AGREEMENT

THIS AGREEMENT is made and entered into on this _____ day of _____, 201__, by and between the City of Delray Beach, a Florida municipal corporation ("City"), whose address is 100 N.W. 1ST Avenue, Delray Beach, Florida 33444, and Kimley-Horn and Associates, Inc., a North Carolina corporation (hereafter referred to as "Contractor") authorized to do business in the State of Florida, whose address is 1920 Wekiva Way, Suite 200, West Palm Beach, Florida 33411.

WHEREAS, the City desires to retain the services of the Contractor to provide the goods and services in accordance with the City's Request for Qualifications No. 2019-013, and the Contractor's response thereto, all of which are incorporated herein by reference.

NOW, THEREFORE, in consideration of the mutual covenants and promises hereafter set forth, the Contractor and the City agree as follows:

ARTICLE 1. INCORPORATION OF REQUEST FOR QUALIFICATIONS

The terms and conditions of this Agreement shall include and incorporate the terms, conditions, and specifications set forth in the City's Request for Qualifications No. 2019-013 and the Contractor's response thereto, including all documentation required thereunder.

ARTICLE 2. DESCRIPTION OF GOODS OR SCOPE OF SERVICES

The Contractor shall provide the goods and/or perform those services identified in the specifications accompanying the City's solicitation, which are incorporated herein by reference and further detailed in Exhibit A.

ARTICLE 3. COMPENSATION

The City shall pay to the Contractor, in compliance with the Pricing Schedule attached hereto and incorporated herein as Exhibit B, according to the terms and specifications of the referenced solicitation.

ARTICLE 4. MISCELLANEOUS PROVISIONS

a. Notice Format. All notices or other written communications required, contemplated, or permitted under this Agreement shall be in writing and shall be hand delivered, telecommunicated, or mailed by registered or certified mail (postage prepaid), return receipt requested, to the following addresses:

i. As to the City: City of Delray Beach
100 NW 1st Street
Delray Beach, Florida 33444
Attn: City Manager

ii. with a copy to: City of Delray Beach
200 NW 1st Street
Delray Beach, Florida 33444
Attn: City Attorney

iii. As to the Contractor: Kimley-Horn and Associates, Inc.
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411
Attn.: Marwan Mufleh, P.E., Principal
Email: Marwan.mufleh@kimley-horn.com

b. Headings. The headings contained in this Agreement are for convenience of reference only, and shall not limit or otherwise affect in any way the meaning or interpretation of this Agreement.

c. Effective Date. The effective date of this Agreement shall be as of the date it has been executed by both the parties hereto.

ARTICLE 5. CONTRACT TERM

This term of this Agreement shall be from the effective date through the completion of work and full acceptance by the City, unless terminated earlier in accordance with terms set forth in the solicitation.

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IN WITNESS WHEREOF, the parties have executed this Agreement on the dates hereinafter written.

CITY OF DELRAY BEACH, FLORIDA

[SEAL]

By: _____
City Manager

ATTEST:

By: _____
Katerri Johnson, City Clerk

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

By: _____
Lynn Gelin, City Attorney

CONTRACTOR

[SEAL]

By: _____

James M. Sumislaski
Printed Name

Sr Vice President / Principal
Title

STATE OF Florida
COUNTY OF Palm Beach

The foregoing instrument was acknowledged before me this 1 day of March, 2019 by James M. Sumislaski, as Senior Principal (name of officer or agent, title of officer or agent), of Kimley-Horn and Associates, Inc (name of corporation acknowledging), a NC (state or place of incorporation) corporation, on behalf of the corporation. He/She is personally known to me or has produced _____ (type of identification) as identification.

_____
Lori D'Amico
Notary Public – State of Florida

LORI D'AMICO
MY COMMISSION # FF 966758
EXPIRES: March 16, 2020
Bonded Thru Notary Public Underwriters

EXHIBIT A

Scope of Work
Lowson Blvd Roadway Improvements
Solicitation 2019-013

1. General Description

1.1. The Lowson Blvd limits are from the east right of way line of Military Trail to SE 6th Ave. This project is funded mainly through the Palm Beach County Transportation Planning Authority (TPA) grant. The project will be administered by FDOT under their Local Agency Program (LAP).

1.2. The Consultant will provide final civil engineering and design services to design roadway improvements and prepare project implementation documents consisting of plans, specifications, permit applications, and project cost estimates for milling and resurfacing of approximately 3.5 miles of roadway associated with bike lane improvements. The project proposes the widening and/or restriping of Lowson Boulevard to provide bike lanes and sidewalks / shared-use paths and traffic calming. The CITY is conducting the initial engineering design and plans development (Phase I) under a separate contract to expedite the process. The Consultant will use the design, CAD files and plans completed in the Phase I and submitted to FDOT and develop it further to the final engineering phase. Consultant is not expected to change major design decisions from Phase I, which the CITY will arrive at through a robust public outreach process. The Consultant will incorporate the construction plans for the two pedestrian bridges over the E-4 canal, which are designed under a separate contract, into one project construction bid package.

1.3. Due to the varied nature of the surrounding areas along the corridor, the design will be based on the context of the area and therefore the project will be divided into three segments:

- Segment 1: from Military Trail to Dover Road
- Segment 2: from Dover Road to Congress Avenue
- Segment3: from Congress Ave to SE 6th Avenue

1.4. CONSULTANT proposes to contract with subconsultants for design survey, geotechnical, and subsurface utility exploration (SUE) services.

PHASE I

2. This phase is currently in design under a separate contract. It includes final preparation of environmental documents including the cultural resources assessment study (CRAS), right-of-way survey (no topographic survey), preferred and approved typical section, preliminary roadway design and plans, which will be made into the FDOT Initial Engineering Phase submittal.

EXHIBIT A

PHASE II

Upon Consultant's receipt of notice to proceed from CITY, conduct a kick-off meeting, update project schedule and begin collection of the remaining data including topographic survey and geotechnical investigation. Consultant may use two different subconsultant survey firms to expedite the process.

3. Basic Services

3.1. Roadway Design and Plans

3.1.1. Typical Sections

3.1.1.1. Since Phase I typical sections were produced without the benefit to a topographic survey, Consultant will reevaluate typical sections for segments 1, 2 and 3 after receipt of topographic survey for minor modifications. Consultant will conduct field visits to compare conditions against field survey. It is assumed the major design features of the typical sections, such as bike lanes and sidewalks, will remain as in Phase I. Prepare a design criteria memo to guide design decisions based on Florida Greenbook.

3.1.1.2. After CITY review of any minor typical section revisions, update plans to reflect the modified typical sections.

3.1.1.3. Coordinate typical section and plan revisions with FDOT.

Deliverables: Modified typical sections

3.1.2. Horizontal Alignment Analysis

3.1.2.1. Coordinate with CITY staff regarding right-of-way (ROW) information. Review right-of-way and easement locations and any constraints on use of such property. After receipt of FDOT review comments in their ERC system in Phase I, and receipt of new topographic survey, address FDOT comments in their ERC system and meet to discuss any discrepancies or required changes resulting from the new survey. Address sight distance at non-signalized intersections as related to corner chords and landscaping. Avoid right of way acquisition in constrained areas where applicable by reducing typical section elements. Roundabout design is limited to one location.

3.1.2.2. Intersection Design

After receipt of new survey, refine the intersection design from Phase I at the following locations:

- Homewood Blvd Intersection
- Congress Ave Intersection (PBC roadway)
- SFRTA railroad crossing
- Lift Station area geometry (avoid conflict)
- Pine Grove School area geometry and cemetery entrance

EXHIBIT A

- FEC railroad crossing
- SE 5th Ave intersection
- SE 6th Ave intersection
- Traffic calming intersections (up to 5 locations – one mini roundabout design in Sherwood Park, median dividers)

Deliverables: Intersection detail sheets

3.1.3. Traffic Calming

Conduct a traffic calming study for the Sherwood Park area. Consultant will prepare a study to determine the feasibility of installing neighborhood traffic calming devices on Segment 1 of Lowson Blvd.

3.1.3.1. Collect speed data at up to four locations along the Street. Speed data will be collected for one week. We will collect daily and peak hour traffic volumes at up to two locations within the neighborhood. Data will be collected on three consecutive weekdays.

3.1.3.2. Qualitatively observe traffic operations on Segment 1 to evaluate cut-through movements.

3.1.3.3. Evaluate the feasibility of additional traffic devices for Segment 1. The result of this task will be a memo report explaining the assumptions applied in the report, the results of the study, and a graphic illustrating the approximate placement and types of the calming devices. Detailed engineering plans will be prepared under a separate task.

Deliverables: Traffic calming memo report

3.1.4. Vertical alignment and Cross Sections Analysis

3.1.4.1. Due to lack of full survey in Phase I, reevaluate horizontal and vertical alignment along with typical sections upon receipt of the full topographic survey to confirm the typical section or modify it. This task will require layout of horizontal and vertical geometry to generate working cross sections and compare alternatives. Replacement of existing sidewalk in kind or for widening purposes will most likely not be reimbursed by the grant. The following factors will influence the typical section and alignment alternatives: estimated construction costs as compared to the grant amount; items not reimbursable by the grant, such as replacement of existing sidewalk due to width or elevation; design that will qualify for resurfacing reimbursement. Segment 3 will require a thorough evaluation of use of shared-use path on one side and sidewalk on the other side versus use of on-street bike lanes with curb and gutter and sidewalks. Proposed changes from flush shoulder to curbed sections, especially for Segment 3, will require special vertical alignment design. Maximize use of the existing pavement and widen by use of special curb profiles, pavement overbuild and variable outside lane

EXHIBIT A

cross slopes. Flush shoulder segments will require special roadside swale profile grading.

3.1.4.2. Sidewalks for Segment 1 will require special alignment and profile grade to avoid impacts to large Banyan trees. Sidewalks for the other segments will require detailed grading at driveways and right of way lines. Check critical cross sections. Extend intersection plateau at Congress Avenue for widening locations. Submit vertical profile design to the CITY for one review. After incorporation of CITY comments, proceed with the detailed design. Provide curb returns grading in conjunction with drainage design.

3.1.4.3. Provide driveway profiles where needed and determine encroachment limits for all entrances.

3.1.4.4. Design curb return profiles for all curbed intersections.

3.1.4.5. Prepare gravity wall/back of sidewalk curb details in constrained areas if necessary to keep all construction within existing right of way.

3.1.4.6. Develop existing and proposed working cross sections where needed at 100' intervals at locations of roadway pavement widening. Working cross sections will be used to confirm design, but cross section sheets and their submittal is not required.

Deliverables: Provide intersection details where needed. Provide profile grade design. Provide limits of back of sidewalk curb/treatment.

3.1.5. Structural Design

3.1.5.1. Not Anticipated.

3.1.6. Roadway Plans

3.1.6.1. Develop roadway design and prepare roadway plans. Prepare plan sheets at 1"=40' scale or as appropriate on 11x17 size sheets. Use aerial background from raster images provided by CITY for working sheets. Final plans will utilize survey planimetrics for background without aerials photography. Design cross sections at standard scale. Due to existing restrictions on vertical alignment, document design criteria and notify CITY for their concurrence. Coordinate pavement design with geotechnical sub consultant. Prepare curb profiles to modify Segment 3 from flush shoulder and swales to curbed section. Prepare back of sidewalk profiles for Segments 1 and 2 to determine limits of construction and swale configuration.

3.1.6.2. Roadway plans consist of the following sheets:
Key Sheet, Typical Sections, General Notes/Pay Item Notes, Summary Of Quantities, Horizontal Control (as provided by Surveyor), Plan and Profiles, Miscellaneous Construction Details including standard gravity walls, Cross Sections, Drainage Plans,

EXHIBIT A

Traffic Control notes sheet, Erosion Control, Storm water Pollution Prevention Plan (SWPPP), Drainage Details.

Deliverables: Phase submittals as required by FDOT LAP process

3.1.7. Traffic Control Plans (TCP)

3.1.7.1. Coordinate with CITY to develop a traffic control notes. Contractor will be required to submit their own traffic control plan. Provide notes identifying the proposed plan.

Deliverables: Prepare phasing notes, up to 2 sheets. This scope does not include traffic analysis or design of temporary signals as it is not anticipated.

3.1.8. Drainage Design

3.1.8.1. Review existing conditions within the Lowson Blvd right of way and modify existing drainage systems to account for the proposed roadway changes. Improve swale grading for Segment 1 and connect isolated areas to positive outfalls within the roadway if feasible. Provide exfiltration trenches within swale areas where applicable to improve swale percolation. Provide exfiltration trenches in Segments 2 and 3 to mitigate stormwater runoff from additional impervious areas. Drainage analysis does not include stormwater modeling of the neighborhood. Analysis is limited to Lowson Blvd right of way. Since bike lanes and sidewalks qualify for a permit exemption from SFWMD, additional water quality provisions are not required. Consultant will apply for the permit exemption. Meet and coordinate with South Florida Water Management District (SFWMD) and Lake Worth Drainage District (LWDD) to establish design criteria. Where exfiltration trenches are needed, place them outside of pavement locations where possible even if that requires relocation of existing utilities. New storm water ponds and / or dry detention areas are not proposed in this drainage scope due to lack of right of way. It is expected that water quantity attenuation measures for a widening project will not be required since runoff will continue to discharge in the exiting water bodies. Prepare working drainage maps to show drainage in plan view. Prepare working drainage structure cross section at locations of utility conflicts to evaluate solutions.

3.1.8.2. Coordinate drainage modifications with Palm Beach County for the Congress Avenue system and with FDOT for the US-1 system.

3.1.8.3. Drainage outfalls – It is not expected that improvements to existing outfalls will be required under this project. The scope does not include analysis of existing systems outside road right of way, which we may include areas outside the roadway or outfalls extending beyond Lowson Blvd right of way.

EXHIBIT A

3.1.8.4. Submit proposed drainage improvements to CITY for review and approval. Consultant will provide video inspection of the existing storm sewer within Lowson Blvd right of way (up to 8,000 LF of storm pipes).

Deliverables: Drainage analysis memo report documenting proposed improvements.

3.1.9. Signing and Pavement Marking Design and Plans

3.1.9.1. After CITY approval of Phase 1 roadway plans, develop preliminary signing and pavement marking plans in accordance with current MUTCD standards. Provide signing and marking as required for school crossings. Provide railroad pavement markings for railroad crossings. It is assumed that "Next Signal" signs for all signalized intersections will remain as is.

3.1.9.2. Coordinate with CITY regarding use of pavement marking options in bike lane areas such as green background for bike symbol. Provide special bike lane marking detail. No overhead signs are anticipated for the project.

Deliverables: Phase submittals.

3.1.10. Signalization Design and Plans

3.1.10.1. Coordinate with PBC Traffic Division to develop design and construction plans for modification of existing pedestrian signals as required for new curb ramps and to meet ADA requirements. Other than impacted pedestrian signals, it is assumed that all signal equipment including signal poles, heads, controllers, vehicle detection, etc. will remain and not require redesign. Proposed potential pedestrian signal modification locations are listed below.

- Congress Avenue
- Swinton Avenue
- Old Dixie Highway
- SE 5th Avenue
- SE 6th Avenue

Deliverables: Preliminary layout to PBC, phase submittals.

3.1.11. Erosion Control Plans

3.1.11.1. Prepare erosion control and storm water pollution prevention plans (SWPPP) as required for environmental storm water permitting.

Deliverables: Erosion and SWPPP.

EXHIBIT A

3.1.12. Horizontal Control Reference Sheets

3.1.12.1. Incorporate horizontal control and bench mark sheets as provided by Surveyor.

3.1.13. Public Outreach

3.1.13.1. The Phase I scope included two public meetings. During those meetings, it became apparent that additional meetings were required. For Phase II, conduct up to **4** public meetings with stakeholders as follows

- Sherwood Park Neighborhood (a progress meeting after addressing FDOT review comments from the Initial Engineering Phase) and a follow up meeting.
- Segment 2 and 3 meeting (a progress meeting after Initial Engineering Phase) and a follow up meeting.
- City Commission (one meeting)

3.1.13.2. Research and prepare contact information for above stakeholders and prepare public meeting notices for the proposed meetings via U.S. Mail. Prepare press releases for CITY's use. Coordinate with CITY to have them announce the meetings through their website and other means.

3.1.13.3. Prepare exhibits for meetings. Prepare a onetime photo simulation of two proposed typical section options. Conduct up to two open house format presentations along with colored board exhibits of typical sections and roll plot of the project alignment. Prepare public comment cards, review after each of the first two meetings, summarize comments in categories and post to website.

3.1.13.4. Develop a project website and post progress and answers to questions throughout the design process. Provide the City with a link to place on their website.

3.1.14. Opinion of Probable Construction Cost

3.1.14.1. Prepare an opinion of probable construction costs for the updated Initial Engineering, Constructability and Production Phase of the project using FDOT LAP format. The Consultant has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Consultant at this time and represent only the Consultant's judgment as a design professional familiar with the construction industry. The Consultant cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

Deliverables: Cost Estimates to be submitted with Phase Submittals.

EXHIBIT A

3.1.15. Railroad Coordination

3.1.15.1. SFRTA Crossing - Prepare roadway, bike and pedestrian crossing layout at the SFRTA crossing and provide to SFRTA. It is anticipated that new pedestrian gates will be required for the south side. Coordinate with SFRTA and assist the CITY to reach agreement for the crossing modifications, which will be performed by SFRTA and reimbursed by CITY

3.1.15.2. FEC Crossing – Prepare roadway, bike and pedestrian layout at the crossing location. It is anticipated that lane width reduction and realignment will fit within the existing crossing and not require crossing modification. Coordinate design modifications with FEC.

3.1.16. Utility Coordination

3.1.16.1. Coordinate to provide initial plan sheets to utility agency owners (UAO's) to identify their existing and proposed facilities and to determine if they have compensable rights. Request estimates from UAO's of any compensable rights and include it in the project's cost estimate. Based on UAO's marked plans, draw existing utilities in the roadway design CAD files.

3.1.16.2. Meet with CITY's Utility Department staff to identify any desired improvements within project limits and a follow up meeting for proposed improvements.

3.1.16.3. Construction plans for inspection and relocation of any utilities will be performed by the UAOs and is not included in this scope.

3.1.16.4. Conduct a maximum of three combined utility coordination meetings and three meetings with individual UAOs to resolve potential conflicts

3.1.16.5. Prepare potential conflict matrix and provide with progress plans to UAO's.

3.1.16.6. Coordinate resolution of utility conflicts and request utility relocation schedules from UAO's.

3.1.16.7. Coordinate subsurface utility exploration softdigs with subconsultant at potential conflict locations and include summary of test hole information in the plans.

Deliverables: Information collected to be incorporated into Phase submittals as coordination progresses.

3.1.17. LAP Coordination

3.1.17.1. Consultant will coordinate the LAP process to completion with by processing project submittals through LAP. This consists of plans, specifications, checklists and cost estimates. Consultant will attend meetings with FDOT and attend teleconferences as required (for budgeting purposes, assume 1 meeting and 3 teleconferences are required). Construction Engineering and Inspection (CEI)

EXHIBIT A

consultant advertisement, bid advertisement, FHWA checklists, right of way certification form, LAP agreement and commission resolution will be completed and signed by CITY representatives.

3.1.17.2. Submit Constructability, Production and final Phase construction documents and specifications to FDOT and address review comments in the ERC system. Follow up with each reviewer as needed to expedite resolution of comments due to tight schedule.

3.1.18. Bidding Services

3.1.18.1. Prepare bidding documents and provide assistance to CITY. **Deliverables:** Consultant will provide project specific information to be included in the boiler plate. Consultant will provide any technical special provisions and incorporate FDOT's big four LAP specifications. Consultant will review Requests for Information (RFI) from bidders. Consultant will draft a response to addenda. Consultant will issue revised plan sheets, all up to and in accordance with established budget. CITY will provide to Consultant the latest boiler plate bid document to be used for the project in a readily usable digital file (WORD document) and project information including any liquidated damages amounts. Consultant will attend one pre-bid meeting.

3.1.19. Post Design Services

3.1.19.1. CITY will hire a separate CEI consultant for the construction phase services. Consultant will provide post design services up to the budgeted amount. These services include response to RFIs, attendance at meetings and issuance of revisions to plans when required.

3.2. Environmental Services and Permitting

3.2.1. Environmental LAP Documents

3.2.1.1. Coordinate response to FDOT comments on the environmental documents and CRAS submitted in Phase I.
Deliverables: Updated environmental documents.

3.2.1.2. Pre-Application Meetings.
Meet with SFWMD, LWDD, PBC Permits Section, PBC Traffic, FDOT Drainage Office, SFRTA, FEC and Palm Tran to introduce the proposed project and confirm permit requirements. This scope assumes that there are no wetlands within the project.

3.2.1.3. Permit Application Data.
Provide calculations for mitigation of additional runoff
Prepare LWDD permit application
Prepare SFWMD permit exemption request
Prepare PBC right of way permit application
Prepare SFRTA Crossing modification request
Prepare FEC Crossing modification request

3.2.1.4. Prepare and submit dewatering permit application to SFWMD

EXHIBIT A

3.2.1.5. Coordination and RAI Responses.
Conduct telephone coordination with the regulatory agencies as necessary to expedite permit issuance and respond to Request for Additional Information (RAI) from those agencies.

Deliverables: Completion of required permitting applications for project.

3.3. Subsurface Utility Exploration (SUE)

3.3.1. Provide for the "Collection and Depiction of Existing Subsurface Utility Data" during the field and office operations for this project. Gravity systems, overhead facilities and private laterals are not included in this investigation.

3.3.1.1. Vacuum Excavation Services
(Expose and record horizontal and vertical data) Perform a maximum of (50) test holes at specific sites determined in the design process. Test holes will be utilized to expose utilities to minimize any potential for damage.

Deliverables: A test hole summary report will be created providing depth of cover, type, size and material if applicable. Information collected to be incorporated into Phase submittals as work progresses.

3.3.1.2. Mapping Services – Test holes will be surveyed.

Deliverables: A multilayered CAD file will be produced by the SUE subconsultant from information collected in the field. The CAD file will show location of test holes in plan view with test hole number designation and direction of existing utilities. Information collected to be incorporated into Phase submittals as work progresses. SUE information will be summarized and provided by SUE subconsultant.

3.4. Geotechnical Services

3.4.1. Geotechnical investigation services will be provided as follows:

3.4.1.1. Up to (120) roadway auger borings along the proposed corridor. The auger borings will be extended to a depth of about 6 feet below existing grade.

3.4.1.2. LBR tests for pavement widening design are not included since pavement widening will be equal to or better than existing.

3.4.1.3. Up to six (6) Borehole Permeability (BHP) / percolation tests to determine the average hydraulic conductivity of the subsoils for drainage improvements.

EXHIBIT A

3.4.1.4. Up to 25 pavement cores will be taken from the existing roadway. Boring and test locations will be approximately located in the field by measuring distances with a tape from known reference points. Elevations at boring locations will be interpreted from topographic plans.

3.4.2. Prior to drilling at the project site, Consultant will notify the local utility companies and request that underground utilities be marked. Upon completion of the field exploration, laboratory testing will be performed on selected samples.

3.4.3. Any required special use permits will be requested from the local maintenance office. Maintenance of traffic (MOT), when necessary. Before drilling, the site will be cleared for underground utilities.

Deliverables: A geotechnical report will be issued that contains the exploration data, a discussion of the site and subsurface conditions, and a discussion of some construction considerations.

3.5. Lighting Design

3.5.1. The existing street lighting along the corridor is provided by Florida Power and Light (FPL). New street lighting is not included in the project scope and budget. However, based on existing light parameters provided by FPL, conduct a photometric lighting analysis of the existing corridor to determine deficient lighting areas. Coordinate with CITY and FPL to determine parameters for the design analysis. Propose improvements based on supplementing the existing FPL lighting system. Coordinate with CITY and FPL to determine if FPL will provide the required proposed additional lighting. Provide photometric analysis plans showing pole locations and luminaire and pole parameters to FPL to enable them to perform their design including service point, voltage drop and conductor calculations. It is assumed that FPL will supplement their existing system by installing the required poles, conduits, pull boxes, conductors, etc. Coordinate with FPL and CITY and attend up to three meetings to help them reach agreement.

Deliverables: Photometric plans showing locations of proposed poles and street light parameters for FPL's use.

3.6. Landscape and Irrigation Design

3.6.1. Tree Disposition

- Consultant's arborist will perform a site visit to document existing tree conditions including diameter at breast height (DBH) measurements of existing trees over 3" DBH. An approximate location will be provided for each tree for approximately 75 + existing trees and palms within the 80' Lowson Boulevard right-of-way, between Dover Road and S. Military Trail. Final horizontal control and elevation data for each tree shall be based upon

EXHIBIT A

the surveyed conditions provided by the surveyor. A condition ranking will be performed by an ISA Certified Arborist per the Guide for Plant Appraisal, 9th Edition, as established by the Council of Tree and Landscape Appraisers (CLTA) for each tree. A tree risk assessment or hazard evaluation is excluded from this task.

- Consultant will prepare tree mitigation plans and an arborist report. The arborist report will be provided to the CITY in electronic (.PDF) format. Tree mitigation plans will be submitted as a part of the overall roadway improvements plans package and will be revised up to two (2) times to incorporate CITY comments. Tree condition data will be incorporated into the tree mitigation plans, details, and arborist report consisting of the following information:
- Tree observation data, ranking, and status of tree to be removed or remain in place.
- Locations of proposed protection techniques limited to: tree protection fencing, root pruning limits, and specialty sidewalk details.
- Tree removal and mitigation calculations per the City of Delray Beach tree mitigation requirements to determine the total number of replacement trees required..

3.6.1.1. Tree Removal Application - Consultant shall prepare tree mitigation calculations and applications for submittal to CITY in support of the required Tree Removal Application.

Deliverables: Tree disposition sheets, tree pruning details, sidewalk treatment details and tree removal permit application.

3.6.2. Landscape Design

3.6.2.1. Exhibits - Generate a Color Rendered Conceptual Plan showing general paving and planting treatment at proposed traffic calming locations prior to commencing with Construction Document preparation and for use in public meetings.

3.6.2.2. Limited Landscape Plans and Specifications - While the original project budget did not include landscaping, CITY may fund landscaping for traffic calming features and tree replacement. Prepare planting construction documents and specifications for the limited areas of traffic calming locations. The documents will include plans, details, quantities, notes and size specifications for the installation of the proposed landscaping. The work of this task also includes necessary site visits to confirm coordination of the plans with existing site conditions. Hardscape plans are not anticipated for this project.

Deliverables: Phase submittals required– specification documents, colored exhibits, plans and cost estimates.

3.6.3. Irrigation Design

EXHIBIT A

3.6.3.1. Irrigation Plans and Specifications - Prepare limited construction documents and specifications for an irrigation system within the limited landscaped areas at traffic calming locations. The construction documents will include location, quantity and size of proposed irrigation materials for installation. The water source for the proposed irrigation system shall be the existing potable water line immediately adjacent to the landscape areas within Lowson Blvd. The work of this task also includes necessary site visits to confirm coordination of the plans with existing site conditions. Consultant shall provide Electrical design for irrigation controller.

Deliverables: Phase submittals required – specification documents, plans and cost estimates.

3.7. Palm Tran Coordination – Coordinate with Palm Tran for relocation of bus stops and shelters during construction and for final design. The scope does not include design of bus shelters.

4. Optional Services (Not Applicable)

5. General Requirements for Work

5.1. All plans will be submitted on 11x17 size sheets unless otherwise indicated.

5.1.1. Confirmation of Preliminary Design

1.1.1. After receipt of topographic survey and preparation of preliminary cross sections, Consultant will make minor modifications to proposed typical sections and horizontal alignment prepared in Phase I as well as generate preliminary vertical alignment to confirm Phase I design. Consultant will conduct traffic calming study, prepare preliminary intersection design, coordinate with regulatory agencies and UAOs and conduct geotechnical investigation. Consultant will resubmit modifications to CITY and FDOT for their concurrence prior to advancing to the next phase submittal.

Deliverables:

- 1 copy of updated 30% plans
-
- Updated cost estimate
- 1 copy of design criteria memo

5.1.2. 50% Phase

5.1.2.1. After receipt of City and FDOT confirmation on the 30% phase plans, Consultant will resolve FDOT review comments and develop design and plans to 50% completion. At this stage Consultant will conduct drainage reviews, lighting analysis, pedestrian signal analysis, signing and marking concepts, preliminary landscape design, traffic control concepts, railroad

EXHIBIT A

coordination, utility coordination meetings and continue coordination with FDOT. Coordinate railroad plans with FDOT rail coordinator. Consultant will submit progress plans to CITY for review and approval of design prior to continuation to the Constructability Phase. A meeting will be held to discuss CITY comments.

Deliverables:

- 1 copy of progress plans and reports
- Permit applications
- Cost estimate

5.1.3. Constructability Phase

5.1.3.1. After coordination of 50% Phase with CITY, develop design, plans and preliminary specifications for the FDOT Constructability Phase. Assist the CITY in preparation of LAP checklists and right of way forms and submit to FDOT.

Deliverables:

- 1 copy of plans
- Response to comments
- Cost estimate
- 1 CD of submittal

5.1.4. Production Phase

5.1.4.1. After completion of FDOT review of the Constructability Phase, address review comments in the ERC system, address permit review comments, finalize railroad crossing coordination and utility coordination. Strive to obtain permits, railroad and utility coordination clearances and prepare their memos.

Deliverables:

- 1 copy of signed and sealed plans
- 1 copy of revised specifications
- Response to comments
- Cost estimate
- 1 CD of submittal
- Clearance memos

5.1.5. Final Submittal

5.1.5.1. Address any last comments on plans and specifications from Production Phase to provide final signed and sealed plans and specifications and include all agreements into a final submittal.

5.2. Schedule

5.2.1. Consultant will submit a schedule meeting FDOT project milestones.

5.2.2. Due to schedule constraints the CITY will provide Consultant with immediate direction on issues as they arise to allow for continuation of the plans development without delay. Additionally, the CITY will bring representatives from all CITY departments that will be tasked with

EXHIBIT A

reviewing the design to meet with Consultant and provide design and plans review comments at such meetings to expedite reviews. The maximum period for CITY review of project phase submittals shall be one week.

6. CITY Responsibilities

6.1 The CITY shall provide Consultant with the following:

- Existing records including files, plans, and any other pertinent engineering information.
- Maintenance requirements and preferences at the start of the design process.
- Early decision on utility upgrades and sewer inspections.
- Review of documents submitted by Consultant and their subconsultants requiring the CITY's decision and shall render any required decision pertaining thereto in a timely manner.
- Bid document boilerplate and CITY standard specifications in WORD format.
- Commission resolution for LAP agreement.
- Execute required FDOT LAP forms and agreements in a timely manner.
- Assigned project manager and one point of contact for all project decisions.

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Lowson Blvd Improvements
County: Delray - PBC
FPN: 436896-1-58-01
FAP No.:

Consultant Name: Kimley-Horn and Associates, I
Consultant No.: TBD
Date: 2/27/2019
Estimator: MM

Staff Classification	Hours From "SH Summary - Firm"	Project Manager	Principal Engr	Sr. Engr	Project Engr	Analyst	Sr Designer					SH By Activity	Salary Cost By Activity
3. Project General and Project Common Tasks	686	0	137	0	274	138	137	0	0	0	0	686	$106,980
4. Roadway Analysis	780	0	156	0	211	273	140	0	0	0	0	780	$118,250
5. Roadway Plans	486	0	49	0	97	155	185	0	0	0	0	486	$70,510
6a. Drainage Analysis	394	0	197	0	118	47	32	0	0	0	0	394	$70,335
6b. Drainage Plans	166	0	17	0	0	69	80	0	0	0	0	166	$23,535
7. Utilities	216	0	22	0	86	48	60	0	0	0	0	216	$32,090
8. Environmental Permits, Compliance & Clearances	100	0	42	0	50	0	8	0	0	0	0	100	$17,690
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	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
11. Structures - Temporary Bridge	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
13. Structures - Medium Span Concrete Bridge	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
15. Structures - Segmental Concrete Bridge	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
17. Structures - Retaining Walls	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
19. Signing & Pavement Marking Analysis	198	0	20	0	40	63	75	0	0	0	0	198	$28,735
20. Signing & Pavement Marking Plans	104	0	10	0	21	33	40	0	0	0	0	104	$15,060
21. Signalization Analysis	126	0	25	0	40	13	48	0	0	0	0	126	$19,895
22. Signalization Plans	66	0	7	0	0	21	38	0	0	0	0	66	$9,535
23. Lighting Analysis	165	0	33	0	50	69	13	0	0	0	0	165	$24,760
24. Lighting Plans	51	0	5	0	10	32	4	0	0	0	0	51	$6,995
25. Landscape Architecture Analysis	210	0	84	0	46	21	59	0	0	0	0	210	$36,035
26. Landscape Architecture Plans	192	0	38	0	19	62	73	0	0	0	0	192	$29,045
27. Survey (Field & Office Support)	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
29. Mapping	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
31. Architecture Development	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
33. Intelligent Transportation Systems Analysis	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
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	$0
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	$0
Total Staff Hours	3,940	0	842	0	1,062	1,044	992	0	0	0	0	3,940	
Total Staff Cost													**$609,450.00**

Check = $609,450.00

SALARY RELATED COSTS:				$609,450.00
SUBTOTAL ESTIMATED FEE:				**$609,450.00**
Subconsultant: HSQ (Survey)				$39,800.00
Subconsultant: CAS (Survey, SUE)				$58,550.00
SUBTOTAL ESTIMATED FEE:				**$707,800.00**
Geotechnical Field and Lab Testing				$49,760.00
SUBTOTAL ESTIMATED FEE:				**$757,560.00**
Optional Services				$100,000.00
GRAND TOTAL ESTIMATED FEE:				**$857,560.00**

Lump Sum Fee

Project Activity 3: General Tasks

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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	4	8	32	2 for segment 1 and 2 for segments 2/3 combined, mail out flyer and prepare press release
3.1.3	Prepare 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	2	40	80	Typical sections and plan view, traffic calming for 2 presentations
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	4	12	48	
3.1.10	Public Meeting Attendance/Followup	LS	1	98	98	(attendance : 3 staff x 4 hrs x 4 public mtgs =48 hrs + 1 commisssion mtg x 2 staff x 4 hrs = 8 hrs), (civic assoc mtg: 2 mtgs x 2 staff x 4 hrs = 16 hrs), (School: NA),(summary o fcomments: 4 hrs x 4 mtgs = 16 hrs), (Comment responses & phone calls: 10 x 1 hrs = 10 hrs) Total = 10 hrs
3.1.11	Other Agency Meetings	LS	4	4	16	1 LAP Meeting and 3 conferences plus preparation time, travel and documentation for 2 staff
3.1.12	Web Site	LS	1	92	92	Website one time development, and update
	3.1 Public Involvement Subtotal				**366**	
3.2	Joint Project Agreements	EA	3	16	48	3 LAP submittals, checklists, forms, address ERC review comments
3.3	Specifications Package Preparation	LS	1	80	80	prepare spec, address City comments = 60 hrs and update to address FDOT comments = 20 hrs, Total = 80 hrs
3.4	Contract Maintenance and Project Documentation	LS	8	1	8	monthly progress reports to City and FDOT from April to November 2019
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	40	40	Alternatives analysis review after receipt of full topo survey especially for Segment 3
3.6	Prime Consultant Project Manager Meetings	LS	1	40	40	See listing below
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	56	56	Assume 2 hrs per week x 7 months x 4 weeks
3.9	Digital Delivery	LS	1	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	48	48	24 hrs each for SFRTA crossing modification and FEC crossing
3.11.1	Aeronautical Evaluation	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	se landscape section
3.13	Other Project General Tasks	LS	1	0	0	
3. Project Common and Project General Tasks Total					**686**	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	1	4	4	
Drainage	EA	1	4	4	
Utilities	EA	0	4	0	
Environmental	EA	0	0	0	
Structures	EA	0	0	0	
Signing & Pavement Marking	EA	0	0	0	
Signalization	EA	0	4	0	
Lighting	EA	0	4	0	
Landscape Architecture	EA	1	4	4	
Survey	EA	0	4	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	0	4	0	
Progress Meetings	EA	4	3	12	1 mtg per month for 8 months
Phase Reviews	EA	3	4	12	
Field Reviews	EA	1	4	4	
Total Project Manager Meetings		11		40	Total PM Meeting Hours carries to Task 3.6 above

Project Activity 4: Roadway Analysis

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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
4.1	Typical Section Package	LS	1	24	24	reevaluate 4 typ x 6 hrs
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	8	8	standard City pavement design, no calculations
4.4	Cross-Slope Correction	LS	1	16	16	
4.5	Horizontal /Vertical Master Design Files	LS	1	343	343	3.5 mile @ 98 hrs per mile
4.6	Access Management	LS	1	0	0	NA
4.7	Roundabout Evaluation	LS	1	16	16	1 roundabout at Sherwood Park
4.8	Roundabout Final Design Analysis	LS	1	40	40	Frontier Rd in Sherwood Park
4.9	Cross Section Design Files	LS	1	84	84	working sections only (no sheets or submittal) 3.5 miles @ 24 hrs per mile
4.10	Traffic Control Analysis	LS	1	0	0	NA
4.11	Master TTCP Design Files	LS	1	0	0	NA (Contractor to provided)
4.12	Selective Clearing and Grubbing (a)	LS	1	0	0	
4.12	Selective Clearing and Grubbing (b)	LS	1	0	0	
4.12	Selective Clearing and Grubbing ©	LS	1	0	0	
4.13	Tree Dispostion Plan	LS	1	0	0	See landscape section
4.14	Design Variations and Exceptions	LS	1	0	0	NA
4.15	Design Report	LS	1	8	8	internal documentation of design decisions, not for submission
4.16	Quantities	LS	1	40	40	30 hrs original quantities + 10 hrs update
4.17	Cost Estimate	LS	1	24	24	3 estimates @ 8 hrs ea using LAP esitmate form

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
4.19	Other Roadway Analyses	LS	1	0	0	
				Roadway Analysis Technical Subtotal	**603**	
4.20	Field Reviews	LS	3	12	36	2 staff x 6 hrs x 3 reviews
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	1	66	66	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	30	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	30	
				Roadway Analysis Nontechnical Subtotal	**162**	
4.26	Coordination	LS	%	2%	15	
				4. Roadway Analysis Total	**780**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	2	4	8			0
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	1	4	4	re-evaluation after receipt of survey		0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	5	4	20	3 mtgs FDOT, 2 mtgs PBC,		0
Work Zone Traffic Control	EA	0	4	0			0
30/60/90/100% Comment Review Meetings	EA	3	6	18			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**50**	**Subtotal Project Manager Meetings**		0
Progress Meetings (if required by FDOT)	EA	4	4	16	***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				**66**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 4.17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator:

Lowson Blvd Improvements
436896-1-58-01

Representing		Print Name	Signature / Date
FDOT District			
Consultant Name			

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	0	0	
5.2	Summary of Pay Items Including Quantity Input		Sheet	1	24	24	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	4	4	16	updates
5.3.2	Typical Section Details		EA	1	8	8	
5.4	General Notes/Pay Item Notes		Sheet	1	12	12	
5.5	Summary of Quantities Sheets		Sheet	1	5	5	
5.6	Project Layout		Sheet	0	0	0	NA
5.7	Plan/Profile Sheet		Sheet	35	6	210	
5.8	Profile Sheet		Sheet	0	0	0	
5.9	Plan Sheet		Sheet	0	0	0	
5.10	Special Profile		Sheet	6	8	48	working curb profiles for segment 3
5.11	Back-of-Sidewalk Profile Sheet		Sheet	8	6	48	working back of sidewalk profiles for segments 1 and 2
5.12	Interchange Layout Sheet		Sheet	0	0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.14	Intersection Layout Details		Sheet	0	0	0	
5.15	Special Details		EA	1	8	8	

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	
5.17	Roadway Soil Survey Sheet(s)		Sheet	1	2	2	Provided by geotech
5.18	Cross Sections		EA	185	0.2	37	working sections onlyl at 100' intervals
5.19	Temporary Traffic Control Plan Sheets		Sheet	0	4	0	NA
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0.5	0	NA
5.21	Temporary Traffic Control Detail Sheets		Sheet	1	16	16	Notes and construction sequence
5.22	Utility Adjustment Sheets		Sheet	0	0	0	NA
5.23	Selective Clearing and Grubbing Sheet(s)						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.25	Project Network Control Sheet(s)		Sheet	0	0	0	
5.26	Environmental Detail Sheets		Sheet	0	0	0	
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	2	4	8	
					Roadway Plans Technical Subtotal	**442**	
5.28	Quality Assurance/Quality Control		LS	%	5%	22	
5.29	Supervision		LS	%	5%	22	
					5. Roadway Plans Total	**486**	

Project Activity 6a: Drainage Analysis

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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
6a.1	Drainage Map Hydrology	Per Map	3	12	36	working maps showing systems and outfalls
6a.2	Base Clearance Calculations	Per Location	0	0	0	NA
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	NA
6a.4	Design of Cross Drains	EA	0	0	0	NA
6a.5	Design of Ditches	Per Ditch Mile	1	24	24	Segment 1 swales
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	1	40	40	multiple cells with combo swale and exfiltration trenches
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	NA
6a.9	Design of Storm Drains	EA	37	2	74	Assume 1 proposed structures per 500 x 3.5 miles = 37 structures (does not include analysis of existing systems outside right of way such as outfalls, etc.
6a.10	Optional Culvert Material	EA	0	0	0	
6a.11	French Drain Systems	Per Cell	3	12	36	aaverage 3 system calculations only for entire job
6a.11.a	Existing French Drain Systems	Per Cell	0	0	0	assume 1 calculation per segment
6a.12	Drainage Wells	EA	0	0	0	NA
6a.13	Drainage Design Documentation Report	LS	1	32	32	
6a.14	Bridge Hydraulic Report	EA	0	0	0	

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	0	0	0	NA
6a.16	Cost Estimate	LS	0	0	0	
6a.17	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
6a.18	Hydroplaning Analysis	LS	1	0	0	NA
6a.19	Existing Permit Analysis	LS	1	8	8	
6a.20	Other Drainage Analysis	LS	2	32	64	coord on FDOT system connecting to US-1 and on County system connecting to Congress Ave
			Drainage Analysis Technical Subtotal		**314**	
6a.21	Field Reviews	LS	1	8	8	2 staff x 4 hrs
6a.22	Technical Meetings	LS	1	32	32	Meetings are listed below
6a.23	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.24	Quality Assurance/Quality Control	LS	%	5%	16	
6a.25	Independent Peer Review	LS	%	0%	0	
6a.26	Supervision	LS	%	5%	16	
			Drainage Analysis Nontechnical Subtotal		**72**	
6a.27	Coordination	LS	%	2%	8	
				6a. Drainage Analysis Total	**394**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	1	8	8	LWDD x 2 staff x 4 hrs		0
Local Governments (cities, counties)	EA	1	8	8	Congress Ave system		0
FDOT Drainage	EA	1	8	8	US-1 system		0
Other Meetings	EA	1	8	8	City stormwater engineer x 1 mtgs x 2 staff x 4 hrs		0
Subtotal Technical Meetings				**32**			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				**32**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 6.19

Carries to Tab 3

6b. Drainage Plans

Estimator:

Lowson Blvd Improvements
436896-1-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)		Sheet	3	16	48	plan view only
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	
6b.3	Summary of Drainage Structures		Sheet	0	0	0	
6b.4	Optional Pipe/Culvert Material		Sheet	0	0	0	
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	37	1	37	working sheets only, not for submittsion, assume only some structures with potential utility conflicts will be drawn (37 structures)
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	1	18	18	
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	NA
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	NA
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	0	0	0	NA
6b.10	Retention Pond Cross Sections		EA	0	0	0	NA
6b.11	Erosion Control Plan Sheet(s)		Sheet	35	1	35	
6b.12	SWPPP Sheet(s)		Sheet	3	4	12	
					Drainage Plans Technical Subtotal	**150**	
6b.13	Quality Assurance/Quality Control		LS	%	5%	8	
6b.14	Supervision		LS	%	5%	8	
					6. Drainage Plans Total	**166**	

7. Utilities

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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
7.1	Utility Kickoff Meeting	LS	1	8	8	Meeting is listed below
7.2	Identify Existing Utility Agency Owners (UAO(s))	LS	1	8	8	
7.3	Make Utility Contacts	LS	1	8	8	
7.4	Exception Processing	LS	1	0	0	
7.5	Preliminary Utility Meeting	LS	1	8	8	Meeting is listed below
7.6	Individual/Field Meetings	LS	1	32	32	Meetings are listed below
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	30	30	
7.8	Subordination of Easements Coordination	LS	1	0	0	
7.9	Utility Design Meeting	LS	1	8	8	Meeting is listed below
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	1	30	30	
7.11	Utility Coordination/Followup	LS	1	24	24	
7.12	Utility Constructability Review	LS	1	12	12	
7.13	Additional Utility Services	LS	1	0	0	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	8	8	
7.15	Contract Plans to UAO(s)	LS	1	16	16	
7.16	Certification/Close-Out	LS	1	16	16	
7.17	Other Utilities	LS	1	8	8	relocation commitments
				7. Utilities Total	**216**	

7. Utilities

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	1	8	8	included under Atlantic Blvd		0
Preliminary Meeting (see 7.5)	EA	1	8	8			0
Individual UAO Meetings (see 7.6)	EA	3	8	24			0
Field Meetings (see 7.6)	EA	1	8	8			0
Design Meeting (see 7.9)	EA	1	8	8			0
Other Meetings *(this is automatically added into Utilities Total (cell F27))*	EA	0	0	0			0
Total Meetings				**56**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to Tab 3

8. Environmental Permits

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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/ Units	Total Hours	Comments
	Environmental Permits, Compliances and Clearances					
8.1	Preliminary Project Research	LS	1	12	12	
	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	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	0	
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	0	0	
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	2	25	50	LWDD 40 hrs and SFWMD permit exemption 10 hrs
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare Tree Permit Information	LS	1	12	12	
8.10	Compensatory Mitigation Plan	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	0	0	

8. Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.12	Other Environmental Permits	LS	1	0	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 SEIR 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 Impact Analysis	LS	1	0	0	
8.13.5	Protected Speices and Habitat Impact Analysis	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 SEIR 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 Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	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				**74**	
8.17	Technical Meetings	LS	1	16	16	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	%	5%	4	
8.19	Supervision	LS	%	5%	4	
	Environmental Permits, Compliance and Clearances Nontechnical Subtotal				**24**	
8.20	Coordination	LS	%	2%	2	
	8. Environmental Permits, Compliance and Clearances Total				**100**	

8. Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		
Technical Meetings		**Units**	**No of Units**	**Hours/ Unit**	**Total Hours**	**Comments**	**PM Attendance at Meeting Required?**	**Number**
WMD		EA	2	8	16	LWDD and SFWMD 2 staff x 4 hrs	yes	1
NMFS		EA	0	0	0			0
USACE		EA	0	0	0			0
USCG		EA	0	0	0			0
USFWS		EA	0	0	0			0
FFWCC		EA	0	0	0			0
FDOT		EA	0	0	0			0
Other Meetings		EA	0	0	0			0
Subtotal Technical Meetings					**16**		**Subtotal Project Manager Meetings**	1
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)**	**1**

Carries to 8.18

Carries to Tab 3

19. Signing & Marking Analysis

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Reference and Master Design File	LS	1	110	110	3.5 miles x 20 hrs + 40 hrs set up
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	NA
19.5	Sign Panel Design Analysis	EA	2	8	16	typical street sign, roundabout sign
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	
19.7	Quantities	LS	1	16	16	
19.8	Cost Estimate	LS	1	0	0	
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
19.10	Other Signing and Pavement Marking	LS	3	8	24	(Palm Beach County: review and approval for intersections = 20 hrs),)SFRTA crossing = 20 hrs), (FEC crossing = 20 hrs)
Signing and Pavement Marking Analysis Technical Subtotal					**166**	
19.11	Field Reviews	LS	1	8	8	
19.12	Technical Meetings	LS	1	4	4	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	8	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	8	
Signing and Pavement Marking Analysis Nontechnical Subtotal					**28**	
19.16	Coordination	LS	%	2%	4	
19. Signing and Pavement Marking Analysis Total					**198**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number

19. Signing & Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		
Sign Panel Design		EA	0	0	0		yes	0
Queue Length Analysis		EA	1	0	0			0
Local Governments (cities, counties)		EA	1	4	4			0
Other Meetings		EA	0	0	0			0
Subtotal Technical Meetings					4	**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					4	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 19.12

Carries to Tab 3

20. Signing & Marking Plans

Estimator:

Lowson Blvd Improvements
436896-1-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	6	1	6	
20.2	Summary of Pay Items Including Input		LS	1	12		12	
20.3	Tabulation of Quantities		Sheet	0	0	0	0	
20.4	General Notes/Pay Item Notes		Sheet	0	0	0	0	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	35	2	35	70	
20.7	Typical Details		EA	1	6		6	
20.8	Guide Sign Worksheet(s)		EA	0	2		0	
20.9	Traffic Monitoring Site		EA	0	0		0	
20.10	Cross Sections		EA	0	0		0	
20.11	Special Service Point Details		EA	0	0		0	
20.12	Special Details		LS	1	0		0	
20.13	Interim Standards		LS	1	0		0	
Signing and Pavement Marking Plans Technical Subtotal						**36**	**94**	
20.14	Quality Assurance/Quality Control		LS	%	5%		5	
20.15	Supervision		LS	%	5%		5	
20. Signing and Pavement Marking Plans Total						**36**	**104**	

21. Signalization Analysis

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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/ Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	1	0	0	
21.2	Traffic Data Analysis	PI	0	0	0	
21.3	Signal Warrant Study	LS	1	0	0	
21.4	System Timings	LS	1	0	0	
21.5	Reference and Master Signalization Design File	PI	3	24	72	(Congress, SW4th Ave, Swinton Ave) Assumes US-1 doesn't change. For pedestrian signals only, assume controllers will remain unchanged includes loop replacement in kind
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	
21.7	Overhead Street Name Sign Design	EA	1	0	0	1 intersection
21.8	Pole Elevation Analysis	LS	1	0	0	
21.9	Traffic Signal Operation Report	LS	1	0	0	
21.10	Quantities	LS	1	12	12	
21.11	Cost Estimate	LS	1	0	0	
21.12	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
21.13	Other Signalization Analysis	LS	1	0	0	
Signalization Analysis Technical Subtotal					**84**	

21. Signalization Analysis

21.14	Field Reviews	LS	1	8	8	
21.15	Technical Meetings	LS	1	24	24	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	5%	4	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	5%	4	
Signalization Analysis Nontechnical Subtotal					**40**	
21.19	Coordination	LS	%	2%	2	
21. Signalization Analysis Total					**126**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Traffic Operations	EA	0	0	0			0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	0	0	0			0
Maintaining Agency (cities, counties)	EA	1	8	8			0
Railroads	EA	2	8	16	SFRTA and FEC		0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**24**		**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				**24**		**Total Project Manager Meetings (carries to Tab 3)**	**0**

Carries to 21.15

Carries to Tab 3

22. Signalization Plans

Estimator:

Lowson Blvd Improvements
436896-1-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	1	6	1	6	
22.2	Summary of Pay Items Including Designer Interface Input		Sheet	1	8	1	8	
22.3	Tabulation of Quantities		Sheet	1	8	1	8	
22.4	General Notes/Pay Item Notes		Sheet	1	16	1	16	
22.5	Plan Sheet		Sheet	3	6	3	18	
22.6	Interconnect Plans		Sheet	0	0	0	0	
22.7	Traffic Monitoring Site		EA	0	0		0	
22.8	Guide Sign Worksheet		EA	1	0		0	
22.9	Special Details		Sheet	0	0	0	0	
22.10	Special Service Point Details		EA	0	0		0	
22.11	Mast Arm/Monotube Tabulation Sheet		PI	1	0		0	
22.12	Strain Pole Schedule		PI	0	0		0	
22.13	TTCP Signal		EA	0	0		0	
22.14	Temporary Detection Sheet		PI	0	0		0	
22.15	Utility Conflict Sheet		Sheet	0	0	0	0	
22.16	Interim Standards		LS	1	4		4	
					Signalization Plans Technical Subtotal	**7**	**60**	
22.17	Quality Assurance/Quality Control		LS	%	5%		3	
22.18	Supervision		LS	%	5%		3	
					22. Signalization Plans Total	**7**	**66**	

23. Lighting Analysis

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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/ Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	1	0	0	
23.2	Lighting Design Analysis Report	LS	1	40	40	
23.3	Voltage Drop Calculations	EA	0	0	0	
23.4	FDEP Coordination and Report	LS	1	0	0	
23.5	Reference and Master Design Files	LS	1	70	70	3.5 miles X 20 hrs
23.6	Temporary Lighting	LS	1	0	0	
23.7	Design Documentation	LS	1	12	12	
23.8	Quantities	LS	1	0	0	
23.9'	Cost Estimate	LS	1	0	0	
23.10	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
23.11	Other Lighting Analysis	LS	1	0	0	
	Lighting Analysis Technical Subtotal				**122**	
23.12	Field Reviews	LS	1	8	8	
23.13	Technical Meetings	LS	1	20	20	
23.14	Quality Assurance/Quality Control	LS	%	5%	6	
23.15	Independent Peer Review	LS	%	0%	0	
23.16	Supervision	LS	%	5%	6	
	Lighting Analysis Nontechnical Subtotal				**40**	

23. Lighting Analysis

23.17	Coordination	LS	%	2%	3	
	23. Lighting Analysis Total				**165**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Lighting Design	EA	0	0	0			0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	2	8	16			0
Maintaining Agency (cities, counties)	EA	1	4	4			0
Airport authority	EA	0	0	0			0
FDEP Lighting (coast areas)	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**20**	**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				**20**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 23.14

Carries to Tab 3

24. Lighting Plans

Estimator:

Lowson Blvd Improvements
436896-1-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
24.1	Key Sheet		Sheet	1	0	1	0	
24.2	Summary of Pay Items Including Designer Interface Input		Sheet	1	0	1	0	
24.3	Tabulation of Quantities		Sheet	0	0	0	0	
24.4	General Notes/Pay Item Notes		Sheet	1	0	1	0	
24.5	Pole Data, Legend and Criteria		Sheet	1	8	1	8	
24.6	Service Point Details		Sheet	1	4	1	4	
24.7	Project Layout		Sheet	0	0	0	0	
24.8	Plan Sheet		Sheet	35	1	35	35	photometric pans to FPL
24.9	Special Details		Sheet	0	0	0	0	
24.10	Temporary Lighting Data and Details		Sheet	0	0	0	0	
24.11	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	0	
24.12	Interim Standards		LS	1	0		0	
					Lighting Plans Technical Subtotal	**40**	**47**	
24.13	Quality Assurance/Quality Control		LS	%	5%		2	
24.14	Supervision		LS	%	5%		2	
					24. Lighting Plans Total	**40**	**51**	

25. Landscape Arch. Analysis

Estimator:

Lowson Blvd Improvements
436896-1-58-01

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/ Units	Total Hours	Comments
25.1	Data Collection	LS	1	0	0	
25.2	Site Inventory and Analysis	LS	1	24	24	identify impacts to existing vegetation
25.3	Planting Design	LS	1	40	40	limited to roundabout / traffic calming locations for Segment 1
25.4	Irrigation Design	LS	1	32	32	
25.5	Hardscape Design	LS	1	0	0	
25.6	Plan Summary Boxes	LS	1	0	0	
25.7	Cost Estimates	LS	1	6	6	
25.8	Technical Special Provisions and Modified Special Provisions	LS	1	24	24	
25.9	Other Landscape Architecture	LS	1	40	40	Arborist assessment and mitigation
Landscape Architecture Analysis Technical Subtotal					**166**	
25.10	Outdoor Advertising	LS	1	0	0	
25.11	Field Reviews	LS	1	8	8	
25.12	Technical Meetings / Public Meetings	LS	1	12	12	Meetings are listed below
25.13	Quality Assurance/Quality Control	LS	%	5%	8	
25.14	Independent Peer Review	LS	%	0%	0	
25.15	Supervision	LS	%	5%	8	
Landscape Architecture Analysis Nontechnical Subtotal					**36**	

25. Landscape Arch. Analysis

25.16	Project Coordination	LS	%	2%	4	
25.17	Interdisciplinary Coordination	LS	%	2%	4	
	25. Landscape Analysis Total				**210**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT (kickoff, concept review)	EA	0	0	0			0
Maintaining Agency (cities, counties)	EA	0	0	0			0
Utility Owners	EA	0	0	0			0
Local Agency for Tree Removal	EA	1	8	8			0
Local Citizen Group(s)	EA	1	4	4			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**12**	**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				**12**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 25.12

Carries to Tab 3

26. Landscape Arch. Plans

Estimator:

Lowson Blvd Improvements
436896-1-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
26.1	Key Sheet		Sheet	0	0	0	0	
26.2	Tabulation of Quantities		Sheet	1	16	1	16	
26.3	General Notes		Sheet	1	16	1	16	
26.4	Tree and Vegetation Inventory, Protection and Relocation Plans		Sheet	5	8	5	40	80 scale
26.5	Planting Plans For Linear Roadway Projects		Sheet	5	8	5	40	
26.6	Planting Plans (Interchanges and Toll Plazas)		Sheet	0	0	0	0	
26.7	Planting Details and Notes		Sheet	4	4	4	16	
26.8	Irrigation Plans for Linear Roadway Project		Sheet	5	6	5	30	
26.9	Irrigation Plans for Interchange and Toll Plazas		Sheet	0	0	0	0	
26.10	Irrigation Details and Notes		Sheet	4	4	4	16	
26.11	Hardscape Plans		Sheet	0	0	0	0	
26.12	Hardscape Details and Notes		Sheet	0	0	0	0	
26.13	Maintenance Plan		Sheet	0	0	0	0	
26.14	Cost Estimate		LS	1	0		0	
	Landscape Architecture Plans Technical Hours Subtotal					**25**	**174**	
26.15	Quality Assurance/Quality Control		LS	%	5%		9	
26.16	Supervision		LS	%	5%		9	
	26. Landscape Architecture Plans Total					**25**	**192**	