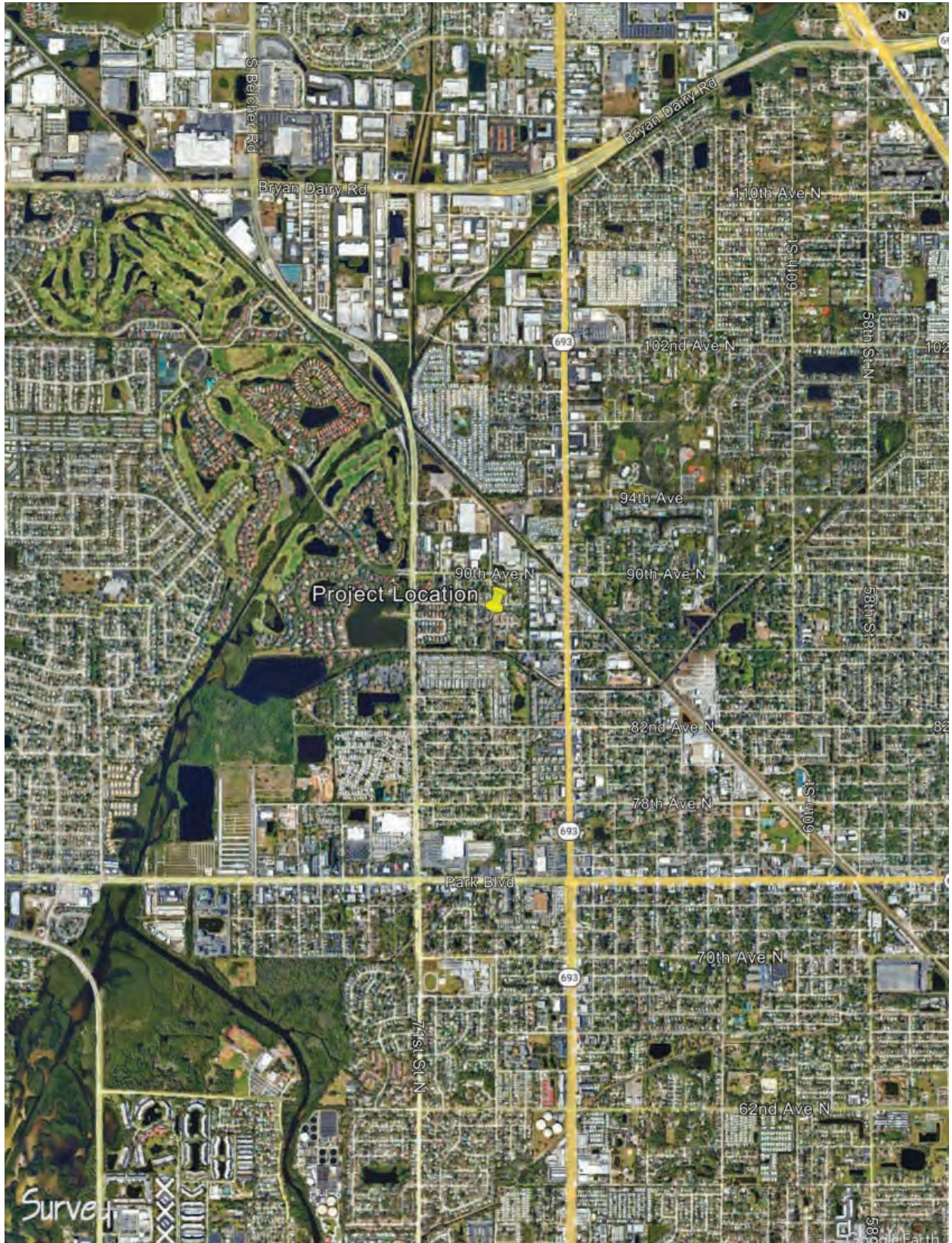
Sincerely,

**ECHO UES, Inc.**



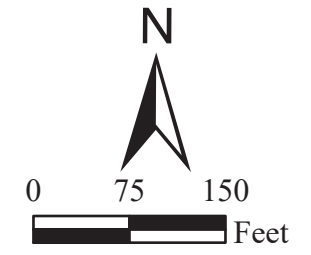
Mike Patterson, PSM  
Senior Vice President

# Vicinity Map



Survey Needs:

- collect detailed design level topographic survey data for area outlined in blue
- Collect all drainage infrastructure
- collect all property lines and easements
- collect geotechnical boring locations
- include budget allowance for 10 utility test holes within area outlined in blue
- SP FL West NAD83, NAVD88, Civil3D.dwg deliverable with surface. 11 x 17 signed and sealed PDF deliverable
- Set Vertical and Horizontal control points



- Legend**
- Project Area
  - Parcels
  - Proposed
    - Inlet/Outlet
    - Manhole
    - Baffle Box
    - Pipe
  - Existing
    - Control Structure
    - Inlet/Outlet
    - Manhole

Sources:  
 Aerial: FDOT, 2023  
 Roads: Pinellas County, 2024  
 Parcels: Pinellas County, 2024  
 Drainage Infrastructure: Geosyntec, 2025

Figure 4-7

**Alternative 4  
 Proposed  
 Infrastructure Map**  
 Jan Cory Subdivision Stormwater Improvements

