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



**MEETING DATE:** 

Tuesday, September 24, 2019

FROM: TLMA-TRANSPORTATION:

SUBJECT: TRANSPORTATION AND LAND MANAGEMENT AGENCY/ TRANSPORTATION DEPARTMENT: Approval of Amendment 1 to the Engineering Services Agreement by and between the County of Riverside and Kleinfelder Group, Inc. for the Replacement of the Mission Boulevard Bridge at Santa Ana River. All Covenants Set Forth in the Agreement Shall be Completed by December 31, 2025. District 2. [\$3,000,070 Total - 88.53% Federal Funds, 4.93% City of Jurupa Valley, and 6.54% City of Riverside]

#### **RECOMMENDED MOTION:** That the Board of Supervisors:

1. Approve Amendment 1 to the Engineering Services Agreement between the County of Riverside and Kleinfelder Group Inc. for the Replacement of the Mission Boulevard Bridge at Santa Ana River in the amount of \$3,000,070 for FY 19/20-25/26 and authorize the Chairman of the Board to execute the same.

**ACTION:4/5 Vote Required, Policy** 

MINUTES OF THE BOARD OF SUPERVISORS

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

Ayes:

Jeffries, Spiegel, Washington, Perez and Hewitt

Nays:

None

Absent:

None

Date:

September 24, 2019

XC:

Transp.

2 22

Kecia R. Harper

#### 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	\$1,300,000	\$1,700,070	\$ 3,000,070	\$0
NET COUNTY COST	\$0	\$0	\$0	\$ 0
SOURCE OF FUNDS (88.53%); City of Jurupa Nare no General Funds use	ere	Budget Adjustment: No		
			For Fiscal Ye	ar: 19/20-25/26

C.E.O. RECOMMENDATION: Approve

#### **BACKGROUND:**

#### Summary

The County of Riverside (County) in cooperation with the cities of Jurupa Valley and Riverside are proposing to replace the existing Mission Boulevard Bridge over the Santa Ana River, with a new bridge to enhance safety and improve traffic circulation. The Mission Boulevard Bridge is located within the City of Jurupa Valley and the City of Riverside near Mount Rubidoux.

On November 3, 2015, Agenda Item 3.23, the County Board of Supervisors executed an Engineering Services Agreement for the Replacement of the Mission Boulevard Bridge over the Santa Ana River, between the County and Kleinfelder Group, Inc. to complete the preliminary engineering and environmental clearance for this project. The California Environmental Quality Act (CEQA) document was adopted and approved on December 11, 2018. The National Environmental Policy Act (NEPA) document was adopted and approved on July 24, 2019.

Amendment 1 of the Engineering Services Agreement will add geotechnical investigations, environmental permitting, final design, preparation of bid documents, and design support during construction advertisement. The Amendment 1 to the Engineering Services Agreement provides the terms, conditions, and a detailed scope of work including the negotiated fee of \$3,000,070 for engineering services and environmental work to complete the work of design through construction.

#### **Impact on Residents and Businesses**

Informal public information meetings will be held as necessary during the development of the project to keep the public informed. The project is expected to have minimum impact on the surrounding environment and the community during development and construction. The replacement bridge will be designed in accordance with the latest state of the art bridge design criteria.

#### SUPPLEMENTAL:

#### Additional Fiscal Information

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

The consultant's proposed fee for Amendment 1 Scope of Work is \$3,000,070. It will be funded with federal 88.53% HBP funds with 11.47% of local matching funds from the City of Jurupa Valley and the City of Riverside. The contract expiration date is December 31, 2025.

Original Contract for - Preliminary and Environmental Documentation \$1,694,939 Amendment 1 for - Final Design to Construction \$3,000,070

Total Amended Contract: \$4,695,009

Work Order No.: B3-0528

#### **Contract History and Price Reasonableness**

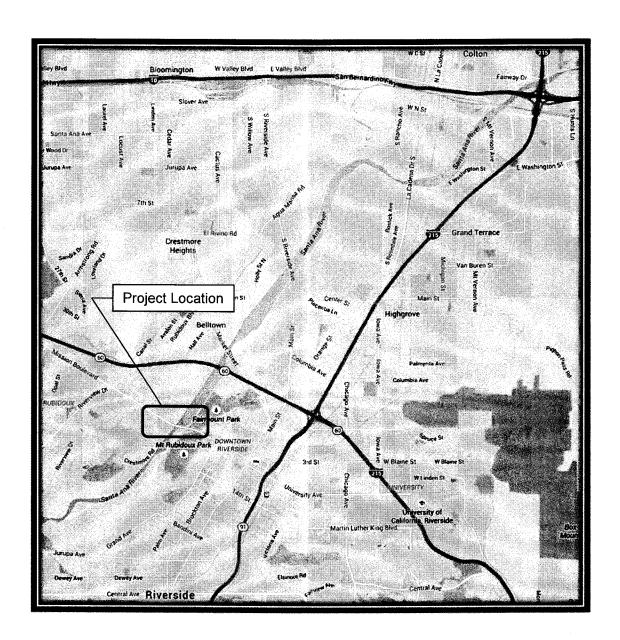
The consultant's fee is consistent with consultant work performed for other county projects of similar scope and complexity.

#### **ATTACHMENTS:**

Vicinity Map
Amendment 1

ason Farin Senior Management Analyst 9/17/2019 Gregory V. Priapios, Director County Counsel 9/12/2019

# Mission Boulevard Bridge Replacement Project at Santa Ana River



**VICINITY MAP** 

#### Amendment 1 to Engineering Services Agreement

#### For Replacement of the Mission Boulevard Bridge at Santa Ana River

(Bridge No. 56C-0071)

#### **Between County of Riverside Transportation Department**

#### And Kleinfelder Group Inc.

This Amendment 1 (hereinafter "AMENDMENT") to a contract is made and entered into as of this 244 day of Lipseller 2019, by and between the County of Riverside, a political subdivision of the State of California (hereinafter "COUNTY"), and Kleinfelder Group Inc. (hereinafter "ENGINEER").

#### **RECITALS**

- A. COUNTY and ENGINEER have entered in an agreement entitled "Engineering Services Agreement for Replacement Mission Boulevard Bridge at Santa Ana River (Bridge No. 56C-0071)" between County of Riverside Transportation Department and Kleinfelder Group Inc. that is dated November 3, 2015, Item 3.23 (hereinafter the "CONTRACT"). The CONTRACT provides the terms and conditions, scope of work, schedule and budget for the performance of professional and technical services necessary to complete the Phase I of the "Mission Boulevard Bridge Replacement Project at Santa Ana River" (hereinafter "PROJECT"), which includes the preparation of a Preliminary Engineering Report and the environmental documentation to environmentally clear the PROJECT including widening and reconstruction of the approach roadways connecting to the new bridge. The engineering services for the remaining three phases of the project to complete plans, specifications, and cost estimate (PS&E) in Phase II, design services during the bid process in Phase III, and design services during construction in Phase IV are deferred to a future agreement.
- B. Appendix A of the original CONTRACT provides the detailed Scope of Services for performing the Phase I tasks to complete the Preliminary Engineering and Environmental Documentation (PA/ED) to clear the project and obtaining the environmental approval.
- C. Appendix B Article BI of the CONTRACT establishes the time period for performing the scope of services detailed in Appendix A. The terms and conditions specify that all covenants set forth in the original CONTRACT shall be completed by November 2, 2019.
- $\textbf{D.} \ \ \textbf{Appendix} \ \textbf{C} \bullet \textbf{Article} \ \textbf{CI} \ \text{of the CONTRACT} \ \text{establishes the Elements of Compensation}. \ \ \textbf{Appendix} \ \textbf{C} \bullet \textbf{Article}$

CII, Subsection B provides the Position Maximum Hourly Rates and allows the ENGINEER the opportunity to request rate adjustments on an annual basis after the first three (3) years of the original CONTRACT. Appendix C • Article CV is the original negotiated cost proposal for Phase I services with a total amount of \$1,694,939.00 with no contingency.

H. The AMENDMENT shall also add the remaining phases of the PROJECT including engineering tasks for completion of the final design, plans, specifications, and cost estimate (PS&E) in Phase II, design services during the bid process in Phase III, and design services during construction in Phase IV.

#### **AGREEMENT**

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

- 1. The AMENDMENT adds the Engineering Services for the remaining phases of the PROJECT including engineering tasks for completion of the final design, plans, specifications, and cost estimate (PS&E) in Phase II, design services during the bid process in Phase III, and design services during construction in Phase IV to successfully deliver the PROJECT with a Notice of Completion (NOC) on or before December 31, 2025.
- 2. The scope of services for the new added phases, i.e., Phase II, Phase III, and Phase IV are provided in detail in Amendment 1, Appendix 1A, which is attached hereto and incorporated herein.
- 3. The November 2, 2019 CONTRACT expiration date established in Appendix B Article BI of the original CONTRACT is revised. All covenants set forth in the amended CONTRACT shall be completed by December 31, 2025. The revised PROJECT schedule including the new added phases is provided in Amendment 1, Appendix 1B, which is attached hereto and incorporated herein.
- 4. The Amendment 1, Appendix 1C, which is attached hereto and incorporated herein, provides the details of the negotiated fee proposal to perform the scope of services for the new added phases, i.e., Phase II, Phase III, and Phase IV. The total fee for the new added phases is \$3,000,070. The total original CONTRACT amount of \$1,694,939 as established in Article CV Cost Proposal of the original CONTRACT is increased by \$3,000,070 to \$4,695,009 for the amended CONTRACT. The Appendix C Article CI, Subsection B Fixed Fee identifies the Total Fixed Fee payable to the ENGINEER as \$44,227.80. This amount has been increased to a total of \$213,133.71 commensurate with the increased scope of work in in this AMENDMENT. The restriction of no rate adjustments on an annual basis for the first three (3) years of the original CONTRACT specified in Appendix C Article CII, Subsection B is removed. The billing rates including the Indirect Cost Rates (ICR) as established in Appendix 1C are hereby approved.

ENGINEER is allowed to request annual Position Hourly Rate adjustments subject to COUNTY PROJECT
MANAGER's approval in writing. Position Hourly Rates requested shall not exceed the Maximum Position
Hourly Rates specified in Amendment 1, Appendix 1D, which is attached hereto and incorporated herein,
unless approved by COUNTY PROJECT MANAGER in writing.

- 6. The Mandatory Fiscal and Federal Provisions are included throughout the original CONTRACT language. However, the current Local Assistance Procedures require these provisions to appear verbatim in consultant contract language. So, the current Mandatory Fiscal and Federal Provisions (Verbatim) have been attached hereto in Appendix E and incorporated herein. In addition to the provisions set forth under the original CONTRACT, ENGINEER and the subconsultants shall comply with Appendix E Mandatory Fiscal and Federal Provisions (Verbatim). If any provisions set forth under this amended CONTRACT is in conflict with Appendix E, Appendix E provisions shall prevail.
- 7. Except to the extent specifically modified or amended hereunder, all of the term, covenants and conditions of the original CONTRACT shall remain in full force and effect between the parties hereto.
- IN WITNESS HEREOF, the parties hereto have caused this AMENDMENT to the CONTRACT to be duly executed this day and year first written above.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

1	APPROVALS	
2	COUNTY Approvals	ENGINEER Approvals
3	RECOMMENDED FOR APPROVAL:	ENGINEER:
4		
5		
6	Dated: 9-16-19	Dated 8/23//
7	Patricia Romo	X John Moossazadeh
8	Director of Transportation	χ Senior Vice President
9		TITLE
10	APPROVED AS TO FORM:	ENGINEER:
11		
12		
13	Dated: 9 - 1(1/1)	Dated:
14	Gregory Priamos	X PRINTED NAME
15	County Counsel	X
16		TITLE
17	APPROVAL BY THE BOARD OF SUPERVISORS	
18		
19		
20	Dated: SEP 2 4 2019	
21	KEVIN JEFFRIES PRINTED NAME	
22	Chairman, Riverside County Board of Supervisors	
23		
24	ATTEST:	
25		
26	LAIMINATAL DOD ! SED O 1 2000	
27	MMarkon, Deputypated: SEP 2 4 2019	
28	KECIA HARPER <del>-IHEM</del>	
29	Clerk of the Board (SEAL)	

CERTIFICATE OF CORPORATE SECRETARY

I hereby certify that I am the duly elected and acting Secretary of Kleinfelder, Inc. (the

"Corporation"), a California corporation duly organized, validly existing and in good standing,

and that the following is a true, accurate transcript of a resolution duly, validly and lawfully

adopted on February 6, 2019 by the Board of Directors of said corporation acting in accordance

with the laws of the state of incorporation.

RESOLVED, that the Board grants John Moossazadeh, Area Manager, full rights

of the Corporation to execute on behalf of the Corporation, and otherwise bind the

Corporation, to all contract and proposal documents related to any contract entered

into with the County of Riverside; and

RESOLVED further, that any and all transactions by and of the officers or

representatives of the Corporation, in its name and for its account, with the County

of Riverside prior to the adoption of these resolutions be, and hereby are, ratified

and approved for all purposes.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of

said corporation this day of August, 2019.

Deborah S. Butera

while & Mrs

Secretary

{SEAL}

#### CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

孨<del>竤甐藡竤蕸蕸竤竤蕸媙竤竤竤竤竤竤竤竤竤竤竤</del> A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. State of California County of San Dieco before me, SAMANTHA SAWYER, NOTARY PUBLIC

Here Insert Name and Title of the Officer Date personally appeared \_\_\_ who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) (s) are subscribed to the within instrument and acknowledged to me that he/she) they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the SAMANTHA RYANNE SAWYER laws of the State of California that the foregoing Notary Public - California San Diego County paragraph is true and correct. Commission # 2230124 My Comm. Expires Feb 2, 2022 WITNESS my hand and official seal. Place Notary Seal and/or Stamp Above Signature of Notary Public - OPTIONAL Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document. **Description of Attached Document** Title or Type of Document: \_\_\_\_\_ Document Date: \_\_\_ \_\_\_\_\_Number of Pages: \_\_\_ Signer(s) Other Than Named Above: \_\_\_\_\_ Capacity(ies) Claimed by Signer(s) Signer's Name: Signer's Name: \_\_\_ □ Corporate Officer – Title(s): \_\_\_\_\_ ☐ Corporate Officer – Title(s): \_\_\_\_ ☐ Partner — ☐ Limited ☐ General ☐ Partner – ☐ Limited ☐ General □ Individual Attorney in Fact □ Individual ☐ Attorney in Fact □ Trustee ☐ Guardian of Conservator □ Trustee ☐ Guardian of Conservator □ Other: □ Other:

LEGALES CONTROL DE CON

Signer is Representing:

Signer is Representing: \_\_\_

### **AMENDMENT 1 • APPENDIX 1A**

**Scope of Services** 

#### **APPENDIX 1A • SCOPE OF SERVICES**

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#### **APPENDIX 1A - SCOPE OF SERVICES**

#### **ARTICLE AI • INTRODUCTION**

On November 3, 2015, Item 3.23, the County of Riverside (COUNTY) and Kleinfelder Group, Inc. (ENGINEER) entered into an agreement (AGREEMENT) entitled "Engineering Services Agreement for Replacement of the Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)." The AGREEMENT provides the terms and conditions, the scope of work, and the budget to perform preliminary engineering, conduct environmental studies, and prepare the environmental documentation (Phase-I) for clearing "the Mission Boulevard Bridge Replacement over the Santa Ana River, including reconstruction of the approach roadways connecting to the new bridge (PROJECT)".

Now, having the Phase I activities successfully completed and the environmental approvals for California Environmental Quality Act (CEQA) and National Environmental Protection Act (NEPA) secured, COUNTY and ENGINEER desire to amend the existing agreement to add the remaining phases of the PROJECT for completing the design activities and constructing the bridge. This Amendment 1 (AMENDMENT) covers the remaining work for completion of the final design, plans, specifications, and cost estimate (PS&E) in Phase-II, design services during the bid process in Phase – III, and design services during construction in Phase-IV of the project.

#### A. STANDARDS

#### Plans, Specifications, and Estimate (PS&E)

Plans and specifications shall be prepared in conformance with COUNTY requirements. As part of the work involved in the preparation of the PS&E, the ENGINEER shall prepare and furnish to COUNTY special provisions for items of work included in the plans which are not covered in the Standard Specifications or CALTRANS-approved SSPs.

Bridge plans shall be prepared in accordance with the current editions of the bridge design specifications, manuals, aids, and CALTRANS guidelines, Division of Structures. COUNTY title blocks shall be used in preparation of bridge plan sheets.

Roadway plans shall be prepared electronically in conformance with the CALTRANS Plan

Preparation Manual and the CALTRANS CADD User's Manual of Instructions. Roadway plans shall be

prepared with MicroStation Version V8i. All roadway plans shall be on single sheet files. Graphic files shall be two-dimensional and shall conform to the CALTRANS data format as defined in CALTRANS CADD User's Manual of Instructions.

One set of plans on mylar and one electronic version on compact disc shall be provided with the final PS&E submittal.

Special Provisions shall be prepared using Microsoft Word conforming to CALTRANS format and content. ENGINEER shall coordinate with COUNTY staff regarding procedures for specification and special provision preparation prior to commencing preparation of specifications. COUNTY Project Manager and the staff will provide the boiler plate special provisions to be reviewed and included with technical special provisions by ENGINEER. COUNTY PROJECT MANAGER will also provide the format to be used for Engineer's Estimate. This format shall be strictly adhered to.

#### **B. KEY PERSONNEL**

The ENGINEER has represented to the COUNTY that certain key personnel will perform the services and if one or more of such personnel should become unavailable, ENGINEER may substitute other personnel of at least equal competence only after prior written approval by the COUNTY PROJECT MANAGER has been secured. The key personnel for performance of this PROJECT are:

Project Manager James Frost

Senior Roadway Engineer Darren Adrian

Senior Structures Engineer Sami Megally

Environmental Team Leader Wendy Davis

#### C. COUNTY RESPONSIBILITIES

The following includes tasks to be completed by the COUNTY:

- Provide all final surveys and aerial mapping
- Provide agency review for design submittals including plans, specifications and estimate
- Provide regulatory agency permitting fees

#### **ARTICLE All • PROJECT ADMINISTRATION**

#### A. DELIVERABLES

The primary deliverables listed below shall be submitted to the COUNTY by ENGINEER. All deliverables will be provided in hard copy format (as identified in the scope for each identified deliverable in this scope of work) unless otherwise noted in this scope of work and in electronic format.

- Project Management Plan (updated for final design)
- Final On-Site Drainage Report
- Final Bridge Hydraulics Report
- Updated Low Impact Development Guidance Standards for Transportation Projects (TPG)
- Concept Storm Water Pollution Prevention Plan (SWPPP)
- Phase II Site Assessment Report
- Draft and Final Materials Report
- Draft and Final Geotechnical Design Report
- Draft and Final Bridge Foundation Report (FFR)
- Right-of-Entry / Encroachment Permits
- Final architectural details for bridge aesthetics
- 3D Simulation of the bridge construction with Stages and Final conditions
- 3D Graphics for architectural treatments
- Section 408 Application Package
- Utility Relocation Letters
- Utility Potholing Summary
- Final Utility Plans
- Draft and Final Technical Specifications

- Draft and Final Engineer's Cost Estimate
- Final Right-of-Way Requirement Map
- Design Exceptions Fact Sheet (updated for final design)
- Final Traffic Management Plan (TMP)
- 65%, 90%, 95%, and Final Bridge, Roadway, Lighting and Landscape Plans
- 65%, 90%, 95%, and Final Structure PS&E Package
- Permit Applications to USACE, CDFW, and RWQCB for geotechnical borings
- Permit Applications to USACE, CDFW, and RWQCB for construction activities
- Quality Control/Quality Assurance Plan (updated for final design)

#### **ARTICLE AIII • PLANNING AND PROJECT DEVELOPMENT**

#### A. RESEARCH AND DATA GATHERING

Existing topographic mapping, photos, reports, maintenance reports, right-of-way maps, "as-built" plans, record maps and surveys, study reports, assessor maps, contract documents, utility index maps, local street improvement/development plans, and other pertinent data will be obtained and reviewed.

ENGINEER will obtain readily available data related to their scope of work. Anticipated agencies are the COUNTY, CALTRANS, City of Riverside, City of Jurupa Valley, RCFC, and impacted utility companies.

#### **B. PROJECT DEVELOPMENT TEAM**

PDT meetings shall be held monthly to resolve issues and to apprise the affected agencies of the progress of the PROJECT.

#### Assumptions:

- Kleinfelder and Kimley-Horn will attend up to 18 PDT meetings.
- 78-week (approximately 18-month) schedule for Phase II work.

#### C. PERMITS

ENGINEER shall identify locations outside the roadway right-of-way where it will be necessary to obtain specific rights-of- entry from affected property owners. The listing of the candidate locations will be furnished to the COUNTY. The COUNTY will contact property owners. ENGINEER will be informed if their support is required to obtain rights-of-entry.

ENGINEER shall support the application of a Section 408 Civil Works review through the USACE. This work includes the development of the permit application with the attachment of relevant project engineering and environmental studies. We have assumed that the environmental reports and studies prepared during the previous PA/ED Phase will be re-issued for the purpose of supporting the 408 permit. ENGINEER shall facilitate meetings with the USACE to describe the project and potential impacts.

Resource agency permitting is included in Article AVI, Section K of this scope of work.

#### Assumptions:

 ENGINEER will identify necessary right-of-entry and specific permits related to their scope of work. These determinations will be derived based on readily available information.

#### D. DESIGN SURVEYS

COUNTY shall perform field surveys, ground control, photogrammetric mapping, and digital terrain modeling.

#### E. FINAL DESIGN DRAINAGE AND BRIDGE HYDRAULICS REPORTS

A Final Design Drainage Report will be prepared to document hydrologic and hydraulic calculations necessary to complete drainage improvement plans related to the project. ENGINEER will evaluate the on-site flows along Mission Boulevard on the bridge and the adjacent approach roads. Specific limits are along Mission Boulevard between Mount Rubidoux Drive and Crestmore Road. Prior to developing drainage calculations, a thorough field reconnaissance will be conducted. Available documents pertinent to this Design Drainage Report will be obtained from the COUNTY for review. The ENGINEER's analysis will be closely coordinated with the affected agencies, including the RCFC. The Design Drainage Report will quantify the magnitude and frequency of design flows

from adjacent areas to the PROJECT area, as well as the volumes attributable to the proposed improvements.

For the Santa Ana River, a Final Bridge Hydraulics Report will be prepared. The following tasks will be performed:

- Conduct field review of the site as well as upstream and downstream reaches in order to observe the physical conditions and obtain the necessary hydraulic modeling parameters.
- Obtain and review existing hydrologic and hydraulic data including flow rates, aerial
  photographs, topographic data, FEMA studies, other recent studies, etc. Copies of relevant
  studies will be obtained from the RCFC and WCD for the review.
- Prepare a hydraulic evaluation of the final design alternative using HEC-RAS. The analyses
  will be based on the accepted 100-year flow rates and topographic mapping provided by the
  client. A debris factor will be applied to the bridge piers, if appropriate. The hydraulic
  analyses will be used to provide the bridge opening dimensions, low chord elevation with
  consideration given to freeboard requirements, and the bridge alignment.
- Perform final design of the preferred bridge alternative. The design will include tasks
  necessary to finalize the HEC-RAS analysis of the preferred alternative. In addition, local
  scour analyses of the piers will be performed to determine additional protection required for
  these structures.
- Prepare a report summarizing the results and recommendations of the analyses.
- Prepare a sediment transport analysis to determine the general scour at the bridge. This will ensure that the bridge piers and appurtenances are adequately designed for channel bed scour. A FLUVIAL-12 analysis will be performed to determine the general scour and a summary of the FLUVIAL-12 analysis results will be included in the report. The FLUVIAL-12 analysis will be based on the 100-year, 200-year and flood series events. Soil gradations will be provided at three locations in the stream bed.
- Prepare and process a Conditional Letter of Map Revision (CLOMR) based on the final engineering drawings. The CLOMR will be processed through RCFC and FEMA. The

COUNTY will need to provide the Endangered Species Act requirements for the CLOMR.

The CLOMR fee estimate is included with this scope. However, fees are subject to change by the issuing agencies and the COUNTY will be responsible for covering the difference. RCFC will provide all data necessary for levee certification.

- Prepare and process a Letter of Map Revision (LOMR) based on the as-built drawings. The
  LOMR will be processed through RCFC and FEMA. The LOMR fee estimate is included with
  this scope. However, fees are subject to change by the issuing agencies and the COUNTY
  will be responsible for covering the difference.
- Provide hydraulic and sediment transport data for the resource agency permitting.
- Up to three coordination meetings are assumed for these tasks.

ENGINEER will update and revise the designed storm water treatment BMPs for the project based on Low Impact Development Guidance Standards for Transportation Projects (TPG) for the Santa Ana Region Riverside County Co-Permittees and Template. This guidance applies to public transportation projects in the area covered by the Santa Ana Region MS4 Permit, which involve the construction of new transportation surfaces or improvement of existing transportation surfaces and is applicable to the current project. In Phase I, a TPG was prepared to follow and meet the requirements set forth in, Order No. R8-2009-0030/NPDES No. CAS618030, of the Santa Ana Regional Water Quality Control Board. The document incorporates Low Impact Development (LID) Best Management Practices (BMP) to the maximum extent practicable and will be updated to incorporate the final design conditions.

#### Deliverables:

- Final On-Site Drainage Report 3 copies
- Final Bridge Hydraulics Report 3 copies
- Update Final TPG 3 copies

#### Assumptions:

- ENGINEER will prepare the Final On-Site Drainage Report based on the Preliminary On-Site
   Drainage Report that was approved in Phase I.
- Major revisions to the concepts provided in the Preliminary On-Site Drainage Report are not anticipated.
- ENGINEER will update TPG for final design based on TPG that was approved in Phase I.
- Coordination will occur as part of the PDT Meetings. Separate meetings are not anticipated.
- ENGINEER will prepare the Final Bridge Hydraulics Report based on the Preliminary Bridge
   Hydraulics Report that was approved in Phase I.

#### F. STORM WATER POLLUTION PREVENTION PLAN

Erosion control plans for the site will be prepared consistent with General Permit requirements. These plans will be at scale 1"=50' and will indicate erosion control Best Management Practices (BMPs) to be implemented by the contractor prior to and during construction. This plan will be used as the basis for preparation of the formal Storm Water Pollution Prevention Plan (SWPPP).

ENGINEER will prepare a Concept SWPPP to assist in bidding for the Final SWPPP to be prepared by the Contractor. This report will incorporate the Erosion Control Plan including a hydroseed mix for slope stability and details for the construction site as described above. Preparation of a Concept SWPPP requires risk level determination calculations that will further define the requirements. These calculations will be provided according to the current Caltrans procedures using the Caltrans risk level spreadsheet. This project is anticipated to be a risk level 2 project. Concept SWPPP shall be prepared by a Qualified SWPPP Developer (QSD). A QSD must have one or more of the following credentials: a California registered professional civil engineer; a California registered professional geologist or engineering geologist; a California registered landscape architect; a professional hydrologist registered through the American Institute of Hydrology; a Certified Professional in Erosion and Sediment Control (CPESC) registered through Enviro Cert International, Inc.; or a professional in erosion and sediment control registered through Enviro Cert International, Inc.; or a professional in erosion and sediment control registered through the National Institute for Certification in Engineering Technologies (NICET).

The SWPPP will be designed to address the following objectives:

- Pollutants and their sources, including sources of sediment associated with construction,
   construction site erosion and other activities associated with construction activity are controlled
- Where not otherwise required to be under a Regional Water Board permit, non-storm water discharges are identified and either eliminated, controlled, or treated
- Site BMP selection to result in the reduction or elimination of pollutants in storm water discharges and authorized non-storm water discharges from construction activity to the Best Available Technology Economically Achievable (BAT) and Best Conventional Pollutant Control Technology (BCT)
- Stabilization BMPs installed to reduce or eliminate pollutants after construction are completed

#### Deliverables:

• Draft and Final Concept SWPPP Report - PDF and 2 Hard Copies

#### Assumptions:

- The Concept SWPPP serves as a guide for the Contractor who will be responsible for developing the Final SWPPP.
- Calculations and details for BMPs will be developed by the Contractor for the final SWPPP.
- ENGINEER is not responsible for the contractor's implementation, best management practice selection, compliance with local requirements, inspection or monitoring of the SWPPP, or fees related to permitting.
- One round of consolidated comments for the Draft and Final submittals is anticipated.

#### G. PHASE II SITE ASSESSMENT

ENGINEER will perform Phase II Site Assessment in accordance with ASTM E1903 and CALTRANS requirements to evaluate the potential presence of the following recognized environmental conditions (RECs) at and adjacent to the Project site that were identified during the Phase I Initial Site Assessment (ISA):

- Total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), metals, and polynuclear aromatic hydrocarbons (PAHs), which might be present in the fill soils used to form the existing Santa Ana River flood control levees in the 1950s.
- TPH, VOCs, and lead, which might be present in soil at the site of the historical automobile service station located at 5070 Mission Boulevard in Riverside.
- Pesticides and herbicides, which might be present in soil in areas within the Project limits that were formerly used for agricultural purposes.
- Polychlorinated biphenyls (PCBs), which might be presented in soils adjacent to electrical transformers and equipment that will be removed as part of the Project.
- TPH, metals, lead, and PAH compounds, which might be present in the soil and groundwater
  within the Santa Ana River at the site of the proposed replacement bridge as a result of
  documented contamination at the Proposed K-8 site (2950 Wallace Street in Rubidoux)
  located upgradient from the Project site.
- The bearing pad and the hinge and joint seal materials at the existing Mission Boulevard
   Bridge hinge, which might contain asbestos-containing materials (ACM).
- Soils adjacent to paved areas within the Project limits, which might contain aerially deposited lead (ADL) from vehicle exhaust.
- Lead-based paint (LBP) that might be present on the existing bridge coatings.

The Phase II Site Assessment will consist of reviewing data, preparing a work plan (including a site-specific health and safety plan), obtaining site access permits, checking for underground utilities at the site of the proposed field exploration locations through Underground Service Alert (USA) and a private geophysics service, coordinating and performing a field exploration to sample the potentially affected media at the site for hazardous materials, including disposal of investigation-derived waste (IDW), performing environmental laboratory testing on the select samples collected during the field exploration, performing statistical engineering analyses, and preparing a report documenting the findings, conclusions, and recommendations for environmental remediation of the Project site.

Site access permits will consist only of encroachment permits obtained through the City of Jurupa Valley, City of Riverside, and RCFC for the portions of the Phase II Site Assessment located outside the

Santa Ana River and its existing levees. Portions of the Phase II Site Assessment that will require access to the Santa Ana River and its existing levees will be performed under permits and biological monitoring obtained/provided for the geotechnical investigation (see Item H, Geotechnical Task 2).

Preparation of the Phase II Site Assessment deliverables includes responding to one set of comments each from RCTD, RCFC, and/or Caltrans. Comments received from RCTD and RCFC will be addressed prior to submitting the deliverables to Caltrans for review.

#### Deliverables:

- Phase II Site Assessment Work Plan
- Phase II Site Assessment Report

#### H. FINAL GEOTECHNICAL INVESTIGATION AND DESIGN

#### Geotechnical Task 1: Materials Report

Based on results from the field explorations and laboratory testing, the ENGINEER will prepare a Materials Report (MR) during the PS&E phase of the project and develop final design pavement sections. It is assumed that the COUNTY working with Kimley-Horn will provide appropriate Traffic Index (TI) values for pavement design. Pavement design will be conducted utilizing procedures described in Highway Design Manual Chapters 600 through 630.

The ENGINEER will prepare a draft and final Materials Report for review by the COUNTY. After review comments are received, we will review resulting comments and address them in the final Materials Report, as applicable. It is assumed one round of review comments will be addressed prior to completion of the final Materials Report.

#### Deliverables:

Draft and Final Materials Report

## Geotechnical Task 2: Geotechnical Design Report (including Field Exploration and Laboratory Testing) and Foundation Report for the PS&E Phase

The ENGINEER will prepare a Geotechnical Design Report (GDR) and bridge Foundation Report (FR) providing final design and construction recommendations for the bridge, roadway embankments, and general earthwork. As part of this task, a geotechnical subsurface investigation will be performed

to collect subsurface soil and groundwater information to support the project design in general accordance with Caltrans practice. We propose to drill up to 4 borings for the approach roadway and up to 7 borings for the bridge. The borings will be advanced to depths ranging from approximately 10 to 100 feet.

The proposed exploration locations will be depicted on a boring plan that includes access routes as part of the general Work Plan. The Work Plan must be reviewed and approved by the County and RCFC prior to the start of any geotechnical work. The ENGINEER will obtain an encroachment or right-of-entry permit from RCFC, City of Riverside, and the City of Jurupa Valley as required. A permit fee estimate is included with this scope. However, fees are subject to change by the issuing agencies and the COUNTY will be responsible for covering the difference. Securing right-of-entry from private property owners, if necessary, is not included in this scope. The COUNTY will process a No-Fee Access Permit though RCFC for biological monitoring and surveying for geotechnical field work, similar to the PAED phase. We assume that the environmental clearance has been obtained through the project NEPA document and that updated regulatory permits for USACE, CDFW, and RWQCB (obtained for the Phase I work) will be extended to cover the proposed field work.

If water is present in the low-flow channel within the Santa Ana River, the ENGINEER will not drill within the channel during the field exploration. Borings will be drilled as close as practical to the proposed Pier locations to obtain necessary geotechnical data for Pier design. If water is not present in the low-flow channel, the ENGINEER will drill within the channel to perform boring at all the planned Pier locations. ENGINEER will access to the proposed boring locations from both the north and south banks where feasible and allowed within the project ED. Access from the north side may require a temporary deck opening to allow for equipment access from the bridge deck. This will require traffic control, demolition and temporary deck repair which will be provided by the ENGINEER.

Upon approval of the proposed boring plan and receipt of required permits, the locations of the proposed field explorations will be marked, and USA will be notified to locate and mark existing lines and subsurface structures in the vicinity of proposed explorations. In addition, the ENGINEER will subcontract with a private service (geophysical survey) to attempt to locate utilities in the area immediately surrounding the proposed boring locations to decrease the risk from drilling.

Laboratory testing will be performed on selected soil samples obtained during our field exploration to evaluate their engineering properties. The testing will be performed using current ASTM or Caltrans test methods. Presently, we anticipate performing the following tests:

- Moisture content and dry unit weight
- Grain-size distribution
- Atterberg limits
- · Direct shear strength
- Consolidation
- Expansion Index
- R-value
- Sand equivalent
- Preliminary corrosivity (resistivity, pH, soluble sulfates, and soluble chloride)

The selected type and frequency of laboratory testing will depend on the nature of the soils encountered. Upon completion of our field exploration and laboratory testing, geotechnical engineering analyses will be performed as follows for our GDR and FR:

- Development of design soil profiles and parameters and design groundwater level
- Development of geologic cross sections for global slope stability analyses of the proposed embankments and (if necessary) retaining walls, and preliminary slope stability evaluation of the existing slopes, as applicable
- Evaluation of potential seismic hazards, including liquefaction and seismic slope instability
- AASHTO LRFD design of Caltrans standard Type 1 retaining wall foundation based on loading conditions corresponding to service limit state, strength limit state and extreme limit state provided by project structural engineer's estimate assumes up to two retaining walls for the project founded on shallow footings
- AASHTO LRFD design of deep foundations consisting of cast-in-drilled-hole concrete piles or cast-in-steel-shell piles with or without casings
- Final seismic design recommendations
- Final liquefaction and lateral spread mitigation requirements

- Assessment of retaining wall foundation permissible gross contact stress, factored gross nominal bearing resistances at the strength, and extreme limit states for retaining walls on shallow foundations
- Log of Test Borings (LOTB) for each of the bridge borings
- Earthwork and grading recommendations to assist designers in the development of project specifications
- Construction considerations

The ENGINEER will prepare a draft and final GDR and FR for review by the County. After review comments are received, GDR we will review resulting comments and address them in the final GDR and FR, as applicable. It has been assumed one round of review comments will be addressed prior to completion of the final GDR.

#### Deliverables:

- Draft and Final Geotechnical Design Report
- Draft and Final Bridge Foundation Report
- Right-of-Entry / Encroachment Permits for geotechnical investigation

#### I. FINAL ARCHITECTURAL DETAILS AND VISUAL SIMULATIONS

The ENGINEER will provide final architectural details and visual simulations for the bridge architectural features including the entry pilasters, exterior railings, barrier treatments, belvederes, and intermediate pilasters. The final architectural details will be based on the approved conceptual details as processed through COUNTY, City of Riverside, and City of Jurupa Valley. Final details will show all art work and graphics necessary for the bridge PS&E and will be routed through the project stakeholders for review and approval. The final details will be incorporated into the landscape and hardscape plans, specifications, and estimate for bidding and construction.

Visual simulations will be developed in 3D graphics format to allow views from multiple perspectives and may be used for final design level detailing as well as City and County staff reviews.

The ENGINEER will also provide 3D simulations for the project staged construction. These simulations will show the bridge construction stages and phases including foundations, superstructure

approach roadway for Stage 1, Stage 2, and the final configuration. Simulations will be placed over a 3D photo of the site and may be used as visual aids for agency and community meetings prior to and during construction.

#### Deliverables:

- Final architectural details for bridge aesthetics
- 3D simulation of the bridge construction with stages and final conditions (up to two static views and one video presentation)
- 3D graphics for architectural treatments (up to 8 key views)

#### J. U.S. ARMY CORPS OF ENGINEERS SECTION 408 PERMIT

The ENGINEER will prepare a Section 408 Permit request through the USACE. The request should: (1) confirm the technical soundness of the proposed alteration/modification; (2) provide a basis for environmental acceptability; and (3) formally request that a Section 408 Permit be granted to for the proposed alteration or modification. Guidelines for the application can be found online at: <a href="http://www.spl.usace.army.mil/Missions/Section-408-Permits/">http://www.spl.usace.army.mil/Missions/Section-408-Permits/</a>

Step 1: Early Coordination - Early coordination between USACE, the requester and/or non-federal sponsor, if applicable, may aid in identifying potential issues, focusing efforts, minimizing costs, and protecting sensitive information. Requestors should review information and requirements shown on the website to incorporate into the proposed request. Pre-application conferences are encouraged for projects of a unique nature or those that involve extensive or critical modifications.

Step 2: Written Request - The initiation of the Section 408 process begins with a written request. The written request is submitted to the District Commander of the appropriate USACE district office having jurisdiction over the USACE project that would be impacted by the alteration.

Step 3: Required Documentation – Kleinfelder will prepare and submit technical and environmental documentation necessary for the district to determine whether the proposed alteration would impair the usefulness of the project or be injurious to the public interest. We have assumed that the supporting documents are the same technical documents prepared to support the CEQA/NEPA document for the bridge replacement. Updated documents required for the final bridge

design and listed in the project deliverables (including final plans, hydraulic and geotechnical reports) list will be provided to the USACE as needed.

Step 4: Post-Permission Oversight – Once the District approves the proposed alterations and issues the 408 Permission, the County (through their consultant responsible for Construction Management and environmental monitoring) is then responsible for the Post-Permission oversight. Kleinfelder will be available to assist with this during the future construction phase of the project.

#### Deliverables:

Section 408 Application Package (with supporting documents)

#### K. FINAL RIGHT OF WAY REQUIREMENTS MAP

Right of way map preparation will follow current COUNTY procedures. The ENGINEER will coordinate with the COUNTY regarding the information that will be presented in the map.

The ENGINEER will submit draft and final right of way requirement map to the COUNTY for review and comment. It is anticipated that COUNTY will use the approved right of way requirements to prepare the Legal Descriptions, Plats and Right of Way Maps to acquire the necessary right of way. The COUNTY will be responsible for completion of land acquisition activities.

#### Deliverables:

Draft and Final Right of Way Requirements Map – PDF and 2 Hard Copies

#### Assumptions:

- One round of consolidated comments is anticipated for the Draft and Final submittal.
- ENGINEER anticipates COUNTY will perform the processing for acquisitions.

#### L. UTILITY COORDINATION

The intent of the County of Riverside (COUNTY) is that the services of the ENGINEER shall be complete and "turn-key" with respects to all utility coordination matters, including complete coordination for the protection and relocation of existing facilities as described herein, as well as coordination, preparation of applications, and all other matters pertaining to the relocation and installation of water and electric services, except for those procedures that must be performed by

COUNTY. This project is proposed to be funded mainly by state and federal funds and must therefore conform to the processes and procedures of the CALTRANS Office of Local Programs.

ENGINEER shall designate dedicated staff who shall be responsible for all coordination work related to utilities for Project, including but not limited to relocations of existing trunk and mainline facilities, installation of new trunk and mainline facilities, relocation of existing electric and water services, and installation of new electric and water services.

ENGINEER shall coordinate with utility owners and COUNTY utility coordination staff with respect to all utility related matters. ENGINEER shall provide copies of all correspondence with utility companies and other utility related information to the COUNTY. Correspondence, as described herein, shall be prepared by ENGINEER for either ENGINEER or COUNTY signature, as appropriate, and as directed by the COUNTY'S Project Manager.

ENGINEER shall coordinate with COUNTY staff to obtain record copies of utility maps from each utility owner within the project limits for existing and/or proposed utility facilities. ENGINEER shall include mapping and/or exhibits that clearly define the project limits as part of the requests for utility information.

ENGINEER shall Identify utility companies affected by the project and delineate utilities within the project's sphere of influence on the plans. ENGINEER shall prepare preliminary plans, which shall include all existing utilities (above ground and below ground) identified by location, size, type, and owner, as appropriate. ENGINEER shall check horizontal and vertical clearances for utilities and coordinate design with the various utility companies to address conflicts. In addition to information provided by the owning utility companies and through research of other record maps, field surveys shall be used to locate utility features such as manholes, valves, fire hydrants, poles, risers, etc., which shall be reflected on the plans.

If it is necessary to pothole existing utilities at critical locations, ENGINEER shall coordinate with COUNTY staff to arrange with the respective utility owner to pothole its facility (at utility owner or COUNTY cost). ENGINEER shall coordinate the use of field survey crews to locate potholed utilities by coordinates and elevations based on the project's survey controls.

Known utility conflicts shall be shown on the plans with construction notes indicating action to be taken and by whom. Inventory numbers of poles, vaults, and other surface facilities shall be shown on the plans for those facilities that have such numbers attached to the facility and as provided on the owner's inventory maps.

ENGINEER shall send final design plans through COUNTY staff to owning utility companies within the project limits with requests for review and comments on the plans relevant to their respective facilities, and with requests for other project specific information.

ENGINEER shall monitor responses of utility notices received and make recommendations for mitigating conflicts. ENGINEER shall provide written responses to utility companies with regard to stated concerns and conduct design coordination meetings with utility companies as needed.

Unresolved issues shall be brought to the attention of the COUNTY PROJECT MANAGER and County utility coordination staff as early as practical. Utility conflict issues shall be resolved prior to the completion of the final design plans as follows:

- ENGINEER, through COUNTY staff, shall request and obtain a written acknowledgement of any conflicts from the respective utility owners.
- Reasonable efforts shall be taken to accommodate utility company requests for minor design changes to accommodate their facilities. ENGINEER understands that the utility companies are generally operating within the COUNTY right-of-way, but may have prior rights to that of the COUNTY in some cases.
- ENGINEER shall coordinate inclusion of special provisions in County's bid documents for
  adjustments and relocations of utility facilities as alternate bid items, if requested by the
  owning utility. Said work may require that cooperative agreements be prepared by COUNTY
  between the County of Riverside and the owning utility companies. ENGINEER shall provide
  information and exhibits as required to support the preparation of cooperative agreements, if
  needed.

ENGINEER shall conduct utility coordination meetings, as needed, regarding adjustments and relocations, to resolve conflict issues, and with respect to performing work for utility companies by COUNTY contractors.

For utility conflicts that require relocating, COUNTY staff will submit the official notice / order to the utility companies to relocate conflicting facilities.

ENGINEER shall make recommendations for special provision language with regard to utility issues, recommendations for construction windows of time for utility relocation activities, recommendations for inclusion of utility bid items, etc.

If new electrical service will be needed, ENGINEER shall provide support as directed by COUNTY.

Such support includes, but is not limited to, the following responsibilities:

Obtain <u>approved</u> water service point from the serving water company for each water meter to be installed, and identify requirements that the serving water company has for the provision of service. Coordinate with water company with respect to design issues associated with the provision of service. Coordinate with serving water company to fulfill serving water company requirements as appropriate, including preparation of all utility company forms and submission to County for execution. Advise COUNTY of requirements that are beyond the scope of the consultant (e.g.: execution of applications for service). However, ENGINEER is expected to provide turn-key service.

#### Deliverables:

- Irrigation design to show preferred service location.
- Application to water purveyor for water service point, including any and all water use calculation information and landscaping plans as required by water company.
- Obtain service address from appropriate municipality.
- Obtain approved water service plan from water purveyor.
- Staging plans for relocation of water meters.
- Application to water purveyor for water service, including coordination with account holder for signatures, payments of fees, etc.
- Service spreadsheet and exhibit as described herein.

- Plans, special provisions, and water company drawings, details and requirements for inclusion in bid package.
- Construction support

If new electrical service will be needed, ENGINEER shall provide support as directed by COUNTY. Such support includes, but is not limited to, the following responsibilities:

- Obtain approved electrical service point from the serving electric company for each service equipment enclosure to be installed, and identify requirements that the serving electric company has for the provision of service. Fulfill serving electric company requirements as appropriate, and advise COUNTY of requirements that are beyond the scope of the consultant (e.g., applications for service). However, ENGINEER is expected to provide turn-key service.
- Serving electric company shall be notified that Electrical Safety Orders clearance requirements
  must be met (10 feet radial clearance between 12kv overhead electrical facilities and signal
  poles and mast arms, and greater clearance for higher voltage electrical facilities). Show such
  clearance conflicts on the plans with construction notes.
- Submit plans indicating proposed service connection locations to serving electric company for approval (service equipment enclosure, conduit runs, riser quadrant, pole number, and connections to vaults as appropriate).
- Provide detailed load calculations to serving electric company, with a copy to the COUNTY,
   which provides calculations of the normal and maximum expected loads.

For both water and electric service, ENGINEER shall prepare a spreadsheet of the tasks required to obtain service, in accordance with the sample provided by, or as approved by, the Transportation Department, which shall be utilized as an ongoing list of action items and a dynamic record of actions completed, throughout the development of the project. The spreadsheet shall be supplemented with a map exhibit of the project footprint with the locations of all services plotted and referenced to the spreadsheet. ENGINEER shall arrange for a second qualified person to periodically review work of the ENGINEER staff that is assigned this responsibility, and that person shall independently verify the accuracy of the information on a regular basis.

ENGINEER shall assist with the resolution of utility related issues that may arise during the bidding process and during construction, including design modifications as needed and as approved by the COUNTY PROJECT MANAGER.

Specific issues and utility company requirements may result in deviation from the procedures outlined herein.

The ENGINEER will show utilities according to readily available information. The COUNTY will provide field surveys with surface utility features shown and labeled. The COUNTY will provide field surveys to locate utility potholing determined to be necessary. Utility potholing, if required, will be performed as a direct cost within the budget allowance.

Utility relocations are anticipated to include adjustments to surface features (raising or lowering manholes and valves). Separate utility relocations designs are not anticipated.

#### Deliverables:

- Utility Relocation Letters
- Utility Potholing Summary
- Final Composite Utility Plans
- Electrical design to show preferred service location.
- Application to electric purveyor for electric service point(s), including any and all electricity
  use calculation information and electrical plans as required by electric company.
- Obtain service address from appropriate municipality.
- Obtain approved electric service plan from water purveyor.
- Staging plans for relocation of electrical service meters.
- Application to electric purveyor for electric service, including coordination with account holder for signatures, payments of fees, etc.
- Service spreadsheet and exhibit as described herein.
- Plans, special provisions, and electric company drawings, details and requirements for inclusion in bid package.
- · Construction support.

#### Assumptions:

- Kimley-Horn will prepare composite utility plans that will show existing utility information according to readily available information and information gathered during Phase I.
- Kimley-Horn will prepare proposed composite utility plans that will show the proposed utility information based on the relocation designs provided by the third-party utilities.
- COUNTY will provide field surveys to locate utility potholing determined to be necessary.
- Utility relocations are anticipated to include adjustments to surface features (raising or lowering manholes and valves). Separate utility relocation designs are not anticipated.
- Up to ten meetings are anticipated to coordinate with utility companies.
- ENGINEER has provided a budget for utility potholing if required at the direction of the COUNTY.

#### M. MISCELLANEOUS DESIGN SUPPORT

ENGINEER shall review the final environmental document and mitigation requirements developed during the Preliminary Engineering and Environmental Phase. All requirements shall be carried forward into the PS&E phase with respect to the design plans and specifications. Engineer shall assist the COUNTY with final negotiations with resource agencies including USACE, RWQCB, and CDFW. ENGINEER shall review prior project documents including the Type Selection Report and Project Report for project requirements and agreements with the City of Riverside and Jurupa Valley. All agreements and requirements shall be incorporated into the PS&E phase with respect to the design plans and specifications.

#### **Design Exceptions**

If necessary, design exception documentation performed in the PA/ED phase will be updated during final design. ENGINEER will coordinate with COUNTY for necessary updates. Design exceptions are described in a fact sheet presenting the exception with reason and necessary justification. Design exceptions will be processed through the COUNTY with necessary justification and documentation.

Deliverable:

Design Exceptions Fact Sheets (updated for final design)

#### Final Transportation Management Plan (TMP)

The TMP was completed and approved in the PA/ED phase work. This established the concept for developing final design documents related to traffic handling during construction. No updates to the approved TMP are anticipated.

#### **ARTICLE AIV • STRUCTURES**

#### A. STRUCTURAL DESIGN AND CALCULATIONS

Following the Type Selection Meeting and approval of the General Plan, structural design calculations will be prepared in conformance with CALTRANS design specifications and procedures.

All plans and calculations shall conform to the current CALTRANS bridge design criteria and shall be submitted for review and approval.

The scope of this work shall include but not be limited to:

- Bridge plans and construction details shall be prepared on COUNTY format plan sheets.
   Standard Details shall be incorporated into the Contract Plans where applicable.
- Each plan sheet shall be signed and stamped by the responsible design engineer who is registered in the State of California. Each design shall be independently checked by a Professional Engineer registered in the State of California.
- Environmental Constraints Areas shall be shown in plans (if required in Environmental Document).
- The anticipated sheet list is included in ARTICLE A XII

#### B. INDEPENDENT CHECK REVIEW AND QUALITY CONTROL

An Independent Check review shall be conducted as soon as the initial design is complete. Checking shall include the preparation of an independent set of structural design check calculations and review of the plans and details. The checker and the designer will resolve any disagreements and concur on any revisions to the contract plans.

## C. STRUCTURE SPECIFICATIONS AND ESTIMATES

Special Provisions will be prepared for items not covered by the CALTRANS Standard Specifications or Standard Special Provisions (SSP's).

The ENGINEER shall edit Standard Special Provisions (SSPs) and prepare Structure Special Provisions specific to this project which will be incorporated into the final PS&E. These Structure Special Provisions shall be prepared, signed and stamped by a Professional Engineer registered in the State of California.

The ENGINEER shall prepare quantity calculations for bid items and prepare the bridge cost estimate. All contract items used shall be substantiated by calculations. Quantity calculations shall be neat and orderly and shall show all sketches, diagrams and dimensions necessary to allow them to be independently used by field inspectors. All quantity calculations shall be independently checked and substantiated with calculations.

The Construction Cost Estimate will be prepared using the latest available CALTRANS cost data, COUNTY cost data and actual recent construction costs in the PROJECT area.

## Deliverables:

- Draft and Final Technical Specifications
- Draft and Final Engineer's Cost Estimate

## D. STRUCTURE PLANS, SPECIFICATIONS, AND ESTIMATE

The structure PS&E will be provided in four submittal packages to the COUNTY. Submittal levels will be provided at 65%, 90%, 95%, and Final.

#### Initial Structure PS&E (65% Unchecked Plans)

(65%) structure PS&E will be compiled and submitted to the COUNTY for review.

## Intermediate Structure PS&E (90% Checked Plans)

The (90%) structure PS&E will be compiled and submitted to the COUNTY for review.

## **Draft Final Structure PS&E (95% Checked Plans)**

The draft (95%) structure PS&E shall be compiled and submitted for review to the COUNTY. One set of full size reproducible and ten half size copies of plans, two copies of design calculations and design check calculations, three sets of quantity calculations and Marginal Estimates and three sets of edited Structure Special Provisions. (One copy of each will be returned with comments). The package will be accompanied by a Structures PS&E checklist and Resident Engineer's file checklist.

## Final Structure PS&E (100% Checked Plans)

The final structure PS&E will incorporate review comments from the COUNTY, City of Riverside, City of Jurupa Valley, and other affected agencies. The ENGINEER will provide all necessary documents in a bid-ready form. It is assumed that the COUNTY will advertise, award, and administer the construction contract for this PROJECT. The ENGINEER shall deliver the following documents to COUNTY:

- 1 set of full size reproducible tracings of final design plans
- 1 set of half size reproducible tracings of final design plans
- 3 sets of final Structure Special Provisions
- 2 copies of final quantity calculations and estimate
- 2 copies of final design calculations
- 2 copies of independent design check calculations
- 1 set of 4-Scale plans of the bridge deck contours
- 1 Resident Engineer's File

#### Deliverables:

65%, 90%, 95%, and Final Structure PS&E Package

## **ARTICLE AV • ROADWAY**

The title sheet for specifications and reports, and each sheet of plans, shall bear the professional seal, certificate number, registration classification, expiration date of the certificate and signature of the Professional Engineer responsible for their preparation. All roadway plans shall also use single sheet files.

The following is a summary listing of drawing types that shall be prepared as part of the roadway PS&E package:

## A. BASIC ROADWAY PLANS

The plan sheets will be provided include but are not limited to:

- Title Sheet
- Typical Cross Section Plan
- Key Map and Line Index
- Mission Boulevard Layout Plan
- · Profile and Superelevation Diagrams
- Stage Construction Plans
- Bike Path Modification detail (under bridge) Plan
- Temporary and Permeant modification of west end Scout Ln Plan
- Construction Detail for Maintenance Driveways Plan
- Slurry Seal Plan for Scout Lane
- · Construction Details Plan
- Erosion Control Plan
- Erosion Control Details and Quantities
- Street Lights and Bridge light plans

#### **B. CALCULATIONS**

The following calculations will be provided:

- Working Roadway Cross Sections at 25-foot interval Slope Staking Notes
- Grid Grades
- Profile
- · Earthwork Quantities
- Other Quantities

### Assumptions:

- Kimley-Horn will provide calculations for project tasks related to their scope of work.
- Limits of work are along Mission Blvd from the east leg of Crestmore Rd (approximate STA 50+50) to east of Scout Ln (approximate STA 76+00).
- Temporary modifications to west end Scout Ln for access during construction only. Scout Ln
   west end modifications to be restored prior to end of construction
- Santa Ana bike trail to be re-constructed and re-profiled under the new Mission Blvd bridge structure.
- The monument sign located on the southwest corner of Scout Ln and Mission Blvd is to be protected in place. Effort to relocate this sign structure is not anticipated and not included

#### C. DRAINAGE PLANS

ENGINEER shall perform hydrology and hydraulic studies to obtain and provide design solutions, which will remove surface runoff from the area of the improvements. Studies and designs shall be performed in accordance with Chapter 800 of the current Highway Design Manual, District 8 Project Development Policy Memos and the current CALTRANS or City Standard Plans. Drainage plans will show the locations of deck drains for the proposed bridge and connections to existing storm drain systems. Within the City of Jurupa Valley, the new storm drain system will connect to the existing storm drain within Crestmore Road. Within the City of Riverside, the new storm drain will connect to an existing storm drain system that runs through Carlson Park and discharges to the Santa Ana River. Storm drain details will include bioretention details for the proposed BMP adjacent to Carlson Park.

The following list of drawing types and the number of sheets estimated shall include:

- Contour Grading
- Drainage Layouts
- Drainage Profiles
- Drainage Details
- Drainage Quantities

## Assumptions:

- Bridge deck drain plans, pipe profiles, and details will be provided by Kleinfelder.
- The existing storm drain within Carlson Park is in good condition; a new storm drain with outlet to the Santa Ana River is not anticipated.

#### D. TRAFFIC PLANS

The following list of drawing types and the number of sheets estimated shall include:

- Construction Area Signs
- Stage Construction and Traffic Handling
- Traffic Signal Modification Plan
- Highway Lighting and Sign Illumination
- Signal and Lighting
- · Pavement Delineation

### Assumptions:

- Kimley-Horn will provide calculations for project tasks related to their scope of work.
- Traffic Signal Modification at Mission Blvd/Crestmore Rd are necessary to tie-in the multiuse path with existing class 2 bikes paths along Crestmore Rd.

## E. MISCELLANEOUS PLANS

The following miscellaneous plans shall be included:

- Composite Utility Plan
- Summary of Quantities
- Retaining Wall Plan and Elevation
- Retaining Wall Details and Quantities
- Safety Barrier
- Fencing
- Right of Way Requirements
- Landscape and Hardscape Plans
- Lighting Plans

### Assumptions:

Kimley-Horn will provide calculations for project tasks related to their scope of work.

#### F. INTERMEDIATE REVIEWS

Roadway, drainage, traffic and miscellaneous plans shall be submitted for review to the COUNTY at the 65%, 95%, and 100% complete stage. A pre-65% submittal will be prepared and submitted that consists of "skeletal" layouts at approximately 30% completion to confirm appropriate direction of the designs and plan set. The ENGINEER will submit up to 5 full size sets of all plans and 5 sets of plans reduced to 11" x 17" size. Roadway cross sections, grid grades, and slope staking notes will be submitted only at the 100% complete submittal stage. Also, the ENGINEER should submit electronic samples of all plan sheet groups on a compact disc at intermediate reviews.

Landscape and hardscape plans shall be consistent with the approved conceptual architectural plans developed during the Phase I scope of work. Hardscape plans will include details for entry pilasters, intermediate pilasters, decorative barrier and railing treatments, decorative multi-purpose trail surface treatments, interpretive signage, textures, and colors. Landscape plans shall include landscaping along the Mission Boulevard roadway approaches, restoration for any work in Carlson Park, planting and irrigation for slopes, percolation basin at Carlson Park, and on-site mitigation within the Santa Ana River.

#### Assumptions:

- Final Right-of-Way Requirements will be provided by the ENGINEER.
- Communication Plans are not anticipated to be needed and are not included.

## G. SPECIFICATIONS AND ESTIMATE

Specifications and Special Provisions will be prepared for items not covered by the CALTRANS Standard Specifications or Standard Special Provisions.

The Roadway Construction Cost Estimate will be prepared using the latest available CALTRANS cost data, COUNTY cost data, and actual recent construction costs in the PROJECT area.

#### H. QUALITY CONTROL

The PS&E will be subject to quality control reviews before submittal. These reviews will assure conformance to CALTRANS and COUNTY standards and criteria as well as minimize typographical omissions.

## I. DRAFT PLANS, SPECIFICATIONS, AND ESTIMATE (95% COMPLETE)

The roadway plans, revised to incorporate Quality Control review comments, will be submitted to the COUNTY for review and comments. These will include:

- Roadway Plans
- Design Calculations
- Special Provisions
- Roadway Quantities and Cost Estimate

One safety/constructability review meeting will be held at the 95% PS&E stage.

## J. FINAL PLANS, SPECIFICATIONS, AND ESTIMATE (100% COMPLETE)

The final PS&E will incorporate applicable comments from the draft PS&E received from the COUNTY, and other affected agencies. The ENGINEER will provide the necessary final PS&E documents in a bid-ready form. PROJECT files and the Project Engineer's/Resident Engineer's file will also be submitted with the final PS&E. The entire PROJECT, which will be prepared in MicroStation format, will be submitted upon final approval of the PS&E.

## ARTICLE AVI • ENVIRONMENTAL PERMITS AND MITIGATION PLAN

Environmental permits for final construction will be required because the project will affect waters considered jurisdictional by the USACE, RWQCB, and CDFW. Agency coordination may include meetings with one or more of the applicable agencies to discuss the project and the submittal packages. Therefore, this task includes two meetings with agency personnel. The permitting tasks will also require some coordination with the various project team members in order to obtain all of the requisite information and materials.

#### Deliverables:

- Permit Applications to USACE, CDFW, and RWQCB for geotechnical borings
- Permit Applications to USACE, CDFW, and RWQCB for construction activities

To complete this task, LSA will need to compile a variety of requisite engineering and construction information and materials, including plan view and cross-section view construction drawings pertaining to the jurisdictional areas subject to project-related impacts; construction and post-construction best management practices (BMPs); and hydrology/hydraulics data. It is important that the project design be complete or nearly complete before the permitting process is initiated. The following tasks will be included:

# A. ENVIRONMENTAL TASK 1: FEDERAL CLEAN WATER ACT (CWA) SECTION 404 NATIONWIDE PERMIT AUTHORIZATION

ENGINEER anticipates that Nationwide Permit (NWP) 14 is the appropriate NWP for the proposed construction activities. ENGINEER anticipates that a Pre-Construction Notification will be required for temporary impacts. The notification will include pertinent information, including project description and figures, a discussion of the biological resources expected to be in the vicinity of the project, including an explanation of measures to avoid impacts to listed species. Additionally, copies of the permit applications/notification packages submitted to the RWQCB and CDFW will also be included. Please note that the USACE Section 408 Civil Works review and permitting process, as applicable, will need to be completed prior to receiving Section 404 authorization.

## B. ENVIRONMENTAL TASK 2: CWA SECTION 401, WATER QUALITY CERTIFICATION

The construction activities that will require a 404 permit will also require a Section 401 Water Quality Certification from the RWQCB. This effort involves preparing a separate application package, including a detailed application form and fee calculation, for submittal to the RWQCB. The form addresses water quality and wetland issues, BMPs, flow volumes and velocities, and potential impacts to beneficial water uses. A copy of the Water Quality Management Plan, if available, will be included with the submittal package. In expediting the permit process, it is important to note that the USACE will not issue its final authorization as a condition of the NWP until the USACE has received a copy of the water quality certification from the RWQCB. The RWQCB requires a Section 401

application filing fee for fill or dredge operations based on the quantity (linear feet and acreage) of fill with respect to waters of the United States. A check for the application filing fee in the amount of \$1,500 will be included in the application submittal.

## C. ENVIRONMENTAL TASK 3: CALIFORNIA FISH AND GAME CODE SECTION 1602, LAKE OR STREAMBED ALTERATION AGREEMENT

Through provisions of the California Fish and Game Code (Section 1600 et seq.), the CDFW has jurisdiction to enter into agreements for any alteration of a river, stream, or lake where fish or wildlife resources may be adversely affected. ENGINEER will prepare and submit a Notification of Streambed Alteration to the CDFW. Completion of CDFW form FG2023 is required, along with a detailed cover letter, including graphics and various other attachments (e.g., CEQA documentation, habitat mitigation plan, water diversion plan). Additionally, a signed and stamped copy of the Notice of Determination as well as a copy of the CDFW environmental filling fee payment are required as part of the submittal package. In addition, a check for the Notification processing fee, based on the estimated cost associated with the activity resulting in impacts to CDFW jurisdiction, will be included in the Notification submittal package; the maximum fee is \$5,145.75 for project costs above \$350,000.

## D. ENVIRONMENTAL TASK 4: ON-SITE MITIGATION PLAN

ENGINEER will develop an on-site mitigation or enhancement plan which will be suitable for submittal to the CDFW and RWQCB, as required, to satisfy permit requirements. It is not anticipated that the Compensatory Mitigation Plan would be needed to USACE standards due to lack of permanent impacts to USACE jurisdictional areas. The mitigation plan will be prepared as required by CDFW and RWQCB permit conditions in order to address mitigation for shade impacts and temporal loss of occupied least Bell's vireo habitat. This mitigation is anticipated to be consistent with the mitigation requirements addressed in the Determination of Biologically Equivalent or Superior Preservation (DBESP). This mitigation plan will include a general evaluation of the project impacts, use of mitigation through in-lieu fee programs, the location of potential mitigation areas/sites as necessary, habitat types to be created or enhanced, general implementation strategy, supporting rationale, site preparation, seed and plant material, installation methods, and target (maintenance and monitoring success criteria) and ultimate performance standards as necessary for the mitigation measures. If applicable, LSA will also develop basic revegetation strategies addressing hydrological

requirements, soils requirements, general species selection, types of revegetation to be employed, sources for plant materials, planting techniques, monitoring and maintenance, and documentation of results.

# E. ENVIRONMENTAL TASK 5: COORDINATION WITH CITY OF RIVERSIDE AND SUCKER HABITAT CONSERVATION PLAN PARTIES FOR OFF-SITE MITIGATION

ENGINEER will coordinate with City of Riverside Public Utilities Water Division and other entities associated with the Habitat Conservation Plan for the Santa Ana sucker, including Riverside-Corona Resource Conservation District, in order to design a mitigation plan that can accommodate future park amenities and use of the site for mitigation for the Santa Ana sucker. Scope includes 8 conference calls (including 6 hours of preparation and follow up for each) and 4 meetings (including 12 hours of preparation and follow up for each).

- F. ENVIRONMENTAL TASK 6: OFF-SITE BAT HABITAT COORDINATION AND DESIGN

  ENGINEER will develop a bat replacement habitat to be installed at Fairmount Park.
- G. ENVIRONMENTAL TASK 7: OFF-SITE MITIGATION PLAN ENVIRONMENTAL LEAD COORDINATION WITH SUBCONSULTANT

ENGINEER will develop an off-site mitigation or enhancement plan which will be suitable for submittal to the CDFW and RWQCB, as required, to satisfy permit requirements. It is not anticipated that the Compensatory Mitigation Plan would be needed to USACE standards due to lack of permanent impacts to USACE jurisdictional areas. The mitigation plan will be prepared as required by CDFW and RWQCB permit conditions in order to address mitigation for shade impacts and temporal loss of occupied least Bell's vireo habitat. This mitigation is anticipated to be consistent with the mitigation requirements addressed in the Determination of Biologically Equivalent or Superior Preservation (DBESP). This mitigation plan will include a general evaluation of the project impacts, use of mitigation through in-lieu fee programs, the location of potential mitigation areas/sites as necessary, habitat types to be created or enhanced, general implementation strategy, supporting rationale, site preparation, seed and plant material, installation methods, and target (maintenance and monitoring success criteria) and ultimate performance standards as necessary for the mitigation measures. If applicable, LSA will also develop basic revegetation strategies addressing hydrological requirements, soils requirements, general species selection, types of revegetation to be employed,

## **ARTICLE AVII • CONSTRUCTION BIDDING PHASE**

Bidding procedures will be the responsibility of COUNTY. While the PROJECT is being advertised for bids, all questions concerning the intent shall be referred to COUNTY for resolution. In the event that the items requiring interpretation in the drawings or specifications are discovered during the bidding period, said items shall be analyzed by the ENGINEER for decision by COUNTY as to the proper procedure required. Corrective action taken will either be in the form of an addendum prepared by the ENGINEER and issued by COUNTY or by covering change order after the award of the construction contract.

## **ARTICLE AVIII • CONSTRUCTION SUPPORT PHASE**

ENGINEER shall attend the pre-construction meeting with the successful contractor upon notification by the COUNTY.

Upon award of the construction contract, ENGINEER will proceed with the Construction Support Phase services required by this contract.

During construction, the ENGINEER shall furnish all necessary additional drawings for correcting and change orders required by errors and omissions of ENGINEER. Such drawings will be requested in writing from the ENGINEER by COUNTY and shall be at no additional cost to the COUNTY. The original tracing(s) of the drawings and contract wording for change orders shall be submitted to the COUNTY for duplication and distribution.

ENGINEER shall review shop drawings and RFIs submitted by the contractor (falsework and rebar shop-plan review is not included). ENGINEER shall complete shop plan reviews within the time allowed on the project specifications (SSP's) including COUNTY response time. Contract change order and RFI reviews shall be completed within two working days of receipt.

Drawings and change orders required due to actions of the COUNTY or to address unanticipated field conditions or Contractor requested revisions, which are beyond the scope of the ENGINEER's responsibilities, shall be considered extra services.

ENGINEER shall be available to visit to the jobsite for on-site review of construction and other visits to the jobsite as requested by the COUNTY to resolve any discrepancies in the contract documents. ENGINEER will be on-site during the pile placement to confirm the geotechnical design assumptions and

to document soil conditions. ENGINEER shall bring to the attention of the COUNTY's Resident Engineer any defects or deficiencies in the work by the construction contractor, which the ENGINEER may observe. ENGINEER shall have no authority to issue instructions on behalf of the COUNTY or to deputize another to do so. All agreements shall be between the COUNTY and its construction contractor. These provisions shall not be construed as making the ENGINEER responsible for failure of the construction contractor to carry out the work in accordance with the contract documents nor the construction means or methods or techniques, sequences, procedures or safety programs in connection with the work.

ENGINEER shall prepare and deliver to the COUNTY the "As-Built" plans within two months of completion of structure construction. We anticipate the following:

- Contract Change Order Reviews up to five per Item E above
- RFI Responses to address questions and clarifications form the Contractor and field engineering staff
- Shop Drawing Reviews:
  - CIDH Pile installation plans
  - Prestressing system working drawings
  - Joint seal assembly shop drawings
  - Bearings shop drawings
  - Metal railing shop drawings
- Field Visits/Meetings up to 8
- Part time observations for pile placement by geotechnical engineer of record

Design changes for the Contractor's preference are not anticipated

As-Built plans will be based on a redline markup of the latest design as provided by the Contractor. Independent verification is not anticipated.

## **ARTICLE AVIV • COMPUTER SERVICES**

#### A. CALCULATIONS

All roadway calculations will be performed using AutoCAD Civil 3D or Bentley InRoads. The structural analyses and design will be performed by using commercially available bridge analysis and

design programs. Water use calculations will be performed per 2015 Model Water Efficient Landscape Ordinance.

#### **B. COMPUTER AIDED DRAFTING AND DESIGN**

All plans will be prepared using MicroStation format in conformance with the latest CALTRANS CADD

User's Manual and the CALTRANS Drafting Manual as modified by the current COUNTY CADD

Guidelines to assure complete compatibility.

## **ARTICLE AX • QUALITY CONTROL PLAN**

A Quality Control Plan will be established for this PROJECT in accordance with the provisions of Article IV, Section H of the Agreement. It will be provided to the COUNTY within two (2) weeks after NTP for review and approval.

#### Deliverable:

Quality Control/Quality Assurance Plan (updated for final design)

## **ARTICLE AXI • ADVANCE CONCEPTUAL ENGINEERING**

ENGINEER shall provide advance conceptual engineering to support the environmental studies during the PA/ED phase. This effort may include preliminary calculations on materials quantities and impact areas needed to develop the preliminary mitigation areas and to support resource agency reviews and comments.

#### Deliverable:

Advance conceptual engineering documents as requested by the COUNTY

## **ARTICLE AXII • SHEET LIST**

The anticipated sheet list for the project includes but is not limited to:

Title Sheet
Bridge General Plan
Index to Plans
Deck Contours (1 of 2)
Deck Contours (2 of 2)
Bridge Removal Plan (1 of 2)
Bridge Removal Plan (2 of 2)

Structure Plan (1 of 2)

Structure Plan (2 of 2)

Foundation Plan (1 of 2)

Foundation Plan (2 of 2)

Abutment 1 Layout

Abutment 7 Layout

Abutment Details No. 1

Abutment Details No. 2

Abutment Details No. 3

Bent Details No. 1

Bent Details No. 2

Bent Details No. 3

Typical Section (1 of 2)

Typical Section (2 of 2)

Girder Layout (1 of 3)

Girder Layout (2 of 3)

Girder Layout (3 of 3)

Girder Details (1 of 3)

Slab Reinforcement (1 of 3)

Slab Reinforcement (2 of 3)

Hinge Details (1 of 2)

Hinge Details (2 of 2)

**End Diaphragm Details** 

PTFE Spherical Bearings

Joint Seal Assembly Details

Structure Approach Drainage Details

Barrier Layout (1 of 2)

Barrier Layout (2 of 2)

Railing Details (1 or 2)

Railing Details (2 or 2)

Miscellaneous Details

**Utility Details** 

Architectural Details (1 of 4)

Architectural Details (2 of 4)

Architectural Details (3 of 4)

Architectural Details (4 of 4)

Retaining Wall Plan and Elevation (1 of 3)

Retaining Wall Plan and Elevation (2 of 3)

Retaining Wall Plan and Elevation (3 of 3)

Retaining Wall Details and Quantities (1 of 2)

Retaining Wall Details and Quantities (2 of 2)

Log of Test Borings (1 of 6)

Log of Test Borings (2 of 6)

Log of Test Borings (3 of 6)

Log of Test Borings (4 of 6)

Log of Test Borings (5 of 6)

Log of Test Borings (6 of 6)

Title Sheet (Roadway)

Typical Cross Sections (1 of 2)

Typical Cross Sections (2 of 2)

Key Map and Line Index (1 of X)

Roadway Layout (1 of 4)

Roadway Layout (2 of 4)

Roadway Layout (3 of 4)

Roadway Layout (4 of 4)

Santa Ana River Bike Path Details

Profile and Superelevation Diagrams (1 of X2

Profile and Superelevation Diagrams (2 of 2)

Construction and Intersection Details (1 of 2)

Construction and Intersection Details (2 of 2)

Erosion Control Plan (1 of 2)

Erosion Control Plan (2 of 2)

**Erosion Control Details and Quantities** 

Contour Grading and Drainage Layout (1 of 3)

Contour Grading and Drainage Layout (2 of 3)

Contour Grading and Drainage Layout (3 of 3)

**Drainage Profiles** 

Drainage Details (1 of 2)

Drainage Details (2 of 2)

**Drainage Quantities** 

Construction Area Signs

Stage Construction and Traffic Handling (1 of 3)

Stage Construction and Traffic Handling (2 of 3)

Stage Construction and Traffic Handling (3 of 3)

Detours (1 of 2)

Detours (2 of X2

Pavement Delineation (1 of 2)

Pavement Delineation (2 of 2)

Roadside Sign Plan

Roadway Lighting and Sign Illumination (1 of 2)

Roadway Lighting and Sign Illumination (2 of 2)

Signal and Lighting (1 of 2)

Signal and Lighting (2 of 2)

**Architectural Lighting Details** 

Utility Plan (1 of 2)

Utility Plan (2 of 2)

Planting Plan (1 of 3)

Planting Plan (2 of 3)

Planting Plan (3 of 3)

Planting Details (1 of 2)

Planting Details (2 of 2)

Hardscape Plan (1 of 2)

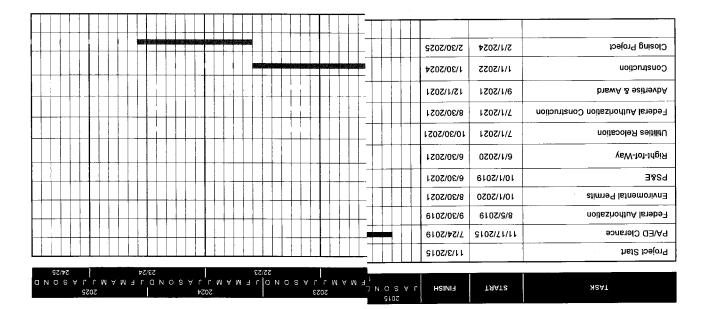
Amendment 1 • Appendix 1A Scope of Work Replacement of Mission Boulevard Bridge at Santa Ana River

Hardscape Plan (2 of 2)
Hardscape Details
Architectural Treatment (1 of 4)
Architectural Treatment (2 of 4)
Architectural Treatment (3 of 4)
Architectural Treatment (4 of 4)

## **AMENDMENT 1 • APPENDIX 1B**

**Project Schedule** 

## PROJECT SCHEDULE



## **AMENDMENT 1 • APPENDIX 1C**

**Fee Proposal** 

## Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071) Fee Proposal Summary

August 14, 2019

COMPANIES	PHASEI	PHASE II	PHASEII	PHASE IV	TOTAL
Kleinfelder Prime, Bridge, Geotechnical, Visual	\$522,414	\$1,705,097	\$29,662	\$200,789	\$2,457,961
LSA Sub consultant - Environmental	\$627,192	\$206,567		\$16,951	\$850,710
Kimley-Harn Sub consultant - Civil	\$372,030	\$526,728		\$26,271	\$925,030
Diaz-Yourman  Sub consultant - Phase II Site Assessment	\$46,409	\$117,892		\$7,533	\$171,834
Tatsumi and Partners Sub consultant - Landscape Architect	\$51,594	\$73,342		\$8,067	\$133,002
Chang Consultants Sub consultant - Bridge Hydraulics	\$35,503	\$77,667		\$3,504	\$116,674
Value Management Strategies Sub consultant - Value Analysis	\$39,797				\$39,797
TOTAL	\$1,694,939	\$2,707,293	\$29,662	\$263,116	\$4,695,009

Phase I PAED (Previously Approved)
Phase II Plans, Specs & Estimates

Phase III Bid Support

Phase IV Construction Support

Cleinfelder	pooless.	SCOPE OF WORK:			1	PHASE:
KICHTEIGER JECT:		Project Summary - II-IV		nansarunew vaponosish		II-IV Phase
Replacement of Mission Boulevard Bridge at San	ita Ana River (Br. No. 56C-0071)		references on the reference of the second of			August 14, 20
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SCHNEL ames Frost	POSITION				PATE	AMOUNT
ames Prost Sami Megally	Project Manager		952	@	\$105.77	\$100,6
Ceith Gazaway	Senior Structural Engineer Senior Bridge Engineer		1,078 380	@	\$83.41 \$71.16	\$89,9 \$27,0
	Senior Bridge Engineer			· W	\$71.16	\$21,0
lganHa Vu	Senior Bridge Engineer		1,568	@	\$55.50	\$87,0
osh Olmedo	Assistant Engineer		960	@	\$36.06	\$34,6
y Brittain	Senior Technician		738	@	\$64.45	\$47,5
(aribia Baillargeon	Deputy Project Manager		1,058	@	\$47.12	\$49,8
aura Anderson	Project Controls		249	@	\$41.35	\$10,2
Robert Torres	Sr. Project Manager/Geotechnical		83	@ .	\$85.34	\$7,0
lia Zafir	Sr. Seismic Engineer		30	@	\$81.92	\$2,4
Kevin Crennan	Sr. Geotechnical Engineer		148	@	\$68.27	\$10,1
cott Rugg	Sr. Geologist		240	@	\$55.77	\$13,3
anna Bonfiglio	Project Geotechnical Engineer		470	@	\$36.54	\$17,1
Salvador Tena	Staff Geotechnical Engineer		338	@	\$33.18	\$11,2
anet Patay	Sr. CADD/GIS		124	@	\$41.84	\$5,1
fiki Muramoto	Project Administrator / Word Processing		60	.@	\$31.00	\$1,8
Christopher Balema	Technical Reviews		8	@	\$64.64	\$5
ohnathan West	3D Design and Visualization Specialist		104	@	\$51.16	\$5,3
inge Sarno	Staff Architect / QA/QC		42	@	\$31.11	\$1,3
Darvadra Huffman	Administrative		3	@	\$31.11	\$
arah Ouadghiri	Administrative		1	@	\$22.16	\$
TIDI IEDS		TOTAL HOURS:	8,634		TOTAL AMOUNT:	\$522,73
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AYROLL ADDITIVES @	173.40%	(of Direct Labor + Escalation) (of Direct Labor + Escalation)				<b>ф</b> 909,00
ROFIT (FIXED FEE)	10.0%	(Of Direct Labor + Escaration)				\$150,65
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cold Rugg         Sr. Geologist         180         © \$55.77         \$3.59           minns Bonfiglio         Project Geotechnical Engineer         280         \$38.54         \$10.2           alwador Tena         Staff Geotechnical Engineer         280         \$38.54         \$10.2           alwador Tena         Staff Geotechnical Engineer         280         \$33.18         \$11.2           anet Palaty         Sr. CADORGIS         124         © \$41.84         \$5.1           Mindrom         Project Administrator / Word Processing         60         \$31.00         \$1.8           Mistingher Balema         Technical Reviews         8         \$6.64         \$8.5           Agrandor         Staff Architect (PACC)         42         © \$31.11         \$1.3           area Garan         Staff Architect (PACC)         42         © \$31.11         \$1.3           area Charles         ToTAL HOURS         7,400         TOTAL AMOUNT.         \$455.5           TEPLEERS         TOTAL HOURS         7,400         TOTAL AMOUNT.         \$455.5           SCALATION @         3.59%         (F Deet Labor) * Escalators         \$10.25         \$10.25           SCALATION @         3.59%         (F Deet Labor) * Escalators         \$10.25         \$10.25		-					
Project Geolechincal Engineer   280		•					
Staff Geotechnical Engineer   338		Sr. Geologist		160	@		\$8,9
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Michael   Project Administrator / Word Processing   60   331 00   313 00	alvador Tena	Staff Geotechnical Engineer		338	@	\$33.18	\$11,2
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Staff Architect / COAQC   42	•	Technical Reviews		8	@	\$64.64	\$5
arradra Huffman Administrative 3 8 \$31.11 \$ \$ arrah Cuadqhin Administrative 4 1 6 \$3.22.16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ohnathan West	3D Design and Visualization	Specialist	104	@	\$51.16	\$5,3
arah Quadghiri Administrative I Q \$22.16 \$  TOTAL HOURS: 7,400 TOTAL AMOUNT: \$455,5  TIPLIERS  SCALATION @ 3.59% (of Direct Labor) (of Dir	nge Sarno	Staff Architect / QA/QC		42	@	\$31.11	\$1,3
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\$828.0		3.59%	(of Direct Labor)		and never the Pillian bereal Millian	ALT is fulfilled to recovery real and compared to the money consus	<b>\$</b> 16,355.
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Bedech - Per Diem	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries illeage	10.0%	(of Direct Labor + Escalation)  GRAFTITY  1098 3294 5 122 14 3600	EA EA EA EA EA EA MI	0 0 0 0 0	\$0.72 \$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545	\$129,9 \$974,3 \$48CUNT \$790. \$790. \$2,247. \$1,400. \$1,962.
eotech - SoCal Drilling eotech - SoCal Drilling 1 ACTUAL @ \$144,110.00 \$144,110.0 eotech - SoClaris (Test/Haz Mat Disposal) 1 ACTUAL @ \$28,425.00 \$28,425.0 eotech - Co's Traffic Control 6 DAY @ \$2,765.00 \$16,590.0 eotech - Cut-N-Core 4 EA @ \$400.00 \$1,600.0 eotech - Tow Truck 10 HR @ \$600.00 \$6,000.0 eotech - Tow Truck 20 DAY @ \$2,500.00 \$7,500.0 eotech - CPL Underground Detection Services 3 DAY @ \$2,500.00 \$7,500.0 eotech - CPL Underground Detection Services 11 EA @ \$250.00 \$7,600.0 eotech - Permits 11 EA @ \$250.00 \$2,750.0 eotech - Permits 11 EA @ \$40,070.00 \$40,070.0 eotech - Lab Testing 1 VARIES @ \$40,070.00 \$40,070.0 eotech - Deck Coring/Demo 1 EA @ \$4,700.00 \$4,700.0 eotech - Deck Repair 1 EA @ \$4,800.00 \$4,800.0  CONSULTANT SERVICES  CONSULTANT SERVICES  TOTAL ODC'S: \$275,130.  TOTAL ODC'S: \$275,130.  CONSULTANT SERVICES  TOTAL ODC'S: \$275,130.  CONSULTANT SERVICES  TOTAL ODC'S: \$275,130.  CONSULTANT SERVICES  TOTAL ODC'S: \$275,130.  TOTAL OD	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries ileage iscellaneous Permit Needs	10.0%	(of Direct Labor + Escalation)  GRAFTITY  1098 3294 5 122 14 3600 1	EA EA EA EA EA EA MI LS	000000	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00	\$129,9 \$974,3 ************************************
eotech - SoClaris (Test/Haz Mat Disposal) eotech - Co's Traffic Control 6 DAY 8 \$28,425.00 \$28,425.00 \$16,590. eotech - Co's Traffic Control 6 DAY 8 \$2,765.00 \$16,590. eotech - Cut-N-Core 4 EA 8 \$400.00 \$1,600. eotech - Tow Truck 10 HR 8 \$600.00 \$6,000. eotech - CPL Underground Detection Services 2 LOCATION 8 \$3,800.00 \$7,600. eotech - Permits 11 EA 8 \$550.00 \$2,750. eotech - Permits 11 EA 8 \$550.00 \$2,750. eotech - Lab Testing 11 VARIES 6 \$40,070.00 \$40,070. eotech - Deck Coring/Demo 11 EA 8 \$4,700.00 \$4,700. eotech - Deck Repair 1 VARIES 8 \$4,000.00 \$4,800.  CONSULTANT SERVICES  EAST SAA Associates #ULTIPLIERS DOC'S TOTAL ASA ASSOCIATES #ULTIPLIERS #ULTIPLIERS DOC'S #ULTIPLIERS #ULT	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries ileage iscellaneous Permit Needs eotech - Mileage	10.0%	(of Direct Labor + Escalation)  GRAFTITY  1098 3294 5 122 14 3600 1	EA EA EA EA EA MI LS MI	000000	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545	\$129,9 \$974,3 ************************************
eotech - Co's Traffic Control eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Cut-N-Core eotech - Cut-N-Core eotech - Tow Truck 10 HR @ \$600.00 \$6,000. eotech - CPL Underground Detection Services 3 DAY @ \$2,500.00 \$7,500. eotech - Geophysical Sub 2 LOCATION @ \$3,800.00 \$7,600. eotech - Permits 11 EA @ \$250.00 \$2,750. eotech - Lab Testing eotech - Lab Testing eotech - Deck Coring/Demo 1 VARIES @ \$40,070.00 \$40,070. eotech - Deck Repair 1 EA @ \$4,800.00 \$4,700. eotech - Deck Repair  TOTAL ODC'S: \$275,130.  CONSULTANT SERVICES  FAIN SA Associates FAIN SA Associates FIGURE STORM \$13,885.56 \$324,456.00 \$64,386.72 \$526,728. az Yourman \$18,040.82 \$46,958.92 \$52,892.50 \$117,892. atsumi and partners \$22,793.06 \$49,687.25 \$861.22 \$73,341.	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries ileage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem	10.0%	(of Direct Labor + Escalation)  GUANTITY  1098 3294 5 122 14 3600 1 1000	EA EA EA EA EA MI LS MI DAY	0000000	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00	\$129,9 \$974,3 ABCUNT \$790. \$790. \$2,247. \$1,400. \$1,962. \$3,000. \$545.
eotech - Cut-N-Core	APROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries illeage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling	10.0%	(of Direct Labor + Escalation)  2CUANTITY 1098 3294 5 122 14 3600 1 1000	EA EA EA EA EA MI LS MI DAY ACTUAL	0 0 0 0 0	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545.
eotech - Tow Truck eotech - Tow Truck eotech - Tow Truck eotech - CPL Underground Detection Services eotech - CPL Underground Detection Services eotech - Geophysical Sub eotech - Geophysical Sub eotech - Permits 11 EA @ \$250.00 \$7,500. eotech - Permits 11 EA @ \$250.00 \$2,750. eotech - Lab Testing 11 VARIES @ \$40,070.00 \$40,070. eotech - Deck Coring/Demo 11 EA @ \$4,700.00 \$4,700. eotech - Deck Repair 11 EA @ \$4,800.00 \$4,800.  **CONSULTANT SERVICES**  **CONSULTANT SERVICES**  **LABOR MULTIPLIERS ODC'S \$275,130. **CONSULTANT SERVICES**  **LABOR MULTIPLIERS ODC'S \$275,130. **EA Associates \$58,880.06 \$133,590.45 \$14,096.50 \$206,567. miley-Horn \$137,885.56 \$324,456.00 \$64,386.72 \$526,728. az Yourman \$18,040.82 \$46,958.92 \$52,892.50 \$117,892. atsumi and partners \$22,793.06 \$49,687.25 \$861.22 \$73,341.	APROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries illeage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCalris (Test/Haz Mat Disposal)	10.0%	(of Direct Labor + Escalation)  COUNTITY  1098 3294 5 122 14 3600 1 1000	EA EA EA EA EA MI LS MI DAY ACTUAL	000000000000000000000000000000000000000	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110.
eotech - CPL Underground Detection Services eotech - Geophysical Sub eotech - Geophysical Sub 2 LOCATION @ \$2,500.00 \$7,500. eotech - Permits 11 EA @ \$250.00 \$2,750. eotech - Lab Testing 1 VARIES @ \$40,070.00 \$40,070. eotech - Deck Coring/Demo 1 EA @ \$4,700.00 \$4,700. eotech - Deck Repair 1 EA @ \$4,800.00 \$4,800.  **CONSULTANT SERVICES**  **CONSULTANT SERVICES**  **LABOR MULTIPLIERS ODC'S \$275,130.  **CONSULTANT SERVICES**  **LABOR MULTIPLIERS ODC'S \$206,567. miley-Horn \$137,885.56 \$324,456.00 \$64,386.72 \$526,728. az Yourman \$18,040.82 \$46,958.92 \$52,892.50 \$117,892. atsumi and partners \$22,793.06 \$49,687.25 \$861.22 \$73,341.	APROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries illeage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoClaris (Test/Haz Mat Disposal) eotech - Co's Traffic Control	10.0%	(of Direct Labor + Escalation)  COUNTITY  1098 3294 5 122 14 3600 1 1000	EA EA EA EA EA MI LS MI DAY ACTUAL	000000000000000000000000000000000000000	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110.
CONSULTANT SERVICES	APROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries ileage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoClaris (Test/Haz Mat Disposal) eotech - Co's Traffic Control eotech - Cut-N-Core	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000 1 1 6	EA EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY	000000000000000000000000000000000000000	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$2,765.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590.
eotech - Permits	ARROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries ileage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Tow Truck	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 6 4	EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA	999999999999	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$2,765.00 \$400.00	\$129.9 \$974,3 AMOUNT \$790. \$790. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600.
### Part	ARROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  Exproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries ileage esotech - Mileage esotech - Per Diem esotech - SoCal Drilling esotech - SoCal Drilling esotech - Co's Traffic Control esotech - Cut-N-Core esotech - Tow Truck esotech - CPL Underground Detection Services	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 6 4 10	EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR	9999999999999	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$2,765.00 \$400.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600.
### Part	ARROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  aproduction (Full Plan Sheets) aproduction (Exhibits, Mounted Graphics) aproduction (Exhibits, Mounted Gr	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 1 6 4 10 3	EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY	000000000000000000000000000000000000000	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$2,765.00 \$600.00 \$2,500.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$6,000.
### Part	ARROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  aproduction (Full Plan Sheets) aproduction (Exhibits, Mounted Graphics) aproduction - Permit Needs aproduction (Exhibits, Mounted Graphics) aprodu	10.0%	(of Direct Labor + Escalation)  COANTITY  1098 3294 5 122 14 3600 1 1000  1 1 0 3 2	EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$2,765.00 \$600.00 \$2,500.00 \$3,800.00	\$129,9 \$974,3 \$974,3 \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,500.
### TOTAL ODC'S: \$275,130.  **CONSULTANT SERVICES**  **CONSULTANT SERVICES**  **CABOR***  **LABOR***  **LABOR***  **LABOR***  **MULTIPLIERS**  **ODC'S***  **TOTAL ODC'S: \$275,130.  **CONSULTANT SERVICES**  **FAIN**  **SA Associates**  **S58,880.06**  **\$133,590.45**  **\$14,096.50**  **\$20,793.06**  **\$137,885.56**  **\$324,456.00**  **\$64,386.72**  **\$526,728.  **az Yourman**  **\$18,040.82**  **\$46,958.92**  **\$52,892.50**  **\$117,892.  **assumi and partners**  **\$22,793.06**  **\$49,687.25**  **\$861.22**  **\$73,341.	APROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries eliveries illeage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Geophysical Sub eotech - Permits	10.0%	(of Direct Labor + Escalation)  309AVITTY 1098 3294 5 122 14 3600 1 1000  1 1 0 3 2 11	EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$400.00 \$600.00 \$2,500.00 \$3,800.00 \$250.00	\$129,9 \$974,3 AHOUNT \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,500. \$7,600.
CONSULTANT SERVICES           FAW         LAGOR         MULTIPLIERS         ODC'S         TOTAL           SA Associates         \$58,880.06         \$133,590.45         \$14,096.50         \$206,567.           mley-Horn         \$137,885.56         \$324,456.00         \$64,386.72         \$526,728.           az Yourman         \$18,040.82         \$46,958.92         \$52,892.50         \$117,892.           atsumi and partners         \$22,793.06         \$49,687.25         \$861.22         \$73,341.	APROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries eliveries illeage eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Tow Truck eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Geophysical Sub eotech - Permits eotech - Lab Testing	10.0%	(of Direct Labor + Escalation)  309AVITTY 1098 3294 5 122 14 3600 1 1000  1 1 0 3 2 11 1	EA EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$400.00 \$600.00 \$2,500.00 \$3,800.00 \$250.00 \$40,070.00	\$129,9 \$974,3 \$974,3 \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,500. \$7,600. \$2,750.
PANY         LABOR         MULTIPLIERS         ODC's         TOTAL           SA Associates         \$58,880.06         \$133,590.45         \$14,096.50         \$206,567.           mley-Horn         \$137,885.56         \$324,456.00         \$64,386.72         \$526,728.           az Yourman         \$18,040.82         \$46,958.92         \$52,892.50         \$117,892.           stsumi and partners         \$22,793.06         \$49,687.25         \$861.22         \$73,341.	ARROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries eliveries eliveries eleage escellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Geophysical Sub eotech - Permits eotech - Lab Testing eotech - Deck Coring/Demo	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 1 0 3 2 11 1 1	EA EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES EA		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$400.00 \$600.00 \$2,500.00 \$250.00 \$40,070.00 \$47,00.00	\$129,9 \$974,3 \$790, \$790, \$250, \$2,247, \$1,400, \$1,962, \$3,000, \$545, \$144,110, \$28,425, \$16,590, \$1,600, \$6,000, \$7,500, \$7,500, \$2,750, \$40,070,
\$A Associates \$58,880.06 \$133,590.45 \$14,096.50 \$206,567 mley-Hom \$137,885.56 \$324,456.00 \$64,386.72 \$526,728. az Yourman \$18,040.82 \$46,958.92 \$52,892.50 \$117,892. atsumi and partners \$22,793.06 \$49,687.25 \$861.22 \$73,341.	ARROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  aproduction (Full Plan Sheets) aproduction (Half Size Sheets) aproduction (Exhibits, Mounted Graphics) ylars aliveries alieage alicage	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 1 0 3 2 11 1 1	EA EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES EA		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$400.00 \$600.00 \$2,500.00 \$3,800.00 \$250.00 \$40,070.00 \$4,700.00 \$4,700.00	\$129,9 \$974,3 \$974,3 \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,500. \$7,600. \$2,750. \$40,070. \$4,700.
mley-Hom \$137,885.56 \$324,456.00 \$64,386.72 \$526,728. az Yourman \$18,040.82 \$46,958.92 \$52,892.50 \$117,892. atsumi and partners \$22,793.06 \$49,687.25 \$861.22 \$73,341.	APROLL ADDITIVES @ ROFIT (FIXED FEE)  ER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries eliveries illeage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Ceophysical Sub eotech - Lab Testing eotech - Deck Coring/Demo eotech - Deck Repair	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 1 6 4 10 3 2 11 1 1 1	EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES EA EA		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$28,425.00 \$28,425.00 \$400.00 \$600.00 \$2,500.00 \$250.00 \$40,070.00 \$4,700.00 \$4,700.00 \$4,800.00	\$129,9 \$974,3 \$790, \$790, \$250, \$2,247, \$1,400, \$1,962, \$3,000, \$545. \$144,110, \$28,425, \$16,590, \$1,600, \$7,500, \$7,500, \$7,600, \$2,750, \$40,070, \$4,700, \$4,800.
iaz Yourman \$18,040.82 \$46,958.92 \$52,892.50 \$117,892 atsumi and partners \$22,793.06 \$49,687.25 \$861.22 \$73,341	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  IER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliliveries illeage iscellaneous Permit Needs eotech - Mileage eotech - Per Diern eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Geophysical Sub eotech - Permits eotech - Deck Coring/Demo eotech - Deck Repair  CONSULTANT SERVICES	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 1 1 6 4 10 3 2 11 1 1 1	EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES EA EA	000000000000000000000000000000000000000	\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$28,425.00 \$28,425.00 \$400.00 \$600.00 \$2,765.00 \$400.00 \$2,500.00 \$2,500.00 \$4,700.00 \$4,700.00 \$4,800.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,500. \$7,600. \$2,750. \$40,070. \$4,700. \$4,800.
atsumi and partners \$22,793.06 \$49,687.25 \$861.22 \$73,341.	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  IER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliliveries illeage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Geophysical Sub eotech - Deck Coring/Demo eotech - Deck Repair  CONSULTANT SERVICES  FAIN SA Associates	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 1 6 4 10 3 2 11 1 1 1 1 1	EA EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES EA EA		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$400.00 \$600.00 \$2,500.00 \$250.00 \$40,070.00 \$4,700.00 \$4,800.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,500. \$7,600. \$2,750. \$40,070. \$4,700. \$4,700. \$4,800.
	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  IER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) tylars eliveries ilideage liscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Permits eotech - Lab Testing eotech - Deck Coring/Demo eotech - Deck Repair	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 1 6 4 10 3 2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EA EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES EA EA  MULTIPLIERS \$133,590.46 \$324,456.00		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$400.00 \$600.00 \$2,500.00 \$2500.00 \$40,070.00 \$4,700.00 \$4,700.00 \$4,800.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,600. \$7,600. \$2,750. \$4,700. \$4,700. \$4,700. \$4,700. \$275,130.
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  IER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries ileage iscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Co's Traffic Control eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Permits eotech - Lab Testing eotech - Deck Repair  CONSULTANT SERVICES PANY SA Associates mley-Horn iaz Yourman	10.0%	(of Direct Labor + Escalation)  GUANTITY  1098 3294 5 122 14 3600 1 1000  1 1 1 6 4 10 3 2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EA EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES EA EA  MULTIPLIERS \$133,590.45 \$324,456.00 \$46,958.92		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$400.00 \$600.00 \$2,765.00 \$400.00 \$2,500.00 \$40,070.00 \$4,700.00 \$4,800.00 TOTAL ODC'S:	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,600. \$7,600. \$2,750. \$4,700. \$4,700. \$4,700. \$4,700. \$4,700.
	AYROLL ADDITIVES @ ROFIT (FIXED FEE)  IER DIRECT COSTS  eproduction (Full Plan Sheets) eproduction (Half Size Sheets) eproduction (Exhibits, Mounted Graphics) ylars eliveries ilileage liscellaneous Permit Needs eotech - Mileage eotech - Per Diem eotech - SoCal Drilling eotech - SoCal Drilling eotech - Co's Traffic Control eotech - Cut-N-Core eotech - Tow Truck eotech - CPL Underground Detection Services eotech - Bermits eotech - Lab Testing eotech - Deck Coring/Demo eotech - Deck Repair	10.0%	(of Direct Labor + Escalation)  1098 3294 5 122 14 3600 1 1000  1 1 1 6 4 10 3 2 11 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	UNIT EA EA EA EA EA MI LS MI DAY ACTUAL ACTUAL DAY EA HR DAY LOCATION EA VARIES EA EA  MULTIPLIERS \$133,590.44 \$324,456.00 \$46,958.92 \$49,687.25		\$0.72 \$0.24 \$50.00 \$18.42 \$100.00 \$0.545 \$3,000.00 \$0.545 \$188.00 \$144,110.00 \$28,425.00 \$400.00 \$600.00 \$2,765.00 \$400.00 \$250.00 \$47,700.00 \$4,700.00 \$4,700.00 \$4,800.00	\$129,9 \$974,3 AMOUNT \$790. \$790. \$250. \$2,247. \$1,400. \$1,962. \$3,000. \$545. \$144,110. \$28,425. \$16,590. \$1,600. \$7,500. \$7,600. \$2,750. \$4,700. \$4,700. \$4,800. \$275,130.

COMPANY:		SCOPE OF WORK:			PHASE:
Kleinfelder		Bid Support			Phase III
ROJECT:	and the second s		THE CONTRACT CONTRACT AND STATE CONTRACT CONTRACT AND STATE CONTRACT CONTRA	Market de California de Companya de California de Californ	DATE:
Replacement of Mission Boulevard Bridge at S	anta Ana River (Br. No. 56C	-0071)	- out as was the source of outland. He will represent the high representation	en en en gregoen neuen en e	August 14, 201
IRECT LABOR					
ERSONNE L	1000		HOURS	RATE	AMCUAT
James Frost	Project Manager		20	@ \$105.77	\$2,115.4
Sami Megally	Senior Structural Engineer			\$83.41	
Keith Gazaway	Senior Bridge Engineer		40	@ \$71.16	\$2,846.4
NganHa Vu	Senior Bridge Engineer			\$55.50	
Josh Olmedo	Assistant Engineer		20	@ \$36.06	\$721.
Ty Brittain	Senior Technician		20	@ \$64.45	•
Karibia Baillargeon	Deputy Project Manager		40	@ \$47.12	* .,===
Laura Anderson	Project Controls		40	@ \$41.35	
Robert Torres		!1	4	- ·	
Zia Zafir	Sr. Project Manager/Geotecl	inical		\$85:34 \$81.92	
Kevin Crennan	Sr. Seismic Engineer			• • • •	
	Sr. Geotechnical Engineer			\$68.27	
Scott Rugg	Sr. Geologist			\$55.77	
Janna Bonfiglio	Project Geotechnical Engine	er		\$36.54	
Salvador Tena	Staff Geotechnical Engineer			\$33.18	
Janet Patay	Sr. CADD/GIS			\$41.84	
Miki Muramoto	Project Administrator / Word	Processing		\$31.00	
Christopher Balerna	Technical Reviews	Trocessing		\$64.64	
Johnathan West	3D Design and Visualization	Specialist		\$51.16	
Ange Sarno	Staff Architect / QA/QC	Specialist		\$31.11	
Darvadra Huffman	Administrative			\$31.11	
Sarah Quadghiri				·	
Jaran Guaugiiii	Administrative			\$22.16	
			- non-unumannikassan saminuma sahihman intuskinisminikasin (Kunin (Unimita))		
ULTIPLIERS		TOTAL HOURS:	144	TOTAL AMOUNT:	\$9,022.2
ESCALATION @	8.50%	(of Direct Labor)	turnounded transport of the control officers are the hone to ever control or	en nomen and the desired desired and the converse of the second s	\$766.8
OVERHEAD @ (60.34% Fringe + 115.12% OH) = 175.46%	175.46%	(of Direct Labor + Escalation)			\$17,175.9
PAYROLL ADDITIVES @	110.4070	(of Direct Labor + Escalation)			, 411,173.
PROFIT (FIXED FEE)	10.0%	(or Direct Labor + Escalation)			\$2,696.5
A THE STATE OF THE	M HAPPETTOORAN MARKET ARREST MARKET TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL THE TOTAL TOTAL TOTAL TOTAL TO THE TOTAL THE	* TO THE REPORT OF THE PROPERTY OF THE PROPERT	and the second s	TOTAL MULTIPLIERS:	MATERIAL PROPERTY OF THE PROPE
THER DIRECT COSTS	· Billed at Actual Cost · · ·				
TIEM		DEARTHY	i e t		
	atteriories e entrata entrata en en entrata incluidad entrata en 1900 en 1900 en 1900 en 1900 en 1900 en 1900 e	· · · · · · · · · · · · · · · · · · ·	responsable to the first service of the North Albert 1820 and 1880 through the service of the State of the St	TOTAL ODC'S:	
UB CONSULTANT SERVICES COMPANY					
Service (Inc.)		ABOR	MULTIPLIERS		
			TOTAL OUROO	NSULTANT SERVICES:	**************************************

TOTAL

\$29,661.52

FEE PROPOSAL WORKSHEET

MPANY:		SCOPE OF WORK:		Ar the Breat - Architecture		PHASE:	
Kleinfelder		Construction Support					ase IV
DJECT: Replacement of Mission Boulevard Bridge at San	to Ann Diver (Dr. No. ECC A	074)				DATE:	44 2040
Teplacement of Mission Doulevalu Bruge at Sall	ta Atla River (DI. No. 30C-0	V/ I)		Parg C. Nata Material Commission of	and the second s	Augus	t 14, 2019
ECT LABOR	000F00400 1504 00000000000 100 0000000000000		**************************************	oler managementalis		Nove Charles Control National	
RSONNEL	Codi		HOURS	11.	7,175		орит
James Frost	Project Manager		80	@	\$105.77		\$8,461.6
Sami Megally	Senior Structural Engineer				\$83.41		
Keith Gazaway	Senior Bridge Engineer		100	@	\$71.16		\$7,116.0
NganHa Vu	Senior Bridge Engineer		200	@	\$55.50		\$11,100.0
Josh Olmedo	Assistant Engineer		200	@	\$36.06		\$7,212.0
Ty Brittain	Senior Technician		40	@	\$64.45		\$2,578.0
Karibia Baillargeon	Deputy Project Manager		100	@	\$47.12		\$4,712.0
Laura Anderson	Project Controls		60	@	\$41.35		\$2,481.0
Robert Torres	Sr. Project Manager/Geotech	nnical	20	@	\$85.34		\$1,706.8
Zia Zafir	Sr. Seismic Engineer				\$81.92		
Kevin Crennan	Sr. Geotechnical Engineer		20	@	\$68.27		\$1,365.4
Scott Rugg	Sr. Geologist		80	@	\$55.77		\$4,461.6
Janna Bonfiglio	Project Geotechnical Engine	er	190	@	\$36.54		\$6,942.6
Salvador Tena	Staff Geotechnical Engineer			_	\$33.18		
Janet Patay	Sr. CADD/GIS				\$41.84		
Miki Muramoto	Project Administrator / Word	Processina			\$31.00		
Christopher Balerna	Technical Reviews				\$64.64		
Johnathan West	3D Design and Visualization	Specialist			\$51.16		
Ange Samo	Staff Architect / QA/QC	- Prosidence			\$31.11		
Darvadra Huffman	Administrative		•		\$31.11		
Sarah Ouadghiri	Administrative				\$22.16		
· ·					,		
	haranda kala kala kala kala kala kala kala ka	TOTAL HOURS:	1,090	TO <sup>-</sup>	TAL AMOUNT:	vicent description and a second se	\$58,137.0
LTIPLIERS							
ESCALATION @	12.19%	(of Direct Labor)	gggorogy-sak-ronn (n.). Anacosa pomodnianakanan		ann an ear ar comhlain ann dearthadaire deiseann e ann ann	andrews corrections	\$7,085.4
OVERHEAD @ (60.34% Fringe + 115.12% OH) = 175.469	175.46%	(of Direct Labor + Escalation)				\$	114,439.3
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)					
PROFIT (FIXED FEE)	10.0%	,					\$17,966.1
AND THE STATE OF T	el meneron con commencial menerol del colonida como en colonida menerologico de en un companyo de la companyo	The second of the second secon	annon ang italian karawa an anta ana ang ang ang ang	TOTAL	MULTIPLIERS:	Andreas - Contract - C	139,490.9
HER DIRECT COSTS	· · · Billed at Actual Cost · · ·						
		00/40000	UNT		er cost		OUNT
Mileage		4800	MI	@	\$0.545		\$2,616.0
Geotech Breakdown Attached		1000	MI	@	\$0.545		\$545.0
	manana san sanny gangan mang tapa sandahidah kepamban sandah dari pengkanahah dari Manis sandahan	jarups, edjarum pjennigan judgaja prijerijak urblindaddhedra vaddible ar dhillida (kobabba bila balindad	<ul> <li>6-00-4000 (00 0 000004000)</li> <li>7-0000000-40000000</li> </ul>	************	TOTAL ODC'S:	and Miller Street A real All and a service of Street and	\$3,161.0
B CONSULTANT SERVICES							
MPANY		3.12.012			ODCS		OTAL.
LSA Associates	CO. Commence of the Commence o	\$4,721.26	\$12,229.96				\$16,951.2
Kimley-Hom		\$7,095.60	\$19,175.8				\$26,271.4
Diaz Yourman		\$1,921.28	\$5,611.4				\$7,532.7
Tatsumi and partners		\$2,290.62	\$5,776.20				\$8,066.8
			\$2,205.69				\$3,504.4

TOTAL SUBCONSULTANT SERVICES:

TOTAL

\$62,326.70

\$263,115.62

WANDUR WORKSHEET COMPANY:	The second secon	HASE
Kleinfelder	ımmary	II-IV Phases
TREFFERENCE PROFESSIONAL PROFESSIONAL STATES AND STATES. THE PLAN AND STATES	and design to the second and a second control of the second control of the second design and the second design	ATE.
Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	r. No. 56C-0071)	August 14, 2019

MANNOUR WORKERIEST
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SCOPE CF WORK
Refelder
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Plans, Specs & Estimates
Plans, P

		TOTAL DESIGNATION OF THE PROPERTY OF THE PROPE			100000000000000000000000000000000000000		Same.	2772.77.1		To address of the control of the con			TO THE OWNER OF THE OWNER OWNER OF THE OWNER		CONTRACTOR CONTRACTOR	WHICH THE PROPERTY	100
Total Manhours	852 1,078 2	240 1,368	740	678 918	185	63 30	128	160 2	280 338	Critical I	124 (	8 09	104	42	3 1	7,400	455,572
Article All - Project Administration			de la constante de la constant											or some some some some some some some some			
A. Project Management												-		<u> </u>			
Project Management	300			300												900	\$ 45,867
Project Management Plan / Work Plan	20			40			A. S.								arabatin, in	99	\$ 4,000
Project Chronology	16		Secretaria de la composición del composición de la composición de la composición del composición de la composición de la composición del composición de la composición del composición del composición de la composición del composición del composición del composición del composición del composición del	36												52	\$ 3,389
B, Budgeting												hatedorium		in the second			-
Project Budgeting	36				36											72	\$ 5,296
Project Cost Accounting	26		1.41.0		90	or contract and the state of th					***************************************					ş	1
D. Scheduling	3				8	Charles and the make a second of										7,	967'C &
Project Scheduling	18			36	ļ						***************************************					74	3 600
E. Progress Reporting						The state of the s				+	and the second second	Total district	***************************************		-		1
Progress Reporting	18			36												54	\$ 3,600
F. Contract Administration											-	-					AND THE REAL PROPERTY.
Contract Administration Services	36				54								Charles and Charle			6	\$ 6,041
G. Deliverables								ļ									
Per Specific Items					an indicate waster wide.	MANAGEMENT OF THE PARTY OF THE	and the second										
Article Alll - Planning and Proj. Dev.	a de la companya de l																
A. Research and Data Gathering																	
Obtain Updated Project Information																	
B. Project Development Team																	
Monthly PDT Meetings	72 72			72												216	\$ 17,014
C. Permits				-		i i		and the second									
Encroachment and Right-of-Entry Permits	8			4				1						-		16	\$ 1,348
D. Design Surveys			-	Consumption on consumptions				+						-	alt Million and the Whole and the Million		
Coordinate with County Survey	4			4		-			-							•	\$ 612
E. Final Drainage and Bridge Hydraulics		*							-				***************************************				TO SERVICE STATE OF THE PERSON STATE OF THE PE
Final On-Site Drainage Report	80 (			4		and any discussion of the second										12	\$ 856
Update Final IPG	8			4						-						12	
Final Bridge Hydraulics Report				4					- Control of the Cont				m		-	4	\$ 188
Draft and Final SW/DDP																•	
G Phase I Site Accesment				r	and the same of th	The state of the s					-			-		4	00 -
Data Review, Permitting, Utility Clearance																	-
Hazardous Materials Field and Lab Testing														-	-		Annual Contract of the second
Draft and Final Phase II Site Assessment				4			-		92		The second second					20	\$ 719
H. Final Geotechnical Design				and the second contract of				-			-	-			-		
Draft and Final Materials Report						8	24	A COMPANY				2		-		148	\$ 6,528
GDR inc, Field Investigation						22	40					8			The second secon	420	\$ 18,346
Draft and Final Foundation Report						25 30	4	20	100 70		20	14	The state of the s	-		399	3
ROE/Encroachment Coordination	2			80		<b>8</b> 0	24					9				210	1
I. Architectural Details and Simulations												-					
Final Architectural Details and Coord.																	
Bridge Visual Simulations			PT. 4 PT&-									8	104	42	3 1	158	\$ 7,260
Community Meetings														the distribution of the di	4.	-	The state of the s
J. Corps 408 Permit																	
Section 408 Permit	20			16 160												196	\$ 10,686
K, Final ROW Documents		part and			ļ					-				The Manual Parks			The second secon

Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	Ana River (Br. No.	.56C-0071)				DATE						A service and a		
	Apart construction and a second secon	ALTO CONTRACTO CONTRACTOR OF THE CONTRACTOR OF T	THE PROPERTY OF THE PROPERTY O		ATTENDED TO THE THE PART AND TH	Augus	August 14, 2019	***************************************						
			189 a								13. 13.			
First DOM Echible	Coll March College College (1987) The College	4. 14.								and the state of t			<b>980</b>	
Final KOW Exhibits				4									? *	188
Utility Letters				+									and the same of th	
Potholing Summary				4									4 \$	188
Final Utility Plans				4										446
M. Misc. Design Support	40 30		20		11								231 \$	14,943
Updated Fact Sheet Traffic Management Plan				V									7	188
Article AIV - Structures														3
A. Structural Design and Calculations														
Complete Structural Design	120 500	0	009		16		\$10.00 miles			-			1,236 \$	76,695
B. Independent Check and Quality Control	time in the second seco													The second second
Perform Structures IC and QC		160	009			A							760 \$	44,686
C. Structures Specifications and Estimate		***************************************			ROTTED DO CHETTON OF THE AMOUNT OF THE OFFICE OF THE OFFI									
Develop Specifications and Estimate	8		120 120										288 \$	15,170
Drawn E. Coll Locked DOOF	Section 1		160	950	,	- † -							j	910 01
Prepare 90% Checked PS&F	32 96		00	300	4 «	-							360 \$	25 200
Prepare 95% PS&E	16 80		80	79	> 00					1	-		-pm	17.261
Prepare Final PS&E		+	64	32	4	Maria and the Agents and	in the second se	and a society of a society of a society	descriptions of the second sec			-	180 \$	12,810
RE Pending File		2	32	16	80								\$ 09	3,516
Article AV - Roadway														or age of the same
A. Basic Roadway Plans				3.000						-				
C. Drainage Plans														
D. Traffic Plans													-	
E. Miscellaneous Plans	8		160	16	Action of the second se								184 \$	10,578
F. Intermediate Reviews					E TOUR MAN TO THE TOUR TO THE									
G. Specifications and Estimate	2		20 20										42 \$	1,998
H. Quality Control	AND DEPOSITE OF THE PARTY OF TH	and the second s												
I. Draft PS&E (95% Complete)			8	4						***************************************			12 \$	797
J. Final PS&E (100% Complete)			8	4						ar a new construction of the construction of t			12 \$	702
Article AVI - Env. Permits and Mitigation Plan										201				Į
P. USACE Section 404 Permit (Section Borings)				0 0									<i>p</i> •	1
C. CDEW Section 1602 Arms (Geotech Borings)				0 @		1							o 0	32.
O. CDT W Securit 1902 Agila (Sected) Bullings)				0 (									0 0	115
E. Mast Survey and Danot (Prior to Georges)				7	-	1			+		-		* *	<b>4</b>
F. Plant Survey and Report (Prior to Geotech Borings)				• •									4 .	8 6
G. Biological Monitoring of Geotech Borings (10 days)				7									• •	2 8
H, HMMP (On-Site Mitigation)		-		2									2	76
I. Coordination (Off-Site Mitigation)				2	Control of the Contro								2 5	. 4
J. Off-Site (Bat Habitat) Coordination & Design	-			2									2 \$	94
K. LSA HMMP (Off-Site Mitigation)				2								-	2 \$	8
L. Section 404 Permit (Construction)				80									8	377
M. Section 401 Cert (Construction)				80									8	377
N. CDFW Section 1602 Agmt (Construction)				•	and the second s		The same of the sa						8	377
Article AVII - Construction Bidding Phase					To be a second s									
A. Construction Bidding Phase													Decrease.	Carles are an annual and an annual and an annual and an
Article AVIII - Construction Support Phase									Account For					

Kleinfelder		SCOPE OF WORK		PHASE					
		Plans, Specs & Estimates		Phase II					
PROJECT Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	na River (Br. No. 56C-0071)			DATE. August 14, 2019	THE REAL PROPERTY AND THE PROPERTY OF THE PROP		Management of the second control of the seco		
A. Construction Support Phase		THE PROPERTY CONTRACTOR OF THE PROPERTY OF THE		AL ANDRES	P Colon Sun		Part I Tobaco	Programmy of	
Article AIV - Computer Services			The state of the s						
A. Calculations		- Andrews - Andr							
B. CADD									Later-
Article AVV - Quality Control Plan					***************************************	The state of the s			
A. Quality Management Plan	, 80	20							104 \$ 7,058

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MALLINGT WORKSHEET COMPANY Kleinfelder				SCOPE OF WORK: Bid Support	er.			PHASE	PHASE: Phase III										
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	anta Ana River (	Br. No. 56C-0071						DATE	E. August 14, 2019	•									
				4°2								es est							`
Total Manhours	20	64	857.5	20	20	40	5 8	27.47	8	7.75	84.1%	196 (186).	821.75	501.10	401.17	53.11	41	144 9,0	9,022
Article AVII - Construction Bidding Phase	VC.	70		CC	S	7											777		0 000
Article AVIII - Construction Support Phase A. Construction Support Phase	2	2																•	1
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		TOTAL AND					Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	August 14, 2019							
	en de la companya de Referencia de la companya de l		200												
Total Manhours	80	100	200	200 40	100	60 20	20	. 80	190	2	\$31.00	\$1.16	2	1,090	58,137
Article AVII - Construction Bidding Phase A. Construction Bidding Phase Article AVIII - Construction Sunnort Phase															
A. Construction Support Phase	80	100	200	200 40	100	60 20	20	08	190					1,090	\$ 58,137
	200000000000000000000000000000000000000	111111111111111111111111111111111111111													
A CANADA A MALANA A ANAMANANA A ANAMANANA ANAM															
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MPANY: SA Associates	<u> </u>	SCOPE OF WORK:				PHASE: II-IV Phases
OJECT:		Project Summary		***********		DATE:
teplacement of Mission Boulevard Bridge at Sai	nta Ana River (Br. No. 56C-0071)					August 14, 2019
RECT LABOR						
RSONNEL	POSTION :		HOURS		RATE	AMCUNT
Rob McCann	Principal In Charge		4	@	\$115.83	\$463.3
Wendy Davis	Environmental Task Manger		280	@	\$52.03	\$14,568.4
Art Homrighausen	Principal Technical Staff		58	@	\$77.63	\$4,502.5
Laurel Frakes	Associate Technical Staff		366	@	\$46.48	\$17,011.6
Jill Carpenter	Senior Technical Staff		244	@	\$41.96	\$10,238.2
Lonnie Rodriguez	Technical Staff		134	@	\$35.67	\$4,779.7
Leeann McDougall	Assistant Technical Staff		8	@	\$28.32	\$226.5
Steve Dong	Word Processing		60	@	\$35.10	\$2,106.0
Tom Flahive	GIS		115	@	\$47.63	\$5,477.4
Maria Perez	Administrative Support		23	@	\$21.41	\$492.4
Anthony Greco	Senior Technical Staff		88	@	\$35.77	\$3,147.7
Jodi Ross	Principal Technical Staff		12	@	\$48.93	\$587.1
		TOTAL HOURS:	1,392		OTAL AMOUNT:	\$63,601.3
JLTIPLIERS		TOTAL HOURS.	1,392		OTAL AMOUNT.	\$63,601.3
ESCALATION @		(Rates Vary by Phase)	namenter mandamin versionis del dals estronye e del 11.1898/e describe	************	***************************************	\$2,945.3
OVERHEAD @ (90.43% Fringe + 95.66% OH) = 186.09	9 186.09%	(of Direct Labor + Escalation	nn)			\$123,836.7
PAYROLL ADDITIVES @		(of Direct Labor + Escalation				,
PROFIT (FIXED FEE)	10.0%	(of Total Labor + Total Mul	-			\$19,038.3
The state of the s	agenting glass agenting on a particular signing of physicon are necessarily and account of the Scribbs Methodology of the second	THE PROPERTY OF THE PROPERTY O		TOTAI	MULTIPLIERS:	\$145,820.4
HER DIRECT COSTS	· · · Billed at Actual Cost · · ·					
		SUANTEY			INTEREST	AMOUNT
Mileage		1000	MI	@	\$0.545	\$545.00
Printing		600	EA	@	\$0.10	\$60.0
Mailing		20	EA	@	\$10.00	\$200.00
Section 401 Application Fee for =<0.1 acre fill mat	erial	2	APPLICATION FEE	@	\$1,500.00	\$3,000.00
Section 1602 Notification Fee (maximum fee)		2	NOTIFICATION FEE	@	\$5,145.75	\$10,291.5
		and the state of the contract many to the later magnetic and the state of a public memoraphic proper.	generation in the contract of	ALLE STATE OF THE	TOTAL ODC'S:	\$14,096.5
B CONSULTANT SERVICES				7.1.5		
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SA		Plans, Specs & Estimat	es			Phase II
ROJECT: Replacement of Mission Boulevard Bridge at	Santa Ana River (Br. No. 56C-00	71)				DATE: August 14, 2019
RECT LABOR	тория на дом при принципания в на	oorasiin - Tyroonaasia siiteenii waasaa ta'ee hii iyogoonaadoonaa inki, oo oo oo oo ahkii tariiga oo oo oo oo o	der Contra en reconocio de entre en			<u> </u>
RSONNEL	OSII	en e	elojerske ji	7		AMOUNT
Rob McCann	Principal In Charge		4	@	\$115.83	\$463.32
Wendy Davis	Environmental Task Manger		256	@	\$52.03	\$13,319.6
Art Homrighausen	Principal Technical Staff		48	@	\$77.63	\$3,726.2
Laurel Frakes	Associate Technical Staff		356	@	\$46.48	\$16,546.8
Jill Carpenter	Senior Technical Staff		234	@	\$41.96	\$9,818.6
Lonnie Rodriguez	Technical Staff		134	@	\$35.67	\$4,779.7
Leeann McDougall	Assistant Technical Staff		8	@	\$28.32	\$226.5
Steve Dong	Word Processing		60	@	\$35.10	\$2,106.0
Tom Flahive	GIS		107	@	\$47.63	\$5,096.4
Maria Perez	Administrative Support		23	@	\$21.41	\$492.4
Anthony Greco	Senior Technical Staff		48	@	\$35.77	\$1,716.9
Jodi Ross	Principal Technical Staff		12	@	\$48.93	\$587.1
The state of the s	Control of the Contro		KTOBEKSHILING PERSENCERANDAR MENUTUR PROPERTY SIMPLEY POPPER PERSENCE	der er e	halo cingle independent contraction of the con-	e en destad a haden helden summerdadent aanderen lied albem en van seen velke en en een e
II TIDI IEDO		TOTAL HOURS:	1,290	TOTAL	. AMOUNT:	\$58,880.0
JLTIPLIERS  ESCALATION @	2 970/		1,290	TOTAL	AMOUNT:	- André de l'intérior alambié de del dissipation de encreans con conse sum se consection
ESCALATION @	3.87%	(of Direct Labor)	monamana adalahan jaga karangan karangan karangan karangan karangan karangan karangan karangan karangan karang	TOTAL	- AMOUNT:	\$2,280.1
ESCALATION @ OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18		(of Direct Labor) (of Direct Labor + Escalation	,	TOTAL	- AMOUNT:	\$58,880.0 \$2,280.1 \$113,813.0
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18  PAYROLL ADDITIVES @	36.09% 186.09%	(of Direct Labor)	,	TOTAL	AMOUNT:	\$2,280.1 \$113,813.0
ESCALATION @ OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18		(of Direct Labor) (of Direct Labor + Escalation	,	TOTAL MUI		\$2,280.1 \$113,813.0 \$17,497.3
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18  PAYROLL ADDITIVES @	36.09% 186.09%	(of Direct Labor) (of Direct Labor + Escalation	,			\$2,280.1 \$113,813.0 \$17,497.3
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18 PAYROLL ADDITIVES @ PROFIT (FIXED FEE)	186.09% 10.0%	(of Direct Labor) (of Direct Labor + Escalation	,	TOTAL MUI		\$2,280.1 \$113,813.0 \$17,497.3 \$133,590.4
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18 PAYROLL ADDITIVES @ PROFIT (FIXED FEE)  THER DIRECT COSTS	186.09% 10.0%	(of Direct Labor) (of Direct Labor + Escalation (of Direct Labor + Escalation	n)	TOTAL MUI	LTIPLIERS:	\$2,280.1 \$113,813.0 \$17,497.3 \$133,590.4
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18  PAYROLL ADDITIVES @  PROFIT (FIXED FEE)  THER DIRECT COSTS	186.09% 10.0%	(of Direct Labor) (of Direct Labor + Escalation (of Direct Labor + Escalation	n) n) UNIT	TOTAL MUI	LTIPLIERS:	\$2,280.1
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18  PAYROLL ADDITIVES @  PROFIT (FIXED FEE)  THER DIRECT COSTS  1  Mileage	186.09% 10.0%	(of Direct Labor) (of Direct Labor + Escalation (of Direct Labor + Escalation account	unt	TOTAL MUI	LTIPLIERS: COST \$0.545	\$2,280.1 \$113,813.0 \$17,497.3 \$133,590.4 AMOUNT, \$545.0
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18 PAYROLL ADDITIVES @ PROFIT (FIXED FEE)  THER DIRECT COSTS  I) Mileage Printing	186.09% 186.09% 10.0% Billed at Actual Cost	(of Direct Labor) (of Direct Labor + Escalation (of Direct Labor + Escalation  1000 1000 1000 1000 1000 1000 1000 1	UNIT MI EA	TOTAL MUI	COST \$0.545 \$0.10	\$2,280.1 \$113,813.0 \$17,497.3 \$133,590.4 **MOUNT: \$545.0 \$60.0 \$200.0
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18  PAYROLL ADDITIVES @  PROFIT (FIXED FEE)  THER DIRECT COSTS  I Mileage Printing Mailing	186.09% 186.09% 10.0% Billed at Actual Cost	(of Direct Labor) (of Direct Labor + Escalation (of Direct Labor + Escalation 1000 1000 1000 1000 1000 1000 1000 10	unit Mi EA EA	TOTAL MUI UNIT @ @ @ @	COST \$0.545 \$0.10 \$10.00	\$2,280.1 \$113,813.0 \$17,497.3 \$133,590.4 AMOUNT: \$545.0 \$60.0 \$200.0 \$3,000.0
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18 PAYROLL ADDITIVES @ PROFIT (FIXED FEE)  THER DIRECT COSTS  1.  Mileage Printing Mailing Section 401 Application Fee for =<0.1 acre fill	186.09% 186.09% 10.0% Billed at Actual Cost	(of Direct Labor) (of Direct Labor + Escalation (of Direct Labor + Escalation 1000 1000 1000 1000 1000 1000 1000 10	UNIT MI EA EA APPLICATION FEE	TOTAL MUI UNIT @ @ @ @	COST \$0.545 \$0.10 \$10.00 \$1,500.00	\$2,280.1 \$113,813.0 \$17,497.3 \$133,590.4 AMOUNT: \$545.0 \$60.0 \$200.0 \$3,000.0
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18 PAYROLL ADDITIVES @ PROFIT (FIXED FEE)  THER DIRECT COSTS  1.  Mileage Printing Mailing Section 401 Application Fee for =<0.1 acre fill	186.09% 186.09% 10.0% Billed at Actual Cost	(of Direct Labor) (of Direct Labor + Escalation (of Direct Labor + Escalation 1000 1000 1000 1000 1000 1000 1000 10	UNIT MI EA EA APPLICATION FEE	TOTAL MUI @ @ @ @ @	COST \$0.545 \$0.10 \$10.00 \$1,500.00	\$2,280.1 \$113,813.0 \$17,497.3 \$133,590.4 AMOUNT, \$545.0 \$60.0
ESCALATION @  OVERHEAD @ (90.43% Fringe + 95.66% OH) = 18 PAYROLL ADDITIVES @ PROFIT (FIXED FEE)  THER DIRECT COSTS  1.  Mileage Printing Mailing Section 401 Application Fee for =<0.1 acre fill	186.09% 186.09% 10.0% Billed at Actual Cost	(of Direct Labor) (of Direct Labor + Escalation (of Direct Labor + Escalation 1000 1000 1000 1000 1000 1000 1000 10	UNIT MI EA EA APPLICATION FEE	TOTAL MUI @ @ @ @ @	COST \$0.545 \$0.10 \$10.00 \$1,500.00 \$5,145.75	\$2,280.1 \$113,813.0 \$17,497.3 \$133,590.4 **MOUNT \$545.0 \$60.0 \$200.0 \$3,000.0 \$10,291.5

TOTAL \$206,567.01

DMPANY: SA Associates		SCOPE OF WORK: Construction Support				PHASE: Phase IV
ROJECT: Replacement of Mission Boulevard Bridge at Sa	nta Ana River (Br. No. 56C-007	enter en	322-944-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Colored Annie (Annie Annie	30000000000000000000000000000000000000	DATE: August 14, 2019
RECT LABOR	1988 ERF 1879 DE 798 ERBANDE DE 1879 DE 1984 DE 1979 DE 1885 DE 1986 DE 1986 DE 1986 DE 1986 DE 1986 DE 1986 D	regarged to contact the control of t	A MARINE STATE OF THE STATE OF		an anno no orang na managana anno ang ang ana an	generative and a section of the sect
RSONNEL	POSIT	ON	101125		RATE	AMOUNT
Rob McCann	Principal In Charge				\$115.83	
Wendy Davis	Environmental Task Manger		24	@	\$52.03	\$1,248.72
Art Homrighausen	Principal Technical Staff		10	@	\$77.63	\$776.30
Laurel Frakes	Associate Technical Staff		10	@	\$46.48	\$464.80
Jill Carpenter	Senior Technical Staff		10	@	\$41.96	\$419.60
Lonnie Rodriguez	Technical Staff			_	\$35.67	
Leeann McDougall	Assistant Technical Staff				\$28.32	
Steve Dong	Word Processing				\$35.10	
Tom Flahive	GIS		8	@	\$47.63	\$381.04
Maria Perez	Administrative Support				\$21.41	
Anthony Greco	Senior Technical Staff		40	@	\$35.77	\$1,430.80
Jodi Ross	Principal Technical Staff				\$48.93	
		TOTAL HOURS:	102	TOT	AL AMOUNT:	\$4,721.26
ULTIPLIERS						
ESCALATION @	14.09%	(of Direct Labor)	CONTRACTOR	in the transfer of the transfe	AND THE RESERVE AND THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN CO	\$665.23
OVERHEAD @ (90.43% Fringe + 95.66% OH) = 186.0		(of Direct Labor + Escalation)				\$10,023.71
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)				i.
PROFIT (FIXED FEE)	10.0%	(,				\$1,541.02
	and a second contract of the second contract		***************************************	TOTAL N	ULTIPLIERS:	\$12,229.96
THER DIRECT COSTS	· · · Billed at Actual Cost · · ·					
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COMPARY						
					COLONIA DE CONTRACTOR DE C	38453657913673675377557537553335567575

MANIFOLK MORKSHIE														
COMPANY:						SCOPE	SCOPE OF WORK:					£	HASE:	
PSA						Man	Manhour Summary	mary				-	II-IV Phases	
PROJECT:												DA:	DATE:	
Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	n Bouleva	ard Bridge	at Santa	Ana Rive	r (Br. No.	56C-0071							August 14, 2019	advertice to particular to an extension of the contract of the
		12.74												
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ć.	\$115,83	- 58	\$77.63	8	88	53	525.3	223	8	,63 \$21,41	100	- 11	\$48.93	The contract of the contract o
PHASE TOTALS	4	280	28	366	244	134	200	<b>o</b>	09	115	23	88	12	1,392
PHASE														
PHASEI	4	256	48	356	234	134		80	60	107	23	84	12	1,290
PHASE III														
Parks F IV		24	10	10	10					∞		40		102

Patrice   Patr	Plans, Space & Estimates   Plans, Pla	Plans, Space & Estimates   Plans, Pl	COMPANY:		SCOPE OF WORK:	PHASE:		
### Project Administration Bouleard Bridge at Santa Ana Riber (Br. No. Sec.0017)  ###################################	account of Mission Boulevard Bridge at Santa Ana Riber (Br. No. S6C4017)  annours  All - Project Administration  ct Management  ct Management	annours  All - Proper Administration Act Counting Act Cou	LSA	kramandelektrickén maran élőkélharas áróssáhá immassapánakkélásakin deltadolóksasándamanás sánakkéléle	Plans, Specs & Estimates	Phase II		
116.25 SE203 STAN SHARM SHEET STAN SHEET SHEET STAN SHEET STAN SHEET STAN SHEET STAN SHEET S	11.23   22.03   37.04   35.64   35.04   13.4   8   60   107   23   48	1	Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No.	56C-0071)		August 14, 2019		
116.52 SEZON STATES SEGUE SECUE SE	### Security	116.65   SAZJO STATE SIE AL STATE   SAZJO STATE SIE AL STATE   SAZJO S						
1   2   2   2   2   2   2   2   2   2	116.5 SECON STATES SECON SECON STATES SECON SECON STATES SECON STATE	4 266 48 366 234 134 8 60 107 23 48						
11552 85.00 87761 8164 8 60 107 23 48	116.25   126.26   127.57   136.67   136.67   136.77   1	116.25   136.20   137.50   136.50   137.50   136.50   137.50   136.50   137.50   136.50   1						
4   256   49   361   351   3	11650 82783 81643 9169 7169 878 8141 85677 818   1961 Administration   1962 Administration   1962 Administration   1963 Administration   1964 Administration   1965 Administra	116.20 SS200 SY762 Steels Not 10 SY60 SY60 SY60 SY60 SY60 SY60 SY60 SY6						
Totlect Management         Project Administration           Project Management         Project Management           Project Management Plan / Work Plan         Project Management           Project Management Plan / Work Plan         Project Supplement           Project Controvology         Project Supplement           Budgeting         Project Supplement           Cost Accounting         Project Supplement           Project Cost Accounting         Project Supplement           Project Cost Accounting         Project Supplement           Scheduling         Project Supplement           Project Cost Accounting         Project Supplement           Scheduling         Project Supplement           Project Cost Accounting         Project Supplement           Scheduling         Project Supplement           Project Cost Administration         Project Dovelopment Team           Post Specific Items         Project Dovelopment Team           Owtenthy DDT Meetings         Permits           Permits         Permits           Powerload Project Information         Project Dovelopment Team           Project Coveriging         Permits	Rich All - Project Administration         Rich All - Project Administration           Project Management Project Management Project Management Project Management Plan / Work Plan         Recommender           Project Circumology         Recommender           Project Circumology         Recommender           Project Circumology         Recognition           Cost Accounting         Recognition           Project Schoduling         Recognition           Project Schoduling         Recognition           Project Schoduling         Recognition           Contract Administration Services         Register Reporting           Contract Administration Services         Register Reporting           Contract Administration Services         Research and Deal School Register Reporting           Contract Administration Services         Research and Deal School Register Reporting           Contract Administration Services         Research and Deal School Register Reporting           Research and Deal School Register Reporting         Research and Deal School Register Reporting           Policy Development Team         Research Registrof-Certry Pennits           Permits         Recommender           Permits         Research Registrof-Certry Pennits	Itele All - Project Administration Project Management Project Securition Budgeting Project Scounting Scheduling Project Scounting Project Scounting Project Scounting Project Scheduling	9448 8	5 \$52.03 \$77.63 \$46.48 \$4 1 <b>256 48 356</b>	\$26.52 \$25.10 \$47.65 \$21 4 8 60 107	248 48		
Project Management         Project Management           Project Management Plan / Work Plan         Project Management Plan / Work Plan           Project Management Plan / Work Plan         Project Ost Accounting           Project Ost Accounting         Project Ost Accounting           Scheduling         Project Ost Accounting           Project Cost Accounting         Project Ost Accounting           Scheduling         Project Ost Accounting           Project Cost Accounting         Project Ost Accounting           Scheduling         Project Ost Accounting           Project Cost Accounting         Project Ost Accounting           Project Cost Accounting         Project Ost Accounting           Project Cost Accounting         Project Ost Accounting           Project Development Team         Project Doveropment Team           Vonthly PDT Meetings         Premists           Permits         Project Doveropment Team           Permits         Permits	Project Management Project Management Project Management Project Management Project Management Plan / Vlork Plan Project Management Plan / Vlork Plan Project Budgeting Cost Accounting Scheduling Project Cost Accounting Scheduling Project Cost Accounting Scheduling Project Cost Management Plan Nation Project Cost Management Administration Project Scheduling Pergesche Management Administration Project Scheduling Pergesche Management Administration Project Development I team Monthly PDT Meetings Permits Permits Permits Permits Project Scheduling Project Schedul	Project Management Temporary Project Management Temporary Project Management Temporary Project Management Temporary Project Management Plant V Work Plan Pent V Work Plan Pent V Work Plant Project Description Project Contrology Progress Project Contrology Progress Project Contrology Progress Project Description Project Control Project Description Project Descriptio	rticle All - Project Administration					
Project Management Tomork Plan         Project Management Plan / Work Plan           Project Management Plan / Work Plan         Project Management Plan / Work Plan           Project Connology         Project Connology           Project Budgeting         Project Scheduling           Cost Accounting         Project Scheduling           Project Scheduling         Project Scheduling           Pointed Administration         Project Scheduling           Per Specific Items         Project Information           Per Specific Information         Project Development Team           Pointed Project Information         Project Development Team           Pointing         Project Development Team           Pointing         Project Development Team           Pointing         Project Information           Pointing         Project Inform	Project Management Plan / Work Plan         Project Management Plan / Work Plan           Project Management Plan / Work Plan         Project Clavology           Budgeting         Project Clavology           Project Clavology         Project Clavology           Project Cost Accounting         Project Clavology           Project Cost Accounting         Project Clavology           Project Cost Accounting         Project Clavology           Project Stackoling         Project Clavology           Project Stackoling         Project Stackoling           Project Stackoling         Project Stackoling           Contract Administration         Political Administration           Politicated Information         Project Stackology Information           Project Development Team         Political Administration           Political Clavology Information         Political Administration           Political Clavology Information         Political Administration           Political Clavology Information         Political Administration           Political Cla	Project Management Project Management Pan / Work Plan         Project Management Plan / Work Plan           Project Management Plan / Work Plan         Project Management Plan / Work Plan           Project Management Plan / Work Plan         Project Management Plan / Work Plan           Budgeting         Project Scheduling           Project Scheduling         Project Scheduling           Project Scheduling         Project Scheduling           Progress Reporting         Project Scheduling           Progress Reporting         Progress Reporting           P	. Project Management					
Project Management Plan / Work Plan         Project Management Plan / Work Plan           Project Strate Unionality         Project Strate Unionality           Project Strate Unionality         Project Strate Unionality           Cost Accounting         Project Strate Unionality           Project Strate Unionality         Project Strate Unionality           Popularization         Project Unionality           Contract Administration         Project Unionality           Contract Administration         Project Unionality           Project Development Team         Project Unionality           Project Development Team         Project Unionality           Project Development Team         Project Unionality           Popularity Port Meetings         Project Unionality           Permiss         Permiss           Permiss         Permiss           Permiss         Permiss           Permiss         Permiss           Permiss         Permiss           Permiss         Permiss	Project Management Plan / Work Plan         Project Management Plan / Work Plan           Project Ottonology         Cost Accounting           Project Discounting         Cost Accounting           Project Duggeting         Cost Accounting           Project Cost Accounting         Cost Accounting           Project Scheduing         Cost Accounting           Project Administration Services         Cost Accounting           Project Administration Services         Cost Accounting           Personance Reported Administration Services         Cost Accounting           Personance Administration Services         Cost Accounting           Propriet Development Team         Cost Accounting           R	Project Management Plan / Work Plan         Project Management Plan / Work Plan           Project Chronology         Puglacy           Project Chronology         Puglacy           Project Budgeting         Puglacy           Cost Accounting         Project Scheduling           Project Scheduling         Project Scheduling           Project Staporting         Project Scheduling           Project Scheduling         Project Scheduling           Per Specific I terms         Project Scheduling           Project Diversign of The All Charter Scheduling         Project Diversign of The All Charter Scheduling           Per Scheduling         Project Diversign of The All Charter Scheduling         Project Diversign of The All Charter Scheduling           Per Scheduling         Project Diversign of The	Project Management					
Project Chronology         Project Chronology           Budgating         Public Budgating           Project Budgating         Public Budgating           Scheduling         Public Budgating           Project Scheduling         Public Budgating           Pointeact Administration         Public Budgating           Contract Administration         Public Budgating           Polite All In- Family and Proj. Dev.         Public All Information           Project Development Team         Public Budgated Project Information         Public Budgated Project Information           Project Development Team         Public Budgated Project Information         Public Budgated Project Information           Project Development Team         Public Budgated Project Information         Public Budgated Project Information           Project Development Team         Public Budgated Project Information         Public Budgated	Project Chronology         Project Chronology           Budgeting         Project Budgeting           Project Budgeting         Project Set Budgeting           Cost Accounting         Project Set Budgeting           Project Scheduling         Project Scheduling           Project Scheduling         Project Scheduling           Project Scheduling         Project Scheduling           Project Scheduling         Project Scheduling           Project Scheduling         Project Seporting           Project Scheduling         Project Seporting           Contract Administration         Project Seporting           Contract Administration         Project Seporting           Contract Administration         Project Information           Contract Administration         Project Information           Contract Administration         Project Information           Contract Administration         Project Information           Contract Administration         Project Development Team           Monthly POT Meetings         Project Information         Project Information           Permits         Permits         Permits           Permits         Permits         Permits           Permits         Permits           Permits         Permits         Permi	Project Chronology         Project Chronology           Budgating         Pudgating           Budgating         Pudgating           Cost Accounting         Pudgating           Project Cost Accounting         Project Standuling           Project Standuling         Project Standuling           Personal Administration         Project Standuling           Personal Administration         Project Standuling           Research and Data Carled Project Information         Project Standuling           Project Development Team         Project Standuling           Monthly PDT Meetings         Project Standuling           Project Development Team         Project Standuling           Personal Admin	Project Management Plan / Work Plan					
Budgeting         Budgeting           Project Budgeting         Budgeting           Cost Accounting         Budgeting           Scheduling         Budgeting           Project Scheduling         Budgeting           Poliverate Administration         Budgeting           Per Specific Items         Budgeting           Per Specific Items         Budgeting           Per Specific Items         Budgeting           Deliverables         Budgeting           Deliverables         Budgeting           Per Specific Items         Budgeting           Deliverables         Budgeting           Per Specific Items         Budgeting           Per All Instruction         Budgeting           Per All Instruction         Budgeting           Budgeting         Budgeting           Budgeting         Budgeting           Budgeting         Budgeting           Budgeting         Budgeting           Budgeting         Budgeting <td>Budgeting         Budgeting           Project Budgeting         Cool Accounting           Project Cost Accounting         Cool Accounting           Project Cost Accounting         Cool Accounting           Project Cost Accounting         Cool Accounting           Project Scheduling         Cool Accounting           Project Scheduling         Cool Accounting           Project Scheduling         Cool Accounting           Confract Administration         Confract Administration           Delate and Data Gathering         Confract Administration           Monthly PDT Meetings         Confract Administration           Project Development Team         Confract Administration           Monthly PDT Meetings         Confract Administration           Project Development Team         Confract Administration           Monthly PDT Meetings         Confract Administration           Project Deve</td> <td>Budgeling         Budgeling           Project Budgeling         Project Budgeling           Project Cost Accounting         Project Cost Accounting           Scheduling         Project 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Final Bridge Hydraulics Report
F. SWPPP
Draft and Final SWPPP
G. Phase II Site Assessment
Data Review, Permitting, Utility Clearance
Hazardous Materials Field and Lab Testing
Draft and Final Phase II Site Assessment
H. Final Geotechnical Design

Final On-Site Drainage Report Update Final TPG

COMPANY:		SCOPE Pla	SCOPE OF WORK: Plans, Specs & Estimates	stimates			PHASE:						
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	(Br. No. 56C-0071)						DATE: August 14, 2019	, 2019					
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Article AV - Roadway													
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Darren Adrian	Sr. Roadway Engineer			323	@		\$89.92	\$29,044.16
Jason Melchor	Traffic Engineer			50	@		\$62.26	\$3,113.00
Frank Hoffman	QC / Senior Engineer			122	@		\$75.00	\$9,150.00
Michael Madsen	Lanscape Architect						\$60.10	
Stephanie Lam	Project Engineer Civil			874	@		\$41.36	\$36,148.64
Tim Chan	Project Engineer Traffic	;		158	@		\$42.56	\$6,724.48
Survey Staff	Surveyor							
Alan Huynh	Engineer			1,107	@		\$37.74	\$41,778.18
Gabe Keehn	Assistant Engineer / Te	chnicia	an	20	@		\$31.26	\$625.20
Mingfang Song	CADD Designer			180	@		\$40.00	\$7,200.00
Admin Staff	Adminstrative			113	@		\$36.30	\$4,101.90
					caracter as sorthware to	onest obsessed a service of the	na - ring - h she ya ka	
			TOTAL HOURS:	2,947		TOTAL A	MOUNT:	\$137,885.56
ULTIPLIERS	NO DESCRIPTION OF THE SERVICE OF THE SERVICE AND THE SERVICE OF TH		1801 M/S = 2, смедацију прогод под задације учирочни прогодина по строторители постигни постигни п		e-10410-e-00-0000e		and the second s	manangan menerokai Commondean sa antanan menerokai nan sa situr aker asak hara sa 170
ESCALATION @	. 4.1	0%	(of Direct Labor)					\$5,653.31
OVERHEAD @ (38.63% Fringe + 154.19% OH) = 19	92.82° 192.8	2%	(of Direct Labor + Escalation)					\$276,771.65
PAYROLL ADDITIVES @			(of Direct Labor + Escalation)					
PROFIT (FIXED FEE)	10.	.0%			Eugennous succession com-	noonanananananii nananiananii		\$42,031.05
					TOT	AL MULT	IPLIERS:	\$324,456.00
THER DIRECT COSTS	· Billed at Actual Cost	t •••				a paragraphic and the		AMOUNT
Reproduction (Full Dion Sheets)			GUANTITY				\$0.72	SOURCE STORY OF THE STORY OF TH
Reproduction (Full Plan Sheets)			1544	EA	@			\$1,111.68
Reproduction (Half Size Sheets)			3700	EA	@		\$0.24	\$888.00
Mileage Deliveries			2912	MI			\$0.545	\$1,587.02
			1	ACTUAL		80	\$800.00	\$800.00
Office Expenses (per County agreement)			1	LS		•	0,000.00	\$20,000.00
Potholing (allowance)			1	ACTUAL		\$40	,000.000	\$40,000.00
whose debases in \$1,000 to the difference agreement (Costero exclusive) representative represent	er (i. 1 se noth, a liste mill a foreign i ne 1999) en 200 foreign august for a sein de 190 inde sein en vice februarie en	Sees on our law areas	enervienie – na ammeninosos de na antima errora, Albamenthi delebilita († 18.000/1000/1000/1000/1000/1000/1000	rivolección santi river au manancian riformationne rivolate e distri	ngyonia, sasaningo ong	TOTA	L ODC'S:	\$64,386.72
JB CONSULTANT SERVICES COMPANY	10.748		LABOR	MULTIPLEES				7577
			- Andready - Andready - Opportunity and State of the Market State of the Control of the Andready State of the Control of the Andready State of the Control o				COLUMN TO THE OWNER OF THE OWNER.	
•				TOTAL SUBC	ONSUL	TANT SE	RVICES:	

FEE PROPOSAL WORKSHEET :OMPANY: Kimley-Horn			SCOPE OF WORK:  Construction Su	nnort				PHASE: Phase IV
ROJECT:		W. Commission of the Commissio	er	pport		annalmannik w vorvislikkaniki i rasiira	Grant School (1970) (1986) Principles School (1970) (1970) annual color of schools (1970) (1970)	DATE:
Replacement of Mission Boulevard Brid	ge at Santa Ana Rive	r (Br. No. 56C-00	71)					August 14, 2019
DIRECT LABOR								
ERSONNEL	4.5		(oN		HOURS		EATE	A STANCE OF
Darren Adrian	Sr. Roadw	ay Engineer		AND THE PERSON AND ADDRESS OF	25	@	\$89.92	\$2,248.00
Jason Melchor	Traffic Eng	ineer			4	@	\$62.26	\$249.04
Frank Hoffman	QC / Senio	r Engineer			2	@	\$75.00	\$150.00
Michael Madsen	Lanscape					-	\$60.10	
Stephanie Lam	Project En	gineer Civil			64	@	\$41.36	\$2,647.04
Tim Chan	Project En	gineer Traffic			6	@ ' '	\$42.56	\$255.36
Survey Staff	Surveyor	-						
Alan Huynh	Engineer				14	@	\$37.74	\$528.36
Gabe Keehn	Assistant E	ngineer / Technic	ian			•	\$31.26	,
Mingfang Song	CADD Des	•			20	@	\$40.00	\$800.00
Admin Staff	Adminstrat	-			6	@	\$36.30	\$217.80
All Birmidmen de la granda monte i qui aqui en que comprenda e la bolista del del de la completa de la del de la completa del la completa de  la completa de  la comp	жорунундай, - 30-ы 4-1999жо Эннийский - 4-1 - 4-18-комплетова (1 комплетова) на комплеменна выдал и		TOTAL H	OURS:	141	TOT	AL AMOUNT:	\$7,095.60
IULTIPLIERS								
ESCALATION @	The state of the s	14.95%	(of Direct Labor)		######################################			\$1,060.65
OVERHEAD @ (38.63% Fringe + 154.19% O	H) = 192.82°	192.82%	(of Direct Labor + E	scalation)				\$15,726.88
PAYROLL ADDITIVES @			(of Direct Labor + E					
PROFIT (FIXED FEE)		10.0%	•					\$2,388.31
	THE CONTRACT OF THE PARTY OF TH	DECEMBER AND STATE OF A SECURIOR OF THE SECURI	P - Manuscriptor Alabania (months a canada antico en cona	AND DESCRIPTION OF THE PARTY OF	ALCONOMINA DE LOS D	TOTAL N	ULTIPLIERS:	\$19,175.85
OTHER DIRECT COSTS	and Dillord o	t Actual Cost •••						
EM.	billed a	AGUAL COST	OLANTTY					
	PROPERTIES STATES COMMUNICATES AND PROPERTIES AND ASSESSMENT OF ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT AS	The contract and the second of the contract of	or s. v E entretropoli ob navidello en l'imposition della come enemeramentamentament	confrantessesses confrantessesses	anne anne anne anne anne anne anne anne	T1	OTAL ODC'S:	almen som revolution och mille och proposition och styring ble sty
JB CONSULTANT SERVICES								
COMPA			LABOR					
anka a stray ya 1980-1994 (1988). Sarar a mangay kadaki kikisari a manga kadaki kikisara a manga kada kada kada kada kada kada kada ka		The Complete of an electrical framework controller to the second	And the second consideration and the Charlest property for	XX 4-9-40-4000 N. d-100-0-4-40000	TOTAL SUB	CONSULTAN	T SERVICES:	
								essentassen reference es en opplette en propriet transmission en faction el beneficie
							TOTAL	\$26,271.45

MANIFOUR MORESHE														
COMPANY:					S	SCOPE OF WORK:				PHASE:				
Kimley-Horn					onerter resid	Manhour Summary	ary			II-IV Phases	hases			
PROJECT:										DATE:			and the second s	
Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No.	on Bouleva	ırd Bridge	e at Santa A	na River (		56C-0071)				Augn	August 14, 2019			
•	\$88.92	\$62,26	588.92 \$62.26 \$75.00 \$60.10 \$41.36	0.10	1	542.59	\$37.74 \$31.26 \$40.00 \$36.30	331,26	340.00	36.30				
PHASE TOTALS	348	54	124		938	164	1,121	20	200	119			Secretary of Secre	3,088
1	ogicene -													
The second secon														
	323	20	122		874	158	1,107	20	180	113				2,947

Kimiey-Horn PRO IECT:	ST. CO. ACCUSED THE SECOND STATE OF THE SECOND	and the special feet that the special section is	Oxformation of Compressions and	Plan	rians, opecs & Estimates	timates		Ψ.	Phase II		***************************************		Va. VORTO SIRAP SARAPORTO PROPERTO PROP		***************************************
Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	(Br. No. 56C-007	1)		анализиянан чанулгунун балганалы		tradicament/in-sacroment despendent despe	Salah da		August 19, 2019	19	0.0000000000000000000000000000000000000				
											1 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	98	26 \$75.00	\$60,10	441,36 \$42,56	500	37,74 \$31.	26 546,00	\$36,30							
Total Manhours	323	50 122		874 158		1,107	20 180	113						2,947	137,886
Article All - Project Administration									-		Part of the Assault		Server uses	A secondario	
A. Project Management													deres		
Project Management													popular		
Project Management Plan / Work Plan		M DMCV-rec	org vag es												
Project Chronology		politic agree agree			e e e e e e e e e e e e e e e e e e e										
B. Budgeting													C Distance		
Project Budgeting			NA -	A. A.A									ATRION S		
C. Cost Accounting					(1 May 12 a		out was a second to		******				(1000 T.E.)		
Project Cost Accounting							e-inner he								
D. Scheduling		new .		ance a Re									LORGO - S		
Project Scheduling					act of familiar act and act of the familiar ac	The court is the same of the court is the court is the court in the co	ACTION CONT. LETT TO ACTION AND ACTION ACTION AND ACTION AND ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION	on the contract of the contrac	Marie Salute Vice for Johnson Marie Marie Salute		***************************************				
E. Progress Reporting				The second secon		and a second			March Control Control And Control Control		-				1000
Progress Reporting	72			38	1000			36	00 VI 1111100000 1 10000000 1 1000000		A COLUMN TO THE PARTY OF THE PA	-		44 \$	9,270
F. Contract Administration											A contribution of the second contribution of the			A.P. S.	
Contract Administration Services			Stands are all					••							
G. Deliverables			0 00-0-0												
Per Specific Items															
Article AllI - Planning and Proj. Dev.							11.10.100 pt 40.00				***************************************				-
A. Research and Data Gathering			n.,, olgan-a										PERENCE.	01.08.00°L.000	
Obtain Updated Project Information													TOTAL STATE		
B. Project Development Team				AA YOUW COPP									bacanos, SPAB	w	
Monthly PDT Meetings	42			8 09				18						128 \$	7,252
C. Permits				**************************************			DC 4. Library consistent						aersteine		
Encroachment and Right-of-Entry Permits	peder sodor-tinator			Alberton V									ACCUPATE TO		
D. Design Surveys		h													
Coordinate with County Survey														a, comme	
E. Final Drainage and Bridge Hydraulics															
Final On-Site Drainage Report	4	80		20		4		80					ļ.	80 \$	3,587
Update Final TPG		-													
Final Bridge Hydraulics Report														<b></b>	
F SWPPP							ulantud taurri						TELEP V		
Draft and Final SWPPP	4	ω		20		4		80						80	3,587
		Contraction of the contract of								the state of the s					

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Kimley-Horn PROJECT:				Pa	Plans, Specs & Estimates	stimates	America de Companyo de Company		Phase II DATE:							
Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	Br. No. 56C-00	71)							August 19,	9, 2019	***************************************	***************************************				
								in-								
Data Review, Permitting, Utility Clearance						september 1 transport of the control		Section to the last			generation.			XXXY	a sprages on a	
Hazardous Materials Field and Lab Testing				-												
Draft and Final Phase II Site Assessment																
H. Final Geotechnical Design																-
Draft and Final Materials Report				The same of the sa												
GDR inc, Field Investigation														puncus Contracts		770000000000000000000000000000000000000
Draft and Final Foundation Report		A-constant	Service de la constitución de la													
ROE/Encroachment Coordination				- wherein									-	alat parabete		
I. Architectural Details and Simulations				÷										NACUAL PO		
Final Architectural Details and Coord.														.passer:		
Bridge Visual Simulations						The state of the s										
Community Meetings	e 6			-												OFF TO LABOUR TO
J. Corps 408 Permit													•			
Section 408 Permit							a decent							dan tersa		
K. Final ROW Documents														, acres		
Final ROW Exhibits	4	2		20		5	ik sood de misses	04, PR 80-044.04		P40-00-38-10-1	hitalikkina era		0.00 \ 1.1.1.100	er emant	36 \$	1,714
L. Utility Coordination							in the same	en e		e-a cadas				gas retress		
Utility Letters						STREET, ST. CO.									ļ	
Potholing Summary														000000000		
Final Utility Plans	52	4		80		9									149 \$	7,366
M. Misc. Design Support				D. M. 1974 . 74 A				entre colte colte	Document Statement Statement					-		
Updated Fact Sheet	4	4		20		10	gov pr street	general and	-						38	1,864
Traffic Management Plan														donne e		
Article AIV - Structures														10.200.2000		
A. Structural Design and Calculations				-										dezeteou.		
Complete Structural Design			ga enancea											Second contract		
B. Independent Check and Quality Control																
Perform Structures IC and QC														-portrare		
C. Structures Specifications and Estimate														- SCHEE		T. S.
Develop Specifications and Estimate														aponiona:		and the second
D. Structure PS&E					-	-								-		
Prepare 65% Unchecked PS&E																Policina de la companya de la compan
Prepare 90% Checked PS&E	******	No. No Services	N-A											na facellist		
Prepare 95% PS&E														100000		
			Colda Military Colda or or commercial													

MANHOUR WORKSHEET											-							
COMPANY: Kimiey-Horn					SCOPE OF WORK	COPE OF WORK: Plans, Specs & Estimates	mates			PHASE:	_							
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	r. No. 56C-	0071)	*					Manager attends attitudes on the	Challenger (about 1974) conditions of	DATE:	\TE: August 19. 2019	AND THE PROPERTY OF THE PARTY O						
MASA																		
RE Pending File					madd the	nacional.					***				Mana.on			
Article AV - Roadway	<u> </u>							ļ				***************************************		A CONTRACTOR OF THE PERSON OF			- east and and an arrange	
A. Basic Roadway Plans	33		25	114	7 1	ļ	231	32	2						a a company	442	\$ 19,853	853
B. Calculations	4	2	4	14		No. has alleged	24	20	7	4					gazzeraa Gazzeraa	72	\$ 3,0	3,039
C. Drainage Plans	4		œ	70			124	36	(0						(manus	252	\$ 10,874	874
D. Traffic Plans	4	16	o	12	40		112									193	\$ 8,4	8,456
E. Miscellaneous Plans	4		2	10			24									4	\$ 1,8	1,829
F. Intermediate Reviews					production them.										and one of the contract of the			
G. Specifications and Estimate	16	9	7	106	3 26		52		14						. September 1	227	\$ 10,299	299
H. Quality Control																		
I. Draft PS&E (95% Complete)	65	19	30	197	54	.,	264	72	10	_						7	\$ 32,930	930
J. Final PS&E (100% Complete)	28	7	7	95			136	4	) 15		Solved to . p	programs	and the second		DESCRIPTION OF	355	\$ 15,964	964
Article AVI - Env. Permits and Mitigation Plan								. Althouse										
A. USACE Section 404 Permit (Geotech Borings)								n-Paratrad							INCOLUNI			
B. RWQCB Section 401 Cert (Geotech Borings)								44. YIR (1444)					an de des est					
C. CDFW Section 1602 Agmt (Geotech Borings)								M							229429555			
D. Nesting Season Coordination															unirus			
E. Nest Survey and Report (Prior to Geotech Borings)											den) ef egleste (		den especiales		in contract	50s (4450-00)		
F. Plant Survey and Report (Prior to Geotech Borings)											, o Citin , a keedin ja				la receiul			
G. Biological Monitoring of Geotech Borings (10 days)																		
H. HMMP (On-Site Mitigation)	e.comer.chagi																	
I. Coordination (Off-Site Mitigation)	hila deserva de					and the second												
J. Off-Site (Bat Habitat) Coordination & Design				000000000000000000000000000000000000000												anto recipio caso o		
K. LSA HMMP (Off-Site Mitigation)	iket a dertende				hadrofrens (t)				**********		** > 47 <sup>*</sup> ***********************************				p. a 12277.73	A Andrews I		
L. Section 404 Permit (Construction)	AND LANGUE					v. brahan									COMPRISONS			
M. Section 401 Cert (Construction)	осонская сы														Second Scools			
N. CDFW Section 1602 Agmt (Construction)															and the second			
Article AVII - Construction Bidding Phase	04004444		dada (masta (ndista)		and the second			ar market, a							garettissand			
A. Construction Bidding Phase	e-manana vol							glan, are halfa are still	************	VF4-140004-14	********				udora n			p. A. d. m. Cal-
Article AVIII - Construction Support Phase	***************************************		and the same and the												ot recessor			ari russidanta
A. Construction Support Phase	www.thachton		harles		hi diracel ef									*********	PERSONAL PROPERTY.			
Article AIV - Computer Services						innanana.									de la constantina de			
A. Calculations																		
B. CADD Article AW - Onellity Control Blox	rantum than		-												Secretary PCI.	-		
A Ouality Management Plan	etalija turi		-				-		-			-	-	eres de la	:7668734726	+		
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MANIHOUR WORKSHEET															
COMPANY: Kimley-Horn				SCOPE OF WORK  Construction	SOPE OF WORK: Construction Support	-		PHASE: Phase IV	≥ €						
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	ı River (Br. No. 56C-	0071)		100000000000000000000000000000000000000				DATE: Augu	чте: August 19, 2019						
	889.33 862.28	01.038 00.578	98 138	842.56	27.788	8831.26	\$40.00 \$36	300						3	
Total Manhours	8 8	7	9 9		14	8 8		9						141	7,096
Article AVII - Construction Bidding Phase	And the second s		Balange, progra		grander ogg	-		THE REAL PROPERTY AND ADDRESS OF THE PERTY					<b></b>		
A. Construction Bidding Phase															
Article AVIII - Construction Support Phase													de commune		
A. Construction Support Phase	25 4	2	64	9	14		20	9					(COMPANIE)	141	960'2
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						200	Contractor Contractor (Standard Contractor)						gertutore)		i
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					CONTRACTOR AND		The state of the s								
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					CANTEL CONTRACTOR AND ADDRESS OF THE PARTY O					-			ļ.		
				***************************************	COVER AND										
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iaz-Yourman			SCOPE OF WORK: Project Summary				PHASE: II-IV Phases
OJECT: eplacement of Mission Boulevard Bridge at Sar	nta Ana River (Br. No.	56C-0071)					DATE: <b>August 14, 201</b>
RECT LABOR		- R. William (M. 1994) And A. S. C.		n ngamanganan nikul lilasi (n. 1901)		ggg controller and a cyfer color y the constitute store	and and the Country of the Country of the State of the St
RSONNEL	Parlace Con-	POSITION		Hours	1.0	RATE	AMOUNT
Vallipuram Nadeswaran	Pricipal	THE STATE OF THE S	The state of the s	30	@	\$80.30	\$2,409.0
Somadevan Niranjanan	Associate II			6	@	\$61.37	\$368.2
Clint Isa	Associate I			114	@	\$56.00	\$6,384.0
Edward Reinert	Project I			6	@	\$36.06	\$216.3
Chaitanya Kukutla	Staff II			194	@	\$34.62	\$6,716.2
Kelly Shaw	Staff I			80	@	\$28.00	\$2,240.0
Ashley Scholder	CADD			28	@	\$23.90	\$669.2
Sandra Diaz	Word Processor			16	@	\$22.97	\$367.5
Deanna Rose	Technical Editor			16	@	\$36.97	\$591.5
	. All the the distribution of the contract of	and the second s	TOTAL HOURS:	490	<u></u>	OTAL AMOUNT:	\$19,962.1
ILTIPLIERS							
ESCALATION @			(Rates Vary by Phase)	and the second second			\$924.3
OVERHEAD @ (74.35% Fringe + 141.33% OH) = 215.6	69	215.7%	(of Direct Labor + Escalation)				\$45,052.1
PAYROLL ADDITIVES @			(of Direct Labor + Escalation)				
PROFIT (FIXED FEE)		10.0%					\$6,593.8
HER DIRECT COSTS					TOTA	. MULTIPLIERS:	\$52,570.3
HER DIRECT COSTS	· · · Billed at Actual Co	ost •••	CHANTITY			8.031	And
Certified Industrial Hygienist			1		@	\$1,000.00	\$1,000.0
			•	SHIFT	@	\$2.243.00	\$1,121.5
			1				
Geophysics (Utility Location)			1		_		
Geophysics (Utility Location) Drillers			2	SHIFT	@	\$3,174.00	\$6,348.0
Geophysics (Utility Location) Drillers Equipment Rental (PID)			2 7	SHIFT DAY	@	\$3,174.00 \$115.00	\$6,348.0 \$805.0
Geophysics (Utility Location) Drillers Equipment Rental (PID) Equipment Rental (Hand Auger Kit)			2 7 5	SHIFT DAY DAY	@	\$3,174.00 \$115.00 \$230.00	\$6,348.0 \$805.0 \$1,150.0
Geophysics (Utility Location) Drillers Equipment Rental (PID) Equipment Rental (Hand Auger Kit) ACM/LBP Evaluation	1 Disnosal		2 7 5	SHIFT DAY DAY EA	0 0	\$3,174.00 \$115.00 \$230.00 \$9,085.000	\$6,348.0 \$805.0 \$1,150.0 \$9,085.0
Geophysics (Utility Location) Drillers Equipment Rental (PID) Equipment Rental (Hand Auger Kit) ACM/LBP Evaluation Investigation-Derived Waste Characterization and	d Disposal		2 7 5 1 2	SHIFT DAY DAY EA DRUM	0 0 0	\$3,174.00 \$115.00 \$230.00 \$9,085.000 \$595.00	\$6,348.0 \$805.0 \$1,150.0 \$9,085.0 \$1,190.0
Geophysics (Utility Location) Drillers Equipment Rental (PID) Equipment Rental (Hand Auger Kit) ACM/LBP Evaluation Investigation-Derived Waste Characterization and Environmental Laboratory Testing	d Disposal		2 7 5 1 2	SHIFT DAY DAY EA DRUM EA	0 0 0 0	\$3,174.00 \$115.00 \$230.00 \$9,085.000 \$595.00 \$27,265.00	\$6,348.0 \$805.0 \$1,150.0 \$9,085.0 \$1,190.0 \$27,265.0
Geophysics (Utility Location) Drillers Equipment Rental (PID) Equipment Rental (Hand Auger Kit) ACM/LBP Evaluation Investigation-Derived Waste Characterization and Environmental Laboratory Testing FedEx	d Disposal		2 7 5 1 2 1 2	SHIFT DAY DAY EA DRUM EA	8 8 8 8 8	\$3,174.00 \$115.00 \$230.00 \$9,085.000 \$595.00 \$27,265.00 \$100.00	\$6,348.0 \$805.0 \$1,150.0 \$9,085.0 \$1,190.0 \$27,265.0 \$200.0
Geophysics (Utility Location) Drillers Equipment Rental (PID) Equipment Rental (Hand Auger Kit) ACM/LBP Evaluation Investigation-Derived Waste Characterization and Environmental Laboratory Testing FedEx Field Vehicle			2 7 5 1 2 1 2 96	SHIFT DAY DAY EA DRUM EA EA HR	999999	\$3,174.00 \$115.00 \$230.00 \$9,085.000 \$595.00 \$27,265.00 \$100.00 \$18.00	\$6,348.0 \$805.0 \$1,150.0 \$9,085.0 \$1,190.0 \$27,265.0 \$200.0 \$1,728.0
Geophysics (Utility Location) Drillers Equipment Rental (PID) Equipment Rental (Hand Auger Kit) ACM/LBP Evaluation Investigation-Derived Waste Characterization and Environmental Laboratory Testing FedEx			2 7 5 1 2 1 2	SHIFT DAY DAY EA DRUM EA	8 8 8 8 8	\$3,174.00 \$115.00 \$230.00 \$9,085.000 \$595.00 \$27,265.00 \$100.00	\$6,348.0 \$805.0 \$1,150.0 \$9,085.0 \$1,190.0 \$27,265.0 \$200.0 \$1,728.0
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			SCOPE OF WORK: Plans, Specs & Estimates				PHASE: Phase II
ROJECT: Replacement of Mission Boulevard Bridge at Sar	nta Ana River (Br. N	No. 56C-00	71)	Colonia Colonia de La Algunda de La Colonia de Colonia	WENT CONTRACTOR OF THE PERSON	and All Control English Procedure - Children and Articles and Control Control Control Control Control Control	DATE: August 14, 201
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RSONNEL		ros.				177	
Vallipuram Nadeswaran	Pricipal			22	@	\$80.30	\$1,766.0
Somadevan Niranjanan	Associate II			6	@	\$61.37	\$368.
Clint Isa	Associate I			106	@	\$56.00	\$5,936.0
Edward Reinert	Project I			6	@	\$36.06	\$216.
Chaitanya Kukutla	Staff II			170	@	\$34.62	\$5,885.
Kelly Shaw	Staff I		•	80	. @	\$28.00	\$2,240.0
Ashley Scholder	CADD			28	@	\$23.90	\$669.
Sandra Diaz	Word Processor			16	@	\$22.97	\$367
Deanna Rose	Technical Editor			16	@	\$36.97	\$591.
	err von de Getarikerren von der der 1600 en de de date Getaren von vorden	manar communicaçãos do popular actual acudado				OTAL ABSOLIBIT:	A48.040
ULTIPLIERS			TOTAL HOURS:	450	10	OTAL AMOUNT:	\$18,040.
ESCALATION @		3.75%	(of Direct Labor)			######################################	\$676.
OVERHEAD @ (74.35% Fringe + 141.33% OH) = 215.6	5%	215.7%	(of Direct Labor + Escalation)				\$40,373.
PAYROLL ADDITIVES @			(of Direct Labor + Escalation)				
PROFIT (FIXED FEE)		10.0%	(,				\$5,909.
· · · · · · · · · · · · · · · · · · ·		10.0%					<b>\$</b> 0,909.
		10.0%		en e resummente som men en e	TOTAL	MULTIPLIERS:	\$46,958.
THER DIRECT COSTS	••• Billed at Actua	W MICH ATTITUDE - OTHER - SALES AND AND ASSESSMENT		n er mann som en mennemen som en men en	TOTAL	MULTIPLIERS:	
	••• Billed at Actua	W MICH ATTITUDE - OTHER - SALES AND AND ASSESSMENT	GIANTITY I	LINET			\$46,958.
THER DIRECT COSTS	••• Billed at Actua	W MICH ATTITUDE - OTHER - SALES AND AND ASSESSMENT	QUANTITY:	UNIT		INTERST	\$46,958. AMQUNT
THER DIRECT COSTS  M Certified Industrial Hygienist	••• Billed at Actua	W MICH ATTITUDE - OTHER - SALES AND AND ASSESSMENT	1		@ @	INIT COST \$1,000.00	\$46,958. AMQUNT \$1,000.
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HER DIRECT COSTS  M: Certified Industrial Hygienist Geophysics (Utility Location) Drillers Equipment Rental (PID) Equipment Rental (Hand Auger Kit) ACM/LBP Evaluation Investigation-Derived Waste Characterization and Environmental Laboratory Testing FedEx Field Vehicle	Disposal	W MICH ATTITUDE - OTHER - SALES AND AND ASSESSMENT	1 1 2 7 5 1 2 1 2 1 2 96	SHIFT SHIFT DAY DAY EA DRUM EA EA HR		\$1,000.00 \$2,243.00 \$3,174.00 \$115.00 \$230.00 \$9,085.000 \$595.00 \$27,265.00 \$100.00 \$18.00	\$46,958. \$1,000. \$1,121. \$6,348. \$805. \$1,150. \$9,085. \$1,190. \$27,265. \$200. \$1,728. \$3,000.
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TOTAL \$117,892.24

OMPANY: Diaz-Yourman		33,3	SCOPE OF WORK:  Construction Support				PHASE: Phase IV
ROJECT:	O SANTANTON TO THE SANTANTON THE SANTANTON AND A SANTANT A	onner over reservable		Additional and control Albert annual and development of the management of the second	onantento comenzar e transcerio del menero de la fin finite de AADA M	D	PATE:
Replacement of Mission Boulevard Bridge at Sant	a Ana River (Br. I	lo. 56C-00	71)	er ann en renn man anne en en er en	A didnostic considerativo de la concentrativo del concentrativo del concentrativo de la concentrativo della concentrativo de la concentrativo della concentrativo dell		August 14, 2019
IRECT LABOR							
ERSONNEL		POST		HOURS	RA	1	AMOUNT
Vallipuram Nadeswaran	Pricipal	W 740 4000 C C C C C C C C C C C C C C C C	erry n relegible pridit Consumer property expression presented money. The	8	@	\$80.30	\$642.40
Somadevan Niranjanan	Associate II					\$61.37	
Clint Isa	Associate I			8	@	\$56.00	\$448.00
Edward Reinert	Project I					\$36.06	
Chaitanya Kukutla	Staff II			24	@	\$34.62	\$830.88
Kelly Shaw	Staff I					\$28.00	
Ashley Scholder	CADD					\$23.90	
Sandra Diaz	Word Processor					\$22.97	
Deanna Rose	Technical Editor					\$36.97	
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			TOTAL HOURS:	40	TOTAL	AMOUNT:	\$1,921.28
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ESCALATION @		12.90%	(of Direct Labor)				\$247.85
OVERHEAD @ (74.35% Fringe + 141.33% OH) = 215.6%	i	215.7%	(of Direct Labor + Escalation)	)			\$4,678.80
PAYROLL ADDITIVES @			(of Direct Labor + Escalation)	) .			
PROFIT (FIXED FEE)		10.0%					\$684.79
					TOTAL MUL	TIPLIERS:	\$5,611.44
THER DIRECT COSTS	· Billed at Actua	al Cost •••					
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MORKSHEET		S	SCOPE OF WORK:	Ϋ́ Ϋ́			PHASE	
			Manhour Summary	Summary			II-IV Phases	
							DATE:	
Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	at Santa Ana Riv	er (Br. No.	56C-0071)			***************************************	August 14, 2019	
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COMPANY: Diaz-Yourman		SCOPE OF WORK Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	(Br. No. 56C-0071)		DATE. August 19, 2019
			study study
Total Manhours	\$60.30 \$61.37 \$56.00 \$36.06 \$34.62 22 6 106 6 170	\$28.00 \$23.90 \$22.97 \$38.97 80 28 16 16	450 18,041
Article All - Project Administration			
A. Project Management			
Project Management Plan / Work Plan	ender and a contract of the co		
Project Chronology			
B. Budgeting			
Project Budgeting			
C. Cost Accounting			
Project Cost Accounting			
D. Scheduling	And the control of th		
Project Scheduling			
E. Progress Reporting			
Progress Reporting			The second control of
F. Contract Administration			
Contract Administration Services			
G. Deliverables			
Per Specific Items			
Article AllI - Planning and Proj. Dev.			
A. Research and Data Gathering			
Obtain Updated Project Information			
B. Project Development Team			
Montniy PD   Meetings			
C. retifiles Fromachment and Right-of-Entry Permits			
Design Surveys			
Coordinate with County Survey			
E. Final Drainage and Bridge Hydraulics			
Final On-Site Drainage Report			
Update Final TPG			
Final Bridge Hydraulics Report			
F. SWPPP			
Draft and Final SWPPP			
G. Phase II Site Assessment			

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		Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	
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Data Review, Permitting, Utility Clearance	9	7	40	N00-4-7000-	4	5	12	9	9		Panjorana ang	O SECRETARIA		n property		Marie States	nonaes	126	\$ 5,477
Hazardous Materials Field and Lab Testing	2		26	9	06	50											ONUT END	174	\$ 6,349
Draft and Final Phase II Site Assessment	10	4	40		40	20	16	10	10									150	\$ 6,215
H. Final Geotechnical Design			W.4.000.10																
Draft and Final Materials Report	5000 F14 F100					140000000000000000000000000000000000000									v-100-12-10-10	30/3/44 -444			
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ROE/Encroachment Coordination		**********				1.1384-00-					etwo kaka kee			Necessary Super-			VINNATUR		
I. Architectural Details and Simulations										V 2 - 1 - <b>4</b> 23 - 2 - <b>4</b>				graduus sepa			P427900.000		
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K. Final ROW Documents																			
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Traffic Management Plan																			
Article AIV - Structures																			1
A. Structural Design and Calculations		gira transcensoria							Stationarium V		Naga Taka Yan				P. Deck State Co.				
Complete Structural Design																			
B. Independent Check and Quality Control																	1001201000		
Perform Structures IC and QC					M		personal success			h,hX.n.a.b Vijevi <b>v</b>				300000			90.00.00		
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Develop Specifications and Estimate			cia et et en en														1000 BTZ 120		
D. Structure PS&E										M-3-7-W-3-0-3-3-4							12001/07/07		
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Prepare Final PS&E										MET HE WAS DO		D-MINNESON OF		A-6477-7-3		nan a nawa	CPCF09090		

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ans River (Br. No. 56C-0071)  (s) (s) (orings) (orings)	In of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)  The File  Roadway Coadway Plans from S  Plans aneous Plans aneous Plans aneous Plans Control Control Control Control Complete) AE (195% Complete) AE (19	August 19.	50108			real costs
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RE Pending File	19 File           Roadway           Roadway           Yoadway Plans           Itions           19 Plans           20 Plans           20 Plans           3 Plans           4 Plans           5 Plans           5 Pection 401 Cert (Geotech Borings)           5 Section 1602 Agmt (Geotech Borings)           5 Season Coordination           1 Negative Plans					S COST
A Table Nat Popularies  A Basic Roadway  A Basic Roadway Plans  B Calculations  C District Plans  C District Plans  E Miscellaneous Plans  D Traffic Plans  E Miscellaneous Plans  C District Plans  E Miscellaneous Plans  G Specifications and Estimate  H Quality Control  I Draff PSEE (10% Complete)  J Final PSEE (10% Complete)  J Final PSEE (10% Complete)  J Final PSEE (10% Complete)  A USACE Section 404 Permit (Geotech Borings)  D. Nesting Season Coordination  A USACE Section 404 Permit (Geotech Borings)  D. Nesting Season Coordination  E Nest Survey and Report (Phor to Geotech Borings)  D. Nesting Season Coordination  E Nest Survey and Report (Phor to Geotech Borings)  C EDVA Section (Active Mitigation)  L Coordination (OFF-Site Mitigation)  L Coordination (OFF-Site Mitigation)  L Section 404 Permit (Construction)  N Child Received Mitigation)  L Section Ada Permit (Construction)  N Child Section Ada Permit (Construction)	roadway Plans tions tions  Plans Plans Plans aneous Plans aneous Plans aneous Plans Control Control Section 404 Permit Geotech Borings) Section 404 Permit (Geotech Borings) Section 1602 Agmt (Geotech Borings) Section 1602 Agmt (Geotech Borings) Section 1602 Agmt (Geotech Borings) Season Coordination Season Coordination Season Coordination Season Coordination					
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J. Final PS&E (100% Complete)         Article AVI - Env. Permits and Mitigation Plan         A. USACE Section 404 Permit (Geotech Borings)         B. RWQCB Section 401 Cert (Geotech Borings)         C. CDFW Section 1602 Agmt (Geotech Borings)         C. CDFW Section 1602 Agmt (Geotech Borings)         D. Nesting Season Coordination         E. Nest Survey and Report (Prior to Geotech Borings)         F. Plant Survey and Report (Prior to Geotech Borings)         G. Biological Monitoring of Geotech Borings (10 days)         H. HMMP (On-Site Mitigation)         I. Coordination (Off-Site Mitigation)         J. Off-Site (Bat Habitat) Coordination & Design         K. LSA HMMP (Off-Site Mitigation)         L. Section 404 Permit (Construction)         M. Section 404 Permit (Construction)         N. Checkin Seculary Control Construction)	S&E (100% Complete)  - Env. Permits and Mitigation Plan Section 404 Permit (Geotech Borings) Section 401 Cert (Geotech Borings) Section 1602 Agmt (Geotech Borings) Section 1602 Agmt (Geotech Borings) Season Coordination			term. 1 decomposed		
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1. Coordination (Off-Site Mitigation)         J. Off-Site (Bat Habitat) Coordination & Design         K. LSA HMMP (Off-Site Mitigation)         L. Section 404 Permit (Construction)         M. Section 401 Cert (Construction)         N. ChEM Section 407 Arm (Construction)         N. ChEM Section 407 Arm (Construction)	(On-Site Mitigation)				2272227000	
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N. COL W Geduct 1902 Agrin (College agriculture)	N. CDFW Section 1602 Agmt (Construction)					-
Article AVII - Construction Bidding Phase	- Construction Bidding Phase					
A. Construction Bidding Phase	ction Bidding Phase					
Article AVIII - Construction Support Phase	I - Construction Support Phase		a gaine a second	*****************************		
A. Construction Support Phase	ction Support Phase		Para de la constanta de la con			
Article AIV - Computer Services	- Computer Services					
A. Calculations	tions				1	
B. CADD						
Article AVV - Quality Control Plan	- Quality Control Plan		- Company of the Comp			

company: Diaz-Yourman		SCOPE OF WORK:  Construction Support	PHASE:	No. of the Control of
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	River (Br. No. 56C-0071)		DATE. August 19, 2019	
	\$56.00 \$36.06	\$28.00 \$23.80 \$22.87 \$38.97		
Total Manhours	•		40	1,921
Article AVII - Construction Bidding Phase				A 50 to 10 t
A. Construction Bidding Phase				
Article AVIII - Construction Support Phase			·	
A. Construction Support Phase	8 24		40 \$	\$ 1,921
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atsumi and Partners			SCOPE OF WORK: Project Summary					V Phases
IOJECT: Replacement of Mission Boulevard Bridge at Sar	nta Ana River (Br. No. 56C-0071	)	O SHE ST-400 And A SHE A MARK THAT THE REPORT OF A SHEET	nema recreationale de la Salvania de La Caldada de Cald			DATE: Augi	ust 14, 2019
RECT LABOR		elie anne recretares - 21 - Las Guestinos anterior			eneramenten varan skudida	and the second s	A Company of the Comp	ACCUMENTATION
RSONNEL		osta						ANACHART
David Tatsumi	Sr. Pricipal	aranaripanak 1927 menahangan		28	@	\$92.31	N. SOLDERSON STATE	\$2,584.68
Ryohei Ota	Associate/Sr. Project Manager			122	@	\$44.00		\$5,368.00
Jimmy Ogata	Senior Technical Staff			100 °	@	\$38.50		\$3,850.00
Nathan Quy	Technical Staff			210	@	\$36.50		\$7,665.00
Weywantheawy Kang	Landscape Staff			208	@	\$27.00		\$5,616.00
And the second contract and the contract		efetientendenen. III mid menek ses	TOTAL HOURS:	668	-	TOTAL AMOUNT:	CO-CONSTRUCTION OF THE PARTY OF	\$25,083.68
JLTIPLIERS								
ESCALATION @		WYSERFERMAN COMMON COMMON MARCHES	(Rates Vary by Phase)	. Kanada ayaa daabaa ahaa ahaa ahaa ahaa ahaa ahaa	- Marian Control of the Control			\$1,161.72
OVERHEAD @ (0.0% Fringe + 179.0% OH) = 179.0%		179.00%	(of Direct Labor + Escalation)					\$46,979.23
PAYROLL ADDITIVES @			(of Direct Labor + Escalation)					
PROFIT (FIXED FEE)		10.0%						\$7,322.47
					TOTA	L MULTIPLIERS:		\$55,463.46
THER DIRECT COSTS	· · · Billed at Actual Cost · · ·							
day digita sedim digita base da t			OLANTIT I A			UNIT COST		anount,
Reproduction			20	EA	@	\$13.50		\$270.00
CD (Digital Files)			1	EA	@	\$10.00		\$10.00
Soil Tests			4	EA	@	\$75.00		\$300.00
Mileage			516	МІ	@	\$0.545		\$281.2
estantibus dan estantibus de	etholdstate armonymetric ann ann an mar praeprilipping philosophia process an admitte chapter for philosophia a		de-constituent er senamen mantenan antercorne service service produce stour en specialistic deposit service en		and the second	TOTAL ODC'S:	OKSMITTER WEREALDER	\$861.22
B CONSULTANT SERVICES	575755515 2000 5 da 2445 compos (188580000000000000000000000000000000000		The second secon		woulder and the	antinetricus (dalainintoiretaraa-iuretako Japanos (tricis)	THE DESCRIPTION OF STREET	
According to the property of the second seco	16.63		LABOR	MILITIPLE ERS		GEO.	14.00	TOTAL

GRAND TOTAL

\$81,408.36

OMPANY: atsumi and Partners		SCOPE OF WORK: Plans, Specs & Estimates				PHASE: Phase II
ROJECT:		rians, specs & Estimates	Addition of Allertone statement of the second	namenno e noncesso meser miso ad 600 liabi sibili 200	. All the College of	DATE:
Replacement of Mission Boulevard Bridge at San	ta Ana River (Br. No. 56C-00	71)				August 14, 2019
RECT LABOR						
RSONNEL	POSI	ICH.	HOURS		TATE	ALC: N
David Tatsumi	Sr. Pricipal		26	@	\$92.31	\$2,400.06
Ryohei Ota	Associate/Sr. Project Manag	jer	110	@	\$44.00	\$4,840.00
Jimmy Ogata	Senior Technical Staff		92	@	\$38.50	\$3,542.00
Nathan Quy	Technical Staff		190	@	\$36.50	\$6,935.00
Weywantheawy Kang	Landscape Staff		188	@	\$27.00	\$5,076.00
	references allows a statement and a training of the super-epping condition. The descendent reason as province	TOTAL HOURS:	606	тот	AL AMOUNT:	\$22,793.06
ULTIPLIERS						•
ESCALATION @	3.61%	(of Direct Labor)	annesse annesse britany i salar 1996 (1996) (1996) (1996) (1996)	Epinowicouples con to a construction of the	en entre en entretaine en entre entre en entre entre en	\$823.86
OVERHEAD @ (0.0% Fringe + 179.0% OH) = 179.0%	179.00%	(of Direct Labor + Escalation)				\$42,274.28
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)				
PROFIT (FIXED FEE)	10.0%					\$6,589.12
	200 CO	CONTROL 1 - A VARIABLE SELECTION OF VERTICAL SELECTION OF THE VERTICAL		TOTAL M	ULTIPLIERS:	\$49,687.25
THER DIRECT COSTS	••• Billed at Actual Cost •••					
am property and the second second		GUANTITY	UNIT		TCOST	AMOUNT
Reproduction		20	EA	@	\$13.50	\$270.00
CD (Digital Files)		1 .	EA	@	\$10.00	\$10.00
Soil Tests		4	EA	@	\$75.00	\$300.00
Mileage		516	MI	@	\$0.545	\$281.22
		rendir ; , trocks etc. Sub-limentar mendelestrescopic est del sectoristical del communication (	Transmission and a series of the series of t	To	OTAL ODC'S:	\$861.22
JB CONSULTANT SERVICES						
COMPANY		LABOR	MU TRUERS			TOTAL

\$73,341.53

OMPANY: Fatsumi and Partners		SCOPE OF WORK:				PHASE:	se IV
ROJECT:		Construction Support	······································	MARKA SERVICE STATE OF THE SER		DATE:	ise IV
Replacement of Mission Boulevard Bridge at San	ta Ana Diver (Br. No. 56C 00	74)				1	14, 2019
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IRECT LABOR							
ERSONNEL	POSIT		Hours		RATE	AM	SUNT
David Tatsumi	Sr. Pricipal		2	@	\$92.31		\$184.62
Ryohei Ota	Associate/Sr. Project Manag	er	12	@	\$44.00		\$528.00
Jimmy Ogata	Senior Technical Staff		8	@	\$38.50		\$308.00
Nathan Quy	Technical Staff		20	@	\$36.50		\$730.00
Weywantheawy Kang	Landscape Staff		20	@	\$27.00		\$540.00
	Wilder State of the West Control of the State of the Stat	TOTAL HOURS:	62	TOT	AL AMOUNT:	and the state of t	\$2,290.62
IULTIPLIERS							
ESCALATION @	14.75%	(of Direct Labor)	www.no.ens.co.ou				\$337.87
OVERHEAD @ (0.0% Fringe + 179.0% OH) = 179.0%	179.00%	(of Direct Labor + Escalation)					\$4,704.99
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)					
PROFIT (FIXED FEE)	10.0%					*******************************	\$733.35
				TOTAL N	MULTIPLIERS:		\$5,776.20
THER DIRECT COSTS	· · · Billed at Actual Cost · · ·						
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UB CONSULTANT SERVICES							
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\$8,066.82

TOTAL

MANHOUR WORKSHEET COMPANY: SCO	SCOPE OF WORK:	HASE:
	Manhour Summary	
PROJECT:		DATE.
Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 560	2-0071)	August 14, 2019

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Admit 15, 2015   Admi	COMPANY: Tatsumi and Partners		SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II		*********
Ear State (1967) 1967 (1967) 1	PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana Rive	ver (Br. No. 56C-0071)		DATE: August 19, 2019	ra para de despera a a a para de despera de perio de perio de la companya de la despera de desperador de despe	
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Project Management           Project Management Plan / Nork Plan           Project Management Plan / Nork Plan           Project Management Plan / Nork Plan           Project Budgeting           C. Coal Accounting           Project Budgeting           C. Coal Accounting           Project Coat Accounting           Project Coat Accounting           Project Solveduing           Project Coatract Administration Services           Project Solveduing           Project Solveduing           Project Solveduing           Project Development and Registry Services           Contract Administration Services           Contract Administra	A. Project Management					
Project Ownerlogy         Project Management Plan / Work Plan           Project Contrology         B. Budgeflig           B. Budgeflig         B. Control Accounting           Project Cost Accounting         B. Endepending           Project Cost Accounting         B. Endepending           Project Scheduling         B. Endepending           Per Scheduling         B. Endepending           Per Scheduling         B. Endepending           Deal Scheduling <td>Project Management</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Project Management					
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B. Budgeleing           Project Budgeleing         Project Budgeleing           C. Cast Accounting         Project Cast Accounting           Project Cast Accounting         Project Budgeleing           Project Scheduling         Project Scheduling           E Progress Reporting         Project Scheduling           E Progress Reporting         Project Scheduling           Contract Administration Services         Contract Administration Services           G. Devite Scheduling         Project Information Services           G. Devite Scheduling         Project Information Services           Colorish User Administration         Project Information Services           Brick Specific Administration         Brick Specific Administration           Colorish User Administration         Brick Specific Administration           Monthly PDT Meetings         Brick Specific Administration           Colorish User Administration         Brick Specific Administration           English Specific Project Information         Brick Specific Administration <td>Project Chronology</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Project Chronology					
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C. Cost Accounting         Project Cost Accounting           D. Scheduling         Project Cost Accounting           Project Cost Accounting         Project Cost Accounting           Project Scheduling         Project Scheduling           Project Scheduling         Project Scheduling           Project Scheduling         Project Scheduling           Project Scheduling         Project Scheduling           Project Scheduling         Project Contract Administration Services           Per Specific Items         Per Specific Items           Per Specific Items         Per Specific Items           Per Specific Items         Per Specific Items           A Research and Data of Schriebing         Per Specific Items           A Research and Data of Project Information         Per Specific Items           A Research and Data of Schriebing         Per Specific Items           B. Project Development Team         Per Specific Items           Monthly PDT Meetings         Per Specific Items           C. Pearling School Schrieber         Per Specific Items           Data of Data of Project Information         Per Specific Items           C. Park of Training Report         Per Specific Items           E. Final Datages and Bridge Hydraulics         Per Specific Items           F. SWIPPP         Per SwiPPP	Project Budgeting					
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E. Progress Reporting           Progress Reporting           Progress Reporting           Progress Reporting           Contract Administration           Contract Administration           Contract Administration           Contract Administration           Contract Administration           After Search and Data Cathering           Cobin Updated Project Information           B. Project Development Team           Monthly 1DT Meetings           C. Permits           E. Final Data Cathering           Coordinate with County Surveys           Coordinate with County Surveys           Coordinate with County Surveys           Coordinate with County Surveys           Coordinate Report           Final Drivinge Report           Plott and Trial Bridge Hydraulics Report           Final Driving Report           Detail of Market Report           Poth and Indian Report           C. Plant Indian Report	Project Scheduling				ANTICOLOGICA CONTRACTOR CONTRACTO	
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Obtain Updated Project Information         Debtain Updated Project Information         Project Development Team         Project Development Team         Project Development Team         Permits	۸. Research and Data Gathering					M.13400357**
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C. Permits       C. Permits         C. Permits       C. Permits         Encroachment and Right-of-Entry Permits       Coordinate with Courty Surveys         D. Design Surveys       Coordinate with County Survey         E. Final Drainage Report       Coordinate with County Survey         Final Drainage Report       Coordinate with County Survey         Final Drainage Report       Coordinate Final TPG         Final Bridge Hydraulics Report       Coordinate Final TPG	3. Project Development Team					
C. Permits       C. Permits         Encroachment and Right-of-Entry Permits       6         D. Design Surveys       6         Coordinate with County Survey       7         E. Final Drainage and Bridge Hydraulics       7         Final On-Site Drainage Report       7         Update Final TPG       7         Final Bridge Hydraulics Report       7         F. SWPPP       7         Draff and Final SWPPP       7         G. Phase II Site Assessment       8	Monthly PDT Meetings					
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D. Design Surveys       D. Design Surveys         Coordinate with County Survey       Coordinate with County Survey         E. Final Drainage Report       Final On-Site Drainage Report         Final On-Site Drainage Report       Product Final Drainage Report         Final Bridge Hydraulics Report       Product Final SWPPP         F. SWPPP       Poraff and Final SWPPP         G. Phase II Site Assessment       Product Final SWPPP	Encroachment and Right-of-Entry Permits					
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Commun. Tatsumi and Partners	Score of work. Plans, Specs & Estimates	rnas: Phase II
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)		DATE: August 19, 2019
Data Review, Permitting, Utility Clearance		
Hazardous Materials Field and Lab Testing		
Draft and Final Phase II Site Assessment		
H. Final Geotechnical Design		
Draft and Final Materials Report		
GDR inc. Field Investigation		
Draft and Final Foundation Report		
ROE/Encroachment Coordination		
I. Architectural Details and Simulations		
Final Architectural Details and Coord.		
Bridge Visual Simulations		
Community Meetings		
J. Corps 408 Permit		
Section 408 Permit		
K, Final ROW Documents		
Final ROW Exhibits		
L. Utility Coordination		
Utility Letters		
Potholing Summary		
Final Utility Plans		
M. Misc. Design Support		
Updated Fact Sheet		
Traffic Management Plan		
Article AIV - Structures		
A. Structural Design and Calculations		
Complete Structural Design		
B. Independent Check and Quality Control		
Perform Structures IC and QC		The second secon
C. Structures Specifications and Estimate		
Develop Specifications and Estimate		7721372039
D. Structure PS&E		
Prepare 65% Unchecked PS&E		
Prepare 90% Checked PS&E		
Prepare 95% PS&E		
Prepare Final PS&E		

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1   1   1   1   1   1   1   1   1   1	COMPANY: Tatsumi and Partners				S _	OPE OF WORK: Plans, Specs & Estimates		PHASE: Phase II						
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1	D. Traffic Plans	<u> </u>	40	100	108							2	*	10,59
14 14 14 15 2 40 28 8 2	E. Miscellaneous Plans	20	28	14	16							- Augusto	ing and the same	2,90
3 20 16 52 40 71 8 10 10 10 10 10 10 10 10 10 10 10 10 10	F. Intermediate Reviews											примене		1,90
3 12 8 24 24 71 8 11 11 11 11 11 11 11 11 11 11 11 11	G. Specifications and Estimate	ļ	16	52	40								fra.	4,75
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Article AVI - Env. Permits and Mitigation Plan  A. USACE Section Aft Demnit (Science Borings)  B. NUGOE Section of Cert (Section Borings)  C. CDFW Section 1602 Agrit (Geotech Borings)  C. CDFW Section 1602 Agrit (Geotech Borings)  C. CDFW Section 1602 Agrit (Geotech Borings)  E. Nest Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Plant Survey and Report (Prior to Geotech Borings)  F. Construction (Stephant Planes)  A. Construction Support Phase  A. Construction Support Phase  Article AVII - Computer Services  Article AVII - Computer Services  B. CADD  Article AVII - Computer Services  B. CADD  Article AVII - County Control Plant  A. Candidations  B. CADD  Article AVII - County Control Plant  A. Candidations  F. Candidat	J. Final PS&E (100% Complete)			The second secon								ļis.		
A. USACE Section 404 Permit (Geotech Borings)  B. NWGOSe Section 410 Cert (Geotech Borings)  C. CDFW Section 1602 Again (Cedeche Borings)  D. Nesting Season Coordination  E. Nest Survay and Report (Prior to Geotech Borings)  C. DFW Section 1602 Again (Section Borings)  D. Nesting Season Coordination  E. Nest Survay and Report (Prior to Geotech Borings)  C. Biologicals Multipation)  C. CDFW Section 1602 Again (Section Borings)  H. HMAP (On-Site Mitigation)  J. Coordination (Ord Site Mitigation)  Article AVIV - Computer Services  A. Construction Bidding Phase  Acticle AVIV - Computer Services  A. Construction Plant  A. Coordinations  A. Construction Plant  A. Construction	Article AVI - Env. Permits and Mitigation Plan											Nettigation.		
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D. Nesting Season Coordination  E. Paret Survey and Report (Prior to Geotech Borings)  E. Paret Survey and Report (Prior to Geotech Borings)  G. Biological Monitoring of Geotech Borings (10 days)  H. HMMP (On-Site Mitigation)  L. Coordination (Off-Site Mitigation)  L. Coordination (Off-Site Mitigation)  L. Section 40 To Cert (Construction)  M. Copr W. Section 40 To Cert (Construction)  An Construction Bidding Phase  A. Construction Bidding Phase  A. Construction Support Phase  A. Construction Support Phase  A. Construction Support Phase  A. Construction Support Phase  A. Construction Bidding Phase	C. CDFW Section 1602 Agmt (Geotech Borings)											0100 Aug 1000		
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F. Plant Survey and Report (Prior to Geotech Borings)         F. Plant Survey and Report (Prior to Geotech Borings)           G. Biological Monitoring of Geotech Borings (10 days)         F. Charley Monitoring of Geotech Borings (10 days)           H. Charley Monitoring of Geotech Borings (10 days)         F. Charley Mingation)           J. Off-Site (Bat Habitat) Construction)         K. LSA HAMMP (Off-Site Mingation)           K. LSA HAMMP (Off-Site Mingation)         L. Section 404 Fermit (Construction)           N. CDFW Section 10 Construction)         N. CDFW Section 10 Construction (Construction)           N. CDFW Section 10 Construction Bidding Phase         A. Construction Bidding Phase           A. Construction Support Phase         A. Construction Support Phase           A. Construction Support Phase         A. Candinations           B. CADD         A. Charilly Control Plan           A. Charilly Control Plan         A. Charilly Control Plan	E. Nest Survey and Report (Prior to Geotech Borings)													
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1. Coordination (Off-Site Mitigation)         1. Off-Site Mitigation)           J. Off-Site (Bat Habital) Coordination & Design         K. LSA HMMP (Off-Site Mitigation)           K. LSA HMMP (Off-Site Mitigation)         C. Section 404 Permit (Construction)           M. Section 401 Cert (Construction)         N. Construction)           N. CDFW Section 1602 Agrit (Construction)         Article AVII - Construction Blidding Phase           A. Construction Blidding Phase         Article AVII - Construction Support Phase           A. Construction Support Phase         A. Construction Support Phase           A. Calculations         B. CADD           A. Challed AVII - Computer Services         A. Challed AVII - Control Plan	H. HMMP (On-Site Mitigation)											00000100000		
J. Off-Site (Bat Habitat) Coordination & Design       J. Off-Site (Bat Habitat) Coordination & Design         K. LSA HMMP (Off-Site Mitigation)       L. Section 404 Permit (Construction)         M. Section 404 Permit (Construction)       A. Section 404 Permit (Construction)         M. Section 404 Permit (Construction)       Article AVII - Construction Budding Phase         Article AVIII - Construction Budding Phase       A. Construction Support Phase         A. Construction Support Phase       Article AVIII - Computer Services         Article AVIII - Computer Services       A. Calculation on Support Phase         Article AVIII - Computer Services       A. Calculation on Support Phase         A. Calculation on Support Phase       A. Calculation on Support Phase         Article AVIII - Computer Services       A. Calculation on Support Phase         Article AVIII - Computer Services       A. Calculation on Support Phase	I. Coordination (Off-Site Mitigation)						0.00.00.00.00.00.00.00.00.00.00.00.00.0					22742247		
K. LSA HMMP (Off-Site Mitigation)         K. LSA HMMP (Off-Site Mitigation)           L. Section 404 Permit (Construction)         A. Section 404 Permit (Construction)           M. Section 401 Cert (Construction)         A. Section 401 Cert (Construction)           N. CDFW Section 1602 Agmit (Construction)         Article AVII - Construction Bidding Phase           A. Construction Bidding Phase         A. Construction Support Phase           A. Construction Support Phase         A. Construction Support Phase           A. Construction Support Phase         A. Construction Support Phase           A. Calculations         B. CADD           A. Calculations         B. CADD           A. Construction Plan         A. Construction Plan	J. Off-Site (Bat Habitat) Coordination & Design													
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M. Section 401 Cert (Construction)         M. Section 401 Cert (Construction)         A. CoDFW Section 1602 Agmt (Construction)         Article AVII - Construction Bidding Phase         Article AVII - Construction Bidding Phase         Article AVII - Construction Bidding Phase         Article AVIII - Construction Support Phase         Art	L. Section 404 Permit (Construction)		-	n0								2000000		
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A. Construction Bidding Phase         Article AVIII - Construction Support Phase         Article AVIII - Construction Support Phase           A. Construction Support Phase         Article AVI - Computer Services         Article AVI - Computer Services           A. Calculations         B. A. Calculations         B. Article AVI - Control Plan           Article AVI - Quality Control Plan         B. A. Calculations         B. A. Calculation Plan	Article AVII - Construction Bidding Phase											Secretary.		
Article AVIII - Construction Support Phase         A. Construction Support Phase           Article AIV - Computer Services         A. Calculations           B. CADD         Article AVV - Quality Control Plan           A Chickity Management Dlan         A. Chickity Management Dlan	A. Construction Bidding Phase			•								22298440		
A. Construction Support Phase         Article AIV - Computer Services           A. Calculations         A. Calculations           B. CADD         Article AIV - Control Plan           A. Calculation Article Air An - Quality Control Plan         Article AIV - Control Plan	Article AVIII - Construction Support Phase											annorus.		
Article AIV - Computer Services           A. Calculations           B. CADD           Article AIV - Quality Control Plan           Article AIV - Agrantic Day	A. Construction Support Phase		With of Street Language	ana verances	ga approximate		# C-+000000			Steel Steel Steel		processa sa		
A. Calculations  B. CADD  Article AVA-Quality Control Plan	Article AIV - Computer Services											de construir		
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Article Vol Article Flan  A Tricle Flan  A Tricl	B. CADD		-											
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	, 2019													Anda ada ada ada ada ada ada ada ada ada							
PHASE	DATE: August 19, 2019							TOTAL													Absolution
SCOPE OF WORK:								MARTING ANAMASINA DELICATION FOR THE STATE OF THE STATE O		And and an analysis of the second sec			 AMARINE MATERIAL AND ANALYSIS ANA ANALYSIS AND ANALYSIS A			NOT THE MENT OF THE PARTY OF TH					
	-0071)	\$38.50 \$36.50 \$27.00 8 20 20	07			8 20 20															
	nta Ana River (Br. No. 56C	\$92.31 \$44.00 \$38				2 12															
MANHOUR WORKSHEET COMPANY. Takening and Dathara	PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	Total Manhours	Otal maintours	A. Construction Bidding Phase	Article AVIII - Construction Support Phase	A. Construction Support Phase				Vijeda na dendraten i i masse den i masse meneri i i i i i i i i i i i i i i i i i i										00/00/00/00/00/00/00 тів ітпій тів тів дей тапата папата папата постдення папата папа	

Replacement of Mission Boulevard	Bridge at Santa Ana Riv	er (Br. No. 56C-0071)	nacembar :					DATE: August 14, 201
RECT LABOR								
RSONNEL	12		SITION				FATEURS.	
Wayne Chang	Pricipal				390	@	\$64.940	\$25,326.6
	De formation de maineur de commente en réconne en engant d'autre (200-400 de 190-400 de 190-400 de 190-400 de		Professor	TOTAL HOURS:	390	TC	TAL AMOUNT:	\$25,326.0
JLTIPLIERS								
ESCALATION @	and the control of th		erongstock in otherwise	(Rates Vary by Phase)	CONTRACTOR OF THE CONTRACTOR O	graphic graphic for the specific and consideration of the specific and con		\$1,172.9
OVERHEAD @ (Safe Harbor Rate)			115.00%	(of Direct Labor + Escalation)				\$30,474.4
PAYROLL ADDITIVES @				(of Direct Labor + Escalation)				
PROFIT (FIXED FEE)			10.0%					\$5,697.4
						TOTAL	MULTIPLIERS:	\$37,344.8
THER DIRECT COSTS	· · · Billed	at Actual Cost •••						
	144			CHANTITY			Unicost	
Reproduction			Andread Control of the Control of th	1	EA	@	\$500.00	\$500.0
CLOMR Processing Fee				1	EA	@	\$7,250.00	\$7,250.0
LOMR Processing Fee				1	EA	@	\$8,250.00	\$8,250.0
LOMR (1 Map Panel) Fee				1	EA	@	\$2,500.00	\$2,500.0
FEMA processing fees subject to ch	hange							
		methyleri vilkyt olehab yt film ei o'r bannas derda deprement aan o abbandgan aa maa 'n sides i w	and the second second	ippy is the first securities their while weak with the control of		ng ngi ng mga di dalah di nengengan di dalah di dalah di dalah di nengengan di dalah di dalah di nengengan di dalah di	TOTAL ODC'S:	\$18,500.0

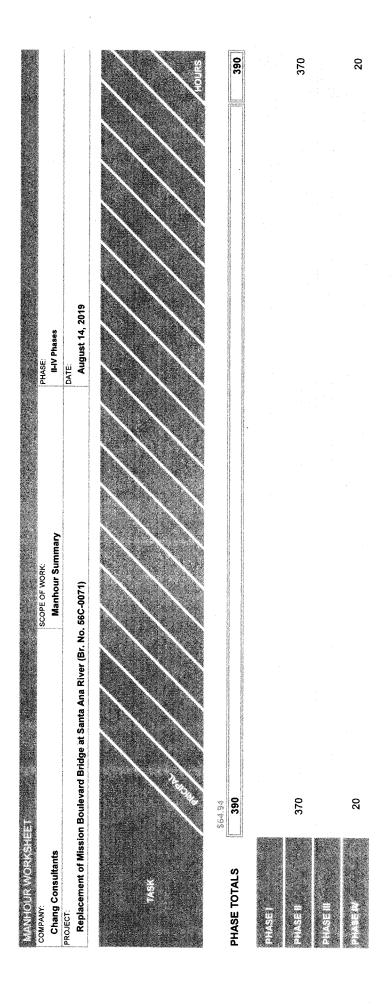
TOTAL SUBCONSULTANT SERVICES

GRAND TOTAL

\$81,171.46

Chang Consultants		SCOPE OF WORK: Plans, Specs & Estimates			Phase II
ROJECT: Replacement of Mission Boulevard Bridge a	ut Santa Aga River (Br. No. 56C-0	071)			DATE: August 14, 2019
IRECT LABOR					
FRSGNNEL				S. P. W. PATERNI	AMOUNT
Wayne Chang	Pricipal		370	@ \$64.94	\$24,027.80
			National Angles and Report States of the Angles of the Ang		
		TOTAL HOURS:	370	TOTAL AMOUNT	°: \$24,027.80
ULTIPLIERS					
ESCALATION @	4.12%	(of Direct Labor)	eren verenenanak tea oli voil kunsela alkielusti 1949		\$989.95
OVERHEAD @ (Safe Harbor Rate)	115.00%	(of Direct Labor + Escalation)			\$28,770.41
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)			
PROFIT (FIXED FEE)	10.0%				\$5,378.82
			r communication and the second and t	TOTAL MULTIPLIERS	\$35,139.17
THER DIRECT COSTS	· · · Billed at Actual Cost · ·	•			
	The second	THEFAULT	JNT	0.00	AMOUNT II
		1	EA	@ \$500.00	ent amountainementainementainementainementainementaine
Reproduction				<del>-</del>	
Reproduction CLOMR Processing Fee		1	EA	@ \$7,250.00	J \$7,250.00
•		1 1	EA EA	@ \$7,250.00 @ \$8,250.00	
CLOMR Processing Fee		1 1 1			\$8,250.00
CLOMR Processing Fee LOMR Processing Fee		1 1 1	EA	@ \$8,250.00	\$8,250.00
CLOMR Processing Fee LOMR Processing Fee LOMR (1 Map Panel) Fee		1 1 1	EA	@ \$8,250.00	\$8,250.00
CLOMR Processing Fee LOMR Processing Fee LOMR (1 Map Panel) Fee		1 1 1	EA	@ \$8,250.00	\$8,250.00
CLOMR Processing Fee LOMR Processing Fee LOMR (1 Map Panel) Fee			EA	@ \$8,250.00	) \$8,250.00 ) \$2,500.00
CLOMR Processing Fee LOMR Processing Fee LOMR (1 Map Panel) Fee FEMA processing fees subject to change			EA	@ \$8,250.00 @ \$2,500.00	\$8,250.00 \$2,500.00
CLOMR Processing Fee LOMR Processing Fee LOMR (1 Map Panel) Fee		1 1 1	EA	@ \$8,250.00 @ \$2,500.00	\$8,250.00 \$2,500.00

OMPANY: Chang Consultants	And the second s		SCOPE OF WORK:  Construction Support			PHASE: Phase IV
ROJECT:	**************************************		construction support	era wagon wagon oo o		DATE:
Replacement of Mission Boulevard Bride	ge at Santa Ana River (E	Br. No. 56C-00	71)			August 14, 2019
RECT LABOR						
RSONNEL		POSIT	CO.	Hours	145 W.W	AMOUNT
Wayne Chang	Pricipal		DOS - AND	20	@ \$64.94	\$1,298.80
			TOTAL HOURS:	20	TOTAL AMOUNT:	\$1,298.80
ULTIPLIERS						
ESCALATION @		14.09%	(of Direct Labor)			\$183.01
OVERHEAD @ (Safe Harbor Rate)		115.00%	(of Direct Labor + Escalation)			\$1,704.09
PAYROLL ADDITIVES @			(of Direct Labor + Escalation)			
PROFIT (FIXED FEE)		10.0%				\$318.59
		-00 E-00 E-00 (100 (100 (100 (100 (100 (100 (100 (	orden i i m se seconomique de mondocomique una casa sea un reconorio sorte de miseriar discribitibido estr 	SCORE STATE OF THE	TOTAL MULTIPLIERS:	\$2,205.69
THER DIRECT COSTS	••• Billed at A	Actual Cost •••				
A.	Dinog G()	totaai 000t		ille i		
		AMARIA MININGROOM CONTRACTOR AND AND AND	The Control of the Management of the Control of the	ADAR ST.	TOTAL ODC'S:	no man constructive de la constructivo de la constr
JB CONSULTANT SERVICES						
COMPA						alle the second
				10 30 S		
	- Company of the Company of Compa		an error ,	TOTAL SUPO	ONSULTANT SERVICES:	in Ordenbula in in Militaria and dan managan ana dan malaman ana ana
				IOIAL SUBC	CHOOLIAN SERVICES.	
					TOTAL	\$3,504.49



MANHOUR WORKSHEET		B. 1988年 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 19				
Commany: Chang Consultants	МООМ ЛЕЗМАТАТ Лез рен переставритовический компониций компониций дейский переда пределений пределений в перест	SCOPE OF WORK:  Plans, Specs & Estimates	PHASE:			
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071	r (Br. No. 56C-0071)		DATE: August 19, 2019			
Total Manhours	\$64.94 370				370	24,028
Article All - Project Administration						
A. Project Management						
Project Management	ANY ARIANA MANAGAMBANA AND AND AND AND AND AND AND AND AND					111111111111111111111111111111111111111
Project Management Plan / Work Plan						AND THE PERSON NAMED IN COLUMN TWO
Project Chronology						
Project Budgeting						
C. Cost Accounting					34.35° 18 (a.u., 18.1	
Project Cost Accounting						
D. Scheduling			The state of the s			Market St. C.
Project Scheduling						
E. Progress Reporting						
Progress Reporting						
F. Contract Administration						
Contract Administration Services						
G. Deliverables						
Per Specific Items	And an inches in the control of the					
Aricle Alli - Flanning and Proj. Dev.						
A. Research and Data Gathering				OR SERVICE		
Obtain Updated Project Information						
B. Project Development Team				223/06:990		
Monthly PDT Meetings				N2000.279		
C. Permits						A-1-1-4
Encroachment and Right-of-Entry Permits				NEW (1882) 18		MERCAL MINE TO
D. Design Surveys				2.004.000		
Coordinate with County Survey						erroration and the
E. Final Drainage and Bridge Hydraulics						
Final On-Site Drainage Report						
Update Final TPG					and the second s	
Final Bridge Hydraulics Report	370			-	4	24,028
F. SWPPP						
Draft and Final SWPPP						
G. Phase II Site Assessment	American Commence of the Comme					

Trainic Contentions   Trainic Contentions	COMBANIX	COMPANY			
and An River (Br. No. 56C-6077)	Chang Consultants	0	SCUPE OF WORK. Plans, Specs & Estimates	Phase II	
	PROJECT.  Replacement of Mission Boulevard Bridge at Santa Ana Riv	er (Br. No. 56C-0071)		DATE:  August 19, 2019	
	Data Review Permitting Hillin Clearance				
	Hazardous Materials Field and Lat Lecting				
	Draft and Final Phase II Site Assessment				
	H. Final Geotechnical Design				
	Draft and Final Materials Report				
	GDR inc. Field Investigation				And the second of the second s
	Draft and Final Foundation Report				
	ROE/Encroachment Coordination				THE PROPERTY OF THE PROPERTY O
	I. Architectural Details and Simulations				
	Final Architectural Details and Coord.				
	Bridge Visual Simulations				
	Community Meetings				
	J. Corps 408 Permit				The state of the s
	Section 408 Permit				
	K. Final ROW Documents				And the contract of the contra
	Final ROW Exhibits				
	L. Utility Coordination	G THE	Commence of the Commence of th		The second secon
	Utility Letters				The second secon
	Potholing Summary				
	Final Utility Plans				
Updated Fact Sheet         Pubdated Fact Sheet           Traffic Management Plan         Article AIV - Structures           Article AIV - Structures         Structural Design and Calculations           A. Structural Design and Calculations         Complete Structural Design           B. Independent Check and Quality Control         Perform Structures IC and QC           C. Structures Specifications and Estimate         Develop Specifications and Estimate           Develop Specifications and Estimate         Develop Specifications and Estimate           D. Structure PS&E         Prepare 65% Unchecked PS&E           Prepare 90% Checked PS&E         Prepare 95% SPS&E	M. Misc. Design Support				Personal de commence de commen
Article ANV - Structures         Article ANV - Structures           A. Structural Design and Calculations         A. Structural Design and Calculations           Complete Structural Design         B. Independent Check and Quality Control           Perform Structures IC and QC         C. Structures Specifications and Estimate           Develop Specifications and Estimate         Develop Specifications and Estimate           Prepare 65% Unchecked PS&E         Prepare 65% Unchecked PS&E           Prepare 95% PS&E         Prepare 95% PS&E	Updated Fact Sheet				
Article AIV - Structures         A Structures           A. Structural Design and Calculations         6           Complete Structural Design         7           B. Independent Check and Quality Control         7           Perform Structures IC and QC         7           C. Structures Specifications and Estimate         7           Develop Specifications and Estimate         7           D. Structure PS&E         7           Prepare 65% Unchecked PS&E         7           Prepare 95% Unchecked PS&E         7           Prepare 95% PS&E         7	Traffic Management Plan				The state of the s
A. Structural Design and Calculations         A. Structural Design           Complete Structural Design         B. Independent Check and Quality Control           B. Independent Check and Quality Control         C. Structures IC and QC           C. Structures Specifications and Estimate         C. Structure Pose           Develop Specifications and Estimate         C. Structure Pose           D. Structure Pose         C. Structure Pose           Prepare 65% Unchecked Pose         C. Structure Pose           Prepare 90% Checked Pose         C. Structure Pose           Prepare 95% Pose         C. Structure Pose	Article AIV - Structures				
Complete Structural Design         Complete Structural Design           B. Independent Check and Quality Control         Complete Structures IC and QC           C. Structures Specifications and Estimate         Complete Structure Structure Post           D. Structure Post         Complete Structure Post           Prepare 65% Unchecked Post         Complete Structure Post           Prepare 90% Checked Post         Complete Structure Post           Prepare 95% Post         Complete Structure Post	A. Structural Design and Calculations				
B. Independent Check and Quality Control           Perform Structures IC and QC           C. Structures Specifications and Estimate           Develop Specifications and Estimate           D. Structure PS&E           Prepare 65% Unchecked PS&E           Prepare 90% Checked PS&E           Prepare 95% PS&E	Complete Structural Design				
Perform Structures IC and QC           C. Structures Specifications and Estimate           Develop Specifications and Estimate           D. Structure PS&E           Prepare 65% Unchecked PS&E           Prepare 90% Checked PS&E           Prepare 95% PS&E	B. Independent Check and Quality Control				
C. Structures Specifications and Estimate           Develop Specifications and Estimate           D. Structure PS&E           Prepare 65% Unchecked PS&E           Prepare 90% Checked PS&E           Prepare 95% PS&E	Perform Structures IC and QC				
Develop Specifications and Estimate         D. Structure PS&E           D. Structure PS&E         Prepare 65% Unchecked PS&E           Prepare 90% Checked PS&E         Prepare 95% PS&E	C. Structures Specifications and Estimate				
D. Structure PS&E           Prepare 65% Unchecked PS&E           Prepare 90% Checked PS&E           Prepare 95% PS&E	Develop Specifications and Estimate				
Prepare 65% Unchecked PS&E Prepare 90% Checked PS&E Prepare 95% PS&E	D. Structure PS&E				
Prepare 95% PS&E	Prepare 65% Unchecked PS&E				
Prepare 95% PS&E	Prepare 90% Checked PS&E				
	Prepare 95% PS&E				
Prepare Final PS&E	Prepare Final PS&E				

MANHOUR WORKSHEET	ACCURACY OF THE PROPERTY OF TH		
Consultants	Plans, Specs & Estimates	Phase II	* 00°00-02°0304666
Probect: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)		DATE: August 19, 2019	
RE Pending File			
Article AV Roadway			
A. Basic Roadway Plans			
B. Calculations			
C. Drainage Plans			-
D. Traffic Plans			
E. Miscellaneous Plans			
F. Intermediate Reviews			
G. Specifications and Estimate			
H. Quality Control			
i. Draft PS&E (95% Complete)			
J. Final PS&E (100% Complete)			
Article AVI - Env. Permits and Mitigation Plan			
A. USACE Section 404 Permit (Geotech Borings)			T
B. RWQCB Section 401 Cert (Geotech Borings)			T
C. CDFW Section 1602 Agmt (Geotech Borings)			
D. Nesting Season Coordination			
E. Nest Survey and Report (Prior to Geotech Borings)			
F. Plant Survey and Report (Prior to Geotech Borings)	The control of the co		
G. Biological Monitoring of Geotech Borings (10 days)			· ·
H. HMMP (On-Site Mitigation)			
I. Coordination (Off-Site Mitigation)			
J. Off-Site (Bat Habitat) Coordination & Design			
K. LSA HMMP (Off-Site Mitigation)			
L. Section 404 Permit (Construction)			
M. Section 401 Cert (Construction)			
N. CDFW Section 1602 Agmt (Construction)			
Article AVII - Construction Bidding Phase			
A. Construction Bidding Phase			T
Article AVIII - Construction Support Phase			***************************************
A. Construction Support Phase			-
Article AIV - Computer Services			T
A. Calculations			
B. CADD			
A Chelify Management Blan			
7. Kudany Manageriten Fian			

WANHOUR WORKSHEET COMPANY	WHOM 40 ACCUS	SSTIG
Chang Consultants		Phase IV
Problem. Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)	River (Br. No. 56C-0071)	DATE: August 19, 2019
	300	
Total Manhours	20	20 1,299
Article AVII - Construction Bidding Phase		
A. Construction Bidding Phase		
Article AVIII - Construction Support Phase		
A. Construction Support Phase	20	20 \$ 1,299
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## **AMENDMENT 1 • APPENDIX 1D**

**Maximum Position Hourly Rates** 

## KLEINFELDER

## Staff Escalations Kleinfelder

	Neillielder									
	2019	2020	0.	2021	2022	7	2023	2024	2025	5.
Function	Max	Max	×	Max	Max		Max	Max	Max	×
Project Manager	\$ 106.98	\$ 11	110.72 \$	114.60	\$ 118.61	₩	122.76	\$ 127.06	↔	131.51
Senior Structural Engineer	\$ 85.09	\$	\$8.07	91.15	\$ 94.34	€9	97.64	\$ 101.06	↔	104.60
Senior Bridge Engineer	\$ 74.04	2 \$	76.63 \$	79.31	\$ 82.09	₩	84.96	\$ 87.94	<del>⇔</del>	91.01
Senior Bridge Engineer	\$ 56.75	\$ 2	58.74 \$	60.79	\$ 62.92	€9	65.12	\$ 67.40	ક્ર	92.69
Assistant Engineer	\$ 38.46	8 3	39.81	41.20	\$ 42.64	<del>⇔</del>	44.13	\$ 45.68	↔	47.28
Senior Technician	\$ 64.90	9 \$	67.17	69.52	\$ 71.96	ક્ક	74.47	\$ 77.08	↔	79.78
Deputy Project Manager	\$ 55.77	\$ 5	57.72 \$	59.74	\$ 61.83	မှာ	64.00	\$ 66.24	↔	68.56
Project Controls	\$ 42.55	\$ 4	44.04 \$	45.58	\$ 47.18	\$	48.83	\$ 50.54	ક્ક	52.30
Sr. Project Manager/Geotechnical	\$ 88.95	\$	92.06	95.29	\$ 98.62	\$	102.07	\$ 105.64	\$	109.34
Sr. Seismic Engineer	\$ 82.74	\$	85.64 \$	88.63	\$ 91.74	\$	94.95	\$ 98.27	\$ 101.71	.71
Sr. Geotechnical Engineer	\$ 70.67	2 \$	73.14 \$	75.70	\$ 78.35	\$	81.10	\$ 83.93	ક્ક	86.87
Sr. Geologist	\$ 57.21	\$ 2	59.21 \$	61.28	\$ 63.43	\$	65.65	\$ 67.95	\$	70.33
Project Geotechnical Engler	\$ 38.46	\$	39.81	41.20	\$ 42.64	\$	44.13	\$ 45.68	€9	47.28
Staff Geotechnical Engineer	\$ 34.18	\$	35.38 \$	36.61	\$ 37.90	\$	39.22	\$ 40.60	\$	42.02
Sr. CADD/GIS	\$ 42.31	\$ 4	43.79 \$	45.32	\$ 46.91	\$	48.55	\$ 50.25	↔	52.01
Project Administrator / Word Processing	\$ 32.00	\$	33.12 \$	34.28	\$ 35.48	↔	36.72	\$ 38.01	\$ 39	39.34
Technical Reviews	\$ 65.77	9 \$	68.07 \$	70.45	\$ 72.92	\$	75.47	\$ 78.11		80.85
3D Design and Visualization Specialist	\$ 48.18	\$ 4	49.87 \$	51.61	\$ 53.42	\$	55.29	\$ 57.22	\$ 29	59.23
Staff Architect / QA/QC	\$ 31.11	\$ 37	32.20 \$	33.33	\$ 34.49	₩	35.70	\$ 36.95	€>	38.24
Administrative	\$ 37.34	\$ 3	38.65	40.00	\$ 41.40	↔	42.85	\$ 44.35	↔	45.90
Administrative	\$ 22.43	\$ 2:	23.22 \$	24.03	\$ 24.87	ક	25.74	\$ 26.64	↔	27.57
										1

		2019		2020	2	2021	7	2022	7	2023	7(	2024	2	2025
Function		Max		Max		Max	_	Max	٧	Max	2	Max	2	Max
Principal in Charge	\$	115.83	\$	119.88	↔	124.08	\$	128.42	\$	132.92	€	137.57	& _	142.38
Environmental Task Manager	↔	52.03	₩	53.85	€	55.74	\$	57.69	\$	59.71	\$	61.80	\$	63.96
Principal Technical Staff	\$	77.63	\$	80.35	\$	83.16	\$	86.07	\$	80.68	\$	92.20	₩	95.43
Associate Technical Staff	\$	57.08	↔	59.08	ક	61.15	\$	63.29	\$	65.50	\$	67.79	₩	70.17
Senior Technical Staff	\$	47.41	↔	49.07	s>	50.79	↔	52.56	\$	54.40	\$	56.31	↔	58.28
Technical Staff	\$	32.15	₽	33.28	↔	34.44	ક્ક	35.65	\$	36.89	\$	38.18	₩.	39.52
Assistant Technical Staff	ક	28.08	₩	29.06	ક્ર	30.08	\$	31.13	\$	32.22	\$	33.35	\$	34.52
Word Processing	ક	35.10	€9	36.33	s	37.60	8	38.92	\$	40.28	\$	41.69	\$	43.15
GIS	\$	61.24	\$	63.38	₩	65.60	ક્ક	67.90	↔	70.27	\$	72.73	\$	75.28
Administrative Support	€	22.48	49	23.27	ક્ર	24.08	<del>S</del>	24.92	↔	25.80	\$	26.70	↔	27.63

### KIMLEY-HORN

	2019	2020	2021	2022	2023	2024	2025
Function	Max	Max	Max	Max	Max	Max	Max
Senior Roadway Engineer	\$ 89.92	\$ 93.07	\$ 96.32	\$ 99.70	\$ 103.19	\$ 106.80	\$ 110.53
Traffic Engineer	\$ 62.26	\$ 64.44	69.99 \$	\$ 69.03	\$ 71.44	\$ 73.95	\$ 76.53
QC/Senior Engineer	\$ 75.00	\$ 77.63	\$ 80.34	\$ 83.15	\$ 86.06	\$ 89.08	\$ 92.19
Landscape Architect	\$ 60.10	\$ 62.20	\$ 64.38	\$ 66.63	\$ 68.97	\$ 71.38	\$ 73.88
Project Engineer Civil	\$ 41.36	\$ 42.81	\$ 44.31	\$ 45.86	\$ 47.46	\$ 49.12	\$ 50.84
Project Engineer Traffic	\$ 42.56	\$ 44.05	\$ 45.59	\$ 47.19	\$ 48.84	\$ 50.55	\$ 52.32
Engineer	\$ 37.74	90.66 \$	\$ 40.43	\$ 41.84	\$ 43.31	\$ 44.82	\$ 46.39
Assistant Engineer/Technician	\$ 31.26	\$ 32.35	\$ 33.49	\$ 34.66	\$ 35.87	\$ 37.13	\$ 38.43
CADD Designer	\$ 40.00	\$ 41.40	\$ 42.85	\$ 44.35	\$ 45.90	\$ 47.51	\$ 49.17
Administrative	\$ 36.30	\$ 37.57	\$ 38.89	\$ 40.25	\$ 41.66	\$ 43.11	\$ 44.62

### **DIAZ-YOURMAN**

	5019		2020	2021		2022	2023		2024	7	2025
Function	Max		Max	Max		Мах	Мах		Max	۱ ا	Max
Principal	\$ 80.30	\$ 08	83.11	\$ 86.02	32 \$	89.03	\$ 92.15	15 \$	95.37	\$	98.71
Associate II	\$ 61.37	\$ 28	63.52	\$ 65.74	74 \$	68.04	\$ 70.42	12 \$	72.89	↔	75.44
Associate I	\$ 26.00	\$ 00	57.96	\$ 59.99	\$ 66	62.09	\$ 64.26	\$ 97	66.51	↔	68.84
Project I	\$ 36.06	\$ 90	37.32	\$ 38.63	33 \$	39.98	\$ 41.38	38 \$	42.83	\$	44.33
Staff II	\$ 34.62	\$ 2	35.83	\$ 37.09	\$ 60	38.38	\$ 39.73	73 \$	41.12	8	42.56
Staff I	\$ 28.00	\$ 00	28.98	\$ 29.99	\$ 66	31.04	\$ 32.13	13 \$	33.26	ક્ક	34.42
CADD	\$ 23.90	\$ 00	24.74	\$ 25.60	\$ 09	26.50	\$ 27.43	t3 \$	28.39	\$	29.38
Word Processor	\$ 22.97	\$ 2	23.77	\$ 24.61	31 \$	25.47	\$ 26.36	\$ 98	27.28	\$	28.24
Technical Editor	\$ 36.97	\$ 2	38.26	\$ 39.60	\$ 00	40.99	\$ 42.42	\$ 21	43.91	\$	45.45
								Н			

### TATSUMI

Function Ma	0,00							
	2019	0707	2021	2022	2023	.,	2024	2025
	Max	Max	Max	Max	Max		Max	Max
Senior Principal	92.31	\$ 95.54	\$ 98.88	\$ 102.35	\$ 105.93	€9	109.64	\$ 113.47
Associate/Sr. Project Manager	46.40	\$ 48.02	\$ 49.70	\$ 51.44	\$ 53.25	\$	55.11	\$ 57.04
Senior Technical Staff	41.00	\$ 42.44	\$ 43.92	\$ 45.46	\$ 47.05	€9	48.70	\$ 50.40
Technical Staff	38.50	\$ 39.85	\$ 41.24	\$ 42.69	\$ 44.18	₩	45.73	\$ 47.33
Landscape Staff	29.00	\$ 30.02	\$ 31.07	\$ 32.15	\$ 33.28	69	34.44	\$ 35.65

### CHANG

	Chang						
	2019	2020	2021	2022	2023	2024	2025
Function	Max	Max	Max	Max	Мах	Max	Max
Principal	\$ 64.94	\$ 67.21	\$ 69.57	\$ 72.00	\$ 74.52	\$ 77.13 \$	\$ 79.83

### **AMENDMENT 1 • APPENDIX 1E**

**Mandatory Fiscal and Federal Provisions (Verbatim)** 

### APPENDIX E MANDATORY FISCAL AND FEDERAL PROVISIONS

(Based on Caltrans 10-R Dated August 2016)

### **Definitions:**

- A. CONSULTANT means the same as ENGINEER in the Agreement.
- B. Contract means the same as Agreement in the Agreement.
- C. LOCAL AGENCY means the same as COUNTY in the Agreement
- D. Contract Administrator means the same as COUNTY PROJECT MANAGER in the Agreement

### **Mandatory Fiscal and Federal provisions:**

Article I	Performance Period	E-1
Article II	Allowable Costs and Payments	
Article III	Termination	
Article IV	Cost Principles and Administrative Requirements	
Article V	Retention of Records/Audit	
Article VI	Audit Review Procedures	
Article VII	Subcontracting	
Article VIII	Equipment Purchase	
Article IX	State Prevailing Wage Rates	
Article X	Conflict of Interest	
Article XI	Rebates, Kickbacks or other Unlawful Consideration	E-5
Article XII	Prohibition of Expending Local Agency State or Federal Funds for Lobbying	E-5
Article XIII	Statement of Compliance	
Article XIV	Debarment and Suspension Certification	
Article XV	Disadvantaged Business Enterprises (DBE) Participation	
	- · · · · · · · · · · · · · · · · · · ·	

### **ARTICLE I PERFORMANCE PERIOD (Verbatim)**

- A. This contract shall go into effect on \_\_\_\_\_\_ contingent upon approval by LOCAL AGENCY, and CONSULTANT shall commence work after notification to proceed by LOCAL AGENCY'S Contract Administrator. The contract shall end on **December 31, 2025** unless extended by contract amendment.
- B. CONSULTANT is advised that any recommendation for contract award is not binding on LOCAL AGENCY until the contract is fully executed and approved by LOCAL AGENCY.

### ARTICLE II ALLOWABLE COSTS AND PAYMENTS (Verbatim)

A. The method of payment for this contract will be based on actual cost plus a fixed fee. LOCAL AGENCY will reimburse CONSULTANT for actual costs (including labor costs, employee benefits, travel, equipment rental costs, overhead and other direct costs) incurred by CONSULTANT in performance of the work. CONSULTANT will not be reimbursed for actual costs that exceed the estimated wage rates, employee benefits, travel, equipment rental, overhead, and other estimated costs set forth in the approved CONSULTANT'S Cost Proposal, unless additional reimbursement is provided for by contract amendment. In no event, will CONSULTANT be reimbursed for overhead costs at a rate that exceeds LOCAL AGENCY's approved overhead rate set forth in the Cost Proposal. In the event, that LOCAL AGENCY determines that a change to the work from that specified in the Cost Proposal and contract is required, the contract time or actual costs reimbursable by LOCAL AGENCY shall be adjusted by contract amendment to accommodate the changed work. The maximum total cost as specified in Paragraph "H" shall not be exceeded, unless authorized by contract amendment.

- B. In addition to the allowable incurred costs, LOCAL AGENCY will pay CONSULTANT a fixed fee of \$213,133.71. The fixed fee is nonadjustable for the term of the contract, except in the event of a significant change in the scope of work and such adjustment is made by contract amendment.
- C. Reimbursement for transportation and subsistence costs shall not exceed the rates specified in the approved Cost Proposal.
- D. When milestone cost estimates are included in the approved Cost Proposal, CONSULTANT shall obtain prior written approval for a revised milestone cost estimate from the Contract Administrator before exceeding such cost estimate.
- E. Progress payments will be made monthly in arrears based on services provided and allowable incurred costs. A pro rata portion of CONSULTANT's fixed fee will be included in the monthly progress payments. If CONSULTANT fails to submit the required deliverable items according to the schedule set forth in the Statement of Work, LOCAL AGENCY shall have the right to delay payment or terminate this Contract in accordance with the provisions of Article VI Termination.
- F. No payment will be made prior to approval of any work, nor for any work performed prior to approval of this contract.
- G. CONSULTANT will be reimbursed, as promptly as fiscal procedures will permit upon receipt by LOCAL AGENCY's Contract Administrator of itemized invoices in triplicate. Invoices shall be submitted no later than 45 calendar days after the performance of work for which CONSULTANT is billing. Invoices shall detail the work performed on each milestone and each project as applicable. Invoices shall follow the format stipulated for the approved Cost Proposal and shall reference this contract number and project title. Final invoice must contain the final cost and all credits due LOCAL AGENCY including any equipment purchased under the provisions of Article XI Equipment Purchase of this contract. The final invoice should be submitted within 60 calendar days after completion of CONSULTANT's work. Invoices shall be mailed to LOCAL AGENCY's Contract Administrator at the following address:

### TLMA Account Payable

### Cesar Tolentino PE, County Project Manager PO BOX 1605 Riverside, CA 92502

- H. The total amount payable by LOCAL AGENCY including the fixed fee shall not exceed \$4,695,009.
- I. Salary increases will be reimbursable if the new salary is within the salary range identified in the approved Cost Proposal and is approved by LOCAL AGENCY's Contract Administrator.
- J For personnel subject to prevailing wage rates as described in the California Labor Code, all salary increases, which are the direct result of changes in the prevailing wage rates are reimbursable.

### ARTICLE III TERMINATION (Verbatim)

- A. LOCAL AGENCY reserves the right to terminate this contract upon thirty (30) calendar days written notice to CONSULTANT with the reasons for termination stated in the notice.
- B. LOCAL AGENCY may terminate this contract with CONSULTANT should CONSULTANT fail to perform the covenants herein contained at the time and in the manner herein provided. In the event of such termination, LOCAL AGENCY may proceed with the work in any manner deemed proper by LOCAL AGENCY. If LOCAL AGENCY terminates this contract with CONSULTANT, LOCAL AGENCY shall pay CONSULTANT the sum due to CONSULTANT under this contract prior to termination, unless the cost of completion to LOCAL AGENCY exceeds the funds remaining in the contract. In which case the overage shall be deducted from any sum due CONSULTANT under this contract and the balance, if any, shall be paid to CONSULTANT upon demand.
- C. The maximum amount for which the LOCAL AGENCY shall be liable if this contract is terminated is \$4,695,009 dollars.

### ARTICLE IV COST PRINCIPLES AND ADMINISTRATIVE REQUIREMENTS (Verbatim)

- A. CONSULTANT agrees that the Contract Cost Principles and Procedures, 48 CFR, Federal Acquisition Regulations System, Chapter 1, Part 31.000 et seq., shall be used to determine the cost allowability of individual items.
- B. CONSULTANT also agrees to comply with federal procedures in accordance with 49 CFR, Part 18, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments.
- C. Any costs for which payment has been made to CONSULTANT that are determined by subsequent audit to be unallowable under 49 CFR, Part 18 and 48 CFR, Federal Acquisition Regulations System, Chapter 1, Part 31.000 et seq., are subject to repayment by CONSULTANT to LOCAL AGENCY.

### ARTICLE V RETENTION OF RECORDS/AUDIT (Verbatim)

For the purpose of determining compliance with Public Contract Code 10115, et seq. and Title 21, California Code of Regulations, Chapter 21, Section 2500 et seq., when applicable and other matters connected with the performance of the contract pursuant to Government Code 8546.7; CONSULTANT, subconsultants, and LOCAL AGENCY shall maintain and make available for inspection all books, documents, papers, accounting records, and other evidence pertaining to the performance of the contract, including but not limited to, the costs of administering the contract. All parties shall make such materials available at their respective offices at all reasonable times during the contract period and for three years from the date of final payment under the contract. The state, State Auditor, LOCAL AGENCY, FHWA, or any duly authorized representative of the Federal Government shall have access to any books, records, and documents of CONSULTANT and it's certified public accountants (CPA) work papers that are pertinent to the contract and indirect cost rates (ICR) for audit, examinations, excerpts, and transactions, and copies thereof shall be furnished if requested.

### ARTICLE VI AUDIT REVIEW PROCEDURES (Verbatim)

- A. Any dispute concerning a question of fact arising under an interim or post audit of this contract that is not disposed of by agreement, shall be reviewed by LOCAL AGENCY'S Chief Financial Officer.
- B. Not later than 30 days after issuance of the final audit report, CONSULTANT may request a review by LOCAL AGENCY'S Chief Financial Officer of unresolved audit issues. The request for review will be submitted in writing.
- C. Neither the pendency of a dispute nor its consideration by LOCAL AGENCY will excuse CONSULTANT from full and timely performance, in accordance with the terms of this contract.
- D. CONSULTANT and subconsultant contracts, including cost proposals and ICR, are subject to audits or reviews such as, but not limited to, a contract audit, an incurred cost audit, an ICR Audit, or a CPA ICR audit work paper review. If selected for audit or review, the contract, cost proposal and ICR and related work papers, if applicable, will be reviewed to verify compliance with 48 CFR, Part 31 and other related laws and regulations. In the instances of a CPA ICR audit work paper review it is CONSULTANT's responsibility to ensure federal, state, or local government officials are allowed full access to the CPA's work papers including making copies as necessary. The contract, cost proposal, and ICR shall be adjusted by CONSULTANT and approved by LOCAL AGENCY contract manager to conform to the audit or review recommendations. CONSULTANT agrees that individual terms of costs identified in the audit report shall be incorporated into the contract by this reference if directed by LOCAL AGENCY at its sole discretion. Refusal by CONSULTANT to incorporate audit or review recommendations, or to ensure that the federal, state or local governments have access to CPA work papers, will be considered a breach of contract terms and cause for termination of the contract and disallowance of prior reimbursed costs.

### ARTICLE VII SUBCONTRACTING (Verbatim)

A. Nothing contained in this contract or otherwise, shall create any contractual relation between LOCAL AGENCY and any subconsultant(s), and no subcontract shall relieve CONSULTANT of its responsibilities

- and obligations hereunder. CONSULTANT agrees to be as fully responsible to LOCAL AGENCY for the acts and omissions of its subconsultant(s) and of persons either directly or indirectly employed by any of them as it is for the acts and omissions of persons directly employed by CONSULTANT. CONSULTANT's obligation to pay its subconsultant(s) is an independent obligation from LOCAL AGENCY'S obligation to make payments to the CONSULTANT.
- B. CONSULTANT shall perform the work contemplated with resources available within its own organization and no portion of the work pertinent to this contract shall be subcontracted without written authorization by LOCAL AGENCY's Contract Administrator, except that, which is expressly identified in the approved Cost Proposal.
- C. CONSULTANT shall pay its subconsultants within ten (10) calendar days from receipt of each payment made to CONSULTANT by LOCAL AGENCY.
- D. All subcontracts entered into as a result of this contract shall contain all the provisions stipulated in this contract to be applicable to subconsultants.
- E. Any substitution of subconsultant(s) must be approved in writing by LOCAL AGENCY's Contract Administrator prior to the start of work by the subconsultant(s).

### **ARTICLE VIII EQUIPMENT PURCHASE (Verbatim)**

- A. Prior authorization in writing, by LOCAL AGENCY's Contract Administrator shall be required before CONSULTANT enters into any unbudgeted purchase order, or subcontract exceeding \$5,000 for supplies, equipment, or CONSULTANT services. CONSULTANT shall provide an evaluation of the necessity or desirability of incurring such costs.
- B. For purchase of any item, service or consulting work not covered in CONSULTANT's Cost Proposal and exceeding \$5,000 prior authorization by LOCAL AGENCY's Contract Administrator; three competitive quotations must be submitted with the request, or the absence of bidding must be adequately justified.
- C. Any equipment purchased as a result of this contract is subject to the following: "CONSULTANT shall maintain an inventory of all nonexpendable property. Nonexpendable property is defined as having a useful life of at least two years and an acquisition cost of \$5,000 or more. If the purchased equipment needs replacement and is sold or traded in, LOCAL AGENCY shall receive a proper refund or credit at the conclusion of the contract, or if the contract is terminated, CONSULTANT may either keep the equipment and credit LOCAL AGENCY in an amount equal to its fair market value, or sell such equipment at the best price obtainable at a public or private sale, in accordance with established LOCAL AGENCY procedures; and credit LOCAL AGENCY in an amount equal to the sales price. If CONSULTANT elects to keep the equipment, fair market value shall be determined at CONSULTANT's expense, on the basis of a competent independent appraisal of such equipment. Appraisals shall be obtained from an appraiser mutually agreeable to by LOCAL AGENCY and CONSULTANT, if it is determined to sell the equipment, the terms and conditions of such sale must be approved in advance by LOCAL AGENCY." 49 CFR, Part 18 requires a credit to Federal funds when participating equipment with a fair market value greater than \$5,000 is credited to the project.

### ARTICLE IX STATE PREVAILING WAGE RATES (Verbatim)

- A. CONSULTANT shall comply with the State of California's General Prevailing Wage Rate requirements in accordance with California Labor Code, Section 1770, and all Federal, State, and local laws and ordinances applicable to the work.
- B. Any subcontract entered into as a result of this contract, if for more than \$25,000 for public works construction or more than \$15,000 for the alteration, demolition, repair, or maintenance of public works, shall contain all of the provisions of this Article, unless the awarding agency has an approved labor compliance program by the Director of Industrial Relations.

C. When prevailing wages apply to the services described in the scope of work, transportation and subsistence costs shall be reimbursed at the minimum rates set by the Department of Industrial Relations (DIR) as outlined in the applicable Prevailing Wage Determination. See <a href="http://www.dir.ca.gov">http://www.dir.ca.gov</a>.

### ARTICLE X CONFLICT OF INTEREST (Verbatim)

- A. CONSULTANT shall disclose any financial, business, or other relationship with LOCAL AGENCY that may have an impact upon the outcome of this contract, or any ensuing LOCAL AGENCY construction project. CONSULTANT shall also list current clients who may have a financial interest in the outcome of this contract, or any ensuing LOCAL AGENCY construction project, which will follow.
- B. CONSULTANT hereby certifies that it does not now have, nor shall it acquire any financial or business interest that would conflict with the performance of services under this contract.
- C. CONSULTANT hereby certifies that neither CONSULTANT, nor any firm affiliated with CONSULTANT will bid on any construction contract, or on any contract to provide construction inspection for any construction project resulting from this contract. An affiliated firm is one, which is subject to the control of the same persons through joint-ownership, or otherwise.
- D. Except for subconsultants whose services are limited to providing surveying or materials testing information, no subconsultant who has provided design services in connection with this contract shall be eligible to bid on any construction contract, or on any contract to provide construction inspection for any construction project resulting from this contract.

### .ARTICLE XI REBATES, KICKBACKS OR OTHER UNLAWFUL CONSIDERATION (Verbatim)

CONSULTANT warrants that this contract was not obtained or secured through rebates kickbacks or other unlawful consideration, either promised or paid to any LOCAL AGENCY employee. For breach or violation of this warranty, LOCAL AGENCY shall have the right in its discretion; to terminate the contract without liability; to pay only for the value of the work actually performed; or to deduct from the contract price; or otherwise recover the full amount of such rebate, kickback or other unlawful consideration.

### ARTICLE XII PROHIBITION OF EXPENDING LOCAL AGENCY STATE OR FEDERAL FUNDS FOR LOBBYING (Verbatim)

- A. CONSULTANT certifies to the best of his or her knowledge and belief that:
  - 1. No state, federal or local agency appropriated funds have been paid, or will be paid by-or-on behalf of CONSULTANT to any person for influencing or attempting to influence an officer or employee of any state or federal agency; a Member of the State Legislature or United States Congress; an officer or employee of the Legislature or Congress; or any employee of a Member of the Legislature or Congress, in connection with the awarding of any state or federal contract; the making of any state or federal grant; the making of any state or federal loan; the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any state or federal contract, grant, loan, or cooperative agreement.
  - 2. If any funds other than federal appropriated funds have been paid, or will be paid to any person for influencing or attempting to influence an officer or employee of any federal agency; a Member of Congress; an officer or employee of Congress, or an employee of a Member of Congress; in connection with this federal contract, grant, loan, or cooperative agreement; CONSULTANT shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- B. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

C. CONSULTANT also agrees by signing this document that he or she shall require that the language of this certification be included in all lower-tier subcontracts, which exceed \$100,000 and that all such sub recipients shall certify and disclose accordingly.

### ARTICLE XIII STATEMENT OF COMPLIANCE

- A. CONSULTANT's signature affixed herein, and dated, shall constitute a certification under penalty of perjury under the laws of the State of California that CONSULTANT has, unless exempt, complied with, the nondiscrimination program requirements of Government Code Section 12990 and Title 2, California Administrative Code, Section 8103.
- B. During the performance of this Contract, Consultant and its subconsultants shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (e.g., cancer), age (over 40), marital status, and denial of family care leave. Consultant and subconsultants shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. Consultant and subconsultants shall comply with the provisions of the Fair Employment and Housing Act (Gov. Code §12990 (a-f) et seq.) and the 5applicable regulations promulgated there under (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 (a-f), set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Contract by reference and made a part hereof as if set forth in full. Consultant and its subconsultants shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other Agreement.
- C. The Consultant shall comply with regulations relative to Title VI (nondiscrimination in federally-assisted programs of the Department of Transportation Title 49 Code of Federal Regulations, Part 21 Effectuation of Title VI of the 1964 Civil Rights Act). Title VI provides that the recipients of federal assistance will implement and maintain a policy of nondiscrimination in which no person in the state of California shall, on the basis of race, color, national origin, religion, sex, age, disability, be excluded from participation in, denied the benefits of or subject to discrimination under any program or activity by the recipients of federal assistance or their assignees and successors in interest.
- D. The Consultant, with regard to the work performed by it during the Agreement shall act in accordance with Title VI. Specifically, the Consultant shall not discriminate on the basis of race, color, national origin, religion, sex, age, or disability in the selection and retention of Subconsultants, including procurement of materials and leases of equipment. The Consultant shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the U.S. DOT's Regulations, including employment practices when the Agreement covers a program whose goal is employment.

### ARTICLE XIV DEBARMENT AND SUSPENSION CERTIFICATION

- A. CONSULTANT's signature affixed herein, shall constitute a certification under penalty of perjury under the laws of the State of California, that CONSULTANT has complied with Title 2 CFR, Part 180, "OMB Guidelines to Agencies on Government wide Debarment and Suspension (nonprocurement)", which certifies that he/she or any person associated therewith in the capacity of owner, partner, director, officer, or manager, is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded, or determined ineligible by any federal agency within the past three (3) years; does not have a proposed debarment pending; and has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three (3) years. Any exceptions to this certification must be disclosed to LOCAL AGENCY.
- B. Exceptions will not necessarily result in denial of recommendation for award, but will be considered in determining CONSULTANT responsibility. Disclosures must indicate to whom exceptions apply, initiating agency, and dates of action.

C. Exceptions to the Federal Government Excluded Parties List System maintained by the General Services Administration are to be determined by the Federal highway Administration.

### ARTICLE XV DISADVANTAGED BUSINESS ENTERPRISES (DBE) PARTICIPATION

- A. This contract is subject to 49 CFR, Part 26 entitled "Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs". Consultants who obtain DBE participation on this contract will assist Caltrans in meeting its federally mandated statewide overall DBE goal.
- B. The goal for DBE participation for this contract is 6.5 %. Participation by DBE consultant or subconsultants shall be in accordance with information contained in the Consultant Proposal DBE Commitment (Exhibit 10-O1), or in the Consultant Contract DBE Information (Exhibit 10-O2) attached hereto and incorporated as part of the Contract. If a DBE subconsultant is unable to perform, CONSULTANT must make a good faith effort to replace him/her with another DBE subconsultant, if the goal is not otherwise met.
- C. DBEs and other small businesses, as defined in 49 CFR, Part 26 are encouraged to participate in the performance of contracts financed in whole or in part with federal funds. CONSULTANT or subconsultant shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. CONSULTANT shall carry out applicable requirements of 49 CFR, Part 26 in the award and administration of US DOT-assisted agreements. Failure by CONSULTANT to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as LOCAL AGENCY deems appropriate.
- D. Any subcontract entered into as a result of this contract shall contain all of the provisions of this section.
- E. A DBE firm may be terminated only with prior written approval from LOCAL AGENCY and only for the reasons specified in 49 CFR 26.53(f). Prior to requesting LOCAL AGENCY consent for the termination, CONSULTANT must meet the procedural requirements specified in 49 CFR 26.53(f).
- F. A DBE performs a Commercially Useful Function (CUF) when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a CUF, the DBE must also be responsible with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a CUF, evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the, contract is commensurate with the work it is actually performing, and other relevant factors.
- G. A DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of DBE participation. In determining whether a DBE is such an extra participant, examine similar transactions, particularly those in which DBEs do not participate.
- H. If a DBE does not perform or exercise responsibility for at least thirty percent (30%) of the total cost of its contract with its own work force, or the DBE subcontracts a greater portion of the work of the contract than would be expected on the basis of normal industry practice for the type of work involved, it will be presumed that it is not performing a CUF.
- I. CONSULTANT shall maintain records of materials purchased or supplied from all subcontracts entered into with certified DBEs. The records shall show the name and business address of each DBE or vendor and the total dollar amount actually paid each DBE or vendor, regardless of tier. The records shall show the date of payment and the total dollar figure paid to all firms. DBE prime consultants shall also show the date of work performed by their own forces along with the corresponding dollar value of the work.
- J. Upon completion of the Contract, a summary of these records shall be prepared and submitted on the form entitled, "Final Report-Utilization of Disadvantaged Business Enterprise (DBE), First-Tier Subconsultants" CEM-2402F [Exhibit 17-F, of the LAPM], certified correct by CONSULTANT or CONSULTANT's authorized representative and shall be furnished to the Contract Administrator with the final invoice. Failure to provide the summary of DBE payments with the final invoice will result in twenty-five percent (25%) of the dollar value of the invoice being withheld from payment until the form is submitted. The amount will be

- returned to CONSULTANT when a satisfactory "Final Report-Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subconsultants" is submitted to the Contract Administrator.
- K. If a DBE subconsultant is decertified during the life of the contract, the decertified subconsultant shall notify CONSULTANT in writing with the date of decertification. If a subconsultant becomes a certified DBE during the life of the Contract, the subconsultant shall notify CONSULTANT in writing with the date of certification. Any changes should be reported to LOCAL AGENCY's Contract Administrator within 30 days.

### EXHIBIT 10-O2 CONSULTANT CONTRACT DBE COMMITMENT

1. Local Agency: County of Riverside		_ 2. Contract DBE Goal: 2%	
3. Project Description: Replacement of the	Mission Boulevard Brid	lge over Santa Ana River (Br No. 56C-007	1)
4. Project Location: Riverside, CA			
5. Consultant's Name: Kleinfelder	6. Prime Certifie	ed DBE:  7. Total Contract Award Amount: \$	4,695,009
	\$2,237,048	9. Total Number of <u>ALL</u> Subconsultants: 5	
10. Description of Work, Service, or Materials Supplied	11. DBE Certification Number	12. DBE Contact Information	13. DBE Dollar Amount
Landscape Architecture	4570	Tatsumi and Partners 49 Discovery, Suite 120, Irvine, California, 92618 949-453-9901	\$133,002
Geotechnical	21160	Diaz Yourman 1616 East 17th Street Santa Ana, CA 92705 714-245-2920, ext. 232	\$171,834
· · · · · · · · · · · · · · · · · · ·			
Local Agency to Complete thi	s Section		\$\$304,836
20. Local Agency Contract (951) 955-	1520	14. TOTAL CLAIMED DBE PARTICIPATION	
21. Federal-Aid Project Number: BRLSZ-5956	6(192)	14. TOTAL CLAIMED DBL PARTION ATTON	6.5%
22. Contract Execution 9/24/2019			0.5 %
Local Agency certifies that all DBE certifications are this form is complete and accurate.	re valid and information on	IMPORTANT: Identify all DBE firms being claimed regardless of tier. Written confirmation of each list required.	d for credit, ed DBE is
Clark	8/19/2019	8/19/2	019
23. Local Agency Representative's Signature	24. Date	75. Preparer's Signature 16. Date	
Cesar Tolentino	951-955-1520		02-9275
25. Local Agency Representative's Name	26. Phone	17. Preparer's Name 18. Phor	ie
Engineering Project Manager		Senior Program Manager  19. Preparer's Title	
27. Local Agency Representative's Title		19. Preparer's Title	

DISTRIBUTION: 1. Original – Local Agency
2. Copy – Caltrans District Local Assistance Engineer (DLAE). Failure to submit to DLAE within 30 days of contract execution may result in de-obligation of federal funds on contract.

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.