

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



ITEM
3.24
(ID # 6666)

MEETING DATE:

Tuesday, May 1, 2018

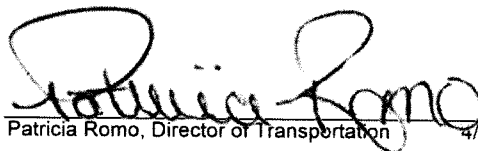
FROM : TLMA-TRANSPORTATION:

SUBJECT: TRANSPORTATION AND LAND MANAGEMENT AGENCY/TRANSPORTATION:
Approval of Amendment No 2 to the Agreement between the County of Riverside and Dokken Engineering for Engineering Services on the Interstate 15/Limonite Avenue Interchange Project. 2nd District; [\$300,000 Current FY; \$3,555,241 Total]; Local Funds 100%

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve Amendment No. 2 to Agreement between the County of Riverside and Dokken Engineering for Engineering Services on the I-15/Limonite Avenue Interchange and;
2. Authorize the Chairman of the Board of Supervisors to execute the same.

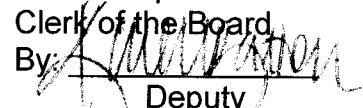
ACTION: Policy


Patricia Romo, Director of Transportation 4/16/2018

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Perez, seconded by Supervisor Ashley and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Tavaglione, Perez and Ashley
Nays: None
Absent: Washington
Date: April 24, 2018
xc: Transp.

Kecia Harper-Ihem
Clerk of the Board
By: 
Deputy

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

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	\$ 300,000	\$ 120,000	\$ 3,555,241	\$ 0
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0
SOURCE OF FUNDS: Mira Loma RBBB (100%) No General Funds are used on this project			Budget Adjustment: No	
			For Fiscal Year: 17/18 – 20/21	

C.E.O. RECOMMENDATION: Approve

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 (agenda item 3.35) the Board of Supervisors approved an agreement with Dokken Engineering to prepare the environmental document, plans, specifications, estimates, and provide project bidding and construction support. On April 22, 2014 (agenda item 3.69) the Board of Supervisors approved Amendment 1 to the Engineering Services Agreement to include additional work necessary to comply with new state and federal requirements related to the completion of the environmental document, and for the preparation of landscape design plans as requested by the City of Eastvale.

Amendment 2 to the Engineering Services Agreement would include additional services to incorporate alternative landscape design for the City of Jurupa Valley, aesthetic design work, project phasing for acceleration of the project, and coordination with the I-15 Express Lanes project to ensure timely delivery. Amendment 2 would also include provisions to extend the term of the contract through December 31, 2020.

Amendment No. 2 proposes to increase the budget by \$460,578:

Current Contract	\$3,094,663
Amendment No 2	<u>\$ 460,578</u>
Total Contract	\$3,555,241

On March 20th, 2018 (agenda item 3.13) the Board of Supervisors authorized the Clerk of the Board to advertise the project for construction bids. Construction is expected to begin in late summer 2018.

Impact on Residents and Businesses

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

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

Amendment 2 includes costs for final design, bidding support and construction support through the end of construction and will be funded with Mire Loma Road and Bridge Benefit District (RBBD) funds. No General Funds will be used on this project.

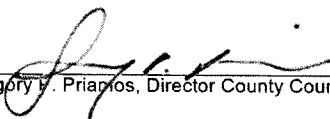
On April 6, 2017, the California Senate approved Senate Bill Number 132 (SB-132) which added appropriation to the budget bill to provide \$427,172,000 for five major transportation projects. SB-132 includes provisions for providing funding in the amount of \$48 Million for the construction on the I-15/Limonite Avenue Interchange project. SB-132 funds for the project will be used for construction.

ATTACHMENTS

Vicinity Map

Amendment Number 2

Attachment A2, C2 Amend No. 2 1-16-18



Gregory V. Priamos, Director County Counsel 4/18/2018

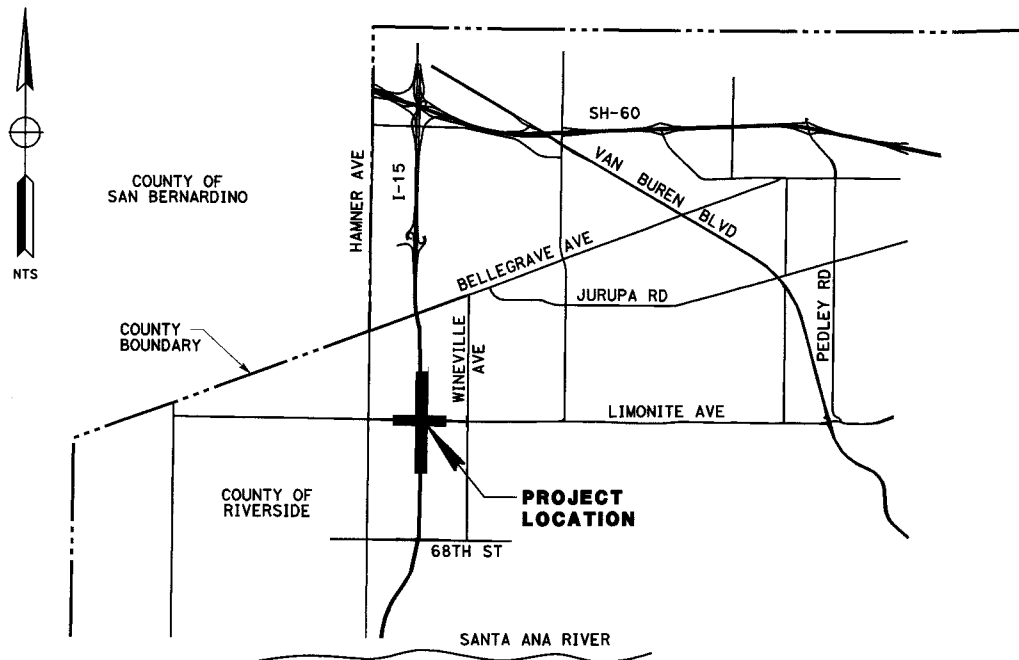
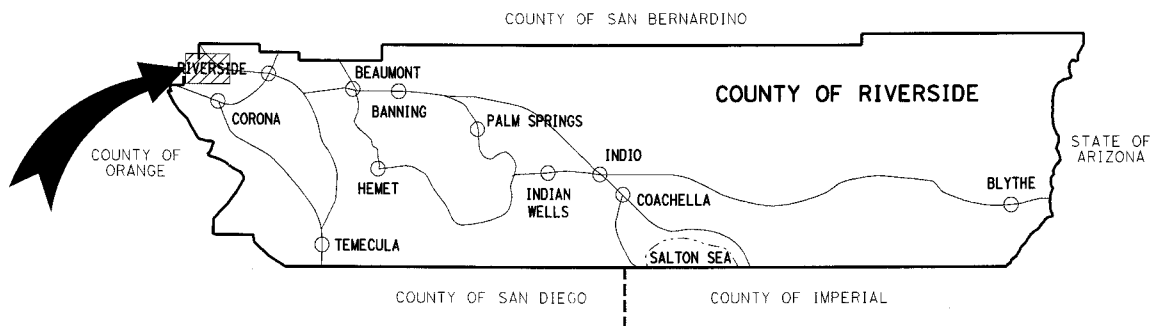
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

LIMONITE AVE AT INTERSTATE 15

INTERCHANGE IMPROVEMENTS

IN THE CITY OF EASTVALE AND THE CITY OF JURUPA VALLEY

PROJECT No. A3-0393



VICINITY MAP

TOWNSHIP 2S RANGE 6W SECTION 19/30
COUNTY ROAD BOOK PAGE No. 14E

AMENDMENT 2

TO AGREEMENT BETWEEN

THE COUNTY OF RIVERSIDE AND DOKKEN ENGINEERING

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

THIS AMENDMENT 2 (hereinafter the "Amendment") to an agreement is made and entered into as of this 1st day of May, 2018, by and between the County of Riverside, a political subdivision of the State of California (hereinafter "COUNTY"), and Dokken Engineering, a California corporation (hereinafter "ENGINEER").

RECITALS

- A. COUNTY and ENGINEER have entered in an agreement entitled "Engineering Services Agreement for the Limonite Avenue Interchange at Interstate 15 (I-15) between the County of Riverside • Transportation Department and Dokken Engineering that is dated April 17, 2007, amended on April 22, 2014 (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 supplement the current Agreement to increase the contract budget, modify the scope of services to be provided by the Engineer, and extend the term of the contract.
- C.

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.1 of the Agreement is modified to reflect the not-to-exceed amount of \$2,702,999 (\$3,094,663 including contingencies) to be increased by \$418,707 (\$460,578 including contingencies) to \$3,121,706 (\$3,555,241 with contingencies) as provided below:

- Increase the Agreement Phase 1 budget by \$5,474 – for engineering services necessary to manage and incorporate a right turn lane at the Park and Ride as requested by Caltrans, develop revalidation documents including the IS/MND and CE.
- Increase the Agreement Phase 2 budget by \$405,457 – for engineering services necessary to incorporate the following: landscape and irrigation design for the City of Jurupa Valley matching that proposed for the City of Eastvale as an Add-Alternative bid; Phasing Analyses including conceptual

1 design and traffic analysis to assess the feasibility of phasing construction as an alternative to reduce
2 current construction costs; revisions to Aesthetic Design Elements at the request of the stakeholders;
3 update project plans to comply with recently updated Caltrans design Standards; assistance and
4 coordination in the procurement of the Construction Management consultant team; additional project
5 management and design coordination related to the I-15 Express Lane Project and construction
6 acceleration strategies to ensure the timely delivery of both projects with overlapping project limits
7 and construction schedules.

- 8 • Increase the agreement Phase 3 budget by \$1,968 – to provide additional bidding support for the
9 landscape and irrigation contract components.
- 10 • Increase the agreement Phase 4 budget by \$5,508 – for construction support by the Landscape
11 Architect including response to inquiries by the contractor and site visits during construction.
- 12 • Increase the contingency budget by \$41,871 - to be used with prior written approval by the Director of
13 Transportation for unforeseen or additional tasks to complete the scope of services.

14 2. Article VI COMPENSATION, subparagraph B.1 is further modified to reflect the following additional
15 amounts of compensation for ENGINEER and the contingency budget:

- | | | |
|----|------------------------------|---------------|
| 16 | • Prime - Dokken Engineering | \$ 337,894.00 |
| 17 | • David Evans and Associates | \$ 80,813.00 |
| 18 | • Contingency | \$ 41,871.00 |

19 3. Appendix A. Scope of Services - is amended to include the additional scope of work as reflected in
20 Attachment "A2" of this Amendment, consisting of 7 pages, attached hereto and incorporated by this
21 reference.

22 4. Appendix B. Article BI. Introduction – For the Schedule of Services, the introductory paragraph is modified
23 to reflect that time for completion for the Engineering Services Agreement shall be extended to December
24 31, 2020.

25 5. Appendix C. Budget - is modified as set forth in the summaries of the requested and recommended
26 budget adjustments and billing rates as provided in Attachment "C2" of this Amendment, consisting of 19
27 pages, attached hereto and incorporated by this reference.

28 6. Except to the extent specifically modified or amended hereunder, all of the terms, covenants and
29 conditions of the Agreement as approved on April 17, 2007 and amended April 22, 2014 shall remain in

1 full force and effect between the parties hereto.

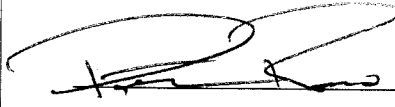
2 IN WITNESS HEREOF, the parties hereto have caused this Amendment to the Agreement to be duly executed
3 this day and year first written above.

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ARTICLE VII • APPROVALS

COUNTY Approvals

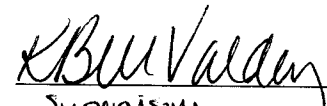
RECOMMENDED FOR APPROVAL:

 Dated: 4-17-2018

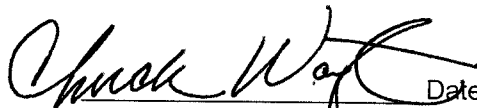
Patricia Romo
Director of Transportation

APPROVED AS TO FORM:

Gregory P. Priamos, County Counsel

 Dated: 4/18/18
Superiority
By Deputy County Counsel

APPROVAL BY THE BOARD OF SUPERVISORS

 Dated: MAY 01 2018

CHUCK WASHINGTON
PRINTED NAME
Chairman, Riverside County Board of Supervisors

ATTEST:

 Dated: MAY 01 2018

KECIA HARPER-IHEM
Clerk to the Board of Supervisors (SEAL)

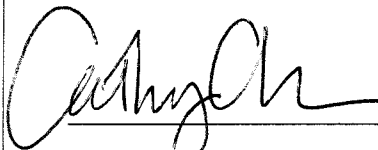
ENGINEER Approvals

ENGINEER:

 Dated: 4/12/18

Richard T. Liptak
PRINTED NAME
President
TITLE

ENGINEER:

 Dated: 4/12/18

Cathy Chan
PRINTED NAME
Secretary
TITLE



January 16, 2018

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

**RE: Amendment Request #2 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 10 years ago and Amendment No. 1 was processed in 2015. Since that time, some design standards and guidelines have changed and additional scope tasks have been added. The impact of these changes to the level of effort of specific tasks is described in detail below:

PHASE I

TASK 17.0 ENVIRONMENTAL REVALIDATION (WBS 165.25)

Task 17.1 – CEQA/NEPA Revalidation \$5,474

Based on a request received by the City of Jurupa Valley, a dedicated right turn lane to the Park & Ride has been added to the project. This right turn lane, and the grading associated with it, was not in the original design. Although the improvements remain within the original environmental study area, this element was not included in the IS/MND and CE prepared for the project. In addition, the funding for the project has changed. Caltrans required that both of these changes be covered in a separate revalidation from that which they undertake at the close of final design.

For this task, Dokken will prepare the revalidation form and submit to the County and Caltrans for review. Dokken will address comments and update the form as needed to obtain approval. Dokken will then assist the County in preparing the submittal package for the CTC, including a transmittal letter and copies of the IS/MND, Project Report, Notice of Determination, and exhibit.

Deliverable: CEQA/NEPA Revalidation

PHASE II

TASK 18.0 ROADWAY PS&E (WBS 230.05)

Task 18.5 Landscape/Irrigation \$79,230

The amended contract scope of work provided for landscape/irrigation design for the Eastvale (west) side of the interchange. Due to recent funding developments, the City of Jurupa Valley has requested that landscape and irrigation matching that proposed for Eastvale be developed for the Jurupa Valley (east) side of the interchange as an Add-Alternative set of plans. Based on the approved concept plans for the

Eastvale side of the interchange, it is anticipated that landscape planting and irrigation will be provided for the Jurupa Valley project limits as follows:

Limonite Avenue: Streetscape improvement plans will be prepared for areas affected by the interchange construction efforts. These areas include the north parkway west of the interchange in Eastvale – a distance of approximately 300 linear feet (5,200 square feet), fronting the Edwards Cinemas – and the south side of Limonite Avenue in Jurupa Valley, east of the interchange along the Denny’s/Lowes commercial center parkway – a distance of approximately 380 linear feet (7,850 square feet), which could include areas from the back of sidewalk, potentially up to the temporary construction easement.

The streetscape improvement plans will include planting and irrigation improvement that restore their existing condition, utilizing the same materials as those currently found in each location. This task will include coordination with City and/or property management maintenance to ensure an understanding of the existing irrigation system and the acquisition of as-built plans if available.

Interchange Area: “Full” landscaping features and irrigation facilities in the form of ground cover, shrubs, trees, and river rock will be provided in accordance with the approved landscape concept for the Eastvale side of the interchange. Therefore, the proposed landscape improvements for Jurupa Valley shall be consistent with the Eastvale improvements to the degree possible.

The landscape and irrigation plans, specifications, and estimate will be prepared by a licensed Landscape Architect. Given the project schedule, landscape and irrigation PS&E’s (2015 Construction Contract Standards) will be prepared for the 95% and 100% PS&E submittal milestones. This task includes one meeting with the City/County during the design process.

Deliverable: Streetscape Improvement Plans

TASK 21.0 ENGINEERING SUPPORT (WBS 230.05)

Task 21.1 – Utility Coordination

\$11,779

The decision to expedite the design schedule for the project has resulted in additional effort needed to coordinate utility relocations. To ensure that the relocation activities are performed in a compressed time-frame, additional meetings, conference calls, exhibits, and follow ups will be required with the various utility companies, including Southern California Edison, Charter, Southern California Gas, and Jurupa Community Services District.

TASK 24.0 PHASING ANALYSES

To explore options for reducing the project scope and construction budget, the County requested that Dokken Engineering perform a feasibility analysis for phasing the project. This effort was not included in the original scope and included the following tasks:

Task 24.1 – Phasing Concept Development

\$45,650

At the County’s request, Dokken Engineering will evaluate the proposed Limonite Avenue Interchange improvements and identify opportunities to construct the project in two phases: Phase 1 and Phase 2, taking into consideration constructability and benefit to traffic operations.

Dokken will prepare a concept exhibit that identifies the Phase 1 improvements, the extent of temporary (“throw away”) work, and required design exceptions. Dokken will also prepare an exhibit illustrating the right of way that would need to be acquired for Phase 1 construction.

Dokken will prepare a preliminary cost estimate detailing the approximate construction cost for the Phase 1 project. In addition, to assist the County with the decision-making process, Dokken will prepare a cost comparison of Phase 1, Phase 2, and Unphased project costs to demonstrate the offsetting costs associated with phasing the project. Dokken will summarize the results of the Phasing Analysis in a technical memorandum and will attend a meeting with County staff to present the results of the concept development and projected construction cost savings.

Deliverable: Phasing Analysis Memorandum and Exhibit

Task 24.2 – Phasing Traffic Analysis

\$5,337

The Dokken team will conduct a traffic analysis of the proposed Phase 1 project to determine the feasibility of phasing the project.

The Dokken team will provide a recommendation to the County regarding the location and type of traffic counts to obtain. Using the updated traffic counts obtained by the County, together with historical data, Dokken will prepare an analysis of the current and forecasted traffic volumes.

The Dokken team will set up a Synchro traffic model for the Phase 1 alternative using the existing and forecast volumes to analyze the Level of Service anticipated at all of the major intersections in the project area. If any Level of Service falls below the allowable thresholds, Dokken's traffic engineer will coordinate with the designers to alter the design such that the minimum Level of Service can be attained.

Dokken will summarize the results of this analysis in a Technical Memorandum and submit the memorandum to the County for review. Comments will be addressed and a final memorandum will be incorporated into the Phasing Summary technical memorandum for consideration of the phasing strategy.

Deliverable: Conceptual Traffic Operations Memorandum

TASK 25.0 BRIDGE AESTHETICS

As part of the original scope of work, Dokken Engineering worked with all project stakeholders to determine the desired aesthetic treatments for the project. Aesthetic elements were selected and incorporated into the project's 65% plans, specifications, and estimate. Subsequent to this milestone, stakeholders requested that the aesthetics be re-evaluated and revised. The following tasks summarize the effort associated with this additional work:

Task 25.1 – Aesthetic Coordination

\$3,240

Dokken Engineering will coordinate with the City of Eastvale, City of Jurupa Valley, Caltrans, and the County to obtain consensus on revised aesthetic features. This coordination, which consists of email communications, phone conversations/conference calls, and in-person meetings, is needed to determine opinions, obtain feedback, facilitate discussions, and receive further direction. For meetings attended, Dokken Engineering will prepare meeting minutes to document decisions made and action items needed.

Task 25.2 – Renderings/Exhibits & Cost Estimates

\$29,362

To assist in facilitating the decision-making process, Dokken Engineering will prepare exhibits, renderings, and cost estimates of the aesthetics being considered. Exhibits and renderings include:

- Elevation views with wagon wheels and community identifiers on all or part of the bridge
- Elevation views with community identifiers embedded in the bridge girder, attached to the pilasters, and on stand-alone monuments off the bridge

- Elevation views with community identifiers in various positions on the fence in script font and three different colors
- Elevation views with community identifiers on the bridge barrier in large script and serif font
- Elevation views of sample lighting types
- Elevation and cross section views of 5 selected light types
- Renderings of the community identifier using 4 illumination types
- Elevation and cross section view of final selected aesthetics

All renderings will be mounted on foam core boards and delivered to the County for presentation purposes. For each of the renderings above, a cost estimate for construction and maintenance will be prepared and presented to the stakeholders.

Deliverable: Renderings/Exhibits and Cost Estimates

Task 25.3 – Aesthetic Design Modifications \$16,540

Once consensus is reached regarding the various aesthetic elements to be incorporated on the bridge, Dokken Engineering will modify the design plans, specifications, and estimate to include the agreed upon elements, including lighting, fencing, lettering, and structural concrete formwork. These modifications will be included in the 95% submittal and will be carried through to subsequent submittals.

Deliverable: Updated PS&E

TASK 26.0 DESIGN STANDARDS

Task 26.1 – Update to 2015 Design Standards/Criteria \$16,775

The original plans, specifications, and estimate were prepared in accordance with Caltrans' 2010 Standard Plans, 2010 Standard Special Provisions, and 2010 Highway Design Manual. In 2015, Caltrans updated their Standard Plans, Standard Special Provisions, and Highway Design Manual and required that projects reflect these updates within the plans, specifications, and estimates already prepared. Dokken will update the project plans, specifications, and estimate to be consistent with the standards established in 2015.

Deliverable: Updated PS&E

Task 26.2 – HDM Exemption \$6,169

In December 2016, Caltrans implemented several changes to their Highway Design Manual. These changes impacted the superelevation, auxiliary lane length, and CHP pullout placement. It was determined that incorporating these changes into the interchange design would result in delays to bidding and construction. As a result, Dokken Engineering will prepare an HDM Exemption submittal. A draft Exemption package will be submitted to Caltrans for review. Comments will be addressed and the package will be updated accordingly. Dokken Engineering will continue to coordinate with Caltrans until approval is obtained.

Deliverable: HDM Exemption Package

TASK 27.0 CONSTRUCTION MANAGEMENT SUPPORT

Task 27.1 – CM Procurement \$3,600

Dokken Engineering will assist the County with the procurement of a Construction Management firm by performing the following tasks:

- Review the Construction Management Request for Proposal and provide comments, suggestions, and recommendations.
- Prepare/provide supporting materials for the RFP.
- Attend the pre-proposal meeting and prepare/deliver a project presentation.
- Address project questions during the proposal period.

TASK 28.0 COORDINATION WITH OTHER PROJECTS

Task 28.1 – I-15 Express Lane Coordination \$15,590

The Riverside County Transportation Commission is preparing to construct the I-15 Express Lanes Project. In the past, Dokken has coordinated with the Express Lane design team to ensure compatibility between the interchange design and the express lanes. Due to the acceleration of the interchange construction schedule, it has been determined that the two projects will be constructed at the same time, requiring significant coordination. As part of this task, Dokken will perform the following tasks:

- Attend meetings with the RCTC team to discuss construction coordination issues.
- Prepare/provide project materials/information to the RCTC team.
- Prepare exhibits and/or presentations for the County and/or RCTC team related to the Limonite interchange.
- Prepare revisions to the plans, specifications, and estimates as required to match the latest RCTC design and to facilitate construction coordination.

TASK 29.0 SCHEDULE ACCELERATION

Task 29.1 – Construction Acceleration Strategies \$172,185

To accommodate the County's proposed construction schedule, Dokken will evaluate various methods of expediting the construction process, including alternative structure types, modified staging, and contractor incentives. Dokken will summarize the findings of these strategies and attend a meeting with the County and Caltrans to discuss the results.

Dokken will further support the exploration of these concepts with the selected Construction Management firm and the I-15 Express Lanes teams as needed. It is anticipated that the result of this effort will require the revision of the staging plans. Tasks required to address the change in staging include:

- Multiple coordination focus meetings with Caltrans to obtain approval of the updated staging change.
- Traffic modeling to determine the number/lineal feet of ramp lanes needed to avoid negative impacts to the main line.
- Preparation of revised staging plans (50 sheets), quantities, and estimates, including grading by stage.
- Updates to temporary drainage and temporary water pollution control plans (60 sheets), quantities, and estimates.

Deliverable: Updated staging, temporary drainage, and temporary water pollution control plans, quantities, and estimates

PHASE III

TASK 22.0 CONSTRUCTION BID SUPPORT (WBS 255.20)

Task 22.1 – Design Support During Bidding \$1,208

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. Up to 16 hours have been

included. Additional services exceeding 16 hours will be charged on an extra services basis in accordance with the rates shown in the attached spreadsheet.

PHASE IV

TASK 23.0 DESIGN SUPPORT DURING CONSTRUCTION (WBS 270.20.95)

Task 23.7 – Landscape/Irrigation Design Support \$5,047

This task provides for construction support by the Landscape Architect regarding construction 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. The level of effort provided in the fee schedule is an estimate only and all work shall be performed on a time and materials basis in accordance with the hourly rates shown for key staff. Additional services exceeding the hours shown will be charged on an extra services basis once approved by the agency.

Contingency (10%) \$41,871

Dokken Engineering estimates the total cost of the aforementioned tasks to be approximately **\$460,578**. A summary of this amendment request by primary task is provided below:

AMENDMENT SUMMARY

PHASE	TASK	TASK DESCRIPTION	COST
I	17.1	CEQA/NEPA Revalidation	\$5,474
		Subtotal	\$5,474
II	18.5	Landscape/Irrigation	\$79,230
	21.1	Utility Coordination	\$11,779
	24.1	Phasing Concept Development	\$45,650
	24.2	Phasing Traffic Analysis	\$5,337
	25.1	Aesthetic Coordination	\$3,240
	25.2	Renderings/Exhibits & Cost Estimates	\$29,361
	25.3	Aesthetic Design Modifications	\$16,540
	26.1	Update to 2015 Design Standards/Criteria	\$16,775
	26.2	HDM Exemption	\$6,169
	27.1	CM Procurement	\$3,600
	28.1	I-15 Express Lane Coordination	\$15,590
	29.1	Construction Acceleration Strategies	\$172,185
		Subtotal	\$405,457
III	22.1	Design Support During Bidding	\$1,968
		Subtotal	\$1,968
IV	23.7	Landscape/Irrigation Construction Support	\$5,808
		Subtotal	\$5,808
Contingency			\$41,871
GRAND TOTAL			\$460,578

Mr. John Marcinek


January 16, 2018

Page 7

Additional detail is provided in Attachment C2 Cost Proposal. 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".

Pamela Dalcin-Walling, PE
Project Manager

Attachments: Attachment 1: Amendment 2 Cost Estimate

**AMENDMENT 2
FEE PROPOSAL WORKSHEETS**

Limonte Avenue at Interstate 15 Fee Proposal Summary

January 15, 2018

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
Dokken Engineering Prime	\$ 5,473.87	\$ 330,979.75	\$ 719.92	\$ 719.92	\$ 337,893.46
David Evans and Associates Landscape Architecture		\$ 74,476.15	\$ 1,248.47	\$ 5,087.99	\$ 80,812.61
TOTAL	\$ 5,474	\$ 405,456	\$ 1,968	\$ 5,808	\$ 418,706

- Phase I **PA&ED**
- Phase II **PS&E**
- Phase III **Bidding Support**
- Phase IV **Construction Support**

FEE PROPOSAL WORKSHEET

COMPANY: Dokken Engineering	SCOPE OF WORK: Project Summary	PHASE: All Phases
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Pamela Dalcin-Walling	Project Manager	207	@	\$58.00	\$12,006.00
Juann Ramos	Project Engineer	119	@	\$67.00	\$7,973.00
Charles Tornaci	Structures Engineer	116	@	\$56.00	\$6,496.00
George Dunn	Senior Traffic Engineer	46	@	\$65.00	\$2,990.00
Staff	Senior Right of Way Specialist			\$50.00	
Staff	Senior Engineer	130	@	\$55.00	\$7,150.00
Staff	Associate Engineer	584	@	\$40.00	\$23,360.00
Staff	Assistant Engineer	1,112	@	\$29.00	\$32,248.00
Namat Hosseinion	Environmental Manager	2	@	\$68.00	\$136.00
Staff	Senior Environmental Planner			\$47.00	
Staff	Associate Environmental Planner			\$36.00	
Staff	Environmental Planner / Biologist			\$29.00	
Staff	Environmental Planner / Archaeolo	40	@	\$32.00	\$1,280.00
Staff	Engineering Technician	610	@	\$25.00	\$15,250.00
Staff	Senior CADD			\$53.00	
TOTAL HOURS		2,966		AL DIRECT LABOR	\$108,889.00

MULTIPLIERS

ESCALATION @	5.00%	(Rates Vary by Phase)	
OVERHEAD @	182.10%	(of Direct Labor + Escalation)	\$198,286.87
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additive:	\$30,717.59
TOTAL MULTIPLIERS			\$229,004.46

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
TOTAL ODC'S				

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
David Evans and Associates	\$25,870.00	\$54,233.61	\$709.00	\$80,812.61
TOTAL SUBCONSULTANT SERVICES				\$80,812.61
TOTAL				\$418,706.07

FEE PROPOSAL WORKSHEET

COMPANY: Dokken Engineering	SCOPE OF WORK: PA&ED	PHASE: Phase I
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Pamela Dalcin-Walling	Project Manager	6	@	\$348.00
Juann Ramos	Project Engineer			\$67.00
Charles Tornaci	Structures Engineer			\$56.00
George Dunn	Senior Traffic Engineer			\$65.00
Staff	Senior Right of Way Specialist			\$50.00
Staff	Senior Engineer			\$55.00
Staff	Associate Engineer			\$40.00
Staff	Assistant Engineer			\$29.00
Namat Hosseinion	Environmental Manager	2	@	\$136.00
Staff	Senior Environmental Planner			\$47.00
Staff	Associate Environmental Planner			\$36.00
Staff	Environmental Planner / Biologist			\$29.00
Staff	Environmental Planner / Archaeolo	40	@	\$1,280.00
Staff	Engineering Technician			\$25.00
TOTAL HOURS		48		AL DIRECT LABOR \$1,764.00

MULTIPLIERS

ESCALATION @		(of Direct Labor)		
OVERHEAD @	182.10%	(of Direct Labor + Escalation)		\$3,212.24
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)		
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additive:		\$497.62
TOTAL MULTIPLIERS				\$3,709.87

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT

TOTAL ODC'S

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
David Evans and Associates				

TOTAL SUBCONSULTANT SERVICES

TOTAL \$5,473.87

FEE PROPOSAL WORKSHEET

COMPANY: Dokken Engineering	SCOPE OF WORK: PS&E	PHASE: Phase II
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Pamela Dalcin-Walling	Project Manager	193	@	\$58.00	\$11,194.00
Juann Ramos	Project Engineer	119	@	\$67.00	\$7,973.00
Charles Tornaci	Structures Engineer	116	@	\$56.00	\$6,496.00
George Dunn	Senior Traffic Engineer	46	@	\$65.00	\$2,990.00
Staff	Senior Right of Way Specialist			\$50.00	
Staff	Senior Engineer	130	@	\$55.00	\$7,150.00
Staff	Associate Engineer	584	@	\$40.00	\$23,360.00
Staff	Assistant Engineer	1,112	@	\$29.00	\$32,248.00
Namat Hosseinion	Environmental Manager			\$68.00	
Staff	Senior Environmental Planner			\$47.00	
Staff	Associate Environmental Planner			\$36.00	
Staff	Environmental Planner / Biologist			\$29.00	
Staff	Environmental Planner / Archaeolo			\$32.00	
Staff	Engineering Technician	610	@	\$25.00	\$15,250.00
TOTAL HOURS		2,910		AL DIRECT LABOR	\$106,661.00

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	182.10%	(of Direct Labor + Escalation)	\$194,229.68
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additive:	\$30,089.07
TOTAL MULTIPLIERS			\$224,318.75

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
TOTAL ODC'S				

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC'S	TOTAL
David Evans and Associates	\$23,850.00	\$49,998.90	\$627.25	\$74,476.15
TOTAL SUBCONSULTANT SERVICES				\$74,476.15
TOTAL				\$405,455.90

FEE PROPOSAL WORKSHEET

COMPANY: Dokken Engineering	SCOPE OF WORK: Bidding Support	PHASE: Phase III
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Pamela Dalcin-Walling	Project Manager	4	@ \$58.00	\$232.00
Juann Ramos	Project Engineer		\$67.00	
Charles Tornaci	Structures Engineer		\$56.00	
George Dunn	Senior Traffic Engineer		\$65.00	
Staff	Senior Right of Way Specialist		\$50.00	
Staff	Senior Engineer		\$55.00	
Staff	Associate Engineer		\$40.00	
Staff	Assistant Engineer		\$29.00	
Namat Hosseinion	Environmental Manager		\$68.00	
Staff	Senior Environmental Planner		\$47.00	
Staff	Associate Environmental Planner		\$36.00	
Staff	Environmental Planner / Biologist		\$29.00	
Staff	Environmental Planner / Archaeolo		\$32.00	
Staff	Engineering Technician		\$25.00	
TOTAL HOURS		4	AL DIRECT LABOR	\$232.00

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	182.10%	(of Direct Labor + Escalation)	\$422.47
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additive:	\$65.45
TOTAL MULTIPLIERS			\$487.92

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT

TOTAL ODC'S

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
David Evans and Associates	\$390.00	\$817.59	\$40.88	\$1,248.47

TOTAL SUBCONSULTANT SERVICES **\$1,248.47**

TOTAL **\$1,968.39**

FEE PROPOSAL WORKSHEET

COMPANY: Dokken Engineering	SCOPE OF WORK: Construction Support	PHASE: Phase IV
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Pamela Dalcin-Walling	Project Manager	4	@ \$58.00	\$232.00
Juann Ramos	Project Engineer		\$67.00	
Charles Tornaci	Structures Engineer		\$56.00	
George Dunn	Senior Traffic Engineer		\$65.00	
Staff	Senior Right of Way Specialist		\$50.00	
Staff	Senior Engineer		\$55.00	
Staff	Associate Engineer		\$40.00	
Staff	Assistant Engineer		\$29.00	
Namat Hosseinion	Environmental Manager		\$68.00	
Staff	Senior Environmental Planner		\$47.00	
Staff	Associate Environmental Planner		\$36.00	
Staff	Environmental Planner / Biologist		\$29.00	
Staff	Environmental Planner / Archaeolo		\$32.00	
Staff	Engineering Technician		\$25.00	
TOTAL HOURS		4	AL DIRECT LABOR	\$232.00

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	182.10%	(of Direct Labor + Escalation)	\$422.47
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additive:	\$65.45
TOTAL MULTIPLIERS			\$487.92

OTHER DIRECT COSTS

... Billed at Actual Cost ...

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT

TOTAL ODC'S

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
David Evans and Associates	\$1,630.00	\$3,417.12	\$40.88	\$5,087.99

TOTAL SUBCONSULTANT SERVICES **\$5,087.99**

TOTAL **\$5,807.91**

MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Dokken Engineering	Manhour Summary	All Phases
PROJECT:		DATE:
Limonite Avenue at Interstate 15		January 15, 2018

TOTAL	PROJECT MANAGER	\$179.98	207	119	116	46	130	584	1,112	2	40	610	2,966	5,932
	PROJECT ENGINEER	\$207.91	119	116	46	130	584	1,112	2	40	610	2,966	5,932	
	STRUCTURES ENGINEER	\$173.77	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	PROJECT MANAGER	\$473.77	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	PROJECT ENGINEER	\$201.70	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	SENIOR TRAFFIC ENGINEER	\$155.16	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	SENIOR RIGHT OF WAY SPECIALIST	\$170.67	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	SENIOR ENGINEER	\$124.12	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	ASSOCIATE ENGINEER	\$89.99	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	ASSISTANT ENGINEER	\$211.01	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	SENIOR ENVIRONMENTAL MANAGER	\$145.85	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	ENVIRONMENTAL PLANNER / BIOLOGIST	\$111.71	116	116	46	130	584	1,112	2	40	610	2,966	5,932	
	ENVIRONMENTAL PLANNER / ARCHAEOLOGIST	\$89.99	116	116	46	130	584	1,112	2	40	610	2,966	5,932	

PHASE I	6	2	40	96
PHASE II	193	119	116	46
PHASE III	4	4	4	8
PHASE IV	4	4	4	8

MANHOUR WORKSHEET

COMPANY: **Dokken Engineering**
 PROJECT: **Limonite Avenue at Interstate 15**

SCOPE OF WORK: **PA&ED**
 PHASE: **Phase I**
 DATE: **January 15, 2018**

PROFESSIONAL CATEGORY	RATE	MANHOURS	TOTAL COST
PROJECT MANAGER	\$207.91	6	\$1,247.46
PROJECT ENGINEER	\$173.77		
STRUCTURES ENGINEER	\$201.70		
SENIOR TRAFFIC ENGINEER	\$155.16		
SENIOR RIGHT OF WAY SPECIALIST	\$170.57		
SENIOR ENGINEER	\$124.12		
ASSOCIATE ENGINEER	\$89.99		
ASSISTANT ENGINEER	\$211.01	2	\$422.02
ENVIRONMENTAL MANAGER	\$145.85		
SENIOR ENVIRONMENTAL PLANNER	\$111.71		
ENVIRONMENTAL PLANNER	\$89.99		
ASSOCIATE ENVIRONMENTAL PLANNER	\$99.30	40	\$3,972.00
ENVIRONMENTAL PLANNER / BIOLOGIST			
ENVIRONMENTAL PLANNER / ARCHITECT			
ENGINEERING TECHNICIAN		48	\$2,304.00

Total Manhours

48

40

2

6

17.0 ENVIRONMENTAL REVALIDATION

17.1 CEQA/NEPA Revalidation

6

2

40

48

\$ 5,474

MANHOURLY WORKSHEET

COMPANY: **Dokken Engineering**
 PROJECT: **Limonite Avenue at Interstate 15**

SCOPE OF WORK: **PS&E**
 PHASE: **Phase II**
 DATE: **January 15, 2018**

TASK	PROJECT MANAGER	PROJECT ENGINEER	STRUCTURES ENGINEER	SENIOR TRAFFIC ENGINEER	SENIOR RIGHT OF WAY SPECIALIST	SENIOR ENGINEER	ASSOCIATE ENGINEER	ENVIRONMENTAL ASSISTANT ENGINEER	ENVIRONMENTAL MANAGER	SENIOR ENVIRONMENTAL PLANNER	ENVIRONMENTAL PLANNER / BIOLOGIST	ENVIRONMENTAL PLANNER / ARCHITECTOLOGIST	ENGINEERING TECHNICIAN	HOURS	COST
	\$179.96	\$207.91	\$173.77	\$201.70	\$155.16	\$170.67	\$124.12	\$39.99	\$211.01	\$145.85	\$111.71	\$89.99	\$99.30	\$7.58	

Total Manhours 193 119 116 46 130 584 1,112 610 2,910

18.0 ROADWAY PS&E															
18.5 Landscape/Irrigation	8	4					20							32	\$ 4,754
21.0 ENGINEERING SUPPORT															
21.1 Utility Coordination	12	12					40	24						88	\$ 11,779
24.0 PHASING ANALYSIS															
24.1 Phasing Concept Development	16	27	4				40	350						437	\$ 45,650
24.2 Phasing Traffic Analysis	5			22										27	\$ 5,337
25.0 BRIDGE AESTHETICS															
25.1 Aesthetic Coordination	18													18	\$ 3,240
25.2 Renderings/Exhibits & Cost Estimates	50		52		20	20	20						70	212	\$ 29,362
25.3 Aesthetic Design Modifications			40		10	24	20						40	134	\$ 16,540
26.0 DESIGN STANDARDS															
26.1 Update to 2015 Design Standards/Criteria	4	12			20	20	60	30						126	\$ 16,775
26.2 HDM Exemption	4	8				16	20							48	\$ 6,169
27.0 CONSTRUCTION MANAGEMENT SUPPORT															
27.1 CM Procurement	20													20	\$ 3,600
28.0 COORDINATION WITH OTHER PROJECTS															
28.1 I-15 Express Lane Coordination	16	16	12			24	48							116	\$ 15,590
29.0 SCHEDULE ACCELERATION															
29.1 Construction Acceleration Strategies	40	40	8	24	80	340	620						500	1,652	\$ 172,185

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: David Evans and Associates	SCOPE OF WORK: Landscape Architecture	PHASE: All Phases
PROJECT: Limonite Avenue at Interstate 15		DATE: #####

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Kim Rhodes	QA/QC	30	@ \$66.00	\$1,980.00	
Almabeth Anderson	Project Manager	84	@ \$45.50	\$3,822.00	
Jon-sen Oen	Irrigation Designer	234	@ \$38.00	\$8,892.00	
Danny Wang	Landscape Designer	214	@ \$33.00	\$7,062.00	
Anna Flores	Administration	18	@ \$33.00	\$594.00	
Zaneta Kam	Landscape CAD	160	@ \$22.00	\$3,520.00	
		TOTAL HOURS	740	AL DIRECT LABOR	\$25,870.00

MULTIPLIERS

ESCALATION @		(Rates Vary by Phase)	
OVERHEAD @	181.49%	(of Direct Labor + Escalation)	\$46,951.46
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additive)	\$7,282.15
TOTAL MULTIPLIERS			\$54,233.61

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Graphics/Printing	1	EA	@ \$400.00	\$400.00
Postage/Overnight Shipping	4	EA	@ \$50.00	\$200.00
Mileage	200	MILES	@ \$0.55	\$109.00
TOTAL ODC'S				\$709.00

TOTAL \$80,812.61

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: David Evans and Associates	SCOPE OF WORK: Landscape Architecture	PHASE: Phase II
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Kim Rhodes	QA/QC	26	@ \$66.00	\$1,716.00
Almabeth Anderson	Project Manager	60	@ \$45.50	\$2,730.00
Jon-sen Oen	Irrigation Designer	220	@ \$38.00	\$8,360.00
Danny Wang	Landscape Designer	210	@ \$33.00	\$6,930.00
Anna Flores	Administration	18	@ \$33.00	\$594.00
Zaneta Kam	Landscape CAD	160	@ \$22.00	\$3,520.00
TOTAL HOURS		694	AL DIRECT LABOR	\$23,850.00

MULTIPLIERS

ESCALATION @	(of Direct Labor)	
OVERHEAD @	181.49% (of Direct Labor + Escalation)	\$43,285.37
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additive)	\$6,713.54
TOTAL MULTIPLIERS		\$49,998.90

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Graphics/Printing	1	EA @	\$400.00	\$400.00
Postage/Overnight Shipping	4	EA @	\$50.00	\$200.00
Mileage	50	MILES @	\$0.55	\$27.25
TOTAL ODC'S				\$627.25

TOTAL \$74,476.15

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: David Evans and Associates	SCOPE OF WORK: Landscape Architecture	PHASE: Phase III
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Kim Rhodes	QA/QC	2	@ \$66.00	\$132.00
Almabeth Anderson	Project Manager	4	@ \$45.50	\$182.00
Jon-sen Oen	Irrigation Designer	2	@ \$38.00	\$76.00
Danny Wang	Landscape Designer		\$33.00	
Anna Flores	Administration		\$33.00	
Zaneta Kam	Landscape CAD		\$22.00	
TOTAL HOURS		8	AL DIRECT LABOR	\$390.00

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	181.49%	(of Direct Labor + Escalation)	\$707.81
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additive)	\$109.78
TOTAL MULTIPLIERS			\$817.59

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Graphics/Printing		EA	\$400.00	
Postage/Overnight Shipping		EA	\$50.00	
Mileage	75	MILES @	\$0.55	\$40.88
TOTAL ODC'S				\$40.88

TOTAL \$1,248.47

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: David Evans and Associates	SCOPE OF WORK: Landscape Architecture	PHASE: Phase IV
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Kim Rhodes	QA/QC	2	@ \$66.00	\$132.00
Almabeth Anderson	Project Manager	20	@ \$45.50	\$910.00
Jon-sen Oen	Irrigation Designer	12	@ \$38.00	\$456.00
Danny Wang	Landscape Designer	4	@ \$33.00	\$132.00
Anna Flores	Administration		\$33.00	
Zaneta Kam	Landscape CAD		\$22.00	
TOTAL HOURS		38	AL DIRECT LABOR	\$1,630.00

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	181.49%	(of Direct Labor + Escalation)	\$2,958.29
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additive)	\$458.83
TOTAL MULTIPLIERS			\$3,417.12

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Graphics/Printing		EA	\$400.00	
Postage/Overnight Shipping		EA	\$50.00	
Mileage	75	MILES @	\$0.55	\$40.88
TOTAL ODC'S				\$40.88

TOTAL \$5,087.99

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: David Evans and Associates	SCOPE OF WORK: Landscape Architecture	PHASE: All Phases
PROJECT: Limonite Avenue at Interstate 15		DATE: January 15, 2018

TASK	QA/QC	PROJECT MANAGER	IRRIGATION DESIGNER	LANDSCAPE DESIGNER	ADMINISTRATION	LANDSCAPE CAD	HOURS
	30	84	234	214	18	160	740

\$204.36 \$140.89 \$117.66 \$102.18 \$102.18 \$68.12

PHASE TOTALS

PHASE I	26	60	220	210	18	160	694
PHASE II	2	4	2				8
PHASE III	2	20	12	4			38

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY:

David Evans and Associates

PROJECT:

Limonite Avenue at Interstate 15

SCOPE OF WORK:

Landscape Architecture

PHASE:

Phase IV

DATE:

January 15, 2018

TASK	CAD	PROJECT MANAGER	IRRIGATION DESIGNER	LANDSCAPE DESIGNER	ADMINISTRATION	LANDSCAPE CAD	HOURS	COST
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\$204.36 \$140.89 \$117.66 \$102.18 \$102.18 \$102.18 \$68.12

Total Manhours

38

23.0 DESIGN SUPPORT DURING CONSTRUCTION

23.7 Landscape/Irrigation Construction Support

2

20

12

4

38

\$

5,047