

**Proposal To Provide Engineering Services  
for the 120<sup>th</sup> Avenue and Lake Worth Road Intersection  
Roundabout Improvements**

**Proposal Terms**

**A. Project Description:**

The Village of Wellington is proposing to add a 5-leg roundabout at the existing intersection at 120<sup>th</sup> Avenue and Lake Worth Road. The proposed roundabout will accommodate movements from 120<sup>th</sup> Avenue (northbound/southbound), Lake Worth Road (eastbound/westbound) and from eastbound 40<sup>th</sup> Street. There is existing overhead FPL electric running north/south along the westmost portion of the existing 120<sup>th</sup> Avenue right-of-way that will remain. The existing monument/signage located at the southwest corner of the intersection will be removed. The Village will replace this monument/signage under a separate project.

Mock•Roos will provide the roadway, drainage, landscaping and irrigation and lighting engineering services outlined below in B. Scope of Services for the proposed improvements.

**B. Scope of Services:**

1. Attend initial site meeting with Wellington staff to review existing conditions, site constraints and space availability. Prepare a photo document of site.
2. Review existing topographic survey and basemap provided by Village. Determine limits/extents necessary for design documents and coordinate with Village staff if additional topographic survey is required. Village will contract directly with one of its currently approved survey consultants and provide survey basemap file to Mock•Roos for its use. Coordinate surveys and produce final basemap for use in production documents.
3. Coordinate other existing utilities. Contact Sunshine One-Call to call in a Design Ticket and coordinate with the utility companies that are identified on the ticket to have infrastructure located near the site. Coordinate with Wellington to obtain and review existing utility as-built information as necessary. Also, coordinate with Wellington for Wellington to obtain “pot-hole” information on existing utilities as necessary. Incorporate available record data and contact information into the construction documents as appropriate.
4. Provide and manage the services of a geotechnical engineering consultant. See attached proposal from WIRX Engineering, dated December 2, 2024.
5. Develop a proposed master plan consisting of the following efforts:

- a. Develop conceptual configuration(s) of the Intersection to include a Wellington Standard Roundabout - Wellington to provide information pertaining to its Standard Roundabout configurations, dimensioning and other requirements
  - b. Prepare preliminary sketches of up to two typical sections. Prepare plan view sketches of alignment of each typical section.
  - c. Prepare conceptual Engineer's Opinion of Probable Construction Cost (EOPCC) for each typical section alignment.
  - d. Meet with the Village staff to review conceptual configuration(s) and incorporate comments. Village will select one conceptual configuration layout for Mock•Roos to proceed with design services.
  - e. Prepare sketches (colored exhibit(s)) for selected configuration for Village staff use.
6. Design and prepare construction drawings including plan sheets, profile and cross-section sheets (as necessary) with design sections and typical section(s) and Signing and Pavement Marking sheets. Curb and guardrail will only be designed where, and if, necessary.
  7. Design roadway drainage improvements. Prepare drainage calculations for the developed site plan, including calculations for piped segments of the existing canal. Perform drainage and roadway section runoff calculations. Water quality and storage will be provided in swales on either side of the proposed asphalt pavement section. Drainage inlets in the swales and outlet piping to the adjacent canals will be incorporated if necessary.
  8. Provide FPL with courtesy set of preliminary construction drawings to coordinate potential conflicts with FPL existing overhead facilities, if any. Assist Wellington coordinate the relocation of any facilities in conflict with the proposed configuration, if required.
  9. Coordinate with Wellington staff during design phase. This includes two (2) meetings with Village staff to review 60-percent complete drawings and 90-percent complete drawings.
  10. Prepare EOPCC for improvements at 60%, 90% and 100% complete intervals.
  11. Prepare and submit South Florida Water Management District (SFWMD) Environmental Resource Permit (ERP) and Dewatering Permit (if needed) applications, including supporting documentation and exhibits to accompany application. Prepare drainage calculations for the developed site plan, including calculations for piped segments of canal. Respond to SFWMD ERP and Dewatering Permit Request for Additional Information (up to two RAIs).

12. Prepare technical specifications for Wellington's use in bidding the project. Village will prepare the front-end documents for the project.
13. Provide limited bid phase services, including:
  - a. Attend prebid meeting
  - b. Assist with issuing addendums
  - c. Review submitted bids
  - d. Provide a Recommendation of Award
14. Provide and manage the services of a landscape and irrigation subconsultant. See attached proposal from Kimley-Horn dated December 2, 2024.
15. Provide and manage the services of an electrical lighting subconsultant. See attached proposal from C&W Engineering dated December 5, 2024.
16. Provide project management and quality control throughout the design phase of this project. Providing ongoing coordination with Wellington staff during the design phase including conference calls, email correspondence, project updates, design coordination, etc.

**C. Additional Assumptions:**

1. No utility relocations (including water, sewer, reclaimed water and/or Franchise Utilities), improvements or permitting is included. Existing FPL poles and overhead lines will remain.
2. No utility sleeves or provisions for future utility expansions are included.
3. Geotechnical work will be performed with the roadway/canal rights-of-way and no Wellington permit is required to perform the work. Geotechnical work will be performed within turnlanes were possible to reduce MOT requirements/needs.
4. Existing sign monuments will be removed and replacements will be designed and installed by others. No services are included in this proposal.
5. No formal site plan approval process is required for this project.
6. No formal permit will be required by or obtained from Wellington for the improvements.
7. No title searches, easement exhibits, sketch and legal descriptions, or easement coordination is included.

8. No stakeholder Public Outreach services are included, however, they can be completed as Additional Services. Attendance at Village Council meetings can be provided as additional services.
9. Wellington to pay permit fees directly to agencies.

**D. Fees and Rates:**

The total fee to provide the Scope of Services outlined above is \$257,457. Mock•Roos will complete the Scope of Services for a lump sum fee.

**E. Acceptance and Authorization to Proceed:**

This proposal is acceptable and Mock•Roos has authorization to proceed with the Scope of Services upon Mock•Roos receiving a Purchase Order for these services.

**MOCK•ROOS**

Signed:  \_\_\_\_\_

Name: Garry G. Gruber, P.E.

Title: Senior Vice President

Date: December 6, 2024

**Village of Wellington**  
**120th Avenue and Lake Worth Road Intersection Roundabout**

		Labor Classification						Total
		Project Director	Senior Project Manager	Senior Project Engineer	Professional Engineer	Project Engineer II	Project Coordinator	
Labor Hourly Billing Rate		\$275.00	\$245.00	\$225.00	\$205.00	\$145.00	\$95.00	
Total Hours		49	99	215	250	376	31	
Task Description								
1	Initial Site Meeting	4		4	4		1	\$ 2,915
2	Topographic Survey		4	8		8	2	\$ 4,130
3	Coordinate Other Existing Utilities		4	4		16	2	\$ 4,390
4	Geotechnical Investigation			8	8		1	\$13,137
5	Master Planning							
5a	Intersection Concept		4	12		24		\$ 7,160
5b	Prepare Sketches		2	12		40		\$ 8,990
5c	EOPCC		2	2	8		2	\$ 2,770
5d	Meet with Village staff to review	3	3	3			2	\$ 2,425
5e	Prepre Sketches	8	8	12		32	2	\$ 11,690
6	Construction Drawings							
6a	Cover Sheet		2			4		\$ 1,070
6b	Notes		2			8		\$ 1,650
6c	Drainage Map			2	8	12		\$ 3,830
6d	Typical Sections	2	8	24	16	40		\$ 16,990
6e	Plan and Profile			16	16	40		\$ 12,680
6f	Cross-Sections			16	16	24		\$ 10,360
6g	Canal Reconfigurations		4	8	20	40		\$ 12,680
6h	Pavement Markings			8	8	16		\$ 5,760
6i	Details			4		16		\$ 3,220
7	Drainage Design/Swale			8	16	40		\$ 10,880
8	FPL Coordination		4	8		8	2	\$ 4,130
9	Permitting	4	12	8	90		4	\$ 24,670
10	Coordinate Wellington/Review Meetings	8	8	8			4	\$ 6,340
11	EOPCC at 60%, 90% and 100%		2	12	32		2	\$ 9,940
12	Technical Specifications		2	12			4	\$ 3,570
13	Limited Bid Phase Services	4	4	16	8	8	2	\$ 8,670
14	Landscape and Irrigation Subconsultant		4					\$37,000
15	Electrical Lighting Subconsultant		4					\$12,500
16	Project Management/Quality Control	16	16				1	\$ 8,415
Project Total								\$ 257,457



December 2, 2024

**Mock, Roos & Associates, Inc.**  
5720 Corporate Way  
West Palm Beach, Florida 33407-2066

**Attn: Mr. Garry G. Gruber, P.E.**  
Phone: 561-683-3113  
Email: [garry.gruber@mockroos.com](mailto:garry.gruber@mockroos.com)

**Subject: Proposal for Geotechnical Engineering Services  
Lake Worth Road / 120<sup>th</sup> Avenue Intersection Improvement Project  
Village of Wellington, Florida  
WIRX Proposal No.: 24-P-074**

Dear Mr. Gruber,

WIRX Engineering, LLC (WIRX) is pleased to submit this proposal for the above-referenced project. We understand that the proposed project consists of roadway and drainage improvements at the intersection of Lake Worth Road and 120<sup>th</sup> Avenue in the Village of Wellington, Florida. The improvements include constructing a roundabout for improved traffic flow. The project also includes filling portions of the C-7 and C-24 Canals to support the proposed improvements. Therefore, we propose to conduct a subsurface exploration to determine the subsurface conditions at the project. This proposal presents our proposed scope of work and establishes our schedule and fee for performing the work.

### **SCOPE OF SERVICES**

The proposed scope of work for the project consists of the following:

1. Visit the site to field stake/mark the planned boring locations, and observe the existing site conditions.
2. Contact Sunshine 811 to request field location and clearance of underground utilities in the areas of the borings as per Florida Statutes. See below for further details.
3. Prepare a Temporary Traffic Control Plan and implement it during our field exploration for traffic control and safety purposes in accordance with the FDOT Standard Plans for Road Construction. See below for further details.
4. Mobilize a truck-mounted drill rig and personnel.
5. Perform five (5) Standard Penetration Test (SPT) borings to a depth of 10 feet and one (1) SPT boring to a depth of 20 feet in accordance with ASTM D-1586. The thickness of the asphalt and the nature and thickness of the base material will be checked at boring locations performed within the asphalt roadway.
6. Perform one (1) Auger boring to a depth of 10 feet in accordance with ASTM D-1452.



7. Perform two (2) South Florida Water Management District (SFWMD) exfiltration tests within 10 feet deep boreholes to obtain soil hydraulic conductivity values for others to use in the design of drainage facilities. The tests will be performed in accordance with the methods described in the SFWMD Permit Information Manual, Volume IV.
8. Following completion of the drilling operations, the boreholes will be backfilled with grout using the Tremie method and asphalt surface patched, as necessary.
9. Perform four (4) muck probes within the adjacent canals to evaluate the thickness of the surficial deposits within the canal.
10. Visually classify the collected soil samples in the field with laboratory confirmation/QC verification of classifications using the Unified Soil Classification System (USCS). Assign laboratory testing of selected soil samples for index property determinations limited to moisture content, fines content, and organic content tests to assist in classifying the soils for engineering purposes (ASTM 2487).
11. Perform a geotechnical analysis and prepare a geotechnical engineering report which will include, but not necessarily be limited to:
  - Detailed graphical logs of the soil borings showing the groundwater level and soil classifications.
  - Results of exfiltration tests.
  - Results of the laboratory tests.
  - Site preparation and pavement design recommendations.
  - Recommendations for design regarding excavation, trenching, pipeline installation, shoring requirements, fill and backfill, and compaction for the proposed work.

It is our understanding that our work is being performed within the Village of Wellington right-of-way and that a Right-of-Way Construction (or similar) permit will not be needed. A Temporary Traffic Control Plan will be prepared and implemented during our field exploration for safety purposes. If a permit is required, please notify us and we will revise our fee estimate accordingly.

Prior to the mobilization of the drilling equipment, WIRX will notify Sunshine State One-Call of Florida, Inc. (SSOCOF) of the planned exploration to allow affected utility companies the opportunity to mark the location of buried utility lines in the proposed exploration areas. The locating process will require a lead time of 3 to 5 business days. WIRX cannot take responsibility for damages to private underground lines or structures and/or underground services which do not subscribe to SSOCOF; their locations should be provided by the Client prior to commencement of the field work.

### **SCHEDULE/DELIVERABLES**

We will start the field exploration program within 4 weeks of notice to proceed. We preliminarily estimate that our field work will have a duration of 2 days. Laboratory testing will require about 1 week to complete following completion of the field work. We expect to provide the final report signed and sealed by a registered professional engineer within 5-6 weeks of notice to proceed; however, accelerations of this schedule may be facilitated, if needed.



## COMPENSATION & TERMS

Based upon our understanding of the project and interpretation of your requirements, we propose to perform the scope of work outlined previously for a lump sum fee of **\$13,137.00**, as outlined in Attachment A - Fee Breakdown.

Please sign and return Attachment B - Proposal Acceptance form as an indication of your acceptance of our proposal terms and authorization to proceed with the work. Our work will be performed in accordance with the General Terms and Conditions presented as Attachment C.

## CLOSURE

WIRX appreciates the opportunity to provide our services for this project, and trust that the scope of work and fee presented in this proposal are clear and understandable. Should the proposal contents require any clarification or amplification, please feel free to contact us.

Sincerely,  
**WIRX Engineering, LLC**



**Andrew Nixon, P.E.**  
Senior Engineer  
[AndrewNixon@wirxeng.com](mailto:AndrewNixon@wirxeng.com)

Attachments: A – Fee Breakdown  
B – Proposal Acceptance Form  
C – General Terms and Conditions







## Attachment A - Fee Breakdown

### Geotechnical Engineering Services Lake Worth Road / 120th Avenue Intersection Improvement Project Village of Wellington, Florida WIRX Proposal No.: 24-P-074

	Qty	Unit	Unit Price	Total
<b>1.0 FIELD EXPLORATION</b>				
1.1 <u>Field Work &amp; Utility Coordination</u>				
1.1.1 Staff Engineer	4	Hour	\$ 110.00	\$ 440.00
1.2 <u>Temporary Traffic Control - Est. 2 Days</u>				
1.2.1 TTC Plan - Project Engineer	4	Hour	\$ 135.00	\$ 540.00
1.2.2 Signs & Cones	2	Day	\$ 150.00	\$ 300.00
1.3 <u>SPT Borings (5 to 10' &amp; 1 to 20') &amp; Auger Boring (1 to 10')</u>				
1.3.1 Equipment Mobilization	1	Each	\$ 500.00	\$ 500.00
1.3.2 SPT Boring	70	Foot	\$ 18.00	\$ 1,260.00
1.3.3 Auger Boring	10	Foot	\$ 12.00	\$ 120.00
1.3.4 Grout Seal	80	Foot	\$ 6.00	\$ 480.00
1.4 <u>Exfiltration Tests (2 to 10')</u>				
1.4.1 Auger Boring	20	Foot	\$ 12.00	\$ 240.00
1.4.2 Exfiltration Test	2	Each	\$ 400.00	\$ 800.00
1.4.3 Grout Seal	20	Foot	\$ 6.00	\$ 120.00
1.5 <u>Canal Muck Probing</u>				
1.5.1 Engineering Technician	4	Hour	\$ 75.00	\$ 300.00
1.6 <u>MOT Supervisor, Field Supervision &amp; Soil Classification</u>				
1.6.1 Staff Engineer	16	Hour	\$ 110.00	\$ 1,760.00
		<b>TOTAL FIELD WORK</b>		<b>\$ 6,860.00</b>
<b>2.0 LABORATORY TESTING SERVICES</b>				
2.1 Natural Moisture Content	11	Test	\$ 22.00	\$ 242.00
2.2 Fines Content (-200)	7	Test	\$ 55.00	\$ 385.00
2.3 Organic Content	4	Test	\$ 55.00	\$ 220.00
		<b>TOTAL LABORATORY SERVICES</b>		<b>\$ 847.00</b>
<b>3.0 PROFESSIONAL ENGINEERING AND REPORTING SERVICES</b>				
3.1 Principal Engineer (QA)	2	Hour	\$ 195.00	\$ 390.00
3.2 Senior Engineer	8	Hour	\$ 165.00	\$ 1,320.00
3.3 Project Engineer	24	Hour	\$ 130.00	\$ 3,120.00
3.4 CAD Technician	8	Hour	\$ 75.00	\$ 600.00
		<b>TOTAL PROFESSIONAL SERVICES</b>		<b>\$ 5,430.00</b>
<b>TOTAL AMOUNT</b>				<b>\$ 13,137.00</b>



December 2, 2024

Garry Gruber, P.E.  
Mock, Roos & Associates, Inc.  
570 Corporate Way  
West Palm Beach, FL 33407

Re: Intersection Improvements at 120<sup>th</sup> Ave and Lake Worth Road – Landscape Architecture Services

Dear Mr. Gruber,

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Mock, Roos & Associates, Inc. ("Client") for providing landscape architecture services for the above referenced project.

### **Project Understanding**

The Client will be performing engineering design services as prime consultant to the Village of Wellington ("Village") for intersection improvements at 120<sup>th</sup> Ave and Lake Worth Road. Kimley-Horn will be providing landscape architecture and irrigation design services as a sub-consultant to the Client. It is anticipated that Kimley-Horn will provide planting plans for the project area as illustrated in the concept in Figure 1 along with irrigation sourced from the adjacent canal for the proposed plantings. Signage and hardscape elements are excluded from this scope of work.

Figure 1



## Scope of Services

### Task 1 – Conceptual Design

- A. Kimley-Horn will attend a design kick-off meeting with the Client and Village.
- B. We will conduct a site visit to observe existing conditions and assess potential design integration with surrounding spaces.
- C. Kimley-Horn will provide one conceptual design layout for planting opportunities within the project area consistent with Village aesthetics. Conceptual layout will account for lateral offsets and clear sight lines at the intersection. The concept deliverable will consist of a line drawing with limited color and plant labels to convey intent along with a materials palette showing photographs of proposed plant materials and groundcover alternatives.
- D. Opinion of Probable Construction Cost and Schedule: Consultant will prepare an Opinion of Probable Construction Cost (OPC) based on the concept.

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.

### Task 2 – Site Plan Rendering

Upon receiving Client input, Kimley-Horn will update the concept layout and prepare a site plan rendering for use during public engagement meetings.

### Task 3 – Construction Document Preparation

- A. Consultant will prepare construction documents for the Project. Construction Documents Milestones will be delivered as listed in the Deliverables section of this Task. Scope is based on the preparation of one set of documents to be included in the overall set for bidding.

The following are items that will be developed as part of the Construction Documents Preparation Phase:

1. Construction Drawings: Based on Client and public input gathered at the start of the project a set of Construction Plans suitable for submittal to the Engineering Department for permitting and for construction of the improvements will be developed that will consist of the following:
  - Landscape Plan & Details - Delineates plant material, plant quantities, plant schedules, specifications, and project-specific planting details as required.
  - Irrigation Plan & Details - Delineates irrigation equipment, quantities, piping layout, specifications, and project-specific irrigation details for one new source. Electrical

service design for controller or pump station is not included; this service is assumed to be provided by the project engineer or their MEP consultant.

2. Technical Specifications: Technical specifications, where applicable and required, will be placed on the plan drawings. Preparation of a separate technical specification manual is not included in this agreement.
- B. Opinion of Probable Construction Cost and Schedule: Consultant will update the Opinion of Probable Construction Cost (OPC) developed during the Conceptual Design based on the 60% and 90% milestone plan sets.
- C. Meetings and Coordination:
- Consultant will meet with the Client during construction document development to discuss progress and project development issues/items. Up to two (2) meetings are assumed to be held at the Village or via conference call. Meetings will be as follow:
- 60% Milestone Submittal
  - 90% Milestone Submittal

Meetings will have Village staff, Client, Consultant Project Manager, or suitable replacement (capable of decision making on behalf of the project manager) and other stakeholders determined by Client in attendance.

- D. Regulatory Agency Permitting:

Consultant will assist the Client in submitting for regulatory agency approvals by preparing permit applications with supporting documentation to the following jurisdictional regulatory agencies. Kimley-Horn will address up to two (2) rounds of reasonable review comments for the regulatory agency submittals identified below. Any plan revisions or comments that are required due to a design change by the Client or Client's consultants shall result in an additional service.

- SFWMD – Water Use Permit for Irrigation

- E. Deliverables

The following are the Milestone Submittals for the Construction Document Preparation Phase for each construction package identified in the Construction Documents Preparation task:

1. 60% Review Submittal – This submittal consists of 60% progress Landscape Plans and Preliminary Irrigation Plans depicting mainline routing and locations for points of connection. Deliverable will be a PDF of each of the above items emailed to Client.
2. 90% Review Submittal – This submittal consists of 90% progress Landscape Plans and Irrigation Plans for final review. Details and technical specifications will be provided on the plan sheets. This submittal will incorporate responses to the Client's review of the 60% submittal and will be used at the 90% design review meeting noted above. Deliverable will be a PDF of each of the above items emailed to Client.
3. Permit Documents –This submittal consists of the construction drawing package and will incorporate responses to the Client's review of the 90% submittal and revisions required as a result of the 90% design review meeting. This submittal is defined herein as coordinated



documents without permit revisions and without bid addenda. These documents will be submitted signed and sealed for permit submission to the building department.

4. Bid Set Submittal –This submittal consists of the completed construction drawing package prepared for bidding, incorporating revisions in response to Building Department comments. This submittal is defined herein as final and coordinated documents without bid addenda.

#### Additional Services

Any services not specifically provided for in the above scope will be billed as additional services and performed at our then current hourly rates. Services that we can provide are as follows:

1. Utility Coordination
2. Public involvement/public outreach
3. Civil Engineering
4. Permitting Assistance beyond what is described in the scope of services
5. Construction Phase Services

#### Information Provided by Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information requested by Kimley-Horn during the project, including but not limited to the following:

1. AutoCAD survey files including subsurface utility information
2. AutoCAD borders/CADD standards for the project
3. AutoCAD base files
4. Coordination of meetings for the project

#### Fee and Expenses

Kimley-Horn will perform the scope of services for the total lump sum fee of \$37,000 All permitting, application, and similar project fees will be paid directly by the Client.

Task 1 – Conceptual Design	\$8,000
Task 2 – Site Plan Rendering	\$2,750
Task 3 – Construction Document Preparation	\$26,250
<b>Total</b>	<b>\$37,000</b>

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.



## Closure

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Mock, Roos & Associates, Inc.

Kimley-Horn, in an effort to expedite invoices and reduce paper waste, submits invoices via email in an Adobe PDF format. We can also provide a paper copy via regular mail if requested. include the invoice number and Kimley-Horn project number with all payments. Please provide the following information:

\_\_\_\_\_ Please email all invoices to \_\_\_\_\_

\_\_\_\_\_ Please copy \_\_\_\_\_

If you concur in all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute both copies of this Agreement in the spaces provided below, retain one copy, and return the other to us. We will commence services only after we have received a fully-executed agreement. Fees and times stated in this Agreement are valid for sixty (60) days after the date of this letter.

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



By: Kevin Schanen, P.E.  
Senior Vice President / Principal



Tricia Richter, PLA  
Project Manager

Attachment – Standard Provisions

# C & W engineering Inc.

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Consulting Engineers – Electrical • HVAC • Plumbing

6903 Vista Parkway North, #10  
West Palm Beach, FL 33411  
(561) 642-5333

December 5, 2024

Garry Gruber, P.E.  
Mock Roos & Associates, Inc.  
5720 Corporate Way  
West Palm Beach, FL 33407

Subject: Village of Wellington 120<sup>th</sup> Ave & Lake Worth Road Round-about Lighting  
Electrical Design Proposal  
C&W Ref. 246806

Dear Garry:

I am pleased to submit this proposal for the Village of Wellington 120<sup>th</sup> Avenue and Lake Worth Road Round-about entrance lighting. We will prepare photometrics lighting design for the above subject above. The photometrics design will include new electrical service, lighting pole/fixture specification, pole details and lighting controls. The plans will detail fixture types and location. It is our understanding that there may be a need to provide power to a landscape irrigation pump based on the landscape architect's requirements. This proposal would address the irrigation pump power requirements. We will coordinate with the design team and Village personnel to implement fixtures and poles based on the Village's existing lighting requirements.

## **Project Understanding:**

1. The proposed lighting to the new round-about proposed at the intersection of 120<sup>th</sup> Avenue and Lake Worth Road.
2. The photometric design will be based on the Village of Wellington requirements and the Palm Beach County lighting code as it applies to this location. The photometry design will dictate the light pole locations to meet lighting code requirements.
3. The entrance to the round-about will be included into this design, no portions of roadway or parking areas are to be included in this lighting design.
4. We will design the Electrical Service to power the round-about lighting based on the areas proposed in your email.
5. The lighting should be similar the existing Stribling Road round-about.
6. We will provide photometric plans limited to the layout of decorative fixtures.

7. Based on the pole and fixture locations, the electrical design drawings will include the electrical service and circuiting of the lighting along with lighting controls based on the Village's desired means of control (time clock, photocell, or a combination of the two).
8. New electrical service on pipe stand rack will be designed to power an irrigation pump. Location to be determined.
9. Equipment specifications and means and methods standards and requirements will be included along with the drawings.
10. Design phase is based on a 90% submittal for review and comment, and 100% bid documents; both submittals would include opinion of construction costs.
11. Coordination/review meetings with the engineering team and the Owner at percent completion levels are included. We would implement review comments into the following submittal.
12. Construction phase services are **not** included at this time but may be made available upon request.
13. A nighttime compliance test of the installed area lighting will be provided during the construction phase at the completion of the installation and testing phase; this service would be included into the construction services. We will issue a signed and sealed certification letter to the county.

### **DESIGN SERVICES**

#### Coordination

Mock Roos & Associates, Inc.  
Engineering Team  
Owner  
Vendors

#### Field Investigation

#### Engineering

#### Anticipated Drawings

Overall Site Plan, with legend sheet and equipment specifications.

A photometrics lighting plan to include light pole, pull box, and fixture detail, this may include up to two plan sheets as needed.

Electrical design drawings showing location on plans of lighting circuits, equipment rack with panel, and timer equipment, along with the source of power. We would provide up to two electrical plans per location to show all electrical equipment.

Electrical drawings showing location of electrical service and irrigation pump with control details per the landscape architect's requirements.

C&W Ref:246806

Provide lighting and electrical equipment specifications, means and methods specifications, and make these bid ready.

Provide documents for Review and Approval at the 90%, and 100% completion level.  
Prepare Opinion of Costs at the 90%, and 100% completion level.

We will provide signed and sealed permit drawings for review at the end.

We have included permitting assistance, respond to inspector/reviewer questions.

We will provide bidding assistance services and attend a pre-bid meeting and respond to bidder questions.

We will prepare an addendum if required during bidding.

No construction phase services provided at this time, but available upon request.

<b><u>Lighting and Electrical Design FEE:</u></b>	<b>\$ 8,500.00 lump sum</b>
<b><u>Photometrics Plan Approval:</u></b>	<b>\$ 2,500.00 lump sum</b>
<b><u>Bidding Services:</u></b>	<b>\$ 1,500.00 lump sum</b>

I trust the above scope is in agreement with your needs and expectations.  
If you have questions or comments regarding the above, please feel free to call.

Very truly yours,

**C & W Engineering Inc.**



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Michael Guida, P. E.

JLR/nl/file