

Memorandum



Date: May 20, 2025

To: Honorable Chairman Anthony Rodriguez
and Members, Board of County Commissioners

From: Daniella Levine Cava *Daniella Levine Cava*
Mayor

Subject: Amendment No. 14 to Professional Services Agreement C9620 between EAC Consulting, Inc. and Miami Dade County for the Design Phase of the Venetian Causeway Project

Agenda Item No. 8(N)(8)

Executive Summary

The purpose of this item is to gain authorization from the Miami-Dade Board of County Commissioners (Board) to execute Amendment No. 14 to Professional Services Agreement (PSA) C9620 with EAC Consulting, Inc. (EAC). The amendment facilitates the completion of final design plans for the replacement of 11 bridges under the Venetian Causeway project, increasing the contract capacity by \$1,366,682.82, for a total contract amount not to exceed \$15,113,035.05. More specifically, the amendment addresses changes to the project scope, i.e., island restoration, residential islands roadway improvements, landscaping plans, a conch survey and the relocation of a Water and Sewer Department (WASD) force main. The Department of Transportation and Public Works (DTPW) oversees this project and has coordinated with the Florida Department of Transportation (FDOT) and the Federal Highway Administration (FHWA) to ensure the redesign incorporates resiliency measures (sea level rise and wave action from future storms) and overall safety.

Recommendation

It is recommended that the Board approves Amendment No. 14 to the PSA with EAC to increase contract capacity by \$1,366,682.82 for final design and plans preparation services for the Venetian Causeway, resulting in a maximum total contract amount of \$15,113,035.05.

Scope

The scope of the project is located within Commission Districts 3 and 4, represented by Commissioner Keon Hardemon, and Commissioner Micky Steinberg, respectively. However, the impact of the project is countywide as the Venetian Causeway connects mainland Miami to Miami Beach.

Delegation of Authority

The authority of the County Mayor or the County Mayor's designee to execute Amendment No. 14 to the PSA is consistent with those authorities granted under the County Code. No further delegation is necessary or being requested for this item.

Fiscal Impact/Funding Source

The fiscal impact of this amendment is \$1,366,682.82, which includes a contingency allowance of \$124,243.89 for unforeseen work. There are no operation and maintenance costs as the agreement is for design services.

Funding for Amendment No. 14 is found in the following:

- Volume 2 of the Fiscal Year 2024-25 Adopted Budget and Multi-Year Capital Plan (page 188).
- Capital Budget Program No. 2000000266 – Venetian Causeway – Bridge Replacement Matching Funds, Project No. 3000583.

The revenue sources are:

- Capital Asset Series 2010 Bonds
- Causeway Toll Revenue
- Future Financing
- Mobility Impact Fee

Track Record/Monitor

The project will be managed by Ryan Fisher, P.E., Manager, Highway Bridge Engineering, DTPW.

Background

The Venetian Causeway, built in 1926, spans Biscayne Bay, connecting Miami and Miami Beach via six man-made residential barrier islands linked by 10 fixed bridges and two movable bridges. Listed on the National Register of Historic Places and designated as historic by both the City of Miami and Miami Beach, the Causeway is one of the oldest in the region. Over the last 99 years, the Causeway has faced significant environmental wear, leading to widespread deficiencies in its 12 bridges. Previous rehabilitation projects completed in 1997 and 2008 aimed to restore the bridges to their original capacity and ensure the Causeway's continued safe operation. However, these repairs were expected to last only about 10 years, and the bridges now require further attention.

On May 3, 2022, the Board adopted Resolution No. R-427-22, authorizing the assignment of the Standard PSA between EAC and FDOT to the County, along with Amendment No. 13 to the PSA and a Local Agency Program (LAP) Agreement for final design plans to replace 11 bridges on the Venetian Causeway. The total contract value for all services was \$13,746,352.23.

Under this agreement, EAC has been preparing contract documents for the design and construction of 11 new bridges along the Causeway, from North Bayshore Drive in Miami to Purdy Avenue in Miami Beach. These documents, now 60 percent complete, include plans, specifications, engineering analyses, and other technical documentation in line with County policies and requirements. As design work progressed, unforeseen issues related to environmental, survey, aesthetic, landscaping, roadway design and geotechnical needs have emerged, necessitating additional scope and effort, including roadway design adjustments for the residential islands.

This amendment addresses scope changes, including island restoration, roadway improvements on residential islands, landscaping plans, a conch survey and the relocation of a WASD force main. DTPW oversees this project and has coordinated with FDOT and FHWA to ensure the redesign incorporates resiliency measures, such as addressing sea level rise and storm surge.

Upon Board approval, it is expected that the Notice to Proceed for this amendment will be issued within 30 days. Final plans will continue to be developed, with construction anticipated to commence approximately 33 months thereafter, followed by an estimated 48-month construction timeline.

Contract Measures and Due Diligence

The FDOT-EAC PSA did not include a mandatory Disadvantaged Business Enterprise (DBE) goal. DBE firms were encouraged to compete for professional services projects and non-DBE firms were encouraged to use DBE firms as subconsultants. EAC has committed to a 10 percent DBE participation for the additional services.

<i>Subconsultants:</i>	Stantec Consulting Services Inc.	HBC Engineering Company*
	Brand Associates, Inc.*	Janus Research, Inc.
	Geosol, Inc.*	Manuel G. Vera & Associates, Inc.*
	Hardesty & Hanover, LLC	Berenblum Busch Architects, Inc.*
	Intera Incorporated	*DBE Firms

Pursuant to Resolution No. R-187-12 and in accordance with the Strategic Procurement Department's Procurement Guidelines, DTPW staff performed due diligence to determine EAC's responsibility. The lists that were referenced included, but were not limited to, convicted vendors, debarred vendors, delinquent contractors, suspended vendors, and federal excluded parties. There were no adverse findings relating to the consultant's responsibility.



Jimmy Morales
Chief Operating Officer



MEMORANDUM

(Revised)

TO: Honorable Chairman Anthony Rodriguez
and Members, Board of County Commissioners

DATE: May 20, 2025

FROM: 
Gen Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 8(N)(8)

Please note any items checked.

- _____ **“3-Day Rule” for committees applicable if raised**
- _____ **6 weeks required between first reading and public hearing**
- _____ **4 weeks notification to municipal officials required prior to public hearing**
- _____ **Decreases revenues or increases expenditures without balancing budget**
- _____ **Budget required**
- _____ **Statement of fiscal impact required**
- _____ **Statement of social equity required**
- _____ **Ordinance creating a new board requires detailed County Mayor’s report for public hearing**
- _____ **No committee review**
- _____ **Applicable legislation requires more than a majority vote (i.e., 2/3’s present ____, 2/3 membership ____, 3/5’s ____, unanimous ____, majority plus one ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3) (h) or (4)(c) ____, CDMP 9 vote requirement per 2-116.1(4)(c) (2) ____)** to approve
- _____ **Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(N)(8)
5-20-25

RESOLUTION NO. _____

RESOLUTION APPROVING AMENDMENT NUMBER 14 TO AGREEMENT NUMBER C9620 BETWEEN MIAMI-DADE COUNTY AND EAC CONSULTING, INC., IN SUBSTANTIALLY THE FORM ATTACHED HERETO AND MADE A PART HEREOF, FOR THE FINAL DESIGN AND PLANS PREPARATION FOR THE REPLACEMENT OF 11 BRIDGES UNDER THE VENETIAN CAUSEWAY PROJECT, INCREASING THE CONTRACT BY AN AMOUNT NOT TO EXCEED \$1,366,682.82, INCLUSIVE OF A CONTINGENCY AMOUNT OF \$124,243.89, FOR A TOTAL CONTRACT AMOUNT NOT TO EXCEED \$15,113,035.05; AND AUTHORIZING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EXECUTE THE SAME AND TO EXERCISE THE RIGHTS CONTAINED THEREIN

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board:

Section 1. Approves Amendment Number 14 to Agreement Number C9620 between Miami-Dade County and EAC Consulting, Inc., in substantially the form attached hereto and made a part hereof, for the final design and plans preparation for the replacement of 11 bridges under the Venetian Causeway project, increasing the contract by an amount not to exceed \$1,366,682.82, inclusive of a contingency amount of \$124,243.89, for a total contract amount not to exceed \$15,113,035.05.

Section 2. Authorizes the County Mayor or County Mayor's designee to execute Amendment Number 14, in substantially the form attached hereto and made a part hereof, for and on behalf of Miami-Dade County and to exercise all rights contained therein.

The foregoing resolution was offered by Commissioner ,
who moved its adoption. The motion was seconded by Commissioner
and upon being put to a vote, the vote was as follows:

Anthony Rodriguez, Chairman	
Kionne L. McGhee, Vice Chairman	
Marleine Bastien	Juan Carlos Bermudez
Sen. René García	Oliver G. Gilbert, III
Roberto J. Gonzalez	Keon Hardemon
Danielle Cohen Higgins	Eileen Higgins
Natalie Milian Orbis	Raquel A. Regalado
Micky Steinberg	

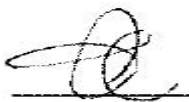
The Chairperson thereupon declared this resolution duly passed and adopted this 20th day of May, 2025. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

JUAN FERNANDEZ-BARQUIN, CLERK

By: _____
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.



Annery Pulgar Alfonso

MIAMI-DADE COUNTY
AMENDMENT TO
STANDARD PROFESSIONAL SERVICES AGREEMENT

Amendment Number: 14 Amendment Execution Date: _____
Original Amendment No.: C9620 Original Agreement Execution Date: 6/28/2012
Consultant Name: EAC Consulting, Inc.
FM Numbers: 422713-2-22-01
FAP No.: N/A
Agreement Description: Venetian Causeway from North Bayshore Drive to Purdy Avenue
Purpose of Amendment: Add Funds, Incorporate attachments to the Contract

This Fourteenth Amendment is made and entered into as of the day and year first above written by and between Miami-Dade County, Florida, a public body, hereinafter referred to as the "COUNTY", and EAC Consulting, Inc., hereinafter referred to as the "CONSULTANT".

W I T N E S S E T H

WHEREAS, the Florida Department of Transportation (FDOT) and the CONSULTANT entered into a Standard Professional Services Agreement Number C9620 (AGREEMENT) to conduct a Project Development and Environment Study for the Venetian Causeway from North Bayshore Drive to Purdy Avenue; and

WHEREAS, FDOT assigned the AGREEMENT to the COUNTY in order for the COUNTY to exercise the option for the CONSULTANT to provide final design and plans preparation services to replace 11 bridges on the Venetian Causeway; and

WHEREAS, the COUNTY and the CONSULTANT agreed to the Assignment of the AGREEMENT; and

WHEREAS, the parties wish to make certain revisions to the AGREEMENT as provided below as a result of unforeseen items that have been found during the design and plan preparation phase related to previously unknown environmental, survey, aesthetic design, landscaping design, roadway design, and geotechnical needs that would enhance the project.

NOW, THEREFORE, the parties hereto do mutually agree to amend the AGREEMENT as follows:

The total maximum limiting amount of \$13,746,352.23 for all services required under the original agreement and all supplements and amendments thereto is herein increased by \$1,366,682.82. The revised total maximum limiting amount for all services is \$15,113,035.05. The services specified in Exhibit "A", Scope of Services of the original agreement are amended and attached as Exhibit "A".

SECTION 6 – MISCELLANEOUS

Section 6.C of the Standard Professional Services Agreement, is revised as follows:

The following attachments are hereby incorporated into this Agreement as part hereof as though fully set forth herein:

Exhibit “A”, SCOPE OF SERVICES – Supplemental, with accompanying fee proposal.

MIAMI-DADE COUNTY
STANDARD PROFESSIONAL SERVICES AGREEMENT TERMS

IN WITNESS WHEREOF the parties hereto have caused these presents to be executed the day and year first above written.

CONSULTANT:

EAC CONSULTING, INC.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

By: Enrique Crooks
Name: Enrique Crooks
Title: President

By: _____
Name: _____
Title: County Mayor or Designee

ATTEST:

HARVEY RUVIN

Approved by the County Attorney
as to Form and Legal Sufficiency:

By: _____

By: _____
Name: _____
Title: _____

CONSULTANT ATTEST:

By: Jayne Ortega
Name: Jayne Ortega
Title: Office Manager

SCOPE OF SERVICES – Supplemental
Venetian Causeway Bridge Replacement Final Design
Miami-Dade County Department of Transportation and Public Works (DTPW)
Contract No. C9620
PW Project No. 20210011
EAC Project No. 21039. PD01

PURPOSE

Additional services are required to address the changes to the project scope to address island restoration, residential islands roadway improvements, landscaping plans, conch survey and the relocation of a WASD Forcemain (FM).

1.0 PROJECT MANAGEMENT & GENERAL TASKS

1. Attend project manager meetings with various departments and authorities related to:
 - a. Utilities – Subaqueous
 - b. Structures Design
 - c. Environmental/Permitting - Conch
 - d. Landscape Architecture
 - e. Geotechnical Engineering
2. Perform field reviews

2.0 DESIGN SURVEY

1. Design survey for Grand Venetian and Bella Isla
2. Design survey for outfalls and bridges

3.0 ENVIRONMENTAL/PERMITTING

1. Initial Conch surveys to get clearance for geotechnical borings
2. Additional conch surveys including to the revised USACE guidance.

4.0 LANDSCAPE PLANS

The Task Numbers throughout this Amendment Scope of Services are in reference to the activities identified on the Staff Hour Estimation forms.

Under this Amendment, the CONSULTANT shall provide the following services:

4 and 5 Roadway Analysis and Plans (Activities 4 and 5)

- 4.12 Traffic Control Analysis

Traffic control analysis to determine the safe access and exit of trucks to the receiving site.

4.14 Traffic Control Quantities

Develop Traffic Control Quantities

4.15 Traffic Control Estimates

Develop one cost estimate and update the final estimate.

5.14 Temporary Traffic Control Plans (TTCP Notes and Details)

Develop one sheet to include TTCP Notes and one sheet for TTCP Details

25 and 26 Landscape Architecture Analysis and Plans (Activities 25 and 26)

25.1 Data Collection

Includes all research required to collect data necessary to complete design analysis.

25.3 Master Design File Setup (Base Files)

Setup master design files which may include: converting drawing files from Microstation to AutoCAD or vice versa, creating base CADD files from provided roadway plans, and acquiring additional information from lighting, utilities, ITS, signage/pavement markings, drainage, maintenance, etc.

25.4 Site Inventory and Analysis

Includes identification of receiving site opportunities and constraints for the proposed projects based on existing site conditions. Site inventory areas are limited to the following roadway and bridge project areas:

Biscayne Island: start STA 134+00.00, end STA 152+00.00 (1,800 ft) (Toll Plaza Area N/A)

San Marco Island: start STA 158+20.00, end STA 172+40.00 (1,420 ft)

San Marino Island: start STA 182+60.00, end STA 184+70.00 (210 ft)

Di Lido Island: start STA 195+60.00, end STA 197+70.00 (210 ft)

Bell Isle Island: start STA 231+00.00, end STA 233+60.00 (260 ft)

The above areas include up to nine (9) center medians containing plant materials.

25.7 Final Planting Design

Final Planting Design includes all work in master design files. Planting design includes the new plants, donor site data, and the development of receiving site placement of relocated

plants (includes species/type, size, location). Planting design areas are limited to the following project areas:

Biscayne Island: start STA 134+00.00, end STA 152+00.00 (1,800 ft) (Toll Plaza Area N/A)

San Marco Island: start STA 158+20.00, end STA 172+40.00 (1,420 ft)

San Marino Island: start STA 182+60.00, end STA 184+70.00 (210 ft)

Di Lido Island: start STA 195+60.00, end STA 197+70.00 (210 ft)

Bell Isle Island: start STA 231+00.00, end STA 233+60.00 (260 ft)

Up to five (5) spoil islands.

Upon receipt of County approval to use the area known as Venetian Causeway Park as a receiving site, Consultant will provide minor coordination with the County Park Staff to field locate select plant materials designated as acceptable relocates. Consultant is not responsible for the location of above or below ground utilities in these areas prior to excavation/installation of plant materials.

25.13 Cost Estimates

Prepare one (1) final cost estimate for each receiving site to be included with relocation plan submittals.

25.14 Technical or Modified Special Provisions

One (1) minor modification to existing TSPs and MSPs for plant relocation only.

25.15 Other Landscape Services

Inclusion of a design layout plan for coordination with County and other stakeholders regarding potential receiving site areas and to provide a design that reasonably presents a unified design/appearance. Preparation of up to (1) color plan exhibit depicting proposed landscape design/layout.

25.16 Quality Assurance/Quality Control

25.17 Supervision

25.18 Landscape Meetings

Includes coordination meetings with other disciplines (Permit preparation and application; Utilities; Traffic Control; Architecture; Roadway; Structures; Drainage; Lighting; ITS).

25.19 Field Reviews

Includes travel time for trips to field to obtain data necessary for design. Included for

planting, irrigation, and hardscape design.

25.20 Coordination

Includes all efforts to coordinate internally with survey, geotechnical, drainage, structures, lighting, roadway, signals, utilities, rail road, permits, schedules, specifications, bicycle/ pedestrian/ transit, landscape architecture, traffic operations, and other Department offices to produce a final set of construction documents.

26.1 Key Sheets and Signature Sheet

Includes creating and delivering the Key Sheet & Signature Sheet.

26.3 General Notes/Pay Item Notes

Includes creating and delivering the General and Pay Item Notes Sheet.

26.4 Planting Plans for Linear Areas

Includes creating and delivering the Donor Site Disposition Plans and proposed Planting Plans and Tabulation Sheets for Linear Areas at the receiving sites.

Receiving site areas are limited to the following project areas:

Biscayne Island: start STA 134+00.00, end STA 152+00.00 (1,800 ft) (Toll Plaza Area N/A)

San Marco Island: start STA 158+20.00, end STA 172+40.00 (1,420 ft)

San Marino Island: start STA 182+60.00, end STA 184+70.00 (210 ft)

Di Lido Island: start STA 195+60.00, end STA 197+70.00 (210 ft)

Bell Isle Island: start STA 231+00.00, end STA 233+60.00 (260 ft)

Up to five (5) spoil islands.

Upon receipt of County approval to use the area known as Venetian Causeway Park as a receiving site, Consultant will provide minor coordination with the County Park Staff to field locate select plant materials designated as acceptable relocates. Consultant is not responsible for the location of above or below ground utilities in these areas prior to excavation/installation of plant materials.

26.12 Quality Assurance/Quality Control

26.13 Supervision

All design and plans preparation shall be in accordance with Exhibit "A", Scope of Services, of the original Standards Professional Services Agreement.

5.0 WASD FORCEMAIN

Task 1 – Field Investigations and Data Collection

EAC shall perform services to coordinate and gather relevant field information such as data to be utilized for engineering design and the development of construction plans and technical specifications. Included in this task are EAC's efforts to perform all site reconnaissance, field reviews, data gathering and organization necessary to support the development of design.

Task 1.1 – Engineering Services: Topography and Bathymetric Surveying & Mapping

EAC shall coordinate the services of the project team's surveyor, MGVS, which will be responsible for providing topography and bathymetric survey and mapping services. Refer to the attached Scope and Fee proposal from MGVS for additional details. EAC shall review the completed survey and provide a copy for the review and approval of the MD-WASD surveying section.

Please note that MD-WASD shall provide EAC with a current list of surveying requirements prior to the commencement of the surveying activities.

Deliverables:

- 1) Topography Survey
- 2) Bathymetric Survey

Task 1.2 – Engineering Services: Geotechnical Engineering & Investigations Coordination

EAC shall coordinate the services of the project team's geotechnical engineering firm, GEOS, which will be responsible for providing geotechnical engineering services. Please refer to the attached Scope and Fee proposal from GEOS for additional details. EAC shall review the completed geotechnical engineering report and forward to MD-WASD for acceptance.

Deliverables:

- 1) Geotechnical Engineering Report

Task 1.3 – Field Reconnaissance and Data Collection Review

EAC shall perform field reconnaissance to become familiarized with the site and identify any constraints that may impede construction. EAC will request as-built records and other existing information, research permit records, undertake all due diligence activities and investigative efforts to retrieve and compile existing conditions information.

Specifically, EAC shall:

- 1) Perform one (1) site visit to the project site
- 2) Request and review as-built records
- 3) Contact utilities identified by Sunshine One Call
- 4) Request information on any planned utilities Planned Utilities from UAOs (within the corridor)
- 5) Request Planned Projects list / description (for upcoming projects within the corridor) from MD-DTPW and adjacent municipalities.

- 6) Meet with permitting agencies to ascertain and establish their concerns and expectations for the project

Deliverables:

- 1) Preliminary list of permitting agencies
- 2) Preliminary list of utilities agencies within the project corridor
- 3) Project corridor picture records
- 4) PDF Electronic Files of all retrieved as-built information

Task 1.4 – Subsurface Utility Engineering (SUE) coordination

EAC shall coordinate the services of the project team's utility locating firm, MGCV, which will be responsible for providing up to 10 Quality Level A Locates. Please refer to the attached Scope and Fee proposal from MGCV for additional details. EAC shall review the completed utility locate report and forward to MD-WASD for acceptance.

Deliverables:

- 1) Utility locate report

Task 2 – Engineering Design Services

Task 2.1 – 30% Design Services

EAC shall undertake the 30% Design Services and prepare the 30% Design submittal & deliverables following established County guidelines and standards. The 30% Design shall be predicated on the recommendations of the Route Analysis effort and shall include a representation of the horizontal alignment of the proposed 6-inch pipeline overlaid on the topography survey base. The base survey shall include all pertinent survey data in addition to a horizontal projection of all existing utilities gathered during the Data Collection task.

EAC's 30% Design services shall encompass:

- 1) 30% Design Kick Off Meeting
- 2) Provide Design Calculations / Design Report (if applicable)
- 3) Perform Field Visits / Reviews
 - a) Documentation of Field Conditions
- 4) Ongoing Utility Coordination Efforts
- 5) Identification of Permit Requirements / Development of Permit Coordination Matrix
- 6) Initiate contacts with permitting agencies, including pre application meeting with MD-DTPW and MD-WASD.
- 7) Development of Design Drawings (Schematic Level)
 - a) General Project Information Sheets
 - i) General Notes
 - ii) SWPPP Notes and Details
 - iii) Horizontal Control Plan Sheets
 - iv) Existing Conditions Plans Sheets
 - b) Pipeline Alignment Plan Sheets
- 8) Recording of Correspondences between EAC, County and other affected interests
- 9) Opinion of Probable Construction Costs
- 10) Design Schedule

11) Develop Preliminary List of Permitting Agencies and Contact Persons

Deliverables:

- 1) 30% Design (Schematic) Plans
- 2) Preliminary Design Calculations Report
- 3) Approvals / Permit Status Log
- 4) Updated Project Design Schedule
- 5) Opinion of Probable Construction Costs reflecting 30% Design progress

Task 2.3 – 90% Design Services

EAC shall continue to the Development of Design phase by reviewing, responding, and implementing the comments received at the 30% Design phase. EAC shall perform the 90% Design Services requirements and prepare the 90% Design submittal & deliverables following established County guidelines and standards. The 90% Design shall reflect the horizontal alignment and vertical profile of the proposed 6-inch pipeline overlaid on the topography survey base horizontally and vertically. The profile of the proposed 6-inch pipeline will be updated to reflect the results of the SUE activities, resolving conflicts, and allowing for successful installation.

The 90% Design deliverable would serve as the permit set and will be considered the “Issued for Permitting (IFP)” set.

EAC’s 90% Design services shall encompass:

- 1) Lead 90% Design Kick Off Meeting
- 2) Update Design Calculations / Design Report (where applicable)
- 3) Perform Supplemental Field Visits / Reviews
 - a) Documentation of Updated Field Conditions and impacts to work completed to date
- 4) Ongoing Utility Coordination Efforts
 - Update Permit Coordination Matrix
 - a) Ongoing Coordination with Permitting Jurisdictions
 - SUE / Soft Dig Locates Coordination
- 5) Develop Design Drawings (90% Design Development)
 - a) General Project Sheets
 - i) General Notes
 - ii) SWPPP Notes and Details
 - iii) Horizontal Control Plan Sheets
 - iv) Existing Conditions Plans Sheets
 - b) Pipeline Alignment Plan and Layout Sheets
 - i) Plan & Profile Sheets
 - ii) Special Details Sheets
 - c) Roadway Pavement Demolition Layout Plan Sheets
 - d) Roadway Pavement Restoration Plan Sheets, Sections and Details. Includes any pavement design needs required by responsible jurisdictions.
 - e) Pavement Marking Plan Sheets
- 6) Identification of Tree Removal Needs
- 7) Development Construction Specifications / Special Provisions
 - a) Technical Specifications
 - b) Special Provisions

- 8) Recording Correspondences between EAC, County and other affected interests
- 9) Update Opinion of Probable Construction Costs reflecting 90% Design progress
Update Design Schedule
Updated List of Permitting Agencies / Stakeholder Requirements

Deliverables:

- 1) 90% Design (IFP) Plans
- 2) Updated Design Calculations Report
- 3) Approvals / Permit Status Log
- 4) Updated Project Design Schedule
- 5) Updated Opinion of Probable Construction Costs
- 6) Updated Technical Specifications
- 7)

Task 3 – Permitting and Jurisdictional Approvals

Utilizing the permit contacts and log developed as part of the Design Development phase, EAC shall coordinate with each respective jurisdiction directly to ensure that the plan reviews and approvals occur expeditiously. The permit log shall include the costs of securing approvals. These costs or permit fees shall be paid by MD-DPTW.

Task 3.1 – Permitting and Jurisdictional Approvals

EAC shall coordinate the process of submitting plans for dry run and final reviews of permitting agencies. During this process, it is anticipated that it may be necessary to set up pre-permit application meetings with some of these jurisdictions. EAC shall arrange and attend these meetings and will invite MD-DTPW as needed

For the purposes of this scope of services document, EAC has determined that the following jurisdictions will require review of the design plans:

- 1) Miami Dade County Department of Regulatory and Economic Resources (MD-RER)
 - a) Sewer Extension Permit
 - b) Class III Permit
- 2) US Army Corps of Engineers (USACE)
 - a) Right of Way Permit

It is assumed that the permits the USACE right-of-way and MD-RER Class II permits being procured as part of the Venetian Bridge Replacement Project will be expanded to include the proposed work under this contract.

Deliverables:

- 1) Meeting Agenda / Summaries with All Agencies
- 2) Permitting Agencies RFI Log
- 3) Updated 90% Design (IFP) Plans
- 4) Approvals / Permit Status Log

Task 4 – Final Design Services

EAC shall reassemble the plans set based on all approvals from the permitting and jurisdictional

agencies.

Task 4.1 – Final Bid Set Drawings

EAC shall provide signed and sealed copies of the drawings, specifications and special provisions to MD-DPTW to be used during the bidding process. No changes are anticipated to the 100% Design set, unless otherwise requested by MD-DPTW. If made, EAC shall determine if the request constitutes a deviation from the permit set and if permitting needs to be re-undertaken. Furthermore, EAC shall determine if the deviation constitutes a redesign or a design amendment. In both cases, EAC shall coordinate with MD-DPTW to provide approval for amendment services.

Deliverables:

- 1) 100% Design (IFB) Plans
- 1) Final Technical Specifications
- 2) Final Special Provisions
- 3) Updated Opinion of Probable Construction Costs

Task 5 – Bid & Procurement Support Services

EAC shall offer limited support services to MD-DPTW during the procurement phase of the project.

Task 5.1 – Bid Document Compilation

It is assumed that this project is part of a much larger construction project. This task and related activities will be completed by the County's consultant in charge of said project. The task related to this activity include preparing a complete bid package, including the contract plans, specifications, and special provisions including general information / description of the work, special bidders' qualifications, clarification of work / discipline trades on the project, supplemental conditions, staging areas and other miscellaneous processes or supporting documentation needed to assemble a complete Bid Package.

Task 5.2 – Technical Support During Bid & Procurement

EAC shall continue ongoing support to MD-DPTW during the bid and procurement phase by making staff available to the County to serve as a technical resource. Our project personnel would attend a pre-bid meeting and provide needed technical assistance to the County to describe technical details to prospective bidders. EAC's technical support services during procurement includes the following specific tasks:

- 1) Attendance at Pre-Bid Meeting with MD-DPTW and the County (One Pre-Bid Meeting)
- 2) Respond to Bidders Inquiries and Requests for Clarification (Assumes 3 RFIs)
- 3) Assist with developing Addenda, as necessary (Assumes 3 Addenda)
- 4) Respond to MD-DPTW on prospective Bidders Qualifications and Experience after submittal of Bids. EAC shall not engage in services to verify Bidders experience or references.
- 5) Review submitted bids for irregularities as it pertains to the proposed work under this contract.
- 6) Issue Concurrence Memo for selected bidder

Deliverables:

- 1) Pre-Bid RFI Log with Responses to Questions
- 2) Bid Package Addenda (Contract Plans, Specifications & Special Provisions)

- 3) Concurrence Memorandum for selected bidder

Task 5.3 – Issue for Construction (IFC) Documents

It is assumed that this project is part of a much larger construction project. This task and related activities will be completed by the County's consultant in charge of said project. The task related to this activity include compilation all Addenda issued during the bid procurement phase and develop a set of conformed bid documents comprising Contract Plans, Technical Specifications and Special Provisions. The conformed bid set shall be the project's "Issue for Construction (IFC)" Documents.

Task 6 – Post Design Services

Task 6.1 – Construction Engineering Support

EAC shall offer limited scope of construction administration services with the goal of providing EAC with sufficient involvement during the construction period to facilitate engineering certification services, including shop drawing review, permit clearance, and certification for the project. To achieve this, the following tasks are being proposed:

- 1) EAC shall attend and participate in two (2) monthly construction progress meetings
- 2) EAC shall review and approve shop drawing submittals (up to 5 shop drawings)
- 3) EAC shall review and respond to RFIs (up to 3 RFIs)
- 4) EAC shall maintain a shop drawing and RFI log
- 5) EAC shall visit the site on a weekly basis to verify that the construction is proceeding in substantial conformance with the permitted plans and prepare field reports (based on 2-months)
- 6) EAC shall perform specialty site visits to witness field testing and prepare field report (up to 2 site visits).
- 7) EAC shall perform a final verification walk-through, once the County or its representative has made the determination that the contractor has achieved final completion.
- 8) EAC shall review certified as-builts prepared by a surveyor and mapper that is licensed to practice in the State of Florida and submitted by the Contractor. EAC shall provide comments as necessary until the as-builts are in an acceptable form.
- 9) EAC shall prepare record drawings based on certified as-builts.
- 10) EAC shall close-out existing design related permits.
- 11) EAC shall issue the County with a Certificate of Completion upon the completion of construction.

ASSUMPTIONS RELATING TO THE SCOPE OF WORK

1) Construction Administration Services

EAC's scope does not include full construction administration services. Limited construction support services will be provided as outlined in Task 6. Any additional services would require a separate authorization.

2) Construction Period Assumptions

The assumed construction period for the described scope is 120 days. Any extension to this timeline may require adjustments to the scope or additional services.

6.0 CONCH SURVEY

Surveys for presence/absence of queen conch during geotechnical activities for Bridges 2-13 (including the temporary bridge) in accordance with the USACE permit conditions. It is anticipated that a weekly survey covering a 154m radius around each bridge will be conducted for the duration of drilling activities in the water.

Based on the workplan discussed with Geosol and Nova, both firms will each deploy one rig at a time with 2 active work zones each week. Therefore Stantec will review at least 2 bridges during each weekly survey.. Assuming 3 days to complete per boring (SPT and rock core), we have assumed a total of 26 weekly surveys beginning 11/4/24 and 5 additional surveys for weather/equipment or other unforeseen delay.

We assume 3 staff x 8hrs/ day for each survey plus field preparation time and coordination with the driller to determine the weekly activities. Also included are GIS activities to organize data, coordination with agency and County staff as needed throughout the survey period. This time also includes preparation of a final report documenting survey results.

We anticipate weekly surveys between early November 2024 and early May 2025.

7.0 GFRP REINFORCING

In June 2024, EAC received the review comments by FDOT Central Office (CO).

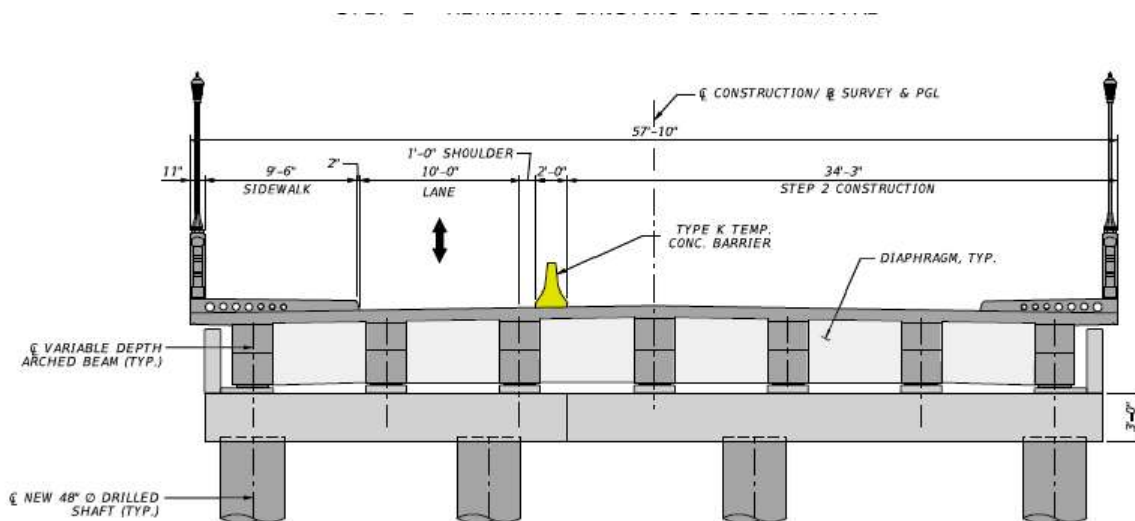


Figure 1 Typical Section (Fixed Bridges)

FDOT CO 60% review comments indicated that the drilled shafts with concrete caps are considered as “Pile Bent” and per SDG required that either stainless steel or GFRP (Glass Fiber

Reinforced Polymer) be used in the cap. After a full discussion in the comment resolution meeting, CO confirmed FDOT's position on the matter.

Per FDOT comments, EAC reevaluated the options for the substructure reinforcement considering both structural feasibility and cost impact.

The recommended corrosion protection measures for the fixed bridges are as follows:

Prestressed Beams: Stainless Steel for the prestressing strands and GFRP for the reinforcement

Drilled Shafts and CIP Caps: Carbon Steel (Black steel) for the drilled shafts, GFRP at the interface between the drilled shafts and the caps, and stainless steel for the caps.

This will satisfy FDOT CO comments, be structurally feasible and minimize the cost impact, which is about half a million dollars.

The changes above have resulted in additional design and plan production efforts For all fixed bridges - Bridges 2 thru 9, Bridge 10 fixed spans, and Bridge 11 and 12, please see attached fee estimate for detailed manhours and fees.

8.0 SUBAQUEOUS UTILITY LOCATION

Prewrite to location infrastructure and coordinate with utility agencies

Subaqueous utility location to allow for the construction of the temporary bridge at Bridge 10. As this is a bascule bridge, there are several existing subaqueous utilities on the north side of Bridge 10 in the vicinity of the proposed temporary bridge. The utility companies are unsure as to the exact location. As such, the services shown on the proposal from DOC Mapping will allow of the location of the existing utilities which will allow for the design of the temporary bridge foundation to avoid impacts.

FEE PROPOSAL

Financial Project Number: 999999-1-32-01
FAP Number: 54321

Project Name: Enter project name & description
Date: 2/25/2025
Name of Consultant: Enter name of prime or subconsultant

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

WORK ACTIVITY	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD PERCENT		
	Hours from Summary Sheet		Project Manager Hours	Senior Engineer Hours	Senior Project Engineer Hours	Project Engineer Hours	Engineer Hours	Designer Hours	Staff Classi- fication 7 Hours	Staff Classi- fication 8 Hours	Staff Classi- fication 9 Hours	Staff Classi- fication 10 Hours	Staff Classi- fication 11 Hours	Staff Classi- fication 12 Hours			
	Firm Total Hours	111															
3. Project Common and Project General Tasks	111	83	0	0	0	28	0	0	0	0	0	0	0	0	111	122	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6c. Selective C&G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	111	83	0	0	0	28	0	0	0	0	0	0	0	0	111	122	

Field Survey Estimate:	
0	4-person crew days
FIRM TOTAL	111
	122

- Notes:
1. This worksheet provides the distribution of a firm's total staff hours for a project.
 2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
 3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
 4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 9999999-1-32-01

FAP Number: 54321

Date: 2/25/2025

Project Name: Enter project name & description

Name of Consultant: Enter name of prime or subconsultant

Staff Hour Distribution Percentages - Firm Total													
	Hours from Summary Sheet Firm Total	Project Manager	Senior Engineer	Senior Project Engineer	Project Engineer	Engineer	Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12
3. Project Common and Project General Tasks	111	75.0%	35.0%	0.0%	25.0%	15.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4. Roadway Analysis	0	15.0%	30.0%	0.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5. Roadway Plans	0	10.0%	30.0%	0.0%	25.0%	15.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
6a. Drainage Analysis	0	15.0%	35.0%	0.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
6b. Drainage Plans	0	10.0%	30.0%	0.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
6c. Selective C&G	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7. Utilities	0	15.0%	35.0%	0.0%	10.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
8. Environmental Permits and Env. Clearances	0	15.0%	35.0%	0.0%	10.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
9. Structures - Misc. Tasks, Dwg. Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
19. Signing & Pavement Marking Analysis	0	15.0%	35.0%	0.0%	25.0%	15.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
20. Signing & Pavement Marking Plans	0	10.0%	30.0%	0.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
21. Signalization Analysis	0	20.0%	35.0%	0.0%	20.0%	15.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
25. Landscape Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
26. Landscape Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
30. Terrestrial Mobile LIDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project:
County:
F.P.N.:
FAP No.:

Enter project name & description
enter name of county
999999-1-32-01

Consultant Name:
Consultant No.:
Date:
Estimator:

Enter name of prime or subcontractant
enter consultants proj. number
2/25/2025
insert name

Staff Classification	Total Staff Hours From Summary - "SH Firm"	Project Manager	Senior Engineer	Senior Project Engineer	Project Engineer	Engineer	Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By	Salary Cost By Activity	Average Rate Per Task
3. Project Common and Project General Tasks	111	83	0	0	28	0	0	0	0	0	0	0	0	111	\$8,665	\$78.06
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	111	83	0	0	28	0	0	0	0	0	0	0	0	111	\$8,664.71	\$78.06
Total Staff Cost		\$7,079.07	\$0.00	\$0.00	\$1,586.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			

Survey Field Days by Subconsultant
4 - Person Crew:

SALARY RELATED COSTS:																
OVERHEAD:																
OPERATING MARGIN:																
ECOM (Facilities Capital Cost Money):																
EXPENSES:																
CDAF																
Survey (Field - if by Prime)	0															
Subconsultant: GEOSOL																
Subconsultant: HBC																
Subconsultant: MG/VERA																
Subconsultant: Stantec																
ESTIMATED FEE:																
Subconsultant: Stantec																
Subconsultant: Landscaping																
Subconsultant: Stantec																
Subconsultant: Corch Survey																
Subconsultant: Stantec																
Subconsultant: W/ASD FM																
Subconsultant: EAC																
Subconsultant: SAFT remainder																
Subconsultant: EAC																
Subconsultant: GFRP Reinforcing																
Subconsultant: DDC																
Subconsultant: Subsequent Utilities																
SUBTOTAL ESTIMATED FEE:																
Optional Services																
GRAND TOTAL ESTIMATED FEE:																

Check = \$8,664.71

Notes:
1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.
2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

MDC025

Project Activity 3: General Tasks

Estimator:						Enter project name & description 999999-1-32-01					
Representing			Print Name			Signature / Date					
FDOT District											
Consultant Name											
NOTE: Signature Block is optional, per District preference											
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments					
3.1	Public Involvement										
3.1.1	Community Awareness Plan	LS	1	0	0						
3.1.2	Notifications	LS	1	0	0						
3.1.3	Preparing Mailing Lists	LS	1	0	0						
3.1.4	Median Modification Letters	LS	1	0	0						
3.1.5	Driveway Modification Letters	LS	1	0	0						
3.1.6	Newsletters	LS	1	0	0						
3.1.7	Renderings and Fly Throughs	LS	1	0	0						
3.1.8	PowerPoint Presentation	LS	1	0	0						
3.1.9	Public Meeting Preparations	LS	1	8	8						
3.1.10	Public Meeting Attendance/Followup	LS	1	8	8						
3.1.11	Other Agency Meetings	LS	1	0	0						
3.1.12	Web Site	LS	1	0	0						
3.1 Public Involvement Subtotal					16						
3.2	Joint Project Agreements	EA	0	0	0						
3.3	Specifications & Estimates										
3.3.1	Specifications Package Preparation	LS	0	12	0						
3.3.2	Estimated Quantities Report Preparation	Report	0								
		Components	0	0	0						
3.4	Contract Maintenance and Project Documentation	LS	12	2	24	12 months at 2 hour a month related to this supplemental					
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0						
3.6	Prime Consultant Project Manager Meetings	LS	1	41	41	See listing below					

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.7	Plans Update	LS	1	0	0	

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	6	6	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.11.1	Aeronautical Evaluation	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	24	24	Address landscaping changes to drainage design
3.13	Other Project General Tasks	LS	1	0	0	
3. Project Common and Project General Tasks Total					111	
3.6 - List of Project Manager Meetings						
	Roadway Analysis	EA	0	4	0	
	Drainage	EA	0	2	0	
	Selective C&G	EA	0	0	0	
	Utilities	EA	5	2	10	Coordination for subaqueous locales
	Environmental	EA	10	1	10	
	Structures	EA	0	0	0	
	Signing & Pavement Marking	EA	0	0	0	
	Signalization	EA	0	0	0	
	Lighting	EA	0	2	0	
	Landscape Architecture	EA	1	16	16	Opportunity, Concept and Relocation coordination
	Survey	EA	0	0	0	
	Photogrammetry	EA	0	0	0	
	ROW & Mapping	EA	0	0	0	
	Terrestrial Mobile LIDAR	EA	0	0	0	
	Architecture	EA	0	0	0	
	Noise Barriers	EA	0	0	0	
	ITS Analysis	EA	0	0	0	
	Geotechnical	EA	5	1	5	Conch and schedule coordination
	Progress Meetings	EA	0	4	0	
	Phase Reviews	EA	0	0	0	
	Field Reviews	EA	0	0	0	

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
Total Project Manager Meetings			21		41	Total PM Meeting Hours carries to Task 3.6 above

Notes:

- 1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.
- 2. Do not double count agency meetings between permitting agencies.
- 3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D.

LANDSCAPING - STANTEC

Name of Project:	Venetian Causeway - Landscape Services
County:	Miami-Dade
FPN:	422713-2-32-01
EAP No.:	1/01/1900

Consultant Name: Stanec Consulting Services Inc.
 Consultant No.: enter consultants proj. number
 Date: 11/1/2024
 Estimator: insert name

Survey Field Days by Subconsultant
4 - Person Crew:

1. This sheet to be used by Prime Consultant to calculate the Grand Total fee

2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

[illegible]

~~MDC034~~

MDC032

Subconsultant	0				\$0.00
Subconsultant	0				\$0.00
Subconsultant	0				\$0.00
SUBTOTAL ESTIMATED FEE:					
\$95,214.49					
Geotechnical Field and Lab Testing					
SUBTOTAL ESTIMATED FEE:					
\$95,214.49					
Optional Services					\$0.00
GRAND TOTAL ESTIMATED FEE:					
\$95,214.49					

Financial Project Number: 422713-2-32-01
FAP Number: 0

Date: 11/11/2024

Project Name: Venetian Causeway - Landscape Service
Name of Consultant: Stanlec Consulting Services Inc.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

WORK ACTIVITY	Hours from Summary Sheet		EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD
	Firm Total	Chief Landscape Architect	Chief Designer	Landscape Designer	Landscape Designer	Engineer 2	0		0		0		0		0		
							Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			
3. Project Common and Project General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	36	0	0	0	0	36	0	0	0	0	0	0	0	0	36	40	
5. Roadway Plans	14	0	0	0	0	14	0	0	0	0	0	0	0	0	14	15	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6c. Selective C&G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dmgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	630	8	48	287	287	0	0	0	0	0	0	0	0	0	630	693	
26. Landscape Plans	56	4	4	24	24	0	0	0	0	0	0	0	0	0	56	62	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	736	12	52	311	311	50	0	0	0	0	0	0	0	0	736	810	

Field Survey Estimate.

Field Survey Estimate:

- Notes:
1. This worksheet provides the distribution of a firm's total staff hours for a project. 0 4-person crew days
 2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
 3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
 4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

FIRM TOTAL

736

810

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:

4422713-2-32-01

Project Name: Vernetian Causeway - Landscape Service

FAP Number:

0

Date: 11/1/2024

Name of Consultant: Stantec Consulting Services Inc.

Staff Hour Distribution Percentages - Firm Total														Total	
	Hours from Summary Sheet Firm Total	Chief Landscape Architect	Chief Designer	Landscape Designer	Landscape Designer	Engineer 2	0	0	0	0	0	0	0	0	
3. Project Common and Project General Tasks	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
4. Roadway Analysis	36	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	14	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6b. Drainage Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6c. Selective C&G	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
8. Environmental Permits and Env. Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, DWGs, Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Analysis	630	2.0%	8.0%	45.0%	45.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
26. Landscape Plans	56	7.0%	7.0%	43.0%	43.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LIDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

Estimator: Luis Lazo

4. Roadway Analysis Staff Hours

Venetian Causeway - Landscape Services
4227 13-2-32-01

How to Use This Form

Representing

Print Name

Signature / Date

FDOT District

Luis Lazo, P.E.

Stanlec

NOTE: Signature Block is optional, per District preference

Task No.

Task

Project Parameter

Staff Hours

Documentation

Description

Units

Complexity

Calculated

Department

Consultant

Negotiated

Provide documentation when negotiated hours differ from the calculated hours.

What is the overall project complexity? (See Roadway Guidelines)

4.1

Typical Section Package

Cover

0

Below

0

0

0

0

Not Applicable

4.2

Pavement Type Selection Report

Report & Assembly

0

Below

0

0

0

0

Not Applicable

4.3

Pavement Design Package

Pavt Design

0

Below

0

0

0

0

Not Applicable

4.4

Cross Slope Analysis (lanes and shoulders)

X-Slope Assessment

0.00

Below

0

0

0

0

Not Applicable

4.5

Safety Analysis

HSM Assessment

0

Below

0

0

0

0

Not Applicable

4.6

Design Analysis

Monitor Exist. Structures

0

Below

0

0

0

0

Not Applicable

4.7

Operational Analysis

Roundabout

0

Below

0

0

0

0

Not Applicable

4.8

Design Reports

RRR

0

Below

0

0

0

0

Not Applicable

4.9

Design Variations and Exceptions

Variation Memo

0

Below

0

0

0

0

Not Applicable

4.10

Master Design File Setup & Maintenance, Model Management Plan

LS

0

Below

0

0

0

0

Not Applicable

4.11

Horizontal / Vertical Master Design Files

Mainline

0.00

Below

0

0

0

0

Not Applicable

4.12

3D Modeling Development

Side Road & Ramps

0.00

Below

0

0

0

0

Not Applicable

4.13

TTCP Analysis

Length (Phase-Miles)

0.00

Below

0

0

0

0

Not Applicable

4.14

TTCP Master Design Files

Locations

0

Below

0

0

0

0

Not Applicable

4.15

Utility Data Collection & Analysis

LS

0

Below

0

0

0

0

Not Applicable

4.16

Roadway Quantities for EQ Report

Length (Miles)

0.00

Below

0

0

0

0

Not Applicable

4.17

TTCP Quantities for EQ Report

Major Phases

1

Simple

6

0

6

0

Develop Traffic Control Quantities

4.18

Cost Estimate

Engineer Estimate

1

Below

8

0

8

0

Develop one cost estimate and update the final estimate.

4.19

Technical or Modified Special Provisions

LRE Updates

0

Below

0

0

0

0

Not Applicable

4.20

TSPs & MSPs

TSPs & MSPs

0

Below

0

0

0

0

Not Applicable

4.21

Other Roadway Tasks

Other Analysis

0

Below

0

0

0

0

Not Applicable

4.22

Coordination

LS

1

3%

2

0

2

0

Not Applicable

Roadway Analysis Technical Subtotal

24

0

24

0

Roadway Analysis Non-Technical Subtotal

10

0

10

0

4. Roadway Analysis Total

36

0

36

0

4.18

Quality Assurance/Quality Control

LS

1

5%

2

0

2

0

Not Applicable

4.19

Supervision

LS

1

5%

2

0

2

0

Not Applicable

4.20

Roadway Meetings (listed below)

Meetings

3

6

0

6

0

Not Applicable

4.21

Field Reviews (listed below)

Travel Time

0

0

0

0

Not Applicable

4.22

Field Reviews (listed below)

LS

0

0

0

0

Not Applicable

Roadway Analysis Technical Subtotal

24

0

24

0

Roadway Analysis Non-Technical Subtotal

10

0

10

0

4. Roadway Analysis Total

36

0

36

0

Please contact the Staff Hour Forms Manager below for further assistance.
Ryan Buck, P.E.
Project Management Support Engineer
Ryan.Buck@dot.state.fl.us
(850)414-4343

Technical Meetings	# Meetings Designer	Travel Time (Hours)	# Meetings PM	Documentation
Typical Section	0	0	0	
Pavement Design	0	0	0	
Access Management / Driveways	0	0	0	
15% Line and Grade	0	0	0	
RRR / ECAR Resolution	0	0	0	
Local Governments (cities, counties, MPO)	0	0	0	
Work Zone Traffic Control	0	0	0	
30/60/90/100% Comment Review Meetings	0	0	0	
Utility Coordination	0	0	0	
Other Meetings	3	0	0	1 mtg each receiving site x 3 = 3 mtgs
Subtotal Technical Meetings	3	0	0	
Progress Meetings (if required by FDOT)	0	0		
Phase Review Meetings	0	0		
Total Roadway Meetings	3	0		

Field Reviews	# of Staff	Site Time (per staff)	Travel Time (per staff)	Total Hours
Field Review #1	0	0	0	0
Field Review #2	0	0	0	0
Field Review #3	0	0	0	0
Field Review #4	0	0	0	0
Plans-in-hand Field Review	0	0	0	0
Total Field Review Hours				0

Sponsor: Luis Lazo		5. Roadway Plans Staff Hours				Veridian Causeway - Landscape Services 4221 13-0-32-01				How to Use This Form	
Representing		Print Name				Signature / Date				Video Tutorials - Short Webinars for each Staff Hour Form Calculated hours represent the expected effort to complete each task based on project parameters and should be considered a starting point for staff hour negotiations. The Consultant and Department staff must jointly determine the appropriate staff hours to fully cover the effort.	
FDOT District											
Stantec		Luis Lazo, P.E.									
NOTE: Signature Block is optional, per District preference											
Task No.	Task	Project Parameter			Staff Hours				Documentation		
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	Provide documentation when negotiated hours differ from the calculated hours.		
What is the overall project complexity? (See Roadway Guidelines)										Below	
5.1	Key Sheet		0		0	0	0	0	Not Applicable		1. All items in RED font are for the user to edit cell. 2. All cells that are shaded in RED contain a drop down list for the user to make a selection. 3. Most "Project Parameter" cells will have a brief explanation of what should be inserted in the cell, this information is displayed by selecting a cell and hovering over that cell with your cursor. 4. All cells designed not to be edited by the user have been locked for the users convenience to avoid accidental edits of formulas, text, etc. If you recognize any errors in the locked cells, please contact the Staff Hour Forms Manager listed below.
	Signature Sheet		0		0	0	0	0	Not Applicable		
5.2	Typical Section Sheets	Typical Sections w/ CAD	0		0	0	0	0	Not Applicable		
		Typical Sections w/o CAD	0		0	0	0	0	Not Applicable		
		Partial Sections	0		0	0	0	0	Not Applicable		
5.3	Cross Slope Correction Details	Pavement Segments	0		0	0	0	0	Not Applicable		
5.4	General Notes/Play Item Notes		0		0	0	0	0	Not Applicable		
5.5	Project Layout/Model Management		0		0	0	0	0	Not Applicable		
5.6	Plan View (Plan Sheets)	Length (Miles)	0.00	Below	0	0	0	0	Not Applicable		
		Interchange	0		0	0	0	0	Not Applicable		
		Roundabout	0		0	0	0	0	Not Applicable		
5.7	Profile View (Plan/Profile Sheets)	Length (Miles)	0.00	Flash Shoulder	0	0	0	0	Not Applicable		
			0.00	Cutbed	0	0	0	0	Not Applicable		
5.8	Special Profiles	Driveway Curb Return	0		0	0	0	0	Not Applicable		
		Intersection R/R Xing	0		0	0	0	0	Not Applicable		
5.9	Sidewalk Profiles	Length (Miles)	0.00		0	0	0	0	Not Applicable		
5.10	Interchange Layout Sheet	Interchange	0	Standard 2 Levels	0	0	0	0	Not Applicable		
			0	Complex 3+ Levels	0	0	0	0	Not Applicable		
5.11	Details	Ramp Terminal	0		0	0	0	0	Not Applicable		
		Intersection Layout	0		0	0	0	0	Not Applicable		
		Special	0		0	0	0	0	Not Applicable		
5.12	Soil Survey Sheets		0		0	0	0	0	Not Applicable		
5.13	Cross Sections	Alignments	0		0	0	0	0	Not Applicable		
5.14	Temporary Traffic Control Plan	TTC Notes	1		4	0	4	0	Develop one sheet to include TTC Notes		
		Length (Miles)	0.00	Below	0	0	0	0	Not Applicable		
		Critical Cross Sections	0		0	0	0	0	Not Applicable		
		TTC Details	1		8	0	8	0	Develop one sheet to include TTC Details		
5.15	Utility Adjustment Sheets	Length (Miles)	0.00		0	0	0	0	Not Applicable		
5.16	Project Control Sheets		0		0	0	0	0	Not Applicable		
5.17	Utility Verification Data (SUE)		0		0	0	0	0	Not Applicable		
Roadway Plans Technical Hours Subtotal					12	0	12	0			Please contact the Staff Hour Forms Manager below for further assistance. Ryan Buck, P.E. Project Management Support Engineer Ryan.Buck@dot.state.fl.us (850)414-4343
5.18	Quality Assurance/Quality Control	%	1	5%	1	0	1	0			
5.19	Supervision	%	1	8%	1	0	1	0			
Roadway Plans Total					14	0	14	0			

Continued Summary Tab

Estimator:		25. Landscape Analysis Staff Hours							Veretian Causeway - Landscape Services 4/22/13-2:32:01	
Representing		Print Name					Signature / Date			
FDOT District										
Stantec		Kevin G. Mangan, PLA								
NOTE: Signature Block is optional, per District preference										
Task No.	Task	Project Parameter			Staff Hours				Documentation	
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated		
What is the complexity of the planting plan? (See Landscape Guidelines)										
25.1	Data Collection	LS	1	Standard	24	0	24	0	Includes all research required to collect data necessary to complete design analysis.	
25.2	Outdoor Advertising Assessment	Sign Structure	0		0	0	0	0	Not Applicable	
25.3	Master Design File Setup (Base Files)	LS	1	Standard	28	0	24	0	Setup master design files which may include: acquiring CAD files from outside sources; if no survey is performed as part of the project, converting drawing files from Microstation to AutoCAD or vice versa, creating base CAD files from a variety of sources, and acquiring additional information from lighting, utilities, ITS, signage/pavement markings, drainage, maintenance, etc.	
25.4	Site Inventory and Analysis	Length (Miles)	2.67	Mid	86	0	80	0	Includes identification of receiving site opportunities and constraints for the proposed projects based on existing site conditions.	
		Area Projects Area (Acre)	0.00	Mid	0	0	0	0		
25.5	Landscape Opportunity Plan	Mainline Length (Miles)	0.00		0	0	0	0	Not Applicable	
		Area Projects Area (Acre)	0.00		0	0	0	0	Not Applicable	
25.6	Conceptual Planting Design	Report Preparation	0	Mid	0	0	0	0	Not Applicable	
		Mainline Length (Miles)	0.00	Mid	0	0	0	0	Not Applicable	
		Area Projects Area (Acre)	0.00	Mid	0	0	0	0	Not Applicable	
25.7	Final Planting Design	Mainline Length (Miles)	2.67	Mid	321	0	232	0	Final Planting Design includes all work in master design files. Planting design includes the new plants, donor site data, and the development of receiving site placement of relocated plants (includes species/type, size, location).	
		Area Projects Area (Acre)	0.00	Mid	0	0	0	0	Not Applicable	
25.8	Conceptual Irrigation Design	Feasibility Report	0		0	0	0	0	Not Applicable	
		Mainline Length (Miles)	0.00		0	0	0	0	Not Applicable	
		Area Projects	0		0	0	0	0	Not Applicable	
25.9	Final Irrigation Design	Mainline (per mile)	0.00		0	0	0	0	Not Applicable	
		Area Projects	0		0	0	0	0	Not Applicable	
25.10	Conceptual Hardscape Design	Report Preparation	0		0	0	0	0	Not Applicable	
		LS	0		0	0	0	0	Not Applicable	
25.11	Final Hardscape Design	LS	0		0	0	0	0	Not Applicable	

25.12	Landscape Quantities for EQ Report	LS	0	Mid	0	0	0	0	0	Not Applicable
25.13	Cost Estimates	Engineer Estimate	1	Mid	5	0	5	0	0	Prepare one (1) final cost estimate for the receiving sites to be included with relocation plan submittals.
	LRE Updates		0	Mid	0	0	0	0	0	Not Applicable
25.14	Technical or Modified Special Provisions	TSPs & MSPs	2		12	0	12	0	0	One (1) minor modification to existing TSPs and MSPs for plant relocation only.
25.15	Other Landscape Services	LS			64	0	64	0	0	Inclusion of a design layout plan for coordination with County and other stakeholders regarding potential receiving site areas and to provide a design that reasonably presents a unified design/appearance. (24 hrs). Preparation of up to (1) color plan exhibit depicting proposed landscape design/layout (40 hrs).
Landscape Analysis Technical Subtotal					540	0	441	0	0	
25.16	Quality Assurance/Quality Control	LS	1	5%	27	0	23	0	0	
25.17	Supervision	LS	1	5%	27	0	23	0	0	
25.18	Landscape Meetings (listed below)	Meetings	10		20	0	20	0	0	Includes coordination meetings with other disciplines (Permit preparation and application; Utilities; Traffic Control; Architecture; Roadway; Structures; Drainage; Lighting; ITS)
	Travel Time				8	0	8	0	0	
25.19	Field Reviews (listed below)	LS			96	0	96	0	0	Includes travel time for trips to field to obtain data necessary for design. Included for planting, irrigation, and landscape design. Based on number of staff per field review X (length of time (hours) on site per staff per field review + travel time (hours) per staff per field review).
Landscape Analysis Non-Technical Subtotal					178	0	170	0	0	
25.20	Coordination	LS	1	3%	22	0	19	0	0	Includes all efforts to coordinate internally with survey, geotechnical, drainage, structures, lighting, roadway, signals, utilities, rail road, permits, schedules, specifications, bicycle/pedestrian/transit, landscape architecture, traffic operations, and other Department offices to produce a final set of construction documents.
Landscape Analysis Total					740	0	630	0	0	

26. Landscape Plans

Estimator:		26. Landscape Plans Staff Hours							Vanellian Causeway - Landscape Services 4/22/13-2-32-01	
Representing		Print Name					Signature / Date			
FDOT District										
Stanec		Kevin G. Mangan, PLA								
NOTE: Signature Block is optional, per District preference										
Task No.	Task	Project Parameter			Staff Hours			Documentation		
		Description	Units	Complexity	Calculated	Department	Consultant		Negotiated	
What is the complexity of the planting plan? (See Landscape Guidelines)										
26.1	Key Sheet	LS	1		4	0	4	0	Includes creating and delivering the Key Sheet & Signature Sheet.	
	Signature Sheet	LS	1		2	0	2	0		Includes creating and delivering the Key Sheet & Signature Sheet.
26.2	Plant Schedule (Sheet no longer produced)									
26.3	General Notes/Pay Item Notes	LS	1	Standard	9	0	8	0	Includes creating and delivering the General and Pay Item Notes Sheet.	
26.4	Planting Plans For Linear Areas	Linear Project Length (Miles)	2.67	Low	38	0	36	0	Includes creating and delivering the Donor Site Disposition Plans and proposed Planting Plans and Tabulation Sheets for Linear Areas at the receiving sites.	
26.5	Planting Plans for Non-Linear Areas (Stormwater Facilities, Rest Areas, Interchanges, & Toll Plazas)	Area Projects Area (Acre)	0.00	Low	0	0	0	0		Not Applicable
26.6	Planting Details	Details	0		0	0	0	0	Not Applicable	
26.7	Irrigation Plans for Linear Areas	Linear Project Length (Miles)	0.00		0	0	0	0	Not Applicable	
26.8	Irrigation Plans for Non-Linear Areas (Stormwater Facilities, Rest Areas, Interchanges, & Toll Plazas)	Area Projects Area (Acre)	0.00		0	0	0	0	Not Applicable	
26.9	Irrigation Details	Details	0		0	0	0	0	Not Applicable	
26.10	Hardscape Plans		0		0	0	0	0	Not Applicable	
26.11	Maintenance Plan		0		0	0	0	0	Not Applicable	
Landscape Plans Technical Hours Subtotal					53	0	50	0		
26.12	Quality Assurance/Quality Control	%	1	5%	3	0	3	0		
26.13	Supervision	%	1	5%	3	0	3	0		
26. Landscape Plans Total					59	0	56	0		

CONCH SURVEY – STANTEC

Project Information Sheet

Financial Project Identification Number: 422713-2-32-01

Federal Aid Project Identification Number:

Name of Prime / Subconsultant: Stanlec Consulting Services Inc.

County: Miami Dade County

Project Description: Venetian Causeway Bridge - Final Design Amendment for Queen Conch Survey

Begin Milepost:

End Milepost:

Project Length: Miles

Typical Section: (Urban / Rural / Int.)

Lane Configuration: (Divided / Undivided)

Number of Lanes: (Minor / Major)

Access Management Classification:

Roadway Classification: (NHS/FHS/OF S/s)

Project Type:

TCP Level:

Survey Level:

CAP Level:

Design Exceptions: 1. 2. 3. 4. 5.

Design Variations: 1. 2. 3. 4. 5.

Proposed Design Contract Time: months/days

Date of Negotiation:

Project Activity:	Estimated By:		Negotiated By: (name - firm)	
	Consultant	FDOT	Consultant	FDOT
3. Project Common & Project General Tasks	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
4. Roadway Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
5. Roadway Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
6a. Drainage Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
6b. Drainage Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
7. Utilities	Stanlec	Enter name & office	Enter name & firm	Enter name & office
8. Environmental Permits	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
9. Structures Summary	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
10. Structures - Bridge Development Report	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
11. Structures - Temporary Bridge	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
12. Structures - Short Span Concrete	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
13. Structures - Medium Span Concrete	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
14. Structures - Structural Steel	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
15. Structures - Segmental Concrete	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
16. Structures - Movable Span	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
17. Structures - Retaining Walls	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
18. Structures - Miscellaneous	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
19. Signing and Pavement Marking Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
20. Signing and Pavement Marking Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
21. Signalization Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
22. Signalization Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
23. Lighting Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
24. Lighting Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
25. Landscape Architecture Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
26. Landscape Architecture Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
27. Survey	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
28. Photogrammetry	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
29. Mapping	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
30. Terrestrial Mobile LIDAR	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
31. Architecture Development	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
32. Noise Barriers Impact Design Assessment	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
33. Intelligent Transportation Systems Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
34. Intelligent Transportation Systems Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
35. Geotechnical	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office

Project Staff Hour Summary

Name of Consultant:

0

useway Bridge - Final Design Amendment for Queen Conch Survey
4227132-32-01

Activity No.	Activity	Project Staff Hours													
		Enter Firm Name	Enter Name Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8	Sub 9	Sub 10	Sub 11	Sub 12	Total Hours
3	Project Common and General Tasks	0													0
4	Roadway Analysis	0													0
5	Roadway Plans	0													0
6a	Drainage Analysis	0													0
6b	Drainage Plans	0													0
7	Utilities	0													0
8	Env. Permits, Compliance & Clearances	892													892
9	Structures - Summary, Misc. Tasks, Dwgs.	0													0
10	BDR	0													0
11	Temporary Bridge	0													0
12	Short Span Concrete Bridge	0													0
13	Medium Span Concrete Bridge	0													0
14	Structural Steel Bridge	0													0
15	Segmental Concrete Bridge	0													0
16	Movable Span	0													0
17	Retaining Walls	0													0
18	Miscellaneous Structures	0													0
19	Signing & Pavement Marking Analysis	0													0
20	Signing & Pavement Marking Plans	0													0
21	Signalization Analysis	0													0
22	Signalization Plans	0													0
23	Lighting Analysis	0													0
24	Lighting Plans	0													0
25	Landscape Architecture Analysis	0													0
26	Landscape Architecture Plans	0													0
27	Survey - Field and Office Support	0													0
28	Photogrammetry	0													0
29	Mapping	0													0
30	Terrestrial Mobile LIDAR	0													0
31	Architecture Development	0													0
32	Noise Barriers Impact Design Assessment	0													0
33	ITS Analysis	0													0
34	ITS Plans	0													0
35	Geotechnical	0													0
Project Total		892	0	0	0	0	0	0	0	0	0	0	0	0	892
27	Survey Field Crew Days	0													0

- Notes:
1. Staff hours for prime consultant come directly from each discipline's worksheet.
 2. Staff hours for subconsultants are to be entered manually into columns D through O.
 3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

Financial Project Number: 422713-2-32-01
FAP Number: 0

Project Name: Venetian Causeway Bridge - Final Design
Date: 11/11/2024
Name of Consultant: Stantec Consulting Services Inc.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

WORK ACTIVITY	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD PERCENT	
	Hours from Summary Sheet		Chief Scientist	Senior Specialist	Senior Scientist	Environmental Specialist	Scientist	Clerical	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12		RANGE
	Firm Total	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, Compliance & Clearances	892	18	0	0	27	491	357	0	0	0	0	0	0	0	893	982
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	892	18	0	0	27	491	357	0	0	0	0	0	0	0	893	982

Notes:

1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 63 to 96 of this sheet.
3. Total Staff hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

Field Survey Estimate:

0 4-man crew days

FIRM TOTAL

893

982

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:

422713-2-32-01

FAP Number:

0

Date:

11/1/2024

Name of Consultant:

Stantec Consulting Services Inc.

Project Name Venetian Causeway Bridge - Final Design

Staff Hour Distribution Percentages - Firm Total														
	Hours from Summary Sheet Firm Total	Chief Scientist	Senior Specialist	Senior Scientist	Environment- al Specialist	Scientist	Clerical	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	Total
3. Project General and Project Common Tasks	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
4. Roadway Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
5. Roadway Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6a. Drainage Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6b. Drainage Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
8. Environmental Permits, Compliance & Clearances	892	2.0%	0.0%	3.0%	55.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
9. Structures - Misc. Tasks, Dwg. Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LIDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:
County:
FPN:
FAP No.:

Venetian Causeway Bridge - Final Design Amendment for Queen Conch Survey
Miami Dade County
422713-2-32-01
1/0/1900

Consultant Name:
Consultant No.:
Date:

Stanlec Consulting Services Inc.
enter consultants proj. number
11/1/2024

Estimator:

Insert name

Staff Classification	Total Staff Hour from "SH Summary Form"	Chief Scientist	Senior Specialist	Senior Scientist	Environmentl al Specialist	Scientist	Clerical	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	SH Activity	Salary Cost By Activity	Average Rate Per Task
		\$81.25	\$60.32	\$57.63	\$34.77	\$24.30	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
8. Environmental Permits, Compliance & Clearances	892	18	0	27	491	357	0	0	0	0	0	0	0	893	\$28,766	\$32.21
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
16. Structures - Moveable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DV/0/1
Total Staff Hours	892	18	0	27	491	357	0	0	0	0	0	0	0	893	\$28,765.68	\$32.21
Total Staff Cost		\$1,462.50	\$0.00	\$1,556.01	\$17,072.07	\$8,675.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			

Notes:
1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:																
OVERHEAD:																\$28,765.68
OPERATING MARGIN:																\$47,802.81
FOCM (Facilities Capital Cost Money):																\$9,205.02
EXPENSES:																\$181.22
CDAF																\$4,691.68
SUBTOTAL ESTIMATED FEE:																\$2,629.15
Survey (Field)	0															\$0.00
Geotechnical Field and Lab Testing																\$0.00
SUBTOTAL ESTIMATED FEE:																\$93,275.56
REIMBURSABLE EXPENSES*																\$20,800.00
GRAND TOTAL ESTIMATED FEE:																\$114,075.56

Project Activity 8. Environmental Permits

Estimator: Nicole Carter/Stantec

Venetian Causeway
422713-2-32-01

Representing	Print Name	Signature / Date
Miami Dade County		
(EAC prime) Stantec	Nicole Carter	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
Environmental Permits, Compliances and Clearances						
8.1	Preliminary Project Research	LS	1	0	0	
Permits						
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	
8.2.3	Species Surveys	LS	1	892	892	Surveys for presence/absence of queen conch during geotechnical activities for Bridges 2-13 (including the temporary bridge) in accordance with the USACE permit conditions. It is anticipated that a weekly survey covering a 154m radius around each bridge will be conducted for the duration of drilling activities in the water. Based on the workplan discussed with Geosol and Nova, both firms will each deploy one rig at a time with 2 active work zones each week. Therefore Stantec will review at least 2 bridges during each weekly survey. Assuming 3 days to complete per boring (SPT and rock core), we have assumed a total of 26 weekly surveys beginning 11/4/24 and 5 additional surveys for weather/equipment or other unforeseen delay. We assume 3 staff x 8hrs/ day for each survey plus field preparation time and coordination with the driller to determine the weekly activities. Also included are GIS activities to organize data, coordination with agency and County staff as needed throughout the survey period. This time also includes preparation of a final report documenting survey results. We anticipate weekly surveys between early November 2024 and early May 2025.
8.2.4	Archeological Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	0	0	
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1		0	
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Prepare Dredge and Fill Sketches (as needed)	LS	1	0	0	
8.6	Prepare USCG Permit Sketches	LS	1		0	
8.7	Prepare Water Management District Right-of-Way Occupancy Permit	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare Tree Permit Information	LS	1		0	
8.10	Mitigation Design	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	0	0	
8.12	Other Environmental Permits	LS	1		0	
Environmental Clearances/Reevaluations						
8.13	Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)					
8.13.1	NEPA or SER Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Features	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat	LS	1	0	0	
8.13.5	Wildlife and Habitat Impact Analysis	LS	1	0	0	
8.13.6	Section 7 or Section 10 Consultation	LS	1	0	0	
8.14	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
8.14.1	NEPA or SER Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Features	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat	LS	1	0	0	
8.14.5	Wildlife and Habitat Impact Analysis	LS	1	0	0	
8.14.6	Section 7 or Section 10 Consultation	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
Environmental Permits, Compliance, and Clearances/Reevaluations Technical Subtotal					892	
8.17	Technical Meetings	LS	1	0	0	
8.18	Quality Assurance/Quality Control	LS	%	0%	0	
8.19	Supervision	LS	%	0%	0	
Environmental Permits, Compliance and Clearances Nontechnical Subtotal					0	
8.20	Coordination	LS	%	0%	0	
8. Environmental Permits, Compliance and Clearances Total					892	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
WMD	EA	0	0	0	no	1
NMFS	EA	0	0	0	no	0
USACE	EA	0	0	0	no	1
USCG	EA	0	0	0	no	1
USFWS	EA	0	0	0	no	0
FFWCC	EA	0	0	0	no	0
FDOT	EA	0	0	0	no	1
Other Meetings (DERM)	EA	0	0	0	no	0
Subtotal Technical Meetings				0	Subtotal Project Manager Meetings	4
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	--
Total Meetings				0	Total Project Manager Meetings (carries to Tab 3)	4

Carries to 8.18

Carries to Tab 3

WASD FORCEMAIN - EAC



August 20, 2024
Revised November 18, 2024

Gabriel Delgado, P.E, PMP
Project Manager
Highway Bridge Engineering
Miami-Dade Department of Transportation and Public Works
701 N.W. 1st Court, Suite 1500, Miami FL 33136

Re: Contract No.: C9620 / PW Project No.: 20210011 / EAC Project No.: 21039.PD01-01
Venetian Causeway Bridge Replacement Final Design
Bridge 2 (874460) – 6-inch Force Main Removal and Replacement

Dear Mr. Delgado:

Pursuant to Miami-Dade Water and Sewer Department's (MD-WASD) request, EAC Consulting, Inc (EAC) respectfully submits the attached scope and fee proposal to undertake the requisite services to complete the engineering design, jurisdictional permitting/approvals, limited bid/procurement support services and post design services for the proposed replacement 6-inch diameter force main pipeline.

Our services on this Task Order will be supported by sub consultants as follows:

- **Manny Vera & Associates Inc. (MGV)** for Topography Surveying & Mapping and Bathymetry Surveying. Please refer to the attached Scope and Fee proposal from MGV.
- **Geosol (GEOS) (Miami Dade County ISD Certified SBE)** for geotechnical engineering services. Please refer to the attached Scope and Fee proposal from GEOS.

Please note that it is our understanding that Environmental, Roadways Plans, Maintenance of Traffic and related Studies and/or Assessments, are not required for this Task.

For any questions or clarifications regarding the scope of services, schedule or estimated project fees, please feel free to contact me at (305) 265-5400 or by e-mail at egarces@eacconsult.com.

Sincerely,

EAC Consulting, Inc

A handwritten signature in blue ink, appearing to read "Eduardo A. Garces", is written over a horizontal line.

Eduardo A. Garces, P.E., PMP, ENV SP
Project Manager

Encl. (5): Attachment 1 – Summary Proposal Sheet
Attachment 2 – Scope of Services
Attachment 3 – Level of Effort (LOE) / Fee Estimate Tabulation
Attachment 4 – EAC Consulting, Inc Truth in Negotiation Certification
Attachment 5 – Project Role Form
Attachment 6 – Wage Letter Certification
Attachment 7 – Anticipated Project Schedule
Attachment 8 – Sub Consultants Fee Proposals

Cc: Huntley Higgins, P.E. (EAC), File

ATTACHMENT 1
Summary Proposal Sheet



SUMMARY PROPOSAL SHEET

SCOPE OF SERVICES

The Scope of Services for this project is to provide engineering services to the Miami-Dade Water and Sewer Department for the installation of a replacement 6-inch force main along Venetian Causeway Bridge #2 (Bridge No. 874460).

The services covered under this Task Authorization Includes field investigations, topographic surveys, engineering design, development of construction documents (plans & specifications), permitting & jurisdictional approvals, support services during procurement and post design services. See detail **Attachment 2** for additional details.

SCHEDULE

A detailed design and construction schedule is included in **Attachment 5**. Our schedule includes the following milestones shown below:

Task No.	Description	Anticipated Completion Date
1.0	Field Investigations and Data Collection	01/17/2025
2.1	30% Design	01/20/2024
2.2	90% Design	02/14/2025
3.0	Permitting & Jurisdictional Approvals	10/07/2025
4.0	100% Design	10/15/2025

* Assumes Notice to Proceed (NTP) is issued on 09/09/2024

DELIVERABLES

Construction plans, technical specifications, permits, an Opinion of Probable Construction Costs (OPCC) and Bid Form.

FEE SCHEDULE

A detailed fee schedule is included in **Attachment 3**.

Task No.	Description	Total Fee
1.1	Topography Surveying & Mapping Engineering Services (LS)	\$4,273.73
1.2	Geotechnical Investigations Engineering Services (LS)	\$5,826.59
1.3	Field Reconnaissance Visits, Data Collection and Review(LS)	\$1,294.67
1.4	Subsurface Utility Engineering (SUE) / Engineering Services (LS)	\$5,324.77
2.1	30% Design (LS)	\$31,615.04
2.2	90% Design (LS)	\$52,599.70
3.1	Permitting & Jurisdictional Approvals (LS)	\$10,795.62
4.1	100% Bid Set (Issue for Bid) (LS)	\$10,911.22
5.1	Bid and Procurement Support Services	Not Included in SOW
5.2	Technical Support During Bid & Procurement (T&M)	\$20,522.78
5.3	Issue for Construction (IFC) Documents	Not Included in SOW
6.1	Construction Engineering Support (T&M)	\$39,435.59
EAC Subtotal		\$182,139.32
Topography & Bathymetric Surveying (MGV)		\$28,650.80
Utility Locates (MGV)		\$9,237.14
Geotechnical Services		\$19,987.84
Labor Fees Subtotal		\$240,015.10
Reimbursable Expenses (NTE)		\$0.00
Grand Total		\$240,015.10

COMPENSATION

Our Engineering Fees will be **as shown above**. In accordance with the department's processes, any additional work in excess of the authorized amount will warrant a task revision. No work will be undertaken without an approved task revision. Lastly, monthly invoicing is required as stated in the contract.

ANTICIPATED REVISIONS

Not Applicable.

ATTACHMENT 2
Scope of Services



VENETIAN CAUSEWAY BRIDGE REPLACEMENT FINAL DESIGN
Miami-Dade County Department of Transportation and Public Works (MD-DTPW)

Contract No: C9620
PW Project No. 20210011
EAC Project No. 21039.WW01-01

BRIDGE #2 – 6-INCH FORCE MAIN REMOVAL AND REPLACEMENT

Owner:

Miami Dade Water & Sewer Department
Utility Pipeline Engineering & Construction Division
3575 South LeJeune Road
Miami, FL 33146

October 14, 2024

MDC053

DEFINITIONS AND ACRONYMS

BMWS	Business Management Workforce System
CLIENT	Miami Dade County Department of Transportation and Public Works
DIPRA	Ductile Iron Pipe Research Association
EAC	EAC Consulting, Inc and its sub-consultants
FDOT	Florida Department of Transportation
IFB	Issued For Bid
IFC	Issued For Construction
IFP	Issued For Permit
HDD	Horizontal Directional Drill
MD-DPTW	Miami-Dade County Department of Transportation and Public Works
MD-RER	Miami-Dade County Department Regulatory and Economic Resources
MD-WASD	Miami-Dade County Water and Sewer Department
NTP	Notice to Proceed
PMP	Project Management Plan
PSA	Professional Services Agreement
UAO	Utility Agency Owner
USACE	USA Army Corps of Engineers

BACKGROUND AND PROJECT UNDERSTANDING

This project involves the design and preparation of construction documents for the removal of the existing 6-inch force main affixed to Venetian Causeway Bridge #2 (Bridge No. 874460) and the installation of a subaqueous replacement via HDD. Figure 1 below illustrates the project limits and graphical alignment of the proposed replacement 6-inch force main. The replacement pipe is anticipated to be a High-Density Polyethylene (HDPE) pipe, with a 6-inch internal diameter (DR 11), extending approximately 900 linear feet (LF).



Figure 1 - Conceptual 6" FM alignment

The scope of work will be performed in accordance with the PSA No. C9620 executed between Miami Dade County and EAC Consulting, Inc dated July 28, 2022.

The scope of work to be performed by EAC includes the following tasks.

- 1) Field Investigations and Data Collection
 - a) Surveying & Mapping
 - b) Geotechnical Investigations
 - c) Field Reconnaissance, Data Collection and Review
 - d) Subsurface Utility Engineering (SUE)
- 2) Development of Design Documents
- 3) Permitting & Jurisdictional Approvals
- 4) 100% Design – Bid Set
- 5) Bid & Procurement Services
- 6) Post Design Services

SCOPE OF WORK (SOW)

Task 1 – Field Investigations and Data Collection

EAC shall perform services to coordinate and gather relevant field information such as data to be utilized for engineering design and the development of construction plans and technical specifications. Included in this task are EAC's efforts to perform all site reconnaissance, field reviews, data gathering and organization necessary to support the development of design.

Task 1.1 – Engineering Services: Topography and Bathymetric Surveying & Mapping

EAC shall coordinate the services of the project team's surveyor, MGV, which will be responsible for providing topography and bathymetric survey and mapping services. Refer to the attached Scope and Fee proposal from MGV for additional details. EAC shall review the completed survey and provide a copy for the review and approval of the MD-WASD surveying section.

Please note that MD-WASD shall provide EAC with a current list of surveying requirements prior to the commencement of the surveying activities.

Deliverables:

- 1) Topography Survey
- 2) Bathymetric Survey

Task 1.2 – Engineering Services: Geotechnical Engineering & Investigations Coordination

EAC shall coordinate the services of the project team's geotechnical engineering firm, GEOS, which will be responsible for providing geotechnical engineering services. Please refer to the attached Scope and Fee proposal from GEOS for additional details. EAC shall review the completed geotechnical engineering report and forward to MD-WASD for acceptance.

Deliverables:

- 1) Geotechnical Engineering Report

Task 1.3 – Field Reconnaissance and Data Collection Review

EAC shall perform field reconnaissance to become familiarized with the site and identify any constraints that may impede construction. EAC will request as-built records and other existing information, research permit records, undertake all due diligence activities and investigative efforts to retrieve and compile existing conditions information.

Specifically, EAC shall:

- 1) Perform one (1) site visit to the project site
- 2) Request and review as-built records
- 3) Contact utilities identified by Sunshine One Call
- 4) Request information on any planned utilities Planned Utilities from UAOs (within the corridor)
- 5) Request Planned Projects list / description (for upcoming projects within the corridor) from MD-DTPW and adjacent municipalities.
- 6) Meet with permitting agencies to ascertain and establish their concerns and expectations for the

project

Deliverables:

- 1) Preliminary list of permitting agencies
- 2) Preliminary list of utilities agencies within the project corridor
- 3) Project corridor picture records
- 4) PDF Electronic Files of all retrieved as-built information

Task 1.4 – Subsurface Utility Engineering (SUE) coordination

EAC shall coordinate the services of the project team's utility locating firm, MGV, which will be responsible for providing up to 10 Quality Level A Locates. Please refer to the attached Scope and Fee proposal from MGV for additional details. EAC shall review the completed utility locate report and forward to MD-WASD for acceptance.

Deliverables:

- 1) Utility locate report

Task 2 – Engineering Design Services

Task 2.1 – 30% Design Services

EAC shall undertake the 30% Design Services and prepare the 30% Design submittal & deliverables following established County guidelines and standards. The 30% Design shall be predicated on the recommendations of the Route Analysis effort and shall include a representation of the horizontal alignment of the proposed 6-inch pipeline overlaid on the topography survey base. The base survey shall include all pertinent survey data in addition to a horizontal projection of all existing utilities gathered during the Data Collection task.

EAC's 30% Design services shall encompass:

- 1) 30% Design Kick Off Meeting
- 2) Provide Design Calculations / Design Report (if applicable)
- 3) Perform Field Visits / Reviews
 - a) Documentation of Field Conditions
- 4) Ongoing Utility Coordination Efforts
- 5) Identification of Permit Requirements / Development of Permit Coordination Matrix
- 6) Initiate contacts with permitting agencies, including pre application meeting with MD-DTPW and MD-WASD.
- 7) Development of Design Drawings (Schematic Level)
 - a) General Project Information Sheets
 - i) General Notes
 - ii) SWPPP Notes and Details
 - iii) Horizontal Control Plan Sheets
 - iv) Existing Conditions Plans Sheets
 - b) Pipeline Alignment Plan Sheets
- 8) Recording of Correspondences between EAC, County and other affected interests
- 9) Opinion of Probable Construction Costs

- 10) Design Schedule
- 11) Develop Preliminary List of Permitting Agencies and Contact Persons

Deliverables:

- 1) 30% Design (Schematic) Plans
- 2) Preliminary Design Calculations Report
- 3) Approvals / Permit Status Log
- 4) Updated Project Design Schedule
- 5) Opinion of Probable Construction Costs reflecting 30% Design progress

Task 2.3 – 90% Design Services

EAC shall continue to the Development of Design phase by reviewing, responding, and implementing the comments received at the 30% Design phase. EAC shall perform the 90% Design Services requirements and prepare the 90% Design submittal & deliverables following established County guidelines and standards. The 90% Design shall reflect the horizontal alignment and vertical profile of the proposed 6-inch pipeline overlaid on the topography survey base horizontally and vertically. The profile of the proposed 6-inch pipeline will be updated to reflect the results of the SUE activities, resolving conflicts, and allowing for successful installation.

The 90% Design deliverable would serve as the permit set and will be considered the “Issued for Permitting (IFP)” set.

EAC’s 90% Design services shall encompass:

- 1) Lead 90% Design Kick Off Meeting
- 2) Update Design Calculations / Design Report (where applicable)
- 3) Perform Supplemental Field Visits / Reviews
 - a) Documentation of Updated Field Conditions and impacts to work completed to date
- 4) Ongoing Utility Coordination Efforts
 - Update Permit Coordination Matrix
 - a) Ongoing Coordination with Permitting Jurisdictions
 - SUE / Soft Dig Locates Coordination
- 5) Develop Design Drawings (90% Design Development)
 - a) General Project Sheets
 - i) General Notes
 - ii) SWPPP Notes and Details
 - iii) Horizontal Control Plan Sheets
 - iv) Existing Conditions Plans Sheets
 - b) Pipeline Alignment Plan and Layout Sheets
 - i) Plan & Profile Sheets
 - ii) Special Details Sheets
 - c) Roadway Pavement Demolition Layout Plan Sheets
 - d) Roadway Pavement Restoration Plan Sheets, Sections and Details. Includes any pavement design needs required by responsible jurisdictions.
 - e) Pavement Marking Plan Sheets
- 6) Identification of Tree Removal Needs
- 7) Development Construction Specifications / Special Provisions

- a) Technical Specifications
- b) Special Provisions
- 8) Recording Correspondences between EAC, County and other affected interests
- 9) Update Opinion of Probable Construction Costs reflecting 90% Design progress
 - Update Design Schedule
 - Updated List of Permitting Agencies / Stakeholder Requirements

Deliverables:

- 1) 90% Design (IFP) Plans
- 2) Updated Design Calculations Report
- 3) Approvals / Permit Status Log
- 4) Updated Project Design Schedule
- 5) Updated Opinion of Probable Construction Costs
- 6) Updated Technical Specifications

Task 3 – Permitting and Jurisdictional Approvals

Utilizing the permit contacts and log developed as part of the Design Development phase, EAC shall coordinate with each respective jurisdiction directly to ensure that the plan reviews and approvals occur expeditiously. The permit log shall include the costs of securing approvals. These costs or permit fees shall be paid by MD-DPTW.

Task 3.1 – Permitting and Jurisdictional Approvals

EAC shall coordinate the process of submitting plans for dry run and final reviews of permitting agencies. During this process, it is anticipated that it may be necessary to set up pre-permit application meetings with some of these jurisdictions. EAC shall arrange and attend these meetings and will invite MD-DTPW as needed

For the purposes of this scope of services document, EAC has determined that the following jurisdictions will require review of the design plans:

- 1) Miami Dade County Department of Regulatory and Economic Resources (MD-RER)
 - a) Sewer Extension Permit
 - b) Class III Permit
- 2) US Army Corps of Engineers (USACE)
 - a) Right of Way Permit

It is assumed that the permits the USACE right-of-way and MD-RER Class II permits being procured as part of the Venetian Bridge Replacement Project will be expanded to include the proposed work under this contract.

Deliverables:

- 1) Meeting Agenda / Summaries with All Agencies
- 2) Permitting Agencies RFI Log
- 3) Updated 90% Design (IFP) Plans
- 4) Approvals / Permit Status Log

Task 4 – Final Design Services

EAC shall reassemble the plans set based on all approvals from the permitting and jurisdictional agencies.

Task 4.1 – Final Bid Set Drawings

EAC shall provide signed and sealed copies of the drawings, specifications and special provisions to MD-DPTW to be used during the bidding process. No changes are anticipated to the 100% Design set, unless otherwise requested by MD-DPTW. If made, EAC shall determine if the request constitutes a deviation from the permit set and if permitting needs to be re-undertaken. Furthermore, EAC shall determine if the deviation constitutes a redesign or a design amendment. In both cases, EAC shall coordinate with MD-DPTW to provide approval for amendment services.

Deliverables:

- 1) 100% Design (IFB) Plans
- 1) Final Technical Specifications
- 2) Final Special Provisions
- 3) Updated Opinion of Probable Construction Costs

Task 5 – Bid & Procurement Support Services

EAC shall offer limited support services to MD-DPTW during the procurement phase of the project.

Task 5.1 – Bid Document Compilation

It is assumed that this project is part of a much larger construction project. This task and related activities will be completed by the County's consultant in charge of said project. The task related to this activity include preparing a complete bid package, including the contract plans, specifications, and special provisions including general information / description of the work, special bidders' qualifications, clarification of work / discipline trades on the project, supplemental conditions, staging areas and other miscellaneous processes or supporting documentation needed to assemble a complete Bid Package.

Task 5.2 – Technical Support During Bid & Procurement

EAC shall continue ongoing support to MD-DPTW during the bid and procurement phase by making staff available to the County to serve as a technical resource. Our project personnel would attend a pre-bid meeting and provide needed technical assistance to the County to describe technical details to prospective bidders. EAC's technical support services during procurement includes the following specific tasks:

- 1) Attendance at Pre-Bid Meeting with MD-DPTW and the County (One Pre-Bid Meeting)
- 2) Respond to Bidders Inquiries and Requests for Clarification (Assumes 3 RFIs)
- 3) Assist with developing Addenda, as necessary (Assumes 3 Addenda)
- 4) Respond to MD-DPTW on prospective Bidders Qualifications and Experience after submittal of Bids. EAC shall not engage in services to verify Bidders experience or references.
- 5) Review submitted bids for irregularities as it pertains to the proposed work under this contract.
- 6) Issue Concurrence Memo for selected bidder

Deliverables:

- 1) Pre-Bid RFI Log with Responses to Questions
- 2) Bid Package Addenda (Contract Plans, Specifications & Special Provisions)
- 3) Concurrence Memorandum for selected bidder

Task 5.3 – Issue for Construction (IFC) Documents

It is assumed that this project is part of a much larger construction project. This task and related activities will be completed by the County's consultant in charge of said project. The task related to this activity include compilation all Addenda issued during the bid procurement phase and develop a set of conformed bid documents comprising Contract Plans, Technical Specifications and Special Provisions. The conformed bid set shall be the project's "Issue for Construction (IFC)" Documents.

Task 6 – Post Design Services

Task 6.1 – Construction Engineering Support

EAC shall offer limited scope of construction administration services with the goal of providing EAC with sufficient involvement during the construction period to facilitate engineering certification services, including shop drawing review, permit clearance, and certification for the project. To achieve this, the following tasks are being proposed:

- 1) EAC shall attend and participate in two (2) monthly construction progress meetings
- 2) EAC shall review and approve shop drawing submittals (up to 5 shop drawings)
- 3) EAC shall review and respond to RFIs (up to 3 RFIs)
- 4) EAC shall maintain a shop drawing and RFI log
- 5) EAC shall visit the site on a weekly basis to verify that the construction is proceeding in substantial conformance with the permitted plans and prepare field reports (based on 2-months)
- 6) EAC shall perform specialty site visits to witness field testing and prepare field report (up to 2 site visits).
- 7) EAC shall perform a final verification walk-through, once the County or its representative has made the determination that the contractor has achieved final completion.
- 8) EAC shall review certified as-builts prepared by a surveyor and mapper that is licensed to practice in the State of Florida and submitted by the Contractor. EAC shall provide comments as necessary until the as-builts are in an acceptable form.
- 9) EAC shall prepare record drawings based on certified as-builts.
- 10) EAC shall close-out existing design related permits.
- 11) EAC shall issue the County with a Certificate of Completion upon the completion of construction.

This task assumes a construction period for the scope described in this Task Order Authorization to not exceed 120 days.

ASSUMPTIONS RELATING TO THE SCOPE OF WORK

1) **Electronic Deliverables**

All deliverables will be provided electronically in PDF format. Additional file formats (e.g., AutoCAD or AutoCAD Civil 3D) will be supplied upon request. Hard copies will be provided if explicitly requested by MD-DPTW.

2) **Quality Assurance and Standards Compliance**

EAC will implement an internal Quality Assurance/Quality Control (QA/QC) process to ensure that the design adheres to MD-DPTW & MD-WASD applicable standards. The latest MD-DPTW and MD-WASD standard forms, contracts, and design criteria will be used.

3) **Client Review and Approval Process**

At each design milestone, MD-DPTW will review the submitted plans and provide consolidated comments within the timeframe specified in the project schedule. Any deviation from the assumed approved project schedule will necessitate a project schedule revision.

4) **Scope Limitations for Design Amendments**

Any requested changes to the 100% design that constitute deviations from the permitted set will be evaluated to determine if they require a design amendment or redesign. Permitting requirements for such changes will be confirmed with MD-DPTW.

5) **Permitting and Review Timelines**

EAC will make every effort to expedite the design process and address any review comments in a timely manner. However, EAC cannot guarantee agency review timelines or the duration of permit approvals.

6) **Permitting Fees**

All permit fees and associated costs for securing approvals will be covered by MD-DPTW. EAC will not be responsible for payment of any permit fees.

7) **As-Built Information**

The scope assumes MD-DPTW will provide available as-built record plans. EAC shall contact other utilities as necessary for as-built information, which may or may not be provided. EAC will rely on this information for design purposes. If discrepancies are found during the field investigation, EAC will employ best engineering judgment or recommend subsurface exploratory methods as necessary.

8) **Construction Administration Services**

EAC's scope does not include full construction administration services. Limited construction support services will be provided as outlined in Task 6. Any additional services would require a separate authorization.

9) **Construction Period Assumptions**

The assumed construction period for the described scope is 120 days. Any extension to this

timeline may require adjustments to the scope or additional services.

10) Utility and Infrastructure Improvement Limitations

The scope does not include upgrades, repairs, or design services for stormwater systems, potable water infrastructure, or sanitary sewer systems, except for the specified 6-inch force main replacement.

11) Private Property Improvements Exclusion

The scope of work does not include improvements or work related to private property. All design services will be limited to public right-of-way or county-owned property.

12) Utility Coordination Exclusions

The scope does not include coordination or relocation services for above-ground utilities such as electrical lines (FP&L) or communication cables. Any utility relocations will be addressed separately.

13) Geotechnical and SUE Services Exclusion

MD-DPTW is responsible for procuring geotechnical, and Subsurface Utility Engineering (SUE). EAC will coordinate with these consultants as needed.

14) Environmental Services Exclusion

The project scope does not include environmental permitting, wetland studies, contamination assessments, or Environmental Site Assessments (ESAs). Such services would require separate authorization.

15) Hydraulic Analyses Exclusion

The scope of work does not include conducting any kind of hydraulic modeling and analyses.

16) Signalization and Traffic Improvements Exclusion

The scope of work does not include preparing Signalization Plans or other Traffic Improvements Plans.

17) Landscape and other related services Exclusion

The scope of work does not include Landscape Architecture, Arborist or Tree Relocation design services, irrigation relocation or modification.

18) Traffic Control Plans Exclusion

The scope of work does not include preparing Maintenance of Traffic (MOT) plans. It is assumed that MOT for the bridge replacement will incorporate the work done under this proposal.

ATTACHMENT 3
Level of Effort (LOE) / Fee Estimate Tabulation

Level of Effort (LOE)
BRIDGE #2 – 6-INCH FORCE MAIN REMOVAL AND REPLACEMENT



Company	Labor Category	Hourly Rate	Labor Multiplier	Task 1								Task 2			
				Field Investigations and Data Collection								Engineering Design Services			
				Task 1.1 Topography Surveying & Mapping / Engineering Services		Task 1.2 Geotechnical Investigation Services		Task 1.3 Field Reconnaissance Visits, Data Collection, Review		Task 1.4 Subsurface Utility Engineering (SUE) / Engineering Services		Task 2.1 30% Design Services		Task 2.2 90% Design Services	
Hrs	%	\$	Hrs	%	\$	Hrs	%	\$	Hrs	%	\$	Hrs	%	\$	\$
EAC	Chief Engineer 2	\$109.00	311.07%	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	16	5%	\$5,425.06
EAC	Project Manager	\$85.29	311.07%	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	12	6%	\$3,183.74
EAC	Senior Engineer	\$77.33	311.07%	2	6%	\$481.10	8	22%	\$1,924.40	4	10%	\$962.20	1	10%	\$240.55
EAC	Engineer	\$42.87	311.07%	6	18%	\$800.13	12	33%	\$1,600.27	12	30%	\$1,600.27	1	10%	\$133.36
EAC	Designer	\$37.00	311.07%	26	76%	\$2,922.49	16	44%	\$1,841.53	24	60%	\$2,762.30	8	80%	\$290.77
Labor Sub-Totals				34	100%	\$4,723.73	36	100%	\$5,966.21	40	100%	\$5,324.77	10	100%	\$1,294.67

SALARY RELATED COSTS:	100.00%
OVERHEAD:	161.63%
OPERATING MARGIN:	40.00%
FCOM:	0.73%
EXPENSES:	3.21%
CDAF	5.50%
Labor Multiplier:	311.07%

Company	Project Role	Hourly Rate	Labor Multiplier	Task 3		Task 4		Task 5		Task 6		Total Labor	Raw Costs	Multiplied Costs									
				Permitting & Approvals		Final Design Services		Limited Bid & Procurement Support Services		Post Design Services													
				Task 3.1 Permitting & Jurisdictional Approvals	Task 4.1 100% Design Services (Issue For Bid)	Task 5.1 Bid Document Completion	Task 5.2 Technical Support During Bid & Procurement	Task 5.3 Issue for Construction (IfC) Documents	Task 6.1 Construction Engineering Support														
		\$	Hrs	%	\$	Hrs	%	\$	Hrs	%	\$	Hrs	%	\$									
EAC	Chief Engineer 2	\$109.00	311.07%	0	0%	\$0.00	4	6%	\$1,395.27	--	--	8	8%	\$2,122.53	--	--	0	0%	\$0.00	28	2%	\$3,052.00	\$9,493.86
EAC	Project Manager	\$85.29	311.07%	0	0%	\$0.00	4	6%	\$1,061.25	--	--	16	16%	\$4,244.99	--	--	16	5%	\$4,244.99	64	5%	\$5,458.56	\$16,979.94
EAC	Senior Engineer	\$77.33	311.07%	8	10%	\$1,924.40	8	12%	\$1,924.40	--	--	32	32%	\$7,697.61	--	--	28	9%	\$6,735.41	195	17%	\$15,079.35	\$46,907.33
EAC	Engineer	\$42.87	311.07%	32	40%	\$4,267.38	32	47%	\$4,267.38	--	--	44	44%	\$5,867.65	--	--	96	30%	\$12,802.15	403	35%	\$17,276.61	\$53,742.35
EAC	Designer	\$37.00	311.07%	40	50%	\$4,603.84	20	29%	\$2,301.92	--	--	0	0%	\$0.00	--	--	136	43%	\$15,653.04	478	41%	\$17,686.00	\$55,015.84
Labor Sub-Totals				80	100%	\$10,795.62	68	100%	\$10,911.22	Not included in SOW		100	100%	\$20,522.78	Not included in SOW		276	86%	\$39,435.59	1,168	100%	\$58,552.52	\$182,139.32

Total rounded down to nearest cent.

Level of Effort (LOE)
BRIDGE #2 – 6-INCH FORCE MAIN REMOVAL AND REPLACEMENT



LOE Analysis									
Labor Category	Total Labor		Hourly Rate	Raw Costs		Multiplier	Multiplied Costs		
	Hours	%		\$			\$	%	
Chief Engineer 2	28	2%	\$109.00	\$3,052.00		3.1107	\$9,493.86	5%	
Project Manager	64	5%	\$85.29	\$5,458.56		3.1107	\$16,979.94	9%	
Senior Engineer	195	17%	\$77.33	\$15,079.35		3.1107	\$46,907.33	26%	
Engineer	403	35%	\$42.87	\$17,276.61		3.1107	\$53,742.35	30%	
Designer	478	41%	\$37.00	\$17,686.00		3.1107	\$55,015.84	30%	
	1,168	100%	\$50.13	\$58,552.52		\$3.1107	\$182,139.32	100%	

Total rounded down to nearest cent.



Level of Effort (LOE)
BRIDGE #2 – 6-INCH FORCE MAIN REMOVAL AND REPLACEMENT

SUMMARY OF TOTAL COSTS			
Firm	Certification	Assigned Scope of Work	Fees
EAC Consulting, Inc.		Prime Consultant, Pipeline Design Services	\$182,139.32
Manny Vera & Associates		Topography & Bathymetric Surveying & Mapping	\$28,650.80
Manny Vera & Associates		Utility Locating Services	\$9,237.14
Geosol	SBE	Geotechnical Engineering Services	\$19,987.84
EAC Consulting, Inc		Reimbursable Expenses	\$0.00
Total SBE Participation			\$240,015.10
8.3%			Project TOTAL

Total rounded down to nearest cent.

ATTACHMENT 4
Truth in Negotiation Certification

ATTACHMENT 5

Project Role Definition Form



November 18, 2024

Gabriel Delgado, P.E., PMP
Project Manager
Highway Bridge Engineering
Miami-Dade Department of Transportation and Public Works
701 N.W. 1st Court, Suite 1500, Miami FL 33136

Re: Contract No.: C9620 | PW Project No.: 20210011 | EAC Project No.: 21039.PD01-01
Venetian Causeway Bridge Replacement Final Design
Bridge 2 (874460) – 6-inch Force Main Removal and Replacement

Dear Mr. Delgado:

Please see below the project role definitions for this work order.

Project Role	Agreement Classification	Role Definition
Quality Control Assurance	Chief Engineer 2	Registered Professional Engineer which oversees the quality of the work and ensures compliance with contract documents and industry standards.
Senior Project Manager	Project Manager	Registered Professional Engineer responsible for the overall design, adherence contract documents and design objectives. Liaison with Miami-Dade County and Consultant.
Project Engineer	Senior Engineer	Registered Professional Engineer responsible for the design, prepares engineering calculations, permit packages and construction documents. Oversees non-technical registered staff.
Designer	Designer	Responsible for the preparation of project design drawings (CAD), quantities, and other pre-engineering tasks. Works under the direct supervision of a Registered Professional Engineer.
Senior CAD Technician	Designer	Assists in the preparation of project design drawings (CAD), quantities and other pre-engineering tasks. Works under the direct supervision of a Registered Professional Engineer.

Sincerely,

EAC Consulting, Inc

A handwritten signature in blue ink, appearing to read "Eduardo A. Garces", is written over a light blue circular stamp.

Eduardo A. Garces, P.E. PMP, ENV SP
Project Manager

MDC070

ATTACHMENT 6

Wage Letter



November 18, 2024

Gabriel Delgado, P.E, PMP
Project Manager
Highway Bridge Engineering
Miami-Dade Department of Transportation and Public Works
701 N.W. 1st Court, Suite 1500, Miami FL 33136

Re: Contract No.: C9620 | PW Project No.: 20210011 | EAC Project No.: 21039.PD01-01
Venetian Causeway Bridge Replacement Final Design
Bridge 2 (874460) – 6-inch Force Main Removal and Replacement

Dear Mr. Delgado:

Please see below the rates for the following employees.

Employee Name	Position	Hourly Rate	Project Role	Agreement Classification
Michael Adeife, P.E.	Technical Director	\$108.00	Quality Control Assurance	Chief Engineer 2
Huntley Higgins, P.E.	Department Manager	\$111.94	Senior Project Manager	Project Manager
Eduardo A. Garces, P.E.	Senior Engineer	\$72.12	Senior Engineer	Senior Engineer
Elias A. Guevara, P.E.	Project Engineer	\$60.10	Project Engineer	Senior Engineer
Matheus Dutra, E.I.	Designer	\$42.00	Designer	Designer
Kelly Carpenter, E.I.	Engineer Intern	\$38.50	Senior CAD Technician	Designer

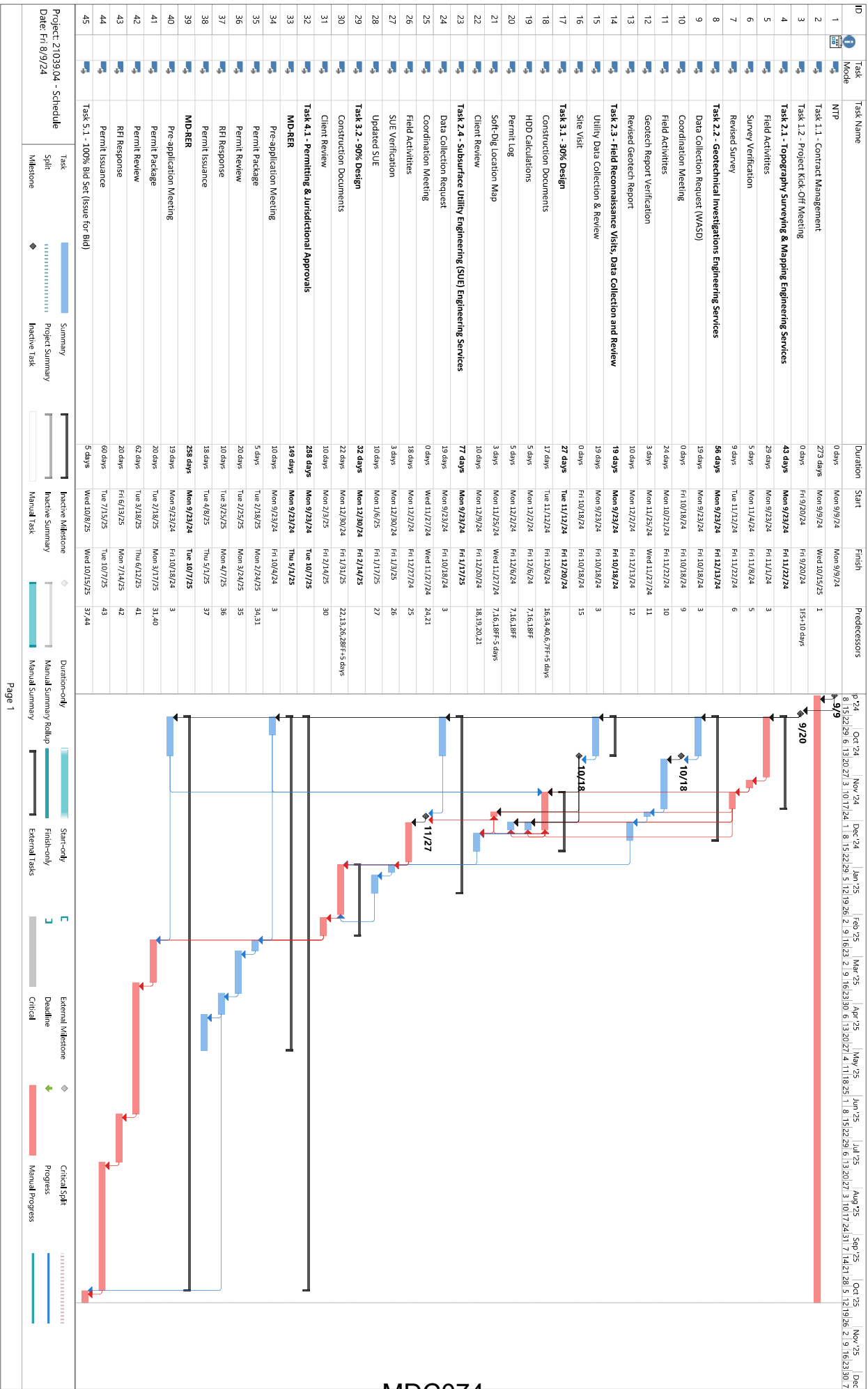
Sincerely,
EAC Consulting, Inc.

A handwritten signature in blue ink, appearing to read "Marie Chong".

Marie Chong
Senior Vice President
Chief Financial Officer

MDC072

ATTACHMENT 7
Anticipated Project Schedule



ATTACHMENT 8
Sub-Consultant Fee Proposal



13960 SW 47th St, Miami, FL 33175
t: 305.221.6210 | f: 305.221.1295
www.mgvera.com

August 19, 2024

EAC
5859 Blue Lagoon Drive
Suite 410
Miami, FL 33126

Project: : Venetian Causeway Bridge 2 FM Relocation

MGV appreciates the opportunity to perform our Design Survey and SUE (Subsurface Utility Engineering) services on this project. Below is our scope of services for the above referenced project. All survey work will adhere to the STATE OF FLORIDA STANDARDS OF PRACTICE, Chapter 427.027 Florida Statutes and Rule 5J-17 Florida Administrative Code.

Survey

Horizontal Control

Horizontal Project Network Control (HPNC) will be established on the Florida State Plane Coordinate System, East Zone, and North American Datum (NAD) of 1983 /2011 Adjustment.

Vertical Control

Vertical Project Network Control (VPNC), will be established on the NAVD 88 vertical datum.

Survey Baseline and Right of Way Lines

Utilize the existing historical baseline of survey and right of way CAD files. Survey baselines will be placed in PNC sheet and the survey database.

Topographic/DTM (3D)

Topographic and DTM Survey will be performed from right of way to right of way within the project limits. See attached sketch for limits.

Note: A signed and sealed Topographic Survey Map is **NOT** included in these scope of services.

Drainage Survey

Drainage structures will be surveyed within the project limits. Survey will identify the rim and bottom elevations, pipe invert elevation, pipe materials, direction, size and condition.

Note:

- *In cases where a structure is full of water and or sediment, MGV will visit said structures a maximum of 2 visits; if structures is still un-accessible, said structure will be reported to the Project Manager. Structure cleanout will be performed by owners Maintenance crews.*

Bridge Survey

The bridge deck will be surveyed and the lowest member elevation above the water will be located.

Bathymetric Survey

Perform a bathymetric survey within the project limits extending 100' north and south from the edge of bridge.

Project Network Control Sheet (PNC)

Prepare a PNC sheet for the project limits.

Deliverables

- Electronic Survey Database Cad file in MicroStation and AutoCAD Format

Underground Utilities

Quality Level A Locates (Test Holes) – Bank of 10

MGV will provide up to 10 Quality Level A Locates on specific utilities as directed by the EOR. MGV will utilize Electromagnetic Detection systems including GPR to identify the location of each utility requested prior to performing the test hole, ensuring each test hole is performed over the requested facility.

If additional test holes are required, an addendum will be provided to cover the additional test holes.

MGV will notify Sunshine One-Call 48 hours in advance of performing the utility locates (test holes). A non-destructive vacuum excavation system will be utilized to expose the utilities or perform exploratory test holes. Test holes performed will be of minimum size (usually 1' by 1'). Backfill of test holes will be performed utilizing material removed. Test holes performed in the street will be patched utilizing cold patch. Basic maintenance of traffic (signs, cones) will be included.

Survey Support

Utilizing existing project survey control, MGV will map the completed utility designation marks and locates (test holes), process and place in AutoCAD format

Deliverables:

- One overall electronic cadd file in MicroStation and AutoCAD depicting the designates and each test hole completed with depth of cover, size, type, material, direction, and elevation of each utility found. Drawings to follow FDOT CADD format (line styles).
- Field Test Hole Data sheets

Subsurface Utility Designating and Locating Conditions and Understandings

The utility designates and locates are for design purposes only. The Florida One Call must be notified forty-eight (48) hours in advance of any excavation.

Accuracy of Geophysical Mapping techniques, although highly reliable, are subject to outside interference. A few examples are: Soil condition, material conductivity, depth of utility, and various other geological anomalies that may distort or hinder electromagnetic and GPR frequencies.

MGV will make every effort possible utilizing state of the art technology to designate and locate underground utilities; however there are no guarantees that all underground utilities or structures will be detected.

MGV will not access confined spaces and is not included in this fee estimate. If accessing confined spaces are required, MGV will notify the client to discuss options. Additional fees may be applicable.

Additional Clarifications and Understandings

If cap rock or an obstruction is encountered during the test hole phase and further vacuum excavation cannot be completed or performed without the potential for utility damage, MGV will consider the test hole completed, measure the depth to the top of the cap rock or obstruction reached, survey the location and consider the test hole completed and invoice accordingly.

The below fee includes only backfill of test holes utilizing material removed in natural ground or cold patch within asphalt pavement or concrete in sidewalks for the approximate 1' x 1' test hole. If additional restoration is required, MG Vera will provide an additional proposal to cover the additional expense.

Basic maintenance of traffic (signs, cones) is included, but if advanced MOT is required for lane closures, etc., MGV will provide a cost estimate to cover these additional expenses.

This estimate does NOT include permit fees.

This estimate does NOT include fees for signed and sealed MOT plans.

Cost and Staff-hour breakdown

Please refer to Survey Staff-Hour spreadsheet for our staff-hour breakdown and to the Fee sheet attached here-to. Rates are based upon Miami-Dade County Contract: E19-DTPW-04 Fee Schedule Category 15.01

We look forward to providing our services and please contact me if you have any questions or require additional information.

Sincerely,
Manuel G. Vera & Associates, Inc.



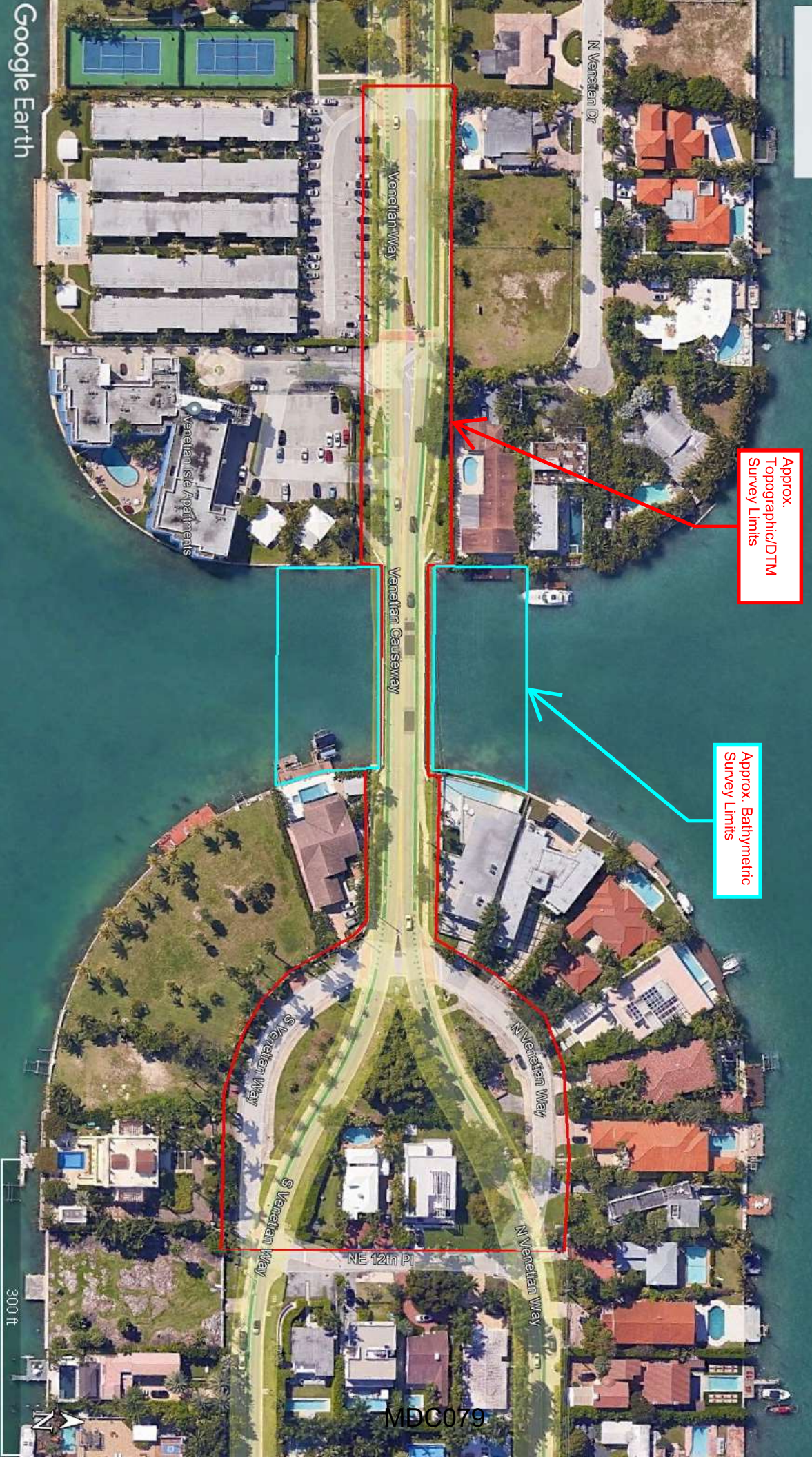
Mark R. Sowers, PSM

Survey Limits

Approx.
Topographic/DTM
Survey Limits

Approx. Bathymetric
Survey Limits

Legend



Rates based on Miami - Dade County Contract for Professional Services for General Land Surveying ISD E19-DTPV-04 Fee Schedule Category 15.01 (2021 through 2024)

Name of Project: Venetian Bridge 1 PD&E - Design Survey
County: Miami - Dade county
FPN: 0
FAP No.: N/A

Consultant Name: Manuel G. Vera & Assoc., Inc.
Consultant No.:
Date: 8/20/2024
Estimator: Manny Vera Jr.

Staff Classification	Total Staff Hours Survey/	Principal Surveyor	Surveyor Computer	Draftsperson	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH	Salary	Average
														By Activity	Cost By Activity	Rate Per Task
27. Survey (Field & Office Support)	\$1	5	31	15	0	0	0	0	0	0	0	0	0	\$1	\$6,373	\$124.96
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	8	1	4	3	0	0	0	0	0	0	0	0	0	8	\$1,008	\$125.99
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	59	6	35	18	0	0	0	0	0	0	0	0	0	59	\$7,390.65	\$125.10
Total Staff Cost		\$1,198.98	\$4,242.35	\$1,836.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$7,390.65	

Notes:
1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:																\$7,390.65
OVERHEAD:																\$0.00
OPERATING MARGIN:																\$0.00
FCOM (Facilities Capital Cost Money):																\$0.00
EXPENSES:																\$0.00
SUBTOTAL ESTIMATED FEE:																\$7,390.65
Survey Crew Party of 2	0													2-man crew @	\$ 1,763.61 / day	\$0.00
Survey Crew Party of 3	11.00													3-man crew @	\$ 1,933.65 / day	\$21,270.15
Survey Crew Party of 4	0													4-man crew @	\$ 2,241.53 / day	\$0.00
Designating Services 3 men crew	0													3-man crew @	\$ 301.56 / hour	\$0.00
GPR 3 men crew	0													3-man crew @	\$ 341.77 / hour	\$0.00
SUBTOTAL ESTIMATED FEE:																\$28,650.80
Vac Truck (Test Holes)	0													@	\$463.60 / Test Hole	\$0.00
GRAND TOTAL ESTIMATED FEE:																\$28,650.80

Rates based on Miami - Dade County Contract for Professional Services for General Land Surveying ISD E19-DTPV-04 Fee Schedule Category 15.01 (2021 through 2024)

Name of Project: Venetian Bridge 1 PO&E - SUE (Test Holes)
County: Miami - Dade county
FPN: 0
FAP No.: N/A

Consultant Name: Manuel G. Vera & Assoc., Inc.
Consultant No.:
Date: 8/20/2024
Estimator: Manny Vera Jr.

Staff Classification	Total Staff Hours Surveyed SH Surveyed / Firm	Principal Surveyor	Surveyor Computer	Draftsperson	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH	Salary	Average
														By Activity	Cost By Activity	Rate Per Task
27. Survey (Field & Office Support)	6	1	4	2	0	0	0	0	0	0	0	0	0	7	\$900	\$128.59
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	6	1	4	2	0	0	0	0	0	0	0	0	0	7	\$900.15	\$128.89
Total Staff Cost		\$198.83	\$464.64	\$215.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$900.15	\$128.89

Notes:
1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:	
OVERHEAD:	0%
OPERATING MARGIN:	0%
FCOM (Facilities Capital Cost Money):	0.00%
EXPENSES:	0.00%
SUBTOTAL ESTIMATED FEE:	
Survey Crew Party of 2	0
Survey Crew Party of 3	0.50
Survey Crew Party of 4	0
Designating Services 3 men crew	0
GPR 3 men crew	8
SUBTOTAL ESTIMATED FEE:	
Vac Truck (Test Holes)	10
GRAND TOTAL ESTIMATED FEE:	
	\$4,659.00
	\$9,237.14

EAC Consulting, Inc.
5959 Blue Lagoon Drive, Suite 410
Miami, Florida 33126

August 19, 2024
(Revised August 20, 2024)

Attention: Mr. Eduardo Garces, PE – Project Manager

**Re: Proposal for Supplemental Geotechnical Services for
Replacement of 6-inch Diameter Force Main at Bridge No. 2 (874460)**
Venetian Causeway from North Bayshore Drive in Miami to Purdy Avenue in Miami Beach
FM No.: 422713-2-22-01
Miami-Dade County, Florida
GEOSOL Proposal No. P-224172-R1

Dear Mr. Garces:

In accordance with your request on August 15, 2024, Geosol, Inc. (GEOSOL) is pleased to submit this proposal pertaining to supplemental geotechnical services for the above-referenced project. This proposal excludes any type of field and laboratory testing, or environmental permitting.

As we understand it, the Miami-Dade Department of Transportation and Public Works (DTPW) is planning to replace or improve twelve (12) existing bridges that comprise the Venetian Causeway in Miami-Dade County, Florida.

As we understand it, as part of the proposed improvements, the existing 6-inch diameter force main that is affixed to Venetian Cause Bridge No. 2 (874460) will be removed and replaced with subaqueous replacement via Horizontal Direction Drilling (HDD).

As requested, the geotechnical services for this phase of the project will be limited to the preparation of a geotechnical report using existing geotechnical data for use in the design of the proposed 6-inch diameter force main replacement.

The geotechnical report will be prepared for this study to summarize the course of the study pursued. The report will contain the existing field and laboratory data and subsurface conditions. The report will be prepared using the results of existing field investigations, laboratory testing and will contain geotechnical recommendations for use in the design of the proposed force main replacement. QA/QC checklist and report limitations will also be included as part of the report.

We have enclosed the detailed Fee Proposals for your review. Based on our general knowledge and an interpretation of your requirements, we are willing to complete the above referenced geotechnical services for lump sum fee of **\$19,987.84.**

GEOSOL appreciates the opportunity to work with you on these projects. If you have any questions, please do not hesitate to contact us.

GEOSOL, INC.



Oracio Riccobono, P.E.
Chief Geotechnical Engineer/President



Adnan Ismail, P.E.
Senior Geotechnical Engineer

Attachment 1 – Fee Proposal
Attachment 2 – Man-Hour Forecast



5795-A N.W. 151st Street
Miami Lakes, FL 33014
Phone (305) 828-4367; Fax (305) 828-4235
E-mail: geosolusa@bellsouth.net
MDC082

Proposal for Supplemental Geotechnical Services for
Replacement of 6-inch Diameter Force Main at Bridge No. 2 (874460)
Venetian Causeway from North Bayshore Drive in Miami to Purdy Avenue in Miami Beach
FM No.: 422713-2-22-01
Miami-Dade County, Florida
GEOSOL Proposal No. P-224172

ATTACHMENT 1

FEE PROPOSAL



MDC083

GEOSOL, INC.

FEE PROPOSAL FOR SUPPLEMENTAL GEOTECHNICAL SERVICES (Utility Relocation Services at Bridge 2)

Venetian Causeway from North Bayshore Drive in Miami to Purdy Avenue in Miami Beach

Bridges No.: 874460

Miami Dade County; FL

FM No.: 422713-2-22-01

GEOSOL PROPOSAL No. P-224172-R1

Prepared August 19, 2024 (Revised August 20, 2024)

DESCRIPTION

UNITS # OF UNIT TOTAL
UNITS RATE (\$) \$

Contract Item No.	1) SUMMARY OF ENGINEERING AND TECHNICAL SERVICES (SEE ATTACHED STAFF-HOUR BREAKDOWN)				
23E	Principal	HOUR	42	\$166.56	\$6,995.52
23D	Senior Engineer	HOUR	74	\$160.62	\$11,885.88
23A	C.A.D. Operator	HOUR	12	\$83.28	\$999.36
23F	Clerical/Administrative	HOUR	2	\$53.54	\$107.08
		Σ	130		
TOTAL ENGINEERING AND TECHNICAL SERVICES					\$19,987.84

MDC084

Proposal for Supplemental Geotechnical Services for
Replacement of 6-inch Diameter Force Main at Bridge No. 2 (874460)
Venetian Causeway from North Bayshore Drive in Miami to Purdy Avenue in Miami Beach
FM No.: 422713-2-22-01
Miami-Dade County, Florida
GEOSOL Proposal No. P-224172

3

ATTACHMENT 2

MAN-HOUR FORECAST



MDC085

Project Activity 30: Geotechnical

Venetian Causeway from North Bayshore Drive in Miami to Purdy Avenue in Miami Beach
Bridge No.: 874460
Miami Dade County, FL
FM No.: 422713-2-22-01

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
Roadway						
30.1	Document Collection and Review	LS	1	24	24	
30.2	Develop detailed boring location plan	LS	0	0	0	
30.3	Stake Borings/Utility Clearance	Boring	0	0	0	
30.4	Coordinate and develop MOT plans for field investigation	EA	0	0	0	
30.5	Drilling Access Permits	Location	0	0	0	
30.6	Property Clearances	EA	0	0	0	
30.7	Groundwater Monitoring	EA	0	0	0	
30.8	LBR Sampling	EA	0	0	0	
30.9	Coordination of Field Work	100 lf of boring	0	0	0	
30.10	Soil and Rock Classification - Roadway	100 lf of boring	0	0	0	
30.11	Determine Design LBR	LS	0	0	0	
30.12	Tabulate all Laboratory Data	100 lf of boring	0	0	0	
30.13	Estimate Seasonal High Water Table	Boring	0	0	0	
30.14	Calculate Parameters for Water Retention Areas	EA	0	0	0	
30.15	Delineate limits of Unsuitable Material	Cross-section	0	0	0	
30.16	ASCII files for cross-sections	100 lf of boring	0	0	0	
30.17	Embankment settlement and Stability	Embankment Boring	0	0	0	
30.18	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	
30.19	Geotechnical Recommendations	LS	1	16	16	
30.20	Preliminary Roadway Report and Pavement Evaluation Report	EA	1	30	30	No additional field testing will be performed. For this phase of the project, we will use existing geotechnical data.
30.21	Final Report	EA	1	20	20	
30.21	Final Report	EA	1	2	2	Clerical. For report preparation.
30.22	Auger boring drafting	100 lf boring	0	0	0	
30.23	SPT boring drafting	100 lf boring	1	12	12	
Roadways Geotechnical Subtotal					104	
Structures						
30.24	Develop detailed boring location plan	LS	0	0	0	
30.25	Stake Borings/Utility Clearance	Boring	0	0	0	
30.26	Coordinate and develop MOT plans for field investigation	EA	0	0	0	
30.27	Drilling Access Permits	Location	0	0	0	

Project Activity 30: Geotechnical

30.28	Property Clearances	EA	0	0	0	0	
30.29	Collection of corrosion samples	EA	0	0	0	0	
30.30	Coordination of Field Work	100 ft of boring	0	0	0	0	
30.31	Soil and Rock Classification - Structures	100 ft of boring	0	0	0	0	
30.32	Tabulate all Laboratory Data	100 ft of boring	0	0	0	0	
30.33	Estimate Design groundwater level for structures	EA	0	0	0	0	
30.34	Evaluation and Selection of Foundation Alternatives (BDR)	Bridge boring	0	0	0	0	
30.35	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	0	0	0	0	
30.36	Bridge Construction and Testing Recommendations	Bridge boring	0	0	0	0	
30.37	Lateral Load Analysis	Bridge boring	0	0	0	0	
30.38	Walls	Wall Boring	0	0	0	0	
30.39	Sheetpile wall Analysis	LS	0	0	0	0	
30.40	Design soil parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical recommendations.	Boring	0	0	0	0	
30.41	Box Culvert Analysis	EA	0	0	0	0	
30.42	Preliminary Report Bridge Report	EA	0	0	0	0	
30.43	Final Report - Bridge and associated walls	EA	0	0	0	0	
30.44	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights.	EA	0	0	0	0	
30.45	SPT boring drafting	100 ft of boring	0	0	0	0	
30.46	Other Geotechnical	EA	0	0	0	0	
Structural Geotechnical Subtotal						0	
Geotechnical Technical Subtotal						104	
30.47	Specification Development and Review	LS	0	0	0	0	
30.48	Field Reviews	LS	1	8		8	
30.49	Technical Meetings	LS	4	2		8	
30.50	Quality Assurance/Quality Control	LS	%	3.0%		3	
30.51	Supervision	LS	%	3.0%		3	
Geotechnical Nontechnical Subtotal						22	
30.52	Coordination	LS	%	3.0%		4	
30.53	Geotechnical Support Services: Post-Design and RFP document preparation	LS	0	0		0	
30. Geotechnical Total						130	

SUMMARY OF MAN HOURS		HOURS
Principal Engineer		42
Senior Engineer		74
CADD Technician/Operator		12
Clerical/Secretarial/		2
		130



13960 SW 47th St, Miami, FL 33175
t: 305.221.6210 | f: 305.221.1295
www.mgvera.com

February 4, 2025

EAC
5859 Blue Lagoon Drive
Suite 410
Miami, FL 33126

Project: : Venetian Causeway Supplemental Survey
Limits: See Attached Sketch

MGV appreciates the opportunity to perform our Design Survey services on this project. Below is our scope of services for the above referenced project. All survey work will adhere to the STATE OF FLORIDA STANDARDS OF PRACTICE, Chapter 427.027 Florida Statutes and Rule 5J-17 Florida Administrative Code. The proposed Design Survey Scope of work includes the following design survey task:

27.1 Horizontal Control

Horizontal Project Network Control (HPNC) will be established on the Florida State Plane Coordinate System, East Zone, and North American Datum (NAD) of 1983 /2011 Adjustment as required to complete this scope of services.

27.2 Vertical Control

Vertical Project Network Control (VPNC), will be established on the NAVD 88 vertical datum as required to complete this scope of services

27.6 Topographic/DTM (3D) (See Attached Sketch For Limits)

Topographic and DTM Survey will be performed within 2 additional project areas.

Note: A signed and sealed Topographic Survey Map will be prepared.

27.11 Outfall Survey (See Attached Sketch For Locations)

2. Survey existing seawall at the existing outfall locations

- a. Approx Sta 174+15 RT
- b. Approx Sta 193+05 RT
- c. Approx Sta 225+10 RT

3. Locate existing outfall pipes and get pipe invert and size

- a. Belle Isle , Sta 225+00 RT. (Existing outfall may be located under the bridge).
- b. Belle Isle, Sta 238+10 RT. including the connecting structure.

27.12 Drainage Survey (See Attached Sketch For Location)

4. Verify Horizontal Location of MH at Sta. 236+80 RT.

27.14 Channel Survey (See Attached Sketch For Locations)

1. Obtain Spot Elevations in Biscayne Bay in vicinity of the following existing outfall pipes:

- a. Approx Sta 156+20 RT
- b. Approx Sta 174+30 RT
- c. Approx Sta 187+20 RT
- d. Approx Sta 193+00 RT
- e. Approx Sta 206+00 RT
- f. Approx Sta 225+00 RT
- g. Approx Sta 238+20 RT

Topographic Survey Map

Master CADD File

- 29.1 Alignment
- 29.2 Section and 1/4 Section Lines
- 29.3 Subdivisions / Property Lines
- 29.4 Existing Right of Way
- 29.6 Topography

Sheet Files

- 29.10 Topographic Survey Cover Sheet
- 29.11 Topographic Survey Key Sheet
- 29.12 Topographic Survey Detail Sheet

Deliverables

- Storage device containing the following:
 - Electronic Cad files in AutoCAD Format, drawings to follow FDOT CAD format (line styles)
 - Electronic Cad files in MicroStation Format, drawings to follow FDOT CAD format (line styles)
 - Signed and Sealed PDF file.
 - Point txt file using PNEZD format.
- 1 Signed and Sealed digital copy
- Signed and sealed (full size) Topographic Map

Cost and Staff-hour breakdown

Please refer to Survey Staff-Hour spreadsheet for our staff-hour breakdown and to the Fee sheet attached here-to. Rates are based upon Miami-Dade County Contract: E19-DTPW-04 Fee Schedule Category 15.01

We look forward to providing our services and please contact me if you have any questions or require additional information.

Sincerely,
Manuel G. Vera & Associates, Inc.



Mark R. Sowers, PSM

Rates based on Miami - Dade County Contract for Professional Services for General Land Surveying ISD E19-DTPW-04 Fee Schedule Category 15.01 (2021 through 2024)

Name of Project:
County:
FPN:
FAP No.:

Venetian Causeway
Miami - Dade

Consultant Name:
Consultant No.:

Manuel G. Vera & Assoc., Inc.
2/4/2025

Staff Classification	Total Staff Hours From SH Summary	Principal Surveyor	Surveyor Computer	Draftsman	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
	Ftm*	\$199,839	\$121,211	\$107,743	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	55	\$6,871	\$124.93
27. Survey (Field & Office Support)	55	5	36	14	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	44	11	26	7	0	0	0	0	0	0	0	0	0	44	\$6,104	\$138.72
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	99	16	62	21	0	0	0	0	0	0	0	0	0	99		
Total Staff Cost		\$3197.28	\$7515.02	\$2282.54	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$12974.84	\$131.06

Notes:
1. This sheet to be used by Subconsultant to calculate its fee.

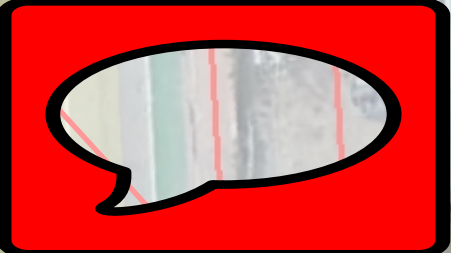
SALARY RELATED COSTS:																	\$12,974.84
OVERHEAD:																	\$0.00
OPERATING MARGIN:																	\$0.00
FCCM (Facilities Capital Cost Money):																	\$0.00
EXPENSES:																	\$0.00
SUBTOTAL ESTIMATED FEE:																	\$12,974.84
Survey Crew Party of 2	0														\$1,763.61 / day	\$0.00	
Survey Crew Party of 3	6														\$1,933.65 / day	\$11,601.90	
Survey Crew Party of 4	0														\$2,241.53 / day	\$0.00	
Designating Services 3 men crew	0														\$301.56 / hour	\$0.00	
GPR 3 men crew	0														\$341.77 / hour	\$0.00	
SUBTOTAL ESTIMATED FEE:																	\$24,576.74
Vac Truck (Test Holes)	0																\$0.00
GRAND TOTAL ESTIMATED FEE:																	\$24,576.74

MDC090

Additional Survey Areas

Legend

Additional Survey Limits



Venetian Way

Venetian Way

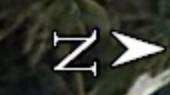
Venetian Way

8

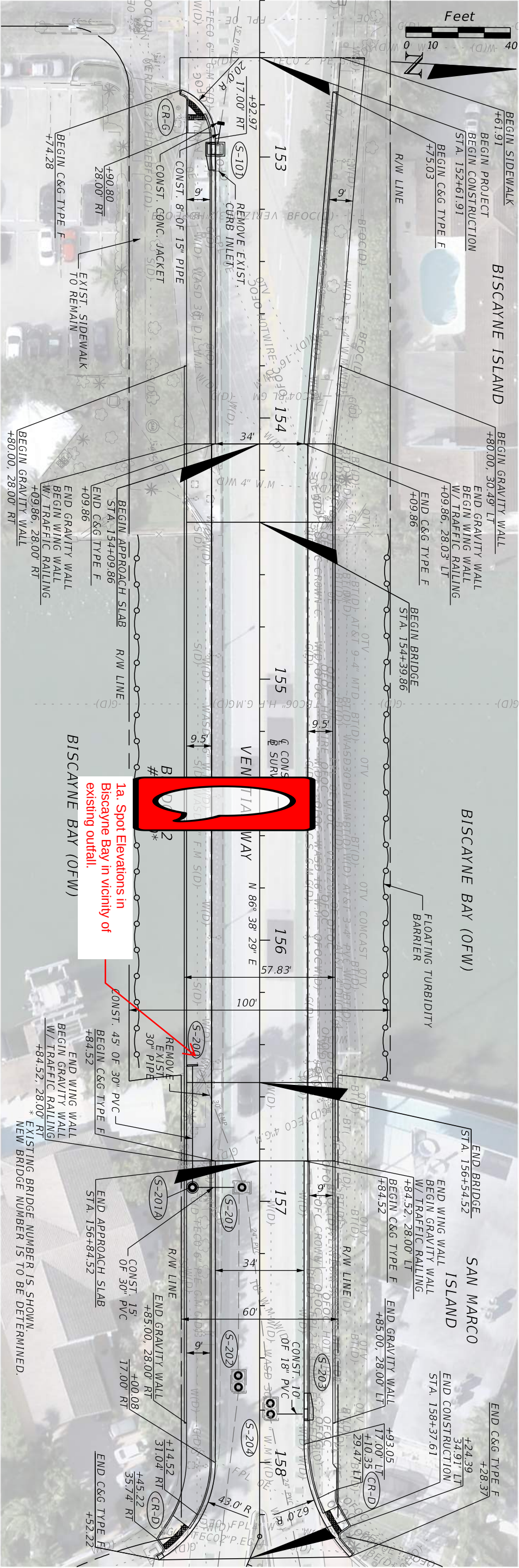
MDC091

Island Ave

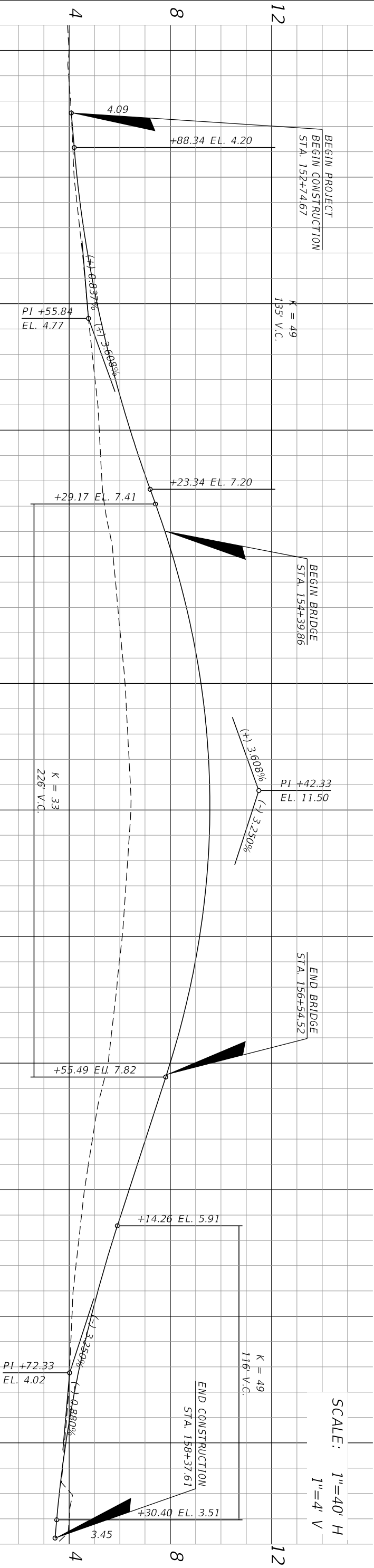
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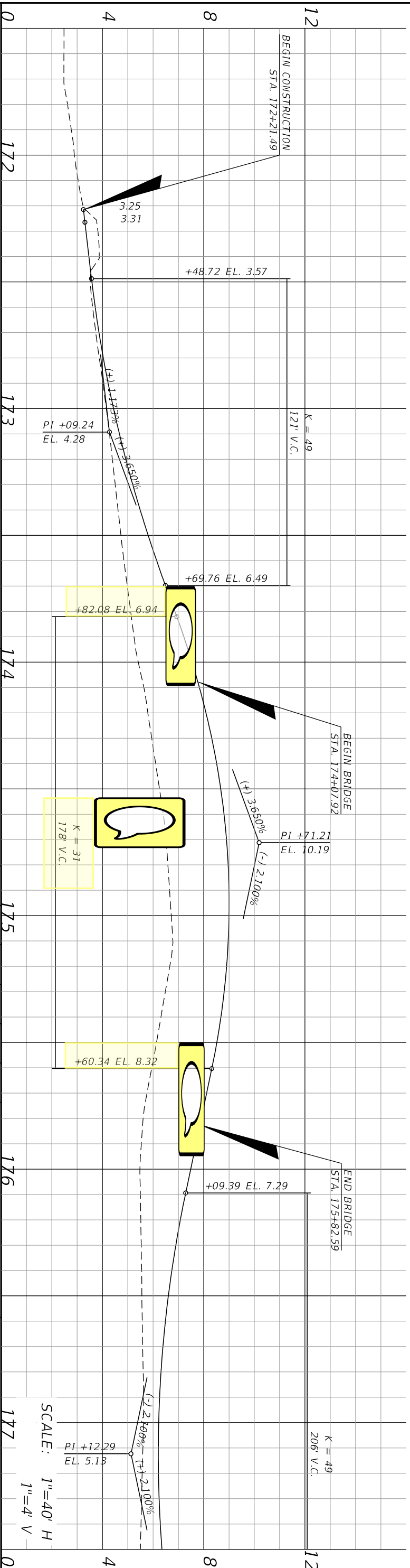
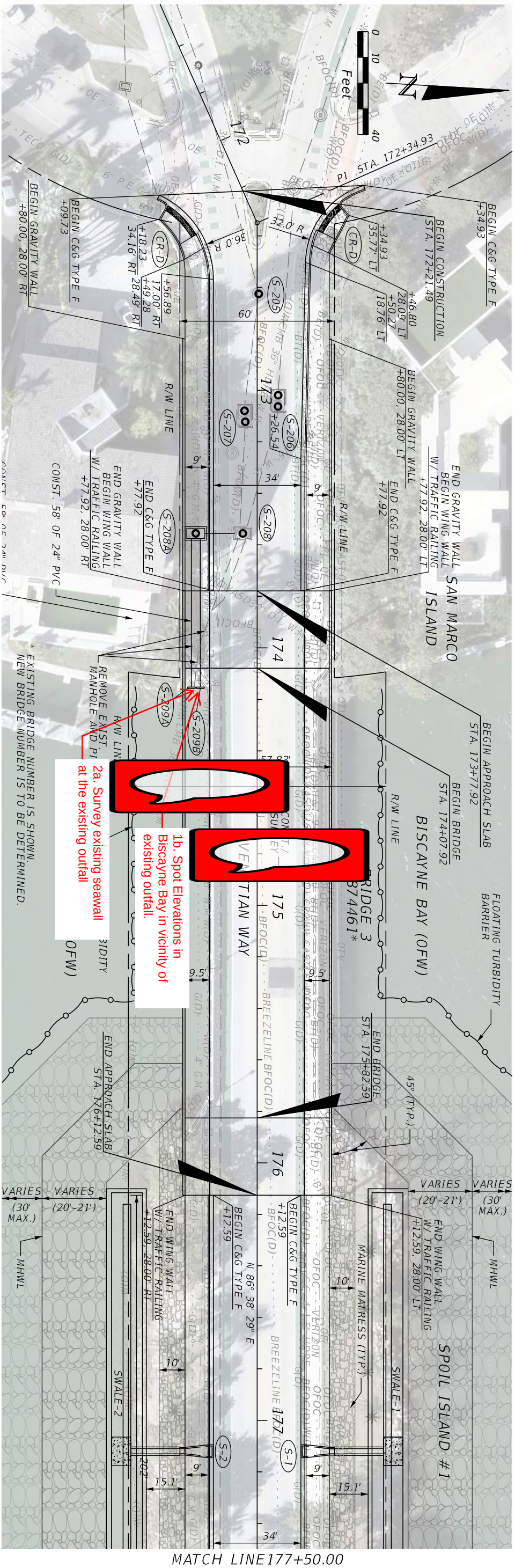
100 ft



1a. Spot Elevations in Biscayne Bay in vicinity of existing outfall.



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
REVISIONS											
EAC CONSULTING, INC. 6969 WATERFORD DISTRICT MIAMI, FL 33126 PH: 305-285-5400 CA # 7011											
DESIGNED BY: NAME: DATE: DRAWN BY: NAME: DATE: SUPERVISED BY: NAME: DATE: DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION SERRA P. GARCIA WMA 110011378											
PLAN PROFILE											



R E V I S I O N S						DATE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



EAC Consulting, Inc.
5959 WATERFORD DISTRICT
DRIVE, SUITE 410
MIAMI, FL 33126
CA # 7011

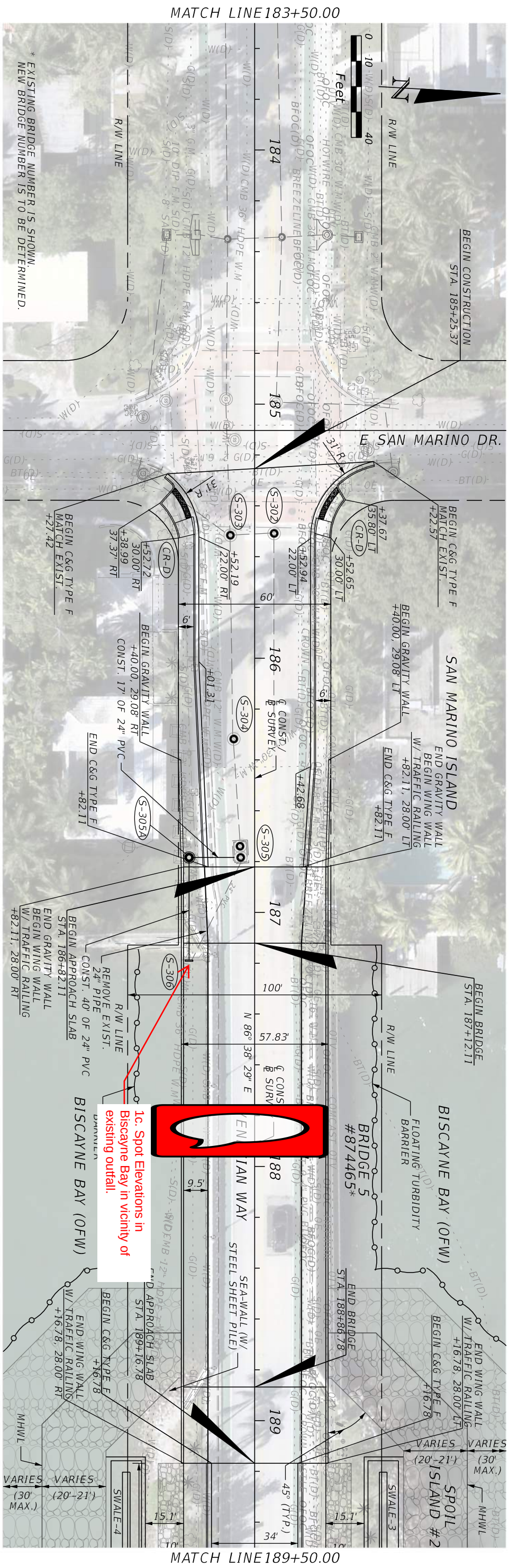
MADE	DATE	MADE	DATE
DESIGNED		DRAWN	
CHECKED		CHECKED	
BY			

SUPERVISED BY:



MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
SHEPHERD A. GOMEZ CENTER
MIAMI, FL 33128

PLAN-PROFILE



R E V I S I O N S				DATE			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



EAC CONSULTING, INC.
 5959 WATERFORD DISTRICT
 DRIVE, SUITE 410
 MIAMI, FL 33126
 PH: 305-265-5400
 CA # 10111

NAME	DATE	NAME	DATE
DESIGNED		DESIGN	
CHECKED		CHECKED	
BY		BY	

SUPERVISED BY:

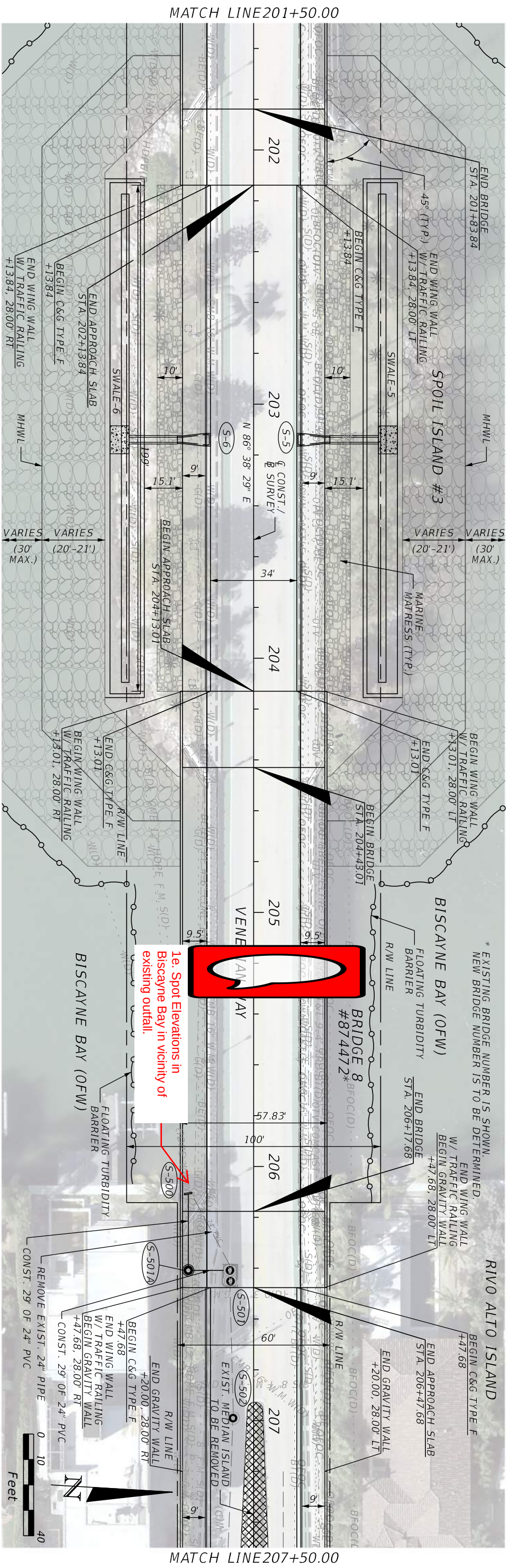


MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION
 AND PUBLIC WORKS
 HIGHWAY DIVISION

PLAN-PROFILE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
VENETIAN CAUSEWAY
PROJECT NO. 20210011 SHEET ____ OF ____

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MDC096

R E V I S I O N S				DATE			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



EAC
EAC Consulting, Inc.
5959 WATERFORD DISTRICT
DRIVE, SUITE 410
MIAMI, FL 33126
PH: 305-285-5400
CA # 1001

DESIGNED BY	DATE	NAME	DATE	NAME	DATE

SUPERSEDED BY:



MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
STREET & PLANNING CENTER
3000 N.W. 107th AVENUE
MIAMI, FL 33122

PLAN PROFILE

dcastillo

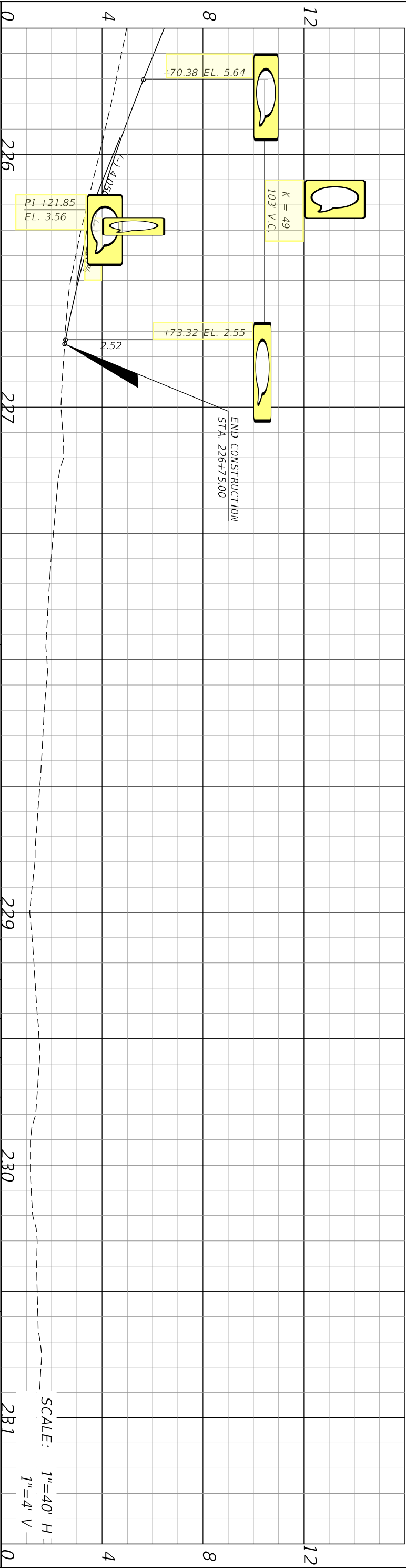
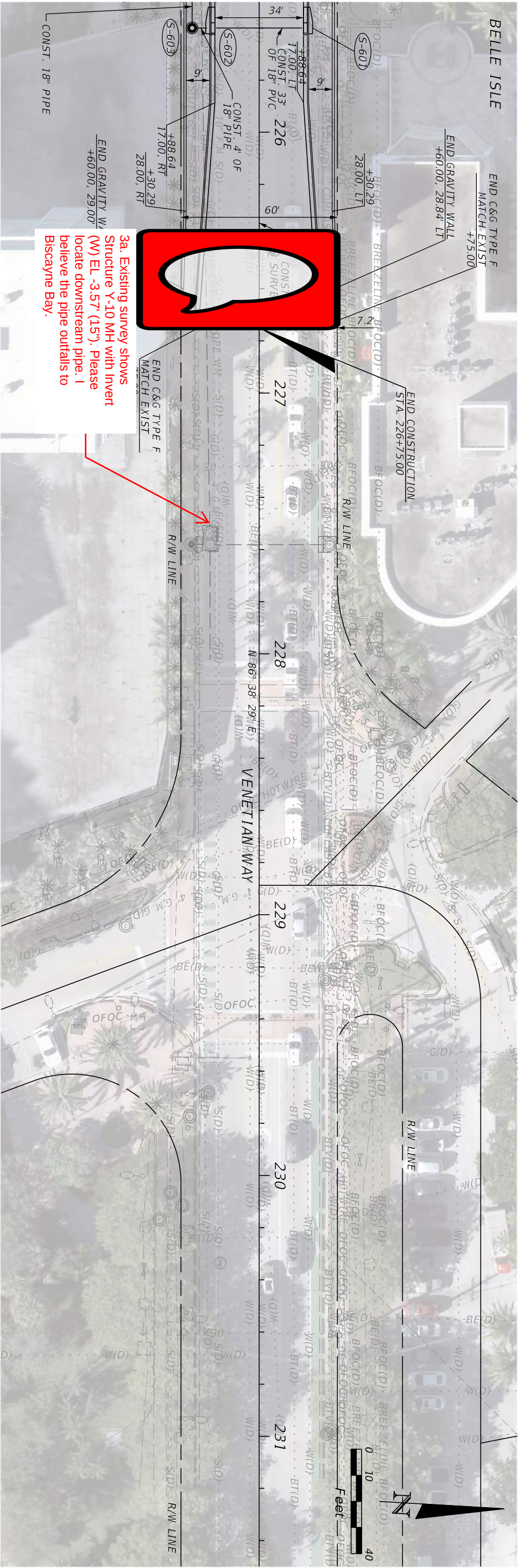
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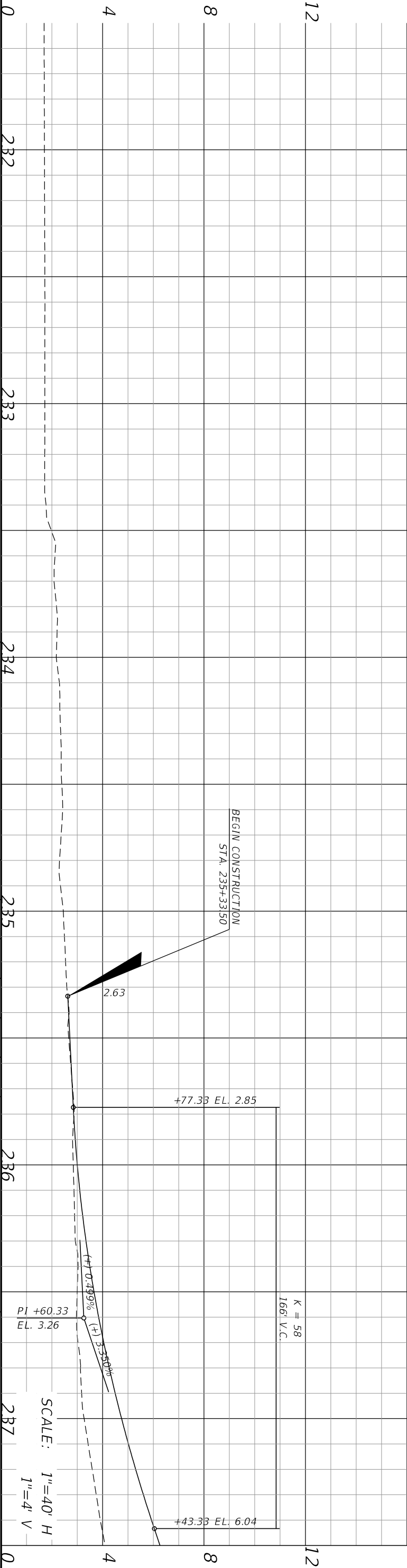
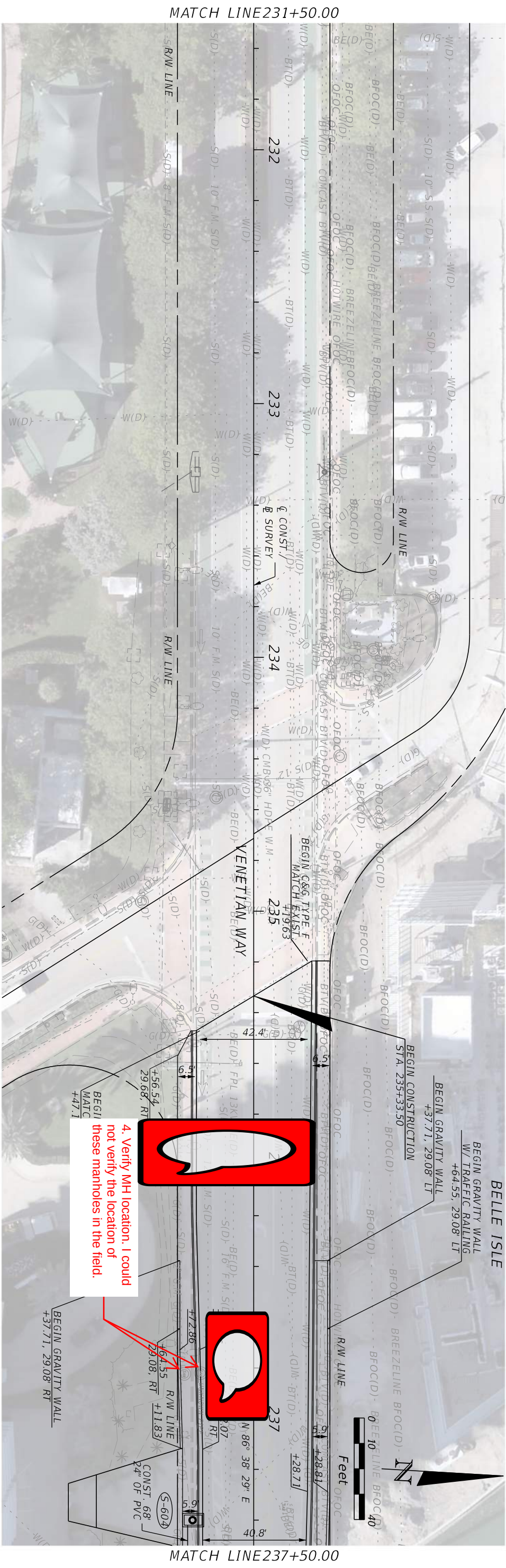
MATCH LINE 225+50.00

EAC
EAC CONSULTING, INC.
3959 WATERFORD DISTRICT
DRIVE, SUITE 410
MIAMI, FL 33126
PH: 305-265-5400
CA # 7011



SCALE: 1"=40' H
1"=4' V

DATE			BY			DESCRIPTION			DATE			BY			DESCRIPTION		
REVISIONS																	
EAC Consulting, Inc.																	
EAC CONSULTING, INC. 5959 WATERFORD DISTRICT DRIVE, SUITE 410 MIAMI, FL 33126 PH: 305-265-5400 CA # 10111																	
DESIGNED BY			NAME			DATE			DRAWN BY			NAME			DATE		
CHECKED BY			NAME			DATE			SUPERVISED BY			NAME			DATE		
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION STROMBERG CLASS CENTER MIAMI, FL 33138																	
PLAN PROFILE																	





EAC Consulting Inc.

GFRP REINFORCING – EAC

Name of Project:	Venetian Causeway
County:	Miami-Dade
FPN:	0
EAP No.:	1/0/1900

Consultant Name: EAC Consulting, Inc.
Consultant No.: enter consultants proj. number
Date: 1/18/2024
Estimator: insert name

FAP No.:

1/0/1900

Estimator: **insert name**

insert name

Staff Classification	Hours From "SH Summary - Firm"	Chief Engineer 2	Sr Engineer	Sr Project Engineer	Engineer Intern	Designer/CAD D	-	-	-	-	-	-	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$109.00	\$77.33	\$65.00	\$32.00	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	961	\$7,965.60	\$60.28
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	87	9	22	22	17	17	0	0	0	0	0	0	87	\$5,269	\$60.28
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	874	87	219	219	175	175	0	0	0	0	0	0	874	\$52,687	\$60.28
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours		96	240	240	192	192	0	0	0	0	0	0	961		
Total Staff Cost		\$10,479.26	\$18,586.27	\$15,622.75	\$6,162.96	\$7,114.36	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$7,965.60	\$60.28

MDC102

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Estimator: Stephanie Romero

Venetian Causeway

0

Representing	Print Name	Signature / Date
DTPW		
EAC CONSULTING, INC.	Rick Crooks	4/11/2017

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
	General Drawings										
9.1	Key Sheet and Index of Drawings	Sheet	2	0	0	0					
9.2	Project Layout	Sheet	2	0	0	0					
9.3	General Notes and Bid Item Notes	Sheet	1	0	0	0					
9.4	Miscellaneous Common Details	Sheet	0	0	0	0					
9.5	Incorporate Report of Core Borings	Sheet	0	0	0	0					
9.6	Existing Bridge Plans	LS	1			0					
9.7	Assemble Plan Summary Boxes and Quantities	LS	1			0					
9.8	Cost Estimate	LS	1			0					
9.9	Technical Special Provisions	LS	1			0					
Structures - Summary and Miscellaneous Tasks and Drawings Subtotal					0	0					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 2 thru 12 including fixed spans of Bridge 10	874	0	0	0	874	0	0	0		
17	Retaining Walls	0								0	
18	Miscellaneous Structures	0									0
Structures Technical Subtotal		874	0	0	0	874	0	0	0	0	0

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments
9.10	Field Reviews	LS	0	0	0	
9.11	Technical Meetings	LS	1	0	0	
9.12	Quality Assurance/Quality Control	LS	%	5%	44	
9.13	Independent Peer Review	LS	1	0	0	
9.14	Supervision	LS	%	5%	44	
Structures Nontechnical Subtotal					87	
9.15	Coordination	LS	1		0	
9. Structures - Summary and Miscellaneous Tasks and Drawings Nontechnical and Coordination Total					87	

Technical Meetings	Units	No of Units	Hours/Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kick-Off Meeting	EA	0	0	0	yes	0
90/100% Comment Review	EA	0	0	0	yes	0
Aesthetics Coordination	EA	0	0	0	yes	0
Regulatory Agency	EA	0	0	0	yes	0
Local Governments (cities, counties)	EA	0	0	0	no	0
Utility Companies	EA	0	0	0	no	0
Other Meetings	EA	0	0	0	no	0
Subtotal Technical Meetings				0		0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	--
Total Meetings				0	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 9.11

Carries to Tab 3

Representing	Print Name	Signature / Date
DTPW		
EAC CONSULTING, INC		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Layout Design and Plans							
13.1	Overall Bridge Final Geometry	LS	0	0	1	0	
13.2	Expansion/Contraction Analysis	EA Unit	0	0	1	0	
13.3	General Plan and Elevation	Sheet	0	0	0	0	
13.4	Construction Staging	Sheet	0	0	0	0	
13.5	Approach Slab Plan and Details	Sheet	0	0	0	0	
13.6	Miscellaneous Details	Sheet	0	0	0	0	
End Bent Design and Plans							
13.7	End Bent Geometry	EA End Bent	0	0		0	
13.8	Wingwall Design and Geometry	EA End Bent	0	0		0	
13.9	End Bent Structural Design	EA Design	6	24	0	144	Revise End Bent design, change reinforcement from carbon steel to stainless steel for both shear and flexural design. Coupler connection will also be checked. Revise drilled shaft cap interface design using GFRP. For group
13.10	End Bent Plan and Elevation	Sheet	6	6	6	36	revise reinforcement layout, spacing and designation in plan and elevation views
13.11	End Bent Details	Sheet	6	6	6	36	revise reinforcement details in section views
Intermediate Bent Design and Plans							
13.12	Bent Geometry	EA Bent	0	0		0	
13.13	Bent Stability Analysis	EA Design	0	0		0	
13.14	Bent Structural Design	EA Design	6	24		144	Revise Intermediate Bent design, change reinforcement from carbon steel to stainless steel for both shear and flexural design. Coupler connection will also be checked. Revise drilled shaft cap interface design using GFRP. For
13.15	Bent Plan and Elevation	Sheet	6	6	6	36	revise reinforcement layout, spacing and designation in plan and elevation views
13.16	Bent Details	Sheet	6	6	6	36	revise reinforcement details in section views
Pier Design and Plans							
13.17	Pier Geometry	EA Pier	0	0		0	
13.18	Pier Stability Analysis	EA Design	0	0		0	

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
13.19	Pier Structural Design	EA Design	0	0		0	
13.20	Pier Plan and Elevation	Sheet	0	0	0	0	
13.21	Pier Details	Sheet	0	0	0	0	
Miscellaneous Substructure Design and Plans							
13.22	Foundation Layout	Sheet	0	0	0	0	
Superstructure Deck Design and Plans							
13.23	Finish Grade Elevation (FGE) Calculation	LS	0	0		0	
13.24	Finish Grade Elevations	Sheet	0	0	0	0	
13.25	Bridge Deck Design	EA Section	0	0		0	
13.26	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	0	0		0	
13.27	Diaphragm Design	EA Section	0	0		0	
13.28	Superstructure Plan	Sheet	0	0	0	0	
13.29	Superstructure Section	Sheet	0	0	0	0	
13.30	Miscellaneous Superstructure Details	Sheet	0	0	0	0	
Reinforcing Bar Lists							
13.31	Preparation of Reinforcing Bar List	Sheet	6	8	6	48	GFRP Bar list. Assume 6 bridge units
Continuous Concrete Girder Design							
13.32	Section Properties	LS	0	0		0	
13.33	Material Properties	LS	0	0		0	
13.34	Construction Sequence	EA Unit	0	0		0	
13.35	Tendon Layouts	EA Unit	0	0		0	
13.36	Live Load Analysis	EA Unit	0	0		0	
13.37	Temperature Gradient	EA Unit	0	0		0	
13.38	Time Dependent Analysis	EA Unit	0	0		0	
13.39	Stress Summary	EA Unit	0	0		0	
13.40	Ultimate Moments	EA Unit	0	0		0	
13.41	Ultimate Shear	EA Unit	6	24		144	Revise shear design using GFRP. For group efficiency, assume 6 bridge units.
13.42	Construction Loading	EA Unit	0	0		0	

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
13.43	Framing Plan	Sheet	0	0	0	0	
13.44	Girder Elevation, including Grouting Plan and Vent Locations	Sheet	0	0	0	0	
13.45	Girder Details	Sheet	6	24	6	144	Continuous spans of beams. Shear reinforcement using GFRP, including the stirrup arrangement in the sections. For group efficiency, assume 6 bridge units.
13.46	Erection Sequence	Sheet	0	0	0	0	
13.47	Splice Details	Sheet	0	0	0	0	
13.48	Girder Deflections and Camber	Sheet	0	0	0	0	
Simple Span Concrete Design							
13.49	Prestressed Beam	EA Design	0	0		0	
13.50	Prestressed Beam Schedules	Sheet	0	0	0	0	
13.51	Framing Plan	Sheet	0	0	0	0	
Beam Stability							
13.52	Beam/girder stability	EA Unit	0	0		0	
Bearing							
13.53	Bearing pad and bearing plate design	Type/ Span	0	0		0	
13.54	Bearing pad and bearing plate details	Sheet	0	0	0	0	
Load Rating							
13.55	Load Ratings	Per Beam	6	16		106	Change stainless steel to GFRP for the reinforcement. Revise load rating analysis and load rating report for all fixed bridges. For group efficiency, assume 6 bridge units.
13. Structures - Medium Span Concrete Bridge Total						37	874

SUBAQUEOUS UTILITY LOCATION – DOC



Depth of Cover Specialists

Proposal

Date: November 5th, 2024

Quote #: 20241105_EAConsultants_Bridge 10

DoC Mapping LLC
460 Fairway Dr.
New Orleans, LA 70124

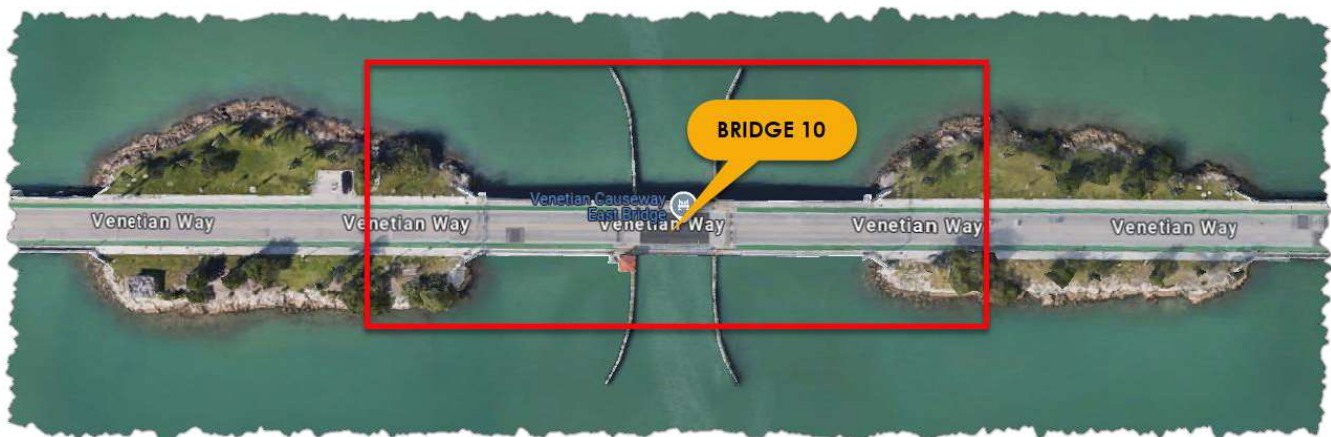
Contact: Jolie Cervera
Client: EA Consultants
Project: Bridge 10 _ Venetian Causeway Utility Clearance
Location: Miami FL

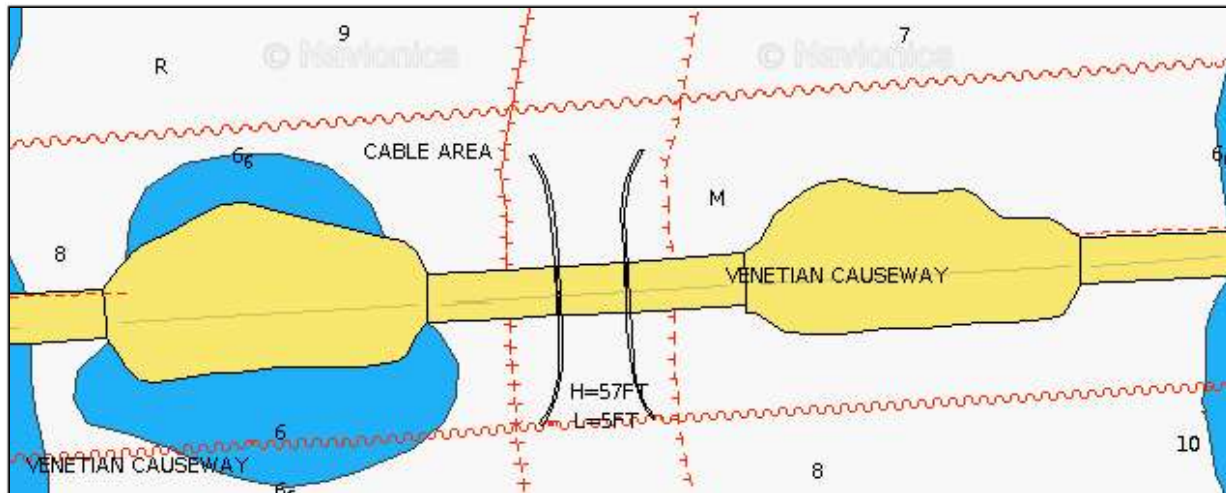
Thank you for an opportunity to provide a proposal for this project, DoC is pleased to offer you the following equipment and personnel.

Project Scope:

DoC Mapping proposes to use a variety of sensors to locate utilities in the survey area at the Bridge 10 area of the Venetian Causeway.

The survey area pictured below is between Rivo Alta Island and Belle Island along Venetian Causeway in Biscayne Bay. The water depths are less than 10' deep throughout the survey area. The area measures approximately 250' by 500'





DoC Mapping proposes to locate all utilities crossing the waterway in the survey area. There are estimated to be approximately 10 utilities in this area owned by the following organizations:

- AT&T Florida
- Breezeline
- City of Miami Beach
- Comcast
- Crown Castle
- FPL Distribution
- Hotwire Communications
- Miami Dade County Water and Sewer Department (MDWASD)
- MCI/Verizon
- Miami Dade County Parks, Recreation & Open Spaces (MD-PROS)
- TECO Peoples Gas

To accomplish this task, DoC Mapping will utilize several techniques and technologies including:

- High-resolution Multibeam Sonar (MB) to image the seafloor, detect pipe exposures and collect seafloor elevations in the survey area.
- Hull Mounted EM Locating Suite (EM) and Land Locating Suite to determine the XY&Z position of the utilities that can be toned. This system works by applying a low voltage signal to the utility and then passing a sensor array over it to measure the associated magnetic field. When the sensor data is tied into bathymetric sonar and GPS data, very precise TOP positions and depth of cover information are generated.
 - DoC Mapping requires a tone to be on the utilities to locate them with the EM locating suite. This tone may be generated by the utility owner or by a transmitter provided by DoC Mapping. For the transmitter to work, DoC Mapping personnel require direct access to the utilities. This can either be via a CP test lead, valve, vault, spare conductor, casing etc. EA is responsible for providing utility contacts and for coordinating this access.
- A Sub-Bottom Profiler will be used to try to acoustically locate any utilities that cannot be toned. The effectiveness of the SBP is highly dependent on bottom composition and utility characteristics and acquisition of useful data is not guaranteed for this sensor.
- It is recommended that EA establish contact with the utility owners and collect any and all available data related to the utilities prior to field surveys. This data can help with survey planning and improves the chance that the utilities will be located successfully. See attached Utility Owner Questionnaire for additional details.

Scheduling and Duration:

It is estimated that this project will take between 5 and 10 days.

Deliverables:

At the conclusion of the survey a written report will be generated that will include the following.

- Summary of the project
- Personnel on-site
- Equipment used.
- Procedures
- Geodetic setting and correction parameters
- Plots and cross sections to include:
 - XYZ positional plots of all utilities that can be toned.
- Topographic and bathymetric plots of the survey area.
- All data will be provided in CSV and Excel formats.
- KMZ showing imagery and data.

Pricing:

The following pricing is based on a day-rate for time and materials and the estimated number of days for the project. Final pricing is subject to change based on actual number of days required to complete the survey. Project total includes reporting.

- **Mobilization / Demobilization** **\$8,500.00**
- **Day Rate** **\$8,500.00 / day**
- **Hotel and Per Diem** will be charged back at the following rates: **\$720 /crew / day**
 - \$155 lodging + \$85 misc. / per person / day.
- **Mooring, Launch and Other Misc Fees** **Cost +10%**

Project totals:

- **Mobilization / Demobilization:** **\$8,500.00**
- **Survey Days (10 day):** **\$85,000.00**
- **Hotel and Per Diem:** **\$7,200.00**
- **Estimated Total:** **\$100,700.00**

Terms & Conditions:

- This quote is valid for 30 days.

Please feel free to call or email with questions regarding this proposal or other projects. The staff at DoC Mapping are excited to work with you on this project as well as future ones.

Best Regards,

Ben Atchison

Midstream Operations

DoC Mapping LLC, New Orleans Office

503-919-0073

ben.atchison@docmapping.com

EXHIBIT "B"
METHOD OF COMPENSATION
CONTRACT NUMBER C9620 / AMENDMENT NUMBER 14

Section 2.0, COMPENSATION, is revised as follows:

SECTION 2.0 COMPENSATION

The COUNTY agrees to pay and the CONSULTANT agrees to accept, for services rendered pursuant to this Agreement, fees and other compensation as stipulated by the following:

2.1 Professional Services Fee

Amendment 13 Design Phase: \$8,367,300.74 (Lump Sum)

Amendment 13 Post-Design Phase: \$1,324,689.70 (Limiting Amount)

Amendment 14 Design Phase: \$1,242,438.93 (Lump Sum)

Total Compensation (Design Phase + Post Design Phase): \$10,934,429.37

The total compensation is exclusive of the Allowance Account. Revision to the fees are permissible, subject to the approval of the COR or designee as long as the contract ceiling is not exceeded.

2.2 – Contingency Allowance

This project is a Professional Services Agreement; therefore, an estimated Allowance Account of \$969,199.04 (Amendment 13) and \$124,243.89 (Amendment 14) is permissible, per Miami-Dade County Code Section 2-8.1. This Allowance Account will be used by the Department of Transportation and Public Works for unforeseen conditions necessitating additional Engineering services, resulting in additions to the basic fee. It is understood that any unspent portion of the allowance account is to remain with the COUNTY.

2.3 – Total Project Cost

The total Design and Post Design Cost set forth in Section 2.0 above, under the terms of this Agreement, shall be \$12,027,872.30, resulting in a total contract amount not to exceed \$15,113,035.05.