

Consultant Services Authorization - Modification

Firm	Inwood Consulting Engineers
Master Agreement No.	17-44
CSA No. Modification No.	17-44-03 #4
Project Name	Road and Drainage Division – Dundee Area Sub-Station
Project Description	Site Development engineering & permitting services for a new Roads & Drainage Division Dundee Sub – Station Off of Ernie Caldwell BLVD, Davenport, FL
Project Exhibits and Attachments (Ex. C not required)	Exhibit “A” – Scope of Services Exhibit “B” – Fee Quotation Proposal Exhibit “D” – Subconsultant Fee Proposal Exhibit “E” – Project schedule
Duration: (Original) Additional days:	27 mons Upon Project Completion
Compensation (Original) Additional Compensation Mod #1: Additional Compensation Mod #2: Additional Compensation Mod #3: Additional Compensation Mod #4: Total Cost	Total : \$ 269,169.54 Total : \$ 37,649.00 Total : \$ 11,464.00 No Cost Impact – Time extension Total : \$ 94,904.00 Total Lump sum: \$ 413,186.54
Special Contract Conditions	None in Modification
Insurance Requirements	Same requirement as original
Liquidated Damages	Same as original
Budget Source/Availability	1497.540152101

IN WITNESS WHEREOF, the parties hereto have executed this CSA on this ____ day of _____, 20__.

Attest:
STACY M. BUTTERFIELD

POLK COUNTY, a Political Subdivision
of the State of Florida

By: _____
Deputy Clerk

By: _____
Rick Wilson - Chairman
Board of County Commissioners

Date Approved by Board: _____

Review as to form and legal sufficiency
N. G. Malar 12/9/24
County Attorney's Office Date

Attest:

B. M. Watters
Corporate Secretary

Inwood Consulting Engineers, Inc.
CONSULTANT COMPANY NAME

[Signature]
Authorized Corporate Officer

Steven Sommerfeldt / VP-Practice Director
[Printed Name and Title]

SEAL

Date: 12/6/24

Date: 12-9-24



An **ARDURRA** Company

August 1, 2024

PLK-001-03

Via Email: NabilElgeuidi@polk-county.net

Mr. Nabil Elgeuidi – Facilities Project Manager
Polk County
Facilities Management Division

**Re: Consultant Service Agreement Modification Request #4
Dundee Area Sub-Station Site Planning and Design Project
Polk County, Florida
Polk County Contract No. 17-044-03**

Dear Mr. Elgeuidi,

Inwood Consulting Engineers, Inc. (Inwood) is pleased to submit the following Consultant Service Agreement Modification (CSAM) request documents for your review and approval.

- Exhibit "A" (Scope of Work);
- Exhibit "B" (Fee Quotation Proposal);
- Exhibit "C" (Estimate of Reimbursable Costs); [NOT APPLICABLE, NOT INCLUDED]
- Exhibit "D" (Subconsultant Fee Proposals); and
- Exhibit "E" (Project Schedule).

Inwood appreciates the opportunity to provide our services on this project. If you have any questions regarding the enclosed documents, please contact us at 407-971-8850.

Very truly yours,

INWOOD CONSULTING ENGINEERS, INC.

Steve Sommerfeldt, P.E., CFM
Project Manager

Email: SSommerfeldt@inwoodinc.com

cc: Polk County:
Steven McMillan – Architectural Services Manager,
via email: SteveMcMillan@polk-county.net
Inwood Consulting Engineers:
Joshua Spence, PE, CFM, ENV-SP – Assistant Project Manager,
via email: JSpence@inwoodinc.com

TRANSPORTATION
WATER RESOURCES
PLANNING / PD&E
ECOLOGY
STRUCTURES
UTILITIES

3000 Dovera Drive
Suite 200
Oviedo, FL 32765

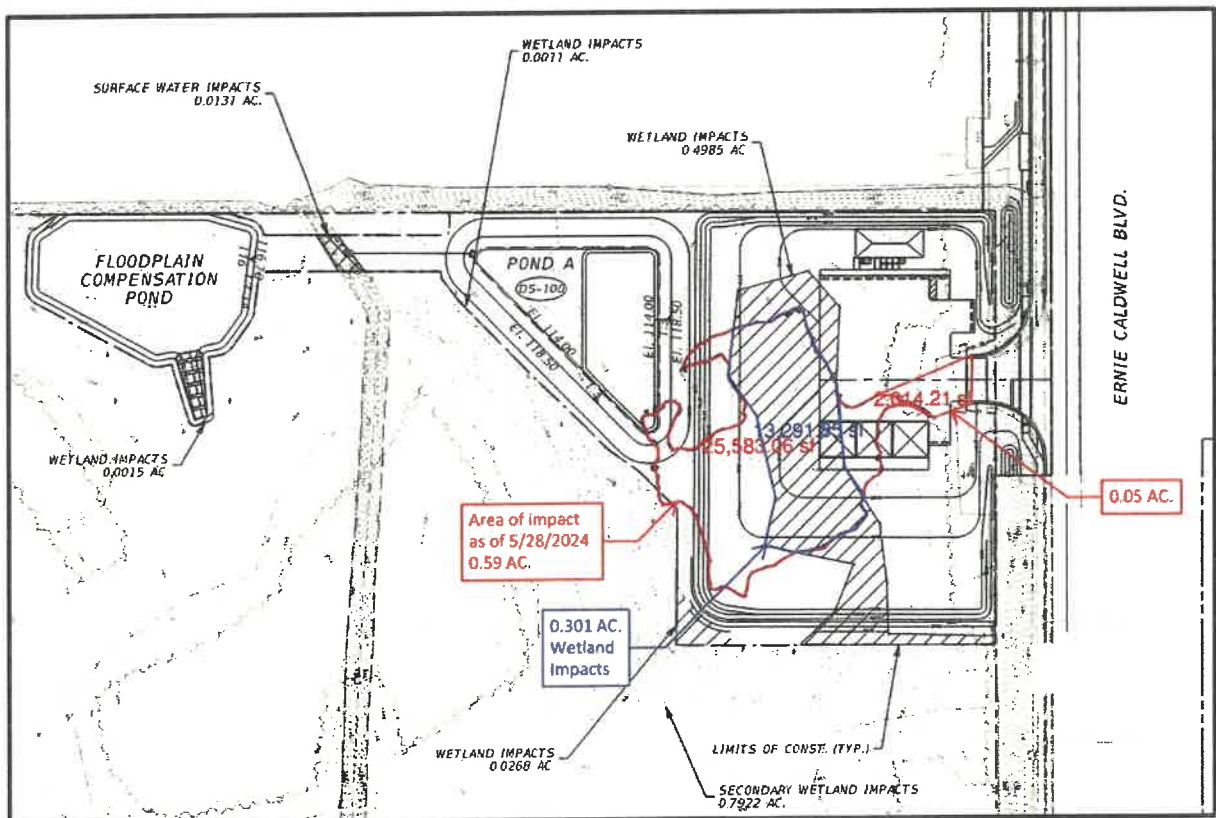
P: 407-971-8850
F: 407-971-8955
www.inwoodinc.com

EXHIBIT A – SCOPE OF WORK

Dundee Area Sub-Station Site Planning and Design Project

SUMMARY OF CONSULTANT SERVICE AGREEMENT MODIFICATION

Inwood (CONSULTANT) and subconsultants thereto is currently providing survey, engineering, and permitting services to Polk County (COUNTY) for the subject project under Contract No. 17-044-03. Following the original project contract execution and submittal of the Draft Construction documents, it was identified that the existing project site conditions had been altered by limited clearing and placement of fill. In order to properly account for the changed site conditions and permitting implications, supplemental survey, geotech, and engineering analysis will be required. In addition, the COUNTY has acquired an additional parcel ("East Parcel") to place a conservation easement over it for the purposes of offsetting onsite environmental impacts/mitigation costs. The CONSULTANT will need to evaluate the parcel and coordinate the conservation easement. These efforts were not included in the original scope of work, and therefore, a Consultant Service Agreement Modification is necessary. The efforts to complete these tasks are summarized below and within the attachments. Subconsultant services from GAI Consultants, Inc. (GAI), AIM Engineering & Surveying, Inc. (AIM), and Ardaman & Associates, Inc. (Ardaman) are required to complete the supplemental services.



Current design overlayed with the estimated area of limited clearing and fill impacts.

PROFESSIONAL CONSULTING SERVICES

The CONSULTANT proposed to perform the following scope of supplemental professional services:

2. FINAL DESIGN AND PERMITTING

- 2.1. Field Data Collection – A field visit will be performed to observe and verify the changed site conditions and any adverse impacts to sensitive environmental elements previously identified. E.g., wetlands, listed species, etc.
- 2.2. Coordinate with SWFWMD – Based on the observed impacts on the parcel, a meeting with the WMD will be coordinated to determine the next steps. This may include an additional site visit with the WMD staff.
- 2.3. Sand Skink Mitigation Planning – A sand skink survey was previously performed for the project in the Spring of 2022 that identified skink activity along the eastern portions of the project area. The use of that survey for regulatory purposes expired in May of 2024 (2-year shelf-life) but will be used to estimate and coordinate potential mitigation options and costs for the project. A new survey (not included in this scope of services) will need to be performed closer to construction to confirm skink locations and mitigation needs.
- 2.4. Conservation Easement – The COUNTY has acquired the Eastern Parcel adjacent to the project parcel for the purposes of placing a conservation easement over it to offset environmental mitigation costs for the project. The CONSULTANT will perform a field review of the Eastern Parcel and identify wetland limits and conditions. Once this data is collected, the CONSULTANT will initiate coordinating the conservation easement with the regulatory agency. It is assumed that COUNTY real estate management will draft the legal language for the conservation easement.
- 2.5. Design Plan Revisions – The CONSULTANT will update the design plans accordingly based on the observed changes to the site conditions (previous task). Changes are anticipated to be primarily associated with revised quantities.
- 2.6. Project Report—The project reports (drainage and ecological) will be updated to account for the changed site conditions, which will facilitate the permit applications.

4. PROJECT MANAGEMENT

- 4.1. Project Management and QA/QC Procedures – Project management tasks include supplemental project administration, subconsultant coordination, biweekly status meetings, and up to four (4) project meetings (upon the COUNTY'S request). All deliverables prepared and submitted by the CONSULTANT are subject to an internal QA/QC protocol. QA/QC tasks include review of subconsultant submittals, permit application review, mitigation plan review, and review of project design and plans preparation related to the revised plans.

SCHEDULE

The scope of work for the previous scoped services (including bidding services) and supplemental services is anticipated to be completed by March 2027. Please refer to the project schedule attached as Exhibit "E" for further details.

SUBCONSULTANT SERVICES

Included in the project will be the following supplemental subconsultant services:

- 1) **Topographical Survey and Utility Location Services** to support the above tasks will be provided by **AIM Engineering & Surveying, Inc. (AIM)**. Please refer to AIM's subconsultant fee proposal attached as Exhibit "D".
- 2) **Design Revision Support Services** to support the above tasks will be provided by **GAI Consultants, Inc. (GAI)**. Please refer to their subconsultant fee proposal attached as Exhibit "D".
- 3) **Geotechnical Engineering Services** to support the above tasks will be provided by subconsultant **Ardaman & Associates, Inc. (Ardaman)**. Please refer to their subconsultant fee proposals attached as Exhibit "D".

DELIVERABLES

Refer to the original scope of work dated January 21, 2021, and supplements thereto.

The CONSULTANT should note the following procedures to be adhered to during the contract.

1. Refer to the original scope of work dated January 21, 2021, and supplements thereto.

EXHIBIT B - ENGINEERING FEE PROPOSAL

Project Name: Dundee Area Sub-Station Site Planning and Design Project
 Name of Firm: Inwood Consulting Engineers, Inc.
 Date: 08/02/2024
 Contract: 17-044-03

Activity	Project Manager		Chief Engineer		Senior Project Engineer		Project Engineer		Engineer Intern		Chief Scientist		Scientist		Designer		Secretary/Clerical		Basic Activity Amount		Hours by Activity		Average Hourly Rate	
	Rate =	Hours	Rate =	Hours	Rate =	Hours	Rate =	Hours	Rate =	Hours	Rate =	Hours	Rate =	Hours	Rate =	Hours	Rate =	Hours	Activity Amount	Activity	Hours	Rate	Hourly Rate	Average Rate
PROFESSIONAL ENGINEERING TASKS																								
2 Final Design and Permitting																								
2.1 Field Data Collection	\$856.00	4	\$0.00	0	\$700.00	4	\$1,215.00	9	\$0.00	0	\$688.00	4	\$0.00	0	\$0.00	0	\$0.00	0	\$4,287.00		30	\$	\$	142.90
2.2 Coordinate with SWPMD	\$642.00	3	\$0.00	0	\$1,575.00	9	\$0.00	0	\$0.00	0	\$1,032.00	6	\$1,104.00	12	\$0.00	0	\$0.00	0	\$4,353.00		30	\$	\$	145.10
2.3 Sand Skink Mitigation Planning	\$428.00	2	\$0.00	0	\$700.00	4	\$0.00	0	\$0.00	0	\$1,376.00	8	\$1,104.00	12	\$0.00	0	\$0.00	0	\$3,608.00		26	\$	\$	138.77
2.4 Conservation Easement	\$856.00	4	\$0.00	0	\$350.00	2	\$0.00	0	\$0.00	0	\$2,752.00	16	\$0.00	0	\$688.00	8	\$0.00	0	\$4,646.00		30	\$	\$	154.87
2.5 Design Plan Revisions	\$856.00	4	\$0.00	0	\$2,800.00	16	\$0.00	40	\$736.00	8	\$688.00	4	\$184.00	2	\$0.00	0	\$0.00	0	\$10,664.00		74	\$	\$	144.11
2.6 Project Report Revisions	\$428.00	2	\$0.00	0	\$700.00	4	\$810.00	6	\$184.00	2	\$688.00	4	\$552.00	6	\$0.00	0	\$0.00	0	\$3,362.00		24	\$	\$	140.08
TASK SUBTOTAL	\$4,066.00	19	\$0.00	0	\$6,825.00	39	\$7,425.00	55	\$920.00	10	\$7,224.00	42	\$3,772.00	41	\$688.00	8	\$0.00	0	\$30,920.00		214	\$	\$	144.49
4 Project Management																								
4.1 Project Management & Quality Assurance and Control	\$8,560.00	40	\$2,652.00	12	\$2,800.00	16	\$1,980.00	8	\$0.00	0	\$1,376.00	8	\$0.00	0	\$0.00	0	\$0.00	4	\$16,756.00		88	\$	\$	190.41
TASK SUBTOTAL	\$8,560.00	40	\$2,652.00	12	\$2,800.00	16	\$1,980.00	8	\$0.00	0	\$1,376.00	8	\$0.00	0	\$0.00	0	\$0.00	4	\$16,756.00		88	\$	\$	190.41
TOTALS	\$12,626.00	59	\$2,652.00	12	\$9,625.00	55	\$9,505.00	63	\$920.00	10	\$8,600.00	50	\$3,772.00	41	\$688.00	8	\$0.00	4	\$47,676.00		302	\$	\$	157.87
Percent Breakdown	20%	20%	4%	4%	6%	18%	20%	21%	3%	3%	17%	18%	14%	8%	3%	1%	1%	100%		100%				

SUBCONSULTANT FEE COMPUTATIONS	
Name	Amount
(1) AIM (Topo & Boundary Survey)	\$ 18,928.00
(2) GAI (Design)	\$ 23,500.00
(3) Ardaman (Geotechnical Eng)	\$ 4,800.00
(4) (5)	\$ 0.00
(6)	\$ 0.00
(7)	\$ 0.00
(8)	\$ 0.00
Total Subconsultant Fees:	\$ 47,228.00

TOTAL LUMP SUM FEE COMPUTATIONS	
(1) Salary Cost (from above)	\$ 47,676.00
(2) Reimbursable Costs (Not Applicable)	\$ 0.00
(3) Subtotal Consultant's Fees [(1)+(2)]	\$ 47,676.00
(4) Subconsultant's Fees (from left)	\$ 47,228.00
Proposed Total Lump Sum Fee [(3)+(4)]	\$ 94,904.00



EXHIBIT D

SUBCONSULTANT FEE PROPOSALS

- 1. AIM Engineering & Surveying, Inc (AIM) – Surveying**
- 2. GAI Consultants, Inc. (GAI) – Site Design**
- 3. Ardaman & Associates, Inc. (Ardaman) – Geotechnical Engineering**



June 24, 2024

Steve Sommerfeldt, PE, CFM
Stormwater Team Leader
Ardurra
3000 Dovera Dr., Suite 200, Oviedo, FL 32765
407-971-8850
ssommerfeldt@ardurra.com

Dear Mr. Sommerfeldt,

RE: Dundee Satellite Maintenance Facility Survey (Polk Co.) Additional Survey

OBJECTIVE

Provide topographic survey update of the site

SCOPE OF SERVICE

- 1) Recover existing horizontal and vertical control and establish/re-establish as needed.
- 2) Perform Topographic Survey of the subject site as outlined in red on attached "Exhibit A", quantified at approximately .63 acres. Topographic survey of above-mentioned area to extend and overlap pre-fill survey for tie downs.
- 3) Perform boundary survey of 24.10 acre proposed conservation easement parcel #272615000000042030 shown in "Exhibit B". Perform hard copy submittal and electronic submittal of signed and sealed survey.
- 4) Perform survey collection of wetland delineation flagging and seasonal high water nails placed by others on parcel #272615000000042030. Information will be added to CAD product.
- 5) Perform title search from title company on parcel #272615000000042030 and review as part of boundary survey to identify possible encumbrances and easements.

DELIVERABLES:

Updated MicroStation (FDOT Standards) Topo and SUE files with a .tin file, including AutoCAD conversion with final deliverables. Signed and Sealed PDF or hard copy of boundary survey.

Dundee Satellite Maintenance Facility Survey (Polk Co.)

PROFESSIONAL FEES: \$18,928.00

STAFFHOUR BREAKDOWN:

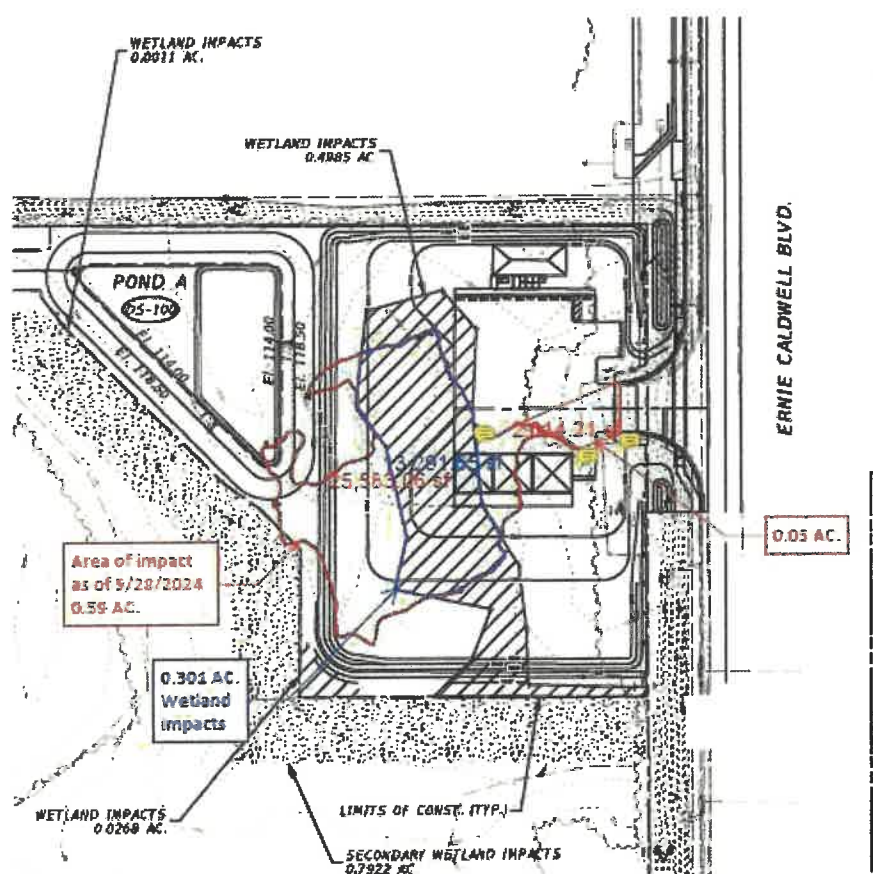
85 hours 3 Person Survey Crew, @\$155.00/Hour: \$13,175.00

65 Hours CAD Technician, @\$67.00/Hour: \$4,355.00

6 Hours, Professional Licensed Surveyor, @\$133.00/Hour: \$798.00

Title Search Report: \$600.00

Exhibit "A"



Dundee Satellite Maintenance Facility Survey (Polk Co.)

Exhibit "B"

Dundee Satellite Maintenance Facility Survey (Polk Co.)

CLOSING

Thank you for the opportunity to provide these Professional Survey Services. If there are any questions, please do not hesitate to contact the undersigned. We look forward to working with you now and in the future.

Sincerely,



Grant Fichter, PSM
Survey Manager, AIM Engineering & Surveying Inc.
239-872-2625
gfighter@aimengr.com



Orlando Office
618 East South Street
Suite 700
Orlando, Florida 32801

T 407.423.8398
F 407.843.1070

June 14, 2024

Project R200913.00

Mr. Steven Sommerfeldt, P.E. CFM
Associate Principal & Water Resources Group Manager
Inwood Consulting Engineers
3000 Dovera Drive, Suite 200
Oviedo, Florida 32765

**Proposal for Professional Services – Supplemental Agreement No. 2
Dundee Satellite Maintenance Office
Polk County, Florida**

Dear Mr. Sommerfeldt:

GAI Consultants, Inc. (GAI) is submitting this Supplemental Request to the original Agreement dated May 6, 2021, for Professional Engineering Services to Inwood Consulting Engineers (Client) for the above-referenced project. This proposal reflects the anticipated Scope and related costs for services to be provided based on our knowledge of the project.

Supplemental Understanding

The County has commenced site clearing, grading, and modifying the base condition for design/construction plans. GAI will assist the Client in revising the construction plans to reflect the site clearing and grading being performed and processing it through permitting. The design will include adjustments to demolition/SWPPP plans and verification of proposed grades.

Scope of Services

Based on our understanding of the project requirements/criteria provided to date by the Client, GAI will perform the following described Scope of Services:

Task 1 – Plan Revisions for Clearing and Grading

This task is for the scope of work to provide construction document revisions for the clearing and grading activities in progress on the site. The client will provide the survey update.

- 1.1 GAI will revise the plans to account for the clearing and grading activities being completed by the County. The following plan sheets are anticipated to be revised in project construction:
 - Summary of Pay Items
 - Demolition and Erosion Control Plan
 - Grading and Drainage Plan
 - Landscape Plan
- 1.2 GAI will provide to the Client for review and comment.
- 1.3 GAI will finalize the design and construction plans in preparation for permitting and construction.

Task 2 – Permitting

GAI will work with the Client to process the revised plans through the permitting agencies. This additional design does not anticipate changes to FDEP water/wastewater permits. This scope does not include

assistance or participation in obtaining US Army Corp of Engineers or other wetland-related permits. If GAI assistance is requested, an amendment will be provided for this work.

- 2.1 GAI will assist the Client in preparing and processing the revised plans through Polk County. GAI will respond to comments generated by the jurisdictional agency and communicate with other consultants to modify and provide RAI responses to the Client in a timely manner for submittal to Polk County.
- 2.2 GAI will assist the Client in preparing and processing the revised plans through the Southwest Florida Water Management District (SWFWMD). GAI will respond to comments generated by the jurisdictional agency and communicate with other consultants to timely modify and provide RAI responses to the Client for submittal to SWFWMD.

Schedule

GAI will begin upon receipt of a copy of this Supplement Proposal executed and authorized below. GAI will endeavor to complete its Scope of Services and deliver the project deliverable within a timeframe agreed to by the Client, subject to excused delay occasioned by factors beyond GAI's reasonable control.

Compensation

Compensation for services rendered by GAI will be on a lump sum and hourly basis in accordance with the rates agreed to and incorporated into the Agreement between GAI and the Client dated May 6, 2021. The hourly budgets are not meant to be all inclusive or exhaustive and are estimates that are highly dependent on the level of effort required and/or requested by the Client. As the budget is expended, the Client will be informed, and additional compensation will be requested to continue to perform services beyond the estimated budgets provided in Table 1 (Estimated Cost Summary).

Services Not Included

The proposed scope of services and cost(s) assume the following items are excluded from this scope of services:

- Gas, Telecommunication, Telephone, and Electric System Design (coordination of these efforts for civil related items only)
- Geotechnical Engineering (coordination of these efforts for civil related items only)
- Structural Engineering Design
- Public involvement coordination for notification of commencement of construction, flyers, and utility outage reports, traffic rerouting reports, etc.
- Electrical Engineering
- Traffic Impact Analysis / traffic study

Closing

Please do not hesitate to contact me at 321.319.3041 if you have any questions or wish to discuss this Proposal. If this Proposal is acceptable, please sign where indicated below and return one copy for our file. This also will serve as authorization for GAI to proceed. GAI's performance of the Scope of Services will be governed by the previously agreed to terms and conditions set forth in the Agreement between GAI and the Client dated May 6, 2021.

Sincerely,
GAI Consultants, Inc.

Aimee Shields, PE
Senior Engineering Manager

Tony Reddeck
Director of Engineering

AS:AR/snr/cl

Attachments: Table 1 – Estimated Cost Summary

REQUESTED AND AUTHORIZED BY:

Inwood Consulting Engineers

BY: _____

PRINTED NAME: _____

TITLE: _____

DATE: _____

Table 1
Estimated Cost Summary
Proposal
Dundee Satellite Maintenance Office
Polk County, Florida
Inwood Consulting Engineers

Task	Method of Payment	Total
1: Plan Revisions for Clearing and Grading	Lump Sum	\$17,000
2: Permitting	Lump Sum	\$6,500
Total		\$23,500



Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants

June 14, 2024

Proposal File No. 24-60-197

Reference File No. 21-6362

Ardurra
3000 Dovera Drive
Oviedo, Florida 32765

Attention: Mr. Steve Sommerfeldt, P.E.

Subject: Proposal for Additional Subsurface Soil Exploration
Dundee Satellite Maintenance Facility
Polk County, Florida

Dear Mr. Sommerfeldt:

As requested, we are pleased to present this proposal for conducting an additional subsurface soil exploration for the subject project. Based on information supplied by you, the project site has recently been cleared and filled within portions of the proposed development area.

The scope of our work will include exploring soil stratigraphy and groundwater levels at selected boring locations. The following summarizes our proposed scope of work and associated fees for conducting the subject exploration.

FIELD EXPLORATION

The field exploration program will include the following:

Description	Number of Borings	Depth Below Ground Surface (feet)
Filled Areas	6 SPT	10

The SPT borings will be drilled using a procedure similar to the Standard Penetration Test outlined in ASTM D-1586. The borings will be sampled at 18-inch intervals to 10 feet deep. Each sample will be removed from the sampler in the field and then examined and visually classified by our crew chief. Representative portions will be sealed and packaged for transportation to our laboratory for further analysis as required. Water level observations will be made in the boreholes during the drilling operation. Cone penetration test (CPT) soundings may be substituted for SPT borings.

LABORATORY PROGRAM

Routine laboratory visual classification will be performed along with specific classification tests deemed necessary (i.e., percent fines and organic content).

8008 S. Orange Avenue (32809), Post Office Box 593003, Orlando, Florida 32859-3003 Phone: (407) 855-3860 Fax: (407) 859-8121

Florida: Bartow, Cocoa, Fort Myers, Miami, Orlando, Port St. Lucie, Sarasota, Tallahassee, Tampa, West Palm Beach

Louisiana: Baton Rouge, New Orleans, Shreveport

Texas: Houston

ENGINEERING ANALYSIS AND REPORT

Engineering analysis of all data obtained will be made to describe general subsurface conditions. Information developed during the exploration will be provided in an undated version of our previously submitted written report upon conclusion of the study.

COST ESTIMATE

The costs associated with the aforementioned tasks are estimated as follows. The total cost will not be exceeded without prior authorization.

Site Reconnaissance, Stake Borings and Coordinate Utility Locations with Sunshine State One-Call by Project Engineer; 6 hours @ \$140.00/hour	\$840.00
Mobilize Drilling Crew and Equipment; 1 mobilization @ \$450.00/mob.	\$450.00
SPT Borings; 6 borings x 10 l.f., (0 - 50 l.f.) 60 l.f. @ \$16.00/l.f.	\$960.00
Moving between Boring Locations; 2 hours @ \$230.00/hour	\$460.00
Laboratory Classification Testing Allowance; estimate	\$275.00
Senior Engineer; 2 hours @ \$175.00/hour	\$350.00
Project Engineer; 8 hours @ \$140.00/hour	\$1,120.00
CADD Draftsperson; 3 hours @ \$77.00/hour	\$231.00
Technical Secretary; 2 hours @ \$57.00/hour	<u>\$114.00</u>
TOTAL	\$4,800.00

TERMS AND CONDITIONS

The total cost is based on the unit prices as shown on the attached fee schedule (see Attachment 1). This proposal is subject to the following terms and conditions: (1) access to boring locations is to be readily available to our truck-mounted drilling equipment (i.e. land clearing/mowing of paths will not be necessary), (2) the proposed number of borings and the boring depths will be adequate, (3) undisturbed samples and consolidation tests on fine grained soils are not budgeted into the total cost, (4) Ardaman & Associates will not take responsibility for



damages to underground structures and/or services that are not located by Sunshine State One-Call, (5) exploration or evaluation of the environmental (ecological or hazardous/toxic material related) condition of the site and subsurface is not included, and (6) this proposed exploration is a relatively shallow exploration and is not intended to be an evaluation for sinkhole potential.

CLOSURE

We appreciate the opportunity to submit this proposal and look forward to working with you on this project. If this proposal meets with your approval, please indicate your acceptance by signing and returning the attached Proposal/Project Acceptance sheet. Please call if you have any questions or require additional information.

Very truly yours,
ARDAMAN & ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read "C. T. Jewsbury", with a horizontal line underneath.

Colin T. Jewsbury, P.E.
Orlando Branch Manager

AGA/CTJ/lms

24-60-197 ADURRA - DUNDEE SATELLITE MAINTENANCE FACILITY, POLK COUNTY, FLORIDA.DOCX (2024pp)

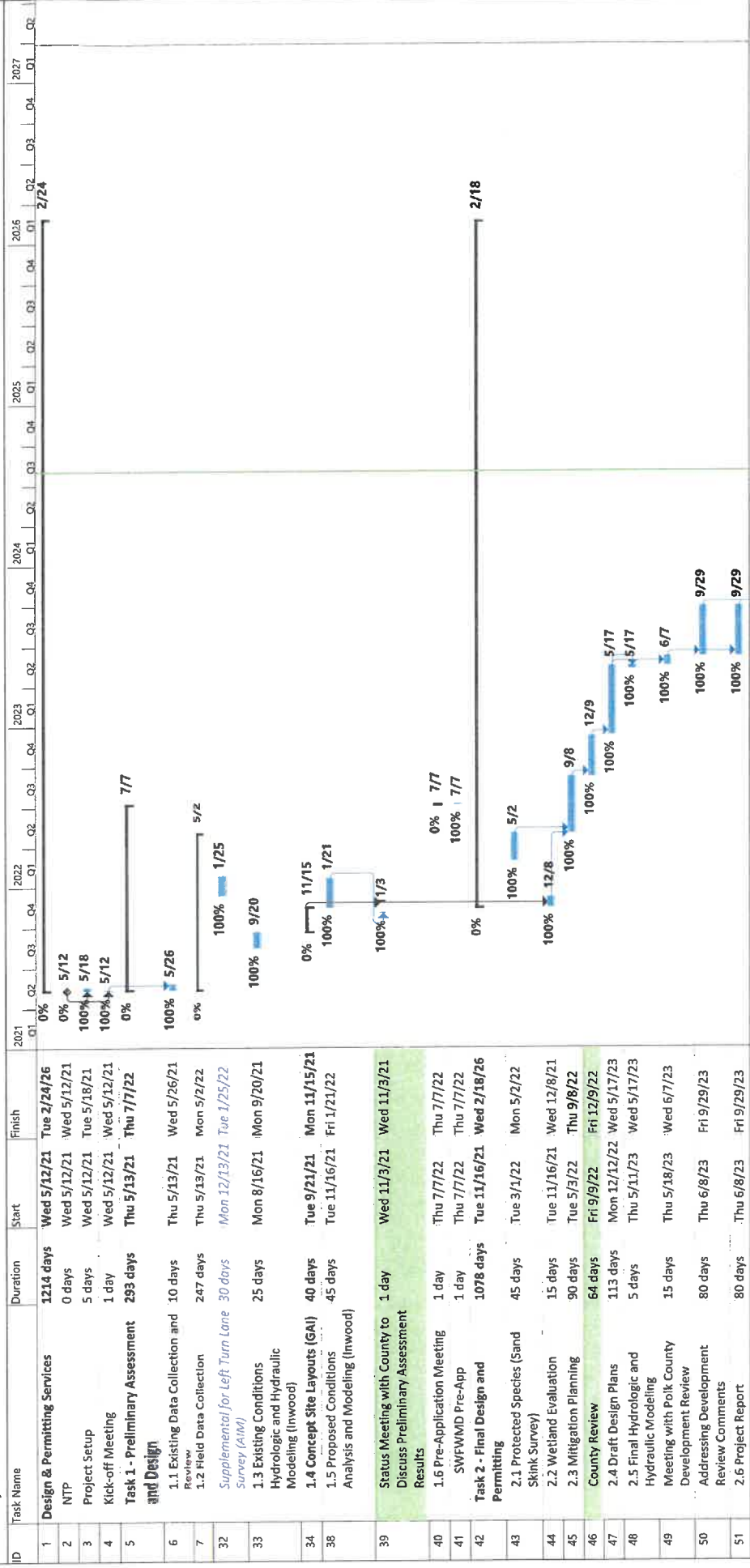


Ardaman & Associates, Inc.

Attachment 1

1.	Mobilization of Crew and Equipment	Varies
2.	Standard Penetration Test Borings:	
	(a) \$16.00/l.f. (0 - 50 ft. depth)	
	(b) \$19.00/l.f. (51 - 100 ft. depth)	
	(c) \$25.50/l.f. (100 - 150 ft. depth)	
3.	Auger Borings/Wash Borings	\$12.00/l.f.
4.	Install Temporary Casing	
	0 to 50 feet	\$10.90/l.f.
	50 to 100 feet	\$13.40/l.f.
5.	Undisturbed Samples (Shelby Tube)	\$190.00/each
6.	Grouting boreholes	\$4.60/l.f.
7.	Add 10% to Unit Rates for Drilling with Mudbug Equipment	
8.	Cone Penetration Tests	\$15.50/l.f.
9.	Muck Probes	Manhour Rates
10.	Groundwater Level Piezometer	\$28.00/l.f.
11.	Double Ring Infiltrometer Test	\$640.00/each
12.	Field Permeability	\$335.00/each
13.	Laboratory Testing:	
	(a) Incremental Consolidation Test	\$700.00/test
	(b) Atterberg Limits	\$122.00/set
	(c) Sieve Analysis	\$66.00/each
	(d) Percent Fines	\$39.00/each
	(e) Natural Moisture Content	\$15.40/each
	(f) Organic Content	\$36.00/each
	(g) Unit Weight/Classification of Undisturbed Sample	\$71.50/each
14.	Engineering Analysis and Report Preparation:	
	Principal Engineer (P.E.)	\$206.00/hour
	Senior Engineer (P.E.)	\$175.00/hour
	Senior Project Engineer (P.E.)	\$160.00/hour
	Project Engineer (P.E.)	\$140.00/hour
	Assistant Project Engineer	\$124.00/hour
	Staff Scientist	\$108.00/hour
	Engineering Assistant	\$99.00/hour
	Sr. Engineering Technician	\$80.00/hour
	Engineering Technician	\$67.00/hour
	CADD Draftsperson	\$77.00/hour
	Technical Secretary	\$57.00/hour
15.	Standby of drill crew and equipment for reasons beyond our control or difficult access	\$230.00/crew-hour

*Unit prices effective until December 31, 2020



Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

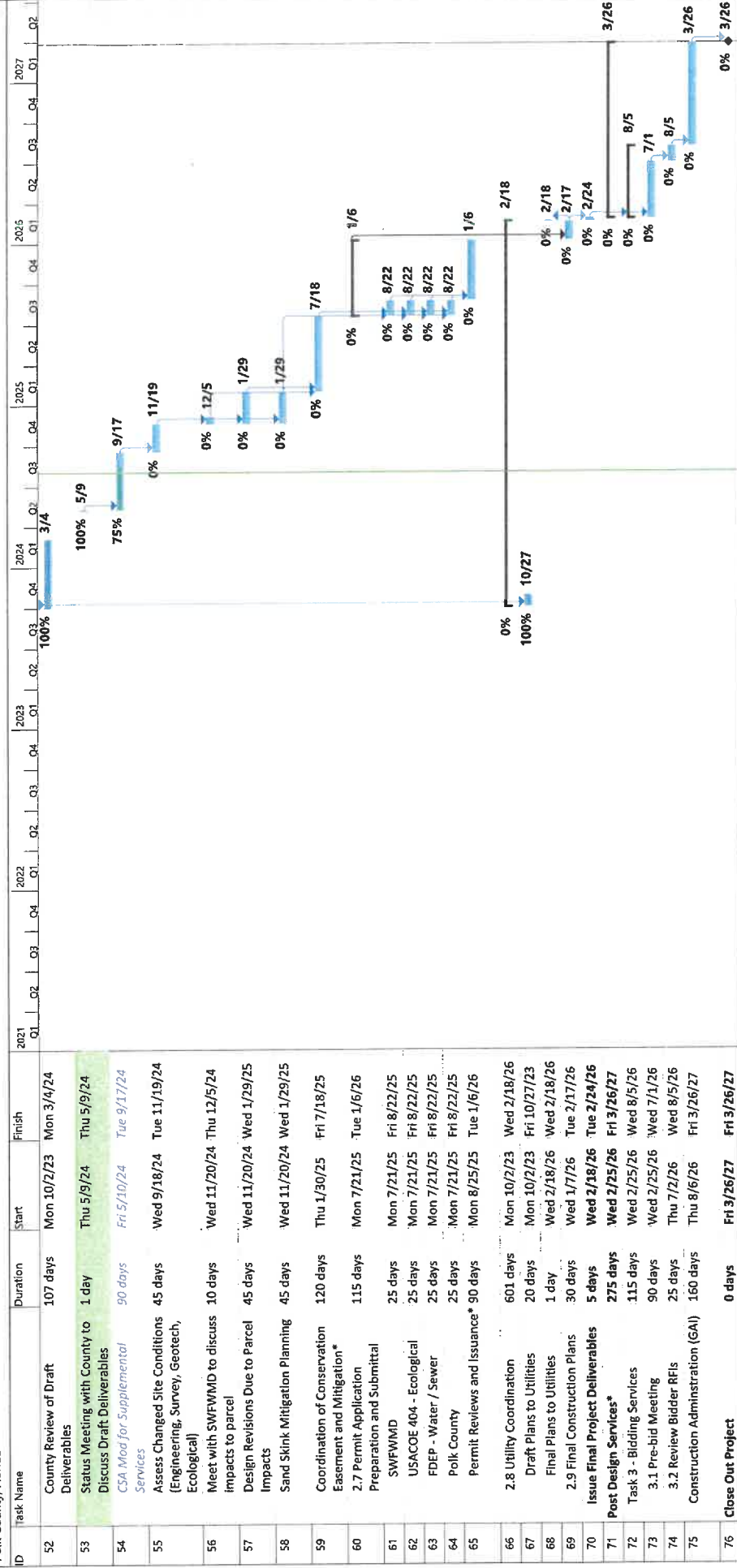
External Tasks

External Milestone

Deadline

Progress

Manual Progress



Task

Split

Milestone

Summary

Task Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

*Timeline is outside consultant's control.

