



January 14, 2025

Dean Mealy
Town of Palm Beach
951 Old Okeechobee Road
Suite A
West Palm Beach, FL 33401

RE: *D-3 Generator Replacement and E-7 Liftstation Improvements*

Dear Dean,

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "CONSULTANT") is pleased to submit this proposal to The Town of Palm Beach ("TOWN" or "CLIENT") for providing professional engineering services related to the replacement of the D-3 Generator and mechanical and electrical improvements to the E-7 Liftstation in the Town of Palm Beach. Our project understanding, scope of services, and fee follows.

Project Understanding

It is understood that the Town is interested in replacing the D-3 generator and making improvements to the E-7 Liftstation in order to increase operational reliability. Items that will be addressed have been identified during the October 30, 2024 site visit to the D-3 generator and E-7 Liftstation with Town of Palm Beach Public Works staff. The improvements are anticipated to require a FDEP permit and a Town of Palm Beach Building permit. Below are the improvements identified for each site.

E-7 Liftstation

- Replace pumps and rails
- Replace bypass pipe, valve and cam-lok
- Rehabilitate wetwell and valve vault (new coating)
- Replace hatches in both the wetwell and valve vault with H-20 rated hatches
- Replace piping and valves within the valve vault and wetwell
- Replace odor control system
- Replace the electrical control panel
- Replace all conduits into the wetwell

D-3 Generator

- Replace generator with sound enclosure, base fuel tank, and generator foundation
- Replace generator access catwalk
- Replace ATS
- Replace Main Disconnect

Scope of Services

Task 1 – E-7 Odor Control Evaluation

We will evaluate up to three odor control systems for the E-7 liftstation. We will provide a summary of the technology the odor control systems utilize along with any ancillary systems that are required, such as a water service or compressed air source. We will outline advantages and disadvantages of the odor control system along with any regulatory requirements and direct benefits for employing the specific system. We will provide an opinion of probable construction cost for each odor control system. We will provide a decision-making criteria analysis. These criteria will apply a ranking the importance of various aspects of utilizing each odor control system. Each aspect will receive an unweighted value along with a corresponding score for each alternative considered. The total of these scores will create an overall ranking system to assist the Town with selecting an odor control system. Lastly, we will provide a technical memorandum that summarizes the information collected described above. We will meet with the Town to discuss the findings of the Technical Memorandum and receive direction for which odor control system to progress into design during Task 2.

Task 2 – Design Phase Services

We will attend a kickoff meeting with the Town to discuss the project goals. We will visit the sites two times to support the design services. Kimley-Horn will perform design services to prepare construction plans and specifications for the generator replacement and liftstation improvements suitable for construction and submittal to Palm Beach County Health Dept. and the Town's Building Department containing the following information:

1. Cover Sheet
2. Overall Site Plan
3. D-3 Demolition Plan
4. D-3 Site Plan
5. D-3 Elevations
6. D-3 Foundation Plan
7. D-3 Catwalk Framing Plan and Details
8. E-7 Demolition Plan
9. E-7 Site Plan
10. E-7 Wetwell and Valve Vault Sections and Details
11. E-7 Odor Control and Details
12. E-7 Wetwell Concrete Repair Details
13. Overall Electrical Site Plan
14. D-3 Electrical Demolition Plan
15. D-3 Electrical Equipment Plan
16. D-3 Oneline Diagram
17. D-3 I&C Diagram/Riser
18. D-3 ATS Replacement
19. D-3 Fuel Tank Sensors and wiring status signals

20. D-3 Branch Power Circuits for battery charger and heater
21. E-7 Electrical Demolition Plan
22. E-7 Electrical Equipment Plan
23. E-7 I&C Diagram/Riser
24. E-7 Control Panel Schematics
25. General Construction Details Sheet(s)
26. Technical Specifications

Electrical plans and specifications will be prepared by a subconsultant employed by Kimley-Horn. Kimley-Horn will prepare general civil, mechanical, and structural technical specifications. The site plans will be developed using the existing record drawings and field measurements. If it is determined that a survey is required during the permit approval process, we can provide this as an additional service.

We will submit plans and specifications for review at 60% and 90% completion stages, meet with the Town to review their comments, and accommodate one round of reasonable requests for revisions by the Town after each review. We will provide an opinion of probable construction cost at the 90% design stage and update this document with the final design submittal.

Task 2 – Permitting Services

Kimley-Horn will prepare and submit the appropriate Florida Department of Environmental Protection (FDEP) permit application with supporting documentation, reports, and computations for the Owner's signature and subsequent transmittal to the City of West Palm Beach and the Palm Beach County Health Department. We will respond to one (1) reasonable request for additional information (RAI) from the Health Department. The \$500 application fee is included within this task.

Task 3 – Bid Phase Services

Kimley-Horn will attend the pre-bid meeting, review the bid proposal from the apparent low bidder, and prepare a bid tabulation and memorandum to the Town containing our findings after our review of the bids. We will also assist the Town with responding to questions received from prospective bidders, if required. We will provide up to 5 signed and sealed copies of the construction documents for the Town to distribute to the selected contractor for permitting. We will respond to one round of reasonable comments from the building department after submittal by the Town/contractor, if required. We will provide an "Issued for Construction" set of construction documents incorporating permit comments and any revisions that occurred during the bid advertisement.

Additional Services

Any services not specifically provided for in the above scope, as well as any changes in the scope you request, will be considered additional services. These services will be performed based on proposals

approved by the Town prior to the performance of those requested additional services. Additional services we can provide include, but are not limited to, the following:

- Surveying and Mapping, Construction Layout
- Record Drawing data collection and development
- Field Engineering
- Off-site improvements
- Construction Phase Services

Information Provided By the Town

We shall be entitled to rely upon the accuracy of information provided by others in the performance of professional services. It is anticipated that the following items will need to be provided to Kimley-Horn by the Town during the project.

- Access to the site
- Available record drawings and data

Schedule

We will provide our services as expeditiously as practical to meet a mutually agreed upon schedule. It is understood these improvements are desired to be constructed in the summer of 2026.

Fee and Billing

Kimley-Horn will perform the services described in this Scope of Services on an hourly basis in accordance with our Contract with the Town. It is recommended that the following budgets be established for these services:

Task 1 – Odor Control Evaluation	\$ 9,250
Task 2 – Design Phase Services	\$133,000
Task 2 – Permitting Services	\$ 10,550
Task 3 – Bid Phase Services	\$ 9,050
Total	\$161,850

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, 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.

We appreciate the opportunity to propose these services to you.

Very truly yours,

KIMLEY-HORN AND ASSOCIATES, INC.



Jason Lee, P.E.
Vice President

Attachment

K:\WPB_Civil\General\Lee\Proposals\Palm Beach\D-3 Generator & E-7 Lift Station Improvements\D-3 Generator Replacement and E-7 Lift Station Improvements.docx

ESTIMATE FOR ENGINEERING SERVICES

PROJECT:	D-3 Generator Replacement and E-7 Liftstation Improvements						SHEET 1 of 1													
CLIENT:	Town of Palm Beach						FILE NO.													
ESTIMATOR:	JRL						DATE: 01/14/25													
							ALLOCA 0.0000													
DESCRIPTION:							DIRECT LABOR (MAN-HOURS)													
See Scope of Services							Principal Engineer	Chief Engineer	Sr. Eng Advisor	Sr. Prof. Eng	Reg. Prof	Engineer Intern	Analyst	Sr. Admin	Sr. Designer	SUB (C&W)	EXP	LINE TOTAL		
																		\$0		
E-7 Odor Control Evaluation																		\$0		
Coordinate with four odor control system representatives									1.0			3.0					\$29	\$756		
Review odor control technology employed									1.0			3.0						\$727		
Review requirements to install each odor control system									1.0			3.0						\$727		
Outline advantages and disadvantages									1.0			3.0						\$727		
Opinion of Probable Construction Cost									1.0			6.0						\$1,163		
Decision making criteria analysis									1.0			3.0						\$727		
Technical Memorandum							1.0		2.0			12.0						\$2,722		
Meeting with Town							1.0		3.0			3.0						\$1,702		
																		\$0		
Design Phase Services																		\$0		
Kickoff Meeting									3.0			3.0							\$1,307	
Site Visit (2)									6.0			8.0					\$18	\$2,923		
Hydraulics Review/ Pump Selection							2.0		6.0			16.0						\$4,859		
Pump Selection / Supplier Coordination							2.0		6.0			16.0		2.0				\$5,111		
Wetwell and Hatch Selections / Supplier Coordination							1.0		4.0			16.0		2.0				\$4,136		
E-7 Top Slab Structural Design							1.0		4.0			8.0						\$2,720		
E-7 Odor Control Selection Calcs							2.0		6.0			16.0		2.0				\$5,111		
D-3 Generator Foundation Calcs							1.0		4.0			8.0						\$2,720		
D-3 Generator Catwalk Calcs							1.0		6.0			16.0						\$4,464		
Develop Construction Phasing Plan							2.0		6.0			4.0						\$3,112		
Construction Plans																			\$0	
Cover Sheet												1.0							\$146	
Overall Site Plan							1.0		3.0			8.0							\$2,430	
D-3 Demolition Plan									6.0			8.0							\$2,905	
D-3 Site Plan							1.0		6.0			16.0							\$4,464	
D-3 Elevations							1.0		3.0			12.0							\$3,012	
D-3 Foundation Plan							1.0		3.0			12.0							\$3,012	
D-3 Catwalk Framing Plan and Details							1.0		3.0			16.0							\$3,594	
D-3 Electrical Plans and Details							1.0		3.0			6.0			18000.00			\$20,138		
E-7 Demolition Plan									3.0			6.0							\$1,743	
E-7 Site Plan							1.0		6.0			24.0							\$5,629	
E-7 Wetwell Sections and Details							1.0		3.0			12.0							\$3,012	
E-7 Odor Control Details							1.0		3.0			12.0							\$3,012	
E-7 Wetwell Concrete Repair Details							1.0		3.0			8.0							\$2,430	
E-7 Electrical Plan and Details							1.0		3.0			6.0			10000.00			\$12,138		
General Construction Details							1.0		3.0			8.0							\$2,430	
Technical Specifications							1.0		16.0			24.0		8.0					\$9,536	
OPC									12.0			24.0							\$6,974	
60 and 90 review meetings and submittals							1.0		8.0			16.0		4.0					\$5,548	
Respond to comments and produce final plans							1.0		4.0			16.0		4.0					\$4,388	
																			\$0	
Permit Phase Services																			\$0	
Prepare Permit Application							1.0		2.0			4.0		1.0			\$46		\$1,729	
Prepare Supporting Documentation							1.0		2.0			4.0		2.0					\$1,809	
Permit Application Fee														2.0	750.00	\$500		\$1,502		
Submit to City of WPB												2.0		2.0					\$543	
Submit to PBCHD												2.0		2.0					\$543	
Respond to Comments							1.0		3.0			6.0		1.0					\$2,264	
Respond to TOPB Building Permit Comments									3.0			8.0		1.0					\$2,160	
																			\$0	
Bid Phase Services																			\$0	
Prepare Documents							1.0		2.0			8.0		2.0					\$2,391	
Attend Pre-Bid Meeting, attend field visits, prepare minutes									2.0			4.0		2.0	750.00	\$90			\$2,254	
Respond to Contractor RFIs									4.0			8.0		3.0						\$2,702
Review Bids and prepare summary memorandum									4.0			2.0		2.0						\$1,703
																			\$0	
																			\$0	
																			\$0	
TOTAL HOURS							33.0	0.0	175.0	0.0	0.0	430.0	0.0	42.0	0.0	29500	683		\$161,850.00	
LABOR (\$/HOUR)							395.00	355.00	290.00	230.00	183.76	145.57	133.43	125.88	246.60	1.00	1.0			
ALLOCATION							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
TOTALS							13,035.00	0.00	50,750.00	0.00	0.00	62,595.10	0.00	5,286.96	0.00	29,500.00	682.94		\$161,850.00	