

IRC-1904

43rd Avenue Ped & Bike Improvements (6th Street - 12th Street)

ENGINEERING SERVICES WORK ORDER 25

This Work Order Number 25 is entered into as of this ____ day of _____, 2025, pursuant to that certain Continuing Contract Agreement, dated May 2, 2023, ("Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and Kimley-Horn & Associates, Inc. ("Consultant").

The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the mutually agreed upon lump sum or maximum amount not-to-exceed professional fee. Any additional costs must be approved in writing, and at a rate not to exceed the prices set forth in Exhibit B of the Agreement (Rate Schedule) for RFQ 2023015, made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit A (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT: KIMLEY-HORN & ASSOCIATES, INC.

By: _____

Name: Brian Good

Title: Senior Vice President

BOARD OF COUNTY COMMISSIONERS OF
INDIAN RIVER COUNTY:

By: _____

Deryl Loar, Chairman

BCC Approval Date: _____

By: _____

John A. Titkanich, Jr.
John A. Titkanich, Jr., County Administrator

Approved as to Form and Legal Sufficiency:

By: _____

Jennifer W. Shuler
Jennifer W. Shuler, County Attorney

Ryan L. Butler, Clerk of Court and Comptroller

Attest: _____

Deputy Clerk

(SEAL)

EXHIBIT A SCOPE OF WORK

The County desires to expand the existing pedestrian and bike lane networks and enhance their interconnectivity between communities. The County desires to design and permit 6-foot sidewalks and 6-foot paved buffered bike lanes along both sides of 43rd Avenue between 6th Street and 12th Street, approximately 4,000 linear feet. This project will connect to and expand the pedestrian and bike lane facilities currently under construction within the 43rd Avenue Pedestrian & Bicycle Improvements between 12th Street and 18th Street. In addition to the pedestrian and bike lane improvements, the County desires to include milling and resurfacing plans for 43rd Avenue within the project limits.

A. Topographic Design Survey:

The Consultant will provide topographic design survey services necessary to support and facilitate contemplated design and permitting activities associated with this project. This task will consist of the preparation of digital base map topographic surveys in accordance with the Standards of Practice, established by the Board of Professional Surveyors and Mappers, Chapter 5J-17, Florida Administrative Codes, pursuant to current Section 472.027, Florida Statutes, per 5J-17.050 through 5J-17.052. The survey will include:

The survey will include:

1. Establishment of a project wide Horizontal Control Network within the PROJECT LIMITS. A Design Survey Baseline will be established and monumented. A minimum of three Design Survey Baseline monuments will be installed.
2. Establishment of a project wide Vertical Control Network within the PROJECT LIMITS. All elevations will be referenced to NAVD 1988 datum.

The limits of the topographic design survey are as follows:

43rd Avenue - between 6th Street and 12th Street, approximately 4,000 linear feet.
Topographic survey shall extend no less than 15 feet beyond the right-of-way.

B. Geotechnical Investigation:

The Consultant will retain the services of a Geotechnical sub-consultant to assist in evaluating the existing soil and roadway pavement conditions. The Geotechnical sub-consultant will provide the following Geotechnical Services:

1. Field Exploration Program

- Six (6) pavement cores along the shoulder alternating sides
- Ten (10) 6-foot deep hand augers alternating side of the roadway

2. Engineering Analysis and Report

The Geotechnical Sub-Consultant Engineer shall perform analysis of all the data obtained to evaluate subsurface conditions and develop engineering recommendations to guide site preparation procedures and foundation support.

C. Construction Documents:

The Construction plan set shall consist of the following:

| PHASE SUBMITTALS | 60% | 90% | 100% |
|--|-----|-----|------|
| Cover Sheet (Location map, Project Length, Engineer of Record) | C | F | F |
| General Notes | C | C | F |
| Summary of Pay Items/Quantities | P | C | F |
| Horizontal and Vertical Control Sheets (Benchmarks, Reference Points, Section Corners) | C | C | F |
| Details | P | C | F |
| Plan Sheets (40 scale) | C | C | F |
| Cross Sections at approximately 100 ft intervals, extending 10' beyond proposed right-of-way (1"=5' Vertically, 1"=20' Horizontally) | C | C | F |
| Signage & Pavement Marking Plans (40 scale) Included in Plan Sheets | P | C | F |
| Construction Cost Estimate and Quantities | C | C | F |

Notes: P – Preliminary, C – Complete, but subject to change, F - Final

General Construction Plan Requirements:

- Plans shall be prepared on 11" x 17" sheets.
- Each phase submittal shall include drawings in PDF format.
- Plan sheets shall depict existing right-of-way, section lines, property lines, and centerline of construction. Horizontal control points with state plane coordinates for all PC's, PT's, curve radius, curve length and horizontal PI's shall

be included on the Plan or summarized in an alignment table.

5. Plans shall include spot grades adequate to describe any proposed grading. Spot grades will be provided to delineate ADA regulation compliance.
6. Match lines shall not be located within the limits of an intersection.
7. All quantities shall reference FDOT Pay Item Numbers.
8. All details shall reference FDOT Index Numbers.
9. All specifications shall reference to FDOT Specifications for Road and Bridge Construction. Any deviations are special specifications not included in FDOT Specifications are required in the Technical Specifications.
10. Preliminary (60% completion), interim (90% completion) and Final Plan (100% completion) Submittal shall include the following:
 - i. One (1) set of drawings in PDF format.
 - ii. One (1) Opinion of Probable Construction Cost

The plans will be prepared based upon English units. Final design files will be submitted in AutoCAD format.

D. Signing and Pavement Marking Plans:

Signing and Pavement Markings will be included within the Roadway Plan set. Quantities will be provided in the Summary of Pay Items sheet. All signing and pavement markings are to be prepared in accordance with the latest design standards and practices (MUTCD), FDOT Standard Specifications, Indexes, and shall be accurate, legible, and complete in design.

E. Type I Categorical Exclusion:

The Consultant will attend one (1) kickoff meeting with the County to discuss the project details. The Consultant will review readily available GIS databases to determine listed species known in the area or those species that could potentially occur within the project corridor or immediate vicinity. This will also include a review of the existing land use/land cover as mapped by the St Johns River Water Management District (SJRWMD) and the existing soil survey. The Consultant will also request information from the Florida Natural Areas Inventory (FNAI) and the US Fish and Wildlife Service (USFWS) IPaC Trust Resources Report. Lastly, the Florida Department of Environmental Protection (FDEP) OCULUS database will be researched for existing contamination data within and adjacent to the project corridor. Following this desktop review, the Consultant will conduct field reconnaissance to review the project corridor. Representative photographs will be taken, and a photographic log will be prepared.

The Consultant will complete a Type I Categorical Exclusion checklist along with the

environmental support document and accompanying maps. The maps prepared will include a location map, US Geological Survey (USGS) Topographic map, Natural Resources Conservation Service (NRCS) soils map, land use/land cover map, Federal Emergency Management Agency (FEMA) flood zone map, and a listed species map, if applicable. Upon approval from the County, the project will be entered into the Statewide Environmental Project Tracker (SWEPT).

F. Cultural Resource Assessment Survey:

These services will be conducted in compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, Chapter 267 of the Florida Statutes (F.S.), Chapter 1A-46 (Archaeological and Historical Report Standards and Guidelines), Florida Administrative Code (FAC), the conditions and specifications in the Florida Division of Historical Resources (FDHR) Module 3: Guidelines for Use by Historic Preservation Professionals (2003), and the FDHR June 2022 CRAS Sufficiency Checklist. The Principal Investigator will meet the Secretary of the Interior's Professional Qualification Standards (48 FR 44716) for archaeology, history, architecture, architectural history, or historic architecture.

Archival Research

Background research will include a review and analysis of the Florida Master Site File (FMSF) data to identify previous surveys and previously recorded resources within the project area and vicinity. An analysis of available historic and modern aerial photographs, historic General Land Office (GLO) plat maps and associated surveyors' notes, United States Geological Survey (USGS) 7.5-minute topographical maps, historic soil surveys, and pertinent environmental variables will also be conducted. This analysis will be used to reconstruct past land use and assess the potential for archaeological sites and historic resource within the project areas. Precolumbian period and historic period contexts will also be reviewed and developed to provide a framework within which the archaeological and historical records can be understood. A summary of the project area's archaeological and historic contexts and pertinent environmental features will be prepared from the results of the archival research. This information will inform the survey strategy and provide the context in which the significance of any resources identified during the project can be evaluated.

Cultural Resource Assessment Survey

The CRAS will include a survey to identify both archaeological sites and historic resources. Based on the proposed improvements, the area of potential effect (APE) will be narrowly defined and only resources directly within the APE will be documented.

Archaeological Survey

The archaeological survey will include a reconnaissance level survey to document existing conditions and determine where archaeological subsurface testing is feasible. Any area where archaeological subsurface testing is possible will be marked and coordination with the Sunshine 811 Call Center will be conducted to locate any underground utilities. Areas where excavation is not possible will be documented with field notes and photographs. Subsurface tests will be .5 m

(20 inches) in diameter and dug to a minimum depth, subsurface conditions permitting, of one meter (3.3 feet). All excavated soils will be sifted through 6.4 mm (¼ inch) metal hardware cloth screen suspended from portable wooden frames. Any cultural materials recovered will be stored in plastic bags with all provenience data recorded. Field notes on each test performed will be recorded, and the location of all tests will be clearly marked on aerial photographs of the project area. A Florida Master Site File form will be completed for any archaeological site identified during the survey.

Historic Resources Survey

A historic structures survey will be conducted to ensure that historic resources constructed in 1974 or earlier are identified and documented. Resources directly within the APE will be identified and documented on Florida Master Site File forms (FMSF). Photographs will be taken and a log kept recording the resource's physical location and compass direction of each photograph. Each resource's individual significance will then be evaluated for its potential eligibility for listing in the National Register of Historic Places (National Register). Historic physical integrity will be determined from site observations, field data, and photographic documentation.

Documentation and Report Preparation

A draft report presenting the methods, findings, evaluations, and recommendations of the cultural resource assessment will be prepared and submitted to Kimley-Horn for review and comment. The draft report will be submitted electronically. Any comments will be incorporated into the final report. The Consultant will prepare and submit the final report and associated documentation to the Florida State Historic Preservation Officer (SHPO)/FDHR.

G. Jurisdictional Permitting:

The Consultant shall prepare jurisdictional permit applications necessary to support the proposed improvements. The following agencies are anticipated to require applications/review to facilitate the proposed improvements:

- Saint Johns River Water Management District (SJRWMD) – Environmental Resource General Permit
- Indian River Farms Water Control District (IRFWCD) – Connection Permit
- Florida Department of Transportation (FDOT) – State Electronic Review Comment (ERC) system

The Consultant has included \$2,500 as a reimbursable expense to address SJRWMD and IRFWCD application fees. The County will be responsible for any mitigation bank costs necessary to mitigate potential environmental impacts, if necessary.

FEE SCHEDULE

The COUNTY agrees to pay and the Consultant agrees to accept for services rendered pursuant to this Agreement fees inclusive of expenses in accordance with the following:

A. Professional Services Fee

The basic compensation mutually agreed upon by the Consultant and the COUNTY is as follows:

Lump Sum Components

| <u>Task</u> | <u>Labor Fee</u> |
|-------------------------------------|------------------|
| Topographic Design Survey | \$ 25,750 |
| Geotechnical Investigation | \$ 7,300 |
| Construction Documents | \$ 142,505 |
| Signing and Pavement Marking Plans | \$ 16,910 |
| Type I Categorical Exclusion | \$ 8,580 |
| Cultural Resource Assessment Survey | \$ 22,213 |
| Jurisdictional Permitting | \$ 55,310 |

Project Total = \$ 278,568

TIME SCHEDULE

Upon authorization to proceed by the COUNTY, final design documents are expected to take approximately twelve (12) months from the Notice to Proceed (NTP).

| | |
|---------------------|--------------------------|
| NTP | contingent upon approval |
| 60% Plan Submittal | 6 months following NTP |
| 90% Plan Submittal | 9 months following NTP |
| 100% Plan Submittal | 12 months following NTP |

September 3, 2025



Brian Good, P.E.
Senior Vice President
Kimley Horn
445 24th Street
Suite 200
Vero Beach, Florida 32960
(772) 791-4087

RE: Topographic Survey of 43rd Avenue, Vero Beach, Florida

In accordance with your request CivilSurf Design Group, Inc. is pleased to propose to provide a Topographic Survey for a portion of 43rd Avenue, Vero Beach, Florida.

The Limits of the Topographic Surveys are as follows:

- 1) The Northern limit is South edge of pavement of 43rd Avenue and 12th Street
- 2) The entire width of 43rd Avenue Right-of-Way and 10' East and West of the existing Right-of-Way
- 3) The Southern limit is the South Edge of pavement of 6th Street.

The Survey shall adhere to the Minimum Technical Standards as set forth by the Board of Surveyors and Mappers pursuant to Rule 5J-17 of the Florida Administrative Code.

Horizontal datum shall be based on the East Zone of the Florida State Plane Coordinate System.

- 1) Have 4 vertical control points for future construction. Vertical datum will be dependent on nearest vertical control to project.
- 2) Provide cross sections at 50' intervals
- 3) Locate all striping, culverts etc. within the project limits
- 4) Locate all trees 6" or greater
- 5) Spot elevations at 50' intervals including intermediate highs and lows

The Lump sum fee per for the Topographic Survey is \$25,750.00.

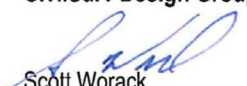
Shipping fees are not included.

Deliverables will include an AutoCAD drawing and points text file of the Topographic Survey as well as a PDF file.

Please feel free to contact me anytime if you have any questions. I anticipate this project to take six to eight weeks to complete.

Sincerely,
CivilSurf Design Group, Inc.

Accepted:


Scott Worack
Director of Surveying and Mapping
E-mail: sworack@civilsurf.com

Name:
Date:

www.CivilSurf.com
Small Business Enterprise





Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants

September 5, 2025
Proposal File No. 25-P-5721

Kimley-Horn
445 24th Street, Suite 200
Vero Beach, FL 32960

Attention: Mr. Brian Good, P.E.

**Subject: Proposal for Subsurface Exploration
43rd Avenue Pedestrian Improvements
6th Street to 12th Street
Vero Beach, Florida**

Dear Mr. Good:

Ardaman & Associates, Inc. is pleased to submit this proposal for performing a subsurface soil exploration and pavement cores for the above referenced project site. We understand that the project entails the design and construction of approximately 4,000 linear feet of concrete sidewalk along 43rd Avenue from 6th Street to 12th Street. The purpose of our field-testing program is to explore shallow soils and groundwater levels in the vicinity of the proposed sidewalk and to obtain thickness measurements of the existing pavement materials (asphalt, base material and stabilized subgrade) at the various locations on 43rd Avenue.

The following summarizes the proposed scope of work and associated fees for conducting the subject exploration.

FIELD EXPLORATION

Based provided information, our field exploration will be performed within existing residential roadways with heavy traffic volume. Therefore, maintenance of traffic (MOT) is necessary to perform the requested field exploration, and we have estimated one (1) day of MOT.

| Description | Number and Type of Borings | Depth Below Ground Surface (feet) |
|----------------------------------|---------------------------------------|--|
| Proposed Concrete Sidewalk Areas | 15 Augers | 6 |
| Existing Shoulders | 4 Pavement Cores | NA |

460 NW Concourse Place, Unit 1, Port St. Lucie, Florida 34986 Phone (772) 878-0072 Fax (772) 878-0097

Florida: Bartow, Cocoa, Fort Myers, Miami, Orlando, Port St. Lucie, Sarasota, Tallahassee, Tampa, West Palm Beach
Louisiana: Baton Rouge, New Orleans, Shreveport
Texas: Houston

The auger borings will be drilled in the green areas using a hand-held 3-inch diameter bucket auger. Each sample will be removed from the auger 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. It is noted that the hand augers may terminate at depths shallower than 6 feet if refusal to penetration and/or borehole collapse during drilling.

The asphalt cores will be performed on the shoulders using a portable coring machine equipped with a diamond-tipped core barrel. The locations of the cores will be selected by an Ardaman engineer based on site observations. The thicknesses of the asphalt, base material, and stabilized subgrade (if present) will be measured within the core holes and recorded by our field personnel. Representative samples will be sealed and packaged for transportation to our laboratory for further analysis as required. The core holes will be filled with cold-patch asphalt. We have assumed that one day of Maintenance of Traffic (MOT) will be required for the job.

LABORATORY TESTING

Routine laboratory visual classification will be performed along with specific classification tests deemed necessary (i.e., percent fines and organic content). We note that no asphalt content testing, extraction/gradation testing or Limerock Bearing Ratio (LBR) tests are being proposed at this time. All laboratory tests will be performed in general accordance with applicable ASTM standards.

ENGINEERING ANALYSIS AND REPORT

Engineering analysis of all data obtained will be made to evaluate general subsurface conditions and to develop engineering recommendations to guide site preparation within the proposed sidewalk area. We will also provide the pavement core results. Our recommendations, together with data developed during the exploration, will be submitted in a written report upon conclusion of the study.

COST ESTIMATE

The costs associated with the aforementioned tasks will not exceed below estimates without prior authorization from the client.

| | |
|---|-------------------|
| Subsurface Exploration | \$5,300.00 |
| Maintenance of Traffic (MOT) – 1 day @ \$2,000.00 | \$2,000.00 |
| Total | \$7,300.00 |

CLOSURE

This proposal is subject to the following conditions: (1) access to boring locations is to be readily available to our equipment and field personnel, (2) 1 day of MOT will suffice, (3) the proposed number of borings and the boring depths will be adequate, (4) undisturbed samples and consolidation tests on fine grained soils are not budgeted into the total cost, (5) Ardaman &

Associates will not take responsibility for damages to underground structures and/or services that are not located by Sunshine One-Call; their locations are to be provided by the client or owner prior to commencement of the field work, (6) exploration or evaluation of the environmental (ecological or hazardous/toxic material related) condition of the site and subsurface is not included, and (7) permits, including right of use and well, are not required.

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 Form. Please call if you have any questions or require additional information.

Very truly yours,

ARDAMAN & ASSOCIATES, INC.



Sharmila Pant, P.E.
Project Engineer



Virginia A. Goff, P.E.
Senior Project Engineer



**PROPOSAL FOR A CULTURAL RESOURCES ASSESSMENT SURVEY
OF THE 43RD AVENUE SIDEWALK AND BIKE LANE PROJECT FROM 6TH TO 12TH
STREETS IN INDIAN RIVER COUNTY**

Submitted to: Brian Good
Senior Vice President
Kimley-Horn
445 24th Street, Suite 200
Vero Beach, FL 32960
772-794-4083
Brian.Good@kimley-horn.com

Submitted by: Kathleen Hoffman
Janus Research/An Ardurra Company
1107 N. Ward Street
Tampa, FL 33607
813-636-8200
kate_hoffman@janus-research.com

Date: October 6, 2025

Janus Research is pleased to submit a proposal for conducting a Cultural Resource Assessment Survey (CRAS) for the 43RD Avenue Sidewalk and Bike Lane Project from 6th to 12 Streets in Indian River County, Florida. These services will be conducted in compliance with Section 106 of the *National Historic Preservation Act (NHPA)* of 1966, Chapter 267 of the *Florida Statutes (F.S.)*, Chapter 1A-46 (*Archaeological and Historical Report Standards and Guidelines*), *Florida Administrative Code (FAC)*, the conditions and specifications in the Florida Division of Historical Resources (FDHR) *Module 3: Guidelines for Use by Historic Preservation Professionals* (2003), and the FDHR June 2022 CRAS Sufficiency Checklist. The Principal Investigator will meet the Secretary of the Interior's Professional Qualification Standards (48 FR 44716) for archaeology, history, architecture, architectural history, or historic architecture.

Archival Research

Background research will include a review and analysis of the Florida Master Site File (FMSF) data to identify previous surveys and previously recorded resources within the project area and vicinity. An analysis of available historic and modern aerial photographs, historic General Land Office (GLO) plat maps and associated surveyors' notes, United States Geological Survey (USGS) 7.5-minute topographical maps, historic soil surveys, and pertinent environmental variables will also be conducted. This analysis will be used

to reconstruct past land use and assess the potential for archaeological sites and historic resource within the project areas. Precolumbian period and historic period contexts will also be reviewed and developed to provide a framework within which the archaeological and historical records can be understood. A summary of the project area's archaeological and historic contexts and pertinent environmental features will be prepared from the results of the archival research. This information will inform the survey strategy and provide the context in which the significance of any resources identified during the project can be evaluated.

Cultural Resource Assessment Survey

The CRAS will include a survey to identify both archaeological sites and historic resources. Based on the proposed improvements, the area of potential effect (APE) will be narrowly defined and only resources directly within the APE will be documented.

Archaeological Survey

The archaeological survey will include a reconnaissance level survey to document existing conditions and determine where archaeological subsurface testing is feasible. Any area where archaeological subsurface testing is possible will be marked and coordination with the Sunshine 811 Call Center will be conducted to locate any underground utilities. Areas where excavation is not possible will be documented with field notes and photographs.

Subsurface tests will be .5 m (20 inches) in diameter and dug to a minimum depth, subsurface conditions permitting, of one meter (3.3 feet). All excavated soils will be sifted through 6.4 mm (¼ inch) metal hardware cloth screen suspended from portable wooden frames. Any cultural materials recovered will be stored in plastic bags with all provenience data recorded. Field notes on each test performed will be recorded, and the location of all tests will be clearly marked on aerial photographs of the project area. A Florida Master Site File form will be completed for any archaeological site identified during the survey.

Historic Resources Survey

A historic structures survey will be conducted to ensure that historic resources constructed in 1977 or earlier are identified and documented. Resources directly within the APE will be identified and documented on Florida Master Site File forms (FMSF). Photographs will be taken and a log kept recording the resource's physical location and compass direction of each photograph. Each resource's individual significance will then be evaluated for its potential eligibility for listing in the National Register of Historic Places (National Register). Historic physical integrity will be determined from site observations, field data, and photographic documentation.

Documentation and Report Preparation

A draft report presenting the methods, findings, evaluations, and recommendations of the cultural resource assessment will be prepared and submitted to Kimley-Horn for review and comment. The draft report will be submitted electronically. Any comments will be incorporated into the final report, which will also be submitted to Kimley-Horn electronically. If requested, Janus Research will prepare and submit the final report and associated documentation to the Florida State Historic Preservation Officer (SHPO)/FDHR.

JANUS RESEARCH**Cost Proposal**

**CRAS of the 43rd Avenue Sidewalk and Bike Lane Project
from 6th to 12th Streets in Indian River County**



October 17, 2025

| POSITION | HOURS | | RATE | | TOTAL |
|--------------------------------|-------|----|--------|-----------|------------------|
| Project Manager | 1 | \$ | 165.00 | \$ | 165.00 |
| Principal Investigator | 16 | \$ | 125.00 | \$ | 2,000.00 |
| Project Archaeologist | 72 | \$ | 125.00 | \$ | 9,000.00 |
| Chief Architectural Historian | 8 | \$ | 165.00 | \$ | 1,320.00 |
| Field Archaeologist | 24 | \$ | 80.00 | \$ | 1,920.00 |
| Senior Architectural Historian | 40 | \$ | 125.00 | \$ | 5,000.00 |
| Graphics Specialist | 6 | \$ | 147.00 | \$ | 882.00 |
| Clerical | 1 | \$ | 80.00 | \$ | 80.00 |
| Total Direct Labor | | | | \$ | 20,367.00 |

DIRECT EXPENSES

| | | |
|------------------------------|--------------------|--|
| Printing / Photocopies | 115.60 | |
| Project Supplies | 32.00 | |
| Per Diem | 480.00 | \$60/day (2 people x 4 days) |
| Lodging | 700.00 | \$ 175/night (2 people x 2 nights) |
| Mileage & Travel | 476.00 | 340 miles round trip @ \$0.70/mile x 2 trips |
| Express Mail | 42.00 | |
| Total Direct Expenses | \$ 1,845.60 | |

TOTAL LABOR & EXPENSES

\$ 22,212.60

Assumptions

This cost estimate represents the best estimate based on the results of a preliminary desktop review and the following assumptions:

1. Our basic services include a Cultural Resources Assessment Survey (CRAS) to identify archaeological sites and historic resources within the Area of Potential Effect, which is assumed to be within the 43rd Avenue ROW. The CRAS will be conducted in accordance with FDHR's Cultural Resource Management Standards and Operational Manual (February 2003). Requests for investigations that exceed FDHR standards and requirements will be subject to a supplemental scope of work and associated costs.

CRAS will be conducted in accordance with FDHR's Cultural Resource Management Standards and Operational Manual (February 2003). Requests for investigations that exceed FDHR standards and requirements will be subject to a supplemental scope of work and associated costs.

2. Background research to include review of Florida Master Site File (FMSF), historic maps, historical aerials, GLO field surveyors notes, soils, USGS topographic maps, local designations, development of archaeological probability and development of archaeological and historic contexts.

3. APE will be limited to footprint of improvements.

4. Per the Underground Facility Damage Prevention and Safety Act,* Chapter 556, Florida Statutes, coordination will be conducted with the Sunshine 811 Center to locate underground utilities prior to any archaeological subsurface testing

5. Archaeological Field Survey; 2 people / 3 days to include travel, Sunshine 811 white lining and utility locates coordination, subsurface testing, where feasible, documentation of existing conditions, preparation of field maps, and pre and post field briefing. Preliminary research suggests a low potential for archaeological sites. Subsurface tests will be in accordance with SHPO/FDHR standards for a maximum of 10 shovel tests.

6. No historic resources are anticipated.

7. CRAS Report will be in accordance with Chapter 1A-46 (Archaeological and Historical Report Standards and Guidelines), and the CRAS Sufficiency Checklist. A draft and final report will be prepared as well as a SHPO/FDHR submittal package (CD with electronic files, photographs, GIS shapefiles, hard copies of report, hard copies of survey log).

8. Please note that hours include one round of responses to SHPO/FDHR coordination and one rounds of revision to the report, excluding additional field time or research.

9. If human remains are identified, this scope includes the initial coordination with the State Archaeologist required by Chapter 872, F.S. Costs for additional investigation or coordination will be negotiated, as needed.

10. Costs for additional research or excavations deemed necessary to evaluate National Register of Historic Places (National Register) eligibility, Section 106 Determination of Effects for National Register-eligible resources, Section 106 consultation, or the development of a Memorandum of Agreement (MOA) are not included in this scope and will be negotiated later, if required.

Summary

Project Name

Task Summary

43rd Avenue Pedestrian & Bicycle Access Improvements - 6th Street to 12th Street

Manhours for project

| Task | Principle | Senior Professional | Registered Professional | Professional 1 | Designer | Support Staff | Remarks |
|--|-----------|---------------------|-------------------------|----------------|----------|---------------|---------|
| | \$300 | \$270 | \$210 | \$130 | \$165 | \$75 | |
| Design Analysis | 24 | 24 | 8 | 34 | 10 | 12 | |
| Construction Plans | 12 | 24 | 194 | 216 | 251 | 8 | |
| Drainge Design and Permitting | 4 | 40 | 100 | 140 | 40 | 32 | |
| Signing and Marking Plans | 10 | 4 | 32 | 20 | 24 | 0 | |
| Total Hours = | 50 | 92 | 334 | 410 | 325 | 52 | |
| Labor Fee = | \$15,000 | \$24,840 | \$70,140 | \$53,300 | \$53,625 | \$3,900 | |
| <div> <div>Sub-Total Fee =</div> <div>\$220,805</div> </div> <div> <div>Design Topo Fee =</div> <div>\$25,750 To be provided by the County</div> </div> <div> <div>Geotech Fee =</div> <div>\$7,300 To be provided by the County</div> </div> <div> <div>CRAS Fee =</div> <div>\$22,213</div> </div> <div> <div>Permit Fees =</div> <div>\$2,500</div> </div> <div> <div>Project Total Fee =</div> <div>\$278,568</div> </div> | | | | | | | |

Design Analysis

Activity: Design Analysis / Review

| Task | Principle | Senior Professional | Registered Professional | Professional 1 | Designer | Support Staff | Support Staff |
|-------------------------------|-----------|---------------------|-------------------------|----------------|----------|---------------|---|
| | | | | | | | |
| Contract File | 4 | | | | | 4 | |
| Cost Estimate | | 16 | | 16 | | | Cost est. conducted at 30%, 60%, 90% and 100% |
| Coordination | | | | | | | |
| IR County | 16 | | | | | 8 | Four review submittals to County |
| Field Review | | 8 | | 8 | | | Site Visits |
| Computation Book & Quantities | | | 8 | 10 | 10 | | |
| | | | | | | | |
| QC/QA | | | | | | | |
| Project Management | 4 | | | | | | |
| | | | | | | | |
| Subtotal | 24 | 24 | 8 | 34 | 10 | 12 | |

Construction Plans

Activity: Roadway Plans

| Task | Principle | Senior Professional | Registered Professional | Professional 1 | Designer | Support Staff | Clerical |
|--------------------------------|-----------|---------------------|-------------------------|----------------|----------|---------------|---|
| | | | | | | | |
| Cover Sheet | | | | 2 | 4 | | |
| General Notes Sheet | | | | 2 | 2 | | 1 sheet |
| Summary of Quantities Sheet | | | 2 | 4 | 12 | | 1 sheet |
| Horiz/Vert Control Sheet | | | 2 | 8 | | | |
| Typical Sections | | | | | | | |
| 43rd Avenue | | | 4 | 8 | 16 | | |
| Plan Sheets | | | | | | | |
| 43rd Avenue | | 14 | 108 | 68 | 81 | | 9 sheets @ 30 hrs/ sht |
| Cross Sections | | | | | | | |
| 43rd Avenue | | 6 | 48 | 30 | 36 | | 100 ft Sections (40) @ 3.0 hrs / x-sect |
| Erosion Control Plans | | | 6 | 14 | 20 | | 5 sheets @ 8 hrs / sht |
| Franchise Utility Coordination | | | 4 | 40 | 40 | 8 | |
| Miscellaneous Const. Details | | | 20 | 40 | 40 | | |
| QC/QA | 12 | | | | | | |
| Project Management | | 4 | | | | | |
| | | | | | | | |
| Subtotal | 12 | 24 | 194 | 216 | 251 | 8 | |

Activity: Drainage Design and Permitting

| Task | Principle | Senior Professional | Registered Professional | Professional 1 | Designer | Support Staff | Remarks |
|---|-----------|---------------------|-------------------------|----------------|----------|---------------|---------------|
| St Johns River Water Management District | | 8 | | 40 | | 4 | GP 62-330.447 |
| Indian River Farms Water Control District | | 8 | | 40 | | 4 | |
| Florida Department of Transportation | | 20 | 60 | 60 | | 12 | |
| Type I Categorical Exclusion | | | 40 | | 40 | 12 | |
| QC/QA | 4 | | | | | | |
| Project Management | | 4 | | | | | |
| Subtotal | 4 | 40 | 100 | 140 | 40 | 32 | |

Activity: Signing and Marking Plans

| Task | Principle | Senior Professional | Registered Professional | Professional 1 | Designer | Support Staff | Remarks |
|---------------------------|-----------|---------------------|-------------------------|----------------|----------|---------------|------------------------|
| Signing and Marking Plans | | | | | | | |
| 43rd Avenue | | 4 | 32 | 20 | 24 | | 5 sheets @ 16 hrs/ sht |
| QC/QA | 6 | | | | | | |
| Project Management | 4 | | | | | | |
| | | | | | | | |
| Subtotal | 10 | 4 | 32 | 20 | 24 | 0 | |