

January 3, 2019
2010211E

Mr. Jonathan Claudio
City of Huntington Beach
2000 Main Street, P.O. Box 190
Huntington Beach, CA 92648

Subject: Bridge Rehabilitation - Humboldt Drive Bridge
Construction Engineering and Environmental Monitoring Services and
Additional Regulatory Permitting Assistance (Optional)
Request for Contract Change Order No. 16

Dear Jonathan:

As requested, Biggs Cardosa Associates, Inc. is hereby providing a proposal for construction engineering and environmental monitoring services for the Humboldt Drive Bridge Rehabilitation Project. We understand the City's goal is to construct the Humboldt Dr. Bridge during FY 20/21. Also, there may be a need for additional regulatory permitting assistance before the start of construction. Additional regulatory permitting assistance would be needed if a permit term is expiring and additional services would be required to coordinate with the regulatory agencies to renew the expiring permits issued for the project.

Construction Engineering Services

The following items of scope have resulted in an increased scope of services:

Phase 5 – Construction Engineering Services

Task 5.0 – Project Management During Construction

We will provide management, administration, billing, coordination, etc. required to complete base construction services.

Task 5.1 – Pre-construction Conference

We will participate in a pre-construction conference.

Task 5.2 – Construction Observations and Site Meetings

We will monitor the construction schedule and perform periodic site visits during construction and report on the progress and quality of the work and compliance with the final plans and specification. Also when requested by the City, we will participate in site meetings to discuss field issues and clarify the project drawings in person. Up to 128 hours of construction observations and site meetings are assumed.

Task 5.3 – Response to RFIs

We will respond to Contractor's Requests for Information (RFIs) to clarify our drawings and/or intent. We will also issue any required Contract Change Orders (CCOs). Generally, CCOs are required due to differing site conditions or because of Contractor's deviations from the plans during construction and mitigation measures are needed. However, if the CCO is required due to errors or omissions on our plans, it is our policy to produce the required CCO at no cost to our Client.

Task 5.4 – Review Contractor's Submittals

We will review concrete mixes, shop drawings and all Contractor submittals required by the specifications.

Task 5.5 – Produce Record Set of Drawings

At the end of construction, we will generate a Record Set of Drawings incorporating changes to our plans that occurred during construction. We will use information from any Contractor-generated or inspector-generated set of red-marked drawings and information we have collected from RFIs during construction.

The Record Set of Drawings shall include color photographs (in hard copy and jpg format) that clearly show all components of the as-built project, and that are accompanied by a site plan that notes the location of each photographic viewpoint and the date and time of each photograph. At a minimum, the photographs shall be from representative viewpoints along the Huntington Beach Channel located directly upcoast, downcoast, and seaward of the project site, and show the entirety of the restored revetment and areas where vegetation was removed and subsequently replaced. The Record Set of Drawings shall be submitted with certification by a licensed civil engineer.

Phase 6 – Environmental Monitoring Services

Task 6.0 – Project Management During Monitoring

We will provide management, administration, billing, coordination, etc. required to complete Environmental Monitoring.

Task 6.1 – Pre-construction Plant and Wildlife Surveys

GPA will conduct pre-construction wildlife surveys no more than 48 hours prior to construction to determine the presence/absence of wildlife species, including special-status species, within 100 feet of the construction area. GPA will also survey for rare plant species within 50 feet of the construction area. Surveys will be repeated if construction activities are suspended for five days or more. If any special status or otherwise protected species are identified, appropriate measures will be developed and implemented to avoid impacts on these species, in consultation with the City and regulatory agencies as applicable.

Task 6.2 – Pre-construction Nesting Bird Surveys and Nest Monitoring

Based on the NES and MND completed for the project, GPA understands that the City intends to schedule construction activities including vegetation removal, outside of the nesting bird/raptor season (February 1 to September 15), if feasible. However, in the event that construction, including vegetation removal, must be conducted during nesting season, GPA will perform nesting bird surveys no more than 48 hours prior to construction to determine if nesting birds or active nests are within vegetation slated for removal, on the bridge, beneath the bridge, or within 300 feet of the construction area. Surveys will be repeated if construction activities are suspended for five days or more.

If nesting birds are found within 300 feet of the construction/vegetation removal area, GPA will assist the City with installation of appropriate buffers (typically 300 feet for songbirds and 500 feet for raptors), in coordination with the appropriate resource agencies, to ensure that nesting birds and/or their nests are not harmed. If any occupied nests of special-status species are identified, GPA will monitor the nests weekly (expected to be up to 12 visits over eight weeks), and construction activities within 300 feet of the nest (500 feet for raptors) to ensure that construction noise levels do not exceed 85 dB peak until the nest is vacated, juveniles have fledged, and there is no evidence of a second attempt at nesting.

If any special-status or otherwise protected species is found in or adjacent to the construction area, GPA will coordinate with BCA, the City, and resource agencies, if warranted, to develop and implement appropriate avoidance measures. GPA will summarize the results of the surveys and any subsequent coordination in a memo format report for the project file.

Task 6.3 – Construction and Permit Compliance Monitoring

GPA will assist the City with ensuring that construction-related impact avoidance, minimization, and mitigation measures are monitored and successfully implemented. Prior to construction, GPA will compile CEQA, NEPA, and regulatory permit requirements and prepare a construction monitoring checklist that

will be used to document compliance through the construction period and, if necessary, provide documentation to regulatory agencies. The checklist will be included in monthly construction monitoring reports. GPA will monitor specific activities as required by project permits, including oversight of designation and flagging of environmentally sensitive areas, implementation of Best Management Practices (BMP), and invasive species removal, if required. GPA will measure turbidity, dissolved oxygen, temperature, and pH levels downstream of the Humboldt Drive Bridge construction area per the requirements of the 401 Water Quality Certification. Water samples will be taken daily during the time that the coffer dam is in place, expected to be approximately one to three weeks.

Results will be provided daily to the City, and will be included in the monthly construction monitoring reports. GPA will record the results of each monitoring visit and will summarize the results in a monthly construction monitoring report for the project file. GPA will coordinate with the City as needed to correct any conditions that are out of compliance during monitoring visits. GPA will be on call to conduct additional monitoring visits if any situations arise in which additional coordination is needed, such as discovery of unanticipated resources, or other situations that could potentially result in adverse effects on protected species or in permit non-compliance.

Task 6.4 – Agency Submittals and Notifications

GPA will coordinate with BCA and the City to complete any required pre-construction submittals and notification to regulatory agencies as part of environmental approvals for the project, including the USACE, Regional Water Quality Control Board, CCC, and Caltrans (GPA estimates up to 15 submittals may be required). Pre-construction notifications may include those required by regulatory permits prior to initiating construction, and submittals may include items such as final design plans. GPA will coordinate with the City to gather and/or prepare the necessary documentation and will submit the information to the agencies, as required.

During the construction phase, GPA will provide required notifications and/or reports to comply with permits. These notifications may be needed if any unanticipated issues arise in the field, or if certain project activities require additional coordination with regulatory agencies.

GPA will coordinate with BCA and the City to complete any required post-construction submittals and notifications to regulatory agencies as part of environmental approvals for the project. Notifications may include those required by regulatory permits to document and summarize the results of project construction and post-construction conditions, including the USACE Post-project Implementation Memorandum. GPA will coordinate with BCA and the City to gather and/or prepare the necessary documentation and will submit the information to the agencies, as required

GPA will keep a detailed written record of monitoring activities for the duration of the project, including written monitoring report forms and a copy of all correspondence regarding environmental compliance. Following construction, GPA will provide copies of this information to the appropriate agencies, and will provide the necessary documentation to the resource agencies needed to comply with environmental permits.

Task 6.5 – Environmental Commitment Record Maintenance and Updates

GPA will prepare, update, and maintain the environmental commitments record (ECR) and will document completion of all environmental commitments throughout the pre-construction and construction monitoring phases (GPA estimates monthly updates will be required). GPA will update and maintain both electronic and hard copies of the ECR and all documentation associated with environmental compliance and will coordinate with the City regarding monthly updates to the ECR and delivery of the final ECR to Caltrans.

Construction Engineering and Environmental Monitoring Services (Construction Phase)

Please see the attached fee spreadsheet of the proposed services during the construction of the Humboldt Drive Bridge, for further information on the fee breakdown.

The additional services requested amount to the following:

GPA Consulting	\$49,522
W.G. Zimmerman	\$31,121
<u>Biggs Cardosa</u>	<u>\$129,962</u>
	\$210,605

This requested fee is proposed to be broken up as follows:

Requested Fee**Humboldt Drive Bridge**

Phase 5 – Base Construction Services \$151,715

Phase 6 – Environmental Monitoring Services \$58,890

Requested Fee Total **\$210,605**

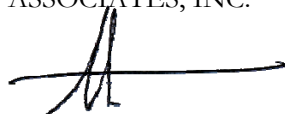
If needed, a 10% contingency for Miscellaneous Engineering and Environmental Services (Construction Phase) is also requested.

10% Contingency **\$21,060**

We look forward to continuing to work with you on this project. Should you have any questions or require any additional information, please do not hesitate to contact me at the telephone number, fax number or address on the front page of this letter, or by email at mthomas@biggscardosa.com.

Sincerely,

BIGGS CARDOSA
ASSOCIATES, INC.



Michael A. Thomas, SE
Principal, Project Manager

Accepted,

CITY OF
HUNTINGTON BEACH

Name: _____

Title: _____

Additional Regulatory Permitting Assistance (Optional)

GPA Consulting (GPA) will monitor the expiration timelines of the regulatory permits for the project. If a permit term is expiring, GPA will notify Biggs Cardosa (BCA) and the City of Huntington Beach (City) and will coordinate with the regulatory agencies to renew the expiring permits issued for the project. The additional scope of work would impact the following tasks:

Phase 2 (Optional) – Environmental Services (Optional Services)**Task 2.5 (Optional) – Environmental Permitting**

The project would involve temporary and permanent activities within the Short Channel in Huntington Harbor, which is considered a navigable water of the U.S. and is within the coastal zone. Implementation of the project would include temporary activities that would be needed to construct the project. **As a result, the following permits and agreements were obtained and need to be renewed if endanger of expiring before the construction period:**

- ACOE Section 404 Construction Authorization (Nationwide Permit) and Rivers and Harbors Act Section 10
- Regional Water Quality Control Board (RWQCB) Section 401 Water Quality Certification
- California Department of Fish and Game Section 1602 Streambed Alteration Agreement
- U.S. Coast Guard Rivers and Harbors Act Section 9 Bridge Permit
- California Coastal Commission Coastal Development Permit/Local Coastal Permit

GPA will compile the necessary information and will prepare the application/notification packages for submittal **when and if permit term is expiring**. GPA will then submit the application package to BCA and will coordinate with BCA, the City, Caltrans, and resource agencies (if requested) as needed to resolve issues and obtain necessary approvals.

Environmental Services (Optional Services Design Phase)

Please see the attached fee spreadsheet of the proposed **Additional Regulatory Permitting Assistance** for the Humboldt Drive Bridge, for further information on the fee breakdown.

The optional services may amount to the following:

GPA Consulting	\$8,274
<u>Biggs Cardosa Associates</u>	<u>\$1,057</u>
	\$9,331

This requested fee is proposed to be added as follows:

	<u>Requested Added Fee</u>
<u>Humboldt Drive Bridge</u>	
<u>Phase 2 – Environmental Services</u>	<u>\$9,331</u>
Requested Fee Total	\$9,331



If needed, a 10% contingency for Environmental Services (Optional Services Design Phase) is also requested.

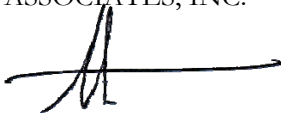
10% Contingency

\$933

We look forward to continuing to work with you on this project. Should you have any questions or require any additional information, please do not hesitate to contact me at the telephone number, fax number or address on the front page of this letter, or by email at mthomas@biggscardosa.com.

Sincerely,

BIGGS CARDOSA
ASSOCIATES, INC.



Michael A. Thomas, SE
Principal, Project Manager

Accepted,

CITY OF
HUNTINGTON BEACH

Name: _____

Title: _____

PHASE 5: CONSTRUCTION ENGINEERING SERVICES

Biggs Cardosa Associates, Inc.

W. G. Zimmerman

GPA Consulting

Task	M. Thomas Principal	R. Sarguineili Engineering Manager	E. Pfeiler Senior Engineer	D. Punia Staff Engineer	R. Martinez Staff Engineer	D. Mancini Sr. Computer Drafter	Zimmerman Project Manager	C. Cordero Project Engineer	M. Brust Associated Engineer	R. Galvin Principal Env. Planner	M. Schrader Senior Assoc. Planner	E. Silva Senior Env. Planner	S. Glowacki Senior Biologist	J. Vu Associate Biologist	J. Morrison Associate Biologist	A. Shippey Biologist	K. Warner Associate Biologist	Total Hours
Construction Services																		
5.0 Project Management During Construction	20	80					8		6									108
5.1 Pre-Construction Conference		12						6										24
5.2 Construction Observations and Meetings		12	80					16	20									128
5.3 Response to RFIs		40	80	80			4	20	60									284
5.4 Review Contractor's Submittals		40	80	100	160			32	60									472
5.5 Produce Record Set of Drawings		16			24	24			14									78
		20	200	180		184	12	74	160	0	0	0	0	0	0	0	0	1,094
Subtotal Hours																		
Hourly Rate	\$290.69	\$176.11	\$151.33	\$107.74	\$108.60	\$119.26	\$236.61	\$173.51	\$94.64	\$207.36	\$152.96	\$131.12	\$129.76	\$92.18	\$73.85	\$91.74	\$92.74	
Subtotal Budget	\$5,814	\$35,222	\$36,320	\$19,392	\$19,981	\$2,862	\$2,839	\$12,840	\$15,143	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,415
Reimbursable Costs																		
Preproduction, Shipping and Mileage	\$1,000						\$300											\$1,300
TOTAL CONSTRUCTION ENGINEERING SERVICES																		
																		\$151,715

PHASE 6: ENVIRONMENTAL MONITORING SERVICES

Task	M. Thomas Principal	R. Sanguinetti Engineering Manager	E. Pfeifer Senior Engineer	D. Punta Staff Engineer	R. Martinez Staff Engineer	D. Mancini Sr. Computer Drafter	Zimmerman Project Manager	C. Cordero Project Engineer	M. Brust Associated Engineer	R. Galvin Principal Env. Planner	M. Schrader Senior Assoc. Planner	E. Silva Senior Env. Planner	S. Glowacki Senior Biologist	J. Vu Associate Biologist	J. Morrison Associate Biologist	A. Shippey Biologist	K. Warner Associate Biologist	Total Hours
Environmental Services																		
6.0 Project Management During Monitoring	8	40								8			24					80
6.1 Pre-Construction Plant and Wildlife Surveys											4			12			8	24
6.2 Pre-Construction Nesting Bird Surveys and Monitoring											4		16	32				52
6.3 Construction and Permit Compliance Monitoring											8		60	120				188
6.4 Agency Submittals and Notifications											8		32	12				52
6.5 Environmental Commitments Record and Updates												4	36	40				80
	8	40	0	0	0	0	0	0	0	8	28		168	216			8	476
Subtotal Hours																		
Hourly Rate	\$290.69	\$176.11	\$151.33	\$107.74	\$108.60	\$119.26	\$236.61	\$173.51	\$94.64	\$207.36	\$152.96	\$131.12	\$129.76	\$92.18	\$73.85	\$91.74	\$92.74	
Subtotal Budget	\$2,326	\$7,044	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,659	\$4,283	\$0	\$21,799	\$19,910	\$0	\$0	\$0	\$57,762
Reimbursable Costs																		
Preproduction, Shipping, Mileage and SCUBA Gear																		\$1,128
TOTAL ENVIRONMENTAL MONITORING SERVICES																		\$58,890

	M. Thomas Principal	R. Sarguineili Engineering Manager	E. Pfeifer Senior Engineer	D. Punta Staff Engineer	R. Martinez Staff Engineer	D. Mancini Sr. Computer Drafter	Zimmerman Project Manager	C. Cordero Project Engineer	M. Brust Associated Engineer	R. Galvin Principal Env. Planner	M. Schrader Senior Assoc. Planner	E. Silva Senior Env. Planner	S. Glowacki Senior Biologist	J. Vu Associate Biologist	J. Morrison Associate Biologist	A. Shippey Biologist	K. Warner Associate Biologist	Total Hours
Total Services																		
Total Hours	28	240	240	180	184	24	12	74	160	8	28		168	216			8	1,570
Hourly Rate	\$290.69	\$176.11	\$151.33	\$107.74	\$108.60	\$119.26	\$236.61	\$173.51	\$94.64	\$207.36	\$152.96	\$131.12	\$129.76	\$92.18	\$73.85	\$91.74	\$92.74	
Subtotal Budget	\$8,139	\$42,267	\$36,320	\$19,392	\$19,981	\$2,862	\$2,839	\$12,840	\$15,143	\$1,659	\$4,283	\$0	\$21,799	\$19,910	\$0	\$0	\$742	\$208,177
Reimbursable Costs																		
Preproduction, Shipping, Mileage and SCUBA Gear	\$1,000						\$300			\$1,128								\$2,428
TOTAL SERVICES																		\$210,605

Notes: The rates provided above are fully burdened, including labor burden, overhead and profit.
The billing will be done based on the actual rates for the individuals who work on the project, at the time they perform their work, and not the average rates shown.

