



TOWN OF APPLE VALLEY

TOWN COUNCIL STAFF REPORT

To: Honorable Mayor and Town Council **Date:** July 24, 2012
From: Brad Miller, Town Engineer **Item No:** 4
Subject: YUCCA LOMA BRIDGE CONTRACT AMENDMENT # 8 OF THE
YUCCA LOMA BRIDGE CONTRACT AGREEMENT, IN THE AMOUNT
OF \$422,400.00, FOR ADDITIONAL DESIGN, RIGHT-OF-WAY
SERVICES AND CONSTRUCTION SUPPORT.

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

RECOMMENDED ACTION:

Approve the Yucca Loma Bridge Project Contract Amendment # 8 with Dokken Engineering, the project's design contractor, in the Not-to Exceed amount of \$422,400.00, subject to "Approval as to Form" by the Town Attorney and "Approval as to Content" by the Town Manager.

SUMMARY:

The purpose of Contract Amendment # 8 is to include tasks in association with additional design services related to combining the Yucca Loma Bridge and Yates Road construction document packages, additional efforts related to right-of-way acquisition and the park land conversion process. Also included is construction support related to Yates Road.

Dokken Engineering proposes to provide the additional services for a Not-to-Exceed amount of \$442,400.00. This will bring Dokken Engineering's total contract to \$5,270,400.00. This total contract amount represents 10% of the estimated \$52,000,000.00 construction cost of the associated improvements which span from Apple Valley Road to Park Road and includes all planning, environmental, design, right-of-way and construction support services for the improvements between Apple Valley Road and Park Road (and to Hesperia Road for environmental).

A summary of the estimated effort for each task and phase of work is included in the attached Contract Amendment Request Letter from Dokken Engineering, dated June 18, 2012. This letter also identifies which agency, the Town or the County, is responsible for the cost of each task.

BACKGROUND:

To provide perspective, in 2006, the Federal Regional Transportation Improvement Program (RTIP) allocated \$2,800,000.00 to the Town of Apple Valley, specifically for the environmental studies and structural design of the Yucca Loma Bridge. This money was allocated based on the condition that the Town provided 11.47% (\$321,160.00) in matching funds, for which the Town had set aside and budgeted \$500,000.00, creating a Project Fund Balance of \$3,300,000.00.

The original contract with Dokken Engineering for this project was \$2,850,981.00, and included Final Designs for the Apple Valley jurisdictional areas of the project. The subsequent amendment # 1 expanded the Dokken Engineering contract to include Environmental Studies and Preliminary Engineering for the San Bernardino County and Victorville segments, and an additional Amendment # 2 provided for Supplemental Traffic Analysis relating to the above described expansion of the Project, bringing the Total Contract to \$3,153,682.00. The Town's planned budget for this project was \$3,300,000.00, and provided sufficient funds for the requested initial expansion of the environmental study area. Plus, with other jurisdictions now participating in the project, the 11.47% matching fund requirement is divided among the participating jurisdictions, reducing the Town's overall cost.

In September of 2009, both the County of San Bernardino and the City of Victorville requested proposals from Dokken Engineering to provide Final Design Services for their respective segments of the Project. On September 25, 2009, Dokken Engineering submitted Amendment Request # 3, Part One and Part Two, that included completion of Final Design and Right-of-Way Services for the County of San Bernardino, and expanded Town of Apple Valley segments, (Part One) as well as Final Design Services for the City of Victorville, (Part Two).

While the original RTIP Grant funds, and the Town's 11.47% matching funds, covered the additional \$128,300.00 indicated in the proposal to appropriately amend the Apple Valley component of the contract, the San Bernardino County component required an additional commitment of \$208,600.00 by the County. The County indicated its acceptance of the Dokken Proposal and, on January 12, 2010, the Apple Valley Town Council approved Amendment # 3, (Part one), excluding Part Two.

The Contract Amendment, # 3, added \$336,900.00 to the contract, plus approved a Change Order for the TIGER II Grant Application-Enhancement support services, in the amount of \$6,475, which brought the Dokken Contract Total to \$3,497,057. The Dokken Contract Amendment # 4, in the amount of \$97,815.00, covered construction related work pertaining to the Clearing and Tree Removal activities within the future Bridge alignment, and brought the Dokken Contract to a total amount of \$3,594,872.00.

Dokken Contract Amendment # 5, in the amount of \$256,078.00, further modified the scope of work due to project delivery requirement changes including the need for construction documents for the 17 acre restoration area, expanded Value Analysis services, additional hydraulic analysis

and design related to the regional storm drain facility to be installed in Yucca Loma Road, and delivering the Apple Valley Road to Park Road segment of the project in four separate bid packages instead of two. Contract Amendment # 5 was approved on May 24, 2011 and brought the total contract amount to \$3,850,950.00.

Dokken Contract Amendment # 6 reinstated those tasks previously deferred in Contract Amendment # 5 and provided for additional services related to the acquisition of the State owned parcels. It also included construction support services for the Yucca Loma Bridge and Yucca Loma Road construction contract packages. Contract Amendment # 6, in the amount of \$847,400.00, approved on September 27, 2011, brought the Dokken Contract to a total amount of \$4,698,350.00.

Contract Amendment # 7 included tasks in association with obtaining approval of a Conversion Proposal for State Park lands affected by the proposed Yucca Loma Bridge/Yates Road/Green Tree Blvd. Corridor Project and to revalidate the previous CEQA and NEPA determinations made in the Mitigated Negative Declaration and Finding of No Significant Impact. Contract Amendment # 7, in the amount of \$149,650.00, approved October 11, 2011, brought the current Dokken Engineering Contract to \$4,848,000.00.

Contract Amendment # 8 will bring the total Dokken Engineering Contract to \$5,270,400.00. Based upon the foregoing, staff recommends adoption of the form motion.

FISCAL IMPACT:

There are sufficient funds approved for this amendment in the current project budget.

VICINITY MAP:





June 18, 2012

Mr. Brad Miller
TOWN OF APPLE VALLEY
Engineering Division
14955 Dale Evans Parkway
Apple Valley, CA 92307

RE: Amendment Request #8 to the Yucca Loma Bridge Contract Agreement - Additional Design, Right of Way Services, and Construction Support

Dear Mr. Miller:

The purpose of this letter is to request Contract Amendment #8 to the July 2007 Agreement between the Town of Apple Valley and Dokken Engineering for services on the Yucca Loma Road/Yates Road/Green Tree Boulevard Transportation Improvement Project. Amendment #8 includes additional design services related to combining the Yucca Loma Bridge and Yates Road construction document packages, additional efforts related to right of way acquisition and the park land conversion process. Also included is construction support related to Yates Road.

Dokken Engineering proposes to provide the additional services as outlined below for a Not-to-Exceed amount of \$422,400. This will bring Dokken Engineering's total contract to \$5,270,400. This total contract amount represents only 10% of the estimated \$52,000,000 construction cost of the associated improvements which span from Apple Valley Road to Park Road, and includes all planning, environmental, design, right-of-way and construction support services for the improvements between Apple Valley Road and Park Road (and to Hesperia Road for environmental). At 10% soft costs for the wide range of services provided, we believe Dokken Engineering remains a good value for this large, complex, multiagency project.

A summary showing the estimated effort for each task included in this addendum is included as Attachment A: Amendment #8 - Task and Cost Proposal Summary. An overall Contract Cost Summary has been included as Attachment B. Descriptions of the added services are provided below. In addition, Attachment B identifies which agency, the Town or County, is responsible for the cost of each task.

Description of Additional Scope of Services – Amendment 8:

Following are descriptions of the added scope of services for each task affected by this amendment. The order listed below is consistent with the attached cost proposal and contract summaries.

Phase 0: Project Management

Contract Task

Additional Budget

Task 0.2 Project Management – Phase 2: General Multi-Agency:

Task Total:
\$18,700

The original 2007 contract contained scope for project management for a time period of three years. Amendment 5 and 6 increased the budget in this item to cover additional coordination with the three jurisdictions involved, including material preparation and meetings through an estimated timeframe of January 2013. Given the current schedule for State Land Acquisition, it is anticipated that multi-agency project coordination will continue until July of 2013, at which time the joint project will have fully transitioned to construction. A budget augmentation is requested for this extended time frame.



Phase II: Final Design, Engineering and Permitting

Task Total:

Task 2.1 Final Geotechnical and Hydrology Report:

\$44,500

Yates Road Liquefaction Analysis (\$15,500)

Borings along the toe of Yates Road identified a sand layer that is predicted to liquefy under the design seismic event. As a result, an optional task to perform Cone Penetration Testing and a slope stability and settlement analyses were recommended as part of Amendment 6. At that time, the County was planning to grade for only two lanes and declined the optional task. Since that time, the project scope has changed to include grading for the 4-lane widening and the County has asked Dokken to proceed with the analysis as described in that Optional Task. The testing would occur along the toe of the slope between Fortuna Lane and approximately 300 feet west of Park Road. Dokken staff would work with County Regional Park staff to gain access to the park for the drilling. The price indicated above has been discounted from the \$36,000, as previously quoted, in light of other work proposed below because we are able to combine some tasks and reduce overall cost.

Yates Road Soundwall Extension and Foundation Borings (\$11,000)

The soundwall borings completed to date were completed assuming a spread footing. They are between 16 to 18 ft. deep. In addition, they do not extend west beyond Park Road. Pursuant to discussions with the County, with the recent change to pile foundations and the realignment of the wall along existing Yates Road/Ridgecrest Road (as describe in Task 2.4 D, below), additional deeper borings are needed to adequately design the walls. It is proposed to do one additional day of drilling to obtaining eight additional deeper borings to supplement the borings already obtained.

Update Yates Road Geotechnical Design Report (GDR) (\$14,000)

The February 2012 Draft Geotechnical Design Report will be updated by Dokken subconsultant Group Delta Consultants Inc. to include the analyses relating to the above items as well as responding to comments received from the constructability review of the 95% combined plans and specs. A Final GDR will be provided for inclusion in the construction bid package.

Yucca Loma Road Geotechnical Design Report (GDR) Update (\$4,000)

Currently there exists a Geotechnical Design Report to support the proposed improvements along Yucca Loma Road from the eastern terminus of the proposed Yucca Loma Bridge to Apple Valley Road. Since the time it was prepared, changes have been made to the design concept including shifting the centerline to allow for a Class I bike path and changing the drainage system design and profile from reinforced concrete pipe to a 10' x 6' box culvert. As a result, the GDR must be updated to support the new design. Group Delta will assist in performing the update and/or perform additional calculations to provide design recommendations to match the construction plans and design intent. A Supplement to the Final Geotechnical Design Report will be provided, suitable for inclusion with the Final GDR in the construction bid package.



Task Total:

Task 2.3 C- Yucca Loma Road 65% Plans and Estimate:

\$24,800

Project Management (\$8,400)

As the Bridge/Yates Road project moves to construction in the beginning of 2013, the design focus will return to the Yucca Loma Road Widening phase of the project. Budget for project management of this next project is needed. It was originally part of Task 0.1, but that budget has been expended more quickly than planned on current extended project management tasks related to the State parkland conversion process and combining the Yucca Loma and Yates contract documents into one set.

The budget requested for oversight of the Yucca Loma Road phase is proposed in this Task 2.3, and the following 90% and 100% PS&E tasks, instead of Task 0.1 so that it will be separately billed to the Town rather than as a multi-agency coordination cost that is shared with the County.

Modifications to Storm Drain System (\$16,400)

As design of the Yucca Loma Road Storm Drain System has progressed, the initial drainage design included an 8' reinforced concrete pipe and was changed to a 10' x 6' box culvert at the direction of the Town per recommendations from the SBC Flood Control District. This change resulted in modifications to utility relocations and the overall profile of the system and additional budget is requested for this design work.

Task 2.4 C- Yucca Loma Road 90% Plans, Specifications, and Estimate:

\$21,700

Project Management (\$18,700)

As described above, this item is for project management activities related to the Yucca Loma Road project.

Geotechnical Constructability Review (\$3,000)

Additionally, a geotechnical constructability review of the 90% PS&E package as it relates to the soundwall foundations and trenching of the large proposed drainage facility is also included in this task. This review will support preparation of the contract documents prior to bidding.

Task 2.4 D- Yates Road 90% Plans, Specifications, and Estimate:

\$24,000

Soundwall Footing Redesign (\$9,500)

In early discussions with the County, it was determined the new soundwall should be designed conservatively as a retaining wall. This was in response to a concern that some property owners had filled against the existing wall and there could be a transfer of load to the new wall. As part of an internal constructability and value engineering review, including site visits to verify back yard conditions at each lot, Dokken staff was able to determine, in conjunction with County staff, that the retaining concept was not necessary and that the costly spread footings associated with retaining could be replaced with CIDH pile foundations (in excess of \$500,000 in construction savings). This does, however, require some additional wall design and changes in the plan sheets and specifications.

Soundwall Extension (\$6,000)

In addition, the original soundwall design scope from 2009 assumed the Green Tree Extension project would follow shortly after the Yates Road project. It was also assumed the Green Tree project would pick up the wall and extend it along the roadway at the point the alignment pulls away from the existing Yates Road/Ridgecrest Road. Constructing the full length of soundwall along the new roadway alignment



Task Total:

would have created a conflict between the new wall and the existing roadway, essentially cutting off Ridgecrest Road. Given the delay now expected for delivery of the Green Tree project, it was determined the wall needed to be extended along the existing alignment of Ridgecrest to a point of logical termini. Cross section and sound sight drawings were prepared to verify the wall could be extended along the existing roadway and tie into the existing wall north of Chinquapin and provide the same sound attenuation. The extended design must now also be added to the plan set. Budget requested for this item is for the analysis completed and the extra plan sheets added to the set.

Cross Section Redesign (\$8,500)

Lastly, the Yates Road plans are also being revised to accommodate changes in the cross section that was initially set over a year ago. The 65% plan set was developed using the originally approved cross section that consists of 2-lane improvements from Fortuna Lane to Park Road intersections. The County is choosing to move forward with a 4-lane option from Fortuna to just past the Park Road intersection. In addition to modifying the cross section sheets, modifications are needed to layout sheets, utility sheets, drainage design sheets, staging sheets, and pavement delineation sheets.

Task 2.4 F – Combined Yucca Loma/Yates 95% Plans, Specifications, and Estimate:

\$98,100

Dokken's current scope called for providing PS&E for the Yucca Loma Bridge and Yates Road as separate construction packages. The Town and County have now directed Dokken Engineering to combine the Yates Road portion of this project with the Yucca Loma Bridge construction document set. The PS&E for the bridge project had already progressed to the 95% level, and the Yates Road project to the 65% level. Plan sets had already been layout out and much of the detailing completed. The merging of the plans, paired with Town and County requested changes, have required an additional 33 sheets to be added to the plan set over that which was originally estimated for each plan set added together. The new combined plan set will consist of 217 sheets with varying level of effort required to reformat or modify as needed for plan set consistency. For example, an additional seven utility sheets were added as a result of formatting all utility sheets to the same scale and covering the necessary information for all utility work from Park Road to Kasanka Trail. Construction staging concepts and corresponding plan sheets for the area west of the bridge must be totally redesigned. Grading and drainage sheets must be modified to remove some of the temporary measures that were planned to protect the site until the Yates Road project advanced. The quantities must be reviewed, adjusted and documented to reflect the combined work and another 95% estimate must be produced. The estimate must bifurcate Town and County items to facilitate preparing cost sharing information. Staging and utility coordination provisions in the specification must also be changed. Although overall the combining of the work will reduce cost (a 5% reduction in construction costs through economy of scale would be over \$2,000,000) additional design effort is needed to prepare a combined set of construction documents. An estimate of hours to complete this work is shown in Attachment A and corresponds to a requested budget of \$92,100.

Budget has also been included in the task to respond to comments from the constructability review planned by the Town to be performed by Parsons. This budget is not for the purpose of making plan corrections, but rather to allow flexibility in making changes of a nature that go beyond standard design that might, through alternative design or specifications restrictions/clarifications, save money in construction bids or reduce risk. Budget requested for this task is \$6,000.



Task Total:

Task 2.5 C- Yucca Loma Road 100% Plans, Specifications, and Estimate: \$12,500

As described above, this item is for project management activities related to the Yucca Loma Road project.

Task 2.6 Right of Way Exhibits, Plats and Legals: \$8,000

The original contract scope for right of way did include exhibits, plats, and legal descriptions for the State owned parcels. However, during the course of the 6(f) Parkland Conversion process, revisions and additional exhibits, plats, and legals have been requested by the Town and County. Deeds, plats, and legals for the State parcels located at or near the western approach to the Yucca Loma Bridge were modified at the request of the Town and County to accommodate a change in area, ownership, and type of take (easement to fee take) as a result of the Parkland Conversion. Budget is requested to cover the additional document work related to State owned parcels and the parkland conversion process. This task also includes additional budget for anticipated plat and legal changes due to NPS comments from the parkland conversion proposal.

Task 2.7 Other Agency Approvals: \$9,700

Sub Task 2.7.07 SBCFCD Permitting – Additional Drainage Analysis

In May of 2011, San Bernardino County Flood Control District (FCD) issued conditional permits for the bridge and outfall construction. Since that time, the design of the outfall and its location in the Mojave River channel has changed at the request of the Town to address less restrictive right of way conditions. As a result, Dokken has performed additional coordination with the Town, County, and County FCD on revising the permit conditions based on the updated design work. Budget is requested to cover the efforts associated with addressing the FCD permit conditions regarding the proposed system change from a 10' x 6' arch culvert to a 10' x 6' box culvert. It is also anticipated that Dokken Engineering will meet with FCD in person twice.

Task 3.0 Right of Way Acquisition Services \$10,100

Sub Task 3.2 Acquisition/Negotiation

The right of way acquisition and negotiation efforts related to the private parcels for the Yucca Loma Bridge are now complete with the exception of closing escrow with Iverson. During the course of the Town's acquisition of portions of the Iverson property, additional coordination and efforts beyond the original scope were requested of Dokken by the Town, which exhausted task budget. In addition, his two lenders are now requiring excessive documentation in order to process reconveyance deeds. Dokken is requesting budget from the Town to cover the cost overrun to date and to provide some budget for continued support through close of escrow for Iverson as well as retain budget to obtain permits to enter for properties receiving a soundwall on Yucca Loma Road.

Phase III: Bid and Construction Support

Amendment 6 to Dokken's contract included roadway and structural construction support related to the Yucca Loma Bridge, Yucca Loma Road, and the Restoration Area. At the County's request, construction support related to Yates Road was not included at that time. It was the County's intention they would contract directly with Dokken for construction support services for a separately bid Yates Road project, administered by the County. With the implementation of a combined bid package for the Bridge and Yates Road, the County has now requested that construction support services for Yates Road be included in Dokken's scope of services. Below is a description of the work contained within each subtask related to construction support



Task Total:

with environmental compliance for the work on Yates Road. In addition, geotechnical construction support (not previously included) for the Yucca Loma Bridge and Yates Road is described in tasks below.

\$115,600

Task 5.2 Bidding and Construction Support:

Sub Task 5.2 B Yucca Loma Bridge-Geotechnical Support (\$48,000)

Geotechnical Construction Support related to the construction of the bridge piles was not originally included in Amendment 6 because it was thought these services would be provided by the Construction Management (CM) firm. Now that the CM firm has been identified and the various sub-consultants supporting both Dokken and Parson identified, it was determined the geotechnical related construction support should flow from the designer's contract since the geotechnical engineer was a key member of the design team. Items of work to be performed by Dokken's subconsultant, Group Delta, included in this task include:

- Geotechnical Engineer will review of contractor submittals regarding CIDH pile construction sequence, methods, materials, and construction equipment.
- Geotechnical Engineer will attend preconstruction and construction meetings regarding the pile construction activities.
- Provide on-site pile construction observations to verify the excavated soils are consistent with the design, document contractor operations and activities, and assist the CM in resolving issues and potential for claims.
- Review of the pile load test setup and pile load testing results. Recommendations for pile length revisions will be made after review of the pile load test results.
- Review of the pile integrity testing (gamma-gamma and cross-hole sonic logging) results and review of any required remedial measures, if required.
- Review of the shoring design and input soil parameters for the 6' x 10' box culvert trench excavation.
- Inspection of the 10' x 6' box culvert trench bottom to verify the soils present match those used in the design and provide recommendations where differences occur.

Geotechnical Construction Support services will be performed in close cooperation with the Town and the Parsons Construction Management Team on an "as-needed" basis. The budget requested is based on our estimate of what might typically be needed for a project of this size and scope.

Sub Task 5.2 D Yates Road Bidding and Construction Support (\$67,600)

The level of effort estimated for the Yates Road portion of the project, for design related construction support (roadway, structures, geotechnical) is based on planned number of working days for the work on Yates Road and the level of complexity for the project. Construction support services will be provided in close cooperation with the CM on a time and materials, as-needed basis. Services are anticipated to include:

- Working through the Town/County/CM, respond to bidder's questions and prepare draft addendums for the work related to Yates Road.
- Assist County and Town in reviewing bids.
- Attend pre-construction meeting.



Task Total:

- Provide construction support as needed for roadway and soundwall work related to Yates Road. This effort includes site visits, responding to Request for Information, reviewing shop drawings as requested by the RE, coordination with on-site biologist, and reviewing change orders that affect the design.
- Attend bi-weekly construction meetings as needed for the work on Yates Road.

In addition, Geotechnical Construction Support Services for Yates Road to be performed by Group Delta include the following tasks:

- Attend meetings regarding the pile and fill placement construction activities.
- Review of contractor submittals regarding CIDH pile construction, methods, materials, and construction equipment.
- Provide construction observation services during the sound wall CIDH pile excavations to verify the excavated soils are consistent with the design assumptions.
- Provide construction observations services for the slope and toe key excavations.

Task 5.3 Preconstruction Biology Surveys and Training:

\$3,200

Prior to construction of both Yucca Loma Bridge and Yates Road, the following biological related services will be provided as it pertains to the Yates Road portion of the project adjacent to the County Park and Mojave River:

- Conduct preconstruction survey for burrowing owl, desert tortoise, southwestern willow flycatcher, and other nesting birds as required by the California Department of Fish and Game. Summarize results of the surveys in a report and provide to the appropriate agencies.
- Facilitate a worker awareness training session for the contractor and staff, educating them on species and sensitive natural resources present on the project site prior to commencement of work, as required by the various project permits.

\$0

Task 5.4 Stake ESA:

It is anticipated that various Environmentally Sensitive Areas will need to be staked and fenced as part of contractor's scope of work for the project. This will include, but is not limited to, wetlands, culturally sensitive areas, and any vegetation/habitat that is to be protected during construction. Staking will mostly occur adjacent to existing Yates Road where widening is to occur. This item has been incorporated into the project bid schedule for construction from Park Road to Kasanka Trail. Environmental oversight for ESA staking will be provided by Dokken under tasks 5.1.02 and 5.1.04.

Task 5.5 Biological Construction Monitor:

\$9,400

For Yates Road, the following biological monitoring services will be provided:

- Provide a biologist to monitor all work performed within the nesting season as needed. Reporting of such monitoring will be provided to the various permitting agencies.
- The biologist will notify the Resident Engineer of biological resources found that would affect contractor operations and advise of necessary buffer zones.



Task Total:

\$22,100

Task 6.0 State Land Conversion and Revalidation of the Environmental Document:

Sub Task 6.1 State Parcel Acquisition Coordination (\$5,200)

The 6(f) Parkland Conversion Process has exceeded the timeframe originally anticipated due to additional coordination and review with the various State Agencies and National Park Service. Budget is requested to continue the current level of effort related to conversion proposal approval and acquisition coordination until the currently anticipated completion estimated at November, 2012.

At the request of the Town and County, Dokken prepared a Scope of Appraisals to provide supplemental information to the County Appraiser, including providing additional coordination as needed, pertaining to the 6(f) parkland conversion and State land acquisitions. This work was not originally included in Dokken's scope of services for this task. Budget is requested and included above to cover this additional work.

Sub Task 6.2 Conversion Mapping & Preliminary Engineering (\$16,900)

At the request of the Town and County, Dokken has prepared additional exhibits related to the proposed replacement land for the 6(f) conversion as options related to the conversion proposal submitted to OGALS and NPS. In addition, Dokken prepared exhibits for County discussions with the property owner of the parcels intended to be purchased for parkland replacement. Dokken is requesting additional budget to carry the current level of effort related to mapping and preliminary engineering to anticipated completion of the conversion process.

Summary

A detailed estimated cost breakdown of all services associated with this amendment is provided in Attachment A: Amendment #8 –Task and Cost Proposal Summary. These services would be provided on a time and material, not-to-exceed, basis in accordance with the current Agreement.

The current and proposed contract amounts are summarized as follows:

Original Contract Amount	\$2,850,982
Amendment 1: Green Tree Extension ED	\$283,000
Amendment 2: Supplemental Traffic Analysis	\$19,700
Amendment 3, Part I: Apple Valley Road to Park Road (Two Bid Packages; added Right-of-Way Services)	\$336,900
Amendment 4: Clearing and Tree Removal PS&E and Construction Support	\$97,815
Amendment 5: Additional Scope and Extended Services – Yucca Loma Bridge	\$256,078
Amendment 6: Additional Right of Way Services and Construction Support for Town Facilities	\$847,400
Amendment 7: State Land Conversion and Revalidation of the ED	\$149,650
TIGER II Grant Application Assistance	\$6,475
Total Current Contract with Amendments 1, 2, 3-P1, 4, 5, 6, 7, and TIGER II Grant Application Assistance	\$4,848,000
<u>Amendment 8 Request:</u> Additional Design, Right of Way Services, and Construction Support for Town and County Facilities	\$422,400
Total Proposed Contract Amount	\$5,270,400

We continue to appreciate the opportunity to provide continued services for this major transportation project and look forward to hearing from you regarding this work. If you have any questions or need additional information, please contact me at (916) 858-0642.

Sincerely,

DOKKEN ENGINEERING



Elizabeth B. Diamond, PE
Director of Engineering/Project Manager

Attachments: • Attachment A: Task and Cost Proposal Summary
 • Attachment B: Contract Cost Summary

cc: Carrie Schindler, Transportation Planning Chief, San Bernardino County

1688-052/EBD/rm

TOWN OF APPLE VALLEY
Yucca Loma Road/Yucca Res/Green Tree Boulevard Transportation Improvement Project
ATTACHMENT B - COST SUMMARY
June 18, 2012

Task #	Task	Original Contract Amount	Expanded Through	Balance as of	2012	Amendment #	Contract Amount with Amendment #	Revised Total Contract Amount	Town Cost Share of Amendment #	% Value of Construction
01	PROJECT MANAGEMENT	403,213	69,658	18,700	518,569	3,350	518,569	3,350	0.65%	\$ 80,000,000
02	3-P1, 4, 5, 6, 7, and Tiger Grant	145,001	145,001	145,001	145,001	145,001	145,001	145,001	1.99%	\$ 80,000,000
03	Public Outreach/Coordination - Roadwork and Final Design	42,000	14,514	26,486	42,000	42,000	42,000	42,000	0.85%	\$ 80,000,000
Project Total:		\$4,498,000	\$4,142,457	\$705,543	\$5,270,400	\$217,849	\$5,270,400	\$217,849	1.99%	\$ 80,000,000
1.0	PHASE 1 - PRE-ENVIRONMENTAL	1,582,780	1,582,780	1,582,780	1,582,780	1,582,780	1,582,780	1,582,780	1.99%	\$ 80,000,000
1.1	Preparatory Engineering Tasks	600,407	600,407	600,407	600,407	600,407	600,407	600,407	1.99%	\$ 80,000,000
1.2	Environmental Compliance	982,373	982,373	982,373	982,373	982,373	982,373	982,373	1.99%	\$ 80,000,000
2.0	PHASE 2 - FINAL DESIGN & ENVIRONMENTAL	2,047,884	1,843,358	178,640	2,021,998	117,470	2,139,468	117,470	4.32%	\$ 52,200,000
2.1	Preparatory Engineering Reports	30,321	30,321	30,321	30,321	30,321	30,321	30,321	0.40%	\$ 52,200,000
2.2	Environmental Permitting	979,676	979,676	979,676	979,676	979,676	979,676	979,676	24.90%	\$ 52,200,000
2.3	90% Plans and Estimate	305,148	305,148	305,148	305,148	305,148	305,148	305,148	7.90%	\$ 52,200,000
2.4	90% Plans, Specs and Estimate	118,881	118,881	118,881	118,881	118,881	118,881	118,881	3.10%	\$ 52,200,000
2.5	Final Design/Approval	78,888	78,888	78,888	78,888	78,888	78,888	78,888	2.05%	\$ 52,200,000
2.6	ROW Right-of-Way, Right-of-Way, and Utility	1,111	1,111	1,111	1,111	1,111	1,111	1,111	0.03%	\$ 52,200,000
2.7	Other Agency Approval	47,794	47,794	47,794	47,794	47,794	47,794	47,794	1.25%	\$ 52,200,000
2.8	Final Design/Approval	7,888	7,888	7,888	7,888	7,888	7,888	7,888	0.21%	\$ 52,200,000
2.9	Value Analysis	10,888	10,888	10,888	10,888	10,888	10,888	10,888	0.28%	\$ 52,200,000
3.0	CONTRACT ADMINISTRATION SERVICES	150,000	150,000	150,000	150,000	150,000	150,000	150,000	3.95%	\$ 52,200,000
4.0	TIGER II GRANT	5,475	5,475	5,475	5,475	5,475	5,475	5,475	0.14%	\$ 52,200,000
5.0	BIDDING AND CONSTRUCTION SUPPORT	465,193	465,193	465,193	465,193	465,193	465,193	465,193	12.10%	\$ 52,200,000
5.1	Preparatory Engineering Reports	26,279	26,279	26,279	26,279	26,279	26,279	26,279	0.69%	\$ 52,200,000
5.2	Bidding and Construction Support	11,000,000	11,000,000	11,000,000	11,000,000	11,000,000	11,000,000	11,000,000	28.50%	\$ 52,200,000
5.3	Preconstruction Biology Survey, Agency Coord. & Training	5,613	5,613	5,613	5,613	5,613	5,613	5,613	0.15%	\$ 52,200,000
5.4	Biological Construction Monitoring Compliance/WWPP	1,699	1,699	1,699	1,699	1,699	1,699	1,699	0.04%	\$ 52,200,000
5.5	Biological Construction Monitoring Compliance/WWPP	148,650	148,650	148,650	148,650	148,650	148,650	148,650	3.85%	\$ 52,200,000
6.0	STATELAND CONVERSION AND EROSION CONTROL	44,800	44,800	44,800	44,800	44,800	44,800	44,800	1.17%	\$ 52,200,000
6.1	State Permit Application & Construction	24,500	24,500	24,500	24,500	24,500	24,500	24,500	0.63%	\$ 52,200,000
6.2	Construction Mapping & Preliminary Engineering	20,300	20,300	20,300	20,300	20,300	20,300	20,300	0.53%	\$ 52,200,000
6.3	Construction Mapping & Preliminary Engineering	20,300	20,300	20,300	20,300	20,300	20,300	20,300	0.53%	\$ 52,200,000
6.4	NEPA/CEQA Finalization	2,000	2,000	2,000	2,000	2,000	2,000	2,000	0.05%	\$ 52,200,000
6.5	Technical Studies	20,700	20,700	20,700	20,700	20,700	20,700	20,700	0.54%	\$ 52,200,000

*These are additional costs not included in any current agreements between the Town and County. The cost share for Project Management and PM&E is shared 60/40 between Town and County, with both agencies, with the exception of the unshared project. Work related to Task 3 is at the sole responsibility of the Town for private/public improvements for the bridge. Work related to Tasks 2, 1, and 5 are the sole responsibility of the County for "Year Road". The cost share for Task 5 is based on the total area to be related to each jurisdiction as it relates to the State owned parcels, with 40% vesting in the County and 60% vesting in the Town.