

VIA EMAIL girby@cityofedgewater.org

September 15th, 2023

Glenn Irby City Manager City of Edgewater 104 N. Riverside Drive Edgewater, FL 3213232751

RE: PROPOSAL/AGREEMENT FOR FIRE STATION #55 EMERGENCY TRAFFIC SIGNAL, EDGEWATER, FLORIDA, VOLUSIA COUNTY (AVO 044629.009)

Dear Mr. Irby:

Scope of Services – Halff Associates, Inc.

Introduction

Complete surveying and civil engineering services as required for the construction of an Emergency Traffic Signal at the location of Fire Station #55 along US 1. Additional ancillary single post signs will be implemented throughout the defined project for advance notifications along other subsequent roadways. This proposal assumes that the City of Edgewater will internally review, and that a formal application and subsequent permitting process will not be required by the City.

PHASE 100 ENVIRONMENTAL EVALUATION

- A. Conduct a comprehensive desktop review of existing government and other publicly available environmental databases to determine whether occurrences of State and/or Federal listed plant or animal species may occur or have been documented in areas with similar habitat within or immediately adjacent to the study area.
- B. Review the project area to map and assess the extent and condition of the onsite habitats. Each habitat type will be mapped using the Florida Land Use, Cover, and Forms Classification System (FLUCFCS: Florida Department of Transportation, 1999).
- C. Conduct meandering pedestrian transect surveys for listed species on the project site. All habitats within the project boundary will be surveyed in general accordance with the Florida Wildlife Conservation Guide (2011) as developed by the US Fish and Wildlife Service (USFWS), Florida Fish and Wildlife Conservation Commission (FWC), and Florida Natural Area Inventory (FNAI).
- D. Document the results of the site evaluation in a Natural Resources Evaluation (NRE) Environmental Technical Memorandum in accordance with PD&E Manual to support a Type 1, Categorical Exclusion to meet National Environmental Policy Act (NEPA) compliance.

FEE: \$8,500



PHASE 200 SITE INSPECTION

Halff will conduct a thorough site inspection of the US-1 and Fire Station #55 area, including the existing subsequent roadways and areas pertaining to the Emergency Routes. Inspection will allow engineering to identify possible factors in design and allow for better understanding of natural drainage patterns.

FEE: \$6,200.00

PHASE 300 EMERGENCY TRAFFIC SIGNAL ANALYSIS

This task includes basic planning and preliminary engineering efforts to prepare construction plans for the installation of Emergency Traffic Signals at two locations along US-1 in both directions of travel. Halff will review existing conditions and proposed geometry for the layout of the signalization design. To the extent allowable by site conditions, the analysis will be conducted using the 2023 FDOT Design Manual, Florida Greenbook, and the FDOT Standard Plans for Road Construction. This task includes the following services:

- A. Schematic Level Plans Based on the results of the signal location analysis and direction provided by CLIENT, Halff will produce Conceptual Construction Plans for review and approval by City of Edgewater Traffic Engineering. The Conceptual Construction Plans will be produced on 11"x17" sheets at a scale appropriate for the project. And a KMZ file provided for ease of review.
- B. Conceptual Opinion of Probable Cost (COPC) The CONSULTANT will provide a COPC based on the Conceptual Plans. The COPC will be based on general information and should only be considered preliminary and conceptual.

FEE: \$38,770.00

PHASE 400 TOPOGRAPHIC SURVEY

Prepare a Topographic Survey in accordance with 5J-17, Florida Administrative Code, according to the Standards of Practice for land surveying in the State of Florida for traffic signal design for City of Edgewater Fire Station #55, Volusia County, Florida. The right of way limits will be determined by available maps and adjacent recorded documents. Existing improvements including above ground evidence of utilities, delineated/flagged underground utilities marked by others, storm drainage structures, pavement, concrete, and visible equipment will be located and depicted on the survey. The survey limits are depicted below in Survey Exhibit "A" (areas shown in orange) and will extend approximately 50 feet in each direction. Scope will include spot elevations on a 25-foot grid to determine 1-foot contour intervals. Horizontal and vertical locations of soft digs performed by an underground locating firm will be located. Topographic Survey will also include a minimum of 2 SITE CONTROL POINTS/BENCHMARKS. Any additional requests or modifications will be subject to a change order.

FEE: \$16,100.00



SURVEY EXHIBIT "A"



Survey Deliverables

- 1. Civil 3D base file
- 2. Electronic Files (PDF & AutoCAD) will be released to the client/engineer within 12 months of the date of survey or until the contract is closed.

PHASE 500 SUBSURFACE UTILITY LOCATIONS

- A. Horizontal Locations: Provide technicians, equipment, and tools to designate the horizontal positions for but not limited to Sewer, Water, Gas, Fiber, and Telephone as outlined on map provided on 09/14/23 in front of 1602 S Ridgewood Ave, west right of way for 50ft and in front of 1701 S Ridgewood Ave, east right of way for 50ft.
- B. Vertical Verification/ Soft Dig: Soft dig two 5ft intersecting trenches 5ft deep at two pre-staked location to clear area for traffic pole installation. (Soft dig at two locations)

This estimate does not include lane closures, permits, or bonds.

Equipment and methods for finding/locating underground utilities and features are the industry recognized procedures. Although effective and reliable, there is the possibility that all utilities may not be located or field verified due to environmental or soil conditions, water table, excessive depth, feature makeup and/or equipment limitation.

Fee: \$8,860.00

PHASE 600 GEOTECHNICAL SURVEY

The scope of services of our geotechnical exploration for the proposed mast arm structures is planned to include the following:

• Perform a total of two (2) Standard Penetration Test (SPT) borings, each to a depth of 25 feet below the ground surface at the locations of the proposed two (2) mast arm pole structures.



- Perform corrosion series tests on two (2) soil samples, with one (1) soil sample collected from the location of each structure.
- Analyze the field and laboratory data to develop engineering recommendations for mast arm pole structure foundation design and site preparation.

The proposed scope of services will be supervised by a geotechnical engineer licensed in the state of Florida. The results of the exploration will be presented in a geotechnical report. This report will specifically address the following:

- Existing site condition.
- Exploration, testing, and sampling methods.
- Subsurface soil conditions encountered and soil classification.
- Depth to groundwater at the time of the exploration and estimated seasonal high groundwater table.
- Provide parameters for mast arm pole structure foundation design.
- Provide recommendations for the degree of corrosion protection required.
- Provide recommendations for site preparation.

FEE: \$5,330.00

PHASE 700 EMERGENCY SIGNAL TRAFFIC PLANS

Halff will produce Construction Plans on 11"x17" sheets at a scale appropriate for the construction of Emergency Traffic Signalization. The signalization will be designed in a .dgn file based on FDOT Standard Mast Arm Assemblies and standard foundations. If site or soil conditions prevent use of FDOT standard designs, structural analysis for a non-standard design will be required at an additional service. The plans will be provided to City of Edgewater and FDOT 60%, and Final design phases for review and comment. The plan set elements to be provided by the CONSULTANT include the following:

- o Cover Sheet
- Aerial Photograph
- Existing Conditions
- Traffic Signal plan sheets
- Utility plan (if adjustments are needed)
- Construction details plan
- Cross Sections
- Mast Arm Data Table
- Temporary Traffic Control Plan based on FDOT Standard Plans

FEE: \$6,880.00

PHASE 800 PERMITTING

A. FDOT OSP PERMITTING

Halff will prepare and submit the Emergency Traffic Signalization Plans to FDOT for the proposed Emergency Traffic Signal locations along US-1 that will be placed inside of the FDOT Right of Way.

B. ENVIRONMENTAL RESOURCE PERMITTING (ERP) EXEMPTION VERIFICATION



- Attend a virtual pre-application meeting with representatives of the SJRWMD to discuss the project and its environmental issues.
- Assist and coordinate with the Client in the preparation of drawings showing the proposed total plan of development, the proposed wetland impacts.
- Prepare wetland assessments and supporting environmental narrative for the project for the ERP Exemption Verification. This narrative will include assessments of the upland and wetland habitats and wetland impact areas.
- Respond to a maximum of one (1) request for additional information regarding the ERP application.

FEE: \$4,500.00

PHASE 900 PROJECT ADMINISTRATION

The scope of services shall include administrative services necessary to coordinate all aspects of the project through the planning, design and permitting phase. These services shall include project scheduling with all regulatory agencies and public utility companies during the design and permitting phase of the project.

FEE: \$5,000.00

PHASE 1000 UTILITY ADJUSTEMENT PLANS (IF NEEDED)

Halff will intended to design all Mast Arm and Emergency Traffic Signal equipment such that no utility adjustments are necessary. In the event of a Utility conflict that is unavoidable Halff will coordinate and develop Utility Adjustment plans for all impacted Utility locations at an additional fee.

FEE: \$4,800

PHASE 1100 LIMITED CONSTRUCTION ADMINISTRATION (IF NEEDED)

All necessary inspections, final certifications, and review of certified as-builts (as provided to Halff Associates, Inc. by a Florida Registered Surveyor), as required by permit conditions which consist of the following:

Halff Associates, Inc. will advise and consult with Owner and act as its representative during construction at the Owner's discretion. Halff will coordinate final inspection with City.

FEE: \$6,000.00 (BUDGET, NOT TO EXCEED, TO BE BILLED HOURLY)

TASK 9999 REIMBURSABLES

Costs for reimbursables, including printing, copying, blueprints, binding, etc., will be billed at cost.

FEE: \$2,100.00 (BUDGET)



SUMMARY FEE SCHEDULE

PHASE 100	\$8,500.00
PHASE 200	\$6,200.00
PHASE 300	\$38,770.00
PHASE 400	\$16,100.00
PHASE 500	\$8,860.00
PHASE 600	\$5,300.00
PHASE 700	\$6,880.00
PHASE 800	\$4,500.00
PHASE 900	\$5,000.00
PHASE 1000	\$4,800.00 (if needed)
PHASE 1100	\$6,000.00 (if needed)
PHASE 9999	\$2,100.00
TOTAL	\$113,010.00

THIS PROPOSAL DOES NOT INCLUDE THE FOLLOWING ITEMS:

- Boundary Survey
- Soil Boring Location and Elevation Survey
- Monumentation of Wetlands for Conservation Easement
- Platting
- Sketch and Descriptions for Conservation Easements
- Recording of Easements
- Offsite Right-of-Way survey for utilities
- Tree Survey
- As-built Survey
- Post-construction Improvement Survey
- Construction Staking
- Off-site Utilities Design
- Off-site Roadway or Transportation Improvements
- Pre/Post-development stormwater modeling
- Offsite Roadway Design, Access, and Right-of-Way Permitting Services
- Offsite Water and Sewer Extensions
- Offsite Infrastructure Capacity Studies/Assessments/Analysis/Designs
- Offsite Stormwater Design
- Revisions to the plans requested by the Client/Contractor/Landowner after the plans are approved unless necessitated by discrepancy in the plans



- Revisions to the plans due to scope changes, value engineering, budget overruns, or other reasons
- LEED Services
- Sign Design and Permitting
- Gas, Electric, Telephone, and/or Cable Design
- Boat Dock and Ramp Design/Permitting
- CADD Support for Environmentalist
- FEMA CLOMR
- FEMA Letter of Map Revision (LOMR)
- Flood Studies
- NPDES Permitting
- Bid Documents and Bidding
- Conditional Use Permit
- Earthwork Calculations
- Construction Administration and Progress Meetings During Construction
- Quality Control and Construction Material Testing Services
- Rezoning
- Land Use Changes
- Franchise Utility Coordination
- Conversion of AutoCAD Files to any other format
- Signing and Pavement Marking Plans
- Written Specifications
- Cost Estimating/Quantity Take-offs and/or Engineer's Opinion of Probable Construction Cost
- Subsurface Utility Engineering
- Environmental Assessment (Threatened and Endangered Assessment)/Biological Services
- Environmental Impact and Cultural Statements and Assessments, Jurisdictional Waters of the US Determination
- Architectural, Structural, Mechanical, Fire Protection, or Electrical Services
- Army Corp. of Engineers Dredge and Fill
- Florida Fish and Wildlife Conservation Commission Permit
- Wetland Flagging/Delineation
- Landscape/Irrigation Plans
- Hardscape, Walls, Entry Features
- Lighting/Photometric Design/Site Electrical Design
- Electrical Controls for Lift Stations
- Geotechnical Investigations
- Traffic Study/Impact Analysis
- Structural Design of Retaining Walls and Pond Walls
- Noise Study
- Advance of permit fees, impact fees, title search fees, recording or advertising fees (all fees by CLIENT)
- The above prices allow for up to two (2) response submittals for any request for additional information letters from referenced agencies. Any additional requests will be billed on an hourly basis based on the attached hourly rate schedule.