RESOLUTION NO. 26-2202

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF MIAMI LAKES, FLORIDA, WAIVING THE SOLICITATION PROCESS PURSUANT TO CHAPTER 2, ARTICLE V, DIVISION 2, SECTION 2-155(d) OF THE TOWN CODE; AUTHORIZING THE TOWN MANAGER, OR DESIGNEE, TO NEGOTIATE AND FINALIZE AN AGREEMENT WITH MIAMI LAKES AUTO MALL FOR FLEET REPLACEMENT PHASE 2; PROVIDING FOR INCORPORATION OF RECITALS; PROVIDING FOR AUTHORIZATION; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, during the February 18, 2025 regular Town Council meeting, Councilmember Steven Herzberg presented New Business Item 14a directing the Town Manager to investigate the cost and feasibility of a fleet renewal program for the Town's administrative and public service vehicles; and

WHEREAS, Town staff thereafter researched replacement costs and evaluated available options for gradually modernizing the Town's fleet in a cost-effective manner, including pricing available through State contracts, national cooperative contracts, and private dealerships; and

WHEREAS, during the September 16, 2025 regular Town Council meeting, the Town Council waived procurement requirements for the fleet replacement process and directed staff to return with proposals comparing vehicle purchase and leasing options; and

WHEREAS, during Fleet Replacement Phase 1, the Town Council approved the lease of two (2) Chevrolet Colorado vehicles and one (1) Chevrolet Silverado 1500; and

WHEREAS, the Town now desires to proceed with Fleet Replacement Phase 2, which consists of replacing the General Services Department SUV, the Parks & Recreation Arbor Truck, and the Public Works Director/Engineer's truck (collectively, the "Vehicles"); and

WHEREAS, Town staff requested and evaluated proposals through the Sourcewell cooperative purchase contract, the Florida Sheriffs Association ("FSA") cooperative purchase contract, and Miami Lakes Auto Mall; and

WHEREAS, the Sourcewell proposal from Sutton Ford provides pricing for a 2027 Ford F-150 and two (2) 2026 Ford Rangers, and the FSA/Beck Fleet proposal provides pricing and financing options for comparable Ford vehicles; and

WHEREAS, Miami Lakes Auto Mall submitted a traditional lease proposal for Chevrolet vehicles, including a 2026 Chevrolet Colorado and a 2026 Chevrolet Silverado 1500, consistent with the leasing structure previously approved by the Town Council during Fleet Replacement Phase 1; and

WHEREAS, of the three proposals received, Miami Lakes Auto Mall was the only proposer to provide a traditional lease proposal similar to the arrangement approved during Fleet Replacement Phase 1, while the other proposals consisted of a full purchase option or a financing/lease structure resulting in the full purchase price being paid over the term; and

WHEREAS, Town staff recommends that the Town Council waive the solicitation process pursuant to Chapter 2, Article V, Division 2, Section 2-155(d) of the Town Code and authorize the Town Manager, or designee, to negotiate and finalize an agreement with Miami Lakes Auto Mall for Fleet Replacement Phase 2; and

WHEREAS, the Town Council finds that proceeding with Fleet Replacement Phase 2 in the manner set forth herein serves a valid public purpose and is in the best interest of the Town.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF MIAMI LAKES, FLORIDA, AS FOLLOWS:

Section 1. Recitals Adopted. The foregoing recitals are true and correct and are hereby ratified, confirmed, and incorporated herein by this reference as if fully set forth in this Section.

Section 2. Waiver of Solicitation Process. The Town Council hereby waives the solicitation process pursuant to Chapter 2, Article V, Division 2, Section 2-155(d) of the Town Code for Fleet Replacement Phase 2.

Section 3. Authorization. The Town Council hereby authorizes the Town Manager, or designee, to negotiate and finalize an agreement with Miami Lakes Auto Mall for Fleet Replacement Phase 2, substantially consistent with the proposal attached hereto as Exhibit "A," and to execute the agreement and any related documents necessary to effectuate the purposes of this Resolution, subject to approval as to form and legal sufficiency by the Town Attorney.

Section 4. Implementation. The Town Manager, or designee, is hereby authorized to take all actions necessary to implement the purposes of this Resolution and to expend budgeted funds in connection with Fleet Replacement Phase 2, subject to the availability and appropriation of funds.

Section 5. Effective Date. This Resolution shall become effective immediately upon adoption.

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

Mayor Joshua Dieguez	Yes
Vice Mayor Bryan Morera	Yes
Councilmember Angelo Cuadra Garcia	Yes
Councilmember Ray Garcia	Yes
Councilmember Juan Carlos Fernandez	Yes
Councilmember Steven Herzberg	Yes
Councilmember Alejandro Sanchez	Yes

Passed and adopted this 15th day of September 2026.

Joshua Dieguez
Mayor

Attest:

Gina M. Inguanzo
Town Clerk

Approved as to form and legal sufficiency:

Lorenzo Cobiella
Gastesi, Lopez Mestre and Cobiella, PLLC
Deputy Town Attorney

LOCHNER

Consultant Work Order Proposal

Monday, August 31, 2026

Mr. Omar Santos Baez, P.E.
Public Works Engineer
Town of Miami Lakes
6601 Main Street, Suite 208
Miami Lakes, FL 33014

RE: Project Name – Civil Engineering and Related Services Contract 2021-43HW (Work Order No. 2)

Dear Mr. Santos:

H.W. Lochner, Inc. ("Consultant") proposes to provide the services identified below for the project entitled "Miami Lakes Drive/NW 154 St Turn Lane Extension" (Work Order No. 2) pursuant to the Professional Service Agreement with the Town of Miami Lakes ("Town") for Contract Number 2021-43HW, Civil Engineering and Related Services, dated July 12, 2022.

I. General

The Town will be lengthening the WB Miami Lakes Drive to NW 77th Ct left turn lane to improve traffic operations. As such, the Town would like for the Consultant to prepare a roadway design and deliver construction plans to improve and alleviate traffic congestion by providing additional storage capacity for the left turn lane. The professional services associated with this project includes design, permitting, bidding assistance, and post-design services. The proposed improvements will consist of lengthening the existing left turn lane and bridge widening on the intersection of NW 77th Ct and Miami Lakes Dr.

This project is a state-funded grant project, thus the contract documents must adhere to FDOT processes and protocols, including:

- Preparation of a Typical Section Package for approval.
- Phase submittals to be reviewed and responses to comments submitted via the Electronic Review Comments (ERC) platform.
- Permit submittal to Miami-Dade Transportation and Public Works Department (MDTPW) for review and approval.
- CEI activities are to be performed by a third party. FDOT does not allow for the design firm to also perform CEI activities; thus, these activities are not included in this proposal.

II. Scope of Work

Part A documents the Scope of Work per Activities; Part B details the Tasks and Deliverables per submittal.

Part A

The purpose of this Section is to describe the scope of work and the responsibilities of the CONSULTANT and the TOWN in connection with the design and preparation of a complete set of construction contract documents and incidental engineering services, as necessary, for improvements to the transportation facility described herein.

- Major work groups include:
  - ***3.1 - Minor Highway Design***
  - ***4.1.1 – Miscellaneous Structures***
  - ***4.1.2 – Minor Bridge Design***
- Minor work groups include:
  - ***7.1 - Signing, Pavement Marking and Channelization***

The general objective is for the CONSULTANT to prepare a set of contract documents including plans, specifications, supporting engineering analysis, calculations, and other technical documents in accordance with TOWN and FDOT policy, procedures and requirements. These Contract documents will be used by the contractor to build the project and test the project components. These Contract documents will be used by the TOWN or its Construction Engineering Inspection (CEI) representatives for inspection and final acceptance of the project. The CONSULTANT shall follow a systems engineering process to ensure that all required project components are included in the development of the Contract documents and the project can be built as designed and to specifications.

The Scope of Services establishes which items of work in the FDOT Design Manual and other pertinent manuals are specifically prescribed to accomplish the work included in this contract and also indicate which items of work will be the responsibility of the CONSULTANT and/or the TOWN.

The CONSULTANT shall be aware that as a project is developed, certain modifications and/or improvements to the original concepts may be required. The CONSULTANT shall incorporate these refinements into the design and consider such refinements to be an anticipated and integral part of the work. This shall not be a basis for any supplemental fee request(s).

The CONSULTANT shall demonstrate good project management practices while working on this project. These include communication with the TOWN and others as necessary, management of time and resources, and documentation. The CONSULTANT shall set up and maintain throughout the design of the project a contract file in accordance with TOWN procedures. CONSULTANTs are expected to know the laws and rules governing their professions and are expected to provide services in accordance with current regulations, codes and ordinances and recognized standards applicable to such professional services. The CONSULTANT shall provide qualified technical and professional personnel to perform to TOWN standards and procedures, the duties and responsibilities assigned under the terms of this agreement. The

CONSULTANT shall minimize to the maximum extent possible the TOWN's need to apply its own resources to assignments authorized by the TOWN.

The TOWN will provide contract administration, management services, and technical reviews of all work associated with the development and preparation of contract documents, including Construction documents. The TOWN's technical reviews are for high-level conformance and are not meant to be comprehensive reviews. The CONSULTANT shall be fully responsible for all work performed and work products developed under this Scope of Services. The TOWN may provide job-specific information and/or functions as outlined in this contract, if favorable.

The CONSULTANT shall investigate the status of the project and become familiar with concepts and commitments (typical sections, alignments, etc.) developed from prior studies and/or activities. If a Preliminary Engineering Report is available from a prior or current Project Development and Environment (PD&E) study, the CONSULTANT shall use the approved concepts as a basis for the design unless otherwise directed by the TOWN.

A breakdown of activities is shown below:

- Project General and Roadway (Activities 3, 4, and 5)
  1. Preparation of Specification Package.
  2. Preparation for Contract Maintenance and Project Documentation.
  3. Preparation of Roadway model.
  4. Preparation for Horizontal Geometry.
  5. Preparation for Roadway Quantities and Cost Estimate.
  6. Preparation of Roadway Plans.
  7. One Typical Section to be prepared.
  8. One Pavement Design to be prepared for widening.
  9. Utilize a Level I for the Temporary Traffic Control Plan (TTCP).

- Drainage (Activities 6a and 6b)
  1. The existing drainage conditions throughout the project limits consist of a closed system with curb inlets as collection points for storm water surface runoff.
  2. A drainage and existing permit analysis will be performed, and a Drainage Documentation Memorandum will be prepared documenting the impacts from the additional impervious areas as a result of the widening.
  3. Preparation of a Bridge Hydraulic Report (BHR).
  4. Replace two existing drainage structures and any design of minor cross drains or extensions to the new proposed drainage structures.
  5. Preparation of Drainage Quantities and Cost Estimate.
  6. Preparation of BHR and Drainage Detail sheets.

- Utilities Coordination (Activity 7)
  1. Utility coordination will be performed by the CONSULTANT.
  2. The CONSULTANT is responsible to certify that all necessary arrangements for utility work on this project have been made and will not conflict with the physical construction schedule.
  3. The CONSULTANT should coordinate with TOWN personnel to coordinate transmittals to Utility Companies and meet production schedules.
  4. The CONSULTANT shall ensure FDOT standards, policies, procedures, practices, and design criteria are followed concerning utility coordination.
  5. Develop a Utility Work Schedule based on a utility analysis and conflict matrix.
  6. Preparation of Utility Certification Letter.

- Structures Summary and Miscellaneous Tasks and Drawings (Activity 9, 10 and 12)
  1. Incorporate Report on Core Borings.
  2. Include existing bridge plans.
  3. Preparation of Structure Quantities and Cost Estimate.
  4. Preparation ofaTechnical Special Provisions and Modified Special Provisions.
  5. Short Span Concrete Bridge w/ approach slab analysis due to bridge widening.
  6. Pile Bent and Foundation analysis.
  7. Preparation of Structure plans and details.
  8. Preparation of Bridge Development Memorandum (BDM).
  9. Load Rating.

- Structures – Retaining Walls (Activity 17):
  1. Preparation of Retaining Wall plans and details.
  2. Retaining Wall design.
  3. Retaining Wall horizontal and vertical geometry.

- Signing and Pavement Markings (Activities 19 & 20)
  1. Preparation of S&PM plans and quantities

Part B

The purpose of this section is to provide a breakdown of the Scope of Work effort per Task required.

Task 1 – Project Initiation and 30% Line and Grade "Schematic Design"

As part of this task, the Consultant shall review and analyze existing survey obtained from FDOT project "Palmetto Expressway Segment 1, Financial Management number 435760-1". The Consultant shall visit the site to collect data and note existing conditions. The survey and information collected during the site visit will be utilized to develop the 30% Line and Grade (schematic design) plans. The design plans will be presented to the Town identifying proposed left turn lane lengthening and existing conditions. The 30% Line and Grade (schematic design) plan will be the basis for discussion with Town staff. The following plan sheets will be included in the 30% Line and Grade (schematic design) plan:

1. Key Sheeta- Project title, vicinity map, engineer of record, and other appropriate information.
2. Plan and Profile Sheets – Provide in an 11" x 17" format with a scale no smaller than 1" =40" horizontal. This plan set will include preliminary roadway layout of the lengthened left turn and serve to depict general design intent.

As part of this task, one (1) copy of roadway plans showing the survey and project location will be forwarded to each utility company known to operate in the vicinity of the Project Limits. Each utility company will be requested to return one redlined survey, identifying the horizontal and vertical location of their facilities.

Deliverables:
- Typical Section Package
- Pavement Design Package

As part of this task, the survey information will be used as the basis of design under this Task. This information will be incorporated into the 30% Line and Grade (schematic design) plan upon receipt from the utility companies. As part of this Task, the Consultant shall attend one (1) meeting with Town staff.

Task 2 – Design Development Plans

Utilizing the survey, and the 30% Line and Grade (schematic design) plan developed in Task 1 above, the Consultant shall prepare preliminary 60% design plans for the construction of roadway design improvements within the Project Limits. These Design Development Plans shall show the geometric layout on top of the base survey data. The basis for design will be the Miami-Dade County Public Works Manual and Florida Department of Transportation (the "FDOT") Standard Indexes where applicable.

- Horizontal and Vertical Geometric Analysis
- Temporary Traffic Control Plan Analysis
- Structures Analysis (BDM)
- Cost Estimate
- 30% Line and Grade (Schematic Design) Plans
- CADD files in OpenRoads Designer

The following plan sheets will be included in the Design Development Plans:

1. Key Sheet – Project title, vicinity map, engineer of record, and other appropriate information.
2. Signature Sheet
3. Estimated Quantities Report (EQR)
4. General Notes Plan
5. Typical Section
6. Plan and Profile Sheets:
    a. Provide in an 11" x 17" format with a scale no smaller than 1" =20" horizontal.
    b. Provide geometric, horizontal, and vertical alignment for the widening, and milling and resurfacing of the adjacent travel lane within the project limits.
7. Temporary Traffic Control Plan (TTCP) Details Sheets. Provide in an 11" x 17" format:

a. TTCP General Notes
b. Phasing Notes
c. TTCP Typical Sections showing work performed per phase.

8. Utility Adjustment Sheets
9. Drainage Analysis – Perform spread analysis to determine if additional inlets are required due to the lengthening of the turn lane. Prepare a Drainage Technical Memorandum that summarizes the findings.
10. Structural Analysis and plans:
    a. Prepare a BDM.
    b. Perform structural analysis for Bridge Widening.
    c. Perform structural analysis for Retaining Wall.
    d. Provide Structural Plans and Details in accordance with Structural Detail Manual (SDM).
11. Signing and Pavement Marking Plans:
    a. Provide in an 11" x 17" format with a scale no smaller than 1" =20" horizontal.
    b. Provide proposed pavement markings and signs.

Deliverables:

- 60% Design Plans
- 60% Opinion of Probable Cost (OPC)
- 60% Drainage Memorandum
- 60% Structures Plans
- CADD files in OpenRoads Designer

Task 3- Permitting and FDOT 60% Plans submittal

3.1 Coordination Meetings

The Consultant shall attend one (1) coordination meeting with representatives of FDOT during the course of the design, and permitting process if required. The intent of the meeting will be to review the proposed design, and permitting requirements, if required.

3.2 Permitting

Preparation and submittal of a Permit Involvement Form (PIF) to be submitted via the Environmental Permit Involvement Tool (EPIT) platform as required by FDOT. This document is used by FDOT to determine if any permits are required.

The Consultant shall prepare and submit permit applications to MDTPW, and to DERM if required.

- MDTPW: The package to MDTPW will consist of the roadway plans, signing and pavement marking plans for review and approval by MDTPW. Responses to comments (one set of review comments by MDTPW) will be prepared within the Final Construction Plans.
- DERM: The package to DERM, if required, will consist of the permit application form, pre-development and post-development runoff calculations, and the Design Development Plans. Responses to comments (one set of review comments by DERM) will be prepared within the Final Construction Plans. The Town will pay all permit fees directly, if required.

Deliverables:

- Permit Involvement Form to FDOT
- Permit application to MDTPW
- Permit application to DERM, if required.

Task 4- 90% Plans Submittal

Upon receipt of comments from the Design Development Plans (60% submittal) and the Permit submittals, the plans will be updated for the 90% plans submittal.

Deliverable:

- 90% Design Plans
- 90% Opinion of Probable Cost (OPC)
- 90% Drainage Memorandum
- 90% Structures Plans
- CADD files in OpenRoads Designer

Task 5- Final Construction Plans

Upon receipt of the permitting agency and FDOT comments, the 90% Plans will be upgraded to Construction Plans incorporating their comments.

Deliverables:

- Final signed and sealed Construction Plans
- Final Signed and sealed Drainage Report
- Final Signed and sealed Structures Plans
- Final signed and sealed Specifications
- Final OPC
- CADD files in OpenRoads Designer

Task 6- Bidding Assistance

The Town may use a competitive bidding process to hire a contractor to construct the improvements described in the final construction plans and contract documents. Upon request, the Consultant shall consult with and advise the Town and act as its representative for the proposed improvements during the bidding process. This task is limited to attendance at a pre-bid meeting and issuance of addenda in response to contractor questions. Once bids are received, the Consultant shall review the bids and prepare a bid tabulation sheet for use in making the recommended award.

Task 7- Post Design Activities

(Limited Construction Phase Services – Not Applicable)

As a state-funded grant project, only the Post-Design work effort is included. CEI services (Limited Construction Phase services) are performed by a third party.

Shop Drawing Review: The Consultant shall review and approve (or take other appropriate action in respect of) Shop Drawings (as that term is defined in the General Conditions of each construction contract) and samples and other data that each Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Such review and approval, or other action, shall not extend to means, methods, sequences, techniques or procedures of construction, or safety precautions and programs incident hereto. The Consultant shall perform these reviews in accordance with the standard of care of the profession at the time of service.

The Consultant shall consult with and advise the Town as to the acceptability of substitute materials and equipment that are proposed by the Contractor.

Contract Clarifications: The Consultant shall issue the Town's instructions to the Contractor, as well as issue interpretations and clarifications of the plans and specifications in connection therewith and review change orders as required.

The Consultant will review project record drawings prepared, provided, and certified by the Contractor. One set of reproducible "As-Built" drawings will be provided to the Town.

III. Subconsultants

The following Subconsultants will assist in the performance of the Services under the Agreement: Not applicable

Subconsultant's Name	Specialty of Expertise
Not applicable	
Not applicable	

IV. Schedule of Work- Time for Performance

Consultant will submit the deliverable and perform the Services as stated in the table below:

Schedule of Deliverables			
Task, Sub-Task or Activity ID #	**Major Task, Sub-Task Activity, or Deliverable**	**Duration** (specify weeks or calendar days)	**Delivery** (cumulative weeks or calendar days)
1	Project Initiation, review existing Survey, and 30% Line and Grade (Schematic Design) plans.	4 weeks	NTP + 4 weeks
2	Design Development Plans (60% Design) W/Permitting	16 weeks	NTP + 20 weeks
3	90% Submittal	12 weeks	NTP + 32 weeks
4	Final Construction Plans (100% Design)	12 weeks	NTP + 44 weeks

Deliverables: At the completion of each task the Consultant will provide to the Town all files associated with each deliverable. These files include drawing files, CADD files, ArcGIS files, and any other supporting documentation associated with each deliverable.

V. Compensation

Consultant shall perform the Work detailed in this Proposal for a total not to exceed Two Hundred Twenty-Eight Thousand, Eight Hundred Fifty-Nine Dollars and Fifty-One Cents. ($228,859.51). The Consultant will be paid based on a fixed fee basis. The Town shall not be liable for any fee, cost, expense or reimbursable expense or other compensation beyond this amount unless approved in a supplemental Work Order. Said fee includes an allowance for Reimbursable Expenses required in connection with the Work, which shall not exceed $0.00. Said Reimbursable Expenses shall be used in accordance with the Agreement Provisions and shall conform to the limitations of Florida Statutes § 112.061.

The following is a summary of the method and amount of compensation to be paid for each Task or Activity as identified in Section IV above.

Schedule of Deliverables			
Task, Sub-Task or Activity ID #	**Major Task, Sub-Task Activity, or Deliverable**	**Fee Amount**	**Fee Basis**
1	Project Initiation and 30% Line and Grade (Schematic Design).	$68,657.85	Lump Sum
2	Design Development Plans (60% Design)	$68,657.85	Lump Sum
3	90% Design Plans Submittal	$68,657.85	Lump Sum
4	Final Construction Plans (100% Design)	$22,885.96	Lump Sum
	Subtotal – Professional Fees	$228,859.51	
	Allowance for Reimbursable Expenses	$ 0.00	
	TOTAL	$228,859.51	

*Note: Compensation should match the Task, Activities, and/or Deliverables identified.

VI. Additional Services

The Town may establish an allowance for additional services requested by the Town and for unforeseen circumstances, which shall be utilized at the sole discretion of the Town.

VII. Assumptions

This Scope of Services is based on the following assumptions:

- Survey provided by FDOT, from the Palmetto Expressway Segment 1 project (FM No. 435760-1)
- Pavement cores for pavement design provided by FDOT, from the Palmetto Expressway Segment 1 project (FM No. 435760-1).
- Geotechnical information (4 cores) are to be acquired from projects FPID #435760-1-52-01 dated 2018 and FPID #230061-1-62-12 dated 2004.

VIII. Project Manager

Consultant's Project Manager for this Work Order assignment will be Alain DeQueseda, P.E.

Submitted by:

Signature

Nick Benedico, P.E. / Vice President
Name/Title

08-31-2026
Date

Town of Miami Lakes*

Dept. Approval: _____ _____
Signature Omar Santos/Public Works Director

Procurement: _____ R. Marrero
Signature Rosa M. Marrero/Procurement Manager

Town Manager: _____ _____
Signature Edward Pidermann

Work Order No.: _____

(Assigned by the Town upon approval, if applicable)
*The Town may at its sole discretion approve this Work Order Proposal by signing below of the Town may issue a separate Work Order for the Services.

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: NW 154th St to NW 77th Ct Turn Lane Extension
County: Miami-Dade
FPN: TBD
FAP No.: TBD

Consultant Name: H.W. Lochner
Consultant No.: enter consultants proj. number
Date: 8/27/2026
Estimator: Insert name

Staff Classification	Total Staff Hours From "SH Summary2 Firm"	Project Manager	Senior Engineer	Project Engineer	Engineer	Engineer Intern	0	0	0	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$200.01	$205.00	$157.67	$127.69	$102.52	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
3. Project Common and Project General Tasks	89	13	4	21	26	25	0	0	0	0	0	0	0	89	$12,614	$141.73
4. Roadway Analysis	210	32	11	50	61	56	0	0	0	0	0	0	0	210	$30,069	$143.19
5. Roadway Plans	71	11	4	17	21	18	0	0	0	0	0	0	0	71	$10,227	$144.05
6a. Drainage Analysis	246	37	12	59	71	67	0	0	0	0	0	0	0	246	$35,098	$142.67
6b. Drainage Plans	60	9	3	14	17	17	0	0	0	0	0	0	0	60	$8,536	$142.27
6c. Selective C&G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
7. Utilities	34	5	2	8	10	9	0	0	0	0	0	0	0	34	$4,871	$143.26
8. Environmental Permits,and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	208	31	10	50	60	57	0	0	0	0	0	0	0	208	$29,639	$142.49
10. Structures - Bridge Development Report	124	19	6	30	36	33	0	0	0	0	0	0	0	124	$17,740	$143.07
11.Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	340	51	17	82	99	91	0	0	0	0	0	0	0	340	$48,585	$142.90
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	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	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	152	23	8	36	44	41	0	0	0	0	0	0	0	152	$21,738	$143.01
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	54	8	3	13	16	14	0	0	0	0	0	0	0	54	$7,743	$143.39
20. Signing & Pavement Marking Plans	14	2	1	3	4	4	0	0	0	0	0	0	0	14	$1,999	$142.78
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!
27. Survey (Field & Office Support)	0	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	$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!
31. Architecture Development	0	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	$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	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	$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	1,602	241	81	383	465	432	0	0	0	0	0	0	0	1,602		
Total Staff Cost		$48,202.41	$16,605.00	$60,387.61	$59,375.85	$44,288.64	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		$228,859.51	$142.86
														Check =	$228,859.51	

Survey Field Days by Subconsultant
4 - Person Crew

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.

SALARY RELATED COSTS:					$228,859.51
OVERHEAD:		0%			$0.00
OPERATING MARGIN:		0%			$0.00
FCCM (Facilities Capital Cost Money):		0.00%			$0.00
EXPENSES:		0.00%			$0.00
Survey (Field2 if by Prime)	0	4-personcrew days @	$ -	/day	$0.00
SUBTOTAL ESTIMATED FEE:					$228,859.51
Subconsultant: Enter Name Sub 1					$0.00
Subconsultant: Sub 2					$0.00
Subconsultant: Sub 3					$0.00
Subconsultant: Sub4					$0.00
Subconsultant: Sub 5					$0.00
Subconsultant: Sub6					$0.00
Subconsultant: Sub7					$0.00
Subconsultant: Sub8					$0.00
Subconsultant: Sub9					$0.00
Subconsultant: Sub 10					$0.00
Subconsultant: Sub 11					$0.00
Subconsultant: Sub 12					$0.00
SUBTOTAL ESTIMATED FEE:					$228,859.51
Geotechnical Field and Lab Testing					$0.00
SUBTOTAL ESTIMATED FEE:					$228,859.51
Optional Services					$0.00
GRAND TOTAL ESTIMATED FEE:					$228,859.51

Project Activity 3: General Tasks

Estimator: Alain De Quesada, P.E.

NW 154th St to NW 77th Ct Turn Lane Extension
TBD

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, P.E.	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					Public involvement and all related components will be the responsibility of the Town of Miami Lakes.
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	0	0	
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	
3.1.12	Web Site	LS	1	0	0	
	3.1 Public Involvement Subtotal				**0**	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications & Estimates					
3.3.1	Specifications Package Preparation	LS	1	20	20	Prepare Spec's Package at Production
3.3.2	Estimated Quantities Report Preparation	Report	0	Calculated Hours	0	N/A
		Components	0	0		
3.4	Contract Maintenance and Project Documentation	LS	1	56	56	Includes project management efforts for complete setup and maintenance of files, electronic folders and documents, developing technical monthly progress reports, schedule updates and compilation and submittal of project documentation. nitial set-up estimated at 16 hours; 3 hours per month (estimated 12 months) for update/maintenance and 4 hours for final project documentation
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	13	13	See listing below
3.7	Plans Update	LS	1	0	0	N/A

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	TO BE NEGOTIATED AT A LATER TIME
3.9	Digital Delivery	LS	1	0	0	N/A
3.10	Risk Assessment Workshop	LS	1	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	N/A
3.11.1	Aeronautical Evaluation	LS	1	0	0	N/A
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	N/A
3.13	Other Project General Tasks	LS	1	0	0	N/A
	3. Project Common and Project General Tasks Total				89	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/Unit	Total Hours	Comments
Roadway Analysis	EA	2	1	2	1 Meeting with the Town of Miami Lakes _TEAMS
Drainage	EA	1	1	1	Meetings with all Water management entities (DERM \ SFWMD)
Selective C&G	EA	0	0	0	N/A
Utilities	EA	0	0	0	N/A
Environmental	EA	2	1	2	1 Meeting with the environment agency (DERM)
Structures	EA	0	0	0	N/A
Signing & Pavement Marking	EA	0	0	0	N/A
Signalization	EA	0	0	0	N/A
Lighting	EA	0	0	0	N/A
Landscape Architecture	EA	0	0	0	N/A
Survey	EA	0	0	0	N/A
Photogrammetry	EA	0	0	0	N/A
ROW & Mapping	EA	0	0	0	N/A
Terrestrial Mobile LIDAR	EA	0	0	0	N/A
Architecture	EA	0	0	0	N/A
Noise Barriers	EA	0	0	0	N/A
ITS Analysis	EA	0	0	0	N/A
Geotechnical	EA	0	0	0	N/A
Progress Meetings	EA	4	1	4	4 progress Meeting every 3 months.
Phase Reviews	EA	0	0	0	N/A
Field Reviews	EA	2	2	4	1 Meeting @ 4 Hours that includes travel time
Total Project Manager Meetings		11		13	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.

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, 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)			Upper					
4.1	Typical Section Package	Cover	1		6	0	6	0	6 hours for the cover/data sheet and location map.
		Typical	0	2-Lane FS & Ramps	0	0	0	0	N/A
		Typical	1	2-Lane C & Multi-Lane FS	8	0	8	0	8 hours per typical section for multi-lane curbed roadway
		Typical	0	LA w/ Barrier & Multi-Lane C	0	0	0	0	N/A
4.2	Pavement Type Selection Report	Report	0		0	0	0	0	N/A
4.3	Pavement Design Package	Report & Assembly	1	Below	16	0	16	0	Includes pavement type selection and all necessary coordination to resolve issues related to pavement design
		Pavt Designs	1	Travel/Aux. Lanes	8	0	4	0	Widening Pavement Design
		Pavt Designs	1	Other Roads & Shoulders	4	0	4	0	M&R Pavement Design
4.4	Cross Slope Analysis (lanes and shoulders)	X-Slope Assessment	0.00	Undivided Roadway	0	0	0	0	N/A
		X-Slope Assessment	0.07	Divided Roadway	1	0	0	0	Cross Slope correction is not anticipated. We are to tie into existing pavement cross slopes and match adjacent lane cross slopes.
		Concepts for Corrections	0		0	0	0	0	N/A
4.5	Safety Analysis	HSM Assessment	0		0	0	0	0	N/A
		Crash Analysis	0		0	0	0	0	N/A
4.6	Design Analysis	Monitor Exst Structures	0	Low	0	0	0	0	N/A
		Access Management	0.00	Low	0	0	0	0	N/A
4.7	Operational Analysis	Roundabout	0	1x1 Roundabout	0	0	0	0	N/A
		Roundabout	0	1x2 Roundabout	0	0	0	0	N/A
		Roundabout	0	2x2 Roundabout	0	0	0	0	N/A
4.8	Design Reports	RRR	0		0	0	0	0	N/A
		Other Reports			0	0	0	0	N/A
4.9	Design Variations and Exceptions	Variation Memo	0		0	0	0	0	N/A
		Formal Variation	0		0	0	0	0	N/A
		Design Exception	0		0	0	0	0	N/A
4.10	Master Design File Setup & Maintenance, Model Management Plan	LS	1	Below	20	0	20	0	Includes efforts required for initial set-up of the horizontal-vertical master design file and maintenance of the design file throughout the life of the design
4.11	Horizontal /Vertical Master Design Files	Mainline	0.07	Low	13	0	10	0	All efforts required for establishing the master design files for the horizontal and vertical geometry, drainage structure features, utilities (including conflict location identification and adjustments)
		Side Road & Ramps	0.00	Low	0	0	0	0	N/A
		Frontage Road	0.00	Low	0	0	0	0	N/A
	3D Modeling Development	Mainline	0.00	Low	0	0	0	0	N/A
		Side Road & Ramps	0.07	Low	7	0	10	0	Based on project elements to be designed in 3D for the 3D model.
		Frontage Road	0.00	Low	0	0	0	0	N/A
		AMG Files	0	Low	0	0	0	0	N/A

4.12	TTCP Analysis	LS	1	Low	20	0	20	0	Includes all work necessary to develop a TTCP concept, such as determining the usage of lane closures, detours, diversions, lane shifts, retaining walls, and pedestrian TTCP. First phase to allow for pavement widening and bridge widening and second phase for M&R
	TTCP Master Design Files	Length (Phase-Miles)	0.07	Upper	3	0	5	0	Develop master TTCP files showing each phase of the TTCP. Includes all work necessary for designing lane configurations/lane shifts detours, signing and pavement markings and temporary traffic control devices.
		Pedestrian	0		0	0	0	0	N/A
	TTCP 3D Modeling (Isolated Locations)	Locations	0		0	0	0	0	N/A
4.13	Utility Data Collection & Analysis	LS	1	Low	6	0	6	0	Includes time for EOR to collect, analyze, and coordinate utility data. Includes reviewing the Utility Work Schedule (UWS) and developing utility conflict information.
4.14	Roadway Quantities for EQ Report	Length (Miles)	0.07	Below	1	0	2	0	Includes all work required to determine and tabulate roadway pay items and quantities. Includes creating the Excel summary tables through the Quantity Takeoff Manager (QTM), fully populating the tables with estimated quantities
		Interchanges Rest Areas	0		0	0	0	0	N/A
		Validation	1	Below	32	0	32	0	N/A
	TTCP Quantities for EQ Report	Major Phases	1	Simple	6	0	6	0	Includes all work required to determine and tabulate temporary traffic control pay items and quantities. Includes creating the Excel summary tables through the Quantity Takeoff Manager (QTM), fully populating the tables with estimated quantities
4.15	Cost Estimate	Engineer Estimate	4	Below	32	0	20	0	Preparing an initial cost estimate, and updating as necessary
		LRE Updates	0	Low	0	0	0	0	N/A
4.16	Technical or Modified Special Provisions	TSPs & MSPs	0		0	0	0	0	N/A
4.17	Other Roadway Tasks	Other Analysis			0	0	0	0	N/A
	Roadway Analysis Technical Subtotal				**183**	**0**	**159**	**0**	
4.18	Quality Assurance/Quality Control	LS	1	5%	10	0	8	0	
4.19	Supervision	LS	1	5%	10	0	8	0	
4.20	Roadway Meetings (listed below)	Meetings	12		24	0	12	0	See Technical Meetings Below. 1 Hour per meeting
		Travel Time			0	0	0	0	
4.21	Field Reviews (listed below)	LS			4	0	4	0	See Technical Meetings Below. 1 Hour per meeting
	Roadway Analysis Non-Technical Subtotal				**48**	**0**	**34**	**0**	
4.22	Coordination	LS	1	3%	7	0	7	0	
	4. Roadway Analysis Total				**238**	**0**	**210**	**0**	

Technical Meetings	# Meetings Designer	Travel Time (Hours)	# Meetings PM	Documentation
Typical Section	1	0	1	Typical Section Approval
Pavement Design	1	0	1	Pavement Design Approval
Access Management / Driveways	0	0	0	
15% Line and Grade	0	0	0	
RRR / ECAR Resolution	0	0	0	
Local Governments (cities, counties, MPO)	2	0	0	Meeting with Town of Miami Lakes for updates and progress.
Work Zone Traffic Control	0	0	0	
30/60/90/100% Comment Review Meetings	3	0	0	Meeting before every submittal
Utility Coordination	1	0	0	Coordination with all UAO
Other Meetings	0	0	0	
Subtotal Technical Meetings	**8**	**0**	**2**	
Progress Meetings (if required by FDOT)	4	0		
Phase Review Meetings	0	0		
Total Roadway Meetings	**12**	**0**		

Field Reviews	# of Staff	Site Time (per staff)	Travel Time (per staff)	Total Hours
Field Review #1	2	1	0	2
Field Review #2	2	1	0	2
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				**4**

Estimator: Alain De Quesada, P.E.

5. Roadway Plans Staff Hours

NW 154th St to NW 77th Ct Turn Lane Extension TBD

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, 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		1		4	0	4	0	Includes creating and delivering the Key Sheet & Signature Sheet
	Signature Sheet		1		2	0	2	0	
5.2	Typical Section Sheets	Typical Sections w/ CADD	1		4	0	4	0	Includes creating and delivering the Typical Sections Sheets. Includes placing standard details.
		Typical Sections w/o CADD	0		0	0	0	0	N/A
		Partial Sections	0		0	0	0	0	N/A
5.3	Cross Slope Correction Details	Pavement Segments	1		8	0	0	0	Cross Slope correction is not anticipated. We are to tie into existing pavement cross slopes and match adjacent and cross slopes.
5.4	General Notes/Pay Item Notes		1	Simple	6	0	6	0	Includes creating and delivering the General and Pay Item Notes Sheet
5.5	Model Management		1		0	0	0	0	N/A
	Project Layout		0		0	0	0	0	N/A
5.6	Plan View (Plan Sheets)	Sheet(s)	2	Below	4	0	3	0	Approximately 450' of total roadway improvements. 1 sheet to cover 350'
		Interchange	0		0	0	0	0	N/A
		Roundabout	0		0	0	0	0	N/A
5.7	Profile View (Plan/Profile Sheets)	Sheet(s)	0	Flush Shoulder	0	0	0	0	N/A
		Sheet(s)	0	Curbed	0	0	0	0	N/A
5.8	Special Profiles	Driveway Curb Return	0		0	0	0	0	N/A
		Intersection R/Xing	0		0	0	0	0	N/A
5.9	Sidewalk Profiles	Sheet(s)	0		0	0	0	0	N/A

5.10	Interchange Layout Sheet	Interchange	0	Standard 2 Levels	0	0	0	0	N/A
			0	Complex 3+ Levels	0	0	0	0	N/A
5.11	Details	Ramp Terminal	0		0	0	0	0	N/A
		Intersection Layout	1		12	0	12	0	Tie into existing intersection after widening
		Special	0		0	0	0	0	N/A
5.12	Soil Survey Sheets		1		2	0	2	0	Includes creating and delivering the Soil Survey Sheets. Using FPID 4357660-1-52-01 from 2019
5.13	Cross Sections		2	Below	1	0	1	0	Includes creating and delivering 2 Cross Sections before and after the bridge.
5.14	Temporary Traffic Control Plan	TTC Notes	1		2	0	2	0	Includes creating and delivering the Temporary Traffic Control Plan Sheets. Based on 2 hours for TTC Notes Sheets and 2 hours per sheet for phasing steps and phasing typical sections.
		Phasing Notes & Typicals Sheet(s)	2		8	0	8	0	
		TTC Plan Sheet(s)	0	Below	0	0	0	0	N/A
		Critical Cross Sections	0		0	0	0	0	N/A
		TTC Details	1		8	0	8	0	Detail to provide adequate area for contractor to widen the bridge
5.15	Utility Adjustment Sheets	Sheet(s)	2	Simple	6	0	3	0	Includes creating and delivering the Utility Adjustment Sheets
5.16	Project Control Sheets		1		4	0	4	0	BL survey used from FPID 4357660-1-52-01 from 2019
5.17	Utility Verification Data (SUE)		1		4	0	4	0	16-47 B,ST,B,ured conduit detected from FPID 4357660-1. SUE needed if piers impacting ocation.
Roadway Plans Technical Hours Subtotal					**75**	**0**	**63**	**0**	
5.18	Quality Assurance/Quality Control	%	1	5%	4	0	4	0	
5.19	Supervision	%	1	5%	4	0	4	0	
Roadway Plans Total					**83**	**0**	**71**	**0**	

Estimator: Alain De Quesada, P.E.

6a. Drainage Analysis Staff Hours

NW 154th St to NW 77th Ct Turn Lane Extension

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, 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.
6a.1	Base Clearance Analysis	Locations	0		0	0	0	0	N/A
		Report	0		0	0	0	0	N/A
6a.2	Hydroplaning Analysis	LS	0		0	0	0	0	N/A
6a.3	Existing Permit Analyses	LS	1	Standard	12	0	12	12	Includes all efforts required for Existing Permit Analysis. Including tasks of preliminary analysis of local, state, and federal Drainage permits
6a.4	Utility Conflict Matrix (for drainage structures)	LS	1	Standard	8	0	8	8	Includes all efforts for populating and coordination of the Utility Conflict Matrix for all drainage structures
6a.5	Noise Barrier Drainage Analysis	Wall Length (Miles)	0.00		0	0	0	0	N/A
6a.6	Temporary Drainage Analysis	LS	0		0	0	0	0	N/A
6a.7	Pond Siting Analysis and Report	Basins	0		0	0	0	0	N/A
		Report	0		0	0	0	0	N/A
6a.8	Analysis of Pipe Video Inspection Report	LS	0		0	0	0	0	N/A
6a.9	Bridge Hydraulic Report (Canal Crossing or Ped Bridge)	Canal Xing or Ped Bridge	1	Simple	60	0	60	60	Includes all efforts for a Bridge Hydraulic Report for controlled canal crossings
	Bridge Hydraulic Report (Main Bridge, Non-Tidal)	w/o Rail of Bridges	0	Simple	0	0	0	0	N/A
		With Rail of Bridges	0		0	0	0	0	N/A
		No-Rise	0		0	0	0	0	N/A
	Bridge Hydraulic Report (Main Bridge, Tidal)	w/o Rail of Bridges	0		0	0	0	0	N/A
		With Rail of Bridges	0		0	0	0	0	N/A
		No-Rise	0		0	0	0	0	N/A
	Wave Modeling	Wave Modeling	0		0	0	0	0	N/A
6a.10	Design of Minor Cross Drains	Cross Drains	2	Simple	14	0	14	14	Includes all efforts for the Design of Minor Cross Drains. All extensions and most new/replacement structures with no known scouring or flooding problems, needing minimal hydrologic effort
			0	Standard	0	0	0	0	N/A
			0	Complex	0	0	0	0	N/A
	Design of Major Cross Drains	CrossDrains	0	Simple	0	0	0	0	N/A
			0	Standard	0	0	0	0	N/A
			0	Complex	0	0	0	0	N/A
6a.11	Design of Ditches and Side Drains	Ditches (Miles)	0.00	Simple	0	0	0	0	N/A
			0.00	Standard	0	0	0	0	N/A
			0.00	Complex	0	0	0	0	N/A
		Side Drains	0		0	0	0	0	N/A

6a.12	Design of Stormwater Management Facility	Ponds	0	Simple	0	0	0	0	N/A
			0	Standard	0	0	0	0	N/A
			0	Complex	0	0	0	0	N/A
		Culs	0		0	0	0	0	N/A
6a.13	Design of Floodplain Compensation	Basins	0		0	0	0	0	N/A
6a.14	Design of Storm Drains	Drainage Structures	2	Simple	6	0	6	6	2 existing drainage structures to be replaced
		Non-Standard Structures	0		0	0	0	0	N/A
6a.15	Optional Culvert Material	Drainage Pipes	0		0	0	0	0	N/A
6a.16	Design of French Drains	Each	0		0	0	0	0	N/A
6a.17	Design of French Drain Systems	Cell	0		0	0	0	0	N/A
	Evaluation of Existing French Drain Systems	Cell	0		0	0	0	0	N/A
6a.18	Design of Drainage Wells	Wells	0		0	0	0	0	N/A
6a.19	Stormwater Runoff Control Concept	Length(Miles)	0.00		0	0	0	0	N/A
6a.20	Other Drainage Tasks	LS			0	0	0	0	N/A
6a.21	Drainage Design Documentation Report	Report	1	Standard	40	0	40	40	This task is for writing and developing the report. Calculations are to be included in the report.
		Exhibits	1		8	0	8	8	N/A
6a.22	Drainage Quantities for EO Report	LS	1	Standard	30	0	30	30	Includes all work required to determine and calcate drainage pay items and quantities. Includes creating the Excel summary table through the Quantity Takeoff Manager (QTM), fully populating the tables with the estimated quantities and delivering the Excel file.
6a.23	CostEstimate	Engineer Estimate	4	Standard	20	0	20	20	Prepare cost estimates for the drainage components
		LREUpdates	1	Standard	4	0	4	4	Continuous update to cost estimates
6a.24	Technical or Modified Special Provisions	FSPs&dSPs	0		0	0	0	0	N/A
				Drainage Analysis Technical Subtotal	202	0	202	202	
6a.25	Quality Assurance/Quality Control	LS	1	5%	11	0	11	11	
6a.26	Supervision	LS	1	5%	11	0	11	11	
6a.27	Drainage Meetings (listed below)	Meetings	2		4	0	4	4	
		Travel Time			2	0	4	4	
6a.28	Field Reviews (listed below)	LS			8	0	8	8	
				Drainage Analysis Non-Technical Subtotal	34	0	36	36	
6a.29	Coordination	%	1	3%	8	0	8	8	
				Drainage Analysis Total	244	0	246	246	

Technical Meetings	# Meetings Designer	Travel Time (Hours)	# Meetings PM	Documentation
Base Clearance Water Elevation	0	0	0	
Pond Siting	0	0	0	
Agency	0	0	0	
Local Governments (cities, counties)	2	2	1	
FDOT Drainage	0	0	0	
Utility/Coordination	0	0	0	
Other/Meetings	0	0	0	
Subtotal Technical Meetings	2	2	1	
Progress Meetings (if required by FDOT)	0	0		
Phase Review Meetings	0	0		
Total Drainage Meetings	2	2		

Field Reviews	# of Staff	Site Time (per staff)	Travel Time (per staff)	Total Hours
Field Review #1	2	2	1	6
Field Review#2	0	0	0	0
Field Review#3	0	0	0	0
FieldReview#4	0	0	0	0
Plans-in-hand Field Review	0	0	0	0
			Total Field Review Hours	6

6b. Drainage Plans

Estimator: Alain De Quesada, P.E.	6b. Drainage Plans Staff Hours	NW 154th St to NW 77th Ct Turn Lane Extension TBD

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, 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.
6b.1	Drainage Map (Including Interchanges)	Sheet(s)	0	Standard	0	0	0	0	N/A
6b.2	Bridge Hydraulics Recommendation Sheets	Bridges	1		32	0	32	0	Includes creating and delivering the Bridge Hydraulics Recommendation Sheets. Based on 32 hours per bridge.
6b.3	Drainage Structures	Drainage Structures	2		19	0	19	0	Includes creating and delivering the Drainage Structures sheets. Includes work for Drainage Plan View, Drainage Profiles, Drainage Cross Sections, Drainage Tabular Information, and Optional Materials Tabulation.
		Details	1		3	0	3	0	Detail for outfall located near the wideining.
6b.4	Lateral Ditches	Ditches	0	Standard	0	0	0	0	N/A
			0	Complex	0	0	0	0	N/A
		Cross Section Alignments	0		0	0	0	0	N/A
6b.5	Retention/Detention/Floodplain Compensation Ponds	Ponds	0	Standard	0	0	0	0	N/A
			0	Complex	0	0	0	0	N/A
		Cross Section Alignments	0		0	0	0	0	N/A
	Drainage Plans Technical Subtotal				**54**	**0**	**54**	**0**	
6b.6	Quality Assurance/Quality Control	%	1	5%	3	0	3	0	
6b.7	Supervision	%	1	5%	3	0	3	0	
	Drainage Plans Total				**60**	**0**	**60**	**0**	

Project Activity 7: Utilities

Estimator: Alain De Quesada, P.E.

NW 154th St to NW 77th Ct Turn Lane Extension
TBD

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, P.E.	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours		Comments
7.1	Utility Kickoff Meeting	LS	1	0	0	Meeting is listed below	
7.2	Identify Existing Utility Agency Owner(s)	LS	1	4	4	Contact Sunshine 811 and identify all utilities in the corridor	
7.3	Make Utility Contacts	LS	1	10	10	First Contact - Send letters and plans to each UAO. Third Contact - Identify agreements and assemble packages. Second Contact - Send Phase II plans and the utility conflict information (if applicable) to each UAO having facilities located within the project limits.	
7.4	Exception Processing	LS	1	0	0	N/A	
7.5	Preliminary Utility Meeting	LS	1	2	2	Meeting is listed below	
7.6	Individual/Field Meetings	LS	1	0	0	Meetings are listed below	
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	8	8	Review UAO's marked plans and data individually as they are received for content, accuracy, utility type, material, and size. Incorporate in construction plans.	
7.8	Subordination of Easements Coordination	LS	1	0	0		
7.9	Utility Design Meeting	LS	1	2	2	Meeting is listed below	
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	1	4	4	Review utility marked-up plans and work schedules as they are received for content. Existing 16-4" BST Buried conduit detected from FPID 4357660-1	

Project Activity 7: Utilities

7.11	Utility Coordination/Followup	LS	1	0	0	N/A
7.12	Utility Constructability Review	LS	1	0	0	N/A
7.13	Additional Utility Services	LS	1	0	0	N/A
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	N/A
7.15	Contract Plans to UAO(s)	LS	1	0	0	N/A
7.16	Certification/Close-Out	LS	1	4	4	preparation of the Utility Certification Letter.
7.17	Other Utilities	LS	1	0	0	N/A
				7. Utilities Total	**34**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	0	0	0			0
Preliminary Meeting (see 7.5)	EA	1	2	2			0
Individual UAO Meetings (see 7.6)	EA	0	0	0			0
Field Meetings (see 7.6)	EA	0	0	0			0
Design Meeting (see 7.9)	EA	1	2	2			0
Other Meetings *(this is automatically added into Utilities Total (cell F27))*	EA	0	0	0			0
Total Meetings				**4**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to Tab 3

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Estimator: Roberto Gonzalez, P.E.

NW 154th St to NW 77th Ct Turn Lane Extension

TBD

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, P.E.	

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	4	2	8	KeySheetwith sheet index, Signature Sheet
9.2	Project Layout	Sheet	0	0	0	0	
9.3	General Notes and Bid Item Notes	Sheet	2	16	2	32	2 Sheet General Notes and 1Sheet Bid Item notes and concrete surface finish details
9.4	Miscellaneous Common Details	Sheet	0	0	0	0	
9.5	Incorporate Report of Core Borings	Sheet	1	1	1	1	1 sheetof core borings for a single bridge
9.6	Standard Plans- Bridges	LS	1	1		1	Include standard plans for a single bridge
9.7	Existing Utility Plans	LS	1	4		4	Include existing utility plans for junction, widening, there are 4 sheets for a single bridge. Plans since this bridge was modified in 2007.
9.8	Structures Quantities for EQ Report	Bridges	1	Calculated Hours		24	Addthewald hours added for EQ report on the phase II submittal
		Walls	2				
		Box Culverts	0	20			
9.9	Cost Estimate	LS	1	8		8	LRE, RDR, Cost Estimates and Quantity updates in all Submittals
9.10	Technical Special Provisions for Bridge Repair and Painting	LS	1	12		12	TSP for Painting
	Structures - Summary and Miscellaneous Tasks and Drawings				5	90	

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 1	464	124		340						
10.16	Bridge 2	0									
10.16	Bridge 3	0									
10.16	Bridge 4	0									
10.16	Bridge 5	0									
10.16	Bridge 6	0									
10.16	Bridge 7	0									
10.16	Bridge 8	0									
10.16	Bridge 9	0									
10.16	Bridge 10	0									
17	Retaining Walls	152								152	
18	Miscellaneous Structures	0									
	Structures Technical Subtotal	616	124	0	340	0	0	0	0	152	0

Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments
9.11	Field Reviews	LS	1	12	12	One field visit with 2 people at 6 hours per person = 12 hours total
9.12	Technical Meetings	LS	1	16	16	Meetings are listed below
9.13	Quality Assurance/Quality Control	LS	½	5%	35	
9.14	Independent Peer Review	LS	1	0	0	
9.15	Supervision	LS	½	5%	35	
	Structures Nontechnical Subtotal				98	
9.16	Construction	LS	1	20	20	8 hours for roadway connection, 4 hours for MW coordination with utilities for construction with bridge maintenance, 4 hours for bridge inspection coordination
	9. Structures - Summary and Miscellaneous Tasks and Drawings				208	

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
BDR Coordination/Review	EA	1	4	4			0
90/100% Comment Review	EA	1	4	4			0
Assthtics Coordination	EA	0	0	0			0
Regulatory Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	1	4	4			0
Utility Companies	EA	1	4	4			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				16			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				16	**Total Project Manager Meetings (carries to Tab 3)**		0

Connects to 9.12 | Connects to Tab 3

Project Activity 10: BDR

Estimator: Roberto M. Gonzalez, P.E.
Bridge Identifier (Number or Name): 870538

NW 154th St to NW 77th Ct Turn Lane Extension
TBD

Representing	Print Name	Signatured Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, P.E.	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	No.of Sheets	Total Hours	Comments
	General Requirement						
10.1	Bridge Geometry	LS	1	8		8	Single bridge straight no skewconstant width
10.2	Ship Impact Data Collection	LS	1	0		0	N/A
10.3	Ship Impact Criteria	EA	0	0		0	N/A
	Superstructure Alternatives						
10.4	Short Span Concrete Bridge	EA ALT	1	8		8	Widening simple span flat slab concrete bridge. normal ends, constant width. no curvature.
10.5	Medium Span Concrete Bridge	EA ALT	0	0		0	N/A
10.6	Long Span Concrete Bridge	EA ALT	0	0		0	N/A
10.7	Structural Steel Bridge	EA ALT	0	0		0	N/A
	Foundation & Substructure Alternatives						
10.8	Pier/Bent	EA Type	1	8		8	Pile Bent
10.9	Shallow Foundations / GRS Abutments	EA Type	0	0		0	N/A
10.10	Deep Foundations	EA Foundation Evaluated	1	4		4	18" prestressed concrete pile to match existing
	Movable Span						
10.11	Data Collection and Design Criteria	LS	1	0		0	N/A
10.12	Movable Span Geometrics and Clearances	LS	1	0		0	N/A
10.13	Deck System Evaluation	LS	1	0		0	N/A
10.14	Framing Plan Development	LS	1	0		0	N/A
10.15	Main Girder Preliminary Design	LS	1	0		0	N/A
10.16	Conceptual Span Balance/Counterweight	LS	1	0		0	N/A

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
10.17	Support System Development	LS	1	0		0	N/A
10.18	Drive Power Calculations	LS	1	0		0	N/A
10.19	Drive System Development	LS	1	0		0	N/A
10.20	Power and Control Development	LS	1	0		0	N/A
10.21	Conceptual Pier Design	LS	1	0		0	N/A
10.22	Foundation Analysis (FL PIER)	LS	1	0		0	N/A
10.23	Tender Visibility Study	LS	1	0		0	N/A
	Other BDR Issues						
10.24	Aesthetics	LS	1	2		2	Matching existing bridge Aesthetics
10.25	TTCP/Staged Construction Requirements	LS	1	6		6	Widening existing bridge with two phase construction
10.26	Constructibility Requirements	LS	1	4		4	Widening simple span flat slab concrete bridge, normal ends, constant width, no curvature.
10.27	Load Rating for damaged/widened structures	EA Unit	1	0		0	Covered in task 12.28
10.28	Quantity and Cost Estimates	EA ALT	1	8		8	18" concrete pile cost estimate
10.29	Quantity and Cost Estimates - Movable Span	LS	1	0		0	N/A
10.30	Wall Type Justification	LS	1	8		8	Modification of existing bulkhead wall to keep existing bulkhead panels
	Report Preparation						
10.31	Exhibits	EA SHEET	4	10		40	Plan & Elevation, Pile Bent, Typical Section, Construction Sequence
10.32	Exhibits - Movable Span	EA SHEET	0	0		0	N/A
10.33	Report Preparation	LS	1	24		24	Brief write up - Bridge Development Memo. No Load Rating Report, No strengthening recommendation.
10.34	Report Preparation - Movable Span	LS	1	0		0	N/A
10.35	BDR Submittal Package	LS	1	4		4	
	10. Structurese Bridge Development Report Total					**124**	
	When ONLY 30% plans are final deliverable, use Task Nos. as shown for applicable bridge types for project Activities 12 thru 16. Staffhours to be negotiated and scaled appropriately.						

Project Activity 12: Structures- Short Span Concrete

Estimator: Roberto Gonzalez, P.E.

Bridge Identifier (Number or Name):

NW 154th St to NW 77th Ct Turn Lane Extension

TBD

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, P.E.	

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						
12.1	Overall Bridge Final Geometry	LS	1	8		8	Single bridge straight no skew constant width
12.2	Expansion/Contraction Analysis	EA Unit	1	2		2	Single bridge straight no skew constant width
12.3	General Plan and Elevation	Sheet	1	26	1	26	Single bridge straight no skew constant width
12.4	Construction Staging	Sheet	2	18	2	36	Two stage construction for bridge widening
12.5	Approach Slab Plan and Details	Sheet	1	18	1	18	Widening existing approach slabs including bar bending details and quantities
12.6	Miscellaneous Details	Sheet	2	11	2	22	1 sheet Load rating sheet, 1 sheet expansion joint details and conduit details
	End Bent Design and Plans						
12.7	End Bent Geometry	EA End Bent	2	4		8	2 end bents normal end condition
12.8	End Bent Structural Design	EA Design	1	16		16	One design for both end bents
12.9	End Bent Plan and Elevation	Sheet	2	16	2	32	One plan and elevation sheet per end bent normal end condition
12.10	End Bent Details	Sheet	2	10	2	20	1 Sheet Pile bent details for reinforcing bar list, 1 Sheet section views and wing wall detail
	Intermediate Bent Design and Plans						
12.11	Bent Geometry	EA Bent	0	0		0	N/A
12.12	Bent Stability Analysis	EA Analysis	0	0		0	N/A
12.13	Bent Structural Design	EA Design	0	0		0	N/A
12.14	Bent Plan and Elevation	Sheet	0	0	0	0	N/A
12.15	Bent Details	Sheet	0	0	0	0	N/A

Project Activity 12: Structures- Short Span Concrete

Task No.	Task	Units	No.of Units	Hours/ Unit	No.of Sheets	Total Hours	Comments
	Miscellaneous Substructure Design and Plans						
12.16	Foundation Layout	Sheet	2	14	2	28	Widening bridge straight no skew constant width need to tie into existing bridge geometry. Foundation Layout and Pile Data Table
	Miscellaneous Superstructure Design and Plans						
12.17	Finish Grade Elevation Calculation	LS	1	12		12	Single bridge straight no skew constant width. best fit curve required for survey points
12.18	Finish Grade Elevations	Sheet	1	12	1	12	One sheet for bridge and approach slab plan views and sections elevations provided on the sheet
	Cast-in-Place Slab Bridges						
12.19	Bridge Deck Design	EA Unit	1	26		26	Flat slab single span concrete deck, normal ends, constant width, no curvature.
12.20	Superstructure Plan	Sheet	1	16	1	16	Plan and section view of proposed flat slab deck widening
12.21	Superstructure Sections and Details	Sheet	1	16	1	16	Slab Deflection Details, doweled bar details & end bent section for superstructure connection, barrier details, typical section and reinforcement.
	Prestressed Slab Unit Bridges						
12.22	Prestressed Slab Unit Design	EA/Design	0	0		0	N/A
12.23	Prestressed Slab Unit Layout	Sheet	0	0	0	0	N/A
12.24	Prestressed Slab Unit Details and Schedule	Sheet	0	0	0	0	N/A
12.25	Deck Topping Reinforcing Layout	Sheet	0	0	0	0	N/A
12.26	Superstructure Sections and Details	Sheet	0	0	0	0	N/A
	Reinforcing Bar List						
12.27	Preparation of Reinforcing Bar List	Sheet	2	10	2	20	2 sheets to include end bents, approach slab, deck, and bulkhead wall reinforcement.
	Load Rating						
12.28	Load Ratings	EA/Unit	1	22		22	widening of a single flat slab
	12. Structures- Short Span Concrete Bridge Total				**17**	**340**	

Project Activity 17: Retaining Walls

Estimator: Roberto Gonzalez, P.E.

NW 154th St to NW 77th Ct Turn Lane Extension
TBD

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, P.E.	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	General Requirements						
17.1	Key Sheet	Sheet	0	0	0	0	N/A
17.2	Horizontal Wall Geometry	Per Wall	2	6		12	Existing bulkhead walls to be modified by bridge widening
	Permanent Proprietary Walls						
17.3	Vertical Wall Geometry	Per Wall	0	0		0	N/A
17.4	Semi-Standard Drawings	Sheet	0	0	0	0	N/A
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	N/A
17.6	Details	Sheet	0	0	0	0	N/A
	Temporary Proprietary Walls						
17.7	Vertical Wall Geometry	Per Wall	2	8		16	Temporary critical wall for phased construction and tieback installation for end bent and bulkhead walls
17.8	Semi-Standard Drawings	Sheet	1	8	1	8	Temporary critical wall design
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	1	12	1	12	Temporary critical wall for phased construction show both walls on one sheet
17.10	Details	Sheet	2	10	2	20	Temporary critical wall general notes, Temporary critical wall table and wall section

Project Activity 17: Retaining Walls

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Cast-in-Place Retaining Walls						
17.11	Design	EA Design	0	0		0	N/A
17.12	Vertical Wall Geometry	EA Wall	0	0		0	N/A
17.13	General Notes	Sheet	0	0	0	0	N/A
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	N/A
17.15	Sections and Details	Sheet	0	0	0	0	N/A
17.16	Reinforcing Bar List	Sheet	0	0	0	0	N/A
	Other Retaining Walls and Bulkheads						
17.17	Design	EA Design	2	12		24	Concrete panel location and design, redesign of soldier panels for new foundation configuration and strut for temporary bracing of bulkhead wall panels.
17.18	Vertical Wall Geometry	EA Wall	2	4		8	Match existing bulkhead wall elevations and tie existing panel to new end bent cap.
17.19	General Notes, Tables and Misc. Details	Sheet	1	4	1	4	Bulkhead wall general notes, requirements for wall panels
17.20	Wall Plan and Elevations	Sheet	2	8	2	16	Two bulkhead walls to be modified by bridge widening and pile installation
17.21	Details	Sheet	2	16	2	32	Bulkhead wall typical section, deadman anchor system, deadman details, cap details and temporary bracing.
	17. Structures - Retaining Walls Total				**9**	**152**	

Project Activity 19: Signing and Pavement Marking Analysis

Estimator: Alain De Quesada, P.E.

NW 154th St to NW 77th Ct Turn Lane Extension

TBD

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, P.E.	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	N/A
19.2	No Passing Zone Study	LS	1	0	0	N/A
19.3	Signing and Pavement Marking Master Design File	LS	1	40	40	Develop master design file showing all signing and pavement markings. Includes all work necessary to create the master design file and design the signing and pavement markings.
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	N/A
19.5	Sign Panel Design Analysis	EA	1	0	0	N/A
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	N/A
19.7	S&PM Quantities for EQ Report	Length (Miles)	0.07	Calculated Hours	8	Includes all work required to determine signing and pavement marking pay items and quantities.
		Complexity	Low Range			
		Interchanges Rest Areas	0	15		
19.8	Cost Estimate	LS	1	0	0	N/A
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
9.10	Other Signing and Pavement Marking	LS	1	0	0	N/A
	Signing and Pavement Marking Analysis Technical Subtotal				**48**	

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.11	Field Reviews	LS	1	2	2	1 Field Review * 2 Hours = 2 Hours
19.12	Technical Meetings	LS	1	0	0	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	2	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	0%	0	
	Signing and Pavement Marking Analysis Nontechnical Subtotal				**4**	
19.16	Coordination	LS	%	3%	2	
	19. Signing and Pavement Marking Analysis Total				**54**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Sign Panel Design	EA	0	0	0			0
Queue Length Analysis	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**0**		**Subtotal Project Manager Meetings**	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 19.12 Carries to Tab 3

Representing	Print Name	Signature / Date
Town of Miami Lakes	Omar Santos, P.E.	
H.W. Lochner	Alain De Quesada, 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.
20.1	Key Sheet		1		4	0	4	0	Includes creating and delivering the Key Sheet
	Signature Sheet		0		0	0	0	0	N/A
20.2	General Notes/Pay Item Notes		1	Simple	6	0	6	0	Includes creating and delivering the General and Pay Item Notes Sheet. Based on 4 hours for simple (primarily standardized notes)
20.3	Project Layout		0		0	0	0	0	Includes creating and delivering the General and Pay Item Notes Sheet.
20.4	Plan Sheet	Sheet(s)	2	Low	4	0	2	0	Approximately 450' of total roadway improvements. 1 sheet to cover 350'
		Sig Intersection Mid-Block Xing	0		0	0	0	0	N/A
		Interchange Roundabout	0		0	0	0	0	N/A
		Rest Area Toll Facility	0		0	0	0	0	N/A
20.5	Special Details	Details	0	Simple	0	0	0	0	N/A
			0	Standard	0	0	0	0	N/A
			0	Complex	0	0	0	0	N/A
20.6	Service Point Details	Service Point	0	Simple	0	0	0	0	N/A
			0	Standard	0	0	0	0	N/A
20.7	Guide Sign Data	Sign Panel	0		0	0	0	0	N/A
20.8	Cross Sections (Sign Installations)	Multi-post signs	0		0	0	0	0	N/A
		Overhead Sign Structures	0	Standard	0	0	0	0	N/A
			0	Complex	0	0	0	0	N/A
		S&PM Plans Technical Hours Subtotal			**14**	**0**	**12**	**0**	
20.9	Quality Assurance/Quality Control	%	1	5%	1	0	1	0	
20.10	Supervision	%	1	5%	1	0	1	0	
		S&PM Plans Total			**16**	**0**	**14**	**0**	