

October 20, 2020

Terrence N. Bailey, PE
Director of Public Works
City of Riviera Beach
1481 W. 15th Street
Riviera Beach, FL, 33404

**SUBJECT: Proposal for Professional Services
Grand Bahama Ln Redesign**

Dear Mr. Bailey:

Erdman Anthony is pleased to submit this proposal for Professional Engineering Services to The City of Riviera Beach (Client) in connection with the subject project.

Understanding

Based on our understanding this revision to our current plans for the Singer Island project is to design and prepare plans for two structures over the waterways on Grand Bahama Lane. The redesign is to reduce the overall width of the structure by removing the planters on both sides of the bridge from the current design.

Scope of Work and Deliverables

1. Geotechnical exploration
Previously complete

2. Bridge design

Design the bulkheads and spans, prepare plans and details for permitting and bidding. This task will be provided by our SBE sub-consultant Alan Gerwig & Associates. Redesign the bridge superstructure and substructures to accommodate the maintenance of one lane of traffic such that removal of the excess bridge deck that is required for maintenance of traffic during the construction phases of the project can be removed. The bridge design will be in accordance with the following current AASHTO LRFD and FDOT design specifications.

- AASHTO LRFD Bridge Design Specifications, 2017.
- FDOT Structures Design Guidelines, 2018.
- FDOT Design Standards, 2017/2018.
- FDOT Standard Specifications for Road and Bridge Construction 2018.

End bents at the four corners of the structures will connect to existing seawalls. No earthwork is anticipated in the channel proper. The traffic railings will end at the ends of the bridge deck. The continuation and termination of the traffic railings will be detailed in the roadway plans.

Maintenance of traffic considerations will be accommodated by the design. The bridges will be constructed in phases providing for partial removal of the existing structures leaving it open to one lane of traffic while the replacement structure is constructed in two phases. The first phase will include enough superstructure to accommodate one lane of traffic. When the first phase is completed traffic will be shifted to the new structure and the remaining portion of the new structure will be completed. This MOT phasing will require that traffic be reduced to one lane during construction. A temporary traffic signal will be necessary to control the one-way traffic. The design of superstructure will be such that any additional bridge deck that is constructed to carry roadway traffic during intermediate construction phases can be removed. The substructure that is required to support the excess bridge deck will remain in place and not be removable.

3. Maintenance of Traffic concept
Previously complete

4. Utility plans

The utility plans that are being prepared by Erdman Anthony as part of our original work order will be revised for the location which will be to hang the utilities from under the bridges. Erdman Anthony will coordinate with the City and structural engineer regarding the specific location and detailed route of the proposed water and force mains.

5. Roadway approach plans

The roadway plans will be revised to align with the revised typical section. Erdman Anthony will prepare a separate set of plans that details the paving, grading, drainage, and utilities for the bridge and bridge approach areas.

Assumptions

- All plans will be prepared on 24"x36" sheets.
- Revised bridge typical section will be submitted for approval.
- Plan review submittals will be made at 90% and 100%.
- No existing structural components will be utilized or remain in service because of this project.
- Utilities will span between end bents without being supported from the bridge deck.
- MOT plans plans will be prepared by the contractor.
- Four copies of the phase and final drawings will be submitted for review and comment.
- Following the review and approval of the 100% submittal, final plans will be submitted in hard copy and electronically in pdf format. Four hard copies of the final plans will be provided, including one set signed and sealed.
- Erdman Anthony may rely upon the accuracy and completeness of any information, requirements, reports, data, surveys, and instructions provided by Client unless the Proposal expressly states otherwise.
- Erdman Anthony shall use that degree of usual and customary professional skill and care ordinarily exercised by members of its profession under similar circumstances practicing in the same or similar locality at a similar time.
- Erdman Anthony will be promptly paid for services performed.

Our work product is our plans as printed, signed and sealed. Erdman Anthony agrees to release two dimensional CADD files to the Owner or other team members for their convenience and use. CADD files are not intended to replace the printed form of such documents. Erdman Anthony will be responsible for obtaining a standard release from the recipient of any CADD files. Our CADD files are working drawings and may contain information not shown on the final or permitted prints. Therefore, the recipient shall be solely responsible for comparing the CADD file with the printed documents designated by Erdman Anthony as final deliverables and determining the accuracy of such files. Should the recipient desire a "sanitized" version of the CADD file, that service can be provided to them at a nominal fee. Delivery of the electronic files is not a sale, and Erdman Anthony is not liable for any loss of profit or any consequential damages as a result of use or reuse of these files.

The Client understands that the design effort is a unique, one-of-a-kind, first time effort and not a product that has been repeatedly manufactured and refined in advance of construction and agrees that a contingency will be budgeted for changes and corrections during construction due to inconsistencies in the construction documents.

Compensation

Erdman Anthony proposes to complete the above described scope of services for the fees shown in the table below. The tasks shown will be billed based on a fixed fee basis.

Task	Description	Fee
1	Geotechnical exploration	\$0
2	Bridge design	\$60,000
3	Maintenance of Traffic concept	\$0
4	Utility plans	\$7,000
5	Roadway approach plans	\$7,000
6	Expenses	<u>\$1,000</u>
	TOTAL	\$75,000

Services shall be charged by task on either an hourly rate basis in accordance with the hourly rate schedule in our contract, or for a fixed price. Hourly services may show an estimated amount; this is not a maximum fee, it is an estimate for budgeting purposes that is based on our best estimate of the effort required. Work dependent on others such as review by permit agencies, responding to their comments, reviewing construction contractor work, etc. involves a number of factors that are outside our control; therefore, these services will be billed at our hourly rates and the amounts shown are estimates only and additional charges will apply if those budgets are exceeded. We will keep you advised about the status of the budgeted amounts on each monthly invoice and alert you to any items approaching the budget limit.

Terrence Bailey
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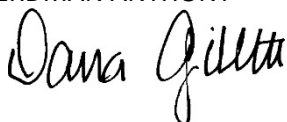
Schedule

Erdman Anthony will begin work on the project after receipt of a fully executed agreement. At that time, we will prepare a schedule and provide it to you for your review and concurrence. This proposal anticipates that all design services will be complete by December 31, 2017; should the contract services extend past that date, the lump sum amounts shown may be adjusted for an escalation in rates.

Proposal Acceptance

This is a supplemental to our purchase order dated July 8, 2015 and subject to the conditions of our agreement dated May 6, 2015. Receipt of an original signed copy of this letter or a purchase order shall constitute Erdman Anthony's Authorization to Proceed with the work. We appreciate your time and consideration in reviewing our proposal. If you have any questions or require additional information, please contact me at 561-308-04546. We look forward to working with you and continuing our successful relationship.

Sincerely,
ERDMAN ANTHONY



Dana I. Gillette, PE, PSM, LEED AP
Principal Associate

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