

VILLAGE OF WELLINGTON
UTILITY ENGINEERING SERVICES WORK AUTHORIZATION
VOW WTP TRAIN 7 BUILD-OUT

This Work Authorization authorizes Kimley-Horn and Associates, Inc. to perform work set forth herein and is issued pursuant to the Agreement for Consulting Services, between Wellington (“Client” or “Village”) and Kimley-Horn and Associates, Inc. (“Consultant” or “Kimley-Horn”), dated February 9, 2016 (“Agreement”). All terms and conditions of said Agreement are hereby incorporated and made part of this Work Authorization.

BACKGROUND

The original design for the 2017 WTP Renewal and Replacement (R&R) Project contemplated equipping RO Train No. 7, located in the RO 2 Building, at 50% capacity. The Village has determined that they wish to expand Train No. 7 to its full capacity (1.8 MGD). It may be necessary to also expand some of the peripheral plant components (principally degasification, off-gas scrubbers and associated appurtenances) in order to be able to realize the benefits of expanding Train No. 7. Additional modifications to the primary facilities identified above include, but are not limited to, extension of the chemical feed systems for the scrubbers, new blower, tie-in piping/valving, FRP duct work and associated electrical and control. The authorization will cover the associated design, permitting, and bidding services. Construction stage services are not included as part of this scope of work.

The following is a list of the tasks that will be performed and a description of the scope of work involved for each task.

SCOPE

The services authorized herein include the components, as follows:

Task 1 – Preliminary Engineering and Technical Design Memorandum

- A. Kimley-Horn will conduct a review of the operating conditions and performance requirements of the WTP components included in this plant expansion as described in the Background section of this Work Authorization. Kimley-Horn will prepare and issue a Technical Design Memorandum that presents the findings and recommendations of this review to serve as the Basis of Design for Task 2.

- B. Kimley-Horn will present the findings at a review meeting with Village staff to discuss the findings and receive comments from the Village for incorporation in the final Technical Design Memorandum. The Village’s comments will be incorporated into the final Memorandum.

Task 2 – Train No. 7 Build-out Design, Permitting, and Bidding

- A. Kimley-Horn will prepare construction plans and specifications for the build-out of Train No. 7 in accordance with the Basis of Design established under Task 1.

- B. Kimley-Horn will prepare an Opinion of Probable Construction Cost for the Project when the Construction Documents are at 60%, 90% and 100% complete.
- C. Kimley-Horn will engage and coordinate with an electrical engineering subconsultant to provide design and permitting for the Train 7 build-out electrical and I&C improvements.
- D. Kimley-Horn will present the plans, specifications, and construction cost opinion to the Village for review at 60% and 90% completion.
- E. Kimley-Horn will prepare and submit the applicable Palm Beach County Health Department permit application for the project and will assist the Village in responding to Requests for Additional Information through the permitting process.
- F. Kimley-Horn will assist the Village with the contractor procurement process including attendance at the pre-bid meeting, assistance with response to bidder RFIs, addenda preparation assistance, review of the apparent low bidder's proposal, and preparation of a written summary review of the bids.
- G. Kimley-Horn will assist the Village and Contractor with the Building Permit application and Building Department Requests for Additional Information associated with the build-out of Train No. 7
- H. Kimley-Horn will prepare and submit a Water Treatment Plant Re-Rating Report as defined in FAC 62-555.528 to obtain a plant rated capacity of 12.3 MGD and will assist the Village in responding to Requests for Additional Information through the re-rating process.
- I. Kimley-Horn will prepare and submit a Water Treatment Plant Capacity Analysis Report as defined in FAC 62-555.348 to obtain a plant rated capacity of 12.3 MGD and will assist the Village in responding to Requests for Additional Information through the re-rating process. The Village will provide Kimley-Horn 10-years of past water production data and 10-years of projected water demands as defined in FAC 62-555.348.

ADDITIONAL SERVICES

Any services not specifically provided for in the above scope, as well as any changes in the scope requested by the Village, will be considered additional services to this Work Authorization and will be performed based on subsequent Work Authorizations approved prior to performance of the additional services.

ASSUMPTIONS AND INFORMATION / SERVICES PROVIDED BY THE VILLAGE

Kimley-Horn assumes that all information provided by the Village can be relied upon in the performance of professional services.

ASSUMPTIONS AND CLARIFICATIONS

The fees stated in this Work Authorization are based on the following assumptions and clarifications:

1. This authorization will be approved, and the design/permitting work completed in time for the construction to be completed without changes to the 2017 WTP R&R project construction contract time.
2. Permit application fees will be paid directly by the Village
3. The Kimley-Horn fee structure assumes timely completion within the terms of the construction contract. Failure of the Client's contractor(s) to complete the projects within the original contract term may result in an adjustment to the Kimley-Horn's compensation, subject to mutual acceptance of the Client and the Kimley-Horn.
4. The WTP re-rating to 12.3 MGD is based on the current capacity of the lime softening process (4.7 MGD), re-rating RO1 to 4.0 MGD, and re-rating RO2 to 3.6 MGD. The 2017 WTP R&R construction project includes improvements and modifications to RO1 for 4.0 MGD of capacity and RO2 for 2.7 MGD of capacity.
5. The Re-Rating Report as defined in FAC 62-555.528 will include the improvements and modifications performed under the 2017 WTP R&R construction project and the build-out of Train 7.
6. Information related to the adequacy of the raw water supply to support the 12.3 MGD capacity rating will be supplied by the Village.
7. The Task 2 fee development is predicated on the work required to expand Train No. 7 including the expansion of the peripheral plant components including degasification, off-gas scrubbers, chemical feed systems for the scrubbers, new blower, tie-in piping/valving, FRP duct work, associated appurtenances, and associated electrical and control
8. The past 10-years of water production including annual average daily and maximum-day quantities of finished water produced will be provided by the Village for the Capacity Analysis Report as defined in FAC 62-555.348(4)(b).
9. The 10-year projected total water demands (total annual average daily water demand and total maximum-day water demand with fire-flow demand) will be provided by the Village for the Capacity Analysis Report as defined in FAC 62-555.348(4)(c).

SCHEDULE

The work set forth in the Scope shall be completed within 90 days of receipt of a Purchase Order, exclusive of delays beyond the control of the Kimley-Horn. The schedule assumes input required from the Village will be supplied within one week of request for same.

COMPENSATION

Kimley-Horn will perform the services described in the Scope of Services on a lump sum basis for \$99,645.

Accepted by:

Village of Wellington

Kimley-Horn and Associates, Inc.

Anne Gerwig, Mayor

Kevin Schanen, P.E., Sr. Vice
President

Date: _____

Date: _____