

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

161A



FROM: TLMA – Transportation

SUBMITTAL DATE:
March 20, 2014

SUBJECT: Amendment Number 1 to the Engineering and Environmental Service Agreement between the County of Riverside and Dokken Engineering to Complete the Development of the Environmental, Design, Right-of-Way Acquisition, Bid, and Construction Support Phases of the Interstate 15/Limonite Avenue Interchange Improvement Project. All Covenants Set Forth in the Agreement Shall be Completed by December 31, 2019. 2nd/2nd District. [\$303,295]; Local Funds 100%

RECOMMENDED MOTION: That the Board of Supervisors:

1. Ratify Amendment No. 1 to the Engineering and Environmental Services Agreement with Dokken Engineering for the Interstate 15/Limonite Avenue Interchange Project; and
2. Authorize the Chairman of the Board of Supervisors to execute the same.

BACKGROUND:

Summary

The Interstate 15 (I-15)/Limonite Avenue Interchange Improvement Project, in the cities of Eastvale and Jurupa Valley, consists of improving the existing interchange to provide a six lane bridge and modified on and off ramps to improve the level of service for existing and future traffic conditions. On April 17, 2007, the Board of Supervisors approved an agreement with Dokken Engineering to prepare the environmental document, plans, specifications, estimates, and to provide project bidding and construction support.

Patricia Romo

Assistant Director of Transportation

Patricia Romo

Director of Transportation and Land Management

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (Per Exec. Office)
COST	\$ 45,600	\$ 106,400	\$ 303,295	\$ 0	Consent <input type="checkbox"/> Policy <input checked="" type="checkbox"/>
NET COUNTY COST	\$ 46,600	\$ 106,400	\$ 303,295	\$ 0	

SOURCE OF FUNDS: Mira Loma Road and Bridge Benefit District – 100% Local Funds. There are no General Funds used in this project.

Budget Adjustment: No
For Fiscal Year: 2013/2014

C.E.O. RECOMMENDATION:

APPROVE

BY:

Tina Grande
Tina Grande

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Benoit, seconded by Supervisor Tavaglione and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Tavaglione, Stone, Benoit and Ashley
Nays: None
Absent: None
Date: April 22, 2014
xc: Transp.

Kecia Harper-Ihem
Clerk of the Board

By *Kecia Harper-Ihem*
Deputy

Prev. Agn. Ref.: 4/17/2007, Item 3-35

District: 2/2

Agenda Number:

3-69

FORM APPROVED COUNTY COUNSEL
BY: *HP* DATE: 4/3/14
BY: *HP* DATE: 4/3/14

Departmental Concurrence

- A-30
- Positions Added
- Change Order
- 4/5 Vote

SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA
FORM 11: Amendment Number 1 to the Engineering and Environmental Service Agreement between the County of Riverside and Dokken Engineering to Complete the Development of the Environmental, Design, Right-of-Way Acquisition, Bid, and Construction Support Phases of the Interstate 15/Limonite Avenue Interchange Improvement Project. All Covenants Set Forth in the Agreement Shall be Completed by December 31, 2019. 2nd/2nd District. [\$303,295]; Local Funds 100%

DATE: March 20, 2014

PAGE: 2 of 2

BACKGROUND:

Summary (continued)

The California Department of Transportation (Caltrans) Project Initiation Document was recently completed and approved by Caltrans, and the environmental studies and preliminary engineering tasks are underway. Many state and federal requirements, standards, and guidelines have changed, requiring that the scope of work be modified to address these tasks. Updates to previously prepared documents need to be made to meet current Caltrans standards, air quality regulations, traffic projections, and to address unanticipated biological requirements, as detailed in the attached Amendment Request #1 for Additional Services. The total cost for the additional services is \$303,295, including \$27,572 in contingencies.

Included in the total amendment cost is credit for contract work items that have been reduced in scope due to no longer being necessary. The contract amendment includes the preparation of landscape design plans and related services as an option should the cities choose to add landscaping as part of the interchange construction contract. These optional tasks will not be initiated unless directed by the County; this optional work represents \$188,871 of the amendment.

This amendment includes an extension of time to December 31, 2019, as the current contract expired on March 25, 2014. The environmental document is expected to be approved in mid-2015, and construction is expected to begin in 2017, pending additional funding for construction.

Work Order No.: A3-0393

Impact on Residents and Businesses

The project will improve interchange operations and reduce delays to local and regional traffic. Local businesses and residents will benefit from time savings and reduced congestion.

SUPPLEMENTAL:

Additional Fiscal Information

The engineering and environmental phase of this project will be funded using Mira Loma Road and Bridge Benefit District funds.

Original Contract Amount:	\$2,791,368
Amendment 1:	<u>\$ 303,295</u>
Revised Contract Amount:	\$3,094,663

AMENDMENT 1

AMENDMENT TO AGREEMENT BETWEEN

THE COUNTY OF RIVERSIDE AND DOKKEN ENGINEERING

FOR ENGINEERING SERVICES ON THE I-15/LIMONITE AVENUE INTERCHANGE PROJECT

THIS AMENDMENT (hereinafter the "Amendment") to an agreement is made and entered into as of this 22nd day of April, 2014, by and between the County of Riverside, a political subdivision of the State of California (hereinafter the "COUNTY"), and DOKKEN ENGINEERING (hereinafter "ENGINEER").

RECITALS

- A. COUNTY and ENGINEER have entered in an agreement entitled "Engineering Services Agreement for Limonite Avenue Interchange at Interstate 15 between County of Riverside • Transportation Department and Dokken Engineering" that is dated April 17, 2007 (hereinafter the "Agreement"). The Agreement provides the terms and conditions, scope of work, schedule and budget for the performance of professional and technical services necessary to prepare an environmental document, project report, plans, specifications & estimates, bid and construction support.
B. The parties desire to amend the current Agreement to extend the expiration date, modify the scope of services to be provided by the ENGINEER and increase the contract budget.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree and ratify the terms and conditions as follows:

- 1. Article VI COMPENSATION, subparagraph B of the Agreement is modified to reflect that the not to exceed amount of the contract of \$2,427,276 (\$2,791,368 including contingencies) shall be increased by \$275,723 (\$303,295 including contingencies) to \$2,702,999 (\$3,094,663 including contingencies) as provided below:
• Increase the Phase I budget by the amount of \$109,226, the Phase II budget by \$171,228, the Phase III budget by \$5,198, and the Phase IV budget by \$17,643 for engineering services necessary to incorporate additional environmental tasks, design services, and construction support activities. The Phase II, III, and IV budget augmentation includes optional work associated with Tasks 18.5, 22.1 and 23.7. These optional tasks may be needed to develop landscape/streetscape plans and to provide the associated bid/construction support. ENGINEER shall proceed with these tasks only upon receipt of written notice from COUNTY. Detailed descriptions of the extra work and the budget adjustments are provided in

1 Attachment "A" of this Amendment, consisting of twenty six (26) pages, attached hereto and incorporated
2 by this reference.

3 2. Article VI COMPENSATION, subparagraph B of the Agreement is further modified to reflect the following
4 additional amounts of compensation for ENGINEER and the Contingency budget:

5	• Prime – Dokken Engineering	\$109,416
6	• Sub – Aguirre & Associates	(\$72,286)
7	• Sub – ICF International (previously Jones & Stokes)	\$132,779
8	• Sub – Geocon Consultants, Inc.	\$6,929
9	• Sub – David Evans and Associates	\$98,885
10	• Contingency	\$27,572

11
12 3. Appendix A is modified to include the additional scope of work as reflected in Attachment "A" to this
13 amendment.

14 4. Appendix B introductory paragraph is modified to reflect that the Agreement term shall be extended to
15 December 31, 2019 for Phases I, II, III, and IV. All covenants set forth in the amended Agreement shall be
16 completed by the said date unless extended by an amendment or supplemental agreement.

17 5. Appendix C is modified to include the additional amounts as set forth in the summary table of the requested
18 and the recommended budget adjustments as provided in Attachment "A" to this Amendment. In addition,
19 Appendix C, section B is modified to reflect an additional Total Fixed Fee payable to the Engineer of \$28,422
20 (PRIME CONSULTANT Profit).

21 6. Except to the extent specifically modified or amended hereunder, all of the terms, covenants and conditions of
22 the Agreement as approved on April 17, 2007 shall remain in full force and effect between the parties hereto.

23
24 IN WITNESS HEREOF, the parties hereto have caused this Amendment to the Agreement to be duly executed
25 this day and year first written above.

ARTICLE VIII • APPROVALS

COUNTY Approvals

RECOMMENDED FOR APPROVAL:

Patricia Romo Dated: 3/24/14

JUAN C. PEREZ
Director of Transportation and Land Management
Patricia Romo
Assistant Director of Transportation

APPROVED AS TO FORM:

PAMELA J. WALLS, COUNTY COUNSEL

Nausha K. Wilson Dated: 4/7/14
By Deputy

APPROVAL BY THE BOARD OF SUPERVISORS

Jeff Stone Dated: APR 22 2014
JEFF STONE
PRINTED NAME

Chairman, Riverside County Board of Supervisors

ATTEST:

Kecia Harper-Ihem Dated: APR 22 2014
KECIA HARPER-IHEM

Clerk of the Board

ENGINEER Approvals

ENGINEER:

Richard A. Dokken Dated: 17 March

Richard A. Dokken
PRINTED NAME

CEO
TITLE

ENGINEER:

Cathy Chan Dated: 3/17/14

Cathy Chan
PRINTED NAME

Secretary
TITLE



January 24, 2014

Mr. John Marcinek
County of Riverside Transportation Department
3525 14th Street
Riverside, CA 92501

**RE: Amendment Request #1 for Additional Services
I-15/Limonite Avenue Interchange Project**

Dear Mr. Marcinek:

The purpose of this letter is to request an amendment to the April 2007 contract between Dokken Engineering and Riverside County for the Limonite Avenue Interchange at Interstate 15 Project. This amendment is requested as a result of additional unanticipated effort required for various scoped tasks and the addition of out-of-scope items to the project.

The original scope/estimate for this project was prepared approximately 6 years ago and since that time, many standards and guidelines have changed and the project itself has been refined. The impact of these changes to the level of effort of specific tasks is described in detail below:

TASK 2.0 TRAFFIC STUDIES (WBS 160.10)

Task 2.4 – Traffic Volume Validation Report \$7,100

The Traffic Operations report was completed and approved in October 2011 based on an Opening Year of 2015 and a Design Horizon Year of 2035. Since that time, the project schedule has been extended to reflect a more lengthy Caltrans project review process. As a result, the Opening Year is now estimated to be 2018 and the Design Horizon Year is projected to be 2040. Caltrans is requiring that a supplemental to the Traffic Operations Report be prepared to validate the traffic volumes for the new milestone years. The effort to perform the analysis and prepare this supplement was not included in the original scope of work.

TASK 3.0 PROJECT MAPPING (WBS 160.20)

Task 3.2 – Design Surveys -\$39,033

Due to the schedule delay on the project, the originally contracted surveyor (Aguirre & Associates) was unable to perform the design surveys based on the updated project timeline. To meet the project schedule, the County elected to take over the design survey tasks, resulting in a credit back to the County for this scope item.

Task 3.3 – Survey Cross Sections -\$27,906

Due to the schedule delay on the project, the originally contracted surveyor (Aguirre & Associates) was unable to prepare the survey cross sections based on the updated project timeline. To meet the project schedule, the County elected to take over the survey cross section tasks, resulting in a credit back to the County for this scope item.

Task 3.4.2 – Right of Way Acquisition Plats/Descriptions -\$5,346

Due to the schedule delay on the project, the originally contracted surveyor (Aguirre & Associates) was unable to prepare the plats and legal descriptions based on the updated project timeline. To meet the

project schedule, the County elected to take over the right of way plats and legal descriptions, resulting in a credit back to the County for this scope item.

TASK 4.0 PRELIMINARY DESIGN (WBS 160.10)

Task 4.10 – Project Study Report

\$19,315

When the original project contract was executed, a Project Study Report (Project Development Support) (PSR [PDS]) had been prepared for the I-15/Limonite Avenue Interchange by Aztec Engineering under separate contract with the County. Dokken's subsequent contract with the County for this project provided nominal effort to assist Aztec in updating the PSR (PDS) to reflect the addition of auxiliary lanes and multi-lane off-ramps. The PSR (PDS) prepared by Aztec was ultimately deemed insufficient for Caltrans approval and significant additional effort is required to bring the document up to the standards of that time.

In addition, the original PSR (PDS) was prepared in accordance with the Caltrans standards and guidelines that were in place when the contract was executed. In July 2012, prior to approval of the document, Caltrans updated their standards for PSR (PDS) documents and required that the County submit the document in the updated format. Additional effort is required to reorganize and reformat the document in accordance with the new guidelines and prepare the additional required content.

TASK 11.0 CULTURAL TECHNICAL STUDIES (WBS 165.20)

Task 11.3 – HRER (Negative Findings)

-\$7,573

The original contract scope of work included preparation of a Historic Resources Evaluation Report (HRER). Based on a current review of the project as well as feedback from Caltrans, it has been determined that an HRER will not be required. A credit is being provided for this task.

TASK 12.0 GENERAL ENVIRONMENTAL STUDIES (WBS 165.10)

Task 12.1 – Noise Study

\$23,567

Since the original scope was prepared for the project, a new Noise Protocol was issued by the California Department of Transportation (2011). This new Protocol expands the effort required for noise analyses. These changes include, among other items, the establishing of noise levels for all undeveloped properties, revisions to the evaluation of feasibility of walls, and the requirement to obtain public acceptance for walls that are found to be feasible and reasonable. Additional effort is needed to address these updated requirements.

In addition, the original scope of work for the project included six short-term noise measurements. Based on coordination with Caltrans noise staff, an additional 11 short term noise measurements (for a total of 17 noise measurements) have been identified as being required. The increased effort involved in addressing the additional 11 short term noise measurements includes the following:

- The additional noise measurements and traffic volumes will need to be counted and calibrated in support of TNM modeling of the proposed improvements.
- The additional measured and modeled locations will need to be analyzed in the Existing, Future No-Build and Future Build conditions using TNM.
- Should impacts be identified at any of the additional measured or modeled receivers, mitigation will need to be analyzed to reduce impacts where feasible.
- The additional findings will be incorporated into the Noise Study Report (NSR). This scope of work includes the effort to prepare the formal coordination plan for Caltrans, conduct the

additional field noise work, model the new receptor locations in TNM for the identified project conditions (existing and future), and incorporate the necessary information into the NSR.

Task 12.3 – Air Quality Analysis

\$15,180

Since the original scope was prepared for the project, new regulations and requirements have been adopted related to air quality analyses. The modified/revised/updated components of the air quality analysis that must now be addressed are summarized below.

- ***Evaluation of Operations-Period Mass Emissions:*** The new regulations require ICF to evaluate whether the project meets transportation conformity requirements by determining whether it is included, as currently defined, in the most recent Regional Transportation Plan (RTP) and Federal Transportation Improvement Program (FTIP) prepared by the Southern California Association of Governments (SCAG). Regional criteria pollutant emissions have been quantified using project-level VMT and the Caltrans' CT-EMFAC emissions inventory model. Project-related criteria pollutant emissions have been compared to SCAQMD significance thresholds to determine significance under CEQA.
- ***Localized PM2.5/PM10 Hot Spot Analysis:*** The new regulations require an analysis to determine the degree to which project-related traffic volumes have a potential to affect local PM2.5 and PM10 concentrations. For this item, Caltrans requires preparation of a quantitative analysis to address PM2.5 and PM10.
- ***Mobile Source Air Toxics:*** The new regulations require an evaluation of the proposed project-related mobile source air toxics (MSATs) emissions in accordance with FHWA interim guidance on how MSATs should be addressed in NEPA documents. It is assumed that extensive qualitative analyses would not be required to address MSATs. If an extensive quantitative analysis is required for the project, then a scope and cost estimate would be provided for this additional effort; however, such an analysis is not anticipated.
- ***Climate Change/Greenhouse Gas Emissions:*** The new regulations require a quantification of operational-period greenhouse gas (GHG) emissions associated with implementation of the proposed project. Consistent with current Caltrans policy, construction-period GHG emissions were not quantified. Operations- period GHG emissions were quantified using regional daily peak-period and non-peak-period vehicle miles traveled (VMT) apportioned into 5 mph speed bins for speeds between 5 mph and 75 mph; and the CT-EMFAC emissions model. ICF has presented a comparison of GHG emissions associated with the Build Alternative to the No-build Alternative to characterize effects of the proposed project on GHG emissions. The analysis of climate change also incorporated the most recent guidance found on the Caltrans Standard Environmental Reference (SER) and Caltrans annotated outline.
- ***Air Quality Conformity Analysis Report and Checklist:*** Under NEPA delegation, the federal air quality conformity determination has not been delegated to Caltrans and must be made by FHWA. As such, a separate Air Quality Conformity Analysis will be prepared using the annotated outline for this report on the SER at the time that the report is initiated and will also prepare the Conformity Checklist based on the checklist that is available on the SER at the time that the Air Quality Conformity Analysis Report is prepared.

Task 12.6 Paleo Information Rpt/Paleo Evaluation Rpt **\$25,000**

Since the original scope was prepared for the project, paleontological reports have become a required technical study supporting the environmental document. A combined Paleontological Information Report/Paleontological Evaluation Report (PIR/PER) needs to be prepared that identifies and documents the viability of paleontological resources that exist with the project's study limits. The report will identify and document the anticipated impacts to paleontological resources that exist within the project's limits of disturbance (both vertical and horizontal). The PIR/PER will include:

- Summary of the proposed project
- Delineation of the project limits
- Delineation of the project excavation locations and depths
- Document efforts to avoid or minimize effects on paleontological resources
- Identify significance and/or sensitivity of paleontological resources and/or rock units following the guidance provided at:
<http://www.dot.ca.gov/ser/vol1/sec3/physical/Ch08Paleo/chap08paleo.htm#pir>
- Identification of sources consulted and results of that consultation
- Identification of any consultation related constraints
- Identification of a course of action, including identification of specific geologic formations and paleontological resources
- Identification of the persons preparing the PIR/PER and their qualifications
- Identify whether a Paleontological Mitigation Plan (PMP) is recommended

This additional effort does not include preparation of a PMP. If a PMP is ultimately required, a scope and fee for this effort will be provided to the County at that time.

Task 12.7 Hazardous Materials Testing **\$9,560**

Hazardous materials testing was not included in the original scope of work for the project. At the time the contract was written, it was standard practice to identify any needed testing as part of the environmental process and incorporate the actual testing activities into the construction specifications for the contractor to perform. Caltrans District 8 now requires any identified testing to occur prior to 100% PS&E. As a result, an Asbestos Containing Material (ACM) and Lead Containing Paint (LCP) Survey will need to be conducted at the project site, as identified in the Initial Site Assessment. The ACM survey will focus on bridge components and the LCP survey will focus on traffic striping paint. These surveys include the following tasks:

- Prepare a site-specific Health and Safety Plan for the survey activities.
- Perform an ACM survey on the existing bridge structure and collect and analyze traffic stripe paint samples. This task includes traffic control.
- Collect up to 6 bulk ACM samples.
- Collect up to 6 traffic strip paint samples.
- Laboratory Analyses (Standard 10-day turnaround):
 - 6 asbestos samples for Polarized Light Microscopy (PLM)
 - 3 asbestos samples by PLM 400-point count
 - 6 traffic paint sample for CAM17 Metals
 - 6 traffic paint sample for Soluble (WET, DI-WET, or TCLP) metal

Upon receipt of the laboratory results, a Draft ACM Survey/LCP Investigation report will be prepared for County/Caltrans review. Comments from this review will be addressed and a final report prepared.

TASK 13.0 BIOLOGICAL STUDIES (WBS 165.15)

Task 13.1 – Natural Environment Study (NES) Report \$18,947

The original scope of work states that the Jurisdictional Delineation (JD) would be incorporated into the Natural Environment Study, which was an acceptable practice in 2007. The integrated JD generally consisted of three pages of information for a typical interchange project. Caltrans District 8 requirements associated with JD's have since changed and Caltrans now requires preparation of a stand-alone Jurisdictional Delineation Report that consists of six chapters of information plus appendices. This more robust document requires additional effort to prepare and, because it is a stand-alone document, must go through its own independent review cycle, which requires additional effort to respond to. In addition, it should also be noted that the original estimate of effort assumed that the jurisdictional information from the I-15 widening project could be utilized. However, this information is now outdated and is no longer valid for use on the I-15/Limonite Avenue Interchange Project.

Task 13.2 – Rare Plant Focused Survey for San Diego Ambrosia \$3,836

The original project scope provided for a Special Status Plant Habitat Evaluation to be performed, in which the project site would be evaluated for suitable habitat associated with San Diego Ambrosia (*Ambrosia pumila*), San Miguel Savory (*Satureja chandleri*), Brand's phacelia (*Phacelia stellaris*), and Robinson's peppergrass (*Lepidium virginicum* var. *robinsonii*). This habitat evaluation was performed and it was determined that there was no suitable habitat for San Miguel Savory, Brand's Phacelia, or Robinson's Peppergrass. However, suitable habitat was found to be present in the study area for San Diego Ambrosia. Therefore, a focused survey for this species was required to be performed, a task that was not included in the original contract. The focused survey was conducted in 2010 as approved by the County; however, the project schedule was subsequently delayed, requiring the study to be redone because Caltrans deemed the original survey to be out of date. Neither the first nor the second focused surveys were included in the original scope of work. Following is a description of the work to be performed:

The study area for the focused survey will be the proposed project alignment (limits of disturbance) plus a 100-foot buffer. The surveys will occur within the window of April to October to adequately capture the blooming period for the species. A reference population in the regional vicinity will be visited prior to the focused surveys to ensure the target species were in bloom and identifiable during that time of the year. Identified habitat and/or focused survey areas will be located using handheld GPS units. Results of the habitat evaluation and focused surveys will be provided in a letter-format report and incorporated into the Natural Environment Study (NES) that will be prepared for the proposed project.

It should be noted that depending on annual weather and local conditions, negative results for focused plant surveys will not always be reliable as a basis to conclude that there is no reasonable potential for the target species to occur. ICF will not be responsible if such conditions, beyond reasonable control of ICF, prevent a conclusion that one or more of the species has no reasonable potential to occur.

Task 13.3 – Burrowing Owl Habitat Evaluation/Focused Survey \$564

The original contract scope provided for the project team to conduct a Burrowing Owl habitat evaluation and subsequent focused survey. This evaluation and focused survey were conducted in 2010; however, due to a subsequent project schedule delay, a new burrowing owl survey is required by Caltrans because the survey results are considered to be out of date in relation to the preparation of the environmental document, which began in February 2013. The effort associated with updating the habitat evaluation/burrow survey and report was not included in the original scope of work. No additional surveys for burrowing owl are anticipated to be needed until pre-construction surveys.

Task 13.4 – Fairy Shrimp Habitat Evaluation/Focused Survey \$28,887

Based on the biological reconnaissance performed for the project as part of the NES effort, it was determined that there is potential for fairy shrimp and vernal pools. To comply with the WRMSHCP, fairy shrimp surveys are required. This task was not anticipated nor included in the original scope of work. Following is a description of the work to be performed:

Dry Season: A qualified biologist holding a US Fish & Wildlife Service (USFWS) recovery permit will perform a habitat suitability evaluation of the study area (project limits of disturbance and a 100-foot buffer) complete with photographs and sketches of pool morphology, soil collection and processing, cyst documentation and quantification.

The dry season sampling requires that the pools/depressions be sampled at ten equidistant points starting at the edge of the pool and continuing lengthwise and widthwise, including at least two samples from the deepest depressions. Soil samples of 100 ml aliquots will be collected at each sub-sample site and transferred to individually labeled plastic bags. The hydrated soil samples will then undergo individual processing through a succession of graded soil sieves to eliminate over 95% of soil and particulate matter. The remaining organics will be examined under a dissecting microscope for the presence of fairy shrimp cysts.

Within 90 days following completion of the dry sampling, a letter-format report will be provided to USFWS (as required by the recovery permit) and the client.

Wet Season: Wet season sampling will be conducted in accordance with the U.S. Fish and Wildlife Service (USFWS) Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods (USFWS 1996). The biologist will perform a habitat suitability evaluation of the study area (project limits of disturbance and a 100-foot buffer) complete with photographs and sketches of pool morphology, soil collection and processing, cyst documentation and quantification. Each depression was photographed and the exact location will be recorded using a Magellan hand-held GPS receiver. At each subsequent visit, the air temperature, wind speed and other weather conditions will be recorded along with the maximum surface area, depth, and water temperature of each depression. The depressions will be sampled throughout the entire water column, including edges and bottom, with a standard 500-micron aquatic dip net (Bioquip®). Additionally, a 10-micron aquarium net will be used to sample the water column to ascertain the presence of newly hatched fairy shrimp and other small branchiopods (e.g., cladocerans and conchostracans).

Protocol sampling will commence when the depressions contain greater than 3 cm of standing water 24 hours after a rain event. Depressions will then be sampled every 14 days until they are no longer inundated or they have been continuously inundated for 120 days. If the depressions desiccate and subsequently refill, the depressions will have to be sampled every 14 days for another 120 days or until they are no longer inundated.

TASK 14.0 CEQA ENVIRONMENTAL DOCUMENT (WBS 165.25)

Task 14.1 – Screencheck/Draft IS/MND \$16,118

The original scope provided for one review submittal and one concurrence submittal of the Screencheck/Draft IS/MND to Caltrans, as was standard practice in 2007. In October 2012, Caltrans adopted an Environmental Document QC Program that created additional steps in the QC procedure and required the preparation of additional submittals. Under the new program, Caltrans requires preparation of a submittal for interdisciplinary staff review (consistent with the original contract), preparation of a submittal for Environmental Branch Chief review (not included in the original contract), and preparation of a submittal for District approval/concurrence (consistent with original contract). Each of these

packages must be produced and submitted regardless of document quality. Additional effort will be required to prepare the additional submittal package and address comments from the Environmental Branch Chief.

Task 14.3 – Final IS/MND

\$11,080

The original scope provided for one review submittal and one concurrence submittal of the Final IS/MND to Caltrans, as was standard practice in 2007. In October 2012, Caltrans adopted an Environmental Document QC Program that created additional steps in the QC procedure and required the preparation of additional submittals. Under the new program, Caltrans requires preparation of a submittal for interdisciplinary staff review (consistent with the original contract), preparation of a submittal for Environmental Branch Chief review (not included in the original contract), and preparation of a submittal for District approval/concurrence (consistent with original contract). Each of these packages must be produced and submitted regardless of document quality. Additional effort will be required to prepare the additional submittal package and address comments from the Environmental Branch Chief.

TASK 18.0 ROADWAY PS&E (WBS 230.05)

Task 18.3 Street Lighting

\$25,441

The original scope provided for freeway and soffit lighting under the bridge. Street lighting along Limonite Avenue and in the Park & Ride lot were not provided for in the original scope. Following is a description of the effort involved in addressing lighting along Limonite Avenue and the Park & Ride lot.

Dokken will extend the street lighting across the bridge and modify the existing street lighting as needed within the project footprint in accordance with City/County standards. The redesigned Park & Ride lot will be analyzed and lighting will be designed to IES standards. The bridge may use decorative street lights; Dokken will work with the PDT and County/Cities to choose a decorative lighting style. Plans will then be prepared at the 65%, 95%, and 100% milestones using a layout consistent with the chosen street light. Existing service points for the lighting will be investigated and new service points/meters will be coordinated with Southern California Edison, if necessary. Dokken will assist the County in updating the existing maintenance agreement with Caltrans to include the new bridge lighting. Specifications and estimates will be prepared in accordance with the lighting incorporated into the project.

Task 18.4 Signal Interconnect

\$3,941

The original scope provided for the modification of signals at the two Limonite Avenue ramp intersections. Signal interconnect to adjacent signals along Limonite Avenue were not provided for in the original scope. At the County's request, signal interconnect plans, specifications, and estimates will be prepared for the segment of Limonite Avenue between the northbound ramp intersection and Pats Ranch Road for the 65%, 95%, and 100% milestones.

Contingency (10%)

\$12,868

Dokken Engineering estimates the total cost of the aforementioned changes/impacts to be approximately **\$141,546** (including contingency).

OPTIONAL TASKS

At the County's option, the following tasks can be added to the project as needed:

TASK 18.0 ROADWAY PS&E (WBS 230.05)

Task 18.5 Landscape/Irrigation (Optional)

\$126,280

The original contract scope of work provided for aesthetic hardscape features such as decorative railing, bridge/wall form liners, and stamped concrete. However, the original scope did not provide for landscape/irrigation design. Based on development of the project concept plans, it is anticipated that landscape planting and irrigation will be provided in the project area as follows:

Limonite Avenue: Landscaping will be provided for approximately 300 feet of median west of the interchange consistent with the existing landscaped median and in accordance with the City of Eastvale's concept approval. The median east of the interchange will be stamped concrete, in accordance with the City of Jurupa Valley's concept approval. Existing commercial landscaping/irrigation that is impacted as a result of construction will be restored as part of this task. Undeveloped fill slopes along Limonite will be treated with erosion control.

Interchange area: Moderate landscaping features and irrigation facilities in the form of ground cover, shrubs, trees, and river rock will be provided in accordance with the City of Eastvale's and the City of Jurupa Valley's concept approval.

The landscape and irrigation plans, specifications, and estimate will be prepared by a licensed Landscape Architect for inclusion in the interchange construction plans. A colored concept plan will be prepared at the 35% milestone to obtain consensus on the landscaping features. Subsequently, landscape and irrigation plans/estimates will be prepared for the 65%, 95%, and 100% PS&E submittal milestones. Specifications will be prepared at the 95% and 100% milestones in Caltrans 2010 format. Associated tasks included in this effort involve the coordination and establishment of water/power service points and maintenance agreements between the County, Cities, and Caltrans.

TASK 22.0 CONSTRUCTION BID SUPPORT (WBS 255.20)

Task 22.1 – Design Support During Bidding (Optional)

\$4,726

Landscaping and irrigation was not included in the original scope of work for the project. This task provides for bidding support by the Landscape Architect as it relates to inquiries and interpretations needed for the landscape and irrigation plans and specifications.

TASK 23.0 DESIGN SUPPORT DURING CONSTRUCTION (WBS 270.20.95)

Task 23.7 – Landscape/Irrigation Construction Support (Optional) \$16,039

Landscaping and irrigation was not included in the original contract scope of work for the project. This task provides for construction support by the Landscape Architect as it relates to construction related inquiries and interpretations needed for the landscape and irrigation plans and specifications. The Landscape Architect will respond to RFIs and be available to visit the site to address construction issues, submittal approvals, irrigation coverage, or punch list development. As-built plans for landscaping will also be prepared as part of this task.

Contingency (10%)

\$14,704

Dokken Engineering estimates the total cost of the optional (landscape-related) tasks to be approximately **\$161,749**.

A summary of this amendment request by primary task is provided below:

AMENDMENT SUMMARY

PHASE	TASK	TASK DESCRIPTION	COST	TOTAL
I	2.4	Traffic Volume Validation Report	\$7,100	
	3.2	Design Surveys	(\$39,033)	
	3.3	Survey Cross Sections	(\$27,906)	
	3.4.2	Right of Way Acquisition Plats/Descriptions	(\$5,346)	
	4.10	Project Study Report	\$19,315	
	11.3	Historical Resource Evaluation Report (Negative Findings)	(\$7,573)	
	12.1	Noise Study	\$23,567	
	12.3	Air Quality Analysis	\$15,180	
	12.6	Paleontology Information and Evaluation Report	\$25,000	
	12.7	Hazardous Materials Testing	\$9,560	
	13.1	Natural Environment Study (NES) Report	\$18,947	
	13.2	Rare Plant Focused Survey for San Diego Ambrosia	\$3,836	
	13.3	Burrowing Owl Habitat Evaluation/Focused Survey	\$564	
	13.4	Fairy Shrimp Habitat Evaluation/Focused Survey	\$28,887	
	14.1	Screencheck/Draft Initial Study/Mitigated Negative Declaration	\$16,118	
	14.3	Final Initial Study/Mitigated Negative Declaration	\$11,080	
	Contingency (10%)	\$9,930		
		Subtotal		\$109,226
II	18.3	Street Lighting	\$25,441	
	18.4	Signal Interconnect	\$3,941	
		Contingency (10%)	\$2,938	
		Subtotal	\$32,320	
II (Optional)	18.5	Landscape/Irrigation	\$126,280	
		Contingency (10%)	\$12,628	
		Subtotal	\$138,908	\$171,228
III (Optional)	22.1	Design Support During Bidding	\$4,726	
		Contingency (10%)	\$472	
		Subtotal		\$5,198
IV (Optional)	23.7	Landscape/Irrigation Construction Support	\$16,039	
		Contingency (10%)	\$1,604	
		Subtotal		\$17,643
GRAND TOTAL				\$303,295

Additional detail is provided in the following attachments:

- Attachment 1 – Cost Proposal: The “Amendment 1 Cost Estimate” table (consisting of 3 pages in WBS format plus 3 pages in 10H format) provides the above noted costs broken down by task, personnel, and hours for each firm, with a grand total provided in the right hand columns on page 3.
- Attachment 2 – Cost Proposal (Optional): The “Amendment 1 Optional Costs” table (consisting of 1 page in WBS format plus 2 pages in 10H format) provides the above noted costs broken down by task, personnel, and hours for each firm, with a grand total provided in the right hand column on page 1.

Please review this amendment request and, if you have any questions or need additional information, please don't hesitate to contact me at (916) 858-0642.

Sincerely,

DOKKEN ENGINEERING

A handwritten signature in cursive script that reads "Pamela Dalcin-Walling". The signature is written in black ink and is positioned above the typed name and title.

Pamela Dalcin-Walling, PE
Project Manager

Attachments: Attachment 1: Amendment 1 Cost Estimate
Attachment 2: Amendment 1 Optional Costs

ATTACHMENT 1

Amendment 1 Cost Estimate

I-15/Limonite Ave Amendment Summary

COMPANY NAME	Fee %	Phase I	Phase II	Phase III	Phase IV	Totals
Dokken Engineering	35.0%	\$31,874	\$72,565	\$1,922	\$3,055	\$109,416
Aguirre & Associates	0.0%	(\$72,286)	\$0	\$0	\$0	(\$72,286)
Aztec Engineering	0.0%	\$0	\$0	\$0	\$0	\$0
ICF (formerly Jones & Stokes)	32.6%	\$132,779	\$0	\$0	\$0	\$132,779
Estrada Land Planning	0.0%	\$0	\$0	\$0	\$0	\$0
Intueor Consulting	0.0%	\$0	\$0	\$0	\$0	\$0
Value Management Strategies	0.0%	\$0	\$0	\$0	\$0	\$0
Geocon Consultants, Inc.	1.2%	\$6,929	\$0	\$0	\$0	\$6,929
David Evans and Associates	31.2%	\$0	\$83,097	\$2,805	\$12,984	\$98,885
Subtotal:	100%	\$99,296	\$155,662	\$4,727	\$16,039	\$275,723
Contingency		\$9,930	\$15,566	\$472	\$1,604	\$27,572
TOTAL		\$109,226	\$171,228	\$5,198	\$17,643	\$303,295

Amendment 1 Cost Estimate

Task Description	DOKKEN ENGINEERING										TOTAL COST	
	Pamela Dacin-Walling Project Manager	Juana Ramos Project Engineer	George Dunn Traffic Engineer	Ryan Neves Senior Engineer	Jacqueline Lockhart Associate Engineer	Dan Segur Engineering Technician	TOTAL HOURS	OTHER DIRECT COST	TOTAL COST			
TASK 2 - TRAFFIC STUDIES												
2.4 Traffic Volume Validation Report	12		28									\$7,100
TASK 3 - PROJECT MAPPING	12		28									\$7,100
3.2 Design Surveys												
3.3 Survey Cross Sections												
3.4.2 Right of Way Acquisition Plats/Descriptions												
TASK 4 - PRELIMINARY DESIGN	80			20		24						\$19,315
4.10 Project Study Report	80			20		24						\$19,315
TASK 11 - CULTURAL TECHNICAL STUDIES												
11.3 HRER (Negative Findings)												
TASK 12 - GENERAL ENVIRONMENTAL STUDIES	12	4	12		2							\$5,459
12.1 Noise Study	4		12									\$2,827
12.3 Air Quality Analysis												
12.6 Paleontological Information Rpt/Paleontological Evaluation Rpt												
12.7 Hazardous Materials Testing	8	4			2							\$2,632
TASK 13 - BIOLOGICAL STUDIES												
13.1 Natural Environment Study (NES) Report												
13.2 Rare Plant Habitat Evaluation/Focused Survey for San Diego Ambrosia												
13.3 Burrowing Owl Habitat Evaluation and Burrow Survey												
13.4 Fairy Shrimp Habitat Evaluation and Focused Survey												
TASK 14 - CEQA ENVIRONMENTAL DOCUMENT												
14.1 Screencheck/Draft IS/MND												
14.3 Final IS/MND												
TASK 18 - ROADWAY PS&E	20	8	8	60	120	4	212					\$29,382
18.3 Street Lighting	20	8	8	50	100	4	182					\$25,441
18.4 Signal Interconnect				10	20		30					\$3,941
TOTAL HOURS	124	12	40	80	122	28	406					
TOTAL COST	\$23,425	\$2,619	\$6,905	\$11,726	\$15,100	\$1,482						\$61,256
CONTINGENCY (10%)												
GRAND TOTAL												

Amendment 1 Cost Estimate

Task Description	GEOCON CONSULTANTS, INC.							TOTAL COST
	Senior Engineer	Senior Project Engineer	Project Engineer	Drafting	Administration	TOTAL HOURS	OTHER DIRECT COST	
	\$161.49	\$117.31	\$97.50	\$114.26	\$51.80			
TASK 2 - TRAFFIC STUDIES								
2.4 Traffic Volume Validation Report								
TASK 3 - PROJECT MAPPING								
3.2 Design Surveys								
3.3 Survey Cross Sections								
3.4.2 Right of Way Acquisition Plats/Descriptions								
TASK 4 - PRELIMINARY DESIGN								
4.10 Project Study Report								
TASK 11 - CULTURAL TECHNICAL STUDIES								
11.3 HRER (Negative Findings)								
TASK 12 - GENERAL ENVIRONMENTAL STUDIES								
12.1 Noise Study	2	20	4	4	5	35	\$3,154	\$6,929
12.3 Air Quality Analysis								
12.6 Paleontological Information Rpt/Paleontological Evaluation Rpt								
12.7 Hazardous Materials Testing	2	20	4	4	5	35	\$3,154	\$6,929
TASK 13 - BIOLOGICAL STUDIES								
13.1 Natural Environment Study (NES) Report								
13.2 Rare Plant Habitat Evaluation/Focused Survey for San Diego Ambrosia								
13.3 Burrowing Owl Habitat Evaluation and Burrow Survey								
13.4 Fairy Shrimp Habitat Evaluation and Focused Survey								
TASK 14 - CEQA ENVIRONMENTAL DOCUMENT								
14.1 Screencheck/Draft IS/MND								
14.3 Final IS/MND								
TASK 18 - ROADWAY PS&E								
18.3 Street Lighting								
18.4 Signal Interconnect								
TOTAL HOURS	2	20	4	4	5	35		
TOTAL COST	\$323	\$2,346	\$390	\$457	\$259		\$3,154	\$6,929
CONTINGENCY (10%)								
GRAND TOTAL								

Amendment 1 Cost Estimate

Task Description	ICF													TOTAL HOURS	OTHER DIRECT COST	TOTAL COST		
	Environmental Scientist (Pm Manager)	Environmental Specialist IV (NEPA/CEQA)	Environmental Specialist (Cultural Resources/Arch)	Environmental Specialist III (Cultural Resources/HA)	Environmental Specialist III (GIS)	Project Director (Noise/Bio)	Environmental Specialist IV (Noise/Bio)	Environmental Scientist (Senior Air Quality)	Technical Editor/Writer II (Editor)	Administrative Tech (Admin)	Environmental Scientist II (Environmental Generalist)	Senior Consult (Bio)	Environmental Specialist II (Biology/Regulatory)				Environmental Scientist (Regulatory)	Environmental Scientist (Biology/Regulatory)
TASK 2 - TRAFFIC STUDIES																		
2.4 Traffic Volume Validation Report																		
TASK 3 - PROJECT MAPPING																		
3.2 Design Surveys																		
3.3 Survey Cross Sections																		
3.4.2 Right of Way Acquisition Plats/Descriptions																		
TASK 4 - PRELIMINARY DESIGN																		
4.10 Project Study Report																		
TASK 11 - CULTURAL TECHNICAL STUDIES																		
11.3 HRER (Negative Findings)				-84													(\$7,573)	
TASK 12 - GENERAL ENVIRONMENTAL STUDIES																		
12.1 Noise Study	12	24	12		48	21	126	94	24	4						365	\$21,770	
12.3 Air Quality Analysis	4	8			36	21	126			4						199	\$1,080	
12.6 Paleontological Information Rpt/Paleontological Evaluation Rpt	4	8	12		12			94	12							118	\$650	
12.7 Hazardous Materials Testing	4	8														48	\$20,940	
TASK 13 - BIOLOGICAL STUDIES																		
13.1 Natural Environment Study (NES) Report	9	20			20	18			4	6	111	41	100	12	24	8	394	\$2,015
13.2 Rare Plant Habitat Evaluation/Focused Survey for San Diego Ambrosia	3	10			20								100	12	24		189	\$890
13.3 Burrowing Owl Habitat Evaluation and Burrow Survey	2	5							4	6	1					39	6	\$220
13.4 Fairy Shrimp Habitat Evaluation and Focused Survey	4	5														6	6	\$90
TASK 14 - CEQA ENVIRONMENTAL DOCUMENT																		
14.1 Screencheck/Draft IS/MND	14	104			24	5	32	24	12	4	110	40	4	4	8	224	224	\$7,200
14.3 Final IS/MND	8	64			16	4	20	12	8	4			3	3	139	139	\$3,600	
TASK 16 - ROADWAY PS&E																		
16.3 Street Lighting	6	40			8	1	12	12	4	4			1	1	85	85	\$3,600	
16.4 Signal Interconnect																		
TOTAL HOURS	35	148	12	-84	92	44	147	99	60	34	12	111	41	104	12	24	8	899
TOTAL COST	\$5,317	\$11,736	\$1,570	-\$7,573	\$8,294	\$7,025	\$13,440	\$12,871	\$5,333	\$2,547	\$929	\$21,134	\$5,174	\$11,474	\$1,324	\$2,648	\$550	\$30,985
CONTINGENCY (10%)																		
GRAND TOTAL																		

Amendment 1 Cost Estimate

Task Description	AGUIRRE & ASSOCIATES						GRAND TOTAL HOURS	OTHER DIRECT COSTS	GRAND TOTAL COSTS
	Project Manager	Principal/QAC	Technician I	TOTAL HOURS	OTHER DIRECT COST	TOTAL COST			
TASK 2 - TRAFFIC STUDIES						40		\$7,100	
2.4 Traffic Volume Validation Report						40		\$7,100	
TASK 3 - PROJECT MAPPING								(\$72,286)	
3.2 Design Surveys								(\$39,033)	
3.3 Survey Cross Sections								(\$27,906)	
3.4.2 Right of Way Acquisition Plats/Descriptions								(\$5,346)	
TASK 4 - PRELIMINARY DESIGN						124		\$19,315	
4.10 Project Study Report						124		\$19,315	
TASK 11 - CULTURAL TECHNICAL STUDIES						84		-\$7,573	
11.3 HRER (Negative Findings)						84		-\$7,573	
TASK 12 - GENERAL ENVIRONMENTAL STUDIES						430	\$24,924	\$73,307	
12.1 Noise Study						215	\$1,080	\$23,567	
12.3 Air Quality Analysis						118	\$650	\$15,180	
12.6 Paleontological Information Rpt/Paleontological Evaluation Rpt						48	\$20,040	\$25,000	
12.7 Hazardous Materials Testing						49	\$3,154	\$9,560	
TASK 13 - BIOLOGICAL STUDIES						394	\$2,015	\$62,233	
13.1 Natural Environment Study (NES) Report						169	\$890	\$18,947	
13.2 Rare Plant Habitat Evaluation/Focused Survey for San Diego Ambrosia						39	\$220	\$3,836	
13.3 Burrowing Owl Habitat Evaluation and Burrow Survey						6	\$80	\$564	
13.4 Fairy Shrimp Habitat Evaluation and Focused Survey						180	\$815	\$28,887	
TASK 14 - CEQA ENVIRONMENTAL DOCUMENT						224	\$7,200	\$27,198	
14.1 Screencheck/Draft IS/MND						139	\$3,600	\$16,118	
14.3 Final IS/MND						85	\$3,600	\$11,080	
TASK 18 - ROADWAY PS&E						212		\$28,382	
18.3 Street Lighting						182		\$25,441	
18.4 Signal Interconnect						30		\$3,941	
TOTAL HOURS						1,340			
TOTAL COST								(\$72,286)	
CONTINGENCY (10%)							\$34,138	\$12,868	
GRAND TOTAL								\$141,546	

DOKKEN ENGINEERING

Project: I-15/Limonite Avenue Interchange Project **Date:** 1/24/2014
Scope of Work: Project Report and Final Design **Milestone:** Phase 1 (PA/ED) & 2 (PS&E)

FEE PROPOSAL

Dokken Engineering

DIRECT COSTS (LABOR)

NAME	FUNCTION	HOURS	RATE	AMOUNT
Pamela Dalcin-Walling, PE	Project Manager	124	\$58.00	\$7,192.00
Juann Ramos, PE	Project Engineer	12	\$67.00	\$804.00
George Dunn	Traffic Engineer	40	\$53.00	\$2,120.00
Ryan Neves	Senior Engineer	80	\$45.00	\$3,600.00
Jacqueline Lockhart, PE	Associate Engineer	122	\$38.00	\$4,636.00
Dan Segur	Engineering Technician	28	\$16.25	\$455.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL HOURS		406		TOTAL LABOR
				\$18,807

INDIRECT COSTS (OVERHEAD)

ESCALATION	5.00%	\$940.35
OVERHEAD	182.00%	\$35,940.18
TOTAL OVERHEAD		\$36,881

DIRECT COSTS

Billed at Actual Cost

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS				\$0

SUBCONSULTANT SERVICES

COMPANY	TOTAL
Geocon	\$6,929
ICF	\$132,779
Aguirre & Associates	(\$72,286)
Contingency	\$12,868
TOTAL SUBCONSULTANT SERVICES	
\$80,290	

SUBCONSULTANT SERVICES FEE

DE FEE (PROFIT)	10%	\$5,568.75
TOTAL FEES		\$5,569
TOTAL COST		\$141,546

GEOCON

Project:
Scope of Work:

I-15/Limonite Avenue Interchange Project
Hazardous Waste Testing

Date: 1/24/2014
Milestone: Phase 1 (PA/ED)

FEE PROPOSAL

Geocon

DIRECT COSTS (LABOR)

NAME	FUNCTION	HOURS	RATE	AMOUNT
Senior Engineer	QA/QC - Review	2	\$53.00	\$106.00
Senior Project Engineer	Field Sampling / Reporting	20	\$38.50	\$770.00
Project Engineer	Coordination	4	\$32.00	\$128.00
Drafting	Drafting	4	\$37.50	\$150.00
Administration	Word Processing	5	\$17.00	\$85.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL HOURS		35	TOTAL LABOR \$1,239	

INDIRECT COSTS (OVERHEAD)

ESCALATION	\$0.00
OVERHEAD	177.00% \$2,193.03
TOTAL OVERHEAD \$2,193	

DIRECT COSTS

Billed at Actual Cost

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Truck Mileage	110	Mile	\$0.55	\$60.50
Traffic Control	1	EA	\$1,350.00	\$1,350.00
Laboratory Testing	1	EA	\$1,743.00	\$1,743.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS				\$3,154

SUBCONSULTANT SERVICES

COMPANY	TOTAL	
TOTAL SUBCONSULTANT SERVICES		\$0

**SUBCONSULTANT SERVICES FEE
DE FEE (PROFIT)**

10%	\$343.20
TOTAL FEES \$343	
TOTAL COST \$6,929	

ICF

Project: I-15/Limonite Avenue Interchange Project **Date:** 1/24/2014
Scope of Work: Environmental Documentation **Milestone:** Phase 1 (PA/ED)

FEE PROPOSAL

ICF

DIRECT COSTS (LABOR)

NAME	FUNCTION	HOURS	RATE	AMOUNT
Environmental Scientist Senior	Project Manager	35	\$48.32	\$1,691.15
Environmental Specialist IV	NEPA/CEQA Lead	148	\$25.22	\$3,732.80
Environmental Specialist	Cultural/Archaeological	12	\$41.60	\$499.22
Environmental Specialist III	Cultural Resources/HA	-84	\$28.67	-\$2,408.49
Environmental Specialist III	GIS	92	\$28.67	\$2,637.87
Project Director	Noise/Bio	44	\$50.78	\$2,234.20
Environmental Specialist IV	Noise/Bio	147	\$29.08	\$4,274.70
Environmental Scientist Senior	Air Quality	99	\$41.35	\$4,093.66
Technical Editor/Writer II	Editor	60	\$28.27	\$1,696.11
Administrative Tech	Administrator	34	\$23.83	\$810.17
Environmental Scientist II	Environmental Generalist	12	\$24.62	\$295.45
Senior Consult	Biology	111	\$60.56	\$6,721.86
Environmental Specialist II	Biology/Regulatory	41	\$24.62	\$1,009.44
Environmental Scientist	Regulatory	104	\$35.09	\$3,649.44
Environmental Scientist	Biology/Regulatory	12	\$35.09	\$421.09
Environmental Scientist	Regulatory	24	\$35.09	\$842.18
Assist Consult	Biology	8	\$21.87	\$174.98
				\$0.00
				\$0.00
TOTAL HOURS		899		TOTAL LABOR
				\$32,376

INDIRECT COSTS (OVERHEAD)

ESCALATION	0.00%	\$0.00
OVERHEAD	185.83%	\$60,163.98
TOTAL OVERHEAD		\$60,164

DIRECT COSTS

Billed at Actual Cost

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	each	\$6,300.00	\$6,300.00
Travel (including rental car)	1200	each	\$0.55	\$660.00
Postage/delivery	1	each	\$4,635.00	\$4,635.00
Record searches	1	each	\$800.00	\$800.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS				\$12,395

SUBCONSULTANT SERVICES

COMPANY	TOTAL
San Diego Muesum (Paleontology)	\$18,590.00
TOTAL SUBCONSULTANT SERVICES	
\$18,590	

SUBCONSULTANT SERVICES FE DE FEE (PROFIT)

10% \$9,253.98

TOTAL FEES \$9,254

TOTAL COST \$132,779

ATTACHMENT 2

Amendment 1 Optional Costs

Amendment 1 Optional Costs

Task Description	DOKKEN ENGINEERING										TOTAL COST
	Pamela Dalcin-Walling Project Manager	Juann Ramos Project Engineer	George Dunn Traffic Engineer	Ryan Neves Senior Engineer	Jacqueline Lockhart Associate Engineer	Dan Segur Engineering Technician	TOTAL HOURS	OTHER DIRECT COST			
TASK 18 - ROADWAY PS&E	\$188,91	\$218,23	\$172,63	\$146,57	\$123,77	\$52,93	257				\$43,183
18.5 Landscape/Irrigation	76	68			113		257				\$43,183
TASK 22 - CONSTRUCTION BID SUPPORT	4	4	4	2			10				\$1,922
22.1 Design Support During Bidding	4	4	4	2			10				\$1,922
TASK 23 - DESIGN SUPPORT DURING CONSTRUCTION	10	4	4	2			16				\$3,065
23.7 Landscape/Irrigation Construction Support	10	4	4	2			16				\$3,065
TOTAL HOURS	90	76		4	113		283				
TOTAL COST	\$17,002	\$16,585		\$586	\$13,986						\$48,169
CONTINGENCY (10%)											
GRAND TOTAL											

Amendment 1 Optional Costs

Task Description	DAVID EVANS AND ASSOCIATES										GRAND TOTAL HOURS	OTHER DIRECT COSTS	GRAND TOTAL COSTS			
	Project Manager/ Landscape Architect		QA/QC		Landscape Designer		Irrigation Designer		Administration					TOTAL HOURS	OTHER DIRECT COST	TOTAL COST
	\$124,53	\$182,23	\$91,12	\$107,82	\$88,08	16	698	\$500	\$83,097							
TASK 18 - ROADWAY PS&E	370	40	90	182	16	16	698	\$500	\$83,097	955	\$500	\$126,280				
18.5 Landscape/Irrigation	370	40	90	182	16	16	698	\$500	\$83,097	955	\$500	\$126,280				
TASK 22 - CONSTRUCTION BID SUPPORT	12	4	4	4	4	20	20	\$150	\$2,805	30	\$150	\$4,726				
22.1 Design Support During Bidding	12	4	4	4	4	20	20	\$150	\$2,805	30	\$150	\$4,726				
TASK 23 - DESIGN SUPPORT DURING CONSTRUCTION	48	6	16	36	36	106	106	\$574	\$12,984	122	\$574	\$16,039				
23.7 Landscape/Irrigation Construction Support	48	6	16	36	36	106	106	\$574	\$12,984	122	\$574	\$16,039				
TOTAL HOURS	430	50	106	222	16	824	1,107									
TOTAL COST	\$63,546	\$9,112	\$9,658	\$23,936	\$1,409	\$86,885		\$1,224	\$86,885		\$1,224	\$147,045				
CONTINGENCY (10%)																
GRAND TOTAL												\$161,749				

DAVID EVANS and ASSOC

Project: I-15/Limonite Avenue Interchange Project **Date:** 1/24/2014
Scope of Work: Landscape Design (Optional) **Milestone:** Phase 2 (PS&E)

FEE PROPOSAL

ICF

DIRECT COSTS (LABOR)

NAME	FUNCTION	HOURS	RATE	AMOUNT
Almabeth Anderson, LA 4985	Project Manager / Landscape Archi	430	\$41.00	\$17,630.00
Kim S. Rhodes, LA 3867	QA/QC	50	\$60.00	\$3,000.00
Danny Wang	Landscape Designer	106	\$30.00	\$3,180.00
Jon S. Oen, CID	Irrigation Designer	222	\$35.50	\$7,881.00
Terri Easter	Administration	16	\$29.00	\$464.00
				\$0.00
				\$0.00
				\$0.00
TOTAL HOURS		824	TOTAL LABOR \$32,155	

INDIRECT COSTS (OVERHEAD)

ESCALATION	\$0.00
OVERHEAD	176.11% \$56,628.17
TOTAL OVERHEAD \$56,628	

DIRECT COSTS

Billed at Actual Cost

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage	400	MILES	\$0.56	\$224.00
Graphics / Printing	1	EACH	\$800.00	\$800.00
Postage / Overnight Shipping	4	PKGS	\$50.00	\$200.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS				\$1,224

SUBCONSULTANT SERVICES

COMPANY	TOTAL	
TOTAL SUBCONSULTANT SERVICES		\$0

SUBCONSULTANT SERVICES FEE FEE (PROFIT)

10%	\$8,878.32
TOTAL FEES \$8,878	

TOTAL COST **\$98,885**

ATTACHMENT 3

Gantt Chart

ID	Task Name	Duration	Start	Finish
1	I-15/Limonite Avenue Interchange	3308 days	Fri 4/27/07	Tue 12/31/19
2	NTP PSR (PDS)	0 days	Fri 4/27/07	Fri 4/27/07
3	Prepare/Review PSR (PDS)	1404 days	Fri 4/27/07	Wed 9/12/12
4	PSR (PDS) Approval	0 days	Wed 9/12/12	Wed 9/12/12
5	NTP PA/ED	110 days	Thu 9/13/12	Wed 2/13/13
6	PA/ED Phase	595 days	Thu 2/14/13	Wed 5/27/15
7	PA/ED Approval	0 days	Wed 5/27/15	Wed 5/27/15
8	NTP PS&E	0 days	Wed 11/13/13	Wed 11/13/13
9	PS&E Phase	535 days	Thu 11/14/13	Wed 12/2/15
10	RW Certification	255 days	Thu 12/3/15	Wed 11/23/16
11	Advertise Project	35 days	Thu 11/24/16	Wed 1/11/17
12	Award Contract	30 days	Thu 1/12/17	Wed 2/22/17
13	Construct Project	385 days	Thu 2/23/17	Wed 8/15/18
14	Open to Traffic	0 days	Wed 8/15/18	Wed 8/15/18
15	Post Construction Activities	359 days	Thu 8/16/18	Tue 12/31/19
16	Project Complete	0 days	Tue 12/31/19	Tue 12/31/19

