



## TOWN OF APPLE VALLEY TOWN COUNCIL STAFF REPORT

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**To:** Honorable Mayor and Town Council **Date:** January 22, 2019  
**From:** Brad Miller, Town Engineer **Item No:** 5  
Engineering Department  
**Subject:** SR-18/APPLE VALLEY ROAD INTERSECTION REALIGNMENT  
PROJECT CONTRACT AMENDMENT NO. 3.

**T.M. Approval:** \_\_\_\_\_ **Budgeted Item:**  Yes  No  N/A

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### RECOMMENDED ACTION:

- A Approve Amendment No. 3 to the November, 2008 agreement between the Town of Apple Valley and Dokken Engineering for engineering services on the State Route 18/Apple Valley Road Intersection Realignment Project for an amount not-to-exceed \$491,366.
- B Approve Budget Amendment dated December 11, 2018 allocating additional Measure I funds to the project for Fiscal Year 2018-2019.

### SUMMARY:

On November 18, 2008, the Town of Apple Valley entered an agreement with Dokken Engineering for Environmental and Design Services on the State Route 18/Apple Valley Road Intersection Realignment/Improvement Project for an amount not-to-exceed \$417,000.00. On June 10, 2012, the Town Council approved Amendment No. 1 in the amount of \$275,040 to address out of scope work necessary to meet changes in Caltrans requirements, update existing conditions within the project area and provide expanded services related to right-of-way appraisal/acquisition and landscape architecture tasks. On May 13, 2014, the Town Council approved Amendment No. 2 in the amount of \$169,680 to address additional out-of-scope work at later stages of the project. Since then, 95% plans were submitted to Caltrans and comments were received. The project was put on hold in mid 2015 due to the lack of construction funds. With the Town's recent success in being awarded a \$4,450,000 SB1 LPP grant for construction, the project can once again move forward.

Amendment #3 addresses the costs associated with restarting the project, complying with new Caltrans requirements, completing PS&E and obtaining a Caltrans Encroachment Permit. Dokken Engineering proposes to provide these additional services for a not-to-exceed amount of \$491,366. The addition of this amendment brings Dokken Engineering's total contract to \$1,353,086 for a combination of Project Approval & Environmental Documentation (PA&ED), Design (PS&E), Right of Way Acquisition, Permitting and project management services. The fee is competitive for a very complex project valued at approximately \$8,000,000 that includes the State Highway, frontage roads, utility conflicts, and property transactions involving the State of California, Caltrans and adjacent businesses. This represents less than 17% of the estimated construction costs and it is lower than the industry standards of 20 to 25%.

A summary showing the additional work required to complete the project, and estimated cost for each task, is included as Attachment A (SR-18/ Apple Valley Road Intersection Improvement Project Contract Amendment No. 3).

**FINANCIAL IMPACT:**

The Budget amendment dated December 11, 2018 will increase FY 2018-2019 Measure I appropriation by \$150,000.

**ATTACHMENTS:**

**Vacinity Map**  
**Attachment A – Additional Work Required**

# Vicinity Map

Not to Scale



## Attachment A



**DOKKEN ENGINEERING**  
*Transportation Solutions from Concept to Construction*

November 29, 2018

Richard Pedersen  
Deputy Town Engineer  
TOWN OF APPLE VALLEY  
14955 Dale Evans Parkway  
Apple Valley, CA 92307

**RE: SR-18/Apple Valley Road Intersection Improvement Project  
Contract Amendment No. 3**

Dear Mr. Pedersen,

The purpose of this letter is to request Amendment No. 3 to the November 2008 Agreement between the Town of Apple Valley and Dokken Engineering for engineering, environmental and right of way services for the State Route 18/Apple Valley Road Intersection Improvement Project. With the Town's recent success in being awarded an SB 1 LPP grant for construction, the project can once again move forward. This amendment is requested to address the costs associated with restarting the project, complying with new requirements, completing PS&E and obtaining a Caltrans Encroachment Permit.

Dokken Engineering proposes to provide these additional services for a not-to-exceed added contract amount of \$491,366. The addition of this amendment brings Dokken Engineering's total contract amount to \$1,353,086. This remains a very competitive fee of less 17% of the construction value for a combination of PA&ED, PS&E, Right of Way and Permitting for a very complex project valued at over \$8,000,000 in construction costs. It is located on a State Highway and heavily travelled local road, with very close proximity to frontage roads and driveways. Construction staging is extensive. There are numerous utilities requiring coordination and some relocations. Acquisitions from adjacent property owners was necessary and included a lengthy acquisition from and coordination with the State of California General Services (not Caltrans) for work on the Armory site.

Following is a description of the services necessary to update the design, revalidate the CEQA environmental document, complete PS&E and obtain a Caltrans encroachment permit. Only tasks with activities are listed below. Bidding and construction support service are not included but will need to be considered once construction funds are allocated. It is also proposed to balance out the various old tasks and start fresh with new task budgets that track with the new effort proposed below. August 31, 2018 has been used as the break between old and new efforts and is coincident with the last invoice date sent to the Town.

A detailed breakdown of effort for each task is included as Attachments A: Amendment No. 3 - Task and Cost Proposal Summary. An overall Contract Cost Summary is included as Attachment B.

**CONTRACT TASK**

**BUDGET**

**TASK 1.0 PROJECT MANAGEMENT/CALTRANS COORDINATION**

**\$56,200**

The current contract, as previously amended, anticipated this task extending through March of 2015. Based on the current schedule, which anticipates certifying the PS&E and Right of



**CONTRACT TASK**

**BUDGET**

Way and obtaining the Caltrans Encroachment Permit by December of 2019, new services under this task will be needed for 16 months. Services include internal coordination for implementation of the work plan between the various disciplines (including sub-consultants) and coordination with both the Town and Caltrans. Once the project moves into construction, our efforts would be handled under the Task 4 – Bidding and Construction Support, which is not included at this time, but can be reconsidered once construction funding is secured.

**TASK 2 – PRELIMINARY ENGINEERING/ENVIRONMENTAL**

**TASK 2.1 SURVEY AND BASE MAPPING**

**\$9,769**

Design level survey is needed for the extended receiving lanes along SR 18 that have been added to the project. The new area is shown in the submittal to Caltrans dated November 21, 2018. David Evans and Associates has been added to the team to provide the survey work.

Horizontal control will utilize existing centerline monumentation of the various streets involved. The City of Apple Valley Bench Datum will be used for vertical control. Horizontal control will be tied into the North American Datum of 1983 (NAD83). GPS will be utilized to extend the horizontal and vertical control components at all of the intersections involved and throughout the project.

Using the established control survey, design level topographic surveys will be performed within the right of way of the project limits extending through the curb returns of the cross streets. Cross-sections will be taken at approximately 50 foot intervals and will include curb and gutter, flowlines, edge of pavement, walks, surface visible and marked utilities, fences, gates, drainage structures, signals, signs, driveways, H/C ramps, cross walks, water mains and sewer manhole locations. Sewer inverts are not included.

**TASK 2.3 HYDRAULICS, STORM WATER AND GEOTECHNICAL REPORTS**

This task includes the work necessary to complete, and gain Caltrans approval, of the various reports needed for the project that are related to drainage, storm water compliance and geotechnical investigations. Planned services are summarized below.

**Drainage Report**

**\$11,046**

Dokken prepared a design level Drainage Report that was finalized in January 2014. At that time, Caltrans had no further comment on the report and it was considered approved. If Caltrans requires that the report be updated to reflect changes to the HDM, Dokken will modify the report in accordance with these changes and submit to Caltrans for review/approval. If not needed, this budget will be held unless approved by the Town PM for other purposes.

**Storm Water Data Report**

**\$13, 257**

Dokken Engineering developed a long-form PS&E-level Storm Water Data Report (SWDR) in accordance with the Caltrans Project Planning and Design Guide (PPDG) in effect in 2014. Since that time, the requirements for SWDRs have changed and the current SWDR will need



**CONTRACT TASK**

**BUDGET**

to be updated to include:

- An updated assessment of the Total Disturbed Soil Area (DSA), New Impervious Surface (NIS) Area, and Post Construction Treatment (PCT) Area.
- An updated Risk Level determination and assessment for Treatment BMPs.
- Updated EDF, SW, DPP, T, and CS checklists.
- Updated BMP cost summary
- Preparation of additional required attachments

Dokken Engineering will prepare the updated SWDR and work with the Caltrans District Storm Water Coordinator to circulate the updated document through the Maintenance, Landscape, Construction, and Storm Water units during review of the 95% plans/specifications. One round of comments will be addressed, and the final document will be submitted for approval. This scope assumes that Rapid Stream Assessment is not applicable to this project.

**\$17,793**

**Water Quality Management Plan**

In April 2016, the Mojave River Watershed Group published the Technical Guidance Document for Water Quality Management Plans to ensure compliance with the Watershed’s Phase 2 MS4 Permit. In accordance with this permit, post construction storm water quality measures are required to be implemented on projects creating or replacing more than 2,500 square feet of impervious surface. As a result, this task assumes that the project will fall under the “Regulated Projects” category and Dokken will prepare a Water Quality Management Plan (WQMP) submittal in accordance with the Town’s standards.

The WQMP will follow the Town’s template and include the following features:

- A description of the project and the major engineering features
- A description of the feasible Site Design Control Measures and justification of measures considered infeasible or not applicable to the project
- A description of the feasible Source Control/Low Impact Development (LID) measures and justification of measures considered infeasible or not applicable to the project
- A description of the feasible Treatment Control Measures and justification of measures considered infeasible or not applicable to the project, as well as supporting calculations.
- A description of the Hydromodification Control Measures and justification of measures considered infeasible or not applicable to the project, as well as supporting calculations.
- Drainage Management Area (DMA) site plans
- Design plans/details for Treatment Control Measures
- California Phase II LID Sizing Tool results
- Operation and Maintenance Plan using the Post Construction Standards Plan template

A draft version of this submittal will be prepared and submitted to the Town for review with the 95% PS&E milestone submittal. Comments will be addressed, and the final WQMP will be



**CONTRACT TASK**

**BUDGET**

submitted for approval with the 100% PS&E milestone submittal.

**NPDES General Construction Permit (SWPPP)**

**\$12,469**

Because the total disturbed area (including staging) is anticipated to exceed 1 acre, a NPDES General Construction Activity Storm Water Permit will be required. To obtain coverage under this permit, Dokken Engineering’s Qualified Stormwater Developer (QSD) will prepare the Storm Water Pollution Prevention Plan (SWPPP) and, at the Town’s discretion, upload this document to the SMARTS system.

Preparation of the SWPPP will involve the following tasks:

- Documenting the existing site conditions and proposed project information, including the total disturbed and percent impervious area of the project site, and preparing a project information exhibit;
- Identifying the sources that could add pollutants to storm water discharges or could result in non-storm water discharges;
- Selecting risk level appropriate Best Management Practices (BMPs) that will control each of the identified pollutants;
- Preparing Water Pollution Control Drawings;
- Identifying the required construction site monitoring efforts and, dependent on risk level, preparing a monitoring and sampling exhibit;
- Integrating appropriate post-construction storm water BMPs;
- Developing a maintenance, inspection and repair program.
- Assembling the required supporting documentation and reporting forms as Attachments/Appendices.

A draft SWPPP will be provided to the Town for review and comment. Upon receipt of Town’s comments, Dokken Engineering will make the necessary modifications to the SWPPP and prepare a final SWPPP for use in obtaining the NPDES permit. It is assumed that all permit fees will be paid directly by the Town. Dokken will provide QSD services through the issuance of the Waste Discharge Identification Number.

**Updated Geotechnical Report Addendum**

**\$10,120**

In December of 2013, Dokken Engineering’s subconsultant, Group Delta, prepared a Geotechnical Design Report. The report was submitted to Caltrans with the 95% PS&E submittal in October of 2014. Caltrans provided comments to the report as part of their overall 95% submittal review comments. Further design work and Caltrans coordination was at this point put on hold while the Armory acquisition efforts continued, and the Town pursued construction funds.

This task now includes Group Delta reviewing and addressing the comments previously raised. Group Delta will prepare an addendum to the report. It will be submitted to Caltrans as part of the new 95% submittal discussed in Task 3.2. below. Group Delta will provide responses to comments and finalize the addendum.



**CONTRACT TASK**

**BUDGET**

**TASK 2.4 PRELIMINARY DESIGN AND RIGHT OF WAY REQUIREMENTS**

**\$33,020**

A 95% submittal was made to Caltrans in October of 2014. It was based on the 2010 Highway Design Manual and the 2010 Standard Plans and Specification. Since that time the HDM was reissued in 2015 and again in 2018 and will need to be complied with to gain Caltrans approval of the design. The 2018 Standard Plans and Specification will also be used for the contract PS&E. This task includes the effort necessary to review the design against the new standards and identify required updates, followed by preparation of revised designs.

The approved Design Exception Fact Sheets will be updated to reference the new Expenditure Authorization (EA) number Caltrans has assigned to the project. Reanalysis and re-review of content is not anticipated. Processing of new Design Decisions is not anticipated or included.

The project layout will be modified to allow 450 ft receiving lanes for the third lanes on SR 18 approaching the intersection and to add a bike through lanes. Dokken will prepare a new project geometric layout and justification memo and submit to Caltrans for review and approval. Dokken will also respond to comments received on the justifications memo.

Dokken will meet with Caltrans at PDT meetings to gain input, hear and share concerns and finalize the project layout. Three meetings are anticipated as part of this task which is typically completed at the 35% design level.

Once the layout is approved by the PDT, Dokken will incorporate the design into a new 95% PS&E submittal as discussed in Task 3.2.

A new Temporary Construction Easement area will be needed to further widen SR 18 to allow the six (6) foot bike through lane at the intersection. The configuration will be determined as part of this task. Refer to Task 3.3 for preparation of right of way documents and acquisition services.

**TASK 2.5 TECHNICAL STUDIES AND ENVIRONMENTAL DOCUMENT**

**\$23,288**

This task includes the efforts necessary to revalidate the CEQA IS/MND. Since no federal funds are programmed on the project, NEPA compliance is therefore not included.

The previously prepared Initial Study with Mitigated Negative Declaration (IS/MND) was approved in October 2012. Given the amount of time that has passed, it is necessary to confirm there are no new impacts, either because of changed environmental conditions, minor changes that have occurred in the project as it advanced through final design, and to analyze and document potential impacts from adding longer receiving lanes for the third through lanes approaching Apple Valley Road on SR 18. A CEQA Revalidation will be prepared to document these changes. Supporting technical studies will be updated relative to the changes in the project description and project area and each will be evaluated to determine if any of the proposed changes would result in new or increased environmental impacts. The level of update is anticipated to be a simple revalidation memo with no substantial changes in the environmental impacts or avoidance, minimization, or mitigation measures.

Following is a description of how each of the environmental technical studies will be





**CONTRACT TASK**

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updated, what additional research and consultation efforts with outside agencies may be required, and what level of written documentation will be used to provide a complete environmental administrative record of the revalidation process.

**Supplemental Traffic Study**

Dokken Engineering's subconsultant, David Evans and Associates (DEA) will prepare a Supplemental Traffic Study Report for the project. The analysis in the traffic report will include future year 2040 or 2045 conditions. The traffic report will include the analysis of the intersection of State Route and Apple Valley Road based on the approved Traffic Report, previously prepared for the project by Urban Crossroads. Work under this task is to conduct the am and pm peak hour traffic analysis based on Year 2040 or 2045 Traffic Model volumes. Not included is conducting any traffic counts or analysis of existing traffic conditions. The supplemental report will be adequate for submittal to Caltrans. The Traffic Report will be prepared in accordance with the Caltrans guidelines. Work included in this task is the submittal of the traffic report to Caltrans for review, and responses to one round of comments.

**Air Quality Study (July 2011)**

The proposed changes to the project would have negligible changes to project level or regional emissions. The project would continue to be consistent with the FTIP and RTP listings and would be consistent with the Air Quality Conformity Analysis Determination. This work plan assumes that the SCAG Transportation Working Group determination that SR-18/Apple Valley Road Realignment Project is "Not a Project of Air Quality Concern" remains valid and additional coordination with the SCAG will not be needed. Dokken Engineering will prepare a short memo which includes the project description, confirmation that the project remains consistent with the FTIP and RTP listings, discussion of the updated traffic analysis, and how no new or increased air quality impacts would occur.

**Revised Natural Environment Study Minimal Impacts (April 2010)**

The design changes in the project are not expected to result in any changes to biological resources in the area. Dokken Engineering will obtain an updated record search to determine if any new listed species are present in the area that were not addressed in the 2010 NESMI. An updated biological survey of the project area will be required by Caltrans and a Dokken biologist will perform this survey. A NESMI Addendum will be prepared to document the changes to the project design/description, any new resources and/or impacts to biological resources, and additional avoidance and/or minimization measures if necessary.

**Cultural Resources**

A Dokken Engineering archaeologist will coordinate with Gary Jones to update the Screened Undertaking Memo for the project. Although some changes to the Area of Potential Effect are proposed, these new areas are previously developed (roadways) and the majority of the work that would occur in these areas is temporary traffic striping on existing pavements during construction. No new impacts to cultural resources are expected. This work plan assumes that no updated Native American Consultation or cultural resources records search are necessary to update the Screened Undertaking previously prepared for the project.



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**Hazardous Waste Reports (April 2010)**

To identify any new or recently identified potentially hazardous materials, Dokken Engineering will obtain an updated EDR Records Search of the project area and perform an updated pedestrian survey of the project area. An Initial Site Assessment Update Memorandum will be prepared to document the updated records search, and to provide any additional testing or remediation recommendations if potential hazardous materials or past activities related to hazardous materials are identified that were not previously discussed in the April 2010 ISA. If hazardous materials or past hazardous material activities are identified, work plans and investigations will also occur.

**CEQA Revalidation Form**

Dokken Engineering will prepare for Caltrans a draft CEQA Revalidation Form which includes the updated project description, changes in the environmental setting, changes in the environmental circumstances (none expected), changes to environmental impacts of the project, and changes to the avoidance, minimization, and/or mitigation measures since the October 2012 Final IS/MND was approved. A summary of the content of all the updated environmental technical studies will be included in the revalidation form and a revised Environmental Commitment Record will be provided as an attachment.

**TASK 2.6 CALTRANS PERMIT APPLICATION AND APPROVAL PROCESS**

**\$9,496**

The project was suspended in December 2014 shortly after receiving comments from Caltrans on the 95% submittal. The Town and Dokken have recently re-engaged Caltrans and they have agreed to process the project through streamlined oversight versus full oversight. This does not change any of the requirements but does allow some concurrent reviews and focuses Caltrans comments on the State highway portion of the project.

This task will allow preparation of the encroachment permit application and Dokken will submit it with the various related design reports, check lists, and certifications. Due to the type of State funding, a cooperative agreement for construction will also be required. The Town is acting as lead on this activity. Dokken will provide costs for use in the funding table and informal consultation with the Town if asked.

**TASK 3 - FINAL ENGINEERING**

**TASK 3.2 95% PLANS, SPECIFICATIONS AND ESTIMATE**

**\$149,626**

Once the PDT approves the updated geometrics discussed in Task 2.4- Preliminary Engineering, Dokken will update the 95% PS&E to reflect the modified design.

At the time of Amendment 2, the plan set was estimated at 80 sheets, and currently sits at 115 sheets, representing an increase over what was anticipated. Dokken did however complete and submit the 95% plans and received comments from Caltrans. At that time the project design was placed on hold.

The new effort needed to update and resubmit the 95% PS&E include:



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**BUDGET**

- Reviewing prior comments and updating PS&E as appropriate
- Detailing the armory parcel design to coincide with the final right of way agreement
- Adding sidewalk along Wika Road between Apple Valley Road and the commercial driveway to the west as requested by the Town; making related adjustments to the drainage feature and landscape area;
- Adding and adjusting sheets (layouts, signing, striping, details) to show the extended receiving lanes and tapers. This alone will add approximately 12 new sheets to the plan set.
- Adjusting sheets to allow the through bike lanes on both southbound Apple Valley Road and eastbound SR 18.
- Updating the wall designs to comply with the recently adopted Manual for Assessing Safety Hardware (MASH) the affects the barrier shapes and width
- Re-detailing the ADA ramps to comply with new standards and Caltrans detailing requirements
- Adjusting striping on northbound Apple Valley Road to reduce the turn lane width and provide a wider outside shoulder.
- Modifying the signal plans to accommodate changes in lane layout
- Checking all sheets for consistency given the various changes
- Updating landscape plans as necessary to accommodate changes. David Evans and Associates has also been added to the team to do this work. It is focused on the area around the Alaska Federal Credit Union and the drainage feature that is being installed in what is now Wika Road. Both areas are being disturb by the project such that existing landscaping and irrigation requires repair or replacement. New landscaping is not included in the future entry feature area in the north east quadrant of the intersection.

**TASK 3.3 RIGHT OF WAY EXHIBIT MAP & PLATS/LEGAL DESCRIPTIONS**

**\$10,606**

Town owned lands will be transferred to the State of California which will require the generation of legal descriptions and plat maps. Five parcels are affected, requiring five sets of plats and legal descriptions. In addition, one TCE will require modification to accommodate a change in walkway grade. It is not anticipated the other TCE's will change in shape and thus the existing plats/legals should not require changes.

This item includes the research necessary to write the descriptions, and to create the documents, submit them to the Town and Caltrans for review, and responding to comments.

**TASK 3.4 APPRAISAL AND ACQUISITION SERVICES**

**\$34,356**

The four temporary construction easements (TCE's) previously acquired on the four commercial sites adjacent the project have expired. Valuations will need to be prepared to renegotiate the TCE's with property owners. Waiver Valuations in lieu of appraisals will be completed. In person meetings to present revised offers will take place. A Dokken Agent will work with each property owner to obtain the executed documentation. After completion of the negotiations, Dokken will coordination with the Town and title company to record the revised temporary easements. This coordination may include additional documentation and



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**BUDGET**

actions to be taken by the Town as previous temporary easements were recorded. Dokken will draft, coordinate and deliver any actions required to finalize the recording of the revised temporary easements.

**TASK 3.5 UTILITY COORDINATION**

**\$38,800**

Due to the project being inactive for four years, there is a potential for new utilities facilities within the project limits or changes to previously reported facilities. In addition, the new area added to the project for the extended receiving lanes must be researched.

Dokken will reestablish coordination with utility owners. A Dig Alert search for any newly installed utilities will be done. "A Letters" will be prepared for any new companies, and "B Letters" will be sent to known utilities for verification of facilities, including in the new project areas. In the case of new intersecting facilities, additional potholing may be necessary, and a budget has been included as an "Other Direct Expense" for that purpose, if needed.

This task also includes a meeting in the field with utility company representatives if necessary to resolve relocation designs. It is anticipated these meetings would be coordinated to occur in concert with each other and/or meetings with the Town, or project design site visits.

Given the work within franchise right of way, it is not anticipated relocations will be at project expense. As such, relocation agreements are not included.

Longitudinal Encroachment Exceptions are typically required for documenting the existing utilities running longitudinally within Caltrans Right-of-Way. Budget had been included to process such an exception.

This item also included completing Reports of Investigation for each utility and providing to Caltrans for review, comment and for their records. One series of comments and resubmit is anticipated.

**TASK 3.6 100 % BID PACKAGE**

**\$59,529**

Dokken Engineering will prepare 100% PS&E based on comments received from Caltrans and the Town on the 95% submittal. The plans will be checked for accuracy and completeness. If there are questions or concerns related to the comments on the plans, a meeting will be set up with Caltrans reviewers to clarify the comments and resolve outstanding items.

Dokken Engineering will review the Town and Caltrans comments on the draft special provisions and meet with same to discuss any revisions that could have a major impact on construction. The draft special provisions/technical specifications will be updated and revised, and Dokken Engineering will respond to each comment with a written response explaining how the comment was addressed. Upon approval by Caltrans of the PS&E, Dokken will prepare the design certification.

Dokken Engineering will update the quantities from the 95% submittal. Quantities will be updated in the calculations, the estimate and on the quantity plan sheets for changes made between the 95% and 100% Submittals. The quantities will be assembled in a 3-ring binder, organized by traditional pay item for use by the Resident Engineer during construction.



**CONTRACT TASK**

**BUDGET**

The Engineer's Estimate will be updated for changes in items and projected unit prices at the time of bidding.

**TASK 4 – BIDDING AND CONSTRUCTION SUPPORT; AND TASK 5- AS-BUILTS**

**0**

These services are typically funded with construction phase dollars, so this task is not included in this request, but will need to be revisited

<b>Total New Work:</b>	<b>\$495,135</b>
<b>Contract Balance as of August 31, 2018:</b>	<b>\$3,769</b>
<b>NET AMENDMENT NO. 3 REQUEST:</b>	<b>\$491,366</b>

Following is a summary of the current and proposed agreement amounts:

Original Contract Amount	\$ 417,000
Amendment No. 1	\$ 275,040
Amendment No. 2	\$ 169,680
<b>Amendment No. 3</b>	<b><u>\$ 491,366</u></b>
<b>Total Proposed Contract Amount:</b>	<b>\$1,353,086</b>

This represents less than 17% of the \$8,000,000 in estimated construction costs and includes all the PA&ED, PS&E, Right of Way Acquisition and Permitting costs incurred or anticipated since inception of this very complex project. Industry standards would easily be closer to 25%.

Dokken Engineering has enjoyed working with the Town to advance this project and looks forward to getting the project built. If you have any questions, please contact me at (916) 858-0642, or at ldiamond@dokkenengineering.com

Sincerely,

DOKKEN ENGINEERING

Elizabeth Diamond, PE  
 Project Manager

cc. Paula Pereira, Project Manager

Attachments: A: Amendment No. 3 – Task and Cost Proposal Summary  
 B: Contract Cost Summary

1783/052/EBD

**TOWN OF APPLE VALLEY**  
**SR 18/Apple Valley Road Intersection Improvement Project**  
**AMENDMENT NO. 3**  
**ATTACHMENT A: ESTIMATED HOURS AND COST BY TASK**  
**November 29, 2018**

TASK DESCRIPTION	DOKKEN ENGINEERING															SUBCONSULTANTS			GRAND TOTAL	
	QA/QC Engineer \$180	Project Manager \$205	Project Engineer \$145	Senior Engineer \$165	Assoc Engineer \$130	Assist Engineer \$98	RW Manager \$164	RW Agent \$128	Land Surveyor \$150	Senior CAD \$166	Engr Tech \$90	Sen Env \$155	Asso Env Planner \$115	Env Planner \$90	TOTAL HRS	Other Direct Expenses	TOTAL \$\$	David Evans		Group Delta Geotech
<b>1.0 PROJECT MANAGEMENT</b>	-	168	96	-	-	80	-	-	-	-	-	-	-	-	344	-	\$56,200	-	-	\$56,200
1.1 Work Plan Implementation		68	32												100		\$18,580			\$18,580
1.2 Coordination with Caltrans		60	32			40									132		\$20,860			\$20,860
1.3 Coordination with Town		40	32			40									112		\$16,760			\$16,760
<b>2.0 PRELIMINARY ENGINEERING/ENVIRONMENTAL</b>	56	60	102	108	48	356	-	-	12	-	72	32	40	60	946	500	\$119,858	\$11,700	\$8,700	\$140,258
2.1 Survey and Base Mapping		1	4			8			8						21		\$2,769	\$7,000		\$9,769
2.2 Utility Research and Coordination															0		\$0			\$0
2.3 Hydraulic, Storm Water and Geotechnical Reports	48	3	6	108	0	220					72				457		\$55,985	\$0	\$8,700	\$64,685
Drainage Report	12	1	1	24		32					16				66		\$11,046			\$11,046
SWDR	12		1	24		64					8				109		\$13,257			\$13,257
WQMP	12		1	40		78					16				145		\$17,793			\$17,793
SWPPP	8		1	20		48					32				109		\$12,469			\$12,469
Final Geotechnical Report	4	2	2												8		\$1,421	\$8,700		\$10,121
2.4 Preliminary Design and Right-of-Way Requirements	8	40	60		48	80			4						240		\$33,020			\$33,020
2.5 Technical Studies and Environmental Documentation		8	8			16						24	40	60	156	500	\$18,588	\$4,700		\$23,288
2.6 Caltrans Permit Application & Approval Process		8	24			32						8			72		\$9,496			\$9,496
<b>3.0 FINAL ENGINEERING</b>	86	54	232	99	260	827	64	180	24	50	253	-	-	-	2129	\$10,000	\$269,577	\$29,100	-	\$298,677
3.1 65% Plans															0		\$0			\$0
3.2 95% Plans, Specifications, and Estimates	68	30	124	72	160	466			0	38	104				1062		\$130,386	\$25,000		\$155,386
Roadway, Electrical and Landscaping	40	20	120	32	160	260					80				712		\$87,464			\$87,464
Drainage	12	8	4	40		120					24				208		\$24,900			\$24,900
Structures	16	2				84					38				142		\$18,024			\$18,024
3.3 Right-of-Way Exhibit Map & Plats/Legal Descriptions		2	4			32			24		32				94		\$10,606			\$10,606
3.4 Appraisals and Acquisition Services		4					64	180							248		\$34,356			\$34,356
3.5 Utility Coordination		8	40		60	120					20				248	\$10,000	\$38,800			\$38,800
3.6 100% Bid Package	18	10	64	27	40	209				12	97				477		\$55,429	\$4,100		\$59,529
Roadway and Landscaping	8	8	60	4	40	120					80				320		\$36,600			\$36,600
Drainage	8	1	2	23		69					17				118		\$13,662			\$13,662
Structures	4	1	2			20					12				39		\$5,161			\$5,161
<b>TOTAL</b>	<b>142</b>	<b>282</b>	<b>430</b>	<b>207</b>	<b>308</b>	<b>1263</b>	<b>64</b>	<b>180</b>	<b>36</b>	<b>50</b>	<b>325</b>	<b>32</b>	<b>40</b>	<b>60</b>	<b>3,419</b>		<b>\$435,135</b>	<b>\$40,800</b>	<b>\$8,700</b>	<b>\$495,135</b>

**TOWN OF APPLE VALLEY**  
**SR 18/Apple Valley Road Intersection Improvement Project**

**AMENDMENT NO. 3**  
**ATTACHMENT B: CONTRACT COST SUMMARY**  
**November 29, 2018**

	Current Contract Amount	Expended through 8/31/18	Remaining Contract Balance as of 8/31/18	Amendment 3			Proposed Total Contract Amount with Amendment 3	Remaining Balance with Amendment 3	% of Construction Cost*
				Balancing Adjustments	New Request	Net Request			
<b>Project Total:</b>	<b>\$861,720</b>	<b>\$857,951</b>	<b>\$3,769</b>	<b>-\$3,769</b>	<b>\$495,135</b>	<b>\$491,366</b>	<b>\$1,353,086</b>	<b>\$495,135</b>	<b>17%</b>
<b>TASK # TASK DESCRIPTION</b>									
<b>1.0 PROJECT MANAGEMENT</b>	<b>\$96,580</b>	<b>\$95,140</b>	<b>\$1,440</b>	<b>(\$1,440)</b>	<b>\$56,200</b>	<b>\$54,760</b>	<b>\$151,340</b>	<b>56,200</b>	<b>2%</b>
1.1 Work Plan Implementation	35,040	38,433	(3,393)	3,392	18,580	21,972	57,012	18,580	
1.2 Coordination with Caltrans	28,260	14,280	13,980	(13,980)	20,860	6,880	35,140	20,860	
1.3 Coordination with Town	33,280	42,428	(9,148)	9,148	16,760	25,908	59,188	16,761	
<b>2.0 PRELIMINARY ENGINEERING/ENVIRONMENTAL</b>	<b>\$341,870</b>	<b>\$287,625</b>	<b>\$54,245</b>	<b>(\$54,245)</b>	<b>\$140,258</b>	<b>\$86,013</b>	<b>\$427,883</b>	<b>\$140,258</b>	<b>5%</b>
2.1 Survey and Base Mapping	25,830	12,133	13,697	(13,697)	9,769	(3,928)	21,902	9,769	
2.2 Utility Research and Coordination	11,500	11,860	(360)	360	-	360	11,860	-	
2.3 Preliminary Hydraulic and Geotechnical Investigation	79,250	80,723	(1,473)	1,473	64,685	66,158	145,408	64,685	
2.4 Preliminary Design and Right-of-Way Requirements	73,620	79,639	(6,019)	6,019	33,020	39,039	112,659	33,020	
2.5 Technical Studies and Environmental Documentation	101,650	79,570	22,080	(22,080)	23,288	1,208	102,858	23,288	
2.6 Caltrans Permit Application and Approval Process	50,020	23,700	26,320	(26,320)	9,496	(16,824)	33,196	9,496	
<b>3.0 FINAL ENGINEERING</b>	<b>\$423,270</b>	<b>\$475,186</b>	<b>(\$51,916)</b>	<b>\$51,916</b>	<b>\$298,677</b>	<b>\$350,593</b>	<b>\$773,863</b>	<b>\$298,677</b>	<b>10%</b>
3.1 65% Plans	125,320	213,158	(87,838)	87,837	-	87,837	213,157	(1)	
3.2 95% Plans, Specifications, and Estimates	57,380	63,743	(6,363)	6,363	155,386	161,749	219,129	155,387	
3.3 Right-of-Way Exhibit Map and Individual Plats & Legal Description	45,240	34,385	10,855	(10,855)	10,606	(249)	44,991	10,606	
3.4 Appraisals and Acquisition Services	115,430	102,762	12,668	(12,668)	34,356	21,688	137,118	34,356	
3.5 Utility Coordination	53,060	37,419	15,641	(15,641)	38,800	23,159	76,219	38,800	
3.6 100% Bid Package	26,840	23,720	3,120	(3,120)	59,529	56,409	83,249	59,529	

\*Based on Construction Estimate of \$8,000,000