



March 8, 2018

Mr. James Bouquet, P.E.
Engineering Director
CITY OF KEY WEST
1300 White Street
Key West, FL 33040

Phone: (305) 809-3962
email: jbouquet@cityofkeywest-fl.gov

Re: Proposal for Engineering Design Assessment Services
For Keys Diesel Plant Buildings
Project Number: 18 PROP-MIAM-6788-08

Dear Mr. Bouquet:

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), is pleased to submit this proposal to provide Engineering Design Assessment Services for the Keys Diesel Plant project. This proposal outlines our understanding of the project information, our proposed scope of services, associated fees and schedule, and method by which you can authorize our services.

PROJECT INFORMATION

The Key West Diesel Plant property site, located at 101-111 Geraldine Street, in Key West, currently contains five (5) buildings (see Image 1). The City of Key West Chief Building Official (CBO) issued an order dated February 21, 2018 to demolish Buildings III, IV and V (see Image 2) at the specific location. The order for buildings I and II included the following repairs:

1. Storm resistant roofing to Building II both covering and structural.
2. Closing of all openings in Buildings I and II to improve storm resistance.
3. Structural repairs to Buildings I and II exterior walls to consist of historic brick and mortar compatible with the existing.
4. All exterior repairs are to be approved by the Historic Architectural Review Commission (HARC).

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Image 1: Google Earth image of the site plan.

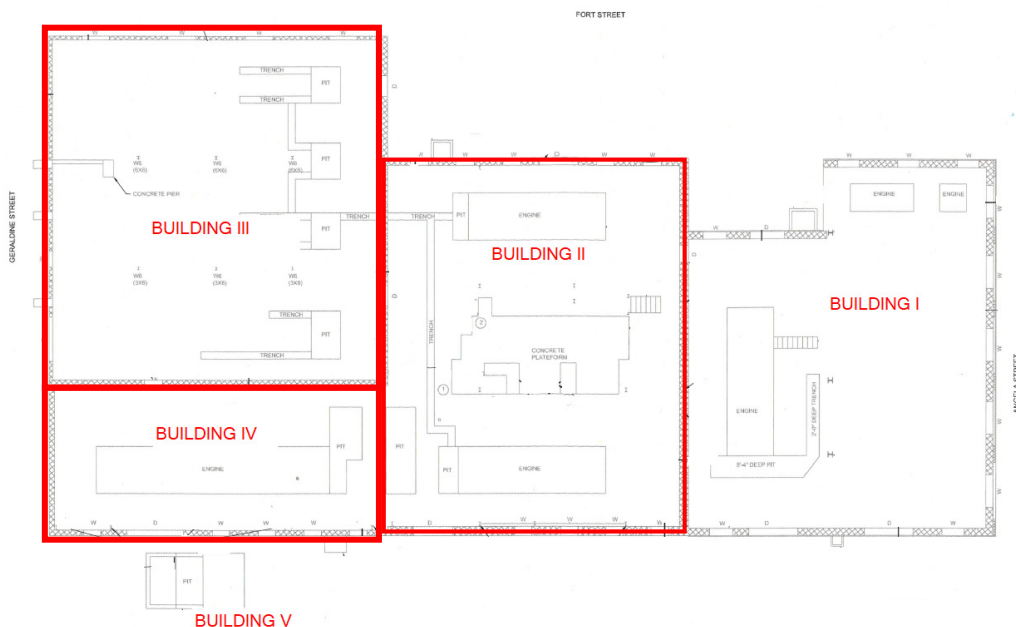


Image 2: Location of Buildings.

The buildings in the property were part of a gas plant (KWGE 1884 to 1889), then operated as an electrical power plant using dynamo engines for generation (1890 to 1960s). The property is unoccupied and closed to the public with a perimeter fence.

Based on our site visit visual inspection on 12/6/17 and 2/21/2018 it was our recommendation to the City of Key West to perform a detailed engineering assessment of Buildings I and II. The visual level of deterioration on the existing structure originates such request in order to quantify the level of repair and to do a preliminary estimate of the cost of repair. All repair suggested procedures will be based on the Florida Building Code 2017 Edition, Existing Buildings.

On 3/7/2018 it was requested to modify our initial proposal to include Buildings III and IV on our site assessment. The initial scope of work and cost has been modified to accommodate the City request.

Scope of services (Summary):

1. Amec Foster Wheeler will perform a site visit and laser scanning of the facility (Buildings I-IV). This will help to build up three-dimensional environment where an assessment of the existing elements on buildings I thru IV are present.
2. Evaluation of the existing laser scanning data.
3. Assessment of the elements that needs replacement based on the Order to Repair, Alter, or Improve Buildings from the Chief Building Official from the City of Key West dated 2/21/2018 and additional request on 3/7/2018.
4. Cost estimates of the repairs and elements that need replacement
5. Report of findings, recommendations and conclusions.

Task 1: Engineering Assessment

Amec Foster Wheeler will schedule a site visit to perform a laser scanning of the facility. This will help in include all the existing elements and to assess on a virtual environment the proposed repair task. Laser Scanning / LiDar is an efficient and cost-effective way to collect and record existing conditions of a site or building. The technology is based on the use of millions of laser beams projected from the device that will bounce off exiting surfaces on the areas being scanned. The scanner then record the X,Y,Z (local axis) location of those surfaces along with color information. This allows the project team to capture a great amount of data and obtain and extract measurements from areas that not easily accessible and or where not originally considered.

Amec Foster Wheeler will document the existing conditions based on the laser scanning and site visit and determine which elements from the existing structure need repair, strengthening and replacement. The assessment will consider the repairs noted in the order from the CBO.

Amec Foster Wheeler will develop and submit a preliminary engineer's estimate of the suggested repairs based on the findings of the laser scanning and assessment.

Amec Foster Wheeler will develop and submit a technical memorandum documenting the assessment, recommendations, conclusions and noted repairs to the City of Key West for review and approval.

Deliverables:

Technical Memorandum with the results of Amec Foster Wheeler's laser scanning, site visit, estimating and conclusions on Buildings I, II, III and IV.

EXCLUSIONS

- Design or documentation of adjacent areas outside this scope of work.
- Engineering for any structural, electrical, mechanical, fire protection, environmental or plumbing design not specifically a part of the scope above that may be required by the 2017 FBC or local AHJ.
- Discussion with or application for approval from any historic preservation authorities.

SCHEDULE

We have provided the schedule below as an estimate of the time required to complete each task. We assumed that we will receive a task assignment for this project by April 2018. The actual schedule will depend on City's review and permitting agency review timeframes.

Task Description	Complete Task
Laser Scanning	3 weeks
Data Evaluation	2 weeks
Structural Assessment Report	4 weeks

Amec Foster Wheeler anticipates completion within 60 calendar days after issuance of the Notice to Proceed.

COMPENSATION

The time and material charges (noted as Estimate) will be billed monthly in accordance with Amec Foster Wheeler General Engineering Services Agreement with the City, dated October 6, 2017. **The total estimated fee for this project is \$34,291.12.** The proposed fee includes the labor and expenses which can reasonable be anticipated to complete the scope of services as proposed.

Once work is underway, should the City request additional services not included in the scope of this proposal, we will follow formal change procedures. If additional services are required, the City will issue a letter describing the requested services. Amec Foster Wheeler will prepare a fee proposal in response to the City's request. We will not proceed with any additional services without receiving a written Change Order or Contract Amendment.

We will invoice The City of Key West on a monthly basis. Our invoices will reflect the value of the services delivered in the previous month.

Closing



We appreciate this opportunity to offer our professional services on this project. We look forward to working with you, and are committed to providing the services you require for successful completion of this important project within the time frame required. If you have any questions or comments regarding this proposal, please let us know. Please feel free to contact us at (305) 826-5588.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc

Greg Corning, PE
 Senior Engineer

Augusto Poitevin, PE
 Associate Structural Engineer

Distribution: Addressee (Email)
 File (1)

amec foster wheeler				Client	City of Key West		
				Date:	3/8/2018		
Task 1	Assessment	UNIT	UNIT PRICE	QUANTITY	10% Mark up	TOTAL	Total by Task
	Project Manager	Hour	\$198.36	8		\$1,586.88	
	Senior Engineer Structural	Hour	\$139.08	80		\$11,126.40	
	Senior Architect	Hour	\$139.08	48		\$6,675.84	
	Drafting	Hour	\$99.18	24		\$2,380.32	
	Admin II	Hour	\$67.26	8		\$538.08	
	Laser Scanning	Lump Sum				\$10,000.00	
	Estimating	Hour	\$99.18	20		\$1,983.60	
TOTAL DESIGN SERVICES:							\$34,291.12