

Kimley»Horn

April 28, 2022

Mr. Dean Mealy, II CPPO
Town of Palm Beach – Purchasing Division
951 Old Okeechobee Boulevard, Suite 'D'
West Palm Beach, Florida 33401

Re: Post-Mounted Signal Design
Town of Palm Beach, Florida

Dear Mr. Mealy:

Kimley-Horn and Associates, Inc. ("Kimley-Horn") is pleased to submit this agreement to the Town of Palm Beach ("the Client", "Town" or "You") for providing professional engineering services associated with the development of design plans related to post-mounted traffic signal replacement at three intersections in the Town of Palm Beach, Florida.

PROJECT UNDERSTANDING

It is our understanding that the Town desires to replace the mast-arm traffic signals with post-mounted signals on Florida Department of Transportation (FDOT) controlled roads. Replacements are being considered at the following intersections ("subject locations"):

- Hammon Avenue & South County Road
- Worth Avenue & South County Road
- Peruvian Avenue & South County Road

We have prepared this agreement to prepare signal design plans.

SCOPE OF SERVICES

BASE MAPPING

Existing Intersection surveys will be utilized at the subject locations. The surveys will be updated to include right-of-way information. If any roadway widening plans are proposed, the Town shall provide roadway widening plans including proposed lane widths, edges of pavement, right-of-way, signing, pavement markings, above-ground and underground utilities, sidewalks, and topography at the four corners of the subject intersection. The electronic plans file will be utilized to develop a base map from which the traffic signal will be designed. Kimley-Horn will review each intersection in the field using the base map plot as a reference.

60% SIGNAL PLAN PREPARATION

Kimley-Horn will develop a Conceptual Signal Plan for each subject location for the 60% review stage. We will attend one kick-off meeting with the Town to discuss project details. We will also visit each site

to observe the existing conditions that may affect the design. For each intersection, the Conceptual Signal Plan will indicate the location of the proposed signal poles, controller, signal head placement, pedestrian signal heads and pushbuttons, and electrical service. Kimley-Horn will coordinate with the Town of Palm Beach Public Works Department to determine the location or relocation of the signal hardware. We will also coordinate with utility owners in the area to obtain information about existing utilities and to identify potential conflicts.

Kimley-Horn will submit the Conceptual Signal Plans to the Town of Palm Beach Public Works Department and FDOT, and attend one plan review meeting with Town staff. Kimley-Horn will reference the FDOT standard specifications and provisions for each subject intersection.

Kimley-Horn will coordinate with Town and FDOT Staff to address comments on the preliminary design and then proceed to prepare the 90% Signal Plans Package.

90% SIGNAL PLAN PREPARATION

For each intersection, Kimley-Horn will prepare a set of traffic signal design plans and furnish a Signal Plans Package in accordance with professionally accepted traffic signal plans preparation standards for each intersection. Each Signal Plans Package will be prepared for the 90% review stage, including proposed conduit layout, pay items, general notes, key sheet, detector schedules, traffic signal head legend, structural plan sheets, signal operations plan (SOP), and previously incorporated comments. If easements are required, Kimley-Horn will obtain sketch and legal descriptions for the proposed easements. Easement agreement preparation and negotiations will be performed by others.

Each Signal Plans Package will consist of: (1) Key Sheet; (2) General notes; (3) Tabulation of quantities; and (4) Signalization plan by which to install the signal posts, signal heads, vehicle detectors, and other equipment in the construction of the traffic signal at the subject intersections. Design sheets will be included as part of the Signal Plans Package. Kimley-Horn will prepare an engineer's opinion of probable cost and reference the FDOT standard specifications and provisions for each subject intersection.

The Signal Plan Package will be submitted to the Town of Palm Beach Public Works Department and FDOT for their review and comment. Kimley-Horn will meet once with the Town to review comments and will coordinate with the Town regarding any comments and then proceed to address comments and begin preparation of the Final Signal Plans Package.

Kimley-Horn will coordinate with a subsurface utility location firm to obtain underground and overhead utility locations. Soft-dig information will be provided at each of the proposed pole locations. Up to two digs per corner will be performed.

STRUCTURAL CALCULATIONS

Geotechnical design data is required for the signal pole foundation designs. Kimley-Horn will obtain the appropriate Standard Penetration Test (SPT) soils boring information from a licensed geotechnical engineer.

Kimley-Horn will review the soil boring data and spot elevations and coordinate with the Town's

preferred signal pole fabricator to prepare structural calculations. Kimley-Horn will prepare a structural calculation package for a standardized foundation design. The design plan sheets and calculations shall be developed in accordance with FDOT design requirements.

SUBMIT FINAL SIGNAL PLANS

Kimley-Horn will prepare Final Signal Plans for each subject intersection upon Town of Palm Beach Public Works Department and FDOT review and approval of the 90% plans.

FINAL ACCEPTANCE OF TRAFFIC SIGNAL CONSTRUCTION

Upon final acceptance of the signal plans, Kimley-Horn will prepare an engineer's opinion of probable construction cost and reference the FDOT standard specifications and provisions for each subject intersection.

BID PHASE SERVICES

We will attend the pre-bid meeting and provide answers to questions during the bidding process. WE will review the bid proposal of the apparent low bidder and provide a summary memorandum of our findings. It is understood that the Town will administer the bidding process in-house.

ADDITIONAL SERVICES

The following services are not included in the scope of services, but can be provided as additional services if authorized by the Client. Compensation for additional services will be agreed to prior to their performance.

- Plan revisions outside of those described in the above tasks
- Utility relocation plans
- Permitting with agencies other than Town of Palm Beach Public Works and FDOT
- Attendance at additional meetings or at public hearings
- Preparation of emergency vehicle pre-emption plans
- Traffic counts to determine initial signal timings
- Development of design modifications due to revisions in Florida Department of Transportation design standards
- Preparation of additional plan sets
- Construction phase services

Additionally, if a temporary signal is required prior to or during the construction at any of the subject intersections, temporary signal design, and structural calculations will be provided as Additional Services.

SCHEDULE

We will provide our services as expeditiously as practical to meet a mutually-agreed-upon schedule.

FEE AND BILLING

Kimley-Horn will perform the services described in this Scope of Services for the above tasks on an hourly basis in accordance with our Contract with the Town. We recommend that a budget of \$82,028 be established for the project. A breakdown of this fee is attached to this proposal.

CLOSURE

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the terms and conditions in the Professional Services Agreement between the Town of Palm Beach and Kimley-Horn and Associates, Inc., dated July 10, 2019, which are incorporated by reference. As used in the Agreement, the term "CONSULTANT" shall refer to Kimley-Horn and Associates, Inc., and the term "TOWN" or "CLIENT" shall refer to The Town of Palm Beach.

If you concur in all the foregoing and wish to direct us to proceed with the services, please notify us by providing a purchase order for the scope and fees described above.

We appreciate the opportunity to propose these services to you.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



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



Adam B. Kerr, P.E.
Project Manager

Attachment